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Biological, chemical and physical oceanographic conditions in the Southern Gulf of Saint Lawrence, 1995

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ABSTRACT

L.E. Waite, J.C. Smith, P. Cormier and K. Pauley. 1997. Biological, chemical and physical oceanographic conditions in the Southern Gulf of Saint Lawrence, 1995. Can. Data Rep. Fish. Aquat. Sci. 1028: vi + 417p.

An oceanographic program was developed for the Southern Gulf of Saint Lawrence to help address DFO issues relating to the decline in Gulf groundfish stocks and the role of environmental factors in recruitment failure. The program started in 1993 and continued through 1996 and was designed to develop a comprehensive database on biological, chemical and physical properties in the Southern Gulf in order to (1) characterize regional and temporal variability in oceanographic conditions, (2) quantify the effects of physical and chemical environmental changes on plankton productivity, (3) determine if a relationship exists between variations in productivity and recruitment variability in important commercial fisheries stocks and (4) determine the effects of the environment on the carrying capacity of molluscan aquaculture. This reports summarizes the oceanographic survey data for 1995.

RÉSUMÉ

L.E. Waite, J.C. Smith, P. Cormier and K. Pauley. 1997. Biological, chemical and physical oceanographic conditions in the Southern Gulf of Saint Lawrence, 1995. Can. Data Rep. Fish. Aquat. Sci. 1028: vi + 417p.

En 1993, un programme de suivi des paramètres océanographiques a été établi dans le sud du Golfe du St.-Laurent pour aider le MPO à comprendre la baisse des stocks de poissons de fond et le rôle des facteurs environnementaux sur la diminution du recrutement. Ce programme qui s'est terminé en 1996, avait été créé pour développer une base de données compréhensive sur les aspects de l'océanographie biologique, chimique et physique dans le sud du Golfe pour (1) caractériser la variabilité régionale et temporelle des conditions océanographiques, (2) quantifier les changements environnementaux physiques et chimiques sur la productivité planctonique, (3) déterminer s'il y a une relation entre les variations de productivité et la variabilité du recrutement dans les pêcheries commerciales et (4) déterminer les effets environnementaux sur la capacité de charge de l'aquiculture des mollusques. Ce rapport est un sommaire des données océanographiques pour 1995.

1.0 INTRODUCTION

The data summarized in this report are the outcome of a research program developed for the Southern Gulf of Saint Lawrence to respond to environmental issues related to the recent dramatic decline in commercial fish stocks and the question of a possible environmental link to these declines. This report presents the results of surveys in 1995 which measured biological, chemical and physical oceanographic variables in the southern Gulf of Saint Lawrence.

1.1 Background

The recent catastrophic declines in Gulf and Atlantic Zone groundfish stocks prompted scientists to inquire into the reasons for the failure of recruitment to these populations. Recruitment can fail at any life history stage, but larvae would seem particularly vulnerable. The factors governing larval fish production and recruitment need to be understood. Also, in support of other fisheries such as molluscan aquaculture, the knowledge of the effects of the environment on aquaculture carrying capacity is required. The objective of this environmental program was to develop a more comprehensive database of physical, chemical and biological properties. This database would then be used to 1) characterize regional and temporal variability in oceanographic conditions within the southern Gulf of Saint Lawrence; 2) quantify the effects of changes in the physical and chemical environment on primary production and 3) determine whether any relationship exists between environmentally induced variation in primary production and the variance in recruitment to important commercial species.

2.0 MATERIAL AND METHODS

2.1 Sampling Sites

The inshore sampling sites in 1995 included 5 fixed stations at Cardigan, PEI. There were 6 research surveys conducted during 1995: (1) Survey 95-01 with 28 stations from 05-Jun-95 to 12-Jun-95 aboard the C.C.G.C. Opilio from Caraquet, NB into the Miramichi Bay, NB down through the Northumberland Strait into Cardigan Bay, PEI ; (2) Survey 95-02 with 26 stations from 28-Jun-95 to 06-Jul-95 aboard the C.C.G.C. Calanus (these are selected stations taken during the juvenile cod survey - J095); (3) Survey 95-03 with 38 stations from 29-Jun-95 to 08-Jul-95 aboard the C.C.G.C. Navicula from Miramichi, NB down through the Northumberland Strait into Cardigan Bay, PEI and across to St. Georges Bay, NS; (4) Survey 95-04 with 44 stations from 08-Aug-95 to 15-Aug-95 aboard the C.C.G.C. Navicula from St. Georges Bay, NS across to Cardigan Bay, PEI through the Northumberland Strait into the Miramichi Bay, NB; (5) Survey 95-05 with 34 stations from 07-Sep-95 to 14-Sep-95 aboard the C.C.G.C. Navicula following the

same cruise track as Survey 95-03 and (6) Survey 95-05 with 35 stations from 11-Oct-95 to 19-Oct-95 aboard the C.C.G.C. Navicula following the same cruise track as Survey 95-03. Water samples were collected when weather permitted while at anchor. Temperature moorings were put in Cardigan, PEI, at site 3 from 05-May-95 to 06-Nov-95.

2.2 Data and Sample Collection

Two types of stations were established and termed "water" or "CTD" stations. Data and samples collected at "CTD" stations included depth profiles of salinity, temperature, density and fluorescence, date, time, weather and latitude and longitude.

Data and samples collected at most "water" stations included location, date, local time, total depth, SECCHI depth, air temperature, surface water temperature, irradiance profile, latitude and longitude, *in situ* fluorescence, fluorescence response index (*FRI*); depth profiles of salinity, temperature, density and fluorescence; particulate organic matter (*POM*); particulate inorganic matter (*PIM*); chlorophyll *a* (*C_a*); phaeophytin *a* (*P_a*); ammonia (*NH₃*); nitrates (*NO₂* and *NO₃*); phosphate (*PO₄*) and silicate (*SiO₄*). Primary productivity (*P^B*) was measured at selected sites. Initial water sample depth was 1m with additional sample depths added depending on the total depth of the water column and the relative fluorescence of the CTD profiler. There was only 1 sampling depth during Survey 95-02 at 4m.

The date, local time, total depth and latitude and longitude were taken from ship board instruments when possible. The total depth for small boat stations was taken by lowering a weighted, measured rope. The latitude and longitude for small boat stations were taken from SPANS Geographic Information System. A 1:50,000 scale base map was used for New Brunswick based sites and a 1:250,000 scale base map was used for Prince Edward Island based sites.

Surveys using larger boats are identified with the last 2 digits of the year followed by a consecutive number for that year starting at 1. For example the first cruise in 1995 was labelled "Survey 95-01".

Water samples were collected using a Tygon tube sampler for integrated water column measurements and a polyethylene hand pump or a 12V Rule submersible bilge pump attached to a vinyl garden hose for discrete sample depths. All water samples were stored in clean polyethylene containers in the dark until samples were processed.

2.3 SECCHI Depth

Light attenuation was measured with a SECCHI disk. The extinction coefficient ($-k_1$) was calculated as described by Vollenweider (1969):

$$-k_1 = \frac{\ln(0.01)}{3 \cdot SECCHI} \quad (1)$$

where:

$$SECCHI \text{ (m)} = \text{SECCHI depth}$$

2.4 Irradiance

The irradiance was measured at the water surface (I_o , < 0.5m) and every 1m down the water column with a LI-COR underwater LI-193SA Spherical Quantum Sensor attached to a 2009S lowering frame and LI-1000 DataLogger. At the same time, the irradiance in the sky was obtained with a LI-COR LI-192SA Quantum sensor attached to the same DataLogger as the underwater sensor. The mean irradiance for the euphotic zone $\langle I_z \rangle$ was calculated as described by Platt *et. al.* 1988:

$$\langle I_z \rangle = 0.22I_o \quad (2)$$

In addition, the extinction coefficient ($-k_2$) was calculated as the slope of the regression of $\ln(\text{WaterIrradiance} / \text{SkyIrradiance})$ against depth.

2.5 Manual Salinity and Temperature

Manual salinity was measured using a hand held salinity refractometer (Atago Co.) with a precision of ± 0.2 ‰. The air and water surface temperature was measured using a hand held Barnant 115 thermocouple with an accuracy of ± 0.1 °C.

2.6 SEACAT SBE-19 CTD Data

Temperature, salinity, density and fluorescence profiles were obtained using a SEABIRD electronics SEACAT SBE-19 pumped conductivity, temperature and pressure profiler (CTD) equipped with a Chelsea Instruments Mk III Aquatracka fluorometer configured and calibrated for chlorophyll *a* measurements. In order to maintain data accuracy the conductivity, temperature and pressure sensors were factory calibrated every 2 years. The accuracy of the SBE-19 CTD conductivity, temperature and pressure sensors is better than 0.001 S/m/month, 0.01 °C/6 months and 0.25% of full scale range respectively and the resolution is better than 0.0001 S/m, 0.001 °C and 0.015% of full scale range respectively. The Chelsea

fluorometer measures chlorophyll a concentrations in the approximate range of 0.01 to 100 $\mu\text{g L}^{-1}$ with an accuracy of $\pm 0.01 \mu\text{g L}^{-1}$. SEASOFT (SEABIRD software) interprets the fluorometer output voltage as:

$$C_{a1} = \text{slope} \cdot \left(\frac{10^{V/sf} - 10^{VB}}{10^{V1} - 10^{V_{acetone}}} \right) + \text{offset} \quad (3)$$

where:

C_{a1} ($\mu\text{g L}^{-1}$)	= chlorophyll a derived from the CTD
slope	= nominally 1.0
V	= fluorometer output voltage <i>in-situ</i>
sf	= scale factor (1.0 for the SBE-19)
VB	= electrical zero (from Chelsea factory calibration sheet)
$V1$	= fluorometer output voltage at 1 $\mu\text{g L}^{-1}$ (from Chelsea factory calibration sheet)
$V_{acetone}$	= fluorometer output voltage at zero chlorophyll (from Chelsea factory calibration sheet)
offset	= nominally 0.0

2.7 Temperature Moorings

In addition to regular sampling stations, temperature moorings were placed at selected stations in Cardigan, PEI, Aldouane Bay, Bouctouche Bay, Caraquet Bay and Miramichi Bay (Baie du Vin), NB using a series of SEALOG-T temperature probes (VEMCO LTD.). These probes were factory preset to measure between -5°C to 20°C with a resolution of 0.1°C and an accuracy of $\pm 0.3^{\circ}\text{C}$.

2.8 Nutrients

2.8.1 Ammonia

Samples for the manual determination of ammonium were analysed according to Solórzano (1969). The following modifications were made in order to reduce sample volume and contamination. The 25 x 150 mm screw capped culture tubes used for sample storage were cleaned prior to use by running the complete ammonia determination with deionized water. Samples were filtered through clean 47mm Whatman GF/F filters (precombusted at 450°C for 4 hours) in order to remove plant material and detritus. The tubes and caps were rinsed twice with sample water, 20 mL of sample introduced and then the tube sealed with parafilm, capped and frozen at -20°C for subsequent analysis. Sample analysis was performed in the same tubes in order to avoid sample transfer contamination (Glibert and McCarthy, 1984). With this method we had a detection limit of $0.25 \mu\text{M}$, which was double the blank, and a precision of

$\pm 0.01 \mu\text{M}$ based on a 4 point analysis over the concentration range 0.5 to 4.0 μM .

Standards and calibration curves were prepared in the following manner. A primary stock solution of 50 mM (3.3035 g of ammonium sulphate in 1 L of deionized water) was prepared and stored in a dark bottle with 1 mL of chloroform at 4 °C. A working stock of 50 μM was then prepared from the primary stock by a 1/1000 dilution. From the working stock a dilution series in the appropriate range was prepared. A fresh working stock and working standards were prepared daily during sample analysis. A linear calibration was obtained by regressing the absorbance readings from a Beckman DU-64 spectrophotometer at 640 nm against known concentrations of the working stock.

The method was scaled down for a 20 mL sample using 0.8 mL of phenol solution, 0.8 mL of nitroprusside solution and 2 mL of oxidising solution. Deionized water was used in order to generate a reagent blank. The reaction was carried out in the screw-capped test tubes and incubated in the dark in a 50 ± 2 °C water bath for 20 minutes in order to ensure reaction completion. Samples were then cooled and ammonia concentrations read at 640 nm in a spectrophotometer equipped with a flow through 5 cm path length cell. The cell was zeroed with deionized water. All absorbance readings were blank corrected before calculating corresponding concentrations. Ammonia concentration of the sample is derived by solving for x (where $x = [\text{NH}_3]$) in the straight line equation:

$$\text{NH}_3 = \frac{(R_{640} - b_{640})}{a_{640}} \quad (4)$$

where:

- NH_3 (μM) = ammonia concentration of the sample
- R_{640} = the absorbance reading at 640 nm
- a_{640} = slope of calibration regression
- b_{640} = intercept of calibration regression

2.8.2 Nitrates, Phosphate and Silicate

Unfiltered samples for nitrates ($\text{NO}_2 + \text{NO}_3$), phosphate (PO_4) and silicate (SiO_4) determinations were stored in 30 mL high-density polyethylene bottles that were previously cleaned. They were kept at -20 °C (2 - 6 months) until analysed using colorimetric techniques on a Technicon AutoAnalyzer II (Strain and Clement, 1996).

2.9 SESTON

For SESTON or particulate organic material (*POM*) and particulate inorganic material (*PIM*), samples were filtered onto washed, pre-combusted (at 450 °C for 24 hours) and pre-weighed 47 mm GF/F filters. The sample was then washed rapidly with 2 x 5 mL washes in order to remove salts as described by Strickland and Parsons 1968. The filters were stored frozen at -20 °C in petri plates until analysis. Samples were dried over night at 70 °C and weighed in order to obtain the dry filter weight (W_d) of the particulate organic material. The filter was then placed in an aluminum dish and ashed in a muffle furnace at 450 °C for 12 hours. Maximum temperature was attained using incremental temperature increases. The filter was then weighed again in order to obtain the combusted filter weight (W_c). *POM* and *PIM* were calculated as follows:

$$PM = W_d - W_f \quad (5)$$

$$POM = W_d - W_c \quad (6)$$

$$PIM = PM - POM \quad (7)$$

where:

PM (μm) = total particulate matter

POM (μm) = total particulate organic matter

PIM (μm) = total particulate inorganic matter

W_d (g) = weight of SESTON filter dried at 70 °C

W_f (g) = weight of SESTON filter cleaned and dried

W_c (g) = weight of SESTON filter ashed

2.10 Chlorophyll *a* and Phaeophytin *a* Analysis

For chlorophyll *a* and phaeophytin *a* analysis, triplicate samples were gently filtered onto 25 mm GFC filters prewashed with 5 mL of 5% Na_2HPO_4 (in order to buffer the filter) then frozen in scintillation vials at -20 °C for subsequent analysis. Filters were then extracted with 10 mL of 90% acetone overnight at -20 °C (Parsons *et. al.* 1984 and Yentsch and Menzel, 1963). Pigment analysis was performed using a Perkin Elmer LS3 spectrofluorometer. Readings were taken at excitation wavelength of 408 nm for phaeophytin *a* and 430 nm for chlorophyll *a*. The samples were then acidified with 2 drops of 5% HCl, mixed and the readings repeated. The emission wavelength was 670 nm for all readings. Slit widths for the instrument were set at 10 nm for excitation and 10 nm for emission. The 1 cm sample cell was zeroed with 90% acetone.

Standards were prepared from pure spinach chlorophyll *a* (1 mg Sigma) which was dissolved in 250 mL of 90% acetone. The chlorophyll *a* concentration of the primary

standard was determined spectrophotometrically at 663.5 nm using the extinction coefficient $E^M(1) 8.36 \cdot 10^4$ at 659 nm in ether supplied by Sigma. It was assumed that the supplied chlorophyll *a* was 100% pure, i.e., that it contained no chlorophyll *a* degradation products such as phaeophytin *a*. For fluorometric calibration, a dilution series of the primary standard was prepared in 90% acetone. Based on the instruments monochromator calibration a pure chlorophyll *a* standard exhibited an emission peak at 670 nm and excitation peaks at 408 nm and 430 nm. Following acidification of the standard with 2 drops 5% HCl, the excitation peak at 430 nm nearly disappeared (relative to the acetone blank) while the 408 nm peak was largely unaffected. The acidification completely converted the chlorophyll *a* to phaeophytin *a*. Since both chlorophyll *a* and phaeophytin *a* give equivalent fluorescence for 408 nm excitation, this gives a good estimate of the total concentration of *a* pigments (chlorophyll *a* + phaeophytin *a*) in a sample solution. In practice, we use an acidified sample for this purpose and calibrations are also based on acidified standards. The relation between 408 nm excited fluorescence and total *a* pigment levels is highly linear, with quenching occurring only at concentrations greater than $400 \mu\text{g L}^{-1}$. To determine the proportions of chlorophyll *a* and phaeophytin *a* in a sample, we assume that for a pure chlorophyll *a* standard the ratio between the 430 nm excited fluorescence before and after acidification (R_{430} / R_{430a}) is characteristic of a solution of 100% pure chlorophyll *a*. A value of unity for this ratio is characteristic of a 100% pure phaeophytin *a* or 0% chlorophyll *a* solution. The slope of the line

between these 2 sets of points $\left[(0,1), \left(\frac{\sum_{i=1}^n \frac{R_{430_i}}{R_{430a_i}}}{n}, 100 \right) \right]$ can be used to calculate the

percentage of chlorophyll *a* present in a sample by:

$$\%C_a = a_{430/430a} \cdot \left(\frac{R_{430}}{R_{430a}} \right) + b_{430/430a} \quad (8)$$

where:

$\%C_a$	= percentage of chlorophyll <i>a</i> in the sample
$a_{430/430a}$	= slope of (R_{430} / R_{430a}) regression
$b_{430/430a}$	= intercept of (R_{430} / R_{430a}) regression
R_{430}	= absorbance reading at 430 nm
R_{430a}	= absorbance reading at 430 nm with sample acidified

Then, using the coefficients from the regression of the acidified standard concentrations against the fluorescence at 408 nm, calculate the total amount of *a* pigment in the sample by:

$$T_a = (a_{408a} \cdot R_{408a}) + b_{408a} \quad (9)$$

where:

$$\begin{aligned} T_a \text{ (}\mu\text{g L}^{-1}\text{)} &= \text{total } a \text{ pigment in the sample} \\ a_{408a} &= \text{slope of ([standards] / } R_{408a} \text{) regression} \\ b_{408a} &= \text{intercept of ([standards] / } R_{408a} \text{) regression} \\ R_{408a} &= \text{absorbance reading at 408 nm with sample acidified} \end{aligned}$$

From these 2 equations (8, 9) the amount of chlorophyll *a* and phaeophytin *a* in the sample can be calculated by:

$$C_a = T_a \cdot \left(\frac{\%C_a}{100} \right) \quad (10)$$

and

$$P_a = T_a - C_a \quad (11)$$

where:

$$\begin{aligned} C_a \text{ (}\mu\text{g L}^{-1}\text{)} &= \text{the amount of chlorophyll } a \text{ in the sample} \\ P_a \text{ (}\mu\text{g L}^{-1}\text{)} &= \text{the amount of phaeophytin } a \text{ in the sample} \end{aligned}$$

2.11 Fluorescence Response Index (*FRI*)

In situ fluorescence (F_o) and 3-(3,4-dichlorophenyl)-1,1-dimethyl urea (DCMU) enhanced *in situ* fluorescence (F_{dcmu}) was measured by introducing 5 mL of the seawater sample into a fluorometer cuvette. An initial fluorometer reading (F_o) was taken. The cuvette was then removed and DCMU added to a final concentration of 5 $\mu\text{mol L}^{-1}$. The sample was then mixed by inversion and the fluorometer reading taken again (F_{dcmu}). A Turner Designs fluorometer equipped with a chlorophyll accessory kit was used for these readings. The fluorescence response index (*FRI*) (Roy and Legendre, 1979) is defined by the following equation:

$$FRI = \frac{(F_{dcmu} - F_o)}{F_o} \quad (12)$$

where:

$$\begin{aligned} F_{dcmu} &= \text{DCMU enhanced } in \text{ situ fluorescence} \\ F_o &= in \text{ situ fluorescence} \end{aligned}$$

2.12 Productivity P-I Measurements

Phytoplankton productivity was determined using the ^{14}C method as described in Strickland and Parsons (1968) with the following modifications. All water samples for productivity measurements were taken from the 4m depth unless otherwise stated. A deck incubator containing 3 separate linear incubation boxes was constructed out of plywood. Each box was lit with a 300 Watt ELH projector bulb. Light was attenuated using sheets of perforated nickel screening. Each box held 12 50 mL Costar polycarbonate tissue culture flasks in a linear fashion. All sides of the box, the lid and the hose inlet and outlet were painted black. Maximum light at position 1 (closest to the light source) was approximately $1337 \mu\text{E s}^{-1} \text{m}^{-2}$ or 320.88 W m^{-2} as measured with a LI-COR LI-189 radiation sensor equipped with a 2 pi LI-190SA Quantum Sensor. Minimum light readings at position 12 were approximately $40 \mu\text{E s}^{-1} \text{m}^{-2}$ or 9.6 W m^{-2} . Temperature control was attained by pumping sea water from 4m through the incubators. Water samples were dispensed into the polycarbonate bottles by a Brinkman Dispenser (2 x 25 mL) equipped with a dark storage bottle. Filled polycarbonate incubation bottles were stored in a dark cooler until all the bottles were filled. The bottles were then inoculated with 0.1 mL of ^{14}C with an activity of 100 μCi per mL (nominal preparation). ^{14}C was prepared by diluting 5 mCi of $\text{NaH}^{14}\text{CO}_3$ (58 mCi / mmol, ICN Biomedicals Inc.) into 200 mL of Tris 0.2 M pH 9.0, filtered (0.2 μm polycarbonate filter, Nuclepore), and stored frozen in 30 mL Nalgene polypropylene bottles until required. Incubation times were kept short i.e. 1-2 hours and samples were immediately filtered onto 2.5 cm diameter Whatman GFF filters using a Millipore 12 position manifold. Filters were rinsed clean of ^{14}C with fresh GFF filtered seawater and stored frozen at -20°C in individual scintillation vials until analysis. A dark bottle was incubated alongside the row of light bottles. A sample for standard activity was prepared by adding 10 μCi to 50 mL then removing a 1 mL aliquot which was added to 0.2 mL of Carbosorb (Canberra Packard). Samples were prepared for counting by adding 1 mL of HCl 6N to vials 1-12 in the dark in order to remove any ^{14}C from the filter. Vials were placed in a Bransonic sonicating water bath and sonicated gently for 15 minutes in order to aid in releasing $^{14}\text{CO}_2$ into the atmosphere. Incorporated particulate ^{14}C was assessed by adding 15 mL of Beckman Ready-Safe scintillation fluor and counted on a Wallac 1410 liquid scintillation counter. Programming included correction for chemiluminescence and a count time of 300 seconds. Counting efficiency was $>90\%$.

^{14}C uptake was computed using the following calculations and values (Richardson K, 1987):

$$IC = \frac{((IRL - IRD) \cdot IDF) \cdot AC}{AR} \quad (13)$$

Where:

IC (mg)	= incorporated carbon
IRL (DPM)	= incorporated radioactivity in the light
IRD (DPM)	= incorporated radioactivity in the dark
IDF	= isotope discrimination factor = 1.05
AC (mg L ⁻¹)	= available carbon
AR (DPM)	= added radioactivity
DPM	= disintegration's per minute

Carbon fixation rates were normalised to chlorophyll *a* biomass (denoted by superscript *B*) and plotted as a function of light intensity to construct the P-I curves. The data was fitted with the hyperbolic tangent equation (Jassby and Platt, 1976):

$$P^B = P_m^B \cdot \tan h \cdot \left(\frac{\alpha I}{P_m^B} \right) - R^B \quad (14)$$

where:

P^B	(mg C • mg Chl _a ⁻¹ • h ⁻¹)	= carbon fixation rates normalised to chlorophyll <i>a</i> biomass
P_m^B	(mg C • mg Chl _a ⁻¹ • h ⁻¹)	= maximum specific production rate at light saturation i.e. the plateau of the P-I curve
$\tan h$		= hyperbolic tangent of the P-I curve
α	(mg C • mg Chl _a ⁻¹ • h ⁻¹ • (Wm ⁻²) ⁻¹)	= initial slope of the P-I curve
I	(Wm ⁻² , PAR)	= light intensity
R^B	(mg C • mg Chl _a ⁻¹ • h ⁻¹)	= ordinal intercept of the P-I curve

Parameter confidence regions are estimated to have a precision of $\pm 5\%$ for P_m^B and $\pm 10\%$ for α (Gallegos and Platt, 1981).

3.0 ACKNOWLEDGMENTS

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APPENDIX 1.0 List of Symbols and Abbreviations

α	(mg C • mgChla ⁻¹ • h ⁻¹ • (Wm ⁻²) ⁻¹)	initial slope of the P-I curve
a_{408a}		slope of ([standards] / R_{408a}) regression to determine T_a
$a_{430/430a}$		slope of (R_{430} / R_{430a}) regression to determine % C_a
a_{640}		slope of calibration regression to determine NH_3
AC	(mg L ⁻¹)	available carbon
AR	(DPM)	added radioactivity
b_{408a}		intercept of ([standards] / R_{408a}) regression to determine T_a
$b_{430/430a}$		intercept of (R_{430} / R_{430a}) regression to determine % C_a
b_{640}		intercept of calibration regression to determine NH_3
% C_a		percentage of chlorophyll a in the sample
C_a	($\mu\text{g L}^{-1}$)	amount of chlorophyll a in the sample
CTD		conductivity, temperature and depth
DCMU		3-(3,4-dichlorophenyl)-1,1-dimethyl urea
DPM		disintegrations per minute
F_o		<i>in situ</i> fluorescence to determine FRI
F_{CTD}		relative fluorescence from the CTD
F_{dcmu}		enhanced DCMU <i>in situ</i> fluorescence to determine FRI
FRI		fluorescence response index
I	(Wm ⁻² , PAR)	light intensity for the P-I calculations
$\langle I_o \rangle$	($\mu\text{mol s}^{-1} \text{m}^{-2}$)	irradiance measured at the water surface (< 0.5m depth)
$\langle I_z \rangle$	($\mu\text{mol s}^{-1} \text{m}^{-2}$)	mean irradiance for the euphotic zone (Platt <i>et. al.</i> 1988)
IC	(mg)	incorporated carbon
IDF		isotope discrimination factor = 1.05
IRD	(DPM)	incorporated radioactivity in the dark for the P-I curve
IRL	(DPM)	incorporated radioactivity in the light for the P-I curve
$-k_1$		extinction coefficient calculated using SECCHI depth
$-k_2$		extinction coefficient calculated using the irradiance data
NH_3	(μM)	ammonia concentration of the sample
$NO_2 + NO_3$	(μM)	amount of nitrates in the sample
P_a	($\mu\text{g L}^{-1}$)	amount of phaeophytin a in the sample
P^B	(mg C • mg Chla ⁻¹ • h ⁻¹)	carbon fixation rates normalised to chlorophyll a biomass for the P-I curve
P_m^B	(mg C • mg Chla ⁻¹ • h ⁻¹)	maximum specific production rate at light saturation in units of, i.e. the plateau of the P-I curve
$P\theta_4$	(μM)	amount of phosphate in the sample
PAR	(Wm ⁻²)	photosynthetically active radiation

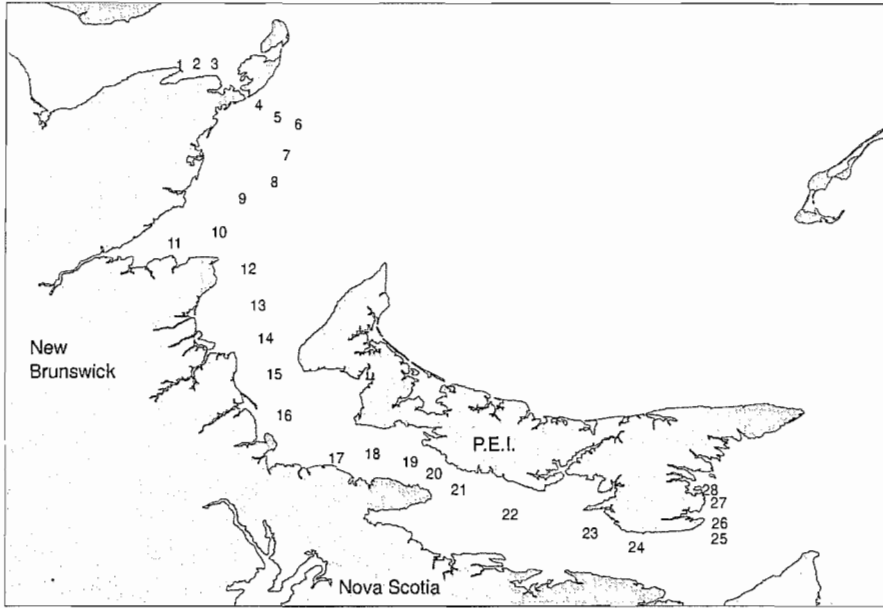
R^B (mg C • mg Chl a^{-1} • h $^{-1}$)		ordinal intercept of the P-I curve
R_{408a}		absorbance reading at 408 nm with sample acidified to determine T_a
R_{430}		absorbance reading at 430 nm to determine % C_a
R_{430a}		absorbance reading at 430 nm with sample acidified to determine % C_a
R_{640}		absorbance reading at 640 nm to determine NH_3
Sal	(PSU)	Salinity
SECCHI	(m)	SECCHI depth
σ_τ	(kg m $^{-3}$)	density (sigma-theta)
SiO_4	(μ M)	amount of silicate in the sample
T_a	(μ g L $^{-1}$)	total a pigment in the sample
tanh		hyperbolic tangent of the P-I curve

APPENDIX 2.0 1995 Sampling Summary.

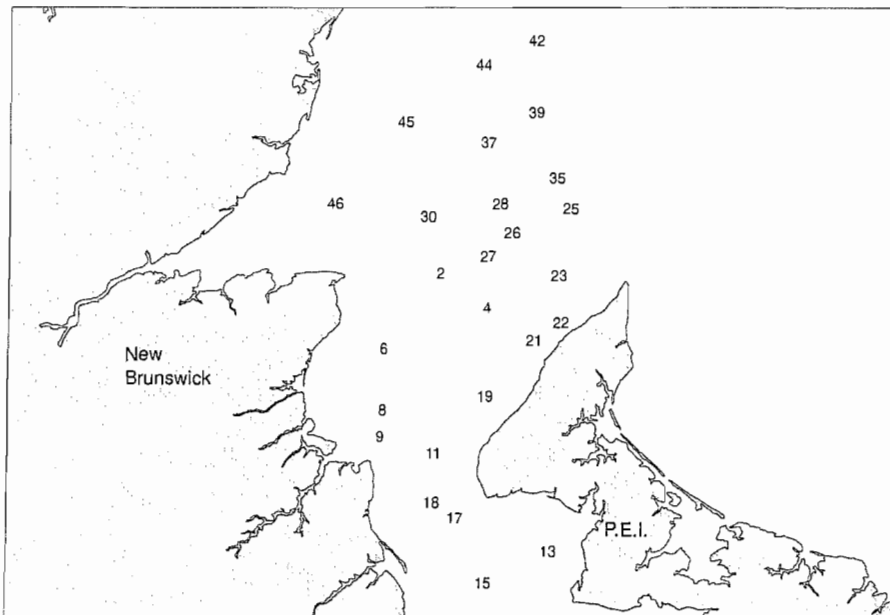
Survey	Survey Description	Start Date	End Date	Number of Stations	Number of CTD Casts	Number of Irrad. Casts	Number of P-I Samples
Cardigan, P.E.I.	1995 Cardigan, P.E.I. field sample collection	06-Nov-95	07-Nov-95	5	5	5	1
Survey 95-01	1995 Opilio June Research Survey sample collection	05-Jun-95	12-Jun-95	28	27	13	4
Survey 95-02	1995 June Juvenile Cod Research Survey (MFAD Survey J095) sample collection (collaborative survey)	28-Jun-95	06-Jul-95	26	0	0	0
Survey 95-03	1995 July Navicula Research Survey sample collection	29-Jun-95	08-Jul-95	38	38	21	19
Survey 95-04	1995 August Navicula Research Survey sample collection	08-Aug-95	15-Aug-95	44	44	16	17
Survey 95-05	1995 September Navicula Research Survey sample collection	07-Sep-95	14-Sep-95	34	34	14	13
Survey 95-06	1995 October Navicula Research Survey sample collection	11-Oct-95	19-Oct-95	35	34	15	13
Total for Year:				210	182	84	

APPENDIX 3.0 1995 Sampling Locations.

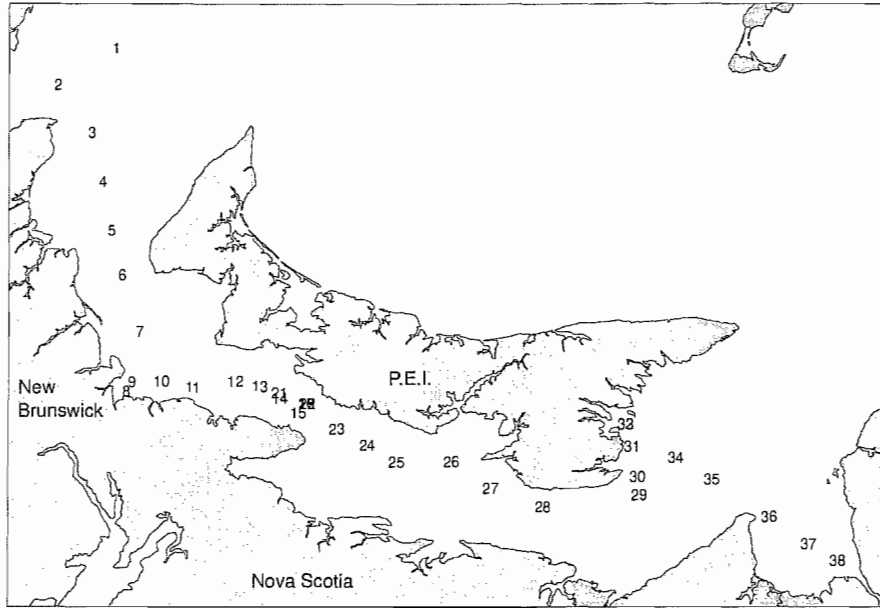
Appendix 3.1 Survey 95-01 sampling locations.



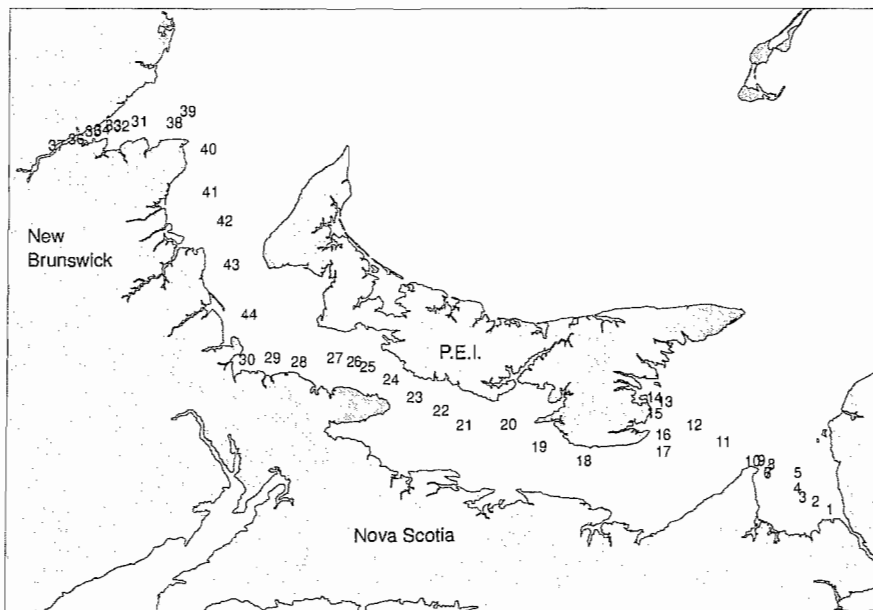
Appendix 3.2 Survey 95-02 sampling locations.



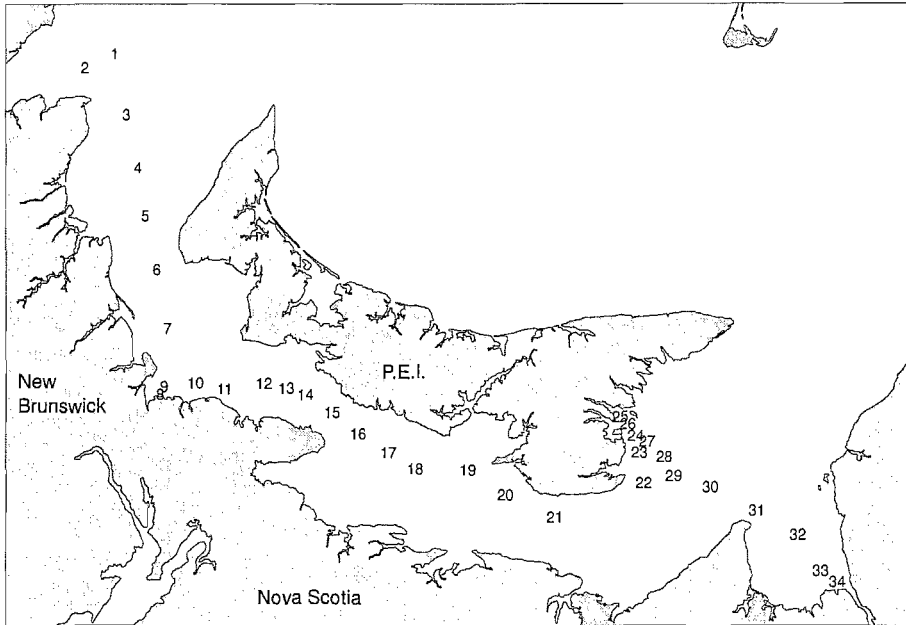
Appendix 3.3 Survey 95-03 sampling locations.



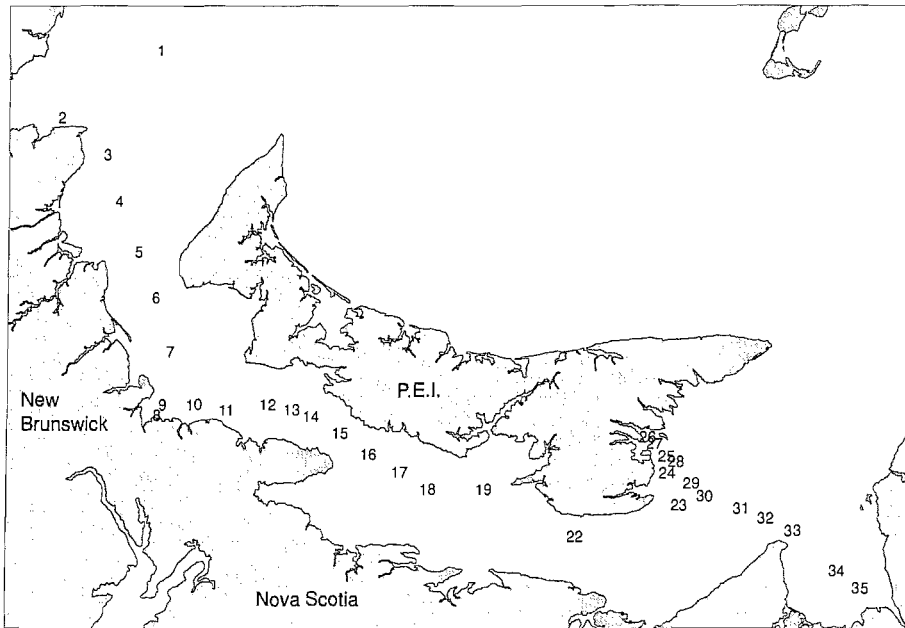
Appendix 3.4 Survey 95-04 sampling locations.



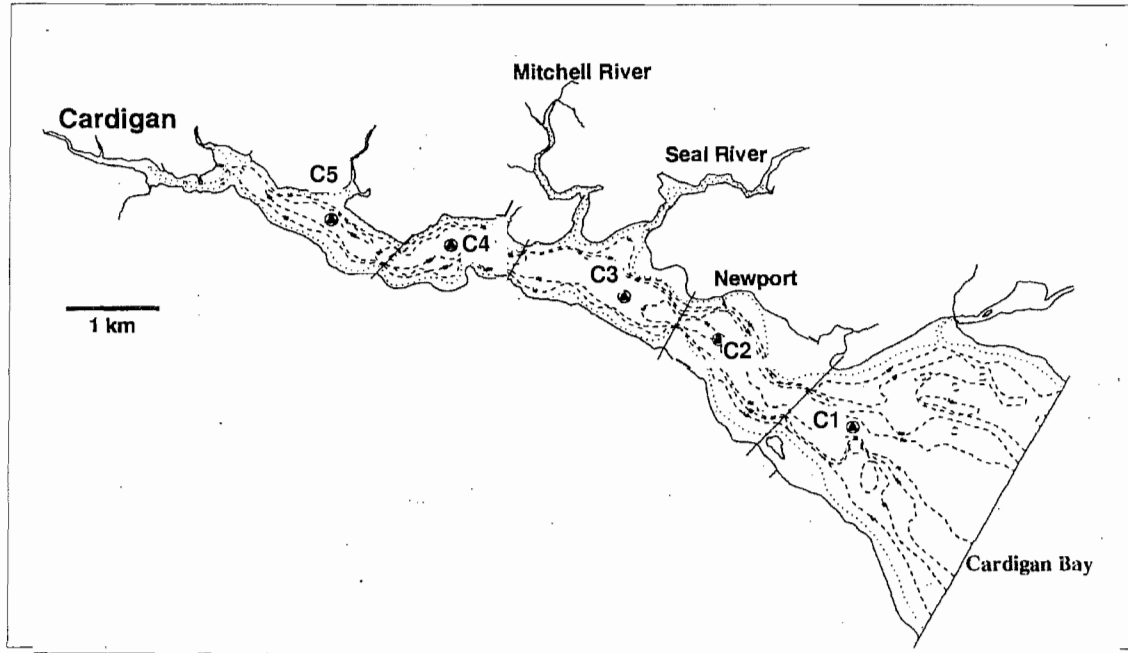
Appendix 3.5 Survey 95-05 sampling locations.



Appendix 3.6 Survey 95-06 sampling locations.



Appendix 3.7 1995 Cardigan, PEI fixed sampling sites.



Appendix 3.8 1995 Primary productivity sampling summary.

Survey	Station Number	Depth (m)	Date	Location	Weather
Cardigan, P.E.I.					
	05	4	07-Nov-95	C5 - CARDIGAN RIVER, P.E.I	Sunny; cool; light breeze
Cardigan, P.E.I. Total number of stations: 1					
Survey 95-01					
	09	4	06-Jun-95	GULF OF ST. LAWRENCE - OFF TABUSINTAC BAY, N.B.	Sunny with cloud cover
	19	4	09-Jun-95	NORTHUMBERLAND STRAIT - SEACOW HEAD, P.E.I. & MURRAY CORNER, N.B.	Sunny; scattered cloud
	21	4	09-Jun-95	NORTHUMBERLAND STRAIT - BETWEEN INDIAN POIINT, N.B. & RICHARD POINT, P.E.I.	Sunny; scattered cloud; slight breeze
	28	4	12-Jun-95	ENTRANCE TO CARDIGAN BAY - OFF PANMURE ISLAND, P.E.I.	Overcast; fair breeze
Survey 95-01 Total number of stations: 4					

Survey	Station Number	Depth (m)	Date	Location	Weather
Survey 95-03					
	01	4	29-Jun-95	GULF OF ST. LAWRENCE	Overcast; fair breeze
	04	4	30-Jun-95	EAST OF KOUCHIBOUQUAC, N.B.	Cloud cover; breeze
	05	4	30-Jun-95	8 MILES EAST OF SEAL POINT, P.E.I.	Cloud cover with sun; slight breeze
	09	4	04-Jul-95	1 MILE EAST OF GRAND-DIGUE POINT, N.B.	Fog; calm
	11	4	04-Jul-95	2.5 MILES NORTH OF FAGAN POINT, N.B.	Foggy and hazy; calm; sun trying to burn thru
	13	4	04-Jul-95	5.5 MILES NORTH OF CAPE BRUIN, N.B.	Hazy; sun trying to break thru; slight breeze; fog
	16	4	05-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; slight breeze
	18	4	05-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; slight breeze
	19	4	05-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; slight breeze
	20	4	05-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; slight breeze; slightly hazy
		4	05-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; slight breeze; slightly hazy
		4	05-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; slight breeze; slightly hazy
	21	4	06-Jul-95	6 MILES NORTH OF PEACOCK POINT, N.B.	Sunny; fair breeze
	22	4	06-Jul-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; fair breeze
	23	4	06-Jul-95	4 MILES SOUTH OF PREVOST COVE, P.E.I.	Sunny; fair breeze
	27	4	07-Jul-95	5.5 MILES SSW OF PRIM POINT, P.E.I.	Sunny; fair breeze
	29	4	07-Jul-95	5 MILES SE OF CAPE BEAR, P.E.I.	Sunny; calm; slightly hazy
	32	4	07-Jul-95	1.5 MILES EAST OF PANMURE HEAD, P.E.I.	Sunny; slight breeze
	34	4	08-Jul-95	10 MILES EAST OF MURRAY HEAD, P.E.I.	Sunny; fair breeze
	36	4	08-Jul-95	0.5 MILES EAST OF CAPE GEORGE, N.S.	Sunny; slight breeze
	37	4	08-Jul-95	7 MILES WEST OF LONG POINT, N.S.	Sunny; scattered cloud; fairly calm; very slight breeze

Survey 95-03 Total number of stations: 19

Survey	Station Number	Depth (m)	Date	Location	Weather
Survey 95-04					
	02	4	08-Aug-95	4.5 MILES NORTH OF CAPE JACK, N.S.	Clear; sunny; very slight breeze
	04	4	08-Aug-95	9 MILES SW OF CAPE GEORGE, N.S.	Sunny; scattered cloud; calm
	05	4	08-Aug-95	8 MILES EAST OF CAPE GEORGE, N.S.	Clear; sunny; slight breeze
	07	4	09-Aug-95	1.7 MILES SE OF CAPE GEORGE, N.S.	Overcast; slight breeze
	11	4	09-Aug-95	7.5 MILES NW OF LIVINGSTONE POINT, N.S.	Overcast; slight breeze
	12	4	09-Aug-95	2 MILES NE OF FISHERMAN'S BANK	Sunny with some cloud cover
	14	4	10-Aug-95	1.8 MILES EAST OF PANMURE HEAD, P.E.I.	Overcast; calm
	17	4	10-Aug-95	5 MILES SE OF CAPE BEAR, P.E.I.	Hazy; sun breaking thru
	19	4	10-Aug-95	5.5 MILES SE OF PRIM POINT, P.E.I.	Hazy; with sun breaking thru; calm
	23	4	11-Aug-95	5 MILES SW OF TRYON HEAD, P.E.I.	Sunny; clear; slight breeze
	24	4	11-Aug-95	3 MILES SW OF BORDEN POINT, P.E.I.	Sunny; clear; slight haze; fair breeze
	25	4	11-Aug-95	5 MILES SW OF SEACOW HEAD, P.E.I.	Clear; sunny; fairly windy; slightly hazy
	30	4	12-Aug-95	2 MILES EAST OF SHEDIAC ISLAND, N.B.	Broken cloud with sunny breaks; fast wind; fairly rough
	31	4	14-Aug-95	0.5 MILES OFF PORTAGE ISLAND, N.B.	Overcast; slight breeze
	33	1	14-Aug-95	2 MILES EAST OF GRAND DUNE ISLAND, N.B.	Overcast with patches of clear sky and sunny breaks
		4	14-Aug-95	2 MILES EAST OF GRAND DUNE ISLAND, N.B.	Overcast with patches of clear sky and sunny breaks
		7	14-Aug-95	2 MILES EAST OF GRAND DUNE ISLAND, N.B.	Overcast with patches of clear sky and sunny breaks
	35	4	14-Aug-95	0.5 MILE SOUTH OF OAK POINT, N.B.	Sunny; scattered cloud; fair breeze
	39	1	15-Aug-95	7 MILES NORTH OF POINT ESCUMINAC, N.B.	Partial cloud; sun; strong breeze; relatively
		22	15-Aug-95	7 MILES NORTH OF POINT ESCUMINAC, N.B.	Partial cloud; sun; strong breeze; relatively

Survey 95-04 Total number of stations: 17

Survey	Station Number	Depth (m)	Date	Location	Weather
Survey 95-05					
	01	4	07-Sep-95	9.5 MILES NE OF POINT ESCUMINAC, N.B.	Very rough; wind; cloud cover with sunny breaks
	06	4	08-Sep-95	6 MILES WEST OF WEST POINT, P.E.I.	Sunny; slight breeze; mild sea
	09	4	09-Sep-95	2 MILES EAST OF GRANDE-DIGUE PT., N.B.	Broken cloud; slight breeze; relatively calm
	11	4	09-Sep-95	2.5 MILES EAST OF CAP PELE, N.B.	Broken cloud; fair breeze; moderate sea
	13	4	09-Sep-95	5.5 MILES NORTH OF CAPE BRUIN, N.B.	Overcast; fair breeze; moderate sea
	14	4	10-Sep-95	5.5 MILES NORTH OF PEACOCK POINT, N.B.	Overcast; breeze; light sea
	15	4	10-Sep-95	3.5 MILES EAST OF GUNNING POINT, N.B.	Overcast; breeze; light sea
	16	4	10-Sep-95	3.5 MILES SOUTH OF BELLS POINT, P.E.I.	Overcast; fair breeze; light sea
	24	4	12-Sep-95	2 MILES EAST OF SMITH POINT, P.E.I.	Sunny; fair breeze; moderate seas
	25	4	12-Sep-95	1.0 MILE SW OF RED POINT, P.E.I.	Sunny; strong wind; light moderate sea
	26	4	12-Sep-95	1.7 MILES EAST OF CARDIGAN POINT, P.E.I.	Sunny; strong wind; light moderate sea
	29	4	14-Sep-95	FISHERMAN'S BANK	Overcast; fairly windy; moderate sea
	32	4	14-Sep-95	9 MILES WEST OF JUDIQUE, N.S.	Overcast; brisk wind; moderate sea

Survey 95-05 Total number of stations: 13

Survey	Station Number	Depth (m)	Date	Location	Weather
Survey 95-06					
	01	4	11-Oct-95	18 MILES NE OF POINT ESCUMINAC, N.B.	Overcast; breezy; cool
	05	4	12-Oct-95	6.5 MILES NE OF RICHIBOUCTO CAPE, N.B.	Cloudy; cool; wet; breezy
	06	4	12-Oct-95	6 MILES WEST OF WEST POINT, P.E.I.	Cloudy; sunny breaks; windy; cool
	09	4	13-Oct-95	2 MILES EAST OF GRANDE-DIGUE POINT, N.B.	Sunny; light winds
	11	4	13-Oct-95	2.5 MILES NE OF CAP PELE, N.B.	Sunny; warm; light breeze
	13	4	13-Oct-95	5.5 MILES NORTH OF CAPE BRUIN, N.B.	Overcast; cool; light breeze
	14	4	14-Oct-95	5 MILES NORTH OF PEACOCK POINT, N.B.	Sunny; cool; light wind
	15	4	14-Oct-95	5 MILES NORTH OF CAPE TORMENTINE, N.B.	Sunny; warm; light breeze
	16	4	14-Oct-95	4 MILES SOUTH OF BELLS POINT, P.E.I.	Sunny; warm; light wind
	25	4	18-Oct-95	2.0 MILES EAST OF SMITH POINT, P.E.I.	Sunny; cool; light winds
	26	4	18-Oct-95	1.0 MILE SW OF RED POINT, P.E.I.	Sunny; cool; breezy
	27	4	18-Oct-95	1.7 MILES EAST OF CARDIGAN POINT, P.E.I.	Overcast; cool; breezy
	30	4	19-Oct-95	FISHERMAN'S BANK	Sunny with clouds; cool; light breeze

Survey 95-06 Total number of stations: 13

Appendix 4.1 Physical and biological data collected from Cardigan, PEI
06-Nov-95 to 07-Nov-95

Cardigan, P.E.I.

STATION 01

Location C1 - CARDIGAN RIVER, P.E.I.

Date	06-Nov-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:30 AM	12.50	4	0.4	5.2	9.2					46°12.06'	62°30.36'	318	70	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	8.83	8.54	27.22	0.69	117	28.97	22.42	0.67	0.71	5.51	2.60	0.62	0.16	0.44	2.13
4	8.83	8.86	25.32	0.65	168	28.98	22.44	0.53	0.87	5.19	3.21	0.45	0.14	0.43	1.87
7	8.91	7.91	24.05	0.67	164	28.99	22.43	0.51	0.93	5.29	2.55	0.37	0.15	0.44	2.21

Weather: Cold; overcast; breezy

Comment: Did not anchor on station

Cardigan, P.E.I.**STATION 02**

Location C2 - CARDIGAN RIVER, P.E.I.

Date	06-Nov-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	12:28 PM	8.50	3	0.5	3.6	8.2					46°12.45'	62°30.36'	396	87	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	8.17	12.66	30.06	0.58		28.10	21.84	0.66	1.05	6.51	3.10	0.53	0.11	0.40	1.14
4	8.19	11.71	31.01	0.62	215	28.56	22.20	0.68	1.19	6.05	3.71		0.11	0.37	1.11
7	8.19	11.08	30.70	0.64	211	28.57	22.20	0.87	0.71	6.50	3.66	0.40	0.12	0.39	0.95

Weather: Cold; overcast; breezy; snow squalls**Comment:** Red navigation buoy is out of position - did not anchor; AMMONIA sample for 4m missing**Cardigan, P.E.I.****STATION 03**

Location C3 - CARDIGAN RIVER, P.E.I.

Date	06-Nov-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	1:13 PM	8.00	2.5	0.6	8.3	8					46°13.07'	62°32.57'	449	99	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	7.87	12.97	33.00	0.61	210	28.34	22.07	0.76	1.24	6.46	3.87	0.29	0.12	0.35	0.59
4	7.99	12.97	33.00	0.61	259	28.39	22.09	0.65	1.36	5.63	3.12	0.36	0.11	0.34	0.62
7	8.39	11.08	29.11	0.62	231	28.68	22.26	0.69	1.25	5.21	2.80	0.38	0.12	0.38	0.82

Weather: Cold; overcast; snow and rain squalls; light winds**Comment:** Tied up to thermograph mooring from station; all thermographs in good condition as well as the mooring itself

Cardigan, P.E.I.

STATION 04

Location C4 - CARDIGAN RIVER, P.E.I.

Date	07-Nov-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:40 AM	9.50	3	0.5	10.1	6.7					46°13.28'	62°34.30'	1286	283

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	6.50	11.71	37.00	0.68	124	27.57	21.63	0.74	1.01	6.35	2.93	0.23	0.18	0.32	1.51
4	7.95	12.00	35.00	0.66	266	28.36	22.07	0.82	1.02	6.91	3.18	0.26	0.11	0.33	0.69

Weather: Sunny; cool; calm**Comment:** Anchored on station

Cardigan, P.E.I.

STATION 05

Location C5 - CARDIGAN RIVER, P.E.I.

Date	07-Nov-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:21 AM	5.00	2.5	0.6	9.3	7.1					46°13.37'	62°35.42'	1343	295

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	7.18	10.00	31.00	0.68	91	27.08	21.16	0.91	0.31	6.65	3.06	0.35	0.27	0.32	1.70
4	7.93	13.00	41.00	0.68	309	27.71	21.57	1.27	1.65	7.94	4.29	0.33	0.14	0.37	0.97

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R	
4	7.94	0.02	0.33	-0.11	0.23	0.51	0.05	0.35	0.37	Suspect parameter values

Weather: Sunny; cool; light breeze**Comment:** Anchored on station

Appendix 4.2 Physical and biological data collected during Survey 95-01
05-Jun-95 to 12-Jun-95

Survey 95-01

STATION 01

Location CHALEUR BAY OFF POINTE DE MAISONETTE, N.B.

Date	05-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	3:15 PM	18.00	5.75	0.3	16.2	14.1	20	0.95	2.22	0.57	47°51.13'	64°59.56'	1749	385	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	12.78	1.27	2.37	0.47	26	20.16	14.89	0.63	0.58	0.24	0.59	0.42	0.12	0.33	11.36
4	6.93	1.90	1.90	0.00	31	24.75	19.35	0.58	0.12	0.26	0.60	0.23	0.11	0.29	9.16
15	1.24	2.85	5.06	0.44	34	28.29	22.64	0.57	0.40	0.46	1.25	0.37	1.23	0.60	1.42

Weather: Sunny; breeze

Comment: Taking a long time to do station; lack of space due to change in sample protocol making things more difficult; also 1st station since last year; sampling for Thomas Landry; Paryse will be looking after the 14C_Pi and IRR-INCUBAT data.

Survey 95-01

STATION 02

Location CHALEUR BAY OFF CARAQUET, N.B. (FISHERMAN CHANNEL)

Date	05-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	6:19 PM	10.00	5	0.3	12	12.9	22	2.06	3.80	0.46	47°51.50'	64°54.67'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	11.99	1.90	3.80	0.50	36	21.18	15.83			0.37	0.67	0.26	0.07	0.37	10.01

Weather: Sunny; fair breeze**Comment:** Sampling for Thomas Landry

Survey 95-01

STATION 03

Location CHALEUR BAY OFF BAS-CARAQUET, N.B. - (OFF CARAQUET SHOAL)

Date	05-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	6:55 PM	8.00	4.75	0.3	11.8	12.2	23	3.16	5.06	0.38	47°51.52'	64°49.37'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	6.60	2.85	5.70	0.50	44	22.58	17.28			0.69	1.46	0.24	0.22	0.42	4.98

Weather: Sunny; fair; breeze**Comment:** Sampling for Thomas Landry

Survey 95-01

STATION 04

Location GULF OF ST. LAWRENCE

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:00 AM	17.50	7	0.2	16.1	10.8	27	2.47	2.85	0.13	47°41.97'	64°36.95'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	9.95	1.90	3.16	0.40	27	25.64	19.66			0.29	0.56	0.23	0.07	0.20	3.75

Weather: SunnyComment:

Survey 95-01

STATION 05

Location GULF OF ST. LAWRENCE

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:42 AM	29.00	5	0.3	14.4	10.8	26	1.90	1.90	0.00	47°38.96'	64°31.17'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	10.31	1.90	2.85	0.33	24	25.48	19.49			0.31	0.60	0.24	0.03	0.24	3.59

Weather: SunnyComment:

Survey 95-01

STATION 06

Location GULF OF ST. LAWRENCE

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	11:25 AM	41.00	7.5	0.2	20.4	11.6	26	1.27	1.42	0.11	47°37.05'	64°25.17'	1668	367

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	10.40	1.58	2.22	0.29	9	25.31	19.34	0.48	0.25	0.21	0.45	0.14	0.06	0.15	3.22
4	10.27	0.95	1.42	0.33	15	25.23	19.28	0.45	0.43	0.22	0.40	0.12	0.01	0.19	3.54
15	5.42	1.27	1.90	0.33	15	28.74	22.66	0.21	0.13	0.12	0.26	0.63	0.09	0.26	0.53
27	0.57	0.95	0.95	0.00	9	29.90	23.96	0.23	0.02	0.01	0.11	1.95	2.25	0.68	1.30

Weather: Sunny

Comment:

Survey 95-01

STATION 07

Location GULF OF ST. LAWRENCE OFF TRACADIE, N.B.

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:56 PM	40.00	7	0.2	19.2	10.5	27	2.22	1.90	-0.17	47°29.98'	64°28.99'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	10.26	1.27	2.22	0.43	14	25.56	19.50			0.21	0.38	0.20	0.06	0.19	3.16

Weather: Sunny; slight breeze

Comment:

Survey 95-01

STATION 08

Location GULF OF ST. LAWRENCE, WAY OFF POINTE A BARREAU, N.B.

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:12 PM	40.00	7	0.2	14.2	11	27	2.37	2.53	0.06	47°23.22'	64°32.20'	1053	232

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	10.92	1.90	2.85	0.33	15	26.08	19.85	0.39	0.33	0.18	0.32	0.25	0.01	0.13	2.61
4	10.58	1.58	2.22	0.29	15	26.03	19.83	0.42	0.16	0.15	0.35	0.24	0.03	0.14	2.37
15	4.27	0.95	1.58	0.40	14	29.10	23.08	0.30	0.20	0.08	0.22	0.84	0.06	0.34	0.88
27	-0.11	0.95	1.11	0.14	11	30.07	24.13	0.31	0.06	0.01	0.07	2.63	2.60	0.81	2.28

Weather: Sunny; slight breeze; cloud cover with scattered clouds**Comment:**

Survey 95-01

STATION 09

Location GULF OF ST. LAWRENCE - OFF TABUSINTAC BAY, N.B.

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	5:15 PM	27.00	6.5	0.2	17.4	11.3	27	2.22	2.69	0.18	47°19.11'	64°41.51'	507	112

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	10.89	2.06	3.01	0.32	21	26.32	20.04	0.44	0.18	0.19	0.52	0.52	0.02	0.16	3.30
4	10.75	1.90	3.16	0.40	24	26.29	20.03	0.41	0.31	0.23	0.48	0.43	0.00	0.23	3.27
15	4.88	1.27	2.22	0.43	15	28.74	22.70	0.35	0.27	0.15	0.20	0.93	0.10	0.35	0.30
25	0.28	1.27	1.27	0.00	11	30.02	24.07	0.21	0.63	0.03	0.36	3.52	3.34	0.86	3.59

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.23	0.07	14.51	-0.26	0.94	2.28	0.02	8.57	0.32

Weather: Sunny with cloud cover

Comment:

Survey 95-01

STATION 10

Location MIRAMICHI BAY, N.B.

Date	06-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$< I_o >$	$< I_z >$
Time	7:30 PM	23.00	3.5	0.4	11.8	11.8	28	3.16	5.06	0.38	47°11.12'	64°47.91'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	10.94	2.22	4.11	0.46	36	25.57	19.40			0.55	0.98	0.23	0.00	0.21	4.49

Weather: Cloudy; windComment:

Survey 95-01

STATION 11

Location MIRAMICHI BAY, N.B.

Date	07-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$< I_o >$	$< I_z >$
Time	10:30 AM	8.00	3	0.5	17.5	12.4	23	4.11	5.06	0.19	47°08.72'	65°00.27'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	7.89	3.16	5.06	0.38	48	26.22	20.30			0.66	1.32	0.56	0.00	0.29	5.08

Weather: Hazy but bright, fair breezeComment:

Survey 95-01

STATION 12

Location NORTHUMBERLAND STRAIT - OFF POINT ESCUMINAC, N.B.

Date	07-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	12:45 PM	22.00	6	0.3	17	10.2	28	3.01	3.80	0.21	47°02.28'	64°39.18'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	10.06	2.53	3.80	0.33	26	26.58	20.37			0.34	0.66	0.26	0.11	0.22	4.01

Weather: Sunny; scattered cloud; windyComment: Stabilizers are out! Strong current

Survey 95-01

STATION 13

Location NORTHUMBERLAND STRAIT - OFF KOUCHIBOUQUAC, N.B.

Date	07-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	2:05 PM	27.00	6	0.3	21.4	10	28	2.22	2.85	0.22	46°53.50'	64°36.58'	1312	289	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	9.95	2.22	3.48	0.36	16	27.47	21.09	0.75	0.53	0.44	0.64	0.26	0.00	0.32	2.07
4	9.95	2.53	3.80	0.33	22	27.43	21.05	0.38	0.30	0.44	0.63	0.26	0.00	0.21	2.05
15	3.97	6.65	15.82	0.58	93	28.00	22.18	0.59	0.64	1.55	2.23	1.21	0.17	0.35	1.25
25	0.75	1.27	1.42	0.11	16	29.86	23.93	0.40	0.71	0.12	0.53	2.54	1.50	0.70	3.34

Weather: Sunny; scattered cloud; windyComment:

Survey 95-01

STATION 14

Location MID-NORTHUMBERLAND STRAIT - OFF RICHIBOUCTO, N.B.

Date	07-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	4:28 PM	21.00	6	0.3	16.5	10.2	28	2.22	3.48	0.36	46°45.18'	64°34.23'	605	133

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	10.04	2.22	3.16	0.30	22	27.03	20.73	0.55	0.13	0.37	0.69	0.33	0.00	0.25	2.92
4	9.99	2.22	4.75	0.53	25	27.03	20.74	0.56	0.11	0.50	1.02	0.25	0.00	0.21	3.43
15	0.96	1.90	1.90	0.00	20	29.71	23.79	0.47	0.51	0.16	0.67	2.73	1.44	0.70	3.63
20	0.91	1.27	1.27	0.00	17	29.67	23.76	0.38	0.63	0.08	0.59	2.94	1.57	0.74	3.81

Weather: Sunny with cloud cover; windy**Comment:** Depth 1m domoic acid sample missing**Survey 95-01**

STATION 15

Location MID-NORTHUMBERLAND STRAIT - OFF WEST POINT, P.E.I.

Date	07-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	6:30 PM	22.00	3.5	0.4	14.9	10.5	28	2.53	3.48	0.27	46°36.78'	64°31.69'	308	68

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	9.67	2.22	3.48	0.36	39	27.17	20.90			0.42	0.57	0.16	0.19	0.19	2.06

Weather: Scattered cloud; fairly windy**Comment:** Strong current

Survey 95-01

STATION 16

Location MID-NORTHUMBERLAND STRAIT - OFF COCAGNE, N.B.

Date	07-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:00 PM	12.00	3	0.5	15.8	10.5	29	2.85	5.70	0.50	46°26.82'	64°28.83'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	10.26	3.01	5.06	0.41	51	26.75	20.47			0.43	0.85	0.16	0.00	0.21	0.94

Weather: Cloud cover; fair breeze**Comment:** Strong current

Survey 95-01

STATION 17

Location NORTHUMBERLAND STRAIT - OFF CAP PELE, N.B.

Date	09-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:45 AM	13.00	4	0.4	12.1	10.9	28	3.16	5.38	0.41	46°16.20'	64°13.83'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4		2.53	5.70	0.56						0.56	0.89	0.16	0.00	0.29	4.77

Weather: Sunny; scattered cloud; slight breeze**Comment:** Missed CTD cast. Will try CTD cast on the way back. Strong current.

Survey 95-01

STATION 18

Location NORTHUMBERLAND STRAIT - OFF SHEMOGUE, N.B.

Date	09-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:41 AM	17.00	4.5	0.3	15.9	11.5	30	3.48	4.75	0.27	46°17.30'	64°03.20'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	11.31	2.53	5.70	0.56	41	26.50	20.12			0.57	0.93	0.22	0.00	0.24	2.31

Weather: Sunny; scattered cloud**Comment:** Strong current; Lat. and Long. was not recorded on station - extrapolated

Survey 95-01

STATION 19

Location NORTHUMBERLAND STRAIT - SEACOW HEAD, P.E.I. & MURRAY CORNER, N.B.

Date	09-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:53 AM	22.00	6	0.3	17.5	10.9	28	2.47	2.53	0.03	46°15.16'	63°52.37'	1715	377

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	10.51	2.53	3.80	0.33	23	27.09	20.71	0.50	0.84	0.58	1.15	0.04	0.01	0.35	1.86
4	10.16	2.53	5.06	0.50	29	27.07	20.73	0.65	0.67	0.64	1.18	0.09	0.06	0.24	1.60
8	9.98	3.01	5.06	0.41	51	27.21	20.88	0.70	0.77	0.62	1.18	0.27	0.01	0.28	1.86
15	9.86	2.22	2.85	0.22	38	27.25	20.93	0.46	0.76	0.38	0.83	0.16	0.00	0.26	2.16

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.64	0.13	5.46	0.58	0.98	0.63	0.01	0.25	0.20

Weather: Sunny; scattered cloud**Comment:** Strong current

Survey 95-01

STATION 20

Location NORTHUMBERLAND STRAIT - FIXED LINK PATH

Date	09-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:43 PM	18.00	4.5	0.3	17.2	10.8	29	1.58	2.37	0.33	46°12.49'	63°45.31'	1816	400

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	9.68	2.85	4.11	0.31	25	27.37	21.04	0.54	0.77	0.52	1.11	0.04	0.00	0.30	1.96
4	9.59	2.53	5.06	0.50	35	27.42	21.11	1.04	1.39	0.41	1.19	0.34	0.00	0.31	1.87
8	9.48	3.16	4.75	0.33	44	27.47	21.16	0.62	1.11	0.47	0.89	0.55	0.00	0.35	1.96
15	9.33	2.22	2.53	0.13	35	27.46	21.18	0.50	0.99	0.25	0.63	1.08	0.00	0.28	1.97

Weather: Sunny; scattered cloud; slight breeze**Comment:** Lots of fishing boats; causeway coming along nicely

Survey 95-01

STATION 21

Location NORTHUMBERLAND STRAIT - BETWEEN INDIAN POINT, N.S. & RICHARD POINT, P.E.I.

Date	09-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:05 PM	22.00	5	0.3	19.8	11.3	30	1.90	1.27	-0.50	46°08.85'	63°38.19'	1877	413

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	9.73	2.22	3.16	0.30	17	27.55	21.17	0.49	0.62	0.28	0.51	0.44	0.00	0.28	2.05
4	9.31	2.22	4.11	0.46	22	27.53	21.22	0.89	1.41	0.42	0.70	0.28	0.01	0.29	2.02
10	8.86	2.22	4.11	0.46	40	27.61	21.36	0.93	1.52	0.36	0.66	0.34	0.03	0.34	2.17
20	6.63	1.90	2.53	0.25	31	28.04	21.97	0.92	2.13	0.17	0.72	0.84	0.09	0.37	2.96

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.42	0.15	5.43	0.93	0.94	-7.34	0.04	0.50	0.48

Weather: Sunny; scattered cloud; slight breeze**Comment:** Erin practiced filtering on this station. The TD probe was not in profile mode when deployed.

Survey 95-01

STATION 22

Location NORTHUMBERLAND STRAIT - OFF SMITH POINT, N.S. & CANOE COVE, P.E.I.

Date	09-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	5:53 PM	21.00	5	0.3	14.1	11	30	1.58	2.69	0.41	46°02.56'	63°23.20'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	10.66	2.22	3.80	0.42	29	27.65	21.09			0.38	0.59	0.44	0.00	0.25	1.46

Weather: Sunny; clear**Comment:**

Survey 95-01

STATION 23

Location NORTHUMBERLAND STRAIT - OFF JENYN'S POINT, P.E.I.

Date	12-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:20 AM	24.00			13	7.7	30	2.22	3.16	0.30	45°57.88'	63°00.04'	798	176	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	7.50	3.01	6.01	0.50	33	28.72	22.40	0.89	1.28	1.34	0.56	0.31	0.00	0.36	2.03
4	7.11	1.27	2.85	0.56	49	28.87	22.58	0.65	0.85	1.09	0.65	1.44	0.00	0.43	2.00
9	6.93	2.85	6.01	0.53	56	28.90	22.62	0.66	1.52	1.37	0.60	0.19	0.00	0.41	1.88
20	5.32	2.53	6.96	0.64	41	29.16	23.02	0.73	1.76	1.04	0.73	0.37	0.27	0.47	3.06

Weather: Overcast; with sunny breaks; calm**Comment:**

Survey 95-01

STATION 24

Location NORTHUMBERLAND STRAIT - OFF WOOD ISLAND, P.E.I.

Date	12-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	1:13 PM	21.00	5.75	0.3	16.3	8.8	30	1.90	2.06	0.08	45°54.32'	62°46.96'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	7.34	2.53	4.43	0.43	26	29.06	22.70			0.87	0.56	-0.03	0.00	0.37	0.69

Weather: Overcast with sunny breaks; calmComment:

Survey 95-01

STATION 25

Location MID-NORTHUMBERLAND STRAIT - OFF GUERNSEY COVE, P.E.I.

Date	12-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	2:56 PM	35.00			16.3	9.8	30	1.27	2.22	0.43	45°56.43'	62°22.88'	128	28	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	9.41	1.90	3.16	0.40	19	28.89	22.28	0.50	0.45	0.33	0.29	1.31	0.04	0.44	0.64
4	9.12	1.90	3.80	0.50	23	29.07	22.46	0.33	0.48	0.29	0.26	0.25	0.00	0.28	0.38
20	5.79	1.27	1.90	0.33	25	29.57	23.28	0.59	0.70	0.24	0.31	0.32	0.00	0.33	0.51
27	3.00	1.90	2.37	0.20	84	29.85	23.77	0.51	0.28	0.23	0.28	0.13	0.00	0.32	0.59

Weather: Overcast; calm (see comments)Comment: Extremely strong current; impossible to get accurate SECCHI reading; it was reading >10m; started to blow up 1/2 way through station; rain drops

Survey 95-01

STATION 26

Location NORTHUMBERLAND STRAIT - OFF CAPE BEAR, P.E.I.

Date	12-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	4:18 PM	32.00	7	0.2	12.6	9.2	30	1.27	5.06	0.75	46°00.02'	62°22.98'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	7.86	2.22	4.11	0.46	35	29.26	22.78			0.53	0.60	0.31	0.47	0.34	0.33

Weather: Overcast; rain; slight breeze**Comment:** Very strong current

Survey 95-01

STATION 27

Location NORTHUMBERLAND STRAIT - OFF DES BARRES POINTE, P.E.I.

Date	12-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	5:05 PM	43.00	6.25	0.2	12.5	9.4	31	1.90	2.53	0.25	46°05.03'	62°23.02'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	8.58	1.58	2.53	0.38	19	29.40	22.79			0.21	0.28	0.19	0.00	0.28	0.30

Weather: Raining; slight breeze**Comment:**

Survey 95-01

STATION 28

Location ENTRANCE TO CARDIGAN BAY - OFF PANMURE ISLAND, P.E.I.

Date	12-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	6:10 PM	17.00	5	0.3	13.9	10.7	30	1.27	3.16	0.60	46°08.25'	62°25.59'	185	41

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	9.21	2.22	5.06	0.56	38	29.14	22.51	0.57	0.69	0.45	0.39	0.23	0.00	0.39	0.39
4	8.92	2.22	4.43	0.50	38	29.13	22.54	0.61	0.61	0.43	0.49	0.11	0.00	0.36	0.45
8	8.92	2.53	5.06	0.50	35	29.17	22.56	0.71	0.53	0.67	0.48	0.02	0.00	0.37	0.35
16	7.47	2.85	5.06	0.44	51	29.39	22.94	0.57	0.87	0.83	0.59	0.32	0.88	0.43	0.64

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.43	0.07	2.47	-0.45	0.79	0.70	0.03	0.45	0.42

Weather: Overcast, fair breeze**Comment:**

Appendix 4.3 Physical and biological data collected during Survey 95-02
28-Jun-95 to 06-Jul-95

Survey 95-02

STATION 02 Location: 20 MILES EAST OF ESCUMINAC, N.B. (4TL)

Date:	28-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	9:45 AM	28	15.9	15.4	Appendix 4.3	47°04.66'	64°31.89'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4		27.00	0.29	0.34	0.00	0.41	3.42

Weather: Sunny; calm; warm

Comment: J095 fishing set #2; permanent station 43; VEMCO readings not reliable (await recalibration coefficients); VEMCO #307 for horizontal oblique tow

Survey 95-02

STATION 04 Location: TAIL END OF SHEDIAC VALLEY

Date:	28-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	1:30 PM	37	19.2	15.5	Appendix 4.3	47°00.28'	64°23.86'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4		28.00	0.37	0.32	0.00	0.12	2.49

Weather: Sunny; calm; warm

Comment: J095 permanent station #268; all original data were recorded in yellow 'Rite in the Rain' book

Survey 95-02

STATION 06

Location: POINTE SAPIN, N.B.

Date:	28-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	6:00 PM	22	24.1	17.3	Appendix 4.3	46°55.16'	64°41.27'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	16.50	26.00	0.41	0.38	0.00	0.14	4.37

Weather: Sunny; calm; warmComment: J095 permanent station #56; 15 livers from longhorn sculpins collected - liquid N2 so not weighed; Note: filled 500 μm net with sand so repeated tow next morning 08:00, stn 61 which is <3 miles from #56

Survey 95-02

STATION 08

Location: 4TL

Date:	29-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	10:43 AM	21	16.9	16.5	Appendix 4.3	46°47.96'	64°41.27'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	16.50	26.00	0.28	0.37	0.14	0.13	4.18

Weather: Windy; wavesComment: J095 permanent station #69. All chlorophyll filterings were 250ml water; Horiz tow 11 min

Survey 95-02

STATION 09

Location: 4TL

Date:	29-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	1:45 PM	15		16.4	Appendix 4.3	46°44.43'	64°41.99'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	16.50	26.00	0.29	0.32	0.00	0.08	3.97

Weather:Comment: J095 permanent station #111.

Survey 95-02

STATION	11	Location:	4TL						
Date:	29-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude		
Time:	4:50 PM	12	16.1	16	Appendix 4.3	46°42.43'	64°32.02'		
		Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
		4	15.00	28.00	0.73	0.80	0.00	0.20	2.36

Weather:

Comment: J095 permanent station #83; 5 longhorn sculpin's for J.S. Total with the 15 from set 6 = 20.

Survey 95-02

STATION	13	Location:	EGMONT BAY, P.E.I.						
Date:	30-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude		
Time:	9:50 AM	12	14.7	15	Appendix 4.3	46°30.23'	64°12.69'		
		Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
		4	14.50	27.00	0.80	0.79	0.00	0.23	1.77

Weather: Rain; overcast

Comment: J095 permanent station #93; Note: surf. and bot. temps are always from VEMCO on trawl; 4m data are mine by hand thermometer and refractometer on water sample.

Survey 95-02

STATION	15	Location:	EGMONT BAY, P.E.I.						
Date:	30-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude		
Time:	12:45 PM	15		15.5	Appendix 4.3	46°26.53'	64°23.60'		
		Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
		4	16.00	27.00	1.61	1.06	0.00	0.15	1.50

Weather: Clearing

Comment: J095 permanent station #104; Jellyfish!!!

Survey 95-02

STATION 17

Location: 4TL

Date:	30-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	2:18 PM				Appendix 4.3	46°34.48'	64°28.62'

Weather:

Comment: J095 permanent station #88; fish station only. Otter trawl with rock hopper foot gear; wing width 14 m; trawls 20 min.

Survey 95-02

STATION 18

Location: NORTH END OF NORTHUMBERLAND STRAIT

Date:	30-Jun-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	4:00 PM	18	14.8	14.7	Appendix 4.3	46°36.25'	64°32.71'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.50	27.00	1.94	1.54	0.00	0.24	3.51

Weather:

Comment: J095 permanent station #87; NAVICULA sampled beside us @ same time; therefore compare between 2 ships; spoke to Kevin by radio; Mark angled 10 cunners off N.W. PEI @ evening anchorage; we took livers for J.S. (these are near stn. #19)

Survey 95-02

STATION 19

Location: WEST COAST OF P.E.I.

Date:	01-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	8:30 AM	24	14.6	15.7	Appendix 4.3	46°49.41'	64°23.73'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.00	27.00	0.68	0.43	0.00	0.15	3.32

Weather:

Comment: J095 permanent station #73; no VEMCO on horizontal tow; livers were angled the night before at the nearby wharf

Survey 95-02

STATION 21 Location: WEST COAST OF P.E.I.

Date:	01-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	11:40 AM	16	15.8	16.1	Appendix 4.3	46°56.22'	64°15.31'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	16.50	27.00	0.56	0.32	0.00	0.09	2.77

Weather:Comment: J095 permanent station #59.

Survey 95-02

STATION 22 Location: 4TL

Date:	01-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	10:31 AM	20			Appendix 4.3	46°58.44'	64°10.99'

Weather:Comment: J095 permanent station #53; fish station only

Survey 95-02

STATION 23 Location: NW COAST OF P.E.I.

Date:	02-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	11:14 AM	37	16.2	16	Appendix 4.3	47°04.11'	64°11.01'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	16.00	27.00	0.68	0.36	0.00	0.09	3.32

Weather:Comment: J095 permanent station #271

Survey 95-02

STATION 25

Location: 4TL

Date:	02-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	2:38 PM	40	17.8	17	Appendix 4.3	47°12.56'	64°09.32'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$NO_2 + NO_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	17.00	27.00	0.51	0.30	0.00	0.10	2.47

Weather:Comment: J095 permanent station #239; no VEMCO on horizontal net

Survey 95-02

STATION 26

Location: 4TL

Date:	02-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	3:46 PM	42			Appendix 4.3	47°09.69'	64°19.17'

Weather:Comment: J095 permanent station #247; fish station only

Survey 95-02

STATION 27

Location: 4TL

Date:	02-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	5:26 PM	39	18.7	17	Appendix 4.3	47°06.90'	64°23.16'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$NO_2 + NO_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	17.50	27.00	0.46	0.32	0.00	0.11	3.24

Weather:Comment: J095 permanent station #254; vertical hauls (150 μm net) done twice instead of four times up and down from this set to end of cruise - to save time

Survey 95-02

STATION 28

Location: 4TL

Date:	03-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	8:46 AM	46	16	16.2	Appendix 4.3	47°13.00'	64°21.37'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.50	28.00	0.44	0.29	0.00	0.09	1.90

Weather: Sunny; calmComment: J095 permanent station #332

Survey 95-02

STATION 30

Location: 4TL

Date:	03-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	12:19 PM	31	18.3	17.2	Appendix 4.3	47°11.53'	64°33.85'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.50	27.00	0.33	0.23	0.00	0.12	2.98

Weather:Comment: J095 permanent station #236; VEMCO file called #29 by mistake

Survey 95-02

STATION 35

Location: 4TL

Date:	05-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	10:11 AM	44	17.9	16.6	Appendix 4.3	47°16.16'	64°11.81'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.00	28.00	0.19	0.13	0.00	0.10	1.91

Weather: Sunny; clear; breezy; 20 knot SW windComment: J095 permanent station #329

Survey 95-02

STATION 37

Location: 4TL

Date:	05-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	12:57 PM	47	19.6	17	Appendix 4.3	47°20.93'	64°23.29'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.00	27.00	0.27	0.17	0.00	0.04	2.57

Weather:

Comment: J095 permanent station #316; horizontal tow descended once only; at surface at least 2 minutes, lots of fucus, etc (2 jars)

Survey 95-02

STATION 39

Location: 4TL

Date:	05-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	3:19 PM	54	20.2	17.5	Appendix 4.3	47°24.33'	64°15.13'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.50		0.29	0.17	0.00	0.07	2.15

Weather:

Comment: J095 permanent station #319; Problems with winch; horizontal tow stuck at 102m cable out for some minutes - did not descend as far as wanted

Survey 95-02

STATION 42

Location: 4TL

Date:	06-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	8:31 AM	58.5	18.3	17.1	Appendix 4.3	47°33.03'	64°15.27'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a (µg/L)	P_a (µg/L)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.00	27.00	0.32	0.19	0.19	0.08	2.68

Weather:

Comment: J095 permanent station #404; winch problems; horizontal tow less deep than intended

Survey 95-02

STATION 44

Location: 4TL

Date:	06-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	11:05 AM	37	19.1		Appendix 4.3	47°30.14'	64°24.27'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	18.50	26.00	0.34	0.21	0.16	0.07	4.24

Weather:

Comment: J095 permanent station #202; fish trawl destroyed; spilled some of the horizontal tow contents on deck; estimate loss at <= 10%; VEMCO failed on horizontal tow; greater concentration of copepods here than at #42; (comments continued on sheet)

Survey 95-02

STATION 45

Location: 4TL

Date:	06-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	12:37 PM	27	20.7		Appendix 4.3	47°23.15'	64°37.60'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	19.50	26.00	0.28	0.18	0.15	0.07	4.38

Weather:

Comment: J095 permanent station #12

Survey 95-02

STATION 46

Location: 4TL

Date:	06-Jul-95	Total Depth (m)	Air Temperature (°C)	Surface Temperature (°C)	Bottom Temperature (°C)	Latitude	Longitude
Time:	2:33 PM	20	22		Appendix 4.3	47°13.05'	64°49.54'

Depth (m)	Temp. (°C)	Sal (PSU)	C_a ($\mu\text{g/L}$)	P_a ($\mu\text{g/L}$)	$\text{NO}_2 + \text{NO}_3$ (μM)	PO_4 (μM)	SiO_4 (μM)
4	19.50	26.00	0.52	0.30	0.14	0.09	3.90

Weather:

Comment: J095 permanent station #25; last set of mission

Appendix 4.4 Physical and biological data collected during Survey 95-03
29-Jun-95 to 08-Jul-95

Survey 95-03

STATION 01

Location GULF OF ST. LAWRENCE

Date	29-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	1:10 PM	39.00	5	0.3	26	1.27	1.58	0.20	47°17.13'	64°33.33'	1522	335			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.61	0.95	1.27	0.25		26.75	19.50	0.57	0.41	0.21	0.19	0.22	0.00	0.13	3.95
4	15.60	1.27	3.48	0.64	25	26.76	19.51	0.50	-0.02	0.20	0.21	0.36	0.00	0.11	2.35
15	7.97	2.22	4.43	0.50	39	28.04	21.82	0.59	0.02	0.43	0.67	0.34	0.00	0.20	1.50
25	2.45	1.58	2.22	0.29	22	29.48	23.52	0.43	-0.15	0.26	0.45	1.77	1.73	0.71	3.98

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.20	0.09	9.83	0.46	0.96	1.06	0.04	0.71	0.63

Weather: Overcast; fair breeze

Comment: Strong current; waves cause ~2m difference in water depth; 1m - F/FDCMU questionable, taken from pail; salinities questionable because not rezeroed before each taken; thermometer broken so no air or surface temperatures.

Survey 95-03

STATION 02

Location 6 MILES NORTH OF POINT ESCUMINAC, N.B.

Date	29-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	3:57 PM	24.00	6.5	0.2	26.5	1.90	3.80	0.50	47°10.89'	64°47.84'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.62	2.53	5.70	0.56	37	25.57	18.59			0.60	0.42	0.37	0.01	0.21	4.43

Weather: Sunny with scattered cloud; fair breeze**Comment:** Thermometer broken

Survey 95-03

STATION 03

Location 6 MILES SE OF ESCUMINAC, N.B.

Date	30-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	9:46 AM	24.00	5.5	0.3	25.5	2.53	5.70	0.56	47°02.25'	64°39.27'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.68	3.01	6.33	0.53	48	25.64	18.63			0.70	0.47	0.35	0.00	0.17	4.34

Weather: Overcast with sunny breaks, slight breeze**Comment:** Thermometer broken

Survey 95-03

STATION 04

Location EAST OF KOUCHIBOUQUAC, N.B.

Date	Time	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
30-Jun-95	10:48 AM	27.00	6.25	0.2	26	2.22	3.16	0.30	46°53.57'	64°36.61'	604	133

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.80	2.53	5.70	0.56		25.64	18.60	0.55	0.50	0.74	0.44	0.39	0.00	0.16	3.58
4	15.77	2.47	6.01	0.59	48	25.73	18.69	0.50	0.31	0.63	0.43	0.37	0.00	0.12	3.50
15	7.27	2.47	5.06	0.51	48	27.84	21.75	0.52	0.21	0.55	0.81	0.22	0.00	0.36	3.34
22	3.56	1.27	2.22	0.43	28	28.92	22.99	0.53	0.46	0.23	0.64	1.90	1.67	0.73	8.00

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.63	0.18	5.69	0.22	0.99	0.11	0.02	0.20	0.19

Weather: Cloud cover; breeze**Comment:** Thermometer broken

Survey 95-03

STATION 05

Location 8 MILES EAST OF SEAL POINT, P.E.I.

Date	30-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:50 PM	21.00	8.75	0.2	26	1.27	2.22	0.43	46°44.98'	64°34.19'	1049	231

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.12	1.90	4.75	0.60	26	26.30	19.04	0.54	0.00	0.65	0.44	0.17	0.00	0.14	3.34
4	16.05	2.06	4.75	0.57	32	26.29	19.05	0.63	0.60	0.67	0.44	0.22	0.00	0.14	3.41
10	12.44	2.53	6.33	0.60	54	26.63	20.02	0.64	0.18	0.92	0.61	0.25	0.00	0.13	2.98
17	6.12	1.90	4.11	0.54	33	28.27	22.22	0.50	0.47	0.61	0.72	0.49	0.49	0.40	4.74

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.67	0.21	6.29	0.38	0.98	0.13	0.03	0.35	0.37

Weather: Cloud cover with sun; slight breeze

Comment: Thermometer broken

Survey 95-03

STATION 06

Location 5.5 MILES WEST OF WEST POINT, P.E.I.

Date	30-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	3:02 PM	22.00	5	0.3	26	1.90	2.53	0.25	46°36.76'	64°31.74'	605	133			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.45	3.16	6.33	0.50	40	26.26	19.15	0.64	0.13	1.01	0.84	0.33	0.00	0.17	3.37
4	15.11	3.16	7.28	0.57	52	26.37	19.31	0.63	0.53	1.31	0.90	0.20	0.00	0.18	3.39
10	12.63	2.85	7.28	0.61	55	27.38	20.57	0.43	0.35	1.47	1.08	0.23	0.00	0.35	2.32
17	12.26	3.01	7.59	0.60	47	27.42	20.66	0.59	0.26	1.52	1.08	0.22	0.02	0.21	1.75

Weather: Hazy with scattered cloud**Comment:** Strong current; thermometer is broken

Survey 95-03

STATION 07

Location 6 MILES EAST OF BOUCTOUCHE DUNE, N.B.

Date	30-Jun-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	5:10 PM	11.50	4.75	0.3	27	3.80	8.86	0.57	46°26.51'	64°27.19'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.81	5.06	13.92	0.64	102	26.74	19.44			3.11	1.53	0.18	0.00	0.19	0.94

Weather: Hazy with sun; breeze**Comment:** Thermometer broken

Survey 95-03

STATION 08

Location 1 MILE NORTH OF PARLEE BEACH, N.B.

Date	04-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	8:15 AM	5.50	4.5	0.3	27	2.53	6.33	0.60	46°15.43'	64°30.75'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.23	3.16	8.86	0.64	57	26.94	19.06			1.16	1.20	0.24	0.00	0.34	1.49

Weather: Fog; calm**Comment:**

Survey 95-03

STATION 09

Location 1 MILE EAST OF GRANDE-DIGUE POINT, N.B.

Date	04-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:40 AM	8.50	5.5	0.3			27	1.90	3.48	0.45	46°17.02'	64°29.05'	226	50

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.89	2.22	5.38	0.59	43	26.95	19.14	0.61	0.50	0.62	0.80	0.10	0.00	0.27	1.26
4	17.64	2.85	6.96	0.59	54	26.94	19.19	0.57	0.20	0.78	1.06	0.23	0.03	0.25	1.32
6	16.60	3.80	8.23	0.54	64	26.96	19.44	0.66	0.41	1.01	1.68	0.28	0.04	0.30	2.01

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.78	0.23	8.11	0.79	0.99	0.21	0.03	0.36	0.36

Weather: Fog; calmComment:

Survey 95-03

STATION 10

Location 4.5 MILES NORTH OF ROBICHAUD, N.B.

Date	04-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:31 AM	13.00	5.25	0.3			27	2.22	3.80	0.42	46°17.24'	64°21.52'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.81	2.69	6.65	0.60	55	27.04	19.46			0.85	1.35	0.32	0.03	0.26	2.28

Weather: Fog, calmComment:

Survey 95-03

STATION 11

Location 2.5 MILES NORTH OF FAGAN POINT, N.B.

Date	04-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	11:10 AM	13.00	5.75	0.3	27	1.58	1.58	0.00	46°16.20'	64°13.77'	1278	281

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.24	2.53	5.38	0.53	40	27.05	19.59	0.56	0.23	0.81	1.18	0.16	0.03	0.22	1.79
4	16.05	2.85	6.65	0.57	59	27.05	19.63	0.46	0.34	1.00	1.46	0.19	0.02	0.22	1.80
8	16.02	2.85	7.12	0.60	65	27.06	19.65	0.59	0.27	0.95	1.36	0.09	0.03	0.22	1.83
11	16.00	2.69	7.28	0.63	59	27.06	19.65	0.58	0.71	0.97	1.27	0.13	0.03	0.31	1.80

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.00	0.43	11.55	2.19	0.99	0.12	0.05	0.55	0.58

Weather: Foggy and hazy; calm; sun trying to burn through**Comment:** Ran through jellyfish bloom

Survey 95-03

STATION 12

Location 7 MILES NORTH OF SHEMOGUE, N.B.

Date	04-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	1:12 PM	18.00	6	0.3	27	3.16	5.54	0.43	46°17.27'	64°03.21'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.03	2.85	6.65	0.57	59	27.10	19.89			1.49	1.34	0.06	0.06	0.23	1.20

Weather: Fog; haze; sun trying to break thru; slight breeze**Comment:** Visibility very low

Survey 95-03

STATION 13

Location 5.5 MILES NORTH OF CAPE BRUIN, N.B.

Date	04-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	1:45 PM	19.00	5.5	0.3	27	2.37	3.16	0.25	46°16.43'	63°57.08'	912	201			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.68	3.16	7.59	0.58	50	27.10	19.75	0.65	0.32	1.24	1.81	0.01	0.05	0.24	0.66
4	15.30	3.48	10.44	0.67	71	27.11	19.84	0.63	0.14	1.46	2.05	0.06	0.05	0.25	0.87
10	15.12	3.48	8.54	0.59	69	27.11	19.88	0.63	0.32	1.48	1.85	0.14	0.05	0.25	0.58
17	15.11	3.16	7.59	0.58	69	27.11	19.88	0.63	0.10	1.22	1.70	0.23	0.08	0.25	0.62

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.46	0.11	6.20	-0.05	0.98	0.23	0.01	0.31	0.27

Weather: Hazy; sun trying to break thru; slight breeze, fog.Comment:

Survey 95-03

STATION 14

Location 4.5 MILES NORTH OF PEACOCK POINT, N.B.

Date	Time	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
04-Jul-95	4:05 PM	23.00			27	2.37	4.11	0.42	46°14.12'	63°52.30'		

Weather: Sun; hazy; slight breeze**Comment:** CTD + FDCMU only; extra station - fit in because had time**Survey 95-03**

STATION 15

Location 2 MILES NORTH OF CAPE JOURIMAN, N.B.

Date	Time	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
04-Jul-95	4:36 PM	15.00			27.5	1.11	1.58	0.30	46°11.66'	63°47.75'		

Weather: Sun; slight breeze; slightly hazy**Comment:** CTD + FDCMU only; extra station - fit in because had time

Survey 95-03

STATION 16

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	05-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	8:15 AM	19.00	7	0.2	27.5	0.95	1.90	0.50	46°13.16'	63°45.64'	1166	257			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.74	1.27	2.85	0.56	25	27.31	19.90	0.65	0.44	0.44	0.58	0.27	0.04	0.48	1.33
4	15.68	1.27	3.01	0.58	30	27.32	19.92	0.27	0.23	0.41	0.57	0.24	0.07	0.45	1.13
10	12.10	2.22	6.96	0.68	53	27.82	21.00	0.24	0.42	0.95	1.38	0.17	0.02	0.35	1.44
17	9.86	2.22	4.11	0.46	48	28.30	21.75	0.05	1.48	0.95	1.26	0.21	0.24	0.47	3.06

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.41	0.09	6.36	-0.42	0.97	0.64	0.02	0.40	0.30

Weather: Sunny, slight breeze**Comment:** Anchored in one spot today; as tide changes water will run by us; taking samples at various times through tidal cycle; strong current

Survey 95-03

STATION 17

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	05-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	10:05 AM	19.00	6.5	0.2	27	0.95	0.95	0.00	46°13.17'	63°45.60'	1943	427			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.77	1.27	2.22	0.43	17	27.27	19.86	0.23	0.75	0.38	0.61	-0.01	0.02	0.28	1.14
4	14.41	2.06	5.70	0.64	41	27.41	20.25	0.37	1.61	0.70	0.72	0.06	0.01	0.28	1.27
10	11.04	2.53	6.01	0.58	54	28.03	21.35	0.41	0.44	1.06	1.00	0.20	0.12	0.41	2.33
17	9.99	1.90	4.75	0.60	47	28.26	21.69	0.41	0.69	0.80	0.96	0.32	0.20	0.43	2.81

Weather: Sunny; slight breeze**Comment:** Very little current

Survey 95-03

STATION 18

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	05-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	11:30 AM	19.00	7.5	0.2	30	0.63	0.95	0.33	46°13.13'	63°45.58'	1326	292			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.80	0.63	3.16	0.80	16	27.35	19.91	0.32	0.44	0.26	0.40	0.09	0.00	0.32	1.25
4	14.41	1.58	3.16	0.50	29	27.43	20.26	0.53	1.30	0.39	0.48	0.15	0.01	0.27	1.19
10	10.64	2.69	7.28	0.63	54	28.14	21.50	0.47	0.45	0.95	0.96	0.18	0.09	0.45	2.33
17	10.21	2.53	4.75	0.47	42	28.20	21.62	0.54	0.39	0.91	1.03	0.22	0.16	0.43	2.54

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.39	0.16	7.56	1.00	0.97	6.79	0.02	0.44	0.38

Weather: Sunny; slight breezeComment: Very strong current

Survey 95-03

STATION 19

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	05-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:05 PM	19.00	6.5	0.2	28	0.79	0.95	0.17	46°13.12'	63°45.59'	2034	447

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.26	1.11	1.58	0.30	20	27.34	20.02	0.20	0.33	0.28	0.41	0.22	0.03	0.29	1.12
4	15.12	1.58	3.32	0.52	31	27.36	20.06	0.35	0.39	0.39	0.55	0.04	0.01	0.30	1.14
10	13.06	2.22	5.38	0.59	55	27.69	20.73	0.30	0.27	0.55	0.73	0.03	0.01	0.29	1.14
17	10.54	2.53	6.65	0.62	43	28.14	21.51	0.48	0.27	0.62	0.83	0.05	0.03	0.33	1.81

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.39	0.21	14.83	0.47	0.93	2.70	0.05	1.35	1.07

Weather: Sunny; slight breeze**Comment:**

Survey 95-03

STATION 20

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	05-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	2:30 PM	19.00	7.5	0.2			27.5	0.95	0.95	0.00	46°13.13'	63°45.59'	1194	263	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.46	1.74	2.69	0.35	21	27.30	19.74	0.33	0.31	0.24	0.42	0.10	0.02	0.27	1.05
4	15.37	1.90	3.16	0.40	27	27.34	20.00	0.21	0.49	0.39	0.53	0.18	0.01	0.26	1.09
10	14.37	2.53	5.70	0.56	55	27.46	20.30	0.38	0.25	0.76	0.96	0.17	0.03	0.29	1.44
17	10.87	2.06	5.38	0.62	48	28.08	21.42	0.37	0.65	0.73	0.95	0.35	0.20	0.44	2.66

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.39	0.15	5.57	0.50	0.93	2.13	0.04	0.52	0.50
4	0.39	0.14	5.14	0.82	0.92	0.91	0.04	0.52	0.48
4	0.39	0.10	5.58	0.12	0.96	0.72	0.02	0.40	0.38

Weather: Sunny; slight breeze; slightly hazy

Comment:

Survey 95-03

STATION 21

Location 6 MILES NORTH OF PEACOCK POINT, N.B.

