

UNIVERSITY OF CALIFORNIA, SAN DIEGO SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

CalCOFI Cruise 1008
30 July – 17 August 2010

CC Reference 10-07
9 August 2011

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

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

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CONTENTS

Introduction	3
Literature Cited	8
CalCOFI Cruise 1008	
List of Figures	9
Personnel	20
Tabulated Rosette Cast Data	21
Tabulated Primary Productivity Data	52
Tabulated Macrozooplankton Data	56

INTRODUCTION

The data presented in this report were collected during cruise 1008* 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 P150. 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 up-cast. 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 25.6 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).

Avifauna Observations (Farallon Institute of Advanced Ecosystem Research)

Sea birds were counted within a 300-meter wide strip off to one side of the ship. Counts were made while underway between stations during periods of daylight. These counts were summed over 20 nautical mile (nm)

intervals, or the distance between consecutive stations, whichever was less. Included at the end of this report are individual maps of the most numerous bird species (individuals/nm).

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

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

Primary Productivity Data

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

Macrozooplankton Data

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

FOOTNOTES

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

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

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

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

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FIGURES

Cruise 1008

1. CalCOFI Cruise 1008 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.

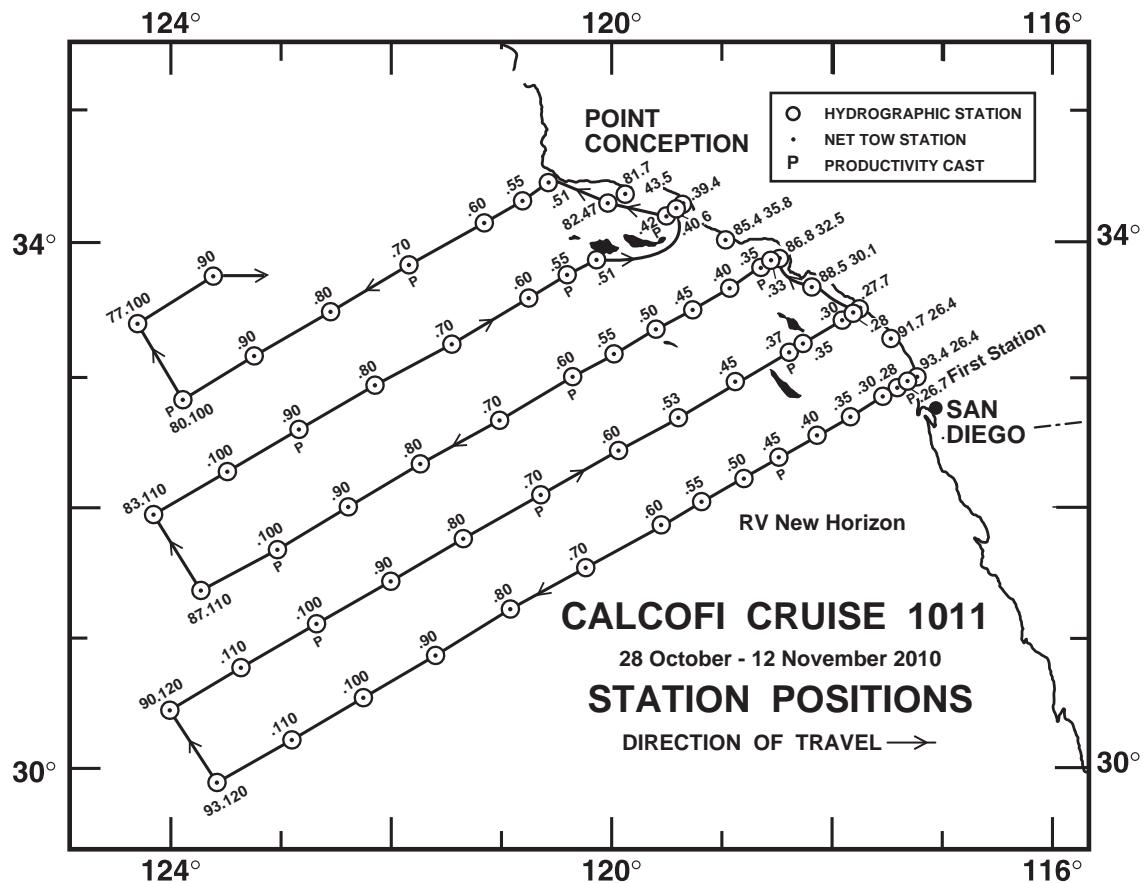


FIGURE 1

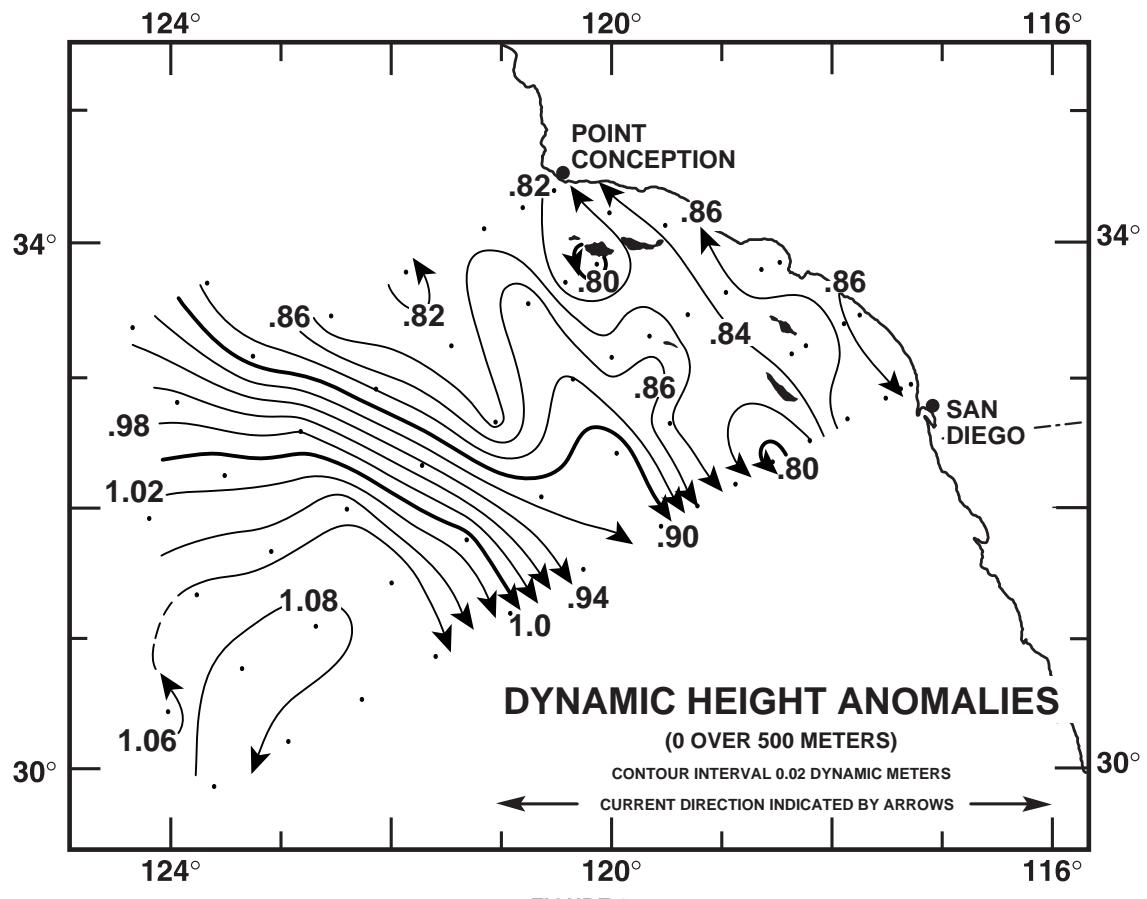


FIGURE 2

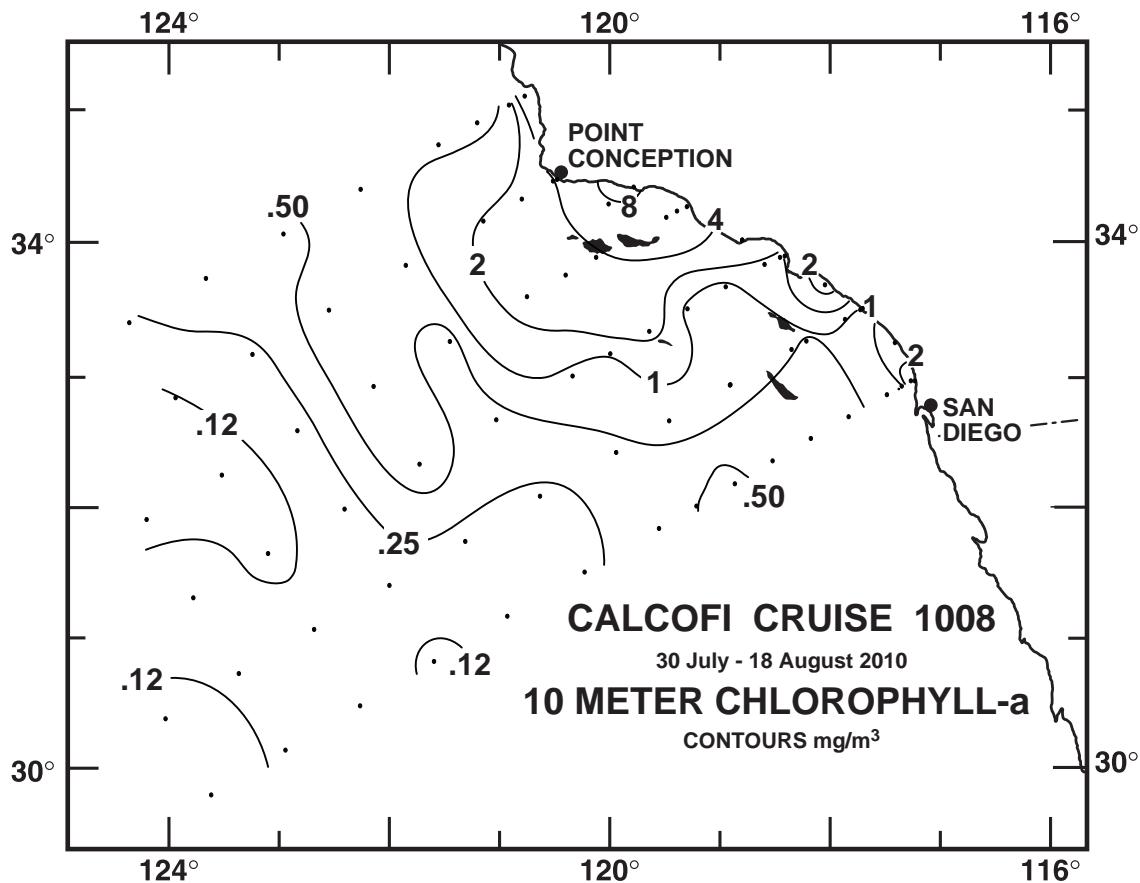


FIGURE 3A

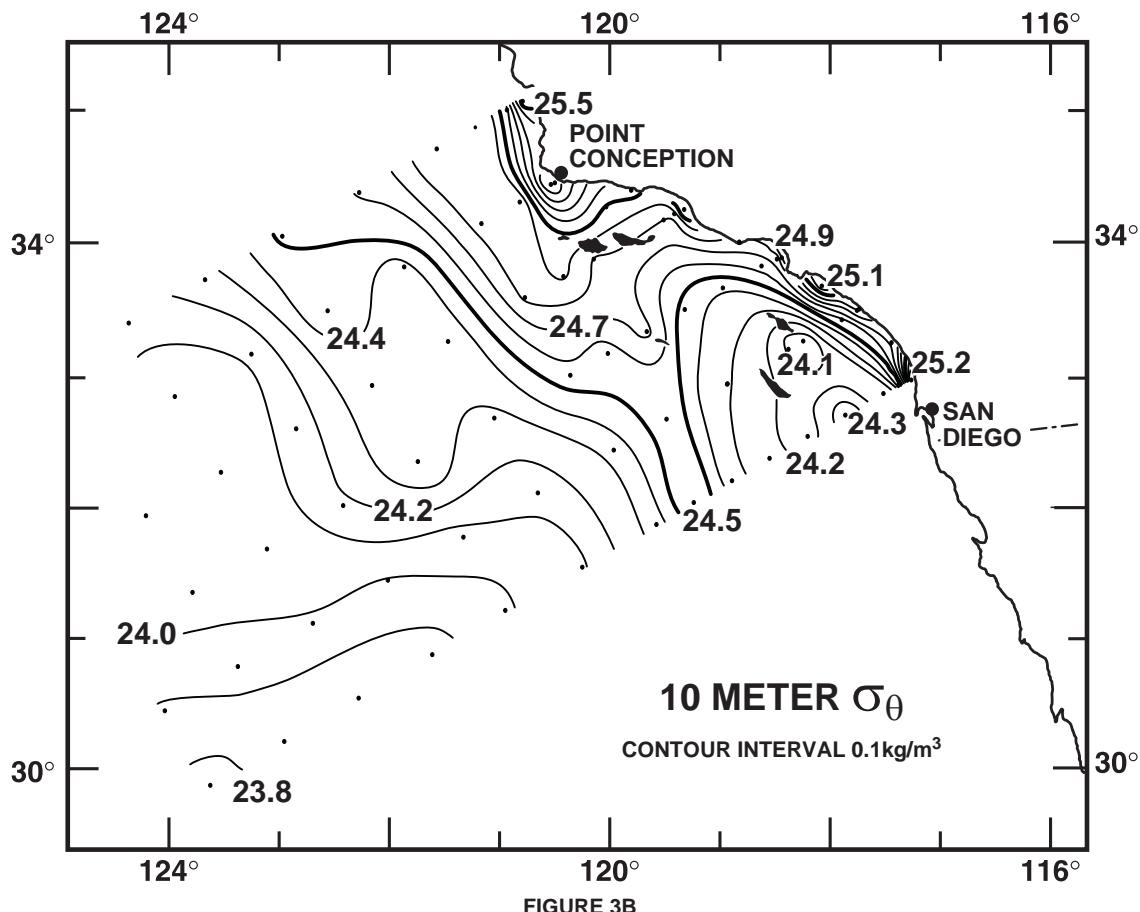


FIGURE 3B

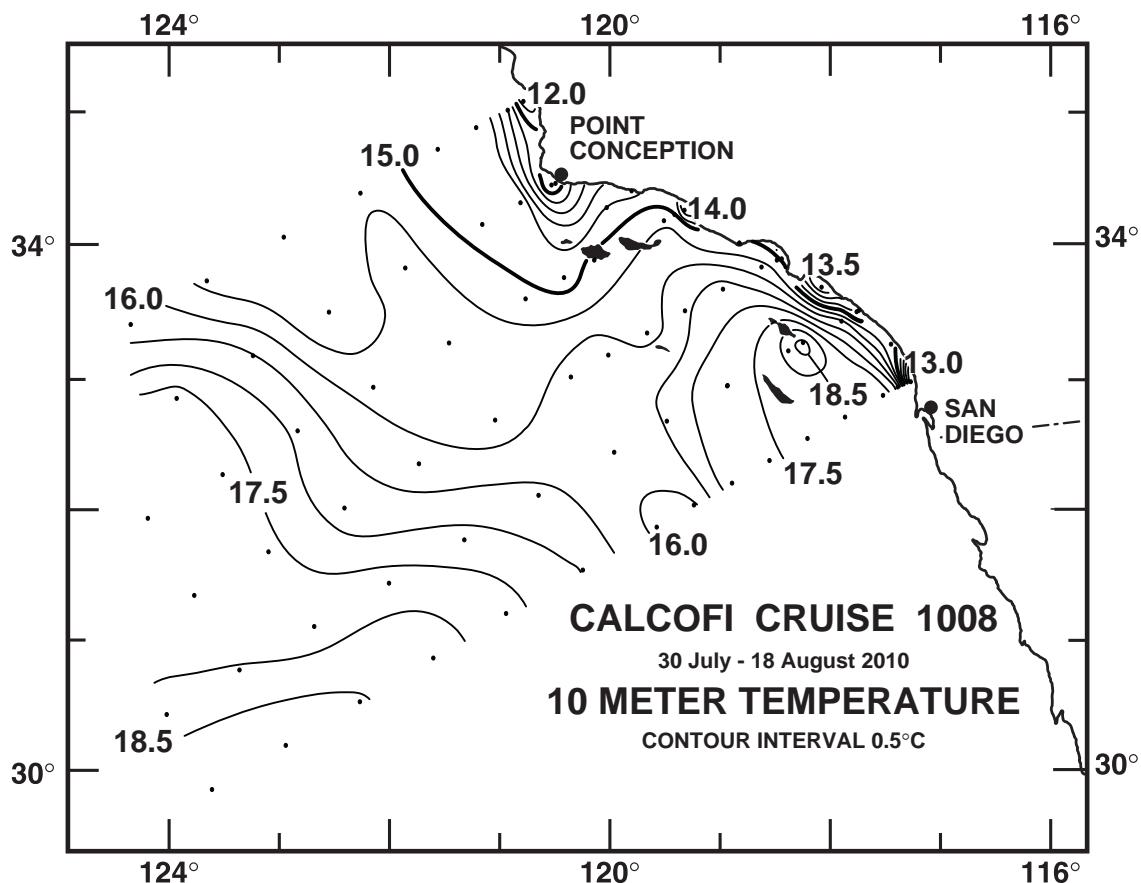


FIGURE 3C

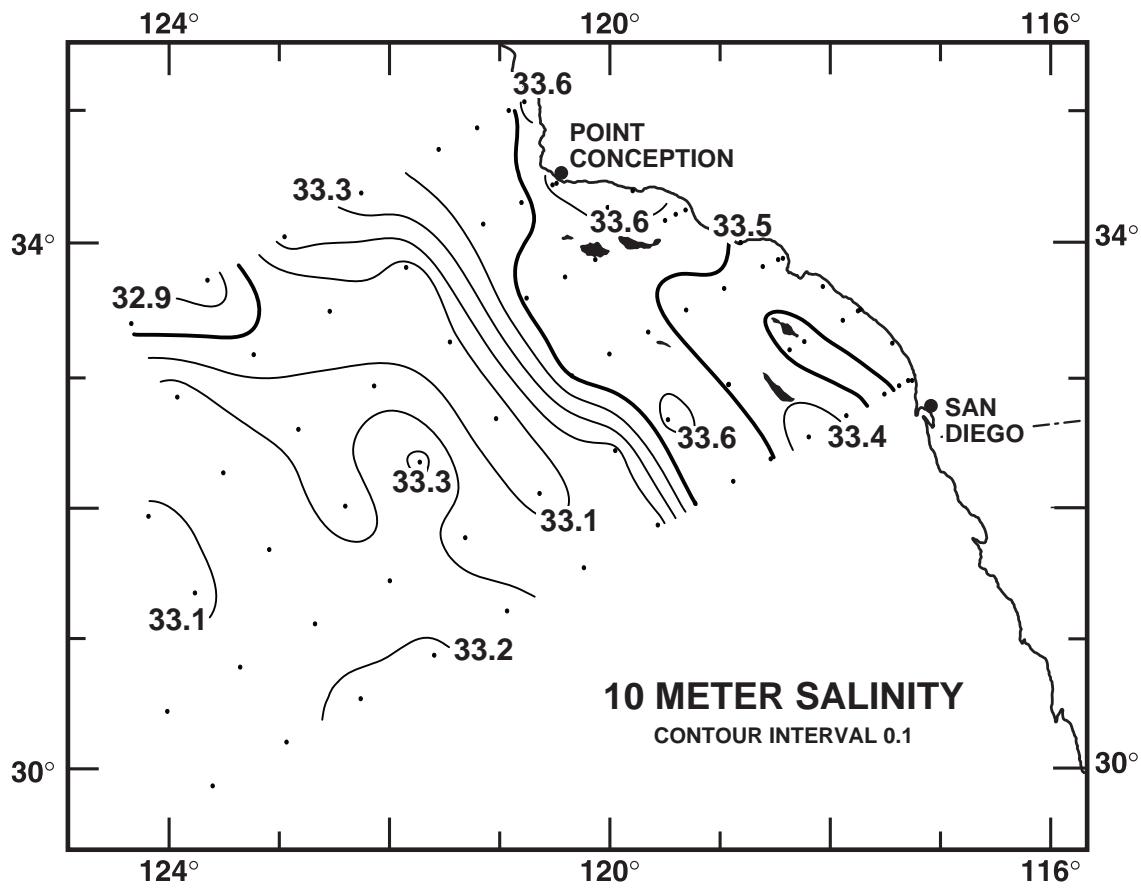


FIGURE 3D

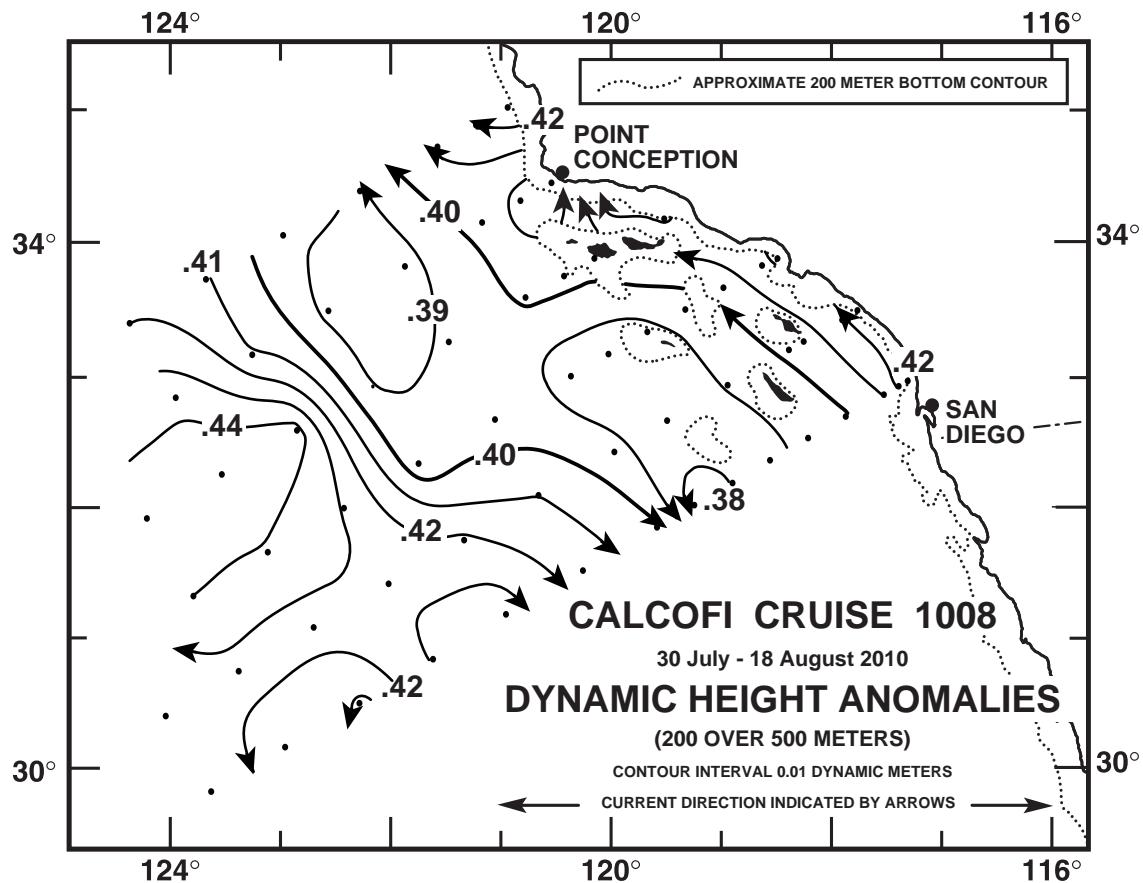


FIGURE 4A

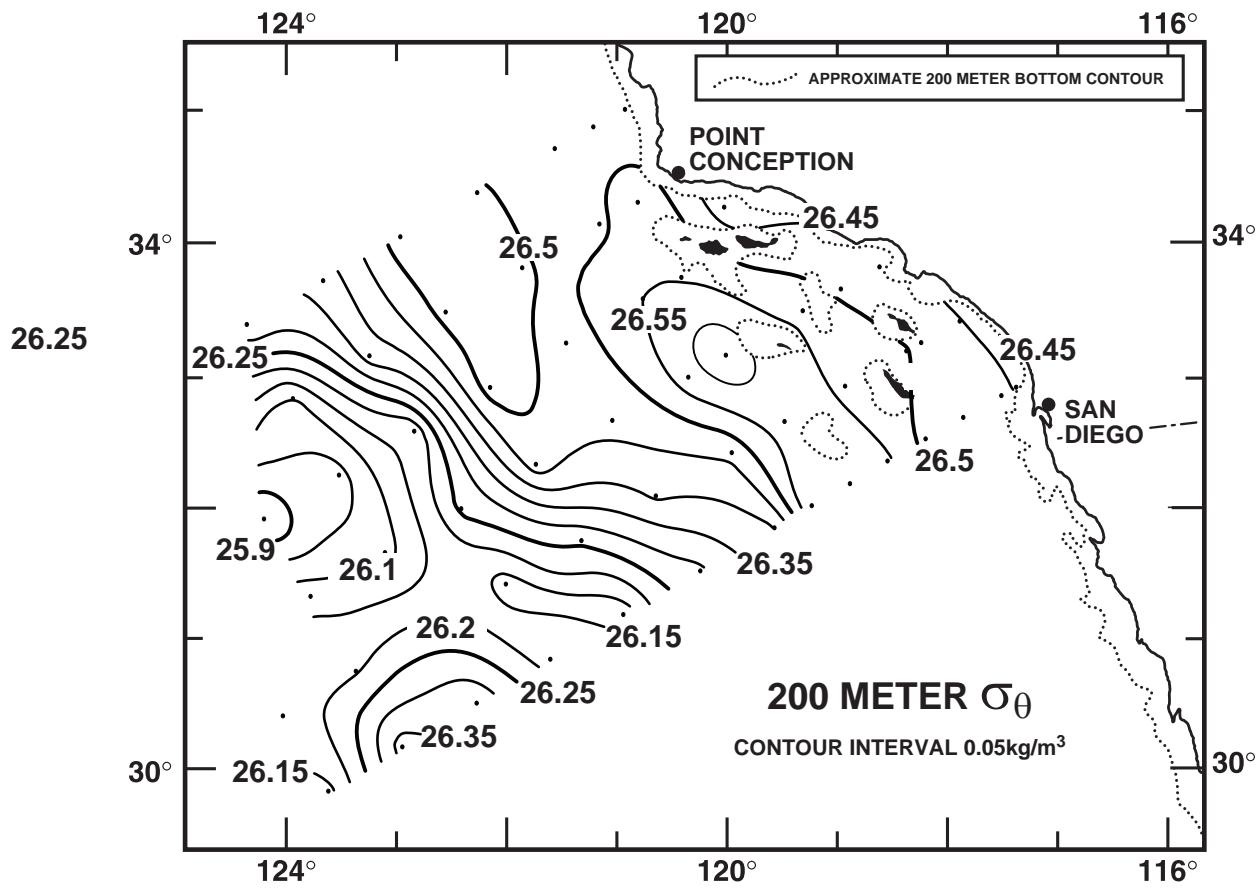


FIGURE 4B

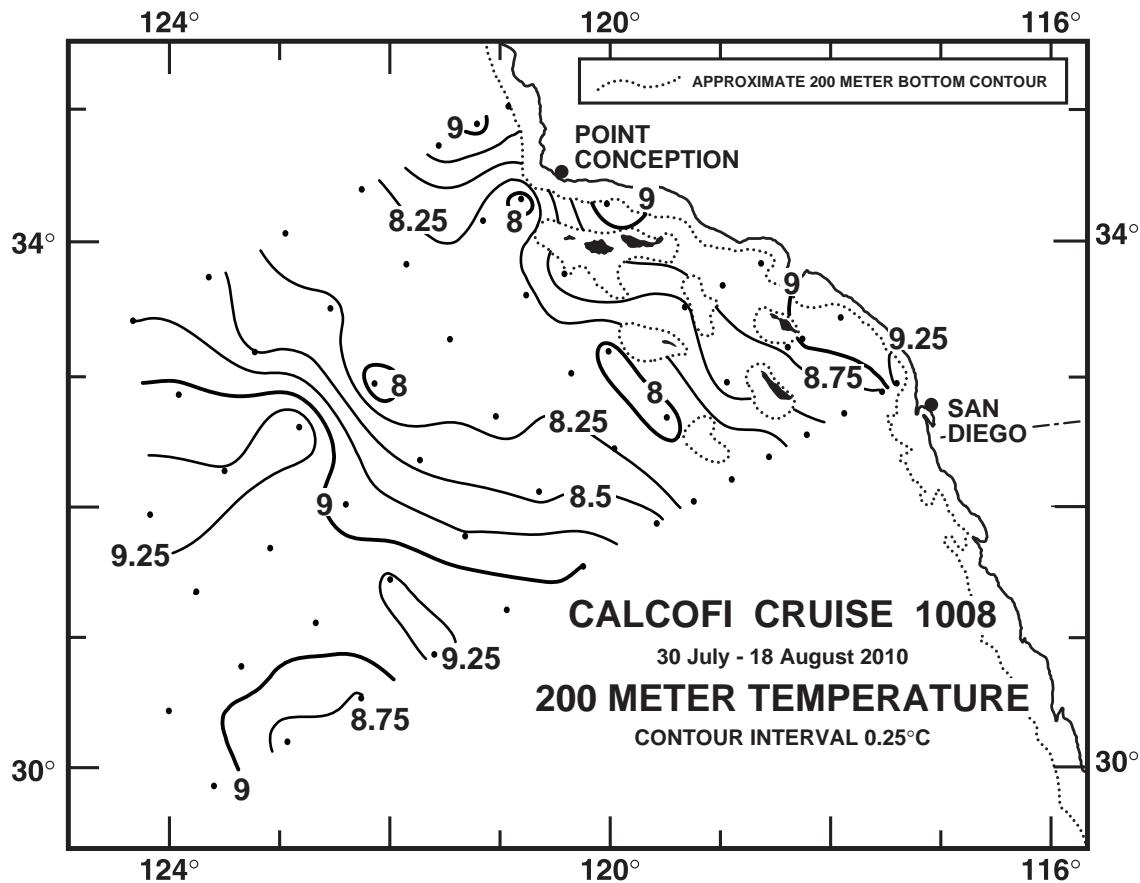


FIGURE 4C

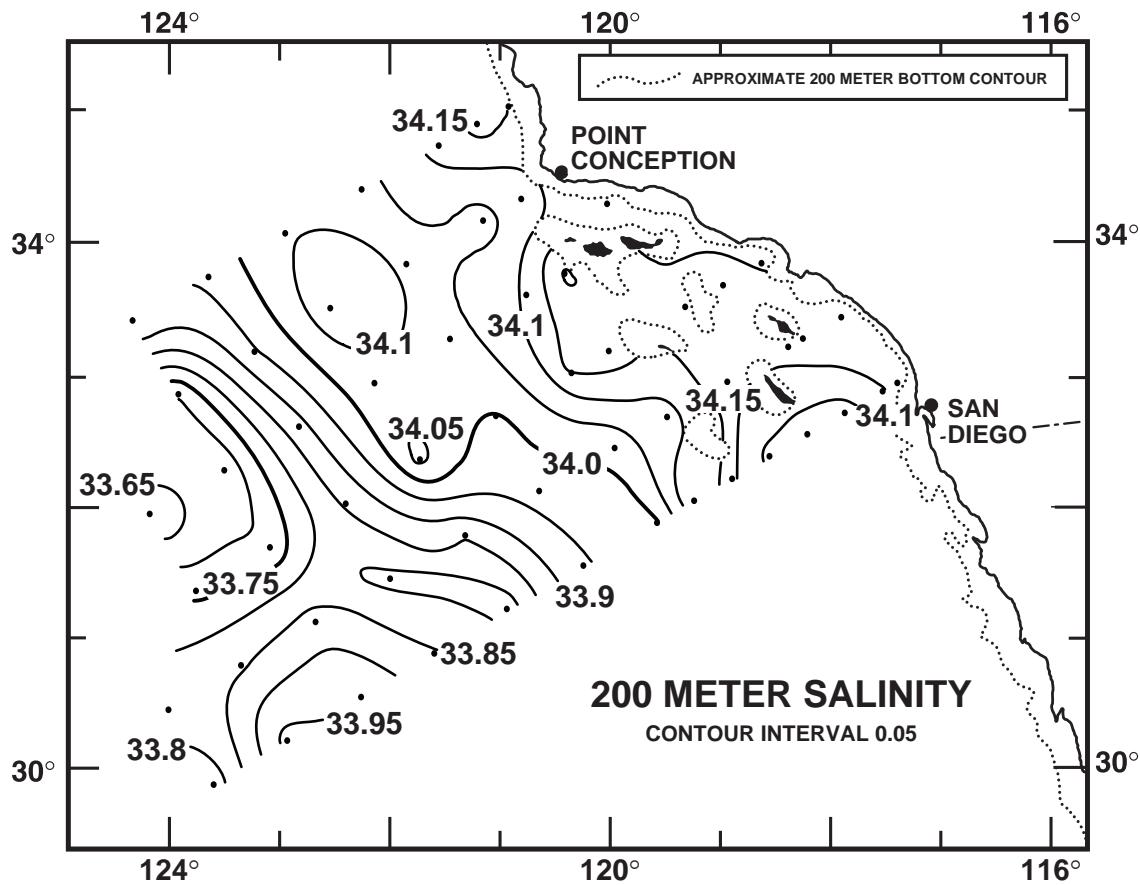


FIGURE 4D

CALCOFI CRUISE 1008

30 July - 18 August 2010

POTENTIAL DENSITY (σ_0) ALONG CALCOFI LINE 90

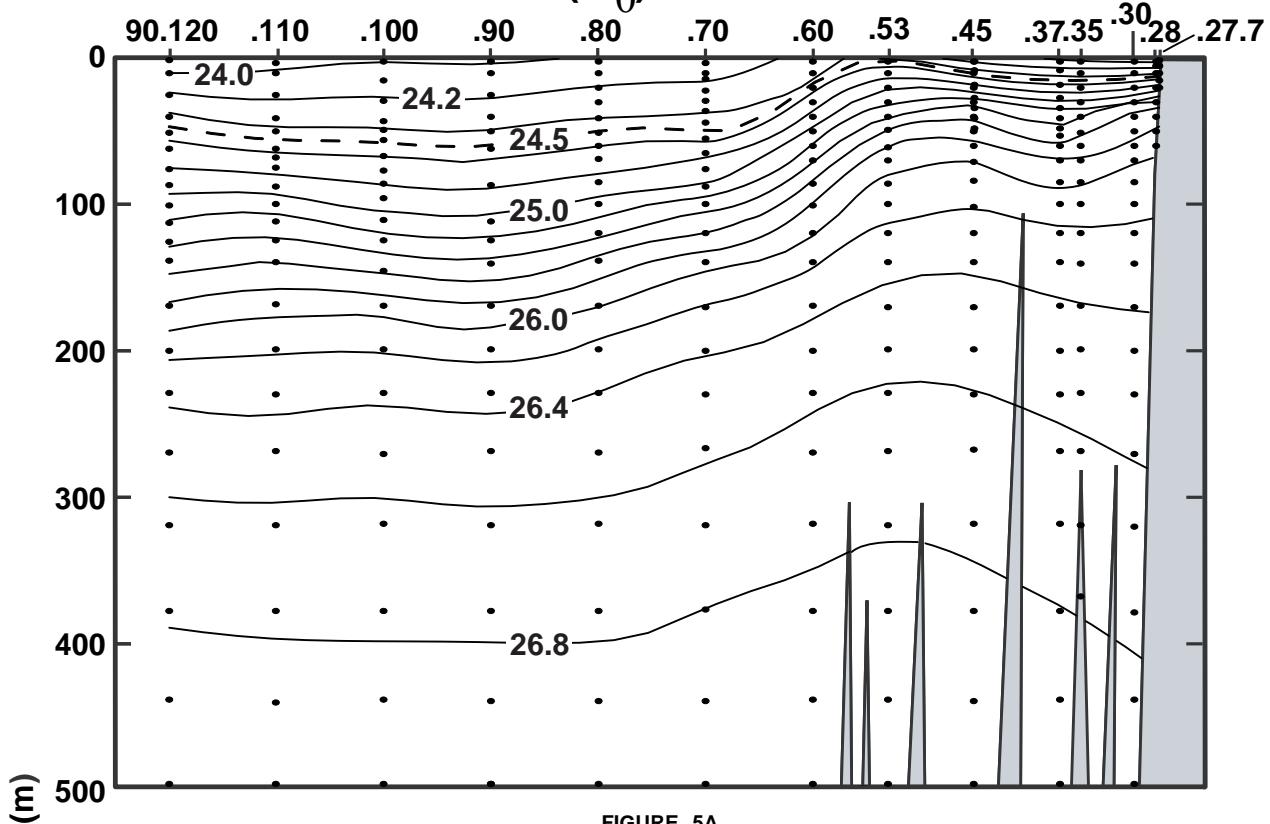


FIGURE 5A

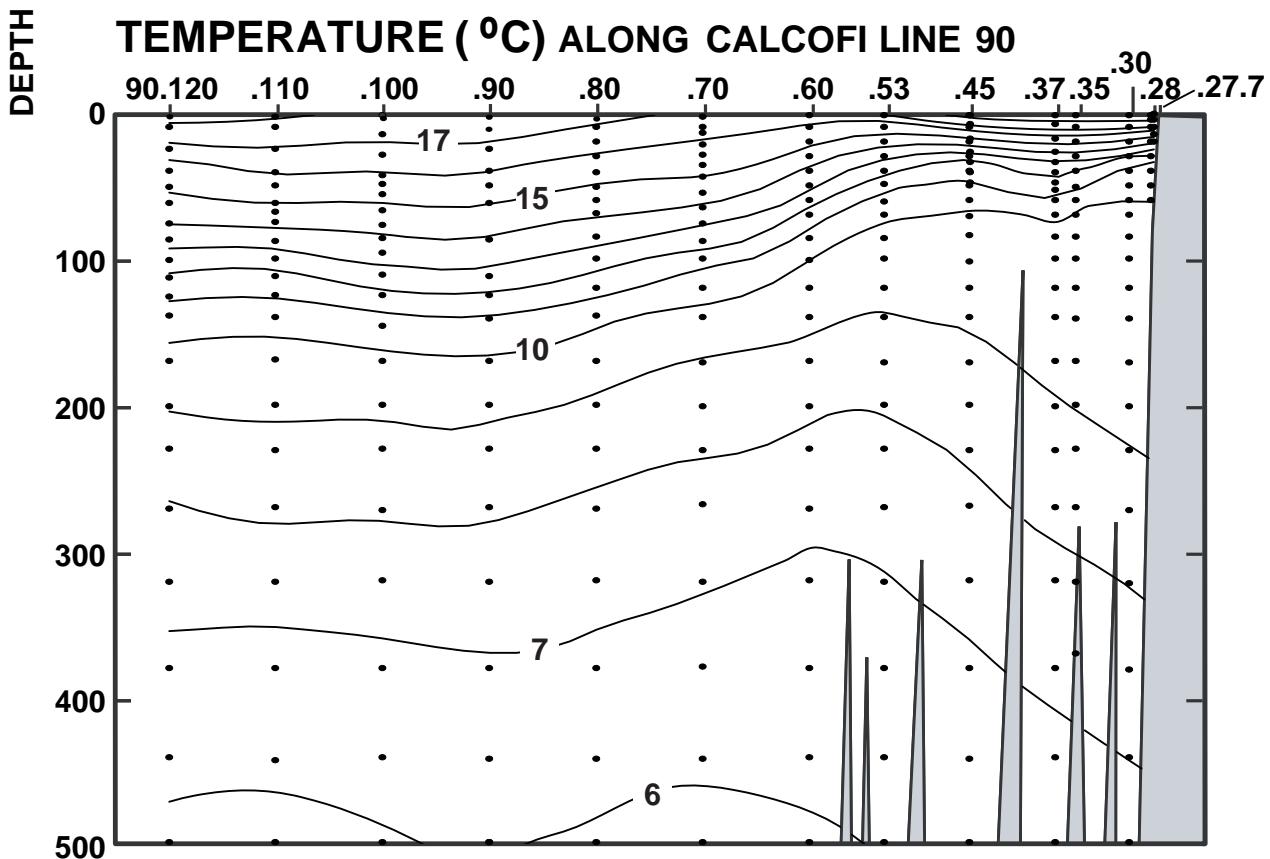
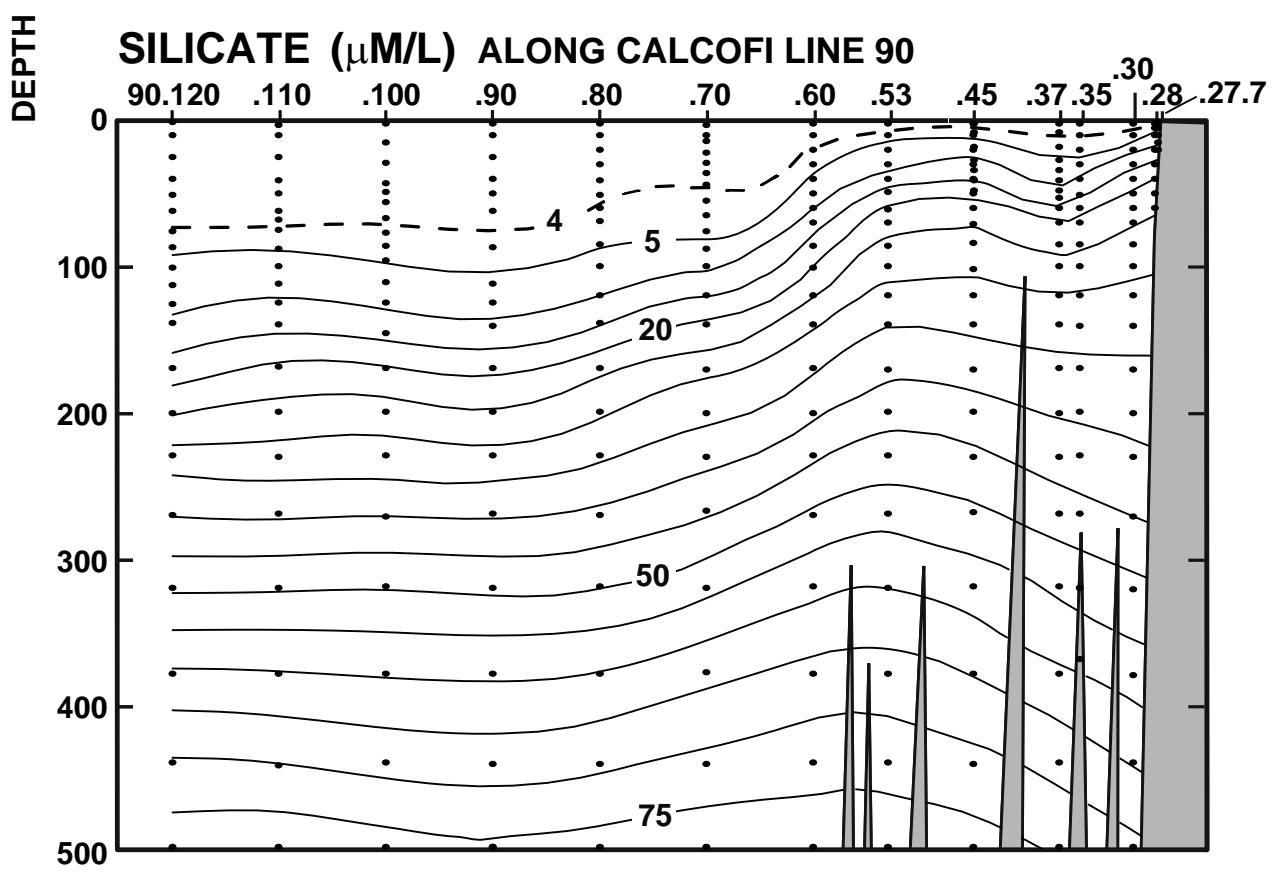
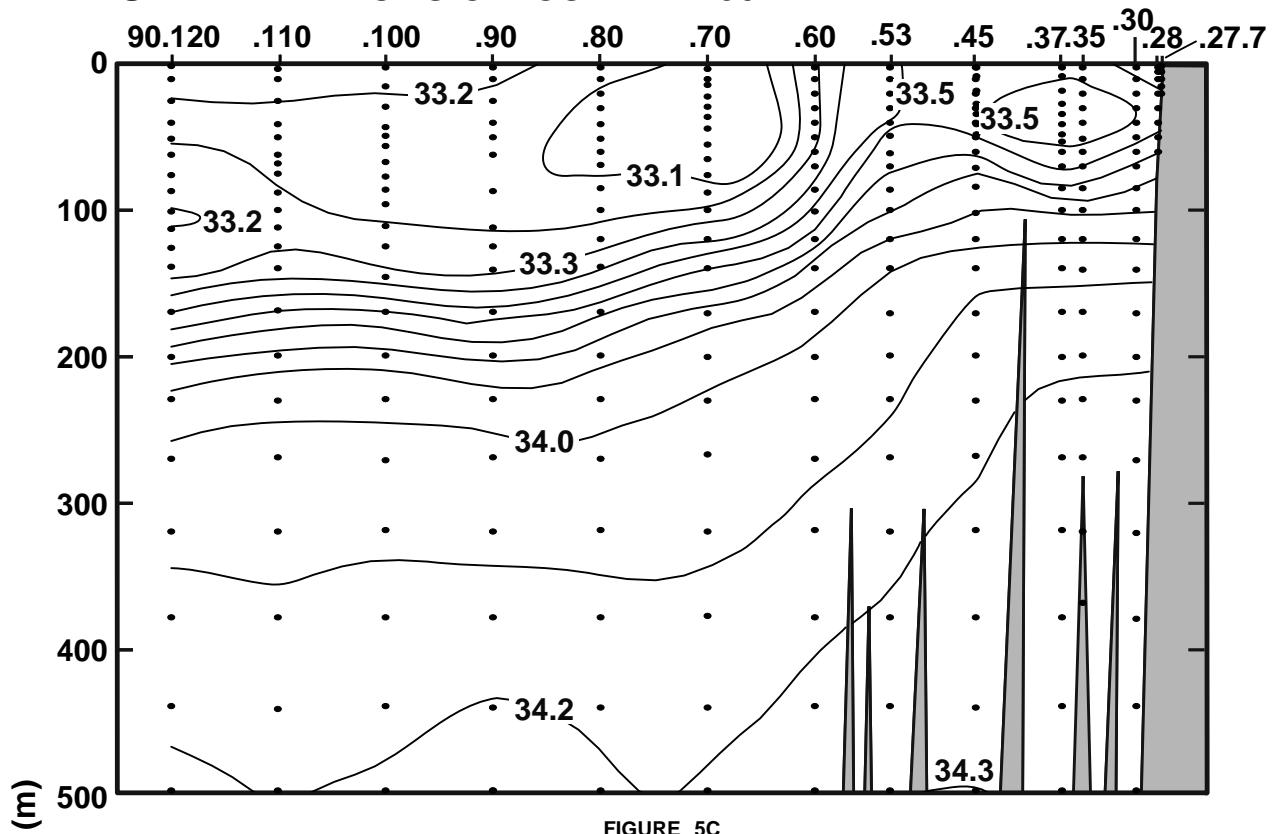