Date	06-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:03 AM	21.00	6	0.3			28.5	1.90	2.53	0.25	46°15.08'	63°52.34'	1030	227

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.19	2.06	3.80	0.46	25	27.39	20.08	0.17	0.64	0.42	0.50	0.11	0.00	0.29	1.23
4	15.18	1.90	3.48	0.45	30	27.41	20.09	0.25	0.27	0.46	0.53	0.09	0.00	0.28	1.23
10	14.69	2.22	5.06	0.56	45	27.47	20.24	0.59	0.49	0.59	0.71	0.13	0.00	0.29	1.27
17	12.05	2.53	5.38	0.53	46	27.90	21.08	0.39	0.66	0.69	0.89	0.08	0.10	0.39	2.29

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.46	0.19	6.48	0.44	0.99	0.05	0.02	0.20	0.19

Weather: Sunny; fair breeze**Comment:** Strong current

Survey 95-03

STATION 22

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	06-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:46 AM	21.00	8	0.2	26.5	1.90	2.22	0.14	46°13.03'	63°45.36'	1334	293

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.61	1.90	3.80	0.50	27	27.36	19.96	0.44	0.22	0.38	0.56	0.18	0.06	0.31	1.31
4	15.58	2.06	3.80	0.46	33	27.36	19.97	0.16	0.42	0.39	0.56	-0.04	0.01	0.27	0.98
10	14.50	2.37	5.38	0.56	51	27.40	20.23	0.45	0.33	0.56	0.70	-0.02	0.00	0.28	1.27
17	9.98	1.90	4.43	0.57	45	28.35	21.77	0.56	1.22	0.64	0.89	0.18	0.13	0.46	2.99

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.39	0.18	7.98	0.76	0.99	0.11	0.01	0.21	0.20

Weather: Sunny; fair breeze**Comment:** Same site as yesterday.

Survey 95-03

STATION 23

Location 4 MILES SOUTH OF PREVOST COVE, P.E.I.

Date	06-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	12:32 PM	22.00	5.75	0.3	27	1.27	1.58	0.20	46°08.79'	63°38.05'	1641	361			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.74	1.90	2.53	0.25	18	27.49	20.03	0.44	0.48	0.34	0.47	0.01	0.00	0.29	1.62
4	15.35	2.22	4.75	0.53	28	27.49	20.12	0.41	0.41	0.48	0.55	0.01	0.02	0.29	1.56
10	10.59	3.80	8.54	0.56	68	28.00	21.40	0.63	0.87	0.88	0.90	-0.08	0.01	0.32	1.80
17	7.62	2.22	5.22	0.58	41	28.82	22.48	0.78	1.96	0.72	0.85	-0.17	0.20	0.51	3.95

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.48	0.16	7.98	0.31	0.96	0.45	0.03	0.55	0.47

Weather: Sunny; fair breeze**Comment:**

Survey 95-03**STATION 24**Location 6.5 MILES SOUTH OF BIRCH POINT, P.E.I.

Date	06-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:26 PM	18.00	6.5	0.2			28.5	1.27	1.27	0.00	46°05.76'	63°30.46'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.42	1.27	3.01	0.58	20	27.33	19.76			0.39	0.41	-0.11	0.02	0.28	2.00

Weather: Sunny; slight breeze**Comment:** Ammonia's whole because don't have enough filters to filter it**Survey 95-03****STATION 25**Location 7.5 MILES SOUTH OF BLACK POINT, P.E.I.

Date	06-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:07 PM	22.00	6	0.3			27.5	1.11	1.27	0.13	46°02.61'	63°23.21'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.82	1.11	2.22	0.50	17	27.13	19.30			0.29	0.32	0.02	0.02	0.21	1.68

Weather: Sunny; fair breeze**Comment:** Ammonia's whole because don't have enough filters to filter it

Survey 95-03

STATION 26

Location 5 MILES WEST OF PRIM POINT, P.E.I.

Date	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
06-Jul-95	19.00	6.5	0.2			27.5	1.42	2.37	0.40	46°02.56'	63°09.90'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.59	1.27	2.53	0.50	32	27.96	20.43			0.33	0.41	0.08	0.02	0.24	1.29

Weather: Sunny; slight breeze**Comment:** Ammonia's whole because don't have enough filters to filter it

Survey 95-03

STATION 27

Location 5.5 MILES SSW OF PRIM POINT, P.E.I.

Date	07-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	9:19 AM	22.00	7.5	0.2	27	0.79	1.27	0.38	45°57.90'	62°59.97'	1456	320			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.34	0.95	1.27	0.25		27.64	19.80	0.47	0.32	0.21	0.27	0.15	0.03	0.23	1.03
4	17.24	1.11	2.22	0.50	19	27.57	19.77	0.40	0.12	0.23	0.32	-0.03	0.07	0.23	1.20
10	11.64	1.90	4.11	0.54	40	28.93	21.94	0.58	0.38	0.44	0.70	0.09	0.05	0.36	1.55
17	10.91	1.58	3.64	0.57	35	28.99	22.11	0.63	1.27	0.54	0.76	0.28	0.10	0.41	1.75

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.23	0.27	9.45	0.88	0.99	0.18	0.03	0.37	0.37

Weather: Sunny; fair breezeComment:

Survey 95-03

STATION 28

Location 3 MILES SOUTH OF WOOD ISLAND, P.E.I.

Date	07-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	11:27 AM	22.00	6	0.3	28	1.27	1.74	0.27	45°54.20'	62°46.99'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	13.94	1.58	3.16	0.50	32	28.77	21.39			0.39	0.54	0.09	0.10	0.33	1.61

Weather: Sunny; fair breezeComment:

Survey 95-03

STATION 29

Location 5 MILES SE OF CAPE BEAR, P.E.I.

Date	07-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:10 PM	36.00	12.75	0.1	30.5	1.11	1.27	0.13	45°56.39'	62°22.96'	1497	329

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.36	0.95	2.37	0.60	11	28.53	20.70	0.40	0.22	0.14	0.20	0.14	0.08	0.18	1.20
4	16.46	0.95	1.90	0.50	12	28.54	20.69	0.28	0.07	0.10	0.35	0.11	0.07	0.20	1.31
15	12.82	1.74	3.16	0.45	24	29.13	21.89	0.39	0.25	0.29	0.40	0.29	0.08	0.37	0.92
28	3.21	1.27	2.85	0.56	28	30.04	23.91	0.36	0.56	0.29	0.57	0.57	0.34	0.62	2.24

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.10	0.47	16.85	3.39	0.97	-6.19	0.08	1.05	1.01

Weather: Sunny; calm; slightly hazy**Comment:**

Survey 95-03

STATION 30

Location 4 MILES EAST OF CAPE BEAR, P.E.I.

Date	07-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	2:40 PM	31.00	11	0.1	29	0.63	0.79	0.20	45°59.94'	62°23.02'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.97	1.90	2.53	0.25	13	28.68	20.90			0.20	0.38	0.19	0.16	0.31	1.54

Weather: Sunny; slight breeze**Comment:**

Survey 95-03

STATION 31

Location 1.7 MILES EAST OF GRAHAM POINT, P.E.I.

Date	07-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	3:21 PM	17.00	8.75	0.2	29.5	1.27	1.27	0.00	46°05.22'	62°24.85'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	14.23	1.42	2.22	0.36	19	28.93	21.46			0.24	0.27	-0.01	0.09	0.24	1.59

Weather: Sunny; slight breeze**Comment:**

Survey 95-03

STATION 32

Location 1.5 MILES EAST OF PANMURE HEAD, P.E.I.

Date	07-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_d$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	3:52 PM	19.00	7.75	0.2	27	0.95	1.11	0.14	46°09.40'	62°26.05'	1311	288			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.56	1.27	2.53	0.50	23	28.51	20.42	0.51	0.13	0.40	0.48	0.11	0.09	0.27	0.74
4	16.11	1.11	2.37	0.53	26	28.69	20.88	0.52	0.15	0.39	0.43	0.00	0.08	0.27	1.14
10	13.82	1.90	3.80	0.50	33	29.03	21.61	0.56	0.80	0.40	0.73	0.14	0.08	0.34	2.66
17	13.08	2.22	6.01	0.63	53	29.06	21.78	0.75	1.45	0.80	1.21	0.54	0.19	0.43	4.27

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.39	0.15	6.13	0.46	0.98	0.26	0.02	0.32	0.29

Weather: Sunny; slight breeze**Comment:**

Survey 95-03**STATION 33****Location** 1.5 MILES EAST OF PANMURE HEAD, P.E.I.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface F_{RI}	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Date	08-Jul-95											
Time	7:54 AM	20.00							46°09.30'	62°26.07'		

Weather: Sunny; slight breeze**Comment:** CTD cast only

Survey 95-03

STATION 34

Location 10 MILES EAST OF MURRAY HEAD, P.E.I.

Date	08-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:04 AM	35.00	10	0.2	29	0.47	1.27	0.62	46°03.04'	62°13.92'	985	217

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.61	0.47	1.74	0.73	12	28.68	20.76	0.38	0.58	0.16	0.20	0.06	0.08	0.22	1.25
4	16.61	0.32	1.42	0.78	15	28.68	20.76	0.56	0.17	0.14	0.18	0.07	0.10	0.23	1.15
17	13.11	0.95	2.53	0.62	25	28.84	21.61	0.45	0.29	0.28	0.34	0.30	0.16	0.35	1.16
28	5.11	0.95	2.85	0.67	26	29.88	23.61	0.39	1.03	0.35	0.72	0.92	1.18	0.64	3.99

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.14	0.20	10.02	0.32	0.99	0.19	0.01	0.24	0.19

Weather: Sunny; fair breeze**Comment:**

Survey 95-03

STATION 35

Location 15 MILES EAST OF MURRAY HEAD, P.E.I.

Date	08-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	11:25 AM	42.00	11.75	0.1	28	0.47	1.11	0.57	45°59.04'	62°04.93'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.09	0.47	1.11	0.57	12	28.63	20.61			0.14	0.24	0.12	0.08	0.20	1.15

Weather: Sunny; fair breeze**Comment:**

Survey 95-03

STATION 36

Location 0.5 MILES EAST OF CAPE GEORGE, N.S.

Date	08-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:47 PM	34.00	10.5	0.1	30	0.16	0.47	0.67	45°52.35'	61°50.60'	1866	411

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.95	0.32	0.63	0.50	10	28.08	20.00	0.29	0.62	0.11	0.16	0.43	0.10	0.21	0.68
4	17.61	0.63	1.27	0.50	11	28.06	20.06	0.31	0.30	0.14	0.22	0.18	0.11	0.25	0.82
20	10.39	1.90	3.48	0.45	38	28.82	22.07	0.49	0.38	0.37	0.72	0.09	0.07	0.37	1.50
28	4.91	1.11	1.58	0.30	18	29.47	23.30	0.46	0.90	0.17	0.34	0.91	0.88	0.66	5.55

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.14	0.15	5.97	1.06	0.99	-1.18	0.01	0.19	0.17

Weather: Sunny; slight breeze**Comment:**

Survey 95-03

STATION 37

Location 7 MILES WEST OF LONG POINT, N.S.

Date	08-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:56 PM	34.00	13	0.1	28	0.63	0.63	0.00	45°47.41'	61°40.52'	1792	394

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.95	0.47	0.79	0.40	8	28.08	19.99	0.53	0.45	0.11	0.15	0.04	0.09	0.28	0.84
4	16.83	0.63	1.27	0.50	11	28.14	20.30	0.42	0.12	0.12	0.25	0.18	0.07	0.21	0.61
20	6.80	1.90	3.48	0.45	42	29.00	22.72	0.33	0.32	0.34	0.69	0.38	0.13	0.43	2.43
28	3.30	0.95	1.42	0.33	15	29.76	23.68	0.42	0.14	0.12	0.21	0.51	0.63	0.55	3.67

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.12	0.12	5.89	0.21	0.99	0.28	0.01	0.18	0.14

Weather: Sunny; scattered cloud; fairly calm; very slight breezeComment:

Survey 95-03

STATION 38

Location 3 MILES NORTH OF CAPE JACK, N.S.

Date	08-Jul-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$			
Time	4:45 PM	27.00	11	0.1	29	0.95	0.95	0.00	45°44.34'	61°33.51'					
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.67	0.63	0.95	0.33	11	28.06	20.04			0.24	0.30	0.16	0.18	0.26	0.91

Weather: Sunny; scattered cloud; slight breeze**Comment:**

Appendix 4.5 Physical and biological data collected during Survey 95-04
08-Aug-95 to 15-Aug-95

Survey 95-04

STATION 01

Location 2 MILES NORTH OF HAVRE BOUCHER, N.S.

Date	08-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	7:26 AM	20.00	9.5	0.2	19.4	18.7	28.5	0.95	2.53	0.62	45°43.51'	61°32.60'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.82	0.95	3.16	0.70	27	28.23	19.90			0.24	0.25	0.34	0.04	0.15	1.63

Weather: Clear; sunny; slight breeze

Comment: Equipment serial #'s are the same for entire cruise, unless otherwise stated.

Survey 95-04

STATION 02

Location 4.5 MILES NORTH OF CAPE JACK, N.S.

Date	08-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:07 AM	31.00	9	0.2	21.7	19	28.5	0.95	2.22	0.57	45°45.16'	61°36.83'	1249	275

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	18.76	1.11	2.53	0.56	20	28.33	19.99	0.72	1.16	0.26	0.30	0.85	0.03	0.13	1.59
4	18.76	1.27	3.16	0.60	23	28.33	19.99	0.45	0.74	0.27	0.29	0.48	0.03	0.12	1.62
15	17.01	1.90	3.48	0.45	37	27.90	20.01	0.63	0.86	0.36	0.41	0.50	0.04	0.32	1.87
25	5.90	1.74	2.22	0.21	25	29.41	23.13	0.86	0.68	0.32	0.43	0.98	0.98	0.71	6.51

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.27	0.36	9.47	0.45	0.97	0.59	0.06	0.59	0.60

Weather: Clear; sunny; very slight breeze

Comment:

Survey 95-04

STATION 03

Location 9 MILES EAST OF CRIBBEAN HEAD, N.S.

Date	08-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:12 AM	33.00	9.75	0.2	22.4	19.5	28.5	0.63	1.11	0.43	45°46.13'	61°40.87'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.32	0.79	2.22	0.64	19	28.40	19.90			0.24	0.28	0.36	0.05	0.16	1.71

Weather: Sunny; scattered cloud; very slight breezeComment:

Survey 95-04

STATION 04

Location 9 MILES SW OF CAPE GEORGE, N.S.

Date	08-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:38 AM	34.00	12	0.1	25.2	20.8	28.5	0.63	0.95	0.33	45°48.16'	61°42.37'	1623	357

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.47	0.79	1.90	0.58	17	28.41	19.88	0.61	0.65	0.21	0.24	0.43	0.07	0.13	1.35
4	19.41	0.79	3.16	0.75	20	28.42	19.90	0.47	0.42	0.24	0.27	0.63	0.06	0.14	1.36
15	17.45	2.22	3.16	0.30	48	28.19	20.13	0.57	0.92	0.57	0.70	0.44	0.08	0.24	1.24
25	6.29	1.90	2.53	0.25	33	29.53	23.19	0.41	0.64	0.37	0.53	0.44	0.73	0.65	4.97

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.24	0.29	11.64	-0.76	0.99	0.26	0.03	0.43	0.40

Weather: Sunny; scattered cloud; calm**Comment:** Check data logger readings vs those on back; may have forgot to enter one, and may have double entered another; WATER IRRADIANCE PROBE NOT DIRECTLY IN SUN; good fishing here. Mackerel.

Survey 95-04

STATION 05

Location 8 MILES EAST OF CAPE GEORGE, N.S.

Date	08-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:35 PM	39.00	9	0.2	32.2	21.5	28.5	0.63	0.95	0.33	45°51.80'	61°42.01'	1769	389

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.92	0.95	1.58	0.40	16	28.38	19.74	0.63	0.66	0.21	0.21	0.22	0.07	0.14	1.05
4	19.77	0.95	1.58	0.40	18	28.33	19.73	0.37	0.67	0.22	0.22	0.50	0.06	0.14	1.01
17	13.91	2.53	5.38	0.53	54	28.64	21.26	0.70	1.00	0.55	0.59	0.53	0.06	0.35	3.01
27	2.61	0.95	1.58	0.40	26	29.89	23.82	0.65	1.36	0.15	0.27	2.07	2.74	0.94	10.67

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.22	0.26	13.22	0.83	0.99	0.16	0.02	0.34	0.28

Weather: Clear; sunny; slight breeze

Comment:

Survey 95-04

STATION 06

Location 1.7 MILES SE OF CAPE GEORGE, N.S.

Date	08-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	3:37 PM	31.00	8	0.2	22.8	20.1	29.5	0.95	1.27	0.25	45°51.62'	61°51.42'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.13	0.95	2.22	0.57	22	28.38	19.92			0.26	0.28	0.38	0.08	0.17	1.63

Weather: Scattered cloud; sunny; fair breezeComment:

Survey 95-04

STATION 07

Location 1.7 MILES SE OF CAPE GEORGE, N.S.

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	7:50 AM	32.00	9	0.2	21.5	19.7	28.5	0.95	2.06	0.54	45°51.68'	61°51.12'	524	115

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.47	0.95	2.85	0.67	22	28.47	19.93	0.53	0.59	0.22	0.20	0.30	0.09	0.15	1.15
4	19.47	0.95	2.22	0.57	23	28.48	19.93	0.59	-0.17	0.17	0.23	0.26	0.07	0.13	1.13
17	13.49	2.22	4.11	0.46	45	28.79	21.47	0.52	0.93	0.42	0.58	0.52	0.07	0.37	2.82
27	3.46	0.95			17	29.78	23.66	0.53	1.45	0.11	0.24	2.13	2.82	0.94	11.05

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.17	0.33	14.59	1.32	0.96	1.37	0.06	1.02	0.91

Weather: Overcast; slight breeze

Comment:

Survey 95-04

STATION 08

Location 2.5 MILES EAST OF CAPE GEORGE, N.S.

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:53 AM	38.00	7.5	0.2	26	19.5	20.5	1.58	2.69	0.41	45°53.52'	61°50.27'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.04	0.95	2.85	0.67	28	28.47	20.03			0.28	0.29	1.33	0.19	0.32	1.71

Weather: Overcast; slight breeze

Comment:

Survey 95-04

STATION 09

Location 2 MILES NORTH OF CAPE GEORGE, N.S.

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	10:20 AM	38.00	7.5	0.2	22	19.5	29	1.27	2.85	0.56	45°54.19'	61°53.27'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.94	1.58	3.80	0.58	33	28.48	20.07			0.29	0.30	0.78	0.11	0.17	1.99

Weather: Overcast; slight breeze

Comment:

Survey 95-04

STATION 10

Location 1.5 MILES NORTH OF CAPE GEORGE POINT, N.S.

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$< I_o >$	$< I_z >$	
Time	10:40 AM	40.00	6.5	0.2	20.1	19.3	28.5	1.27	2.85	0.56	45°54.12'	61°55.56'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.92	1.74	4.43	0.61	35	28.50	20.08			0.40	0.39	0.27	0.13	0.23	2.49

Weather: Overcast; slight breezeComment:

Survey 95-04

STATION 11

Location 7.5 MILES NW OF LIVINGSTONE POINT, N.S.

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	11:30 AM	44.00	9	0.2	26	20.1	28.5	1.11	2.22	0.50	45°58.50'	62°04.18'	1400	308

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.26	1.27	2.85	0.56	18	28.58	20.06	0.73	0.55	0.29	0.33	0.43	0.10	0.15	1.83
4	19.19	1.11	3.16	0.65	21	28.46	19.99	0.63	0.73	0.30	0.35	0.22	0.10	0.13	1.76
15	11.29	2.22	4.75	0.53	47	28.96	21.98	0.34	1.05	0.61	0.74	0.21	0.10	0.37	2.95
27	2.74	1.58	2.85	0.44	35	30.20	24.07	0.40	0.63	0.34	0.68	0.38	2.06	0.71	5.05

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.30	0.16	9.38	-1.03	0.96	1.37	0.04	0.96	0.76

Weather: Overcast; slight breeze**Comment:**

Survey 95-04

STATION 12

Location 2 MILES NE OF FISHERMAN'S BANK

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:00 PM	26.00	7	0.2	28.3	20.2	28	1.27	1.58	0.20	46°02.02'	62°13.39'	1426	314

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.22	0.97	2.08	0.53	20	28.37	19.91	0.74	0.77	0.35	0.30	0.30	0.11	0.13	1.38
4	19.23	1.58	3.48	0.55	24	28.34	19.88	0.64	0.45	0.37	0.34	0.22	0.09	0.14	1.33
13	13.00	2.85	7.28	0.61	60	28.87	21.63	0.71	0.61	0.75	1.03	0.10	0.26	0.29	2.42
22	5.08	1.58	2.85	0.44	28	29.94	23.64	0.40	1.69	0.32	0.53	2.26	3.31	0.83	9.27

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.37	0.07	6.73	-0.28	0.96	1.21	0.01	0.63	0.25

Weather: Sunny with some cloud cover**Comment:**

Survey 95-04

STATION 13

Location 4 MILES SE OF PANMURE HEAD, P.E.I.

Date	09-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	4:03 PM	19.00	8	0.2	23.6	21.6	28	0.79	1.58	0.50	46°07.29'	62°22.33'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.34	1.42	3.32	0.57	27	28.37	19.88			0.50	0.36	0.57	0.11	0.15	1.33

Weather: Sunny; calmComment: One CHLA spilled a little; marked with an X

Survey 95-04

STATION 14

Location 1.8 MILES EAST OF PANMURE HEAD, P.E.I.

Date	10-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	7:40 AM	24.00	6.5	0.2	20.8	20.6	28	1.58	3.80	0.58	46°08.19'	62°25.64'	275	61

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	20.09	1.90	4.75	0.60	35	28.26	19.60	0.72	1.02	0.47	0.40	0.58	0.13	0.28	0.98
4	19.42	1.58	4.75	0.67	37	28.39	19.87	0.64	0.50	0.46	0.43	0.56	0.07	0.17	1.56
10	13.84	5.06	13.29	0.62	100	28.89	21.47	0.84	1.05	2.31	1.55	0.43	0.21	0.35	2.65
20	9.98	2.22	4.11	0.46	45	29.39	22.57	0.75	1.42	0.77	1.06	1.42	1.80	0.65	7.60

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.46	0.12	7.28	-0.60	0.96	0.53	0.02	0.50	0.39

Weather: Overcast; calm**Comment:**

Survey 95-04

STATION 15

Location 1 MILE SE OF GRAHAM POINT, P.E.I.

Date	10-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:58 AM	15.00	6	0.3	21.5	18.9	28	2.37	5.38	0.56	46°04.98'	62°25.46'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.02	2.22	6.01	0.63	44	28.31	19.90			0.69	0.78	0.31	0.09	0.23	0.91

Weather: Hazy; sunny breaking thruComment:

Survey 95-04

STATION 16

Location 3 MILES EAST OF CAPE BEAR, P.E.I.

Date	10-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:33 AM	32.00	6.5	0.2	22.5	20.1	28.5	1.58	2.85	0.44	46°00.02'	62°22.95'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.20	1.58	3.96	0.60	41	28.45	19.98			0.53	0.48	0.49	0.08	0.16	0.69

Weather: Hazy; sun breaking thruComment:

Survey 95-04

STATION 17

Location 5 MILES SE OF CAPE BEAR, P.E.I.

Date	10-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:02 AM	37.00	7	0.2	22.7	20.1	28	1.11	1.58	0.30	45°56.48'	62°22.86'	1352	297

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.76	1.23	2.53	0.51	23	28.41	19.80	0.71	0.77	0.35	0.37	0.47	0.08	0.13	0.98
4	19.42	2.85	6.49	0.56	31	28.37	19.85	0.81	0.53	0.75	0.87	0.34	0.08	0.21	0.69
13	14.81	3.80	8.54	0.56	81	28.52	20.98	0.70	0.80	1.01	1.18	0.31	0.07	0.30	2.16
27	6.02	1.90	2.85	0.33	35	29.68	23.33	0.49	1.00	0.37	0.48	1.96	3.26	0.83	9.00

NOTE: P-l station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.75	0.23	7.60	0.82	0.99	0.10	0.02	0.20	0.20

Weather: Hazy; sun breaking thru**Comment:**

Survey 95-04

STATION 18

Location 4 MILES SSW OF WOOD ISLANDS, P.E.I.

Date	10-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:00 PM	23.00			29.4	22.7	28	1.27	1.58	0.20	45°54.26'	62°46.89'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.92	2.22	4.11	0.46	45	28.70	20.47			0.70	0.61	0.42	0.10	0.23	1.63

Weather: Hazy; sun breaking through; calmComment: Joe took off before could get SECCHI depth

Survey 95-04

STATION 19

Location 5.5 MILES SE OF PRIM POINT, P.E.I.

Date	10-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:15 PM	26.00	6	0.3	24.9	21.6	27	0.79	1.27	0.38	45°57.72'	63°00.28'	1650	363

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	18.95	1.42	3.16	0.55	27	28.66	20.22	0.86	0.85	0.57	0.46	0.48	0.06	0.20	1.30
4	18.12	2.37	5.38	0.56	40	28.56	20.29	0.79	0.79	0.73	0.64	0.26	0.07	0.21	1.12
10	13.13	5.70	15.03	0.62	101	28.98	21.68	1.17	3.49	2.41	1.74	0.17	0.11	0.42	3.95
20	11.86	2.22	4.43	0.50	36	29.15	22.07	1.32	5.15	0.75	0.84	1.53	0.60	0.64	6.94

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.73	0.14	7.48	0.16	0.99	0.22	0.01	0.30	0.24

Weather: Hazy; with sun breaking thru; calm**Comment:** Fairly strong current; 10m - pump out to 14m; 20m - pump out to 27m; ~5m difference in bottom from sounder to light meter due to current

Survey 95-04

STATION 20

Location 5 MILES WEST OF PRIM POINT, P.E.I.

Date	11-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:10 AM	20.00	7	0.2	23.9	20.1	29	1.27	3.01	0.58	46°02.46'	63°09.89'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.51	1.27	3.48	0.64	37	28.59	20.01			0.51	0.48	0.11	0.06	0.33	2.46

Weather: Clear; sunny; slight breezeComment:

Survey 95-04

STATION 21

Location 7.5 MILES SOUTH OF BLACK POINT, P.E.I.

Date	11-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:10 AM	23.00	7	0.2	24.2	20.1	28	0.95	2.06	0.54	46°02.54'	63°23.08'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	20.20	1.27	3.16	0.60	25	27.99	19.37			0.42	0.40	0.27	0.04	0.27	2.75

Weather: Clear; sunny; slight breezeComment:

Survey 95-04

STATION 22

Location 6 MILES SW OF BLACK POINT, P.E.I.

Date	11-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:50 AM	18.00	6	0.3	24.8	19.8	28.5	1.27	2.37	0.47	46°05.71'	63°30.41'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.49	2.06	5.06	0.59	32	27.84	19.79			0.74	0.82	0.45	0.05	0.34	2.97

Weather: Clear; sunny; slight breeze**Comment:**

Survey 95-04

STATION 23

Location 5 MILES SW OF TRYON HEAD, P.E.I.

Date	11-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	10:35 AM	20.00	5	0.3	21.4	18.8	28.5	2.22	3.80	0.42	46°08.75'	63°38.15'	2246	494	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.88	2.85	7.91	0.64	45	28.27	20.16	0.83	1.91	1.17	1.37	0.44	0.12	0.46	3.63
4	17.82	3.16	8.86	0.64	66	28.28	20.18	0.86	1.71	1.46	1.39	0.40	0.11	0.46	3.70
10	17.23	3.80	9.81	0.61	70	28.33	20.34	1.24	3.53	1.57	1.39	0.67	0.20	0.50	4.29
17	15.33	3.16	8.70	0.64	71	28.57	20.95	1.26	2.78	1.53	1.45	0.77	0.25	0.57	5.53

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.46	0.29	11.36	1.37	0.96	0.64	0.05	0.80	0.80

Weather: Sunny; clear; slight breeze**Comment:** Lots of "stuff" in the water

Survey 95-04

STATION 24

Location 3 MILES SW OF BORDEN POINT, P.E.I.

Date	11-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	12:46 PM	20.00	5	0.3	29	19.6	29	1.74	2.85	0.39	46°12.48'	63°45.41'	2104	463	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	18.52	2.69	6.01	0.55	27	28.14	19.89	0.83	1.38	1.15	0.88	0.58	0.05	0.45	1.89
4	18.16	2.69	7.91	0.66	46	28.16	20.00	0.85	1.51	1.29	1.05	0.45	0.05	0.46	2.18
10	18.10	3.00	6.96	0.57	67	28.17	20.03	0.71	0.83	1.21	1.14	0.89	0.06	0.44	2.15
17	18.09	3.01	7.59	0.60	64	28.17	20.03	0.95	1.05	1.21	1.26	0.50	0.07	0.47	2.38

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.29	0.22	9.38	0.32	0.99	0.30	0.02	0.37	0.35

Weather: Sunny; clear; slight haze; fair breeze**Comment:** Current extremely strong; difference of 17m between sounder depth and when light meter hit bottom; on this cruise forgot to rinse around SESTON edge until #2145, but was rinsing with 3 x 5ml d H2O

Survey 95-04

STATION 25

Location 5 MILES SW OF SEACOW HEAD, P.E.I.

Date	11-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:20 PM	21.00	3	0.5	21.3	19.8	30	2.53	3.80	0.33	46°15.13'	63°52.37'	1833	403

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	18.46	3.48	8.54	0.59	53	28.10	19.99	0.71	1.75	1.60	1.21	0.41	0.06	0.45	1.09
4	18.25	3.80	9.18	0.59	63	28.09	19.93	0.76	1.43	1.67	1.18	0.27	0.05	0.46	1.13
10	18.26	3.48	10.13	0.66	80	28.09	19.93	0.63	1.68	1.71	1.22	0.09	0.06	0.50	1.24
17	18.23	3.80	9.97	0.62	79	28.10	19.94	1.01	1.79	1.76	1.32	0.27	0.08	0.47	1.22

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.67	0.26	9.72	1.25	0.99	0.12	0.02	0.31	0.32

Weather: Clear; sunny; fairly windy; slightly hazy**Comment:** Current very strong here; difference of 11m between sounder and light meter

Survey 95-04

STATION 26

Location 5 MILES NORTH OF CAPE BRUIN, N.B

Date	12-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:40 AM	19.00	5	0.3	19.9	19.2	28.5	3.48	9.49	0.63	46°16.43'	63°56.89'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	18.90	3.64	8.54	0.57	80	27.99	19.70			1.57	1.25	0.53	0.20	0.43	0.47

Weather: Scattered cloud; sun; very rough and windy**Comment:** This station suppose to be a water station but too rough; so just going to do CTD

Survey 95-04

STATION 27

Location 7 MILES NORTH OF CADMAN POINT, N.B

Date	12-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:27 AM	17.00			21.8	19.7	27	4.75	9.49	0.50	46°17.29'	64°02.91'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.82	3.64	9.81	0.63	82	27.88	19.39			1.63	1.70	0.36	0.11	0.43	0.30

Weather: Broken cloud; very rough and windy**Comment:** Didn't get SECCHI depth; too rough to be playing with much over the side

Survey 95-04

STATION 28

Location 2.5 MILES NORTH OF CAP PELE, N.B.

Date	12-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	10:27 AM	14.00			22	20.5	28.5	4.43	10.44	0.58	46°16.22'	64°13.72'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	20.20	5.03	13.45	0.63	102	27.60	19.08			1.14	1.26	0.48	0.11	0.52	0.34

Weather: Broken cloud; very rough and windy**Comment:** Didn't get SECCHI depth; too rough to be playing with stuff over side

Survey 95-04

STATION 29

Location 3.5 MILES NORTH OF ROBICHAUD, N.B.

Date	12-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	11:10 AM	13.00	2	0.8	21.8	18.6	27.5	3.48	5.54	0.37	46°17.21'	64°21.62'		

Weather: Broken cloud with sunny breaks; rough; fair wind**Comment:** CTD cast and surface fluorescence only; poured this station into the last station in the bucket; since already steaming, don't have water sample from this station

Survey 95-04

STATION 30

Location 2 MILES EAST OF SHEDIAC ISLAND, N.B.

Date	12-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:23 PM	9.40	4	0.4	24	20.1	27.5	4.43	6.96	0.36	46°16.99'	64°29.05'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.62	5.38	12.66	0.57	108	27.51	19.16	1.03	1.17	1.55	1.47	0.41	0.11	0.56	0.34

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.55	0.16	7.31	0.03	0.99	0.24	0.02	0.27	0.24

Weather: Broken cloud with sunny breaks; fast wind; fairly rough**Comment:** Anchor wouldn't catch and because so much gear in water decided couldn't do water station.

Survey 95-04

STATION 31

Location 0.5 MILES OFF PORTAGE ISLAND, N.B.

Date	14-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:25 AM	13.00	3	0.5	18.4	19	28.5	4.43	9.49	0.53	47°08.70'	65°02.24'	252	55

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.23	5.06	11.71	0.57	52	26.13	18.20	0.87	1.59	1.78	2.34	0.24	0.09	0.52	3.73
4	18.99	3.80	10.76	0.65	92	26.73	18.71	1.00	1.89	1.68	2.34	0.31	0.10	0.49	3.77
10	18.87	3.16	8.54	0.63	66	27.19	19.10	1.15	1.25	1.40	2.04	0.56	0.09	0.46	3.46

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.68	0.31	15.46	0.59	0.99	0.20	0.02	0.45	0.39

Weather: Overcast; slight breeze

Comment:

 Survey 95-04

STATION 32

Location 4 MILES SOUTH OF BURNT CHURCH, N.B.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Date	14-Aug-95													
Time	11:45 AM	9.20										47°07.56'	65°07.84'	

Weather: Partial cloud with sunny breaks**Comment:** CTD cast only

Survey 95-04

STATION 33

Location 2 MILES EAST OF GRAND DUNE ISLAND, N.B.

Date	14-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:20 PM	7.50	2.5	0.6	21.8	22	25.5	4.11	7.28	0.43	47°07.93'	65°10.03'	1946	428

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	21.56	4.11	9.18	0.55	82	25.62	17.22	1.34	1.26	1.94	2.62	0.26	0.05	0.78	5.95
4	21.53	5.06	11.71	0.57	93	25.60	17.22	1.50	1.82	1.95	3.05	0.30	0.09	0.79	5.88
7	21.37	4.75	11.71	0.59	97	25.68	17.32	1.39	2.45	2.36	3.65	0.31	0.11	0.82	6.02

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
1	1.94	0.39	17.31	0.22	1.00	0.16	0.02	0.37	0.33
4	1.95	0.36	14.15	0.36	0.99	0.19	0.03	0.47	0.46
7	2.36	0.30	11.64	0.66	1.00	0.08	0.01	0.19	0.17

Weather: Overcast with patches of clear sky and sunny breaks**Comment:**

Survey 95-04**STATION 34****Location** 1.2 MILES SOUTH OF GRAND DUNE ISLAND, N.B.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Date	14-Aug-95													
Time	2:45 PM	9.00									47°06.96'	65°13.97'		

Weather: Scattered cloud; sunny; breeze**Comment:** CTD cast only

Survey 95-04

STATION 35

Location 0.5 MILES SOUTH OF OAK POINT, N.B.

Date	14-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:00 PM	8.80	2.5	0.6	29.4	24.2	23.5	4.75	8.54	0.44	47°06.48'	65°16.14'	1418	312

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	22.57	5.06	10.13	0.50	74	22.59	14.67	1.54	1.82	2.37	2.59	0.58	0.23	0.82	8.28
4	22.28	5.06	14.87	0.66	115	23.40	15.36	1.16	1.84	2.85	3.07	0.42	0.16	0.90	8.06
7	21.99	5.06	14.24	0.64	106	23.60	15.59	1.36	1.81	2.44	2.65	0.69	0.24	0.90	7.76

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.85	0.31	16.31	1.03	1.00	0.15	0.02	0.33	0.28

Weather: Sunny; scattered cloud; fair breezeComment:

Survey 95-04

STATION 36

Location 0.5 MILES EAST OF MALCOLM POINT, N.B.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Date	14-Aug-95													
Time	4:47 PM	7.60									47°04.96'	65°21.46'		

Weather: Sunny; scatted cloud; fair breeze**Comment:** CTD cast only**Survey 95-04**

STATION 37

Location 0.25 MILES WEST OF MIDDLE ISLAND, N.B.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Date	14-Aug-95													
Time	5:18 PM	11.20									47°03.22'	65°27.58'		

Weather: Sunny; scatted cloud; fair breeze**Comment:** CTD cast only

 Survey 95-04

STATION 38

Location 3 MILES NORTH OF ESCUMINAC, N.B.

		Total Depth (m)	SECCHI Depth (m)	$-k_l$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Date	15-Aug-95														
Time	9:28 AM	15.00									47°08.13'	64°51.90'			

Weather: Sunny; scattered cloud; stiff breeze; surf**Comment:** CTD cast only

Survey 95-04

STATION 39

Location 7 MILES NORTH OF POINT ESCUMINAC, N.B.

Date	15-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:53 AM	23.00	9	0.2	18.8	19.7	27	1.33	3.01	0.56	47°10.80'	64°47.68'	1028	226

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	19.79	1.58	4.43	0.64		27.08	18.79	0.47	0.35	0.49	0.64	0.38	0.05	0.14	1.84
4	19.79	1.90	4.75	0.60	31	27.30	18.96	0.53	0.17	0.45	0.64	0.10	0.16	0.11	1.97
17	14.84	2.85	6.96	0.59	79	26.61	19.31	0.67	0.29	0.79	1.20	0.30	0.26	0.18	2.50
22	8.91	3.32	5.38	0.38	59	28.76	22.25	0.72	0.50	1.37	1.77	1.02	0.94	0.57	4.09

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
1	0.49	0.15	8.50	-0.14	0.99	0.14	0.01	0.30	0.24
22	1.37	0.03	3.17	-0.21	0.90	1.11	0.01	0.55	0.17

Weather: Partial cloud; sun; strong breeze; relatively rough

Comment: Got 1st 2 depths processed; then had to stop while steaming because too rough; will try others when get in lee of land; 17m (#2173) processed @15:30; 22m (#2175) @15:45

Survey 95-04

STATION 40

Location 4.5 MILES EAST OF ESCUMINAC, N.B.

Date	15-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	12:00 PM	19.00						1.90	3.16	0.40	47°02.88'	64°41.51'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.58	2.22	5.38	0.59	44	27.20	18.93			0.64	0.96	0.34	0.11	0.16	2.27

Weather: Light cloud cover; sun; extremely windy and rough**Comment:** Got water sample but won't process until in lee of land; difficult to stand let alone filter; processed @16:12

Survey 95-04

STATION 41

Location 11 MILES EAST OF LITTLE GULLY

Date	15-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:18 PM	17.00									46°53.52'	64°40.94'		

Weather: Mostly cloudy; sunny breaks; very strong wind and swell**Comment:** CTD cast only; too rough to do anything else; wind blowing up the Strait directly at us

Survey 95-04

STATION 42

Location 8 MILES NE OF RICHIBOUCTO CAPE, N.B.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Date	15-Aug-95														
Time	2:15 PM	21.00									46°47.01'	64°36.37'			

Weather: Overcast; brisk breeze; fair swellComment: CTD cast only

Survey 95-04

STATION 43

Location 6.5 MILES WEST OF WEST SPIT, P.E.I.

		Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Date	15-Aug-95														
Time	3:23 PM	16.00									46°37.86'	64°34.12'			

Weather: Overcast; fair breeze and swellComment: CTD cast only

Survey 95-04

STATION 44

Location 6 MILES EAST OF SAINT-THOMAS-DE-KENT, N.B.

Date	15-Aug-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	4:53 PM	12.00	4	0.4	20.9	19.9	27.5	3.48	9.18	0.62	46°26.85'	64°28.85'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	19.52	4.11	9.18	0.55	80	27.62	19.27			1.60	2.32	0.32	0.10	0.47	2.49

Weather: Overcast; fair breezeComment:

Appendix 4.6 Physical and biological data collected during Survey 95-05
07-Sep-95 to 14-Sep-95

Survey 95-05

STATION 01

Location 9.5 MILES NE OF POINT ESCUMINAC, N.B.

Date	07-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:22 AM	26.00	7	0.2	14.7	15.7	29	1.90			47°12.64'	64°42.57'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.50	1.74	4.43	0.61	12	28.35	20.74	0.51	0.43	0.36	0.46	0.24	0.07	0.14	0.17
4	15.50	1.42	3.32	0.57	31	28.33	20.74	0.68	-0.53	0.36	0.51	0.09	0.08	0.13	0.22
15	15.48	1.11	1.42	0.22	37	28.34	20.74	0.48	0.25	0.34	0.54	0.31	0.10	0.23	0.20
20	14.79	1.27	1.27	0.00	52	28.54	21.04	0.55	0.11	0.44	0.55	0.30	0.09	0.20	0.20

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.36	0.33	9.65	1.20	0.94	0.86	0.08	0.99	1.02

Weather: Very rough; wind; cloud cover with sunny breaks

Comment: Too rough to do light profile or 500µm net tow; began processing samples @15:13

Survey 95-05

STATION 02

Location 6 MILES NORTH OF POINT ESCUMINAC, N.B.

Date	07-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:40 AM	20.00									47°10.00'	64°50.30'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.87	1.42	3.80	0.63	30	28.38	20.69			0.39	0.47	0.11	0.07	0.12	0.21

Weather: Very rough; windy; overcastComment: Surface sample not taken because so rough and everyone feeling sick; water sample processed @~5:30 p.m.

Survey 95-05

STATION 03

Location 7 MILES EAST OF POINT ESCUMINAC, N.B.

Date	08-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	10:19 AM	22.00	4	0.4	11.3	15.5	30	0.32	0.63	0.50	47°02.33'	64°39.41'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.47	5.06	10.76	0.53	78	27.94	20.44			1.37	1.79	0.31	0.08	0.27	0.30

Weather: Sunny; fairly windy; fair swellComment:

Survey 95-05

STATION 04

Location 12 MILES EAST OF KOUCHIBOUGUAC, N.B.

Date	08-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:25 AM	26.00	5	0.3	14.5	15.9	30	3.96	5.70	0.31	46°53.68'	64°36.60'	221	49	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	15.98	4.43	9.81	0.55	47	27.77	20.17	0.77	0.89	1.96	1.52	0.25	0.09	0.24	0.44
4	15.98	4.11	9.81	0.58	73	27.97	20.35	0.73	0.60	1.79	1.41	0.29	0.13	0.19	0.72
12	15.95	4.75	9.18	0.48	80	27.97	20.36	0.83	0.52	1.91	1.26	0.40	0.09	0.25	0.45
20	15.94	4.11	8.07	0.49	78	27.98	20.37	0.72	0.95	2.25	1.27	0.38	0.17	0.23	0.77

Weather: Sunny; fair breeze; moderate wave action**Comment:** Water irradiance probe in the shadow of the boat

Survey 95-05

STATION 05

Location 6 MILES EAST OF RICHIBOUCTO DUNE, N.B.

Date	08-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_d$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:02 PM	21.00	5	0.3	13.5	16.7	30	3.01	3.80	0.21	46°45.68'	64°34.51'	237	52

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.03	4.43	8.54	0.48	37	27.94	20.32	0.81	1.02	1.99	1.40	0.43	0.07	0.23	0.82
4	15.78	4.91	10.76	0.54	66	27.96	20.39	0.82	1.62	2.33	1.74	0.37	0.11	0.26	1.23
12	15.61	5.22	12.50	0.58	92	28.00	20.46	0.87	1.35	2.71	2.04	0.51	0.25	0.29	1.66
17	15.53	4.91	11.71	0.58	91	28.02	20.48	0.87	1.80	2.66	1.89	0.52	0.30	0.29	1.77

Weather: Sunny; fair breeze; moderate sea**Comment:** Current strong; water irradiance probe in the shadow of the boat

Survey 95-05

STATION 06

Location 6 MILES WEST OF WEST POINT, P.E.I.

Date	08-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_d$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	4:30 PM	22.00	4	0.4	16.4	17.2	29	4.75	7.59	0.38	46°36.70'	64°31.72'	1446	318

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.56	4.43	10.13	0.56	45	27.82	20.11	0.68	1.52	2.28	1.64	0.43	0.09	0.31	0.91
4	16.48	4.75	12.34	0.62	85	27.83	20.13	0.69	1.06	2.45	1.87	0.40	0.07	0.30	0.97
12	16.42	4.75	10.13	0.53	94	27.84	20.15	0.88	1.30	2.38	1.79	0.38	0.08	0.29	0.88
17	16.41	4.75	9.81	0.52	86	27.84	20.16	0.86	1.48	2.92	1.88	0.21	0.12	0.39	1.05

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.45	0.14	5.18	0.06	0.98	0.15	0.02	0.25	0.23

Weather: Sunny; slight breeze; mild sea

Comment: Slack water; #2200 marked 'X' CHLA no buffer

Survey 95-05

STATION 07

Location 6 MILES EAST OF SAINT-EDOUARD-DE-KENT, N.B.

Date	08-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	6:30 PM	12.00	3.5	0.4	16.8	16.5	30	11.23	23.42	0.52	46°26.77'	64°28.78'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.93	4.43	9.02	0.51	67	27.73	19.96			1.44	1.48	0.18	0.06	0.41	0.59

Weather: Sunny; breeze; calmComment:

Survey 95-05

STATION 08

Location 1 MILE NORTH OF PARLEE BEACH, N.B.

Date	09-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	7:29 AM	6.00	2	0.8	11.5	15.5	30	4.91	13.61	0.64	46°15.43'	64°30.83'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.45	5.38	14.56	0.63	101	27.69	20.03			2.00	1.98	0.31	0.07	0.46	1.31

Weather: Overcast; slight breeze; relatively calmComment:

Survey 95-05

STATION 09

Location 2 MILES EAST OF GRANDE-DIGUE POINT, N.B.

Date	09-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	7:52 AM	8.00	3	0.5	12.8	15.9	29	2.22	5.70	0.61	46°16.91'	64°29.65'	228	50

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.64	2.69	7.28	0.63	54	27.73	20.02	0.83	1.87	1.26	0.98	0.29	0.06	0.40	0.48
4	16.65	2.22	6.65	0.67	55	27.73	20.02	0.92	1.25	1.26	0.96	0.29	0.10	0.41	0.58
6	16.65	2.37	6.65	0.64	57	27.73	20.02	0.97	0.81	1.29	0.96	0.25	0.05	0.44	0.47

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.26	0.18	6.20	0.00	0.97	0.51	0.03	0.36	0.35

Weather: Broken cloud; slight breeze; relatively calm**Comment:** Slack water

Survey 95-05

STATION 10

Location 4 MILES NORTH OF ROBICHAUD, N.B.

Date	09-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:33 AM	13.00	4	0.4	15.2	16.2	29	2.53	5.38	0.53	46°17.19'	64°21.38'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.47	2.85	7.28	0.61	58	27.82	20.13			1.13	1.13	0.25	0.06	0.34	1.59

Weather: Broken cloud; slight breeze; slight sea**Comment:**

Survey 95-05

STATION 11

Location 2.5 MILES EAST OF CAP PELE, N.B.

Date	09-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:14 AM	14.00	3	0.5	19.5	16.9	28	2.85	5.70	0.50	46°16.20'	64°13.78'	523	115

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.80	3.80	9.49	0.60	46	27.75	20.00	0.87	2.42	1.35	0.94	0.38	0.05	0.42	0.31
4	16.80	3.64	9.81	0.63	84	27.75	20.01	1.14	2.51	1.44	0.98	0.26	0.05	0.39	0.30
8	16.79	3.32	8.86	0.63	79	27.75	20.01	1.26	2.61	1.70	0.96	0.27	0.11	0.41	0.33
11.5	16.79	3.48	9.18	0.62	84	27.75	20.01	1.11	2.71	1.70	0.97	0.14	0.11	0.41	0.43

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.44	0.17	6.21	0.59	0.97	0.23	0.03	0.40	0.40

Weather: Broken cloud; fair breeze; moderate sea**Comment:** Water irradiance probe away from the sun

Survey 95-05

STATION 12

Location 6 MILES NORTH OF SHEMOQUE HARBOUR, N.B.

Date	09-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:28 PM	18.00	2.5	0.6	17.3	17.1	29	5.38	12.66	0.57	46°17.19'	64°03.28'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	17.08	6.33	15.82	0.60	151	27.80	19.98			1.40	1.41	0.29	0.06	0.45	0.48

Weather: Overcast; fair breeze; moderate swell**Comment:**

Survey 95-05

STATION 13

Location 5.5 MILES NORTH OF CAPE BRUIN, N.B.

Date	09-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:10 PM	18.00	4	0.4	16.6	16.9	29	3.01	6.65	0.55	46°16.47'	63°57.44'	207	46

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.22	3.32	8.39	0.60	48	27.95	20.06	0.93	1.77	1.06	0.82	0.10	0.07	0.43	0.24
4	17.23	2.85	7.91	0.64	68	27.81	19.95	0.72	1.49	1.06	0.80	0.16	0.11	0.38	0.27
12	17.22	2.85	7.59	0.63	66	27.81	19.95	0.58	1.87	1.23	0.86	0.13	0.11	0.42	0.36
17	17.22	3.01	8.23	0.63	65	27.81	19.96	0.86	2.53	1.21	0.87	0.16	0.11	0.41	0.35

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.06	0.15	6.30	0.31	0.98	0.36	0.02	0.36	0.33

Weather: Overcast; fair breeze; moderate sea**Comment:** Strong current

Survey 95-05

STATION 14

Location 5.5 MILES NORTH OF PEACOCK POINT, N.B.

Date	10-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:11 AM	23.00	2.5	0.6	14.7	16.8	30	6.80	17.72	0.62	46°15.20'	63°52.44'	89	20

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.32	6.65	19.94	0.67	152	27.83	19.95	0.95	2.96	2.09	1.34	0.20	0.10	0.48	0.39
4	17.32	7.91	19.46	0.59	151	27.83	19.95	0.97	3.16	2.22	1.44	0.17	0.04	0.48	0.45
12	17.32	7.28	18.04	0.60	146	27.84	19.95	1.05	2.83	2.34	1.49	0.16	0.04	0.48	0.42
17	17.32	7.28	18.67	0.61	161	27.83	19.95	1.08	3.83	2.26	1.52	0.12	0.04	0.49	0.42

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.22	0.09	3.18	0.15	0.95	0.21	0.02	0.27	0.28

Weather: Overcast; breeze; light sea

Comment:

Survey 95-05

STATION 15

Location 3.5 MILES EAST OF GUNNING POINT, N.B.

Date	10-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:53 AM	20.00	2.5	0.6	15.4	16.9	29	8.86	20.57	0.57	46°12.20'	63°45.19'	141	31	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	17.14	8.86	24.05	0.63	189	28.12	20.21	1.25	4.11	2.45	1.38	0.20	0.03	0.54	0.48
4	17.15	9.18	23.26	0.61	188	27.89	20.04	1.38	3.84	2.23	1.49	0.13	0.04	0.54	0.43
12	17.15	8.54	21.84	0.61	181	27.89	20.04	1.14	4.39	2.22	1.46		0.02	0.54	0.47
17	17.15	8.54	21.52	0.60	191	27.89	20.04	1.29	3.93	2.37	1.49		0.05	0.53	0.58

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.23	0.11	4.60	8.96	0.97	0.53	0.02	0.24	0.24

Weather: Overcast; breeze; light sea

Comment: Depth 12 and 17 m ammonia samples lost

Survey 95-05

STATION 16

Location 3.5 MILES SOUTH OF BELLS POINT, P.E.I.

Date	10-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:13 PM	25.00	2	0.8	15.1	16.8	29	10.13	27.85	0.64	46°08.85'	63°38.41'	253	56

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.89	11.87	28.48	0.58	258	28.14	20.28	0.99	2.43	2.48	1.93		0.03	0.54	0.44
4	16.89	11.39	29.75	0.62	242	28.13	20.28	1.04	1.86	2.57	2.17		0.03	0.52	0.44
12	16.85	10.92	30.06	0.64	249	28.18	20.32	1.15	2.76	3.24	2.11		0.04	0.56	0.46
17	16.77	10.13	25.95	0.61	242	28.23	20.37	1.03	2.36	2.88	2.23		0.05	0.58	0.48

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.57	0.13	4.95	0.20	0.96	0.40	0.03	0.37	0.36

Weather: Overcast; fair breeze; light sea**Comment:** Ammonia samples lost

Survey 95-05

STATION .17

Location 6 MILES SW OF BLACK POINT, P.E.I.

Date	10-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:45 PM	18.00	2	0.8	16.1	16.3	28	9.81	25.00	0.61	46°05.58'	63°30.53'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.64	9.49	27.53	0.66	213	28.28	20.44			2.91	1.68	0.11	0.09	0.58	0.30

Weather: Overcast; breeze; slight seaComment:

Survey 95-05

STATION .18

Location 7 MILES SOUTH OF BLACK POINT, P.E.I.

Date	10-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:19 PM	22.00	4.5	0.3	15.5	17	29	4.91	10.13	0.52	46°02.68'	63°23.55'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.81	4.11	10.60	0.61	84	28.34	20.46			1.04	0.74		0.02	0.44	0.39

Weather: Overcast; breeze; light seaComment: Ammonia sample lost

Survey 95-05

STATION 19

Location 5 MILES WEST OF PRIM POINT, P.E.I.

Date	10-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	3:21 PM	19.00	2.75	0.6	14.2	16	30	9.49	23.73	0.60	46°02.47'	63°09.84'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$N0_2 + N0_3$ (µM)	$P0_4$ (µM)	$Si0_4$ (µM)
4	16.42	9.49	26.58	0.64	215	28.59	20.73			3.07	1.77		0.02	0.64	0.36

Weather: Overcast; breeze; light sea**Comment:** Ammonia sample lost

Survey 95-05

STATION 20

Location 5 MILES SW JENYN'S POINT, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	7:52 AM	22.00									45°58.04'	62°59.95'		

Weather: Sunny; fair breeze; moderate sea**Comment:** CTD cast only

Survey 95-05

STATION 21

Location 3 MILES SSW OF WOODS ISLAND, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:51 AM	23.00	2.75	0.6	12.8	15.2		2.53	8.54	0.70	45°54.46'	62°46.88'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.69	3.16	10.13	0.69	65	28.74	21.00			1.86	1.87		0.31	0.60	1.82

Weather: Sunny; fairly windy; moderate seaComment: Forgot cell counts sample, oops!!! Forgot salinity readings too! Ammonia sample lost

Survey 95-05

STATION 22

Location 3.5 MILES EAST OF CAPE BEAR, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:54 AM	32.00	5	0.3	15.3	16	29	4.43	10.76	0.59	46°00.03'	62°23.08'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.74	3.16	8.70	0.64	67	28.65	20.93			1.56	1.42		0.03	0.35	1.03

Weather: Sunny; windy; moderate seaComment: Filtered ~12:00; Ammonia sample lost

Survey 95-05

STATION 23

Location 1.5 MILES EAST OF GRAHAM POINT, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:35 AM	21.00	5	0.3	17.7	16.1	29	2.69	5.38	0.50	46°05.36'	62°24.22'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.98	3.16	10.44	0.70	74	28.49	20.75			1.45	1.55	0.13	0.09	0.34	2.33

Weather: Sunny; fair breeze; moderate sea**Comment:** Filtered ~12:30

Survey 95-05

STATION 24

Location 2 MILES EAST OF SMITH POINT, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:21 PM	16.00	5.75	0.3	25.6	16.2	30	2.85	5.70	0.50	46°08.06'	62°25.30'	1431	315

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.16	3.48	9.49	0.63	75	28.47	20.70	0.79	1.66	1.58	1.50	0.08	0.16	0.33	2.43
4	16.13	4.43	11.08	0.60	79	28.48	20.71	0.82	1.71	1.63	1.67	0.13	0.14	0.34	2.28
7	16.07	3.48	6.33	0.45	81	28.46	20.71	0.64	1.46	1.37	1.61	0.24	0.14	0.32	2.38
14	15.96	3.16	6.01	0.47	69	28.48	20.75	0.65	1.71	1.36	1.48	0.31	0.23	0.34	2.48

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.63	0.21	10.06	0.82	0.91	1.54	0.06	1.08	0.99

Weather: Sunny; fair breeze; moderate seas**Comment:** Strong wind blew up before station finished

Survey 95-05

STATION 25

Location 1.0 MILE SW OF RED POINT, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:20 PM	14.00	4	0.4	24.5	16.4	30	3.16	6.65	0.52	46°11.64'	62°29.38'	1295	285

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.29	3.32	10.44	0.68	57	28.40	20.62	0.83	1.65	1.35	1.98	0.31	0.07	0.37	2.64
4	16.27	3.64	10.76	0.66	84	28.40	20.62	0.63	1.16	1.28	1.82	0.29	0.09	0.36	2.59
7	16.26	3.32	9.49	0.65	84	28.40	20.62	0.88	1.49	1.26	1.84	0.29	0.08	0.38	2.72
11	16.22	3.48	8.23	0.58	85	28.40	20.63	0.81	1.04	1.27	1.87	0.29	0.08	0.37	2.66

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.28	0.31	9.29	0.58	0.99	0.76	0.03	0.36	0.34

Weather: Sunny; strong wind; light moderate sea**Comment:** 5 m. and after water irradiance measured in the shadow of the boat

Survey 95-05

STATION 26

Location 1.7 MILES EAST OF CARDIGAN POINT, P.E.I.

Date	12-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	4:36 PM	11.40	6	0.3	18.2	16.3	29	2.85	5.70	0.50	46°10.10'	62°27.49'	1157	255

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.24	3.48	9.81	0.65	63	28.38	20.62	0.64	1.45	1.18	1.77	0.24	0.13	0.34	2.29
4	16.24	3.16	10.13	0.69	83	28.42	20.64	0.57	0.86	1.68	1.81	0.29	0.11	0.37	2.34
7	16.23	3.16	9.65	0.67	83	28.42	20.65	0.78	1.08	1.69	1.82	0.19	0.09	0.37	2.32
11	16.22	3.16	8.54	0.63	78	28.42	20.65	0.63	1.39	1.37	1.90	0.31	0.11	0.37	2.37

NOTE: P-1 station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.68	0.04	2.63	-0.99	0.76	1.50	0.02	0.50	0.37

Weather: Sunny; strong wind; light moderate sea**Comment:** Water irradiance probe partially in shadow of boat

Survey 95-05

STATION 27

Location 5 MILES EAST OF GRAHAM POINT, P.E.I.

Date	13-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:13 AM	20.00	4.5	0.3	14.7	15.2	30	2.53	7.44	0.66	46°07.23'	62°22.24'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	15.63	2.85	9.18	0.69	62	28.62	20.92			1.67	1.48	0.37	0.27	0.41	2.60

Weather: Sunny; fairly strong wind; moderate sea**Comment:** Filtered 10:42

Survey 95-05

STATION 28

Location 5 MILES EAST DES BARRES POINTE, P.E.I.

Date	13-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:46 AM	33.00	4.5	0.3	14.8	15.8	30	2.69	6.96	0.61	46°04.83'	62°17.92'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.03	2.22	6.65	0.67	57	28.65	20.86			1.32	1.25	0.57	0.16	0.46	1.70

Weather: Sunny; strong wind; moderate sea**Comment:** Filtered 11:00

Survey 95-05

STATION 29

Location FISHERMAN'S BANK

Date	14-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:51 AM	15.00	6	0.3	18.7	16.3	29	2.53	7.28	0.65	46°01.32'	62°15.38'	233	51

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.22	2.85	8.07	0.65	29	28.76	20.91	0.73	0.97	1.11	1.21	0.37	0.16	0.33	1.75
4	16.20	3.01	8.23	0.63	53	28.64	20.82	0.59	0.35	1.26	1.07	0.43	0.22	0.51	1.90
7	16.21	2.53	6.65	0.62	56	28.63	20.81	0.63	1.85	1.20	1.14	0.31	0.19	0.38	1.75
12	16.20	2.85	6.01	0.53	53	28.63	20.81	0.66	0.59	1.08	1.03	0.29	0.23	0.59	2.38

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.26	0.18	7.01	0.86	0.79	3.16	0.08	1.26	1.23

Weather: Overcast; fairly windy; moderate sea

Comment:

Survey 95-05

STATION 30

Location 14 MILES EAST OF CAPE BEAR, P.E.I.

Date	14-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	10:20 AM	43.00	6	0.3	20.2	16.7	30	2.22	5.06	0.56	45°59.61'	62°05.89'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.63	2.22	6.33	0.65	44	28.51	20.62			0.83	0.81	0.55	0.06	0.22	0.93

Weather: Overcast; fairly windy; moderate sea**Comment:** Filtered ~12:20

Survey 95-05

STATION 31

Location 2.5 MILES NORTH OF CAPE GEORGE, N.S.

Date	14-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:00 PM	41.00									45°55.44'	61°53.51'		

Weather: Overcast; fairly windy; moderate-light sea**Comment:** CTD cast and net tow only

Survey 95-05

STATION 32

Location 9 MILES WEST OF JUDIQUE, N.S.

Date	14-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	1:20 PM	38.00	7	0.2	19.4	17.2	29	2.22	5.06	0.56	45°51.46'	61°42.65'	163	36	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	16.73	2.22	5.70	0.61	53	28.38	20.50	0.68	1.25	0.65	0.70	0.14	0.11	0.15	0.33
4	16.69	2.22	5.70	0.61	48	28.37	20.51	0.63	0.79	0.61	0.71	0.10	0.11	0.30	0.34
20	16.37	2.22	5.06	0.56	30	28.50	20.68	0.40	1.06	0.70	0.76	0.18	0.16	0.31	1.12
25	15.85	2.53	5.38	0.53	57	28.42	20.73	0.62	0.94	0.89	0.83	0.18	0.14	0.27	0.62

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.61	0.12	3.22	0.48	0.72	1.98	0.08	0.79	0.79

Weather: Overcast; brisk wind; moderate sea**Comment:** Started filtering 17:10; ignore water light meter readings after 9m (mistakenly turned off light meter and then when turned back on) water readings were weird

Survey 95-05

STATION 33

Location 4 MILES NW OF CAPE JACK, N.S.

Date	14-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:59 PM	29.00	5	0.3	20.3	17	30	3.32	9.18	0.64	45°45.17'	61°36.55'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	16.89	3.16	9.49	0.67	72	28.60	20.63			1.28	1.22	0.36	0.23	0.43	2.18

Weather: Overcast; brisk wind; moderate seas**Comment:** Started filtering 18:00

Survey 95-05

STATION 34

Location 2 MILES NORTH HAVRE BOUCHER, N.S.

Date	14-Sep-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:30 PM	20.00									45°43.43'	61°32.36'		

Weather: Overcast; brisk wind; moderate sea**Comment:** CTD cast only

Appendix 4.7 Physical and biological data collected during Survey 95-06
11-Oct-95 to 19-Oct-95

Survey 95-06

STATION 01

Location 18 MILES NE OF POINT ESCUMINAC, N.B.

Date	11-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:23 AM	26.00	5.5	0.3	13.1	12.1	30	4.43	8.54	0.48	47°18.18'	64°30.21'	549	121

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	11.88	5.06	4.75	-0.07	79	28.93	21.90	0.45	0.05	2.26	0.70	0.34	0.09	0.30	0.30
4	11.89	5.06	14.24	0.64	82	28.94	21.91	0.54	0.04	2.37	0.80	0.14	0.09	0.30	0.33
12	11.83	4.75	12.03	0.61	124	28.97	21.94	0.29	0.32	2.35	0.76	0.18	0.10	0.32	0.51
27	10.35	0.63	0.95	0.33	15	29.53	22.63	0.23	-0.07	0.18	0.31	1.30	0.59	0.53	2.71

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R	
4	2.37	0.05	1.07	-0.03	0.96	0.04	0.02	0.11	0.11	Suspect parameter values

Weather: Overcast; breezy; cool

Comment:

Survey 95-06

STATION 02

Location 6 MILES NORTH OF ESCUMINAC, N.B.

Date	11-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	1:49 PM	23.00	4	0.4	13.7	12.5	28.5	6.96	10.13	0.31	47°06.94'	64°54.77'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	11.92	8.54	21.84	0.61	152	28.60	21.64			4.17	1.29	0.26	0.11	0.36	0.73

Weather: Overcast; light wind**Comment:**

Survey 95-06

STATION 03

Location 4.5 MILES NE OF POINT SAPIN, N.B.

Date	12-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	10:10 AM	15.00	4	0.4	10.4	12.3	29	9.18	26.27	0.65	47°00.18'	64°43.05'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	12.09	9.81	29.11	0.66	208	28.59	21.60			6.48	2.58	0.16	0.11	0.40	0.64

Weather: Rain; wind SW 15-20 knots**Comment:** Pouring buckets out; cold; windy; generally an all round miserable day

Survey 95-06

STATION 04

Location 9.5 MILES EAST OF LITTLE GULLY

Date	12-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	11:08 AM	25.00	4.5	0.3	12.5	12.7	29	8.23	22.47	0.63	46°52.01'	64°40.24'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg / m ³)	POM (mg / L)	PIM (mg / L)	C_a (µg / L)	P_a (µg / L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	12.20	8.23	23.42	0.65	169	28.70	21.66			5.76	2.24	0.08	0.11	0.32	0.57

Weather: Windy; cloud cover low; wet and cold; rain; SW-20 fresheningComment: Changed planned water station to CTD due to high seas

Survey 95-06

STATION 05

Location 6.5 MILES NE OF RICHIBOUCTO CAPE, N.B.

Date	12-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:14 PM	23.00	3	0.5	12.5	12.6	29	9.81	26.90	0.64	46°43.69'	64°35.41'	755	166

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	12.56	9.81	29.43	0.67	138	28.37	21.35	0.63	1.87	6.58	3.14	0.13	0.06	0.41	0.54
4	12.56	10.13	28.16	0.64	186	28.39	21.36	0.79	1.52	7.16	2.51	0.05	0.03	0.37	0.36
12	12.52	9.49	29.11	0.67	209	28.42	21.39	1.01	1.72	7.39	3.32	0.01	0.06	0.41	0.53
20	12.52	9.81	30.70	0.68	212	28.42	21.39	1.45	2.71	7.49	3.93	0.02	0.09	0.41	0.75

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R	
4	7.16	0.03	0.75	0.00	0.99	0.02	0.00	0.04	0.39	Suspect parameter values

Weather: Cloudy; cool; wet; breezy**Comment:**

Survey 95-06

STATION 06

Location 6 MILES WEST OF WEST POINT, P.E.I.

Date	12-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	2:10 PM	23.00	3	0.5	14.1	13.5	29	6.33	11.71	0.46	46°35.85'	64°31.07'	1765	388

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	13.35	8.54	19.94	0.57	89	28.07	20.97	0.94	0.99	5.59	3.49	-0.01	0.04	0.42	0.38
4	13.33	8.54	19.94	0.57	100	28.07	20.97	0.55	1.21	5.28	3.21	0.09	0.03	0.39	0.36
12	13.26	8.54	23.10	0.63	177	28.08	20.99	0.74	1.45	5.90	3.06	0.08	0.14	0.40	1.18
19	13.22	9.18	22.78	0.60	183	28.10	21.01	0.69	1.05	5.65	3.37	0.11	0.06	0.41	0.27

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R	
4	5.28	0.03	0.70	-0.16	0.92	0.08	0.01	0.08	0.08	Suspect parameter values

Weather: Cloudy; sunny breaks; windy; cool**Comment:**

Survey 95-06

STATION 07

Location 7 MILES EAST OF SAINT-THOMAS-DE-KENT, N.B.

Date	12-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	4:15 PM	12.00	3.5	0.4	15.3	14.2	27.5	3.48	8.23	0.58	46°26.46'	64°27.24'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	13.61	3.16	8.54	0.63	72	27.82	20.72			2.51	2.17	0.20	0.14	0.52	0.72

Weather: Sunny; cool; windComment:

Survey 95-06

STATION 08

Location INSIDE SHEDIAC BAY, N.B.

Date	13-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	7:48 AM	8.00	2	0.8	11.7	13	28.5	8.23	24.05	0.66	46°15.44'	64°30.76'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	12.68	8.54	24.37	0.65	165	27.39	20.57			5.34	4.37	0.25	0.09	0.33	0.48

Weather: Sunny; cool; calmComment:

Survey 95-06

STATION 09

Location 2 MILES EAST OF GRANDE-DIGUE POINT, N.B.

Date	13-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:15 AM	8.00	3	0.5	12.9	13.2	28	6.65	17.09	0.61	46°17.01'	64°29.06'	379	83

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	13.36	6.96	18.35	0.62	121	27.76	20.72	0.87	1.77	3.12	1.71	0.34	0.10	0.50	0.26
4	13.37	6.96	18.99	0.63	145	27.76	20.72	0.86	1.48	3.75	2.19	0.11	0.11	0.56	0.57
7	13.37	6.96	19.94	0.65	146	27.76	20.72	1.12	0.95	4.84	2.84	0.06	0.02	0.51	0.31

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	3.75	0.10	2.16	0.33	0.93	0.16	0.03	0.28	0.30

Weather: Sunny; light winds**Comment:** Samples were only taken at 3 depths due to lack of water

Survey 95-06

STATION 10

Location 4 MILES NORTH OF ROBICHAUD, N.B.

Date	13-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:05 AM	12.00	3	0.5	13.4	14	27.5	4.75	10.76	0.56	46°17.15'	64°21.52'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	13.52	5.70	14.87	0.62	124	27.70	20.65			3.46	1.97	0.08	0.05	0.46	0.21

Weather: Sunny; light breeze; warming up a bit**Comment:** Beautiful Day !

Survey 95-06

STATION 11

Location 2.5 MILES NE OF CAP PELE, N.B.

Date	13-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:42 AM	14.00	6	0.3	18.1	14.1	28	2.53	6.33	0.60	46°16.18'	64°13.17'	1353	298

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	13.97	2.53	6.96	0.64	50	27.84	20.67	0.72	1.51	1.26	1.01	0.32	0.05	0.50	0.52
4	13.96	2.53	6.96	0.64	61	27.84	20.67	0.65	1.39	1.21	1.03	0.22	0.07	0.46	0.44
8	13.96	2.53	6.65	0.62	58	27.84	20.67	0.71	1.23	1.26	1.05	0.16	0.06	0.48	1.57
12	13.96	2.85	6.96	0.59	58	27.84	20.67	0.66	1.46	1.35	1.01	0.21	0.07	0.47	0.41

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.21	0.10	4.04	-0.06	0.94	0.48	0.02	0.33	0.28

Weather: Sunny; warm; light breeze**Comment:**

Survey 95-06

STATION 12

Location 6 MILES NORTH OF SHEMOQUE, N.B.

Date	13-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_l$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:56 PM	18.00	4.5	0.3	13.9	14.7	28	3.16	6.65	0.52	46°17.22'	64°03.14'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	14.26	3.16	7.91	0.60	66	28.02	20.75			1.38	1.15	0.26	0.11	0.51	2.58

Weather: Overcast; warm; light breeze**Comment:**

Survey 95-06

STATION 13

Location 5.5 MILES NORTH OF CAPE BRUIN, N.B.

Date	13-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:27 PM	20.00	6	0.3	14.9	14.4	28	2.22	5.38	0.59	46°16.50'	63°57.13'	459	101

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	14.30	2.53	6.65	0.62	48	28.11	20.81	0.63	1.50	1.16	1.20	0.28	0.15	0.52	0.54
4	14.30	2.22	5.70	0.61	59	28.12	20.81	0.48	1.24	1.23	1.27	0.41	0.15	0.55	0.67
12	14.30	2.22	6.33	0.65	57	28.11	20.81	0.51	1.43	1.23	1.34	0.29	0.16	0.55	0.65
17	14.30	2.22	5.70	0.61	56	28.11	20.81	0.62	1.30	1.18	1.30	0.42	0.16	0.53	0.60

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.23	0.15	5.00	0.18	0.94	0.16	0.04	0.53	0.56

Weather: Overcast; cool; light breezeComment:

Survey 95-06

STATION 14

Location 5 MILES NORTH OF PEACOCK POINT, N.B.

Date	14-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:26 AM	20.00	5	0.3	17.1	15.5	29	1.90	5.38	0.65	46°15.10'	63°52.42'	395	87

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	14.05	1.90	6.01	0.68	51	28.30	21.01	0.55	1.45	0.88	1.10	1.05	0.56	0.76	1.75
4	14.05	1.90	5.70	0.67	49	28.31	21.01	0.64	2.03	0.98	1.01	0.96	0.57	0.75	1.75
12	14.05	1.90	5.70	0.67	47	28.31	21.01	0.40	2.07	1.05	1.12	0.99	0.56	0.78	1.58
17	14.06	2.22	6.01	0.63	49	28.31	21.01	0.59	1.93	1.02	1.18	0.98	0.56	0.76	1.54

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.98	0.21	6.62	0.28	0.96	0.36	0.04	0.54	0.55

Weather: Sunny; cool; light wind**Comment:** Could not anchor due to PEI power cable corridor

Survey 95-06

STATION 15

Location 5 MILES NORTH OF CAPE TORMENTINE, N.B.

Date	14-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	10:06 AM	20.00	6	0.3	16.6	14.8	28.5	2.22	5.70	0.61	46°12.33'	63°45.01'	1678	369

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	13.98	2.22	6.65	0.67	43	28.33	21.04	0.49	1.16	1.29	1.23	0.47	0.44	0.76	1.60
4	13.96	2.22	7.59	0.71	64	28.33	21.05	0.37	0.95	1.30	1.31	0.54	0.46	0.77	1.51
12	13.93	2.22	6.01	0.63	54	28.34	21.06	0.53	1.17	1.26	1.22	0.55	0.42	0.74	1.52
17	13.93	2.22	6.33	0.65	52	28.34	21.06	0.45	1.52	1.25	1.35	0.53	0.45	0.76	1.51

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.30	0.22	7.28	-0.17	0.95	0.70	0.05	0.57	0.54

Weather: Sunny; warm; light breeze

Comment: Dead center of fixed link site; strong current at 15m; 11:22am storm warning issued for tomorrow; 50km winds expected

Survey 95-06

STATION 16

Location 4 MILES SOUTH OF BELLS POINT, P.E.I.

Date	14-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:28 PM	22.00	5	0.3	19.9	15.4	30	1.90	4.11	0.54	46°08.90'	63°38.08'	1946	428

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	14.30	2.22	5.70	0.61	40	28.56	21.16	0.58	0.78	1.31	1.23	0.24	0.12	0.75	2.49
4	14.20	2.22	6.33	0.65	62	28.55	21.17	0.41	0.84	1.38	1.10	0.28	0.10	0.76	2.26
12	14.15	2.22	6.65	0.67	61	28.56	21.19	0.67	0.77	1.78	1.53	0.22	0.09	0.77	2.20
17	14.14	1.58	6.01	0.74	55	28.57	21.20	0.53	0.82	1.51	1.38	0.21	0.08	0.76	2.05

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.38	0.26	6.78	1.00	0.93	0.80	0.07	0.78	0.82

Weather: Sunny; warm; light wind**Comment:**

Survey 95-06

STATION .17

Location 7 MILES SOUTH OF VICTORIA HARBOUR, P.E.I.

Date	14-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	2:11 PM	18.00	5	0.3	25.1	15.1	30	2.53	6.01	0.58	46°05.83'	63°30.49'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	14.17	2.85	8.23	0.65	96	28.54	21.17			2.67	1.73	0.24	0.08	0.72	1.99

Weather: Sunny; warm; light breeze**Comment:****Survey 95-06**

STATION .18

Location 7 MILES SOUTH OF BLACK POINT, P.E.I.

Date	14-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	2:55 PM	22.00	6	0.3	19.5	15.9	28	3.16	7.91	0.60	46°02.59'	63°23.27'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	14.12	4.75	11.39	0.58	104	28.68	21.29			3.43	2.41	0.19	0.09	0.78	2.05

Weather: Sunny; warm; light wind**Comment:**

Survey 95-06

STATION 19

Location 5 MILES EAST OF PRIM POINT, P.E.I.

Date	14-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:59 PM	19.00	4.5	0.3	24	15.1	29	4.11	11.71	0.65	46°02.70'	63°09.79'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	14.03	4.11	13.92	0.70	120	28.60	21.24			4.54	2.58	0.37	0.12	0.77	2.21

Weather: Sunny; warm; light winds**Comment:**

Survey 95-06

STATION 20

Location CARDIGAN BAY, P.E.I. - LEASE #M00121

Date	17-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	12:00 PM	8.00												

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
8		6.96	19.30	0.64				1.01	1.09	2.77	2.38	0.53	0.10	0.53	1.25

Weather: Cloudy; cold; gales**Comment:** P.E.I. Inspection sampled water at lease M00121 and brought to the boat to be processed. Latitude & Longitude not recorded.

Survey 95-06

STATION 21

Location 5 MILES SW OF JENYEN'S POINT, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	8:50 AM	23.00												

Weather: Sunny; cool; choppy**Comment:** CTD cast only

Survey 95-06

STATION 22

Location 3 MILES SSW OF WOOD ISLANDS, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	9:52 AM	21.00	2.5	0.6	13.1	13.7	29.5	4.11	11.71	0.65	45°54.26'	62°47.08'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	13.15	4.43	12.34	0.64	87	28.57	21.39			2.31	2.03	0.32	0.12	0.82	3.67

Weather: Sunny; cool; breezy**Comment:**

Survey 95-06

STATION 23

Location 3.5 MILES EAST OF CAPE BEAR, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:34 AM	34.00	6.5	0.2	13.4	12.5	29	2.22	5.06	0.56	45°59.94'	62°21.83'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	12.23	2.85	5.70	0.50	41	28.99	21.89			1.29	1.15	0.87	0.98	0.59	4.37

Weather: Sunny; cool; light windsComment:

Survey 95-06

STATION 24

Location 1.5 MILES EAST OF GRAHAM POINT, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	12:20 PM	18.00	5.5	0.3	13.5	12.9	30	2.53	5.70	0.56	46°05.23'	62°24.57'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	11.96	3.48	9.49	0.63	67	28.95	21.90			1.95	1.22	0.39	0.64	0.47	4.06

Weather: Sunny; cool; high windsComment:

Survey 95-06

STATION 25

Location 2.0 MILES EAST OF SMITH POINT, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:44 PM	15.00	4.5	0.3	13.6	12.6	24	3.48	8.54	0.59	46°08.11'	62°24.91'	2110	464

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	12.24	4.75	12.66	0.63		28.59	21.57	0.48	0.85	2.39	1.45	0.16	0.28	0.44	3.28
4	12.24	5.06	13.29	0.62	73	28.77	21.71	0.69	0.65	2.29	1.50	0.18	0.27	0.44	3.18
7	12.23	5.06	14.24	0.64	85	28.78	21.72	0.58	0.67	2.21	1.39	0.12	0.28	0.45	3.18
14	12.07	2.85	7.28	0.61	111	28.86	21.82	0.32	0.91	1.29	0.92	1.11	1.13	0.54	5.38

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.29	0.15	3.34	0.59	0.96	0.15	0.04	0.39	0.41

Weather: Sunny; cool; light winds**Comment:**

Survey 95-06

STATION 26

Location 1.0 MILE SW OF RED POINT, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:01 PM	14.00	4	0.4	15.4	12.8	29	4.43	10.76	0.59	46°11.65'	62°29.43'	980	216

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	12.27	5.38	14.87	0.64	115	28.66	21.62	0.71	0.67	2.46	1.62	0.09	0.08	0.43	2.28
4	12.27	6.01	16.14	0.63	112	28.66	21.62	0.77	0.49	2.56	1.82	0.04	0.07	0.42	2.33
7	11.91	4.11	11.71	0.65	75	29.05	21.99	0.47	0.88	1.79	1.25	0.65	0.78	0.48	4.85
12	11.75	2.22	4.75	0.53	37	29.14	22.09	0.25	0.89	0.90	0.78	1.87	1.63	0.66	7.78

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	2.56	0.13	3.09	0.55	0.95	0.20	0.03	0.30	0.31

Weather: Sunny; cool; breezy

Comment:

Survey 95-06

STATION 27

Location 1.7 MILES EAST OFF CARDIGAN POINT, P.E.I.

Date	18-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	4:05 PM	14.00	4.5	0.3	14.7	12.8	29	5.06	12.66	0.60	46°10.51'	62°27.81'	1740	383

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	12.23	6.01	14.87	0.60	107	28.71	21.67	0.55	0.39	2.09	1.34	0.29	0.21	0.41	2.28
4	12.24	5.70	15.19	0.63	108	28.72	21.67	0.55	0.61	1.91	1.38	0.15	0.19	0.42	2.31
7	12.23	5.70	15.51	0.63	111	28.72	21.67	0.77	0.32	1.79	1.14	0.18	0.18	0.43	2.23
12	12.02	3.80	10.44	0.64	85	28.95	21.90	0.27	0.89	1.77	1.22	0.71	0.85	0.52	4.30

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R^2	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	1.91	0.12	3.26	0.44	0.95	0.53	0.03	0.31	0.32

Weather: Overcast; cool; breezy**Comment:**

Survey 95-06

STATION 28

Location 5 MILES EAST OF GRAHAM POINT, P.E.I.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:08 AM	20.00	6	0.3	14.9	12.1	30	2.22	6.01	0.63	46°07.26'	62°22.23'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	11.77	2.22	6.33	0.65	44	29.10	22.06			0.82	0.77	0.68	1.02	0.50	4.33

Weather: Overcast; cool; light winds**Comment:**

Survey 95-06

STATION 29

Location 5 MILES EAST OF GRAHAM LEDGE, P.E.I.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	8:40 AM	32.00	7.5	0.2	12.8	13.2	30	2.22	5.70	0.61	46°03.68'	62°18.51'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	12.63	2.53	6.33	0.60	45	28.91	21.75			0.67	0.78	0.31	0.47	0.36	2.59

Weather: Cloudy; cool; light breeze**Comment:**

Survey 95-06

STATION 30

Location FISHERMAN'S BANK

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	9:18 AM	15.00	8	0.2	13.2	12.6	30	1.90	4.11	0.54	46°01.34'	62°15.34'	1237	272	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	12.66	1.90	5.06	0.62	29	28.76	21.63	0.39	0.17	0.51	0.62	0.43	0.56	0.37	2.63
4	12.64	2.22	4.75	0.53	37	28.91	21.75	0.27	0.34	0.75	0.81	0.48	0.50	0.34	2.46
7	12.64	1.58	4.75	0.67	37	28.91	21.75	0.23	0.38	0.74	0.80	0.58	0.52	0.35	2.46
14	12.64	1.90	4.43	0.57	34	28.91	21.75	0.35	0.32	0.70	0.88	0.51	0.53	0.36	3.95

NOTE: P-I station

Depth (m)	$Chla$	α	P_m	R	R ²	χ^2	Standard Error of α	Standard Error of P_m	Standard Error of R
4	0.75	0.10	5.23	-0.15	0.97	0.29	0.01	0.29	0.24

Weather: Sunny with clouds; cool; light breeze**Comment:** Rocky bottom; cannot anchor

Survey 95-06

STATION 31

Location 8.5 MILES NE OF CAPE GEORGE, N.S.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	11:10 AM	42.00	5	0.3	13	13.2	29	4.11	12.03	0.66	45°59.11'	62°06.18'			
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	13.14	4.75	12.97	0.63	93	28.80	21.57			3.02	1.32	0.31	0.15	0.38	1.80

Weather: Overcast; cool; light breeze**Comment:**

Survey 95-06

STATION 32

Location 5 MILES NE OF CAPE GEORGE, N.S.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$	
Time	12:15 PM	45.00	8	0.2	13.7	13.4	29.5	2.85	5.70	0.50	45°57.57'	62°00.02'	511	112	
Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	13.11	3.80	9.18	0.59	65	28.81	21.58	0.47	0.29	1.79	1.29	0.40	0.19	0.35	1.85
4	13.11	3.16	8.54	0.63	65	28.81	21.59	0.47	0.15	1.61	1.27	0.19	0.17	0.31	2.59
12	13.09	3.16	8.54	0.63	56	28.82	21.59	0.32	0.44	1.50	1.20	0.22	0.17	0.32	2.14
27	13.02	1.90	5.06	0.62	42	28.84	21.62	0.22	0.35	0.97	0.93	5.85	0.22	0.33	1.95

Weather: Overcast; cool; light winds**Comment:** Light readings only to 25m

Survey 95-06

STATION 33

Location 2.5 MILES NORTH OF CAPE GEORGE, N.S.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	1:58 PM	40.00									45°55.36'	61°53.49'		

Weather: Overcast; cool; light winds**Comment:** CTD cast only

Survey 95-06

STATION 34

Location ST. GEORGES BAY, N.S.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_I$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	3:09 PM	34.00	6.5	0.2	12.8	13.5	29	2.53	5.70	0.56	45°48.25'	61°42.41'	717	158

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
1	13.22	2.22	6.65	0.67	43	28.75	21.52	0.33	0.39	1.03	1.13	0.50	0.27	0.35	2.48
4	13.23	2.22	7.28	0.70	49	28.76	21.52	1.22	0.98	0.98	1.10	0.51	0.26	0.35	2.61
12	13.22	2.22	5.70	0.61	44	28.76	21.52	0.39	0.18	1.00	0.85	0.34	0.28	0.33	2.44
27	13.20	2.22	5.38	0.59	37	28.76	21.53	0.21	0.57	0.86	0.82	0.67	0.26	0.35	2.42

Weather: Overcast; cool; light winds**Comment:**

Survey 95-06

STATION 35

Location OFF CAPE JACK, N.S.

Date	19-Oct-95	Total Depth (m)	SECCHI Depth (m)	$-k_1$	Air Temperature (°C)	Surface Temperature (°C)	Surface Salinity (p.p.t.)	Surface F_o	Surface F_{dcmu}	Surface FRI	Latitude	Longitude	$\langle I_o \rangle$	$\langle I_z \rangle$
Time	4:42 PM	30.00	5	0.3	14.3	13.2	29	3.16	7.91	0.60	45°45.18'	61°36.93'		

Depth (m)	Temp. (°C)	F_o	F_{dcmu}	FRI	F_{CTD} (Relative)	Sal (PSU)	σ_t (kg/m ³)	POM (mg/L)	PIM (mg/L)	C_a (µg/L)	P_a (µg/L)	NH_3 (µM)	$NO_2 + NO_3$ (µM)	PO_4 (µM)	SiO_4 (µM)
4	13.26	2.53	7.91	0.68	63	28.70	21.47			1.47	1.13	0.57	0.19	0.28	2.11

Weather: Overcast; cool; light windsComment:

Appendix 4.8 Average, minimum, maximum, standard deviation and variance of particulate organic matter (*POM*), particulate inorganic matter (*PIM*), chlorophyll (*C_a*), phaeophytin (*P_a*), ammonia (*NH₃*), nitrates (*NO₂ + NO₃*), phosphate (*PO₄*) and silicate (*SiO₄*) by sampling event and for the year 1995.
(Variance = ((Std. dev. / Avg.) x 100))

<u>Survey</u>	<i>POM</i> (mg / L)	<i>PIM</i> (mg / L)	<i>C_a</i> (µg / L)	<i>P_a</i> (µg / L)	<i>NH₃</i> (µM)	<i>NO₂ + NO₃</i> (µM)	<i>PO₄</i> (µM)	<i>SiO₄</i> (µM)
<u>Cardigan, P.E.I.</u>								
06-Nov-95 To 07-Nov-95								
Average:	0.75	1.02	6.17	3.24	0.38	0.14	0.37	1.25
Minimum:	0.51	0.31	5.19	2.55	0.23	0.11	0.32	0.59
Maximum:	1.27	1.65	7.94	4.29	0.62	0.27	0.44	2.21
St. Dev.:	0.19	0.34	0.80	0.51	0.11	0.04	0.04	0.57
Variance:	25.90	33.07	12.96	15.86	29.03	32.00	11.20	45.39
<u>Survey 95-01</u>								
05-Jun-95 To 12-Jun-95								
Average:	0.55	0.65	0.43	0.66	0.59	0.28	0.34	2.55
Minimum:	0.21	0.02	0.01	0.07	-0.03	0.00	0.13	0.30
Maximum:	1.04	2.13	1.55	2.23	3.52	3.34	0.86	11.36
St. Dev.:	0.19	0.48	0.32	0.37	0.77	0.67	0.16	2.14
Variance:	34.94	73.31	74.75	55.81	131.36	242.68	46.66	83.90
<u>Survey 95-02</u>								
28-Jun-95 To 06-Jul-95								
Average:			0.55	0.42		0.03	0.13	3.02
Minimum:			0.19	0.13		0.00	0.04	1.50
Maximum:			1.94	1.54		0.19	0.41	4.38
St. Dev.:			0.42	0.33		0.07	0.08	0.89
Variance:			77.65	80.27		194.17	60.99	29.40

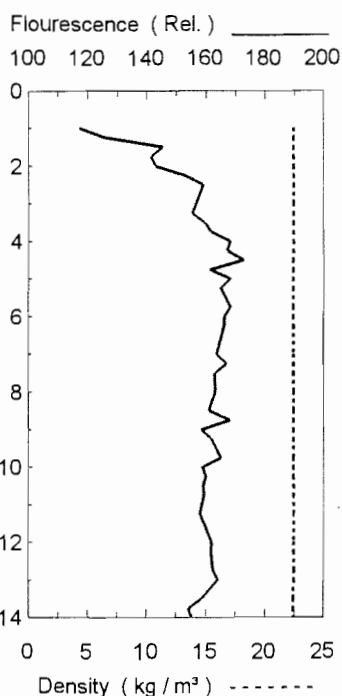
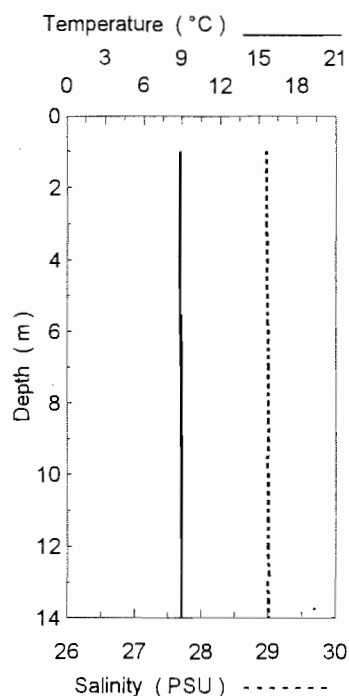
<u>Survey</u>	<i>POM</i> (mg / L)	<i>PIM</i> (mg / L)	<i>C_a</i> (µg / L)	<i>P_a</i> (µg / L)	<i>NH₃</i> (µM)	<i>NO₂ + NO₃</i> (µM)	<i>PO₄</i> (µM)	<i>SiO₄</i> (µM)
<u>Survey 95-03</u>								
29-Jun-95 To 08-Jul-95								
Average:	0.46	0.46	0.60	0.71	0.22	0.12	0.31	1.99
Minimum:	0.05	-0.15	0.10	0.15	-0.17	0.00	0.11	0.58
Maximum:	0.78	1.96	3.11	2.05	1.90	1.73	0.73	8.00
St. Dev.:	0.15	0.38	0.44	0.42	0.29	0.28	0.13	1.25
Variance:	32.08	80.88	74.25	59.21	131.38	235.15	40.88	62.87
<u>Survey 95-04</u>								
08-Aug-95 To 15-Aug-95								
Average:	0.79	1.23	0.90	0.98	0.55	0.33	0.39	3.01
Minimum:	0.34	-0.17	0.11	0.20	0.09	0.03	0.11	0.30
Maximum:	1.54	5.15	2.85	3.65	2.26	3.31	0.94	11.05
St. Dev.:	0.29	0.87	0.69	0.79	0.45	0.71	0.24	2.52
Variance:	37.17	71.25	76.79	80.51	82.27	215.29	61.12	83.55
<u>Survey 95-05</u>								
07-Sep-95 To 14-Sep-95								
Average:	0.83	1.68	1.63	1.37	0.27	0.10	0.38	1.06
Minimum:	0.40	-0.53	0.34	0.46	0.08	0.02	0.12	0.17
Maximum:	1.38	4.39	3.24	2.23	0.57	0.31	0.64	2.72
St. Dev.:	0.22	1.04	0.70	0.46	0.12	0.06	0.12	0.85
Variance:	26.09	62.13	42.78	33.81	43.93	62.27	31.61	79.47
<u>Survey 95-06</u>								
11-Oct-95 To 19-Oct-95								
Average:	0.58	0.96	2.40	1.56	0.45	0.28	0.50	1.90
Minimum:	0.21	-0.07	0.18	0.31	-0.01	0.02	0.28	0.21
Maximum:	1.45	2.71	7.49	4.37	5.85	1.63	0.82	7.78
St. Dev.:	0.25	0.59	1.84	0.84	0.70	0.30	0.16	1.41
Variance:	43.98	61.90	76.75	53.81	156.77	106.27	31.60	74.23

Survey	<i>POM</i> (mg / L)	<i>PIM</i> (mg / L)	<i>C_a</i> (μg / L)	<i>P_a</i> (μg / L)	<i>NH₃</i> (μM)	<i>NO₂ + NO₃</i> (μM)	<i>P0₄</i> (μM)	<i>Si0₄</i> (μM)
1995:								
Average:	0.63	0.97	1.30	1.08	0.40	0.20	0.37	2.12
Minimum:	0.05	-0.53	0.01	0.07	-0.17	0.00	0.04	0.17
Maximum:	1.54	5.15	7.94	4.37	5.85	3.34	0.94	11.36
St. Dev.:	0.26	0.81	1.45	0.79	0.52	0.45	0.18	1.78
Variance:	43.98	61.90	76.75	53.81	156.77	106.27	31.60	74.23

Appendix 5.1 Cardigan, PEI CTD profiles of temperature (°C), salinity (PSU), density (kg/m³) and fluorescence (relative) - 1995.

1995 Cardigan, P.E.I.

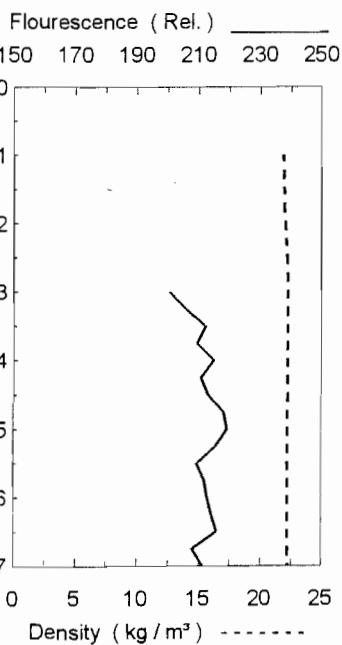
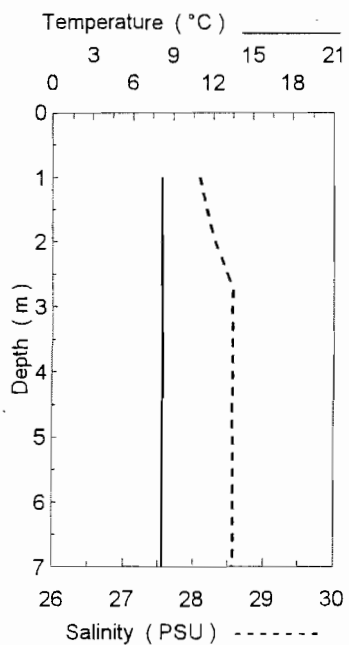
STATION 1



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	8.82	28.89	117.20	22.37
2	8.82	28.97	145.10	22.42
4	8.82	28.98	165.10	22.44
5	8.83	28.98	165.00	22.44
6	8.89	28.99	166.70	22.43
7	8.91	28.99	164.80	22.43
8	8.91	28.99	161.30	22.43
9	8.92	29.00	162.30	22.43
10	8.91	28.99	161.50	22.43
11	8.91	28.99	158.40	22.43
12	8.93	29.00	161.20	22.43
13	8.97	29.00	162.20	22.43
14	8.98	29.01	153.20	22.43

1995 Cardigan, P.E.I.

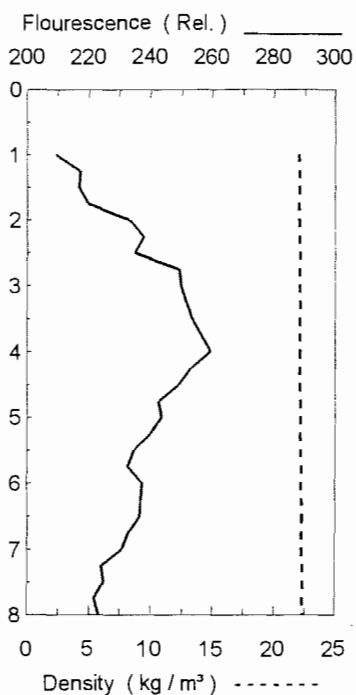
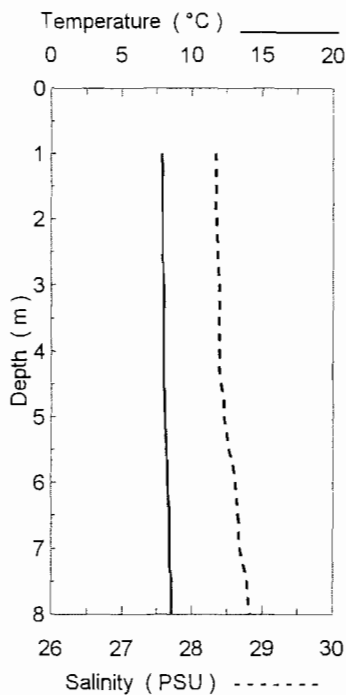
STATION 2



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	8.17	28.10		22.00
2	8.17	28.33		22.02
3	8.18	28.56	200.80	22.19
4	8.19	28.57	199.30	22.20
5	8.19	28.57	215.00	22.20
6	8.19	28.57	213.30	22.20
7	8.19	28.57	211.90	22.20

1995 Cardigan, P.E.I.

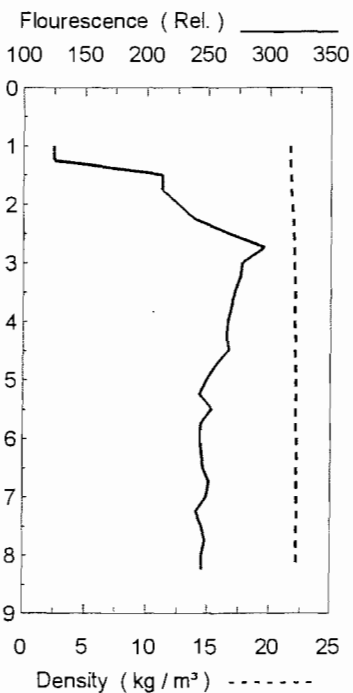
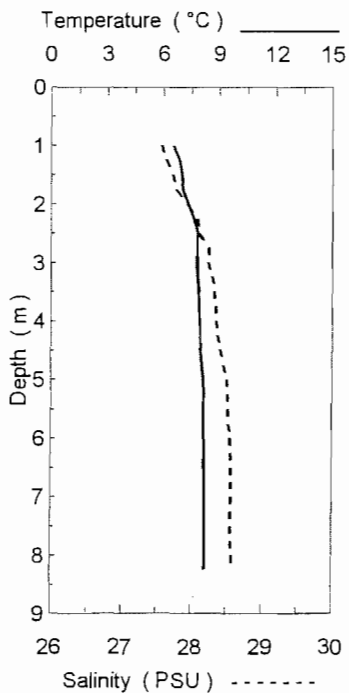
STATION 3



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	7.87	28.34	201.60	22.07
2	7.89	28.35	229.90	22.07
3	7.97	28.38	249.50	22.09
4	7.99	28.39	256.00	22.09
5	8.08	28.46	242.40	22.14
6	8.28	28.61	235.20	22.22
7	8.39	28.70	228.40	22.28
8	8.62	28.84	222.10	22.36

1995 Cardigan, P.E.I.

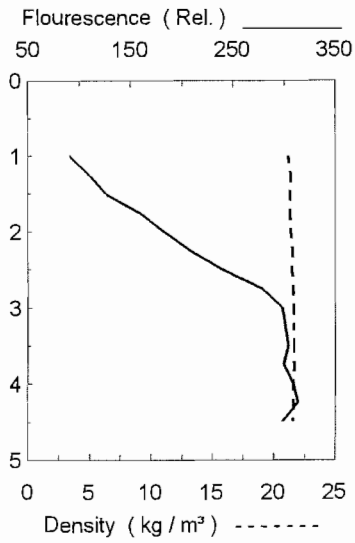
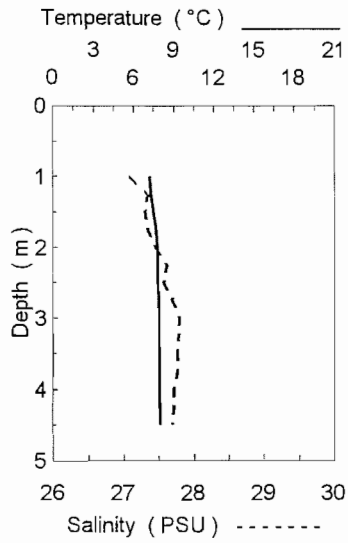
STATION 4



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	6.64	27.59	124.40	21.63
2	7.36	27.94	212.10	21.82
3	7.79	28.24	273.60	22.00
4	7.94	28.36	266.70	22.08
5	8.11	28.49	252.10	22.15
6	8.19	28.55	245.20	22.19
7	8.23	28.58	247.60	22.20
8	8.24	28.58	246.20	22.20

1995 Cardigan, P.E.I.

STATION 5

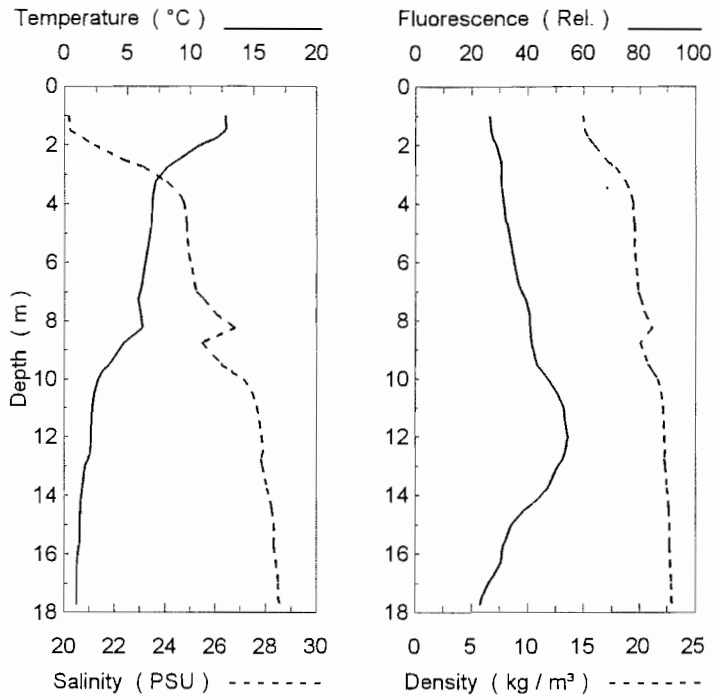


Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	7.17	27.18	95.41	21.24
2	7.70	27.47	184.40	21.41
3	7.89	27.76	293.50	21.61
4	7.94	27.74	306.70	21.58

Appendix 5.2 Survey 95-01 CTD profiles of temperature (°C), salinity (PSU), density (kg / m³) and fluorescence (relative).