FIGURE 5B

CALCOFI CRUISE 1008

30 July - 18 August 2010

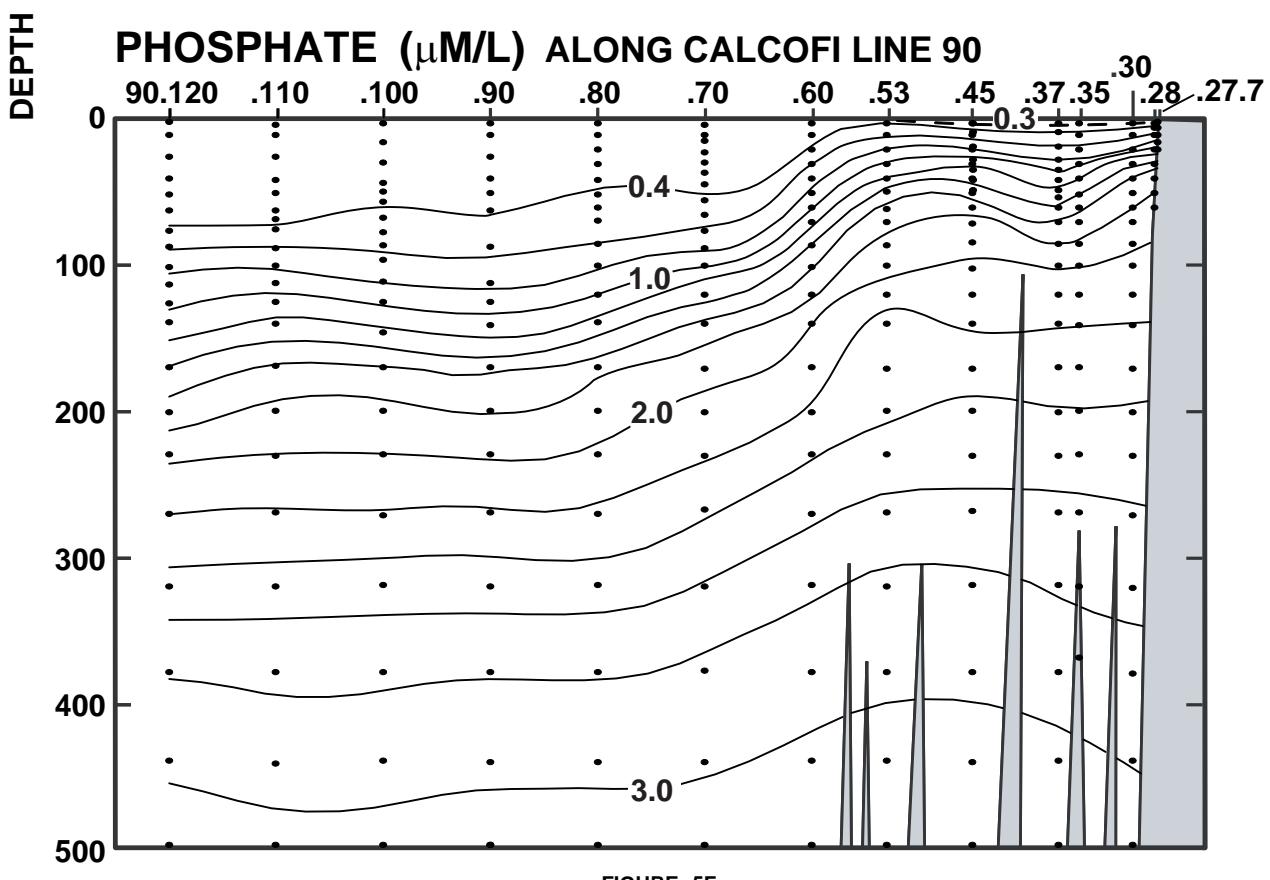
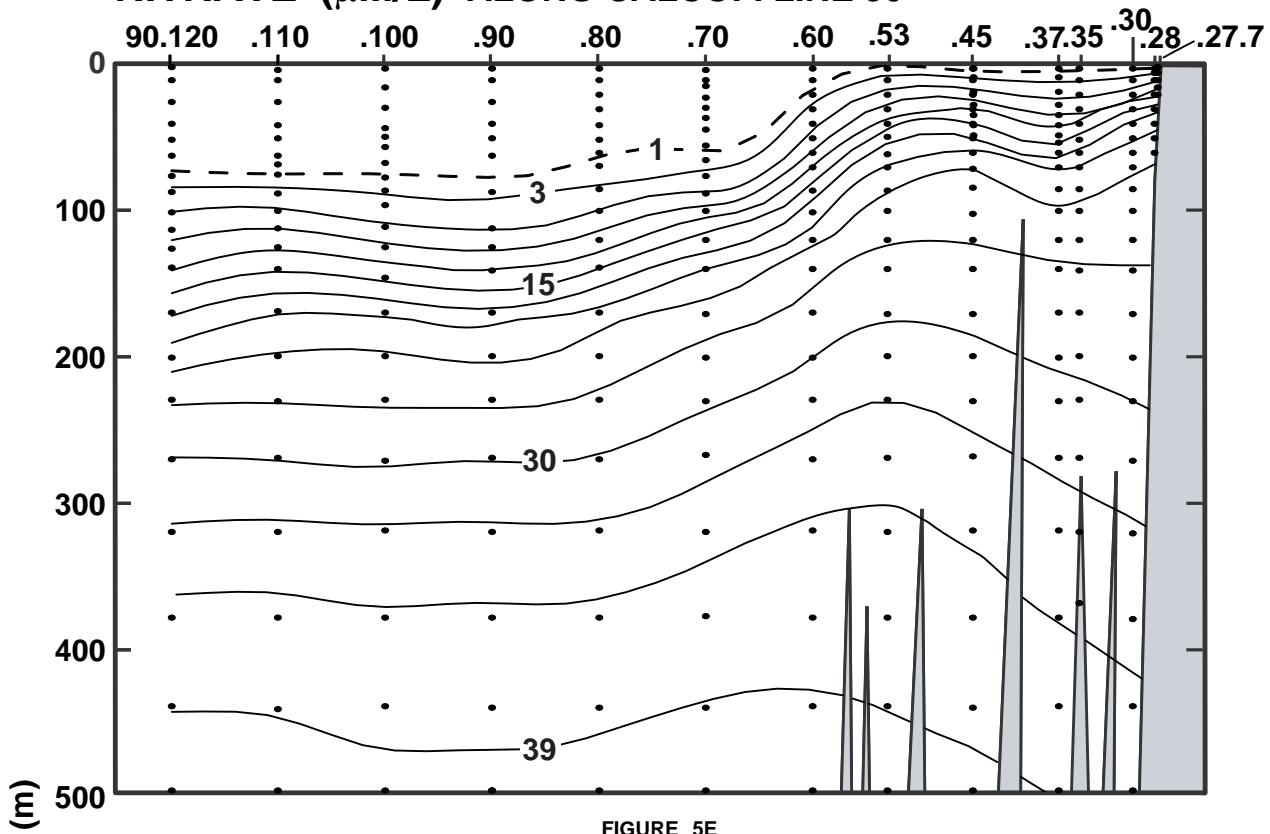
SALINITY ALONG CALCOFI LINE 90



CALCOFI CRUISE 1008

30 July - 18 August 2010

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



CALCOFI CRUISE 1008

30 July - 18 August 2010

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

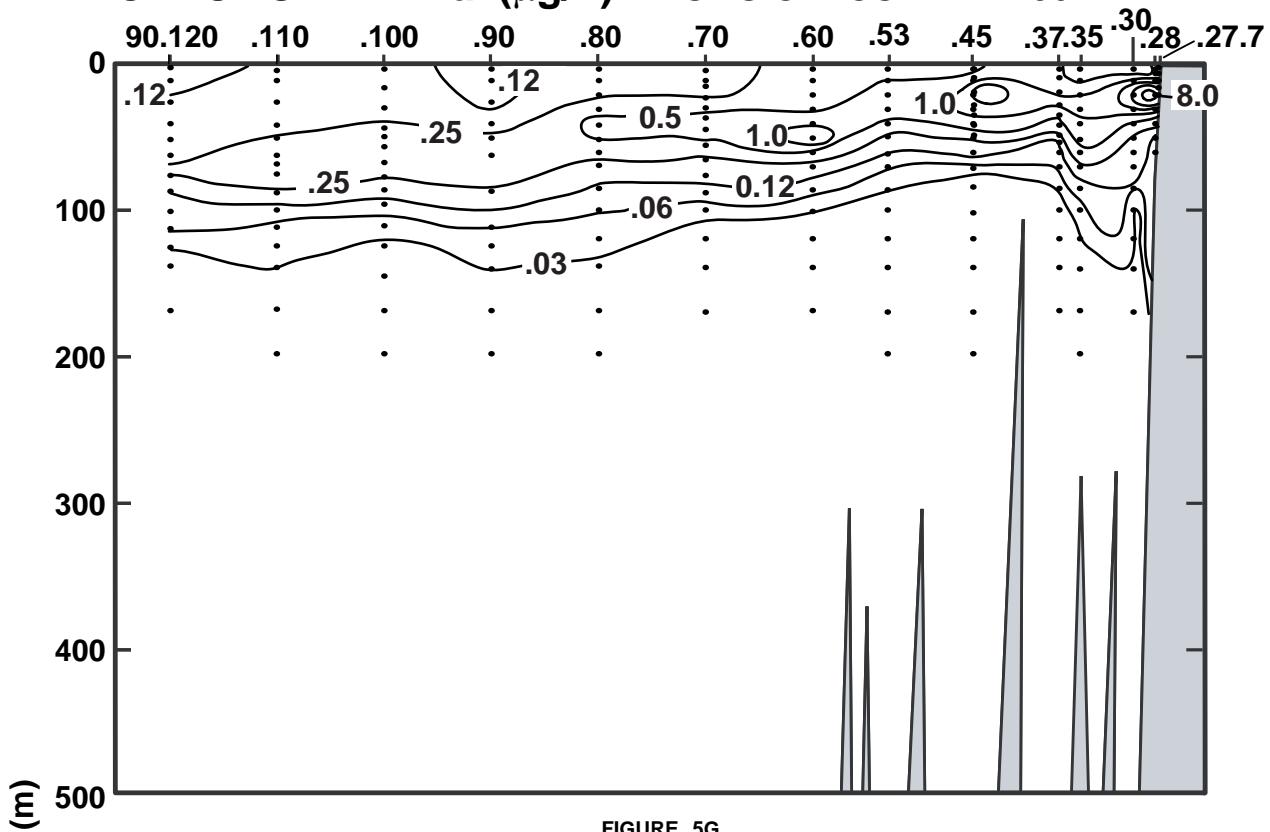


FIGURE 5G

OXYGEN SATURATION (%) ALONG CALCOFI LINE 90

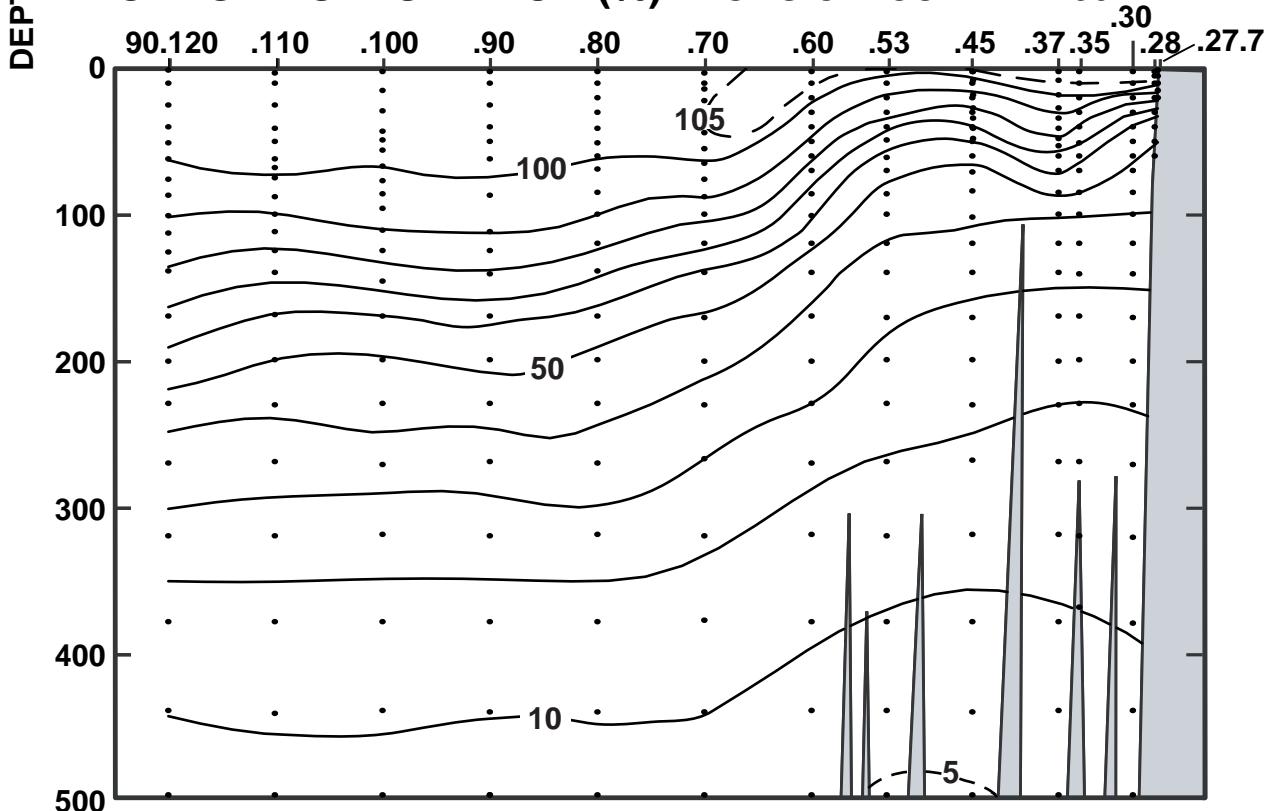


FIGURE 5H

CALCOFI CRUISE 1008

30 July - 18 August 2010

OXYGEN (mL/L) ALONG CALCOFI LINE 90

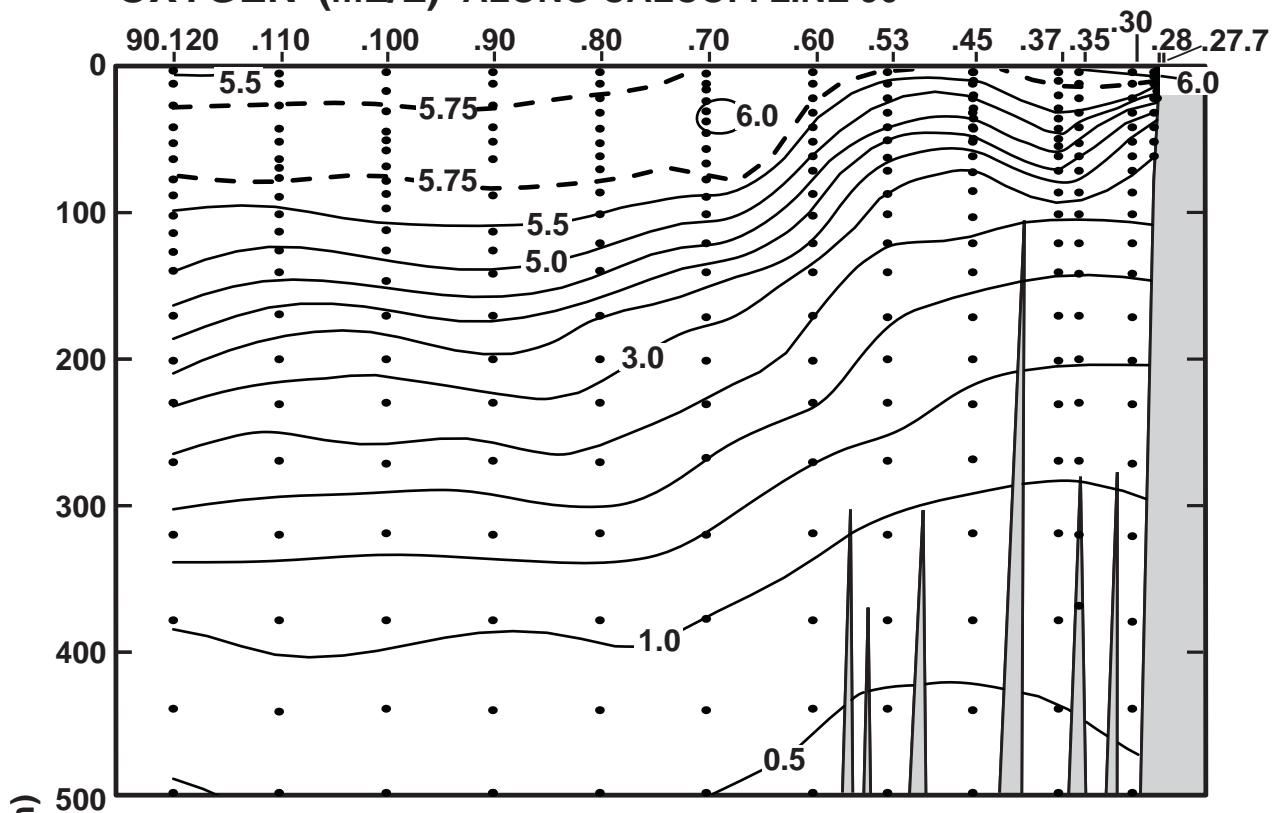


FIGURE 5I

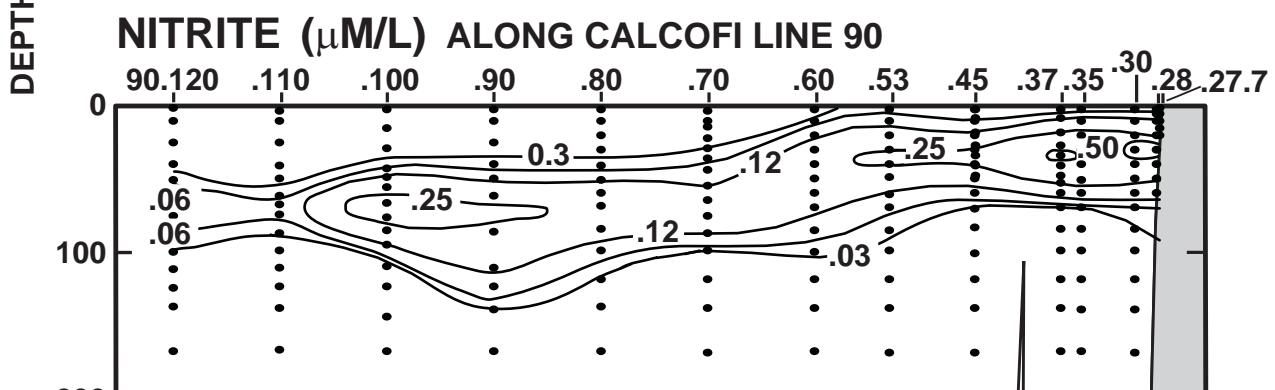


FIGURE 5J

PHAEOPIGMENTS (μg/L) ALONG CALCOFI LINE 90

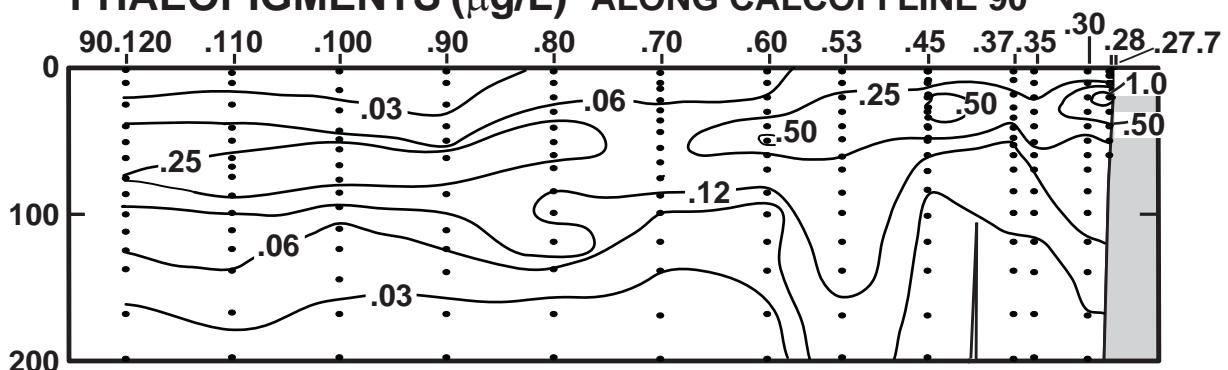


FIGURE 5K

PERSONNEL

CalCOFI Cruise 1008

SHIP'S CAPTAIN

Wes Hill, RV *New Horizon*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

Wolgast, David M. (Chief Scientist)	Staff Research Associate, SIO
Bowlin, Noelle	Fishery Biologist, NMFS
Breese, Dawn	Bird Observer, FIAER
Camacho-Wiley Dominique	Marine Mammal Observer, MPL
Chen, Yu-Kai	Fishery Biologist, Taiwan Fisheries Research Inst.
Dovel, Shonna	Staff Research Associate, SIO
Hays, Amy	Fishery Biologist, NMFS
Liu, Jian	Staff Research Associate, SIO
Miller, Melissa	Staff Research Associate, SIO
Nash, Alice	Volunteer, SIO
Netburn, Amanda	Graduate Student, SIO
Overcash, Bryan	Staff Research Associate, SIO
Roadman, Megan	Staff Research Associate, SIO
Roache, Lauren	Staff Research Associate, MPL
Rodgers-Wolgast, Jennifer	Staff Research Associate, SIO
Susner, Grant M.	Staff Research Associate, SIO
Whitaker, Katherine	Marine Mammal Observer, MPL
Wilkinson, James R.	Programmer Analyst, SIO

San Diego to San Diego, California, 30 July – 17 Aug, 2010

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	ml/l	PCT	uM/l	uM/l	uM/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	db	
0 ISL	11.76	11.76	33.631	25.571	240.4	0.000	5.06	82.5	14.5	1.27	14.1	0.27	0.09	6.23	0.39	0	
2	11.76	11.76	33.631	25.571	240.5	0.005	5.06	82.5	14.5	1.27	14.1	0.27	0.09	6.23	0.39	2 209	
5	11.74	11.74	33.634	25.578	240.0	0.012	5.00	81.5	14.4	1.27	14.3	0.28	0.11	6.19	0.42	5 208	
10	11.74	11.74	33.633	25.577	240.1	0.024	5.02	81.8	14.4	1.26	14.2	0.27	0.12	6.31	0.36	10 206	
10	11.73	11.73	33.634	25.580	239.9	0.024										10 207	
20	11.67	11.67	33.638	25.594	238.8	0.048	4.88	79.4	15.0	1.32	14.7	0.27	0.12	6.16	0.30	20 205	
30	11.60	11.60	33.646	25.613	237.2	0.072	4.76	77.3	15.2	1.33	15.1	0.28	0.12	5.62	0.36	30 204	
40	11.26	11.26	33.652	25.680	231.0	0.095	4.21	67.9	17.3	1.49	17.6	0.28	0.18	4.09	0.30	40 203	
50	10.48	10.47	33.735	25.884	211.9	0.117	3.00	47.6	23.8	1.92	23.3	0.22	0.00	0.40	0.29	50 202	
60	10.26	10.25	33.798	25.971	203.8	0.138	2.57	40.6	26.7	2.05	25.1	0.11	0.00	0.16	0.23	60 201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 76.7 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	SI03	PO4	NO3	NO2	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	ml/l	PCT	uM/l	uM/l	uM/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	db	
0 ISL	13.57	13.57	33.445	25.075	287.7	0.000	5.94	100.5	4.8	0.71	6.0	0.35	0.26	1.13	0.26	0	
2	13.57	13.57	33.445	25.075	287.7	0.006	5.94	100.5	4.8	0.71	6.0	0.35	0.26	1.13	0.26	2 216	
10	13.55	13.55	33.444	25.078	287.6	0.029	5.92	100.1	4.9	0.73	6.2	0.35	0.26	1.08	0.27	10 214	
10	13.56	13.56	33.444	25.076	287.8	0.029										10 215	
20	12.30	12.30	33.366	25.264	270.1	0.057	5.61	92.3	8.8	1.03	10.1	0.55	0.48	0.81	0.31	20 213	
30	11.06	11.06	33.341	25.474	250.4	0.083	5.00	80.1	14.7	1.37	15.7	0.47	0.24	0.42	0.21	30 212	
40	10.73	10.73	33.414	25.590	239.6	0.107	4.61	73.4	16.4	1.50	18.2	0.25	0.00	0.26	0.13	40 211	
50	10.55	10.54	33.478	25.671	232.1	0.131	4.34	68.8	18.1	1.59	19.8	0.16	0.00	0.20	0.11	50 210	
61	10.11	10.10	33.586	25.831	217.1	0.155	3.71	58.3	22.1	1.79	23.1	0.05	0.00	0.11	0.14	61 209	
71	9.94	9.93	33.705	25.953	205.7	0.177	3.22	50.5	24.6	1.90	24.7	0.03	0.00	0.08	0.11	71 208	
75 ISL	9.91 D	9.90	33.724 D	25.973	203.9	0.185	3.14	49.2	25.1	1.92	25.0	0.03	0.00	0.07	0.11	75	
85	9.67	9.66	33.747	26.031	198.6	0.205	3.02	47.1	25.9	1.96	25.6	0.02	0.00	0.05	0.12	85 207	
100	9.46	9.45	33.828	26.129	189.6	0.234	2.67	41.4	28.4	2.07	26.8	0.02	0.00	0.04	0.11	101 206	
120	9.24	9.23	33.970	26.276	176.0	0.271	2.13	32.9	32.9	2.21	28.6	0.02	0.00	0.02	0.11	121 205	
125 ISL	9.14 D	9.13	33.977 D	26.297	174.0	0.279	2.11	32.5	33.3	2.22	28.8	0.02	0.00	0.02	0.11	126	
141	9.06	9.04	34.014	26.339	170.4	0.307	2.06	31.7	34.2	2.25	29.2	0.02	0.00	0.02	0.11	142 204	
150 ISL	9.08 D	9.06	34.085 D	26.392	165.6	0.322	1.86	28.7	35.7	2.32	29.7	0.03	0.00	0.02	0.12	151	
170	8.98	8.96	34.140	26.451	160.3	0.355	1.38	21.2	39.4	2.47	30.9	0.04	0.00	0.02	0.14	171 203	
200 ISL	8.81 D	8.79	34.152 D	26.488	157.4	0.402	1.23	18.8	42.4	2.55	31.6	0.14	0.00	0.02	0.20	201	
201	8.82	8.80	34.161	26.493	156.9	0.404	1.23	18.9	42.5	2.55	31.6	0.14	0.00	0.02	0.20	202 202	
231	8.81	8.79	34.154	26.490	157.8	0.451	1.23	18.8	42.6	2.56	31.6	0.15	0.00		232	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 76.7 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	NO3	NO2	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	ml/l	PCT	uM/l	uM/l	uM/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	db	
0 ISL	15.37	15.37	33.421	24.675	325.7	0.000	6.02	105.6	0.6	0.34	0.5	0.04	0.00	0.76	0.20	0	
2	15.37	15.37	33.421	24.675	325.8	0.007	6.02	105.6	0.6	0.34	0.5	0.04	0.00	0.76	0.20	2 221	
10	15.36	15.36	33.422	24.678	325.7	0.033	6.04	105.9	0.6	0.33	0.5	0.04	0.00	0.77	0.21	10 219	
10	15.37	15.37	33.423	24.677	325.9	0.033										10 220	
20	14.56	14.56	33.450	24.873	307.5	0.064	6.03	104.1	1.5	0.47	2.5	0.15	0.18	0.83	0.28	20 218	
30	12.63	12.63	33.365	25.200	276.5	0.093	5.50	91.2	6.4	1.01	8.8	0.57	1.28	0.60	0.30	30 217	
40	11.36	11.36	33.453	25.508	247.4	0.120	4.70	75.9	11.6	1.35	16.1	0.17	0.00	0.15	0.14	40 216	
50	10.27	10.26	33.562	25.785	221.2	0.143	3.89	61.4	19.4	1.66	21.5	0.02	0.00	0.04	0.09	50 215	
60	9.74	9.73	33.660	25.951	205.7	0.164	3.35	52.3	23.7	1.83	24.3	0.02	0.00	0.03	0.10	60 214	
71	9.65	9.64	33.723	26.015	199.8	0.187	3.08	48.0	25.4	1.95	25.5	0.02	0.00	0.02	0.12	71 213	
75 ISL	9.53 D	9.52	33.761 D	26.064	195.1	0.195	2.79	43.3	26.9	2.02	26.2	0.02	0.00	0.02	0.12	75	
85	9.74	9.73	33.927	26.160	186.4	0.214	2.08	32.5	30.4	2.17	27.7	0.02	0.00	0.01	0.13	85 212	
100	9.70	9.69	33.954	26.188	184.0	0.241	1.99	31.1	31.2	2.19	28.0	0.01	0.00	0.01	0.14	101 211	
120	9.52	9.51	34.048	26.291	174.6	0.277	1.68	26.1	34.2	2.30	29.0	0.01	0.00	0.01	0.12	121 210	
125 ISL	9.52 D	9.51	34.052 D	26.294	174.4	0.286	1.64	25.5	34.6	2.32	29.2	0.01	0.00	0.01	0.12	126	
143	9.45	9.43	34.086	26.333	171.1	0.317	1.55	24.1	35.3	2.35	29.6	0.01	0.00	0.01	0.14	144 209	
150 ISL	9.44 D	9.42	34.087 D	26.335	171.0	0.329	1.52	23.6	35.5	2.36	29.7	0.01	0.00	0.01	0.14	151	
169	9.39	9.37	34.120	26.370	168.2	0.361	1.44	22.3	36.1	2.38	29.9	0.02	0.00	0.01	0.13	170 208	
200	9.13	9.11	34.171	26.452	160.9	0.412	1.32	20.4	39.0	2.45	30.7	0.02	0.00	0.01	0.11	201 207	
232	8.76	8.74	34.202	26.535	153.5	0.463	1.13	17.3	42.8	2.54	32.0	0.01	0.00		233	206	
250 ISL	8.59 D	8.56	34.208 D	26.567	150.8	0.490	1.08	16.5	44.1	2.57	32.4</td						

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 76.7 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	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	ug/l	ug/l	db		
0 ISL	14.26	14.26	33.474	24.954	299.1	0.000	5.93	101.7	2.6	0.63	4.7	0.28	0.15	0.93	0.17	0	
2	14.26	14.26	33.474	24.954	299.2	0.006	5.93	101.7	2.6	0.63	4.7	0.28	0.15	0.93	0.17	2	
6	14.25	14.25	33.470	24.953	299.4	0.018	5.93	101.7	2.6	0.63	4.7	0.28	0.15	0.80	0.27	6	
10 ISL	14.24	14.24	33.473	D 24.958	299.0	0.030	5.94	101.9	2.6	0.63	4.7	0.28	0.15	0.87	0.29	10	
12	14.24	14.24	33.472	24.957	299.2	0.036	5.94	101.9	2.6	0.63	4.7	0.28	0.15	0.92	0.30	12	
19	14.23	14.23	33.477	24.964	298.8	0.057	5.93	101.7	2.4	0.62	4.6	0.28	0.18	0.90	0.29	19	
20 ISL	14.23	D 14.23	33.474	D 24.961	299.0	0.060	5.93	101.7	2.4	0.62	4.6	0.28	0.18	0.89	0.31	20	
23	14.22	14.22	33.473	24.963	299.0	0.069	5.93	101.7	2.4	0.62	4.6	0.28	0.17	0.84	0.37	23	
30 ISL	13.33	D 13.33	33.464	D 25.139	282.4	0.089	5.52	92.9	5.0	0.86	7.9	0.38	0.37	0.78	0.31	30	
33	12.60	12.60	33.432	25.258	271.1	0.097	5.28	87.5	6.7	1.00	9.9	0.42	0.45	0.74	0.29	33	
41	11.77	11.76	33.443	25.424	255.4	0.119	4.87	79.3	10.9	1.26	14.3	0.33	0.26	0.53	0.19	41	
50	10.90	10.89	33.498	25.625	236.5	0.141	4.32	69.1	15.7	1.53	18.8	0.17	0.05	0.17	0.11	50	
60	10.28	10.27	33.586	25.802	219.8	0.163	3.73	58.9	20.4	1.72	21.9	0.06	0.00	0.11	0.13	60	
70	9.89	9.88	33.801	26.036	197.8	0.184	2.68	42.0	26.9	2.01	25.7	0.02	0.00	0.03	0.12	70	
75 ISL	9.78	D 9.77	33.814	D 26.065	195.2	0.194	2.67	41.7	27.3	2.02	26.0	0.02	0.00	0.03	0.11	75	
85	9.56	9.55	33.829	26.113	190.8	0.213	2.65	41.2	28.2	2.04	26.5	0.02	0.00	0.02	0.11	85	
100	9.52	9.51	33.911	26.184	184.4	0.242	2.29	35.6	30.5	2.14	27.5	0.01	0.00	0.01	0.13	101	
120	9.36	9.35	34.003	26.282	175.4	0.278	1.95	30.2	33.4	2.25	28.7	0.01	0.00	0.01	0.12	121	
125 ISL	9.31	D 9.30	34.012	D 26.297	174.1	0.286	1.85	28.6	34.0	2.28	29.0	0.01	0.00	0.01	0.12	126	
141	9.34	9.32	34.087	26.351	169.3	0.314	1.60	24.8	35.6	2.36	29.7	0.01	0.00	0.01	0.12	142	
150 ISL	9.30	D 9.28	34.108	D 26.375	167.3	0.329	1.62	25.1	36.2	2.36	29.9	0.02	0.00	0.01	0.12	151	
170	9.00	8.98	34.093	26.411	164.1	0.362	1.65	25.4	37.4	2.37	30.3	0.03	0.00	0.01	0.13	171	
200	8.93	8.91	34.130	26.452	160.8	0.411	1.40	21.5	39.6	2.46	31.0	0.02	0.00	0.01	0.13	201	
230	8.47	8.45	34.117	26.513	155.4	0.458	1.53	23.3	41.8	2.47	31.9	0.05	0.00		231	206	
250 ISL	8.29	D 8.26	34.121	D 26.544	152.7	0.489	1.52	23.0	43.7	2.49	32.6	0.03	0.00		252		
271	7.90	7.87	34.103	26.588	148.7	0.521	1.51	22.7	45.9	2.53	33.3	0.01	0.00		273	205	
300 ISL	7.69	D 7.66	34.123	D 26.635	144.7	0.563	1.40	20.9	48.6	2.59	34.1	0.01	0.00		302		
320	7.61	7.58	34.126	26.649	143.6	0.592	1.29	19.2	50.8	2.64	34.7	0.01	0.00		322	204	
379	6.91	6.87	34.164	26.778	131.9	0.673	0.90	13.2	61.2	2.87	37.3	0.00	0.00		382	203	
400 ISL	6.74	D 6.70	34.167	D 26.803	129.7	0.701	0.83	12.1	65.2	2.92	38.3	0.00	0.00		403		
440	6.06	6.02	34.152	26.880	122.4	0.751	0.72	10.3	72.2	3.00	40.0	0.00	0.00		443	202	
500 ISL	5.74	D 5.70	34.197	D 26.956	115.7	0.823	0.52	7.4	79.0	3.10	41.0	0.00	0.00		504		
517	5.70	5.66	34.212	26.973	114.3	0.842	0.46	6.6	80.9	3.13	41.3	0.00	0.00		521	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	db		
0 ISL	15.54	15.54	33.390	24.613	331.6	0.000	6.04	106.3	1.3	0.32	0.2	0.01	0.09	0.68	0.16	0	
2	15.54	15.54	33.390	24.613	331.7	0.007	6.04	106.3	1.3	0.32	0.2	0.01	0.09	0.68	0.16	2	
10 ISL	15.54	15.54	33.394	24.617	331.6	0.033	6.03	106.1	1.2	0.33	0.2	0.01	0.09	0.67	0.14	10	
20	15.53	15.53	33.391	24.617	331.9	0.066	6.04	106.3	1.2	0.33	0.2	0.01	0.09	0.69	0.16	20	
30	13.79	13.79	33.323	24.936	301.7	0.098	6.05	102.7	9.0	0.77	6.6	0.17	1.00	0.35	30	217	
40	12.29	12.28	33.273	25.195	277.3	0.127	5.73	94.2	12.3	1.04	10.3	0.33	0.34	0.96	0.45	40	
49	10.78	10.77	33.196	D 25.411	256.8	0.151	5.11	D 81.3							49	215	
50 ISL	10.74	D 10.73	33.196	D 25.418	256.1	0.154	5.05	80.3	16.2	1.34	15.4	0.22	0.20	0.57	0.32	50	
60	9.98	9.97	33.397	25.705	229.0	0.178	4.55	71.2	20.0	1.59	20.0	0.04	0.00	0.16	0.14	60	
70	9.43	9.42	33.461	25.846	215.7	0.200	4.25	65.8	22.9	1.71	22.0	0.02	0.00	0.06	0.08	70	
75 ISL	9.42	D 9.41	33.489	D 25.870	213.6	0.211	4.10	63.4	23.8	1.76	22.8	0.01	0.00	0.05	0.08	75	
86	9.27	9.26	33.585	25.969	204.4	0.234	3.75	57.9	25.8	1.87	24.6	0.01	0.00	0.03	0.07	86	
100 ISL	9.10	D 9.09	33.737	D 26.115	190.7	0.261	3.17	48.8	29.5	2.04	27.2	0.01	0.00	0.01	0.06	101	
101	9.09	9.08	33.727	26.109	191.3	0.263	3.13	48.1	29.8	2.05	27.4	0.01	0.00	0.01	0.06	102	
120	8.74	8.73	33.847	26.258	177.5	0.298	2.85	43.5	31.9	2.06	27.8	0.01	0.00	0.01	0.06	121	
125 ISL	8.88	D 8.87	33.905	D 26.282	175.4	0.307	2.70	41.4	32.6	2.09	28.2	0.01	0.00	0.01	0.06	126	
140	8.81	8.80	33.985	26.356	168.7	0.333	2.24	34.3	34.7	2.21	29.3	0.01	0.00	0.00	0.06	141	
150 ISL	8.61	D 8.59	33.996	D 26.396	165.0	0.350	2.04	31.1	36.1	2.26	29.8	0.01	0.00	0.00	0.06	151	
170	8.70	8.68	34.065	26.436	161.6	0.382	1.86	28.4	38.6	2.33	30.4	0.01	0.00	0.00	0.06	171	
200 ISL	8.06	D 8.04	34.041	D 26.515	154.4	0.430	2.10	31.6	41.2	2.33	31.2	0.02	0.00	0.00	0.06	201	
201	8.07	8.05	34.034	26.508	155.1	0.431	2.11	31.8	41.3	2.33	31.2	0.02	0.00	0.00	0.06	202	
230	7.87	7.85	34.100	26.590	147.8	0.475	1.59	23.8	46.7	2.51	33.0	0.02	0.00		231	206	
250 ISL	7.43	D 7.41	34.078	D 26.636	143.6	0.504	1.36	20.2	50.1	2.61	34.2	0.02	0.00		252		
270	7.41	7.38	34.124	26.675	140.2	0.533	1.20	17.8	53.3	2.69	35.4	0.01	0.00		272	205	
300 ISL	7.06	D 7.03	34.142	D 26.739	134												

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	db	
0 ISL	16.08	16.08	33.289	24.415	350.5	0.000	5.95	105.8	1.4	0.45	1.6	0.06	0.11	0.42	0.09	0.09	0	
1	16.08	16.08	33.289	24.415	350.5	0.004	5.95	105.8	1.4	0.45	1.6	0.06	0.11	0.42	0.09	1	220	
10	15.53	15.53	33.246	24.505	342.2	0.035	6.06	106.5	2.1	0.49	2.1	0.08	0.11	0.38	0.08	10	219	
20	13.17	13.17	32.986	24.801	314.3	0.068	6.29	105.2	5.3	0.62	3.6	0.15	0.07	0.60	0.18	20	218	
30	12.04	12.04	32.950	24.991	296.4	0.098	5.99	97.8	6.8	0.78	5.6	0.35	0.26	0.75	0.36	30	217	
40	12.48	12.47	33.219	25.116	284.7	0.127	5.77	95.2	8.3	0.90	7.6	0.42	0.86	0.43	0.27	40	216	
50	11.13	11.12	33.155	25.317	265.7	0.155	5.47	87.7	12.4	1.13	11.0	0.61	0.60	0.36	0.25	50	215	
60	10.08	10.07	33.114	25.468	251.6	0.180	5.06	79.3	14.4	1.28	14.4	0.27	0.00	0.20	0.16	60	214	
70	9.72	9.71	33.341	25.705	229.2	0.205	4.38	68.2	18.1	1.54	19.1	0.04	0.00	0.05	0.05	70	213	
75 ISL	9.65 D	9.64	33.438 D	25.792	221.0	0.216	4.16	64.7	19.9	1.64	20.8	0.03	0.00	0.04	0.05	75		
85	9.34	9.33	33.536	25.919	209.1	0.237	3.80	58.7	23.3	1.80	23.4	0.02	0.00	0.02	0.06	85	212	
100	9.01	9.00	33.719	26.115	190.7	0.267	3.20	49.1	27.5	1.95	26.0	0.01	0.00	0.01	0.04	101	211	
121	8.81	8.80	33.874	26.269	176.6	0.306	2.59	39.6	34.2	2.20	30.0	0.00	0.00	0.01	0.06	122	210	
125 ISL	8.82 D	8.81	33.901 D	26.288	174.8	0.313	2.43	37.2	34.8	2.23	30.4	0.00	0.00	0.01	0.06	126		
140	8.70	8.69	33.978	26.368	167.5	0.339	1.92	29.3	36.4	2.30	31.1	0.00	0.00	0.01	0.08	141	209	
150 ISL	8.59 D	8.57	33.993 D	26.396	164.9	0.355	1.95	29.7	37.1	2.30	31.2	0.00	0.00	0.01	0.08	151		
170	8.35	8.33	34.018	26.453	159.9	0.388	2.00	30.3	38.6	2.29	31.3	0.01	0.00	0.01	0.07	171	208	
200	7.99	7.97	34.045	26.529	153.1	0.435	1.75	26.3	43.0	2.41	32.9	0.01	0.00	0.00	0.06	201	207	
232	7.59	7.57	34.053	26.594	147.4	0.483	1.45	21.6	48.1	2.56	35.0	0.00	0.00		233	206		
250 ISL	7.38 D	7.36	34.071 D	26.638	143.4	0.509	1.36	20.2	50.2	2.60	35.5	0.00	0.00		252			
270	7.30	7.27	34.079	26.656	142.0	0.537	1.28	18.9	52.4	2.64	35.8	0.00	0.00		272	205		
300 ISL	7.11 D	7.08	34.130 D	26.722	136.0	0.579	1.03	15.2	57.0	2.75	36.7	0.00	0.00		302			
320	7.00	6.97	34.153	26.756	133.1	0.606	0.86	12.6	60.0	2.83	37.3	0.00	0.00		322	204		
380	6.61	6.58	34.178	26.829	126.9	0.684	0.69	10.1	66.4	2.94	38.6	0.00	0.00		383	203		
400 ISL	6.51 D	6.47	34.191 D	26.853	124.9	0.709	0.65	9.4	69.0	2.98	39.1	0.00	0.00		403			
440	6.01	5.97	34.180	26.908	119.6	0.758	0.58	8.3	74.6	3.06	40.2	0.00	0.00		443	202		
500 ISL	5.48 D	5.44	34.212 D	26.999	111.3	0.827	0.45 D	6.4	83.4	3.16	41.6	0.00	0.00		504			
515	5.48	5.44	34.229	27.013	110.2	0.844	0.42 D	6.0	85.6	3.18	42.0	0.00	0.00		519	201		