Survey 95-01

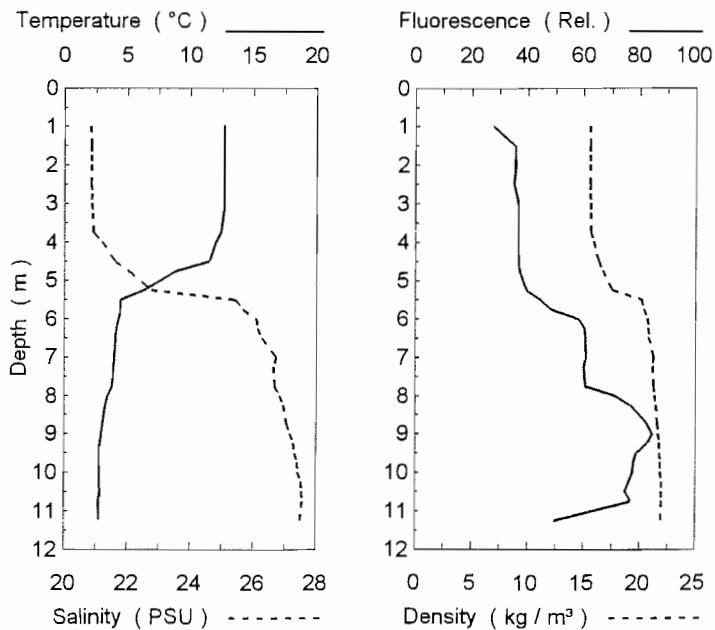
STATION 1



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	12.89	20.30	20	14.98
2	10.67	22.11	28	16.04
3	7.64	24.28	31	18.32
4	6.97	24.79	31	19.28
5	6.75	24.94	33	19.47
6	6.39	25.14	35	19.59
7	5.98	25.41	38	19.89
8	6.11	26.20	41	20.71
9	4.36	26.80	42	20.42
10	2.65	27.48	47	21.57
11	2.23	27.74	52	22.04
12	2.09	27.86	54	22.20
13	1.70	28.02	51	22.22
14	1.33	28.26	44	22.49
15	1.24	28.31	34	22.63
16	1.07	28.42	31	22.68
17	0.97	28.48	26	22.78
18	0.98	28.52	21	22.88

Survey 95-01

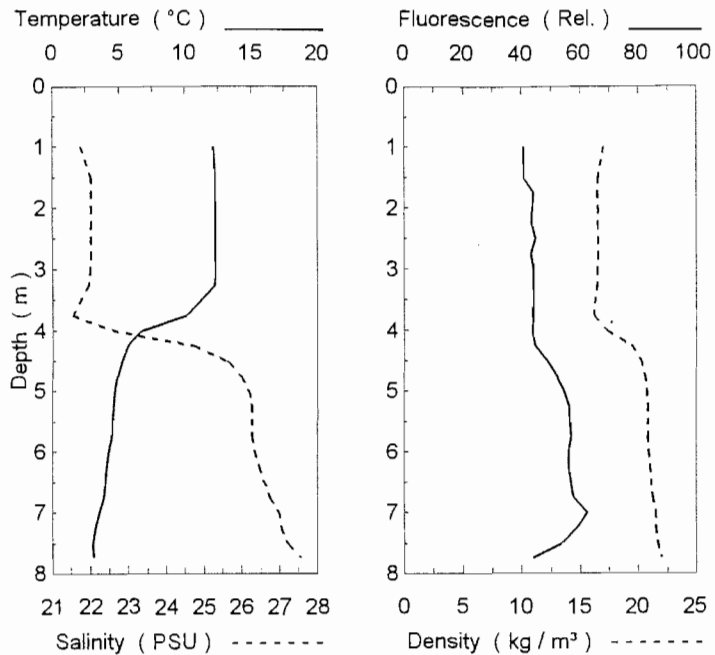
STATION 2



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	12.67	20.77	28	15.46
2	12.67	20.84	34	15.51
3	12.64	20.87	36	15.53
4	12.05	21.33	36	15.82
5	7.20	24.39	40	17.68
6	4.25	26.20	56	20.60
7	3.94	26.61	60	21.05
8	3.47	26.95	70	21.32
9	2.92	27.26	82	21.63
10	2.77	27.44	77	21.87
11	2.74	27.55	49	21.95

Survey 95-01

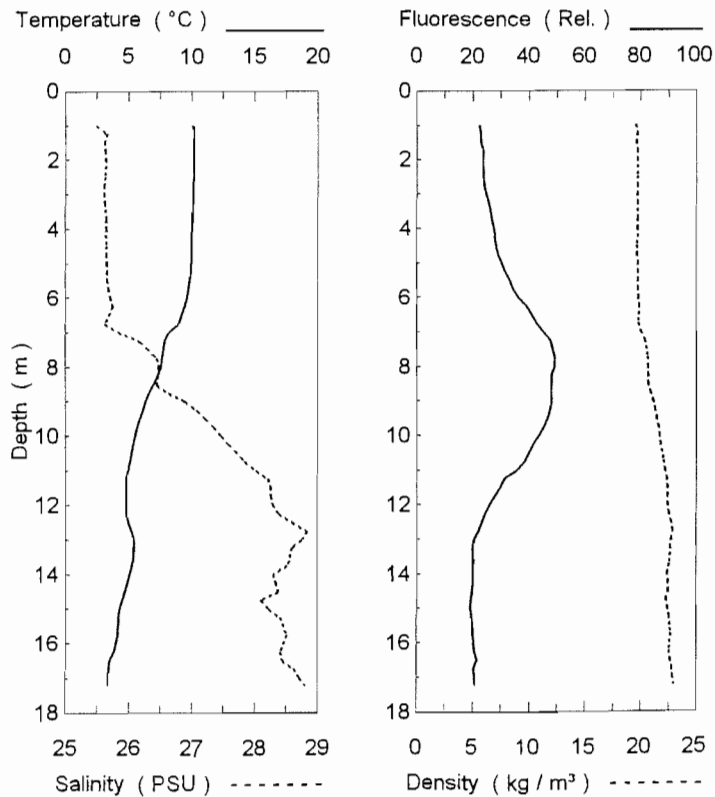
STATION 3



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.33	21.73	41	16.27
2	12.29	21.99	42	16.46
3	12.25	22.00	44	16.46
4	7.30	24.53	45	18.09
5	4.56	26.36	54	20.86
6	4.21	26.52	56	20.90
7	3.52	27.05	59	21.37
8	2.66	27.59	39	22.09

Survey 95-01

STATION 4



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	10.25	25.61	23	19.56
2	10.13	25.64	23	19.62
3	10.03	25.64	25	19.63
4	9.95	25.65	27	19.66
5	9.90	25.67	30	19.67
6	9.55	25.83	37	19.76
7	8.22	26.20	45	20.05
8	7.47	26.57	49	20.63
9	6.30	27.08	48	21.02
10	5.46	27.62	43	21.64
11	4.92	28.11	35	22.14
12	4.76	28.30	26	22.39
13	5.26	28.59	21	22.69
14	5.01	28.52	20	22.44
15	4.34	28.44	19	22.40
16	3.94	28.59	20	22.58
17	3.33	28.80	21	22.92

Survey 95-01

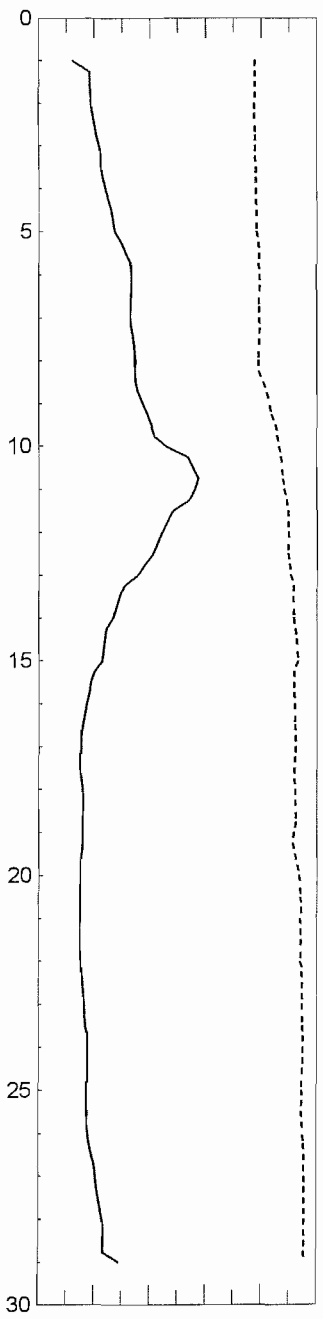
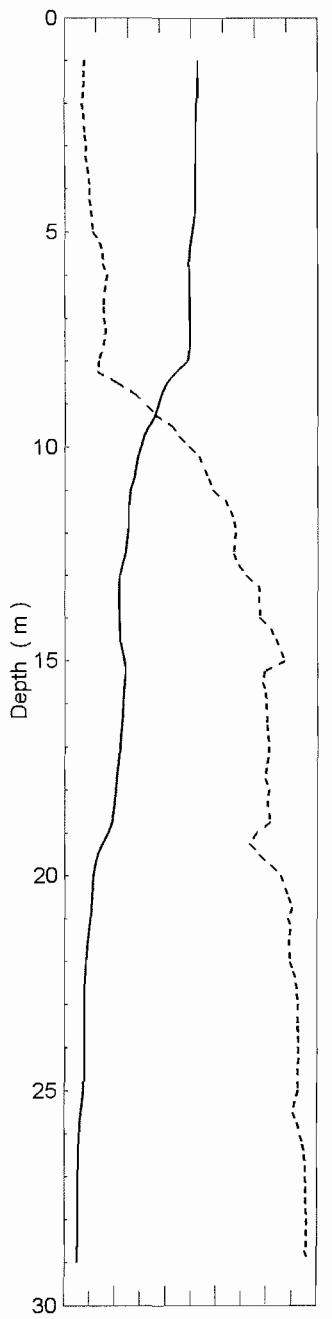
STATION 5

Temperature (°C) _____

Fluorescence (Rel.) _____

0 5 10 15 20

0 20 40 60 80 100



25 26 27 28 29 30

0 5 10 15 20 25

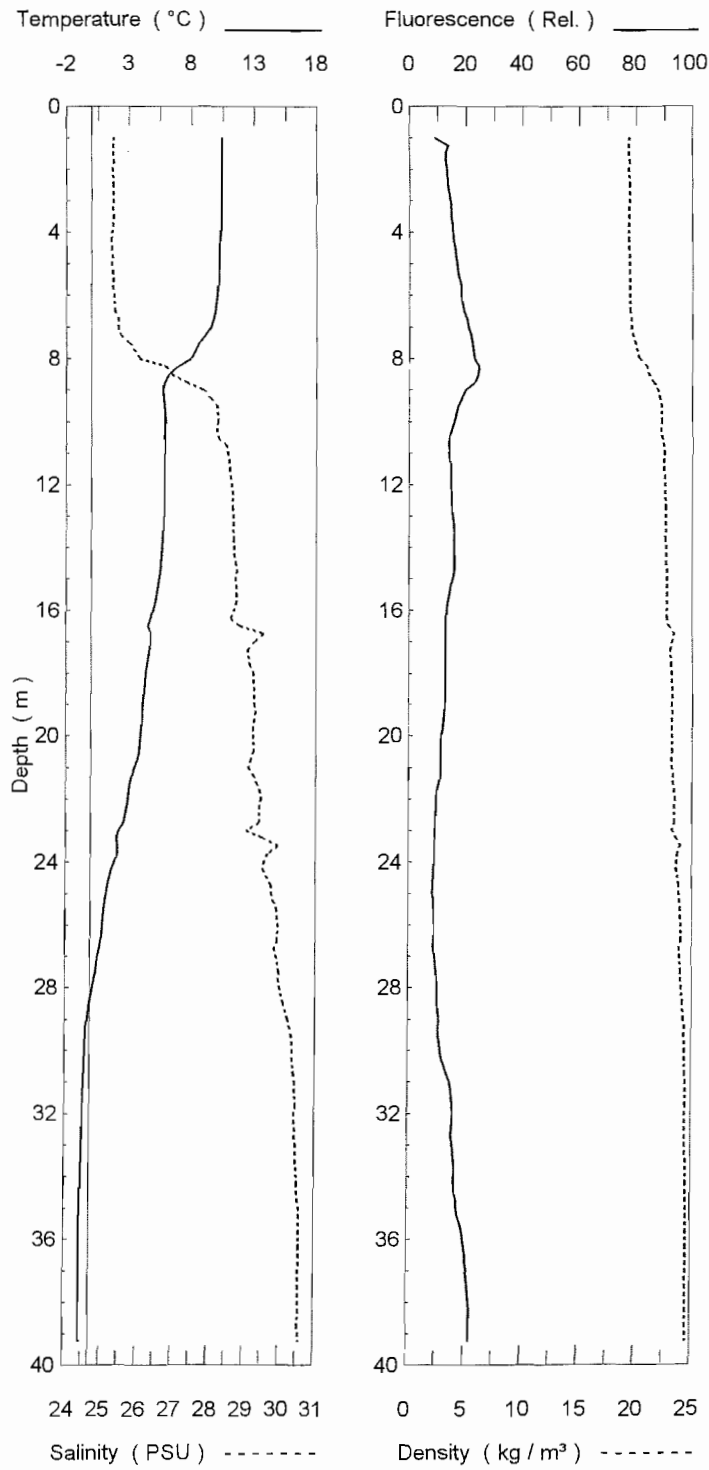
Salinity (PSU) -----

Density (kg / m³) -----

Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	10.51	25.34	12	19.34
2	10.41	25.39	20	19.37
3	10.31	25.42	22	19.43
4	10.31	25.48	24	19.48
5	10.02	25.69	28	19.61
6	9.85	25.78	33	19.80
7	9.89	25.78	33	19.79
8	9.46	25.97	35	19.72
9	7.37	26.99	37	20.69
10	6.03	27.73	47	21.56
11	5.26	28.16	54	22.09
12	4.91	28.42	44	22.39
13	4.34	28.74	35	22.65
14	4.27	28.90	26	22.96
15	4.64	29.05	22	23.08
16	4.57	29.05	17	22.96
17	4.36	29.08	15	22.99
18	4.03	29.11	16	23.01
19	3.33	29.13	16	22.91
20	2.28	29.38	15	23.32
21	2.02	29.53	15	23.53
22	1.70	29.57	15	23.56
23	1.54	29.62	16	23.68
24	1.52	29.62	17	23.69
25	1.46	29.64	17	23.67
26	1.16	29.72	18	23.73
27	1.06	29.78	20	23.84
28	1.02	29.79	23	23.85
29	1.04	29.79	29	23.85

Survey 95-01

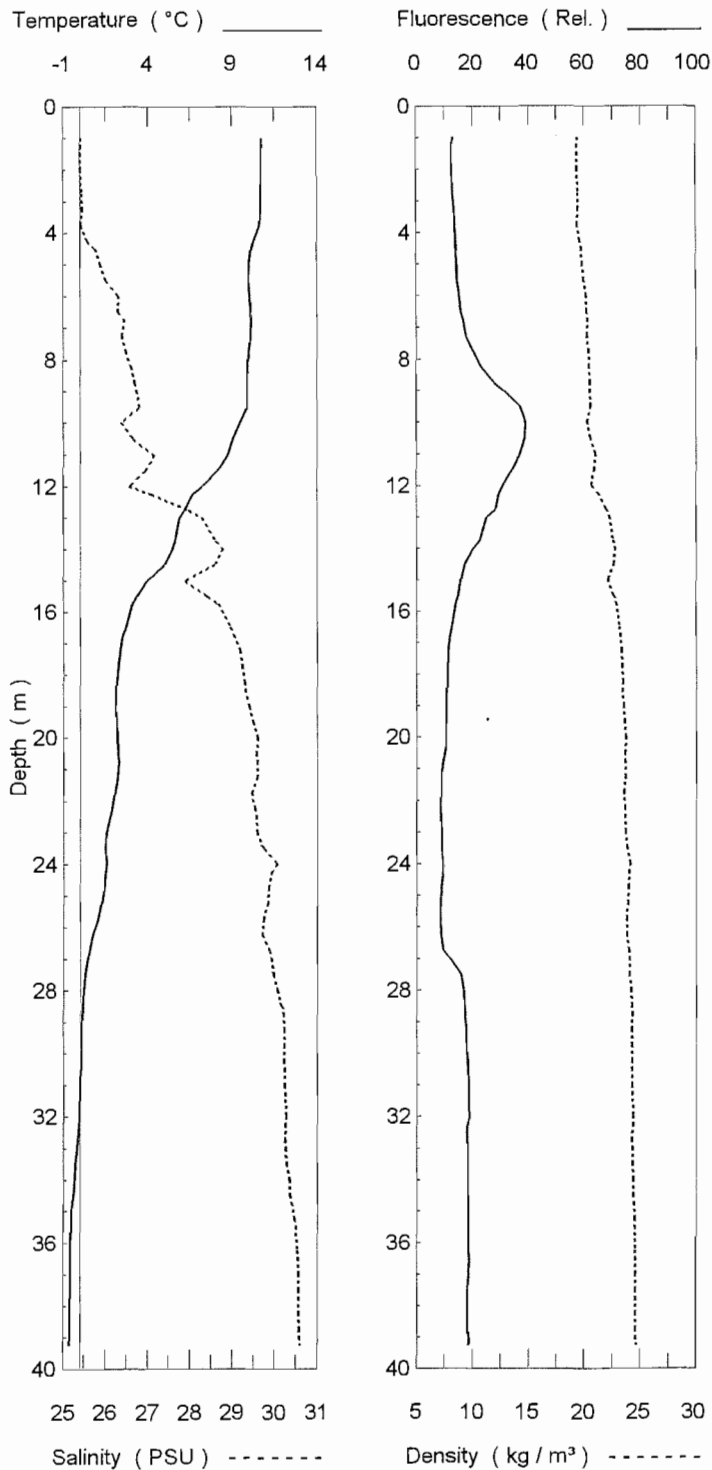
STATION 6



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	10.42	25.27	9	19.30
2	10.38	25.29	13	19.32
3	10.35	25.29	14	19.33
4	10.31	25.29	15	19.31
5	10.19	25.29	17	19.34
6	10.05	25.37	18	19.39
7	9.46	25.66	21	19.55
8	7.54	26.83	23	20.44
9	5.78	27.91	21	21.82
10	5.87	28.21	16	22.21
11	5.88	28.50	14	22.45
12	5.86	28.64	15	22.53
13	5.78	28.68	15	22.57
14	5.64	28.73	16	22.61
15	5.41	28.83	15	22.68
16	4.89	28.90	13	22.71
17	4.70	29.25	13	23.14
18	4.36	29.27	13	23.14
19	4.14	29.33	13	23.23
20	3.93	29.31	11	23.21
21	3.44	29.34	11	23.18
22	2.93	29.53	10	23.44
23	2.27	29.60	9	23.42
24	1.84	29.82	9	23.73
25	1.18	29.89	9	23.83
26	0.92	29.99	9	23.97
27	0.57	30.01	9	23.97
28	0.15	30.13	10	24.05
29	-0.27	30.31	11	24.26
30	-0.43	30.40	11	24.38
31	-0.53	30.44	14	24.43
32	-0.57	30.45	16	24.44
33	-0.65	30.48	16	24.46
34	-0.73	30.52	16	24.50
35	-0.79	30.58	18	24.55
36	-0.80	30.58	20	24.57
37	-0.80	30.57	21	24.56
38	-0.80	30.57	22	24.56
39	-0.79	30.56	22	24.56

Survey 95-01

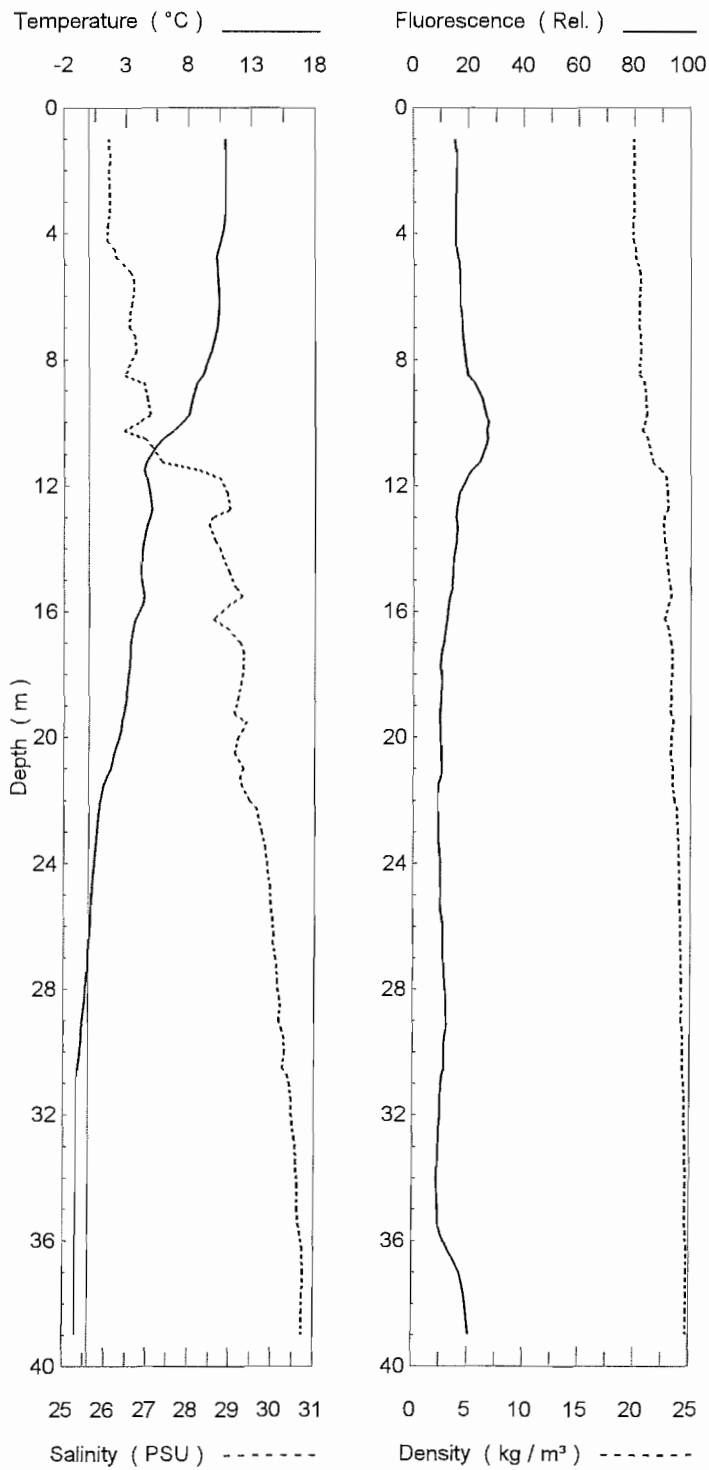
STATION 7



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	10.77	25.37	13	19.32
2	10.70	25.42	13	19.36
3	10.67	25.45	13	19.40
4	10.41	25.63	14	19.44
5	10.03	25.95	14	19.82
6	10.04	26.21	15	20.11
7	10.10	26.40	17	20.24
8	9.93	26.61	21	20.35
9	9.87	26.73	31	20.52
10	9.46	26.80	38	20.44
11	8.58	27.30	36	20.84
12	7.11	27.50	31	20.95
13	5.86	28.56	26	22.26
14	5.42	28.94	20	22.68
15	4.09	28.90	16	22.38
16	2.96	29.12	13	22.91
17	2.42	29.27	11	23.20
18	2.18	29.34	11	23.36
19	2.11	29.41	10	23.48
20	2.19	29.52	10	23.60
21	2.22	29.59	9	23.62
22	1.94	29.64	8	23.55
23	1.57	29.75	9	23.66
24	1.47	29.91	9	23.92
25	1.31	29.93	9	23.87
26	0.88	29.95	8	23.79
27	0.40	30.08	11	23.99
28	0.19	30.15	16	24.10
29	0.09	30.23	17	24.24
30	0.04	30.24	18	24.24
31	-0.02	30.26	18	24.26
32	-0.07	30.28	18	24.28
33	-0.20	30.30	18	24.27
34	-0.35	30.39	18	24.34
35	-0.52	30.49	18	24.43
36	-0.61	30.54	18	24.52
37	-0.63	30.55	18	24.53
38	-0.64	30.56	18	24.54
39	-0.64	30.57	18	24.55

Survey 95-01

STATION 8

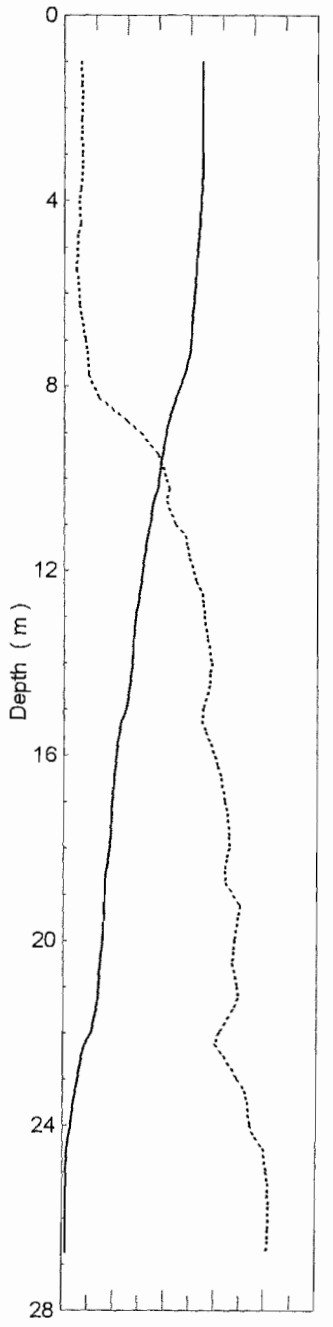


Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	10.92	26.08	15	19.85
2	10.91	26.08	16	19.85
3	10.91	26.08	15	19.86
4	10.63	26.19	15	19.88
5	10.30	26.48	16	20.22
6	10.35	26.60	17	20.35
7	10.18	26.72	18	20.38
8	9.52	26.95	19	20.40
9	8.48	27.26	23	20.84
10	7.24	27.25	26	20.90
11	4.87	27.89	25	21.47
12	4.62	28.73	18	22.89
13	4.80	28.76	16	22.67
14	4.30	28.84	15	22.77
15	4.23	29.00	14	23.03
16	4.07	29.09	12	22.90
17	3.32	29.30	11	23.21
18	3.17	29.34	10	23.31
19	2.79	29.32	10	23.25
20	2.40	29.34	10	23.27
21	1.64	29.47	10	23.35
22	0.87	29.67	9	23.59
23	0.61	29.82	9	23.82
24	0.40	29.93	10	23.94
25	0.22	30.01	10	24.03
26	0.06	30.06	10	24.07
27	-0.12	30.13	11	24.13
28	-0.28	30.20	12	24.19
29	-0.53	30.28	12	24.24
30	-0.75	30.36	11	24.32
31	-0.93	30.44	10	24.42
32	-0.99	30.47	10	24.47
33	-1.00	30.53	9	24.54
34	-0.99	30.59	9	24.58
35	-0.99	30.61	9	24.60
36	-1.01	30.71	11	24.67
37	-1.03	30.74	17	24.70
38	-1.03	30.73	19	24.70
39	-1.02	30.72	21	24.69

Survey 95-01

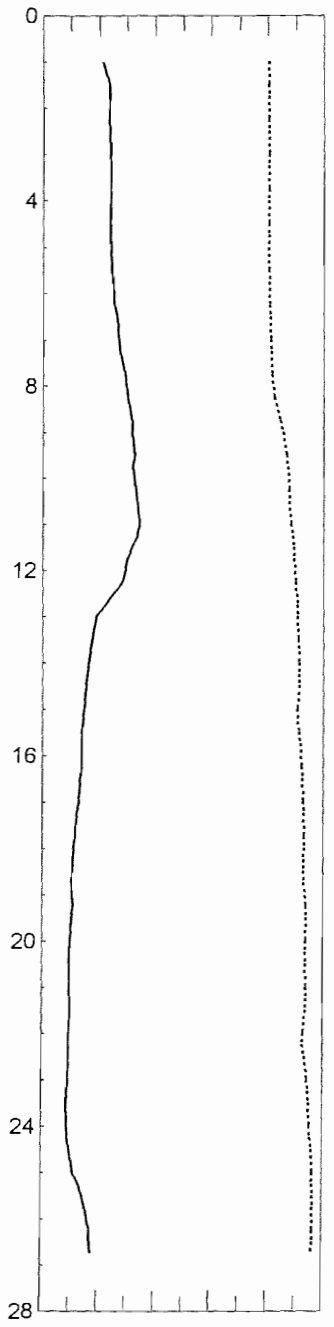
STATION 9

Temperature (°C) _____
 0 5 10 15 20



Salinity (PSU) -----
 26 27 28 29 30 31

Fluorescence (Rel.) _____
 0 20 40 60 80 100

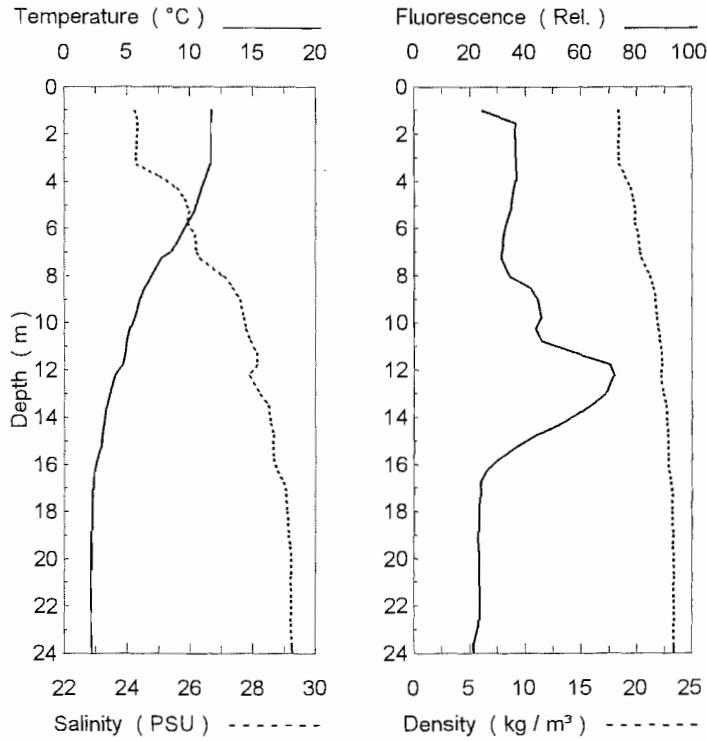


Density (kg/m³) -----
 0 5 10 15 20 25

Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	10.91	26.23	21	19.96
2	10.87	26.37	26	20.08
3	10.86	26.34	24	20.07
4	10.76	26.35	24	20.05
5	10.48	26.35	24	20.03
6	10.21	26.37	25	20.11
7	9.95	26.49	27	20.25
8	9.16	26.94	29	20.42
9	8.08	27.75	32	21.29
10	7.41	28.14	33	21.79
11	6.73	28.43	34	22.11
12	6.17	28.70	29	22.42
13	5.65	28.91	19	22.66
14	5.33	28.99	16	22.79
15	4.81	28.97	15	22.73
16	4.05	29.12	14	22.96
17	3.79	29.27	13	23.18
18	3.58	29.32	11	23.25
19	3.17	29.40	10	23.31
20	3.05	29.45	10	23.40
21	2.75	29.48	10	23.43
22	2.08	29.44	10	23.22
23	1.09	29.68	9	23.56
24	0.58	29.90	9	23.84
25	0.29	30.06	12	24.07
26	0.26	30.07	16	24.11
27	0.31	30.04	18	24.09

Survey 95-01

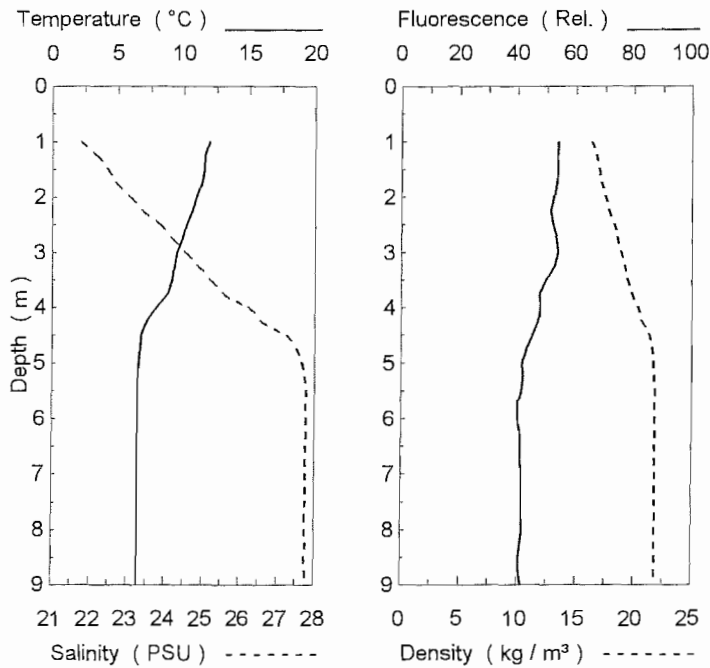
STATION 10



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	11.71	24.13	24	18.21
2	11.63	24.33	38	18.38
3	11.64	24.28	36	18.34
4	11.14	25.49	36	19.13
5	10.48	26.14	35	19.77
6	9.61	26.40	33	19.92
7	8.17	26.87	32	20.26
8	6.85	27.56	34	21.15
9	6.00	27.92	45	21.63
10	5.32	28.06	45	21.86
11	4.91	28.18	52	22.14
12	4.37	28.33	70	22.17
13	3.58	28.62	69	22.41
14	3.25	28.74	57	22.73
15	2.96	28.79	40	22.81
16	2.51	28.94	28	22.89
17	2.27	29.08	24	23.14
18	2.21	29.12	23	23.22
19	2.15	29.17	23	23.27
20	2.12	29.21	23	23.32
21	2.12	29.21	23	23.32
22	2.11	29.21	23	23.33
23	2.11	29.21	23	23.33
24	2.14	29.23	21	23.35

Survey 95-01

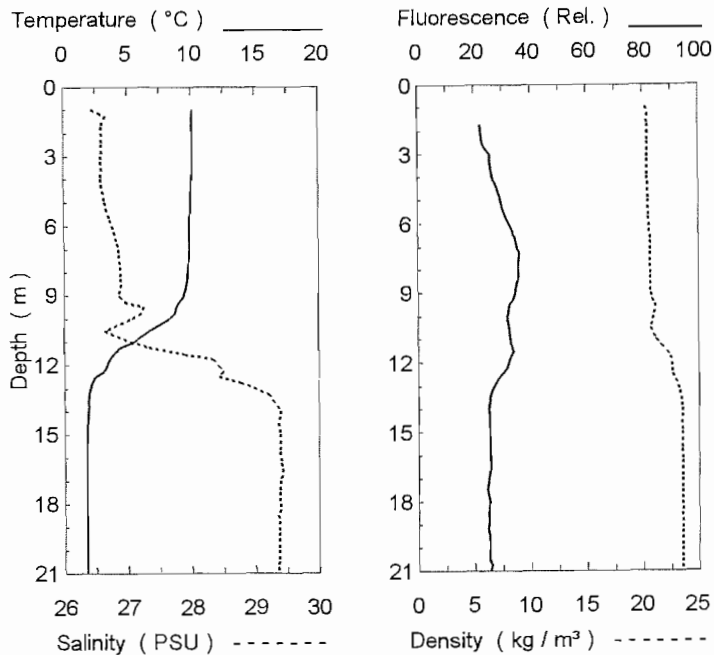
STATION 11



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	11.93	21.90	54	16.34
2	10.95	23.24	53	17.48
3	9.58	24.71	52	18.81
4	7.99	26.47	47	20.26
5	6.65	27.64	42	21.60
6	6.48	27.76	41	21.78
7	6.47	27.76	41	21.78
8	6.46	27.76	41	21.78
9	6.47	27.76	40	21.78

Survey 95-01

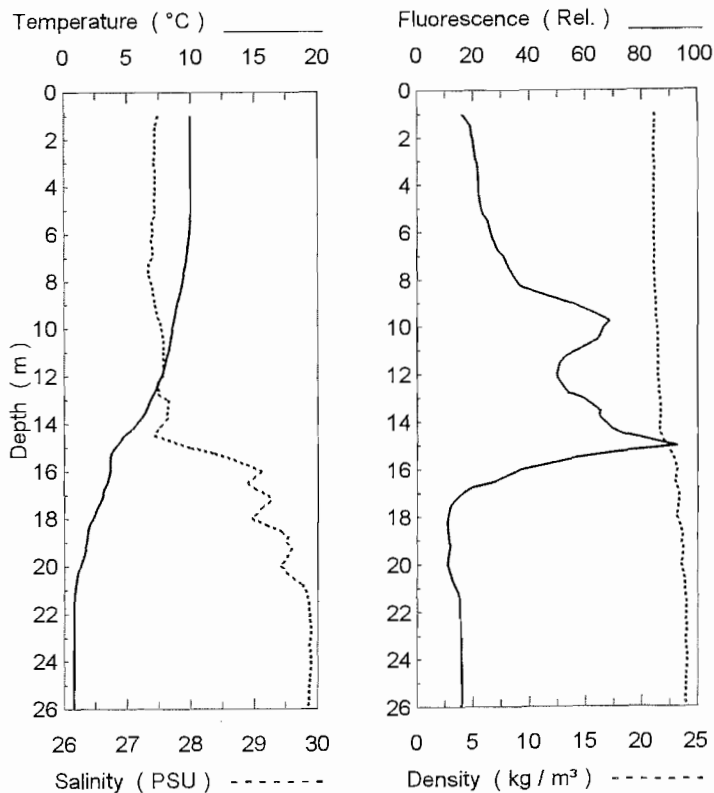
STATION 12



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	10.19	26.49		20.23
2	10.11	26.60	23	20.39
3	10.11	26.59	25	20.38
4	10.05	26.61	27	20.38
5	9.96	26.67	29	20.43
6	9.86	26.79	32	20.54
7	9.83	26.85	35	20.62
8	9.74	26.93	36	20.66
9	9.25	27.11	34	20.76
10	7.92	27.48	32	20.86
11	5.14	28.08	33	21.35
12	3.18	28.74	32	22.52
13	2.09	29.27	27	23.15
14	1.87	29.39	25	23.45
15	1.79	29.41	25	23.49
16	1.76	29.41	26	23.50
17	1.76	29.40	25	23.50
18	1.75	29.39	25	23.49
19	1.74	29.37	25	23.48
20	1.74	29.37	25	23.48
21	1.75	29.36	25	23.47

Survey 95-01

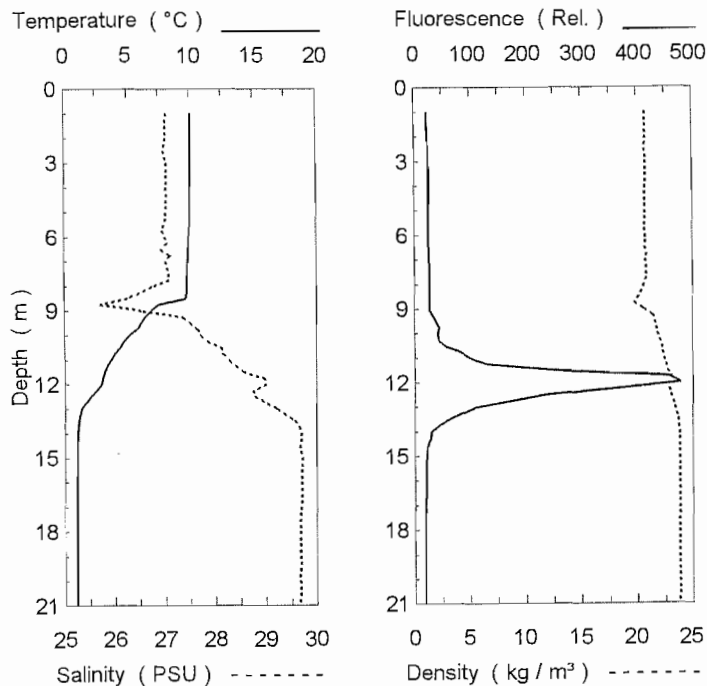
STATION 13



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	9.98	27.55	16	21.14
2	9.94	27.41	21	21.05
3	9.94	27.43	21	21.05
4	9.95	27.43	22	21.06
5	9.93	27.42	23	21.04
6	9.82	27.42	26	21.03
7	9.65	27.43	30	21.05
8	9.29	27.48	35	21.07
9	8.92	27.56	54	21.19
10	8.53	27.63	65	21.32
11	8.17	27.67	56	21.40
12	7.65	27.71	50	21.43
13	6.80	27.83	59	21.57
14	5.76	28.00	67	21.65
15	3.93	28.43	81	22.13
16	3.56	29.01	39	22.99
17	3.02	29.29	17	23.18
18	2.20	29.39	11	23.20
19	1.75	29.61	11	23.65
20	1.29	29.70	11	23.59
21	0.86	29.86	14	23.87
22	0.78	29.88	15	23.93
23	0.75	29.89	16	23.94
24	0.75	29.88	16	23.94
25	0.75	29.86	16	23.93
26	0.77	29.86	16	23.93

Survey 95-01

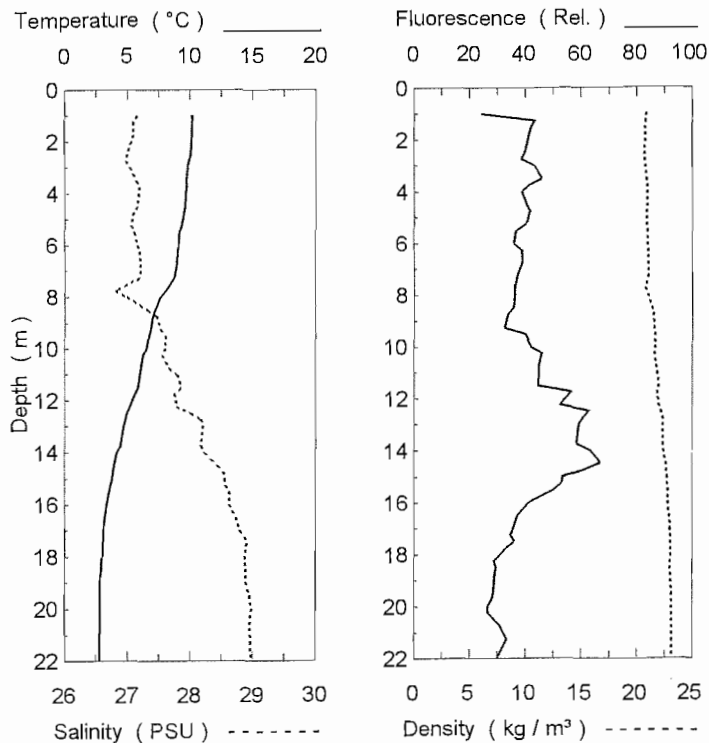
STATION 14



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	10.06	27.12	22	20.80
2	10.03	27.02	23	20.72
3	9.99	27.02	25	20.74
4	10.00	27.03	25	20.74
5	10.01	27.03	25	20.73
6	9.92	27.00	25	20.70
7	9.81	27.06	26	20.78
8	9.73	26.71	27	20.51
9	7.02	27.53	29	20.71
10	5.17	28.20	43	21.87
11	3.68	28.59	102	22.46
12	2.80	29.05	419	22.99
13	1.45	29.50	127	23.34
14	1.06	29.69	40	23.73
15	0.96	29.71	21	23.79
16	0.94	29.70	19	23.79
17	0.94	29.69	18	23.78
18	0.94	29.67	18	23.77
19	0.92	29.67	18	23.77
20	0.91	29.67	18	23.76
21	0.92	29.66	17	23.76

Survey 95-01

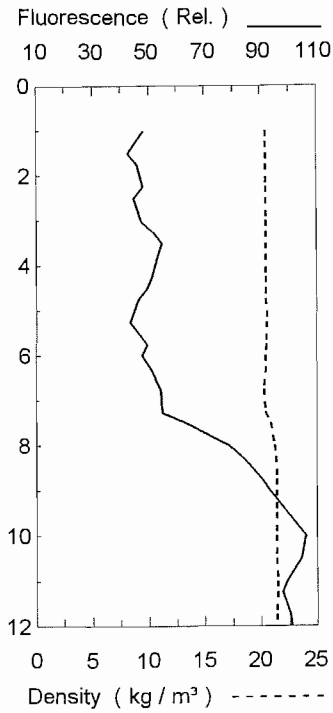
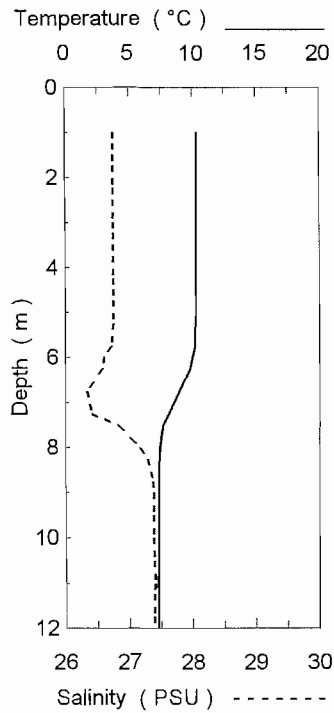
STATION 15



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	10.25	27.09	24	20.74
2	10.14	27.09	39	20.72
3	9.83	27.14	43	20.77
4	9.67	27.21	39	20.91
5	9.39	27.19	40	20.86
6	9.07	27.24	38	20.98
7	8.82	27.27	38	21.03
8	7.67	27.39	36	20.86
9	6.92	27.65	35	21.49
10	6.43	27.74	43	21.62
11	5.97	27.89	45	21.83
12	5.30	28.07	56	21.94
13	4.66	28.32	60	22.34
14	4.17	28.48	63	22.40
15	3.76	28.64	56	22.66
16	3.35	28.79	43	22.78
17	3.08	28.89	35	22.94
18	2.96	28.92	32	23.02
19	2.84	28.95	29	23.03
20	2.79	28.97	27	23.09
21	2.78	28.96	33	23.08
22	2.79	28.97	28	23.09

Survey 95-01

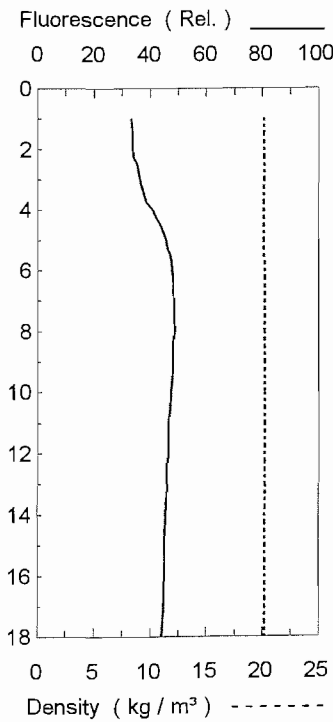
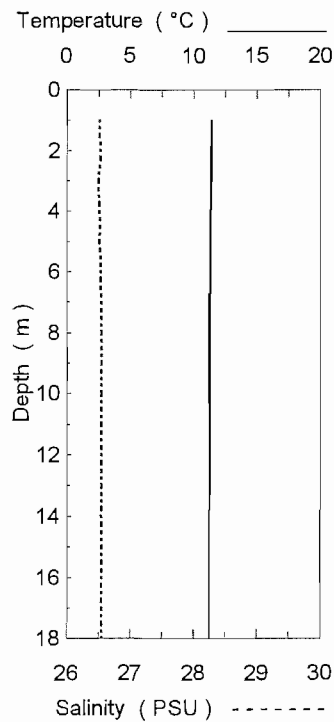
STATION 16



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	10.29	26.75	48	20.47
2	10.29	26.75	45	20.47
3	10.28	26.75	49	20.47
4	10.27	26.75	54	20.47
5	10.23	26.76	45	20.48
6	9.91	26.76	49	20.40
7	8.46	26.95	55	20.33
8	7.39	27.34	77	21.17
9	7.28	27.40	93	21.40
10	7.25	27.40	105	21.39
11	7.25	27.39	100	21.40
12	7.26	27.38	108	21.39

Survey 95-01

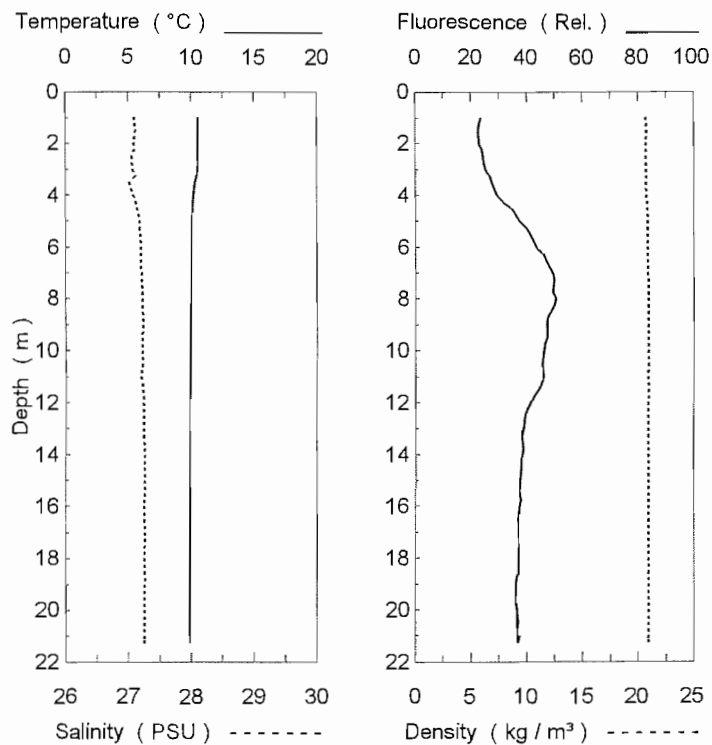
STATION 18



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	11.36	26.50	33	20.11
2	11.36	26.51	34	20.12
3	11.34	26.50	36	20.10
4	11.31	26.51	40	20.12
5	11.28	26.52	45	20.13
6	11.27	26.52	48	20.14
7	11.26	26.53	48	20.15
8	11.25	26.53	48	20.15
9	11.25	26.53	48	20.15
10	11.25	26.53	47	20.15
11	11.25	26.53	46	20.15
12	11.25	26.53	46	20.15
13	11.25	26.53	46	20.15
14	11.25	26.54	45	20.16
15	11.25	26.54	45	20.16
16	11.25	26.54	45	20.16
17	11.25	26.54	45	20.16
18	11.25	26.54	44	20.16

Survey 95-01

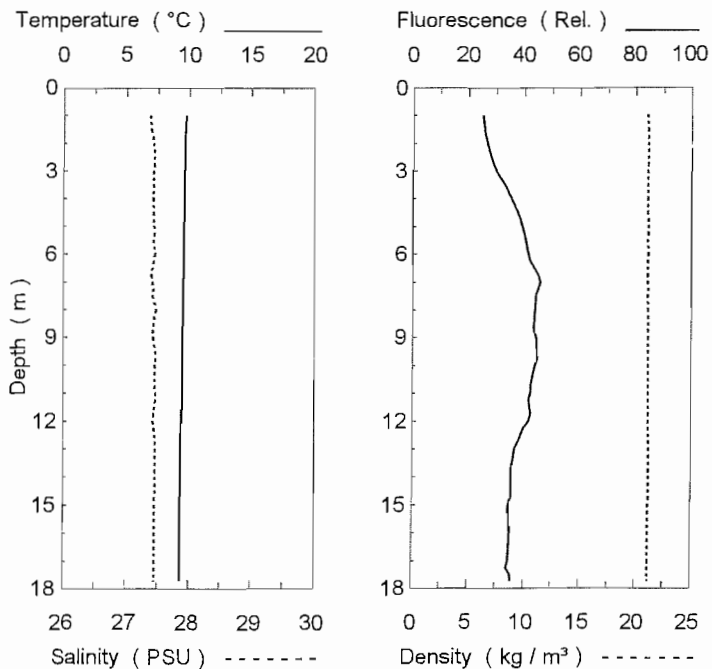
STATION 19



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	10.52	27.09	23	20.70
2	10.54	27.09	23	20.71
3	10.43	27.10	26	20.69
4	10.14	27.14	30	20.72
5	10.02	27.19	38	20.84
6	10.00	27.20	44	20.86
7	9.98	27.21	49	20.88
8	9.98	27.22	50	20.89
9	9.98	27.22	48	20.89
10	9.97	27.22	46	20.89
11	9.92	27.23	46	20.88
12	9.87	27.25	41	20.93
13	9.86	27.25	39	20.93
14	9.86	27.25	38	20.93
15	9.85	27.25	38	20.93
16	9.85	27.25	37	20.93
17	9.85	27.25	37	20.93
18	9.85	27.25	37	20.93
19	9.85	27.25	36	20.93
20	9.85	27.25	36	20.93
21	9.85	27.25	37	20.93

Survey 95-01

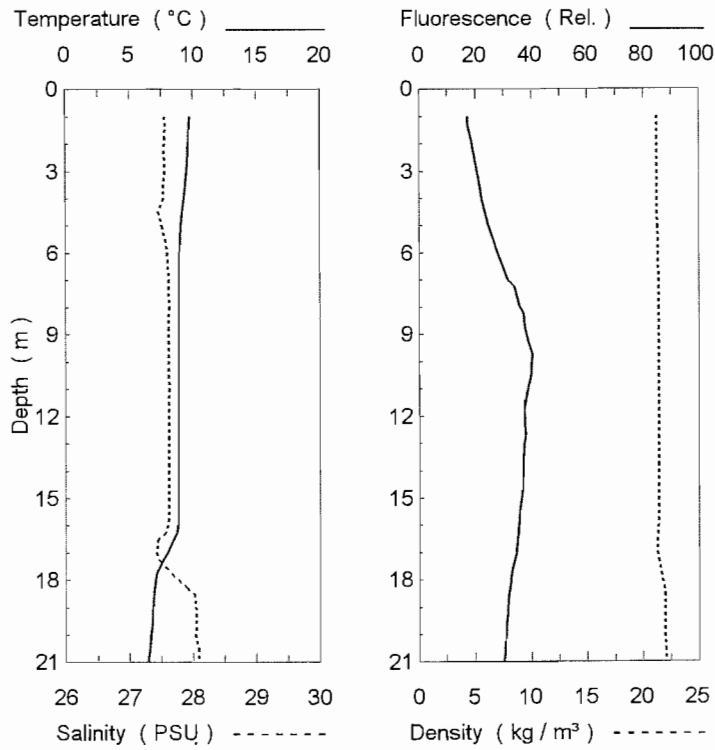
STATION 20



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	9.68	27.41	25	21.04
2	9.61	27.43	26	21.09
3	9.60	27.43	30	21.11
4	9.59	27.43	35	21.11
5	9.58	27.43	39	21.12
6	9.59	27.43	41	21.12
7	9.51	27.43	45	21.10
8	9.47	27.44	44	21.13
9	9.44	27.44	44	21.13
10	9.44	27.46	44	21.15
11	9.42	27.46	42	21.16
12	9.37	27.45	41	21.14
13	9.34	27.46	37	21.17
14	9.33	27.46	35	21.18
15	9.33	27.47	35	21.18
16	9.33	27.46	35	21.18
17	9.33	27.46	34	21.18
18	9.33	27.46	36	21.18

Survey 95-01

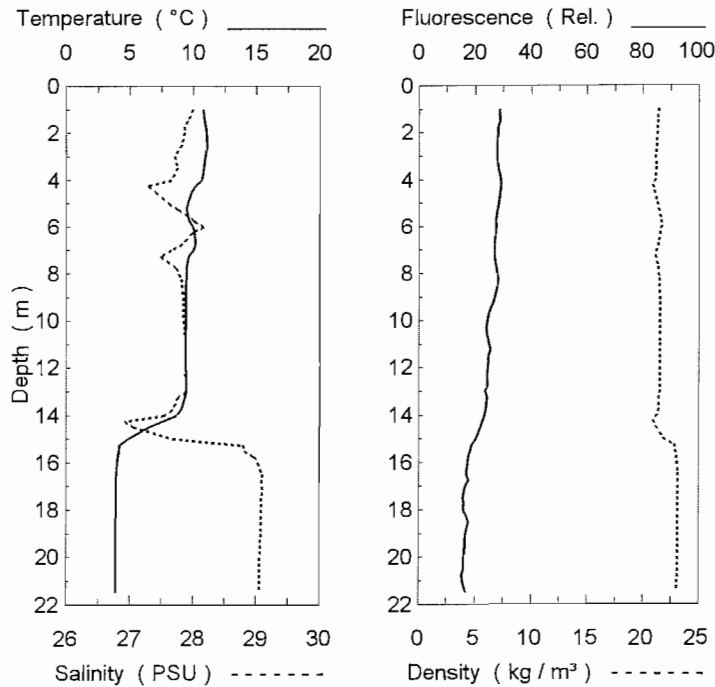
STATION 21



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	9.75	27.59	17	21.18
2	9.62	27.59	19	21.19
3	9.49	27.60	21	21.21
4	9.29	27.59	22	21.20
5	9.05	27.60	25	21.26
6	8.94	27.62	28	21.32
7	8.91	27.62	32	21.35
8	8.90	27.62	36	21.36
9	8.89	27.62	38	21.36
10	8.87	27.62	40	21.36
11	8.86	27.62	39	21.37
12	8.86	27.62	38	21.36
13	8.86	27.62	38	21.36
14	8.85	27.61	37	21.36
15	8.85	27.62	36	21.36
16	8.79	27.63	35	21.35
17	7.88	27.78	34	21.29
18	6.96	28.01	32	21.73
19	6.81	28.09	31	21.98
20	6.65	28.11	31	21.99
21	6.46	28.15	30	22.02
22	6.26	28.18	30	22.13
21	6.46	28.17	30	22.10

Survey 95-01

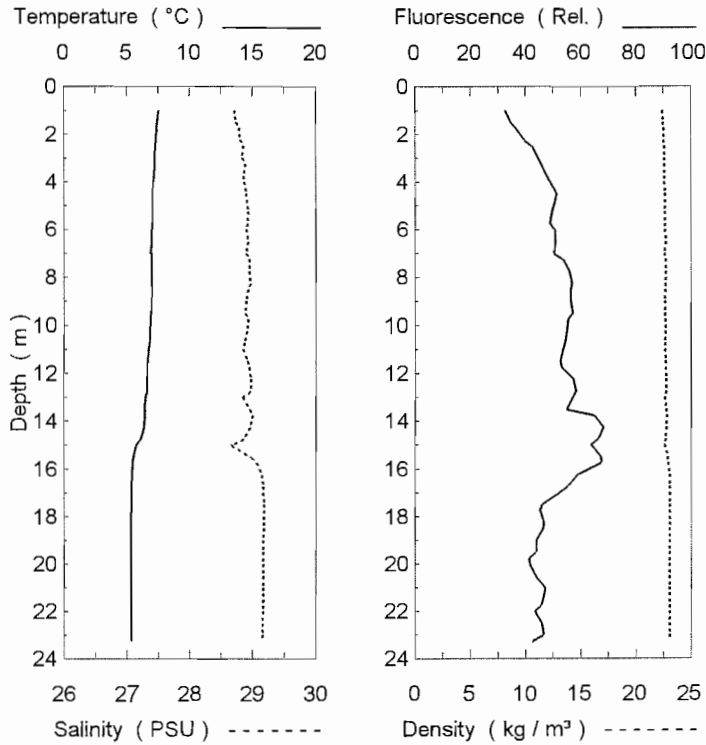
STATION 22



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	10.75	27.77	29	21.25
2	11.02	27.79	28	21.22
3	10.93	27.79	28	21.13
4	10.44	27.73	29	20.98
5	9.53	27.79	28	21.23
6	9.91	27.89	27	21.58
7	9.90	27.76	27	21.20
8	9.44	27.83	28	21.39
9	9.39	27.84	27	21.46
10	9.38	27.85	24	21.47
11	9.40	27.86	25	21.48
12	9.42	27.87	24	21.48
13	9.40	27.86	24	21.44
14	8.37	27.84	23	21.14
15	4.66	28.74	20	21.91
16	3.94	29.10	17	23.06
17	3.90	29.10	17	23.10
18	3.91	29.08	16	23.09
19	3.90	29.07	17	23.08
20	3.89	29.06	16	23.07
21	3.89	29.05	16	23.07
22	3.90	29.05	18	23.07

Survey 95-01

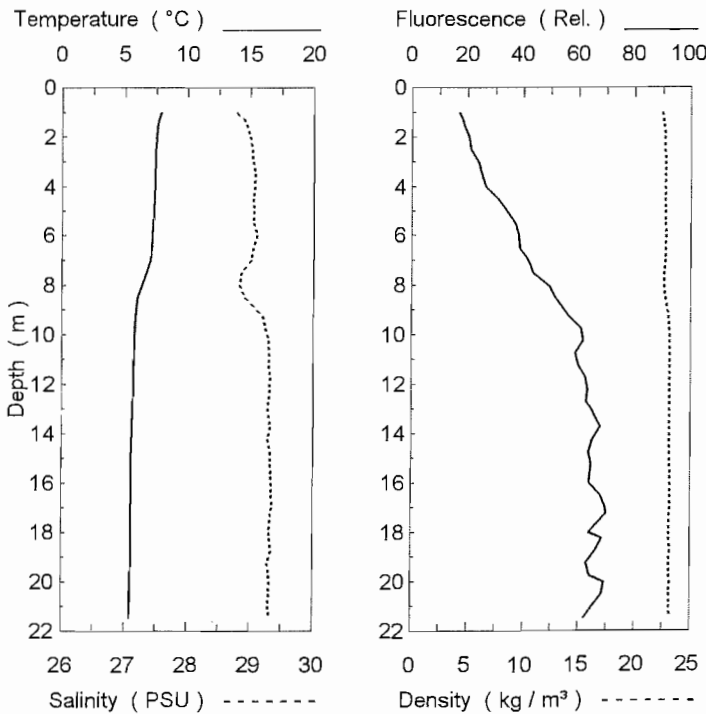
STATION 23



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	7.51	28.81	33	22.44
2	7.31	28.85	38	22.49
3	7.20	28.89	45	22.56
4	7.11	28.90	49	22.58
5	7.04	28.93	51	22.62
6	6.99	28.94	50	22.63
7	6.93	28.94	52	22.65
8	6.97	28.94	57	22.67
9	6.92	28.93	56	22.63
10	6.85	28.94	55	22.65
11	6.70	28.94	53	22.63
12	6.61	28.97	55	22.71
13	6.48	28.98	57	22.69
14	6.38	29.00	67	22.76
15	5.78	29.05	64	22.56
16	5.33	29.17	64	22.98
17	5.34	29.17	52	23.01
18	5.33	29.17	46	23.02
19	5.33	29.17	45	23.02
20	5.32	29.17	41	23.02
21	5.32	29.17	46	23.02
22	5.32	29.16	44	23.02
23	5.32	29.16	44	23.02

Survey 95-01

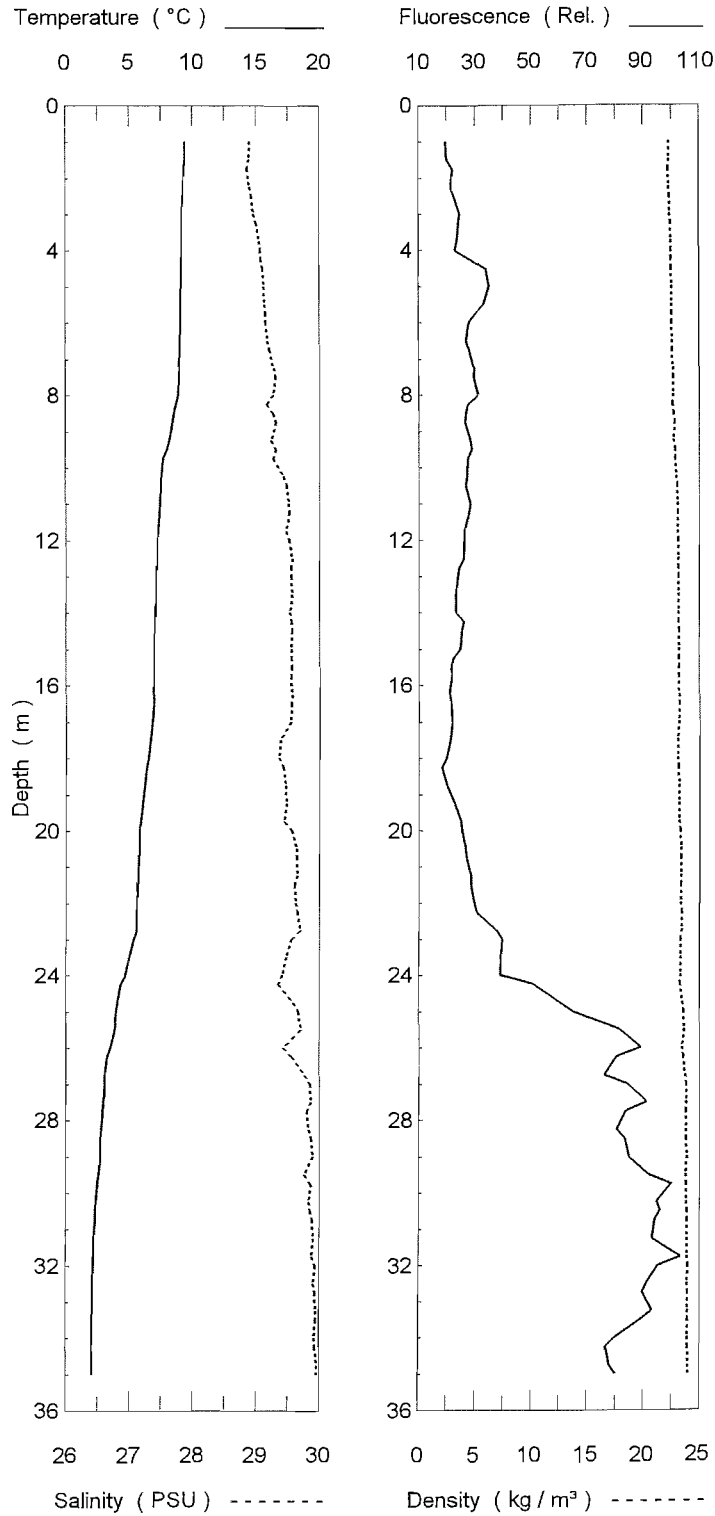
STATION 24



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	7.79	28.99	17	22.47
2	7.46	29.06	20	22.62
3	7.38	29.08	23	22.68
4	7.34	29.09	26	22.71
5	7.24	29.09	34	22.69
6	7.16	29.11	39	22.74
7	7.02	29.11	41	22.70
8	6.38	29.14	47	22.57
9	5.84	29.26	54	22.86
10	5.75	29.31	61	23.05
11	5.69	29.32	59	23.08
12	5.68	29.32	63	23.10
13	5.61	29.32	64	23.07
14	5.54	29.32	66	23.10
15	5.51	29.33	64	23.12
16	5.51	29.33	65	23.13
17	5.54	29.33	69	23.13
18	5.53	29.32	67	23.11
19	5.52	29.32	64	23.11
20	5.47	29.33	68	23.12
21	5.43	29.33	66	23.14

Survey 95-01

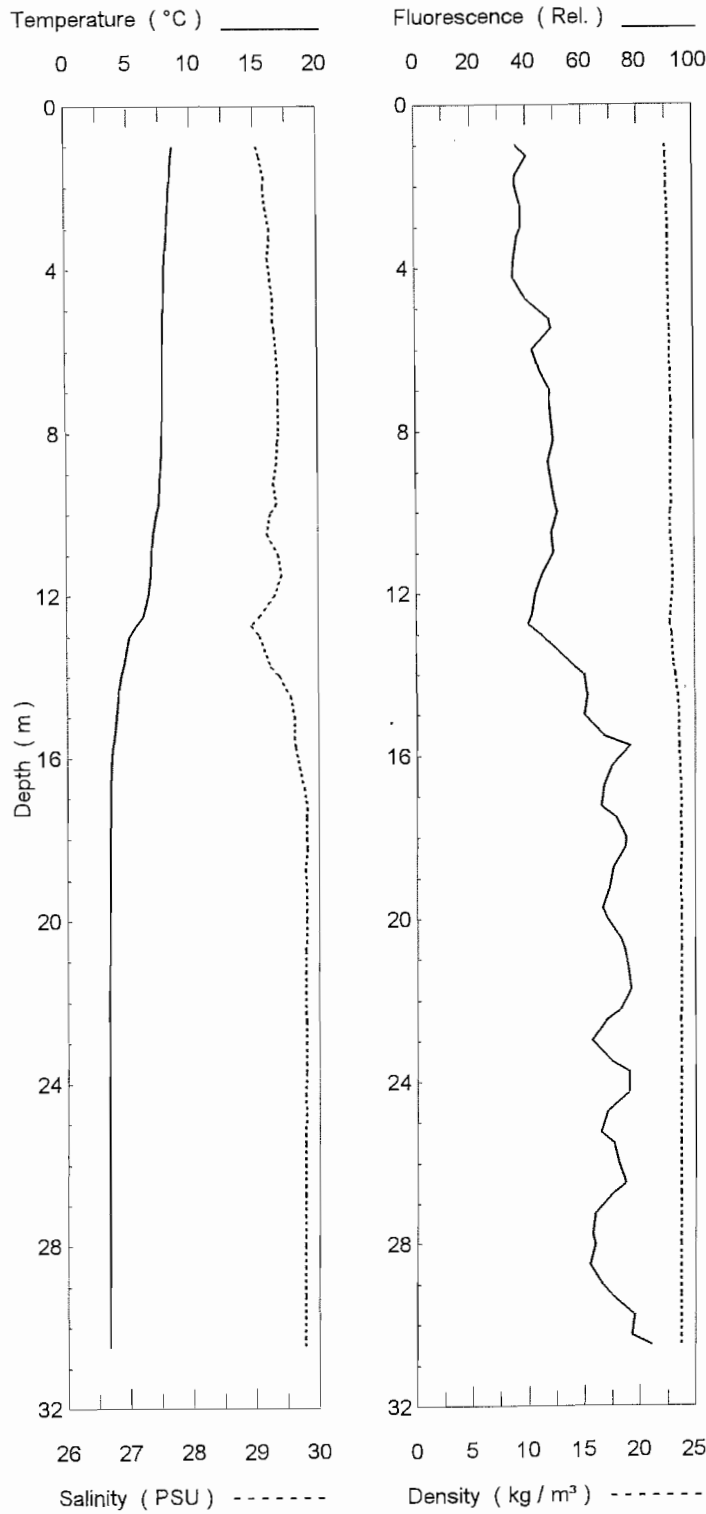
STATION 25



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	9.40	28.91	19	22.28
2	9.30	28.93	21	22.28
3	9.16	29.00	24	22.37
4	9.12	29.08	26	22.46
5	9.08	29.13	34	22.51
6	9.05	29.17	28	22.54
7	8.95	29.29	29	22.62
8	8.74	29.33	29	22.64
9	8.22	29.44	27	22.73
10	7.58	29.52	28	22.87
11	7.39	29.56	27	23.05
12	7.22	29.57	26	23.07
13	7.12	29.58	24	23.12
14	7.05	29.57	24	23.12
15	6.97	29.57	24	23.13
16	6.91	29.58	21	23.15
17	6.78	29.56	21	23.10
18	6.42	29.54	19	23.06
19	6.09	29.59	22	23.16
20	5.81	29.63	25	23.26
21	5.70	29.67	28	23.35
22	5.58	29.67	30	23.35
23	5.28	29.73	38	23.32
24	4.53	29.70	45	23.25
25	3.91	29.80	65	23.54
26	3.40	29.80	84	23.49
27	3.02	29.89	85	23.73
28	2.79	29.89	81	23.75
29	2.66	29.90	87	23.79
30	2.40	29.93	98	23.81
31	2.25	29.93	94	23.86
32	2.16	29.94	97	23.88
33	2.10	29.96	91	23.92
34	2.06	29.95	81	23.91
35	2.05	29.95	80	23.93

Survey 95-01

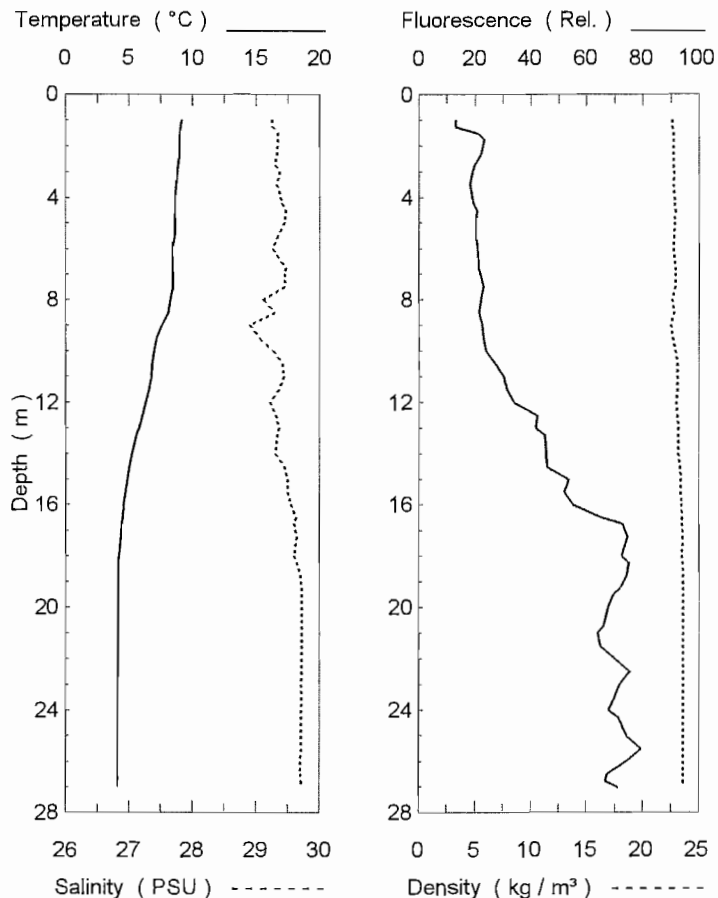
STATION 26



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	8.57	29.16	37	22.53
2	8.30	29.25	37	22.64
3	8.10	29.29	37	22.73
4	7.90	29.31	35	22.76
5	7.77	29.34	44	22.82
6	7.69	29.36	45	22.87
7	7.66	29.37	47	22.90
8	7.62	29.38	49	22.89
9	7.48	29.39	48	22.87
10	7.20	29.40	50	22.86
11	6.70	29.44	48	22.93
12	6.39	29.46	43	22.95
13	5.05	29.49	42	22.83
14	4.31	29.65	60	23.25
15	3.90	29.74	63	23.47
16	3.55	29.77	73	23.56
17	3.42	29.80	68	23.68
18	3.40	29.81	74	23.71
19	3.37	29.80	69	23.69
20	3.36	29.80	69	23.70
21	3.35	29.80	75	23.70
22	3.34	29.79	75	23.70
23	3.34	29.79	66	23.70
24	3.34	29.78	76	23.70
25	3.34	29.78	67	23.70
26	3.33	29.78	73	23.69
27	3.34	29.78	67	23.69
28	3.34	29.78	63	23.69
29	3.35	29.78	66	23.69
30	3.35	29.77	77	23.69
31	3.36	29.77	84	23.69

Survey 95-01

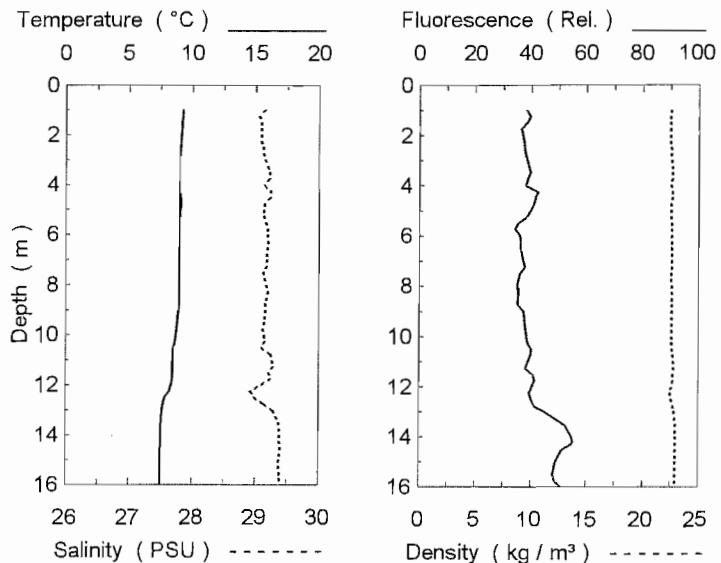
STATION 27



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	9.11	29.24	13	22.59
2	8.93	29.35	22	22.69
3	8.80	29.38	19	22.72
4	8.60	29.43	18	22.76
5	8.62	29.44	21	22.86
6	8.45	29.39	20	22.70
7	8.39	29.45	21	22.89
8	8.30	29.33	23	22.70
9	7.71	29.38	22	22.60
10	6.87	29.45	24	22.81
11	6.72	29.53	30	23.10
12	6.29	29.50	36	22.99
13	5.73	29.55	43	23.08
14	5.20	29.58	45	23.16
15	4.83	29.63	51	23.29
16	4.56	29.67	59	23.40
17	4.37	29.68	73	23.46
18	4.18	29.70	74	23.48
19	4.10	29.73	73	23.57
20	4.08	29.72	67	23.58
21	4.07	29.72	64	23.58
22	4.07	29.72	68	23.58
23	4.07	29.71	72	23.58
24	4.07	29.71	70	23.57
25	4.07	29.70	76	23.57
26	4.07	29.70	72	23.57
27	4.08	29.70	70	23.57

Survey 95-01

STATION 28

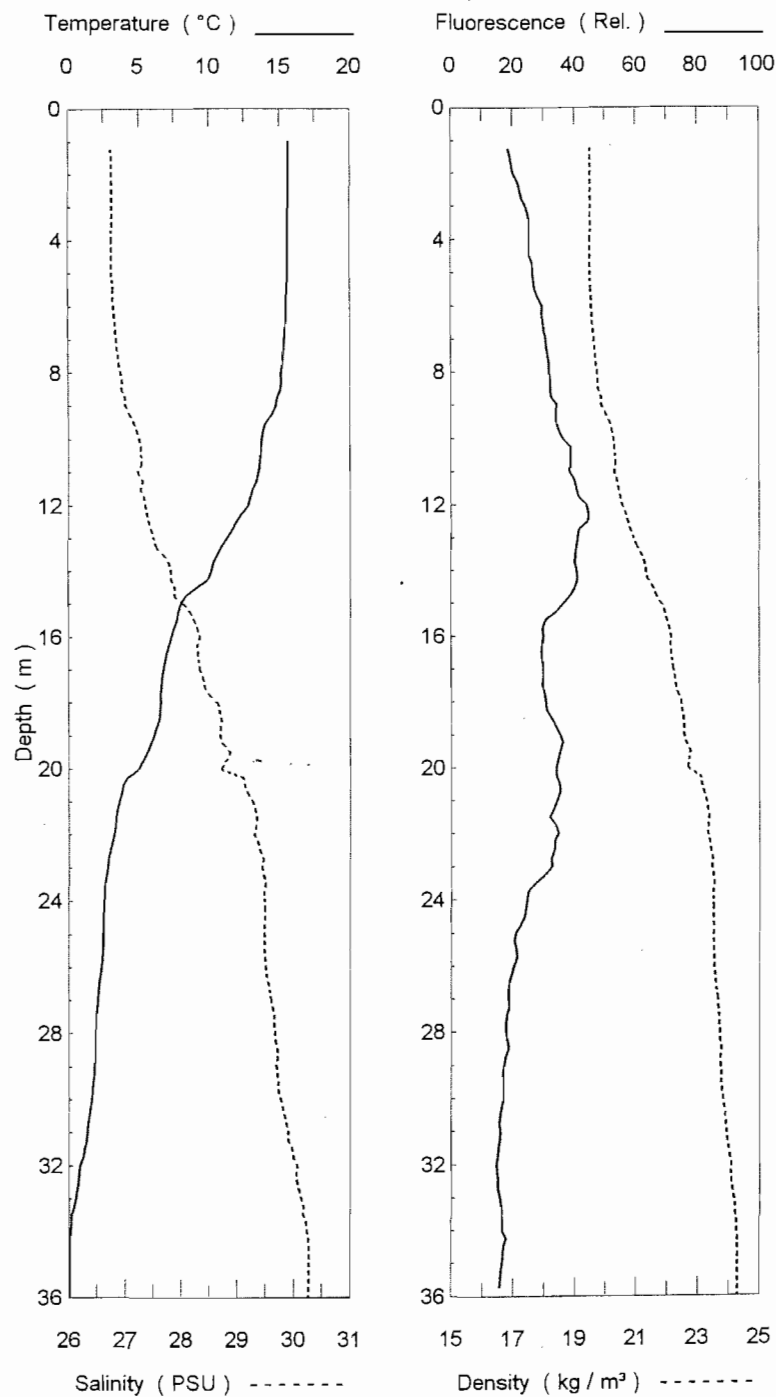


Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	9.18	29.28	38	22.62
2	9.10	29.10	38	22.45
3	8.95	29.17	38	22.55
4	8.97	29.20	40	22.60
5	9.00	29.16	39	22.53
6	8.95	29.18	36	22.58
7	8.99	29.17	37	22.56
8	8.94	29.18	35	22.57
9	8.87	29.19	37	22.56
10	8.66	29.20	38	22.56
11	8.45	29.25	40	22.67
12	8.17	29.23	40	22.57
13	7.59	29.36	45	22.81
14	7.52	29.39	55	22.93
15	7.49	29.39	49	22.93
16	7.48	29.38	51	22.95

Appendix 5.3 Survey 95-03 CTD profiles of temperature ($^{\circ}\text{C}$), salinity (PSU), density (kg/m^3) and fluorescence (relative).

Survey 95-03

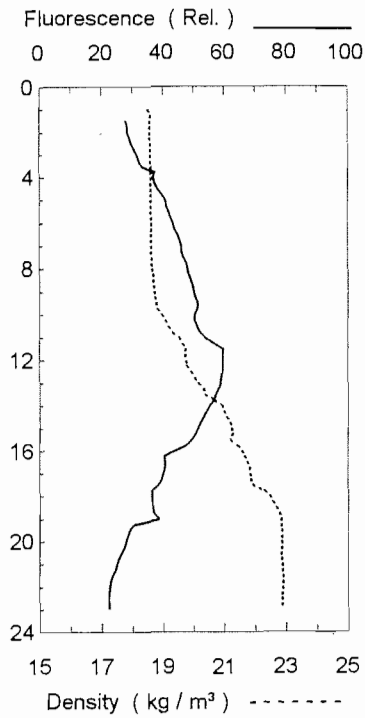
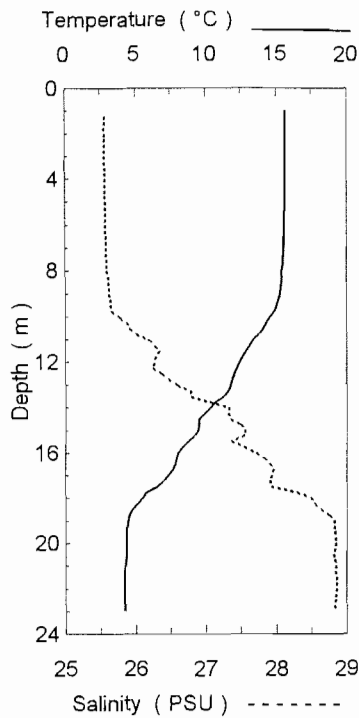
STATION 1



Depth (m)	Temp. ($^{\circ}\text{C}$)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m^3)
1	15.61	26.69		19.45
2	15.60	26.75	18	19.50
3	15.60	26.76	23	19.51
4	15.60	26.76	25	19.51
5	15.58	26.77	26	19.52
6	15.48	26.80	28	19.56
7	15.32	26.84	30	19.63
8	15.13	26.91	32	19.72
9	14.64	27.03	33	19.91
10	13.78	27.24	35	20.24
11	13.40	27.27	38	20.34
12	12.58	27.36	42	20.56
13	11.19	27.50	43	20.91
14	10.03	27.79	41	21.32
15	7.98	28.01	39	21.79
16	7.26	28.31	30	22.12
17	6.72	28.35	30	22.22
18	6.51	28.60	30	22.44
19	5.96	28.74	34	22.61
20	4.67	28.96	35	22.92
21	3.56	29.25	35	23.25
22	3.15	29.34	33	23.36
23	2.70	29.45	33	23.48
24	2.51	29.48	26	23.52
25	2.45	29.48	22	23.52
26	2.30	29.50	21	23.55
27	2.02	29.60	19	23.64
28	1.88	29.66	18	23.70
29	1.78	29.70	18	23.74
30	1.55	29.76	17	23.80
31	1.26	29.88	16	23.92
32	0.84	30.02	15	24.05
33	0.47	30.12	15	24.15
34	0.17	30.23	17	24.25
35	0.07	30.26	17	24.28
36	0.04	30.26	16	24.28

Survey 95-03

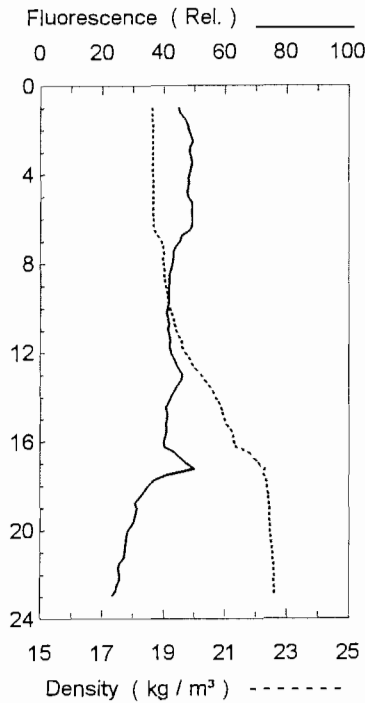
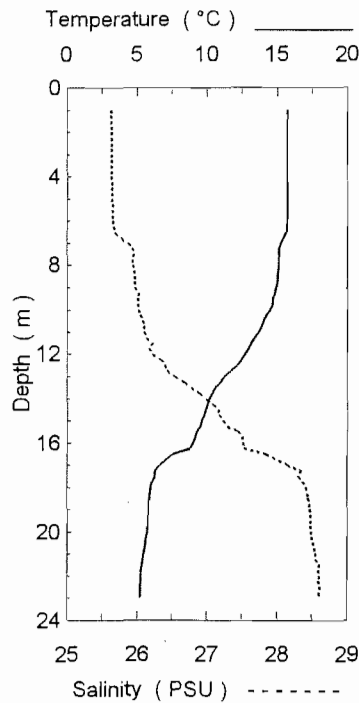
STATION 2



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	15.65	25.50		18.53
2	15.63	25.56	28	18.58
3	15.61	25.56	31	18.59
4	15.62	25.57	37	18.59
5	15.59	25.57	40	18.59
6	15.57	25.57	43	18.60
7	15.52	25.58	46	18.62
8	15.41	25.60	48	18.65
9	15.21	25.63	50	18.72
10	14.58	25.77	51	18.95
11	13.42	26.14	54	19.46
12	12.45	26.25	59	19.72
13	11.66	26.63	58	20.16
14	10.30	27.20	55	20.82
15	9.37	27.50	51	21.19
16	8.11	27.70	44	21.53
17	7.30	27.94	40	21.82
18	5.50	28.36	37	22.36
19	4.43	28.78	34	22.81
20	4.33	28.82	28	22.85
21	4.24	28.83	25	22.86
22	4.15	28.86	22	22.89
23	4.18	28.83	22	22.86

Survey 95-03

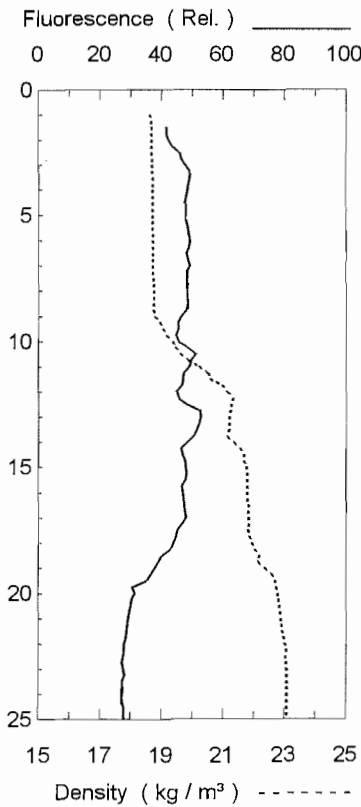
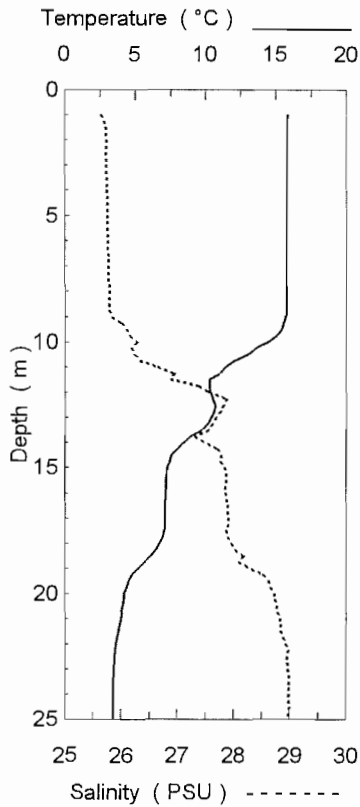
STATION 3



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	15.69	25.58	45	18.58
2	15.69	25.62	46	18.62
3	15.69	25.64	49	18.63
4	15.68	25.64	48	18.63
5	15.68	25.64	48	18.63
6	15.66	25.66	49	18.65
7	15.29	25.84	45	18.87
8	15.06	25.95	43	18.99
9	14.88	25.98	42	19.06
10	14.38	26.03	41	19.19
11	13.62	26.12	41	19.41
12	12.69	26.26	42	19.69
13	11.31	26.56	45	20.16
14	10.20	27.00	42	20.68
15	9.61	27.24	41	20.96
16	8.94	27.52	40	21.27
17	6.63	28.14	46	22.06
18	6.02	28.38	35	22.33
19	5.78	28.46	31	22.42
20	5.67	28.48	29	22.44
21	5.44	28.55	27	22.52
22	5.25	28.59	25	22.57
23	5.17	28.61	24	22.59

Survey 95-03

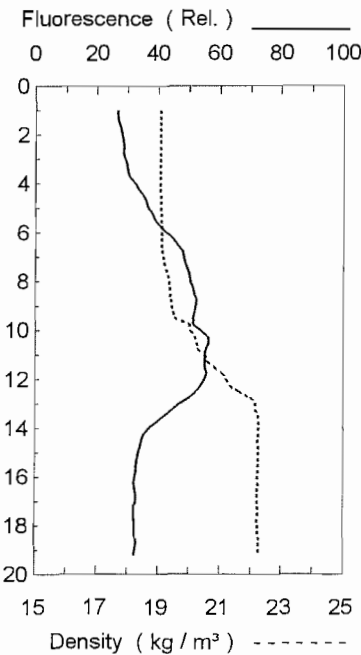
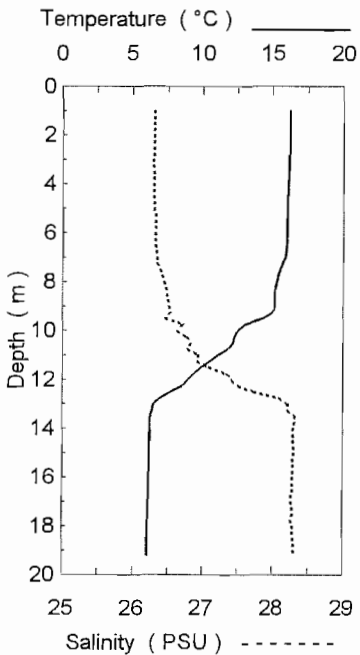
STATION 4



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.79	25.57		18.55
2	15.77	25.71	41	18.67
3	15.77	25.73	48	18.68
4	15.76	25.74	48	18.69
5	15.75	25.74	48	18.69
6	15.73	25.75	49	18.71
7	15.72	25.77	48	18.72
8	15.71	25.77	48	18.73
9	15.64	25.88	47	18.82
10	14.43	26.18	46	19.30
11	11.47	26.60	49	20.17
12	10.50	27.58	46	21.09
13	10.43	27.72	53	21.21
14	8.56	27.60	49	21.39
15	7.36	27.81	48	21.72
16	7.13	27.86	47	21.79
17	7.07	27.88	47	21.81
18	6.59	27.99	43	21.95
19	5.21	28.32	38	22.36
20	4.23	28.70	31	22.76
21	3.92	28.81	29	22.87
22	3.58	28.91	28	22.98
23	3.43	28.97	27	23.04
24	3.39	28.98	27	23.05
25	3.38	28.98	28	23.06

Survey 95-03

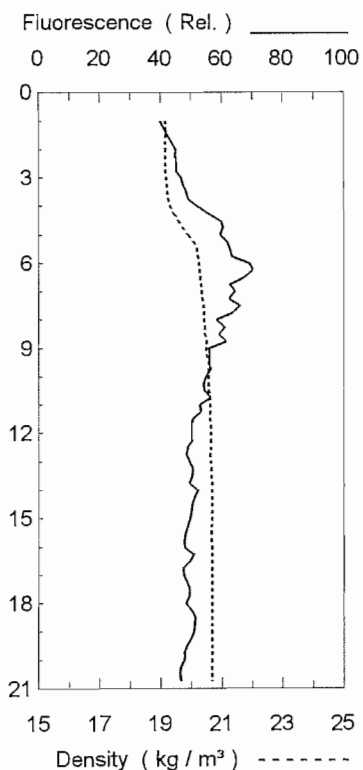
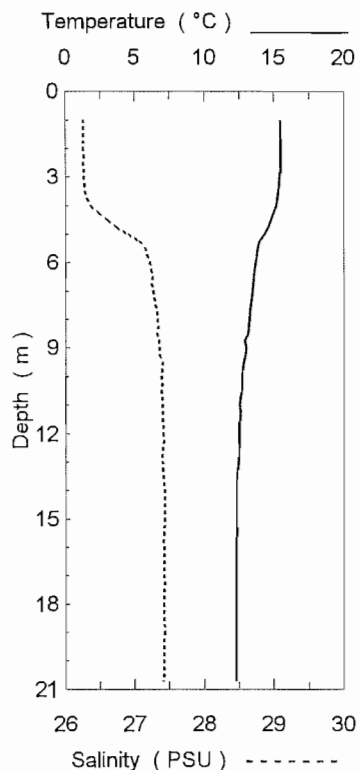
STATION 5



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.13	26.26	26	19.01
2	16.13	26.29	27	19.04
3	16.11	26.29	29	19.04
4	16.05	26.29	32	19.05
5	16.01	26.30	37	19.07
6	15.97	26.31	42	19.08
7	15.80	26.33	48	19.14
8	15.29	26.44	50	19.32
9	15.02	26.50	52	19.42
10	12.76	26.68	54	20.00
11	11.13	26.90	55	20.45
12	8.90	27.43	55	21.21
13	6.70	28.12	47	22.04
14	6.20	28.30	37	22.24
15	6.16	28.29	34	22.24
16	6.15	28.28	32	22.23
17	6.12	28.27	32	22.22
18	6.06	28.28	32	22.24
19	6.01	28.29	32	22.25

Survey 95-03

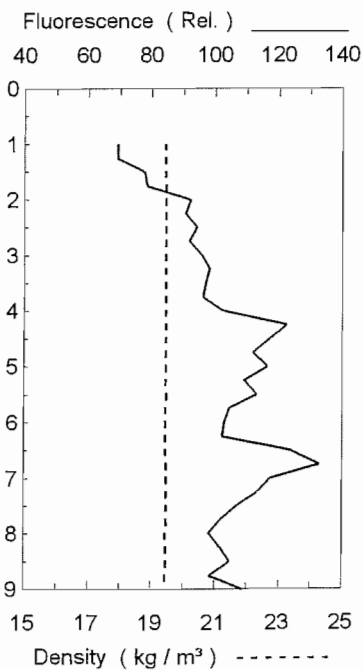
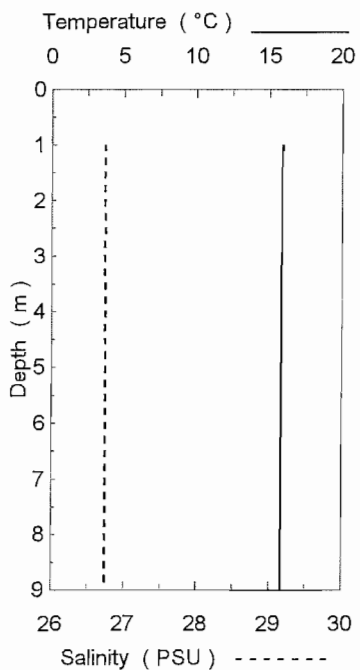
STATION 6



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	15.45	26.19	35	19.10
2	15.42	26.25	43	19.15
3	15.37	26.27	46	19.17
4	15.07	26.40	53	19.34
5	14.26	26.90	61	19.89
6	13.65	27.20	67	20.24
7	13.42	27.26	63	20.33
8	13.19	27.31	62	20.41
9	12.94	27.35	57	20.49
10	12.69	27.38	55	20.56
11	12.54	27.39	54	20.59
12	12.47	27.40	50	20.61
13	12.41	27.39	49	20.61
14	12.29	27.42	50	20.66
15	12.28	27.42	49	20.66
16	12.28	27.41	49	20.66
17	12.26	27.42	48	20.66
18	12.26	27.42	49	20.66
19	12.27	27.42	51	20.66
20	12.27	27.41	47	20.66
21	12.26	27.41	46	20.66

Survey 95-03

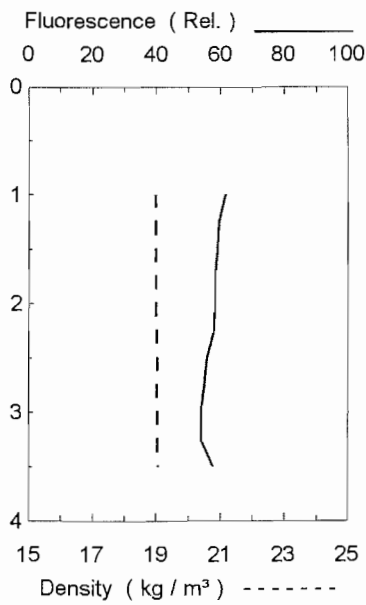
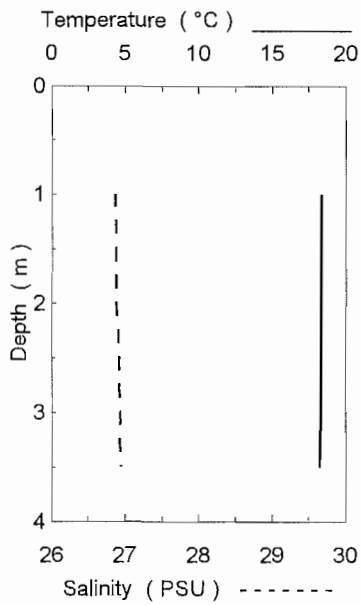
STATION 7



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	15.88	26.73	68	19.42
2	15.85	26.73	88	19.43
3	15.83	26.73	95	19.43
4	15.81	26.73	109	19.44
5	15.80	26.73	112	19.44
6	15.80	26.74	104	19.45
7	15.80	26.74	124	19.45
8	15.81	26.74	101	19.45
9	15.80	26.74	107	19.45

Survey 95-03

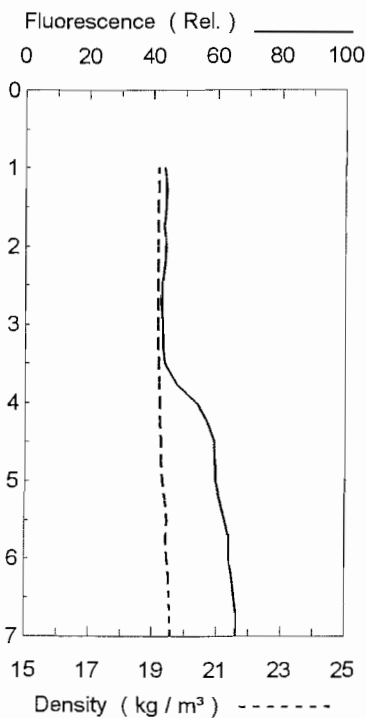
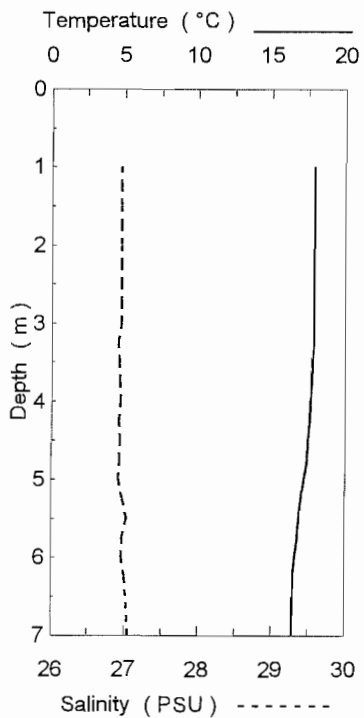
STATION 8



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	18.42	26.85	61	18.95
2	18.34	26.89	58	18.99
3	18.30	26.92	54	19.03
4	18.17	26.97	61	19.09

Survey 95-03

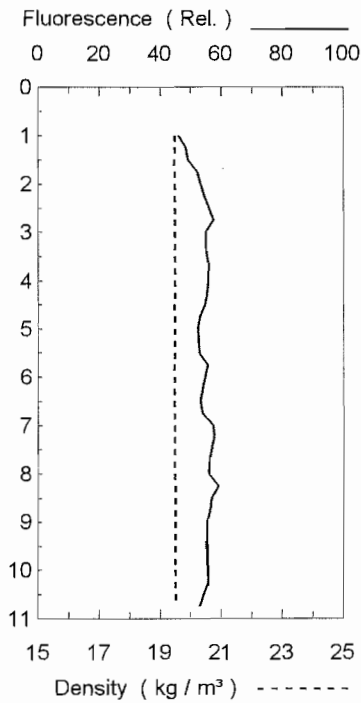
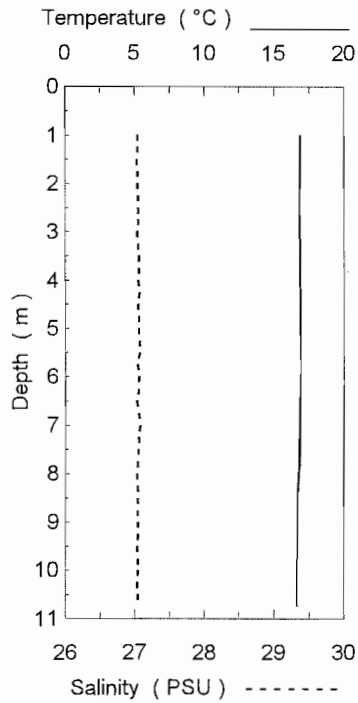
STATION 9



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	17.89	26.95	44	19.14
2	17.89	26.95	43	19.14
3	17.87	26.94	43	19.14
4	17.63	26.93	52	19.19
5	17.18	26.94	60	19.30
6	16.63	26.98	64	19.45
7	16.37	27.05	66	19.56

Survey 95-03

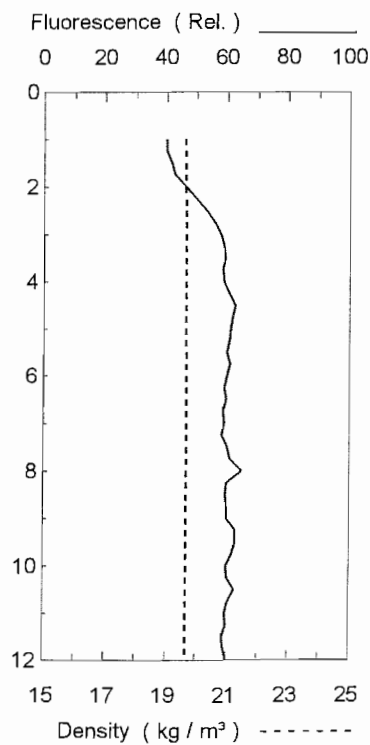
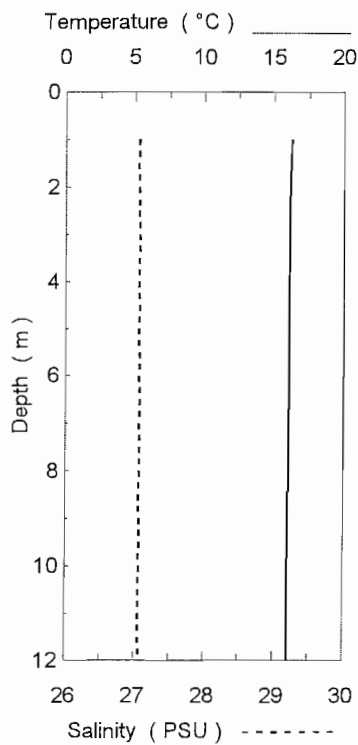
STATION 10



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.81	27.03	46	19.45
2	16.78	27.04	53	19.47
3	16.81	27.04	56	19.46
4	16.83	27.06	56	19.47
5	16.86	27.06	53	19.46
6	16.89	27.05	54	19.45
7	16.82	27.05	56	19.47
8	16.73	27.04	57	19.47
9	16.65	27.03	56	19.49
10	16.62	27.03	55	19.50
11	16.59	27.03	52	19.50

Survey 95-03

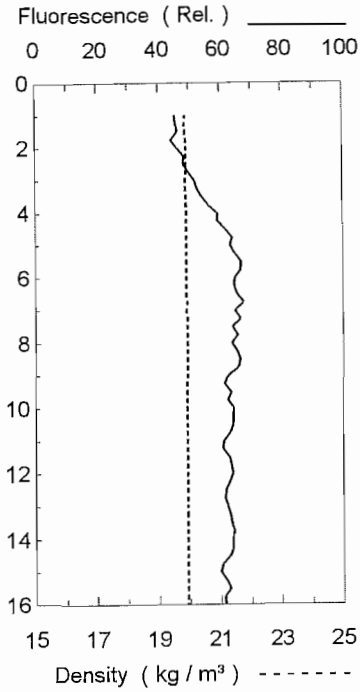
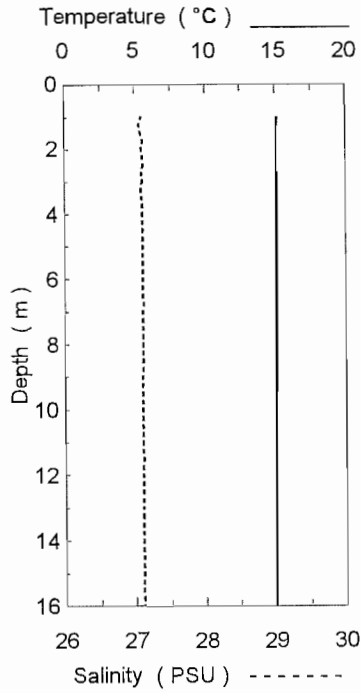
STATION 11



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.23	27.05	40	19.60
2	16.12	27.06	47	19.62
3	16.09	27.06	57	19.63
4	16.06	27.06	60	19.64
5	16.04	27.06	61	19.64
6	16.02	27.06	60	19.65
7	16.02	27.06	59	19.65
8	16.02	27.06	60	19.65
9	16.01	27.06	61	19.65
10	16.01	27.06	61	19.65
11	16.00	27.06	60	19.65
12	16.00	27.06	59	19.65

Survey 95-03

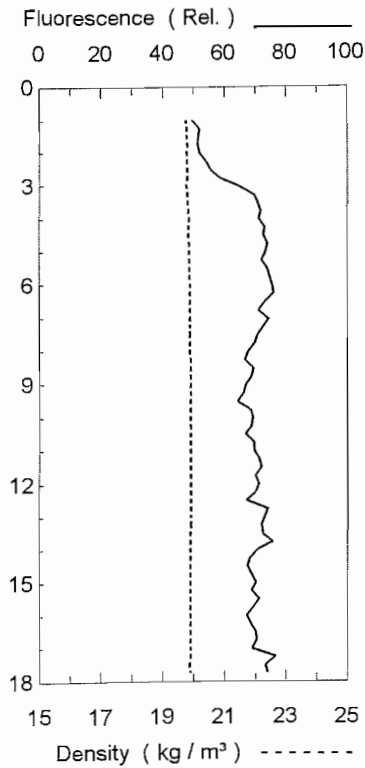
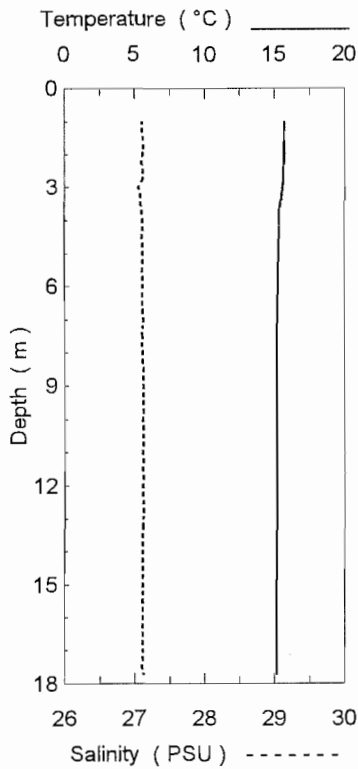
STATION 12



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.10	26.93	45	19.74
2	15.03	27.08	46	19.87
3	15.06	27.09	51	19.87
4	15.02	27.10	58	19.89
5	15.00	27.10	64	19.89
6	15.00	27.10	65	19.89
7	14.99	27.10	66	19.90
8	14.98	27.10	65	19.90
9	14.97	27.10	63	19.90
10	14.97	27.10	63	19.90
11	14.97	27.10	62	19.90
12	14.97	27.10	63	19.90
13	14.96	27.10	62	19.90
14	14.95	27.10	64	19.91
15	14.94	27.10	61	19.91
16	14.94	27.10	61	19.91

Survey 95-03

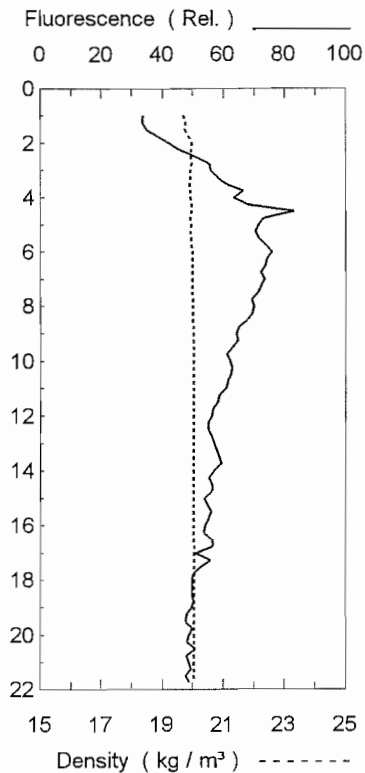
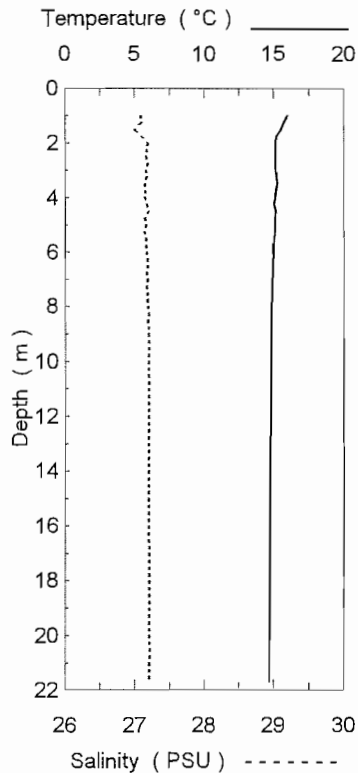
STATION 13



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.68	27.10	50	19.75
2	15.64	27.11	53	19.76
3	15.51	27.07	64	19.76
4	15.31	27.10	72	19.83
5	15.26	27.10	73	19.84
6	15.21	27.11	75	19.85
7	15.16	27.11	72	19.87
8	15.13	27.11	68	19.87
9	15.12	27.11	67	19.88
10	15.12	27.11	68	19.88
11	15.12	27.11	70	19.88
12	15.11	27.11	70	19.88
13	15.12	27.11	73	19.88
14	15.12	27.11	72	19.88
15	15.11	27.11	69	19.88
16	15.11	27.11	69	19.88
17	15.11	27.11	72	19.88
18	15.11	27.11	74	19.88

Survey 95-03

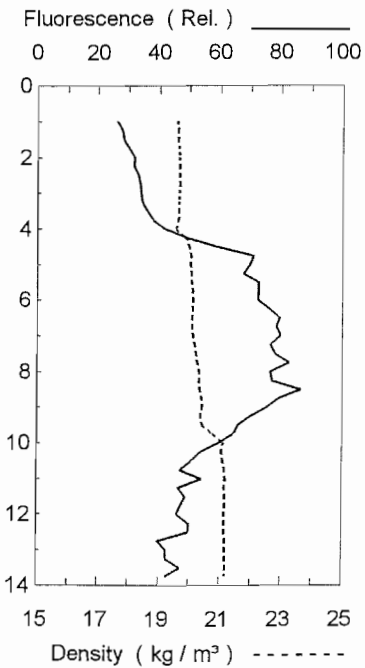
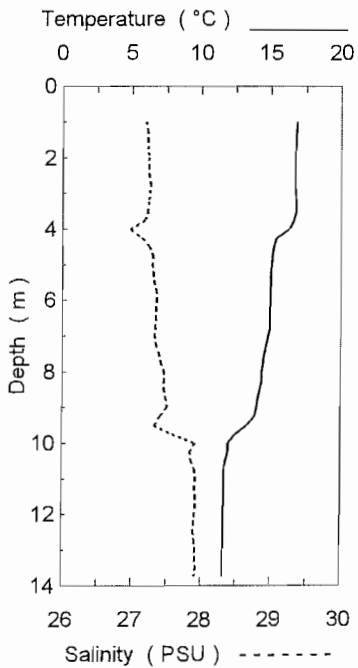
STATION 14



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	15.87	27.08	33	19.69
2	15.15	27.13	43	19.88
3	15.14	27.17	56	19.91
4	15.07	27.15	67	19.91
5	15.06	27.15	73	19.92
6	14.92	27.16	74	19.96
7	14.89	27.17	73	19.97
8	14.83	27.18	69	19.99
9	14.78	27.19	65	20.01
10	14.77	27.19	62	20.01
11	14.76	27.19	60	20.01
12	14.75	27.19	56	20.01
13	14.75	27.19	57	20.01
14	14.75	27.19	57	20.01
15	14.75	27.19	55	20.01
16	14.73	27.19	55	20.02
17	14.71	27.20	54	20.03
18	14.70	27.20	50	20.03
19	14.68	27.20	49	20.04
20	14.68	27.20	48	20.04
21	14.67	27.21	49	20.04
22	14.67	27.20	48	20.04

Survey 95-03

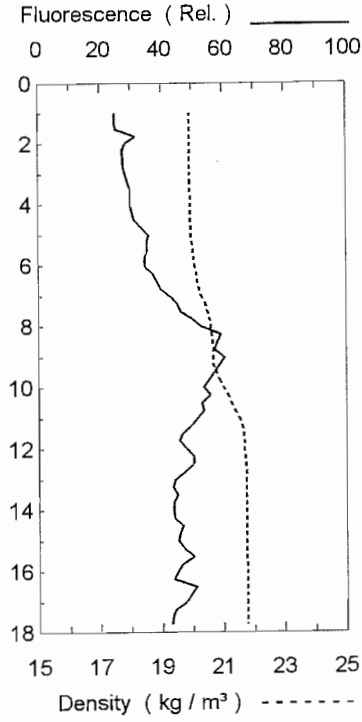
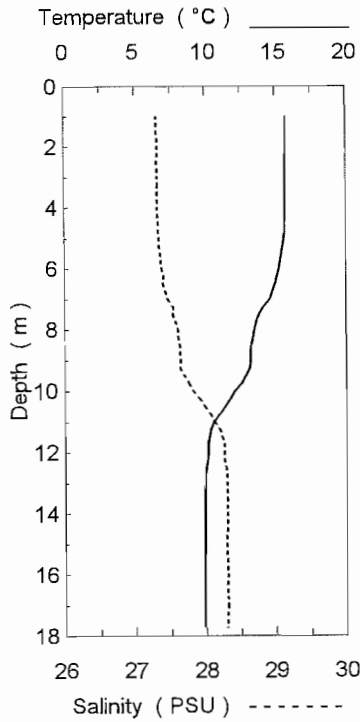
STATION 15



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	16.83	27.08	23	19.48
2	16.70	27.20	30	19.61
3	16.72	27.24	34	19.63
4	16.16	27.11	42	19.65
5	15.07	27.29	68	20.02
6	14.96	27.34	74	20.08
7	14.81	27.33	79	20.11
8	14.38	27.43	80	20.27
9	13.97	27.48	78	20.39
10	12.26	27.67	59	20.85
11	11.69	27.90	49	21.14
12	11.64	27.91	48	21.15
13	11.58	27.92	43	21.17
14	11.60	27.92	43	21.16

Survey 95-03

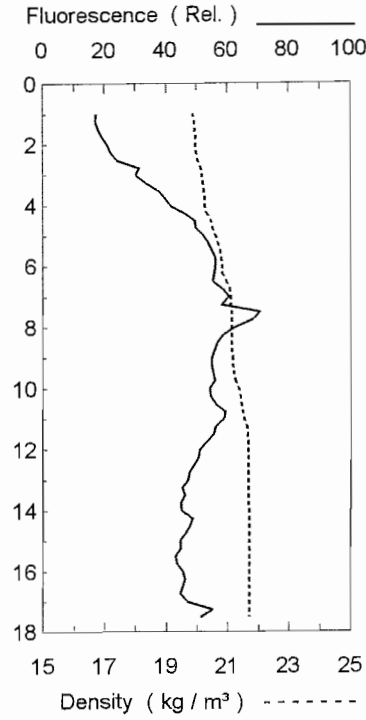
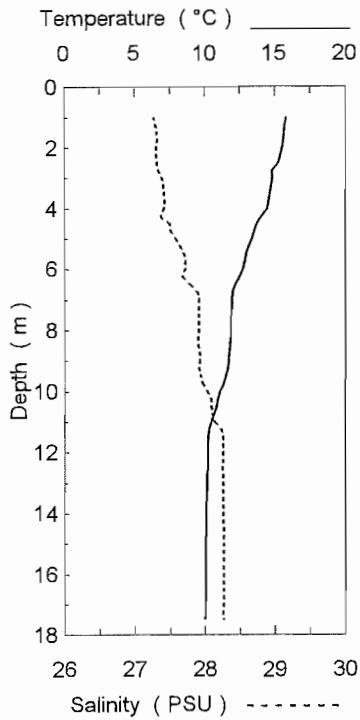
STATION 16



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	15.77	27.24	25	19.84
2	15.74	27.31	27	19.90
3	15.71	27.32	28	19.91
4	15.68	27.32	30	19.92
5	15.56	27.34	34	19.96
6	15.20	27.38	36	20.07
7	14.53	27.46	41	20.26
8	13.53	27.59	54	20.56
9	13.17	27.64	59	20.67
10	12.12	27.83	55	21.01
11	10.63	28.13	51	21.49
12	10.15	28.25	48	21.67
13	9.96	28.30	46	21.73
14	9.92	28.30	44	21.74
15	9.91	28.29	46	21.73
16	9.87	28.30	46	21.75
17	9.86	28.30	48	21.75
18	9.86	28.30	41	21.75

Survey 95-03

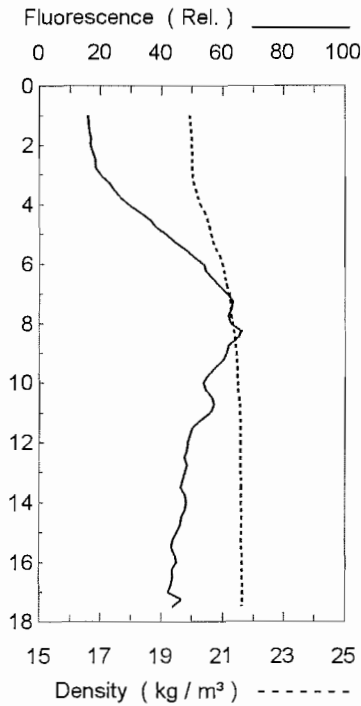
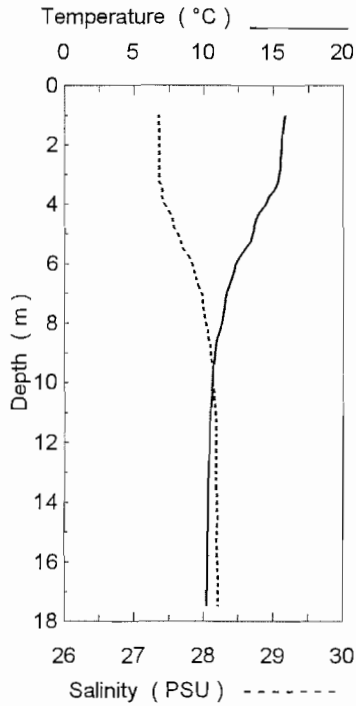
STATION 17



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	15.82	25.46	15	18.47
2	15.48	27.38	21	20.01
3	14.83	27.37	30	20.13
4	14.29	27.40	43	20.26
5	13.31	27.59	52	20.60
6	12.65	27.70	56	20.81
7	11.93	27.89	59	21.08
8	11.83	27.90	62	21.12
9	11.67	27.91	55	21.15
10	11.08	28.02	55	21.33
11	10.45	28.16	58	21.54
12	10.13	28.25	51	21.67
13	10.10	28.25	47	21.67
14	10.06	28.25	46	21.68
15	10.02	28.26	45	21.69
16	10.01	28.26	45	21.69
17	9.99	28.26	49	21.69
18	9.98	28.26	52	21.70

Survey 95-03

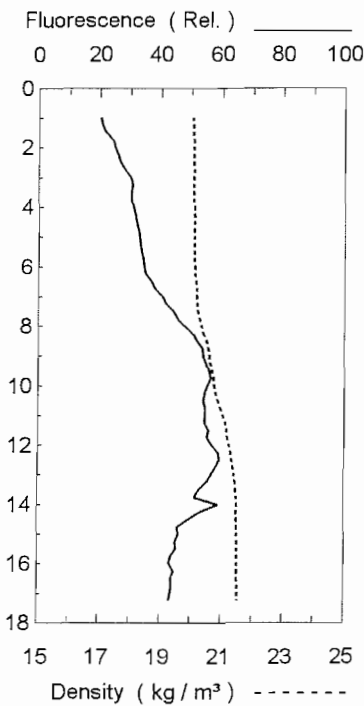
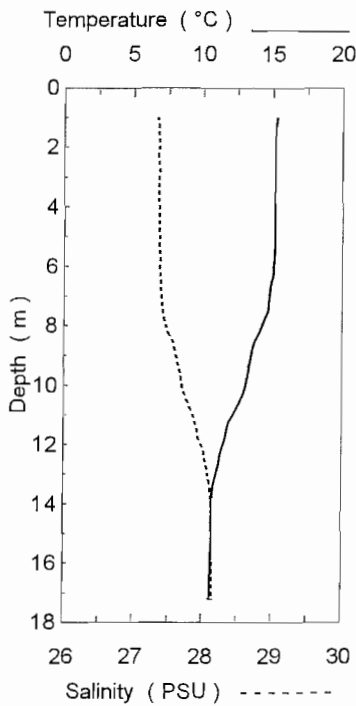
STATION 18



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.80	27.35	16	19.92
2	15.57	27.36	17	19.97
3	15.35	27.36	21	20.02
4	14.34	27.45	30	20.29
5	13.41	27.62	42	20.61
6	12.38	27.81	53	20.94
7	11.66	27.96	61	21.19
8	11.26	28.03	64	21.31
9	10.85	28.11	61	21.44
10	10.65	28.14	54	21.50
11	10.50	28.17	55	21.54
12	10.42	28.18	48	21.56
13	10.37	28.17	47	21.57
14	10.31	28.19	47	21.59
15	10.29	28.19	45	21.60
16	10.25	28.20	44	21.61
17	10.22	28.20	44	21.62

Survey 95-03

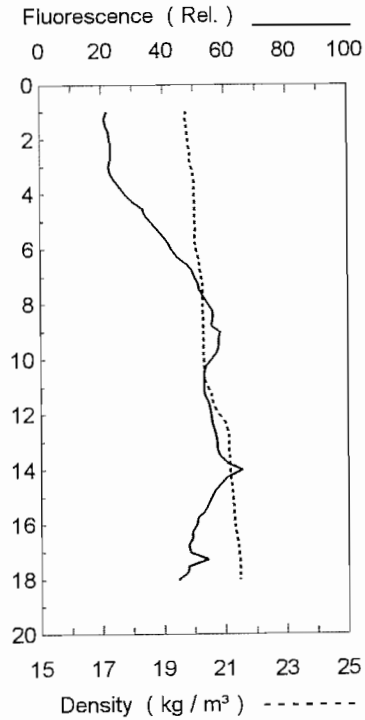
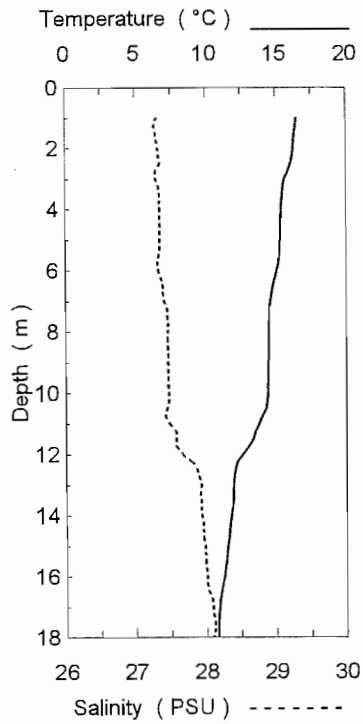
STATION 19



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.35	27.21	20	19.91
2	15.15	27.36	25	20.06
3	15.14	27.35	29	20.06
4	15.12	27.36	31	20.06
5	15.11	27.36	33	20.07
6	15.04	27.37	35	20.09
7	14.75	27.40	40	20.17
8	14.21	27.47	48	20.34
9	13.45	27.61	54	20.59
10	13.02	27.70	55	20.74
11	12.15	27.85	55	21.01
12	11.45	27.98	57	21.24
13	10.97	28.07	56	21.39
14	10.69	28.13	53	21.48
15	10.66	28.13	45	21.49
16	10.60	28.14	44	21.50
17	10.54	28.14	43	21.52

Survey 95-03

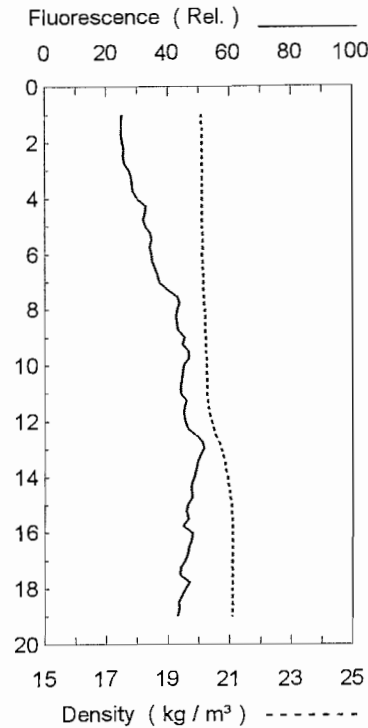
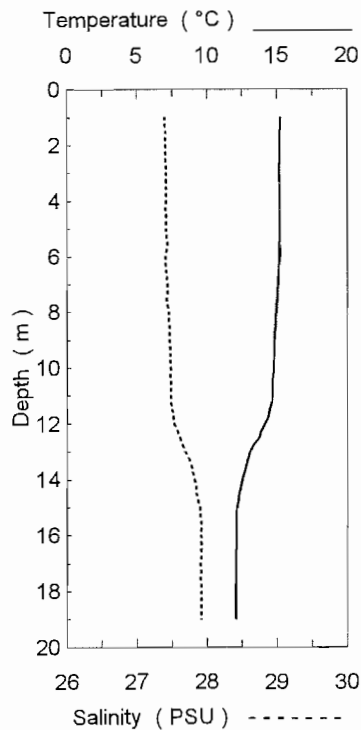
STATION 20



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.53	27.27	21	19.69
2	16.20	27.32	22	19.81
3	15.68	27.31	23	19.91
4	15.38	27.34	28	20.00
5	15.27	27.34	36	20.02
6	15.02	27.34	43	20.07
7	14.57	27.42	50	20.22
8	14.47	27.45	55	20.27
9	14.43	27.46	57	20.28
10	14.36	27.46	56	20.30
11	13.72	27.50	53	20.46
12	12.60	27.68	55	20.80
13	11.91	27.91	57	21.11
14	11.75	27.93	61	21.15
15	11.51	27.97	55	21.22
16	11.23	28.00	50	21.29
17	10.89	28.08	50	21.41
18	10.79	28.11	46	21.45

Survey 95-03

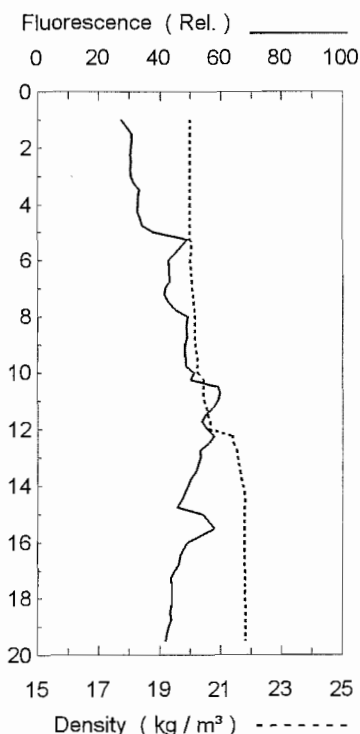
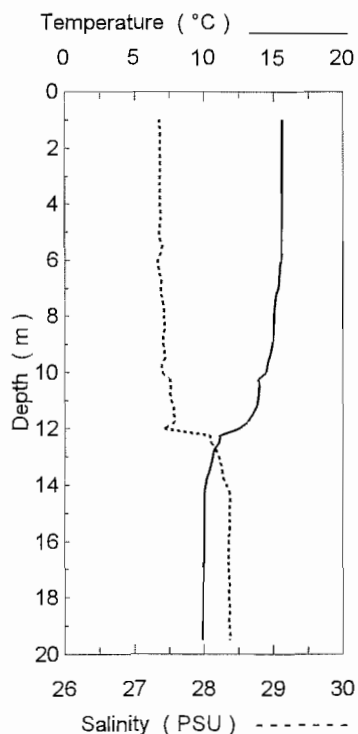
STATION 21



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.20	27.32	25	20.02
2	15.17	27.40	25	20.09
3	15.14	27.41	27	20.10
4	15.17	27.41	30	20.09
5	15.14	27.41	33	20.10
6	15.14	27.41	34	20.10
7	15.03	27.42	38	20.13
8	14.89	27.44	43	20.18
9	14.78	27.46	45	20.21
10	14.69	27.47	46	20.24
11	14.58	27.48	45	20.27
12	14.10	27.53	46	20.40
13	13.15	27.69	51	20.71
14	12.53	27.81	48	20.92
15	12.16	27.88	47	21.04
16	12.07	27.91	47	21.08
17	12.05	27.91	45	21.08
18	12.03	27.91	46	21.08
19	12.01	27.91	43	21.09

Survey 95-03

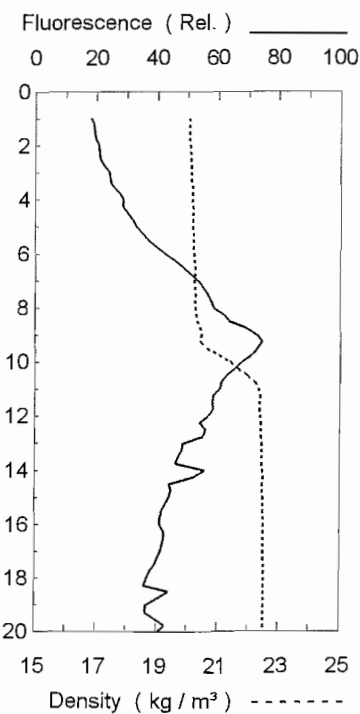
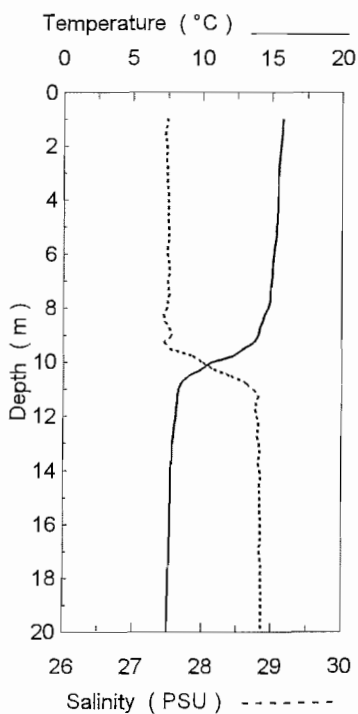
STATION 22



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.62	26.48	27	19.29
2	15.60	27.37	30	19.97
3	15.60	27.36	31	19.97
4	15.59	27.37	33	19.97
5	15.56	27.37	40	19.98
6	15.48	27.35	43	19.98
7	15.27	27.38	42	20.05
8	15.03	27.42	47	20.13
9	14.90	27.42	48	20.16
10	14.41	27.41	50	20.25
11	13.84	27.54	59	20.46
12	12.30	27.63	56	20.82
13	10.65	28.19	53	21.54
14	10.14	28.32	49	21.72
15	9.99	28.36	52	21.78
16	9.99	28.36	51	21.77
17	9.97	28.35	45	21.77
18	9.93	28.36	44	21.78
19	9.89	28.36	43	21.79
20	9.89	28.36	41	21.79

Survey 95-03

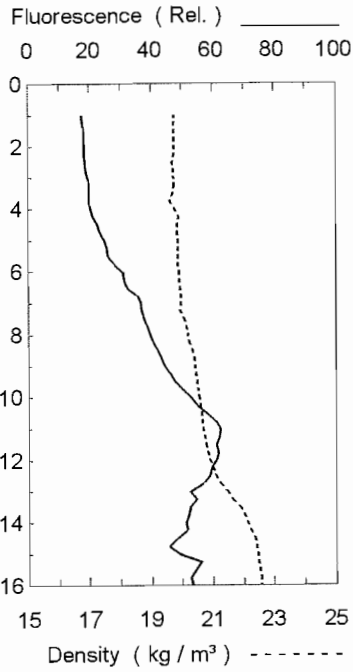
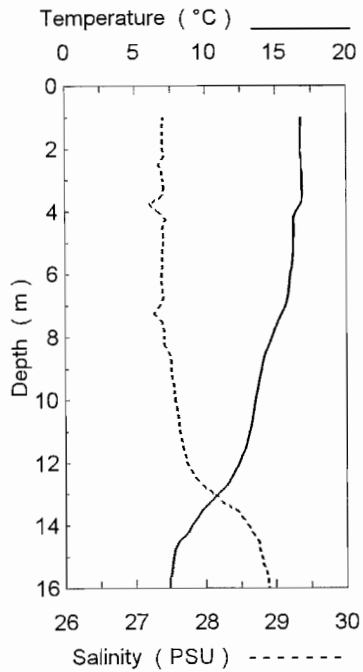
STATION 23



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.72	27.48	18	20.03
2	15.58	27.47	20	20.06
3	15.44	27.49	24	20.10
4	15.36	27.49	28	20.12
5	15.27	27.50	33	20.15
6	15.09	27.49	43	20.18
7	14.93	27.50	53	20.21
8	14.64	27.48	59	20.26
9	13.93	27.49	72	20.41
10	10.94	27.95	69	21.30
11	8.26	28.71	59	22.30
12	8.06	28.78	57	22.38
13	7.84	28.80	51	22.43
14	7.73	28.82	50	22.46
15	7.67	28.83	44	22.48
16	7.65	28.83	41	22.48
17	7.61	28.83	41	22.48
18	7.53	28.84	38	22.51
19	7.50	28.85	37	22.51
20	7.49	28.85	42	22.52

Survey 95-03

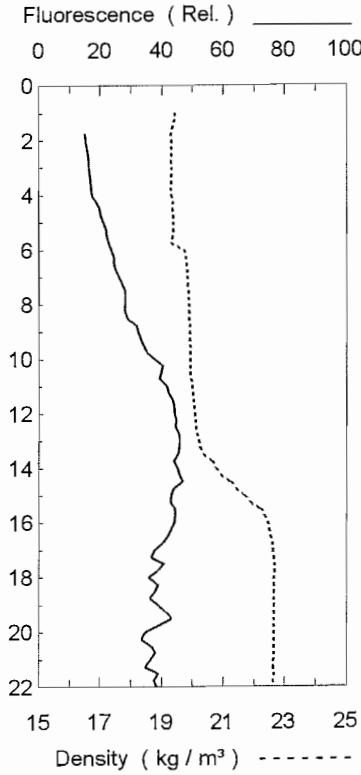
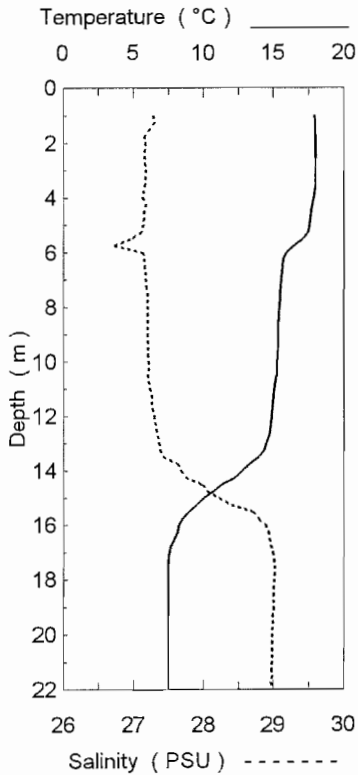
STATION 24



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	16.76	27.22	15	19.61
2	16.75	27.39	18	19.74
3	16.84	27.40	19	19.73
4	16.55	27.27	20	19.69
5	16.23	27.39	25	19.85
6	16.04	27.38	30	19.88
7	15.62	27.35	36	19.95
8	14.68	27.42	40	20.20
9	13.96	27.51	45	20.42
10	13.53	27.57	53	20.55
11	13.09	27.64	61	20.68
12	12.32	27.74	61	20.90
13	10.85	28.10	55	21.43
14	8.95	28.60	51	22.12
15	7.70	28.79	50	22.44
16	7.35	28.89	50	22.57

Survey 95-03

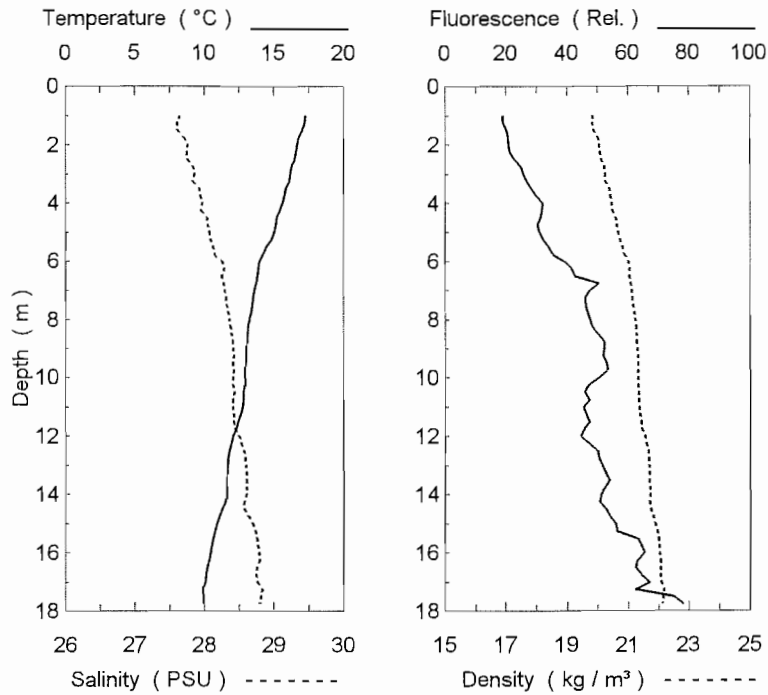
STATION 25



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	17.91	27.25		19.37
2	17.93	27.17	14	19.30
3	17.96	27.17	16	19.29
4	17.83	27.15	18	19.31
5	17.47	27.09	21	19.35
6	16.01	27.07	24	19.66
7	15.51	27.17	26	19.84
8	15.39	27.19	28	19.88
9	15.30	27.20	32	19.90
10	15.21	27.21	38	19.93
11	15.05	27.23	41	19.98
12	14.83	27.29	44	20.07
13	14.49	27.35	45	20.19
14	12.76	27.68	45	20.78
15	10.10	28.23	43	21.65
16	8.29	28.87	44	22.43
17	7.59	28.98	39	22.61
18	7.44	29.00	38	22.64
19	7.43	28.99	39	22.64
20	7.42	28.98	37	22.63
21	7.42	28.98	38	22.62
22	7.43	28.96	37	22.61

Survey 95-03

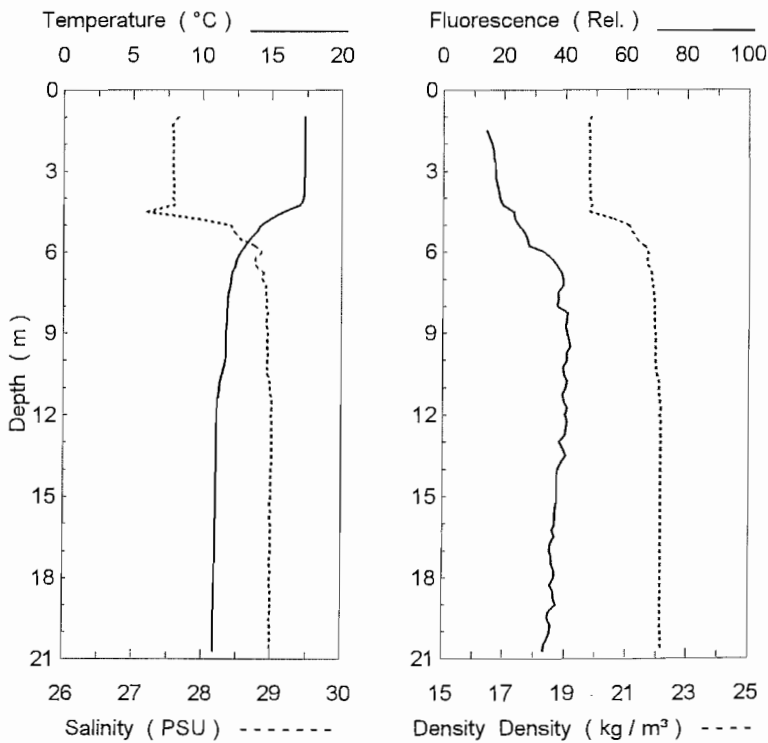
STATION 26



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	17.15	27.62	19	19.83
2	16.66	27.72	21	20.02
3	16.14	27.83	25	20.21
4	15.55	27.96	31	20.44
5	14.92	28.07	32	20.66
6	14.02	28.22	39	20.95
7	13.56	28.29	48	21.09
8	13.23	28.35	47	21.21
9	13.01	28.40	51	21.29
10	12.88	28.41	49	21.32
11	12.67	28.41	47	21.36
12	12.07	28.49	46	21.53
13	11.67	28.59	52	21.67
14	11.51	28.59	52	21.70
15	10.89	28.68	56	21.88
16	10.43	28.77	64	22.03
17	10.05	28.77	66	22.09
18	9.88	28.81	95	22.15

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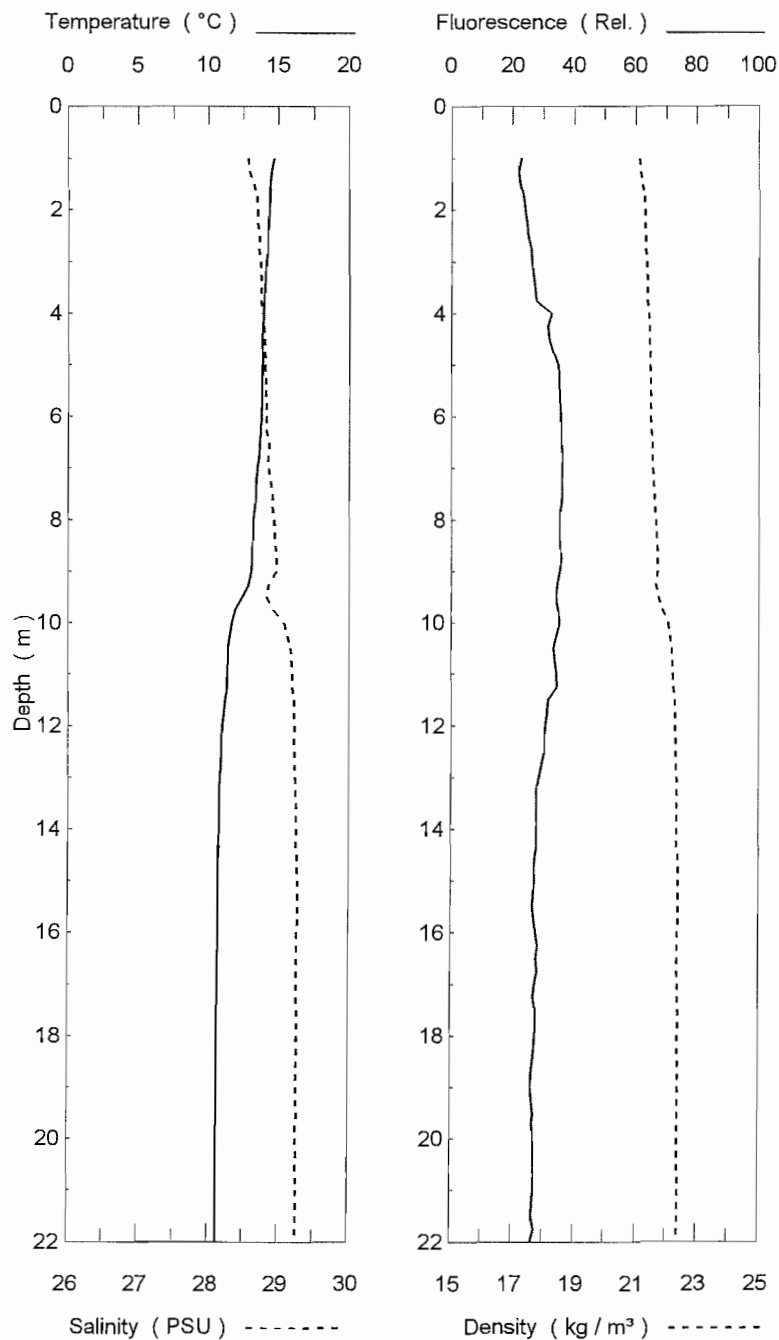
STATION 27



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	17.35	27.48		19.68
2	17.33	27.57	16	19.75
3	17.30	27.57	17	19.76
4	17.06	27.56	19	19.80
5	14.34	28.29	25	20.94
6	12.79	28.77	33	21.61
7	12.06	28.88	39	21.83
8	11.79	28.93	39	21.91
9	11.69	28.93	41	21.93
10	11.61	28.93	40	21.95
11	11.21	28.97	40	22.05
12	11.04	29.00	40	22.10
13	11.00	29.00	39	22.11
14	10.99	28.99	38	22.11
15	10.98	28.99	37	22.10
16	10.93	28.99	37	22.11
17	10.92	28.99	36	22.11
18	10.89	28.99	36	22.12
19	10.87	28.99	36	22.12
20	10.84	28.99	35	22.12
21	10.83	28.99	32	22.13

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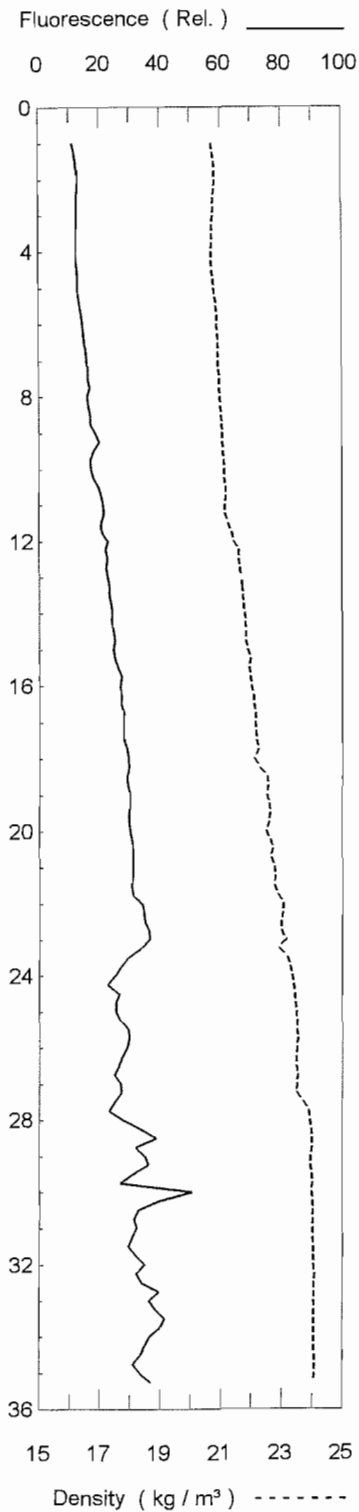
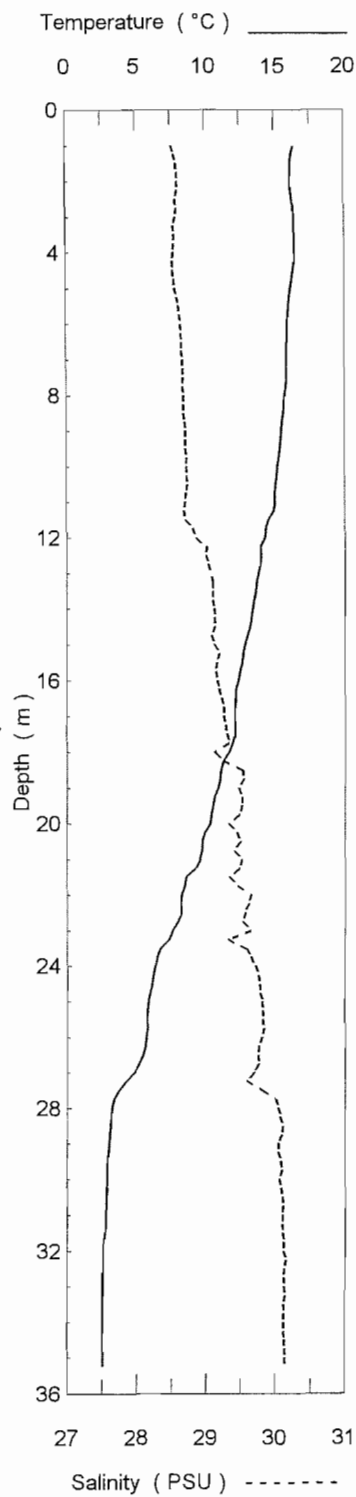
STATION 28



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.59	28.69	23	21.20
2	14.30	28.70	23	21.26
3	14.12	28.73	26	21.32
4	13.93	28.77	30	21.39
5	13.83	28.80	34	21.44
6	13.73	28.83	35	21.48
7	13.49	28.87	36	21.55
8	13.24	28.93	36	21.65
9	12.99	28.91	35	21.68
10	11.73	29.02	34	22.00
11	11.35	29.17	33	22.18
12	10.99	29.23	30	22.29
13	10.83	29.24	29	22.32
14	10.76	29.26	28	22.35
15	10.67	29.27	27	22.37
16	10.67	29.27	27	22.37
17	10.66	29.26	27	22.37
18	10.65	29.26	27	22.37
19	10.61	29.27	26	22.38
20	10.60	29.27	27	22.38
21	10.60	29.26	27	22.38
22	10.60	29.26	27	22.38

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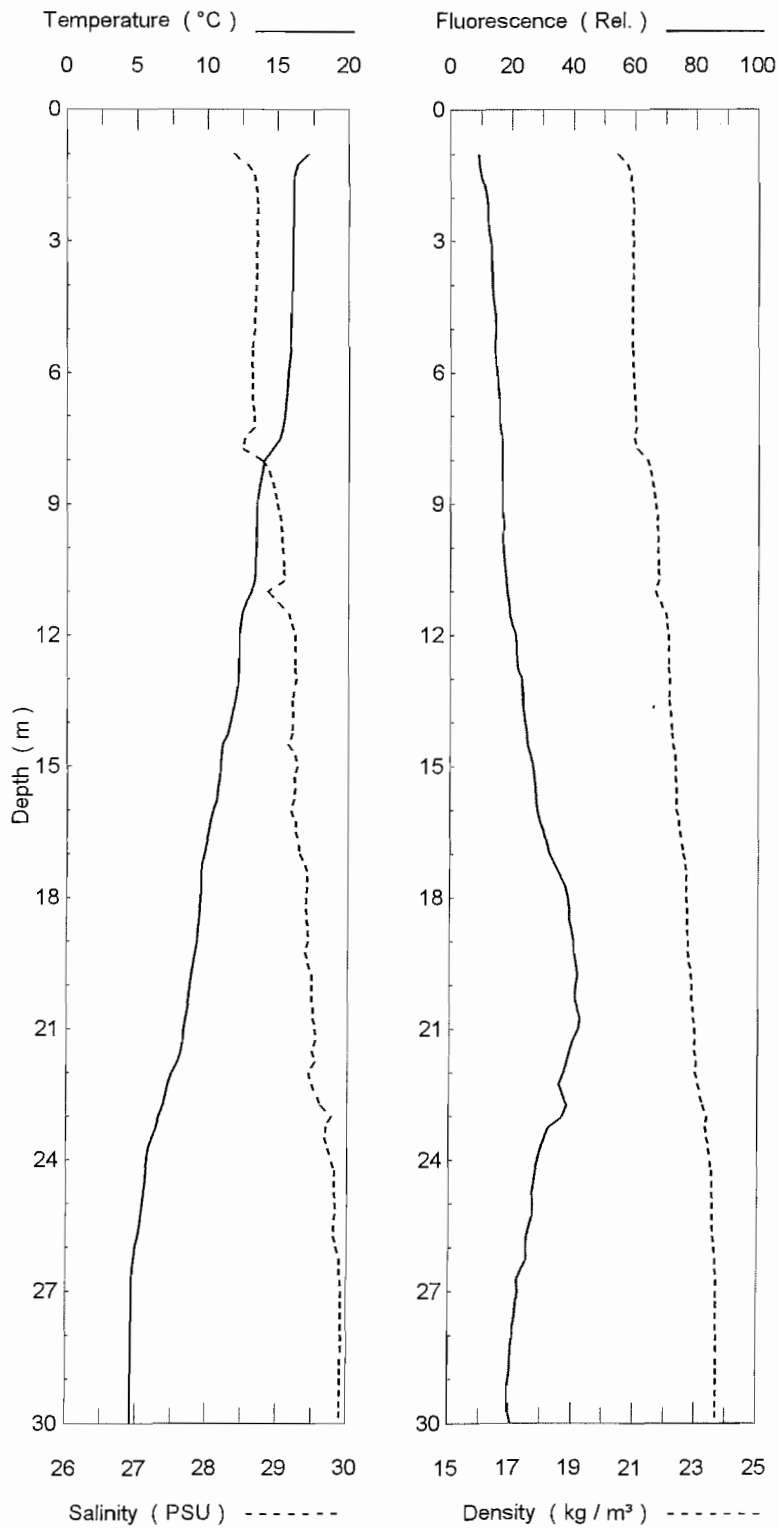
STATION 29



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.36	28.53	11	20.70
2	16.18	28.59	13	20.79
3	16.34	28.57	12	20.73
4	16.42	28.54	12	20.69
5	16.13	28.57	13	20.78
6	15.92	28.64	14	20.88
7	15.83	28.67	16	20.92
8	15.69	28.68	16	20.96
9	15.46	28.70	19	21.03
10	15.18	28.72	18	21.10
11	14.93	28.70	21	21.14
12	14.19	28.88	22	21.42
13	13.78	29.07	23	21.65
14	13.37	29.12	24	21.77
15	12.86	29.14	25	21.88
16	12.33	29.18	27	22.01
17	12.07	29.26	27	22.12
18	11.56	29.29	29	22.23
19	10.84	29.51	30	22.53
20	10.21	29.43	30	22.57
21	9.43	29.44	31	22.70
22	8.36	29.56	33	22.95
23	7.63	29.46	35	22.98
24	6.30	29.71	26	23.34
25	5.87	29.80	26	23.46
26	5.64	29.80	28	23.48
27	4.68	29.70	26	23.50
28	3.29	30.03	30	23.89
29	3.02	30.07	34	23.95
30	2.85	30.09	34	23.98
31	2.76	30.10	31	24.00
32	2.58	30.12	34	24.02
33	2.51	30.13	38	24.03
34	2.50	30.12	37	24.03
35	2.50	30.12	33	24.03

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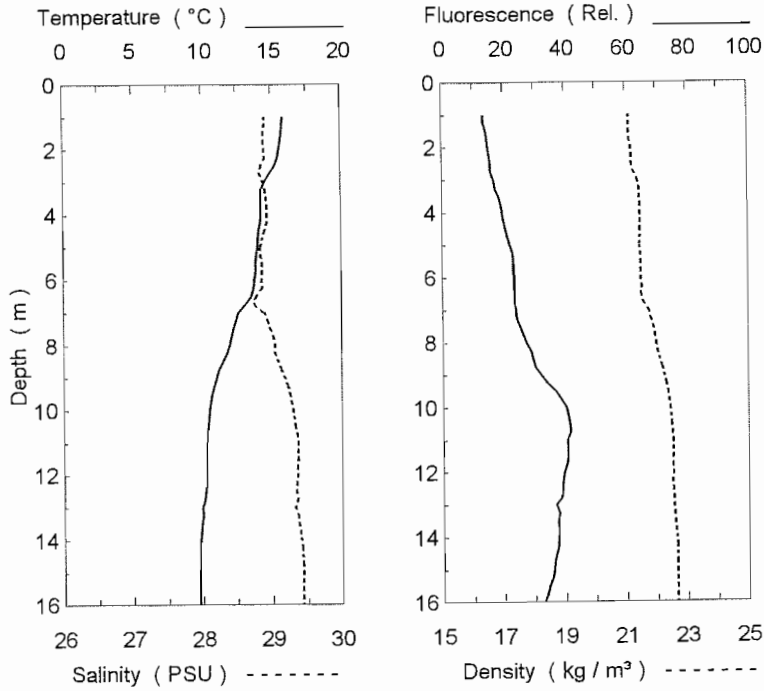
STATION 30



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.99	28.59	9	20.60
2	16.07	28.69	11	20.89
3	16.01	28.69	13	20.90
4	15.97	28.68	13	20.90
5	15.89	28.65	14	20.90
6	15.70	28.63	15	20.92
7	15.40	28.65	16	21.00
8	14.28	28.69	17	21.26
9	13.59	28.97	17	21.62
10	13.41	29.06	17	21.71
11	12.97	29.02	18	21.77
12	12.34	29.22	21	22.04
13	12.15	29.24	23	22.09
14	11.56	29.19	24	22.16
15	10.95	29.24	27	22.30
16	10.45	29.23	29	22.38
17	9.76	29.33	33	22.57
18	9.49	29.41	38	22.67
19	9.25	29.41	40	22.71
20	8.76	29.47	41	22.83
21	8.33	29.51	41	22.92
22	7.50	29.48	37	23.01
23	6.60	29.68	35	23.28
24	5.69	29.77	28	23.46
25	5.41	29.83	27	23.53
26	4.94	29.84	25	23.60
27	4.66	29.91	22	23.68
28	4.63	29.91	21	23.68
29	4.60	29.91	20	23.68
30	4.60	29.90	20	23.68

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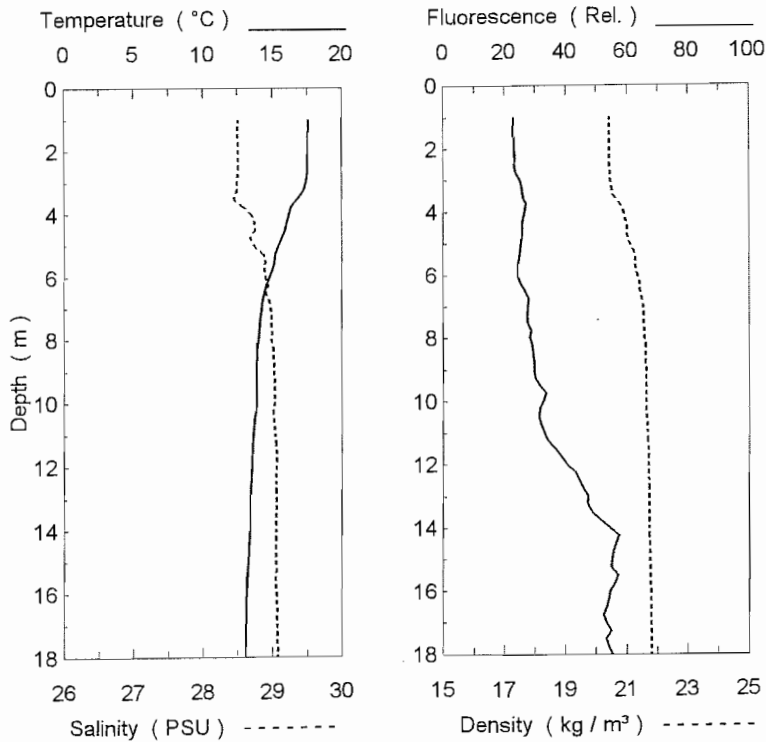
STATION 31



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.79	28.79	12	21.02
2	15.52	28.90	15	21.16
3	14.58	28.87	17	21.34
4	14.22	28.92	19	21.45
5	13.97	28.85	22	21.44
6	13.75	28.86	23	21.50
7	12.79	28.82	24	21.65
8	11.90	29.03	27	21.98
9	11.00	29.17	33	22.24
10	10.47	29.29	40	22.42
11	10.30	29.34	41	22.49
12	10.24	29.34	40	22.50
13	10.01	29.35	38	22.54
14	9.77	29.40	37	22.62
15	9.71	29.42	36	22.64
16	9.72	29.42	33	22.64

Survey 95-03

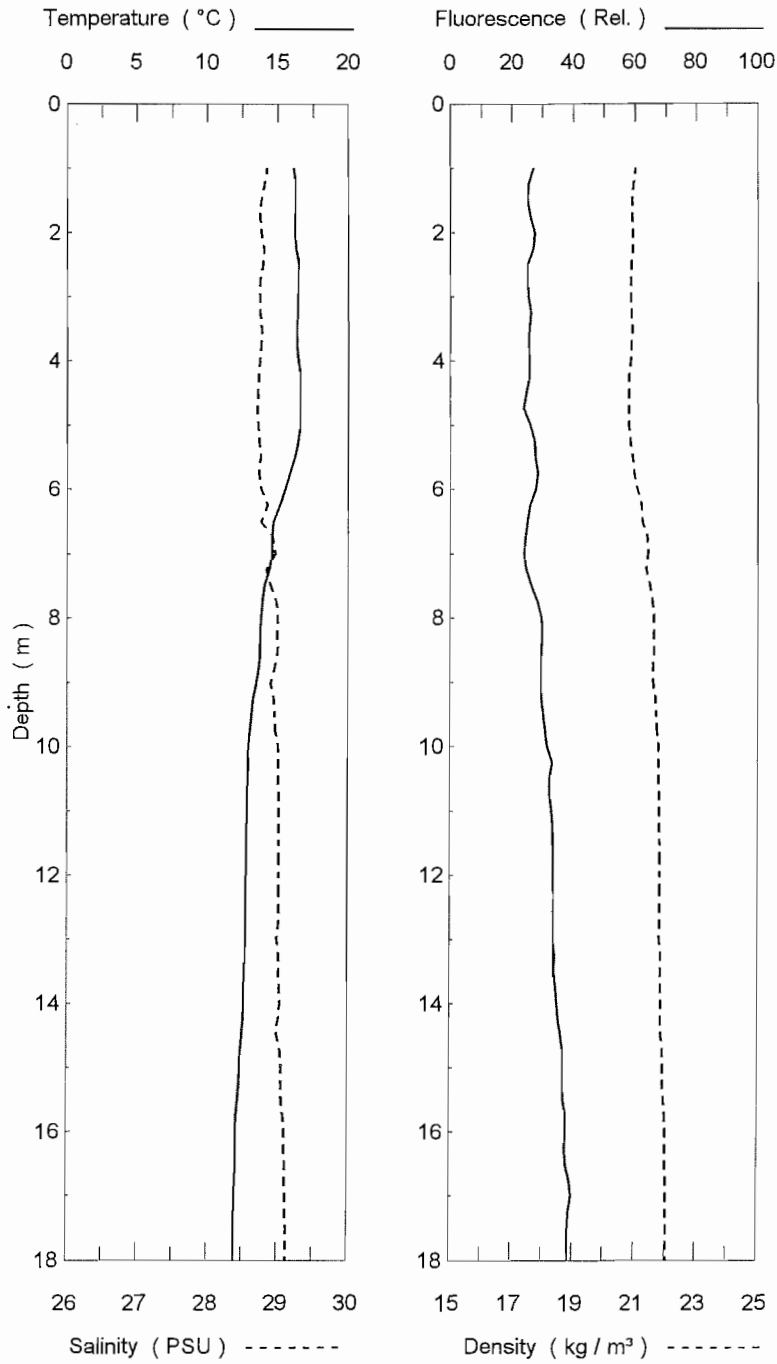
STATION 32



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.55	28.34	23	20.28
2	17.52	28.50	23	20.41
3	17.33	28.49	25	20.45
4	16.19	28.64	26	20.82
5	15.42	28.78	25	21.10
6	14.76	28.90	25	21.32
7	14.17	28.96	28	21.49
8	13.96	28.99	28	21.56
9	13.85	29.02	30	21.60
10	13.80	29.02	32	21.61
11	13.60	29.04	33	21.66
12	13.51	29.05	41	21.69
13	13.40	29.04	47	21.71
14	13.35	29.04	54	21.72
15	13.23	29.04	55	21.74
16	13.12	29.05	55	21.77
17	13.08	29.06	53	21.78
18	13.05	29.07	53	21.79

Survey 95-03

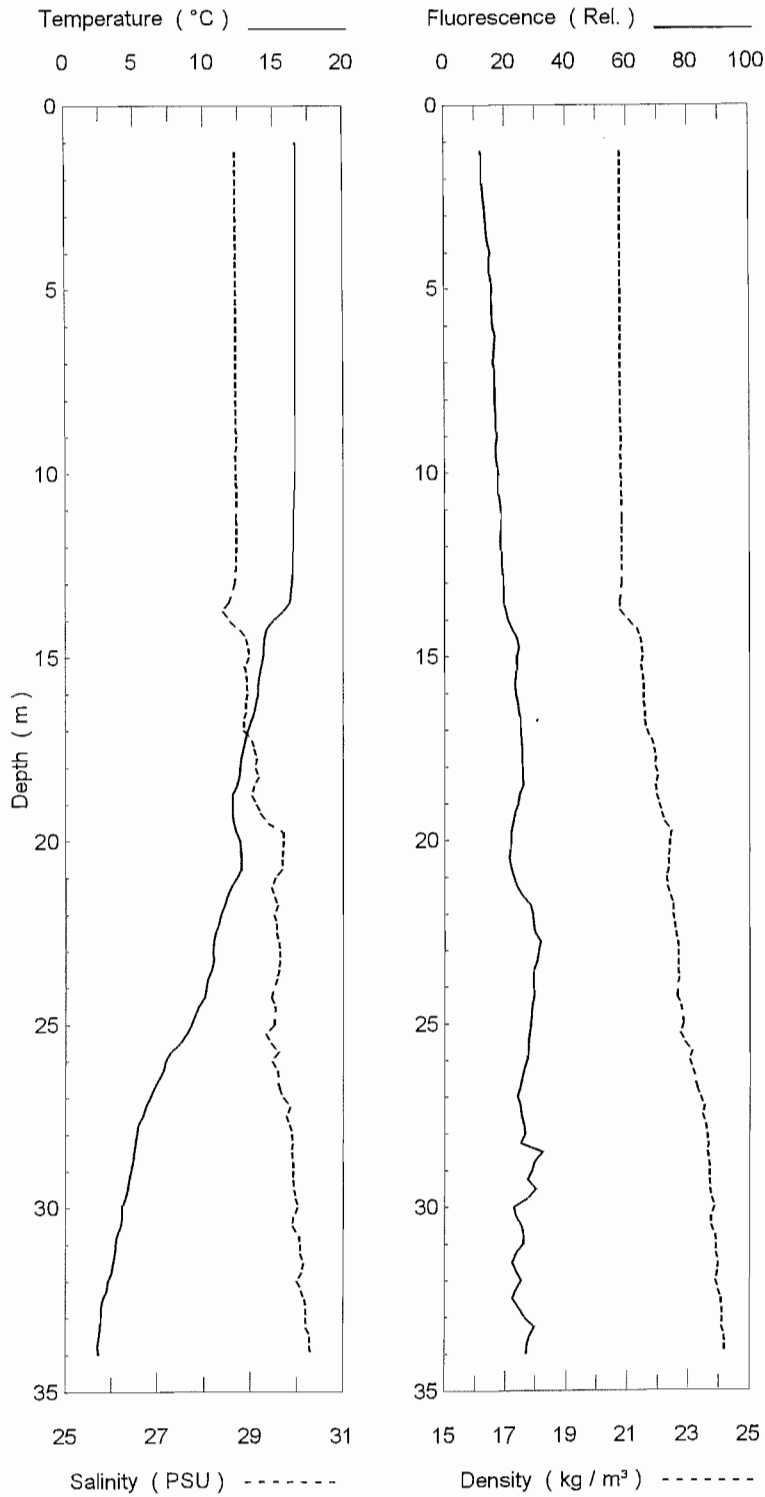
STATION 33



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.14	28.79	26	20.95
2	16.24	28.77	26	20.91
3	16.35	28.74	25	20.86
4	16.42	28.74	26	20.85
5	16.46	28.72	26	20.83
6	15.45	28.78	27	21.09
7	14.47	28.88	24	21.37
8	13.79	28.98	29	21.58
9	13.45	28.93	29	21.61
10	12.96	28.99	32	21.75
11	12.81	29.01	33	21.80
12	12.76	29.02	34	21.81
13	12.70	29.01	34	21.81
14	12.56	29.01	35	21.84
15	12.31	29.05	37	21.92
16	12.07	29.09	38	21.99
17	11.99	29.11	39	22.02
18	11.88	29.13	38	22.06

Survey 95-03

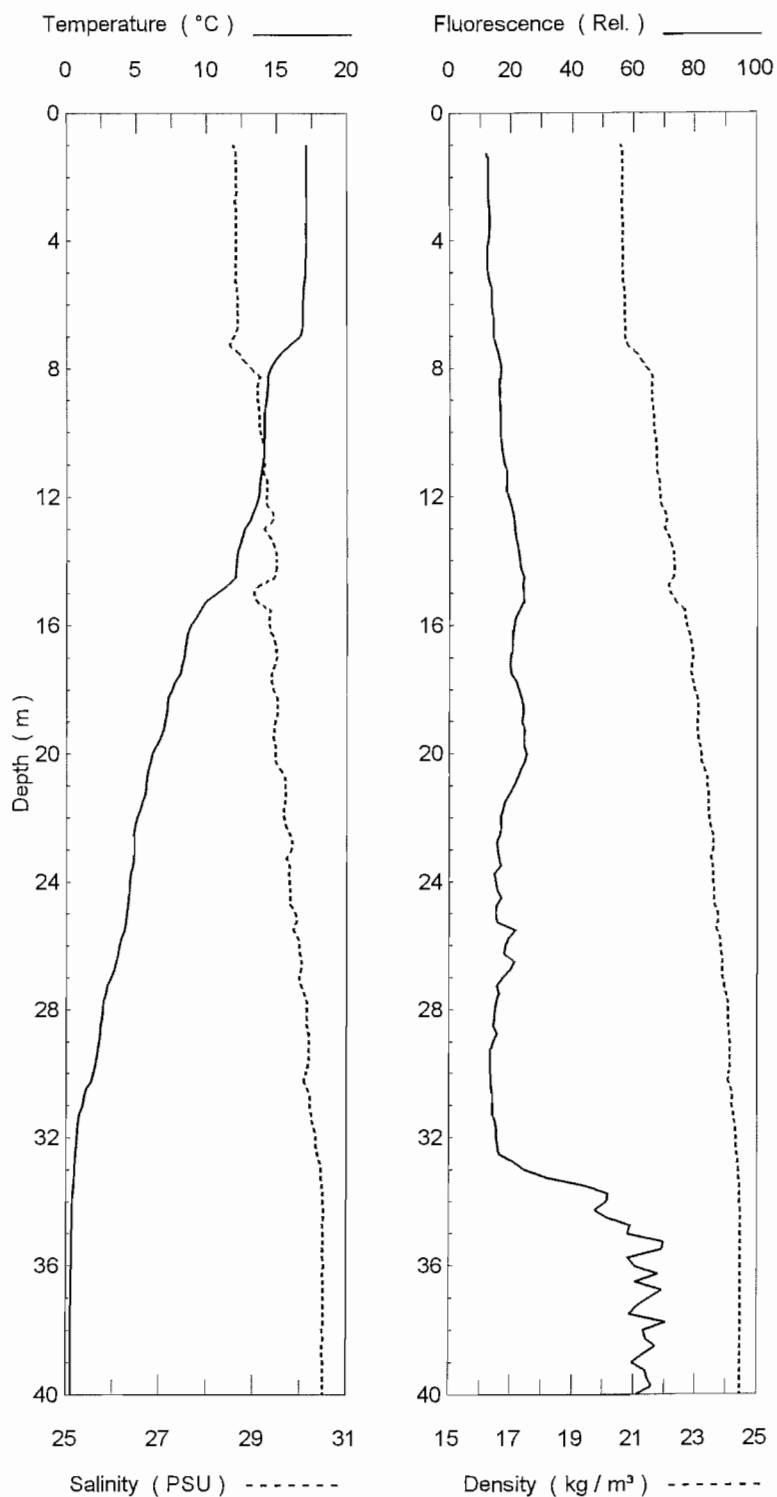
STATION 34



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.63	28.62	12	20.71
2	16.62	28.68	12	20.75
3	16.62	28.68	13	20.76
4	16.61	28.68	15	20.76
5	16.61	28.69	15	20.76
6	16.61	28.69	16	20.76
7	16.60	28.69	16	20.77
8	16.58	28.68	16	20.77
9	16.55	28.68	17	20.78
10	16.52	28.68	17	20.78
11	16.45	28.69	18	20.80
12	16.40	28.69	18	20.81
13	16.26	28.62	19	20.79
14	15.06	28.54	21	20.99
15	14.14	28.94	24	21.48
16	13.78	28.90	23	21.52
17	13.13	28.92	25	21.67
18	12.57	29.11	26	21.92
19	12.01	29.12	24	22.02
20	12.40	29.68	22	22.39
21	12.24	29.56	23	22.33
22	11.22	29.55	28	22.50
23	10.66	29.61	31	22.64
24	10.14	29.51	29	22.65
25	8.95	29.46	28	22.79
26	7.38	29.54	27	23.07
27	6.08	29.70	24	23.36
28	5.17	29.85	26	23.58
29	4.71	29.91	29	23.67
30	4.21	29.92	26	23.73
31	3.63	30.05	25	23.88
32	3.08	30.06	24	23.94
33	2.54	30.19	27	24.08
34	2.31	30.30	28	24.19

Survey 95-03

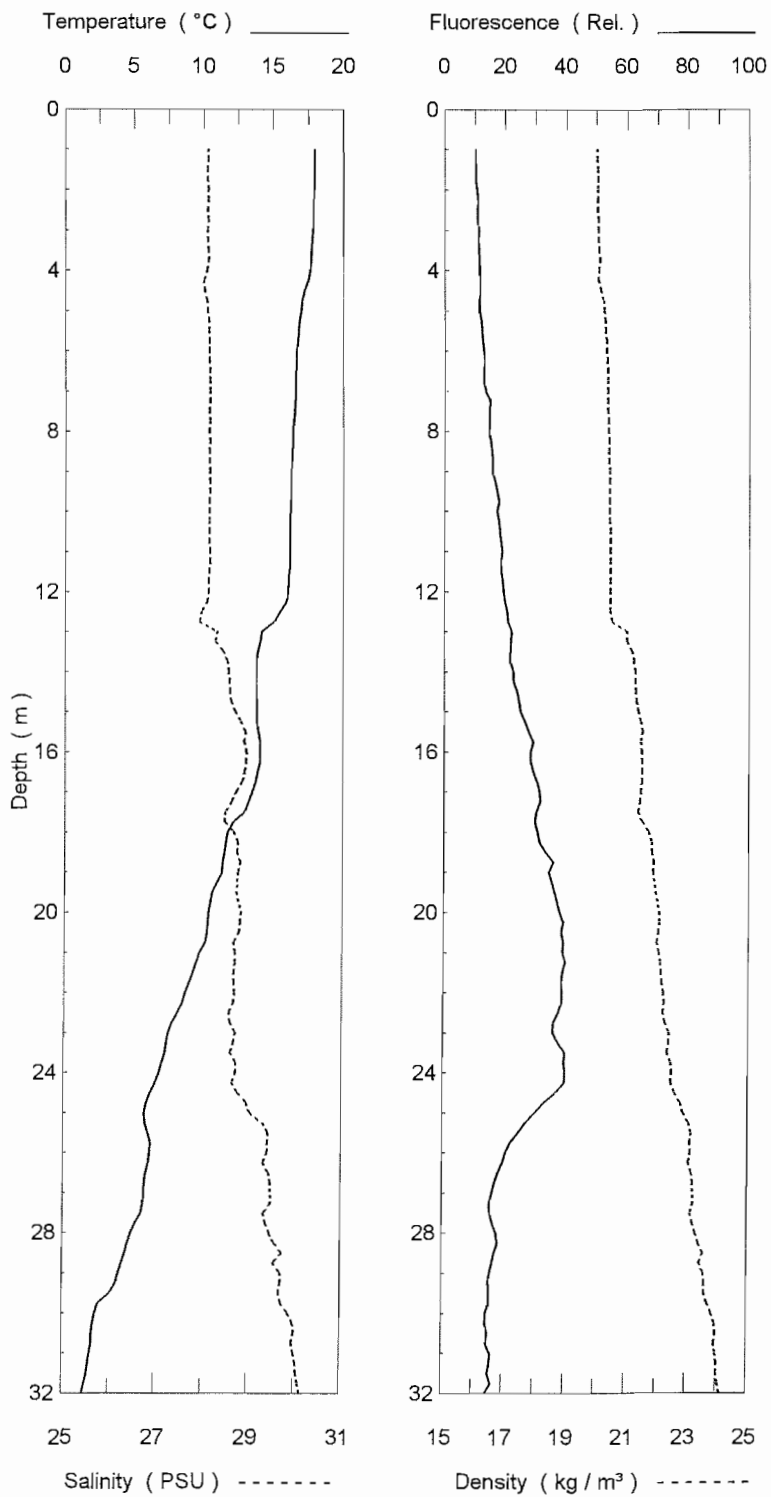
STATION 35



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.08	28.47	12	20.49
2	17.09	28.61	12	20.60
3	17.10	28.62	13	20.60
4	17.07	28.63	13	20.61
5	17.02	28.62	12	20.62
6	16.86	28.65	14	20.68
7	16.42	28.57	15	20.72
8	14.57	28.91	17	21.37
9	14.23	29.10	16	21.59
10	14.07	29.15	17	21.66
11	13.95	29.22	18	21.74
12	13.63	29.29	19	21.85
13	12.79	29.36	21	22.07
14	12.15	29.47	23	22.27
15	10.70	29.21	24	22.32
16	8.94	29.37	21	22.72
17	8.35	29.46	20	22.88
18	7.56	29.43	22	22.97
19	7.02	29.46	24	23.06
20	6.20	29.46	24	23.16
21	5.68	29.66	21	23.37
22	5.06	29.67	17	23.44
23	4.82	29.79	16	23.56
24	4.55	29.78	16	23.58
25	4.30	29.84	17	23.66
26	3.84	29.97	19	23.80
27	3.19	30.02	18	23.89
28	2.61	30.14	15	24.04
29	2.31	30.19	14	24.10
30	1.81	30.13	14	24.09
31	1.10	30.22	14	24.20
32	0.74	30.32	15	24.30
33	0.60	30.43	27	24.39
34	0.46	30.49	48	24.45
35	0.41	30.49	63	24.45
36	0.38	30.50	65	24.46
37	0.35	30.50	62	24.46
38	0.34	30.50	65	24.46
39	0.32	30.50	63	24.46
40	0.32	30.50	62	24.46

Survey 95-03

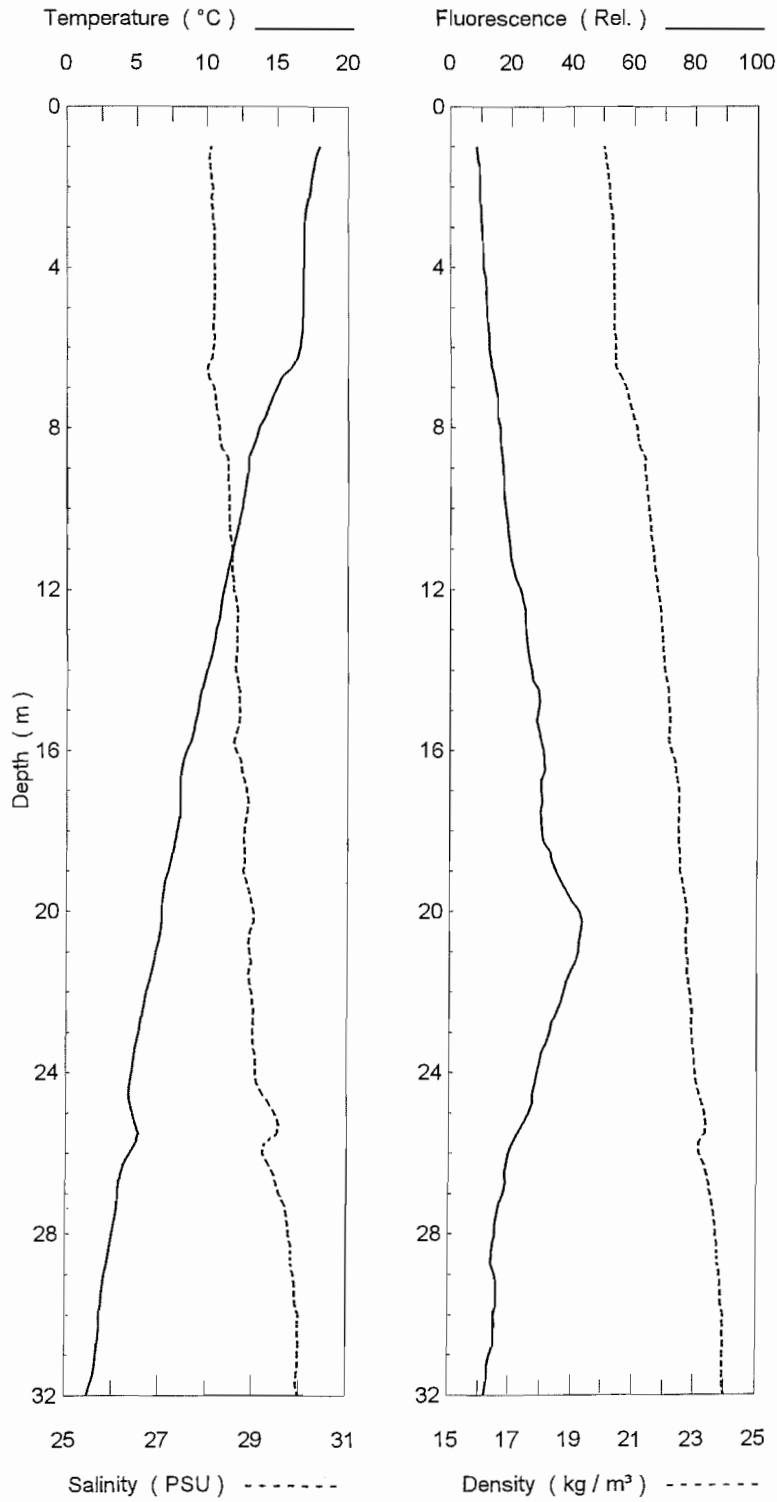
STATION 36



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	17.94	28.08	10	20.00
2	17.87	28.08	11	20.01
3	17.77	28.08	11	20.03
4	17.54	28.04	11	20.06
5	16.94	28.07	12	20.22
6	16.67	28.11	13	20.31
7	16.56	28.13	14	20.35
8	16.40	28.12	15	20.38
9	16.28	28.12	16	20.40
10	16.22	28.12	18	20.42
11	16.17	28.12	19	20.43
12	16.00	28.08	19	20.43
13	14.50	28.13	21	20.78
14	13.75	28.55	22	21.26
15	13.79	28.69	25	21.35
16	14.04	28.93	28	21.49
17	13.47	28.71	31	21.44
18	11.94	28.62	31	21.65
19	11.28	28.75	35	21.87
20	10.40	28.79	38	22.05
21	9.86	28.69	39	22.05
22	8.75	28.66	39	22.19
23	7.62	28.62	37	22.32
24	6.84	28.70	40	22.48
25	5.91	29.09	30	22.90
26	6.24	29.47	20	23.16
27	5.80	29.44	17	23.19
28	4.93	29.51	18	23.33
29	4.04	29.66	16	23.54
30	2.50	29.86	15	23.82
31	2.01	30.01	15	23.98
32	1.52	30.13	15	24.10

Survey 95-03

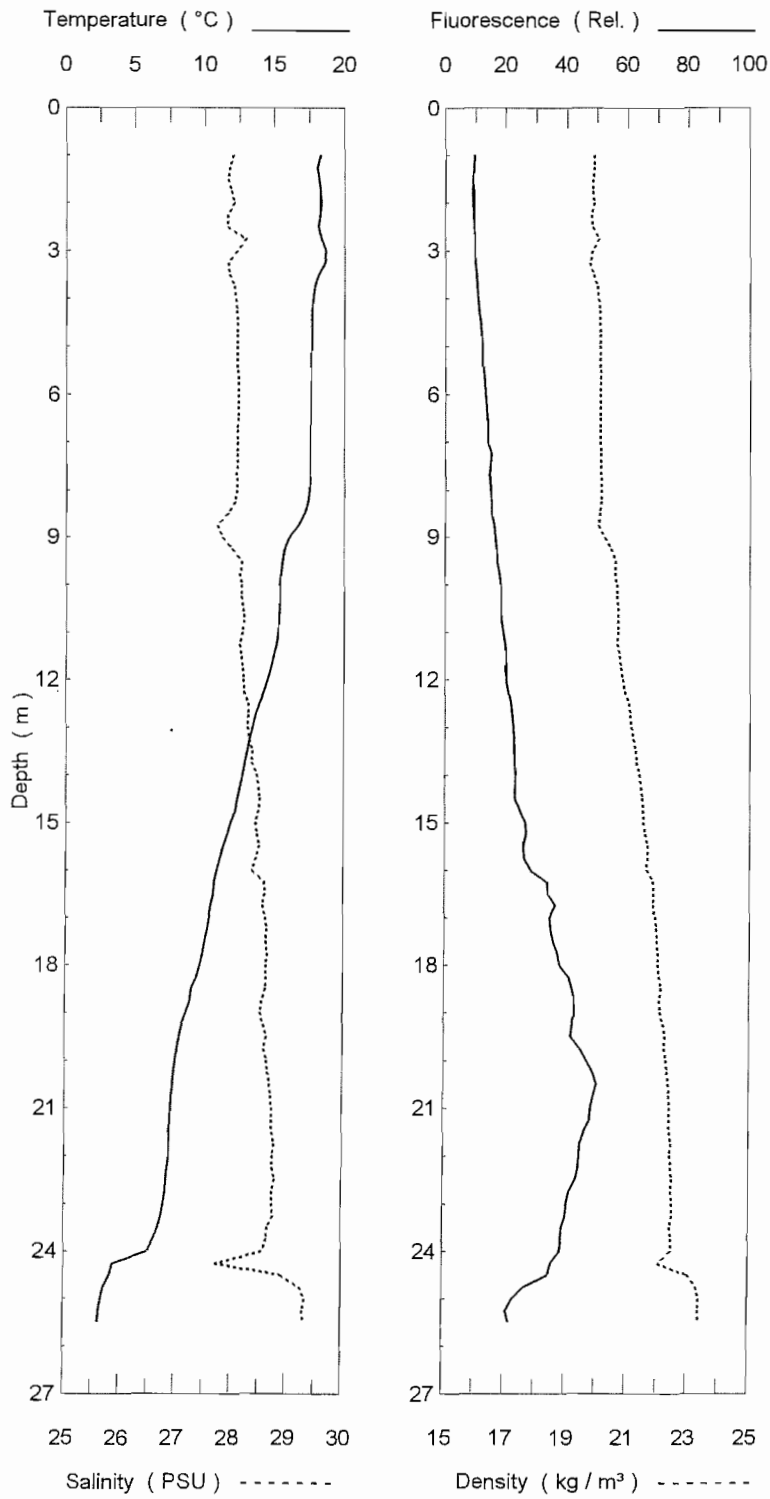
STATION 37



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.92	28.07	9	19.99
2	17.27	28.08	9	20.15
3	16.89	28.13	10	20.28
4	16.83	28.14	11	20.30
5	16.76	28.13	12	20.31
6	16.51	28.11	13	20.35
7	14.99	28.09	15	20.66
8	13.73	28.24	16	21.02
9	12.90	28.41	17	21.32
10	12.43	28.45	18	21.43
11	11.83	28.52	19	21.59
12	11.19	28.58	23	21.75
13	10.67	28.63	25	21.88
14	9.99	28.63	26	21.98
15	9.32	28.70	29	22.14
16	8.58	28.65	30	22.21
17	8.13	28.83	30	22.41
18	7.84	28.80	30	22.43
19	7.24	28.82	35	22.52
20	6.80	28.97	41	22.70
21	6.38	28.91	41	22.70
22	5.69	28.93	37	22.79
23	5.15	28.99	33	22.90
24	4.67	29.06	29	23.00
25	4.77	29.42	25	23.28
26	4.49	29.30	20	23.21
27	3.71	29.57	17	23.50
28	3.29	29.77	15	23.69
29	2.76	29.86	15	23.80
30	2.44	29.94	15	23.89
31	2.20	29.98	14	23.94
32	1.66	29.95	12	23.95

Survey 95-03

STATION 38

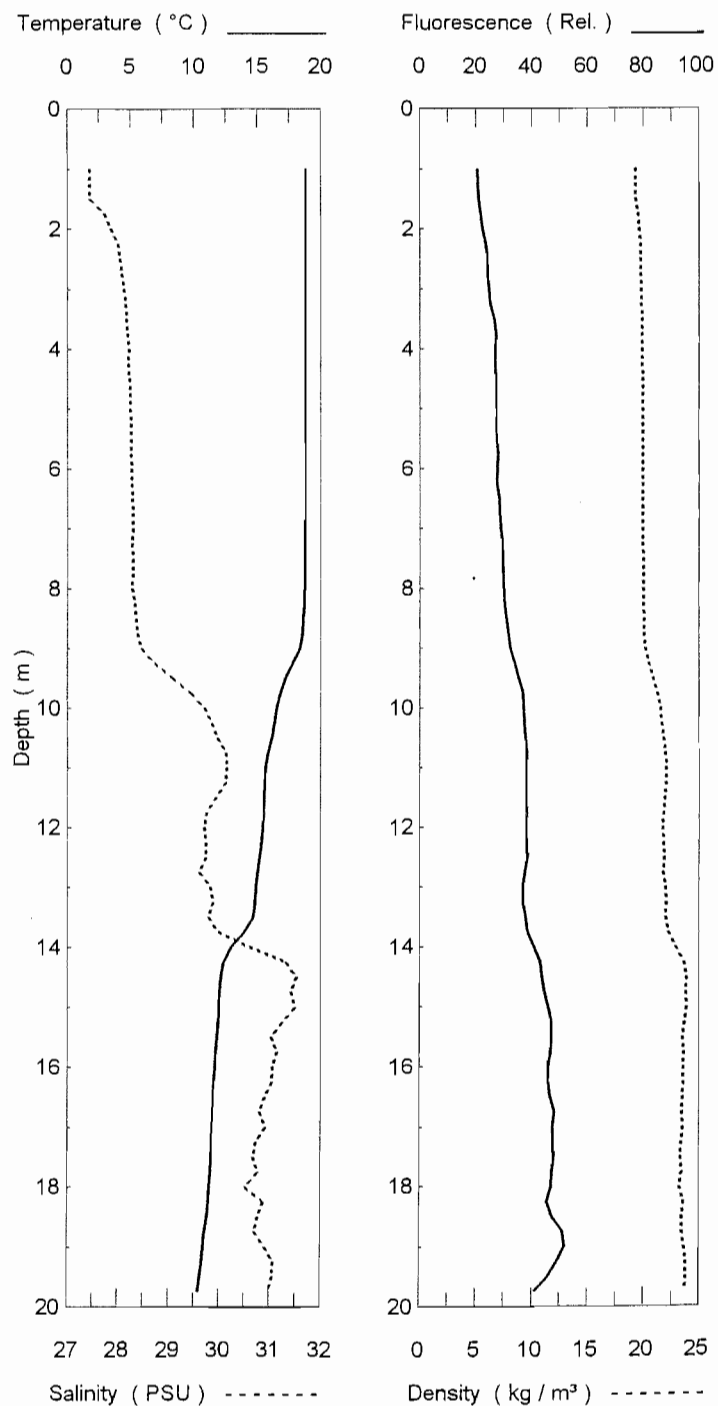


Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	18.22	27.97	9	19.85
2	18.24	27.96	9	19.84
3	18.49	28.08	10	19.87
4	17.78	28.00	11	19.98
5	17.63	28.08	12	20.07
6	17.60	28.08	13	20.08
7	17.56	28.08	14	20.08
8	17.41	28.03	15	20.08
9	16.20	27.88	16	20.24
10	15.44	28.14	18	20.60
11	15.20	28.17	19	20.67
12	14.47	28.20	20	20.84
13	13.40	28.29	22	21.13
14	12.69	28.42	23	21.36
15	11.87	28.44	26	21.52
16	10.91	28.50	30	21.73
17	10.34	28.59	35	21.90
18	9.64	28.61	39	22.03
19	8.68	28.56	42	22.13
20	7.97	28.63	46	22.28
21	7.67	28.73	49	22.40
22	7.49	28.76	44	22.44
23	7.13	28.74	41	22.48
24	5.42	28.62	37	22.57
25	2.53	29.34	23	23.41
26	2.31	29.35	20	23.43

Appendix 5.4 Survey 95-04 CTD profiles of temperature ($^{\circ}\text{C}$), salinity (PSU), density (kg/m^3) and fluorescence (relative).