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	db	
0 ISL	15.99	15.99	32.815	24.071	383.3	0.000	6.02	106.5	3.9	0.42	0.3	0.02	0.08	0.35	0.07	0		
2	15.99	15.99	32.815	24.071	383.4	0.008	6.02	106.5	3.9	0.42	0.3	0.02	0.08	0.35	0.07	2	220	
10 ISL	15.11 D	15.11	32.811 D	24.262	365.3	0.038	6.11	106.2	3.8	0.42	0.3	0.02	0.06	0.40	0.09	10		
11	15.07	15.07	32.819	24.277	364.0	0.041	6.12	106.3	3.8	0.42	0.3	0.02	0.06	0.41	0.09	11	219	
20	14.67	14.67	32.819	24.363	356.0	0.074	6.18	106.5	3.9	0.40	0.2	0.03	0.05	0.54	0.12	20	218	
30	14.28	14.28	32.806	24.436	349.4	0.109	6.22	106.3	3.5	0.40	0.2	0.02	0.03	0.69	0.19	30	217	
40	13.37	13.36	32.777	24.599	334.0	0.143	6.14	103.0	3.7	0.49	1.0	0.13	0.19	0.67	0.23	40	216	
50	12.90	12.89	32.866	24.762	318.8	0.176	5.90	98.0	3.7	0.53	1.6	0.28	0.15	0.37	0.22	50	215	
60	12.88	12.87	32.979	24.853	310.3	0.207	5.65	93.9	3.4	0.51	1.9	0.03	0.00	0.26	0.16	60	214	
71	12.35	12.34	32.988	24.963	300.1	0.241	5.54	91.1	4.2	0.60	3.4	0.03	0.00	0.21	0.13	71	213	
75 ISL	11.94 D	11.93	33.013 D	25.060	290.9	0.253	5.52	90.0	5.3	0.70	5.1	0.02	0.00	0.16	0.11	75		
85	11.61	11.60	33.073	25.168	280.9	0.281	5.46	88.4	8.7	0.98	9.7	0.01	0.00	0.04	0.06	85	212	
100 ISL	10.78 D	10.77	33.158	25.383	260.6	0.322	5.28	84.0	12.7	1.19	13.5	0.01	0.00	0.02	0.05	100		
101	10.81	10.80	33.156	25.376	261.3	0.324	5.26	83.7	12.9	1.20	13.7	0.01	0.00	0.02	0.05	101	211	
120	9.86	9.85	33.327	25.672	233.4	0.371	4.52	70.5	17.0	1.44	17.8	0.01	0.00	0.02	0.05	121	210	
125 ISL	9.75 D	9.74	33.401 D	25.748	226.3	0.383	4.26	66.4	18.8	1.55	19.4	0.01	0.00	0.02	0.05	126		
140	9.56	9.54	33.603	25.937	208.6	0.415	3.52	54.7	24.3	1.85	24.0	0.00	0.00	0.01	0.04	141	209	
150 ISL	9.22 D	9.20	33.670 D	26.045	198.5	0.436	3.19	49.2	26.7	1.95	25.6	0.00	0.00	0.01	0.04	151		
171	8.98	8.96	33.848	26.223	182.0	0.476	2.77	42.5	30.3	2.04	27.4	0.00	0.00	0.00	0.04	172	208	
200	8.60	8.58	33.959	26.369	168.5	0.527	2.61	39.8	33.3	2.08	28.3	0.00	0.00	0.00	0.02	201	207	
230	7.97	7.95	33.976	26.478	158.5	0.576	2.86	42.9	36.5	2.05	28.6	0.00	0.00		231	206		
250 ISL	7.76 D	7.74	34.017 D	26.541	152.7	0.607	2.48	37.1	40.8	2.20	30.4	0.00	0.00		251			
269	7.58	7.55	34.042	26.587	148.6	0.635	1.99	29.6	45.4	2.37	32.5	0.00	0.00		271	205		
300 ISL	7.26 D	7.23	34.071 D	26.655	142.5	0.681	1.54	22.8	51.1	2.55	34.6	0.00	0.00		302			
321	7.11	7.08	34.091	26.692	139.3	0.710	1.32	19.4	54.4	2.64	35.7	0.00	0.00		323	204		
380	6.63	6.60	34.121	26.781	131.4	0.790	0.95	13.8	62.6	2.84	38.0	0.00	0.00		382	203		
400 ISL	6.50 D	6.46	34.139 D	26.813	128.6	0.816	0.84	12.2	65.6	2.90	38.7	0.00	0.00		403			
439	6.20	6.16	34.166	26.873	123.1	0.865	0.65	9.4	71.3	3.01	39.7	0.00	0.00		442	202		
500 ISL	5.88 D	5.84	34.219 D	26.956	115.9	0.938	0.45	6.4	79.0	3.11	40.6	0.00	0.00		503			
515	5.81</td																	

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	16.30	16.30	32.949	24.103	380.2	0.000	5.77	102.8	2.7	0.35	0.0	0.00	0.00	0.18	0.04	0	
2	16.30	16.30	32.949	24.103	380.2	0.008	5.77	102.8	2.7	0.35	0.0	0.00	0.00	0.18	0.04	2	222
10 ISL	16.14 D	16.14	32.950 D	24.141	376.9	0.038	5.83	103.5	2.7	0.34	0.0	0.00	0.00	0.20	0.05	10	
12	16.00	16.00	32.948	24.171	374.1	0.045	5.85	103.6	2.7	0.34	0.0	0.00	0.00	0.21	0.06	12	221
20	15.81	15.81	32.960	24.223	369.4	0.075	5.83	102.9	2.7	0.34	0.0	0.00	0.00	0.26	0.07	20	220
27	15.71	15.71	32.960	24.246	367.5	0.101	5.84	102.8	2.6	0.35	0.0	0.00	0.00	0.30	0.10	27	219
30 ISL	15.50 D	15.50	32.965 D	24.296	362.7	0.112	5.86	102.8	2.6	0.34	0.0	0.00	0.00	0.34	0.10	30	
34	15.40	15.39	32.965	24.318	360.7	0.126	5.90	103.3	2.6	0.34	0.0	0.00	0.00	0.41	0.11	34	218
42	14.33	14.32	32.927	24.519	341.8	0.154	6.09	104.3	2.8	0.37	0.0	0.01	0.00	0.62	0.32	42	217
50 ISL	13.37 D	13.36	32.871 D	24.672	327.3	0.181	6.05	101.5	3.4	0.44	0.6	0.18	0.05	0.86	0.36	50	
53	13.10	13.09	32.854	24.713	323.5	0.191	6.04	100.8	3.6	0.47	1.0	0.25	0.07	0.89	0.37	53	215
53	13.11	13.10	32.851	24.709	323.9	0.191	6.03	100.6	3.6	0.47	1.0	0.25	0.05	0.74	0.48	53	216
63	13.17	13.16	32.996	24.809	314.6	0.223	5.74	96.0	4.2	0.57	2.7	0.26	0.00	0.44	0.39	63	214
74	12.34	12.33	33.025	24.994	297.3	0.257	5.58	91.7	5.8	0.72	5.7	0.04	0.00	0.20	0.17	74	213
75 ISL	12.12 D	12.11	33.019 D	25.031	293.7	0.260	5.57	91.1	5.9	0.73	5.9	0.04	0.00	0.19	0.17	75	
87	11.58	11.57	33.034	25.143	283.3	0.294	5.44	88.0	7.8	0.87	8.2	0.02	0.00	0.14	0.14	87	212
99	11.06	11.05	33.094	25.283	270.1	0.327	5.34	85.4	10.6	1.04	11.2	0.02	0.00	0.07	0.07	99	211
100 ISL	10.82 D	10.81	33.134 D	25.357	263.1	0.330	5.30	84.4	11.0	1.06	11.6	0.02	0.00	0.07	0.07	100	
120	9.91	9.90	33.333	25.668	233.8	0.380	4.38	68.4	18.1	1.53	19.0	0.01	0.00	0.02	0.04	121	210
125 ISL	9.95 D	9.94	33.415 D	25.726	228.4	0.391	4.22	66.0	19.1	1.58	19.9	0.01	0.00	0.02	0.04	126	
140	9.69	9.67	33.568	25.888	213.2	0.424	3.80	59.2	21.4	1.68	21.7	0.01	0.00	0.01	0.03	141	209
150 ISL	9.52 D	9.50	33.691 D	26.013	201.6	0.445	3.48	54.0	23.7	1.78	23.3	0.01	0.00	0.01	0.03	151	
174	9.10	9.08	33.839	26.196	184.5	0.491	2.85	43.9	29.2	1.99	26.7	0.01	0.00	0.00	0.03	175	208
197	8.74	8.72	33.943	26.335	171.7	0.532	2.62	40.0	32.6	2.08	27.9	0.01	0.00	0.00	0.03	198	207
200 ISL	8.74 D	8.72	33.960 D	26.348	170.5	0.538	2.62	40.0	32.8	2.08	27.9	0.01	0.00			201	
231	8.36	8.34	33.977	26.420	164.1	0.589	2.71	41.1	34.4	2.06	28.3	0.00	0.00			232	206
250 ISL	8.11 D	8.08	33.989 D	26.468	159.9	0.620	2.62	39.5	37.0	2.12	29.2	0.00	0.00			251	
271	7.77	7.74	33.995	26.522	154.9	0.653	2.45	36.6	40.6	2.21	30.5	0.00	0.00			273	205
300 ISL	7.30 D	7.27	34.009 D	26.601	147.6	0.697	2.20	32.5	45.4	2.34	32.4	0.00	0.00			302	
323	7.07	7.04	34.019	26.641	144.1	0.731	1.94	28.5	49.5	2.46	33.9	0.00	0.00			325	204
377	6.68	6.65	34.103	26.760	133.3	0.806	1.07	15.6	60.8	2.79	37.4	0.00	0.00			379	203
400 ISL	6.22 D	6.18	34.089 D	26.810	128.6	0.836	1.04	15.0	65.2	2.85	38.4	0.00	0.00			403	
441	5.81	5.77	34.091	26.863	123.7	0.887	0.98	14.0	72.4	2.92	39.7	0.00	0.00			444	202
500 ISL	5.46 D	5.42	34.160 D	26.960	114.9	0.958	0.61	8.6	81.6	3.08	41.3	0.00	0.00			503	
520	5.36	5.32	34.184	26.991	112.1	0.981	0.48	6.8	84.7	3.13	41.8	0.00	0.00			524	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	12.49	12.49	33.626	25.429	254.0	0.000	4.96	82.1	11.6	1.13	11.1	0.33	0.34	7.43	0.40	0	
2	12.49	12.49	33.626	25.429	254.0	0.005	4.96	82.1	11.6	1.13	11.1	0.33	0.34	7.43	0.40	2	206
5	12.54	12.54	33.628	25.421	254.9	0.013	5.01	83.0	11.5	1.18	10.9	0.33	0.32	6.63	0.54	5	205
10	12.39	12.39	33.629	25.451	252.1	0.025	4.89	80.8	12.1	1.16	11.4	0.34	0.33	6.34	0.63	10	203
10	12.39	12.39	33.630	25.452	252.1	0.025	4.86	80.3								10	204
15	12.10	12.10	33.630	25.507	246.9	0.038	4.37	71.7	14.6	1.36	13.7	0.37	0.53	4.23	0.38	15	202
20	12.08	12.08	33.632	25.513	246.5	0.050	4.28	70.2	15.3	1.37	14.3	0.37	0.59	3.45	0.31	20	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 80.0 55.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP	
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db			
0 ISL	15.05	15.05	33.462	24.776	316.1	0.000	6.14	107.0	0.5	0.38	1.3	0.11	0.13	2.18	0.16	0		
2	15.05	15.05	33.462	24.776	316.1	0.006	6.14	107.0	0.5	0.38	1.3	0.11	0.13	2.18	0.16	2	221	
10	15.00	15.00	33.462	24.787	315.3	0.032	6.16	107.3	0.5	0.39	1.3	0.12	0.10	2.33	0.18	10	219	
10	15.02	15.02	33.457	24.779	316.1	0.032											10	220
20	13.40	13.40	33.500	25.152	280.9	0.061	5.67	95.6	2.5	0.69	5.6	0.46	0.90	4.24	0.31	20	218	
30	11.92	11.92	33.487	25.430	254.6	0.088	4.93	80.6	8.3	1.22	13.3	0.39	0.28	0.18	0.14	30	217	
40	11.31	11.31	33.543	25.587	239.9	0.113	4.46	72.0	12.4	1.43	17.1	0.05	0.00	0.09	0.11	40	216	
50	10.62	10.61	33.545	25.711	228.3	0.136	4.09	65.0	17.4	1.60	19.8	0.04	0.11	0.07	0.12	50	215	
61	10.24	10.23	33.592	25.813	218.8	0.161	3.79	59.8	20.7	1.74	22.0	0.04	0.00	0.06	0.13	61	214	
70	9.97	9.96	33.669	25.919	208.9	0.180	3.41	53.5	23.5	1.87	24.0	0.03	0.00	0.06	0.13	70	213	
75 ISL	9.91	D	9.90	33.687	D	25.944	206.7	0.191	3.30	51.7	24.4	1.90	24.6	0.03	0.00	0.06	0.13	75
85	9.72	9.71	33.724	26.004	201.1	0.211	3.11	48.5	25.9	1.95	25.4	0.02	0.00	0.05	0.13	85	212	
100	9.34	9.33	33.864	26.176	185.0	0.240	2.53	39.2	30.0	2.10	27.5	0.02	0.00	0.03	0.12	101	211	
121	8.97	8.96	33.947	26.301	173.6	0.278	2.29	35.2	33.1	2.16	28.7	0.01	0.00	0.03	0.15	122	210	
125 ISL	8.90	D	8.89	33.956	D	26.319	171.9	0.284	2.26	34.7	33.7	2.18	28.9	0.01	0.01	0.03	0.15	126
140	8.68	8.67	33.993	26.382	166.1	0.310	2.18	33.3	35.8	2.23	29.6	0.01	0.06	0.02	0.12	141	209	
150 ISL	8.54	D	8.52	34.007	D	26.415	163.2	0.326	2.15	32.7	36.8	2.25	29.9	0.01	0.05	0.02	0.11	151
170	8.32	8.30	34.020	26.459	159.3	0.359	2.09	31.6	38.9	2.28	30.6	0.02	0.00	0.02	0.10	171	208	
200	7.92	7.90	34.054	26.546	151.5	0.405	1.81	27.2	43.4	2.41	32.3	0.01	0.00	0.01	0.11	201	207	
230	7.68	7.66	34.058	26.584	148.2	0.450	1.70	25.4	46.3	2.48	33.2	0.01	0.00			231	206	
250 ISL	7.49	D	7.47	34.083	D	26.632	144.0	0.479	1.54	22.9	49.3	2.55	34.1	0.01	0.00			252
271	7.33	7.30	34.098	26.666	141.0	0.509	1.35	20.0	52.6	2.63	35.0	0.01	0.00			273	205	
300 ISL	7.20	D	7.17	34.116	D	26.699	138.3	0.550	1.17	17.3	55.7	2.72	35.8	0.01	0.00			302
320	7.06	7.03	34.130	26.729	135.7	0.577	1.07	15.7	57.8	2.78	36.3	0.01	0.00			322	204	
381	6.46	6.43	34.145	26.823	127.3	0.657	0.85	42.3	66.6	2.92	38.4	0.01	0.00			384	203	
400 ISL	6.87	D	6.83	34.239	D	26.842	126.1	0.681	0.75	11.0	67.8	2.96	38.4	0.01	0.00			403
441	6.58	6.54	34.247	26.888	122.2	0.732	0.54	7.9	71.0	3.03	38.3	0.01	0.00			443	202	
500 ISL	6.10	D	6.06	34.261	D	26.962	115.6	0.802	0.41	5.9	78.5	3.13	39.4	0.03	0.00			504
515	6.05	6.00	34.267	26.973	114.7	0.820	0.38	5.5	80.4	3.15	39.7	0.03	0.00			519	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 80.0 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP	
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db			
0 ISL	14.73	14.73	33.465	24.848	309.3	0.000	6.16	106.7	0.4	0.42	2.1	0.15	0.10	2.22	0.40	0		
2	14.73	14.73	33.465	24.848	309.3	0.006	6.16	106.7	0.4	0.42	2.1	0.15	0.10	2.22	0.40	2	220	
10	14.73	14.73	33.463	24.846	309.7	0.031	6.16	106.7	0.2	0.42	2.1	0.15	0.08	2.13	0.35	10	219	
20	14.66	14.66	33.463	24.862	308.5	0.062	6.15	106.4	0.3	0.39	2.1	0.15	0.09	2.28	0.37	20	218	
29	13.47	13.47	33.453	25.102	285.9	0.089	5.68	95.9	1.8	0.80	5.0	0.49	1.69	1.58	0.36	29	217	
30 ISL	13.18	D	13.18	33.465	D	25.170	279.5	0.091	5.61	94.1	2.2	0.85	5.8	0.49	1.63	1.43	0.34	30
40	12.07	12.06	33.545	25.447	253.2	0.118	4.91	80.5	7.5	1.24	13.4	0.54	0.38	0.15	0.13	40	216	
50	11.24	11.23	33.498	25.564	242.3	0.143	4.59	73.9	12.3	1.40	16.8	0.02	0.00	0.10	0.15	50	215	
60	10.66	10.65	33.455	25.634	235.8	0.167	4.50	71.5	16.5	1.52	18.7	0.03	0.00	0.08	0.09	60	214	
70	10.28	10.27	33.499	25.734	226.5	0.190	4.22	66.6	19.1	1.64	20.6	0.02	0.00	0.07	0.11	70	213	
75 ISL	10.04	D	10.03	33.574	D	25.834	217.1	0.201	3.86	60.6	21.5	1.76	22.4	0.02	0.00	0.06	0.11	75
85	9.64	9.63	33.721	26.015	200.0	0.222	3.12	48.6	26.3	1.98	25.8	0.01	0.00	0.03	0.11	85	212	
100	9.37	9.36	33.828	26.143	188.2	0.251	2.67	41.4	29.5	2.09	27.5	0.01	0.00	0.03	0.12	101	211	
120	9.01	9.00	33.900	26.258	177.6	0.288	2.50	38.4	31.5	2.12	28.3	0.01	0.00	0.01	0.08	121	210	
125 ISL	8.98	D	8.97	33.902	D	26.264	177.1	0.296	2.45	37.6	32.1	2.13	28.5	0.01	0.00	0.01	0.08	126
140	8.78	8.77	33.960	26.341	170.1	0.322	2.31	35.3	34.0	2.18	29.0	0.01	0.00	0.01	0.08	141	209	
150 ISL	8.73	D	8.71	33.985	D	26.369	167.6	0.339	2.26	34.5	34.9	2.20	29.2	0.01	0.00	0.01	0.07	151
170	8.53	8.51	34.006	26.416	163.4	0.372	2.20	33.5	36.5	2.23	29.7	0.01	0.00	0.01	0.06	171	208	
200	8.19	8.17	34.031	26.488	157.1	0.420	2.04	30.8	39.7	2.31	31.0	0.01	0.00	0.01	0.05	201	207	
230	7.93	7.91	34.075	26.561	150.5	0.467	1.68	25.2	44.4	2.45	32.6	0.01	0.00			231	206	
250 ISL	7.68	D	7.66	34.097	D	26.615	145.7	0.496	1.48	22.1	47.8	2.55	33.7	0.01	0.00			252
270	7.46	7.43	34.104	26.653	142.4	0.525	1.32	19.6	51.2	2.64	34.8	0.01	0.00			272	205	
300 ISL	7.17	D	7.14	34.119	D	26.705	137.7	0.567	1.15	17.0	55.8	2.74	36.2	0.01	0.00			302
320	6.94	6.91	34.113	26.733	135.3	0.594	1.06	15.6	58.5	2.79	36.9	0.01	0.00			322	204	
381	6.82	6.78	34.186	26.807	129.1	0.675	0.73	10.7	63.4	2.93	37.6	0.00	0.00			384	203	
400 ISL	6.54	D	6.50	34.167	D	26.830	127.0	0.699	0.68	9.9	65.3	2.96	38.0	0.00	0.00			403
440	6.40	6.36	34.195	26.870</														

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	db	
0 ISL	15.64	15.64	33.061	24.338	357.8	0.000	5.96	104.9	1.4	0.39	0.1	0.03	0.10	0.77	0.15	0	
2	15.64	15.64	33.061	24.338	357.9	0.007	5.96	104.9	1.4	0.39	0.1	0.03	0.10	0.77	0.15	2	220
10	15.61	15.61	33.058	24.343	357.7	0.036	5.99	105.3	1.3	0.36	0.1	0.03	0.09	0.72	0.14	10	219
20	12.48	12.48	32.971	24.924	302.5	0.069	6.13	101.0	4.6	0.66	3.8	0.39	0.19	0.95	0.28	20	218
30	11.95	11.95	33.023	D 25.064	289.4	0.098	5.82	94.9	7.5	0.84	6.7	0.66	0.15	0.63	0.25	30	217
40	11.68	11.67	33.182	D 25.238	273.1	0.127	5.43	88.1	9.6	1.04	10.6	0.40	0.00	0.49	0.24	40	216
50	10.69	10.68	33.223	D 25.448	253.3	0.153	5.05	80.2	12.6	1.23	14.0	0.05	0.00	0.22	0.10	50	215
60	10.17	10.16	33.226	D 25.540	244.7	0.178	4.82	75.7	14.2	1.30	15.3	0.03	0.00	0.10	0.10	60	214
70	9.96	9.95	33.341	D 25.665	233.0	0.202	4.47	69.9	17.5	1.50	18.5	0.02	0.00	0.09	0.11	70	213
75 ISL	9.77 D	9.76	33.413	D 25.753	224.7	0.213	4.23	65.9	19.7	1.61	20.3	0.02	0.00	0.08	0.10	75	
85	9.60	9.59	33.564	D 25.899	211.0	0.235	3.76	58.4	23.8	1.80	23.5	0.02	0.00	0.05	0.08	85	212
100	9.54	9.53	33.682	D 26.001	201.6	0.266	3.40	52.8	26.4	1.93	25.5	0.02	0.00	0.04	0.09	101	211
120	9.03	9.02	33.793	D 26.171	185.9	0.305	2.90	44.6	30.0	2.04	27.4	0.01	0.00	0.02	0.08	121	210
125 ISL	8.98 D	8.97	33.820	D 26.200	183.2	0.314	2.76	42.4	30.6	2.06	27.6	0.01	0.00	0.02	0.07	126	
140	8.93	8.92	33.936	D 26.299	174.1	0.341	2.41	37.0	32.2	2.11	28.2	0.01	0.00	0.01	0.06	141	209
150 ISL	8.76 D	8.74	33.969	D 26.351	169.3	0.358	2.31	35.3	33.6	2.15	28.7	0.01	0.00	0.01	0.06	151	
170	8.46	8.44	34.007	D 26.428	162.3	0.391	2.20	33.4	36.7	2.22	29.8	0.02	0.00	0.01	0.07	171	208
200	8.17	8.15	34.048	D 26.504	155.5	0.439	1.95	29.4	40.8	2.33	31.2	0.01	0.00	0.01	0.06	201	207
230	7.77	7.75	34.082	D 26.590	147.7	0.484	1.66	24.8	46.2	2.47	33.0	0.01	0.00			231	206
250 ISL	7.65 D	7.63	34.110	D 26.630	144.3	0.513	1.38	20.6	49.9	2.58	34.1	0.01	0.00			252	
270	7.46	7.43	34.144	D 26.684	139.4	0.542	1.12	16.6	53.6	2.69	35.1	0.01	0.00			272	205
300 ISL	6.95 D	6.92	34.124	D 26.740	134.3	0.583	1.00	14.7	59.4	2.79	36.8	0.00	0.00			302	
320	6.58	6.55	34.119	D 26.786	130.0	0.609	0.97	14.1	62.9	2.84	37.8	0.00	0.00			322	204
381	6.18	6.15	34.140	D 26.855	124.0	0.687	0.76	11.0	69.5	2.95	39.2	0.01	0.00			384	203
400 ISL	6.02 D	5.99	34.155	D 26.887	121.1	0.710	0.70	10.1	72.1	2.99	39.6	0.01	0.00			403	
441	5.78	5.74	34.185	D 26.941	116.4	0.759	0.57	8.1	77.8	3.08	40.5	0.00	0.00			444	202
500 ISL	5.55 D	5.51	34.257	D 27.026	108.8	0.825	0.41	5.8	85.4	3.17	41.5	0.00	0.00			504	
516	5.39	5.35	34.241	D 27.033	108.2	0.842	0.37	5.2	87.4	3.19	41.8	0.00	0.00			520	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	PHAE0	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	14.87	14.87	32.982	24.445	347.6	0.000	6.17	106.9	3.2	0.45	0.9	0.06	0.06	0.43	0.08	0	
2	14.87	14.87	32.982	24.445	347.7	0.007	6.17	106.9	3.2	0.45	0.9	0.06	0.06	0.43	0.08	2	221
10	14.70	14.70	32.991	24.489	343.7	0.035	6.15	106.1	3.4	0.45	0.9	0.06	0.09	0.63	0.11	10	220
20	14.55	14.55	33.088	24.596	333.8	0.068	6.20	106.7	3.4	0.52	2.1	0.12	0.08	0.83	0.17	20	219
30 ISL	12.90 D	12.90	32.909	D 24.794	315.1	0.101	6.10	101.4	4.6	0.62	3.0	0.26	0.10	0.68	0.28	30	
31	12.86	12.86	32.907	D 24.801	314.6	0.104	6.08	101.0	4.8	0.63	3.1	0.28	0.10	0.65	0.29	31	222
39	12.01	12.01	32.864	D 24.930	302.4	0.129	5.88	95.9	5.6	0.74	4.5	0.38	0.17	0.37	0.24	39	217
47	11.86	11.85	32.912	D 24.995	296.3	0.153	5.73	93.2	6.2	0.76	5.5	0.27	0.00	0.29	0.21	47	216
50 ISL	11.79 D	11.78	33.016	D 25.089	287.5	0.161	5.61	91.1	7.0	0.83	6.8	0.18	0.00	0.25	0.20	50	
55	11.45	11.44	33.059	D 25.185	278.4	0.176	5.40	87.1	8.5	0.96	9.2	0.05	0.00	0.18	0.17	55	215
62	10.96	10.95	33.087	D 25.295	268.1	0.195	5.25	83.8	10.2	1.08	11.2	0.04	0.00	0.14	0.12	62	214
70	10.60	10.59	33.149	D 25.406	257.7	0.216	5.14	81.4	12.0	1.19	13.1	0.03	0.00	0.09	0.10	70	213
75 ISL	10.17 D	10.16	33.193	D 25.514	247.4	0.228	4.96	77.9	13.3	1.26	14.4	0.03	0.00	0.07	0.08	75	
85	9.73	9.72	33.291	D 25.664	233.3	0.252	4.56	71.0	16.5	1.43	17.4	0.02	0.00	0.06	0.06	85	212
100 ISL	9.57 D	9.56	33.531	D 25.879	213.3	0.286	4.20	65.2	23.2	1.77	22.8	0.02	0.00	0.04	0.07	100	
101	9.58	9.57	33.524	D 25.871	214.0	0.288	4.17	64.8	23.7	1.79	23.1	0.02	0.00	0.04	0.07	101	211
121	9.08	9.07	33.742	D 26.123	190.4	0.329	3.13	48.1	29.7	2.04	27.4	0.01	0.00	0.02	0.07	122	210
125 ISL	8.95 D	8.94	33.750	D 26.150	187.9	0.336	3.14	48.1	30.1	2.03	27.3	0.01	0.00	0.02	0.07	126	
140	8.59	8.58	33.782	D 26.231	180.4	0.364	3.32	50.5	30.9	2.00	26.9	0.01	0.00	0.02	0.06	141	209
150 ISL	8.43 D	8.41	33.841	D 26.302	173.9	0.381	3.19	48.4	32.4	2.03	27.4	0.01	0.00	0.02	0.06	151	
170	8.24	8.22	33.917	D 26.390	165.8	0.415	2.69	40.6	36.0	2.16	29.1	0.01	0.00	0.01	0.05	171	208
200	8.31	8.29	34.090	D 26.516	154.5	0.463	1.74	26.4	41.2	2.40	31.3	0.01	0.00	0.00	0.03	201	207
230	7.87	7.85	34.112	D 26.599	146.9	0.509	1.50	22.5	46.4	2.54	33.1	0.00	0.09			231	206
250 ISL	7.73 D	7.71	34.136	D 26.639	143.5	0.538	1.38	20.6	49.6	2.60	34.1	0.00	0.06			251	
271	7.38	7.35	34.126	D 26.681	139.6	0.567	1.25	18.5	52.8	2.66	35.0	0.00	0.00			273	205
300 ISL	7.15 D	7.12	34.163	D 26.743	134.1	0.607	1.02	15.0	57.0	2.77	36.0	0.00	0.00			302	
319	7.04	7.01	34.173	D 26.766	132.2	0.632	0.88	12.9	59.6	2.84	36.6	0.00	0.00			321</td	

RV NEW HORIZON

CALCOFI CRUISE 1008

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		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	16.65	16.65	33.044	24.096	380.9	0.000	5.69	102.1	2.4	0.35	0.1	0.00	0.00	0.15	0.03	0	
1	16.65	16.65	33.044	24.096	380.9	0.004	5.69	102.1	2.4	0.35	0.1	0.00	0.00	0.15	0.03	1 224	
10	16.65	16.65	33.045	24.097	381.1	0.038	5.71	102.5	2.4	0.35	0.0	0.00	0.00	0.16	0.03	10 223	
20 ISL	16.49	16.49	33.039	24.130	378.3	0.076	5.70	102.0	2.4	0.34	0.0	0.00	0.00	0.19	0.05	20	
21	16.53	16.53	33.044	24.124	378.9	0.080	5.70	102.1	2.4	0.34	0.0	0.00	0.00	0.19	0.05	21 222	
30	16.27	16.27	33.032	24.175	374.3	0.114	5.75	102.4	2.4	0.34	0.0	0.00	0.00	0.26	0.08	30 221	
40	15.23	15.23	33.080	24.444	348.9	0.150	5.95	103.8	2.4	0.34	0.0	0.00	0.00	0.32	0.19	40 220	
50	14.61	14.60	33.076	24.575	336.7	0.184	5.83	100.5	2.7	0.41	0.1	0.14	0.07	0.51	0.42	50 219	
60	14.13	14.12	33.074	24.675	327.5	0.217	5.74	98.0	2.9	0.45	0.8	0.61	0.00	0.35	0.31	60 218	
70	13.71	13.70	33.075	24.762	319.4	0.250	5.63	95.3	3.2	0.49	2.0	0.06	0.00	0.23	0.25	70 217	
75 ISL	13.24	13.23	33.096	24.873	308.9	0.265	5.56	93.2	3.9	0.57	3.4	0.05	0.00	0.20	0.24	75	
86	12.54	12.53	33.181	25.077	289.7	0.298	5.36	88.6	6.6	0.82	7.4	0.02	0.00	0.16	0.20	86 216	
99	11.62	11.61	33.290	25.335	265.3	0.334	4.97	80.6	11.2	1.17	13.0	0.02	0.00	0.13	0.10	99 215	
100 ISL	11.37	11.36	33.326	25.408	258.3	0.337	4.94	79.7	11.5	1.19	13.3	0.02	0.00	0.12	0.10	100	
121	10.34	10.33	33.440	25.679	232.9	0.389	4.28	67.6	17.4	1.52	18.8	0.01	0.00	0.02	0.04	122 214	
125 ISL	9.98	9.97	33.487	25.777	223.6	0.398	4.12	64.5	18.5	1.58	19.8	0.01	0.00	0.02	0.04	126	
140	9.66	9.64	33.607	25.924	209.9	0.430	3.51	54.6	22.7	1.79	23.1	0.00	0.00	0.01	0.03	141 213	
150 ISL	9.16	9.16	33.690	26.070	196.1	0.451	3.17	48.8	25.3	1.90	24.8	0.00	0.00	0.01	0.03	151	
171	9.08	9.06	33.855	26.212	183.0	0.490	2.72	41.9	29.7	2.03	27.1	0.00	0.00	0.00	0.03	172 212	
200	8.48	8.46	33.946	26.377	167.7	0.541	2.85	43.3	32.4	2.02	27.7	0.00	0.00	0.00	0.01	201 211	
230	7.96	7.94	33.966	26.471	159.1	0.590	3.32	49.8	34.6	1.93	26.6	0.00	0.00	0.00	0.00	231 210	
250 ISL	7.65	7.63	33.980	26.528	153.9	0.622	2.93	43.7	39.1	2.08	28.7	0.00	0.00	0.00	0.00	251	
271	7.43	7.40	34.011	26.584	148.9	0.653	2.33	34.6	44.5	2.30	31.6	0.00	0.00	0.00	0.00	273 209	
300 ISL	7.09	7.06	34.023	26.641	143.7	0.696	1.90	28.0	50.2	2.47	33.9	0.00	0.00	0.00	0.00	302	
321	6.88	6.85	34.039	26.682	140.0	0.726	1.67	24.5	54.0	2.56	35.2	0.00	0.00	0.00	0.00	323 208	
381	6.21	6.18	34.069	26.795	129.7	0.806	1.21	17.4	65.1	2.79	38.2	0.00	0.00	0.00	0.00	383 207	
400 ISL	6.03	6.00	34.093	26.837	125.9	0.831	1.12	16.1	68.0	2.84	38.9	0.00	0.00	0.00	0.00	403	
440	5.70	5.66	34.092	26.877	122.2	0.880	0.96	13.7	73.6	2.94	40.0	0.00	0.00	0.00	0.00	443 206	
500 ISL	5.50	5.46	34.170	26.964	114.7	0.951	0.62	8.8	82.0	3.08	41.4	0.00	0.00	0.00	0.00	503	
516	5.38	5.34	34.179	26.985	112.7	0.970	0.53	7.5	84.2	3.12	41.7	0.00	0.00	0.00	0.00	519 205	
600 CSL	5.02	4.97	34.231	27.069	105.3	1.061	0.33	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	604 200	
700 CSL	4.63	4.57	34.310	27.176	95.8	1.162	0.22	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	705 200	
800 CSL	4.31	4.25	34.377	27.265	87.9	1.254	0.24	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	806 200	
900 CSL	4.07	4.00	34.436	27.338	81.6	1.338	0.34	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	907 200	
1000 CSL	3.80	3.73	34.464	27.388	77.2	1.418	0.46	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1008 200	
1100 CSL	3.50	3.42	34.492	27.440	72.4	1.493	0.60	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1109 200	
1200 CSL	3.25	3.16	34.517	27.484	68.4	1.563	0.75	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1211 200	
1300 CSL	3.08	2.99	34.534	27.514	65.8	1.630	0.86	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1312 200	
1400 CSL	2.91	2.81	34.550	27.543	63.3	1.695	0.98	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1413 200	
1500 CSL	2.77	2.66	34.561	27.565	61.4	1.758	1.08	14.3	149.3	3.16	43.8	0.00	0.00	0.00	0.00	1516 204	
1501	2.77	2.66	34.561	27.565	61.4	1.758	1.08	14.3	149.3	3.16	43.8	0.00	0.00	0.00	0.00	1516 204	
1600 CSL	2.62	2.51	34.571	27.586	59.5	1.817	1.20	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1616 200	
1800 CSL	2.32	2.19	34.600	27.636	54.8	1.932	1.50	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1819 200	
2000 CSL	2.13	1.99	34.617	27.666	52.1	2.039	1.74	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2022 200	
2200 CSL	1.97	1.81	34.633	27.692	49.8	2.141	1.99	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2225 200	
2400 CSL	1.85	1.68	34.641	27.709	48.5	2.239	2.14	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2429 200	
2503	1.80	1.62	34.646	27.717	47.8	2.288	2.19	28.3	172.3	2.88	40.8	0.00	0.00	0.00	0.00	2534 203	
2600 CSL	1.75	1.56	34.650	27.725	47.2	2.335	2.28	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2633 200	
2800 CSL	1.68	1.47	34.657	27.737	46.4	2.428	2.47	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2837 200	
3000 CSL	1.62	1.40	34.663	27.747	45.8	2.520	2.56	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3041 200	
3200 CSL	1.58	1.34	34.667	27.755	45.6	2.612	2.71	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3245 200	
3400 CSL	1.55	1.29	34.671	27.761	45.4	2.703	2.83	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3449 200	
3503	1.53	1.26	34.674	27.766	45.2	2.840	2.88	36.9	173.9	2.70	38.9	0.00	0.00	0.00	0.00	3555 201	
3504	1.53	1.26	34.678	27.769	44.9	2.840	2.89	37.0	173.8	2.72	38.8	0.00	0.00	0.00	0.00	3556 202	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	17.85	17.85	33.271	23.986	391.4	0.000	5.52	101.6	2.4	0.28	0.0	0.00	0.00	0.10	0.02	0	
2	17.85	17.85	33.271	23.986	391.5	0.008	5.52	101.6	2.4	0.28	0.0	0.00	0.00	0.10	0.02	2 220	
10	17.81	17.81	33.277	2													

RV NEW HORIZON CALCOFI CRUISE 1008 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	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	uM/l	ug/l	ug/l	db		
0 ISL	14.47	14.47	33.614	25.018	293.1	0.000	6.40	110.4	1.4	0.30	0.4	0.08	0.26	6.77	1.74	0	
1	14.47	14.47	33.614	25.018	293.1	0.003	6.40	110.4	1.4	0.30	0.4	0.08	0.26	6.77	1.74	1	204
5	14.45	14.45	33.614	25.022	292.8	0.015	6.38	110.0	1.4	0.30	0.5	0.08	0.26	7.45	1.91	5	203
10	14.31	14.31	33.613	25.052	290.2	0.029	6.23	107.1	2.0	0.36	1.2	0.11	0.38	8.90	2.22	10	202
15	13.78	13.78	33.609	25.159	280.1	0.043	5.64	95.9	5.0	0.61	3.4	0.23	1.15	8.51	2.93	15	201

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

RV NEW HORIZON CALCOFI CRUISE 1008 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	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	uM/l	ug/l	ug/l	db		
0 ISL	14.69	14.69	33.619	24.975	297.1	0.000	6.37	110.3	0.2	0.17	0.0	0.02	0.00	7.10	0.74	0	
2 A	14.69	14.69	33.619	24.975	297.2	0.006	6.37	110.3	0.2	0.17	0.0	0.02	0.00	7.10	0.74	2	224
10	14.63	14.63	33.615	24.985	296.5	0.030	6.28	108.7	0.5	0.19	0.2	0.04	0.07	7.86	0.77	10	223
20	11.91	11.91	33.619	25.535	244.4	0.057	3.79	62.0	14.1	1.45	14.4	0.44	1.96	0.91	0.54	20	222
30	10.83	10.83	33.633	25.742	224.9	0.080	3.25	51.9	20.1	1.74	20.5	0.44	0.43	0.25	0.29	30	221
40	10.54	10.54	33.700	25.846	215.3	0.102	2.88	45.7	22.9	1.88	22.5	0.32	0.25	0.26	0.40	40	220
50	10.17	10.16	33.727	25.931	207.4	0.123	2.85	44.9	23.6	1.89	23.3	0.09	0.00	0.19	0.27	50	219
61	9.97	9.96	33.776	26.003	200.7	0.146	2.72	42.7	25.3	1.91	24.5	0.04	0.00	0.25	0.30	61	218
70	9.81	9.80	33.887	26.116	190.1	0.163	2.37	37.1	28.5	2.05	25.8	0.07	0.25	0.29	0.35	70	217
75 ISL	9.74 D	9.73	33.919	D 26.153	186.8	0.173	2.26	35.3	29.5	2.10	26.2	0.06	0.20	0.28	0.32	75	
85	9.65	9.64	33.965	26.204	182.1	0.191	2.13	33.2	30.7	2.15	26.8	0.04	0.00	0.22	0.25	85	216
100	9.53	9.52	34.002	26.253	177.8	0.218	2.04	31.7	31.7	2.14	27.5	0.03	0.00	0.15	0.25	101	215
120	9.48	9.47	34.022	26.277	175.9	0.254	1.94	30.2	32.5	2.19	27.6	0.03	0.00	0.09	0.20	121	214
125 ISL	9.46 D	9.45	34.046	D 26.300	173.9	0.262	1.92	29.8	32.9	2.21	27.7	0.03	0.00	0.09	0.20	126	
140	9.38	9.36	34.068	26.330	171.3	0.288	1.85	28.7	34.3	2.26	28.2	0.03	0.00	0.08	0.19	141	213
150 ISL	9.36 D	9.34	34.077	D 26.341	170.5	0.305	1.74	27.0	35.1	2.30	28.5	0.03	0.00	0.06	0.19	151	
170	9.34	9.32	34.116	26.375	167.7	0.339	1.52	23.6	36.5	2.37	29.1	0.04	0.00	0.04	0.18	171	212
200	9.19	9.17	34.143	26.421	163.9	0.389	1.42	21.9	38.2	2.40	29.8	0.02	0.00	0.06	0.18	201	211
230	9.01	8.99	34.168	26.469	159.8	0.437	1.33	20.5	40.3	2.46	30.5	0.04	0.33		231	210	
250 ISL	8.93 D	8.90	34.211	D 26.516	155.8	0.469	1.13	17.4	43.3	2.57	31.4	0.03	0.21		252		
271	8.67	8.64	34.204	26.552	152.7	0.501	0.89	13.6	47.0	2.69	32.5	0.01	0.00		273	209	
300 ISL	8.27 D	8.24	34.201	D 26.611	147.4	0.545	0.71	10.7	51.6	2.69	33.9	0.01	0.00		302		
320	8.00	7.97	34.192	26.644	144.4	0.574	0.62	9.3	54.9	2.69	34.7	0.01	0.00		322	208	
380	7.40	7.36	34.214	26.749	135.1	0.658	0.44	6.5	65.4	3.04	35.0	0.01	0.00		383	207	
400 ISL	7.26 D	7.22	34.226	D 26.779	132.5	0.685	0.39	5.8	69.4	3.06	34.7	0.01	0.00		403		
441	6.88	6.84	34.235	26.839	127.2	0.738	0.26	3.8	79.3	3.13	34.1	0.01	0.00		444	206	
481	6.67	6.63	34.246	26.876	124.0	0.788	0.09	1.3	92.6	3.42	29.7	0.00	0.00		484	205	
500 ISL	6.57 D	6.52	34.248	D 26.891	122.8	0.812	0.07	1.0	97.6	3.55	28.3	0.00	0.00		504		
515	6.56	6.51	34.245	26.890	123.1	0.830	0.06	0.9	101.0	3.65	27.3	0.00	0.00		519	204	
540	6.55	6.50	34.247	26.893	123.2	0.861	0.03	0.4	105.8	3.80	25.7	0.01	0.00		544	203	
563	6.55	6.50	34.248	26.894	123.4	0.889	0.02	0.3	107.0	3.90	25.0	0.03	0.17		567	202	
568	6.55	6.50	34.251	26.897	123.3	0.895	0.02	0.3	107.3	3.89	24.9	0.04	0.22		572	201	

A) SANTA BARBARA BASIN STATION.
D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; CRUISE CORRECTED 1° 02;

RV NEW HORIZON CALCOFI CRUISE 1008 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	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	mL/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	14.78	14.78	33.585	24.929	301.5	0.000	5.45	94.6	6.7	0.50	2.7	0.19	1.03	3.74	1.20	0	
2	14.78	14.78	33.585	24.930	301.6	0.006	5.45	94.6	6.7	0.50	2.7	0.19	1.03	3.74	1.20	2	205
5	14.49	14.49	33.578	24.986	296.2	0.015	5.27	90.9	7.0	0.57	3.3	0.21	1.21	5.51	1.48	5	204
10	13.53	13.53	33.588	25.194	276.6	0.029	5.68	96.1	4.8	0.45	2.9	0.15	0.53	7.75	1.45	10	203
10	13.54	13.54	33.588	25.192	276.8	0.029	4.46	74.0	10.0	1.01	8.8	0.34	1.78	6.96	1.75	19	201

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

RV NEW HORIZON CALCOFI CRUISE 1008 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	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	mL/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	15.44	15.44	33.590	24.789	314.8	0.000	6.56	115.4	0.8	0.20	0.1	0.02	0.00	4.79	0.65	0	