Survey 95-04

STATION 1



Depth (m)	Temp. ($^{\circ}\text{C}$)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m^3)
1	18.82	27.45	20	19.30
2	18.82	27.47	23	19.35
3	18.83	28.12	25	19.82
4	18.82	28.22	27	19.89
5	18.82	28.25	27	19.92
6	18.82	28.27	28	19.93
7	18.80	28.30	29	19.95
8	18.74	28.33	30	19.98
9	18.22	28.67	33	20.24
10	16.61	29.78	37	21.46
11	15.75	30.17	38	22.03
12	15.45	29.81	38	21.84
13	14.97	29.83	38	21.95
14	13.18	30.95	41	22.93
15	12.04	31.38	45	23.73
16	11.67	31.09	46	23.57
17	11.46	30.84	48	23.44
18	11.24	30.73	47	23.37
19	10.78	30.99	50	23.64
20	10.25	31.16	38	23.77

Survey 95-04

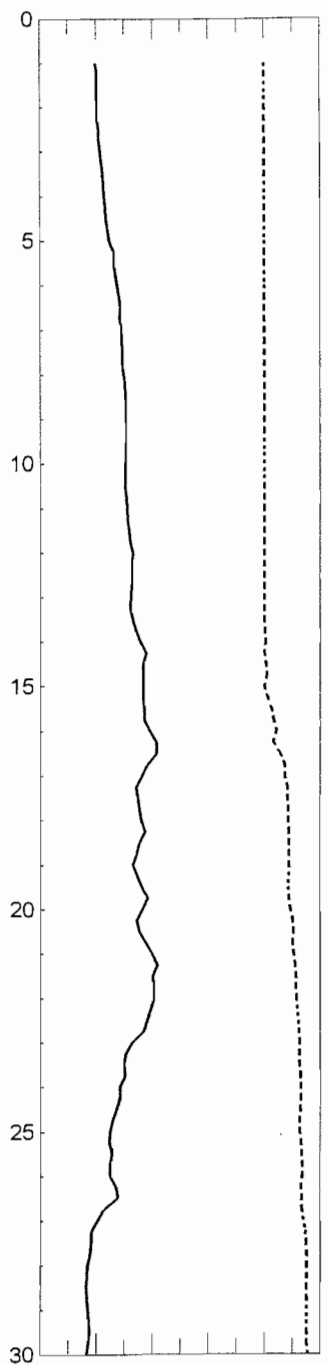
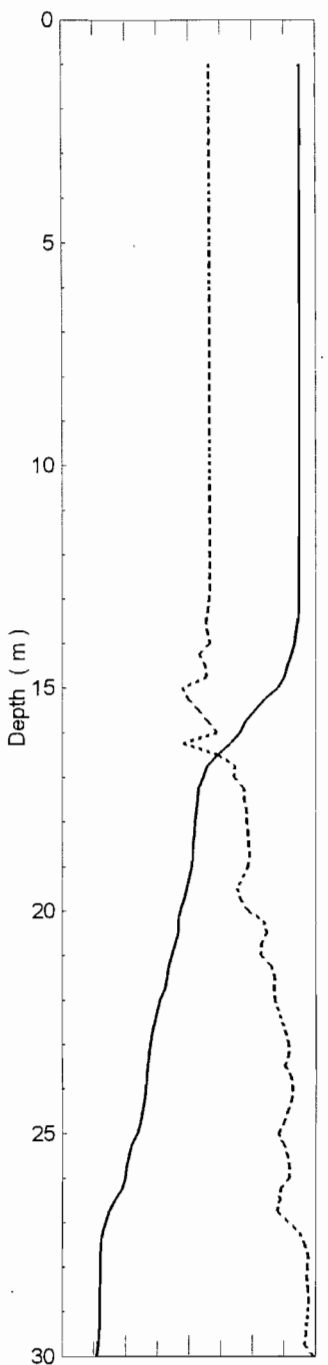
STATION 2

Temperature (°C) _____

Fluorescence (Rel.) _____

0 5 10 15 20

0 20 40 60 80 100



26 27 28 29 30

0 5 10 15 20 25

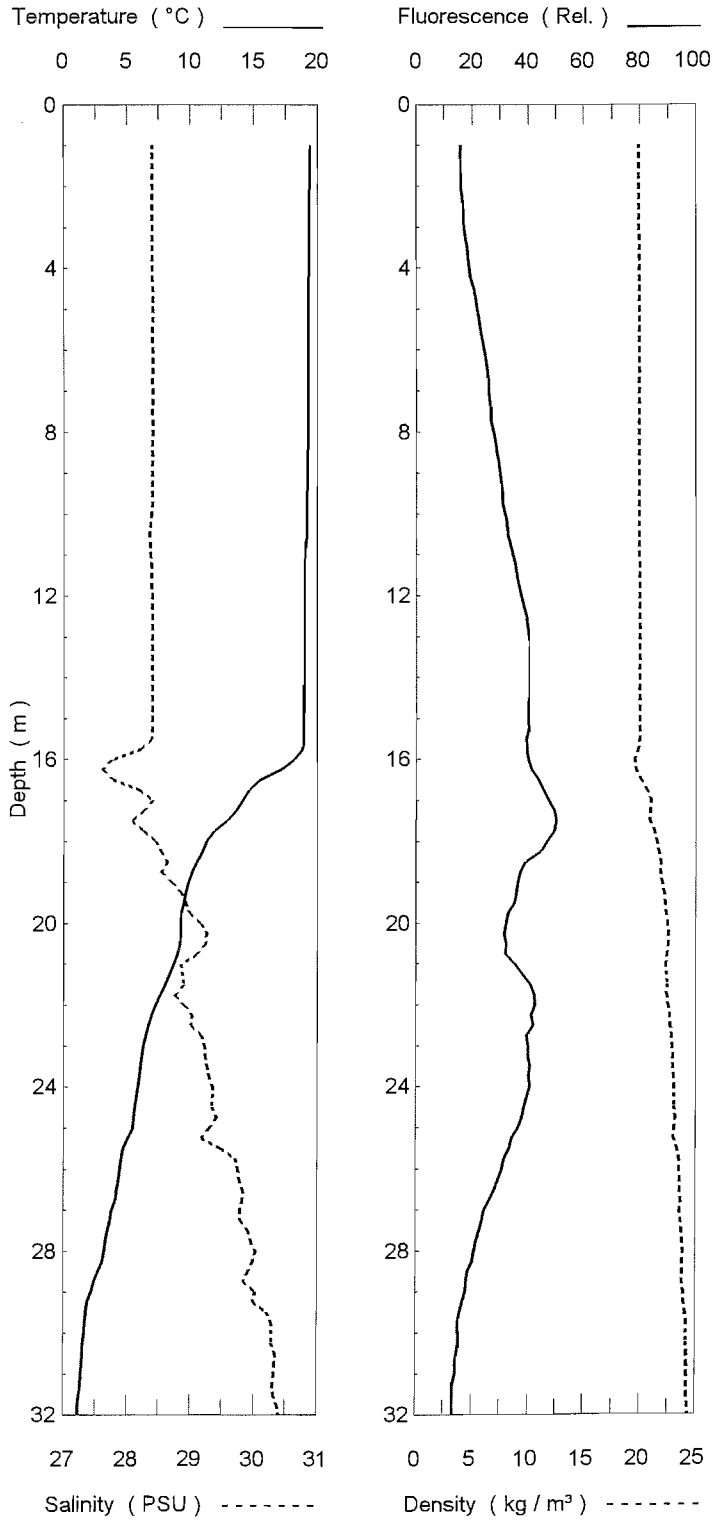
Salinity (PSU) - - - - -

Density (kg / m³) - - - - -

Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	18.76	28.33	20	19.89
2	18.76	28.33	20	19.98
3	18.76	28.33	21	19.99
4	18.76	28.33	23	19.99
5	18.76	28.33	25	19.99
6	18.75	28.33	27	19.99
7	18.75	28.33	29	19.99
8	18.75	28.33	30	20.00
9	18.75	28.33	31	20.00
10	18.75	28.33	30	19.99
11	18.73	28.33	31	19.99
12	18.72	28.33	32	20.00
13	18.69	28.32	32	20.00
14	18.27	28.30	35	20.04
15	16.76	28.23	37	20.22
16	13.90	28.45	39	20.95
17	11.21	28.88	37	21.87
18	10.49	28.94	36	22.12
19	10.19	28.93	34	22.17
20	9.36	29.03	36	22.32
21	8.61	29.26	40	22.60
22	7.80	29.46	40	22.88
23	6.99	29.59	33	23.12
24	6.55	29.64	29	23.24
25	5.84	29.58	25	23.21
26	4.88	29.59	26	23.34
27	3.47	29.73	21	23.55
28	3.02	29.87	17	23.78
29	2.97	29.88	17	23.80
30	2.82	29.89	17	23.79

Survey 95-04

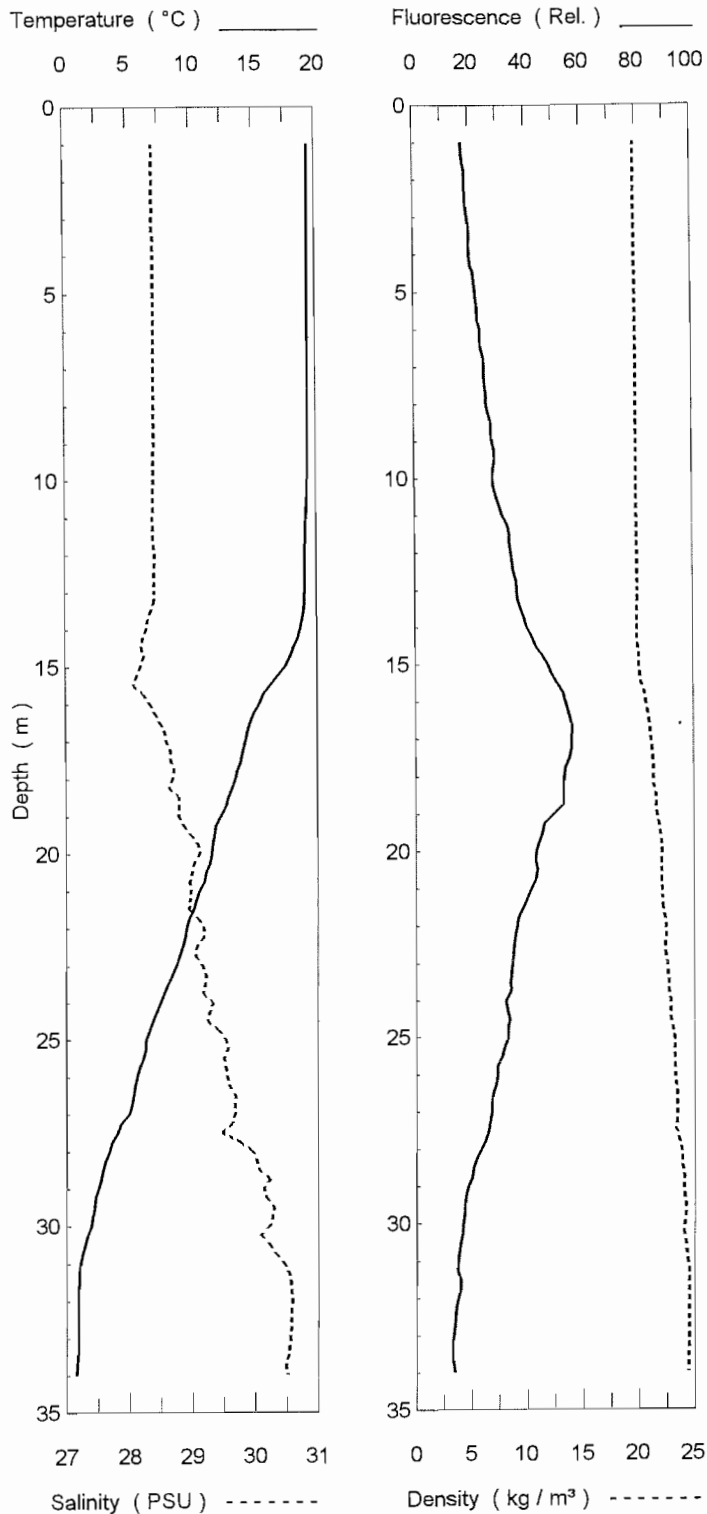
STATION 3



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.43	28.39	16	19.87
2	19.38	28.40	16	19.89
3	19.35	28.41	17	19.90
4	19.32	28.41	19	19.91
5	19.30	28.41	22	19.92
6	19.29	28.41	24	19.92
7	19.28	28.41	26	19.92
8	19.26	28.41	28	19.92
9	19.23	28.40	30	19.93
10	19.19	28.39	32	19.93
11	19.07	28.39	34	19.94
12	19.00	28.40	38	19.98
13	18.98	28.40	40	19.99
14	18.96	28.40	40	19.99
15	18.95	28.38	40	20.00
16	17.72	28.19	41	19.76
17	14.12	28.56	47	20.83
18	11.45	28.75	47	21.49
19	9.90	28.93	37	22.03
20	9.26	29.19	32	22.50
21	8.63	29.12	36	22.44
22	7.28	29.16	42	22.58
23	6.33	29.31	40	22.93
24	5.84	29.40	40	23.08
25	5.33	29.41	36	23.09
26	4.41	29.82	31	23.56
27	3.86	29.93	25	23.68
28	3.19	30.05	21	23.85
29	2.19	30.16	18	23.93
30	1.68	30.31	15	24.20
31	1.43	30.35	14	24.26
32	1.17	30.43	13	24.34

Survey 95-04

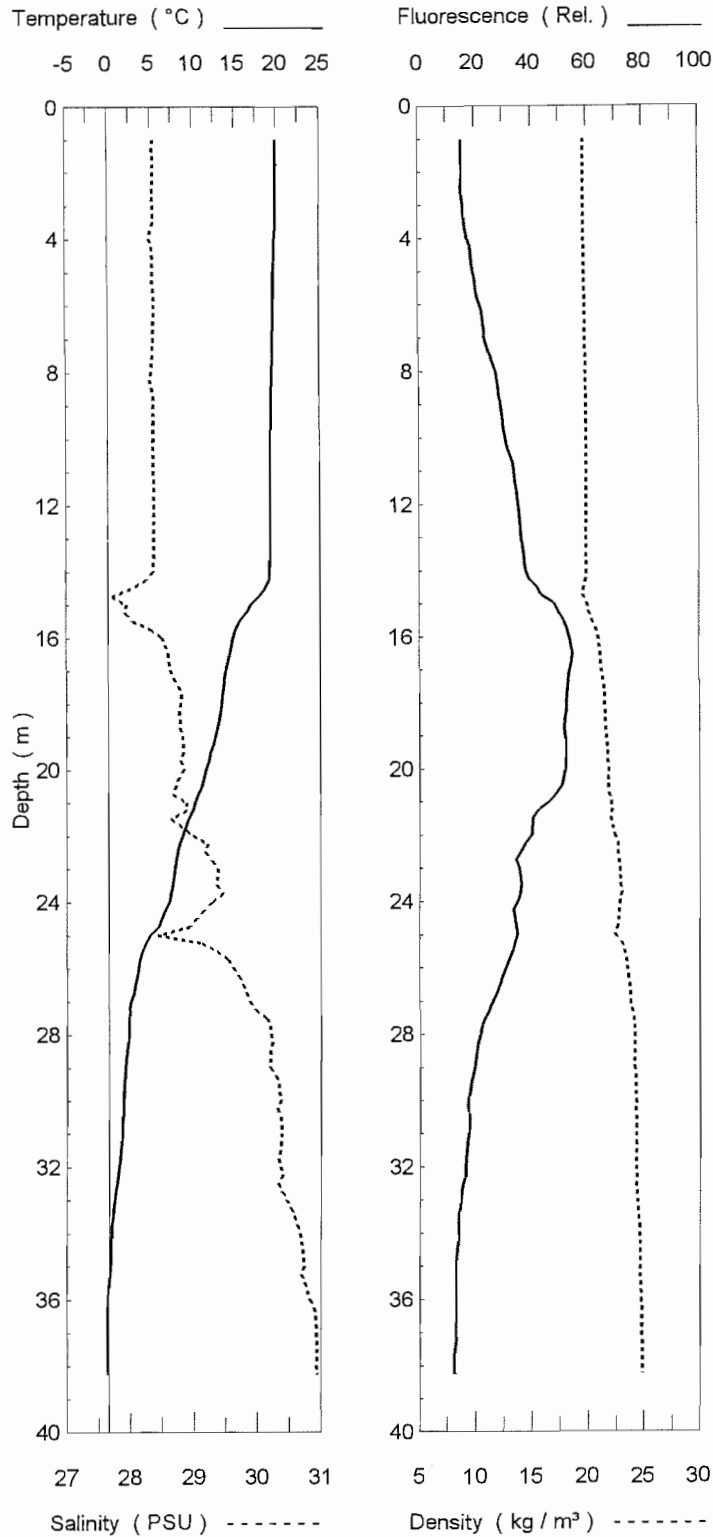
STATION 4



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.47	28.41	17	19.83
2	19.45	28.43	19	19.89
3	19.43	28.42	20	19.89
4	19.41	28.42	21	19.90
5	19.40	28.42	22	19.90
6	19.39	28.42	24	19.90
7	19.38	28.42	25	19.91
8	19.37	28.42	26	19.91
9	19.35	28.42	28	19.91
10	19.30	28.41	28	19.91
11	19.21	28.41	32	19.93
12	19.11	28.42	35	19.97
13	19.05	28.41	37	19.98
14	18.62	28.35	41	19.95
15	17.34	28.37	47	20.14
16	15.41	28.54	54	20.69
17	14.28	28.71	56	21.17
18	13.46	28.81	54	21.40
19	12.33	29.00	50	21.71
20	11.55	29.12	44	22.04
21	10.60	29.14	41	22.12
22	9.59	29.25	36	22.44
23	8.72	29.30	35	22.55
24	7.45	29.44	33	22.79
25	6.42	29.60	32	23.13
26	5.62	29.71	29	23.29
27	4.84	29.77	27	23.42
28	3.35	30.10	23	23.75
29	2.49	30.29	19	24.06
30	1.86	30.35	17	24.16
31	1.08	30.53	15	24.36
32	0.93	30.59	15	24.50
33	0.91	30.56	13	24.48
34	0.79	30.54	13	24.42

Survey 95-04

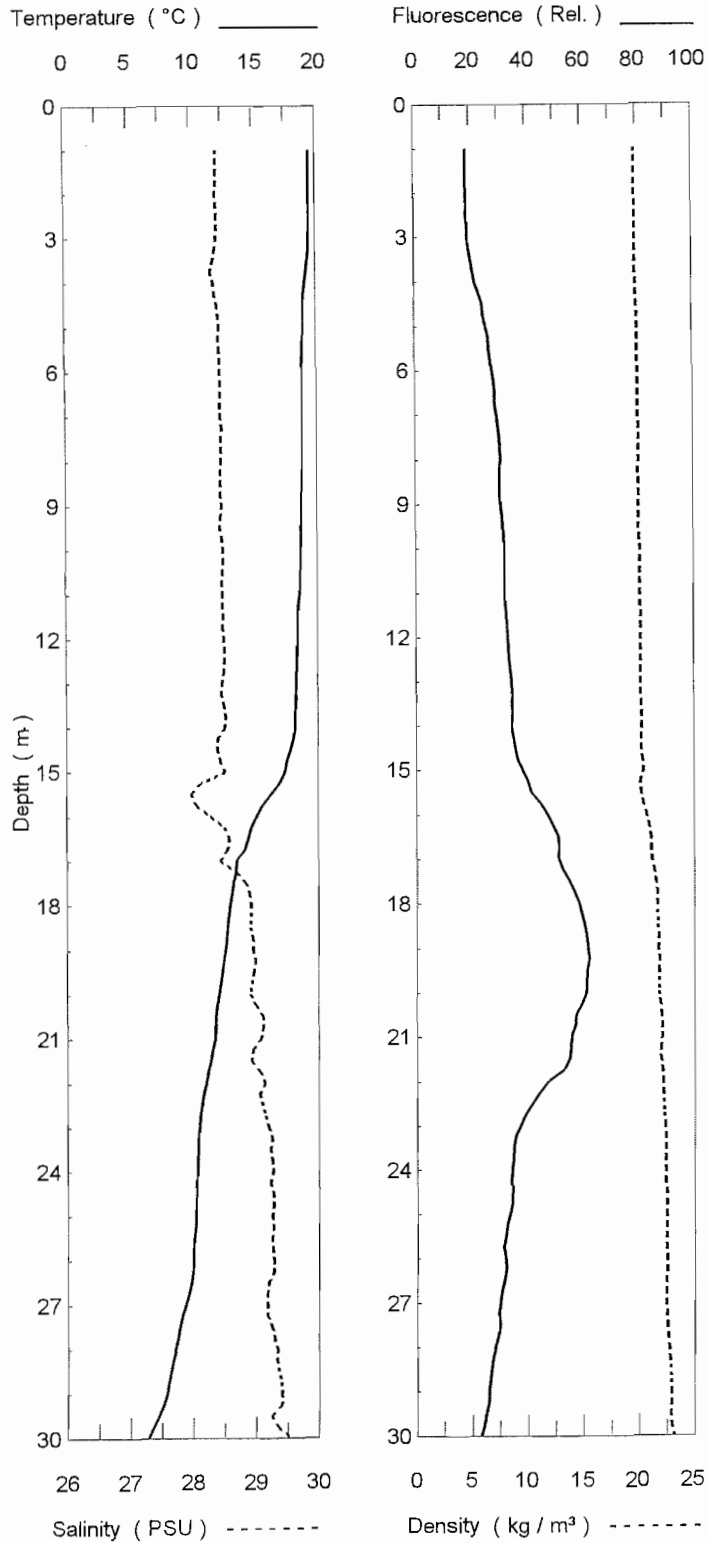
STATION 5



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.94	28.38	16	19.67
2	19.92	28.39	16	19.76
3	19.89	28.39	16	19.75
4	19.78	28.33	18	19.75
5	19.65	28.38	20	19.80
6	19.58	28.40	22	19.84
7	19.53	28.39	24	19.84
8	19.39	28.35	27	19.84
9	19.26	28.38	29	19.90
10	19.22	28.38	31	19.92
11	19.20	28.38	34	19.92
12	19.19	28.39	35	19.93
13	19.18	28.39	36	19.93
14	19.05	28.38	39	19.87
15	17.04	27.95	47	19.89
16	14.79	28.51	53	20.92
17	13.92	28.64	54	21.28
18	13.34	28.79	52	21.52
19	12.59	28.83	52	21.65
20	11.54	28.85	52	21.80
21	10.21	28.89	45	21.99
22	8.61	28.99	39	22.42
23	7.79	29.39	35	22.85
24	7.01	29.30	35	22.88
25	4.97	28.44	34	22.79
26	3.45	29.71	31	23.56
27	2.70	29.89	26	23.85
28	2.27	30.22	22	24.11
29	1.87	30.21	19	24.16
30	1.69	30.37	18	24.27
31	1.50	30.38	17	24.30
32	1.17	30.37	16	24.30
33	0.66	30.53	15	24.42
34	0.29	30.67	14	24.59
35	0.12	30.74	13	24.65
36	-0.14	30.83	13	24.76
37	-0.22	30.94	13	24.83
38	-0.21	30.92	12	24.83

Survey 95-04

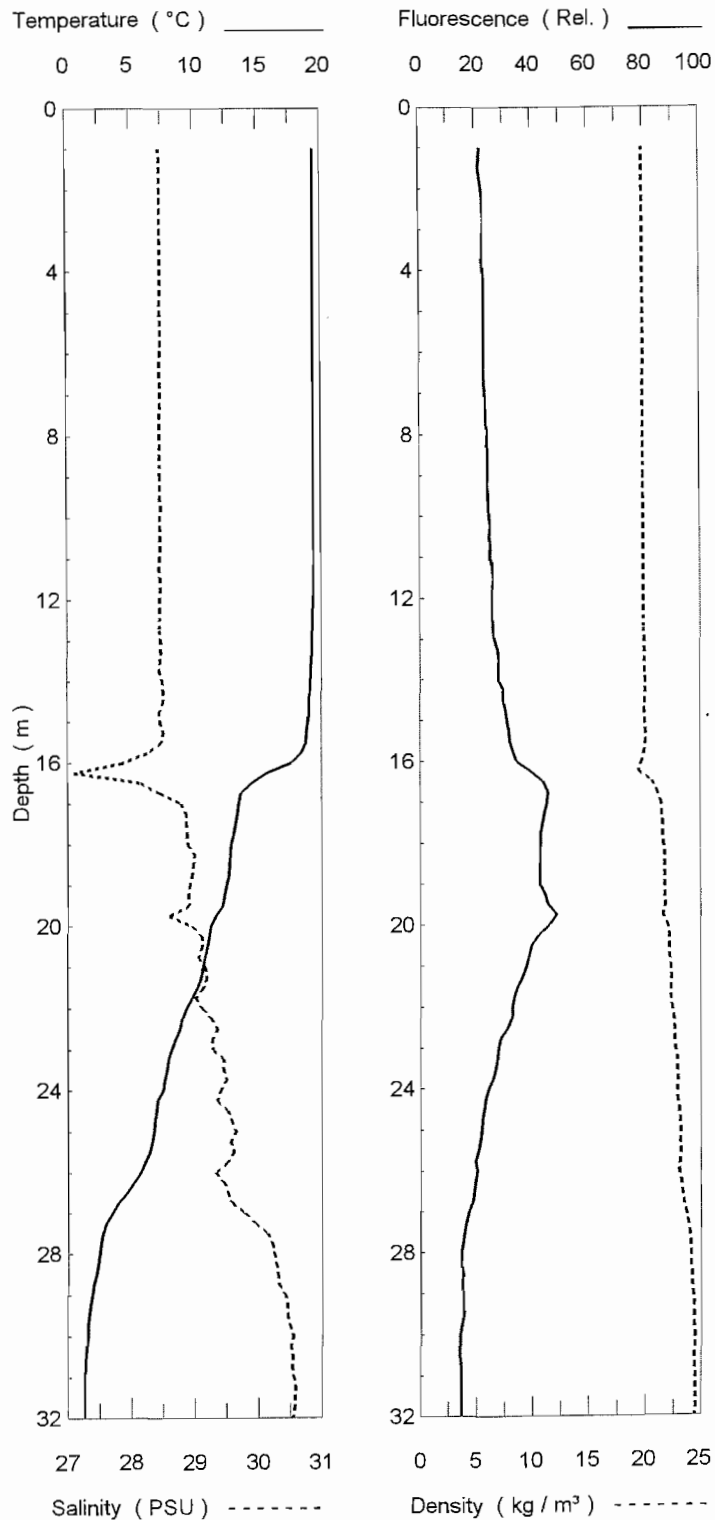
STATION 6



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.55	28.43	19	19.90
2	19.48	28.47	19	19.89
3	19.46	28.41	19	19.88
4	19.15	28.41	22	19.91
5	18.96	28.46	26	20.03
6	18.90	28.47	28	20.06
7	18.86	28.48	29	20.07
8	18.86	28.48	30	20.08
9	18.81	28.49	31	20.09
10	18.68	28.50	32	20.13
11	18.55	28.51	32	20.16
12	18.42	28.52	33	20.21
13	18.30	28.52	34	20.22
14	18.11	28.50	35	20.24
15	17.28	28.45	38	20.30
16	15.18	28.55	47	20.67
17	13.79	28.82	52	21.27
18	13.00	28.98	58	21.67
19	12.58	29.02	61	21.80
20	12.07	29.08	60	21.89
21	11.71	29.10	56	22.02
22	11.02	29.18	48	22.13
23	10.52	29.26	38	22.33
24	10.33	29.28	34	22.42
25	10.19	29.29	33	22.44
26	9.98	29.29	32	22.48
27	9.40	29.33	30	22.49
28	8.58	29.44	28	22.72
29	7.80	29.51	26	22.89
30	6.52	29.67	23	22.99

Survey 95-04

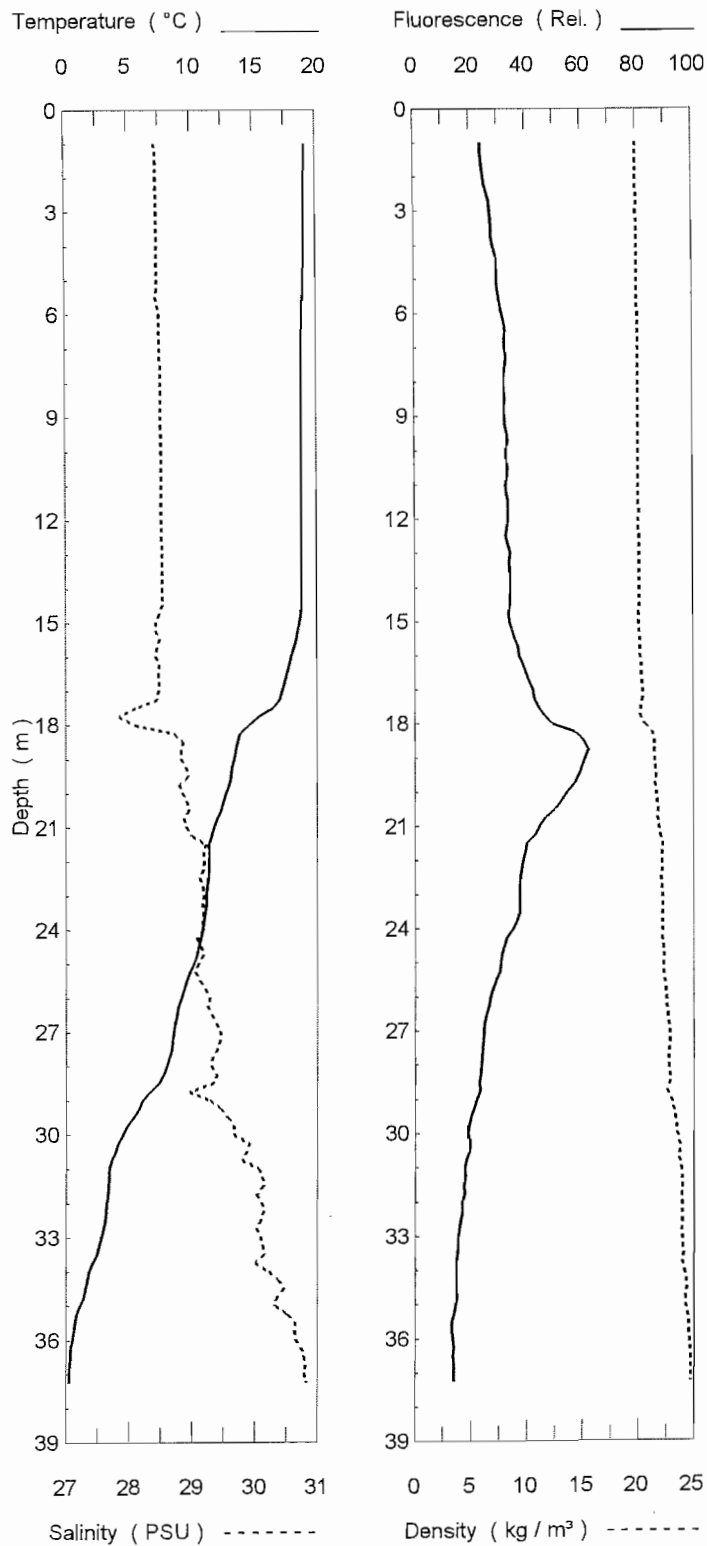
STATION 7



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.47	28.48	21	19.93
2	19.47	28.48	23	19.93
3	19.47	28.48	23	19.93
4	19.47	28.48	23	19.93
5	19.47	28.47	23	19.93
6	19.47	28.48	23	19.93
7	19.46	28.48	24	19.93
8	19.46	28.47	24	19.93
9	19.44	28.47	24	19.93
10	19.44	28.47	25	19.94
11	19.43	28.46	25	19.92
12	19.38	28.45	26	19.93
13	19.27	28.47	27	19.98
14	19.13	28.48	28	20.02
15	18.95	28.45	31	20.04
16	18.31	28.17	34	19.98
17	13.53	28.84	45	21.53
18	12.99	28.89	43	21.67
19	12.61	28.92	43	21.76
20	11.36	29.05	44	22.09
21	10.67	29.16	38	22.29
22	9.40	29.25	32	22.56
23	8.33	29.29	28	22.75
24	7.58	29.41	25	22.94
25	6.79	29.64	22	23.23
26	5.96	29.29	20	23.05
27	3.68	29.80	17	23.68
28	2.47	30.26	14	24.14
29	1.93	30.41	15	24.30
30	1.53	30.52	14	24.42
31	1.36	30.55	15	24.45
32	1.33	30.54	14	24.44

Survey 95-04

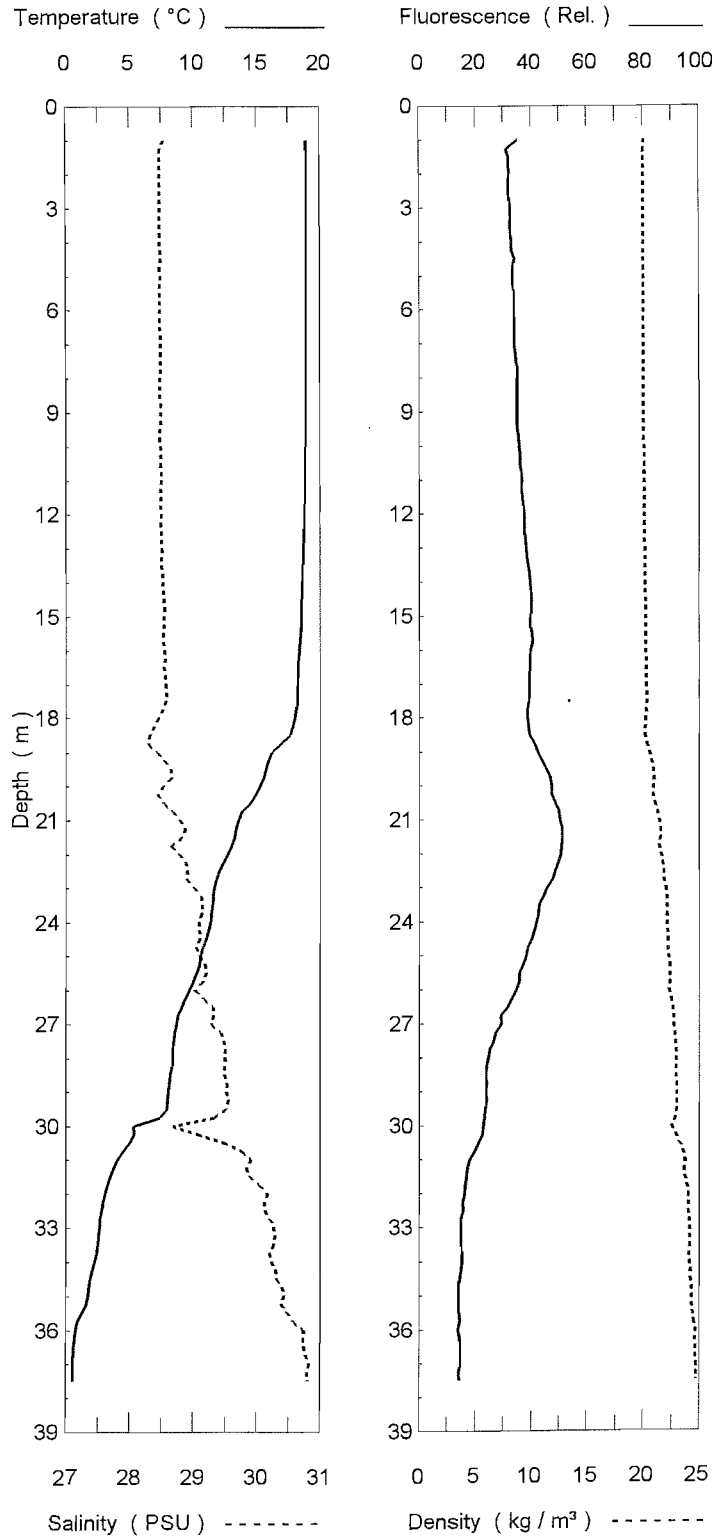
STATION 8



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.17	28.45	24	19.97
2	19.10	28.47	25	20.01
3	19.07	28.47	27	20.02
4	19.04	28.48	29	20.03
5	18.99	28.47	30	20.04
6	18.88	28.50	32	20.08
7	18.84	28.52	33	20.11
8	18.83	28.52	32	20.12
9	18.82	28.53	33	20.12
10	18.82	28.53	33	20.13
11	18.81	28.53	33	20.13
12	18.81	28.53	33	20.13
13	18.79	28.54	34	20.15
14	18.78	28.54	34	20.15
15	18.62	28.52	34	20.12
16	18.01	28.54	38	20.25
17	17.22	28.50	42	20.42
18	14.76	28.65	51	20.76
19	13.42	28.94	61	21.55
20	12.80	28.98	55	21.67
21	11.82	29.11	45	21.92
22	11.38	29.21	39	22.20
23	11.20	29.21	38	22.20
24	10.85	29.21	35	22.24
25	10.12	29.25	31	22.32
26	9.18	29.37	27	22.58
27	8.60	29.47	25	22.80
28	7.97	29.47	24	22.85
29	6.25	29.63	22	22.99
30	4.54	29.94	19	23.54
31	3.55	30.12	18	23.84
32	3.24	30.14	17	23.97
33	2.79	30.18	16	23.98
34	1.89	30.36	15	24.15
35	1.11	30.58	14	24.36
36	0.49	30.76	13	24.60
37	0.26	30.84	14	24.73

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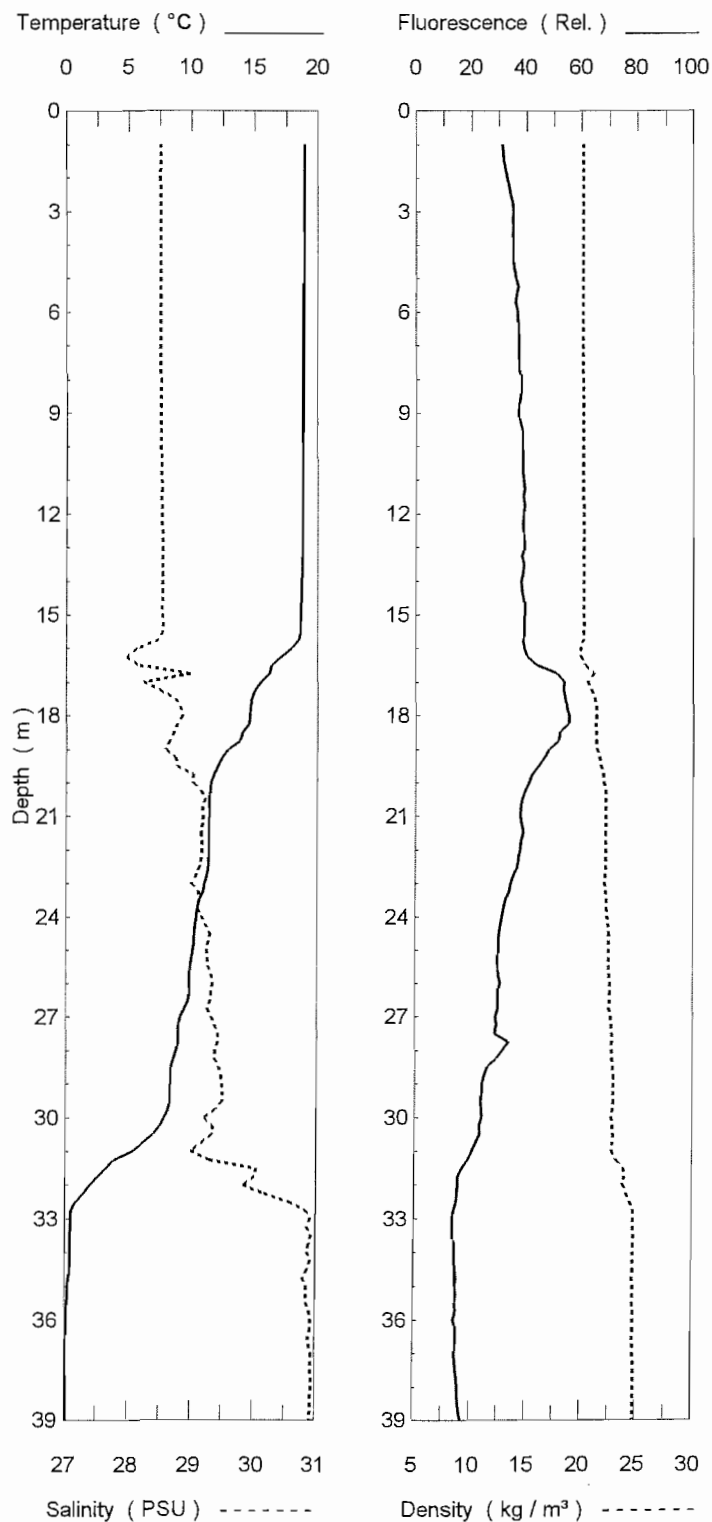
STATION 9



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	18.96	28.20	35	19.95
2	18.96	28.46	31	20.05
3	18.95	28.48	32	20.06
4	18.94	28.49	33	20.06
5	18.94	28.49	34	20.07
6	18.93	28.49	34	20.07
7	18.93	28.49	34	20.07
8	18.94	28.49	35	20.07
9	18.92	28.49	35	20.07
10	18.88	28.49	36	20.08
11	18.85	28.50	36	20.09
12	18.79	28.50	37	20.11
13	18.70	28.52	38	20.14
14	18.61	28.54	40	20.17
15	18.54	28.55	40	20.21
16	18.38	28.57	40	20.24
17	18.26	28.58	39	20.29
18	17.97	28.50	39	20.24
19	16.30	28.72	43	20.57
20	15.23	28.71	47	20.95
21	13.68	28.91	50	21.40
22	12.69	28.98	50	21.62
23	11.64	29.17	46	21.98
24	11.33	29.18	42	22.15
25	10.63	29.25	38	22.26
26	9.68	29.32	34	22.40
27	8.73	29.48	29	22.75
28	8.34	29.53	25	22.90
29	8.05	29.55	24	22.97
30	6.48	29.65	23	22.87
31	4.03	30.10	18	23.68
32	3.05	30.24	16	23.98
33	2.65	30.30	15	24.12
34	2.23	30.35	15	24.15
35	1.69	30.47	14	24.31
36	0.82	30.76	14	24.58
37	0.59	30.82	15	24.69
38	0.54	30.79	15	24.72

Survey 95-04

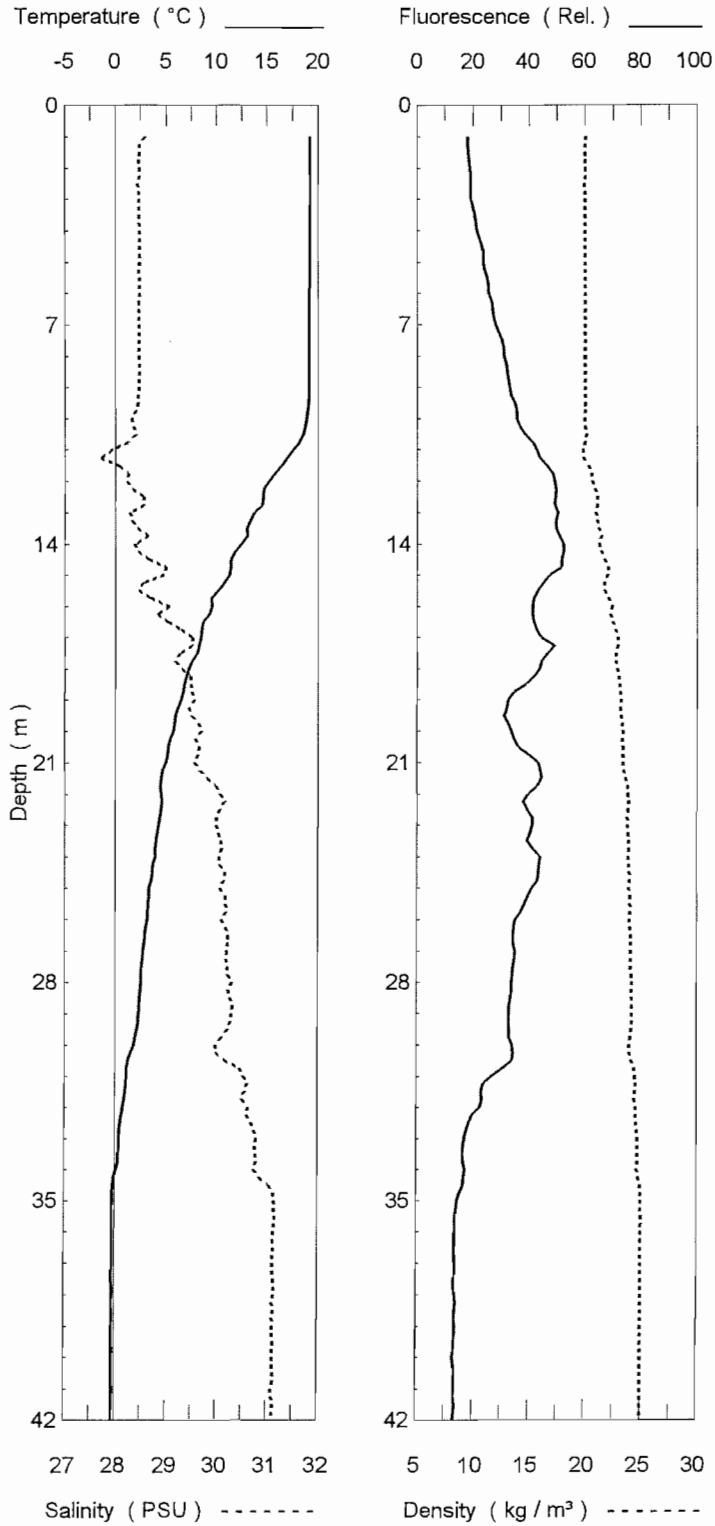
STATION 10



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	18.92	25.50	31	19.95
2	18.92	28.50	32	20.07
3	18.91	28.50	35	20.08
4	18.92	28.50	35	20.08
5	18.92	28.50	36	20.08
6	18.91	28.50	36	20.09
7	18.91	28.50	37	20.09
8	18.90	28.50	38	20.09
9	18.91	28.50	37	20.09
10	18.89	28.51	38	20.09
11	18.86	28.52	39	20.11
12	18.82	28.53	39	20.12
13	18.78	28.53	39	20.14
14	18.75	28.54	38	20.15
15	18.67	28.54	39	20.17
16	17.79	28.52	40	20.06
17	15.51	28.72	52	20.80
18	14.53	28.84	54	21.27
19	13.02	28.91	49	21.46
20	11.68	29.13	41	22.02
21	11.41	29.19	38	22.17
22	11.37	29.17	38	22.17
23	11.07	29.14	35	22.14
24	10.40	29.25	31	22.34
25	10.10	29.30	30	22.45
26	9.85	29.33	30	22.54
27	9.27	29.39	30	22.62
28	8.74	29.44	30	22.75
29	8.34	29.50	25	22.90
30	7.85	29.47	24	22.83
31	4.98	29.85	20	23.11
32	1.99	30.40	16	24.04
33	0.42	30.93	14	24.75
34	0.42	30.89	15	24.77
35	0.28	30.90	15	24.74
36	0.17	30.93	15	24.80
37	0.09	30.94	15	24.81
38	0.08	30.94	16	24.82
39	0.08	30.92	17	24.81

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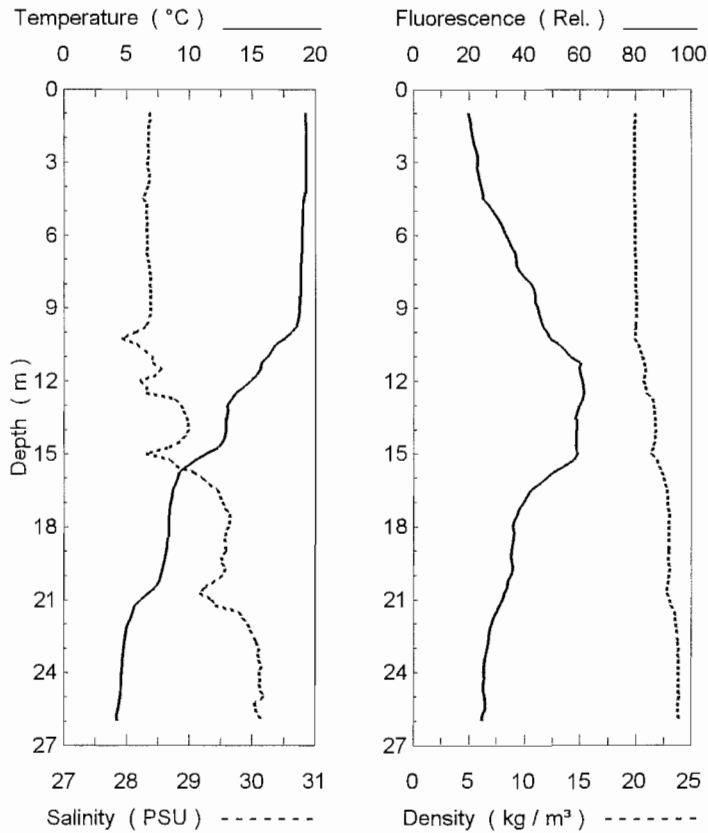
STATION 11



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.26	28.58	18	19.81
2	19.25	28.50	19	19.98
3	19.21	28.46	20	19.98
4	19.19	28.47	22	19.99
5	19.18	28.47	24	19.99
6	19.18	28.47	26	19.99
7	19.16	28.47	28	19.99
8	19.15	28.46	31	20.00
9	19.12	28.46	33	20.00
10	18.85	28.43	36	19.98
11	17.60	28.32	42	20.02
12	15.26	28.59	49	20.67
13	14.06	28.62	49	21.16
14	12.49	28.84	51	21.46
15	11.14	29.00	48	21.88
16	9.46	29.10	42	22.18
17	8.46	29.46	45	22.79
18	7.34	29.52	43	22.89
19	6.42	29.66	33	23.15
20	5.68	29.76	33	23.36
21	4.94	29.79	42	23.43
22	4.55	30.05	40	23.80
23	4.25	30.11	41	23.80
24	3.82	30.16	42	23.90
25	3.40	30.22	41	23.98
26	3.10	30.21	36	24.01
27	2.74	30.27	34	24.09
28	2.49	30.30	34	24.13
29	2.31	30.32	33	24.17
30	1.72	30.34	34	24.04
31	1.10	30.58	27	24.46
32	0.75	30.66	22	24.51
33	0.39	30.80	17	24.68
34	0.11	30.89	17	24.72
35	-0.29	31.16	15	25.00
36	-0.28	31.13	14	25.00
37	-0.29	31.13	14	24.99
38	-0.30	31.14	14	25.00
39	-0.30	31.12	14	24.99
40	-0.31	31.13	13	24.99
41	-0.31	31.11	14	24.98
42	-0.32	31.13	14	24.99

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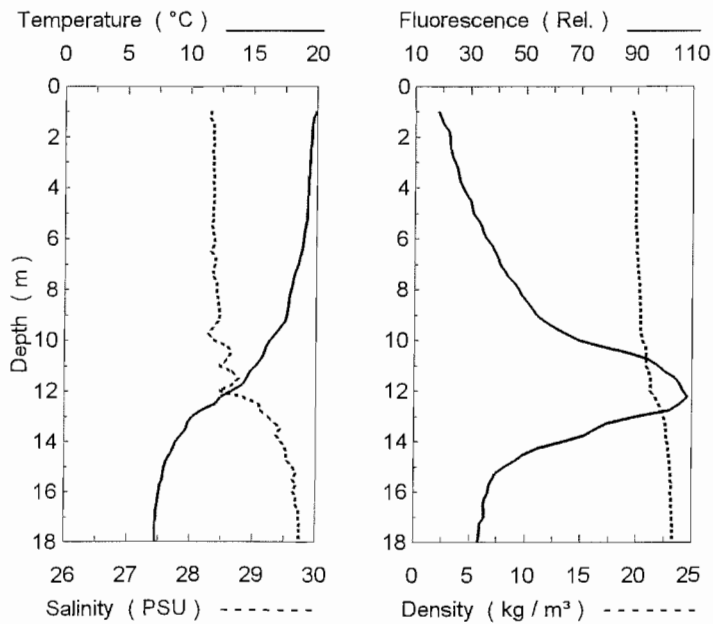
STATION 12



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	19.25	28.35	20	19.89
2	19.26	28.35	21	19.88
3	19.24	28.35	23	19.89
4	19.21	28.33	24	19.87
5	19.03	28.33	28	19.90
6	18.96	28.33	33	19.93
7	18.89	28.35	37	19.97
8	18.82	28.38	42	20.01
9	18.75	28.38	45	20.03
10	17.96	28.33	48	19.97
11	16.21	28.56	56	20.58
12	14.79	28.66	61	20.83
13	13.09	29.00	60	21.58
14	12.88	28.94	58	21.73
15	11.21	29.02	58	21.66
16	9.10	29.46	48	22.51
17	8.54	29.61	40	22.90
18	8.38	29.62	36	22.98
19	8.15	29.60	35	22.98
20	7.72	29.55	35	22.96
21	6.23	29.73	32	23.03
22	5.15	30.05	28	23.60
23	4.76	30.14	26	23.81
24	4.59	30.15	25	23.85
25	4.45	30.14	26	23.85
26	4.20	30.19	25	23.90

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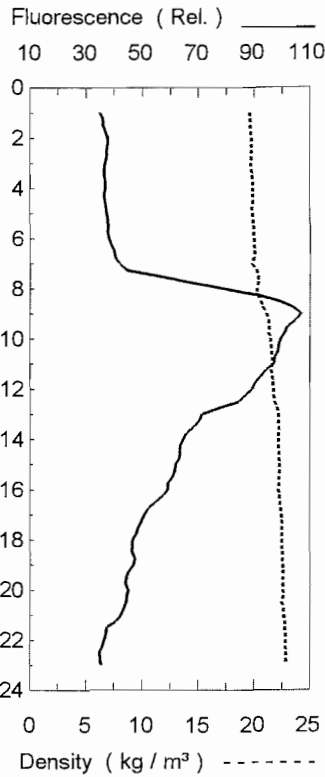
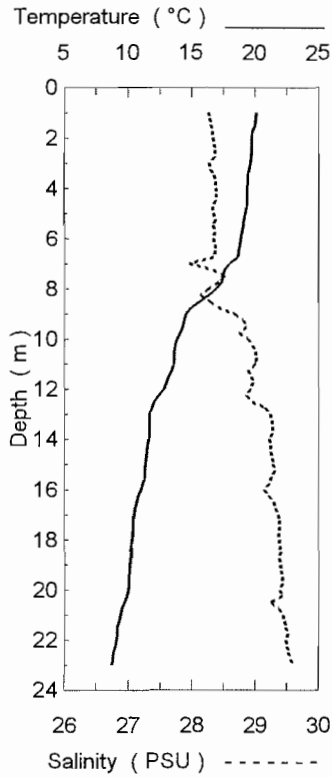
STATION 13



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	19.97	28.32	18	19.61
2	19.58	28.37	22	19.81
3	19.45	28.37	24	19.84
4	19.34	28.38	27	19.88
5	19.24	28.37	32	19.89
6	19.00	28.38	36	19.95
7	18.55	28.42	41	20.05
8	18.00	28.46	47	20.23
9	17.64	28.48	55	20.33
10	16.39	28.59	72	20.60
11	15.21	28.73	97	20.98
12	13.31	28.92	107	21.41
13	10.44	29.37	88	22.34
14	8.97	29.55	63	22.75
15	8.04	29.68	43	23.03
16	7.55	29.72	36	23.15
17	7.32	29.75	35	23.23
18	7.27	29.75	33	23.25

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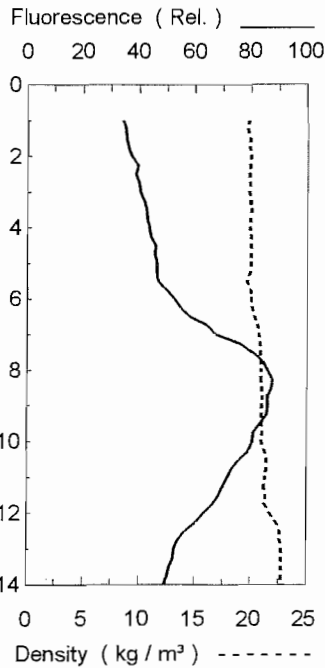
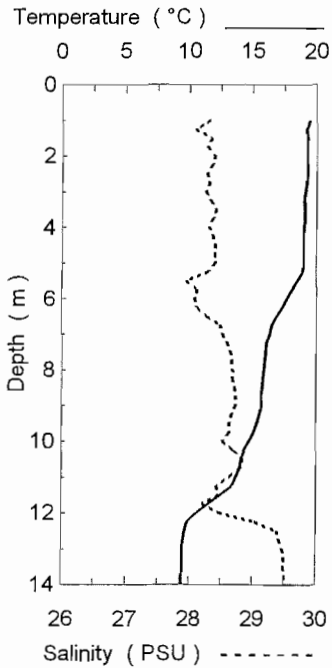
STATION 14



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	20.10	28.28	35	19.60
2	19.80	28.36	37	19.73
3	19.63	28.35	37	19.77
4	19.42	28.39	37	19.86
5	19.24	28.38	37	19.88
6	18.86	28.40	39	19.98
7	18.07	28.40	44	20.05
8	16.75	28.47	79	20.38
9	14.68	28.85	105	21.08
10	13.89	28.98	100	21.48
11	13.48	29.03	96	21.63
12	12.67	29.08	89	21.72
13	11.69	29.27	73	22.14
14	11.56	29.27	65	22.20
15	11.34	29.30	62	22.27
16	10.99	29.28	58	22.25
17	10.49	29.40	51	22.46
18	10.31	29.41	47	22.52
19	10.13	29.43	46	22.56
20	9.98	29.42	44	22.60
21	9.41	29.51	42	22.67
22	9.07	29.55	37	22.80
23	8.70	29.63	35	22.92

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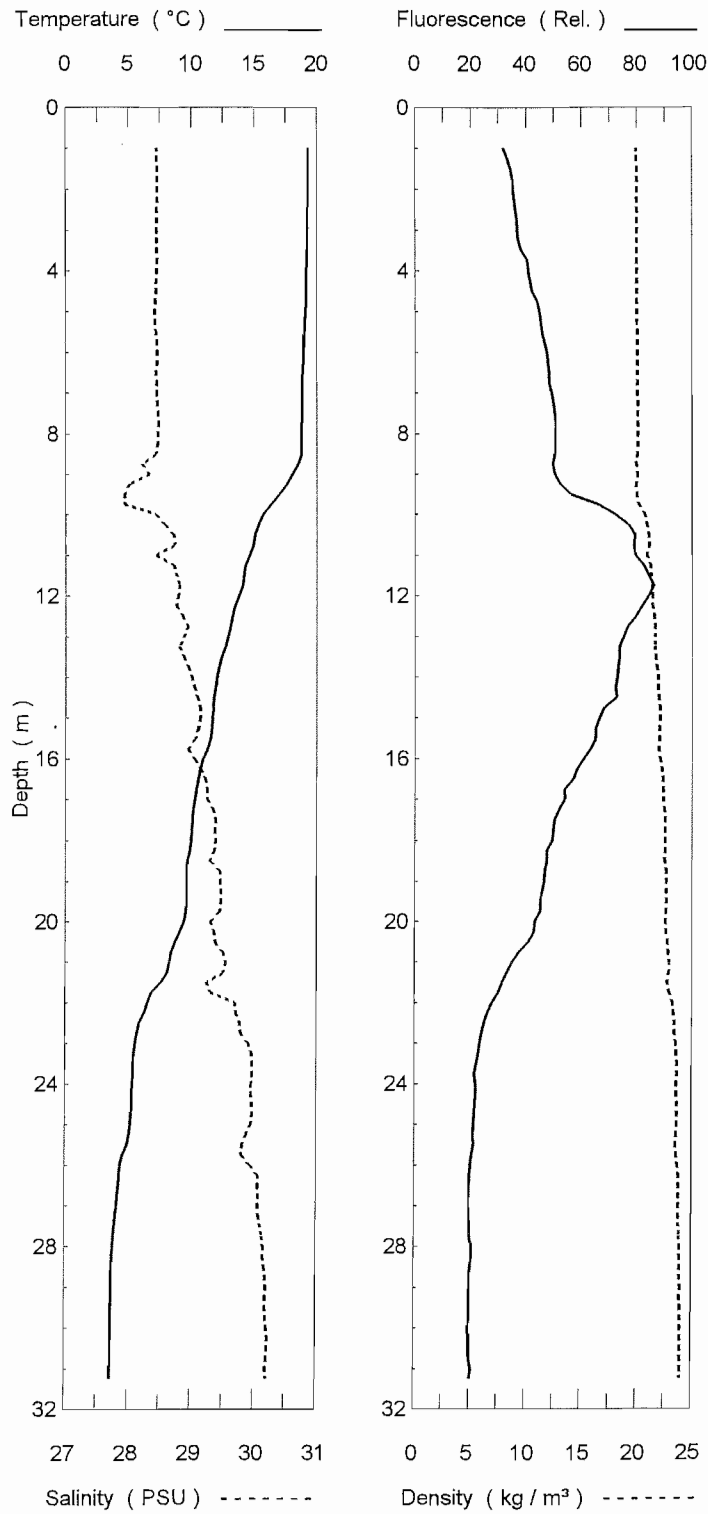
STATION 15



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	19.43	28.32	34	19.77
2	19.27	28.34	37	19.88
3	19.15	28.36	41	19.88
4	19.03	28.38	44	19.95
5	18.91	28.31	46	19.91
6	17.68	28.37	52	19.99
7	16.29	28.68	69	20.66
8	15.87	28.73	87	20.93
9	15.64	28.73	86	20.98
10	14.75	28.80	80	21.08
11	13.55	28.78	72	21.27
12	10.73	29.17	63	21.80
13	9.41	29.54	52	22.79
14	9.39	29.52	50	22.75

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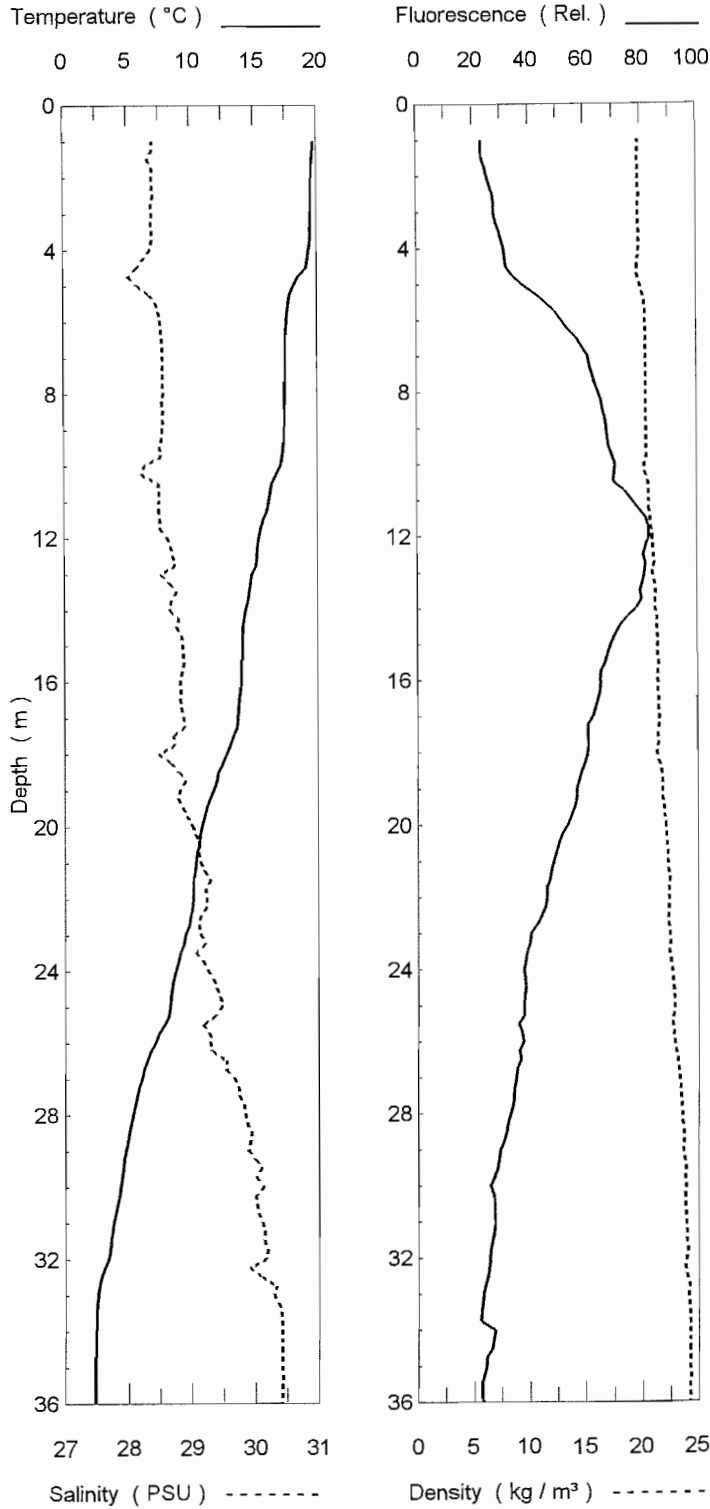
STATION 16



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.29	28.45	32	19.95
2	19.28	28.46	35	19.96
3	19.24	28.46	37	19.96
4	19.20	28.45	41	19.98
5	19.07	28.44	45	19.98
6	18.91	28.46	47	20.05
7	18.83	28.46	49	20.07
8	18.79	28.46	51	20.09
9	18.01	28.30	51	19.98
10	15.84	28.52	71	20.60
11	14.60	28.83	82	21.22
12	13.79	28.90	84	21.42
13	12.90	28.98	75	21.68
14	12.08	29.09	73	21.91
15	11.68	29.13	67	22.08
16	10.97	29.17	61	22.15
17	10.31	29.35	54	22.44
18	9.97	29.41	49	22.57
19	9.66	29.47	47	22.68
20	9.34	29.46	44	22.67
21	8.24	29.57	36	22.88
22	6.60	29.80	28	23.20
23	5.62	29.96	24	23.55
24	5.37	29.98	22	23.65
25	5.20	29.96	21	23.64
26	4.51	30.04	20	23.71
27	4.13	30.13	20	23.87
28	3.86	30.19	21	23.95
29	3.72	30.21	20	23.99
30	3.66	30.22	20	24.01
31	3.65	30.22	20	24.01

Survey 95-04

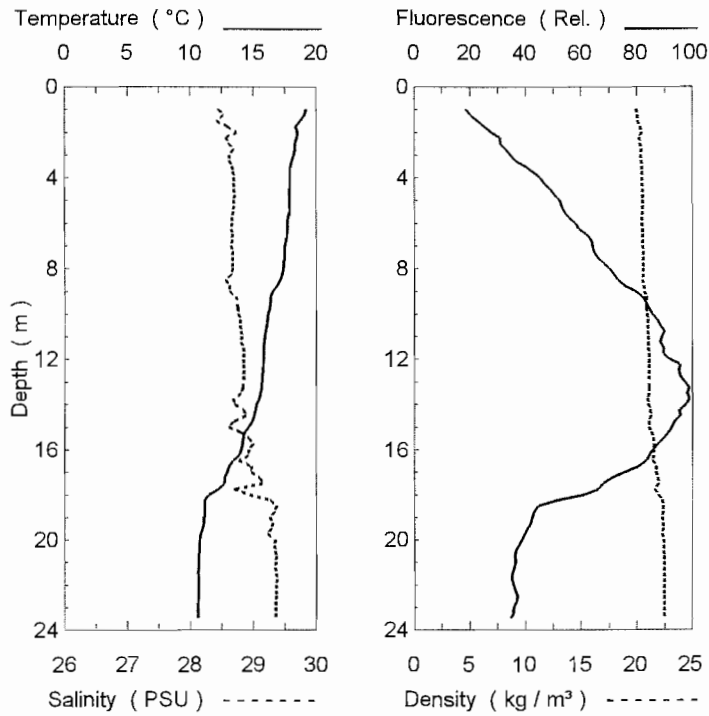
STATION 17



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.76	28.39	23	19.78
2	19.61	28.41	25	19.83
3	19.55	28.41	28	19.84
4	19.38	28.33	31	19.82
5	18.19	28.46	38	19.92
6	17.59	28.57	52	20.41
7	17.51	28.57	61	20.46
8	17.48	28.57	65	20.47
9	17.42	28.55	68	20.47
10	16.97	28.51	70	20.42
11	16.12	28.61	77	20.69
12	15.41	28.72	82	20.95
13	14.90	28.75	81	21.07
14	14.33	28.82	77	21.26
15	14.04	28.89	69	21.44
16	13.93	28.88	65	21.45
17	13.65	28.88	63	21.49
18	12.72	28.91	60	21.50
19	11.70	29.01	57	21.84
20	10.80	29.13	53	22.13
21	10.36	29.23	49	22.33
22	10.11	29.25	46	22.42
23	9.58	29.25	41	22.43
24	8.73	29.40	38	22.62
25	8.21	29.46	38	22.81
26	7.06	29.57	37	22.87
27	6.00	29.83	35	23.31
28	5.32	29.97	33	23.55
29	4.76	30.05	30	23.67
30	4.35	30.12	27	23.82
31	3.79	30.21	27	23.90
32	3.33	30.23	26	23.95
33	2.55	30.42	24	24.16
34	2.41	30.44	26	24.28
35	2.36	30.43	24	24.28
36	2.34	30.43	23	24.28

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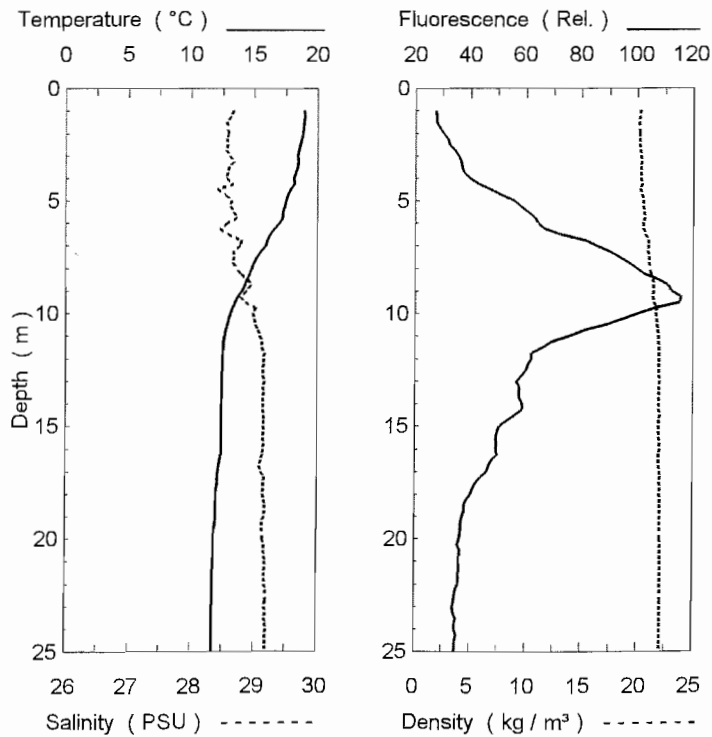
STATION 18



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	19.38	28.51	19	19.79
2	18.53	28.65	28	20.23
3	18.19	28.67	35	20.35
4	17.92	28.70	45	20.46
5	17.86	28.70	52	20.49
6	17.74	28.68	57	20.48
7	17.54	28.68	64	20.53
8	17.36	28.67	70	20.56
9	16.64	28.74	79	20.71
10	16.19	28.80	86	20.92
11	15.95	28.84	89	21.00
12	15.81	28.86	93	21.06
13	15.69	28.85	97	21.08
14	15.31	28.84	97	21.12
15	14.62	28.84	93	21.22
16	13.97	28.96	86	21.46
17	12.92	29.08	76	21.75
18	11.70	29.17	59	21.98
19	11.10	29.32	43	22.33
20	10.81	29.35	39	22.38
21	10.68	29.36	36	22.44
22	10.66	29.37	36	22.45
23	10.64	29.36	36	22.45

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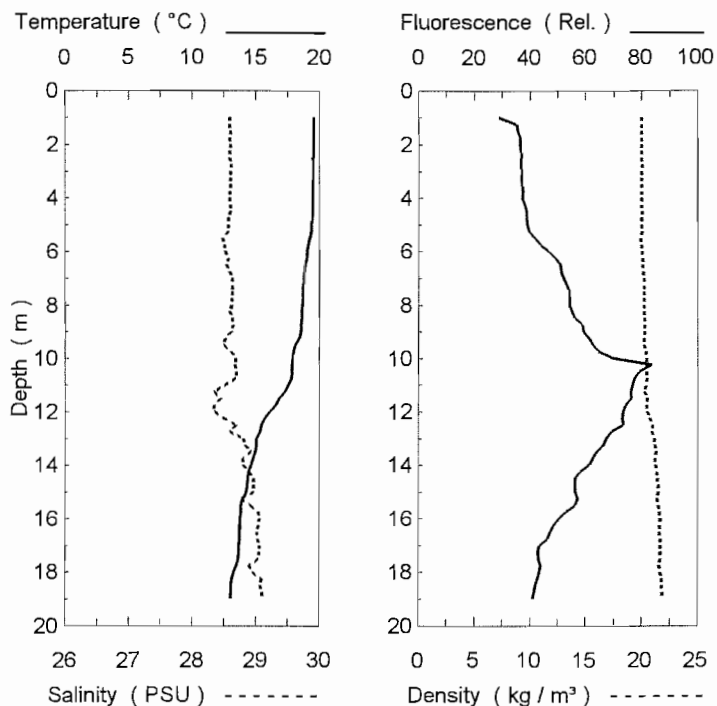
STATION 19



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	18.92	28.62	26	20.13
2	18.80	28.61	30	20.16
3	18.49	28.63	35	20.25
4	18.19	28.63	41	20.30
5	17.52	28.71	55	20.46
6	16.95	28.72	65	20.57
7	15.76	28.86	85	20.92
8	14.75	28.95	100	21.16
9	13.99	29.01	112	21.43
10	13.13	29.11	101	21.68
11	12.67	29.16	76	21.86
12	12.51	29.16	62	21.96
13	12.46	29.16	58	21.97
14	12.44	29.16	58	21.97
15	12.41	29.15	51	21.98
16	12.38	29.14	49	21.97
17	12.17	29.17	45	21.99
18	12.03	29.18	40	22.05
19	11.97	29.17	37	22.06
20	11.85	29.18	36	22.07
21	11.81	29.19	36	22.10
22	11.77	29.19	36	22.12
23	11.76	29.19	35	22.13
24	11.76	29.20	35	22.13
25	11.77	29.19	35	22.13

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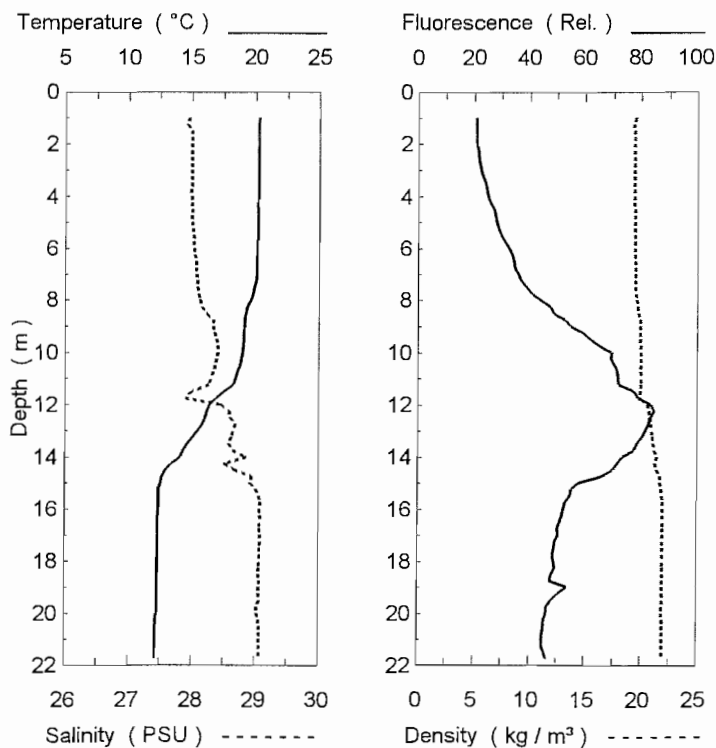
STATION 20



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	19.56	28.46	29	19.94
2	19.53	28.58	34	20.00
3	19.53	28.61	37	20.01
4	19.51	28.60	38	20.01
5	19.42	28.57	39	20.00
6	19.07	28.58	47	20.05
7	18.77	28.65	53	20.20
8	18.69	28.64	54	20.23
9	18.51	28.62	60	20.24
10	17.93	28.70	71	20.41
11	17.53	28.68	78	20.43
12	16.15	28.78	74	20.64
13	15.22	28.91	68	21.08
14	14.66	28.94	60	21.31
15	14.22	28.99	57	21.44
16	13.80	29.06	51	21.63
17	13.69	29.05	44	21.65
18	13.30	29.05	43	21.66
19	13.01	29.13	41	21.85

Survey 95-04

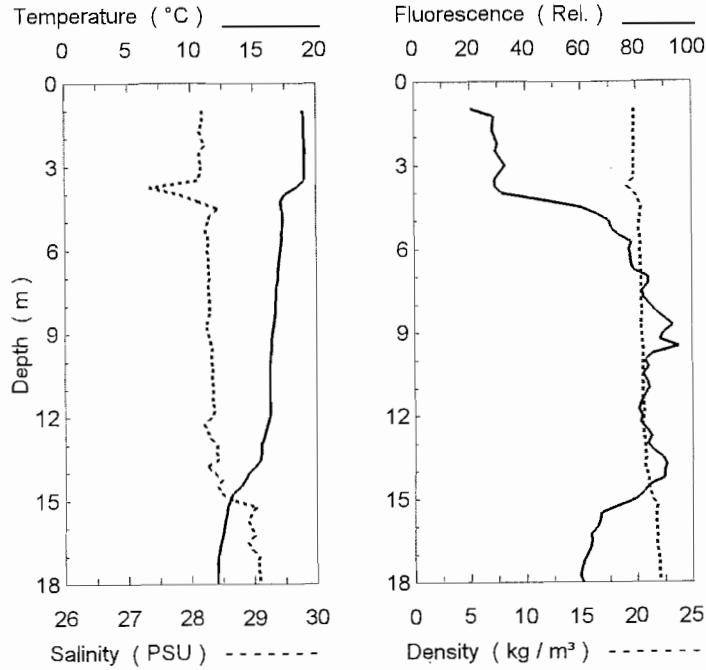
STATION 21



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	20.28	27.95	21	19.32
2	20.24	27.99	21	19.37
3	20.23	27.99	23	19.37
4	20.20	28.00	25	19.37
5	20.16	28.01	28	19.39
6	20.13	28.04	32	19.43
7	20.06	28.08	36	19.47
8	19.61	28.19	44	19.61
9	19.12	28.36	55	19.90
10	18.99	28.43	68	19.98
11	18.28	28.44	73	19.98
12	16.55	28.66	82	20.45
13	15.43	28.74	82	20.96
14	13.88	28.84	74	21.23
15	12.58	29.08	61	21.75
16	12.38	29.10	52	21.93
17	12.35	29.08	50	21.93
18	12.34	29.07	49	21.92
19	12.32	29.07	51	21.93
20	12.24	29.07	46	21.93
21	12.17	29.08	45	21.96
22	12.15	29.08	47	21.96

Survey 95-04

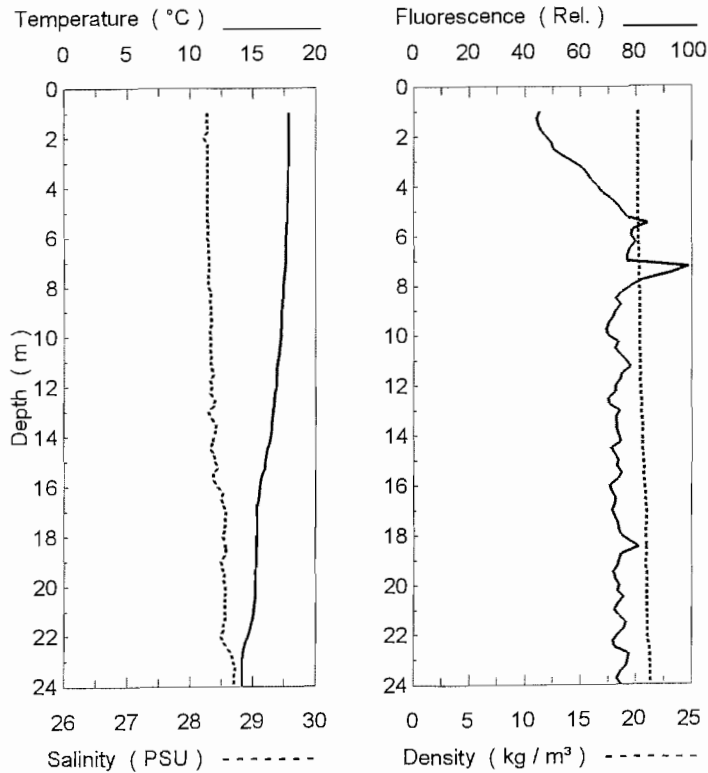
STATION 22



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	19.02	28.16	21	19.81
2	19.06	28.16	29	19.80
3	19.10	28.14	31	19.77
4	17.87	28.16	38	19.89
5	17.36	28.28	68	20.30
6	17.14	28.29	78	20.31
7	16.92	28.30	82	20.38
8	16.75	28.33	84	20.43
9	16.53	28.33	91	20.47
10	16.38	28.35	86	20.55
11	16.31	28.37	83	20.57
12	16.17	28.35	81	20.54
13	15.68	28.43	86	20.70
14	14.66	28.61	89	20.91
15	13.16	28.94	78	21.47
16	12.59	29.01	66	21.77
17	12.19	29.07	62	21.92
18	12.02	29.10	59	22.00

Survey 95-04

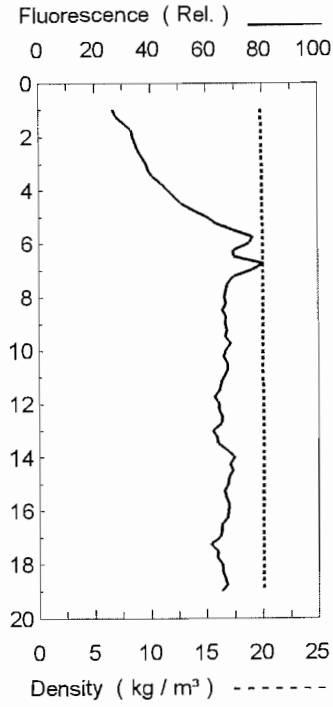
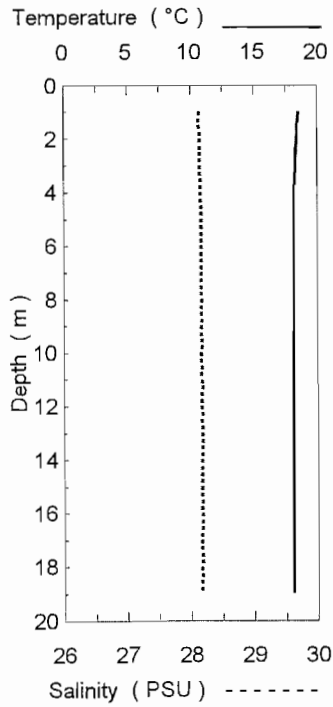
STATION 23



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	17.93	28.25	45	20.12
2	17.86	28.26	47	20.15
3	17.85	28.28	57	20.17
4	17.82	28.28	66	20.17
5	17.77	28.28	76	20.19
6	17.68	28.29	80	20.21
7	17.58	28.31	83	20.24
8	17.44	28.32	78	20.28
9	17.33	28.34	73	20.33
10	17.24	28.34	70	20.34
11	17.04	28.36	76	20.40
12	16.86	28.37	73	20.44
13	16.62	28.38	72	20.49
14	16.37	28.41	73	20.57
15	16.01	28.46	73	20.66
16	15.60	28.52	72	20.81
17	15.35	28.56	72	20.92
18	15.34	28.55	76	20.94
19	15.31	28.54	74	20.93
20	15.18	28.57	73	20.97
21	15.05	28.58	74	20.99
22	14.57	28.63	73	21.06
23	14.12	28.72	77	21.29
24	14.12	28.72	75	21.31

Survey 95-04

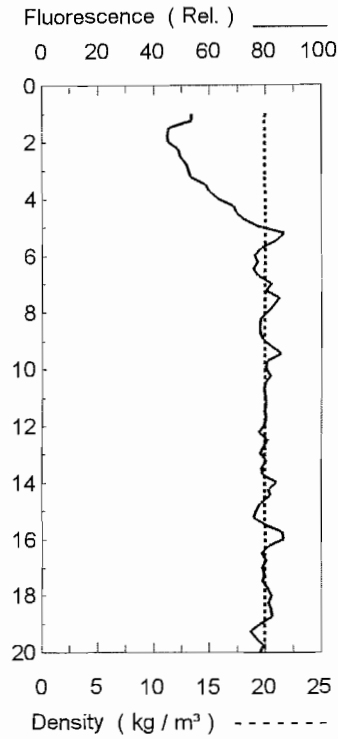
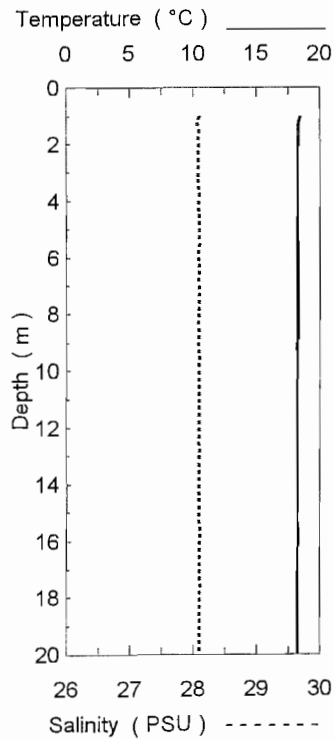
STATION 24



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	18.54	28.16	27	19.94
2	18.40	28.15	33	19.94
3	18.26	28.16	38	19.97
4	18.16	28.16	46	20.00
5	18.12	28.17	60	20.02
6	18.10	28.17	71	20.02
7	18.10	28.17	74	20.03
8	18.10	28.17	66	20.03
9	18.10	28.17	67	20.03
10	18.10	28.17	67	20.03
11	18.09	28.17	66	20.03
12	18.09	28.17	64	20.03
13	18.09	28.17	65	20.03
14	18.09	28.17	68	20.03
15	18.09	28.17	67	20.03
16	18.09	28.17	67	20.03
17	18.09	28.17	64	20.03
18	18.09	28.17	65	20.03
19	18.09	28.17	66	20.03

Survey 95-04

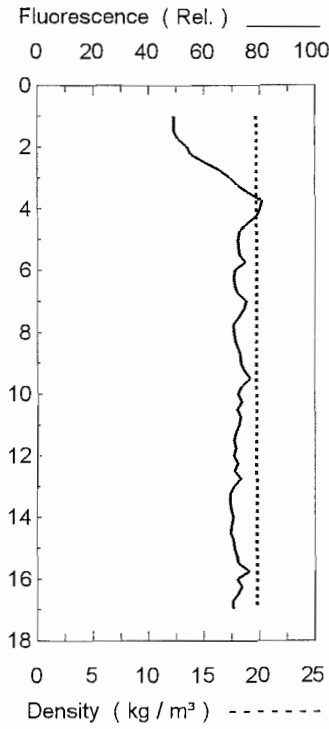
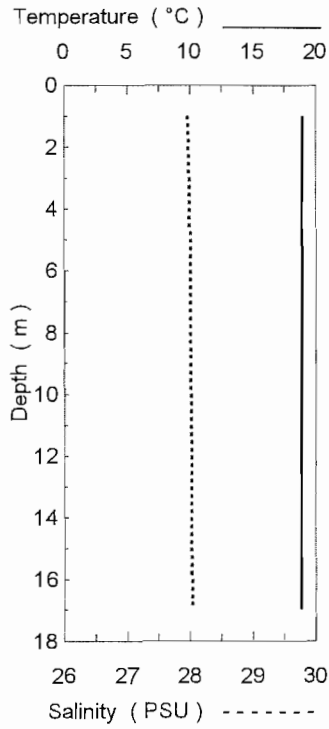
STATION 25



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	18.40	28.10	53	19.92
2	18.31	28.09	46	19.91
3	18.28	28.09	52	19.92
4	18.25	28.09	64	19.93
5	18.25	28.09	79	19.93
6	18.28	28.09	78	19.92
7	18.28	28.09	80	19.92
8	18.26	28.09	81	19.93
9	18.25	28.09	80	19.93
10	18.26	28.09	81	19.93
11	18.26	28.09	80	19.93
12	18.25	28.09	80	19.93
13	18.24	28.10	79	19.94
14	18.24	28.09	80	19.94
15	18.23	28.10	78	19.94
16	18.24	28.10	83	19.94
17	18.23	28.10	79	19.94
18	18.24	28.10	81	19.94
19	18.24	28.10	78	19.94
20	18.24	28.10	78	19.94

Survey 95-04

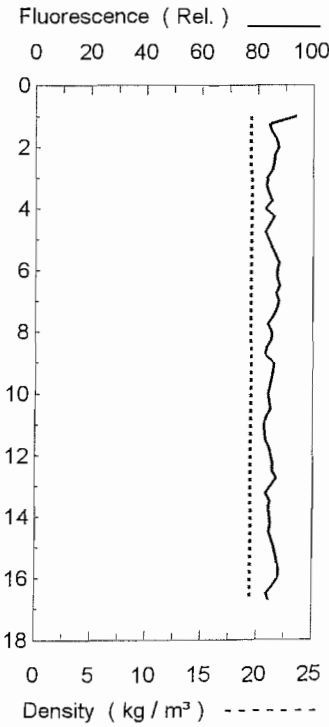
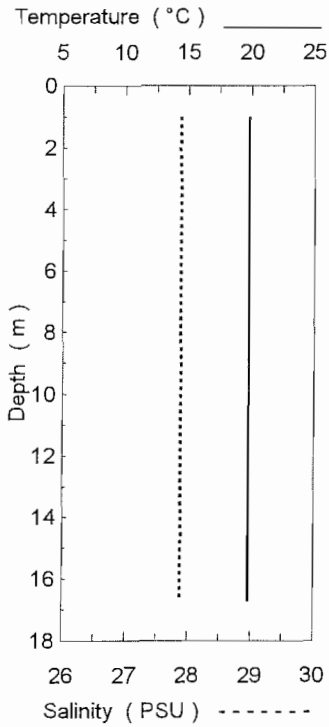
STATION 26



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	18.94	28.02	49	19.70
2	18.94	27.98	54	19.68
3	18.91	27.99	69	19.69
4	18.90	27.99	80	19.70
5	18.90	28.00	73	19.71
6	18.90	28.00	73	19.71
7	18.90	28.00	74	19.71
8	18.90	28.00	71	19.71
9	18.88	28.01	74	19.72
10	18.88	28.01	73	19.72
11	18.87	28.02	72	19.72
12	18.86	28.02	72	19.73
13	18.86	28.02	71	19.73
14	18.86	28.02	70	19.73
15	18.85	28.02	71	19.74
16	18.83	28.03	73	19.74
17	18.83	28.03	70	19.75

Survey 95-04

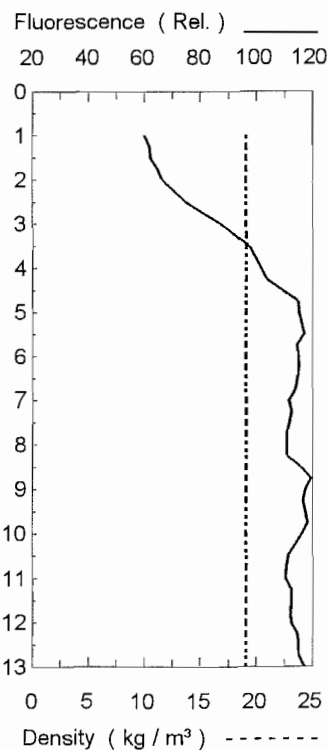
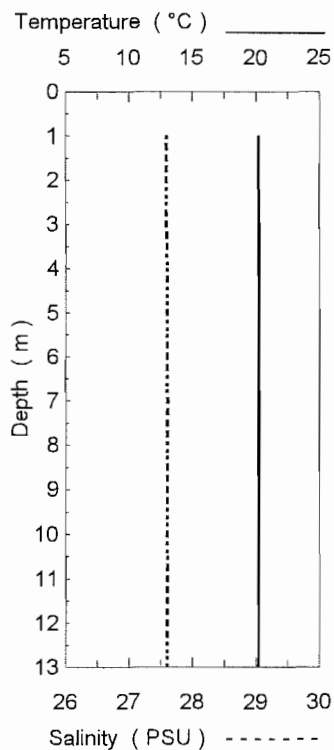
STATION 27



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.82	27.86	94	19.37
2	19.82	27.88	86	19.38
3	19.82	27.88	84	19.39
4	19.82	27.88	85	19.39
5	19.82	27.88	84	19.39
6	19.81	27.88	87	19.39
7	19.81	27.88	88	19.39
8	19.81	27.88	84	19.39
9	19.81	27.88	84	19.39
10	19.81	27.88	84	19.39
11	19.81	27.88	83	19.39
12	19.81	27.88	85	19.39
13	19.81	27.88	84	19.39
14	19.81	27.88	85	19.39
15	19.81	27.88	86	19.39
16	19.81	27.88	86	19.39
17	19.81	27.88	82	19.39

Survey 95-04

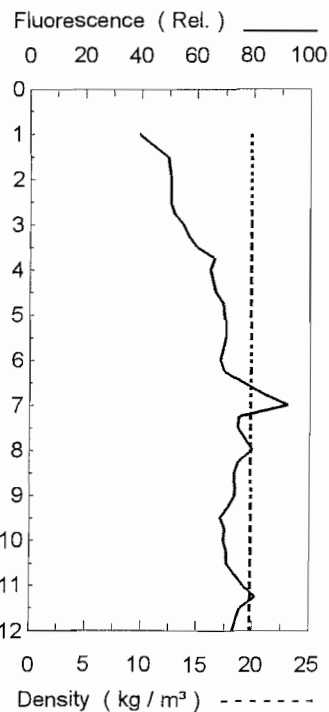
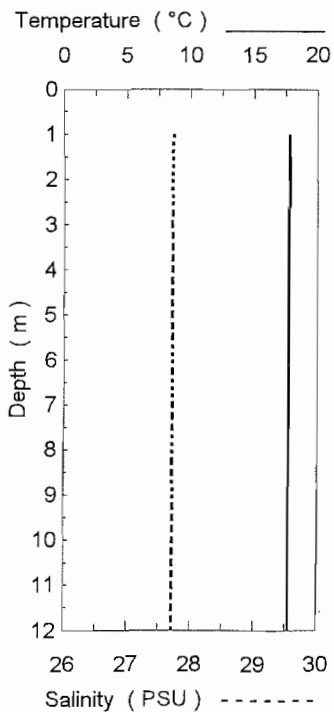
STATION 28



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	20.20	27.55	60	19.04
2	20.20	27.60	67	19.08
3	20.20	27.60	87	19.08
4	20.20	27.60	102	19.08
5	20.20	27.60	116	19.08
6	20.19	27.60	115	19.08
7	20.19	27.60	112	19.08
8	20.19	27.60	112	19.08
9	20.19	27.60	117	19.08
10	20.19	27.60	116	19.08
11	20.19	27.60	112	19.08
12	20.19	27.60	113	19.08
13	20.19	27.60	116	19.08

Survey 95-04

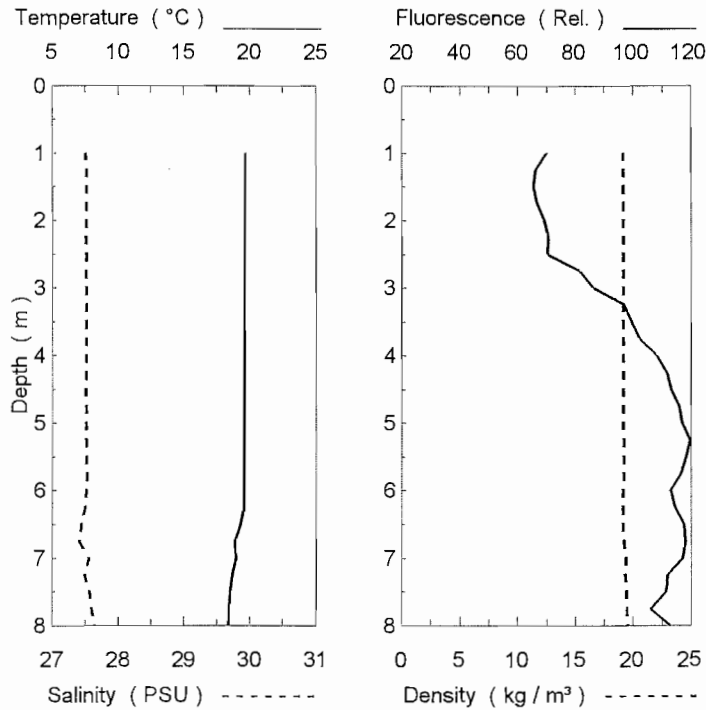
STATION 29



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.82	27.75	39	19.78
2	17.80	27.71	50	19.75
3	17.78	27.72	55	19.75
4	17.77	27.72	65	19.76
5	17.77	27.72	70	19.76
6	17.78	27.72	69	19.76
7	17.78	27.72	84	19.76
8	17.78	27.72	76	19.76
9	17.78	27.72	72	19.76
10	17.78	27.72	69	19.76
11	17.77	27.72	76	19.76
12	17.77	27.72	73	19.76

Survey 95-04

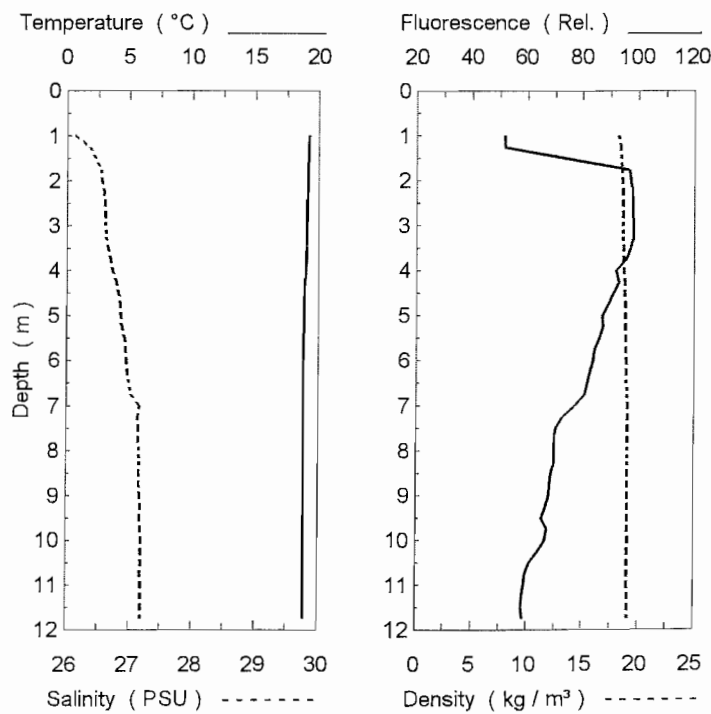
STATION 30



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.64	27.51	67	19.15
2	19.63	27.51	69	19.15
3	19.62	27.51	87	19.16
4	19.62	27.51	107	19.16
5	19.56	27.52	117	19.17
6	19.57	27.51	115	19.18
7	18.91	27.59	116	19.28
8	18.27	27.68	107	19.57

Survey 95-04

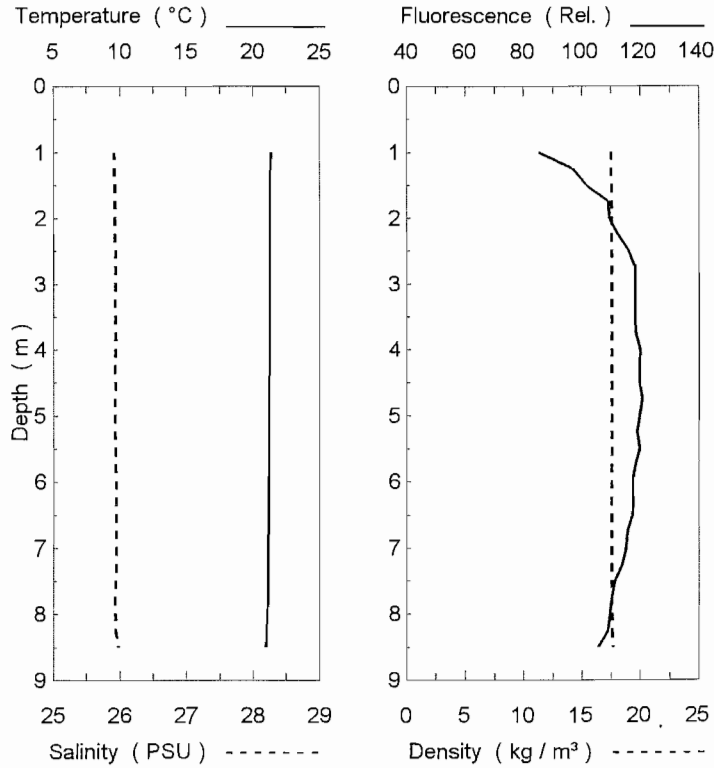
STATION 31



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.22	25.89	52	18.15
2	19.15	26.46	84	18.49
3	19.09	26.63	98	18.61
4	18.98	26.74	93	18.71
5	18.88	26.86	88	18.84
6	18.83	26.95	84	18.92
7	18.81	27.09	77	19.04
8	18.83	27.15	70	19.08
9	18.85	27.17	67	19.09
10	18.87	27.19	66	19.10
11	18.87	27.19	59	19.10
12	18.87	27.19	59	19.10

Survey 95-04

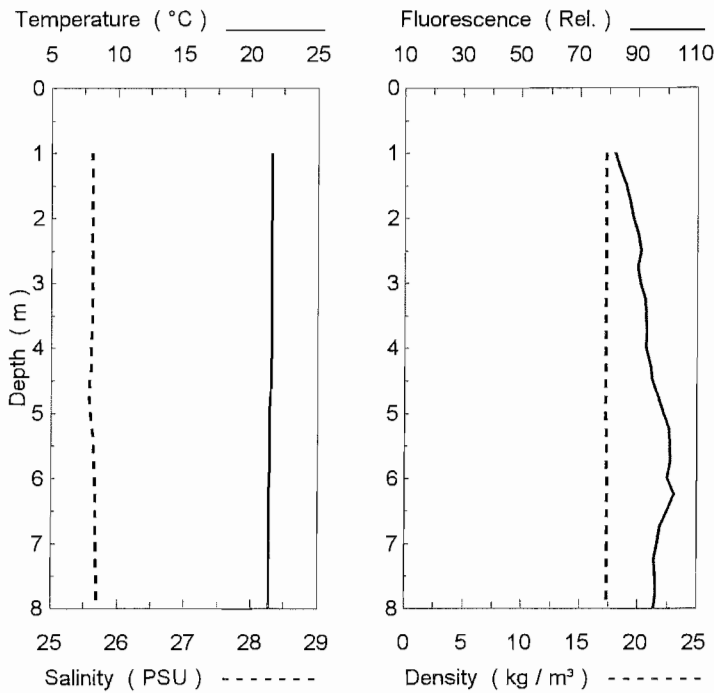
STATION 32



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	21.33	25.92	85	17.42
2	21.29	25.93	109	17.53
3	21.28	25.93	119	17.54
4	21.25	25.93	119	17.54
5	21.22	25.93	120	17.55
6	21.18	25.94	118	17.57
7	21.16	25.95	115	17.57
8	21.07	25.95	109	17.58
9	20.92	26.01	101	17.68

Survey 95-04

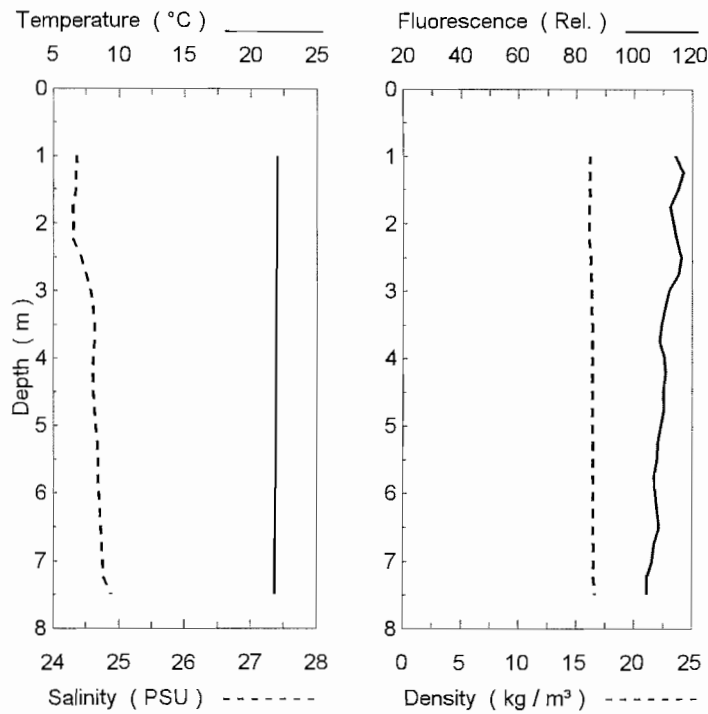
STATION 33



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	21.56	25.62	82	17.22
2	21.55	25.62	88	17.23
3	21.55	25.62	91	17.23
4	21.53	25.61	93	17.22
5	21.43	25.61	98	17.24
6	21.38	25.66	101	17.31
7	21.37	25.68	96	17.32
8	21.38	25.69	96	17.33

Survey 95-04

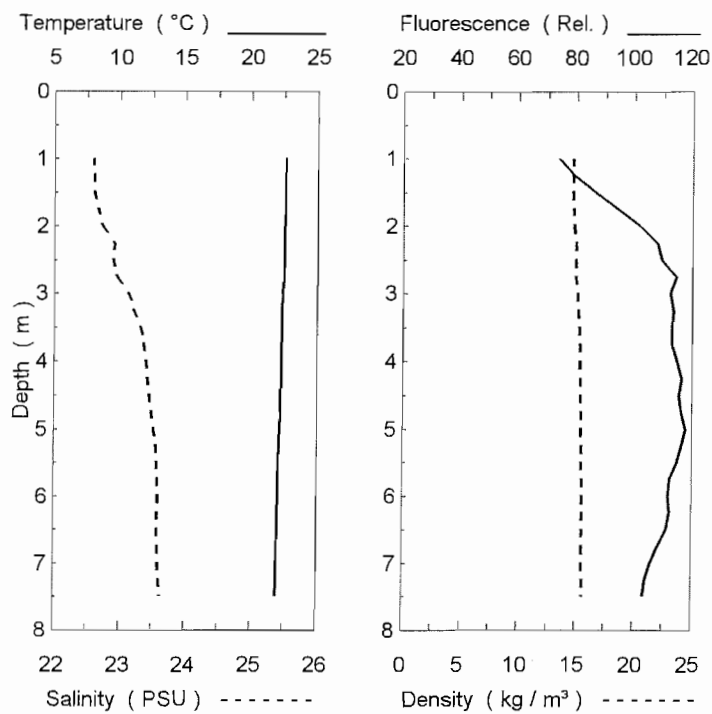
STATION 34



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	21.97	23.89	111	16.06
2	22.00	24.28	112	16.12
3	21.93	24.55	113	16.31
4	21.90	24.61	110	16.37
5	21.89	24.65	109	16.40
6	21.86	24.70	108	16.45
7	21.85	24.75	106	16.49
8	21.88	24.97	103	16.68

Survey 95-04

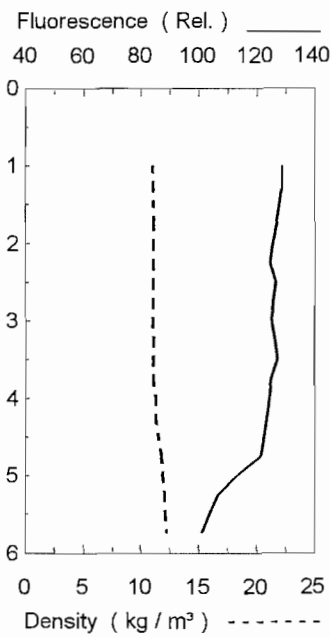
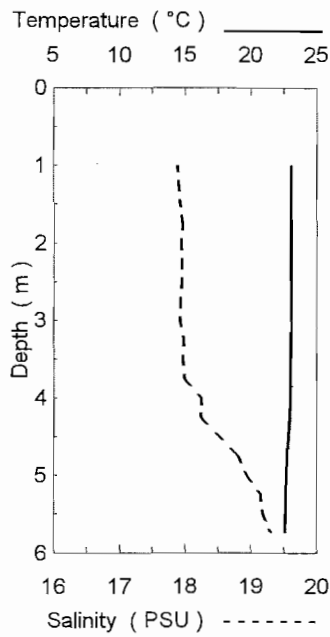
STATION 35



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	22.57	22.59	75	14.67
2	22.50	22.78	100	14.83
3	22.39	23.12	112	15.10
4	22.28	23.40	115	15.35
5	22.19	23.52	116	15.47
6	22.08	23.58	113	15.54
7	21.98	23.61	106	15.58
8	21.90	23.66	101	15.64

Survey 95-04

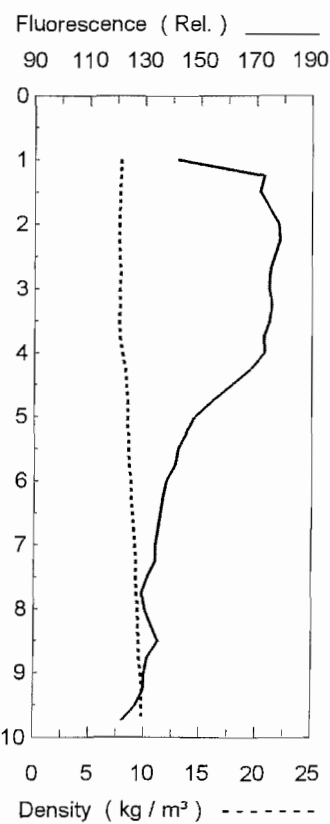
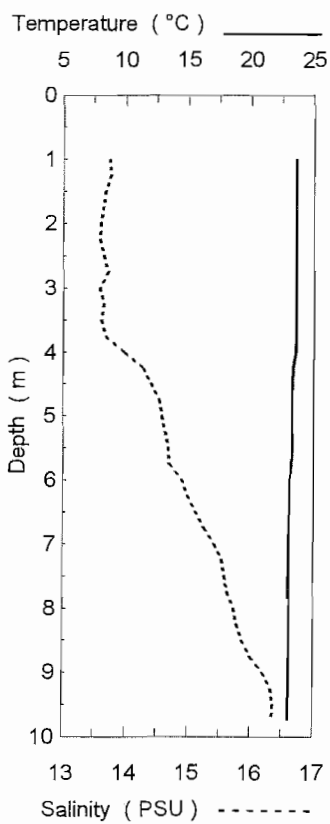
STATION 36



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	23.08	17.90	129	11.00
2	23.07	17.94	125	11.03
3	23.07	17.94	125	11.04
4	23.01	18.15	125	11.19
5	22.71	18.93	113	11.87
6	22.59	19.42	97	12.27

Survey 95-04

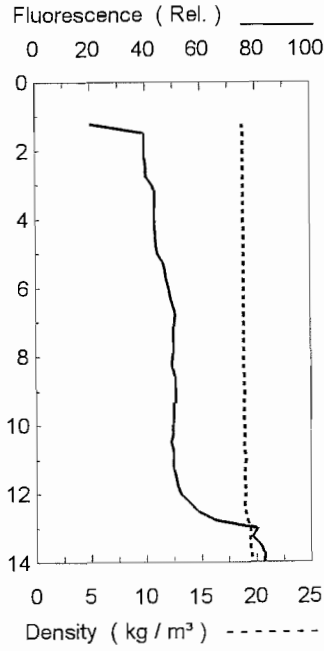
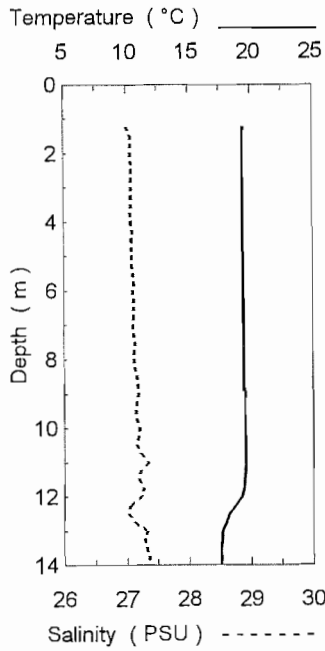
STATION 37



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	23.62	13.56	141	7.60
2	23.63	13.59	178	7.62
3	23.61	13.66	175	7.69
4	23.52	13.96	172	7.89
5	23.30	14.55	149	8.44
6	23.15	14.88	138	8.69
7	23.06	15.40	134	9.12
8	23.08	15.71	131	9.35
9	23.09	16.16	131	9.69
10	23.01	16.46	120	9.93

Survey 95-04

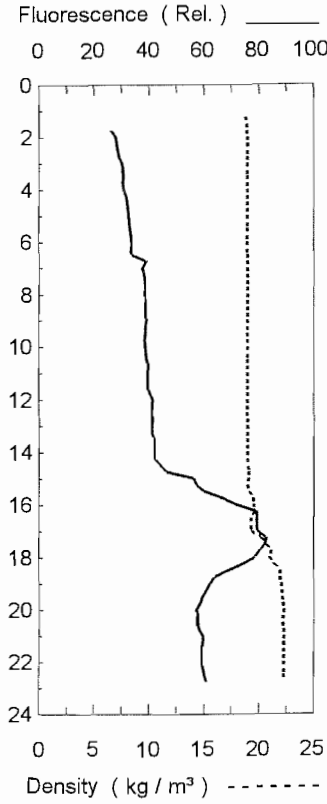
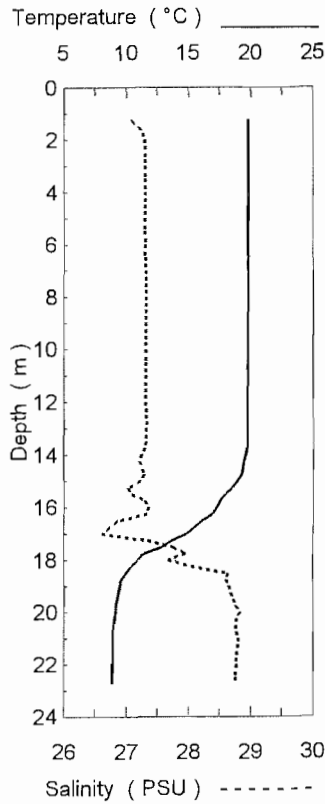
STATION 38



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.42	27.02	20	18.83
2	19.42	27.08	36	18.88
3	19.41	27.08	42	18.88
4	19.41	27.09	43	18.89
5	19.41	27.09	45	18.89
6	19.43	27.11	48	18.90
7	19.44	27.11	50	18.90
8	19.46	27.14	50	18.91
9	19.52	27.17	51	18.94
10	19.52	27.18	50	18.93
11	19.54	27.23	50	18.96
12	19.15	27.27	53	18.98
13	17.80	27.36	72	19.33
14	17.52	27.37	85	19.55

Survey 95-04

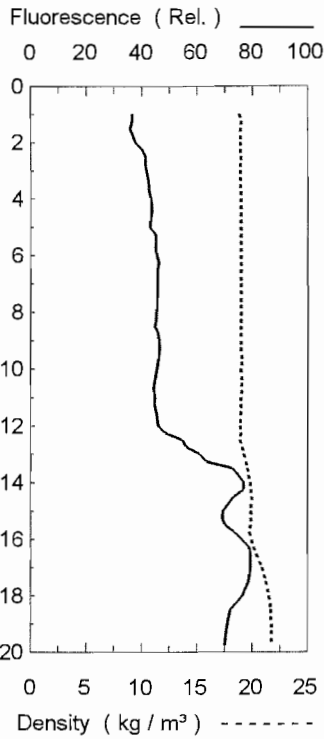
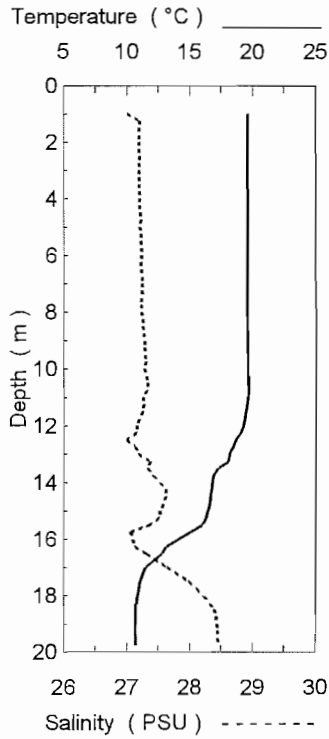
STATION 39



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.79	27.08		18.72
2	19.79	27.25	26	18.94
3	19.79	27.30	30	18.95
4	19.79	27.30	31	18.96
5	19.79	27.31	33	18.96
6	19.79	27.31	34	18.96
7	19.78	27.31	38	18.96
8	19.78	27.31	39	18.96
9	19.78	27.31	39	18.97
10	19.78	27.31	39	18.97
11	19.78	27.31	40	18.97
12	19.77	27.32	41	18.97
13	19.77	27.32	41	18.97
14	19.56	27.31	42	18.94
15	18.84	27.32	53	19.05
16	17.24	27.39	73	19.52
17	14.52	27.74	81	19.74
18	11.03	28.49	77	21.27
19	9.49	28.76	62	22.04
20	9.09	28.80	58	22.22
21	8.95	28.79	59	22.26
22	8.91	28.77	59	22.25
23	8.88	28.76	61	22.25

Survey 95-04

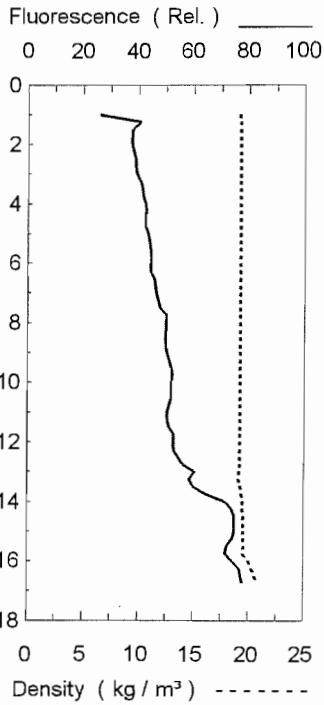
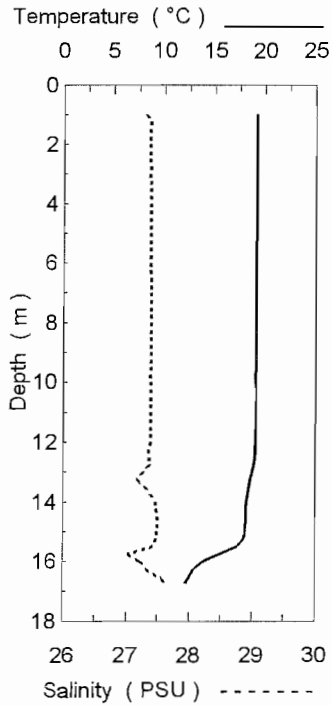
STATION 40



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	19.58	27.00	37	18.71
2	19.58	27.13	37	18.91
3	19.58	27.19	42	18.92
4	19.58	27.20	43	18.93
5	19.59	27.21	44	18.94
6	19.60	27.23	46	18.95
7	19.61	27.24	46	18.95
8	19.61	27.24	46	18.95
9	19.64	27.27	46	18.97
10	19.67	27.29	46	18.98
11	19.62	27.29	45	18.98
12	19.14	27.35	49	18.93
13	18.16	27.41	62	19.26
14	16.85	27.62	76	19.79
15	16.42	27.55	70	19.89
16	14.24	27.90	76	19.83
17	11.77	28.27	79	20.84
18	10.94	28.43	75	21.46
19	10.69	28.46	71	21.70
20	10.72	28.43	70	21.74

Survey 95-04

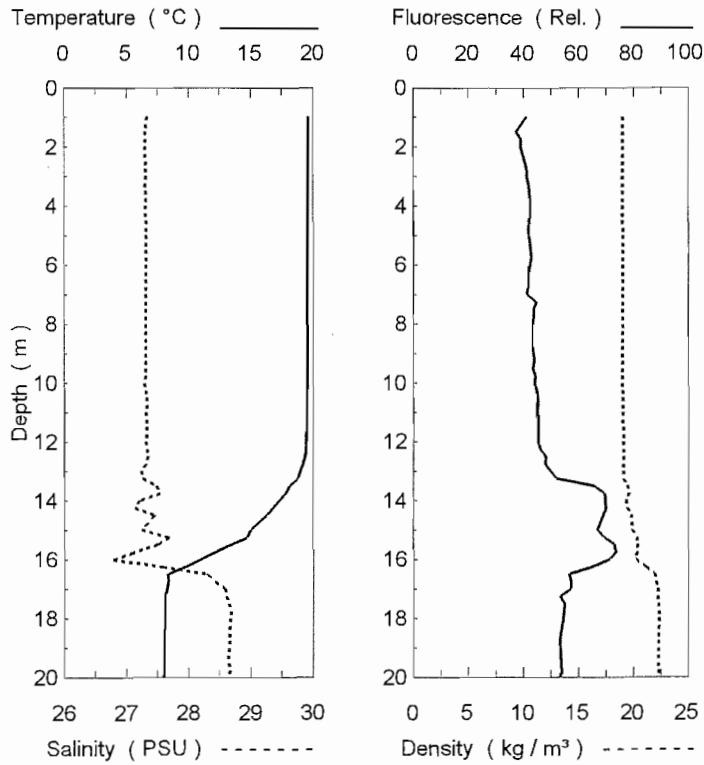
STATION 41



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	19.14	27.29	27	19.12
2	19.13	27.37	38	19.17
3	19.13	27.37	40	19.17
4	19.13	27.37	42	19.17
5	19.13	27.38	43	19.17
6	19.13	27.38	44	19.18
7	19.13	27.38	47	19.18
8	19.13	27.38	50	19.18
9	19.12	27.38	51	19.18
10	19.12	27.39	52	19.18
11	19.13	27.39	51	19.18
12	19.09	27.38	53	19.17
13	18.81	27.38	58	19.17
14	18.22	27.48	69	19.42
15	18.02	27.49	75	19.52
16	14.53	27.87	73	19.90
17	11.12	28.34	79	21.15

Survey 95-04

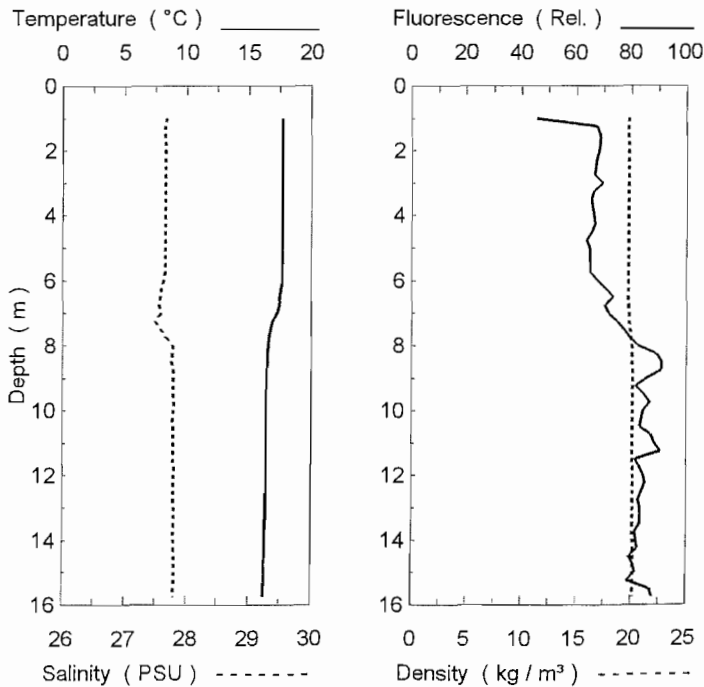
STATION 42



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.59	27.01	41	18.90
2	19.58	27.34	41	19.02
3	19.58	27.31	42	19.01
4	19.58	27.31	42	19.01
5	19.58	27.31	42	19.01
6	19.58	27.31	42	19.01
7	19.57	27.31	42	19.02
8	19.56	27.31	43	19.02
9	19.56	27.31	44	19.02
10	19.53	27.32	44	19.03
11	19.51	27.32	45	19.04
12	19.45	27.33	46	19.05
13	19.04	27.37	50	19.10
14	17.28	27.62	72	19.60
15	15.12	27.78	68	20.06
16	10.84	28.19	68	20.79
17	8.38	28.66	57	22.10
18	8.10	28.69	54	22.29
19	8.05	28.67	53	22.28
20	8.02	28.66	54	22.29

Survey 95-04

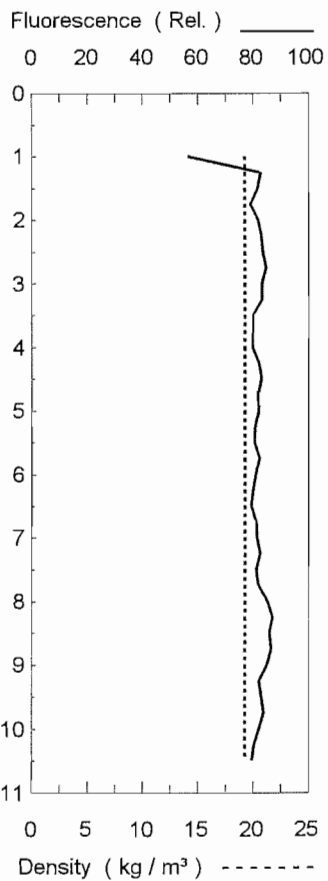
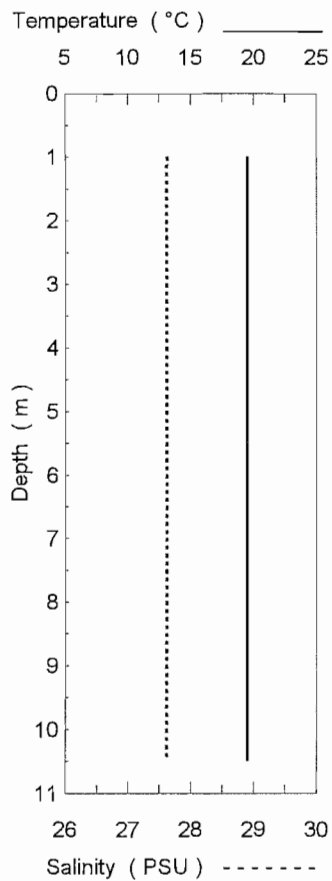
STATION 43



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.71	27.04	46	19.64
2	17.70	27.67	69	19.73
3	17.70	27.66	67	19.73
4	17.70	27.66	66	19.73
5	17.70	27.66	65	19.73
6	17.65	27.63	68	19.71
7	17.15	27.69	72	19.73
8	16.57	27.78	83	20.04
9	16.45	27.79	86	20.10
10	16.43	27.79	84	20.11
11	16.40	27.79	88	20.12
12	16.38	27.79	84	20.13
13	16.35	27.79	83	20.13
14	16.30	27.80	81	20.15
15	16.27	27.81	82	20.16
16	16.25	27.81	90	20.16

Survey 95-04

STATION 44

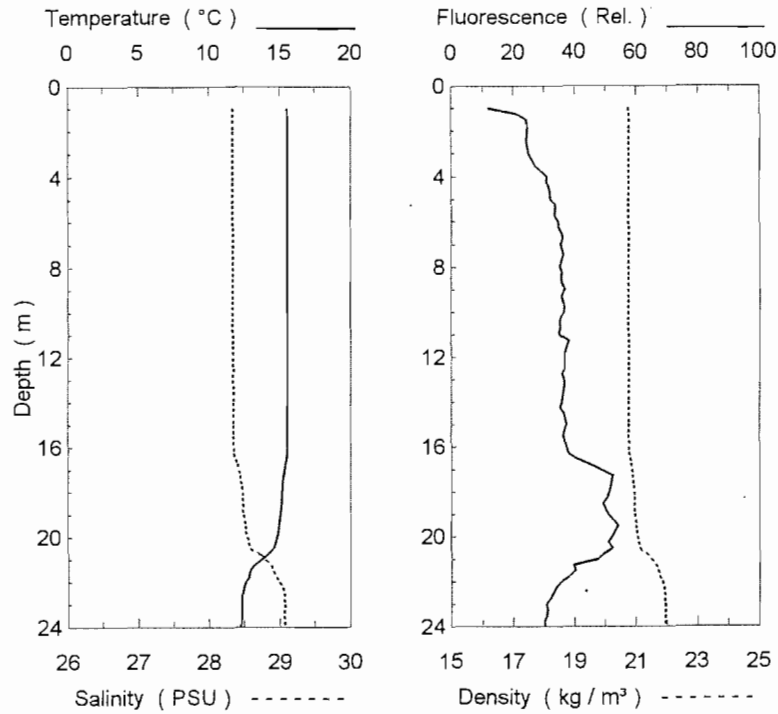


Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	19.52	27.62	57	19.26
2	19.52	27.62	81	19.27
3	19.52	27.62	83	19.27
4	19.52	27.62	81	19.27
5	19.52	27.62	82	19.27
6	19.52	27.62	81	19.27
7	19.52	27.63	82	19.27
8	19.52	27.63	83	19.27
9	19.52	27.63	85	19.27
10	19.52	27.63	82	19.27
11	19.52	27.63	76	19.27

Appendix 5.5 Survey 95-05 CTD profiles of temperature ($^{\circ}\text{C}$), salinity (PSU), density (kg/m^3) and fluorescence (relative).

Survey 95-05

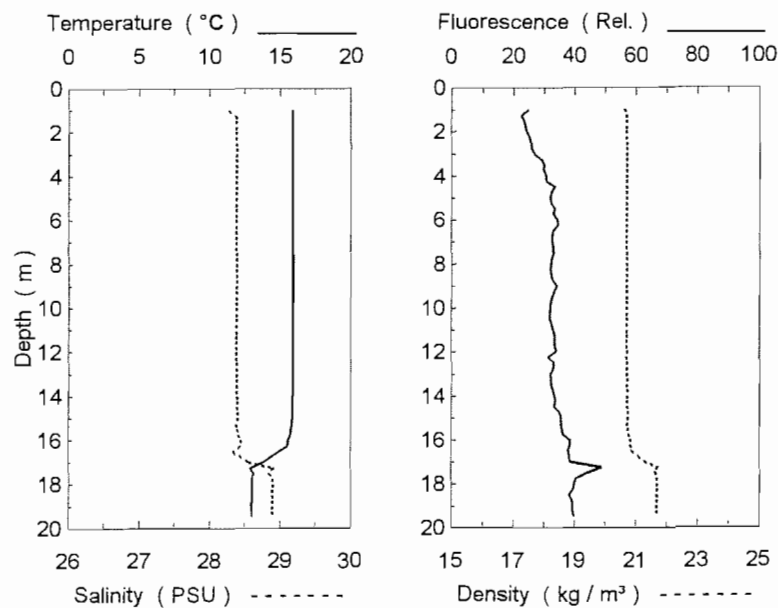
STATION 1



Depth (m)	Temp. ($^{\circ}\text{C}$)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m^3)
1	15.50	28.26	12	20.74
2	15.49	28.34	26	20.74
3	15.50	28.33	25	20.74
4	15.50	28.33	30	20.74
5	15.50	28.33	32	20.74
6	15.49	28.33	34	20.74
7	15.50	28.33	36	20.73
8	15.49	28.33	36	20.74
9	15.49	28.33	36	20.74
10	15.49	28.33	36	20.74
11	15.49	28.33	36	20.74
12	15.49	28.34	36	20.74
13	15.49	28.34	36	20.74
14	15.49	28.34	35	20.74
15	15.48	28.34	37	20.75
16	15.47	28.35	37	20.75
17	15.27	28.41	49	20.85
18	15.13	28.46	50	20.91
19	15.04	28.48	51	20.95
20	14.76	28.54	52	21.05
21	13.65	28.79	46	21.46
22	12.57	28.99	36	21.82
23	12.29	29.07	31	21.93
24	12.23	29.07	30	21.94

Survey 95-05

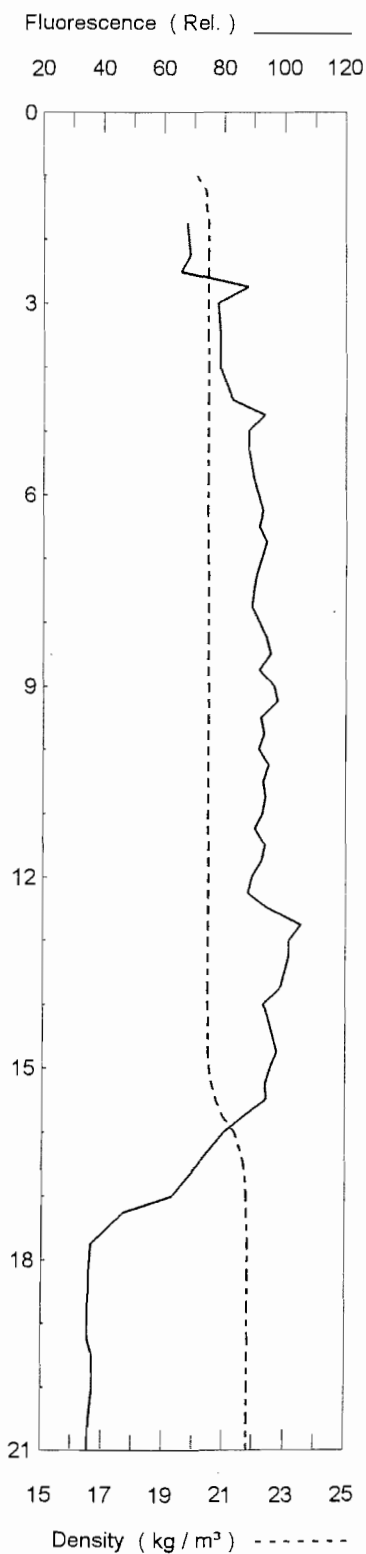
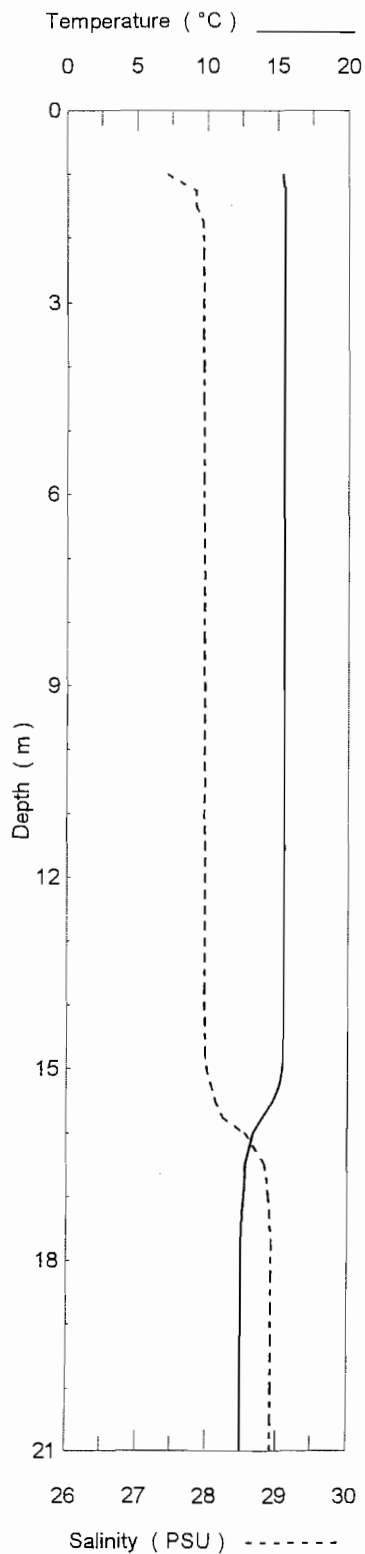
STATION 2



Depth (m)	Temp. ($^{\circ}\text{C}$)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m^3)
1	15.87	28.27	25	20.61
2	15.87	28.37	24	20.68
3	15.87	28.38	27	20.69
4	15.87	28.38	30	20.69
5	15.87	28.38	33	20.69
6	15.87	28.38	34	20.69
7	15.87	28.38	33	20.69
8	15.87	28.38	32	20.69
9	15.87	28.38	33	20.69
10	15.87	28.38	32	20.69
11	15.87	28.38	33	20.69
12	15.87	28.38	33	20.69
13	15.87	28.38	32	20.69
14	15.86	28.38	33	20.70
15	15.80	28.39	35	20.72
16	15.58	28.43	38	20.79
17	13.70	28.57	40	21.29
18	13.02	28.87	40	21.64
19	12.97	28.88	39	21.66
20	12.97	28.87	40	21.65

Survey 95-05

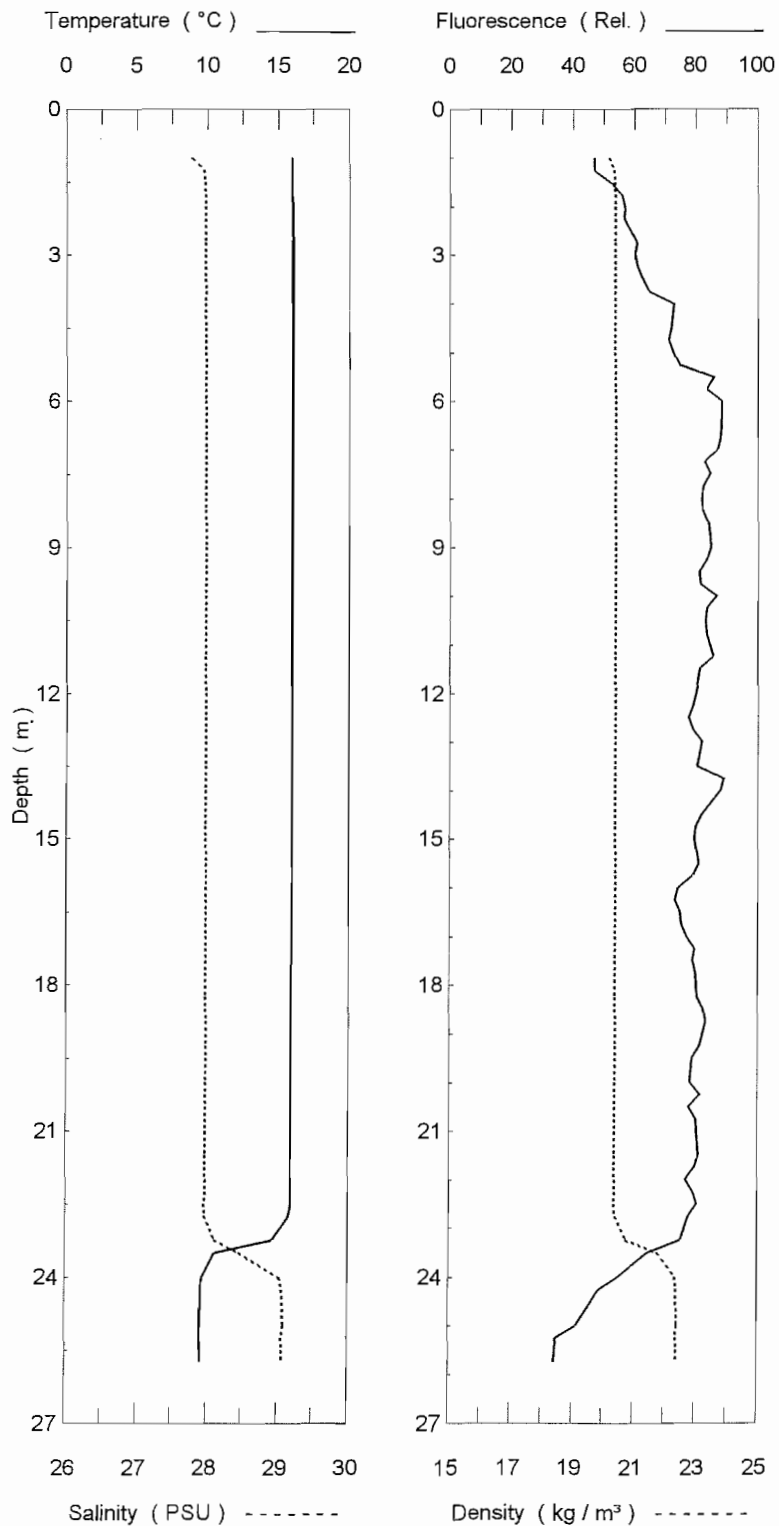
STATION 3



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.43	27.42		20.05
2	15.48	28.00	68	20.48
3	15.47	27.94	76	20.44
4	15.47	27.94	79	20.44
5	15.47	27.95	89	20.44
6	15.46	27.95	91	20.45
7	15.46	27.95	92	20.45
8	15.46	27.95	92	20.45
9	15.46	27.96	94	20.45
10	15.46	27.96	92	20.46
11	15.46	27.96	92	20.46
12	15.46	27.96	90	20.46
13	15.45	27.97	104	20.46
14	15.45	27.97	95	20.47
15	15.21	28.03	95	20.56
16	13.47	28.48	81	21.25
17	12.66	28.84	55	21.69
18	12.44	28.92	36	21.79
19	12.44	28.92	35	21.79
20	12.43	28.92	37	21.79
21	12.43	28.92	35	21.79

Survey 95-05

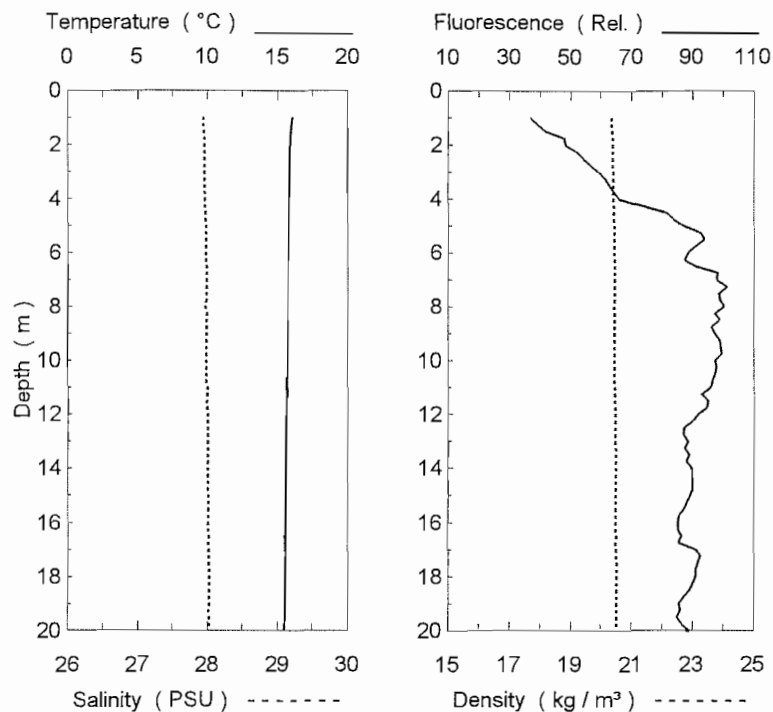
STATION 4



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	15.97	27.77	47	20.20
2	15.98	27.97	57	20.35
3	15.98	27.97	60	20.35
4	15.98	27.97	68	20.35
5	15.97	27.97	75	20.36
6	15.96	27.97	87	20.36
7	15.96	27.97	86	20.36
8	15.96	27.97	83	20.36
9	15.97	27.97	84	20.36
10	15.96	27.97	83	20.36
11	15.95	27.97	84	20.36
12	15.95	27.97	80	20.36
13	15.95	27.98	80	20.36
14	15.95	27.98	85	20.36
15	15.95	27.98	81	20.36
16	15.95	27.98	75	20.36
17	15.94	27.98	77	20.37
18	15.95	27.97	80	20.36
19	15.94	27.98	83	20.37
20	15.94	27.98	79	20.37
21	15.94	27.98	80	20.37
22	15.94	27.98	79	20.37
23	14.53	27.99	77	20.66
24	9.35	29.09	50	22.45
25	9.59	29.07	39	22.39
26	9.52	29.06	32	22.40

Survey 95-05

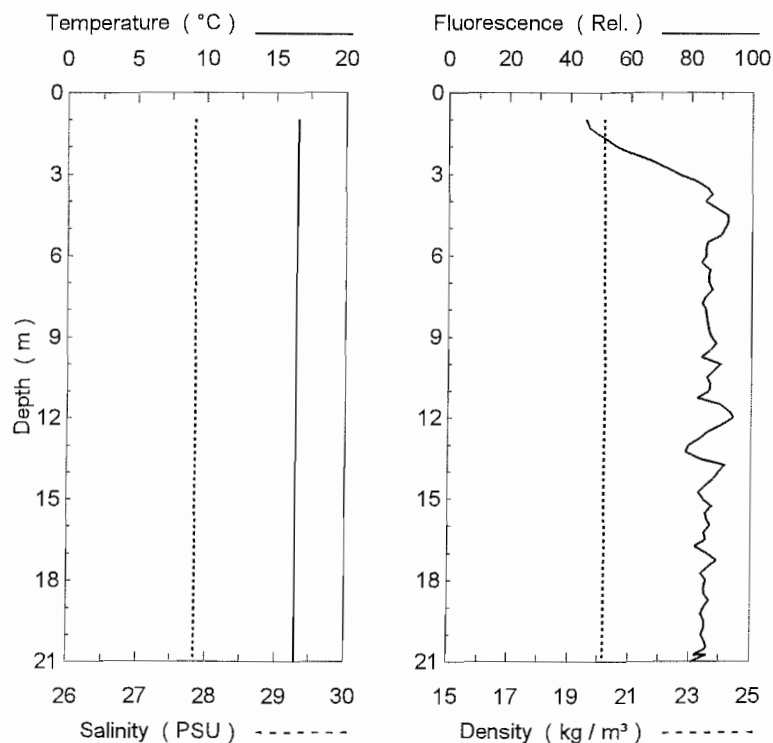
STATION 5



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.08	27.86	37	20.32
2	15.88	27.95	48	20.36
3	15.83	27.96	59	20.38
4	15.77	27.97	69	20.39
5	15.73	27.98	88	20.41
6	15.71	27.98	89	20.42
7	15.69	27.98	98	20.42
8	15.69	27.98	99	20.42
9	15.68	27.98	98	20.43
10	15.67	27.99	98	20.43
11	15.65	27.99	95	20.44
12	15.61	28.00	92	20.46
13	15.59	28.00	87	20.46
14	15.58	28.01	89	20.47
15	15.56	28.01	89	20.47
16	15.54	28.01	86	20.48
17	15.53	28.01	90	20.48
18	15.52	28.02	91	20.49
19	15.51	28.02	86	20.49
20	15.48	28.02	89	20.50

Survey 95-05

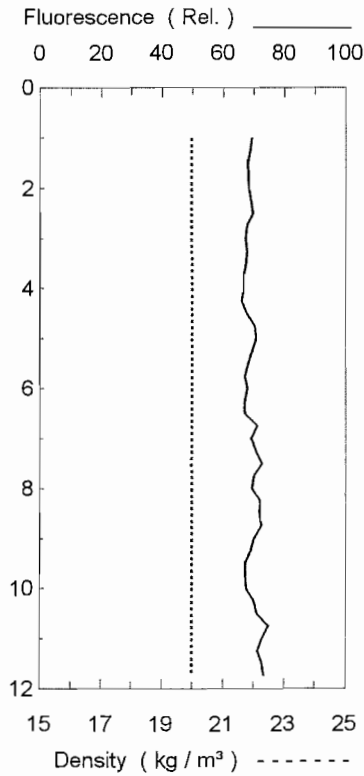
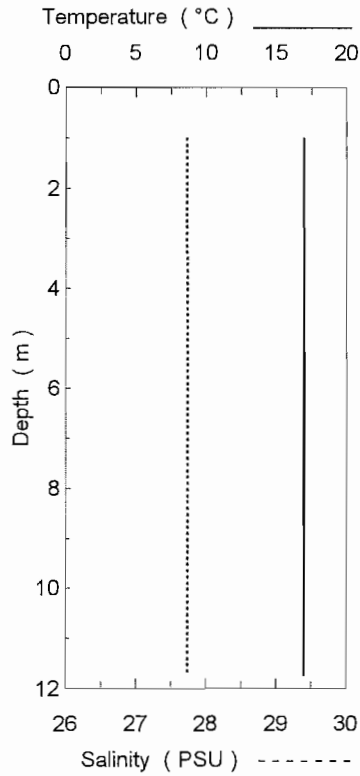
STATION 6



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.57	27.72	45	20.11
2	16.54	27.82	57	20.12
3	16.50	27.82	76	20.13
4	16.48	27.83	87	20.13
5	16.47	27.83	91	20.14
6	16.46	27.83	85	20.14
7	16.45	27.83	86	20.14
8	16.43	27.83	84	20.15
9	16.43	27.83	87	20.15
10	16.43	27.83	87	20.15
11	16.43	27.84	85	20.15
12	16.43	27.84	92	20.15
13	16.42	27.84	80	20.15
14	16.42	27.84	88	20.15
15	16.42	27.84	85	20.15
16	16.42	27.84	85	20.16
17	16.41	27.84	85	20.16
18	16.41	27.84	85	20.16
19	16.41	27.84	85	20.16
20	16.42	27.84	85	20.16
21	16.41	27.84	82	20.16

Survey 95-05

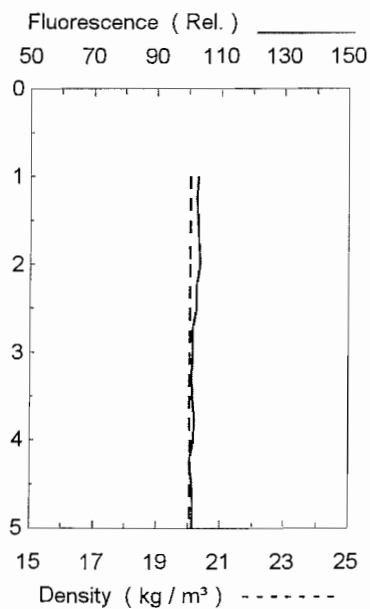
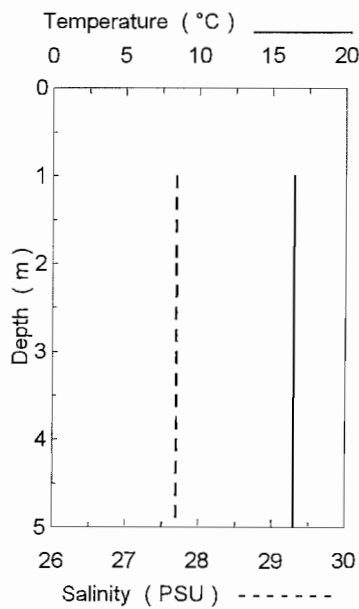
STATION 7



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.94	27.71	69	19.94
2	16.94	27.72	68	19.95
3	16.94	27.73	67	19.96
4	16.93	27.73	67	19.96
5	16.94	27.73	70	19.96
6	16.94	27.73	67	19.96
7	16.94	27.73	69	19.96
8	16.94	27.73	71	19.96
9	16.94	27.73	70	19.96
10	16.94	27.73	68	19.96
11	16.94	27.73	73	19.96
12	16.94	27.73	74	19.96

Survey 95-05

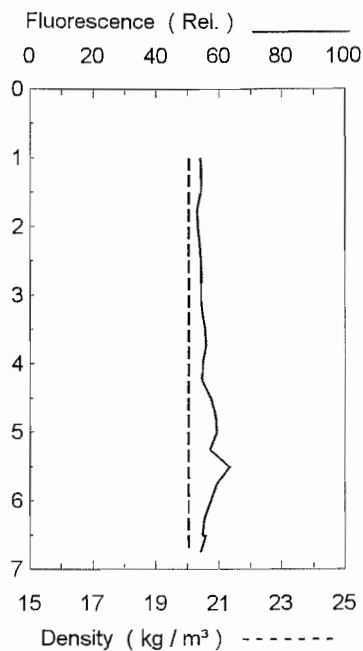
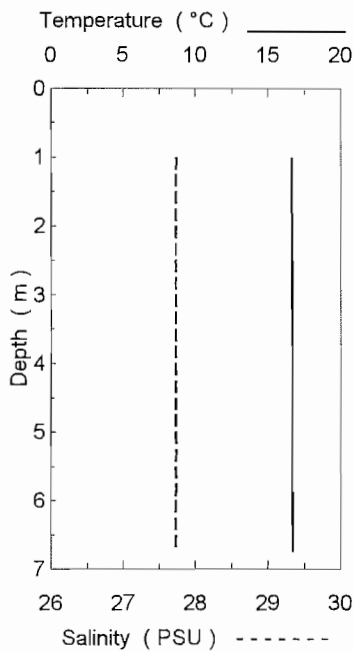
STATION 8



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.45	27.68	103	20.03
2	16.46	27.68	103	20.03
3	16.46	27.68	101	20.03
4	16.45	27.69	101	20.03
5	16.44	27.69	101	20.04

Survey 95-05

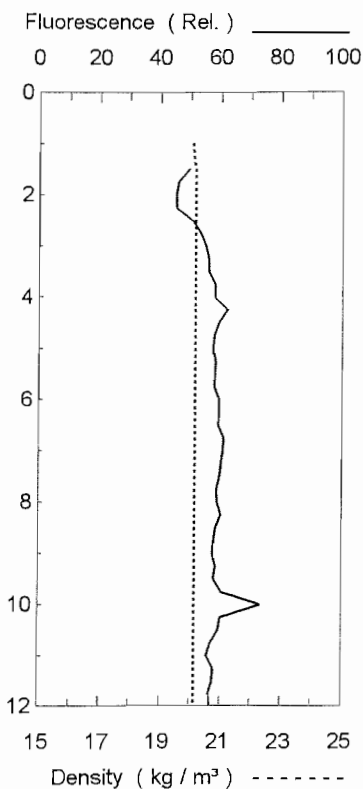
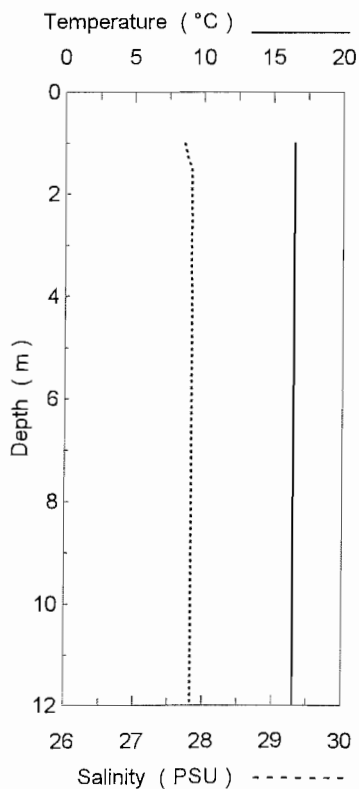
STATION 9



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.64	27.67	54	20.02
2	16.64	27.72	53	20.02
3	16.64	27.73	54	20.02
4	16.65	27.73	55	20.02
5	16.65	27.73	59	20.02
6	16.65	27.73	58	20.02
7	16.66	27.72	53	20.02

Survey 95-05

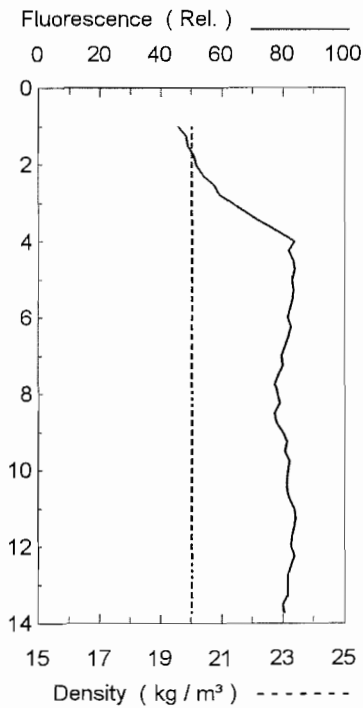
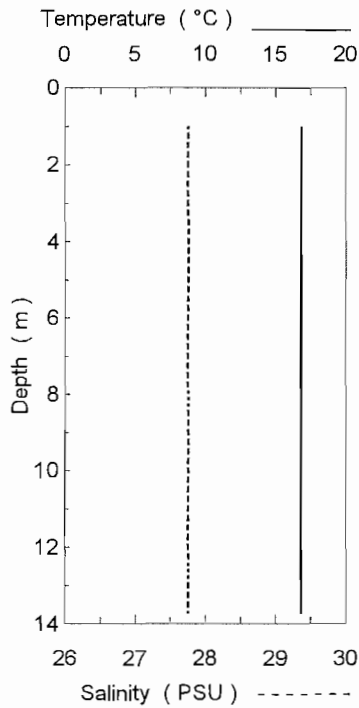
STATION 10



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.48	27.60	49	19.96
2	16.48	27.80	44	20.12
3	16.47	27.82	54	20.13
4	16.47	27.82	59	20.13
5	16.47	27.82	58	20.13
6	16.47	27.82	59	20.14
7	16.47	27.82	60	20.13
8	16.47	27.83	59	20.14
9	16.47	27.83	58	20.14
10	16.47	27.83	63	20.14
11	16.47	27.83	57	20.14
12	16.47	27.82	57	20.14

Survey 95-05

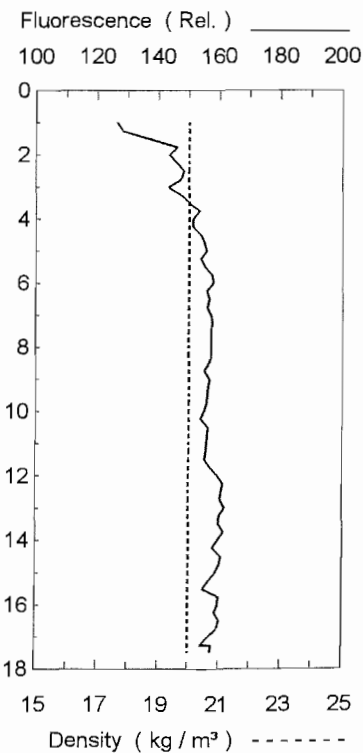
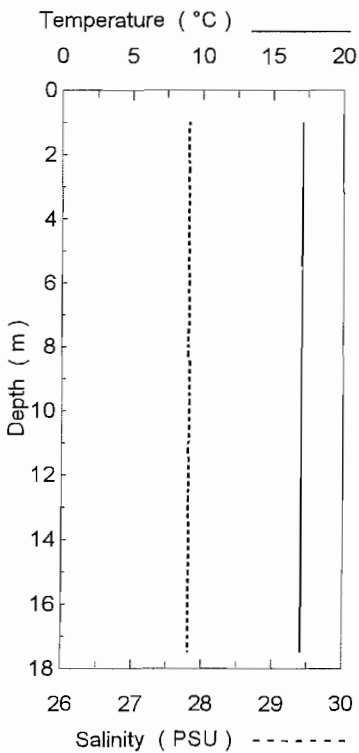
STATION 11



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.80	27.75	46	20.00
2	16.80	27.75	52	20.01
3	16.80	27.75	63	20.01
4	16.79	27.75	80	20.01
5	16.79	27.75	83	20.01
6	16.79	27.75	82	20.01
7	16.80	27.75	80	20.01
8	16.79	27.75	78	20.01
9	16.79	27.75	79	20.01
10	16.79	27.75	81	20.01
11	16.79	27.75	83	20.01
12	16.79	27.75	83	20.01
13	16.79	27.75	81	20.01
14	16.79	27.75	80	20.01

Survey 95-05

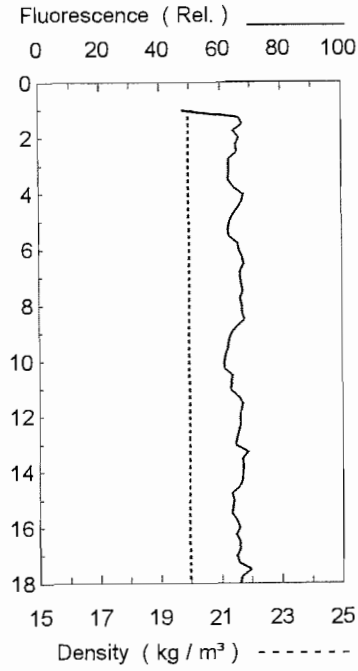
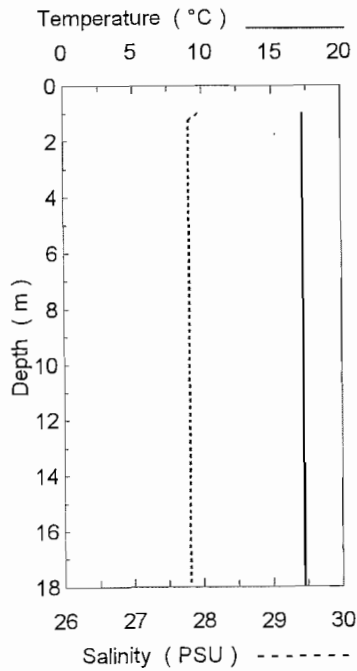
STATION 12



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.08	27.81	126	19.86
2	17.08	27.80	143	19.98
3	17.07	27.80	145	19.98
4	17.07	27.80	152	19.98
5	17.06	27.80	155	19.99
6	17.06	27.80	157	19.99
7	17.06	27.80	157	19.99
8	17.05	27.80	157	19.99
9	17.05	27.81	156	19.99
10	17.05	27.80	155	19.99
11	17.05	27.80	156	19.99
12	17.04	27.81	159	19.99
13	17.04	27.81	160	19.99
14	17.03	27.81	159	19.99
15	17.03	27.81	158	20.00
16	17.04	27.81	159	19.99
17	17.04	27.81	158	20.00

Survey 95-05

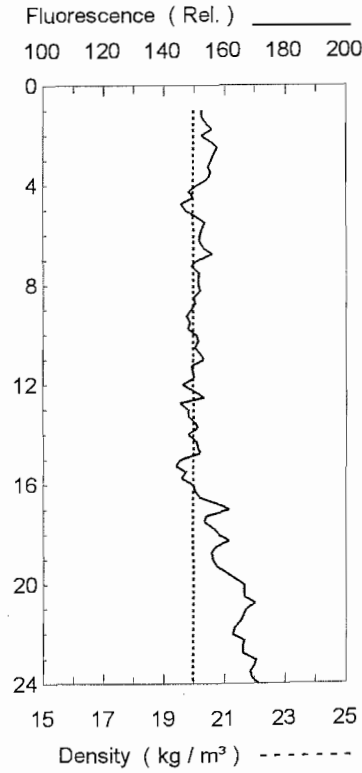
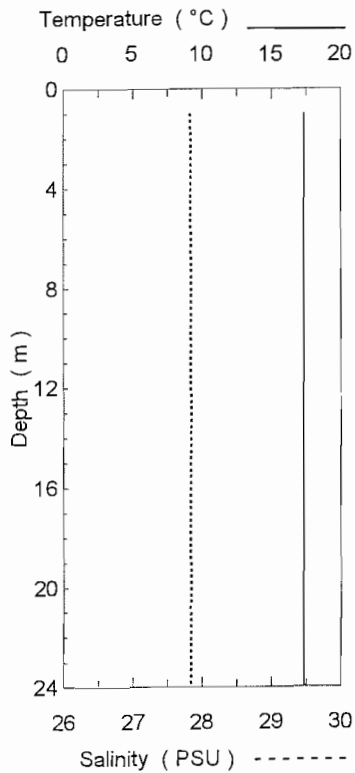
STATION 13



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.23	27.95	48	19.83
2	17.23	27.80	64	19.94
3	17.23	27.81	63	19.95
4	17.23	27.81	66	19.95
5	17.23	27.81	63	19.95
6	17.23	27.81	66	19.95
7	17.23	27.81	67	19.95
8	17.23	27.81	67	19.95
9	17.23	27.81	64	19.95
10	17.23	27.81	62	19.95
11	17.23	27.81	65	19.95
12	17.22	27.81	67	19.95
13	17.22	27.81	67	19.95
14	17.22	27.81	67	19.95
15	17.22	27.81	64	19.96
16	17.22	27.81	65	19.95
17	17.22	27.81	66	19.95
18	17.22	27.81	66	19.96

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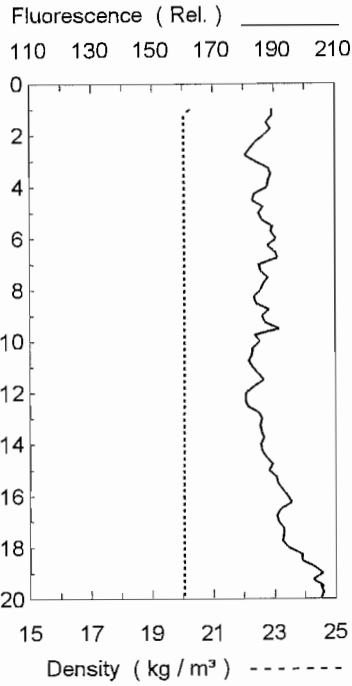
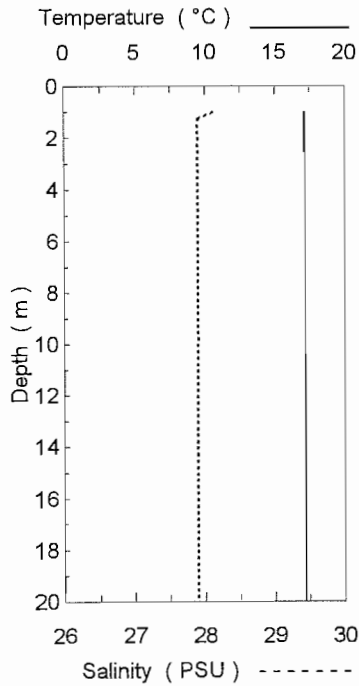
STATION 14



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.32	27.83	152	19.95
2	17.32	27.83	154	19.95
3	17.32	27.83	156	19.95
4	17.32	27.83	152	19.95
5	17.32	27.83	148	19.95
6	17.32	27.83	152	19.95
7	17.32	27.83	152	19.95
8	17.32	27.83	151	19.95
9	17.32	27.83	149	19.95
10	17.32	27.83	150	19.95
11	17.32	27.83	151	19.95
12	17.32	27.83	149	19.95
13	17.32	27.83	149	19.95
14	17.32	27.84	150	19.95
15	17.32	27.83	148	19.95
16	17.32	27.83	149	19.95
17	17.32	27.84	156	19.95
18	17.32	27.83	158	19.95
19	17.32	27.83	156	19.95
20	17.33	27.83	165	19.95
21	17.33	27.83	167	19.95
22	17.33	27.83	165	19.95
23	17.32	27.83	168	19.95
24	17.33	27.83	170	19.95

Survey 95-05

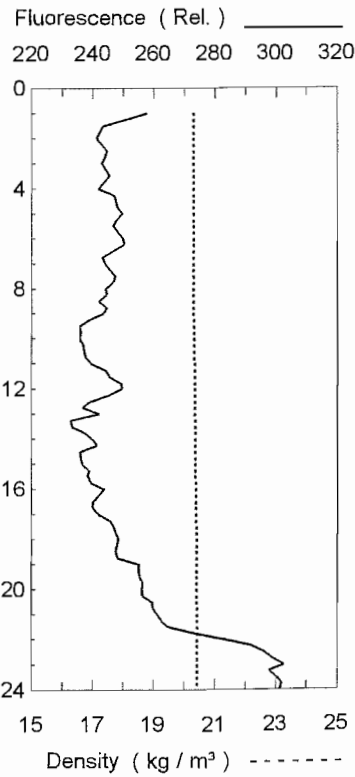
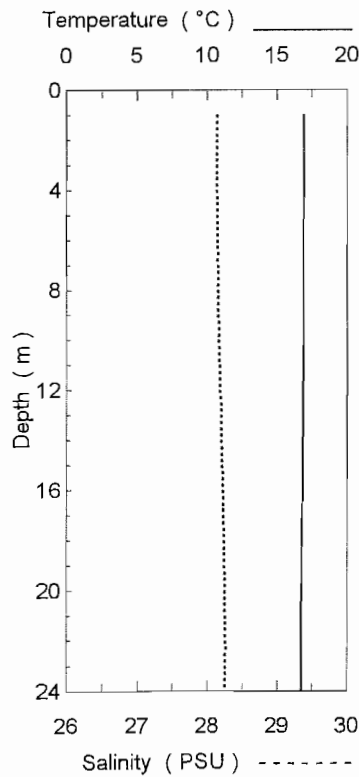
STATION 15



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	17.14	28.12	189	20.21
2	17.15	27.90	187	20.04
3	17.15	27.90	184	20.04
4	17.15	27.89	187	20.04
5	17.15	27.89	186	20.04
6	17.15	27.89	189	20.04
7	17.15	27.89	188	20.04
8	17.15	27.89	185	20.04
9	17.15	27.89	187	20.04
10	17.15	27.89	184	20.04
11	17.15	27.89	183	20.04
12	17.15	27.89	182	20.04
13	17.15	27.89	184	20.04
14	17.15	27.89	186	20.04
15	17.15	27.89	189	20.04
16	17.15	27.89	194	20.04
17	17.15	27.89	191	20.04
18	17.15	27.89	196	20.03
19	17.15	27.89	204	20.04
20	17.15	27.89	207	20.03

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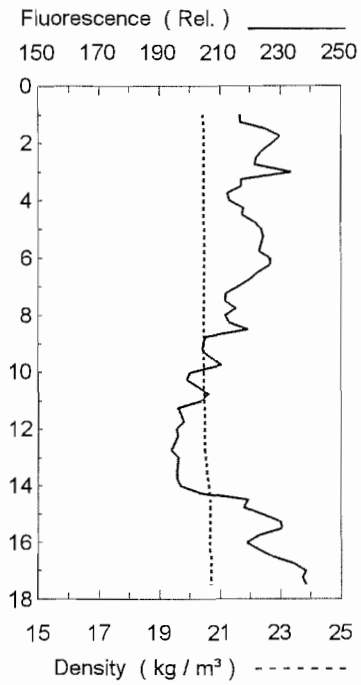
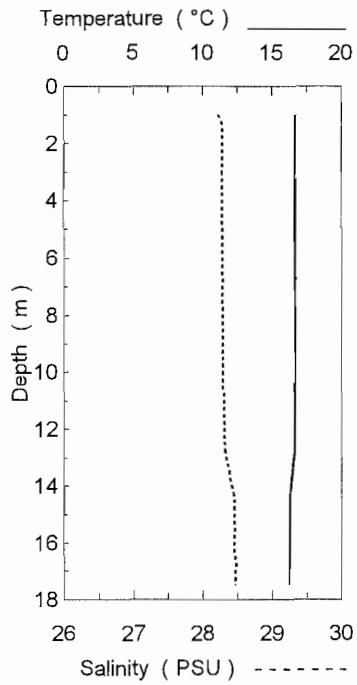
STATION 16



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.90	28.06	258	20.22
2	16.89	28.14	241	20.28
3	16.89	28.13	244	20.28
4	16.89	28.14	244	20.28
5	16.89	28.14	249	20.28
6	16.89	28.14	249	20.28
7	16.89	28.15	244	20.29
8	16.89	28.15	245	20.29
9	16.88	28.15	241	20.30
10	16.87	28.16	236	20.30
11	16.86	28.17	241	20.32
12	16.85	28.18	249	20.32
13	16.83	28.19	235	20.34
14	16.82	28.20	238	20.34
15	16.81	28.21	237	20.35
16	16.79	28.22	242	20.36
17	16.77	28.23	242	20.37
18	16.76	28.23	248	20.38
19	16.75	28.24	252	20.39
20	16.73	28.24	256	20.40
21	16.71	28.25	261	20.41
22	16.70	28.25	284	20.41
23	16.69	28.25	298	20.41
24	16.69	28.25	302	20.41

Survey 95-05

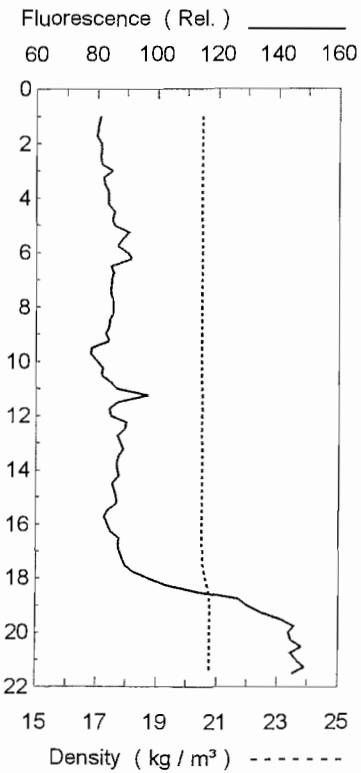
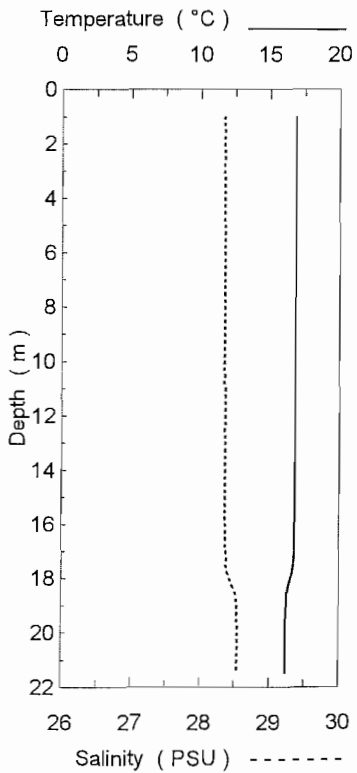
STATION 17



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.64	28.22	217	20.40
2	16.64	28.27	224	20.44
3	16.64	28.28	221	20.44
4	16.64	28.28	215	20.44
5	16.64	28.28	223	20.45
6	16.64	28.28	224	20.45
7	16.64	28.28	216	20.45
8	16.64	28.29	213	20.45
9	16.65	28.29	205	20.45
10	16.64	28.29	204	20.45
11	16.64	28.30	202	20.46
12	16.62	28.31	196	20.47
13	16.55	28.34	195	20.51
14	16.34	28.42	201	20.62
15	16.25	28.46	223	20.67
16	16.24	28.46	223	20.67
17	16.22	28.47	236	20.68

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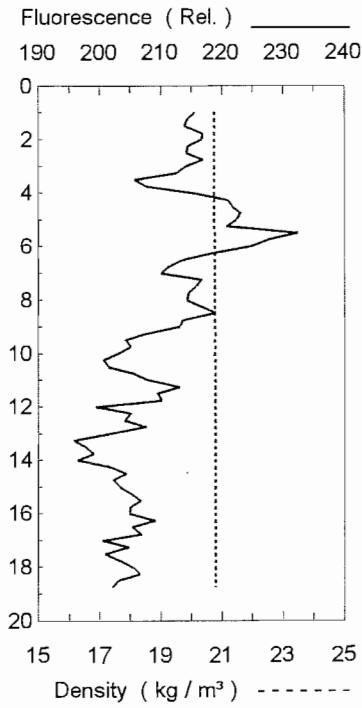
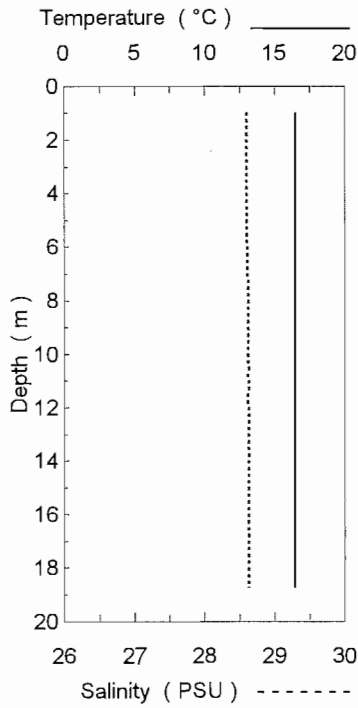
STATION 18



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.80	28.29	81	20.42
2	16.80	28.34	81	20.46
3	16.80	28.34	82	20.46
4	16.81	28.34	84	20.46
5	16.80	28.34	86	20.46
6	16.80	28.34	88	20.46
7	16.80	28.34	85	20.46
8	16.80	28.35	85	20.46
9	16.80	28.35	83	20.46
10	16.81	28.35	80	20.46
11	16.80	28.35	88	20.46
12	16.80	28.35	87	20.46
13	16.80	28.35	88	20.46
14	16.80	28.35	87	20.46
15	16.80	28.35	86	20.47
16	16.78	28.36	84	20.47
17	16.73	28.37	88	20.49
18	16.47	28.42	98	20.59
19	16.19	28.52	129	20.73
20	16.16	28.53	145	20.75
21	16.15	28.54	147	20.75
22	16.15	28.53	142	20.75

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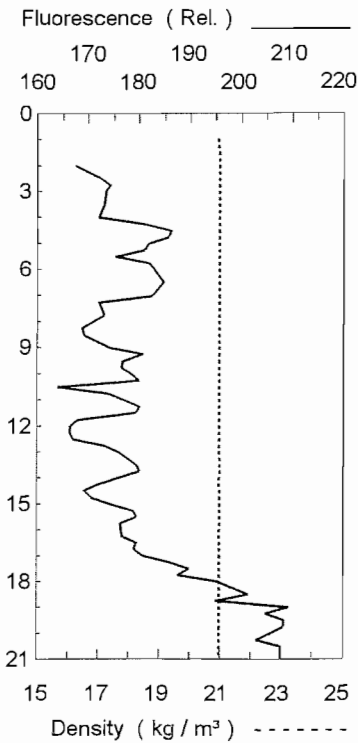
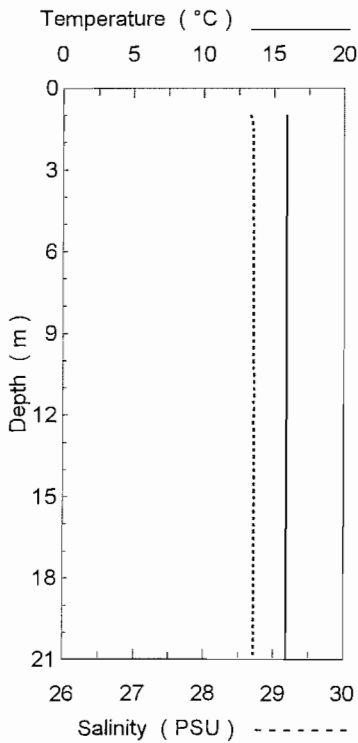
STATION 19



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.42	28.59	216	20.73
2	16.42	28.60	218	20.74
3	16.42	28.59	213	20.73
4	16.42	28.59	214	20.73
5	16.42	28.59	224	20.74
6	16.41	28.60	223	20.74
7	16.41	28.61	213	20.75
8	16.40	28.61	216	20.76
9	16.40	28.61	211	20.76
10	16.39	28.62	203	20.76
11	16.39	28.62	208	20.76
12	16.39	28.62	207	20.76
13	16.39	28.62	202	20.76
14	16.39	28.62	200	20.76
15	16.39	28.62	204	20.76
16	16.39	28.62	205	20.76
17	16.39	28.62	204	20.76
18	16.39	28.62	205	20.76
19	16.39	28.62	200	20.76

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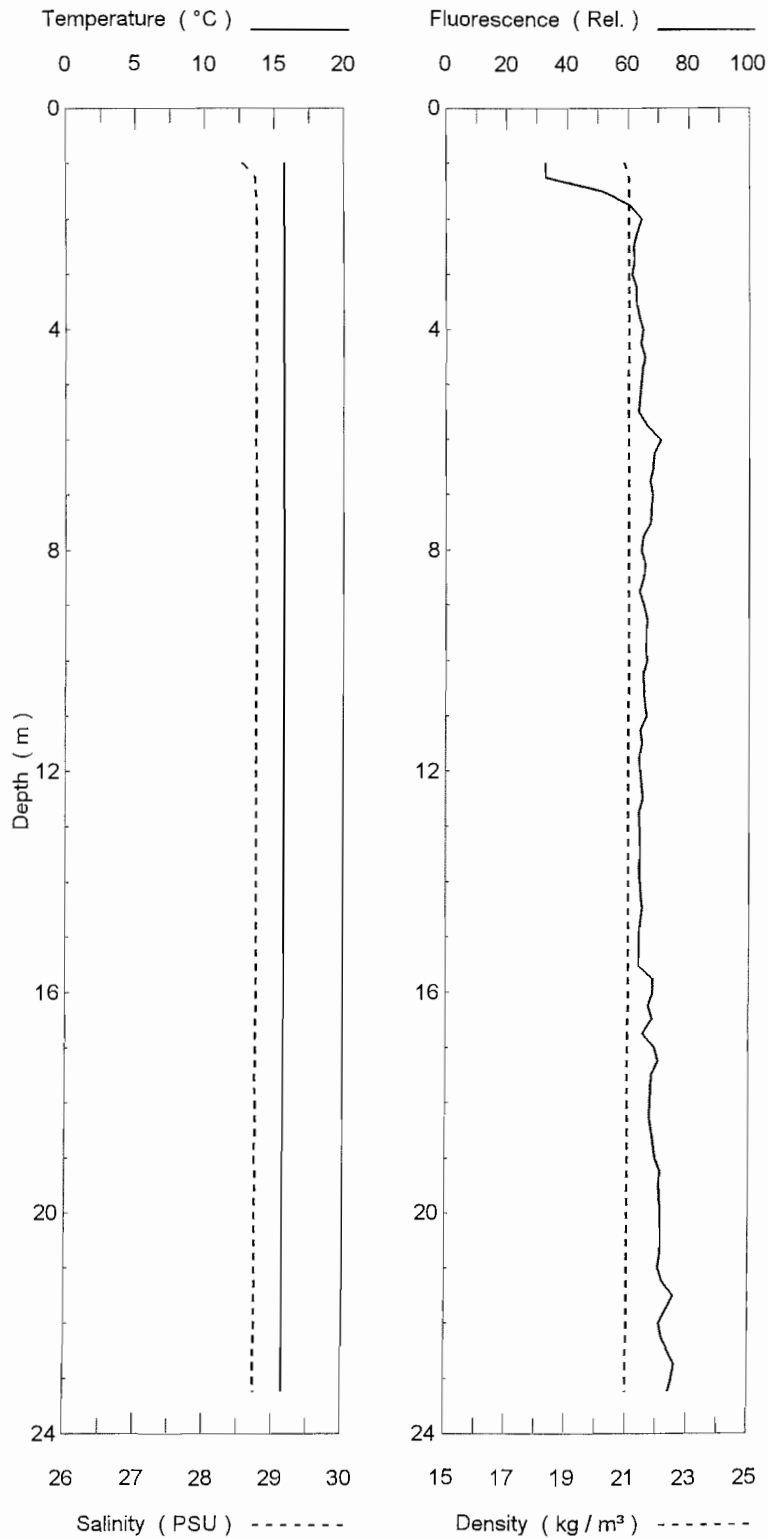
STATION 20



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.88	28.66		20.90
2	15.87	28.70	168	20.93
3	15.87	28.70	184	20.93
4	15.87	28.70	176	20.94
5	15.88	28.70	182	20.94
6	15.88	28.70	183	20.94
7	15.88	28.70	177	20.94
8	15.88	28.70	171	20.94
9	15.88	28.71	175	20.94
10	15.88	28.71	177	20.94
11	15.88	28.71	177	20.94
12	15.88	28.71	169	20.94
13	15.87	28.71	175	20.95
14	15.87	28.71	175	20.95
15	15.87	28.71	175	20.95
16	15.87	28.71	177	20.95
17	15.87	28.72	182	20.95
18	15.87	28.72	194	20.95
19	15.87	28.72	201	20.95
20	15.87	28.72	208	20.95
21	15.87	28.72	209	20.95

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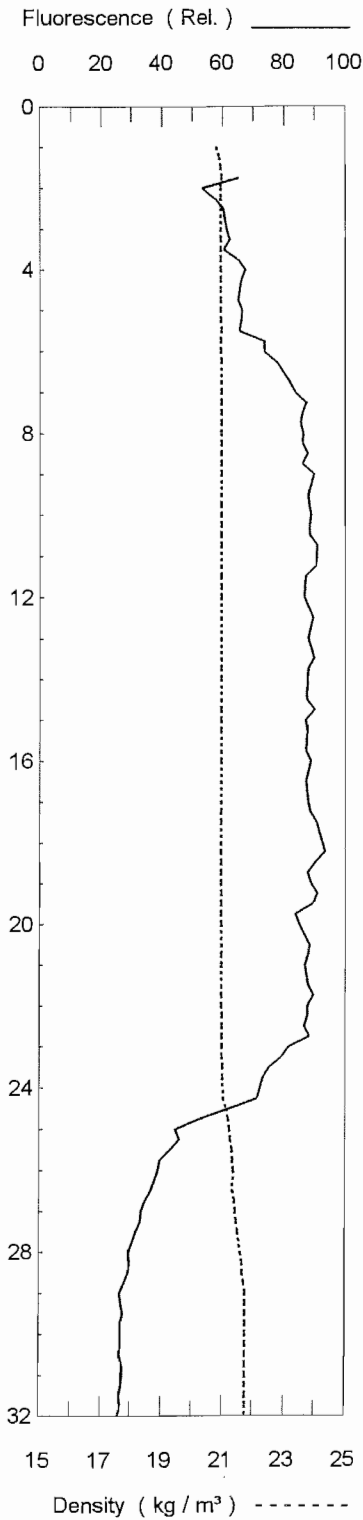
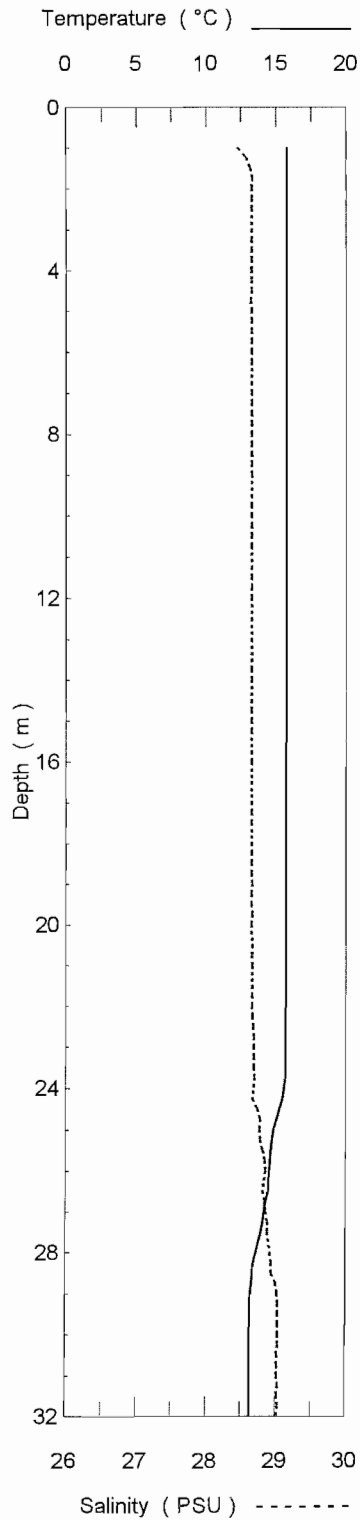
STATION 21



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	15.70	28.55	33	20.86
2	15.69	28.73	60	21.00
3	15.69	28.74	62	21.01
4	15.69	28.74	64	21.01
5	15.69	28.74	64	21.01
6	15.69	28.74	68	21.00
7	15.69	28.74	67	21.01
8	15.69	28.74	66	21.01
9	15.69	28.74	65	21.01
10	15.69	28.74	66	21.01
11	15.69	28.74	65	21.01
12	15.69	28.74	64	21.01
13	15.69	28.74	64	21.01
14	15.69	28.74	64	21.01
15	15.69	28.74	64	21.00
16	15.69	28.74	67	21.00
17	15.69	28.74	68	21.00
18	15.69	28.74	68	21.00
19	15.69	28.74	70	21.00
20	15.69	28.74	70	21.00
21	15.69	28.74	72	21.00
22	15.69	28.74	71	21.00
23	15.69	28.74	75	21.00

Survey 95-05

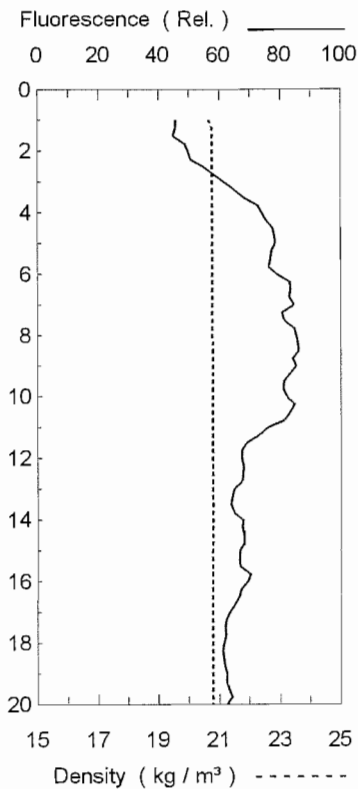
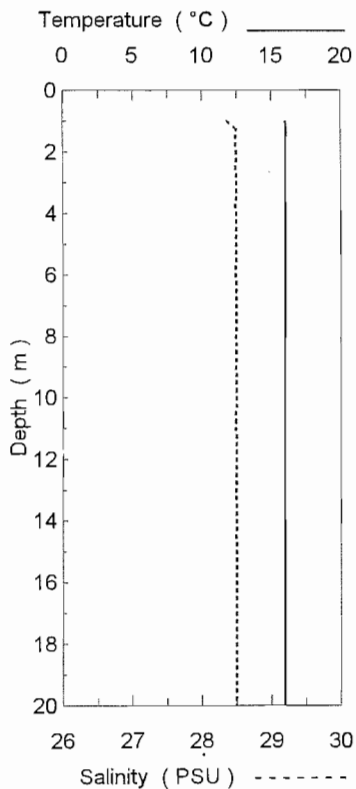
STATION 22



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	15.75	28.23		20.77
2	15.74	28.62	53	20.90
3	15.74	28.65	61	20.92
4	15.74	28.65	66	20.93
5	15.74	28.65	66	20.93
6	15.73	28.65	75	20.93
7	15.73	28.65	84	20.93
8	15.73	28.65	86	20.93
9	15.73	28.65	88	20.93
10	15.73	28.65	88	20.93
11	15.73	28.65	90	20.93
12	15.73	28.65	86	20.93
13	15.73	28.65	89	20.93
14	15.73	28.65	88	20.93
15	15.73	28.65	88	20.93
16	15.72	28.65	88	20.93
17	15.71	28.65	88	20.93
18	15.72	28.65	92	20.93
19	15.71	28.65	89	20.94
20	15.71	28.65	86	20.94
21	15.71	28.66	87	20.94
22	15.71	28.66	89	20.94
23	15.69	28.69	83	20.96
24	15.55	28.69	71	21.00
25	14.88	28.79	49	21.21
26	14.53	28.84	39	21.33
27	14.18	28.86	34	21.41
28	13.55	28.92	29	21.58
29	13.21	29.00	27	21.71
30	13.15	29.02	27	21.74
31	13.14	29.02	27	21.74
32	13.14	29.02	26	21.74

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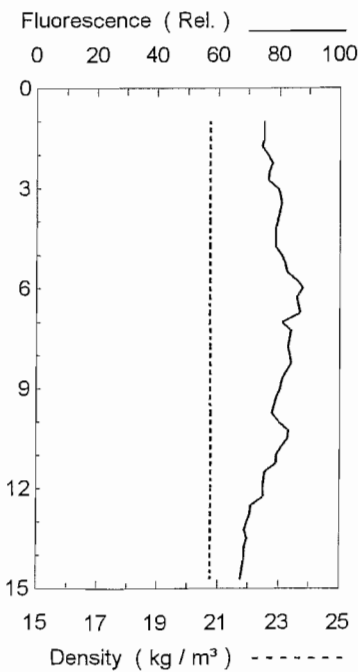
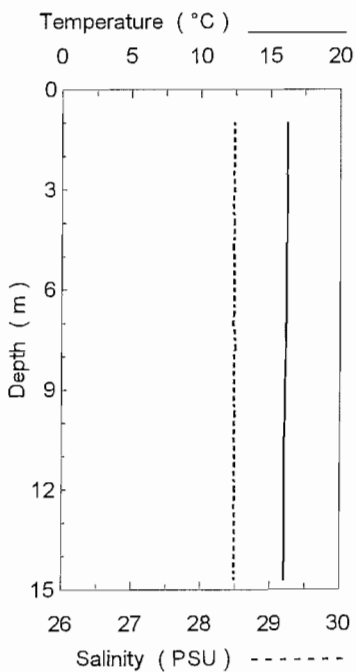
STATION 23



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	16.00	28.37	45	20.66
2	15.99	28.48	48	20.74
3	15.97	28.49	61	20.75
4	15.98	28.49	74	20.75
5	15.99	28.49	78	20.75
6	15.97	28.49	80	20.75
7	15.97	28.49	82	20.75
8	15.95	28.49	84	20.76
9	15.94	28.49	84	20.76
10	15.93	28.49	83	20.76
11	15.91	28.49	77	20.76
12	15.90	28.49	67	20.77
13	15.90	28.49	66	20.77
14	15.90	28.49	66	20.77
15	15.90	28.49	67	20.77
16	15.90	28.49	68	20.77
17	15.90	28.49	64	20.77
18	15.90	28.49	61	20.77
19	15.90	28.49	62	20.77
20	15.90	28.49	64	20.77

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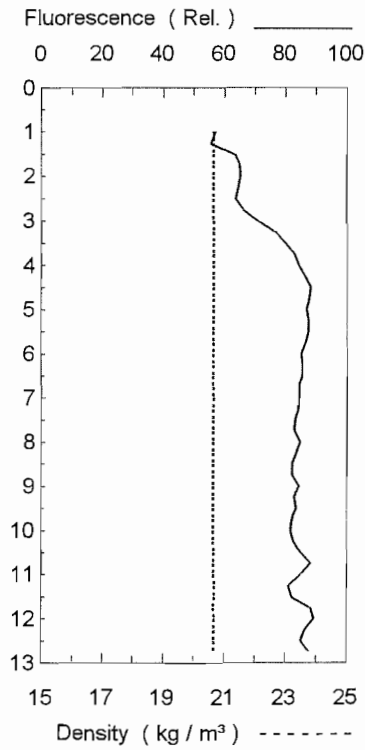
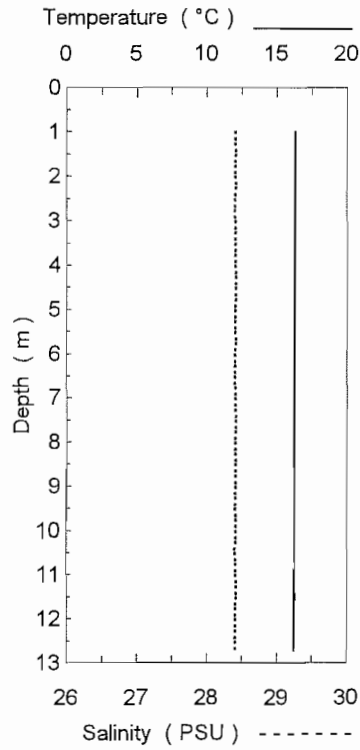
STATION 24



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m³)
1	16.17	28.44	75	20.67
2	16.16	28.47	75	20.70
3	16.13	28.47	79	20.70
4	16.13	28.47	79	20.71
5	16.10	28.47	81	20.71
6	16.10	28.47	86	20.71
7	16.08	28.47	85	20.72
8	16.07	28.48	83	20.72
9	16.02	28.47	80	20.73
10	15.99	28.48	81	20.74
11	15.97	28.48	79	20.75
12	15.97	28.48	75	20.75
13	15.96	28.48	69	20.75
14	15.96	28.48	69	20.75
15	15.96	28.48	67	20.75

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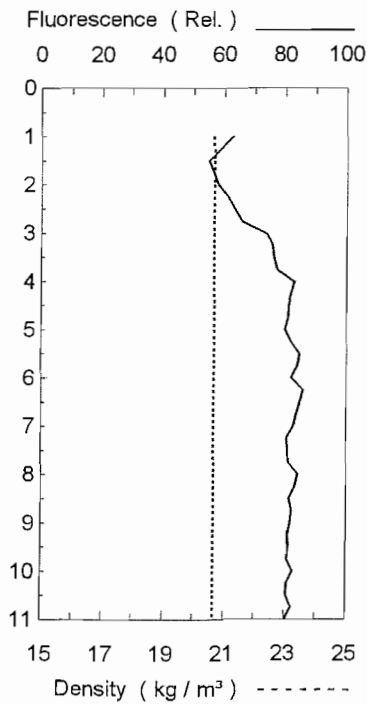
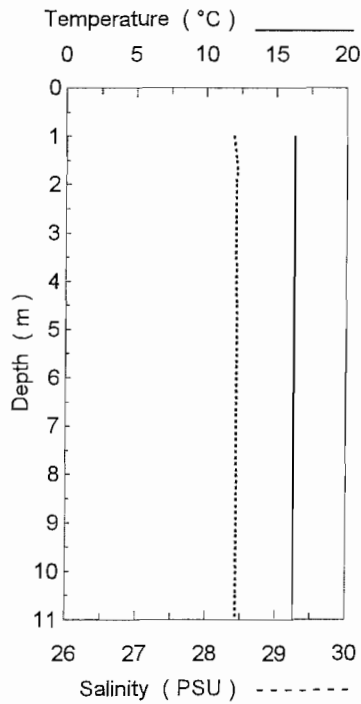
STATION 25



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	16.33	28.31	57	20.53
2	16.28	28.40	64	20.62
3	16.28	28.40	71	20.62
4	16.27	28.40	84	20.62
5	16.27	28.40	87	20.62
6	16.27	28.40	86	20.62
7	16.26	28.40	84	20.62
8	16.26	28.40	83	20.63
9	16.26	28.40	83	20.62
10	16.26	28.40	82	20.63
11	16.23	28.40	84	20.63
12	16.21	28.40	87	20.63
13	16.15	28.40	86	20.64