RV NEW HORIZON

CALCOFI CRUISE 1008

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	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	15.53	15.53	33.602	24.779	315.8	0.000	6.59	116.1	0.3	0.16	0.0	0.01	0.00	3.91	0.41	0		
2	15.53	15.53	33.602	24.779	315.9	0.006	6.59	116.1	0.3	0.16	0.0	0.01	0.00	3.91	0.41	2	212	
10	15.44	15.44	33.601	24.798	314.3	0.032	6.59	115.9	0.3	0.16	0.0	0.01	0.00	3.90	0.51	10	210	
10	15.50	15.50	33.600	24.784	315.6	0.032											10	211
20	14.50	14.50	33.595	24.998	295.6	0.062	5.89	101.6	2.5	0.44	2.7	0.10	0.44	7.33	0.65	20	209	
30	12.36	12.36	33.615	25.446	253.1	0.090	4.26	70.3	12.5	1.19	12.3	0.27	1.10	1.23	0.67	30	208	
40	11.38	11.38	33.680	25.680	231.0	0.114	3.52	56.9	19.2	1.55	17.6	0.23	0.71	0.53	0.57	40	207	
50	10.55	10.54	33.739	25.875	212.8	0.136	2.93	46.6	24.4	1.84	21.8	0.23	0.40	0.26	0.46	50	206	
60	10.06	10.05	33.771	25.984	202.6	0.157	2.66	41.8	24.4	1.94	24.4	0.02	0.00	0.11	0.19	60	205	
70	9.83	9.82	33.906	26.128	189.1	0.176	2.42	37.9	28.0	2.04	25.7	0.04	0.00	0.08	0.16	70	204	
75 ISL	9.73 D	9.72	33.967 D	26.192	183.0	0.186	2.32	36.3	29.0	2.08	26.2	0.04	0.00	0.07	0.15	75		
85	9.66	9.65	33.988	26.221	180.6	0.204	2.14	33.4	30.4	2.14	26.9	0.03	0.00	0.05	0.15	85	203	
100	9.47	9.46	34.046	26.297	173.6	0.230	1.97	30.6	32.8	2.22	27.7	0.03	0.00	0.04	0.13	101	202	
125 ISL	9.35 D	9.34	34.081 D	26.345	169.6	0.273	1.85	28.7	34.5	2.27	28.2	0.03	0.00	0.04	0.18	126		
126	9.35	9.34	34.081	26.345	169.6	0.275	1.85	28.7	34.6	2.27	28.2	0.03	0.00	0.04	0.18	127	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	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	15.26	15.26	33.535	24.787	315.1	0.000	6.14	107.5	2.9	0.43	1.4	0.07	0.22	3.68	0.18	0		
2	15.26	15.26	33.535	24.787	315.1	0.006	6.14	107.5	2.9	0.43	1.4	0.07	0.22	3.68	0.18	2	211	
10	15.27	15.27	33.534	24.784	315.6	0.032	6.14	107.6	2.7	0.41	1.3	0.06	0.25	3.49	0.09	10	209	
10	15.27	15.27	33.534	24.784	315.6	0.032											10	210
20	14.68	14.68	33.546	24.922	302.8	0.062	5.91	102.3	3.8	0.53	2.8	0.10	0.34	3.53	0.58	20	208	
30	14.17	14.17	33.552	25.034	292.4	0.092	5.63	96.5	5.1	0.63	4.5	0.14	0.51	3.43	0.45	30	207	
40	13.53	13.52	33.553	25.167	280.0	0.121	5.22	88.3	6.8	0.81	6.7	0.20	0.75	2.25	0.43	40	206	
50	11.97	11.96	33.608	25.515	247.0	0.147	4.19	68.6	14.4	1.30	14.0	0.25	0.57	0.96	0.40	50	205	
60	11.74	11.73	33.637	25.581	241.0	0.172	4.00	65.2	16.2	1.38	15.3	0.23	0.63	0.95	0.60	60	204	
75 ISL	10.01 D	10.00	33.895 D	26.089	192.9	0.204	2.60	40.9	27.9	1.97	23.9	0.14	0.20	0.32	0.42	75		
76	10.04	10.03	33.882	26.074	194.3	0.206	2.51	39.5	28.6	2.01	24.4	0.13	0.17	0.28	0.40	76	203	
84	10.05	10.04	33.893	26.081	193.8	0.222	2.50	39.3	29.0	2.01	24.5	0.13	0.20	0.28	0.44	84	202	
95	10.08	10.07	33.880	26.066	195.5	0.243	2.54	40.0	28.5	1.99	24.2	0.14	0.23	0.33	0.40	95	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	15.70	15.70	33.528	24.684	324.9	0.000	5.81	102.7	2.2	0.44	2.1	0.10	0.07	1.33	0.42	0	
2	15.70	15.70	33.528	24.684	324.9	0.006	5.81	102.7	2.2	0.44	2.1	0.10	0.07	1.33	0.42	2	223
6	15.22	15.22	33.527	24.789	315.0	0.019	5.78	101.1	2.6	0.48	2.8	0.11	0.09	1.57	0.46	6	222
10 ISL	14.64 D	14.64	33.540 D	24.925	302.2	0.032	5.74	99.3	3.4	0.54	3.6	0.12	0.15	2.62	0.39	10	
12	14.57	14.57	33.537	24.938	301.1	0.038	5.71	98.6	3.8	0.58	4.1	0.13	0.17	3.09	0.37	12	220
12	14.57	14.57	33.536	24.937	301.1	0.038										12	221
19	14.15	14.15	33.539	25.028	292.7	0.058	5.49	94.0	5.2	0.70	5.7	0.15	0.14	2.33	0.82	19	219
20 ISL	14.02 D	14.02	33.545 D	25.060	289.6	0.061	5.45	93.1	5.4	0.71	5.9	0.16	0.14	2.29	0.80	20	
23	13.76	13.76	33.536	25.107	285.3	0.070	5.28	89.7	6.5	0.78	7.1	0.17	0.12	2.18	0.70	23	218
30 ISL	11.21 D	11.21	33.578 D	25.632	235.4	0.088	4.18	67.3	14.1	1.31	15.3	0.18	0.06	1.24	0.57	30	
33	10.92	10.92	33.591	25.694	229.5	0.095	3.67	58.7	17.7	1.56	19.1	0.18	0.04	0.79	0.52	33	217
42	10.31	10.31	33.671	25.863	213.7	0.115	3.10	49.0	22.0	1.78	22.5	0.05	0.00	0.26	0.33	42	216
50	10.15	10.14	33.721	25.929	207.5	0.132	2.88	45.4	23.7	1.87	23.6	0.04	0.00	0.13	0.26	50	215
60	10.01	10.00	33.786	26.004	200.6	0.152	2.67	41.9	25.6	1.95	24.7	0.03	0.00	0.09	0.19	60	214
70	9.78	9.77	33.864	26.104	191.4	0.172	2.44	38.1	28.0	2.04	25.8	0.03	0.05	0.04	0.14	70	213
75 ISL	9.66 D	9.65	33.884 D	26.139	188.1	0.181	2.47	38.5	28.7	2.04	26.1	0.03	0.04	0.04	0.14	75	
85	9.43	9.42	33.888	26.180	184.4	0.200	2.56	39.7	29.8	2.05	26.5	0.02	0.00	0.03	0.13	85	212
99	9.31	9.30	33.941	26.241	178.8	0.226	2.36	36.5	31.4	2.13	27.4	0.01	0.00	0.03	0.13	100	211
100 ISL	9.33 D	9.32	33.954 D	26.248	178.2	0.227	2.34	36.2	31.5	2.14	27.4	0.01	0.00	0.03	0.13	101	
119	9.35	9.34	34.034	26.308	172.9	0.261	1.99	30.8	33.6	2.24	28.0	0.02	0.00	0.02	0.11	120	210
125 ISL	9.30 D	9.29	34.061 D	26.337													

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP	
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db			
0 ISL	15.13	15.13	33.555	24.830	310.9	0.000	6.13	107.1	0.1	0.20	0.0	0.01	0.00	3.36	0.25	0		
2	15.13	15.13	33.555	24.831	311.0	0.006	6.13	107.1	0.1	0.20	0.0	0.01	0.00	3.36	0.25	2	221	
10	15.13	15.13	33.546	24.824	311.8	0.031	6.14	107.3	0.0	0.18	0.0	0.01	0.00	3.57	0.34	10	219	
10	15.13	15.13	33.555	24.831	311.2	0.031											10	220
20	14.57	14.57	33.581	24.972	298.0	0.062	5.43	93.8	2.2	0.55	4.0	0.14	0.81	3.04	0.61	20	218	
30	13.75	13.75	33.607	25.164	280.0	0.090	4.92	83.6	5.5	0.88	7.9	0.25	1.29	0.88	0.51	30	217	
40	13.24	13.23	33.631	25.286	268.6	0.118	4.62	77.7	7.5	1.06	10.3	0.29	1.41	0.49	0.39	40	216	
50	11.69	11.68	33.674	25.619	237.1	0.143	3.90	63.5	14.9	1.45	16.7	0.32	0.71	0.40	0.41	50	215	
60	10.05	10.04	33.775	25.989	202.1	0.165	2.99	47.0	24.9	1.86	24.1	0.09	0.00	0.15	0.25	60	214	
70	9.95	9.94	33.784	26.013	200.0	0.185	2.94	46.1	25.5	1.89	24.4	0.07	0.00	0.15	0.21	70	213	
75 ISL	9.64 D	9.63	33.852 D	26.117	190.1	0.195	2.87	44.7	26.3	1.93	24.8	0.06	0.00	0.12	0.18	75		
86	9.56	9.55	33.860	26.137	188.5	0.216	2.65	41.2	28.6	2.02	26.1	0.04	0.00	0.05	0.13	86	212	
100	9.23	9.22	33.942	26.255	177.5	0.241	2.36	36.5	32.2	2.12	27.7	0.02	0.00	0.02	0.12	101	211	
120	8.99	8.98	33.991	26.332	170.6	0.276	2.22	34.1	33.9	2.18	28.5	0.02	0.00	0.01	0.08	121	210	
125 ISL	8.98 D	8.97	33.999 D	26.340	169.9	0.285	2.19	33.7	34.5	2.20	28.7	0.02	0.00	0.01	0.08	126		
141	8.76	8.75	34.036	26.404	164.1	0.312	2.09	32.0	36.7	2.25	29.3	0.01	0.00	0.01	0.09	142	209	
150 ISL	8.61 D	8.59	34.054 D	26.441	160.7	0.326	2.03	30.9	37.6	2.27	29.7	0.01	0.00	0.01	0.10	151		
171	8.50	8.48	34.058	26.462	159.1	0.360	1.89	28.7	39.7	2.32	30.6	0.01	0.00	0.01	0.11	172	208	
200 ISL	8.18 D	8.16	34.110 D	26.551	151.1	0.405	1.64	24.8	44.0	2.45	32.0	0.01	0.00	0.01	0.05	201		
201	8.18	8.16	34.105	26.547	151.5	0.406	1.63	24.6	44.1	2.45	32.0	0.01	0.00	0.01	0.05	202	207	
230	8.05	8.03	34.151	26.603	146.6	0.449	1.43	21.5	46.3	2.53	32.7	0.03	0.00			231	206	
250 ISL	8.00 D	7.97	34.182 D	26.635	144.0	0.479	1.29	19.4	47.8	2.58	33.1	0.04	0.00			252		
270	7.95	7.92	34.191	26.650	142.9	0.507	1.15	17.3	49.4	2.64	33.5	0.06	0.00			272	205	
300 ISL	7.76 D	7.73	34.215 D	26.697	138.9	0.549	0.95	14.2	52.4	2.73	34.3	0.15	0.00			302		
320	7.68	7.65	34.223	26.715	137.5	0.577	0.84	12.5	54.4	2.79	34.9	0.20	0.00			322	204	
380	7.31	7.27	34.235	26.778	132.2	0.658	0.70	10.4	59.4	2.87	36.3	0.08	0.00			383	203	
400 ISL	7.08 D	7.04	34.251 D	26.823	128.1	0.684	0.65	9.6	62.1	2.91	36.8	0.05	0.00			403		
440	6.81	6.77	34.263	26.870	124.1	0.735	0.54	7.9	67.8	3.00	37.9	0.00	0.00			443	202	
500 ISL	6.50 D	6.45	34.294 D	26.936	118.5	0.807	0.39	5.7	74.5	3.08	39.0	0.00	0.00			504		
516	6.35	6.30	34.300	26.961	116.2	0.826	0.35	5.1	76.3	3.10	39.3	0.00	0.00			520	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	15.86	15.86	33.060	24.288	362.6	0.000	5.92	104.6	2.2	0.36	0.0	0.01	0.00	0.34	0.07	0	
2	15.86	15.86	33.060	24.288	362.6	0.007	5.92	104.6	2.2	0.36	0.0	0.01	0.00	0.34	0.07	2	221
10	15.84	15.84	33.062	24.294	362.3	0.036	5.93	104.8	2.2	0.36	0.0	0.01	0.00	0.36	0.07	10	219
10	15.84	15.84	33.059	24.292	362.5	0.036										10	220
20	15.64	15.64	33.063	24.340	358.2	0.072	6.03	106.1	2.1	0.38	0.3	0.03	0.05	0.62	0.11	20	218
30 ISL	13.88 D	13.88	33.080 D	24.730	321.3	0.106	6.32	107.3	5.8	0.60	3.4	0.15	0.06	0.82	0.16	30	
31	13.89	13.89	33.086	24.733	321.1	0.109	6.34	107.7	6.2	0.62	3.7	0.16	0.06	0.83	0.17	31	217
40	13.15	13.14	33.059	24.862	309.0	0.138	6.17	103.2	7.1	0.68	4.8	0.26	0.07	0.68	0.23	40	216
50	12.11	12.10	33.065	25.068	289.6	0.168	5.95	97.4	8.4	0.86	7.3	0.42	0.22	0.62	0.22	50	215
61	11.41	11.40	33.103	25.227	274.6	0.199	5.53	89.2	10.1	1.05	10.8	0.22	0.00	0.38	0.19	61	214
71	10.55	10.54	33.227	25.476	251.1	0.225	5.15	81.6	14.9	1.32	15.6	0.04	0.00	0.19	0.15	71	213
75 ISL	10.34 D	10.33	33.274 D	25.549	244.2	0.235	4.98	78.5	15.7	1.38	16.7	0.03	0.00	0.15	0.13	75	
85	10.20	10.19	33.394	25.666	233.2	0.259	4.53	71.3	17.2	1.49	18.8	0.01	0.00	0.08	0.08	85	212
100	9.52	9.51	33.548	25.900	211.3	0.292	3.81	59.1	21.6	1.71	22.4	0.01	0.00	0.01	0.05	100	211
121	9.32	9.31	33.807	26.135	189.3	0.334	2.84	43.9	27.4	1.98	26.5	0.00	0.00	0.01	0.04	122	210
125 ISL	9.16 D	9.15	33.828 D	26.177	185.4	0.342	2.77	42.7	28.3	2.01	27.0	0.00	0.00	0.01	0.04	126	
140	8.89	8.88	33.916	26.289	175.0	0.369	2.60	39.9	31.2	2.09	28.4	0.00	0.00	0.00	0.04	141	209
150 ISL	8.85 D	8.83	33.951 D	26.323	172.0	0.386	2.44	37.4	32.8	2.13	29.1	0.00	0.00	0.00	0.04	151	
171	8.67	8.65	34.022	26.407	164.4	0.421	2.14	32.7	35.5	2.19	30.0	0.00	0.00	0.01	0.04	172	208
200	8.25	8.23	34.042	26.487	157.1	0.468	2.00	30.2	38.5	2.28	30.9	0.00	0.00	0.00	0.03	201	207
231	7.82	7.80	34.051	26.559	150.8	0.516	2.02	30.2	42.4	2.33	31.6	0.01	0.00			232	206
250 ISL	7.50 D	7.48	34.067 D	26.618	145.4	0.544	1.87	27.8	46.1	2.41	32.9	0.01	0.00			251	
270	7.15	7.12	34.057	26.659	141.6	0.573	1.65	24.3	50.2	2.51	34.5	0.00	0.00			272	205
300 ISL	6.89 D	6.86	34.089 D	26.720	136.1	0.614	1.36	19.9	55.1	2.64	36.0	0.00	0.00			302	
320	6.73	6.70	34.100	26.751	133.4	0.641	1.18	17.2	58.0	2.72	36.7	0.00	0.00			322	204
381	6.36	6.33	34.171	26.856	124.1	0.720	0.77	11.1	66.2	2.94	38.6	0.00	0.00				

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	db		
0 ISL	16.05	16.05	33.125	24.295	361.9	0.000	5.97	106.0	0.8	0.39	0.0	0.01	0.07	0.73	0.10	0	
2	16.05	16.05	33.125	24.295	362.0	0.007	5.97	106.0	0.8	0.39	0.0	0.01	0.07	0.73	0.10	2	221
10	15.99	15.99	33.151	24.329	359.0	0.036	5.95	105.5	0.8	0.39	0.0	0.01	0.06	0.69	0.09	10	219
10	16.00	16.00	33.158	24.332	358.7	0.036										10	220
20 ISL	15.26 D	15.26	33.228 D	24.551	338.1	0.071	6.10	106.6	1.8	0.47	1.2	0.07	0.13	0.75	0.13	20	
21	15.24	15.24	33.238	24.563	337.0	0.074	6.11	106.8	1.9	0.49	1.3	0.08	0.14	0.76	0.13	21	218
30 ISL	13.69 D	13.69	33.200 D	24.862	308.8	0.103	6.06	102.6	6.4	0.75	5.2	0.22	0.20	0.90	0.25	30	
31	13.63	13.63	33.203	24.876	307.4	0.106	6.05	102.3	7.0	0.78	5.7	0.24	0.21	0.91	0.26	31	217
41	12.50	12.49	33.272	25.154	281.2	0.136	5.78	95.5	11.9	1.03	9.4	0.32	0.67	0.54	0.30	41	216
50	11.21	11.20	33.219	25.353	262.4	0.160	5.38	86.4	13.2	1.18	12.4	0.53	0.39	0.25	0.18	50	215
61	10.21	10.20	33.322	25.608	238.3	0.188	4.83	76.0	17.6	1.45	17.9	0.04	0.04	0.21	0.14	61	214
71	10.10	10.09	33.496	25.763	233.8	0.211	4.29	67.4	19.9	1.62	20.7	0.03	0.00	0.08	0.09	71	213
75 ISL	9.85 D	9.84	33.541 D	25.840	216.5	0.220	4.11	64.2	20.9	1.68	21.6	0.03	0.00	0.09	0.10	75	
85	9.52	9.51	33.579	25.924	208.7	0.241	3.72	57.7	23.7	1.80	23.5	0.03	0.00	0.10	0.12	85	212
100	9.23	9.22	33.698	26.064	195.6	0.271	3.15	48.6	28.1	1.98	26.5	0.02	0.00	0.05	0.10	100	211
120	8.95	8.94	33.845	26.224	180.8	0.309	2.55	39.1	32.2	2.14	28.9	0.01	0.00	0.04	0.09	121	210
125 ISL	8.94 D	8.93	33.878 D	26.251	178.3	0.318	2.44	37.4	32.9	2.17	29.3	0.01	0.00	0.03	0.09	126	
141	8.78	8.77	33.945	26.329	171.2	0.346	2.18	33.3	34.6	2.22	30.1	0.01	0.00	0.02	0.09	142	209
150 ISL	8.59 D	8.57	33.969 D	26.378	166.7	0.361	2.15	32.7	35.7	2.23	30.4	0.01	0.02	0.02	0.09	151	
171	8.23	8.21	34.006	26.462	159.0	0.395	2.09	31.6	38.4	2.26	31.0	0.02	0.06	0.02	0.07	172	208
200 ISL	7.94 D	7.92	34.030 D	26.524	153.5	0.441	1.91	28.7	42.0	2.35	32.1	0.01	0.00	0.01	0.05	201	
201	7.94	7.92	34.033	26.526	153.3	0.442	1.90	28.5	42.1	2.35	32.1	0.01	0.00	0.01	0.05	202	207
231	7.76	7.74	34.080	26.590	147.8	0.487	1.67	25.0	46.0	2.45	32.9	0.01	0.00		232	206	
250 ISL	7.53 D	7.51	34.100 D	26.639	143.3	0.515	1.48	22.0	49.3	2.54	33.9	0.01	0.00		251		
271	7.33	7.30	34.114	26.679	139.8	0.545	1.27	18.8	52.9	2.63	35.0	0.01	0.00		273	205	
300 ISL	7.07 D	7.04	34.129 D	26.727	135.6	0.585	1.11	16.3	56.8	2.72	36.1	0.01	0.00		302		
321	6.89	6.86	34.132	26.754	133.2	0.613	1.02	15.0	59.3	2.77	36.8	0.01	0.00		323	204	
381	6.58	6.55	34.202	26.852	124.7	0.690	0.64	9.3	66.8	2.94	38.2	0.01	0.00		383	203	
400 ISL	6.49 D	6.45	34.214 D	26.873	122.9	0.714	0.60	8.7	69.3	2.97	38.7	0.01	0.00		403		
441	6.03	5.99	34.199	26.921	118.5	0.763	0.55	7.9	74.6	3.03	39.7	0.01	0.00		444	202	
500 ISL	5.67 D	5.63	34.240 D	26.999	111.6	0.831	0.38	5.4	82.2	3.12	41.0	0.00	0.00		503		
516	5.60	5.56	34.256	27.020	109.7	0.849	0.33	4.7	84.2	3.15	41.3	0.00	0.00		520	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 83.3 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	SVA	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	ug/l	ug/l	db		
0 ISL	16.95	16.95	33.184	24.134	377.3	0.000	5.62	101.6	2.4	0.32	0.1	0.00	0.00	0.11	0.03	0	
2	16.95	16.95	33.184	24.134	377.4	0.008	5.62	101.6	2.4	0.32	0.1	0.00	0.00	0.11	0.03	2	224
10	16.95	16.95	33.182	24.132	377.7	0.038	5.61	101.4	2.4	0.32	0.0	0.00	0.00	0.12	0.03	10	222
10	16.95	16.95	33.185	24.135	377.5	0.038										10	223
17	16.95	16.95	33.182	24.133	377.9	0.064	5.60	101.2	2.4	0.32	0.0	0.00	0.00	0.12	0.03	17	221
20 ISL	16.95 D	16.95	33.185 D	24.134	378.0	0.076	5.60	101.2	2.4	0.32	0.0	0.00	0.00	0.12	0.03	20	
27	16.95	16.95	33.181	24.132	378.3	0.102	5.61	101.4	2.4	0.32	0.0	0.00	0.00	0.14	0.03	27	220
30 ISL	16.94 D	16.94	33.183 D	24.136	378.0	0.113	5.63	101.7	2.4	0.32	0.0	0.00	0.00	0.16	0.04	30	
37	16.70	16.69	33.178	24.189	373.3	0.140	5.66	101.8	2.4	0.31	0.0	0.00	0.00	0.19	0.05	37	219
45	15.47	15.46	33.180	24.469	346.8	0.168	5.96	104.6	2.5	0.28	0.0	0.00	0.00	0.20	0.06	45	218
50 ISL	15.35 D	15.34	33.246 D	24.546	339.5	0.186	5.96	104.4	2.5	0.27	0.0	0.00	0.00	0.21	0.05	50	
55	15.25	15.24	33.245	24.567	337.6	0.203	5.96	104.2	2.4	0.26	0.0	0.00	0.00	0.21	0.05	55	217
63	15.17	15.16	33.290	24.620	332.9	0.229	5.91	103.2	2.5	0.25	0.0	0.00	0.00	0.21	0.07	63	216
70	14.86	14.85	33.301	24.696	325.8	0.252	5.85	101.5	2.6	0.26	0.0	0.00	0.00	0.19	0.10	70	215
75 ISL	14.69 D	14.68	33.332 D	24.756	320.2	0.269	5.83	100.8	2.6	0.25	0.0	0.00	0.00	0.21	0.14	75	
80	14.54	14.53	33.316	24.776	318.5	0.285	5.82	100.3	2.7	0.25	0.0	0.00	0.00	0.25	0.18	80	214
90	13.89	13.88	33.280	24.884	308.4	0.316	5.74	97.6	3.1	0.30	0.2	0.10	0.00	0.31	0.16	90	213
100	13.41	13.40	33.266	24.971	300.3	0.346	5.64	94.9	3.6	0.37	1.1	0.15	0.00	0.25	0.17	100	212
112	11.88	11.87	33.205	25.221	276.5	0.381	5.40	88.0	6.1	0.66	5.7	0.03	0.00	0.13	0.11	112	211
125	10.98	10.96	33.210	25.388	260.7	0.416	5.25	83.9	8.3	0.84	8.8	0.01	0.00	0.09	0.09	126	210
146	10.34	10.32	33.507	25.732	228.4	0.467	3.79	59.8	19.0	1.59	20.3	0.00	0.00	0.01	0.03	147	209
150 ISL	10.23 D	10.21	33.624 D	25.842	218.0	0.476	3.58	56.4	20.3	1.66	21.4	0.00	0.00	0.01	0.03	151	
170	9.91	9.89	33.745	25.991	204.3	0.518	2.84	44.5	25.0	1.88	24.5	0.00	0.00	0.00	0.02	171	208
200 ISL	9.52 D	9.50	33.880 D	26.161	188.6	0.577	2.49	38.7	29.0	2.03	26.9	0.					

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 83.3 100.0

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	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	17.85	17.85	33.284	23.996	390.5	0.000	5.52	101.6	2.3	0.31	0.0	0.00	0.00	0.08	0.02	0	
2	17.85	17.85	33.284	23.996	390.5	0.008	5.52	101.6	2.3	0.31	0.0	0.00	0.00	0.08	0.02	2	221
10	17.85	17.85	33.282	23.995	390.9	0.039	5.53	101.8	2.3	0.30	0.0	0.00	0.00	0.09	0.02	10	219
10	17.85	17.85	33.282	23.995	390.9	0.039										10	220
20 ISL	17.86	17.86	33.281	D 23.992	391.5	0.078	5.52	101.6	2.3	0.30	0.0	0.00	0.00	0.09	0.02	20	
25	17.86	17.86	33.282	23.993	391.6	0.098	5.52	101.6	2.3	0.30	0.0	0.00	0.00	0.09	0.02	25	218
30 ISL	17.86	17.85	33.281	D 23.992	391.8	0.117	5.52	101.6	2.3	0.30	0.0	0.00	0.00	0.09	0.02	30	
40	17.86	17.85	33.282	23.993	392.0	0.157	5.52	101.6	2.3	0.29	0.0	0.00	0.00	0.09	0.02	40	217
50	17.14	17.13	33.223	24.121	380.2	0.195	5.73	103.9	2.3	0.29	0.0	0.00	0.00	0.12	0.03	50	216
62	16.83	16.82	33.224	24.195	373.5	0.240	5.74	103.5	2.3	0.29	0.0	0.00	0.00	0.14	0.04	62	215
75	15.97	15.96	33.177	24.356	358.5	0.288	5.83	103.3	2.3	0.31	0.0	0.00	0.00	0.18	0.06	75	214
87	15.23	15.22	33.145	24.496	345.4	0.330	5.85	102.1	2.5	0.31	0.0	0.00	0.00	0.25	0.14	87	213
100	14.81	14.80	33.133	24.578	337.9	0.375	5.81	100.6	2.6	0.33	0.0	0.00	0.04	0.25	0.21	100	212
112	14.16	14.14	33.162	24.738	322.9	0.414	5.69	97.2	3.0	0.41	0.3	0.18	0.05	0.23	0.19	112	211
125	13.05	13.03	33.204	24.996	298.5	0.455	5.45	91.0	4.5	0.58	3.3	0.07	0.00	0.16	0.14	125	210
140	11.90	11.88	33.183	25.201	279.1	0.498	5.28	86.0	6.7	0.77	6.8	0.01	0.00	0.11	0.10	141	209
150 ISL	10.98	D 10.96	33.204	D 25.384	261.7	0.525	5.13	82.0	8.5	0.91	9.3	0.01	0.00	0.08	0.08	151	
170	10.08	10.06	33.318	25.629	238.6	0.575	4.73	74.2	13.2	1.20	14.3	0.01	0.00	0.02	0.04	171	208
200	9.25	9.23	33.658	26.031	200.8	0.641	3.85	59.4	22.7	1.64	21.9	0.00	0.00	0.00	0.02	201	207
230	9.02	9.00	33.835	26.207	184.6	0.699	3.40	52.2	26.9	1.79	24.4	0.00	0.00			231	206
250 ISL	8.74	D 8.71	33.948	D 26.340	172.3	0.734	3.15	48.1	30.0	1.88	25.9	0.00	0.00			251	
271	8.47	8.44	33.976	26.404	166.5	0.770	2.90	44.0	33.6	1.98	27.4	0.00	0.00			272	205
300 ISL	8.00	D 7.97	34.035	D 26.521	155.7	0.817	2.46	37.0	39.0	2.16	29.7	0.00	0.00			302	
321	7.81	7.78	34.042	26.554	152.8	0.849	2.14	32.0	43.2	2.29	31.4	0.00	0.00			323	204
381	6.95	6.91	34.089	26.713	138.1	0.936	1.40	20.5	56.7	2.65	35.8	0.00	0.00			383	203
400 ISL	6.75	D 6.71	34.100	D 26.749	134.8	0.962	1.23	18.0	60.3	2.73	36.8	0.00	0.00			402	
440	6.31	6.27	34.116	26.820	128.3	1.015	0.95	13.7	67.0	2.87	38.6	0.00	0.00			443	202
500 ISL	5.93	D 5.89	34.162	D 26.905	120.7	1.090	0.78	11.2	75.6	3.00	40.2	0.00	0.00			503	
516	5.69	5.65	34.154	26.928	118.4	1.109	0.73	10.4	77.9	3.04	40.6	0.00	0.00			519	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.06	18.06	33.310	23.965	393.4	0.000	5.50	101.6	2.3	0.29	0.1	0.00	0.00	0.08	0.01	0	
2	18.06	18.06	33.310	23.965	393.5	0.008	5.50	101.6	2.3	0.29	0.1	0.00	0.00	0.08	0.01	2	221
10	18.07	18.07	33.310	23.963	394.0	0.039	5.50	101.6	2.3	0.29	0.0	0.00	0.00	0.08	0.02	10	219
10	18.07	18.07	33.310	23.963	394.0	0.039										10	220
20 ISL	18.07	D 18.07	33.307	D 23.961	394.5	0.079	5.49	101.5	2.2	0.29	0.0	0.00	0.00	0.08	0.01	20	
25	18.07	18.07	33.311	23.964	394.4	0.099	5.49	101.5	2.2	0.29	0.0	0.00	0.00	0.09	0.01	25	218
30 ISL	18.07	D 18.06	33.309	D 23.963	394.7	0.118	5.56	102.7	2.2	0.29	0.0	0.00	0.00	0.10	0.01	30	
41	17.18	17.17	33.228	24.115	380.5	0.161	5.71	103.7	2.3	0.30	0.0	0.00	0.00	0.13	0.03	41	217
50	16.81	16.80	33.225	24.200	372.7	0.195	5.74	103.5	2.3	0.30	0.0	0.00	0.00	0.15	0.04	50	216
62	16.34	16.33	33.207	24.295	363.9	0.239	5.79	103.4	2.3	0.31	0.0	0.00	0.00	0.18	0.06	62	215
75	15.64	15.63	33.190	24.440	350.5	0.285	5.82	102.5	2.3	0.31	0.0	0.00	0.00	0.25	0.14	75	214
87	15.29	15.28	33.171	24.503	344.8	0.327	5.80	101.4	2.3	0.32	0.0	0.00	0.00	0.24	0.24	87	213
100	14.55	14.54	33.154	24.649	331.1	0.371	5.72	98.5	2.6	0.37	0.1	0.04	0.05	0.21	0.25	100	212
113	13.27	13.25	33.203	24.951	302.5	0.412	5.51	92.4	4.0	0.53	2.3	0.17	0.05	0.14	0.20	113	211
125	12.34	12.32	33.210	25.138	284.8	0.447	5.33	87.7	5.7	0.68	5.3	0.02	0.05	0.10	0.15	125	210
140	11.73	11.71	33.231	25.269	272.6	0.489	5.17	84.0	7.1	0.80	7.6	0.01	0.00	0.09	0.14	141	209
150 ISL	11.24	D 11.22	33.235	D 25.362	263.9	0.516	5.06	81.3	8.5	0.91	9.5	0.01	0.00	0.08	0.12	151	
170	10.38	10.36	33.303	25.566	244.6	0.567	4.75	75.0	12.4	1.16	13.6	0.00	0.00	0.04	0.06	171	208
199	9.58	9.56	33.583	25.919	211.5	0.633	4.02	62.4	20.0	1.54	20.0	0.00	0.00	0.00	0.02	200	207
200 ISL	9.54	D 9.52	33.596	D 25.936	209.9	0.635	4.00	62.1	20.2	1.55	20.2	0.00	0.00			201	
230	8.96	8.94	33.836	26.217	183.6	0.694	3.44	52.8	27.0	1.80	24.5	0.00	0.00			231	206
250 ISL	8.67	D 8.64	33.923	D 26.331	173.1	0.730	3.15	48.0	30.7	1.91	26.2	0.00	0.00			251	
270	8.35	8.32	33.978	26.423	164.6	0.764	2.89	43.8	34.3	2.00	27.6	0.00	0.00			271	205
300 ISL	7.89	D 7.86	34.008	D 26.516	156.1	0.812	2.45	36.7	40.1	2.18	30.2	0.00	0.00			302	
320	7.66	7.63	34.026	26.563	151.8	0.843	2.17	32.4	44.0	2.31	31.8	0.00	0.00			322	204
380	6.95	6.91	34.084	26.709	138.4	0.930	1.42	20.8	55.6	2.63	35.7	0.00	0.00			382	203
400 ISL	6.74	D 6.70	34.093	D 26.745	135.2	0.957	1.30	19.0	59.0	2.70	36.7	0.00	0.00		</td		

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 85.4 35.8

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
34 0.5 N	118 49.6 W	06/08/10	1520	UTC	24 m	100	04 kn	260	02 06	2	1011.3 mb	16.6 C	14.9 C	8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	um/l	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	15.63	15.63	33.503	24.680	325.2	0.000	6.47	114.1	2.1	0.29	0.1	0.03	0.15	4.05	1.00	0	
2	15.63	15.63	33.503	24.680	325.3	0.007	6.47	114.1	2.1	0.29	0.1	0.03	0.15	4.05	1.00	2	204
5	15.00	15.00	33.480	24.801	313.8	0.016	6.27	109.2	2.8	0.34	0.2	0.04	0.17	6.07	1.03	5	203
10	14.72	14.72	33.473	24.856	308.8	0.032	5.99	103.7	3.3	0.38	0.7	0.07	0.13	6.93	1.07	10	202
20	12.83	12.83	33.489	25.257	270.8	0.061	4.88	81.3	7.0	0.89	6.8	0.29	1.22	2.74	1.15	20	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 33.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
33 52.7 N	118 29.3 W	06/08/10	1224	UTC	65 m	140	07 kn	200	01 05	2	1009.8 mb	16.2 C	14.9 C	8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	um/l	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	17.15	17.15	33.495	24.325	359.1	0.000	6.48	117.8	0.7	0.22	0.0	0.01	0.00	0.72	0.18	0	
1	17.15	17.15	33.495	24.325	359.1	0.004	6.48	117.8	0.7	0.22	0.0	0.01	0.00	0.72	0.18	1	209
5	17.05	17.05	33.495	24.349	357.0	0.018	6.49	117.7	0.9	0.22	0.0	0.00	0.00	0.74	0.17	5	208
10	15.32	15.32	33.463	24.718	321.9	0.035	6.82	119.5	1.5	0.24	0.0	0.01	0.00	0.98	0.33	10	207
15	13.39	13.39	33.467	25.129	283.0	0.050	5.74	96.7	5.4	0.65	4.6	0.24	0.22	3.81	0.99	15	206
20	11.95	11.95	33.455	25.400	257.2	0.064	4.55	74.4	9.9	1.16	11.4	0.52	1.27	1.80	0.60	20	205
30	11.21	11.21	33.467	25.545	243.6	0.089	3.92	63.1	15.0	1.46	16.3	0.55	1.73	0.68	0.38	30	204
40	10.73	10.73	33.556	25.700	229.1	0.112	3.08	49.1	20.4	1.78	22.3	0.69	0.42	0.16	0.30	40	203
50 ISL	10.38 D	10.37	33.623 D	25.813	218.5	0.135	3.00	47.5	22.2	1.82	22.9	0.28	0.01	0.25	0.35	50	
51	10.38	10.37	33.629	25.818	218.1	0.137	2.99	47.3	22.3	1.82	23.0	0.24	0.00	0.26	0.36	51	202
60	10.30	10.29	33.667	25.862	214.2	0.156	2.68	42.3	25.6	1.92	23.2	0.31	0.00	0.15	0.68	60	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 35.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
33 49.5 N	118 37.6 W	06/08/10	1739	UTC	624 m	260	02 kn	250	01 05	2	1011.7 mb	16.5 C	15.1 C	08m	8/8	ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	um/l	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	16.39	16.39	33.455	24.471	345.1	0.000	6.54	117.1	2.2	0.31	0.0	0.00	0.07	1.12	0.26	0	
1	16.39	16.39	33.455	24.471	345.1	0.003	6.54	117.1	2.2	0.31	0.0	0.00	0.07	1.12	0.26	1	224
5	16.32	16.32	33.461	24.492	343.3	0.017	6.55	117.1	2.2	0.31	0.0	0.00	0.06	1.22	0.32	5	223
10	15.61	15.61	33.457	24.650	328.4	0.034	6.72	118.5	1.9	0.30	0.0	0.01	0.04	2.06	0.57	10	221
11	15.58	15.58	33.457	24.656	327.8	0.037										11	222
16	13.71	13.71	33.452	25.052	290.3	0.053	6.41	108.7	2.6	0.37	0.3	0.03	0.06	1.93	0.48	16	220
20 ISL	12.03 D	12.03	33.406 D	25.347	262.3	0.064	5.24	85.8	8.0	0.93	7.8	0.34	0.13	1.26	0.54	20	
21	12.01	12.01	33.412	25.355	261.5	0.066	4.93	80.7	9.5	1.08	9.9	0.42	0.15	1.08	0.56	21	219
29	11.27	11.27	33.452	25.523	245.7	0.087	4.31	69.4	13.3	1.33	14.6	0.37	0.05	0.62	0.39	29	218
30 ISL	11.20 D	11.20	33.463 D	25.544	243.7	0.089	4.23	68.0	13.8	1.36	15.1	0.34	0.05	0.58	0.38	30	
40	10.80	10.80	33.528	25.666	232.3	0.113	3.63	57.9	17.5	1.58	19.1	0.04	0.04	0.29	0.34	40	216
50	10.56	10.55	33.547	25.723	227.1	0.136	3.59	57.0	18.5	1.62	19.8	0.04	0.04	0.29	0.23	50	215
60	10.22	10.21	33.671	25.879	212.6	0.158	2.97	46.8	22.6	1.84	23.0	0.02	0.04	0.18	0.24	60	214
71	10.17	10.16	33.715	25.922	208.7	0.181	2.79	44.0	23.7	1.90	23.9	0.01	0.00	0.09	0.12	71	213
75 ISL	10.01 D	10.00	33.791 D	26.008	200.6	0.189	2.71	42.6	24.5	1.94	24.3	0.01	0.00	0.06	0.12	75	
85	9.91	9.90	33.856	26.076	194.3	0.209	2.52	39.5	26.7	2.02	25.1	0.01	0.00	0.02	0.11	85	212
100 ISL	9.80 D	9.79	33.916 D	26.141	188.4	0.238	2.40	37.5	28.1	2.07	25.8	0.01	0.00	0.01	0.09	101	
101	9.80	9.79	33.917	26.142	188.4	0.240	2.39	37.4	28.2	2.07	25.8	0.01	0.00	0.01	0.09	102	211
120	9.68	9.67	34.002	26.229	180.5	0.275	2.22	34.7	30.2	2.13	26.4	0.01	0.00	0.01	0.09	121	210
125 ISL	9.69 D	9.68	34.045 D	26.261	177.6	0.284	2.14	33.4	31.0	2.16	26.7	0.01	0.00	0.01	0.09	126	
140	9.46	9.44	34.079	26.326	171.7	0.310	1.91	29.7	33.4	2.25	27.8	0.00	0.00	0.01	0.09	141	209
150 ISL	9.30 D	9.28	34.087 D	26.358	168.8	0.327	1.89	29.3	34.4	2.27	28.2	0.00	0.00	0.01	0.09	151	
170	9.10	9.08	34.107	26.406	164.6	0.360	1.86	28.7	36.0	2.30	28.8	0.00	0.00	0.01	0.10	171	208
200 ISL	8.81 D	8.79	34.144 D	26.482	158.0	0.409	1.66	25.4	39.1	2.39	30.0	0.01	0.00	0.01	0.08	201	
201	8.83	8.81	34.145	26.479	158.2	0.410	1.65	25.3	39.2	2.39	30.0	0.01	0.00	0.01	0.08	202	207
231	8.73	8.71	34.200	26.538	153.2	0.457	1.27	19.4	42.5	2.54	31.1	0.06	0.00		232	206	
250 ISL	8.59 D	8.56	34.212 D	26.570	150.5	0.486	1.15	17.5	44.2	2.60	31.6	0.09	0.00		252		
270	8.46	8.43	34.221	26.597	148.2	0.516	1.08	16.4	45.9	2.64	32.1	0.10	0.00		272	205	
300 ISL	8.21 D	8.18	34.234 D	26.646	144.0	0.559	0.99	15.0	48.7	2.70	32.9	0.05	0.00		302		
321	8.04	8.01	34.236	26.673	141.8	0.589	0.94	14.2	50.6	2.73	33.4	0.01	0.00		323	204	
381	7.71	7.67	34.250	26.733	136.9	0.673	0.78	11.7	54.9	2.83	34.6	0.00	0.00		384	20	

RV NEW HORIZON

CALCOFI CRUISE 1008

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	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	17.57	17.57	33.509	24.236	367.6	0.000	6.07	111.2	2.2	0.29	0.0	0.00	0.00	0.53	0.09	0	
1	17.57	17.57	33.509	24.236	367.6	0.004	6.07	111.2	2.2	0.29	0.0	0.00	0.00	0.53	0.09	1	
10	16.77	16.77	33.490	24.411	351.2	0.036	6.29	113.5	2.4	0.35	0.0	0.00	0.07	0.65	0.12	10	
20	14.91	14.91	33.449	24.797	314.7	0.069	6.44	111.9	2.7	0.42	0.6	0.05	0.10	1.46	0.30	20	
30	12.14	12.14	33.474	25.379	259.5	0.098	5.05	82.9	8.5	1.07	10.4	0.45	0.14	1.20	0.47	30	
40	11.18	11.18	33.519	25.591	239.5	0.123	4.22	67.9	14.7	1.40	15.7	0.51	0.00	0.61	0.36	40	
50	10.61	10.60	33.570	25.732	226.3	0.146	3.64	57.8	18.5	1.62	19.4	0.12	0.00	0.36	0.23	50	
61	10.24	10.23	33.663	25.869	213.5	0.170	3.27	51.6	21.4	1.77	21.9	0.03	0.00	0.20	0.17	61	
70	10.06	10.05	33.752	25.969	204.2	0.189	2.96	46.5	24.1	1.87	23.3	0.03	0.00	0.11	0.13	70	
75 ISL	9.95 D	9.94	33.792	D 26.019	199.5	0.199	2.89	45.3	24.7	1.90	23.7	0.03	0.00	0.10	0.13	75	
86	9.91	9.90	33.810	26.040	197.8	0.221	2.76	43.3	25.8	1.96	24.4	0.02	0.00	0.08	0.13	86	
100 ISL	9.61 D	9.60	33.931	D 26.185	184.3	0.248	2.40	37.4	29.1	2.08	26.2	0.01	0.00	0.01	0.07	101	
101	9.60	9.59	33.936	26.190	183.8	0.250	2.37	36.9	29.4	2.09	26.3	0.01	0.00	0.01	0.07	102	
120	9.32	9.31	34.025	26.306	173.2	0.284	2.14	33.1	32.5	2.18	27.5	0.01	0.00	0.01	0.07	121	
125 ISL	9.22 D	9.21	34.028	D 26.324	171.5	0.292	2.12	32.8	32.9	2.19	27.7	0.01	0.00	0.01	0.07	126	
141	9.14	9.12	34.054	26.358	168.6	0.320	2.05	31.6	34.0	2.24	28.1	0.01	0.00	0.01	0.07	142	
150 ISL	9.10 D	9.08	34.085	D 26.389	165.9	0.335	1.93	29.8	35.1	2.29	28.5	0.01	0.00	0.01	0.07	151	
171	9.05	9.03	34.147	26.446	160.9	0.369	1.64	25.3	37.6	2.39	29.4	0.01	0.00	0.01	0.07	172	
200	8.94	8.92	34.181	26.490	157.2	0.415	1.45	22.3	39.7	2.45	30.0	0.01	0.00	0.01	0.09	201	
230	8.43	8.41	34.204	26.588	148.3	0.461	1.20	18.2	45.6	2.61	31.9	0.02	0.00		231	209	
250 ISL	8.30 D	8.27	34.218	D 26.619	145.7	0.490	1.09	16.5	47.7	2.66	32.6	0.02	0.00		252		
270	8.17	8.14	34.222	26.642	143.8	0.519	1.02	15.4	49.2	2.69	33.1	0.02	0.00		272	208	
300 ISL	8.02 D	7.99	34.227	D 26.669	141.8	0.562	0.94	14.2	51.3	2.75	33.7	0.01	0.00		302		
320	7.89	7.86	34.236	26.695	139.5	0.590	0.89	13.4	52.8	2.79	34.1	0.01	0.00		322	207	
380	7.34	7.30	34.252	26.788	131.4	0.671	0.67	9.9	59.7	2.92	35.7	0.01	0.00		383	206	
400 ISL	7.09 D	7.05	34.260	D 26.829	127.6	0.697	0.61	9.0	62.5	2.97	36.3	0.01	0.00		403		
441	6.76	6.72	34.272	26.884	122.8	0.749	0.51	7.5	68.2	3.06	37.6	0.00	0.00		444	205	
500 ISL	6.39 D	6.34	34.306	D 26.960	116.1	0.819	0.38	5.5	73.9	3.13	38.7	0.00	0.00		503		
516	6.35	6.30	34.302	26.962	116.1	0.838	0.35	5.1	75.5	3.15	38.9	0.00	0.00		520	204	
600 ISL	5.84 D	5.79	34.354	D 27.069	106.6	0.931	0.22	3.1	87.9	3.28	39.5	0.00	0.00		604		
607	5.81	5.76	34.362	27.079	105.7	0.939	0.21	3.0	88.9	3.29	39.5	0.00	0.00		611	203	
693	5.55	5.49	34.393	27.136	101.0	1.028	0.17	2.4	95.7	3.35	39.6	0.00	0.00		698	202	
700 ISL	5.53 D	5.47	34.378	D 27.127	102.0	1.035	0.17	2.4	96.2	3.35	39.5	0.00	0.00		705		
735	5.44	5.38	34.391	27.148	100.3	1.070	0.14	2.0	98.9	3.36	39.2	0.01	0.00		741	201	