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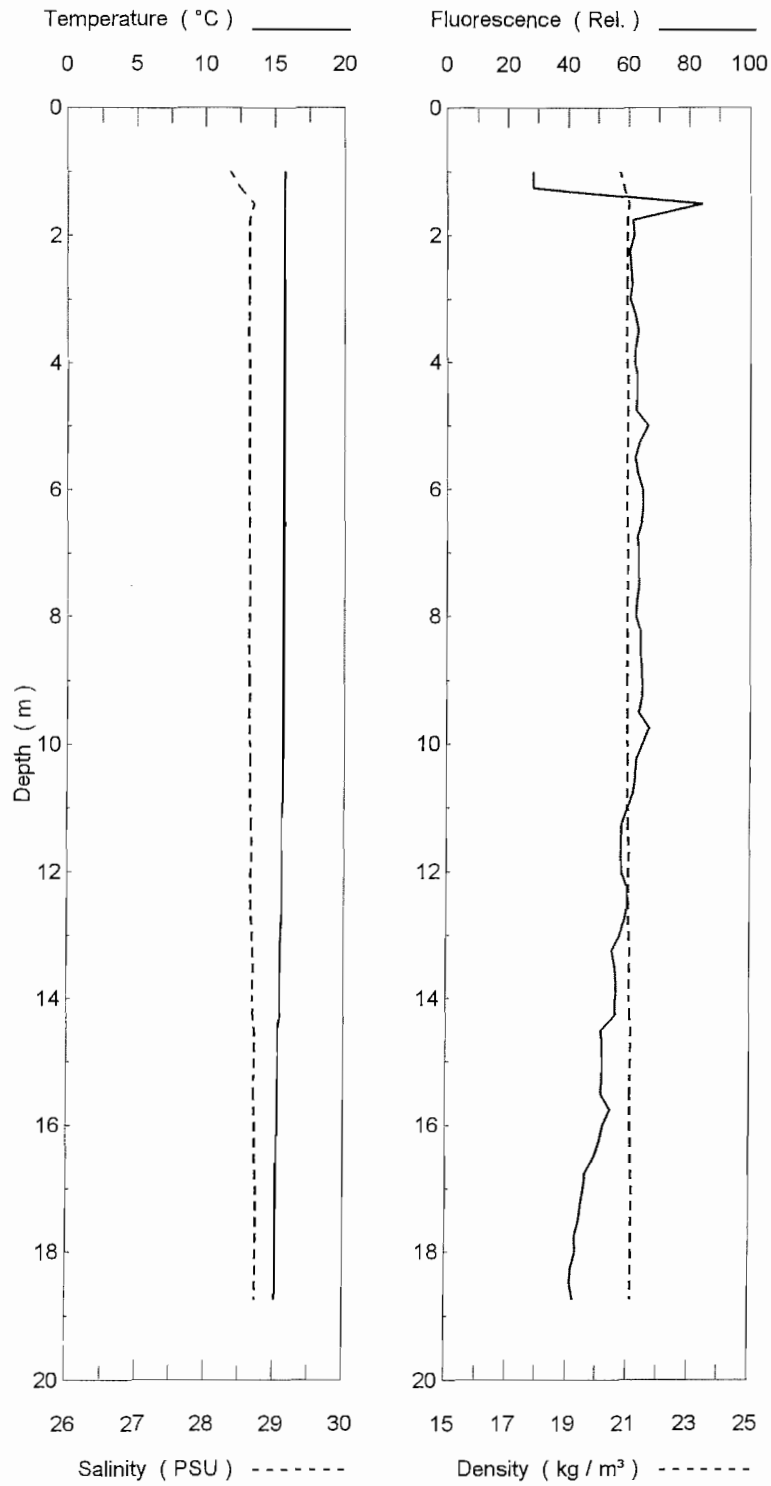
STATION 26



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	16.26	28.48	63	20.69
2	16.25	28.43	57	20.64
3	16.24	28.42	71	20.64
4	16.24	28.42	80	20.65
5	16.24	28.43	81	20.65
6	16.24	28.43	84	20.65
7	16.23	28.42	83	20.65
8	16.22	28.43	82	20.65
9	16.22	28.43	81	20.65
10	16.22	28.43	81	20.65
11	16.22	28.43	81	20.65

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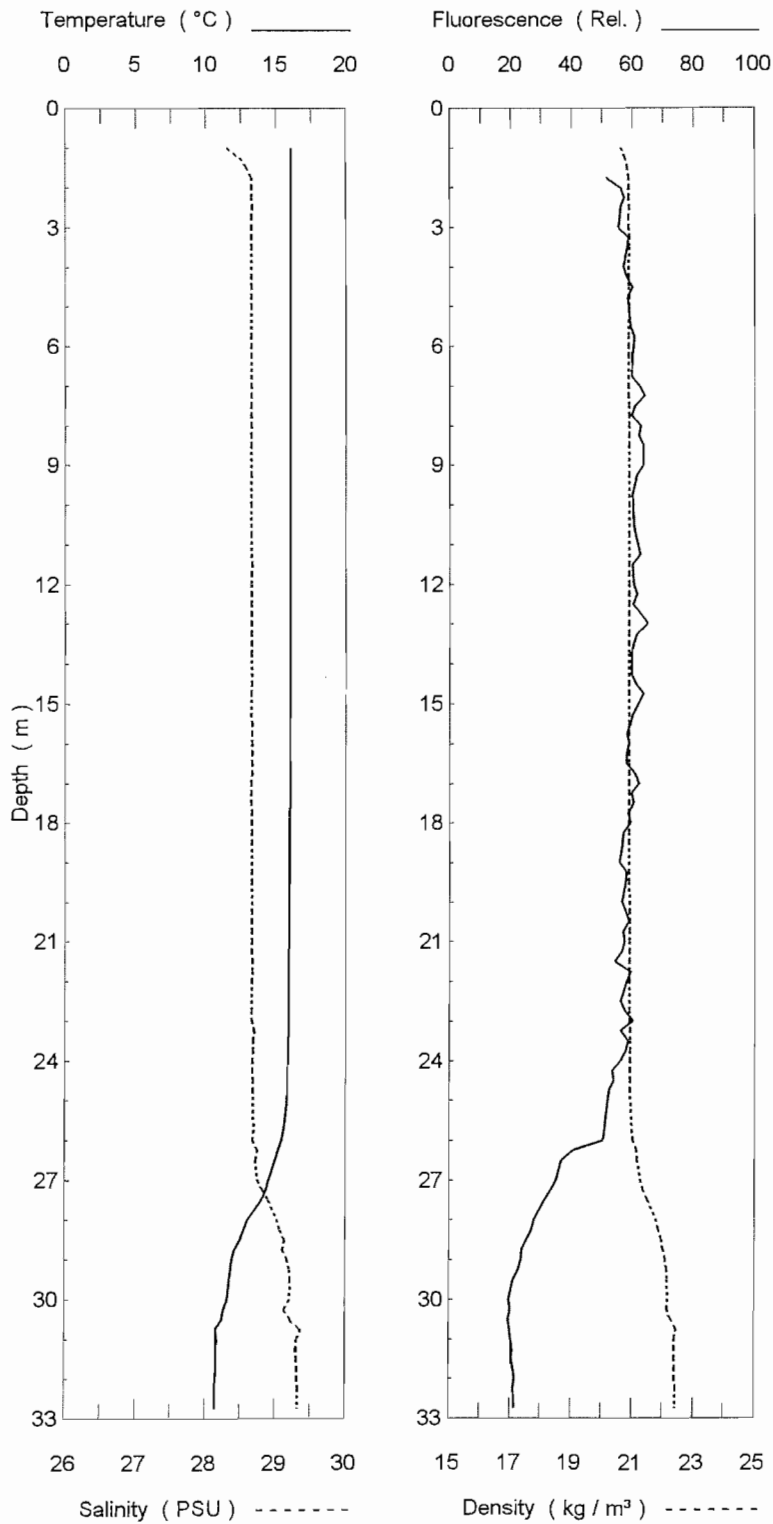
STATION 27



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	15.66	28.35	29	20.71
2	15.63	28.61	60	20.92
3	15.63	28.62	62	20.92
4	15.63	28.62	62	20.93
5	15.63	28.62	63	20.93
6	15.63	28.62	64	20.93
7	15.61	28.62	63	20.93
8	15.61	28.63	63	20.94
9	15.60	28.63	64	20.94
10	15.59	28.63	64	20.94
11	15.51	28.65	60	20.98
12	15.51	28.65	58	20.98
13	15.43	28.67	58	21.01
14	15.33	28.70	55	21.05
15	15.26	28.71	52	21.08
16	15.22	28.72	53	21.09
17	15.16	28.74	46	21.12
18	15.13	28.74	43	21.13
19	15.11	28.75	41	21.13

Survey 95-05

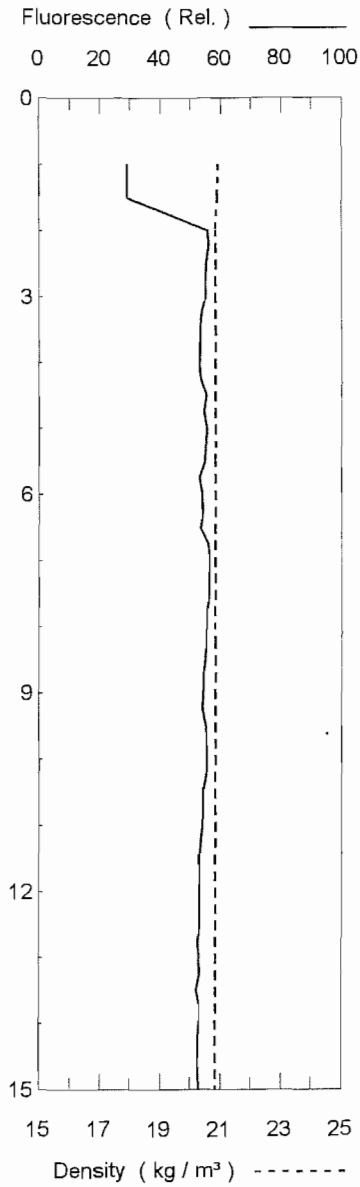
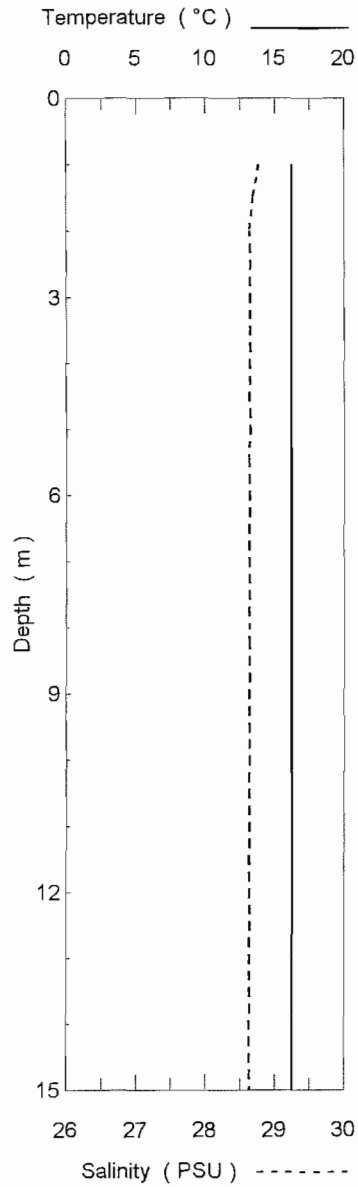
STATION 28



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	16.05	28.15		20.48
2	16.04	28.65	56	20.86
3	16.03	28.65	57	20.86
4	16.03	28.65	58	20.87
5	16.03	28.65	59	20.87
6	16.03	28.65	60	20.86
7	16.03	28.65	62	20.87
8	16.03	28.65	61	20.87
9	16.03	28.65	63	20.87
10	16.03	28.65	59	20.87
11	16.03	28.65	61	20.87
12	16.03	28.65	61	20.87
13	16.03	28.65	62	20.87
14	16.02	28.65	60	20.87
15	16.02	28.65	63	20.87
16	16.01	28.66	58	20.87
17	16.00	28.65	60	20.87
18	15.99	28.65	58	20.88
19	15.98	28.66	57	20.88
20	15.96	28.66	58	20.89
21	15.95	28.66	57	20.89
22	15.94	28.66	59	20.89
23	15.93	28.67	57	20.90
24	15.87	28.67	56	20.92
25	15.80	28.67	51	20.93
26	15.35	28.70	46	21.05
27	14.50	28.79	35	21.29
28	13.08	29.00	28	21.74
29	12.01	29.16	23	22.06
30	11.48	29.20	20	22.18
31	10.84	29.31	20	22.38
32	10.75	29.32	21	22.40
33	10.70	29.32	22	22.41

Survey 95-05

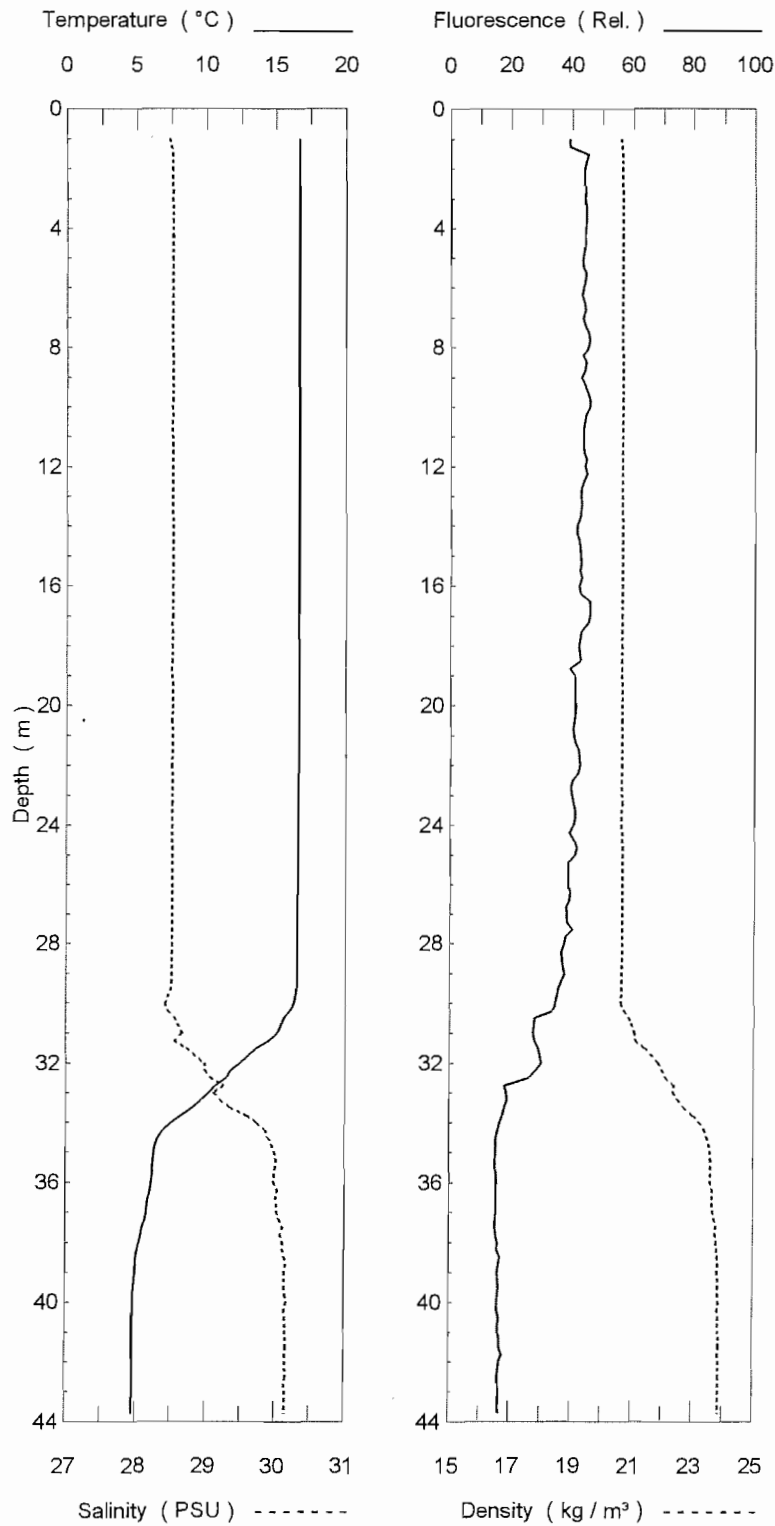
STATION 29



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.25	28.76	29	20.91
2	16.21	28.60	48	20.79
3	16.20	28.64	54	20.82
4	16.20	28.64	53	20.82
5	16.20	28.64	55	20.81
6	16.20	28.63	54	20.81
7	16.20	28.63	55	20.81
8	16.20	28.63	55	20.81
9	16.20	28.63	54	20.81
10	16.20	28.63	55	20.81
11	16.20	28.63	54	20.81
12	16.20	28.63	53	20.81
13	16.20	28.63	53	20.81
14	16.20	28.63	52	20.81
15	16.20	28.63	53	20.81

Survey 95-05

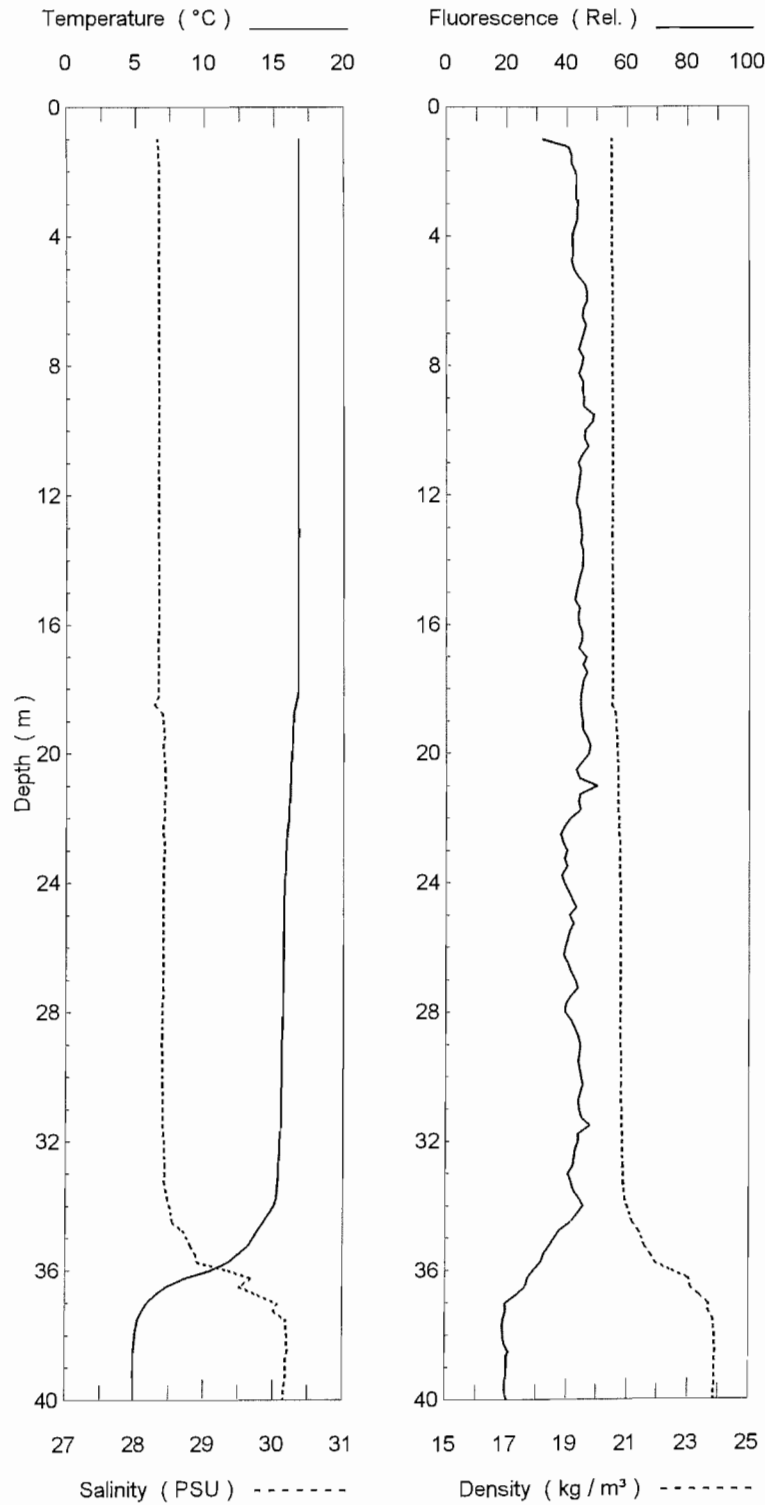
STATION 30



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.65	28.47	39	20.59
2	16.63	28.51	45	20.62
3	16.63	28.51	44	20.62
4	16.63	28.51	44	20.62
5	16.63	28.51	43	20.62
6	16.63	28.51	44	20.62
7	16.63	28.51	44	20.62
8	16.62	28.51	45	20.62
9	16.62	28.51	44	20.62
10	16.63	28.51	45	20.62
11	16.61	28.51	43	20.63
12	16.60	28.51	44	20.63
13	16.60	28.51	43	20.63
14	16.60	28.51	42	20.63
15	16.60	28.51	43	20.63
16	16.60	28.51	43	20.63
17	16.60	28.51	46	20.63
18	16.60	28.51	42	20.63
19	16.60	28.51	41	20.63
20	16.60	28.51	41	20.63
21	16.59	28.51	41	20.63
22	16.59	28.51	42	20.63
23	16.58	28.51	39	20.64
24	16.58	28.51	41	20.63
25	16.57	28.51	40	20.64
26	16.56	28.51	39	20.64
27	16.56	28.51	39	20.64
28	16.55	28.51	37	20.64
29	16.55	28.51	37	20.64
30	16.15	28.46	33	20.69
31	14.83	28.59	28	21.07
32	12.22	28.97	29	21.87
33	10.23	29.20	20	22.39
34	7.66	29.72	17	23.17
35	6.38	29.98	15	23.54
36	6.07	29.99	15	23.59
37	5.70	30.05	15	23.68
38	5.23	30.10	16	23.77
39	4.93	30.14	16	23.84
40	4.81	30.15	16	23.85
41	4.78	30.16	16	23.86
42	4.77	30.14	17	23.85
43	4.74	30.14	16	23.85
44	4.74	30.15	16	23.86

Survey 95-05

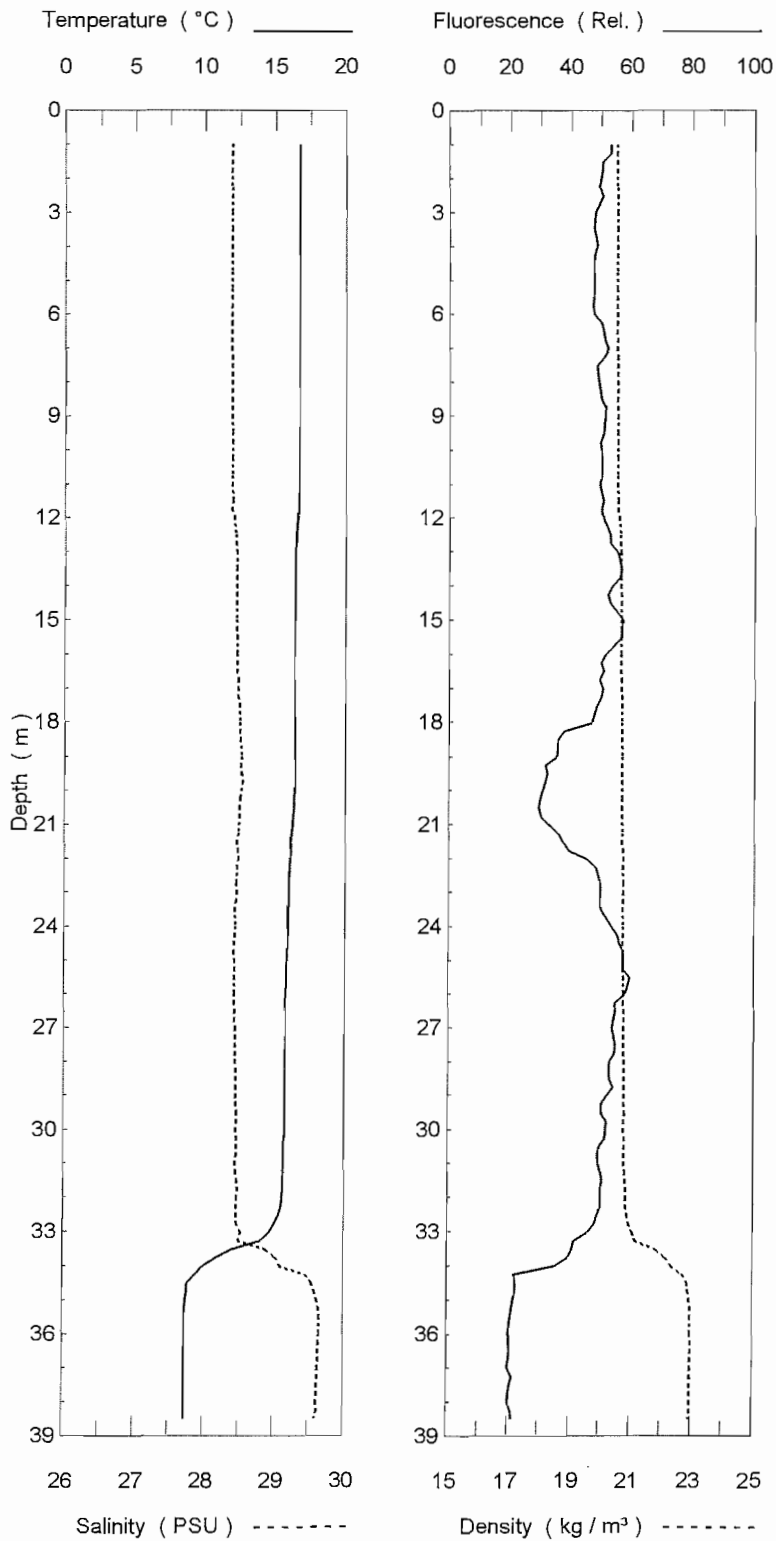
STATION 31



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.78	28.30	39	20.43
2	16.76	28.33	42	20.46
3	16.77	28.33	43	20.46
4	16.77	28.33	42	20.46
5	16.75	28.33	43	20.46
6	16.74	28.33	46	20.47
7	16.74	28.33	45	20.47
8	16.74	28.33	44	20.47
9	16.74	28.33	45	20.47
10	16.73	28.34	46	20.47
11	16.73	28.33	45	20.47
12	16.72	28.33	43	20.47
13	16.73	28.33	44	20.47
14	16.72	28.33	45	20.47
15	16.72	28.33	43	20.47
16	16.72	28.33	44	20.47
17	16.71	28.33	45	20.47
18	16.67	28.32	45	20.47
19	16.41	28.39	45	20.59
20	16.26	28.42	46	20.63
21	16.17	28.43	44	20.67
22	16.04	28.41	42	20.68
23	15.86	28.41	39	20.72
24	15.76	28.40	39	20.73
25	15.72	28.40	42	20.74
26	15.69	28.40	39	20.75
27	15.65	28.40	42	20.75
28	15.63	28.39	40	20.75
29	15.58	28.39	44	20.76
30	15.54	28.39	44	20.77
31	15.52	28.40	44	20.78
32	15.43	28.41	44	20.81
33	15.31	28.43	41	20.85
34	14.96	28.47	44	20.96
35	13.44	28.76	35	21.48
36	10.21	29.34	29	22.49
37	6.06	29.92	21	23.53
38	5.12	30.16	19	23.83
39	4.92	30.17	20	23.86
40	4.92	30.16	20	23.85

Survey 95-05

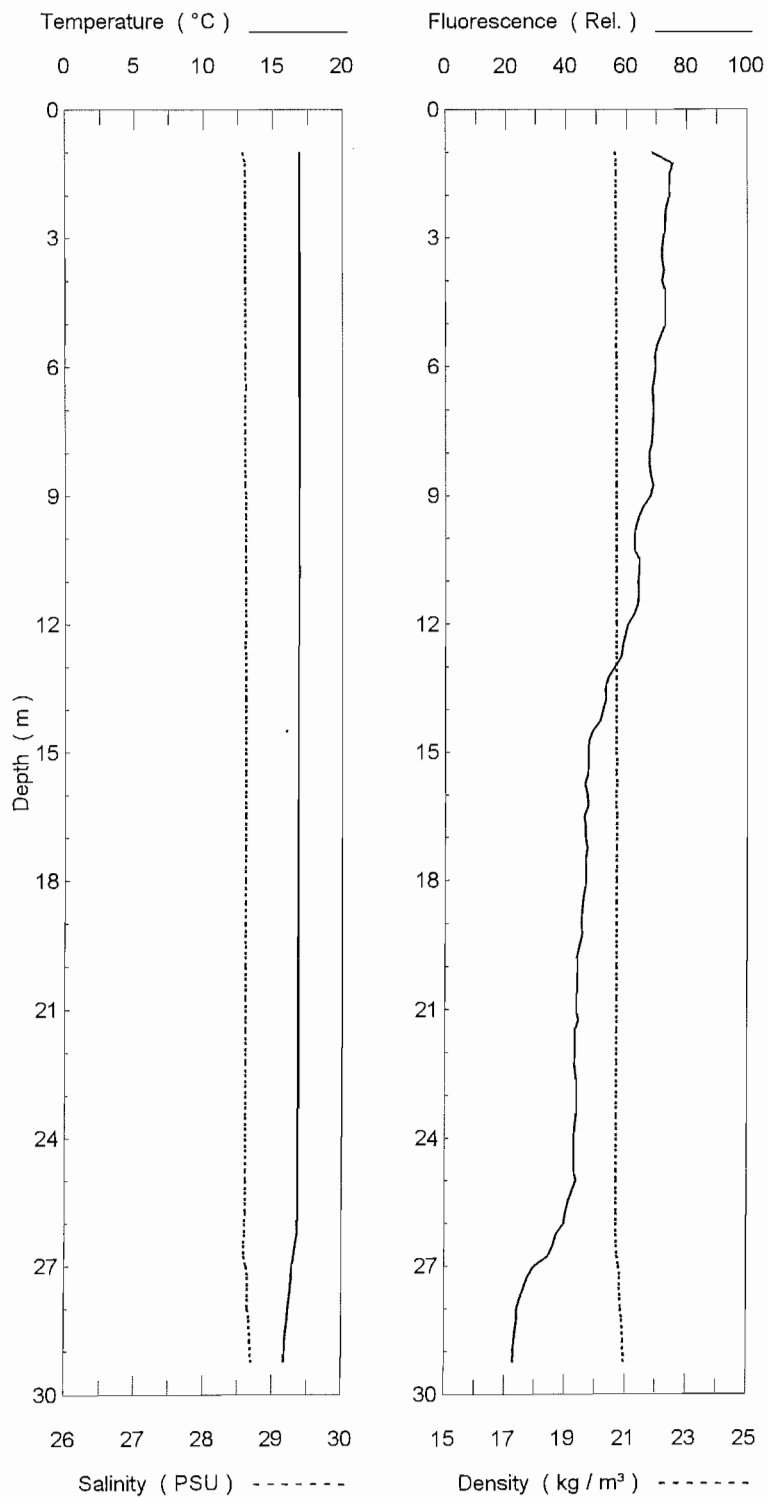
STATION 32



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.72	28.33	53	20.46
2	16.70	28.36	45	20.50
3	16.69	28.37	48	20.50
4	16.69	28.37	48	20.51
5	16.69	28.37	47	20.51
6	16.70	28.37	48	20.51
7	16.70	28.37	52	20.51
8	16.70	28.37	49	20.51
9	16.69	28.37	51	20.51
10	16.68	28.38	50	20.51
11	16.66	28.38	50	20.52
12	16.54	28.40	51	20.57
13	16.41	28.44	54	20.62
14	16.38	28.44	54	20.63
15	16.36	28.45	56	20.64
16	16.34	28.46	52	20.65
17	16.35	28.46	50	20.65
18	16.37	28.49	43	20.67
19	16.41	28.51	34	20.68
20	16.39	28.51	31	20.68
21	16.23	28.48	33	20.69
22	16.07	28.46	45	20.71
23	15.98	28.45	49	20.72
24	15.93	28.43	53	20.72
25	15.86	28.42	57	20.73
26	15.80	28.43	56	20.74
27	15.77	28.43	54	20.75
28	15.76	28.44	54	20.76
29	15.74	28.45	52	20.77
30	15.73	28.46	51	20.79
31	15.68	28.45	49	20.79
32	15.55	28.47	50	20.83
33	14.37	28.56	45	21.14
34	10.18	29.19	33	22.38
35	8.83	29.60	22	22.92
36	8.68	29.65	20	22.98
37	8.68	29.63	21	22.97
38	8.67	29.62	20	22.96

Survey 95-05

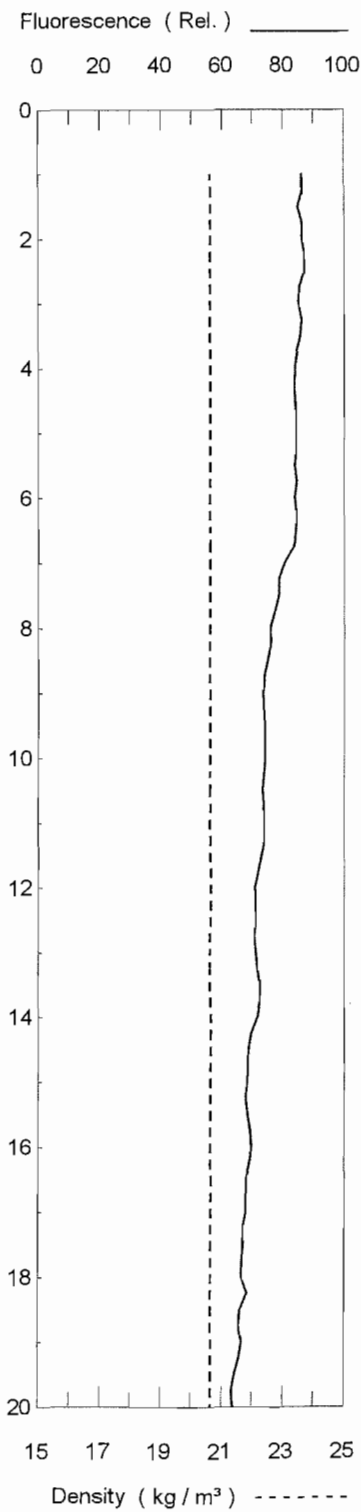
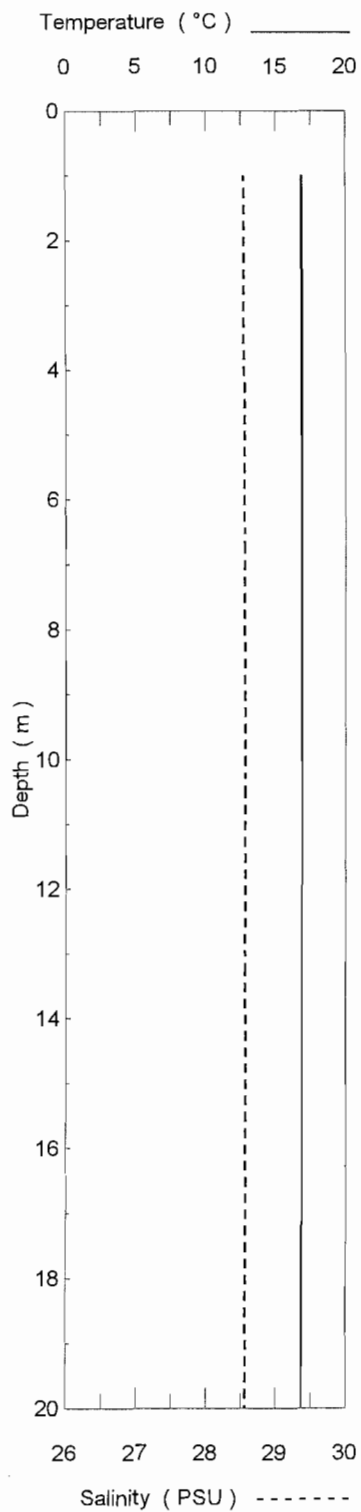
STATION 33



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.90	28.50	68	20.56
2	16.89	28.59	72	20.62
3	16.89	28.59	72	20.63
4	16.89	28.59	72	20.63
5	16.89	28.59	72	20.63
6	16.88	28.60	69	20.63
7	16.88	28.60	69	20.64
8	16.88	28.60	68	20.64
9	16.87	28.60	67	20.64
10	16.87	28.60	63	20.64
11	16.87	28.60	64	20.64
12	16.86	28.60	61	20.64
13	16.84	28.60	56	20.64
14	16.83	28.60	52	20.65
15	16.82	28.60	47	20.65
16	16.82	28.60	47	20.65
17	16.82	28.60	46	20.65
18	16.82	28.60	46	20.65
19	16.81	28.60	45	20.65
20	16.81	28.60	44	20.65
21	16.81	28.60	44	20.65
22	16.81	28.60	43	20.65
23	16.81	28.60	44	20.65
24	16.81	28.60	43	20.65
25	16.80	28.60	43	20.65
26	16.76	28.59	39	20.66
27	16.41	28.61	31	20.75
28	16.13	28.65	24	20.84
29	15.83	28.69	23	20.94

Survey 95-05

STATION 34

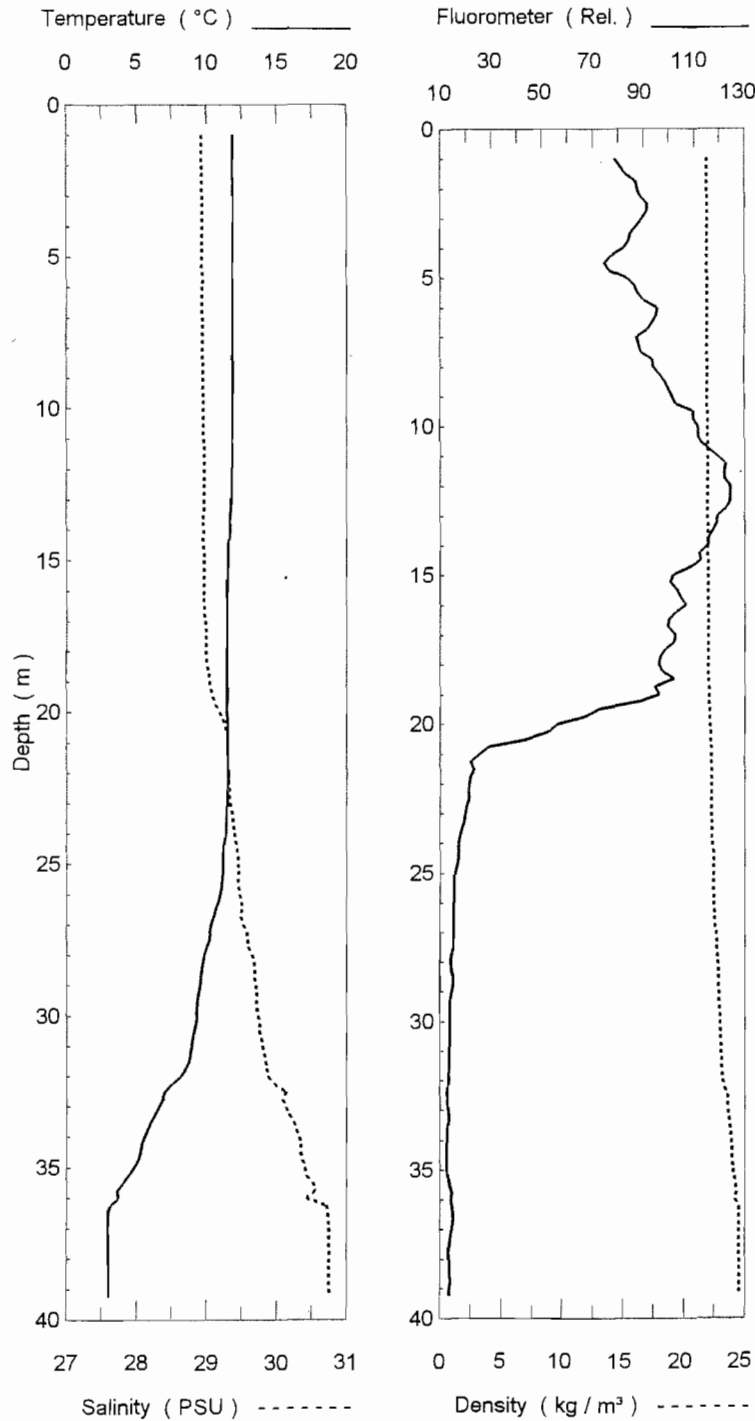


Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	16.87	28.54	86	20.59
2	16.86	28.53	85	20.59
3	16.86	28.54	86	20.60
4	16.85	28.54	84	20.60
5	16.85	28.54	84	20.60
6	16.85	28.54	84	20.60
7	16.84	28.55	81	20.61
8	16.84	28.55	77	20.61
9	16.84	28.55	74	20.61
10	16.84	28.55	74	20.61
11	16.84	28.55	74	20.61
12	16.84	28.56	71	20.61
13	16.84	28.55	71	20.61
14	16.84	28.55	71	20.61
15	16.83	28.56	68	20.61
16	16.84	28.56	69	20.61
17	16.83	28.56	67	20.62
18	16.83	28.56	67	20.62
19	16.82	28.56	65	20.62
20	16.82	28.56	63	20.62

Appendix 5.6 Survey 95-06 CTD profiles of temperature ($^{\circ}\text{C}$), salinity (PSU), density (kg/m^3) and fluorescence (relative).

Survey 95-06

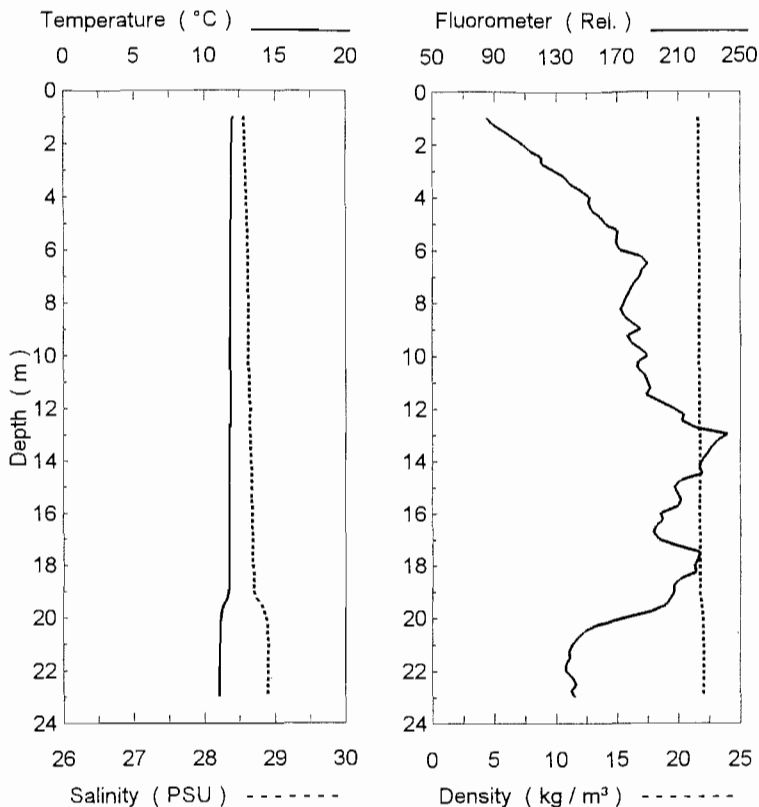
STATION 1



Depth (m)	Temp. ($^{\circ}\text{C}$)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m^3)
1	11.89	28.97	79	21.93
2	11.88	28.93	91	21.90
3	11.89	28.94	89	21.91
4	11.89	28.94	81	21.91
5	11.88	28.94	83	21.91
6	11.87	28.94	93	21.91
7	11.87	28.94	89	21.91
8	11.87	28.94	94	21.91
9	11.86	28.95	102	21.92
10	11.85	28.96	111	21.93
11	11.84	28.96	118	21.93
12	11.83	28.97	124	21.94
13	11.79	28.97	121	21.95
14	11.66	28.95	115	21.96
15	11.54	28.96	105	21.99
16	11.51	28.96	104	21.99
17	11.49	28.98	101	22.01
18	11.50	29.00	98	22.02
19	11.50	29.05	90	22.06
20	11.47	29.17	58	22.16
21	11.55	29.30	28	22.25
22	11.54	29.31	22	22.26
23	11.47	29.35	20	22.30
24	11.36	29.40	17	22.36
25	11.18	29.44	16	22.42
26	10.93	29.48	15	22.50
27	10.39	29.54	15	22.63
28	9.87	29.63	14	22.79
29	9.53	29.70	14	22.89
30	9.28	29.74	14	22.96
31	8.94	29.80	14	23.06
32	8.04	29.92	13	23.28
33	6.57	30.15	13	23.66
34	5.60	30.31	13	23.90
35	4.79	30.41	13	24.06
36	3.51	30.56	14	24.30
37	2.94	30.75	15	24.50
38	2.99	30.75	13	24.50
39	2.98	30.74	14	24.49

Survey 95-06

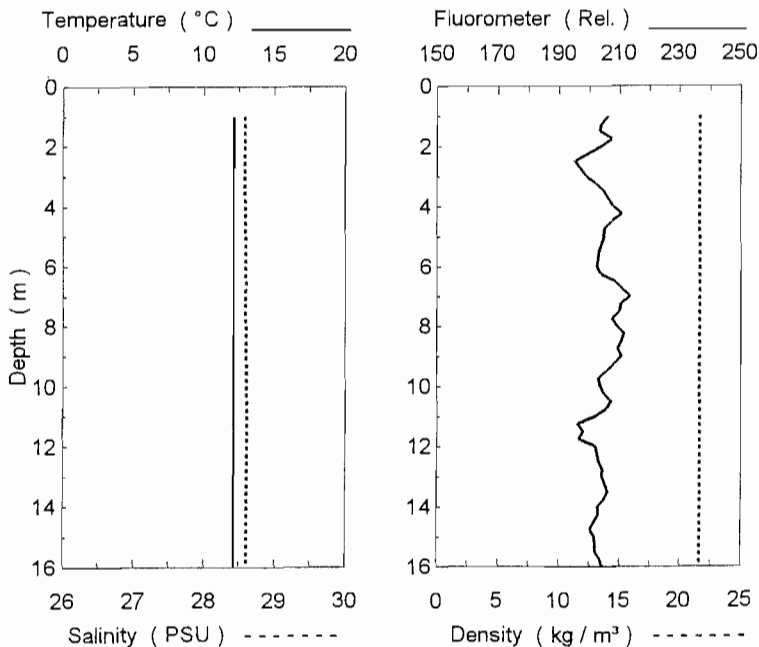
STATION 2



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.01	28.56	86	21.59
2	11.95	28.58	108	21.61
3	11.93	28.59	128	21.63
4	11.92	28.60	149	21.64
5	11.90	28.60	163	21.64
6	11.87	28.61	175	21.66
7	11.86	28.62	184	21.66
8	11.86	28.62	174	21.67
9	11.86	28.62	179	21.67
10	11.86	28.63	184	21.67
11	11.86	28.63	189	21.68
12	11.86	28.64	206	21.68
13	11.76	28.65	230	21.70
14	11.73	28.66	227	21.72
15	11.76	28.67	211	21.72
16	11.78	28.68	204	21.73
17	11.77	28.68	201	21.73
18	11.74	28.69	222	21.74
19	11.69	28.71	206	21.77
20	11.16	28.87	176	21.98
21	11.08	28.90	142	22.02
22	11.07	28.90	138	22.02
23	11.07	28.90	143	22.02

Survey 95-06

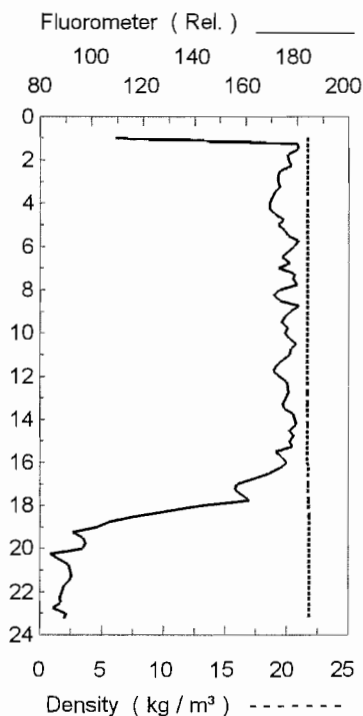
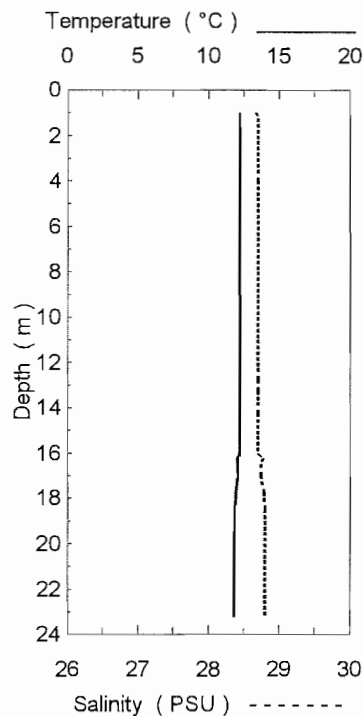
STATION 3



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.09	28.58	206	21.60
2	12.09	28.58	202	21.59
3	12.09	28.58	201	21.60
4	12.09	28.59	209	21.60
5	12.10	28.59	205	21.60
6	12.10	28.59	203	21.60
7	12.10	28.59	211	21.60
8	12.10	28.59	209	21.60
9	12.11	28.60	209	21.61
10	12.12	28.61	204	21.61
11	12.12	28.61	203	21.61
12	12.12	28.61	201	21.61
13	12.12	28.61	205	21.61
14	12.12	28.61	204	21.61
15	12.12	28.61	201	21.61
16	12.12	28.61	204	21.61

Survey 95-06

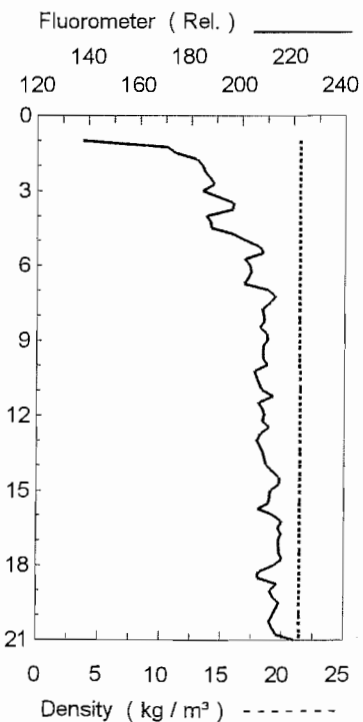
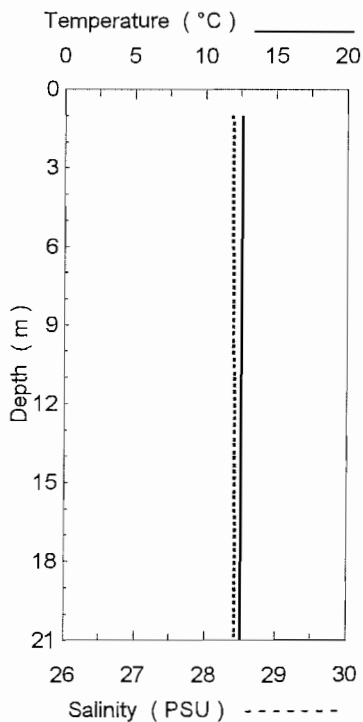
STATION 4



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.20	28.62	109	21.60
2	12.20	28.69	170	21.66
3	12.20	28.70	173	21.66
4	12.20	28.70	170	21.66
5	12.20	28.70	174	21.66
6	12.20	28.70	178	21.66
7	12.20	28.70	177	21.66
8	12.20	28.70	175	21.66
9	12.20	28.70	177	21.67
10	12.20	28.70	175	21.67
11	12.20	28.70	176	21.67
12	12.20	28.70	172	21.67
13	12.20	28.70	176	21.66
14	12.20	28.70	178	21.66
15	12.20	28.70	177	21.66
16	12.17	28.71	175	21.68
17	12.04	28.75	158	21.73
18	11.91	28.79	140	21.79
19	11.83	28.80	103	21.81
20	11.81	28.80	92	21.82
21	11.81	28.80	91	21.82
22	11.80	28.80	89	21.82
23	11.80	28.80	88	21.82

Survey 95-06

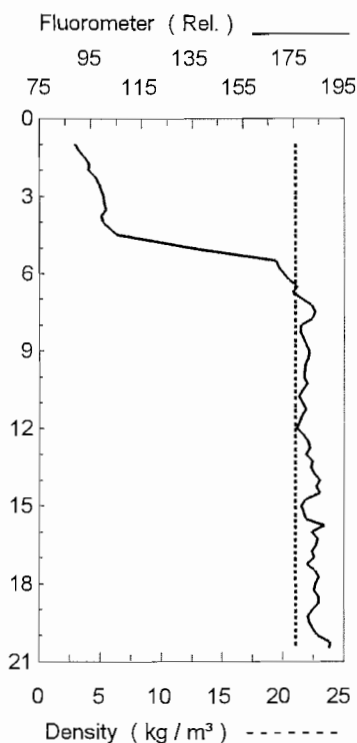
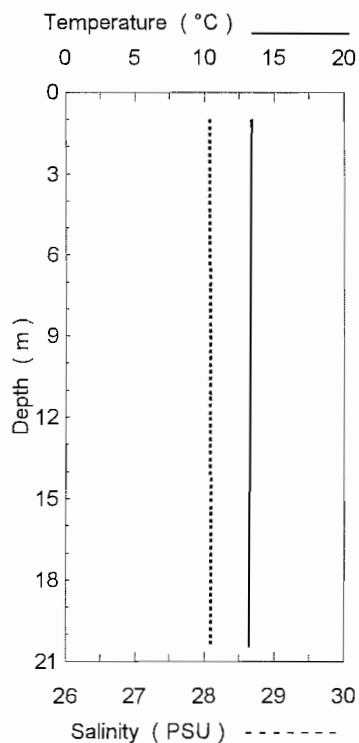
STATION 5



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.56	27.98	138	21.35
2	12.56	28.33	172	21.35
3	12.56	28.38	189	21.36
4	12.56	28.39	192	21.36
5	12.56	28.39	198	21.36
6	12.55	28.39	205	21.36
7	12.54	28.40	208	21.37
8	12.54	28.40	208	21.37
9	12.54	28.40	209	21.37
10	12.54	28.40	208	21.37
11	12.53	28.41	209	21.38
12	12.52	28.42	207	21.39
13	12.52	28.42	208	21.39
14	12.52	28.42	211	21.39
15	12.52	28.42	211	21.39
16	12.52	28.42	213	21.39
17	12.52	28.42	215	21.39
18	12.52	28.42	211	21.39
19	12.52	28.42	212	21.39
20	12.52	28.42	213	21.39
21	12.52	28.42	219	21.39

Survey 95-06

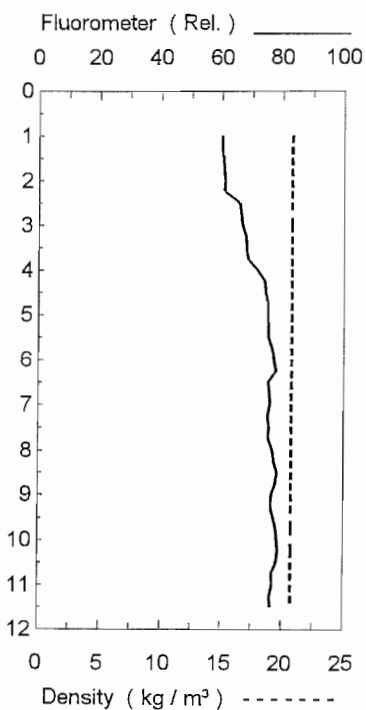
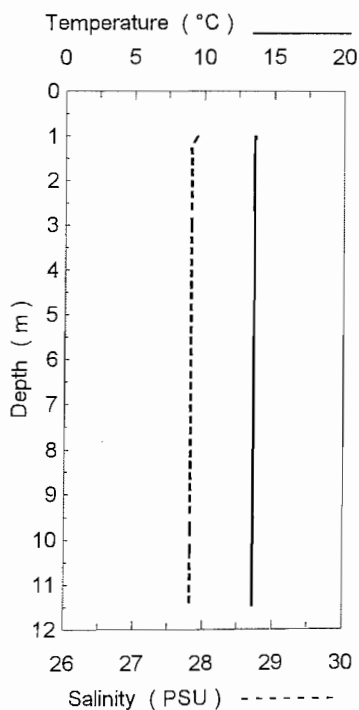
STATION 6



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.35	28.07	78	20.86
2	13.35	28.08	96	20.98
3	13.34	28.07	100	20.97
4	13.33	28.07	102	20.97
5	13.32	28.08	140	20.98
6	13.31	28.08	169	20.98
7	13.29	28.08	179	20.99
8	13.28	28.08	181	20.99
9	13.28	28.08	181	20.99
10	13.28	28.08	180	20.99
11	13.27	28.08	177	20.99
12	13.26	28.08	178	20.99
13	13.26	28.09	182	21.00
14	13.25	28.09	184	21.00
15	13.24	28.09	180	21.00
16	13.24	28.09	184	21.00
17	13.23	28.09	183	21.01
18	13.23	28.09	184	21.01
19	13.22	28.10	183	21.01
20	13.22	28.10	185	21.01
21	13.22	28.10	193	21.01

Survey 95-06

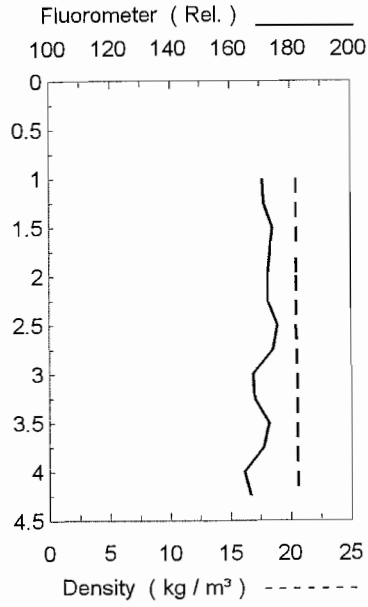
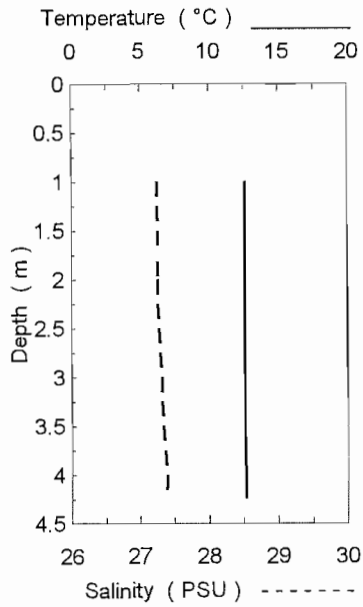
STATION 7



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.62	27.91	60	20.79
2	13.60	27.82	63	20.72
3	13.61	27.82	67	20.72
4	13.61	27.82	71	20.72
5	13.60	27.82	75	20.72
6	13.60	27.81	77	20.72
7	13.60	27.82	76	20.72
8	13.60	27.82	77	20.72
9	13.60	27.82	77	20.72
10	13.60	27.82	78	20.72
11	13.59	27.82	77	20.73
12	13.59	27.82	76	20.73

Survey 95-06

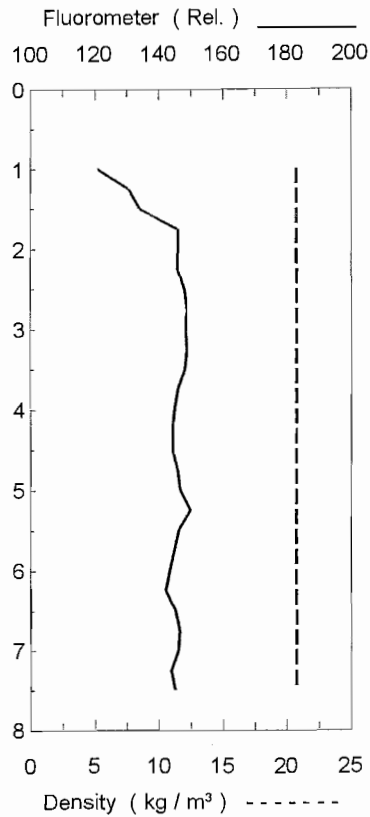
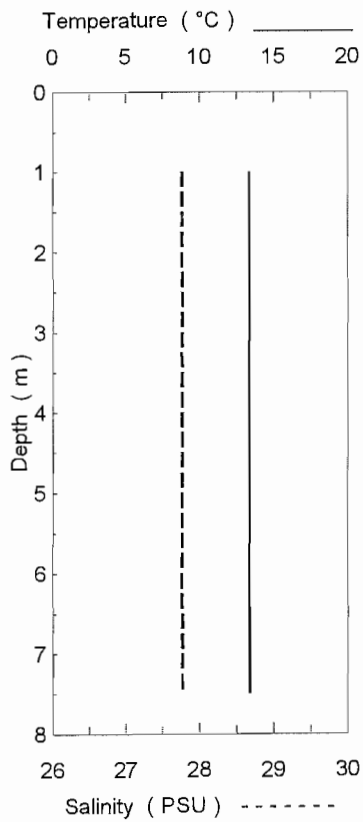
STATION 8



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.58	27.25	171	20.48
2	12.61	27.27	173	20.48
3	12.64	27.31	172	20.51
4	12.68	27.38	168	20.56

Survey 95-06

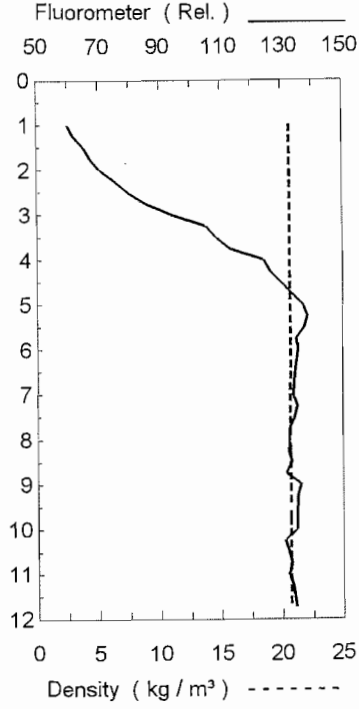
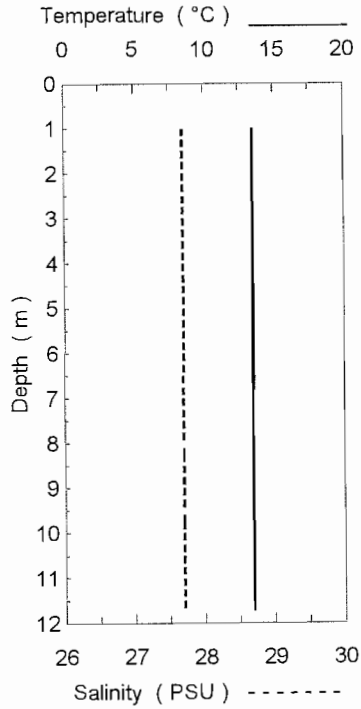
STATION 9



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.37	27.76	117	20.72
2	13.38	27.76	145	20.72
3	13.38	27.76	149	20.72
4	13.38	27.76	145	20.72
5	13.37	27.76	147	20.72
6	13.37	27.76	144	20.72
7	13.37	27.76	146	20.72
8	13.37	27.76	143	20.72

Survey 95-06

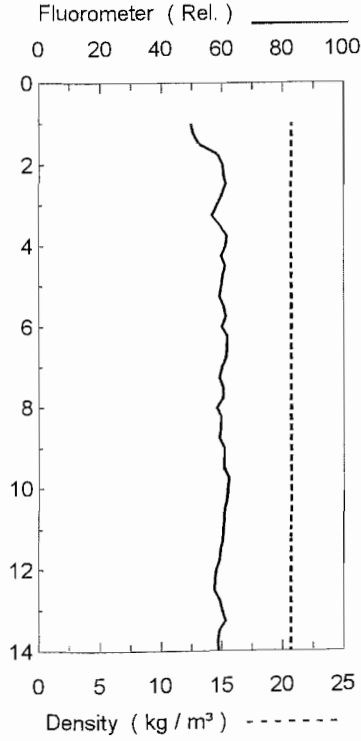
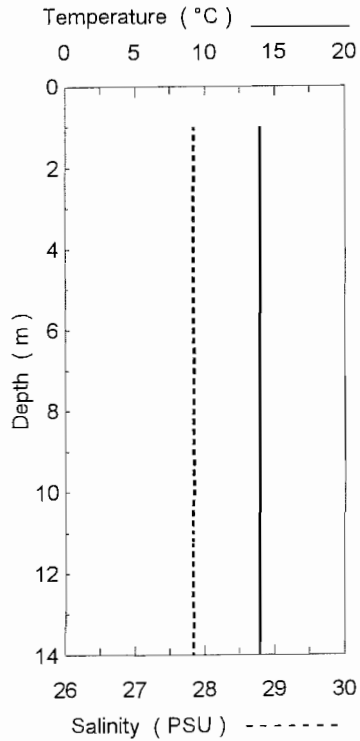
STATION 10



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.52	27.70	48	20.64
2	13.52	27.70	71	20.64
3	13.52	27.70	94	20.65
4	13.52	27.70	121	20.65
5	13.51	27.70	135	20.65
6	13.52	27.70	135	20.65
7	13.52	27.70	134	20.65
8	13.52	27.70	133	20.65
9	13.52	27.70	133	20.65
10	13.51	27.70	134	20.65
11	13.51	27.70	133	20.65
12	13.51	27.70	135	20.65

Survey 95-06

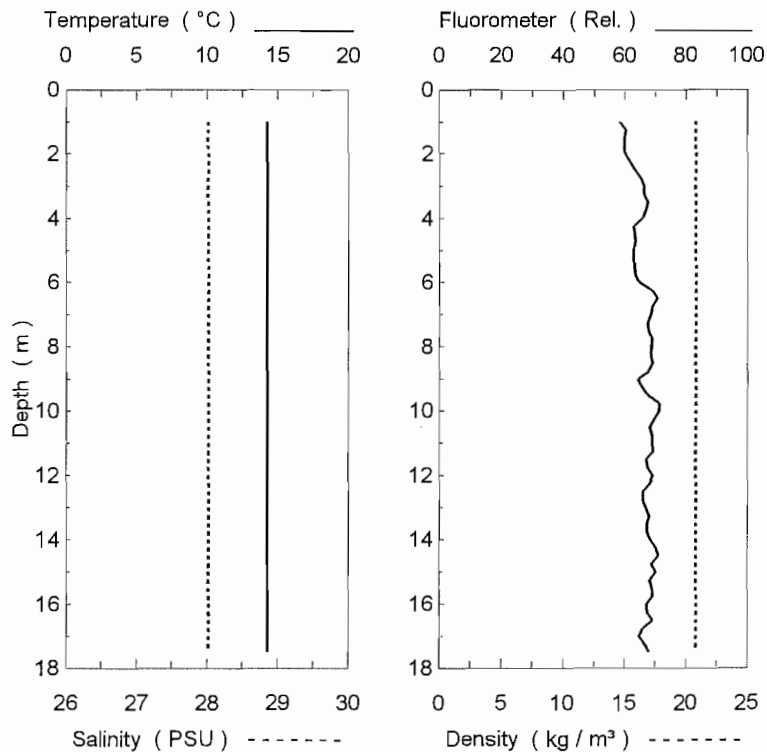
STATION 11



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.97	27.84	49	20.67
2	13.97	27.84	59	20.67
3	13.97	27.84	59	20.67
4	13.96	27.84	61	20.67
5	13.97	27.84	60	20.67
6	13.97	27.84	61	20.67
7	13.96	27.84	60	20.67
8	13.96	27.84	60	20.67
9	13.96	27.84	60	20.67
10	13.96	27.84	62	20.67
11	13.96	27.84	60	20.67
12	13.97	27.84	58	20.67
13	13.96	27.84	60	20.67
14	13.96	27.84	58	20.67

Survey 95-06

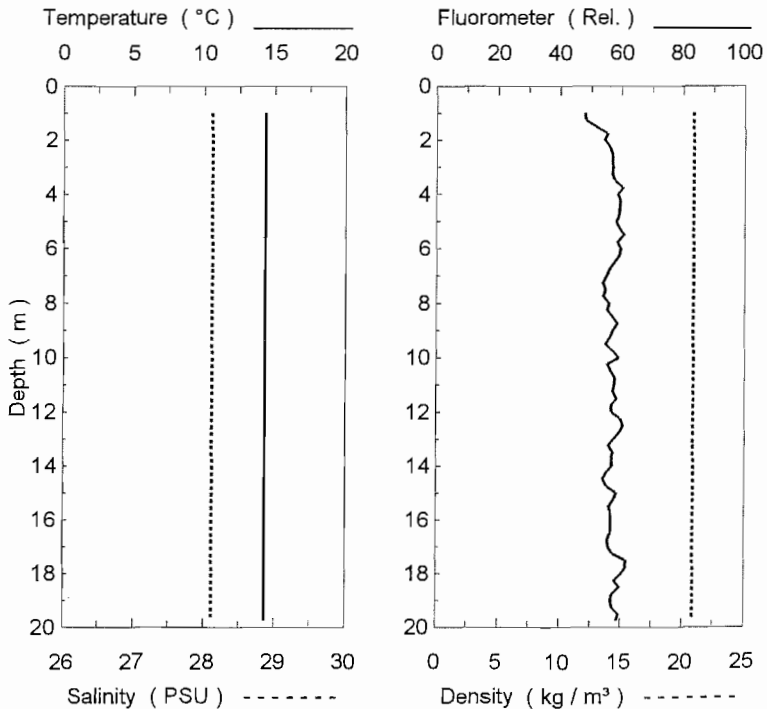
STATION 12



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.26	28.02	57	20.75
2	14.26	28.02	61	20.75
3	14.26	28.02	66	20.75
4	14.26	28.02	66	20.75
5	14.26	28.02	63	20.75
6	14.26	28.02	66	20.75
7	14.26	28.02	68	20.75
8	14.26	28.02	69	20.75
9	14.26	28.02	67	20.75
10	14.26	28.02	70	20.75
11	14.26	28.02	69	20.75
12	14.26	28.02	68	20.75
13	14.26	28.02	66	20.75
14	14.26	28.02	69	20.75
15	14.26	28.02	69	20.75
16	14.26	28.02	68	20.75
17	14.26	28.02	67	20.75

Survey 95-06

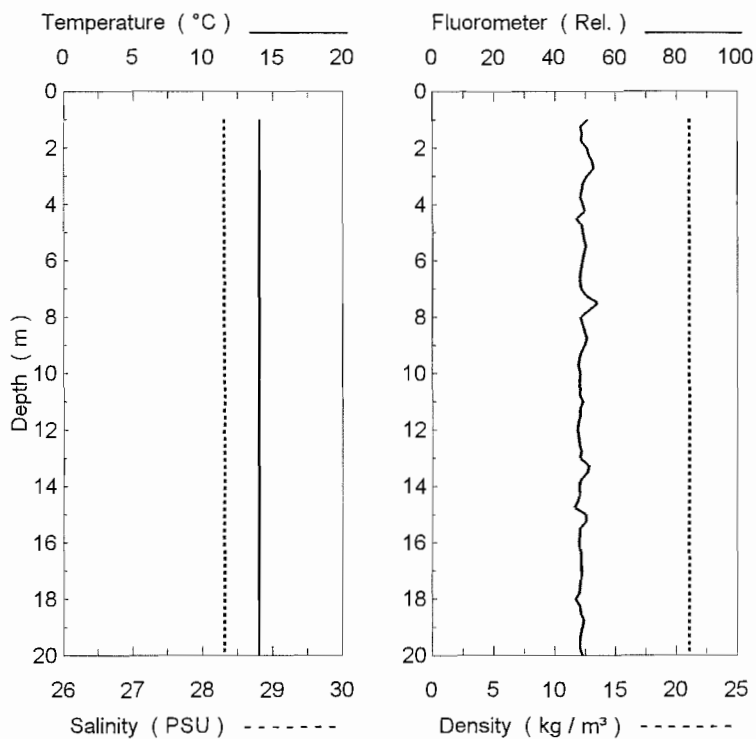
STATION 13



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.30	28.11	44	20.81
2	14.30	28.12	55	20.82
3	14.30	28.12	57	20.81
4	14.30	28.12	59	20.81
5	14.30	28.12	59	20.81
6	14.30	28.11	59	20.81
7	14.30	28.12	55	20.82
8	14.30	28.12	55	20.82
9	14.30	28.12	57	20.82
10	14.30	28.12	58	20.82
11	14.30	28.12	58	20.82
12	14.30	28.11	58	20.81
13	14.30	28.12	59	20.82
14	14.30	28.12	56	20.82
15	14.30	28.12	57	20.82
16	14.30	28.11	57	20.81
17	14.30	28.11	57	20.82
18	14.30	28.11	60	20.81
19	14.30	28.11	57	20.81
20	14.30	28.11	60	20.81

Survey 95-06

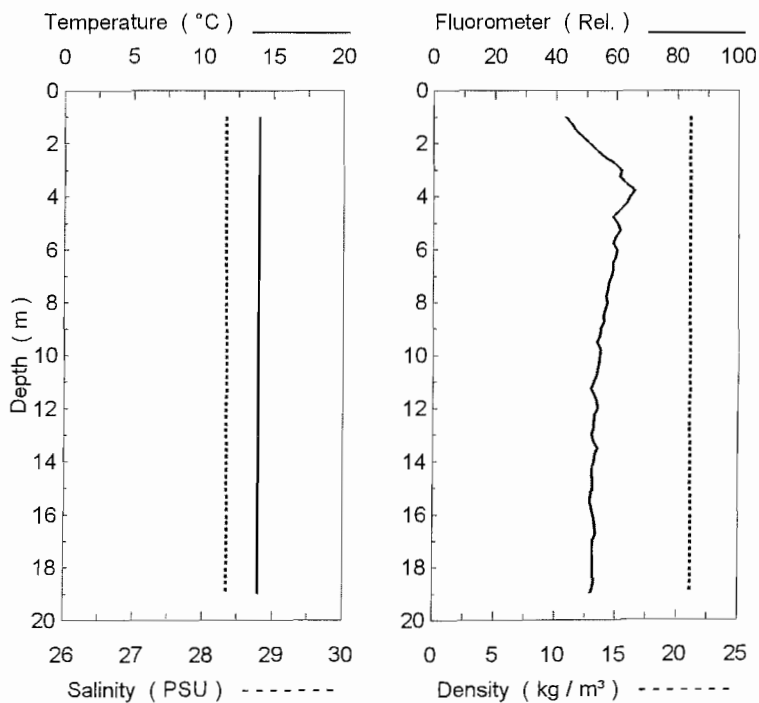
STATION 14



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	14.05	28.30	51	21.01
2	14.05	28.31	50	21.01
3	14.05	28.31	51	21.01
4	14.05	28.31	49	21.01
5	14.05	28.31	49	21.01
6	14.05	28.31	49	21.01
7	14.05	28.31	49	21.01
8	14.05	28.31	51	21.01
9	14.05	28.31	49	21.01
10	14.05	28.31	48	21.01
11	14.05	28.31	48	21.01
12	14.05	28.31	48	21.01
13	14.06	28.31	49	21.01
14	14.06	28.31	49	21.01
15	14.06	28.31	49	21.01
16	14.06	28.31	48	21.01
17	14.06	28.31	48	21.01
18	14.06	28.31	48	21.01
19	14.06	28.31	49	21.01
20	14.06	28.31	49	21.01

Survey 95-06

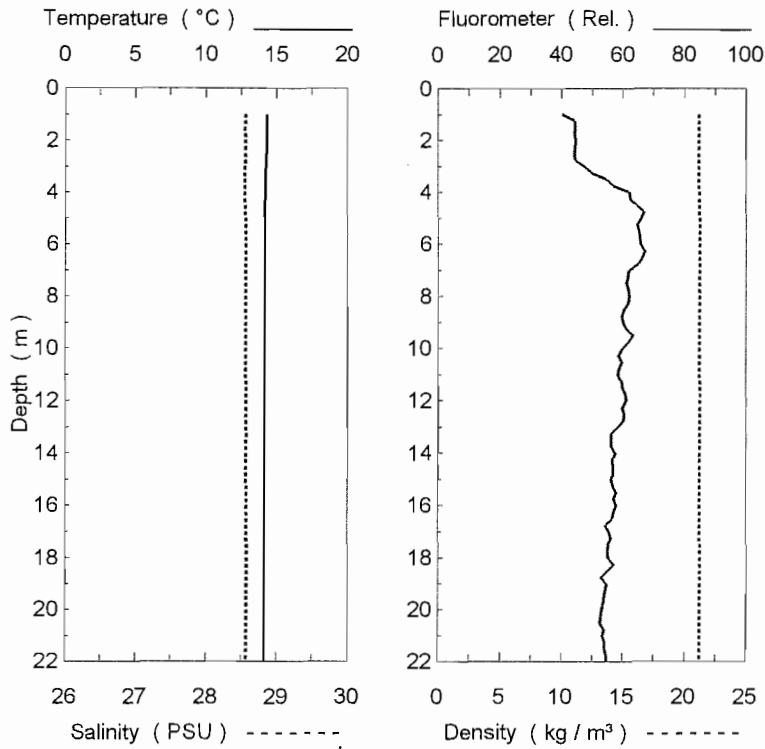
STATION 15



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	13.98	28.33	43	21.04
2	13.97	28.33	51	21.04
3	13.97	28.32	60	21.04
4	13.96	28.33	64	21.05
5	13.96	28.33	60	21.05
6	13.96	28.33	59	21.05
7	13.95	28.33	58	21.05
8	13.95	28.33	57	21.05
9	13.94	28.33	55	21.05
10	13.93	28.33	54	21.06
11	13.93	28.34	53	21.06
12	13.93	28.34	53	21.06
13	13.93	28.34	53	21.06
14	13.93	28.34	53	21.06
15	13.93	28.34	52	21.06
16	13.93	28.34	52	21.06
17	13.93	28.34	53	21.06
18	13.93	28.34	52	21.06
19	13.93	28.34	52	21.06

Survey 95-06

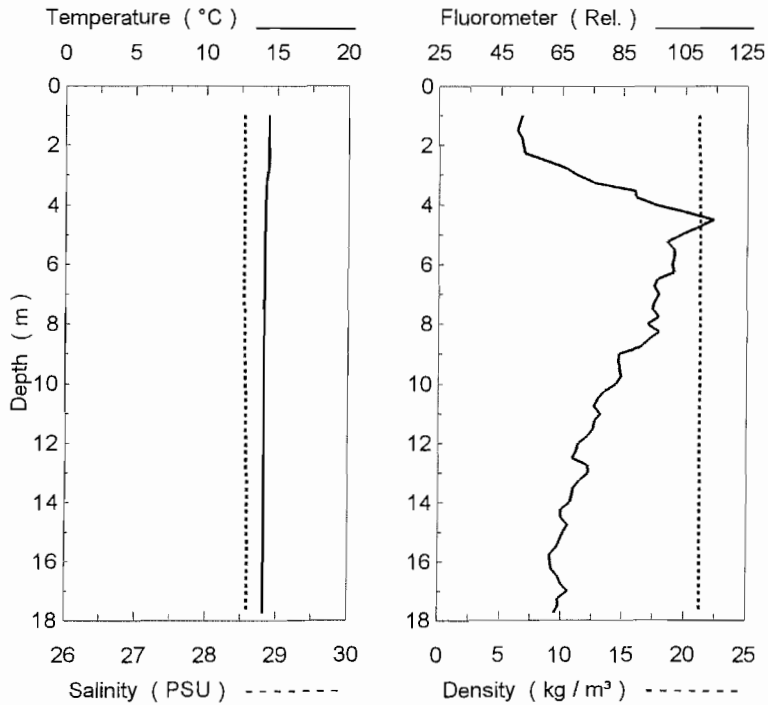
STATION 16



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.31	28.56	42	21.15
2	14.30	28.56	44	21.16
3	14.27	28.56	49	21.16
4	14.21	28.55	60	21.17
5	14.17	28.56	65	21.18
6	14.16	28.56	66	21.18
7	14.16	28.56	63	21.18
8	14.16	28.56	62	21.19
9	14.16	28.56	61	21.19
10	14.15	28.56	60	21.19
11	14.15	28.56	59	21.19
12	14.15	28.56	60	21.19
13	14.15	28.57	59	21.19
14	14.15	28.56	56	21.19
15	14.15	28.57	57	21.19
16	14.15	28.57	57	21.20
17	14.14	28.57	56	21.20
18	14.14	28.57	55	21.20
19	14.14	28.57	54	21.20
20	14.14	28.57	53	21.20
21	14.14	28.57	54	21.20
22	14.14	28.57	54	21.20

Survey 95-06

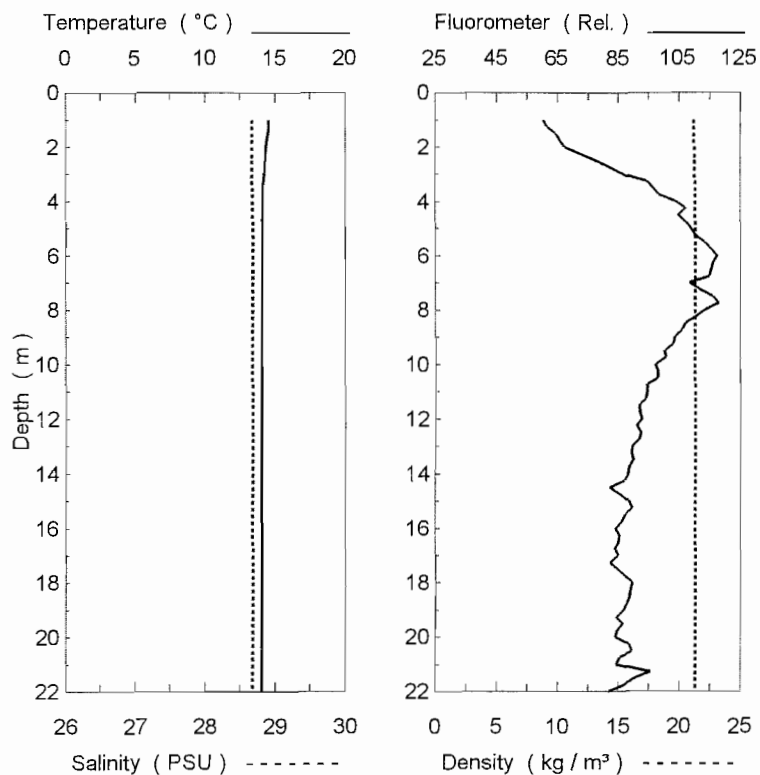
STATION 17



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.44	28.53	52	21.11
2	14.41	28.53	53	21.11
3	14.28	28.53	71	21.14
4	14.17	28.54	97	21.17
5	14.14	28.54	105	21.17
6	14.13	28.54	101	21.17
7	14.11	28.54	96	21.18
8	14.10	28.54	95	21.18
9	14.09	28.55	86	21.19
10	14.08	28.55	82	21.20
11	14.08	28.56	76	21.20
12	14.09	28.57	72	21.21
13	14.09	28.57	72	21.21
14	14.09	28.58	67	21.21
15	14.09	28.58	66	21.22
16	14.09	28.59	61	21.22
17	14.09	28.59	65	21.22
18	14.09	28.59	62	21.22

Survey 95-06

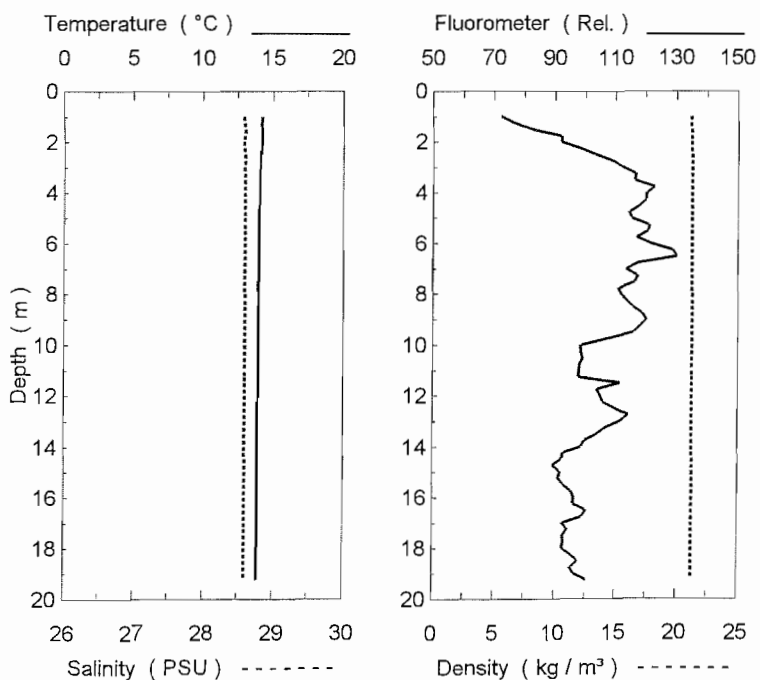
STATION 18



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.55	28.67	60	21.19
2	14.37	28.67	68	21.23
3	14.21	28.67	89	21.26
4	14.13	28.68	102	21.28
5	14.11	28.68	109	21.29
6	14.09	28.68	116	21.29
7	14.08	28.68	112	21.29
8	14.07	28.68	113	21.29
9	14.07	28.68	104	21.29
10	14.07	28.68	99	21.29
11	14.06	28.68	94	21.30
12	14.06	28.68	92	21.30
13	14.06	28.68	91	21.30
14	14.06	28.68	87	21.30
15	14.06	28.68	88	21.30
16	14.06	28.68	85	21.30
17	14.06	28.68	84	21.30
18	14.06	28.68	88	21.30
19	14.05	28.68	87	21.30
20	14.05	28.68	86	21.30
21	14.05	28.68	88	21.30
22	14.06	28.68	85	21.30

Survey 95-06

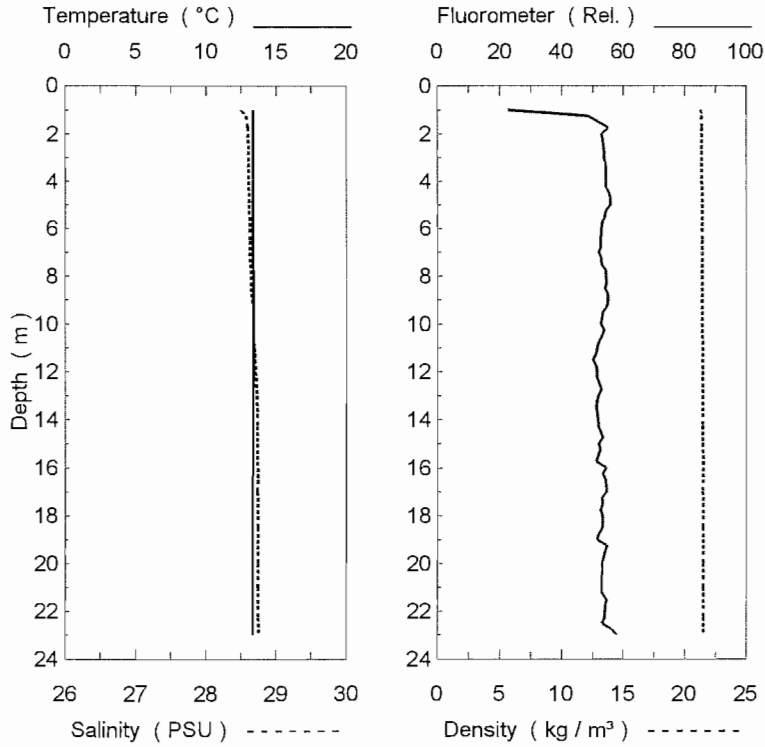
STATION 19



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	14.22	28.59	72	21.20
2	14.15	28.59	94	21.21
3	14.07	28.59	113	21.23
4	14.03	28.60	120	21.24
5	14.01	28.60	117	21.24
6	14.00	28.60	122	21.24
7	13.97	28.60	117	21.25
8	13.97	28.60	113	21.25
9	13.94	28.60	118	21.26
10	13.93	28.60	103	21.26
11	13.93	28.60	100	21.26
12	13.93	28.60	106	21.26
13	13.92	28.60	111	21.26
14	13.92	28.60	97	21.26
15	13.92	28.60	90	21.26
16	13.92	28.60	96	21.26
17	13.92	28.60	95	21.26
18	13.92	28.60	94	21.26
19	13.92	28.60	98	21.26

Survey 95-06

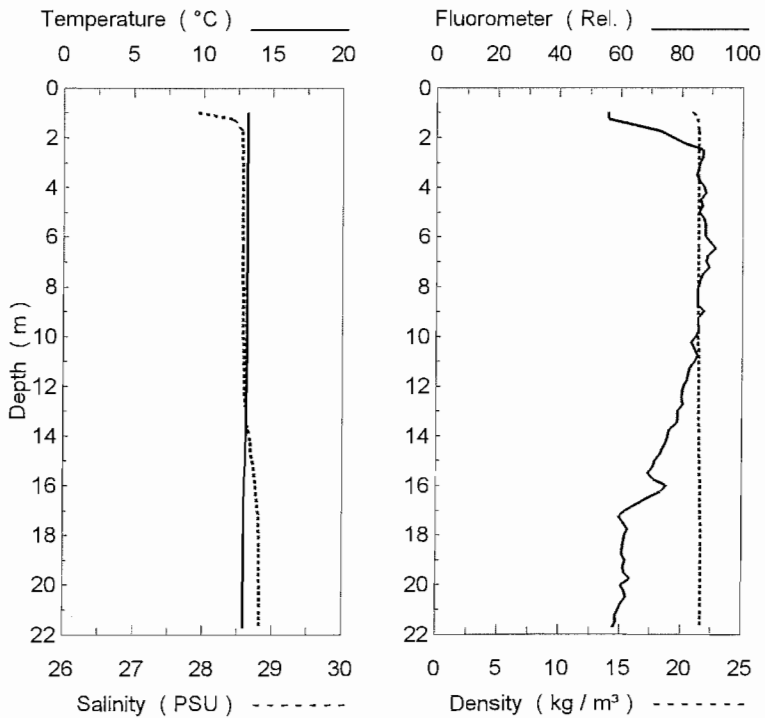
STATION 21



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	13.37	28.36	23	21.29
2	13.37	28.60	54	21.37
3	13.37	28.61	54	21.38
4	13.37	28.61	54	21.38
5	13.37	28.62	55	21.38
6	13.38	28.62	53	21.39
7	13.37	28.63	53	21.39
8	13.39	28.64	54	21.40
9	13.41	28.66	55	21.41
10	13.41	28.68	53	21.42
11	13.41	28.69	51	21.43
12	13.39	28.71	51	21.45
13	13.37	28.73	52	21.47
14	13.36	28.73	52	21.47
15	13.36	28.74	53	21.48
16	13.36	28.74	53	21.48
17	13.36	28.74	54	21.48
18	13.35	28.74	53	21.49
19	13.35	28.75	53	21.49
20	13.35	28.75	54	21.49
21	13.35	28.75	53	21.49
22	13.35	28.75	54	21.49
23	13.35	28.75	57	21.49

Survey 95-06

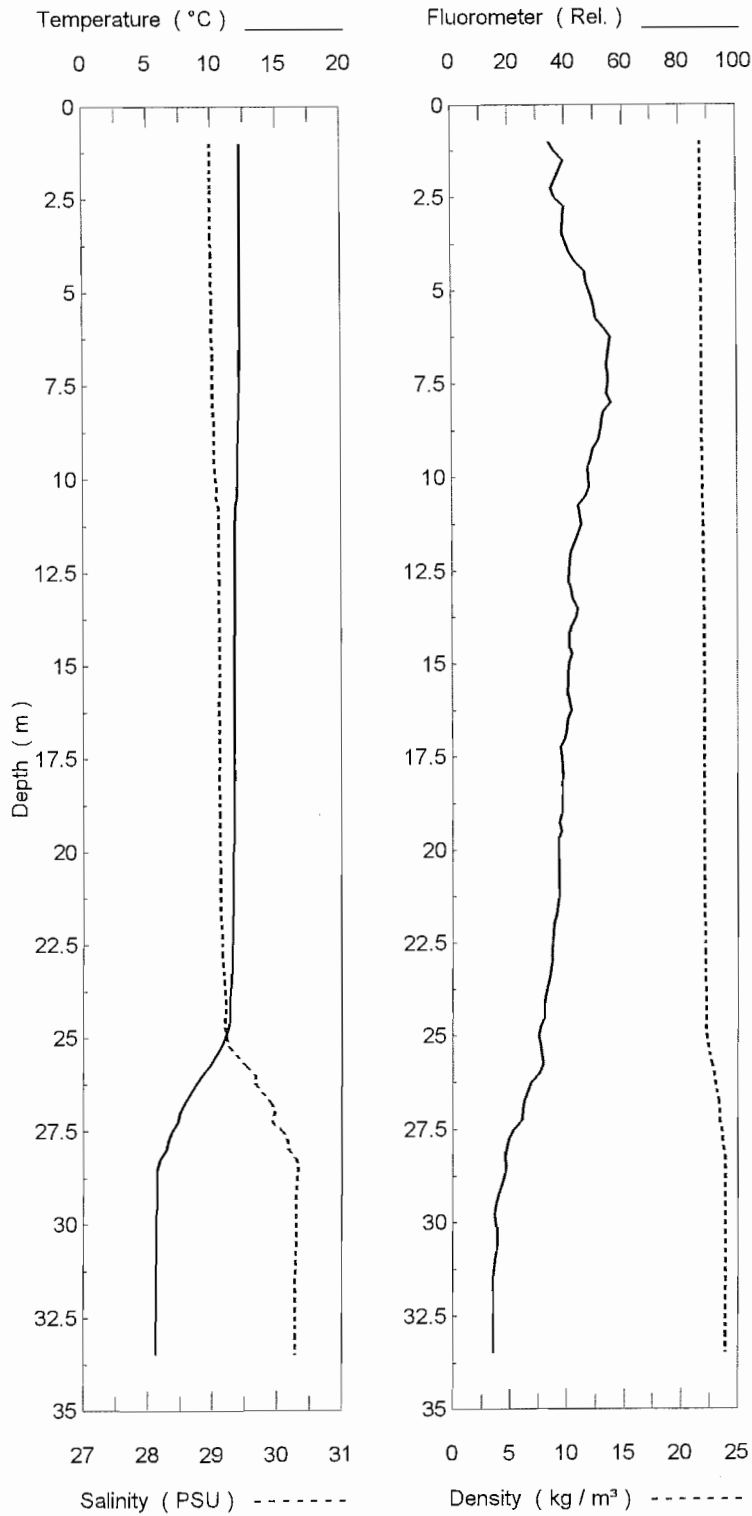
STATION 22



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg / m ³)
1	13.16	27.91	56	20.63
2	13.15	28.45	72	21.30
3	13.15	28.56	86	21.38
4	13.15	28.57	87	21.39
5	13.15	28.57	87	21.39
6	13.15	28.57	89	21.39
7	13.15	28.57	89	21.39
8	13.14	28.57	86	21.39
9	13.14	28.58	86	21.40
10	13.14	28.58	84	21.40
11	13.14	28.59	84	21.41
12	13.13	28.60	81	21.41
13	13.12	28.61	79	21.43
14	13.08	28.67	75	21.48
15	13.05	28.71	72	21.52
16	13.01	28.76	72	21.56
17	12.98	28.79	63	21.60
18	12.96	28.81	62	21.61
19	12.95	28.82	61	21.62
20	12.95	28.82	62	21.62
21	12.94	28.82	60	21.62
22	12.94	28.82	57	21.62

Survey 95-06

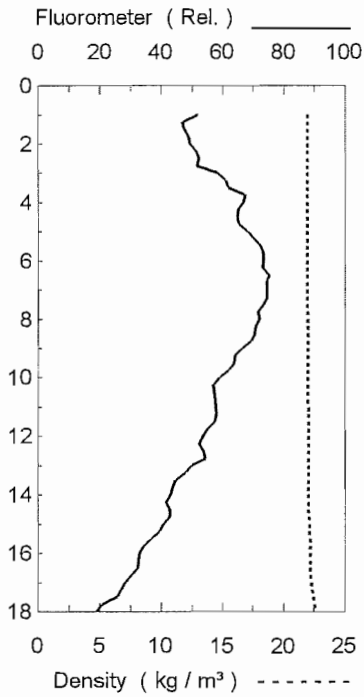
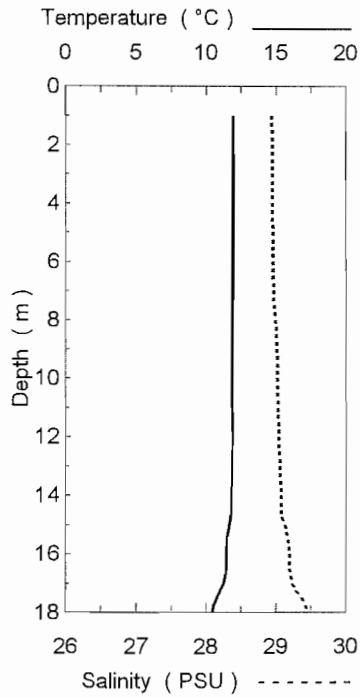
STATION 23



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.23	28.99	35	21.89
2	12.23	28.99	35	21.89
3	12.23	28.99	39	21.89
4	12.23	28.99	42	21.89
5	12.22	29.00	49	21.89
6	12.20	29.00	53	21.90
7	12.16	29.02	54	21.92
8	12.12	29.03	54	21.93
9	12.08	29.04	51	21.95
10	12.00	29.06	48	21.98
11	11.81	29.11	44	22.05
12	11.79	29.11	42	22.06
13	11.77	29.11	42	22.06
14	11.77	29.11	42	22.06
15	11.76	29.11	41	22.06
16	11.76	29.11	41	22.07
17	11.75	29.11	39	22.07
18	11.75	29.11	39	22.06
19	11.72	29.11	38	22.07
20	11.67	29.12	37	22.09
21	11.63	29.13	37	22.10
22	11.58	29.15	36	22.12
23	11.52	29.17	35	22.15
24	11.39	29.20	33	22.20
25	10.96	29.23	31	22.29
26	9.21	29.61	29	22.87
27	7.59	29.92	24	23.34
28	6.33	30.21	19	23.73
29	5.71	30.31	17	23.88
30	5.64	30.30	15	23.88
31	5.63	30.29	15	23.87
32	5.63	30.28	14	23.87
33	5.60	30.27	14	23.87
34	5.59	30.28	15	23.87

Survey 95-06

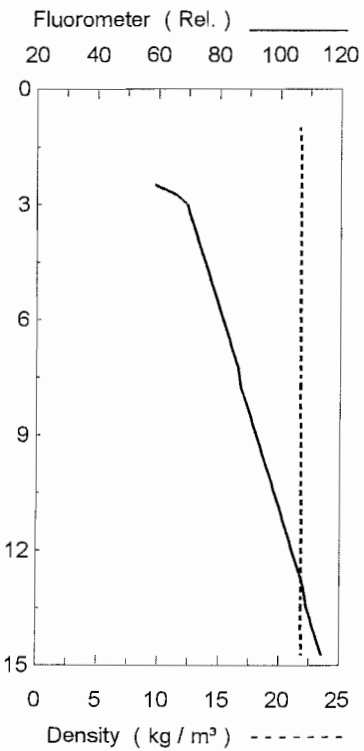
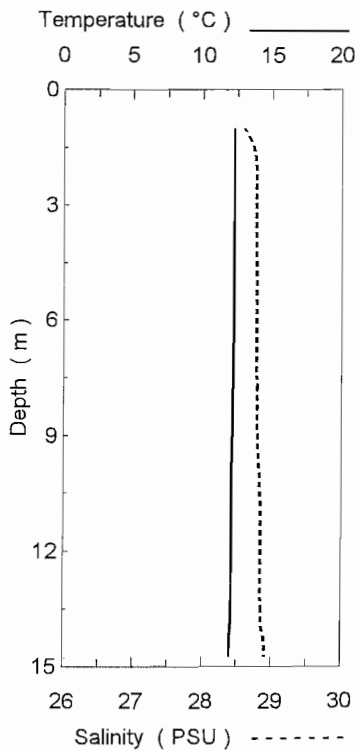
STATION 24