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

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	17.54	17.54	33.460	24.205	370.5	0.000	5.92	108.4	1.8	0.28	0.0	0.01	0.00	0.38	0.11	0	
2	17.54	17.54	33.460	24.205	370.5	0.007	5.92	108.4	1.8	0.28	0.0	0.01	0.00	0.38	0.11	2	
10	16.43	16.43	33.428	24.442	348.2	0.036	6.21	111.3	2.2	0.30	0.0	0.01	0.00	0.71	0.17	10	
10	16.47	16.47	33.429	24.433	349.1	0.036										10	
20	12.67	12.67	33.367	25.194	276.8	0.067	6.06	100.5	6.3	0.67	4.7	0.12	0.07	1.65	0.43	20	
30	10.96	10.96	33.434	25.564	241.8	0.093	4.39	70.2	14.0	1.33	15.3	0.21	0.00	0.52	0.29	30	
40	10.45	10.45	33.542	25.738	225.5	0.117	3.74	59.2	18.4	1.57	19.4	0.04	0.00	0.29	0.16	40	
50	10.25	10.24	33.634	25.844	215.6	0.139	3.30	52.1	21.0	1.73	21.5	0.03	0.00	0.19	0.17	50	
61	10.06	10.05	33.740	25.960	204.9	0.162	2.86	45.0	23.7	1.87	23.5	0.02	0.00	0.08	0.12	61	
71	9.89	9.88	33.819	26.050	196.5	0.182	2.66	41.7	26.0	1.95	24.7	0.02	0.00	0.03	0.07	71	
75 ISL	9.83 D	9.82	33.890	D 26.116	190.3	0.190	2.56	40.1	26.8	1.99	25.1	0.02	0.00	0.02	0.06	75	
86	9.77	9.76	33.940	26.165	185.9	0.210	2.34	36.6	28.6	2.07	25.9	0.01	0.00	0.01	0.05	86	
100	9.67	9.66	33.975	26.209	182.0	0.236	2.27	35.4	29.7	2.10	26.3	0.01	0.00	0.01	0.05	101	
120	9.18	9.17	33.987	26.299	173.8	0.272	2.32	35.8	32.3	2.13	27.5	0.01	0.00	0.01	0.05	121	
125 ISL	8.91 D	8.90	33.975	D 26.332	170.6	0.280	2.30	35.3	33.1	2.15	27.8	0.01	0.00	0.01	0.05	126	
141	8.80	8.79	34.057	26.414	163.2	0.307	2.16	33.1	35.7	2.21	28.6	0.01	0.00	0.01	0.05	142	
150 ISL	8.87 D	8.85	34.098	D 26.435	161.4	0.322	2.01	30.8	36.7	2.26	28.9	0.01	0.00	0.01	0.05	151	
170	8.92	8.90	34.156	26.473	158.2	0.354	1.68	25.8	38.6	2.36	29.5	0.01	0.00	0.01	0.04	171	
200	8.46	8.44	34.155	26.544	151.9	0.400	1.57	23.9	42.2	2.43	31.0	0.02	0.00	0.00	0.04	201	
230	8.11	8.09	34.179	26.616	145.5	0.445	1.26	19.0	46.9	2.57	32.7	0.02	0.00		231	206	
250 ISL	8.12 D	8.09	34.218	D 26.646	143.0	0.474	1.09	16.4	49.4	2.64	33.4	0.02	0.00		252		
270	7.88	7.85	34.220	26.683	139.7	0.502	0.94	14.1	51.8	2.71	34.0	0.01	0.00		272	205	
300 ISL	7.57 D	7.54	34.237	D 26.742	134.5	0.543	0.77	11.5	55.7	2.80	35.0	0.00	0.00		302		
320	7.44	7.41	34.241	26.764	132.7	0.570	0.69	10.3	58.2	2.85	35.7	0.00	0.00		322	204	
380	7.02	6.98	34.256	26.835	126.6	0.648	0.57	8.4	64.3	2.95	37.0	0					

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 50.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE		
33 19.4 N	119 39.6 W	08/08/10	0330	UTC	82 m	200	11 kn			1010.5 mb	15.0	C 13.3	C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP	
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db			
0 ISL	15.64	15.64	33.573	24.732	320.3	0.000	6.17	108.9	0.7	0.33	0.8	0.09	0.00	2.52	0.42	0		
2	15.64	15.64	33.573	24.732	320.4	0.006	6.17	108.9	0.7	0.33	0.8	0.09	0.00	2.52	0.42	2	210	
5	15.63	15.63	33.571	24.733	320.4	0.016	6.16	108.7	0.7	0.32	0.8	0.08	0.00	2.67	0.49	5	209	
10	15.61	15.61	33.569	24.736	320.2	0.032	6.16	108.7	0.6	0.32	0.8	0.09	0.00	2.62	0.50	10	207	
10	15.59	15.59	33.569	24.740	319.8	0.032											10	208
20 ISL	12.08	D 12.08	33.558	D 25.455	252.0	0.061	4.96	81.4	5.4	1.03	10.2	0.43	0.41	2.48	0.83	20		
21	12.34	12.34	33.567	25.413	256.1	0.063	4.81	79.3	6.2	1.11	11.4	0.46	0.44	2.47	0.86	21	206	
30 ISL	11.29	D 11.29	33.574	D 25.614	237.1	0.085	4.18	67.4	13.9	1.41	16.4	0.37	0.05	1.13	0.64	30		
31	11.29	11.29	33.576	25.616	237.0	0.088	4.13	66.6	14.7	1.43	16.8	0.35	0.00	0.98	0.60	31	205	
40	10.92	10.92	33.616	25.713	227.9	0.109	3.78	60.5	18.0	1.55	18.5	0.28	0.00	0.56	0.44	40	204	
50	10.55	10.54	33.678	25.827	217.3	0.131	3.42	54.3	20.9	1.68	20.4	0.22	0.05	0.49	0.44	50	203	
59	10.19	10.18	33.734	25.933	207.4	0.150	3.06	48.2	23.8	1.82	22.7	0.15	0.05	0.27	0.29	59	202	
71	10.03	10.02	33.752	25.974	203.7	0.175	2.98	46.8	25.1	1.88	23.4	0.13	0.00	0.14	0.35	71	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 55.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE			
33 9.3 N	120 0.6 W	08/08/10	0656	UTC	1202 m	220	10 kn			1012.1 mb	15.2	C 13.5	C						
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP		
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db				
0 ISL	16.51	16.51	33.570	24.532	339.3	0.000	5.85	105.1	1.9	0.33	0.2	0.02	0.08	0.98	0.23	0			
2	16.51	16.51	33.570	24.532	339.4	0.007	5.85	105.1	1.9	0.33	0.2	0.02	0.08	0.98	0.23	2	222		
10	16.52	16.52	33.569	24.529	339.9	0.034	5.86	105.3	1.9	0.32	0.1	0.02	0.07	0.97	0.23	10	220		
10	16.52	16.52	33.578	24.536	339.3	0.034											10	221	
20	16.42	16.42	33.578	24.560	337.4	0.068	5.79	103.8	2.1	0.36	0.6	0.04	0.21	0.90	0.22	20	219		
30	15.13	15.13	33.610	24.874	307.7	0.100	5.29	92.4	5.7	0.69	4.9	0.16	0.49	0.95	0.31	30	218		
41	12.99	12.98	33.659	25.358	261.8	0.131	4.52	75.6	11.3	1.14	11.4	0.33	0.57	0.94	0.37	41	216		
50	11.03	11.02	33.747	25.796	220.3	0.153	3.54	56.8	19.2	1.63	19.5	0.35	0.16	0.55	0.39	50	215		
60	9.93	9.92	33.829	26.051	196.2	0.174	2.79	43.8	26.4	1.97	24.8	0.08	0.04	0.17	0.19	60	214		
70	9.48	9.47	33.895	26.177	184.3	0.193	2.47	38.4	29.9	2.13	27.0	0.02	0.11	0.05	0.15	70	213		
75 ISL	9.14	D 9.13	33.927	D 26.257	176.8	0.202	2.44	37.6	31.0	2.14	27.5	0.02	0.07	0.04	0.14	75			
84	9.14	9.13	33.940	26.268	176.0	0.218	2.38	36.7	32.2	2.17	27.9	0.02	0.00	0.02	0.13	84	212		
100 ISL	8.90	D 8.89	33.954	D 26.317	171.6	0.246	2.38	36.5	33.6	2.20	28.3	0.02	0.13	0.01	0.14	101			
101	8.92	8.91	33.955	26.315	171.8	0.247	2.38	36.5	33.6	2.20	28.3	0.02	0.14	0.01	0.14	102	211		
121	8.77	8.76	33.972	26.352	168.7	0.281	2.39	36.6	33.9	2.23	28.6	0.03	0.00	0.01	0.12	122	210		
125 ISL	8.70	D 8.69	33.991	D 26.378	166.3	0.288	2.32	35.4	34.6	2.25	28.8	0.03	0.00	0.01	0.11	126			
140	8.63	8.62	34.054	26.438	160.8	0.313	1.99	30.4	38.2	2.35	30.0	0.02	0.00	0.01	0.09	141	209		
150 ISL	8.29	D 8.27	34.046	D 26.484	156.6	0.328	1.84	27.8	41.0	2.42	30.9	0.02	0.00	0.01	0.08	151			
170	8.00	7.98	34.113	26.580	147.7	0.359	1.57	23.6	46.0	2.55	32.4	0.04	0.00	0.01	0.06	171	208		
200	7.90	7.88	34.180	26.648	141.8	0.402	1.16	17.4	49.7	2.72	33.6	0.05	0.00	0.01	0.05	201	207		
230	7.75	7.73	34.198	26.684	138.8	0.444	1.02	15.3	52.6	2.79	34.5	0.05	0.00					231	206
250 ISL	7.65	D 7.63	34.212	D 26.710	136.7	0.472	0.94	14.0	53.7	2.83	34.7	0.05	0.00					252	
271	7.59	7.56	34.225	26.729	135.2	0.501	0.87	13.0	54.9	2.88	35.0	0.04	0.00					273	205
300 ISL	7.34	D 7.31	34.234	D 26.772	131.5	0.539	0.76	11.3	58.2	2.94	35.9	0.03	0.09					302	
320	7.18	7.15	34.240	26.800	129.1	0.565	0.69	10.2	60.7	2.98	36.6	0.02	0.14					322	204
380	6.87	6.83	34.258	26.857	124.4	0.641	0.54	7.9	66.6	3.09	37.8	0.02	0.00					383	203
400 ISL	6.76	D 6.72	34.270	D 26.882	122.4	0.666	0.51	7.5	56.0	2.82	35.0	0.02	0.05					403	
440	6.66	6.62	34.278	26.902	121.0	0.715	0.46	D 6.7	38.2	2.37	30.1	0.02	0.16					443	202
500 ISL	6.29	D 6.24	34.307	D 26.974	114.7	0.785	0.33	4.8	70.8	3.09	37.8	0.01	0.03					504	
515	6.18	6.13	34.317	26.996	112.7	0.802	0.30	4.3	79.0	3.27	39.7	0.01	0.00					519	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
32 59.3 N	120 20.9 W	08/08/10	1203	UTC	723 m	270	05 kn			1011.8 mb	14.8	C 13.5	C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	16.19	16.19	33.523	24.569	335.8	0.000	5.84	104.2	1.5	0.31	0.2	0.02	0.25	0.71	0.26	0	
2	16.19	16.19	33.523	24.569	335.8	0.007	5.84	104.2	1.5	0.31	0.2	0.02	0.25	0.71	0.26		

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	db		
0 ISL	15.79	15.79	33.005	24.261	365.1	0.000	5.90	104.1	2.9	0.40	0.5	0.04	0.21	0.37	0.11	0	
2	15.79	15.79	33.005	24.262	365.2	0.007	5.90	104.1	2.9	0.40	0.5	0.04	0.21	0.37	0.11	2	
10 ISL	15.72	D 15.72	33.011 D	24.282	363.5	0.036	5.88	103.6	2.6	0.41	0.5	0.05	0.20	0.37	0.09	10	
12	15.64	15.64	33.032	24.316	360.3	0.044	5.88	103.5	2.5	0.41	0.5	0.05	0.20	0.37	0.08	12	
12	15.64	15.64	33.035	24.318	360.1	0.044										12	
20 ISL	14.01	D 14.01	32.979 D	24.625	331.1	0.071	6.04	102.8	4.0	0.50	1.4	0.25	0.13	0.48	0.22	20	
24	13.15	13.15	32.917	24.751	319.1	0.084	6.13	102.4	5.2	0.56	2.3	0.31	0.11	0.57	0.28	24	
30	13.38	13.38	33.045	24.805	314.2	0.103	6.17	103.7	7.1	0.67	4.3	0.18	0.15	0.73	0.24	30	
37	13.46	13.45	33.178	24.891	306.1	0.125	5.94	100.1	9.7	0.85	6.9	0.26	0.42	0.75	0.39	37	
47	12.24	12.23	33.038	25.022	293.9	0.155	5.67	93.0	7.5	0.84	6.7	0.45	0.14	0.55	0.31	47	
50 ISL	11.85	D 11.84	33.037 D	25.094	287.0	0.164	5.60	91.1	8.1	0.90	7.7	0.37	0.10	0.46	0.27	50	
56	11.43	11.42	33.082	25.207	276.4	0.181	5.47	88.2	10.0	1.04	10.3	0.17	0.07	0.30	0.19	56	
66	10.91	10.90	33.171	25.369	261.1	0.208	5.27	84.1	12.9	1.21	13.4	0.12	0.05	0.19	0.12	66	
75	10.55	10.54	33.227	25.476	251.2	0.231	5.13	81.2	15.2	1.33	15.4	0.05	0.00	0.10	0.10	75	
85	10.13	10.12	33.316	25.617	237.9	0.255	4.89	76.8	17.7	1.46	17.6	0.01	0.00	0.04	0.08	85	
100 ISL	9.65	D 9.64	33.450 D	25.802	220.6	0.289	4.38	68.1	21.2	1.66	20.9	0.01	0.00	0.02	0.06	100	
101	9.70	9.69	33.450	25.794	221.4	0.292	4.34	67.5	21.4	1.67	21.1	0.01	0.00	0.02	0.06	101	
119	9.64	9.63	33.708	26.006	201.7	0.330	3.16	49.2	26.0	1.94	25.2	0.01	0.00	0.02	0.06	120	
125 ISL	9.10	D 9.09	33.715 D	26.099	192.8	0.342	3.08	47.4	27.0	1.96	25.8	0.01	0.00	0.02	0.05	126	
139	9.09	9.07	33.844	26.201	183.4	0.368	2.89	44.5	29.0	1.99	26.4	0.01	0.00	0.01	0.04	140	
150 ISL	8.91	D 8.89	33.908 D	26.280	176.1	0.388	2.84	43.6	30.5	2.01	26.9	0.01	0.00	0.01	0.03	151	
169	8.57	8.55	33.958	26.372	167.6	0.420	2.81	42.8	32.9	2.04	27.6	0.00	0.00	0.00	0.03	170	
200	8.17	8.15	33.998	26.465	159.2	0.471	2.61	39.4	37.1	2.13	29.1	0.00	0.00	0.00	0.02	201	
230	7.84	7.82	34.025	26.535	153.0	0.518	2.26	D 33.8	41.9	2.29	31.1	0.01	0.00			231	
250 ISL	7.68	D 7.66	34.048 D	26.577	149.3	0.548	1.93	28.8	45.5	2.40	32.4	0.01	0.00			251	
269	7.47	7.44	34.079	26.631	144.3	0.576	1.66	24.7	49.1	2.51	35.7	0.00	0.00			271	
300 ISL	7.13	D 7.10	34.090 D	26.668	139.3	0.620	1.39	20.5	55.3	2.65	35.7	0.00	0.00			302	
320	6.72	6.69	34.086	26.741	134.3	0.647	1.25	18.2	59.2	2.73	36.8	0.00	0.00			322	
381	6.12	6.09	34.138	26.861	123.4	0.726	0.90	13.0	69.6	2.93	39.4	0.00	0.00			383	
400 ISL	6.01	D 5.98	34.143 D	26.879	121.9	0.749	0.79	11.3	72.4	2.98	39.9	0.00	0.00			403	
440	5.76	5.72	34.173	26.934	117.0	0.797	0.60	8.6	77.7	3.07	40.7	0.00	0.00			443	
500 ISL	5.57	D 5.53	34.231 D	27.004	111.0	0.865	0.43	6.1	83.2	3.15	41.5	0.00	0.00			503	
519	5.53	5.49	34.257	27.029	108.8	0.886	0.38	5.4	84.9	3.18	41.8	0.00	0.00			523	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	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	ug/l	ug/l	db		
0 ISL	16.03	16.03	33.333	24.460	346.2	0.000	5.95	105.7	0.6	0.37	0.2	0.02	0.23	0.66	0.10	0	
2	16.03	16.03	33.333	24.460	346.3	0.007	5.95	105.7	0.6	0.37	0.2	0.02	0.23	0.66	0.10	2	
10	16.05	16.05	33.335	24.457	346.8	0.035	5.96	105.9	0.7	0.36	0.1	0.02	0.12	0.70	0.10	219	
10	16.04	16.04	33.334	24.459	346.6	0.035										10	
20 ISL	16.00	D 16.00	33.324 D	24.460	346.8	0.069	5.94	105.4	0.9	0.37	0.3	0.03	0.21	0.58	0.09	20	
21	15.91	15.91	33.321	24.478	345.1	0.073	5.94	105.3	0.9	0.37	0.3	0.03	0.23	0.57	0.09	21	
30 ISL	12.86	D 12.86	33.009 D	24.880	307.0	0.102	5.94	98.7	4.5	0.57	3.2	0.21	0.28	0.54	0.17	30	
31	12.86	12.86	33.029 D	24.895	305.6	0.105	5.94	98.7								31	
41	12.44	12.43	33.159	25.078	288.4	0.135	5.68	93.6	9.5	0.90	7.9	0.49	0.35	0.50	0.25	41	
49	11.38	11.37	33.120	25.245	272.6	0.157	5.53	89.1	11.4	1.08	10.8	0.64	0.12	0.31	0.20	49	
50 ISL	11.11	D 11.10	33.144 D	25.312	266.2	0.160	5.50	88.1	11.7	1.10	11.2	0.60	0.11	0.30	0.20	50	
61	10.70	10.69	33.213	25.439	254.4	0.189	5.17	82.1	14.5	1.28	14.9	0.06	0.05	0.19	0.16	61	
70	10.50	10.49	33.302	25.543	244.7	0.211	5.09	80.6	16.9	1.40	16.9	0.03	0.05	0.13	0.11	70	
75 ISL	9.92	D 9.91	33.298 D	25.638	235.7	0.223	4.97	77.7	18.4	1.47	18.0	0.03	0.05	0.10	0.09	75	
85	9.63	9.62	33.393	25.761	224.2	0.246	4.57	71.0	21.4	1.62	20.4	0.02	0.06	0.04	0.06	85	
100	9.43	9.42	33.599	25.954	206.1	0.278	3.65	56.5	25.6	1.87	24.6	0.01	0.04	0.02	0.05	100	
122	9.11	9.10	33.780	26.148	188.1	0.322	2.81	43.3	30.3	2.09	27.9	0.01	0.05	0.02	0.05	123	
125 ISL	9.03	D 9.02	33.811 D	26.185	184.6	0.327	2.74	42.1	30.8	2.11	28.2	0.01	0.05	0.02	0.05	126	
141	8.90	8.88	33.894	26.271	176.8	0.356	2.43	37.3	33.0	2.16	29.1	0.01	0.04	0.02	0.05	142	
150 ISL	8.70	D 8.68	33.911 D	26.315	172.7	0.372	2.27	34.6	34.0	2.19	29.3	0.01	0.03	0.02	0.04	151	
171	8.86	8.84	34.034	26.387	166.4	0.408	2.00	30.7	36.1	2.24	29.6	0.01	0.00	0.01	0.03	172	
200 ISL	8.43	D 8.41	34.066 D	26.479	158.0	0.455	1.89	28.7	39.5	2.33	30.8	0.00	0.00	0.01	0.02	201	
201	8.43	8.41	34.067	26.480	158.0	0.456	1.89	28.7	39.5	2.33	30.8	0.00	0.00	0.01	0.02	202	
230	8.14	8.12	34.108	26.556	151.2	0.501	1.57	23.7	44.3	2.47	32.4	0.00	0.00			231	
250 ISL	7.88	D 7.85	34.121 D	26.605	146.8	0.531	1.39	20.8	47.2	2.55	33.3	0.00	0.00			251	

RV NEW HORIZON

CALCOFI CRUISE 1008

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	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	16.58	16.58	33.149	24.193	371.7	0.000	5.68	101.9	2.4	0.35	0.1	0.00	0.00	0.16	0.05	0	
2	16.58	16.58	33.149	24.193	371.7	0.007	5.68	101.9	2.4	0.35	0.1	0.00	0.00	0.16	0.05	2	
10	16.59	16.59	33.149	24.191	372.2	0.037	5.70	102.3	2.5	0.34	0.0	0.00	0.00	0.14	0.04	10	
10	16.59	16.59	33.149	24.191	372.2	0.037										10	
20	16.59	16.59	33.151	24.193	372.3	0.074	5.70	102.3	2.4	0.34	0.0	0.00	0.00	0.15	0.04	20	
30 ISL	16.50 D	16.50	33.145 D	24.209	371.1	0.112	5.69	101.9	2.4	0.35	0.0	0.00	0.00	0.15	0.04	30	
31	16.51	16.51	33.150	24.211	370.9	0.115	5.69	101.9	2.4	0.35	0.0	0.00	0.00	0.15	0.04	31	
40	16.37	16.36	33.135	24.232	369.2	0.149	5.71	102.0	2.5	0.34	0.0	0.00	0.00	0.24	0.08	40	
50 ISL	15.33 D	15.32	33.109 D	24.445	349.2	0.185	5.84	102.1	2.3	0.36	0.0	0.00	0.00	0.44	0.23	50	
51	15.33	15.32	33.136	24.466	347.2	0.188	5.86	102.5	2.3	0.36	0.0	0.00	0.00	0.46	0.25	51	
60	14.82	14.81	33.050	24.510	343.2	0.219	5.93	102.6	2.7	0.38	0.1	0.01	0.07	0.56	0.46	60	
71	14.07	14.06	33.008	24.636	331.4	0.256	5.85	99.7	4.0	0.50	1.3	0.32	0.28	0.37	0.33	71	
75 ISL	14.01 D	14.00	33.083	24.707	324.8	0.269	5.78	98.4	4.1	0.53	1.8	0.26	0.22	0.30	0.29	75	
85	13.48	13.47	33.094	24.824	313.9	0.301	5.61	94.5	4.3	0.60	3.4	0.03	0.00	0.17	0.20	85	
100 ISL	12.64 D	12.63	33.167 D	25.047	292.9	0.347	5.45	90.2	6.3	0.77	6.3	0.02	0.00	0.10	0.11	100	
101	12.71	12.70	33.164	25.031	294.5	0.350	5.44	90.2	6.5	0.78	6.5	0.02	0.00	0.10	0.11	101	
120	11.49	11.48	33.241	25.321	267.1	0.403	5.08	82.1	10.7	1.09	11.8	0.01	0.00	0.04	0.05	121	
125 ISL	10.98 D	10.96	33.322 D	25.476	252.4	0.416	4.87	77.9	12.2	1.20	13.5	0.01	0.00	0.03	0.04	126	
140	10.44	10.42	33.410	25.639	237.1	0.453	4.29	67.8	16.3	1.47	17.8	0.01	0.00	0.01	0.03	141	
150 ISL	10.02 D	10.00	33.536 D	25.809	221.1	0.476	4.29	67.3	17.8	1.47	18.4	0.01	0.00	0.01	0.03	151	
170	9.30	9.28	33.663	26.027	200.6	0.518	4.28	66.1	20.3	1.48	19.5	0.01	0.00	0.00	0.02	171	
200	8.77	8.75	33.857	26.263	178.6	0.575	3.94	60.2	26.0	1.65	22.5	0.00	0.00	0.00	0.01	207	
231	8.47	8.45	33.935	26.371	168.9	0.629	3.59	54.5	30.1	1.79	24.7	0.00	0.00		232	206	
250 ISL	8.07 D	8.04	33.973 D	26.461	160.5	0.660	3.26	49.1	33.8	1.92	26.6	0.00	0.00		251		
270	7.84	7.81	33.984	26.504	156.7	0.692	2.89	43.3	38.1	2.07	28.6	0.00	0.00		271	205	
300 ISL	7.45 D	7.42	34.001 D	26.573	150.3	0.738	2.51	37.2	43.8	2.24	30.9	0.00	0.00		302		
321	7.24	7.21	34.012	26.612	146.9	0.769	2.26	33.4	47.7	2.35	32.4	0.00	0.00		323	204	
381	6.74	6.70	34.084	26.737	135.6	0.854	1.24	18.1	59.7	2.74	37.0	0.00	0.00		383	203	
400 ISL	6.74 D	6.70	34.139 D	26.781	131.8	0.879	1.03	15.0	62.3	2.79	37.5	0.00	0.00		402		
441	6.65	6.61	34.199	26.841	126.7	0.932	0.70	10.2							444	202	
500 ISL	6.18 D	6.14	34.241 D	26.936	118.1	1.004	0.51	7.4	75.7	3.07	39.9	0.00	0.00		503		
514	6.02	5.97	34.238	26.954	116.4	1.021	0.46	6.6	77.6	3.11	40.2	0.00	0.00		517	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	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	17.64	17.64	33.268	24.034	386.8	0.000	5.55	101.7	2.3	0.30	0.1	0.00	0.00	0.11	0.00	0	
3	17.64	17.64	33.268	24.034	386.9	0.012	5.55	101.7	2.3	0.30	0.1	0.00	0.00	0.11	0.00	3	
10 ISL	17.62	17.62	33.266	24.038	386.8	0.039	5.57	102.0	2.3	0.30	0.0	0.00	0.00	0.08	0.02	10	
20 ISL	17.59 D	17.59	33.263 D	24.043	386.6	0.077	5.54	101.4	2.3	0.29	0.0	0.00	0.00	0.08	0.02	20	
21	17.59	17.59	33.263	24.043	386.6	0.081	5.54	101.4	2.3	0.29	0.0	0.00	0.00	0.08	0.02	21	
30 ISL	17.59 D	17.58	33.263 D	24.044	386.9	0.116	5.54	101.4	2.3	0.29	0.0	0.00	0.00	0.08	0.02	30	
33	17.59	17.58	33.270	24.049	386.5	0.128	5.54	101.4	2.3	0.29	0.0	0.00	0.00	0.08	0.02	33	
45	16.92	16.91	33.249 D	24.192	373.2	0.173	5.73	103.5							45	220	
50 ISL	16.83 D	16.82	33.257 D	24.219	370.8	0.192	5.71	103.0	2.3	0.28	0.0	0.00	0.00	0.11	0.03	50	
56	16.71	16.70	33.269	24.257	367.4	0.214	5.69	102.4	2.3	0.28	0.0	0.00	0.00	0.13	0.04	56	
67	15.88	15.87	33.197	24.391	354.9	0.254	5.83	103.1	2.3	0.30	0.0	0.00	0.00	0.17	0.06	67	
75 ISL	15.54 D	15.53	33.248 D	24.507	344.1	0.282	5.84	102.7	2.3	0.29	0.0	0.00	0.00	0.21	0.09	75	
86	15.37	15.36	33.275	24.565	338.8	0.319	5.86	102.7	2.3	0.27	0.0	0.00	0.00	0.24	0.13	86	
95	14.72	14.71	33.220	24.664	329.6	0.349	5.85	101.1	2.6	0.29	0.0	0.01	0.00	0.23	0.16	95	
100 ISL	14.32 D	14.31	33.220 D	24.749	321.6	0.366	5.76	98.8	2.8	0.34	0.2	0.10	0.00	0.23	0.18	100	
104	14.14	14.13	33.197	24.769	319.8	0.378	5.68	97.0	3.0	0.40	0.4	0.17	0.03	0.23	0.18	104	
113	13.20	13.18	33.175	24.943	303.2	0.406	5.53	92.6	4.0	0.53	2.2	0.19	0.00	0.20	0.14	113	
122	12.94	12.92	33.248	25.052	293.1	0.433	5.48	91.3	4.5	0.54	3.2	0.09	0.00	0.16	0.15	122	
125 ISL	12.12 D	12.10	33.226 D	25.193	279.6	0.442	5.44	89.1	5.0	0.60	4.2	0.06	0.00	0.15	0.14	126	
131	11.78	11.76	33.224	25.255	273.8	0.458	5.35	87.0	6.3	0.73	6.3	0.02	0.00	0.12	0.12	132	
140	11.09	11.07	33.227	25.383	261.6	0.483	5.26	84.3	8.1	0.84	8.5	0.01	0.00	0.09	0.09	141	
150 ISL	10.33 D	10.31	33.248 D	25.532	247.5	0.508	5.12	80.7	10.5	1.01	11.2	0.01	0.00	0.05	0.07	151	
151	10.36	10.34	33.239	25.520	248.7	0.510	5.10	80.4	10.8	1.03	11.5	0.01	0.00	0.05	0.07	152	
160	9.95	9.93	33.319	25.651	236.2	0.532	4.88	76.3	13.4	1.18	14.0	0.00	0.00	0.03	0.04	161	
176	9.43	9.41	33.437	25.829	219.5	0.569	4.17	64.5	19.8	1.58	20.2	0.00	0.00	0.01	0.03	176	
194	9.21	9.19	33.657	26.037	200.1	0.607	3.59	55.3	24.								

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 110.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
31 19.5 N	123 44.9 W	09/08/10	2226	UTC	4000 m	270	12 kn	330	04 07	2	1015.2 mb	18.0 C	15.4 C	23m	8/8	SC	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	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	ug/l	ug/l	db	
0 ISL	17.28	17.28	33.173	24.047	385.5	0.000	5.61	102.0	2.4	0.32	0.0	0.00	0.00	0.14	0.03	0.04	0
2	17.28	17.28	33.173	24.047	385.6	0.008	5.61	102.0	2.4	0.32	0.0	0.00	0.00	0.14	0.03	0.2	222
10	17.26	17.26	33.171	24.051	385.5	0.039	5.62	102.2	2.5	0.32	0.0	0.00	0.00	0.14	0.03	10	220
10	17.26	17.26	33.171	24.051	385.5	0.039											10 221
20 ISL	17.23	17.23	33.169	D 24.057	385.3	0.077	5.61	101.9	2.4	0.32	0.0	0.00	0.00	0.15	0.04	0.25	219
25	17.22	17.22	33.186	D 24.073	384.0	0.096	5.61	101.9	2.4	0.32	0.0	0.00	0.00	0.16	0.04	0.25	219
30 ISL	17.18	17.18	33.187	D 24.083	383.1	0.116	5.63	102.2	2.4	0.32	0.0	0.00	0.00	0.18	0.05	0.30	
40	16.73	16.72	33.177	24.181	374.1	0.153	5.74	103.3	2.4	0.32	0.0	0.00	0.00	0.27	0.08	40	218
50	15.46	15.45	33.089	24.401	353.4	0.190	5.97	104.7	2.5	0.34	0.0	0.00	0.00	0.44	0.22	50	217
62	14.66	14.65	33.051	24.545	339.9	0.231	5.94	102.5	2.6	0.36	0.0	0.01	0.05	0.48	0.44	62	216
75	14.35	14.34	33.087	D 24.639	331.3	0.275	5.92	101.5	2.6	0.33	0.0	0.02	0.15	0.25	0.25	75	215
87	13.94	13.93	33.060	24.704	325.4	0.314	5.90	100.3	2.7	0.33	0.0	0.03	0.11	0.16	0.20	87	214
100	13.54	13.53	33.085	D 24.805	316.1	0.356	5.80	97.8	3.0	0.37	0.1	0.15	0.00	0.12	0.16	100	213
112	13.07	13.05	33.168	24.964	301.2	0.393	5.59	93.4	3.9	0.46	1.4	0.23	0.00	0.10	0.13	112	212
125	11.86	11.84	33.145	D 25.178	280.9	0.431	5.37	87.4	6.6	0.75	6.2	0.02	0.00	0.08	0.12	126	211
140	10.86	10.84	33.210	D 25.410	259.0	0.471	5.12	81.6	10.0	1.00	10.5	0.01	0.00	0.05	0.12	141	210
150 ISL	10.55	D 10.53	33.309	D 25.541	246.6	0.497	5.02	79.5	11.3	1.07	12.0	0.01	0.00	0.04	0.09	151	
171	9.85	9.83	33.462	D 25.780	224.2	0.546	4.71	73.5	14.7	1.22	14.9	0.01	0.00	0.02	0.03	172	209
200	8.99	8.97	33.735	D 26.133	191.0	0.606	3.70	56.8	25.2	1.73	23.0	0.00	0.00	0.00	0.02	201	208
231	8.73	8.71	33.935	D 26.331	172.8	0.663	3.00	45.8	31.1	1.94	26.4	0.00	0.00		232	207	
250 ISL	8.53	D 8.50	33.974	D 26.392	167.2	0.695	2.81	42.7	34.0	2.02	27.6	0.00	0.00		251		
271	8.15	8.12	33.996	D 26.467	160.3	0.729	2.68	40.4	37.0	2.09	28.7	0.00	0.00		272	206	
300 ISL	7.73	D 7.70	34.006	D 26.537	153.9	0.775	2.38	35.5	41.2	2.22	30.4	0.00	0.00		302		
321	7.64	7.61	34.032	D 26.571	151.1	0.807	2.14	31.9	44.5	2.32	31.7	0.00	0.00		323	205	
380	6.907	6.871	34.078	D 26.710	138.3	0.892	1.38	20.2	56.6	2.65	36.0	0.00	0.00		382	203	
400 ISL	6.73	D 6.69	34.101	D 26.752	134.5	0.920	1.20	17.5	60.1	2.73	36.9	0.00	0.00		402		
442	6.35	6.31	34.135	D 26.830	127.4	0.975	0.91	13.2	67.0	2.88	38.5	0.00	0.00		445	202	
500 ISL	5.82	D 5.78	34.172	D 26.926	118.6	1.046	0.63	9.0	76.5	3.03	40.4	0.00	0.00		503		
517	5.74	5.70	34.192	D 26.952	116.3	1.066	0.55	7.8	79.3	3.08	40.9	0.00	0.00		520	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	06/08/10	1128	UTC	28 m	140	04 kn			1009.6 mb	16.4 C	15.3 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	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	ug/l	ug/l	db	
0 ISL	18.02	18.02	33.507	24.125	378.1	0.000	6.57	121.5	1.1	0.18	0.0	0.01	0.00	1.36	0.29	0	
1	18.02	18.02	33.507	24.125	378.2	0.004	6.57	121.5	1.1	0.18	0.0	0.01	0.00	1.36	0.29	1	205
5	16.24	16.24	33.491	24.534	339.4	0.018	6.60	117.8	0.9	0.24	0.0	0.01	0.04	1.62	0.28	5	204
10	14.21	14.21	33.471	24.963	298.6	0.034	6.34	108.7	3.1	0.33	0.6	0.06	0.04	3.01	1.04	10	203
20	11.23	11.23	33.481	D 25.552	242.7	0.061	3.92	63.1	15.6	1.44	16.2	0.61	0.51	0.81	0.57	20	202
23	11.26	11.26	33.480	D 25.546	243.4	0.068	3.90	62.8	15.8	1.49	16.5	0.63	0.63	0.76	0.61	23	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 88.5 30.1

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
33 40.3 N	118 5.1 W	06/08/10	0751	UTC	21 m	200	06 kn			1010.1 mb	16.8 C	15.4 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	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	ug/l	ug/l	db	
0 ISL	15.90	15.90	33.405	24.544	338.2	0.000	6.99	123.9	1.5	0.22	0.0	0.01	0.00	2.90	0.87	0	
1	15.90	15.90	33.405	24.544	338.2	0.003	6.99	123.9	1.5	0.22	0.0	0.01	0.00	2.90	0.87	1	204
5	16.55	16.55	33.382	24.379	354.1	0.017	7.05	126.6	0.8	0.17	0.0	0.02	0.00	2.27	0.59	5	203
10	12.89	12.89	33.433	D 25.202	275.8	0.033	5.52	92.0	5.4	0.82	5.0	0.25	0.39	5.36	1.46	10	202
15	12.65	12.65	33.438	D 25.253	271.1	0.047	5.24	86.9	7.2	0.89	7.0	0.32	0.86	4.16	1.04	15	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA	m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	17.08	17.08	33.437	24.297	361.7	0.000	7.08	128.5	1.2	0.19	0.0	0.00	0.00	0.48	0.09	0	
2	17.08	17.08	33.437	24.297	361.8	0.007	7.08	128.5	1.2	0.19	0.0	0.00	0.00	0.48	0.09	2	208
5	16.53	16.53	33.433	24.422	349.9	0.018	7.16	128.5	1.1	0.18	0.0	0.00	0.00	0.43	0.09	5	207
10	14.24	14.24	33.412	24.911	303.5	0.034	6.90	118.3	1.3	0.32	0.0	0.00	0.00	0.67	0.19	10	206
20	12.02	12.02	33.415	25.355	261.5	0.062	5.65	92.5	3.7	0.82	5.4	0.24	0.06	16.88	1.79	20	205
30	10.99	10.99	33.461	25.580	240.3	0.088	4.01	64.2	15.1	1.45	16.6	0.50	0.00	1.11	0.59	30	204
40	10.40	10.40	33.585	25.780	221.5	0.111	3.10	49.0	22.3	1.88	22.1	0.30	0.79	0.37	0.52	40	203
50	9.99	9.98	33.769	25.994	201.4	0.132	2.68	42.1	25.3	1.96	24.3	0.09	0.00	0.12	0.26	50	202
60	9.94	9.93	33.808	26.033	197.9	0.152	2.55	40.0	26.3	2.02	24.9	0.09	0.00	0.09	0.20	60	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA	m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.25	18.25	33.459	24.032	387.0	0.000	6.26	116.2	1.6	0.26	0.0	0.00	0.09	0.45	0.09	0	
2	18.25	18.25	33.459	24.032	387.1	0.008	6.26	116.2	1.6	0.26	0.0	0.00	0.09	0.45	0.09	2	221
10	16.25	16.25	33.461	24.508	341.9	0.037	6.67	119.1	2.3	0.26	0.0	0.00	0.07	0.88	0.29	10	220
20	13.11	13.11	33.429	25.155	280.5	0.068	6.34	106.2	2.5	0.41	1.1	0.06	0.11	3.39	0.84	20	219
30	11.70	11.70	33.448	25.441	253.5	0.095	4.41	71.7	12.4	1.27	12.6	0.55	0.74	1.61	0.72	30	218
40	10.76	10.76	33.493	25.646	234.3	0.119	3.96	63.1	16.7	1.52	18.1	0.19	0.16	0.41	0.29	40	216
50	10.34	10.33	33.574	25.782	221.5	0.142	3.59	56.7	19.7	1.67	20.4	0.03	0.06	0.20	0.20	50	215
60	10.19	10.18	33.645	25.863	214.0	0.164	3.10	48.8	22.9	1.85	22.6	0.20	0.07	0.17	0.22	60	214
70	9.97	9.96	33.703	25.946	206.3	0.185	3.12	48.9	24.0	1.84	22.9	0.03	0.04	0.25	0.24	70	213
75 ISL	9.60 D	9.59	33.681 D	25.990	202.2	0.195	3.03	47.1	24.8	1.87	23.4	0.03	0.04	0.21	0.20	75	
85	9.77	9.76	33.799	26.055	196.3	0.215	2.84	44.4	26.5	1.94	24.5	0.02	0.04	0.10	0.12	85	212
100	9.39	9.38	33.832	26.143	188.2	0.244	2.82	43.7	29.0	1.99	25.6	0.01	0.00	0.11	0.26	101	211
120	9.86	9.85	34.050 D	26.236	179.9	0.280	2.06	32.3	31.2	2.16	26.3	0.01	0.00	0.10	0.10	121	210
125 ISL	9.80 D	9.79	34.076 D	26.267	177.1	0.289	2.06	32.3	31.7	2.17	26.5	0.01	0.00	0.09	0.09	126	
141	9.43	9.41	34.071 D	26.324	171.9	0.317	2.08	32.3	33.2	2.20	27.2	0.01	0.00	0.05	0.07	142	209
150 ISL	9.43 D	9.41	34.096 D	26.344	170.2	0.333	1.97	30.6	34.0	2.24	27.5	0.01	0.00	0.04	0.07	151	
171	9.44	9.42	34.165	26.397	165.7	0.368	1.67	26.0	35.9	2.35	28.2	0.01	0.00	0.02	0.06	172	208
200 ISL	9.25 D	9.23	34.195 D	26.452	161.0	0.415	1.51	23.4	38.2	2.42	29.1	0.01	0.00	0.01	0.04	201	
201	9.26	9.24	34.190	26.446	161.6	0.417	1.51	23.4	38.3	2.42	29.1	0.01	0.00	0.01	0.04	202	207
231	9.02	8.99	34.215	26.505	156.5	0.465	1.37	21.1	40.8	2.49	29.9	0.01	0.00		232	206	
250 ISL	8.80 D	8.77	34.213 D	26.538	153.6	0.494	1.24	19.0	42.3	2.55	30.5	0.03	0.00		252		
272	8.72	8.69	34.252	26.581	149.9	0.528	1.09	16.7	44.4	2.62	31.2	0.04	0.00		274	205	
300 ISL	8.30 D	8.27	34.246 D	26.642	144.5	0.569	0.98	14.8	48.2	2.70	32.4	0.02	0.00		302		
322	8.05	8.02	34.238	26.673	141.8	0.600	0.91	13.7	51.3	2.75	33.3	0.00	0.00		324	204	
381	7.58	7.54	34.260	26.760	134.3	0.682	0.70	10.4	57.7	2.88	34.8	0.00	0.00		383	203	
400 ISL	7.41 D	7.37	34.255 D	26.780	132.5	0.707	0.66	9.8	59.6	2.91	35.3	0.00	0.00		403		
441	7.08	7.04	34.263	26.833	127.9	0.760	0.59	8.7	63.7	2.98	36.5	0.01	0.00		444	202	
500 ISL	6.56 D	6.51	34.278 D	26.916	120.5	0.834	0.44	6.4	70.9	3.07	38.2	0.00	0.00		503		
516	6.47	6.42	34.281	26.930	119.2	0.853	0.40	5.8	72.8	3.10	38.7	0.00	0.00		520	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA	m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.94	18.94	33.516	23.904	399.2	0.000	5.85	110.1	1.4	0.25	0.0	0.00	0.04	0.39	0.06	0	
2	18.94	18.94	33.516	23.904	399.3	0.008	5.85	110.1	1.4	0.25	0.0	0.00	0.04	0.39	0.06	2	220
10	18.79	18.79	33.516	23.942	396.0	0.040	5.92	111.1	1.6	0.25	0.0	0.00	0.05	0.41	0.08	10	218
10	18.81	18.81	33.516	23.937	396.4	0.040										10	219
20	14.53	14.53	33.462	24.889	306.0	0.075	6.22	107.3	2.7	0.57	3.3	0.19	0.08	1.00	0.20	20	216
30	12.50	12.50	33.395	25.249	271.9	0.104	5.71	94.4	6.6	0.84	7.2	0.30	0.09	1.25	0.39	30	215
40	11.37	11.37	33.399	25.464	251.6	0.130	4.81	77.6	12.0	1.17	12.5	0.25	0.07	0.96	0.47	40	214
50 ISL	10.88 D	10.88	33.447 D	25.587	240.1	0.155	4.35	69.5	14.9	1.34	15.4	0.22	0.01	0.68	0.33	50	
51	10.89	10.88	33.452	25.591	239.7	0.157	4.30	68.7	15.2	1.36	15.7	0.21	0.00	0.65	0.31	51	213
60	10.56	10.55	33.572	25.743	225.5	0.178	3.51	55.7	18.8	1.63	19.9	0.05	0.00	0.43	0.17	60	212
70	10.32	10.31	33.678	25.867	213.9	0.200	3.03	47.9	22.0	1.80	22.3	0.03					

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.71	18.71	33.534	23.975	392.4	0.000	5.90	110.5	1.5	0.23	0.0	0.00	0.07	0.53	0.14	0	
2	18.71	18.71	33.534	23.975	392.5	0.008	5.90	110.5	1.5	0.23	0.0	0.00	0.07	0.53	0.14	2	223
8	18.61	18.61	33.534	24.000	390.3	0.031	5.88	109.9	1.3	0.24	0.0	0.00	0.33	0.57	0.14	8	222
10 ISL	18.21	D 18.21	33.524	D 24.092	381.6	0.039	6.01	111.5	1.5	0.25	0.1	0.00	0.31	0.63	0.17	10	
18	15.68	15.68	33.437	24.619	331.6	0.068	6.45	113.8	2.5	0.36	0.3	0.01	0.24	0.93	0.30	18	221
20 ISL	15.70	D 15.70	33.449	D 24.624	331.2	0.074	6.38	112.7	2.8	0.44	1.4	0.08	0.21	0.97	0.34	20	
27	13.39	13.39	33.434	25.103	285.7	0.096	5.96	100.4	3.8	0.75	5.8	0.37	0.10	1.11	0.42	27	220
30 ISL	13.16	D 13.16	33.436	D 25.151	281.2	0.104	5.82	97.6	4.2	0.82	6.8	0.50	0.09	0.86	0.36	30	
34	13.02	13.02	33.423	25.169	279.6	0.116	5.58	93.3	5.2	0.91	8.3	0.59	0.08	0.51	0.26	34	219
41	11.60	11.59	33.346	25.380	259.6	0.134	4.90	79.4	10.1	1.19	13.1	0.22	0.07	0.36	0.20	41	218
48	11.42	11.41	33.397	25.453	252.8	0.152	4.71	76.1	11.8	1.28	14.7	0.12	0.07	0.21	0.13	48	216
50 ISL	11.03	D 11.02	33.403	D 25.528	245.7	0.157	4.64	74.3	12.7	1.31	15.3	0.09	0.06	0.17	0.12	50	
53	10.76	10.75	33.404	25.577	241.1	0.165	4.52	72.0	14.1	1.36	16.1	0.04	0.04	0.12	0.10	53	215
60	10.40	10.39	33.457	25.681	231.4	0.181	4.29	67.8	16.5	1.46	17.8	0.02	0.05	0.06	0.09	60	214
70	10.04	10.03	33.550	25.815	218.8	0.204	3.96	62.1	19.4	1.61	20.1	0.02	0.05	0.02	0.06	70	213
75 ISL	10.01	D 10.00	33.624	D 25.878	212.9	0.214	3.82	59.9	20.9	1.67	21.1	0.02	0.03	0.02	0.07	75	
85	9.62	9.61	33.680	25.986	202.8	0.235	3.45	53.7	23.7	1.78	22.9	0.01	0.00	0.01	0.09	85	212
100	9.85	9.84	33.902	26.122	190.3	0.265	2.50	39.2	27.4	2.01	25.1	0.01	0.00	0.01	0.08	101	211
120	9.63	9.62	34.028	26.257	177.8	0.302	2.24	34.9	30.5	2.09	26.1	0.01	0.00	0.00	0.06	121	210
125 ISL	9.53	D 9.52	34.054	D 26.294	174.4	0.310	2.18	33.9	31.2	2.11	26.4	0.01	0.00	0.00	0.06	126	
140	9.42	9.40	34.075	26.329	171.4	0.336	2.02	31.4	33.2	2.19	27.3	0.01	0.00	0.01	0.06	141	209
150 ISL	9.32	D 9.30	34.096	D 26.362	168.5	0.353	1.93	29.9	34.2	2.23	27.7	0.01	0.00	0.01	0.08	151	
170	9.22	9.20	34.149	26.420	163.4	0.386	1.76	27.2	36.1	2.31	28.4	0.00	0.00	0.01	0.10	171	208
200 ISL	8.78	D 8.76	34.168	D 26.505	155.7	0.434	1.57	24.0	39.8	2.40	29.8	0.01	0.00	0.00	0.05	201	
201	8.84	8.82	34.170	26.497	156.5	0.436	1.56	23.9	39.9	2.40	29.8	0.01	0.00	0.00	0.05	202	207
231	8.76	8.74	34.219	26.549	152.2	0.482	1.30	19.9	42.6	2.51	30.4	0.01	0.00		232	206	
250 ISL	8.58	D 8.55	34.245	D 26.597	147.9	0.511	1.15	17.5	44.9	2.59	31.3	0.01	0.00		251		
270	8.34	8.31	34.240	26.630	145.0	0.540	1.01	15.3	47.5	2.66	32.4	0.01	0.00		272	205	
300 ISL	7.87	D 7.84	34.238	D 26.699	138.8	0.583	0.89	13.4	51.7	2.74	33.6	0.00	0.00		302		
320	7.69	7.66	34.248	26.734	135.7	0.610	0.83	12.4	54.5	2.79	34.2	0.00	0.00		322	204	
380	7.22	7.18	34.262	26.812	129.0	0.689	0.63	9.3	61.1	2.92	35.9	0.00	0.00		382	203	
400 ISL	7.10	D 7.06	34.261	D 26.828	127.7	0.715	0.58	8.5	63.7	2.97	36.5	0.00	0.00		403		
441	6.67	6.63	34.276	26.899	121.3	0.766	0.48	7.0	68.8	3.05	37.8	0.00	0.00		444	202	
500 ISL	6.33	D 6.28	34.289	D 26.955	116.5	0.836	0.37	5.4	74.6	3.11	38.9	0.00	0.00		503		
518	6.19	6.14	34.300	26.981	114.1	0.857	0.34	4.9	76.4	3.13	39.3	0.00	0.00		522	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	17.74	17.74	33.532	24.212	369.8	0.000	5.70	104.8	1.7	0.27	0.0	0.00	0.12	0.34	0.09	0	
2	17.74	17.74	33.532	24.212	369.9	0.007	5.70	104.8	1.7	0.27	0.0	0.00	0.12	0.34	0.09	2	222
10	17.70	17.70	33.530	24.221	369.3	0.037	5.73	105.3	1.9	0.27	0.0	0.00	0.12	0.37	0.08	10	220
10 ISL	17.71	17.71	33.530	24.218	369.6	0.037										10	221
20	14.43	14.43	33.423	24.880	306.8	0.071	6.46	111.2	3.6	0.42	0.6	0.03	0.26	0.88	0.20	20	219
30	11.65	11.65	33.430	25.436	254.0	0.099	4.84	78.6	11.6	1.13	11.6	0.25	0.15	1.06	0.34	30	218
40	10.93	10.93	33.500	25.621	236.6	0.123	4.09	65.4	15.8	1.44	16.6	0.23	0.42	0.40	A 0.19 A	40	216
50	10.48	10.47	33.589	25.770	222.7	0.146	3.53	55.9	19.2	1.65	20.2	0.04	0.06	0.25	0.17	50	215
60	10.25	10.24	33.649	25.856	214.7	0.168	3.29	51.9	21.2	1.74	21.7	0.03	0.06	0.17	0.13	60	214
71	10.05	10.04	33.774	25.988	202.4	0.191	2.82	44.3	24.6	1.91	23.9	0.02	0.05	0.04	0.09	71	213
75 ISL	9.84	D 9.83	33.772	D 26.022	199.2	0.199	2.91	45.5	25.3	1.90	24.1	0.02	0.05	0.03	0.08	75	
84	9.38	9.37	33.748	26.079	193.9	0.217	3.19	49.4	26.4	1.89	24.4	0.01	0.05	0.01	0.06	84	212
100 ISL	9.44	D 9.43	33.886	D 26.177	184.9	0.247	2.81	43.6	28.6	1.97	25.3	0.01	0.06	0.01	0.06	101	
102	9.43	9.42	33.863	26.161	186.5	0.251	2.74	42.5	28.9	1.98	25.4	0.01	0.06	0.01	0.06	103	223
120	9.01	9.00	33.935	26.285	175.0	0.283	2.73	42.0	30.7	2.04	26.6	0.01	0.01	0.01	0.04	121	210
125 ISL	8.98	D 8.97	33.947	D 26.299	173.8	0.292	2.62	40.3	31.3	2.07	26.9	0.01	0.00	0.01	0.04	126	
140	9.15	9.13	34.064	26.364	168.0	0.318	2.23	34.4	33.4	2.16	27.6	0.01	0.00	0.01	0.05	141	209
150 ISL	9.06	D 9.04	34.078	D 26.390	165.8	0.334	2.09	32.2	34.8	2.21	28.1	0.01	0.00	0.01	0.05	151	
171	8.82	8.80	34.121	26.461	159.3	0.369	1.88	28.8	37.7	2.30	29.1	0.01	0.00	0.01	0.04	172	208
200	8.64	8.62	34.183	26.539	152.5	0.414	1.53	23.4	41.6	2.45	30.5	0.02	0.00	0.00	0.04	201	207
231	8.08	8.06	34.153	26.600	147.0	0.460	1.4										

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA	m/l	PCT	m/l	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	16.67	16.67	33.472	24.420	350.0	0.000	5.97	107.5	1.5	0.33	0.0	0.01	0.00	0.55	0.08	0	
2	16.67	16.67	33.472	24.420	350.1	0.007	5.97	107.5	1.5	0.33	0.0	0.01	0.00	0.55	0.08	2	208
8	16.56	16.56	33.474	24.447	347.7	0.028	5.98	107.4	1.3	0.32	0.0	0.00	0.05	0.57	0.12	8	207
10 ISL	16.55 D	16.55	33.470	D 24.446	347.8	0.035	6.08	109.2	1.1	0.35	0.5	0.01	0.06	1.05	0.17	10	
18	13.41	13.41	33.414	25.083	287.3	0.060	6.46	108.9	0.5	0.49	2.3	0.11	0.11	2.77	0.43	18	206
20 ISL	12.44 D	12.44	33.448	D 25.301	266.6	0.066	6.05	99.9	3.3	0.67	4.9	0.14	1.11	2.63	0.49	20	
27	11.40	11.40	33.480	25.521	245.9	0.084	4.50	72.7	13.2	1.28	13.7	0.24	0.13	1.64	0.63	27	205
30 ISL	11.17 D	11.17	33.483	D 25.565	241.7	0.091	4.28	68.8	14.0	1.37	15.1	0.27	0.11	1.33	0.61	30	
34	11.08	11.08	33.496	25.591	239.3	0.101	4.17	66.9	15.1	1.42	15.9	0.29	0.07	1.01	0.56	34	204
41	10.97	10.97	33.520	25.630	235.8	0.117	4.02	64.4	16.2	1.47	16.8	0.29	0.05	0.79	0.51	41	203
48	10.55	10.54	33.584	25.754	224.2	0.133	3.56	56.5	19.1	1.64	19.7	0.14	0.00	0.38	0.31	48	201
50 CSL	10.49	10.48	33.592	25.770	222.6	0.138	3.54	56.1							50	200	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA	m/l	PCT	m/l	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	16.56	16.56	33.624	24.562	336.5	0.000	5.79	104.1	1.5	0.37	1.2	0.05	0.30	0.49	0.13	0	
2	16.56	16.56	33.624	24.562	336.5	0.007	5.79	104.1	1.5	0.37	1.2	0.05	0.30	0.49	0.13	2	220
10	16.54	16.54	33.625	24.568	336.3	0.034	5.80	104.3	1.4	0.37	1.3	0.05	0.30	0.48	0.13	10	219
20	15.34	15.34	33.597	24.818	312.8	0.066	5.77	101.3	0.8	0.56	3.3	0.14	0.90	0.72	0.35	20	218
30	13.98	13.98	33.615	25.123	284.0	0.096	5.16	88.1	3.8	0.91	7.1	0.28	1.56	0.79	0.31	30	221
40	11.19	11.19	33.703	25.733	226.0	0.121	3.58	57.7	18.4	1.62	19.0	0.37	0.28	0.38	0.34	40	216
49	10.47	10.46	33.729	25.880	212.1	0.141	3.27	51.9	22.2	1.78	21.9	0.24	0.00	0.22	0.31	49	215
50 ISL	10.21 D	10.20	33.740	D 25.934	207.1	0.143	3.24	51.1	22.5	1.79	22.1	0.22	0.00	0.21	0.30	50	
61	9.97	9.96	33.771	25.999	201.1	0.166	2.97	46.6	25.2	1.90	24.0	0.09	0.00	0.10	0.25	61	214
70	9.66	9.65	33.823	26.091	192.5	0.183	2.76	43.0	27.3	1.98	25.2	0.05	0.00	0.07	0.24	70	213
75 ISL	9.52 D	9.51	33.842	D 26.129	189.0	0.193	2.73	42.4	27.9	2.00	25.6	0.04	0.00	0.05	0.21	75	
86	9.30	9.29	33.849	26.171	185.2	0.214	2.69	41.6	29.1	2.03	26.3	0.02	0.00	0.03	0.13	86	212
100	9.03	9.02	33.932	26.279	175.2	0.239	2.48	38.1	32.0	2.10	27.4	0.03	0.00	0.02	0.12	101	211
120	9.00	8.99	34.006	26.342	169.6	0.273	2.13	32.8	34.1	2.19	28.3	0.02	0.00	0.02	0.16	121	210
125 ISL	8.98 D	8.97	34.023	D 26.359	168.2	0.282	2.07	31.8	34.7	2.22	28.5	0.02	0.00	0.02	0.16	126	
140	8.87	8.86	34.054	26.401	164.4	0.307	1.92	29.4	36.7	2.29	29.2	0.02	0.00	0.01	0.16	141	209
150 ISL	8.65 D	8.63	34.074	D 26.451	159.8	0.323	1.85	28.2	38.1	2.32	29.7	0.02	0.00	0.01	0.14	151	
171	8.44	8.42	34.082	26.490	156.5	0.356	1.75	26.6	40.9	2.38	30.7	0.03	0.00	0.01	0.10	172	208
200	7.91	7.89	34.075	26.564	149.8	0.400	1.74	26.1	44.6	2.44	32.0	0.02	0.00	0.01	0.09	201	207
230	7.40	7.38	34.066	26.631	143.7	0.444	1.70	25.2	48.9	2.51	33.2	0.02	0.00			231	206
250 ISL	7.15 D	7.13	34.088	D 26.683	138.9	0.473	1.52	22.4	52.4	2.59	34.3	0.02	0.00			252	
270	7.03	7.00	34.099	26.709	136.8	0.500	1.30	19.1	55.8	2.67	35.3	0.01	0.00			272	205
300 ISL	6.98 D	6.95	34.151	D 26.757	132.7	0.541	1.05	15.4	58.8	2.78	36.2	0.00	0.00			302	
321	6.85	6.82	34.170	26.790	129.8	0.568	0.91	13.3	60.6	2.84	36.6	0.00	0.00			323	204
380	6.46	6.43	34.195	26.862	123.6	0.643	0.70	10.2	67.6	2.95	38.1	0.00	0.00			383	203
400 ISL	6.37 D	6.33	34.209	D 26.885	121.6	0.668	0.61	8.8	69.7	2.99	38.4	0.00	0.00			403	
441	6.23	6.19	34.249	26.935	117.4	0.717	0.45	6.5	73.8	3.08	39.0	0.00	0.00			444	202
500 ISL	6.01 D	5.97	34.295	D 27.000	111.9	0.784	0.32	4.6	79.7	3.16	40.0	0.00	0.00			503	
515	5.93	5.88	34.309	27.021	110.0	0.801	0.29	4.2	81.2	3.18	40.2	0.00	0.00			519	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA	m/l	PCT	m/l	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	16.21	16.21	33.162	24.287	362.6	0.000	5.90	105.1	1.2	0.34	0.0	0.00	0.06	0.32	0.04	0	
2	16.21	16.21	33.162	24.287	362.7	0.007	5.90	105.1	1.2	0.34	0.0	0.00	0.06	0.32	0.04	2	220
10	16.15	16.15	33.166	24.304	361.3	0.036	5.92	105.3	0.9	0.34	0.0	0.00	0.05	0.31	0.05	10	219
20	15.97	15.97	33.170	24.349	357.4	0.072	6.04	107.1	0.7	0.34	0.0	0.00	0.07	0.41	0.08	20	218
30	15.23	15.23	33.067	D 24.434	349.6	0.108	6.21	108.4	0.9	0.35	0.0	0.00	0.05	0.40	0.12	30	217
40	13.83	13.82	33.063	24.727	321.8	0.141	6.07	103.0	3.4	0.48	1.2	0.25	0.07	0.90	0.40	40	216
50	13.01	13.00	33.045	24.879	307.7	0.173	5.71	95.2	4.5	0.64	3.6	0.32	0.21	1.57	0.58	50	215
60	12.80	12.79	33.170	25.017													

RV NEW HORIZON

CALCOFI CRUISE 1008

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	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	16.70	16.70	33.075	24.108	379.7	0.000	5.73	103.0	2.8	0.34	0.0	0.00	0.22	0.19	0.05	0	
3	16.70	16.70	33.075	24.108	379.8	0.011	5.73	103.0	2.8	0.34	0.0	0.00	0.22	0.19	0.05	3 222	
10	16.70	16.70	33.076	24.109	379.9	0.038	5.73	103.0	2.8	0.34	0.0	0.00	0.08	0.19	0.04	10 221	
14	16.69	16.69	33.076	24.112	379.8	0.053	5.73	103.0	2.8	0.35	0.0	0.00	0.10	0.20	0.05	14 220	
20 ISL	16.64	16.64	33.068	24.117	379.5	0.076	5.76	103.4	2.8	0.34	0.0	0.00	0.07	0.22	0.06	20	
22	16.59	16.59	33.065	24.127	378.7	0.084	5.77	103.5	2.8	0.33	0.0	0.00	0.05	0.23	0.06	22 219	
29	15.39	15.39	32.977	24.329	359.5	0.109	6.03	105.5	3.1	0.35	0.0	0.00	0.06	0.39	0.11	29 218	
30 ISL	15.31	D 15.31	32.977	D 24.347	357.9	0.113	6.04	105.5	3.2	0.35	0.0	0.00	0.06	0.43	0.12	30	
36	15.06	15.05	32.967	24.394	353.6	0.134	6.08	105.7	3.6	0.38	0.2	0.01	0.06	0.62	0.15	36 217	
44	15.05	15.04	33.043	24.455	348.0	0.162	5.90	102.6	3.4	0.40	0.5	0.02	0.10	0.68	0.23	44 216	
50 ISL	14.81	D 14.80	33.070	D 24.528	341.2	0.183	5.85	101.2	3.0	0.39	0.3	0.05	0.17	0.54	0.24	50	
55	14.49	14.48	33.059	24.587	335.7	0.200	5.84	100.4	2.8	0.39	0.2	0.08	0.20	0.38	0.25	55 215	
65	13.76	13.75	33.058	24.739	321.5	0.233	5.78	97.9	3.7	0.55	2.1	0.50	0.00	0.21	0.19	65 214	
75 ISL	13.67	D 13.66	33.220	D 24.882	308.1	0.264	5.66	95.8	3.5	0.42	0.9	0.27	0.00	0.17	0.26	75	
76	13.75	13.74	33.229	24.873	309.0	0.267	5.64	95.6	3.5	0.41	0.9	0.23	0.00	0.17	0.26	76 213	
88	12.44	12.43	33.170	25.087	288.7	0.303	5.40	89.0	7.1	0.84	7.5	0.01	0.00	0.07	0.09	88 212	
100	11.34	11.33	33.187	25.306	268.1	0.337	5.03	81.0	10.0	1.06	11.2	0.01	0.00	0.04	0.06	100 211	
120	9.96	9.95	33.435	25.739	227.0	0.386	4.41	69.0	16.9	1.42	17.4	0.00	0.00	0.01	0.04	121 210	
125 ISL	9.85	D 9.84	33.498	D 25.807	220.7	0.397	4.21	65.8	18.3	1.50	18.7	0.00	0.00	0.01	0.04	126	
140	9.57	9.55	33.610	25.941	208.2	0.430	3.64	56.5	22.2	1.71	22.1	0.00	0.00	0.01	0.03	141 209	
150 ISL	9.28	D 9.26	33.729	D 26.081	195.0	0.450	3.34	51.6	25.0	1.82	23.8	0.00	0.00	0.01	0.03	151	
171	8.90	8.88	33.901	26.277	176.8	0.489	2.90	44.5	30.1	1.97	26.3	0.00	0.00	0.02	0.02	172 208	
200 ISL	8.41	D 8.39	33.972	D 26.408	164.7	0.538	2.74	41.6	34.2	2.06	27.8	0.00	0.00	0.00	0.02	201	
201	8.41	8.39	33.978	26.413	164.3	0.540	2.74	41.6	34.3	2.06	27.8	0.00	0.00	0.00	0.02	202 207	
231	8.11	8.09	34.017	26.489	157.5	0.588	2.37	35.7	38.6	2.21	29.7	0.00	0.00			232 206	
250 ISL	7.80	D 7.78	34.040	D 26.553	151.6	0.618	2.17	32.5	41.6	2.30	31.0	0.00	0.00			251	
268	7.63	7.60	34.035	26.574	149.9	0.645	2.00	29.8	44.5	2.38	32.1	0.00	0.00			269 205	
300 ISL	7.31	D 7.28	34.049	D 26.631	144.8	0.692	1.71	25.3	49.6	2.51	33.8	0.00	0.00			302	
321	7.10	7.07	34.066	26.674	141.0	0.722	1.53	22.5	53.0	2.60	34.8	0.00	0.00			323 204	
379	6.45	6.42	34.115	26.800	129.4	0.800	1.05	15.2	63.8	2.84	37.6	0.00	0.00			381 203	
400 ISL	6.29	D 6.25	34.122	D 26.827	127.1	0.827	0.94	13.6	66.6	2.89	38.3	0.00	0.00			402	
442	6.00	5.96	34.144	26.881	122.2	0.879	0.78	11.2	71.6	2.97	39.3	0.00	0.00			445 202	
500 ISL	5.68	D 5.64	34.190	D 26.958	115.4	0.948	0.54	7.7	78.5	3.08	40.5	0.00	0.00			503	
518	5.61	5.57	34.213	26.985	113.1	0.969	0.47	6.7	80.7	3.12	40.9	0.00	0.00			521 201	

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

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	17.28	17.28	33.144	24.025	387.7	0.000	5.62	102.2	2.4	0.33	0.0	0.00	0.00	0.19	0.04	0	
2	17.28	17.28	33.144	24.025	387.7	0.008	5.62	102.2	2.4	0.33	0.0	0.00	0.00	0.19	0.04	2 220	
10	17.27	17.27	33.143	24.027	387.8	0.039	5.63	102.4	2.5	0.34	0.0	0.00	0.00	0.17	0.04	10 219	
20	16.37	16.37	33.066	24.178	373.7	0.077	5.86	104.6	2.5	0.34	0.0	0.00	0.00	0.22	0.06	20 218	
30	15.63	15.63	33.068	24.347	357.9	0.113	5.94	104.5	2.2	0.35	0.0	0.00	0.00	0.38	0.17	30 217	
41	15.31	15.30	33.082	24.428	350.5	0.152	5.87	102.6	2.5	0.36	0.0	0.00	0.00	0.60	0.34	41 216	
50 ISL	14.93	D 14.92	33.071	D 24.503	343.6	0.184	5.92	102.7	2.5	0.37	0.0	0.00	0.08	0.50	0.32	50	
51	14.99	14.98	33.083	24.499	344.0	0.187	5.93	103.0	2.5	0.37	0.0	0.00	0.09	0.48	0.32	51 215	
60	14.46	14.45	33.059	24.594	335.2	0.218	5.91	101.5	2.6	0.41	0.3	0.10	0.23	0.33	0.29	60 214	
69	13.77	13.76	33.021	24.708	324.5	0.247	5.86	99.2	3.1	0.47	0.9	0.39	0.09	0.18	0.19	69 213	
75 ISL	13.80	D 13.79	33.088	D 24.754	320.3	0.267	5.76	97.6	3.5	0.52	1.8	0.29	0.04	0.14	0.15	75	
85	13.47	13.46	33.123	24.848	311.5	0.298	5.57	93.8	4.5	0.63	3.7	0.01	0.00	0.11	0.12	85 212	
100	12.61	12.60	33.179	25.062	291.5	0.343	5.46	90.3	6.7	0.84	7.2	0.01	0.00	0.06	0.08	100 211	
120	11.33	11.32	33.205	25.322	267.0	0.399	5.33	85.8	7.3	0.81	7.5	0.01	0.00	0.05	0.21	121 210	
125 ISL	11.00	D 10.98	33.235	D 25.404	259.2	0.412	5.22	83.5	8.6	0.89	8.9	0.01	0.00	0.04	0.18	126	
139	10.15	10.13	33.354	25.645	236.5	0.447	4.78	75.1	13.5	1.20	14.0	0.00	0.00	0.02	0.05	140 209	
150 ISL	9.79	D 9.77	33.466	D 25.792	222.6	0.472	4.23	66.0	17.7	1.45	17.9	0.00	0.00	0.01	0.04	151	
170	9.51	9.49	33.693	26.016	201.7	0.515	3.35	52.0	24.5	1.81	23.4	0.00	0.00	0.00	0.02	171 208	
200	8.77	8.75	33.854	26.260	178.9	0.572	3.30	50.4	28.8	1.88	25.2	0.00	0.00	0.00	0.02	201 207	
230	8.38	8.36	33.963	26.406	165.5	0.624	2.89	43.8	34.1	2.02	27.3	0.00	0.00			231 206	
250 ISL	8.01	D 7.98	33.983	D 26.478	158.9	0.656	2.71	40.7	37.5	2.10	28.6	0.00	0.00			251	
271	7.76	7.73	34.008	26.534	153.7	0.689	2.52	37.7	41.1	2.20	29.9	0.00	0.00			272 205	
300 ISL	7.49	D 7.46	34.046	D 26.603	147.6	0.733	2.06	30.6	45.9	2.38	32.0	0.00	0.00			302	
320	7.39	7.36	34.07														

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 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	P04	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	ug/l	ug/l	db		
0 ISL	17.80	17.80	33.245	23.978	392.2	0.000	5.54	101.8	2.3	0.32	0.0	0.00	0.09	0.12	0.02	0	
2	17.80	17.80	33.245	23.978	392.2	0.008	5.54	101.8	2.3	0.32	0.0	0.00	0.09	0.12	0.02	A 2	
10 ISL	17.79	17.79	33.244	23.980	392.3	0.039	5.56	102.2	2.4	0.32	0.0	0.00	0.05	0.12	0.02	10 222	
20 ISL	17.79 D	17.79	33.241 D	23.978	392.8	0.078	5.63	103.4	2.4	0.32	0.0	0.00	0.07	0.11	0.02	20	
25	17.59	17.59	33.211	24.004	390.6	0.098	5.68	103.9	2.4	0.32	0.0	0.00	0.08	0.11	0.02	25 221	
30 ISL	16.41 D	16.41	33.151 D	24.234	368.7	0.117	5.74	102.6	2.4	0.32	0.0	0.00	0.07	0.12	0.03	30	
40	15.94	15.93	33.141 D	24.334	359.5	0.153	5.87	D104.0	2.4	0.32	0.0	0.00	0.05	0.15	0.04	40 220	
50	15.48	15.47	33.135	24.432	350.4	0.189	5.91	103.7	2.5	0.34	0.0	0.00	0.06	0.30	0.15	50 219	
62	15.05	15.04	33.143	24.532	341.2	0.230	5.92	103.0	2.5	0.36	0.0	0.00	0.08	0.41	0.31	62 218	
75	14.70	14.69	33.153 D	24.616	333.6	0.274	5.82	D100.5						0.12	0.02	75 217	
87	14.14	14.13	33.136	24.721	323.8	0.314	5.73	97.8	3.2	0.51	1.2	0.71	0.07	0.23	0.24	87 216	
99	13.94	13.93	33.208	24.818	314.9	0.352	5.67	96.5						0.12	0.10	99 215	
100 ISL	13.62 D	13.61	33.184 D	24.865	310.4	0.355	5.65	95.5	4.5	0.63	3.5	0.38	0.07	0.11	0.10	100	
112	12.58	12.57	33.191	25.077	290.3	0.391	5.41	89.5	5.9	0.75	5.9	0.02	0.06	0.05	0.07	112 214	
125	11.78	11.76	33.199	25.235	275.5	0.428	5.25	85.4	7.2	0.85	7.7	0.02	0.05	0.04	0.06	126 213	
141	10.93	10.91	33.254	25.432	256.9	0.471	4.99	79.7	10.4	1.08	11.6	0.01	0.04	0.03	0.05	142 212	
150 ISL	10.47 D	10.45	33.305 D	25.552	245.6	0.493	4.77	75.4	12.8	1.21	13.9	0.01	0.04	0.02	0.04	151	
170	9.76	9.74	33.505	25.828	219.6	0.540	4.19	65.3	18.3	1.49	18.7	0.00	0.04	0.01	0.02	171 211	
200	9.30	9.28	33.790	26.127	191.8	0.601	3.34	51.6	25.4	1.82	23.9	0.00	0.00	0.00	0.02	201 210	
230	8.80	8.78	33.959	26.339	172.1	0.656	2.89	44.2	30.9	1.96	26.4	0.00	0.00			231 209	
250 ISL	8.43 D	8.40	33.996 D	26.425	164.1	0.690	2.55	38.7	35.1	2.10	28.3	0.00	0.00			251	
270	8.20	8.17	34.033	26.489	158.3	0.722	2.23	33.7	39.3	2.25	30.1	0.00	0.00			271 208	
300 ISL	7.77 D	7.74	34.065 D	26.578	150.1	0.768	1.89	28.3	45.2	2.41	32.2	0.00	0.00			302	
321	7.45	7.42	34.073	26.630	145.3	0.799	1.69	25.1	49.1	2.51	33.5	0.00	0.00			323 207	
380	6.89	6.85	34.137	26.759	133.7	0.881	1.06	15.5	59.3	2.79	36.6	0.00	0.00			382 206	
400 ISL	6.83 D	6.79	34.181 D	26.802	129.9	0.908	0.91	13.3	62.2	2.86	37.2	0.00	0.00			402	
442	6.51	6.47	34.207	26.866	124.2	0.961	0.68	9.9	67.7	2.97	38.3	0.00	0.00			445 205	
500 ISL	6.16 D	6.12	34.252 D	26.947	117.0	1.031	0.51	7.4	75.2	3.08	39.8	0.00	0.00			503	
516	5.97	5.92	34.238	26.960	115.8	1.050	0.48	6.9	77.2	3.10	40.2	0.00	0.00			519 204	
600 CSL	5.48	5.43	34.294	27.065	106.4	1.143	0.34	4.8								604 200	
700 CSL	5.09	5.03	34.376	27.177	96.5	1.244	0.28	3.9								705 200	
800 CSL	4.52	4.46	34.404	27.264	88.5	1.337	0.37	5.1								806 200	
900 CSL	4.27	4.20	34.441	27.321	83.7	1.423	0.43	5.9								907 200	
1000 CSL	4.02	3.94	34.477	27.376	78.9	1.504	0.53	7.3								1008 200	
1100 CSL	3.73	3.65	34.500	27.424	74.5	1.581	0.64	8.7								1109 200	
1200 CSL	3.49	3.40	34.517	27.462	71.2	1.654	0.75	10.1								1210 200	
1300 CSL	3.26	3.16	34.534	27.498	67.9	1.723	0.86	11.6								1312 200	
1400 CSL	3.04	2.94	34.550	27.531	64.8	1.790	0.99	13.2								1413 200	
1500 CSL	2.84	2.73	34.564	27.561	62.0	1.853	1.12	14.9								1514 200	
1600 CSL	2.66	2.55	34.577	27.588	59.5	1.914	1.25	16.5								1616 200	
1800 CSL	2.33	2.20	34.602	27.636	54.7	2.028	1.56	20.5								1819 200	
2000 CSL	2.12	1.98	34.622	27.670	51.6	2.135	1.85	24.2								2022 200	
2200 CSL	1.97	1.81	34.634	27.693	49.7	2.236	2.03	26.4								2225 200	
2400 CSL	1.86	1.69	34.645	27.711	48.3	2.334	2.23	28.9								2428 200	
2600 CSL	1.77	1.58	34.654	27.727	47.2	2.429	2.41	31.1								2632 200	
2800 CSL	1.70	1.49	34.660	27.738	46.5	2.523	2.55	32.9								2836 200	
3000 CSL	1.65	1.43	34.664	27.746	46.2	2.616	2.64	34.0								3040 200	
3200 CSL	1.60	1.36	34.669	27.755	45.7	2.708	2.76	35.5								3244 200	
3400 CSL	1.56	1.30	34.672	27.761	45.5	2.799	2.85	36.6								3449 200	
3504	1.55	1.28	34.673	27.764	45.6	3.461	2.90	37.2	172.0	2.71	38.6	0.00	0.00			3554 201	
3504	1.55	1.28	34.674	27.765	45.5	3.461										3554 203	

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; CRUISE CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 100.0

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	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	ug/l	ug/l	db		
0 ISL	17.72	17.72	33.247	23.999	390.2	0.000	5.55	101.8	2.8	0.33	0.0	0.00	0.04	0.14	0.02	0	
2	17.72	17.72	33.247	23.999	390.2	0.008	5.55	101.8	2.8	0.33	0.0	0.00	0.04	0.14	0.02	2 221	
10 ISL	17.72 D	17.72	33.241 D	23.995	390.9	0.039	5.56	102.0	2.7	0.33	0.0	0.00	0.02	0.14	0.03	10	
15	17.67	17.67	33.243	24.008	389.8	0.059	5.56	101.9	2.6	0.33	0.0	0.00	0.14	0.03	15	220	
20 ISL	17.65 D	17.65	33.237 D	24.009	389.9	0.078	5.64	103.3	2.7	0.33	0.0	0.00	0.15	0.03	20		
29	16.73	16.73	33.161	24.168	375.0	0.112	5.81	104.5	2.8	0.32	0.0	0.00	0.19	0.04	29	219	
30 ISL	16.41 D	16.41	33.154 D	24.237	368.4	0.116	5.82	104.0	2.8	0.32	0.0	0.00	0.20	0.04	30		
43	15.79	15.78	33.148	24.373	355.8	0.163	5.91	104.4	2.8	0.34	0.0	0.00	0.28	0.09	43	218	
49	15.50	15.49	33.148	24.438	349.8	0.184	5.91	103.8	2.6	0.34	0.0	0.00	0.30	0.19	49	217	
50 ISL	15.26 D	15.25	33.145 D	24.488	345.1	0.188	5.91	103.2	2.6								

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 110.0

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	SVA	DYN HT	OXYGEN	OXY	SIO3	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	ug/l	ug/l	db		
0 ISL	18.11	18.11	33.278	23.928	396.9	0.000	5.51	101.9	2.4	0.33	0.1	0.00	0.45	0.13	0.03	0	
3	18.11	18.11	33.278	23.928	397.0	0.012	5.51	101.9	2.4	0.33	0.1	0.00	0.45	0.13	0.03	3 221	
10	18.10	18.10	33.279	23.931	396.9	0.040	5.53	102.2	2.5	0.32	0.0	0.00	0.06	0.13	0.02	10 220	
20 ISL	17.78	17.78	33.248	D 23.986	392.1	0.079	5.66	104.0	2.4	0.32	0.0	0.00	0.05	0.15	0.04	20	
25	17.17	17.17	33.211	24.104	381.0	0.098	5.74	104.2	2.3	0.32	0.0	0.00	0.04	0.16	0.05	25 219	
30 ISL	16.61	16.61	33.172	D 24.205	371.5	0.117	5.81	104.3	2.3	0.32	0.0	0.00	0.04	0.18	0.06	30	
41	16.03	16.02	33.171	24.337	359.2	0.157	5.91	104.9	2.4	0.32	0.0	0.00	0.04	0.22	0.09	41 218	
50	15.65	15.64	33.173	24.424	351.2	0.189	5.91	104.1	2.5	0.32	0.0	0.00	0.00	0.25	0.10	50 217	
62	15.25	15.24	33.187	24.523	342.1	0.231	5.92	103.4	2.3	0.33	0.0	0.00	0.00	0.32	0.28	62 216	
68	14.65	14.64	33.171	24.640	331.0	0.251	5.93	102.3	2.6	0.38	0.1	0.03	0.09	0.45	0.46	68 215	
75	14.45	14.44	33.219	24.720	323.6	0.274	5.75	98.9	3.0	0.39	0.2	0.09	0.08	0.37	0.40	75 214	
88	13.34	13.33	33.175	24.915	305.3	0.315	5.55	93.2	4.2	0.61	3.4	0.09	0.00	0.22	0.27	88 213	
100	12.41	12.40	33.211	25.125	285.4	0.350	5.40	89.0	6.3	0.81	7.1	0.01	0.00	0.07	0.09	100 212	
112	11.76	11.75	33.233	25.265	272.3	0.384	5.25	85.3	8.0	0.90	8.6	0.01	0.00	0.05	0.07	112 211	
125	10.98	10.96	33.241	25.413	258.4	0.418	5.03	80.4	10.0	1.05	11.3	0.00	0.00	0.04	0.07	126 210	
140	10.27	10.25	33.345	25.617	239.1	0.456	4.65	73.2	13.4	1.24	14.6	0.00	0.00	0.03	0.06	141 209	
150 ISL	10.08	D 10.06	33.397	D 25.690	232.3	0.479	4.32	67.8	16.3	1.40	17.1	0.00	0.00	0.02	0.05	151	
169	9.68	9.66	33.607	25.921	210.7	0.521	3.72	57.9	21.7	1.68	21.4	0.00	0.00	0.00	0.04	170 208	
200	9.18	9.16	33.842	26.187	186.0	0.583	3.27	50.4	26.4	1.83	24.2	0.00	0.00	0.00	0.02	201 207	
231	8.80	8.78	33.978	26.354	170.7	0.638	2.68	41.0	32.0	2.02	27.0	0.00	0.00	0.00	0.00	232 206	
250 ISL	8.58	D 8.55	34.007	D 26.411	165.5	0.670	2.47	37.6	35.4	2.11	28.4	0.00	0.00	0.00	0.00	251	
270	8.23	8.20	34.042	26.492	158.1	0.703	2.29	34.6	39.0	2.21	29.8	0.00	0.00	0.00	0.00	271 205	
300 ISL	7.71	D 7.68	34.063	D 26.585	149.4	0.749	1.93	28.8	45.1	2.38	32.1	0.00	0.00	0.00	0.00	302	
321	7.38	7.35	34.073	26.640	144.3	0.779	1.68	24.9	49.5	2.49	33.6	0.00	0.00	0.00	0.00	323 204	
380	6.66	6.63	34.103	26.763	133.1	0.861	1.18	17.2	60.4	2.75	36.8	0.00	0.00	0.00	0.00	382 203	
400 ISL	6.44	D 6.40	34.117	D 26.803	129.4	0.888	1.03	14.9	63.6	2.81	37.6	0.00	0.00	0.00	0.00	402	
443	6.16	6.12	34.151	26.867	123.8	0.942	0.77	11.1	70.2	2.92	38.9	0.00	0.00	0.00	0.00	444 202	
500 ISL	5.71	D 5.67	34.190	D 26.954	115.8	1.010	0.57	8.1	78.8	3.05	40.4	0.00	0.00	0.00	0.00	503	
519	5.60	5.56	34.202	26.977	113.8	1.032	0.50	7.1	81.6	3.10	40.9	0.00	0.00	0.00	0.00	522 201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SIO3	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	ug/l	ug/l	db		
0 ISL	18.41	18.41	33.274	23.851	404.3	0.000	5.49	102.1	2.2	0.31	0.0	0.00	0.04	0.10	0.02	0	
1	18.41	18.41	33.274	23.851	404.3	0.004	5.49	102.1	2.2	0.31	0.0	0.00	0.04	0.10	0.02	1 220	
10	18.41	18.41	33.278	23.854	404.3	0.040	5.51	102.5	2.3	0.31	0.0	0.00	0.04	0.10	0.01	10 219	
20 ISL	16.70	D 16.70	33.204	D 24.208	370.9	0.079	5.74	103.2	2.2	0.32	0.0	0.00	0.01	0.12	0.03	20	
25	16.37	16.37	33.177	24.263	365.7	0.098	5.86	104.7	2.2	0.32	0.0	0.00	0.00	0.13	0.04	25 218	
30 ISL	16.00	D 16.00	33.168	D 24.341	358.5	0.116	5.85	103.7	2.2	0.32	0.0	0.00	0.00	0.14	0.06	30	
40	15.62	15.61	33.156	24.417	351.5	0.151	5.83	102.6	2.3	0.33	0.0	0.00	0.00	0.17	0.09	40 217	
50 ISL	15.44	D 15.43	33.225	D 24.510	343.0	0.186	5.82	102.1	2.3	0.32	0.0	0.00	0.00	0.21	0.13	50	
51	15.44	15.43	33.228	24.512	342.8	0.189	5.82	102.1	2.3	0.32	0.0	0.00	0.00	0.21	0.13	51 216	
62	15.33	15.32	33.342	24.625	332.4	0.227	5.84	102.3	2.2	0.28	0.0	0.00	0.00	0.23	0.17	62 215	
75 ISL	13.88	D 13.87	33.182	D 24.810	315.0	0.269	5.74	97.5	3.0	0.43	1.1	0.18	0.00	0.26	0.26	75	
76	14.07	14.06	33.190	24.777	318.2	0.272	5.73	97.7	3.1	0.45	1.2	0.19	0.00	0.26	0.26	76 214	
87	13.12	13.11	33.162	24.948	302.0	0.306	5.63	94.1	5.0	0.67	4.6	0.02	0.00	0.12	0.13	87 213	
100 ISL	12.54	D 12.53	33.177	D 25.074	290.3	0.344	5.46	90.2	5.9	0.76	6.1	0.01	0.00	0.08	0.11	100 212	
101	12.53	12.52	33.179	25.077	290.0	0.347	5.45	90.0	5.9	0.76	6.2	0.01	0.00	0.08	0.11	101 212	
113	11.79	11.78	33.207	25.239	274.8	0.381	5.36	87.2	7.2	0.87	8.0	0.01	0.00	0.06	0.09	113 211	
125 ISL	11.00	D 10.98	33.222	D 25.394	260.1	0.413	5.15	82.3	9.2	0.99	10.3	0.00	0.00	0.03	0.06	126	
126	10.91	10.89	33.226	25.413	258.3	0.416	5.13	81.9	9.4	1.00	10.5	0.00	0.00	0.03	0.06	127 210	
139	10.42	10.40	33.244	25.513	249.0	0.449	5.03	79.4	10.6	1.06	11.6	0.00	0.00	0.03	0.06	140 209	
150 ISL	10.13	D 10.11	33.284	D 25.594	241.5	0.476	4.80	75.3	12.6	1.18	13.6	0.00	0.00	0.02	0.05	151	
170	9.76	9.74	33.478	25.807	221.6	0.522	4.31	67.2	17.1	1.43	17.8	0.00	0.00	0.01	0.02	171 208	
200 ISL	9.02	D 9.00	33.800	D 26.179	186.7	0.583	3.87	59.4	23.7	1.63	22.0	0.00	0.00	0.00	0.01	201 207	
201	9.04	9.02	33.780	26.160	188.5	0.585	3.85	59.2	23.9	1.64	22.1	0.00	0.00	0.00	0.01	202 207	
230	8.50	8.48	33.958	26.384	167.6	0.637	2.86	43.5	32.8	2.01	27.4	0.00	0.00	0.00	0.00	231 206	
250 ISL	8.25	D 8.22	33.993	D 26.450	161.6	0.670	2.64	39.9	36.4	2.11	29.0	0.00	0.00	0.00	0.00	251	
271	7.84	7.81	34.005	26.520	155.1	0.703	2.53	37.9	39.5	2.18	29.9	0.00	0.00	0.00	0.00	272 205	
300 ISL	7.55	D 7.52	34.046	D 26.595	148.4	0.747	2.07	30.8	4								

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	17.34	17.34	33.466	24.258	365.5	0.000	6.53	119.1	4.4	0.27	0.0	0.01	0.05	1.74	0.54	0	
1	17.34	17.34	33.466	24.258	365.5	0.004	6.53	119.1	4.4	0.27	0.0	0.01	0.05	1.74	0.54	1	211
3	17.35	17.35	33.467	24.256	365.7	0.011	6.53	119.1	4.4	0.29	0.0	0.01	0.13	1.78	0.57	3	210
6	15.62	15.62	33.459	24.649	328.4	0.021	6.74	118.8	4.6	0.31	0.0	0.02	0.10	2.95	0.81	6	209
10	13.70	13.70	33.382	25.000	295.1	0.034	6.78	114.9	4.3	0.42	0.0	0.02	0.24	4.03	0.69	10	208
13	13.06	13.06	33.467	25.194	276.6	0.042	6.09	101.9	6.4	0.61	3.1	0.16	0.11	3.46	0.64	13	207
18	11.74	11.74	33.400	25.396	257.5	0.056	5.05	82.2	9.2	1.10	12.0	0.57	0.05	1.04	0.38	18	206
20 ISL	11.60	11.60	33.375 D	25.403	257.0	0.061	5.00	81.1	9.8	1.12	12.5	0.49	0.05	0.90	0.35	20	
24	11.15	11.15	33.351	25.466	251.0	0.071	4.89	78.5	11.1	1.16	13.6	0.20	0.05	0.61	0.31	24	205
30	10.89	10.89	33.456	25.594	239.0	0.086	4.44	70.9	14.9	1.39	17.1	0.05	0.12	0.22	0.15	30	204
40	10.39	10.39	33.613	25.804	219.2	0.109	3.48	55.1	19.9	1.64	20.6	0.21	0.10	0.18	0.19	40	203
50	10.30	10.29	33.708	25.894	210.9	0.130	2.97	46.9	22.9	1.82	22.7	0.32	0.05	0.11	0.16	50	202
60	10.15	10.14	33.736	25.941	206.6	0.151	2.91	45.8	23.9	1.84	23.3	0.14	0.00	0.06	0.10	60	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.85	18.85	33.461	23.884	401.1	0.000	5.95	111.7	1.7	0.25	0.0	0.01	0.06	0.34	0.07	0	
2	18.85	18.85	33.461	23.884	401.2	0.008	5.95	111.7	1.7	0.25	0.0	0.01	0.06	0.34	0.07	2	220
10	16.91	16.91	33.404	24.312	360.6	0.038	6.41	115.9	1.8	0.29	0.0	0.00	0.04	0.45	0.14	10	219
20	13.24	13.24	33.441	25.139	282.1	0.071	5.79	97.2	4.6	0.77	6.3	0.47	0.10	0.91	0.32	20	218
30	11.71	11.71	33.420	25.417	255.8	0.098	4.82	78.4	10.6	1.21	13.6	0.26	0.00	0.60	0.26	30	217
40	10.76	10.76	33.450	25.612	237.4	0.122	4.21	67.1	15.2	1.42	16.7	0.15	0.00	0.34	0.20	40	216
50	10.72	10.71	33.557	25.703	229.1	0.146	3.63	57.8	18.4	1.62	18.4	0.54	0.00	0.31	0.33	50	215
60	10.46	10.45	33.636	25.810	219.1	0.168	3.24	51.3	20.9	1.73	20.9	0.22	0.00	0.19	0.20	60	214
70	10.38	10.37	33.693	25.868	213.7	0.190	2.95	46.7	22.5	1.84	22.2	0.48	0.19	0.12	0.15	70	213
75 ISL	10.31 D	10.30	33.720 D	25.902	210.7	0.200	2.80	44.2	23.4	1.89	22.8	0.37	0.17	0.10	0.13	75	
85	10.29	10.28	33.829	25.990	202.5	0.221	2.54	40.1	25.1	1.96	23.9	0.05	0.07	0.07	0.11	85	212
100	10.18	10.17	33.890	26.057	196.5	0.251	2.41	38.0	26.7	2.01	24.6	0.02	0.04	0.05	0.10	101	211
120	9.95	9.94	33.983	26.169	186.3	0.289	2.23	35.0	28.7	2.08	25.7	0.04	0.05	0.02	0.07	121	210
125 ISL	9.93 D	9.92	34.022 D	26.203	183.2	0.298	2.17	34.1	29.5	2.11	26.0	0.05	0.05	0.02	0.07	126	
140	9.76	9.74	34.116	26.305	173.8	0.325	1.98	31.0	31.8	2.19	26.7	0.07	0.04	0.01	0.07	141	209
150 ISL	9.67 D	9.65	34.119 D	26.323	172.3	0.342	1.89	29.5	32.8	2.22	27.0	0.07	0.02	0.01	0.07	151	
170	9.59	9.57	34.152	26.362	169.0	0.376	1.75	27.3	34.3	2.27	27.6	0.05	0.00	0.01	0.08	171	208
200 ISL	9.35 D	9.33	34.197 D	26.437	162.4	0.426	1.54	23.9	37.0	2.36	28.6	0.03	0.05	0.01	0.07	201	
201	9.36	9.34	34.202	26.439	162.2	0.428	1.53	23.7	37.1	2.36	28.6	0.03	0.05	0.01	0.07	202	207
230	9.22	9.19	34.231	26.485	158.5	0.474	1.39	21.5	38.8	2.44	29.2	0.02	0.00		231	206	
250 ISL	8.88 D	8.85	34.219 D	26.530	154.4	0.506	1.28	19.6	40.9	2.49	29.9	0.02	0.00		251		
271	8.78	8.75	34.250	26.570	151.0	0.538	1.17	17.9	43.3	2.55	30.7	0.03	0.00		273	205	
300 ISL	8.53 D	8.50	34.265 D	26.621	146.6	0.581	1.01	15.4	45.8	2.64	31.6	0.06	0.05		302		
322	8.39	8.36	34.276	26.652	144.0	0.613	0.90	13.7	47.9	2.70	32.3	0.07	0.09		324	204	
381	7.65	7.61	34.262	26.751	135.1	0.695	0.71	10.6	56.0	2.81	34.7	0.02	0.04		383	203	
400 ISL	7.45 D	7.41	34.254 D	26.774	133.1	0.721	0.67	10.0	58.0	2.84	35.1	0.04	0.02		403		
440	7.23	7.19	34.265	26.814	129.8	0.773	0.60	8.9	61.9	2.91	35.9	0.07	0.00		443	202	
500 ISL	6.58 D	6.53	34.272 D	26.908	121.2	0.848	0.47	6.8	68.7	3.01	37.9	0.01	0.00		503		
515	6.55	6.50	34.278	26.917	120.5	0.867	0.44	6.4	70.4	3.04	38.4	0.00	0.00		519	201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA		ml/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	19.15	19.15	33.540 D	23.869	402.6	0.000	5.66	106.9	1.6	0.21	0.0	0.00	0.50	0.13	0		
1	19.15	19.15	33.540 D	23.869	402.6	0.004	5.66	106.9	1.6	0.21	0.0	0.00	0.50	0.13	1	220	
10	17.89	17.89	33.517	24.165	374.7	0.039	6.06	111.7	1.5	0.29	0.2	0.02	0.6	0.70	0.17	10	219
20	13.49	13.49	33.372 D	25.035	292.0	0.072	6.12	103.3	2.6	0.70	5.4	0.37	0.12	0.64	0.22	20	218
30	12.61	12.61	33.362	25.202	276.4	0.101	5.50	91.1	5.5	0.93	8.3	0.54	0.38	0.60	0.25	30	217
40	11.66	11.65	33.313	25.344	263.0	0.128	5.12	83.1	8.9	1.07	11.4	0.22	0.07	0.43	0.20	40	216
50 ISL	11.13 D	11.12	33.364 D	25.480	250.3	0.153</											

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	16.96	16.96	33.422	24.314	360.1	0.000	5.95	107.7	1.0	0.33	0.0	0.00	0.06	0.38	0.06	0	
2	16.96	16.96	33.422	24.314	360.2	0.007	5.95	107.7	1.0	0.33	0.0	0.00	0.06	0.38	0.06	2 220	
10	16.62	16.62	33.420	24.392	353.0	0.036	6.05	108.8	1.0	0.35	0.2	0.02	0.05	0.47	0.07	10 219	
20	15.22	15.22	33.370	24.669	326.9	0.070	6.21	108.6	1.3	0.46	1.3	0.11	0.16	0.61	0.14	20 218	
30	13.24	13.24	33.324	25.048	291.0	0.101	5.81	97.5	3.8	0.78	5.6	0.43	0.49	0.78	0.25	30 217	
40	12.87	12.86	33.333	25.129	283.6	0.129	5.57	92.8	5.5	0.89	7.4	0.58	0.23	0.69	0.20	40 216	
50 ISL	11.85	D 11.84	33.314	D 25.310	266.6	0.157	5.27	85.9	8.3	1.06	10.8	0.19	0.09	0.36	0.15	50	
51	11.84	11.83	33.315	25.312	266.3	0.160	5.24	85.4	8.6	1.08	11.1	0.15	0.08	0.33	0.15	51 215	
60	11.27	11.26	33.325	25.425	255.8	0.183	4.94	79.5	10.8	1.18	12.9	0.07	0.00	0.21	0.12	60 214	
70	10.61	10.60	33.375	25.581	241.1	0.208	4.59	72.9	14.2	1.36	15.7	0.04	0.04	0.12	0.09	70 213	
75 ISL	10.47	D 10.46	33.390	D 25.617	237.8	0.220	4.49	71.1	15.0	1.41	16.5	0.03	0.05	0.10	0.09	75	
85	10.32	10.31	33.456	25.694	230.6	0.243	4.30	67.9	16.7	1.49	18.0	0.03	0.06	0.07	0.08	85 212	
100	9.62	9.61	33.624	25.943	207.2	0.276	3.74	58.2	22.2	1.71	21.8	0.01	0.00	0.03	0.05	100 211	
120	9.30	9.29	33.750	26.094	193.2	0.316	3.37	52.1	25.4	1.83	23.9	0.01	0.00	0.01	0.05	121 210	
125 ISL	9.21	D 9.20	33.782	D 26.133	189.6	0.326	3.29	50.8	26.2	1.86	24.4	0.01	0.00	0.01	0.05	126	
141	9.06	9.04	33.849	26.210	182.6	0.355	3.02	46.5	28.7	1.95	25.8	0.01	0.00	0.01	0.06	142 209	
150 ISL	8.97	D 8.95	33.899	D 26.264	177.7	0.372	2.86	43.9	30.2	2.00	26.5	0.01	0.00	0.01	0.05	151	
171	8.81	8.79	33.994	26.364	168.6	0.408	2.48	38.0	33.9	2.12	27.9	0.01	0.00	0.04	0.04	172 208	
200 ISL	8.51	D 8.49	34.078	D 26.476	158.3	0.455	2.05	31.2	39.1	2.30	29.8	0.01	0.00	0.00	0.05	201	
201	8.51	8.49	34.075	26.474	158.6	0.457	2.04	31.0	39.3	2.30	29.9	0.01	0.00	0.00	0.05	202 207	
231	7.99	7.97	34.065	26.545	152.2	0.504	2.01	30.2	42.8	2.34	31.1	0.01	0.00			232 206	
250 ISL	7.83	D 7.81	34.110	D 26.604	146.8	0.532	1.75	26.2	46.3	2.45	32.3	0.01	0.00			251	
270	7.71	7.68	34.146	26.650	142.8	0.561	1.41	21.1	50.1	2.58	33.5	0.00	0.00			272 205	
300 ISL	7.45	D 7.42	34.154	D 26.694	139.0	0.603	1.06	15.7	53.4	2.71	34.4	0.00	0.00			302	
321	7.59	7.56	34.234	26.737	135.4	0.632	0.88	13.1	55.2	2.78	34.8	0.00	0.00			323 204	
380	7.24	7.20	34.274	26.819	128.4	0.710	0.62	9.2	61.6	2.95	36.3	0.00	0.13			382 203	
400 ISL	7.12	D 7.08	34.290	D 26.848	125.8	0.735	0.56	8.3	64.9	3.00	37.1	0.00	0.09			403	
440	6.52	6.48	34.279	26.921	119.0	0.784	0.46	6.7	71.4	3.07	38.7	0.00	0.00			443 202	
500 ISL	6.21	D 6.17	34.295	D 26.975	114.5	0.854	0.37	5.3	76.1	3.12	39.6	0.00	0.00			503	
515	6.18	6.13	34.300	26.983	113.9	0.871	0.35	5.0	77.3	3.13	39.8	0.00	0.00			519 201	

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C	THETA	m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	17.37	17.37	33.308	24.129	377.7	0.000	5.71	104.1	1.1	0.32	0.0	0.00	0.11	0.23	0.03	0	
2	17.37	17.37	33.308	24.130	377.8	0.008	5.71	104.1	1.1	0.32	0.0	0.00	0.11	0.23	0.03	2 222	
10 ISL	17.30	D 17.30	33.302	D 24.142	376.9	0.038	6.01	109.4	1.0	0.34	0.0	0.00	0.18	0.29	0.05	10	
14	16.58	16.58	33.291	24.302	361.7	0.053	6.26	112.4	1.0	0.35	0.0	0.00	0.21	0.32	0.06	14 220	
14 ISL	16.69	16.69	33.294	24.279	363.9	0.053										14 221	
20 ISL	14.77	D 14.77	33.293	D 24.707	323.2	0.073	6.66	115.3	0.9	0.38	0.2	0.02	0.14	0.68	0.13	20	
22	14.52	14.52	33.297	24.764	317.9	0.080	6.72	115.8	0.8	0.39	0.2	0.03	0.11	0.80	0.15	22 219	
29	13.77	13.77	33.291	24.916	303.6	0.101	6.10	103.5	2.7	0.64	3.6	0.25	0.13	0.94	0.20	29 218	
30 ISL	13.29	D 13.29	33.271	D 24.997	295.8	0.104	6.03	101.3	3.0	0.66	4.0	0.27	0.14	0.93	0.20	30	
36	13.08	13.08	33.275	25.042	291.7	0.122	5.69	95.1	4.6	0.77	5.9	0.35	0.17	0.79	0.18	36 217	
43	12.57	12.56	33.275	25.143	282.3	0.142	5.46	90.3	6.2	0.88	7.7	0.35	0.15	0.66 A	0.18 A	43 216	
50 ISL	12.36	D 12.35	33.306	D 25.207	276.4	0.162	5.32	87.6	7.1	0.97	9.2	0.45	0.09	0.56	0.17	50	
55	12.14	12.13	33.337	25.273	270.2	0.175	5.24	85.9	7.6	1.03	10.1	0.49	0.07	0.49	0.16	55 215	
66	11.45	11.44	33.346	25.409	257.5	0.204	4.98	80.5	9.6	1.12	12.0	0.18	0.17	0.24	0.11	66 214	
75 ISL	10.78	D 10.77	33.309	D 25.500	248.9	0.227	4.73	75.3	11.8	1.20	13.4	0.09	0.11	0.17	0.10	75	
77	10.73	10.72	33.317	25.515	247.6	0.232	4.67	74.3	12.4	1.23	13.8	0.08	0.09	0.16	0.10	77 213	
88	10.26	10.25	33.406	25.666	233.4	0.258	4.40	69.3	15.5	1.56	16.8	0.04	0.00	0.08	0.07	88 212	
100	9.94	9.93	33.517	25.806	220.2	0.286	4.07	63.7	18.6	1.56	19.4	0.03	0.00	0.04	0.07	100 211	
120	9.40	9.39	33.745	26.074	195.2	0.327	3.36	52.0	24.8	1.81	23.4	0.02	0.04	0.01	0.05	121 210	
125 ISL	9.22	D 9.21	33.764	D 26.118	191.0	0.337	3.26	50.3	25.8	1.84	24.0	0.02	0.03	0.01	0.05	126	
140	9.09	9.07	33.846	26.203	183.2	0.365	3.04	46.8	28.4	1.92	25.4	0.02	0.00	0.01	0.04	141 209	
150 ISL	9.01	D 8.99	33.871	D 26.235	180.3	0.383	2.84	43.6	30.4	1.99	26.4	0.02	0.01	0.01	0.04	151	
170	8.73	8.71	33.965	26.353	169.5	0.418	2.44	37.3	34.3	2.13	28.1	0.01	0.04	0.01	0.05	171 208	
200 ISL	8.43	D 8.41	34.076	D 26.487	157.3	0.467	1.95	29.6	39.6	2.31	30.0	0.00	0.00	0.01	0.06	201	
201	8.44	8.42	34.079	26.488	157.2	0.469	1.93	29.3	39.8	2.32	30.1	0.00	0.00	0.01	0.06	202 207	
232	8.27	8.25	34.171	26.586	148.4	0.516	1.34	20.3	45.5	2.53	32.0	0.01	0.00			233 206	
250 ISL	8.12	D 8.09	34.196	D 26.629	144.7	0.542	1.1										

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 45.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
32 21.1 N	118 33.3 W	31/07/10	2021	UTC	142 m	190	08 kn	300 02 08	2	1014.1 mb	17.9 C	16.1 C	13m	8/8	SC		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA			m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	ug/l	db	
0 ISL	17.74	17.74	33.506	24.192	371.7	0.000	5.78	106.3	1.8	0.27	0.0	0.00	0.07	0.37	0.14	0	
1	17.74	17.74	33.506	24.192	371.7	0.004	5.78	106.3	1.8	0.27	0.0	0.00	0.07	0.37	0.14	1	220
10	17.64	17.64	33.519	24.227	368.8	0.037	5.79	106.3	1.7	0.26	0.0	0.00	0.00	0.39	0.16	10	219
20 ISL	15.11 D	15.11	33.548	24.830	311.6	0.071	6.08	106.2	2.3	0.45	2.5	0.09	0.20	1.00	0.37	20	
21	15.13	15.13	33.558	24.833	311.3	0.074	6.10	106.6	2.4	0.47	2.8	0.10	0.22	1.06	0.39	21	218
30 ISL	13.24 D	13.24	33.486	25.174	279.1	0.101	5.89	99.0	3.3	0.63	4.8	0.22	0.17	1.17	0.51	30	
31	13.22	13.22	33.499	25.188	277.7	0.104	5.84	98.1	3.4	0.65	5.1	0.23	0.17	1.18	0.51	31	217
41	11.85	11.84	33.447	25.413	256.5	0.130	5.11	83.3	8.2	0.97	9.2	0.34	0.38	0.76	0.36	41	216
50	10.93	10.92	33.500	25.622	236.8	0.152	4.24	67.8	15.2	1.44	16.9	0.20	0.11	0.50	0.31	50	215
61	10.51	10.50	33.628	25.795	220.5	0.178	3.79	60.1	19.5	1.67	21.0	0.04	0.00	0.23	0.15	61	214
71	10.14	10.13	33.741	25.947	206.3	0.199	3.16	49.8	23.5	1.84	23.5	0.02	0.00	0.16	0.14	71	213
75 ISL	10.02 D	10.01	33.776	25.995	201.8	0.207	2.96	46.5	24.8	1.90	24.3	0.02	0.00	0.13	0.13	75	
85	9.73	9.72	33.846	26.098	192.2	0.227	2.63	41.1	27.7	2.02	25.8	0.02	0.00	0.07	0.10	85	212
100	9.09	9.08	33.929	26.267	176.3	0.254	2.56	39.4	30.9	2.07	27.0	0.02	0.00	0.01	0.06	101	211
121	8.83	8.82	33.982	26.350	168.8	0.291	2.39	36.6	33.6	2.13	28.0	0.01	0.00	0.01	0.06	122	210
125 ISL	8.81 D	8.80	33.984	26.355	168.5	0.297	2.42	37.0	33.6	2.12	28.0	0.01	0.00	0.01	0.06	126	
141	8.65	8.64	34.002	26.394	165.0	0.324	2.49	38.0	33.9	2.11	28.0	0.03	0.00	0.01	0.05	142	209
150 ISL	8.59 D	8.57	34.022	26.419	162.8	0.339	2.30	35.0	35.3	2.17	28.6	0.03	0.00	0.01	0.05	151	
171	8.57	8.55	34.089	26.475	157.9	0.373	1.80	27.4	39.3	2.34	30.3	0.01	0.00	0.01	0.05	172	208
200 ISL	8.02 D	8.00	34.089	26.559	150.3	0.417	1.75	26.3	43.8	2.41	31.6	0.00	0.00	0.00	0.04	201	
201	8.02	8.00	34.093	26.562	150.0	0.419	1.75	26.3	43.9	2.41	31.6	0.00	0.00	0.00	0.04	202	207
232	7.96	7.94	34.180	26.640	143.2	0.464	1.16	17.4	48.6	2.62	33.3	0.00	0.00			233	206
250 ISL	7.92 D	7.89	34.203	26.664	141.2	0.490	0.99	14.9	50.6	2.69	33.9	0.00	0.00			251	
269	7.78	7.75	34.222	26.699	138.1	0.516	0.89	13.3	52.5	2.75	34.3	0.00	0.00			271	205
300 ISL	7.42 D	7.39	34.237	26.763	132.4	0.558	0.77	11.4	56.2	2.82	35.2	0.00	0.00			302	
320	7.33	7.30	34.243	26.781	131.0	0.585	0.72	10.7	58.6	2.86	35.7	0.00	0.00			322	204
380	6.89	6.85	34.275	26.868	123.5	0.661	0.51	7.5	65.2	2.99	37.3	0.00	0.00			382	203
400 ISL	6.71 D	6.67	34.271	26.889	121.6	0.685	0.47	6.9	67.4	3.02	37.8	0.00	0.00			403	
440	6.40	6.36	34.285	26.942	116.9	0.733	0.40	5.8	71.9	3.08	38.8	0.00	0.00			443	202
500 ISL	5.95 D	5.91	34.319	27.026	109.3	0.801	0.30	4.3	79.8	3.17	40.2	0.00	0.00			503	
516	5.89	5.85	34.328	27.041	108.1	0.818	0.27	3.9	81.9	3.19	40.6	0.00	0.00			520	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 50.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
32 10.8 N	118 53.6 W	01/08/10	0043	UTC	1471 m	200	06 kn	300 02 07	2	1012.9 mb	17.1 C	15.0 C	11m	8/8	SC		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA			m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	ug/l	db	
0 ISL	17.44	17.44	33.585	24.325	359.1	0.000	5.85	107.0	1.9	0.30	0.0	0.00	0.09	0.57	0.12	0	
2	17.44	17.44	33.585	24.325	359.1	0.007	5.85	107.0	1.9	0.30	0.0	0.00	0.09	0.57	0.12	2	220
10	17.39	17.39	33.581	24.334	358.5	0.036	5.83	106.5	1.9	0.32	0.0	0.00	0.06	0.54	0.15	10	219
20 ISL	14.55 D	14.55	33.607	24.996	295.7	0.069	5.64	97.4	4.7	0.65	4.7	0.21	0.18	0.67	0.24	20	
21	14.49	14.49	33.611	25.012	294.2	0.072	5.62	97.0	5.0	0.70	5.5	0.24	0.19	0.68	0.25	21	218
30	11.83	11.83	33.669	25.589	239.5	0.096	4.37	71.3	14.2	1.37	15.5	0.53	0.06	0.69	0.34	30	217
40	10.66	10.66	33.731	25.849	215.0	0.118	3.43	54.6	21.1	1.75	21.8	0.10	0.04	0.40	0.23	40	216
50 ISL	9.97 D	9.96	33.774	26.001	200.7	0.139	2.98	46.8	25.3	1.90	24.4	0.04	0.00	0.21	0.14	50	
51	9.97	9.96	33.774	26.001	200.7	0.141	2.96	46.4	25.5	1.91	24.5	0.03	0.00	0.20	0.13	51	215
60	9.92	9.91	33.779	26.014	199.7	0.159	2.91	45.6	25.8	1.92	24.7	0.02	0.00	0.19	0.12	60	214
70	9.66	9.65	33.831	26.098	191.9	0.179	2.70	42.1	27.7	2.00	25.7	0.02	0.00	0.08	0.08	70	213
75 ISL	9.63 D	9.62	33.839	26.109	190.9	0.188	2.65	41.3	28.7	2.03	26.2	0.02	0.00	0.05	0.08	75	
86	9.17	9.16	33.881	26.217	180.9	0.209	2.60	40.1	30.9	2.07	27.0	0.01	0.00	0.02	0.07	86	212
100 ISL	8.89 D	8.88	33.938	26.306	172.6	0.233	2.51	38.5	33.0	2.11	27.7	0.01	0.00	0.01	0.07	101	
101	8.89	8.88	33.937	26.305	172.7	0.235	2.50	38.3	33.1	2.11	27.7	0.01	0.00	0.01	0.07	102	211
120	8.76	8.75	34.014	26.386	165.4	0.267	2.27	34.7	35.5	2.19	28.6	0.01	0.00	0.00	0.06	121	210
125 ISL	8.74 D	8.73	34.024	26.397	164.4	0.276	2.18	33.3	36.1	2.22	28.9	0.01	0.00	0.00	0.06	126	
141	8.75	8.74	34.086	26.444	160.3	0.302	1.87	28.6	37.9	2.31	29.7	0.01	0.00	0.00	0.06	142	209
150 ISL	8.75 D	8.73	34.103	26.458	159.2	0.316	1.73	26.5	39.2	2.36	30.1	0.01	0.00	0.00	0.06	151	
171	8.57	8.55	34.150	26.523	153.4	0.349	1.49	22.7	42.2	2.46	31.0	0.02	0.00	0.05	0.17	172	208
200 ISL	8.22 D	8.20	34.158	26.583	148.1	0.392	1.39	21.0	45.3	2.53	32.1	0.04	0.00	0.00	0.04	201	
201	8.23	8.21	34.155	26.579	148.5	0.394	1.39	21.0	45.4	2.53							

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C		THETA		ml/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db	
0 ISL	16.41	16.41	33.573	24.557	336.9	0.000	5.93	106.3	1.5	0.41	1.6	0.06	0.41	0.41	0.15	0	
2	16.41	16.41	33.573	24.557	337.0	0.007	5.93	106.3	1.5	0.41	1.6	0.06	0.41	0.41	0.15	2	221
10	15.94	15.94	33.512	24.618	331.5	0.033	6.02	106.9	1.2	0.40	1.4	0.07	0.42	0.50	0.20	10	219
10	16.05	16.05	33.518	24.598	333.4	0.033											10 220
20	14.70	14.70	33.421	24.821	312.4	0.066	6.48	112.1	0.0	0.30	0.3	0.05	0.18	2.62	0.07	20	218
30 ISL	13.13	D 13.13	33.401	D 25.130	283.2	0.096	5.63	94.3	2.9	0.76	5.2	0.37	1.54	1.37	0.51	30	
31	13.14	13.14	33.409	25.134	282.8	0.098	5.52	92.5	3.3	0.82	5.8	0.40	1.67	1.16	0.55	31	217
40	12.47	12.46	33.463	25.307	266.6	0.123	5.10	84.3	6.3	1.09	9.6	0.48	1.50	0.17	0.28	40	216
50	11.02	11.01	33.406	25.532	245.3	0.149	4.74	75.9	11.0	1.31	14.5	0.39	0.37	0.06	0.15	50	215
60	10.24	10.23	33.414	25.675	231.9	0.173	4.29	67.6	16.1	1.51	18.2	0.08	0.05	0.06	0.13	60	214
70	10.11	10.10	33.464	25.736	226.3	0.195	4.13	64.9	18.5	1.62	19.9	0.06	0.05	0.05	0.14	70	213
75 ISL	9.98	D 9.97	33.499	D 25.785	221.7	0.207	4.01	62.8	19.5	1.66	20.7	0.05	0.05	0.05	0.14	75	
85	9.78	9.77	33.571	25.875	213.4	0.228	3.75	58.5	21.3	1.73	22.0	0.05	0.05	0.05	0.12	85	212
100	9.59	9.58	33.655	25.972	204.4	0.260	3.45	53.6	23.5	1.84	23.7	0.05	0.05	0.03	0.11	100	211
120	9.20	9.19	33.829	26.172	185.8	0.299	3.04	46.9	27.5	1.94	25.2	0.04	0.05	0.05	0.20	121	210
125 ISL	9.11	D 9.10	33.863	D 26.213	182.0	0.308	3.04	46.8	28.1	1.94	25.4	0.04	0.04	0.04	0.17	126	
140	8.78	8.77	33.919	26.309	173.1	0.335	2.99	45.7	30.2	1.97	26.2	0.04	0.00	0.01	0.07	141	209
150 ISL	8.58	D 8.56	33.990	D 26.396	165.0	0.352	2.66	40.5	33.1	2.08	27.5	0.03	0.00	0.02	0.08	151	
170	8.43	8.41	34.092	26.499	155.6	0.384	1.89	28.7	39.6	2.34	30.2	0.02	0.00	0.05	0.10	171	208
200	8.08	8.06	34.149	26.597	146.7	0.429	1.40	21.1	46.1	2.54	32.4	0.02	0.00	0.02	0.05	201	207
230	7.83	7.81	34.190	26.666	140.6	0.472	1.07	16.0	50.6	2.69	33.8	0.02	0.00			231	206
250 ISL	7.74	D 7.72	34.199	D 26.687	139.0	0.500	0.94	14.1	52.7	2.75	34.4	0.02	0.00			251	
273	7.57	7.54	34.223	26.731	135.1	0.531	0.83	12.4	55.2	2.81	35.1	0.02	0.00			275	205
300 ISL	7.27	D 7.24	34.243	D 26.789	129.8	0.567	0.70	10.4	59.4	2.89	36.0	0.01	0.00			302	
320	7.08	7.05	34.250	26.821	127.0	0.593	0.61	9.0	62.6	2.94	36.7	0.01	0.00			322	204
380	6.65	6.62	34.280	26.904	119.8	0.667	0.42	6.1	69.9	3.07	38.1	0.01	0.00			382	203
400 ISL	6.56	D 6.52	34.287	D 26.922	118.4	0.691	0.38	5.5	71.9	3.10	38.4	0.01	0.00			403	
441	6.36	6.32	34.307	26.964	114.8	0.739	0.32	4.6	75.4	3.14	38.9	0.00	0.00			444	202
500 ISL	6.15	D 6.11	34.322	D 27.004	111.7	0.805	0.26	3.7	79.7	3.19	39.5	0.00	0.00			503	
517	6.07	6.02	34.331	27.021	110.2	0.824	0.24	3.5	81.0	3.20	39.7	0.00	0.00			521	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAEAO	PRES	SAMP
m	DEG C	DEG C		THETA		ml/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db	
0 ISL	16.07	16.07	33.145	24.306	360.9	0.000	5.95	105.7	0.8	0.35	0.0	0.01	0.06	0.25	0.05	0	
1	16.07	16.07	33.145	24.306	360.9	0.004	5.95	105.7	0.8	0.35	0.0	0.01	0.06	0.25	0.05	1	220
10	15.88	15.88	33.144	24.349	357.1	0.036	6.06	107.2	0.7	0.36	0.1	0.01	0.05	0.29	0.08	10	219
20	15.65	15.65	33.154	24.408	351.8	0.071	6.10	107.4	0.7	0.36	0.1	0.02	0.07	0.37	0.12	20	218
30	14.83	14.83	33.114	24.557	337.9	0.106	6.22	107.7	1.7	0.38	0.1	0.02	0.04	0.60	0.23	30	217
41	13.82	13.81	33.120	24.774	317.5	0.142	5.98	101.4	3.3	0.54	1.7	0.27	0.12	0.64	0.37	41	216
50	13.15	13.14	33.165	24.944	301.5	0.170	5.64	94.4	4.8	0.68	4.5	0.23	0.07	0.50	0.33	50	215
60	12.08	12.07	33.190	25.170	280.0	0.199	5.34	87.4	6.5	0.84	7.4	0.08	0.00	0.41	0.28	60	214
70	11.63	11.62	33.222	25.279	269.9	0.226	5.20	84.3	8.5	1.03	10.2	0.05	0.00	0.19	0.17	70	213
75 ISL	11.54	D 11.53	33.370	D 25.411	257.5	0.240	5.06	81.9	9.6	1.13	11.9	0.08	0.00	0.14	0.15	75	
85	10.73	10.72	33.328	25.524	246.9	0.265	4.74	75.4	12.1	1.31	15.1	0.12	0.00	0.09	0.13	85	212
100	10.17	10.16	33.403	25.679	232.4	0.301	4.29	67.4	16.5	1.54	18.8	0.01	0.00	0.05	0.08	100	211
120	9.85	9.84	33.550	25.848	216.7	0.346	3.83	59.8	20.1	1.68	21.2	0.02	0.00	0.02	0.07	121	210
125 ISL	9.76	D 9.75	33.574	D 25.881	213.6	0.356	3.67	57.2	21.4	1.73	22.0	0.02	0.00	0.02	0.07	126	
140	9.52	9.50	33.704	26.023	200.5	0.387	3.25	50.5	25.0	1.88	24.4	0.02	0.00	0.03	0.07	141	209
150 ISL	9.29	D 9.27	33.797	D 26.133	190.2	0.407	3.16	48.8	26.5	1.91	25.1	0.02	0.00	0.02	0.06	151	
171	8.87	8.85	33.870	26.257	178.7	0.446	3.07	47.0	28.9	1.94	25.9	0.03	0.00	0.01	0.05	172	208
200 ISL	8.59	D 8.57	33.993	D 26.397	165.8	0.496	2.67	40.7	33.0	2.06	27.5	0.02	0.00	0.01	0.04	201	
201	8.60	8.58	33.993	26.396	166.0	0.497	2.65	40.4	33.2	2.07	27.6	0.02	0.00	0.01	0.04	202	207
230	8.30	8.28	34.069	26.502	156.4	0.544	2.03	30.7	39.5	2.32	30.1	0.00	0.00			231	206
250 ISL	8.13	D 8.10	34.117	D 26.565	150.7	0.575	1.77	26.7	43.2	2.42	31.4	0.00	0.00			251	
270	7.75	7.72	34.118	26.622	145.4	0.604	1.59	23.8	46.7	2.49	32.6	0.00	0.00			272	205
300 ISL	7.29	D 7.26	34.108	D 26.680	140.2	0.647	1.39	20.6	51.8	2.60	34.2	0.00	0.00			302	
320	7.12	7.09	34.129	26.720	136.5	0.675	1.27	18.7	55.0	2.67	35.1	0.00	0.00			322	204
380	6.64	6.61	34.181	26.827	127.0	0.754	0.81	11.8	64.1	2.89	37.5	0.00	0.00			382	203
400 ISL	6.48	D 6.44	34.189	D 26.855	124.6	0.779											

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE	
31 31.1 N	120 14.4 W	01/08/10	1702	UTC	3939 m	290	07 kn	320	05 08	2	1014.8 mb	16.5 C	14.3 C	23m	8/8	ST	
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			m/l	PCT	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	17.00	17.00	33.141	24.089	381.6	0.000	5.65	102.2	2.4	0.35	0.0	0.00	0.00	0.15	0.03	0	
2	17.00	17.00	33.141	24.089	381.6	0.008	5.65	102.2	2.4	0.35	0.0	0.00	0.00	0.15	0.03	2	222
10 ISL	17.00	D 17.00	33.132	D 24.082	382.5	0.038	5.65	102.2	2.4	0.35	0.0	0.00	0.00	0.16	0.02	10	
15	16.99	16.99	33.139	24.090	381.9	0.057	5.65	102.2	2.4	0.35	0.0	0.00	0.00	0.16	0.02	15	221
20 CSL	16.00	16.00	33.094	24.283	363.7	0.076	5.79	102.6	2.4	0.36	0.0	0.00	0.00	0.19	0.03	20	200
30 CSL	15.31	15.31	33.044	24.399	353.0	0.112	6.03	105.4	2.4	0.37	0.0	0.00	0.00	0.27	0.08	30	200
31	15.30	15.30	33.051	24.406	352.3	0.115	5.99	104.7	2.4	0.37	0.0	0.00	0.00	0.28	0.09	31	220
39	14.79	14.78	33.054	24.519	341.7	0.143	6.01	104.0	2.5	0.36	0.0	0.00	0.00	0.36	0.18	39	219
47	14.80	14.79	33.175	24.611	333.2	0.170	5.94	102.8	2.3	0.30	0.0	0.00	0.00	0.33	0.22	47	218
50 ISL	14.82	D 14.81	33.192	D 24.620	332.5	0.180	5.94	102.9	2.3	0.30	0.0	0.00	0.00	0.32	0.22	50	
54	14.87	14.86	33.237	D 24.644	330.3	0.193	5.94	103.0	2.4	0.30	0.0	0.00	0.00	0.31	0.21	54	217
59	14.54	14.53	33.182	24.672	327.8	0.210	5.85	100.7	2.4	0.31	0.0	0.00	0.00	0.30	0.39	59	216
68	13.85	13.84	33.086	24.742	321.3	0.239	5.84	99.1	2.3	0.36	0.1	0.11	0.00	0.30	0.36	68	215
75	13.62	13.61	33.058	24.767	319.0	0.261	5.80	97.9	2.6	0.39	0.3	0.14	0.00	0.24	0.34	75	214
85	13.00	12.99	33.154	24.966	300.3	0.292	5.57	92.9	3.9	0.53	2.5	0.05	0.00	0.13	0.19	85	213
94	11.84	11.83	33.197	25.222	276.0	0.318	5.37	87.4						0.07	0.13	94	212
100 ISL	11.44	D 11.43	33.182	D 25.284	270.2	0.335	5.33	86.0	5.9	0.72	6.0	0.03	0.00	0.06	0.11	100	
110	11.02	11.01	33.212	25.383	260.9	0.361	5.22	83.5	8.1	0.90	9.0	0.01	0.00	0.05	0.10	110	211
124	10.57	10.56	33.350	25.569	243.4	0.397	4.69	74.4	13.8	1.30	15.1	0.00	0.00	0.02	0.05	125	210
125 ISL	10.49	D 10.48	33.370	D 25.599	240.6	0.399	4.65	73.6	14.1	1.32	15.4	0.00	0.00	0.02	0.05	126	
145	9.69	9.67	33.530	25.859	216.1	0.445	3.99	62.1	19.6	1.58	19.9	0.01	0.00	0.00	0.02	146	209
150 ISL	9.50	D 9.48	33.529	D 25.889	213.3	0.455	3.89	60.3	20.5	1.62	20.6	0.01	0.00	0.00	0.02	151	
170	9.38	9.36	33.737	26.072	196.4	0.496	3.52	54.5	23.6	1.75	22.8	0.00	0.00	0.00	0.02	171	208
199	9.06	9.04	33.941	26.283	176.8	0.550	2.78	42.8	29.9	1.99	26.3	0.00	0.00	0.00	0.02	200	207
200 ISL	9.03	D 9.01	33.943	D 26.289	176.2	0.552	2.77	42.6	30.0	1.99	26.4	0.00	0.00			201	
230	8.66	8.64	33.996	26.389	167.2	0.604	2.58	39.4	33.3	2.07	27.7	0.00	0.00			231	206
250 ISL	8.07	D 8.04	34.024	D 26.501	156.7	0.636	2.41	36.3	37.4	2.17	29.3	0.00	0.00			251	
271	7.81	7.78	34.038	26.550	152.2	0.669	2.19	32.8	42.3	2.29	31.1	0.00	0.00			272	205
300 ISL	7.42	D 7.39	34.062	D 26.626	145.4	0.712	1.78	26.4	48.9	2.47	33.4	0.00	0.00			302	
320	7.15	7.12	34.092	26.687	139.7	0.740	1.50	22.1	53.2	2.59	34.8	0.00	0.00			322	204
380	6.57	6.54	34.123	26.791	130.4	0.821	1.05	15.3	63.0	2.81	37.5	0.00	0.00			382	203
400 ISL	6.42	D 6.38	34.132	D 26.818	128.0	0.847	0.96	13.9	66.3	2.87	38.2	0.00	0.00			402	
441	5.99	5.95	34.146	26.884	121.9	0.898	0.79	11.3	72.7	2.98	39.5	0.00	0.00			444	202
500 ISL	5.83	D 5.79	34.233	D 26.973	114.2	0.968	0.50	7.2	79.2	3.09	40.6	0.00	0.00			503	
515	5.72	5.68	34.237	26.990	112.6	0.985	0.42	6.0	80.8	3.12	40.9	0.00	0.00			518	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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 11.2 N	120 56.0 W	02/08/10	0014	UTC	3878 m	290	12 kn	320	03 08	2	1013.3 mb	17.3 C	15.0 C	19m	8/8	SC	
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			m/l	PCT	um/l	um/l	um/l	um/l	um/l	um/l	ug/l	ug/l	db	
0 ISL	17.82	17.82	33.246	23.974	392.5	0.000	5.57	102.4	2.2	0.32	0.0	0.00	0.05	0.17	0.03	0	
2	17.82	17.82	33.246	23.974	392.6	0.008	5.57	102.4	2.2	0.32	0.0	0.00	0.05	0.17	0.03	2	220
10 ISL	17.81	D 17.81	33.243	D 23.974	392.8	0.039	5.56	102.2	2.3	0.32	0.0	0.00	0.05	0.16	0.03	10	
11	17.81	17.81	33.245	23.976	392.7	0.043	5.56	102.2	2.3	0.32	0.0	0.00	0.05	0.16	0.03	11	219
20 ISL	16.73	D 16.73	33.179	D 24.182	373.4	0.078	5.73	103.1	2.4	0.33	0.0	0.00	0.07	0.18	0.04	20	
25	16.46	16.46	33.165	24.234	368.6	0.096	5.84	104.5	2.4	0.33	0.0	0.00	0.08	0.20	0.05	25	218
30 ISL	16.27	D 16.27	33.152	D 24.267	365.5	0.115	5.86	104.5	2.4	0.33	0.0	0.00	0.05	0.24	0.07	30	
40	15.72	15.71	33.143	24.385	354.6	0.151	5.90	104.0	2.3	0.34	0.0	0.00	0.00	0.31	0.13	40	217
50	15.31	15.30	33.137	24.471	346.7	0.186	5.91	103.3	2.3	0.35	0.0	0.00	0.00	0.35	0.24	50	216
62	14.75	14.74	33.134	24.590	335.6	0.227	5.84	101.0	2.6	0.42	0.2	0.11	0.16	0.42	0.41	62	215
75	14.23	14.22	33.128	24.696	325.9	0.270	5.66	96.8	3.0	0.50	1.2	0.58	0.04	0.18	0.20	75	214
88	13.83	13.82	33.150	24.796	316.7	0.311	5.60	95.0	3.4	0.57	2.8	0.02	0.00	0.10	0.12	88	213
100 ISL	13.42	D 13.41	33.185	D 24.907	306.4	0.349	5.58	93.9	4.2	0.64	4.0	0.01	0.00	0.07	0.07	100	
101	13.47	13.46	33.173	24.887	308.3	0.352	5.58	94.0	4.3	0.65	4.1	0.01	0.00	0.07	0.07	101	212
112	12.50	12.49	33.165	25.073	290.8	0.385	5.43	89.6	5.7	0.77	6.2	0.01	0.00	0.04	0.05	112	211
125	11.91	11.89	33.221	25.228	276.2	0.422	5.28	86.1	7.4	0.92	8.6	0.01	0.00	0.03	0.05	126	210
141	11.30	11.28	33.261	25.371	262.8	0.465	5.08	81.8	9.8	1.09	11.4	0.01	0.00	0.01	0.03	142	209
150 ISL	10.68	D 10.66	33.345	D 25.547	246.1	0.488	4.83	76.7	12.1	1.21	13.6						

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.54	18.54	33.319	23.853	404.1	0.000	5.48	102.2	2.2	0.33	0.0	0.00	0.00	0.11	0.02	0	
2	18.54	18.54	33.319	23.853	404.1	0.008	5.48	102.2	2.2	0.33	0.0	0.00	0.00	0.11	0.02	2	220
10	18.54	18.54	33.319	23.854	404.4	0.040	5.47	102.0	2.1	0.33	0.0	0.00	0.05	0.10	0.02	10	219
20 ISL	18.19	D 18.19	33.273	D 23.905	399.8	0.081	5.58	103.3	2.2	0.33	0.0	0.00	0.05	0.13	0.03	20	
25	17.89	17.89	33.265	23.973	393.5	0.100	5.65	104.0	2.3	0.33	0.0	0.00	0.05	0.15	0.03	25	218
30 ISL	17.44	D 17.44	33.223	D 24.049	386.4	0.120	5.69	103.8	2.2	0.33	0.0	0.00	0.05	0.13	0.03	30	
40	16.69	16.68	33.172	D 24.186	373.6	0.158	5.85	D105.2	2.1	0.33	0.0	0.00	0.04	0.11	0.03	40	217
50	16.43	16.42	33.180	24.253	367.6	0.195	5.82	104.1	2.2	0.32	0.0	0.00	0.05	0.19	0.06	50	216
62	15.59	15.58	33.159	24.427	351.3	0.238	5.95	104.6	2.2	0.34	0.0	0.00	0.06	0.31	0.15	62	215
75	14.89	14.88	33.205	24.615	333.6	0.283	5.83	101.1	2.5	0.36	0.0	0.01	0.04	0.26	0.20	75	214
88	13.83	13.82	33.168	D 24.810	315.3	0.325	5.70	96.7	3.6	0.58	2.3	0.51	0.07	0.29	0.27	88	213
100	12.73	12.72	33.182	25.041	293.5	0.361	5.40	89.6	5.0	0.66	4.1	0.16	0.05	0.16	0.22	100	212
113	11.62	11.61	33.198	25.263	272.4	0.398	5.05	81.8	7.9	0.93	8.8	0.04	0.08	0.11	0.18	113	211
125 ISL	10.73	D 10.72	33.256	D 25.468	253.1	0.430	4.96	78.9	10.1	1.07	11.5	0.01	0.04	0.07	0.14	126	
126	10.81	10.79	33.249	25.449	254.9	0.432	4.95	78.8	10.3	1.08	11.7	0.01	0.04	0.07	0.14	127	210
140	10.22	10.20	33.325	25.610	239.8	0.467	4.64	73.0	13.6	1.29	15.1	0.00	0.06	0.04	0.06	141	209
150 ISL	10.00	D 9.98	33.447	D 25.743	227.4	0.490	4.38	68.6	15.9	1.41	17.2	0.00	0.04	0.03	0.05	151	
170	9.66	9.64	33.581	25.904	212.4	0.534	3.86	60.1	20.3	1.62	20.6	0.00	0.00	0.01	0.03	171	208
200 ISL	9.31	D 9.29	33.854	D 26.175	187.2	0.594	3.16	48.9	26.4	1.85	24.3	0.00	0.00	0.03	0.03	201	
201	9.32	9.30	33.848	26.169	187.8	0.596	3.14	48.6	26.6	1.86	24.4	0.00	0.00	0.00	0.03	202	207
230	8.81	8.79	33.971	26.347	171.3	0.648	2.77	42.4	31.4	2.00	26.7	0.00	0.00			231	206
250 ISL	8.50	D 8.47	34.011	D 26.426	164.0	0.682	2.57	39.1	35.4	2.10	28.1	0.00	0.00			251	
271	8.15	8.12	34.038	26.500	157.2	0.715	2.37	35.7	39.7	2.20	29.5	0.00				272	205
300 ISL	7.72	D 7.69	34.066	D 26.586	149.3	0.760	1.99	29.7	45.3	2.36	31.5	0.00	0.00			302	
321	7.56	7.53	34.084	26.623	146.1	0.791	1.72	25.6	49.2	2.48	32.9	0.00				323	204
380	6.91	6.87	34.111	26.736	135.9	0.874	1.21	17.7	58.6	2.73	36.0	0.00	0.00			382	203
400 ISL	6.64	D 6.60	34.126	D 26.784	131.4	0.901	1.06	15.4	62.7	2.81	37.0	0.00	0.00			402	
441	6.21	6.17	34.148	26.858	124.6	0.953	0.81	11.7	70.8	2.95	38.8	0.00	0.00			444	202
500 ISL	5.81	D 5.77	34.190	D 26.942	117.1	1.025	0.57	8.1	78.5	3.06	40.1	0.00	0.00			503	
516	5.75	5.71	34.207	26.963	115.3	1.043	0.51	7.3	80.6	3.09	40.4	0.00	0.00			519	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 100.0

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	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP	
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db			
0 ISL	18.64	18.64	33.329	23.836	405.7	0.000	5.48	102.4	2.2	0.33	0.0	0.00	0.00	0.13	0.03	0		
2	18.64	18.64	33.329	23.836	405.8	0.008	5.48	102.4	2.2	0.33	0.0	0.00	0.00	0.13	0.03	2	220	
10	18.63	18.63	33.327	23.837	405.9	0.041	5.47	102.2	2.2	0.33	0.0	0.00	0.00	0.14	0.03	10	219	
20	16.42	16.42	33.193	24.264	365.5	0.079	6.06	108.4	2.0	0.34	0.0	0.00	0.00	0.21	0.06	20	218	
30	15.06	15.06	33.168	24.549	338.7	0.114	6.02	104.8		3.0	0.44	0.3	0.08	0.00	0.64	0.50	40	216
40	14.04	14.03	33.171	24.767	318.0	0.147	6.01	102.4		1.31	1.38	1.20	0.00	0.00	0.04	0.08	100	
50 ISL	13.23	D 13.22	33.168	D 24.930	302.8	0.178	5.68	95.2	4.2	0.61	3.2	0.15	0.00	0.52	0.45	50		
51	13.25	13.24	33.174	24.931	302.7	0.181	5.64	94.6	4.3	0.63	3.5	0.15	0.00	0.50	0.45	51	215	
60	12.57	12.56	33.187	25.075	289.2	0.208	5.44	89.9	5.5	0.78	6.1	0.07	0.00	0.35	0.31	60	214	
70	12.20	12.19	33.194	25.151	282.2	0.236	5.37	88.1	6.4	0.85	7.3	0.03	0.00	0.23	0.29	70	213	
75 ISL	11.86	D 11.85	33.188	D 25.210	276.6	0.250	5.31	86.5	6.9	0.89	7.9	0.03	0.00	0.18	0.25	75		
85	11.45	11.44	33.200	25.295	268.7	0.278	5.16	83.3	8.3	0.98	9.5	0.02	0.00	0.10	0.15	85	212	
100 ISL	10.63	D 10.62	33.280	D 25.504	249.1	0.317	4.93	78.2	11.4	1.19	13.0	0.00	0.00	0.04	0.08	100		
101	10.66	10.65	33.275	25.495	250.0	0.319	4.91	78.0	11.6	1.20	13.2	0.00	0.00	0.04	0.08	101	211	
120	10.08	10.07	33.381	25.677	232.9	0.365	4.59	72.0	14.4	1.31	15.6	0.00	0.00	0.04	0.06	121	210	
125 ISL	10.01	D 10.00	33.473	D 25.761	225.1	0.376	4.43	69.4	15.7	1.38	16.7	0.00	0.00	0.03	0.05	126		
139	9.72	9.70	33.575	25.889	213.2	0.407	3.97	61.9	19.7	1.60	20.0	0.00	0.00	0.01	0.03	140	209	
150 ISL	9.51	D 9.49	33.671	D 25.999	202.9	0.430	3.73	57.9	22.1	1.70	21.7	0.00	0.00	0.01	0.03	151		
170	9.16	9.14	33.806	26.161	187.8	0.469	3.40	52.4	25.7	1.82	23.8	0.00	0.00	0.00	0.04	171	208	
200 ISL	8.71	D 8.69	33.947	D 26.343	171.1	0.523	3.03	46.3	30.5	1.96	26.0	0.00	0.00	0.00	0.02	201		
201	8.72	8.70	33.951	26.344	170.9	0.525	3.02	46.1	30.7	1.96	26.1	0.00	0.00	0.00	0.02	202	207	
231	8.43	8.41	34.043	26.462	160.3	0.574	2.46	37.3	36.4	2.16	28.6	0.00				232	206	
250 ISL	8.05	D 8.02	34.042	D 26.518	155.1	0.604	2.22	33.4	40.3	2.27	30.1	0.00	0.00			251		
270	7.78	7.75	34.065	26.576	149.8	0.635	2.00	29.9	44.5	2.38	31.7	0.00	0.00			271	205	
300 ISL	7.37	D 7.34	34.095	D 26.659	142.2	0.678	1.58	23.4	50.7	2.56	33.8	0.00	0.00			302		
320	7.16	7.13	34.															

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.56	18.56	33.291	23.827	406.6	0.000	5.48	102.2	2.2	0.32	0.0	0.00	0.07	0.12	0.02	0	
2	18.56	18.56	33.291	23.827	406.6	0.008	5.48	102.2	2.2	0.32	0.0	0.00	0.07	0.12	0.02	2	222
10 ISL	18.52 D	18.52	33.285 D	23.833	406.4	0.041	5.50	102.5	2.1	0.32	0.0	0.00	0.07	0.13	0.02	10	
15	18.50	18.50	33.288	23.840	405.8	0.061	5.52	102.8	2.1	0.32	0.0	0.00	0.07	0.13	0.02	15	221
20 CSL	18.13	18.13	33.242	23.896	400.6	0.081	5.54	102.5	2.1	0.32	0.0	0.00	0.07	0.14	0.03	20	200
30 CSL	16.97	16.97	33.192	24.136	378.1	0.120	5.85	105.8	2.1	0.32	0.0	0.00	0.07	0.18	0.05	30	200
31	16.84	16.83	33.198	24.171	374.7	0.124	5.87	105.9	2.1	0.32	0.0	0.00	0.06	0.18	0.05	31	220
39	15.92	15.91	33.151	24.346	358.3	0.153	5.97	105.7	2.2	0.33	0.0	0.00	0.06	0.23	0.07	39	219
47	15.58	15.57	33.168	24.435	350.0	0.181	6.00	105.5	2.1	0.34	0.0	0.00	0.05	0.26	0.11	47	218
50 ISL	15.47 D	15.46	33.143 D	24.440	349.6	0.192	6.00	105.3	2.2	0.34	0.0	0.00	0.06	0.29	0.12	50	
54	15.36	15.35	33.153	24.472	346.7	0.206	5.99	104.9	2.3	0.35	0.0	0.00	0.07	0.32	0.13	54	223
60	15.09	15.08	33.172	24.546	339.8	0.226	5.97	104.0	2.2	0.35	0.0	0.00	0.06	0.28	0.20	60	216
68	14.52	14.51	33.155	24.656	329.5	0.253	5.84	100.5	2.5	0.41	0.2	0.09	0.13	0.28	0.23	68	215
75 ISL	14.19 D	14.18	33.184 D	24.747	321.0	0.276	5.76	98.5	2.8	0.41	0.3	0.08	0.10	0.26	0.27	75	
77	14.10	14.09	33.184	24.766	319.2	0.282	5.74	98.0	2.9	0.41	0.3	0.07	0.09	0.25	0.28	77	214
85	13.42	13.41	33.206	24.922	304.5	0.307	5.56	93.6	3.9	0.55	1.8	0.14	0.08	0.21	0.28	85	213
95	12.63	12.62	33.227	25.095	288.2	0.337	5.38	89.1	5.2	0.66	4.4	0.09	0.08	0.20	0.20	95	
100 ISL	12.05 D	12.04	33.242 D	25.217	276.6	0.351	5.32	87.0	5.8	0.72	5.6	0.06	0.07	0.18	0.20	100	
110	11.50	11.49	33.250	25.326	266.4	0.378	5.21	84.2	7.1	0.83	7.7	0.02	0.05	0.14	0.19	110	211
125	10.69	10.68	33.341	25.542	246.1	0.417	5.03	79.9	9.7	0.99	10.7	0.01	0.04	0.08	0.12	126	210
146	9.78	9.76	33.480	25.805	221.3	0.466	4.43	69.1	16.2	1.37	16.9	0.00	0.03	0.03	0.05	147	209
150 ISL	9.58 D	9.56	33.578 D	25.915	210.9	0.474	4.31	66.9	17.6	1.43	17.9	0.00	0.00	0.02	0.04	151	
170	9.10	9.08	33.800	26.166	187.3	0.514	3.70	56.9	24.1	1.68	22.3	0.00	0.00	0.02	0.02	171	208
200	8.60	8.58	33.968	26.376	167.8	0.568	2.93	44.6	31.9	1.96	26.4	0.00	0.00	0.01	0.01	201	207
231	8.34	8.32	34.043	26.475	158.9	0.618	2.28	34.5	37.7	2.20	29.2	0.00	0.00	0.00	0.00	232	206
250 ISL	8.09 D	8.06	34.077 D	26.540	153.1	0.648	1.98	29.8	41.2	2.32	30.6	0.00	0.00	0.00	0.00	251	
270	7.97	7.94	34.108	26.582	149.4	0.678	1.70	25.5	44.8	2.43	31.8	0.00	0.00	0.00	0.00	271	205
300 ISL	7.80 D	7.77	34.166 D	26.653	143.1	0.722	1.28	19.2	49.6	2.60	33.4	0.00	0.00	0.00	0.00	302	
319	7.62	7.59	34.188	26.697	139.2	0.749	1.06	15.8	52.4	2.69	34.2	0.00	0.00	0.00	0.00	321	204
381	7.01	6.97	34.219	26.807	129.3	0.832	0.74	10.9	61.1	2.86	36.5	0.00	0.00	0.00	0.00	383	203
400 ISL	6.89 D	6.85	34.222 D	26.826	127.7	0.856	0.66	9.7	63.4	2.91	37.0	0.00	0.00	0.00	0.00	402	
440	6.66	6.62	34.260	26.888	122.3	0.906	0.52	7.6	68.1	3.01	37.8	0.00	0.00	0.00	0.00	443	202
500 ISL	6.17 D	6.13	34.283 D	26.970	114.9	0.978	0.38	5.5	75.7	3.10	39.3	0.00	0.00	0.00	0.00	503	
515	6.08	6.03	34.287	26.985	113.6	0.995	0.35	5.0	77.6	3.12	39.7	0.00	0.00	0.00	0.00	518	201

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

RV NEW HORIZON

CALCOFI CRUISE 1008

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	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	NH4	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C	THETA		m/l	PCT	uM/l	uM/l	uM/l	uM/l	uM/l	uM/l	ug/l	ug/l	db		
0 ISL	18.85	18.85	33.291	23.754	413.5	0.000	5.45	102.2	2.3	0.32	0.0	0.00	0.08	0.10	0.02	0	
2	18.85	18.85	33.291	23.754	413.5	0.008	5.45	102.2	2.3	0.32	0.0	0.00	0.08	0.10	0.02	2	220
10 ISL	18.83	18.83	33.291	23.760	413.3	0.041	5.46	102.4	2.2	0.33	0.0	0.00	0.09	0.10	0.02	10	219
20 ISL	18.72 D	18.72	33.290 D	23.787	411.1	0.083	5.49	102.7	2.3	0.32	0.0	0.00	0.09	0.11	0.03	20	
25	18.37	18.37	33.262	23.853	405.0	0.103	5.53	102.8	2.4	0.31	0.0	0.00	0.08	0.12	0.03	25	218
30 ISL	18.08 D	18.07	33.247 D	23.913	399.4	0.123	5.62	103.8	2.4	0.31	0.0	0.00	0.08	0.12	0.03	30	
40	16.96	16.95	33.211	24.153	376.7	0.162	5.79	104.7	2.3	0.31	0.0	0.00	0.07	0.12	0.03	40	217
50 ISL	16.30 D	16.29	33.191 D	24.291	363.9	0.199	5.83	104.0	2.3	0.32	0.0	0.00	0.06	0.18	0.07	50	
51	16.25	16.24	33.195	24.306	362.6	0.203	5.83	103.9	2.3	0.32	0.0	0.00	0.06	0.19	0.07	51	216
62	15.85	15.84	33.172	24.379	355.9	0.242	5.84	103.3	2.4	0.33	0.0	0.00	0.09	0.26	0.10	62	215
75 ISL	15.49 D	15.48	33.193 D	24.475	347.0	0.288	5.87	103.0	2.2	0.32	0.0	0.00	0.09	0.27	0.13	75	
76	15.51	15.50	33.182	24.462	348.3	0.291	5.87	103.1	2.2	0.32	0.0	0.00	0.09	0.27	0.13	76	214
87	15.48	15.47	33.352	24.600	335.5	0.329	5.81	102.1	2.2	0.28	0.0	0.00	0.07	0.25	0.22	87	213
100	14.31	14.30	33.185	24.724	324.0	0.372	5.73	98.2	2.7	0.39	0.2	0.27	0.09	0.26	0.21	100	212
113	13.18	13.16	33.201	24.967	300.9	0.412	5.50	92.1	4.5	0.59	2.7	0.21	0.10	0.16	0.20	113	211
125 ISL	11.87 D	11.85	33.197 D	25.217	277.2	0.447	5.18	84.4	6.8	0.83	7.1	0.05	0.06	0.13	0.16	125	
126	11.86	11.84	33.200	25.221	276.8	0.450	5.15	83.9	7.0	0.85	7.5	0.04	0.06	0.13	0.16	126	210
142	10.68	10.66	33.244	25.468	253.4	0.492	4.90	77.8	10.7	1.09	11.9	0.01	0.04	0.08	0.13	143	209
150 ISL	10.42 D	10.40	33.305 D	25.561	244.7	0.512	4.64	73.3	13.0	1.23	14.2	0.01	0.04	0.06	0.10	151	
169	9.90	9.88	33.537	25.830	219.4	0.556	4.02	62.9	18.2	1.51	18.9	0.00	0.04	0.02	0.04	170	208
200	9.19	9.17	33.774	26.132	191.2	0.620	3.69	56.9	23.8	1.70	22.4	0.00	0.04				

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 76.7 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34 43.3 N	121 33.0 W	15/08/10	1903 UTC	9 m	1215 - 1920 PST	1211 PST	1919 PST	375.3 mg C/m ²

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/l	P04 uM/l	N03 uM/l	N02 uM/l	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³)		
													2	MEAN	DARK	
2	14.26	33.474	24.954	5.93	101.7	2.6	0.63	4.7	0.28	0.93	0.17	71. A	23.4	22.1	22.8	0.22
6	14.25	33.470	24.953	5.93	101.7	2.6	0.63	4.7	0.28	0.80	0.27	36.	26.5	26.2	26.3	0.22
12	14.24	33.472	24.957	5.94	101.9	2.6	0.63	4.7	0.28	0.92	0.30	13.	15.9	15.6	15.8	0.21
19	14.23	33.477	24.964	5.93	101.7	2.4	0.62	4.6	0.28	0.90	0.29	3.9	7.1	5.4	6.2	0.20
23	14.22	33.473	24.963	5.93	101.7	2.4	0.62	4.6	0.28	0.84	0.37	2.0	2.4	2.1	2.2	0.29
33	12.60	33.432	25.258	5.28	87.5	6.7	1.00	9.9	0.42	0.74	0.29	0.36	0.08	0.08	0.08	0.08

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 76.7 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 23.3 N	124 19.3 W	14/08/10	1738 UTC	20 m	1225 - 1926 PST	1222 PST	1926 PST	246.2 mg C/m ²

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/l	P04 uM/l	N03 uM/l	N02 uM/l	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³)		
													2	MEAN	DARK	
2	16.30	32.949	24.103	5.77	102.8	2.7	0.35	0.0	0.00	0.18	0.04	86. A	3.4	3.0	3.2	0.05
12	16.00	32.948	24.171	5.85	103.6	2.7	0.34	0.0	0.00	0.21	0.06	40.	5.0	5.0	5.0	0.08
20	15.81	32.960	24.223	5.83	102.9	2.7	0.34	0.0	0.00	0.26	0.07					
27	15.71	32.960	24.246	5.84	102.8	2.6	0.35	0.0	0.00	0.30	0.10	13.	3.7	3.9	3.8	0.12
34	15.40	32.965	24.318	5.90	103.3	2.6	0.34	0.0	0.00	0.41	0.11					
42	14.33	32.927	24.519	6.09	104.3	2.8	0.37	0.0	0.01	0.62	0.32	4.0	4.3	3.9	4.1	0.06
53	13.10	32.854	24.713	6.04	100.8	3.6	0.47	1.0	0.25	0.89	0.37	1.7	2.9	3.3	3.1	0.03
63	13.17	32.996	24.809	5.74	96.0	4.2	0.57	2.7	0.26	0.44	0.39					
74	12.34	33.025	24.994	5.58	91.7	5.8	0.72	5.7	0.04	0.20	0.17	0.34	0.15	0.11	0.13	0.01

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 80.0 51.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34 27.0 N	120 31.4 W	12/08/10	1903 UTC	7 m	1210 - 1920 PST	1207 PST	1920 PST	1198.4 mg C/m ²

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/l	P04 uM/l	N03 uM/l	N02 uM/l	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³)		
													2	MEAN	DARK	
1	12.78	33.639	25.383	5.38	89.6	9.8	0.98	9.1	0.30	8.81	0.19	80. A	119.0	143.6	131.3	0.44
5	12.82	33.635	25.372	5.40	90.0	9.7	1.01	9.0	0.30	7.46	1.11	33.	142.6	148.3	145.5	0.59
10	11.73	33.631	25.577	3.93	64.0	15.0	1.44	15.6	0.39	3.11	0.60	11.	28.8	27.2	28.0	0.23
14	11.22	33.646	25.682	3.36	54.1	18.9	1.69	18.9	0.41	1.02	0.47	4.6	4.6	4.4	4.5	0.12
18	10.87	33.682	25.773	3.03	48.5	21.9	1.81	20.8	0.36	0.57	0.44	1.9	0.87	0.90	0.89	0.09
26	10.30	33.734	25.913	2.66	42.0	24.8	1.96	23.8	0.18	0.19	0.33	0.33	0.12	0.09	0.11	0.02

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 80.0 80.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 28.9 N	122 31.9 W	13/08/10	1856 UTC	15 m	1215 - 1929 PST	1215 PST	1927 PST	468.1 mg C/m ²

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/l	P04 uM/l	N03 uM/l	N02 uM/l	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³)		
													2	MEAN	DARK	
2	14.87	32.982	24.445	6.17	106.9	3.2	0.45	0.9	0.06	0.43	0.08	81. A	14.8	13.8	14.3	0.10
10	14.70	32.991	24.489	6.15	106.1	3.4	0.45	0.9	0.06	0.63	0.11	36.	22.0	18.5	20.2	0.14
20	14.55	33.088	24.596	6.20	106.7	3.4	0.52	2.1	0.12	0.83	0.17	13.	12.4	12.6	12.5	0.12
31	12.86	32.907	24.801	6.08	101.0	4.8	0.63	3.1	0.28	0.65	0.29	4.2	6.0	5.0	5.5	0.08
39	12.01	32.864	24.930	5.88	95.9	5.6	0.74	4.5	0.38	0.37	0.24	1.8	1.1	1.4	1.3	0.03
47	11.86	32.912	24.995	5.73	93.2	6.2	0.76	5.5	0.27	0.29	0.21					
55	11.45	33.059	25.185	5.40	87.1	8.5	0.96	9.2	0.05	0.18	0.17	0.36	0.21	0.14	0.18	0.05

A) INCUBATION LIGHT INTENSITIES WERE 89, 37, 12 4.3, 1.9, 0.35 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 83.3 55.0

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	15.70	33.528	24.684	5.81	102.7	2.2	0.44	2.1	0.10	1.33	0.42	71. A	39.3	37.0	38.2	0.23
6	15.22	33.527	24.789	5.78	101.1	2.6	0.48	2.8	0.11	1.57	0.46	36.	59.9	54.4	57.2	0.27
12	14.57	33.537	24.938	5.71	98.6	3.8	0.58	4.1	0.13	3.09	0.37	13.	63.8	67.1	65.5	0.26
19	14.15	33.539	25.028	5.49	94.0	5.2	0.70	5.7	0.15	2.33	0.82	3.9	25.6	22.8	24.2	0.19
23	13.76	33.536	25.107	5.28	89.7	6.5	0.78	7.1	0.17	2.18	0.70	2.0	12.3	12.7	12.5	0.20
33	10.92	33.591	25.694	3.67	58.7	17.7	1.56	19.1	0.18	0.79	0.52	0.36	0.20	0.12	0.16	0.06

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 83.3 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
2	16.95	33.184	24.134	5.62	101.6	2.4	0.32	0.1	0.00	0.11	0.03	89. A	2.1	2.0	2.0	0.02
10	16.95	33.182	24.132	5.61	101.4	2.4	0.32	0.0	0.00	0.12	0.03	38.	2.4	2.4	2.4	0.02
17	16.95	33.182	24.133	5.60	101.2	2.4	0.32	0.0	0.00	0.12	0.03					
27	16.95	33.181	24.132	5.61	101.4	2.4	0.32	0.0	0.00	0.14	0.03					
37	16.70	33.178	24.189	5.66	101.8	2.4	0.31	0.0	0.00	0.19	0.05	12.	1.9	0.02	0.97	0.02
45	15.47	33.180	24.469	5.96	104.6	2.5	0.28	0.0	0.00	0.20	0.06					
55	15.25	33.245	24.567	5.96	104.2	2.4	0.26	0.0	0.00	0.21	0.05	4.4	0.70	0.63	0.66	0.05
63	15.17	33.290	24.620	5.91	103.2	2.5	0.25	0.0	0.00	0.21	0.07					
70	14.86	33.301	24.696	5.85	101.5	2.6	0.26	0.0	0.00	0.19	0.10	1.9	0.34	0.40	0.37	0.03
80	14.54	33.316	24.776	5.82	100.3	2.7	0.25	0.0	0.00	0.25	0.18					
90	13.89	33.280	24.884	5.74	97.6	3.1	0.30	0.2	0.10	0.31	0.16					
100	13.41	33.266	24.971	5.64	94.9	3.6	0.37	1.1	0.15	0.25	0.17	0.34	0.05	0.04	0.05	0.00

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 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
1	16.39	33.455	24.471	6.54	117.1	2.2	0.31	0.0	0.00	1.12	0.26	83. A	25.0	25.2	25.1	0.35
5	16.32	33.461	24.492	6.55	117.1	2.2	0.31	0.0	0.00	1.22	0.32	38.	42.0	41.2	41.6	0.37
10	15.61	33.457	24.650	6.72	118.5	1.9	0.30	0.0	0.01	2.06	0.57	15.	45.4	45.8	45.6	0.39
16	13.71	33.452	25.052	6.41	108.7	2.6	0.37	0.3	0.03	1.93	0.48	4.6	20.8	17.9	19.4	0.27
21	12.01	33.412	25.355	4.93	80.7	9.5	1.08	9.9	0.42	1.08	0.56	1.8	5.6	6.2	5.9	0.12
29	11.27	33.452	25.523	4.31	69.4	13.3	1.33	14.6	0.37	0.62	0.39	0.38	0.23	0.13	0.18	0.05

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 70.0

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	15.79	33.005	24.262	5.90	104.1	2.9	0.40	0.5	0.04	0.37	0.11	84. A	12.9	9.1	11.0	0.08
12	15.64	33.032	24.316	5.88	103.5	2.5	0.41	0.5	0.05	0.37	0.08	36.	13.0	10.4	11.7	0.09
24	13.15	32.917	24.751	6.13	102.4	5.2	0.56	2.3	0.31	0.57	0.28	13.	13.1	14.0	13.6	0.11
30	13.38	33.045	24.805	6.17	103.7	7.1	0.67	4.3	0.18	0.73	0.24					
37	13.46	33.178	24.891	5.94	100.1	9.7	0.85	6.9	0.26	0.75	0.39	4.3	8.1	7.2	7.6	0.06
47	12.24	33.038	25.022	5.67	93.0	7.5	0.84	6.7	0.45	0.55	0.31	1.8	2.9	3.0	3.0	0.03
56	11.43	33.082	25.207	5.47	88.2	10.0	1.04	10.3	0.17	0.30	0.19					
66	10.91	33.171	25.369	5.27	84.1	12.9	1.21	13.4	0.12	0.19	0.12	0.36	0.11	0.07	0.09	0.04

A) INCUBATION LIGHT INTENSITIES WERE 89, 37, 12 4.3, 1.9, 0.35 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 86.7 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31 39.4 N	123 4.7 W	09/08/10	1724 UTC	33 m	1220 - 1934 PST	1218 PST	1932 PST	120.7 mg C/m ²
DEPTH TEMP SALINITY SIGMA OXYGEN OXY SI03 PO4 NO3 NO2 CHL-A PHAEOL LIGHT UPTAKE (mg C/m³)								
m DEG C THETA ml/l PCT uM/l uM/l uM/l ug/l ug/l PCT 1 2 MEAN DARK								
3 17.64 33.268 24.034 5.55 101.7 2.3 0.30 0.1 0.00 0.11 0.00 87. A 1.8 1.7 1.7 0.05								
10 17.62 33.266 24.038 5.57 102.0 2.3 0.30 0.0 0.00 0.08 0.02 38. 1.9 1.9 1.9 0.05								
21 17.59 33.263 24.043 5.54 101.4 2.3 0.29 0.0 0.00 0.08 0.02 22. 1.4 1.4 1.4 0.06								
33 17.59 33.270 24.049 5.54 101.4 2.3 0.29 0.0 0.00 0.08 0.02 22. 1.4 1.4 1.4 0.06								
45 16.92 33.249D 24.192 5.73 103.5 2.3 0.28 0.0 0.00 0.13 0.04 4.4 0.82 0.73 0.77 0.03								
56 16.71 33.269 24.257 5.69 102.4 2.3 0.28 0.0 0.00 0.13 0.04 1.8 0.60 0.69 0.64 0.01								
67 15.88 33.197 24.391 5.83 103.1 2.3 0.30 0.0 0.00 0.17 0.06 4.4 0.82 0.73 0.77 0.03								
86 15.37 33.275 24.565 5.86 102.7 2.3 0.27 0.0 0.00 0.24 0.13 1.8 0.60 0.69 0.64 0.01								
95 14.72 33.220 24.664 5.85 101.1 2.6 0.29 0.0 0.01 0.23 0.16 104 14.14 33.197 24.769 5.68 97.0 3.0 0.40 0.4 0.17 0.23 0.18 113 13.20 33.175 24.943 5.53 92.6 4.0 0.53 2.2 0.19 0.20 0.14 122 12.94 33.248 25.052 5.48 91.3 4.5 0.54 3.2 0.09 0.16 0.15 0.34 0.12 0.07 0.09 0.02								

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 37.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 11.2 N	118 23.1 W	05/08/10	1811 UTC	13 m	1203 - 1915 PST	1200 PST	1913 PST	671.9 mg C/m ²
DEPTH TEMP SALINITY SIGMA OXYGEN OXY SI03 PO4 NO3 NO2 CHL-A PHAEOL LIGHT UPTAKE (mg C/m³)								
m DEG C THETA ml/l PCT uM/l uM/l uM/l ug/l ug/l PCT 1 2 MEAN DARK								
2 18.71 33.534 23.975 5.90 110.5 1.5 0.23 0.0 0.00 0.53 0.14 79. A 17.4 17.2 17.3 0.29								
8 18.61 33.534 24.000 5.88 109.9 1.3 0.24 0.0 0.00 0.57 0.14 39. 23.9 23.2 23.5 0.39								
18 15.68 33.437 24.619 6.45 113.8 2.5 0.36 0.3 0.01 0.93 0.30 12. 21.6 23.3 22.4 0.23								
27 13.39 33.434 25.103 5.96 100.4 3.8 0.75 5.8 0.37 1.11 0.42 4.1 16.0 13.1 14.6 0.09								
34 13.02 33.423 25.169 5.58 93.3 5.2 0.91 8.3 0.59 0.51 0.26 1.8 6.2 6.5 6.4 0.08								
41 11.60 33.346 25.380 4.90 79.4 10.1 1.19 13.1 0.22 0.36 0.20 48 11.42 33.397 25.453 4.71 76.1 11.8 1.28 14.7 0.12 0.21 0.13 0.35 0.09 0.06 0.08 0.04								

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 45.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 55.4 N	118 56.0 W	07/08/10	1849 UTC	13 m	1204 - 1921 PST	1201 PST	1919 PST	785.4 mg C/m ²
DEPTH TEMP SALINITY SIGMA OXYGEN OXY SI03 PO4 NO3 NO2 CHL-A PHAEOL LIGHT UPTAKE (mg C/m³)								
m DEG C THETA ml/l PCT uM/l uM/l uM/l ug/l ug/l PCT 1 2 MEAN DARK								
2 16.67 33.472 24.420 5.97 107.5 1.5 0.33 0.0 0.01 0.55 0.08 79. A 44.2 41.5 42.8 0.70								
8 16.56 33.474 24.447 5.98 107.4 1.3 0.32 0.0 0.00 0.57 0.12 39. 32.7 34.2 33.4 0.68								
18 13.41 33.414 25.083 6.46 108.9 0.5 0.49 2.3 0.11 2.77 0.43 12. 22.5 21.6 22.0 0.74								
27 11.40 33.480 25.521 4.50 72.7 13.2 1.28 13.7 0.24 1.64 0.63 4.1 7.6 9.9 8.7 0.60								
34 11.08 33.496 25.591 4.17 66.9 15.1 1.42 15.9 0.29 1.01 0.56 1.8 1.9 2.9 2.4 0.33								
41 10.97 33.520 25.630 4.02 64.4 16.2 1.47 16.8 0.29 0.79 0.51 48 10.55 33.584 25.754 3.56 56.5 19.1 1.64 19.7 0.14 0.38 0.31 0.35 0.04 0.07 0.05 0.08								

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 5.2 N	120 38.4 W	04/08/10	1837 UTC	21 m	1212 - 1921 PST	1209 PST	1921 PST	278.7 mg C/m ²
DEPTH TEMP SALINITY SIGMA OXYGEN OXY SI03 PO4 NO3 NO2 CHL-A PHAEOL LIGHT UPTAKE (mg C/m³)								
m DEG C THETA ml/l PCT uM/l uM/l uM/l ug/l ug/l PCT 1 2 MEAN DARK								
3 16.70 33.075 24.108 5.73 103.0 2.8 0.34 0.0 0.00 0.19 0.05 80. A 4.2 4.0 4.1 0.07								
10 16.70 33.076 24.109 5.73 103.0 2.8 0.34 0.0 0.00 0.19 0.04 36. 4.6 4.5 4.5 0.08								
14 16.69 33.076 24.112 5.73 103.0 2.8 0.35 0.0 0.00 0.20 0.05 12. 5.7 5.9 5.8 0.09								
22 16.59 33.065 24.127 5.77 103.5 2.8 0.33 0.0 0.00 0.23 0.06 4.0 5.2 5.7 5.4 0.04								
29 15.39 32.977 24.329 6.03 105.5 3.1 0.35 0.0 0.00 0.39 0.11 1.8 1.7 1.8 1.7 0.03								
36 15.06 32.967 24.394 6.08 105.7 3.6 0.38 0.2 0.01 0.62 0.15 76 15.06 32.967 24.394 6.08 105.7 3.6 0.38 0.2 0.01 0.62 0.15 44 15.05 33.043 24.455 5.90 102.6 3.4 0.40 0.5 0.02 0.68 0.23 4.0 5.2 5.7 5.4 0.04								
55 14.49 33.059 24.587 5.84 100.4 2.8 0.39 0.2 0.08 0.38 0.25 1.8 1.7 1.8 1.7 0.03								
65 13.76 33.058 24.739 5.78 97.9 3.7 0.55 2.1 0.50 0.21 0.19 76 13.75 33.229 24.873 5.64 95.6 3.5 0.41 0.9 0.23 0.17 0.26 0.39 0.07 0.11 0.09 0.00								

A) INCUBATION LIGHT INTENSITIES WERE 89, 37, 12 4.3, 1.9, 0.35 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 90.0 100.0

LATITUDE 31 5.3 N	LONGITUDE 122 39.9 W	DAY/MO/YR 03/08/10	CAST TIME 2041 UTC	SECCHI 21 m	INCUBATION TIME 1345 - 1930 PST	LAN 1217 PST	CIVIL TWILIGHT 1928 PST	INTEGRATED VALUE 88.8 mg C/m ²
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DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³) 2 MEAN DARK			
2	17.72	33.247	23.999	5.55	101.8	2.8	0.33	0.0	0.00	0.14	0.02	86.	A	2.6	2.6	2.6	0.08
15	17.67	33.243	24.008	5.56	101.9	2.6	0.33	0.0	0.00	0.14	0.03	33.		2.3	2.2	2.2	0.08
29	16.73	33.161	24.168	5.81	104.5	2.8	0.32	0.0	0.00	0.19	0.04	12.		1.1	1.2	1.2	0.14
43	15.79	33.148	24.373	5.91	104.4	2.8	0.34	0.0	0.00	0.28	0.09	4.3		0.67	0.53	0.60	0.09
49	15.50	33.148	24.438	5.91	103.8	2.6	0.34	0.0	0.00	0.30	0.19						
56	15.09	33.145	24.525	5.89	102.5	2.7	0.37	0.0	0.00	0.40	0.37	1.7		0.65	0.73	0.69	0.08
67	14.71	33.133	24.598	5.82	100.5	2.9	0.42	0.2	0.11	0.50	0.45						
77	14.36	33.139	24.677	5.68	97.4	3.1	0.48	0.7	0.75	0.24	0.25	0.36		0.03	0.05	0.04	0.01

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 26.7

LATITUDE 32 57.1 N	LONGITUDE 117 18.9 W	DAY/MO/YR 30/07/10	CAST TIME 2121 UTC	SECCHI 5 m	INCUBATION TIME 1400 - 1917 PST	LAN 1156 PST	CIVIL TWILIGHT 1917 PST	INTEGRATED VALUE 286.3 mg C/m ²
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DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³) 2 MEAN DARK			
1	17.34	33.466	24.258	6.53	119.1	4.4	0.27	0.0	0.01	1.74	0.54	74.	A	44.2	41.5	42.8	0.70
3	17.35	33.467	24.256	6.53	119.1	4.4	0.29	0.0	0.01	1.78	0.57	40.		32.7	34.2	33.4	0.68
6	15.62	33.459	24.649	6.74	118.8	4.6	0.31	0.0	0.02	2.95	0.81	16.		22.5	21.6	22.0	0.74
10	13.70	33.382	25.000	6.78	114.9	4.3	0.42	0.0	0.02	4.03	0.69	4.6		7.6	9.9	8.7	0.60
13	13.06	33.467	25.194	6.09	101.9	6.4	0.61	3.1	0.16	3.46	0.64	1.8		1.9	2.9	2.4	0.33
18	11.74	33.400	25.396	5.05	82.2	9.2	1.10	12.0	0.57	1.04	0.38	0.40		0.04	0.07	0.05	0.08

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 40.0

LATITUDE 32 31.2 N	LONGITUDE 118 12.7 W	DAY/MO/YR 31/07/10	CAST TIME 1652 UTC	SECCHI 21 m	INCUBATION TIME 1158 - 1921 PST	LAN 1159 PST	CIVIL TWILIGHT 1920 PST	INTEGRATED VALUE 519.9 mg C/m ²
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DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³) 2 MEAN DARK			
2	17.37	33.308	24.130	5.71	104.1	1.1	0.32	0.0	0.00	0.23	0.03	86.	A	9.0	8.2	8.6	0.08
14	16.58	33.291	24.302	6.26	112.4	1.0	0.35	0.0	0.00	0.32	0.06	36.		10.6	9.6	10.1	0.09
22	14.52	33.297	24.764	6.72	115.8	0.8	0.39	0.2	0.03	0.80	0.15						
29	13.77	33.291	24.916	6.10	103.5	2.7	0.64	3.6	0.25	0.94	0.20	12.		15.4	15.7	15.6	0.11
36	13.08	33.275	25.042	5.69	95.1	4.6	0.77	5.9	0.35	0.79	0.18						
43	12.57	33.275	25.143	5.46	90.3	6.2	0.88	7.7	0.35	0.66 B	0.18 B	4.3		4.7	4.2	4.5	0.03
55	12.14	33.337	25.273	5.24	85.9	7.6	1.03	10.1	0.49	0.49	0.16	1.8		1.5	1.9	1.7	0.05
66	11.45	33.346	25.409	4.98	80.5	9.6	1.12	12.0	0.18	0.24	0.11						
77	10.73	33.317	25.515	4.67	74.3	12.4	1.23	13.8	0.08	0.16	0.10	0.36		0.12	0.07	0.10	0.01

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

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 70.0

LATITUDE 31 31.1 N	LONGITUDE 120 14.4 W	DAY/MO/YR 01/08/10	CAST TIME 1702 UTC	SECCHI 23 m	INCUBATION TIME 1207 - 1925 PST	LAN 1207 PST	CIVIL TWILIGHT 1925 PST	INTEGRATED VALUE 230.3 mg C/m ²
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DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³) 2 MEAN DARK			
2	17.00	33.141	24.089	5.65	102.2	2.4	0.35	0.0	0.00	0.15	0.03	88.	A	3.8	3.9	3.9	0.06
15	16.99	33.139	24.090	5.65	102.2	2.4	0.35	0.0	0.00	0.16	0.02	37.		4.6	4.3	4.4	0.05
31	15.30	33.051	24.406	5.99	104.7	2.4	0.37	0.0	0.00	0.28	0.09	13.		4.1	4.2	4.2	0.07
39	14.79	33.054	24.519	6.01	104.0	2.5	0.36	0.0	0.00	0.36	0.18						
47	14.80	33.175	24.611	5.94	102.8	2.3	0.30	0.0	0.00	0.33	0.22	4.3		2.3	2.6	2.5	0.02
54	14.87	33.237D	24.644	5.94	103.0	2.4	0.30	0.0	0.00	0.31	0.21						
59	14.54	33.182	24.672	5.85	100.7	2.4	0.31	0.0	0.00	0.30	0.39	1.9		1.5	1.7	1.6	0.01
68	13.85	33.086	24.742	5.84	99.1	2.3	0.36	0.1	0.11	0.30	0.36						
75	13.62	33.058	24.767	5.80	97.9	2.6	0.39	0.3	0.14	0.24	0.34						
85	13.00	33.154	24.966	5.57	92.9	3.9	0.53	2.5	0.05	0.13	0.19	0.34		0.08	0.04	0.06	0.00

RV NEW HORIZON

CALCOFI CRUISE 1008

STATION 93.3 110.0

LATITUDE 30 11.0 N	LONGITUDE 122 55.3 W	DAY/MO/YR 02/08/10	CAST TIME 1810 UTC	SECCHI 23 m	INCUBATION TIME 1217 - 1938 PST	LAN 1218 PST	CIVIL TWILIGHT 1932 PST	INTEGRATED VALUE 174.1 mg C/m ²
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DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/l	PHAE0 ug/l	LIGHT PCT	1	UPTAKE (mg C/m ³) 2 MEAN DARK			
2	18.56	33.291	23.827	5.48	102.2	2.2	0.32	0.0	0.00	0.12	0.02	88.	A	3.3	3.1	3.2	0.08
15	18.50	33.288	23.840	5.52	102.8	2.1	0.32	0.0	0.00	0.13	0.02	37.		3.5	3.5	3.5	0.08
31	16.84	33.198	24.171	5.87	105.9	2.1	0.32	0.0	0.00	0.18	0.05	13.		2.7	2.9	2.8	0.08
39	15.92	33.151	24.346	5.97	105.7	2.2	0.33	0.0	0.00	0.23	0.07						
47	15.58	33.168	24.435	6.00	105.5	2.1	0.34	0.0	0.00	0.26	0.11	4.3		2.0	1.8	1.9	0.03
54	15.36	33.153	24.472	5.99	104.9	2.3	0.35	0.0	0.00	0.32	0.13						
60	15.09	33.172	24.546	5.97	104.0	2.2	0.35	0.0	0.00	0.28	0.20	1.8		1.1	1.2	1.2	0.02
68	14.52	33.155	24.656	5.84	100.5	2.5	0.41	0.2	0.09	0.28	0.23						
77	14.10	33.184	24.766	5.74	98.0	2.9	0.41	0.3	0.07	0.25	0.28						
85	13.42	33.206	24.922	5.56	93.6	3.9	0.55	1.8	0.14	0.21	0.28	0.34		0.09	0.07	0.08	0.00

A) INCUBATION LIGHT INTENSITIES WERE 89, 37, 12 4.3, 1.9, 0.35 PERCENT RESPECTIVELY.

CalCOFI Cruise 1008

MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505mm

Line	Sta.	Latitude N	Longitude W	Date Mo/Day	Time (PST) Start	Water Volume Strained (m ³)	Max. Tow Depth (m)	Volume per 1000 m ³ Strained		
								Total (cm ³)	Small (cm ³)	
76.7	49.0	35 05.2	120 46.6	08/15	2232	2238	124	53	282	129
76.7	51.0	35 01.2	120 55.0	08/15	2007	2028	407	209	101	101
76.7	55.0	34 53.4	121 12.0	08/15	1633	1655	432	212	39	39
76.7	60.0	34 43.3	121 33.0	08/15	1212	1234	440	211	397	354
76.7	70.0	34 23.3	122 14.8	08/15	0548	0609	420	214	90	90
76.7	80.0	34 03.2	122 56.4	08/14	2355	0018	431	210	209	209
76.7	90.0	33 43.3	123 38.0	08/14	1644	1706	421	213	38	38
76.7	100.0	33 23.4	124 19.4	08/14	1046	1108	442	172	32	32
80.0	50.5	34 27.7	120 29.2	08/12	1304	1306	44	15	45	45
80.0	51.0	34 26.9	120 31.2	08/12	1204	1211	160	71	62	62
80.0	55.0	34 18.9	120 48.1	08/12	1701	1722	422	214	74	74
80.0	60.0	34 09.0	121 08.9	08/12	2254	2315	422	210	78	78
80.0	70.0	33 48.9	121 50.6	08/13	0550	0612	429	222	75	75
80.0	80.0	33 28.9	122 31.9	08/13	1226	1248	440	212	73	73
80.0	90.0	33 09.0	123 13.2	08/13	2043	2104	417	211	53	53
80.0	100.0	32 48.9	123 54.3	08/14	0328	0351	434	212	18	18
81.7	43.5	34 24.3	119 48.0	08/12	0340	0342	45	13	66	66
81.8	46.9	34 16.6	120 01.6	08/12	0653	0714	415	208	60	60
83.3	39.4	34 15.5	119 19.4	08/12	0041	0043	52	12	19	19
83.3	40.6	34 13.5	119 24.7	08/11	2335	2338	73	28	137	137
83.3	42.0	34 10.7	119 30.4	08/11	2137	2150	247	126	150	150
83.3	51.0	33 52.7	120 08.1	08/11	1540	1552	238	106	38	38
83.3	55.0	33 44.7	120 24.6	08/11	1206	1227	416	211	55	55
83.3	60.0	33 34.9	120 45.2	08/11	0721	0743	433	215	97	97
83.3	70.0	33 14.8	121 26.8	08/11	0100	0122	425	212	122	122
83.3	80.0	32 54.7	122 07.8	08/10	1719	1741	426	220	155	155
83.3	90.0	32 34.7	122 48.7	08/10	1054	1115	443	207	34	34
83.3	100.0	32 14.7	123 29.5	08/10	0425	0447	447	216	40	40
83.3	110.0	31 54.6	124 10.1	08/09	2144	2205	430	213	28	28
85.4	35.8	34 00.5	118 49.6	08/06	0731	0733	45	14	22	22
86.7	33.0	33 53.6	118 29.3	08/06	0512	0517	97	43	103	103
86.7	35.0	33 49.5	118 37.7	08/06	1108	1129	439	202	41	41
86.7	40.0	33 39.4	118 58.5	08/07	0347	0409	413	210	109	109
86.7	45.0	33 29.4	119 19.1	08/07	1653	1714	422	214	38	38
86.7	50.0	33 19.4	119 39.5	08/07	2028	2035	151	66	246	246
86.7	55.0	33 09.3	120 00.5	08/08	0024	0046	435	207	94	94
86.7	60.0	32 59.3	120 20.9	08/08	0518	0540	354	221	130	130
86.7	70.0	32 39.5	121 01.9	08/08	1206	1229	463	213	76	76
86.7	80.0	32 19.5	121 43.0	08/08	2039	2100	444	208	142	142
86.7	90.0	31 59.4	122 23.5	08/09	0239	0300	415	210	55	55
86.7	100.0	31 39.4	123 04.6	08/09	0819	0840	450	213	22	22
86.7	110.0	31 19.4	123 44.6	08/09	1536	1557	443	214	38	38
86.8	32.5	33 53.4	118 26.7	08/06	0345	0347	57	11	142	142
88.5	30.1	33 40.5	118 05.0	08/06	0006	0008	57	8	105	105
90.0	27.7	33 29.7	117 44.9	08/05	1949	1951	40	14	323	323
90.0	28.0	33 29.1	117 46.1	08/05	2119	2126	132	61	395	395
90.0	30.0	33 24.9	117 54.4	08/05	1800	1821	461	201	121	93
90.0	35.0	33 15.1	118 15.0	08/06	1926	1947	414	214	82	82
90.0	37.0	33 11.2	118 23.2	08/05	1145	1206	418	209	33	33
90.0	45.0	32 55.2	118 56.2	08/05	0548	0609	429	207	47	47
90.0	53.0	32 39.1	119 28.9	08/05	0006	0028	428	211	164	164
90.0	60.0	32 24.9	119 57.4	08/04	1848	1910	432	214	86	86
90.0	70.0	32 05.1	120 38.4	08/04	1214	1236	461	213	41	41
90.0	80.0	31 44.9	121 18.9	08/04	0530	0552	420	218	36	36
90.0	90.0	31 25.1	121 59.3	08/03	2230	2251	433	214	67	67
90.0	100.0	31 05.3	122 39.8	08/03	1404	1426	456	210	70	70
90.0	110.0	30 45.3	123 20.4	08/03	0622	0644	432	216	35	35
90.0	120.0	30 25.1	123 59.8	08/03	0035	0057	439	210	41	41
91.7	26.4	33 14.4	117 27.5	07/30	1743	1745	49	13	20	20
93.3	26.7	32 57.3	117 18.3	07/30	1235	1242	153	63	52	52
93.3	28.0	32 54.7	117 23.8	07/30	2155	2217	440	206	89	89
93.3	30.0	32 50.9	117 31.8	07/31	0051	0113	423	210	113	113
93.3	35.0	32 40.9	117 52.4	07/31	0452	0514	440	207	134	86
93.3	40.0	32 31.2	118 12.8	07/31	0744	0807	434	215	41	41
93.3	45.0	32 20.8	118 33.3	07/31	1343	1405	437	218	89	89
93.3	50.0	32 10.8	118 53.4	07/31	1757	1819	440	215	157	157
93.3	55.0	32 00.8	119 13.9	07/31	2209	2231	425	214	165	165
93.3	60.0	31 50.8	119 34.3	08/01	0313	0335	434	212	97	97
93.3	70.0	31 31.1	120 14.5	08/01	0759	0823	489	207	43	43
93.3	80.0	31 11.3	120 56.0	08/01	1721	1743	415	219	89	89
93.3	90.0	30 50.8	121 35.3	08/01	2312	2333	457	206	44	44
93.3	100.0	30 30.9	122 15.2	08/02	0512	0534	445	214	49	49
93.3	110.0	30 10.7	122 53.9	08/02	1125	1146	437	209	46	46
93.3	120.0	29 50.9	123 35.1	08/02	1726	1748	435	214	90	90
93.4	26.4	32 57.2	117 16.8	07/30	1446	1448	52	13	58	58