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	11.97	28.94	52	21.89
2	11.97	28.94	50	21.90
3	11.97	28.94	57	21.90
4	11.96	28.95	65	21.90
5	11.95	28.95	68	21.91
6	11.95	28.96	73	21.91
7	11.94	28.96	74	21.92
8	11.91	28.99	71	21.94
9	11.87	29.01	67	21.97
10	11.88	29.02	59	21.97
11	11.88	29.03	58	21.98
12	11.89	29.04	54	21.98
13	11.86	29.05	49	22.00
14	11.82	29.08	42	22.02
15	11.67	29.12	41	22.09
16	11.47	29.19	33	22.18
17	11.24	29.25	29	22.26
18	10.43	29.46	19	22.56

Survey 95-06

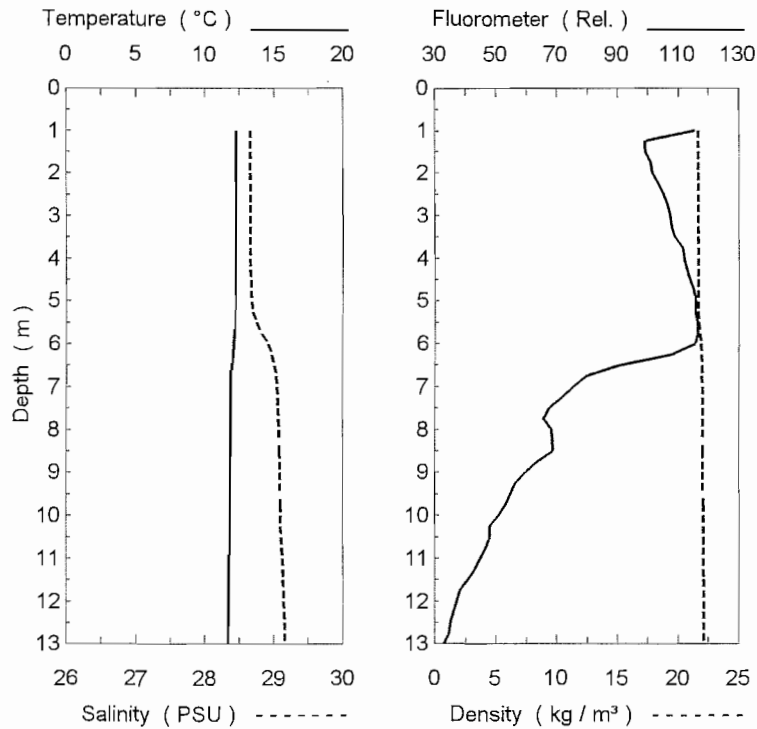
STATION 25



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.24	28.63		21.60
2	12.24	28.76		21.70
3	12.24	28.77	66	21.71
4	12.24	28.77	73	21.71
5	12.24	28.77	77	21.72
6	12.23	28.78	81	21.72
7	12.23	28.78	85	21.72
8	12.22	28.78	88	21.73
9	12.19	28.79	92	21.74
10	12.13	28.82	96	21.77
11	12.11	28.84	100	21.79
12	12.11	28.85	104	21.80
13	12.10	28.85	107	21.80
14	12.07	28.87	111	21.82
15	12.00	28.91	114	21.86

Survey 95-06

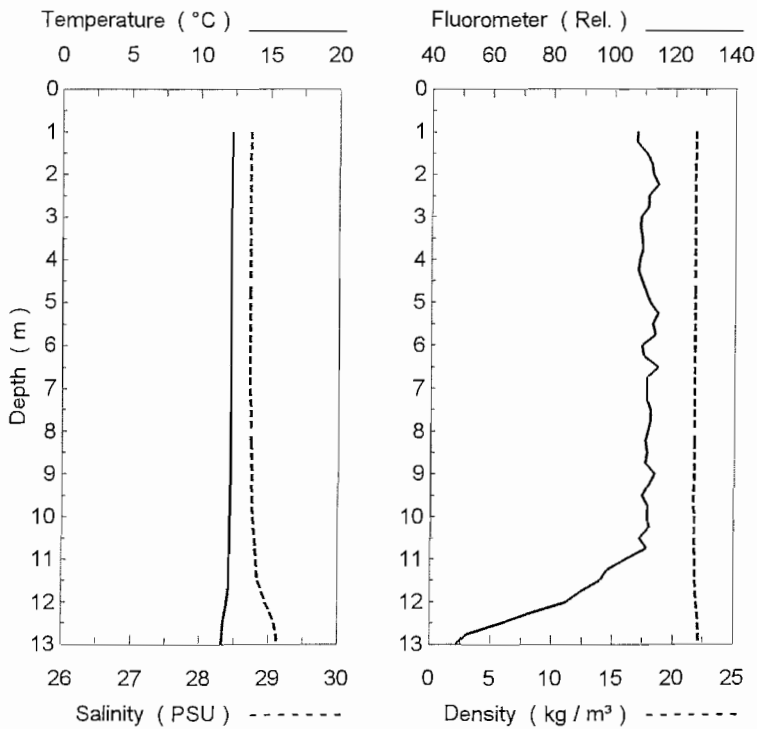
STATION 26



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.27	28.66	115	21.62
2	12.27	28.66	102	21.62
3	12.27	28.66	107	21.62
4	12.27	28.66	112	21.62
5	12.26	28.68	115	21.64
6	12.09	28.90	110	21.84
7	11.91	29.05	75	21.99
8	11.86	29.07	66	22.01
9	11.85	29.08	60	22.03
10	11.83	29.09	51	22.04
11	11.78	29.12	45	22.07
12	11.75	29.14	37	22.09
13	11.72	29.16	34	22.11

Survey 95-06

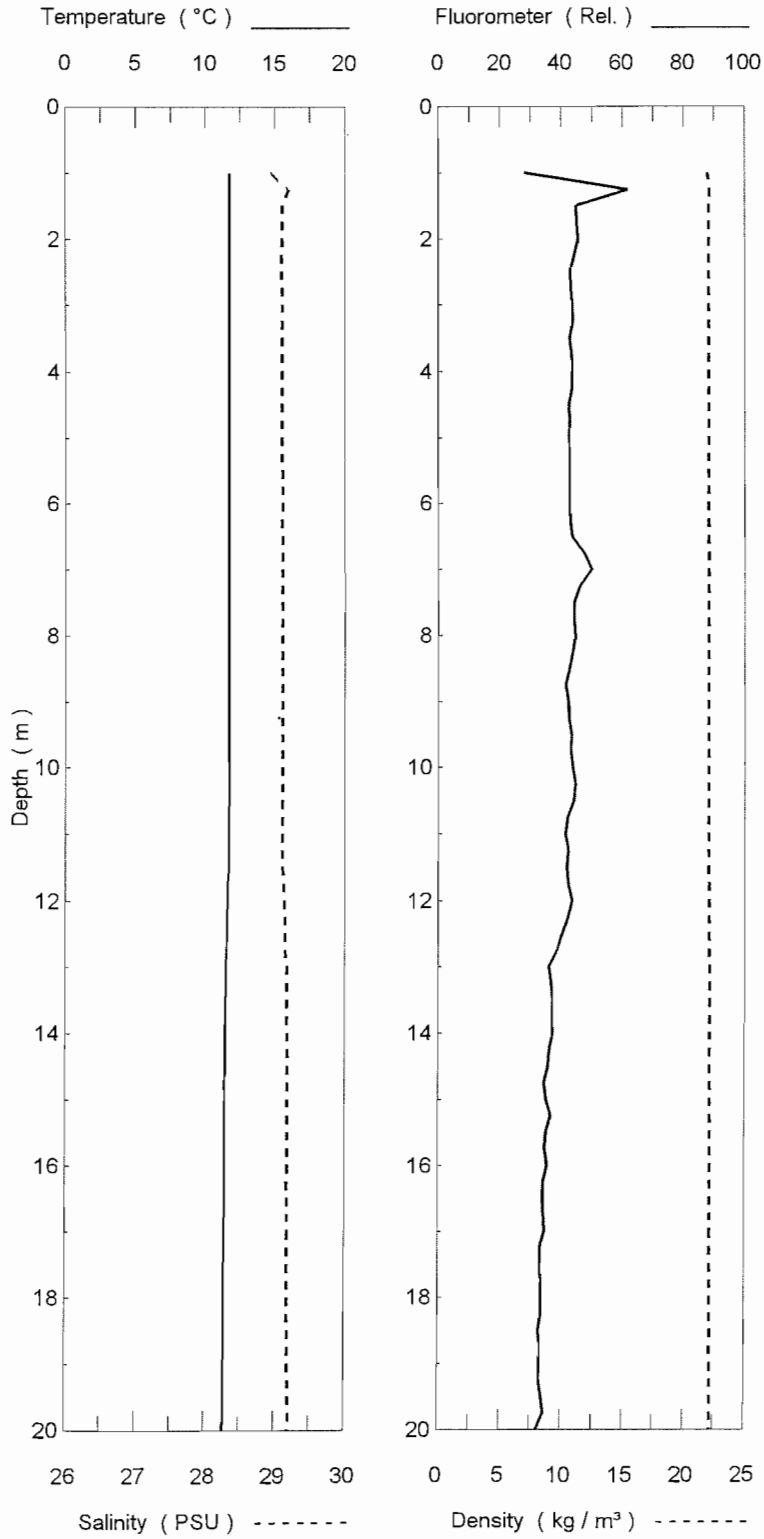
STATION 27



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.23	28.71	107	21.65
2	12.23	28.71	111	21.67
3	12.24	28.72	110	21.67
4	12.23	28.72	109	21.67
5	12.23	28.72	112	21.67
6	12.23	28.72	112	21.67
7	12.23	28.72	112	21.67
8	12.23	28.74	112	21.69
9	12.24	28.75	112	21.70
10	12.22	28.77	111	21.72
11	12.16	28.82	103	21.76
12	11.99	28.96	82	21.91
13	11.64	29.13	48	22.10

Survey 95-06

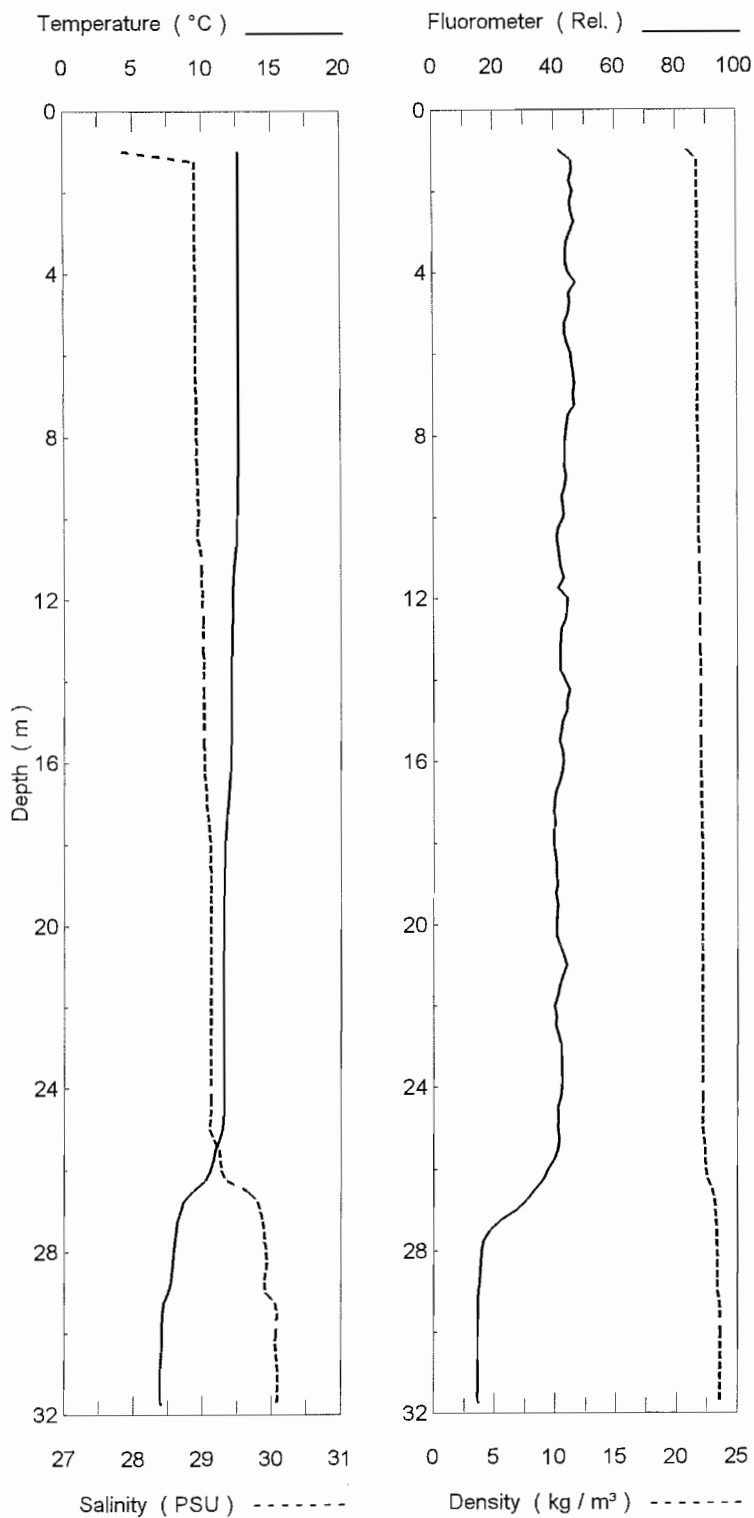
STATION 28



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	11.78	28.92	28	21.91
2	11.77	29.10	45	22.05
3	11.76	29.10	43	22.06
4	11.77	29.10	43	22.06
5	11.76	29.11	43	22.06
6	11.76	29.11	43	22.06
7	11.76	29.11	47	22.06
8	11.76	29.11	44	22.06
9	11.76	29.11	42	22.06
10	11.76	29.11	44	22.06
11	11.75	29.11	42	22.07
12	11.66	29.14	42	22.10
13	11.55	29.16	37	22.14
14	11.48	29.18	37	22.17
15	11.47	29.19	36	22.17
16	11.47	29.18	35	22.17
17	11.46	29.19	34	22.18
18	11.44	29.19	34	22.18
19	11.42	29.20	33	22.19
20	11.35	29.22	33	22.22

Survey 95-06

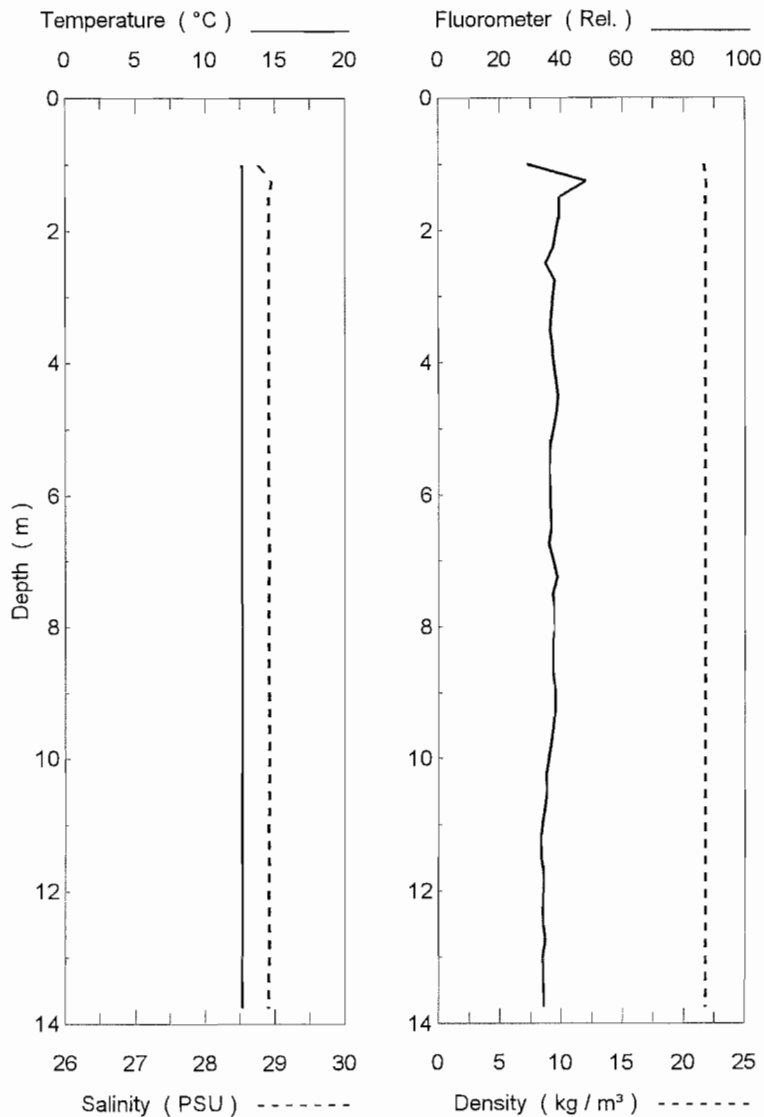
STATION 29



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.63	27.86	42	20.93
2	12.63	28.96	46	21.79
3	12.63	28.90	45	21.74
4	12.63	28.91	45	21.75
5	12.63	28.91	44	21.75
6	12.63	28.91	45	21.75
7	12.62	28.92	47	21.76
8	12.60	28.92	44	21.76
9	12.57	28.93	43	21.78
10	12.54	28.94	42	21.79
11	12.35	28.98	42	21.85
12	12.20	29.00	43	21.90
13	12.14	29.01	42	21.92
14	12.10	29.02	43	21.94
15	12.09	29.02	43	21.94
16	12.04	29.03	42	21.95
17	11.85	29.07	40	22.01
18	11.64	29.11	40	22.08
19	11.57	29.12	40	22.11
20	11.56	29.12	41	22.11
21	11.55	29.12	43	22.11
22	11.55	29.12	40	22.11
23	11.54	29.12	42	22.11
24	11.53	29.13	42	22.12
25	11.40	29.13	41	22.14
26	10.41	29.34	38	22.47
27	8.49	29.83	26	23.15
28	7.92	29.92	15	23.30
29	7.47	29.95	15	23.38
30	7.07	30.05	14	23.52
31	6.94	30.08	15	23.56
32	6.96	30.08	14	23.55

Survey 95-06

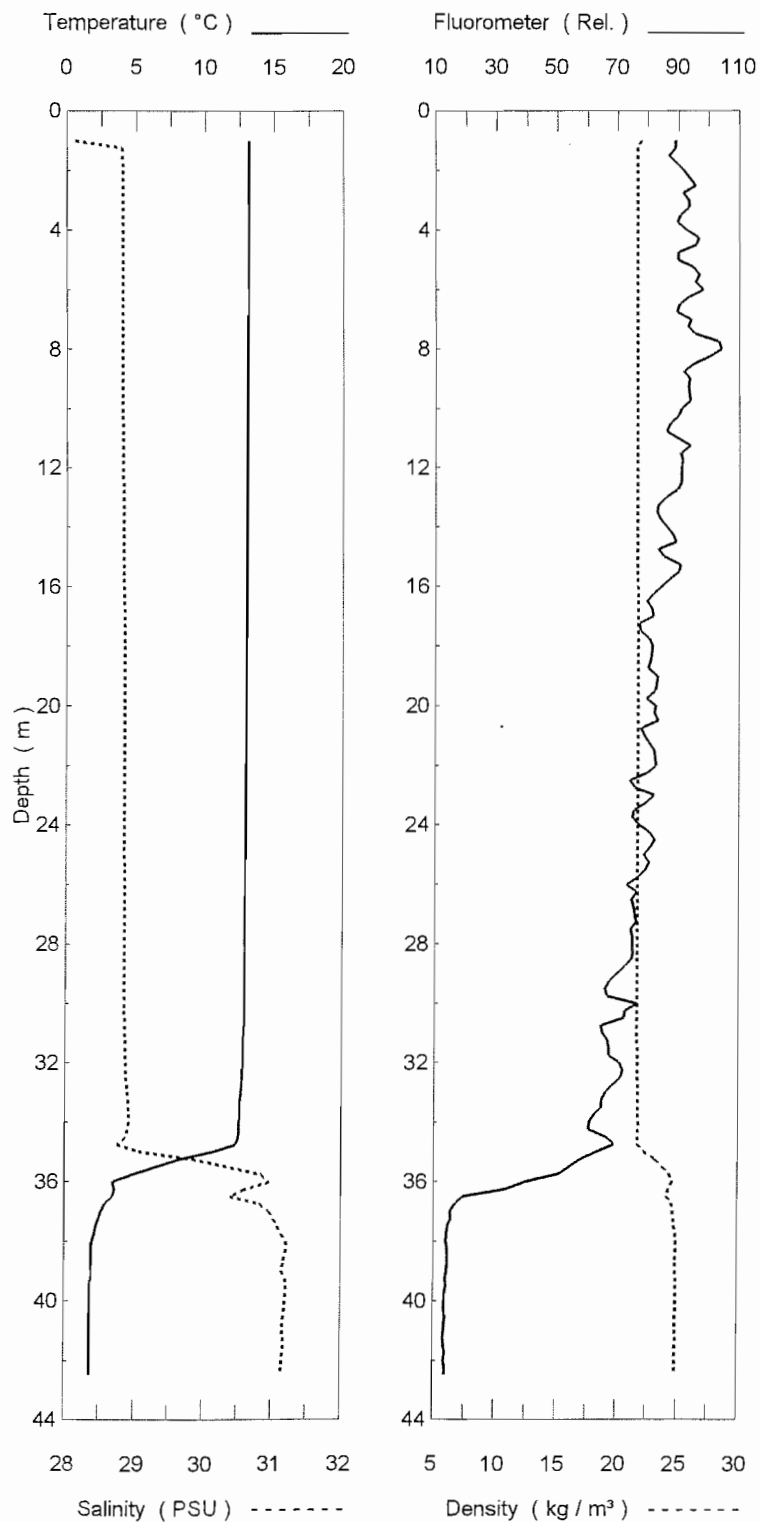
STATION 30



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	12.66	28.76	29	21.63
2	12.66	28.89	37	21.73
3	12.65	28.91	37	21.75
4	12.64	28.91	37	21.75
5	12.64	28.91	38	21.75
6	12.64	28.91	37	21.75
7	12.64	28.91	37	21.75
8	12.64	28.91	38	21.75
9	12.64	28.91	38	21.75
10	12.64	28.91	36	21.75
11	12.64	28.91	34	21.75
12	12.64	28.91	34	21.75
13	12.64	28.91	34	21.75
14	12.64	28.91	34	21.75

Survey 95-06

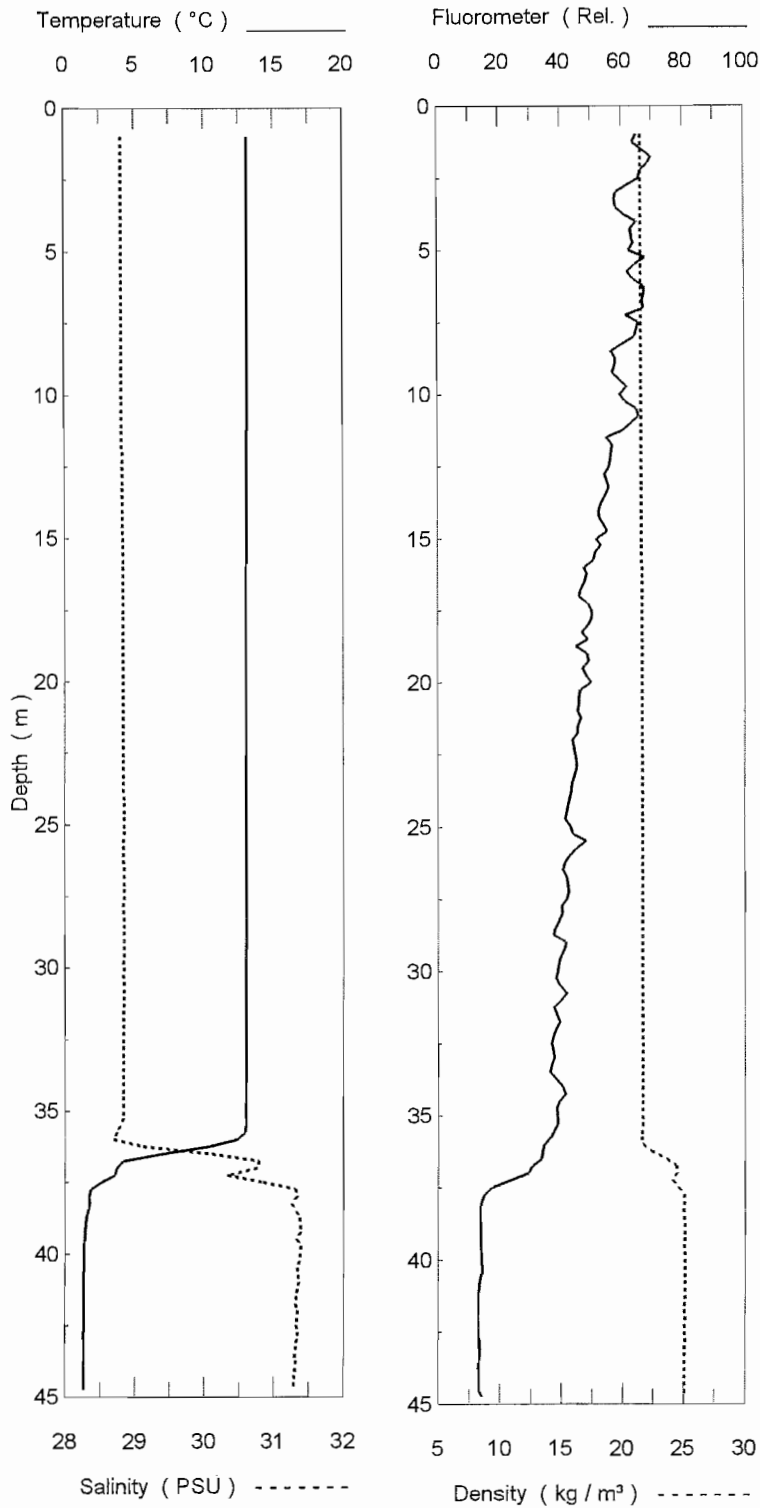
STATION 31



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.16	28.12	89	21.89
2	13.15	28.68	92	21.57
3	13.14	28.80	93	21.57
4	13.14	28.80	94	21.57
5	13.14	28.80	92	21.57
6	13.14	28.80	95	21.57
7	13.13	28.80	90	21.57
8	13.13	28.80	100	21.58
9	13.12	28.80	92	21.58
10	13.12	28.80	91	21.58
11	13.11	28.81	89	21.58
12	13.09	28.81	91	21.59
13	13.08	28.82	86	21.59
14	13.07	28.82	86	21.60
15	13.07	28.82	87	21.60
16	13.04	28.83	85	21.61
17	13.03	28.83	80	21.62
18	13.02	28.84	80	21.62
19	13.02	28.84	82	21.62
20	13.01	28.84	81	21.62
21	13.01	28.84	80	21.62
22	13.01	28.84	81	21.62
23	13.01	28.84	78	21.62
24	13.00	28.84	77	21.63
25	13.00	28.84	79	21.63
26	12.99	28.84	75	21.63
27	12.98	28.85	76	21.63
28	12.98	28.85	75	21.64
29	12.98	28.85	70	21.64
30	12.97	28.85	71	21.64
31	12.92	28.86	67	21.66
32	12.87	28.87	70	21.68
33	12.75	28.90	67	21.72
34	12.61	28.91	63	21.75
35	10.77	29.16	65	22.26
36	4.44	30.55	39	24.18
37	2.67	30.91	16	24.65
38	2.03	31.18	15	24.91
39	1.91	31.17	14	24.91
40	1.83	31.20	14	24.94
41	1.84	31.17	14	24.91
42	1.82	31.16	14	24.91

Survey 95-06

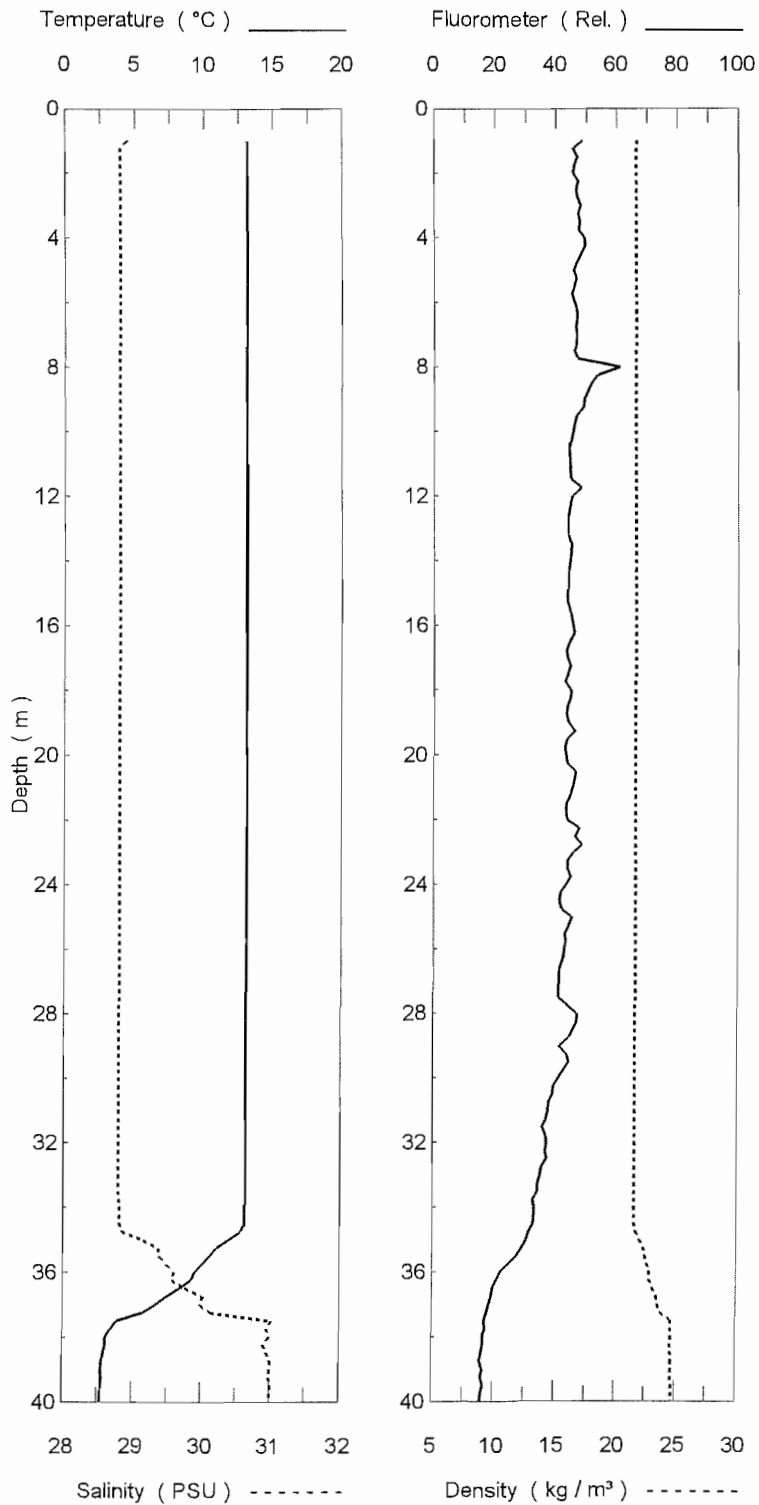
STATION 32



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.11	28.81	55	21.58
2	13.11	28.83	68	21.60
3	13.11	28.81	60	21.58
4	13.11	28.81	62	21.59
5	13.11	28.81	64	21.59
6	13.11	28.82	65	21.59
7	13.11	28.82	66	21.59
8	13.11	28.82	63	21.59
9	13.11	28.82	58	21.59
10	13.11	28.82	61	21.59
11	13.11	28.82	64	21.59
12	13.10	28.82	56	21.59
13	13.09	28.82	55	21.60
14	13.07	28.83	53	21.60
15	13.06	28.83	54	21.61
16	13.05	28.83	49	21.61
17	13.05	28.83	48	21.61
18	13.04	28.83	50	21.62
19	13.04	28.84	48	21.62
20	13.04	28.84	48	21.62
21	13.03	28.84	46	21.62
22	13.03	28.84	45	21.62
23	13.03	28.84	45	21.62
24	13.03	28.84	43	21.62
25	13.03	28.84	44	21.62
26	13.03	28.84	43	21.62
27	13.02	28.84	42	21.62
28	13.02	28.84	40	21.62
29	13.02	28.84	40	21.62
30	13.02	28.84	39	21.62
31	13.02	28.84	39	21.62
32	13.02	28.84	38	21.62
33	13.02	28.84	37	21.62
34	13.02	28.84	39	21.62
35	13.02	28.83	39	21.62
36	11.49	28.98	35	21.99
37	4.50	30.43	26	24.08
38	1.85	31.25	14	24.98
39	1.47	31.37	14	25.10
40	1.35	31.37	14	25.11
41	1.33	31.35	13	25.09
42	1.34	31.32	13	25.07
43	1.31	31.32	13	25.07
44	1.31	31.30	13	25.05
45	1.34	31.29	14	25.04

Survey 95-06

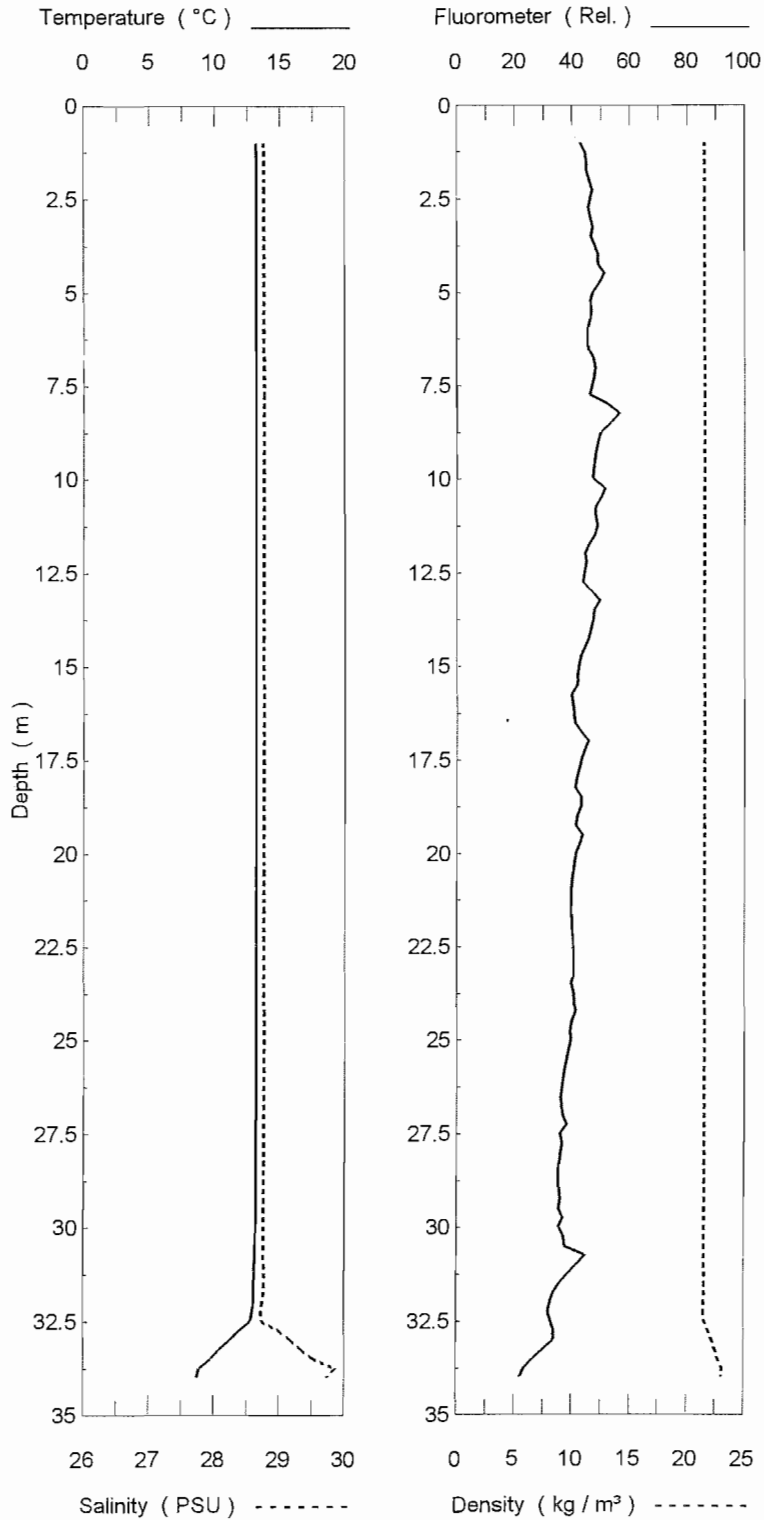
STATION 33



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.19	28.89	49	21.63
2	13.18	28.79	46	21.54
3	13.18	28.79	47	21.55
4	13.18	28.79	49	21.56
5	13.18	28.79	46	21.56
6	13.18	28.79	46	21.56
7	13.18	28.79	47	21.56
8	13.18	28.79	51	21.56
9	13.18	28.79	49	21.56
10	13.18	28.79	45	21.56
11	13.18	28.79	45	21.56
12	13.19	28.79	45	21.55
13	13.18	28.79	44	21.56
14	13.18	28.79	44	21.56
15	13.18	28.79	44	21.56
16	13.18	28.79	45	21.56
17	13.18	28.79	44	21.56
18	13.18	28.79	44	21.56
19	13.18	28.79	45	21.56
20	13.18	28.79	44	21.56
21	13.18	28.79	45	21.56
22	13.18	28.79	44	21.56
23	13.18	28.79	46	21.56
24	13.18	28.79	43	21.56
25	13.18	28.79	43	21.56
26	13.18	28.79	43	21.56
27	13.18	28.79	41	21.56
28	13.18	28.79	45	21.56
29	13.18	28.79	43	21.56
30	13.18	28.79	41	21.56
31	13.17	28.79	38	21.56
32	13.17	28.79	37	21.56
33	13.16	28.79	36	21.56
34	13.12	28.81	33	21.58
35	12.19	29.05	31	21.93
36	9.64	29.53	23	22.74
37	6.35	30.18	19	23.69
38	3.11	30.99	17	24.68
39	2.83	30.99	16	24.70
40	2.73	30.99	16	24.71

Survey 95-06

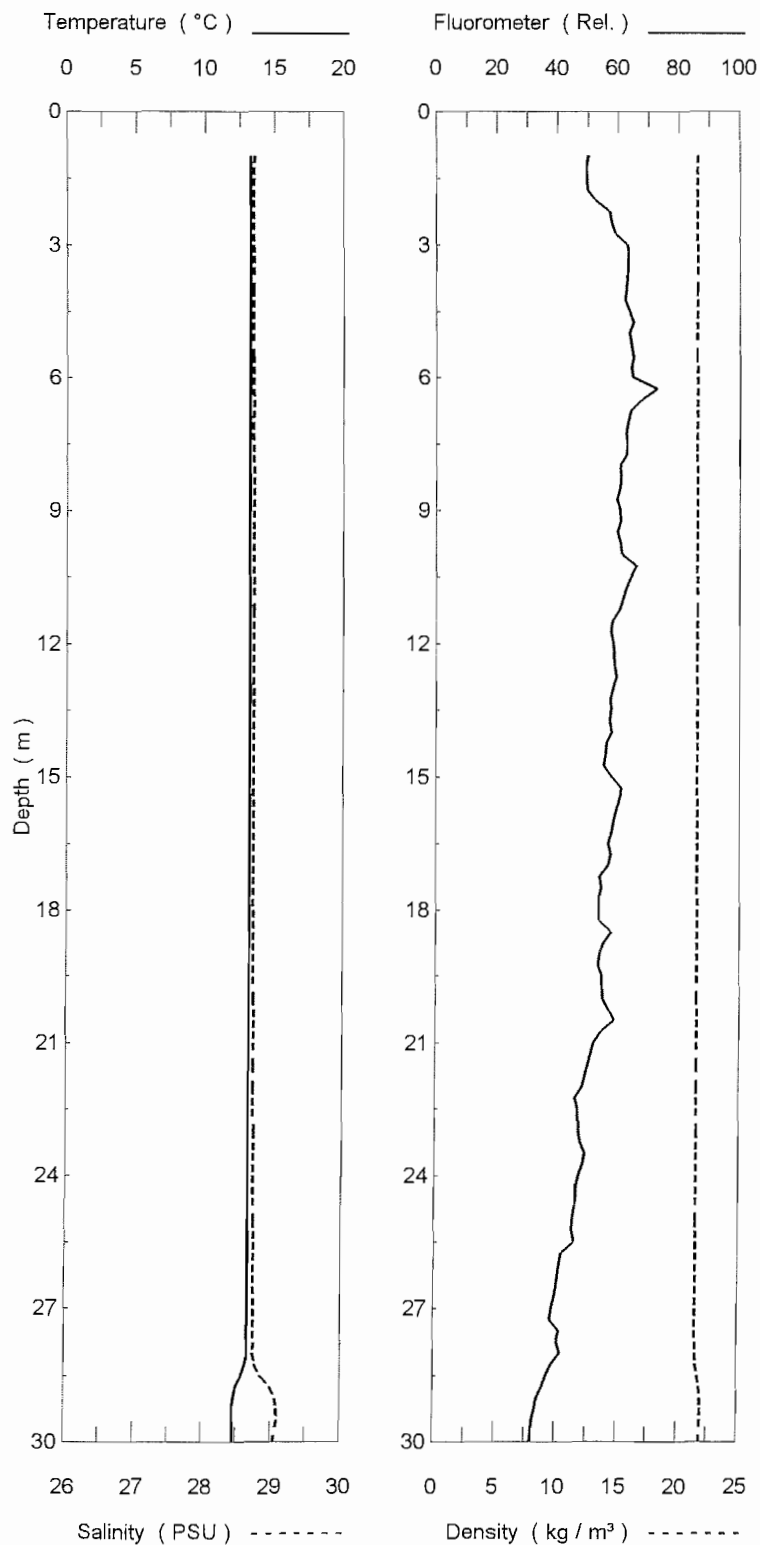
STATION 34



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m ³)
1	13.23	28.75	43	21.52
2	13.22	28.76	46	21.52
3	13.23	28.76	46	21.52
4	13.23	28.76	48	21.52
5	13.23	28.76	49	21.52
6	13.23	28.76	46	21.52
7	13.23	28.76	47	21.52
8	13.23	28.76	52	21.52
9	13.23	28.76	49	21.52
10	13.23	28.76	49	21.52
11	13.23	28.76	48	21.52
12	13.22	28.76	45	21.52
13	13.22	28.76	47	21.52
14	13.22	28.76	46	21.52
15	13.21	28.76	43	21.53
16	13.21	28.76	40	21.52
17	13.22	28.76	44	21.52
18	13.22	28.76	42	21.52
19	13.22	28.76	42	21.52
20	13.21	28.76	42	21.52
21	13.21	28.76	40	21.52
22	13.21	28.76	40	21.52
23	13.21	28.76	40	21.52
24	13.21	28.76	40	21.52
25	13.21	28.76	39	21.52
26	13.20	28.76	37	21.53
27	13.20	28.76	37	21.53
28	13.20	28.76	36	21.53
29	13.20	28.76	35	21.53
30	13.19	28.76	36	21.53
31	13.12	28.77	39	21.55
32	13.03	28.76	33	21.56
33	11.41	29.11	33	22.12
34	8.48	29.84	21	23.16

Survey 95-06

STATION 35



Depth (m)	Temp. (°C)	Sal. (PSU)	Fluor. (Rel.)	Density (kg/m³)
1	13.27	28.71	50	21.47
2	13.26	28.70	53	21.46
3	13.26	28.70	62	21.47
4	13.26	28.70	62	21.47
5	13.26	28.70	65	21.47
6	13.26	28.70	67	21.47
7	13.27	28.70	64	21.47
8	13.27	28.70	62	21.47
9	13.27	28.70	60	21.47
10	13.26	28.70	62	21.47
11	13.26	28.70	61	21.47
12	13.26	28.70	58	21.47
13	13.26	28.71	58	21.47
14	13.26	28.70	57	21.47
15	13.26	28.70	58	21.47
16	13.26	28.71	59	21.47
17	13.26	28.71	56	21.48
18	13.26	28.71	55	21.47
19	13.26	28.71	55	21.48
20	13.26	28.71	56	21.48
21	13.26	28.71	53	21.48
22	13.26	28.72	48	21.48
23	13.26	28.72	48	21.48
24	13.26	28.72	48	21.49
25	13.26	28.73	46	21.49
26	13.26	28.74	41	21.50
27	13.26	28.74	40	21.50
28	13.16	28.76	40	21.53
29	12.35	29.03	34	21.90
30	12.19	29.08	32	21.97

Appendix 5.7 Minimum, maximum and average of temperature ($^{\circ}\text{C}$), salinity (PSU), density (kg/m^3) and fluorescence (relative) of the 1995 CTD profiles by station.

Survey	Station	Min. Temp. ($^{\circ}\text{C}$)	Max. Temp. ($^{\circ}\text{C}$)	Avg. Temp. ($^{\circ}\text{C}$)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg/m^3)	Max. Dens. (kg/m^3)	Avg. Dens. (kg/m^3)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
Cardigan, P.E.I.													
	01	8.79	8.98	8.88	28.96	29.01	28.99	22.42	22.44	22.43	117	173	159
	02	8.17	8.19	8.18	28.10	28.57	28.50	21.84	22.21	22.15	201	219	212
	03	7.86	8.58	8.12	28.34	28.83	28.50	22.07	22.35	22.16	210	259	235
	04	6.50	8.24	7.89	27.57	28.58	28.34	21.63	22.21	22.06	124	296	244
	05	7.18	7.99	7.75	27.08	27.79	27.56	21.16	21.63	21.47	91	313	230
Cardigan, P.E.I.	Average:	7.70	8.40	8.17	28.01	28.56	22.05	21.82	22.17	22.05	148	252	216

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
Survey 95-01													
	01	0.95	12.83	4.65	20.16	28.56	25.99	14.89	22.88	20.49	23	54	37
	02	2.71	12.68	6.66	20.82	27.55	24.61	15.49	21.96	19.18	28	84	55
	03	3.01	12.29	7.55	21.54	27.56	24.38	16.14	21.96	18.92	41	62	49
	04	3.32	10.17	6.90	25.49	28.83	27.06	19.51	22.92	21.14	19	49	30
	05	1.02	10.49	5.09	25.34	29.81	28.06	19.36	23.88	22.10	12	57	25
	06	-0.80	10.40	3.78	25.23	30.58	28.75	19.28	24.57	22.76	8	24	15
	07	-0.65	10.73	3.73	25.40	30.58	28.71	19.36	24.56	22.71	8	39	17
	08	-1.03	10.94	3.37	26.03	30.74	28.89	19.82	24.70	22.87	9	27	14
	09	0.25	10.89	5.40	26.23	30.08	28.37	20.03	24.12	22.30	9	34	19
	10	2.11	11.68	5.56	24.23	29.25	27.55	18.30	23.36	21.63	21	72	35
	11	6.46	11.92	8.02	21.76	27.77	26.11	16.30	21.79	20.26	40	54	46
	12	1.74	10.16	5.66	26.45	29.42	27.99	20.25	23.52	21.97	22	36	28
	13	0.75	9.95	5.20	27.32	29.89	28.48	21.02	23.95	22.40	11	93	30
	14	0.91	10.04	4.62	25.72	29.71	28.41	19.76	23.80	22.39	17	478	56
	15	2.78	10.20	6.12	26.80	28.98	27.91	20.67	23.10	21.89	24	67	41
	16	7.25	10.29	8.93	26.34	27.40	26.94	20.25	21.41	20.80	42	108	67
	18	11.25	11.36	11.27	26.48	26.54	26.52	20.09	20.16	20.14	33	49	44
	19	9.85	10.54	10.00	27.01	27.25	27.20	20.66	20.93	20.87	23	51	38
	20	9.33	9.68	9.45	27.37	27.47	27.44	21.04	21.18	21.14	25	46	38
	21	6.36	9.73	8.45	27.42	28.12	27.67	21.17	22.07	21.45	17	40	32
	22	3.89	11.09	7.59	26.92	29.10	28.21	20.84	23.10	21.94	15	29	23
	23	5.31	7.50	6.30	28.66	29.17	28.98	22.40	23.02	22.76	33	68	51
	24	5.42	7.81	6.19	28.78	29.35	29.18	22.39	23.14	22.92	17	70	51

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
	25	2.04	9.41	5.97	28.86	29.95	29.50	22.26	23.93	23.17	18	103	45
	26	3.33	8.60	5.11	28.93	29.81	29.54	22.50	23.71	23.30	35	84	59
	27	4.07	9.16	6.13	28.90	29.72	29.48	22.48	23.58	23.15	13	79	45
	28	7.47	9.21	8.55	28.92	29.39	29.19	22.43	22.94	22.63	34	55	41
Survey 95-01	Average:	3.67	10.36	6.53	26.04	28.98	21.75	19.95	22.97	21.75	22	75	38

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg/m ³)	Max. Dens. (kg/m ³)	Avg. Dens. (kg/m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
Survey 95-03													
	01	0.04	15.61	7.27	26.75	30.27	28.51	19.50	24.28	22.10	15	45	27
	02	4.15	15.66	11.15	25.56	28.86	26.83	18.51	22.89	20.30	16	59	41
	03	5.19	15.69	11.46	25.63	28.61	26.81	18.62	22.59	20.25	23	50	41
	04	3.37	15.80	10.42	25.64	28.98	27.14	18.60	23.05	20.64	27	53	43
	05	6.00	16.13	11.51	26.29	28.31	27.15	19.04	22.25	20.49	26	56	40
	06	12.26	15.45	13.18	26.25	27.42	27.16	19.15	20.66	20.29	40	70	53
	07	15.79	15.88	15.82	26.72	26.74	26.73	19.42	19.45	19.44	69	133	101
	08	18.23	18.39	18.33	26.86	26.94	26.90	18.96	19.06	19.00	54	62	57
	09	16.41	17.89	17.42	26.90	27.04	26.95	19.13	19.55	19.25	42	66	52
	10	16.60	16.90	16.77	27.03	27.07	27.04	19.44	19.50	19.47	46	59	54
	11	16.00	16.24	16.04	27.04	27.06	27.06	19.59	19.65	19.64	40	65	58
	12	14.94	15.11	14.99	27.06	27.11	27.10	19.84	19.91	19.89	44	68	60
	13	15.11	15.68	15.22	27.04	27.12	27.11	19.74	19.88	19.85	50	77	68
	14	14.67	15.94	14.85	26.99	27.21	27.18	19.68	20.04	19.98	33	83	58
	15	11.56	16.82	14.09	26.97	27.93	27.50	19.52	21.18	20.37	26	86	56
	16	9.86	15.74	12.63	27.31	28.30	27.81	19.90	21.75	20.87	25	60	43
	17	9.98	15.77	11.87	27.27	28.26	27.90	19.86	21.70	21.09	17	71	47
	18	10.21	15.80	11.95	27.35	28.20	27.91	19.91	21.62	21.08	16	66	44
	19	10.53	15.26	13.13	27.34	28.15	27.69	20.02	21.52	20.70	20	59	43
	20	10.81	16.46	13.71	27.26	28.11	27.60	19.72	21.45	20.52	21	65	46
	21	12.01	15.19	13.96	27.39	27.91	27.59	20.08	21.09	20.47	25	52	40
	22	9.88	15.61	13.16	27.33	28.38	27.75	19.96	21.80	20.73	27	60	45
	23	7.47	15.74	11.08	27.44	28.85	28.20	20.03	22.52	21.41	18	74	45

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg/m ³)	Max. Dens. (kg/m ³)	Avg. Dens. (kg/m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
	24	7.29	16.88	13.47	27.20	28.90	27.75	19.59	22.58	20.65	17	62	40
	25	7.42	17.98	12.92	26.73	29.01	27.84	19.28	22.65	20.79	15	47	34
	26	9.88	17.25	13.18	27.61	28.83	28.33	19.80	22.16	21.17	19	78	45
	27	10.83	17.34	12.55	27.19	29.00	28.66	19.73	22.13	21.54	14	41	33
	28	10.59	14.64	12.00	28.57	29.27	29.06	21.09	22.38	21.97	22	36	30
	29	2.49	16.46	10.09	28.53	30.14	29.32	20.69	24.04	22.37	11	50	25
	30	4.59	17.12	10.61	28.37	29.92	29.25	20.40	23.69	22.29	9	42	24
	31	9.70	15.79	12.18	28.75	29.42	29.11	21.11	22.64	21.96	13	42	28
	32	13.04	17.56	14.46	28.45	29.09	28.90	20.41	21.81	21.38	23	57	36
	33	11.81	16.59	13.92	28.70	29.16	28.93	20.78	22.09	21.51	24	40	31
	34	2.34	16.62	11.80	28.39	30.29	29.21	20.75	24.17	22.01	12	32	22
	35	0.32	17.14	7.59	28.49	30.51	29.63	20.56	24.47	22.91	12	70	25
	36	1.42	17.95	11.63	27.91	30.16	28.68	20.00	24.13	21.61	10	40	22
	37	1.48	17.95	9.19	28.01	29.99	28.83	19.99	23.99	22.13	8	43	22
	38	2.53	18.64	12.62	27.73	29.34	28.36	19.71	23.40	21.21	9	50	25
Survey 95-03	Average:	9.13	16.44	12.85	27.32	28.58	20.88	19.79	21.94	20.88	25	60	42

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
Survey 95-04													
	01	10.39	18.83	15.72	27.45	31.53	29.44	19.30	23.87	21.49	21	52	36
	02	2.75	18.76	12.93	27.90	29.96	28.80	19.99	23.88	21.42	16	42	30
	03	1.14	19.42	12.71	27.61	30.42	28.88	19.54	24.36	21.45	13	50	30
	04	0.77	19.47	12.33	28.08	30.59	29.02	19.88	24.50	21.63	13	56	30
	05	-0.23	19.93	10.92	27.72	30.94	29.19	19.55	24.84	21.93	12	55	29
	06	6.23	19.49	14.90	27.98	29.56	28.76	19.85	23.18	21.08	19	62	35
	07	1.31	19.47	13.03	27.10	30.58	29.02	19.47	24.47	21.51	14	49	26
	08	0.25	19.16	12.45	27.85	30.83	29.08	19.97	24.73	21.68	13	62	31
	09	0.55	18.96	13.07	28.30	30.82	29.03	20.06	24.71	21.53	14	51	33
	10	0.07	18.92	11.91	27.96	30.94	29.21	19.93	24.83	21.85	14	55	32
	11	-0.32	19.26	7.76	27.70	31.16	29.67	19.78	25.02	22.81	13	52	30
	12	4.20	19.27	12.75	27.92	30.18	28.96	19.84	23.92	21.59	20	61	38
	13	7.27	19.98	14.57	28.29	29.75	28.83	19.53	23.25	21.18	18	108	49
	14	8.76	20.09	13.91	27.96	29.60	28.91	19.60	22.93	21.42	35	107	57
	15	9.36	19.50	15.53	27.94	29.51	28.62	19.63	22.77	20.86	34	88	58
	16	3.64	19.29	11.46	27.94	30.24	29.19	19.93	24.03	22.00	20	86	43
	17	2.34	19.76	11.38	28.02	30.43	29.14	19.70	24.29	21.97	22	83	47
	18	10.62	19.18	14.96	28.42	29.38	28.89	19.94	22.46	21.23	19	99	61
	19	11.75	18.96	13.85	28.41	29.20	28.98	20.12	22.14	21.53	27	116	54
	20	13.03	19.54	16.94	28.34	29.12	28.72	19.96	21.83	20.67	29	84	52
	21	12.16	20.28	16.60	27.90	29.09	28.49	19.32	21.97	20.55	21	85	48
	22	12.03	19.13	15.95	27.35	29.09	28.41	19.17	22.00	20.66	21	95	69
	23	14.11	17.88	16.42	28.22	28.72	28.41	20.12	21.31	20.58	44	99	72

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
	24	18.09	18.52	18.14	28.12	28.17	28.16	19.89	20.03	20.01	27	80	61
	25	18.23	18.46	18.26	28.06	28.11	28.09	19.89	19.99	19.93	45	87	75
	26	18.83	18.94	18.88	27.97	28.03	28.01	19.67	19.75	19.72	49	81	70
	27	19.81	19.82	19.81	27.87	27.88	27.88	19.38	19.39	19.39	82	94	85
	28	20.19	20.20	20.20	27.59	27.61	27.60	19.07	19.08	19.08	60	119	104
	29	17.76	17.80	17.78	27.70	27.74	27.72	19.74	19.77	19.76	39	92	68
	30	18.41	19.63	19.39	27.41	27.64	27.52	19.15	19.54	19.21	65	120	100
	31	18.80	19.23	18.93	26.13	27.19	26.93	18.20	19.10	18.89	52	98	77
	32	20.99	21.34	21.22	25.92	25.97	25.93	17.51	17.64	17.55	85	121	114
	33	21.37	21.56	21.47	25.57	25.69	25.63	17.21	17.33	17.26	82	102	94
	34	21.85	22.00	21.91	24.29	24.88	24.58	16.10	16.59	16.34	104	117	110
	35	21.94	22.57	22.25	22.59	23.63	23.29	14.67	15.61	15.28	74	118	108
	36	22.61	23.09	22.95	17.88	19.30	18.29	10.99	12.17	11.32	101	129	121
	37	23.03	23.64	23.31	13.58	16.36	14.78	7.61	9.85	8.59	122	178	150
	38	17.54	19.61	19.17	27.02	27.36	27.16	18.83	19.53	18.99	20	84	51
	39	8.89	19.80	16.68	26.61	28.82	27.62	18.79	22.27	19.82	26	83	48
	40	10.66	19.68	17.69	26.99	28.46	27.39	18.78	21.74	19.46	36	79	54
	41	12.14	19.14	18.54	27.03	27.68	27.38	19.09	20.81	19.29	26	78	53
	42	8.01	19.59	16.43	26.79	28.68	27.58	19.00	22.30	19.83	37	74	50
	43	16.25	17.71	16.92	27.49	27.81	27.72	19.69	20.17	19.95	46	91	77
	44	19.51	19.52	19.52	27.62	27.63	27.62	19.26	19.27	19.27	57	87	82
Survey 95-04	Average:	11.53	19.69	16.40	26.88	28.32	19.81	18.79	21.21	19.81	39	87	62

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
Survey 95-05													
	01	12.19	15.50	14.88	28.33	29.07	28.48	20.73	21.95	20.97	12	54	36
	02	12.88	15.87	15.39	28.27	28.92	28.45	20.61	21.72	20.85	23	49	33
	03	12.43	15.47	14.87	27.42	28.92	28.13	20.05	21.79	20.70	35	105	81
	04	9.54	15.98	15.43	27.77	29.09	28.05	20.17	22.41	20.52	34	89	74
	05	15.48	16.03	15.66	27.94	28.03	27.99	20.32	20.50	20.44	37	101	85
	06	16.41	16.57	16.44	27.81	27.84	27.83	20.11	20.16	20.15	45	94	83
	07	16.93	16.94	16.94	27.72	27.74	27.73	19.95	19.96	19.96	66	75	69
	08	16.44	16.46	16.45	27.68	27.69	27.68	20.03	20.04	20.03	100	103	102
	09	16.64	16.65	16.65	27.72	27.73	27.73	20.02	20.02	20.02	53	63	56
	10	16.47	16.48	16.47	27.72	27.83	27.82	20.05	20.14	20.13	45	73	57
	11	16.79	16.80	16.79	27.75	27.76	27.75	20.00	20.01	20.01	46	84	76
	12	17.03	17.08	17.05	27.80	27.81	27.80	19.98	20.00	19.99	126	162	155
	13	17.22	17.24	17.22	27.80	27.95	27.81	19.95	20.06	19.95	48	70	65
	14	17.32	17.33	17.32	27.83	27.84	27.83	19.95	19.95	19.95	144	172	155
	15	17.14	17.16	17.15	27.89	28.12	27.90	20.03	20.21	20.04	180	206	189
	16	16.69	16.89	16.82	28.13	28.26	28.19	20.28	20.42	20.34	233	303	251
	17	16.21	16.65	16.54	28.22	28.47	28.33	20.40	20.68	20.51	194	238	215
	18	16.15	16.81	16.68	28.34	28.54	28.38	20.45	20.75	20.51	78	149	94
	19	16.39	16.42	16.40	28.59	28.62	28.61	20.73	20.76	20.75	196	232	210
	20	15.87	15.88	15.87	28.65	28.72	28.71	20.90	20.95	20.94	164	209	181
	21	15.69	15.70	15.69	28.53	28.74	28.74	20.85	21.01	21.00	33	76	66
	22	13.13	15.75	15.17	28.45	29.03	28.73	20.77	21.75	21.10	26	93	68
	23	15.90	16.00	15.93	28.36	28.49	28.49	20.65	20.77	20.76	45	86	70

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
	24	15.96	16.16	16.05	28.46	28.49	28.47	20.70	20.75	20.72	67	88	78
	25	16.16	16.29	16.26	28.39	28.41	28.40	20.62	20.64	20.62	55	89	80
	26	16.22	16.25	16.23	28.38	28.43	28.42	20.62	20.65	20.65	54	86	78
	27	15.11	15.67	15.47	28.35	28.74	28.65	20.71	21.13	20.99	28	84	57
	28	10.71	16.05	15.18	28.31	29.36	28.75	20.59	22.43	21.11	19	65	51
	29	16.20	16.22	16.20	28.63	28.76	28.64	20.81	20.91	20.82	29	56	53
	30	4.73	16.65	13.54	28.42	30.16	28.92	20.59	23.86	21.47	15	46	34
	31	4.90	16.77	14.83	28.27	30.20	28.59	20.45	23.88	21.01	19	50	40
	32	8.67	16.73	15.11	28.37	29.65	28.60	20.50	22.98	20.99	20	60	45
	33	15.82	16.89	16.78	28.56	28.69	28.60	20.60	20.94	20.66	23	75	53
	34	16.81	16.86	16.84	28.54	28.56	28.55	20.59	20.62	20.61	63	87	75
Survey 95-05	Average:	14.65	16.42	16.07	28.16	28.55	20.57	20.40	21.02	20.57	69	108	92

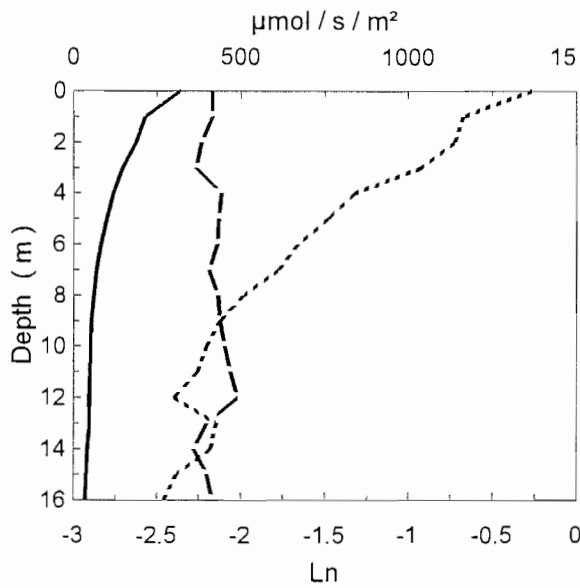
Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg/m ³)	Max. Dens. (kg/m ³)	Avg. Dens. (kg/m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
Survey 95-06													
	01	2.93	11.89	9.94	28.93	30.76	29.43	21.90	24.50	22.58	13	124	57
	02	11.07	12.01	11.71	28.56	28.91	28.68	21.59	22.02	21.74	85	242	177
	03	12.09	12.13	12.11	28.58	28.61	28.60	21.59	21.61	21.60	195	214	205
	04	11.80	12.20	12.09	28.67	28.80	28.73	21.64	21.82	21.71	84	181	154
	05	12.52	12.56	12.54	28.37	28.42	28.40	21.35	21.39	21.38	138	221	204
	06	13.22	13.35	13.27	28.07	28.10	28.08	20.97	21.01	20.99	89	190	164
	07	13.59	13.62	13.60	27.81	27.91	27.82	20.72	20.79	20.72	60	79	73
	08	12.59	12.69	12.63	27.25	27.39	27.31	20.48	20.57	20.51	165	176	171
	09	13.36	13.38	13.37	27.76	27.76	27.76	20.72	20.72	20.72	121	150	144
	10	13.51	13.52	13.52	27.70	27.70	27.70	20.64	20.65	20.65	60	138	119
	11	13.96	13.97	13.96	27.84	27.84	27.84	20.67	20.67	20.67	50	62	59
	12	14.26	14.26	14.26	28.01	28.02	28.02	20.75	20.75	20.75	58	71	67
	13	14.30	14.31	14.30	28.11	28.12	28.11	20.81	20.82	20.81	48	62	57
	14	14.04	14.06	14.05	28.30	28.31	28.31	21.01	21.02	21.01	46	54	49
	15	13.93	13.98	13.94	28.32	28.34	28.33	21.04	21.06	21.05	43	66	55
	16	14.14	14.32	14.17	28.55	28.57	28.56	21.15	21.20	21.19	40	67	57
	17	14.08	14.43	14.14	28.52	28.59	28.55	21.11	21.22	21.18	50	114	78
	18	14.05	14.54	14.10	28.67	28.68	28.68	21.19	21.30	21.29	60	118	93
	19	13.92	14.22	13.97	28.58	28.60	28.60	21.20	21.26	21.25	72	130	105
	21	13.35	13.42	13.37	28.50	28.75	28.69	21.29	21.49	21.44	23	58	53
	22	12.94	13.16	13.08	27.91	28.82	28.65	20.88	21.62	21.46	56	91	76
	23	5.59	12.24	10.37	28.99	30.33	29.38	21.88	23.89	22.47	14	56	36
	24	10.48	11.97	11.78	28.94	29.45	29.04	21.89	22.54	22.01	19	75	54

Survey	Station	Min. Temp. (°C)	Max. Temp. (°C)	Avg. Temp. (°C)	Min. Sal. (PSU)	Max. Sal. (PSU)	Avg. Sal. (PSU)	Min. Dens. (kg / m ³)	Max. Dens. (kg / m ³)	Avg. Dens. (kg / m ³)	Min. Fluor. (rel.)	Max. Fluor. (rel.)	Avg. Fluor. (rel.)
	25	12.00	12.25	12.18	28.59	28.91	28.80	21.57	21.86	21.75	59	114	90
	26	11.72	12.27	12.01	28.66	29.16	28.92	21.62	22.11	21.87	33	116	79
	27	11.59	12.24	12.16	28.71	29.15	28.78	21.67	22.12	21.74	33	115	103
	28	11.28	11.79	11.63	28.95	29.24	29.14	21.93	22.25	22.11	28	62	40
	29	6.93	12.63	11.27	27.86	30.09	29.18	21.74	23.56	22.20	14	47	38
	30	12.64	12.66	12.64	28.76	28.95	28.91	21.63	21.78	21.75	29	48	37
	31	1.81	13.15	11.16	28.12	31.22	29.21	21.56	24.95	22.17	13	104	71
	32	1.30	13.11	10.92	28.69	31.38	29.28	21.55	25.12	22.24	13	70	44
	33	2.72	13.19	12.12	28.79	31.01	29.02	21.55	24.72	21.89	16	61	40
	34	8.70	13.23	13.06	28.73	29.86	28.79	21.52	23.12	21.58	22	56	42
	35	12.21	13.27	13.21	28.70	29.09	28.73	21.46	21.97	21.50	32	73	54
Survey 95-06	Average:	11.14	13.12	12.73	28.40	28.97	21.47	21.30	21.99	21.47	55	106	87

Appendix 6.1 Cardigan, PEI irradiance ($\mu\text{mol/s/m}^2$) profiles - 1995.

1995 Cardigan, P.E.I.

Station 1

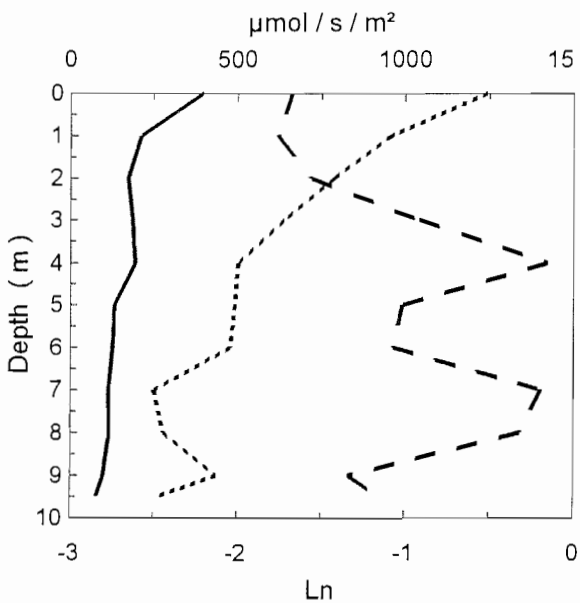


— Irradiance - Water
 - - - Irradiance - Sky Ln (WaterIrrad/SkyIrrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	318	414	-0.26
1	212	415	-0.67
2	186	382	-0.72
3	145	366	-0.93
4	118	443	-1.32
5	99	435	-1.48
6	82	430	-1.66
7	68	405	-1.78
8	59	433	-1.98
9	52	438	-2.12
10	50	451	-2.20
11	49	469	-2.26
12	44	490	-2.40
13	46	397	-2.15
14	41	359	-2.18
15	37	399	-2.39
16	35	416	-2.46

1995 Cardigan, P.E.I.

Station 2

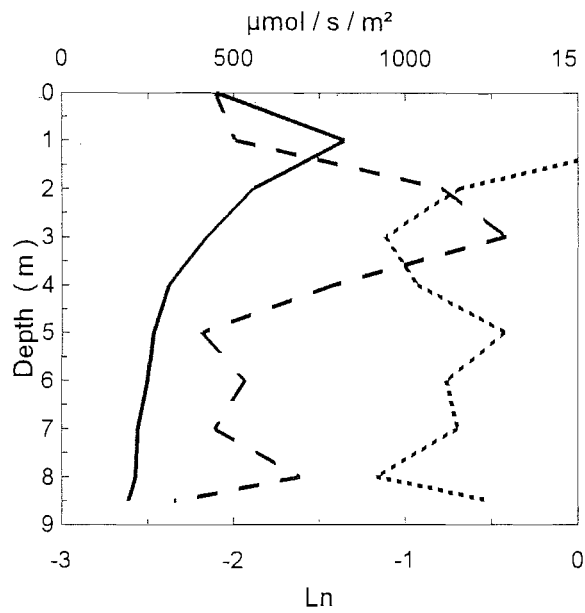


— Irradiance - Water
 - - - Irradiance - Sky Ln (WaterIrrad/SkyIrrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	396	662	-0.51
1	210	622	-1.09
2	173	720	-1.43
3	186	1042	-1.72
4	194	1424	-2.00
5	132	993	-2.01
6	125	965	-2.04
7	115	1402	-2.50
8	117	1340	-2.44
9	99	830	-2.12
10	77	925	-2.48

1995 Cardigan, P.E.I.

Station 3

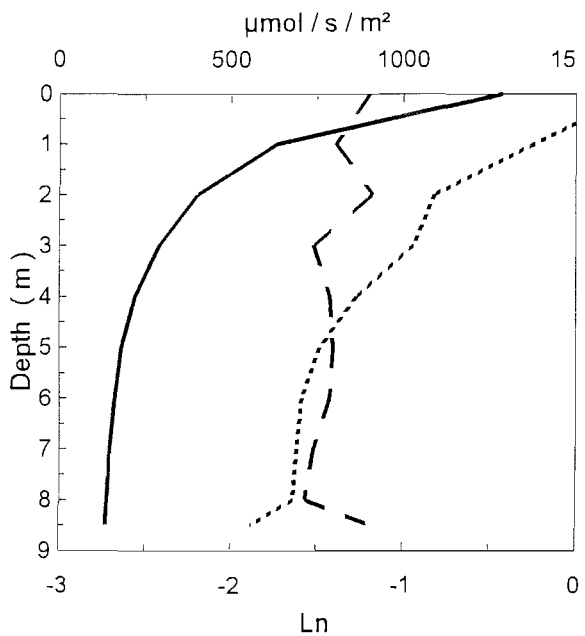


— Irradiance - Water
 - - - Irradiance - Sky Ln (WaterIrrad/SkylIrrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	449	445	0.01
1	823	504	0.49
2	557	1106	-0.69
3	422	1292	-1.12
4	310	789	-0.93
5	265	405	-0.42
6	248	531	-0.76
7	221	443	-0.70
8	215	694	-1.17
9	194	324	-0.51

1995 Cardigan, P.E.I.

Station 4

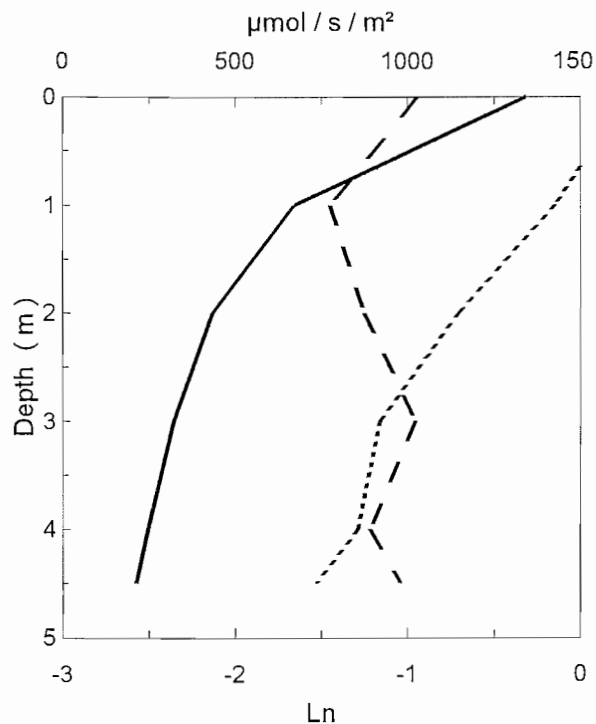


— Irradiance - Water
 - - - Irradiance - Sky Ln (WaterIrrad/SkylIrrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1286	902	0.35
1	631	804	-0.24
2	403	912	-0.82
3	290	741	-0.94
4	221	787	-1.27
5	180	796	-1.48
6	161	787	-1.59
7	147	740	-1.62
8	139	716	-1.64
9	138	905	-1.88

1995 Cardigan, P.E.I.

Station 5



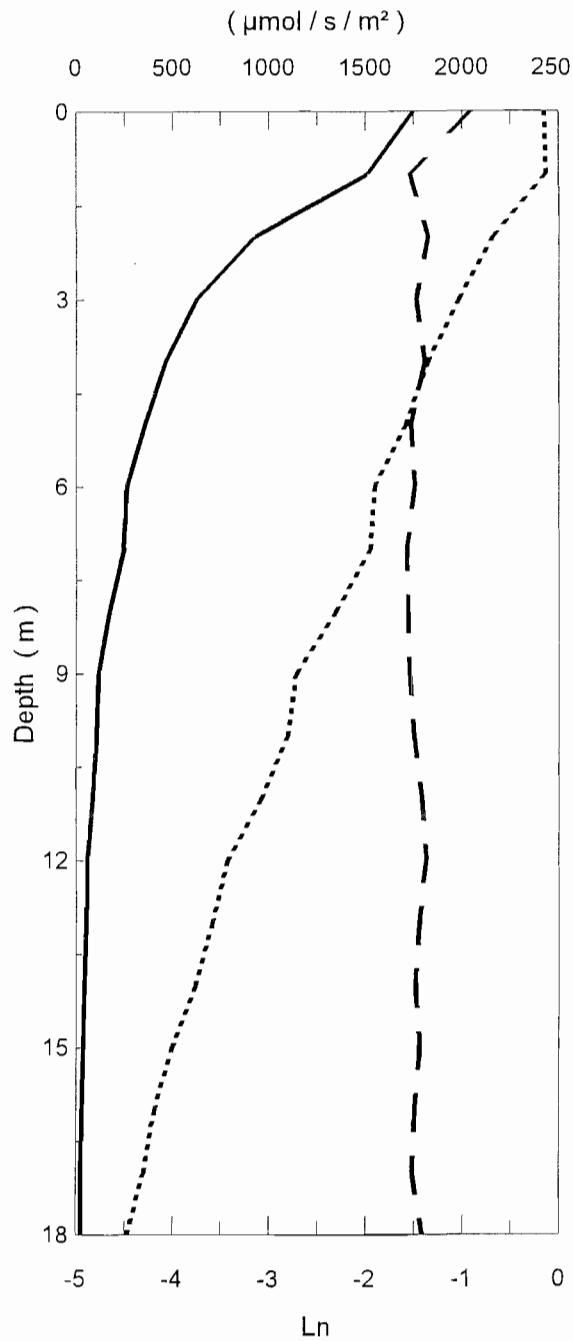
— Irradiance - Water
 - - - Irradiance - Sky Ln (WaterIrrad/SkyIrrad)

Depth (m)	Irradiance Water ($\mu\text{mol} / \text{s} / \text{m}^2$)	Irradiance Sky ($\mu\text{mol} / \text{s} / \text{m}^2$)	Ln (Water / Sky)
0	1343	1027	0.27
1	669	775	-0.15
2	432	873	-0.70
3	320	1022	-1.16
4	245	890	-1.29
5	212	979	-1.53

Appendix 6.2 Survey 95-01 irradiance ($\mu\text{mol/s/m}^2$) profiles.

Survey 95-01

Station 1

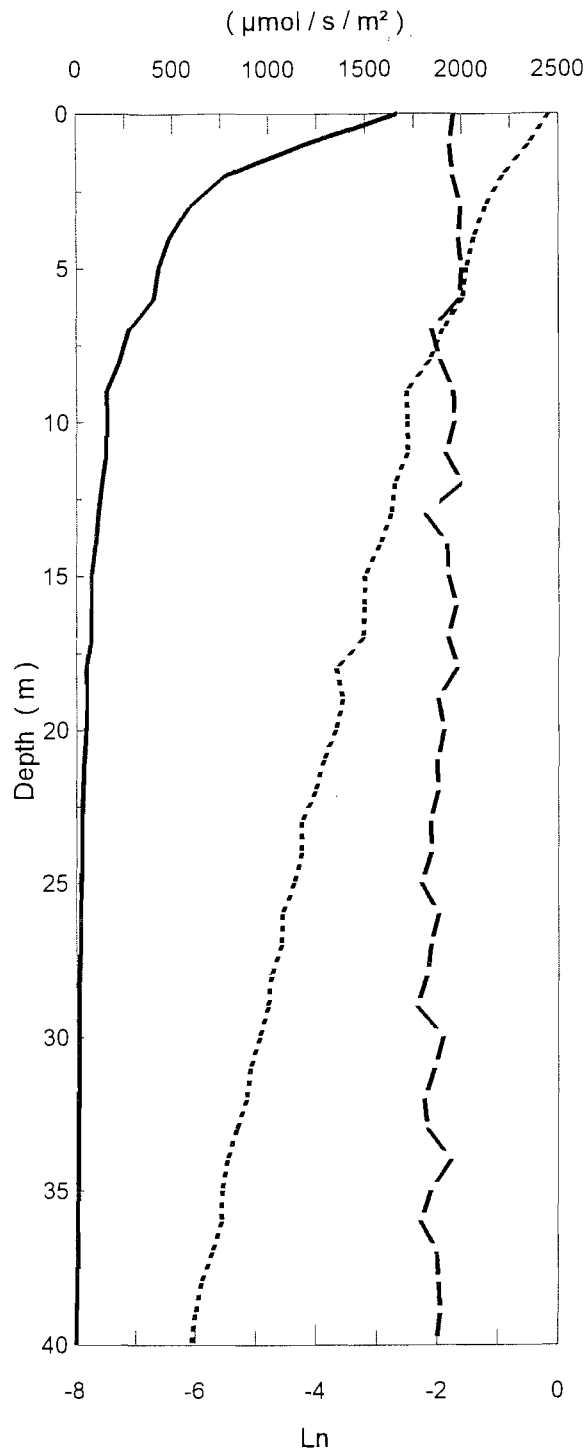


Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1749	2044	-0.16
1	1509	1730	-0.14
2	922	1821	-0.68
3	623	1761	-1.04
4	463	1806	-1.36
5	355	1733	-1.59
6	261	1754	-1.90
7	244	1712	-1.95
8	171	1716	-2.31
9	114	1727	-2.72
10	106	1752	-2.81
11	82	1792	-3.08
12	59	1813	-3.43
13	49	1777	-3.59
14	41	1757	-3.76
15	32	1781	-4.01
16	27	1755	-4.19
17	24	1740	-4.30
18	20	1793	-4.48

— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Survey 95-01

Station 6

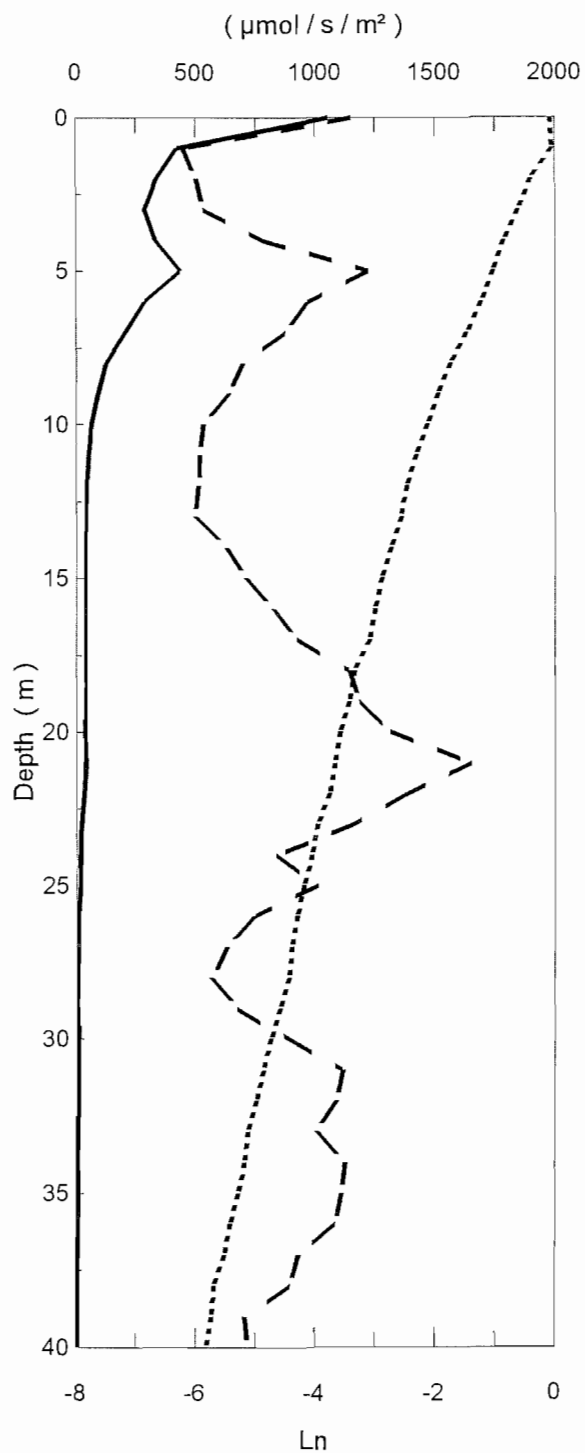


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1668	1954	-0.16
1	1172	1934	-0.50
2	775	1949	-0.92
3	584	1988	-1.23
4	481	1979	-1.41
5	427	1997	-1.54
6	398	1984	-1.61
7	268	1842	-1.93
8	222	1886	-2.14
9	156	1952	-2.53
10	159	1960	-2.51
11	156	1913	-2.51
12	132	1999	-2.71
13	111	1805	-2.79
14	99	1921	-2.96
15	78	1929	-3.21
16	79	1968	-3.21
17	75	1927	-3.24
18	50	1976	-3.68
19	53	1877	-3.57
20	47	1906	-3.70
21	38	1871	-3.89
22	34	1877	-4.02
23	26	1835	-4.26
24	26	1839	-4.26
25	22	1787	-4.38
26	19	1878	-4.58
27	19	1837	-4.59
28	16	1819	-4.76
29	14	1767	-4.81
30	13	1903	-4.95
31	11	1858	-5.10
32	10	1806	-5.16
33	9	1823	-5.33
34	8	1946	-5.49
35	7	1839	-5.58
36	7	1786	-5.58
37	6	1870	-5.74
38	5	1880	-5.92
39	5	1889	-6.02
40	4	1870	-6.08

Survey 95-01

Station 8

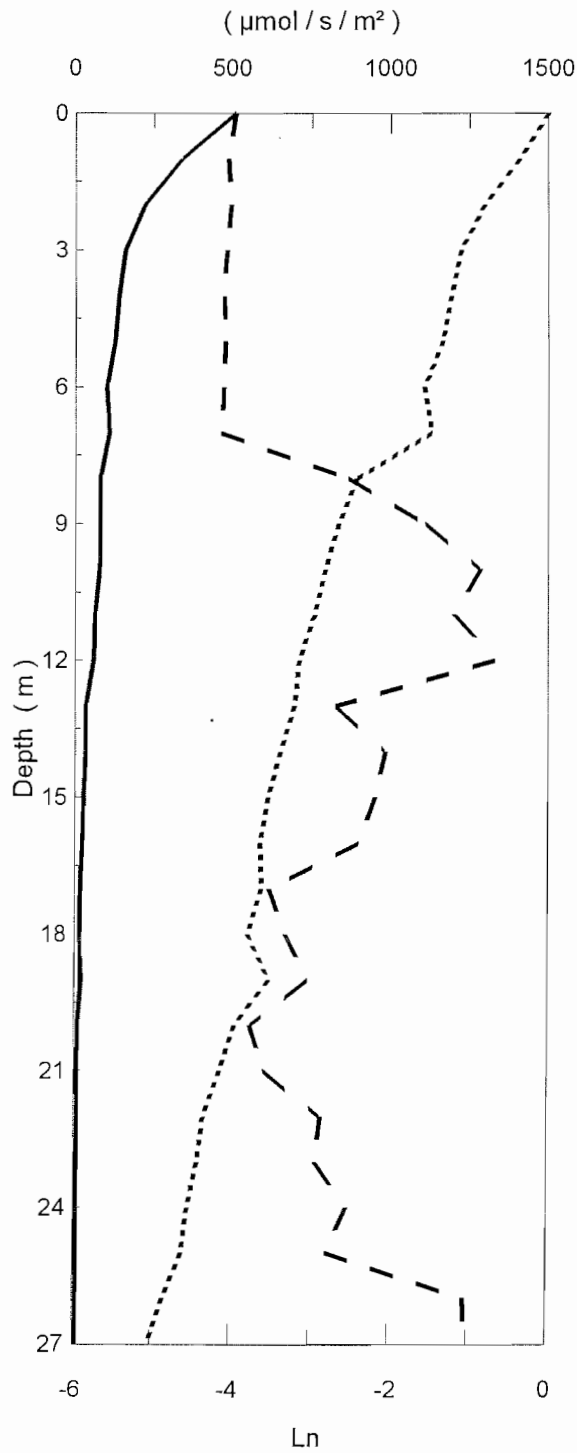


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1053	1150	-0.09
1	423	446	-0.05
2	335	501	-0.40
3	285	530	-0.62
4	330	781	-0.86
5	436	1223	-1.03
6	284	967	-1.23
7	203	875	-1.46
8	121	694	-1.75
9	91	637	-1.95
10	63	530	-2.13
11	51	517	-2.32
12	43	511	-2.47
13	38	498	-2.57
14	41	627	-2.74
15	39	707	-2.89
16	41	824	-3.00
17	42	924	-3.10
18	40	1141	-3.35
19	38	1182	-3.44
20	36	1311	-3.59
21	42	1653	-3.68
22	32	1389	-3.77
23	22	1161	-3.96
24	14	835	-4.07
25	15	1009	-4.20
26	10	746	-4.31
27	8	632	-4.40
28	7	568	-4.44
29	7	672	-4.59
30	8	889	-4.75
31	9	1115	-4.87
32	7	1088	-4.99
33	6	1006	-5.13
34	6	1124	-5.18
35	6	1107	-5.30
36	5	1083	-5.43
37	4	929	-5.53
38	3	893	-5.69
39	2	706	-5.73
40	2	723	-5.83

Survey 95-01

Station 9

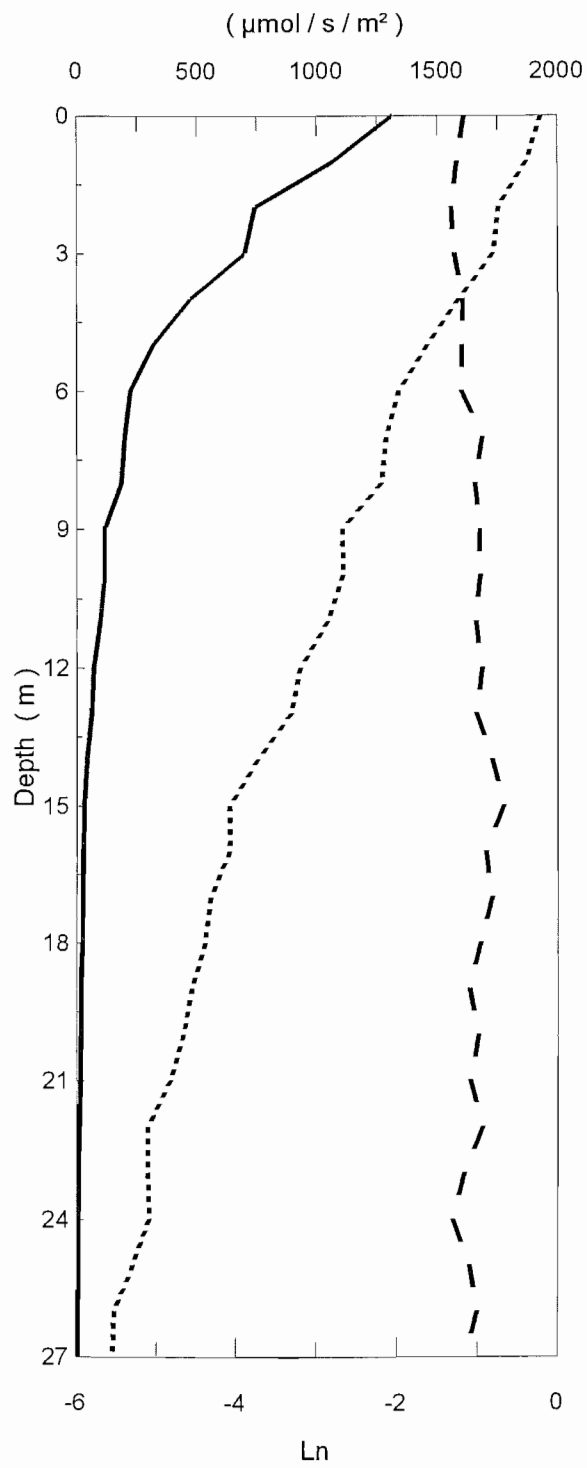


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	507	509	-0.00
1	337	486	-0.37
2	220	494	-0.81
3	157	479	-1.11
4	137	471	-1.23
5	125	474	-1.34
6	98	472	-1.57
7	106	464	-1.48
8	77	868	-2.42
9	78	1110	-2.66
10	76	1285	-2.83
11	62	1201	-2.96
12	57	1331	-3.16
13	33	827	-3.21
14	33	984	-3.39
15	27	952	-3.55
16	24	901	-3.64
17	16	617	-3.63
18	15	668	-3.80
19	22	740	-3.53
20	11	560	-3.96
21	10	602	-4.15
22	10	784	-4.35
23	9	768	-4.42
24	9	866	-4.55
25	8	805	-4.62
26	10	1238	-4.86
27	8	1244	-5.04

Survey 95-01

Station 13

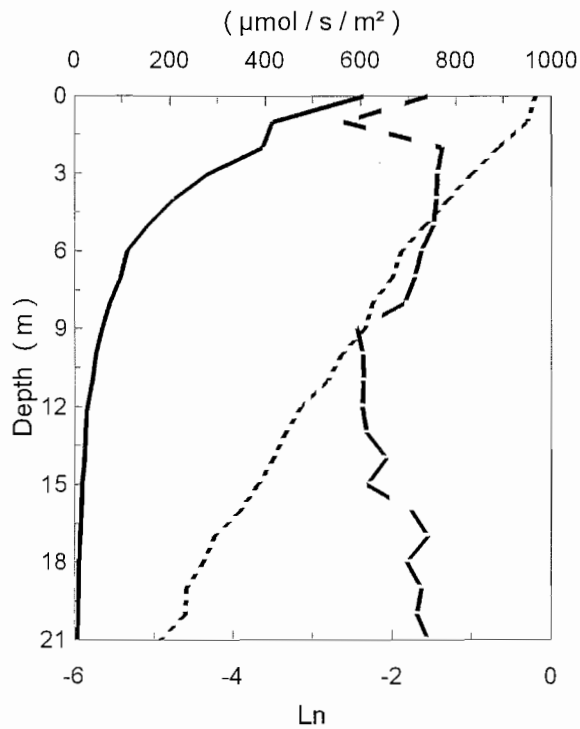


_____ Irradiance - Water
 - - - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1312	1611	-0.21
1	1066	1582	-0.39
2	740	1558	-0.74
3	699	1570	-0.81
4	469	1606	-1.23
5	316	1601	-1.62
6	220	1597	-1.98
7	197	1683	-2.14
8	184	1654	-2.20
9	114	1673	-2.69
10	114	1675	-2.69
11	94	1655	-2.87
12	68	1683	-3.21
13	59	1658	-3.33
14	41	1726	-3.74
15	30	1775	-4.09
16	28	1700	-4.09
17	23	1727	-4.33
18	21	1677	-4.40
19	17	1633	-4.57
20	16	1669	-4.67
21	13	1636	-4.83
22	10	1688	-5.11
23	10	1611	-5.11
24	10	1566	-5.09
25	8	1632	-5.30
26	7	1665	-5.53
27	6	1614	-5.54

Survey 95-01

Station 14

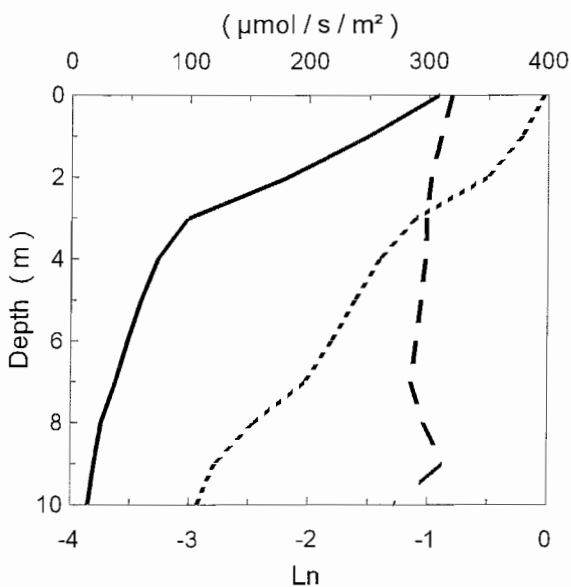


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	605	740	-0.20
1	414	563	-0.31
2	394	770	-0.67
3	279	760	-1.00
4	207	758	-1.30
5	153	752	-1.60
6	109	726	-1.89
7	96	714	-2.01
8	73	691	-2.25
9	57	592	-2.35
10	43	604	-2.65
11	36	606	-2.82
12	26	603	-3.15
13	21	612	-3.35
14	20	654	-3.51
15	15	613	-3.69
16	14	706	-3.91
17	11	741	-4.24
18	9	697	-4.38
19	7	728	-4.60
20	7	718	-4.61
21	5	740	-4.92

Survey 95-01

Station 15

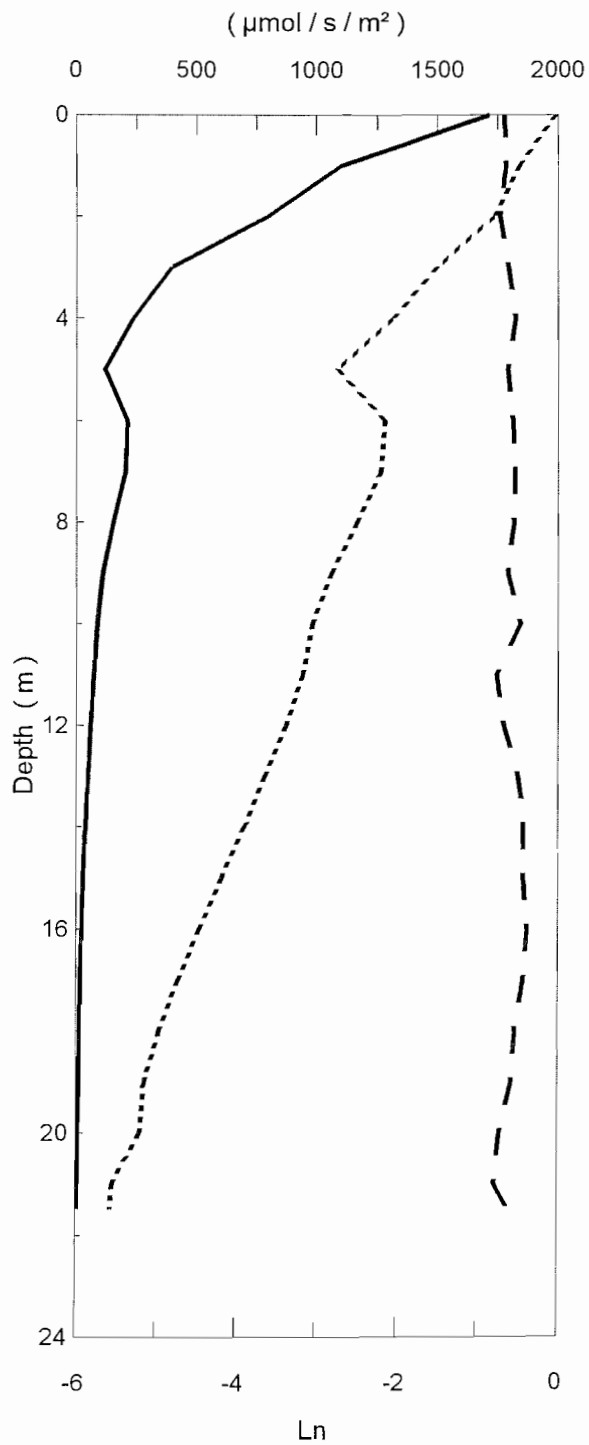


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	308	319	-0.04
1	249	310	-0.22
2	181	302	-0.51
3	98	298	-1.11
4	72	297	-1.41
5	58	294	-1.61
6	47	290	-1.81
7	37	285	-2.04
8	25	296	-2.46
9	19	312	-2.79
10	14	272	-2.93

Survey 95-01

Station 19

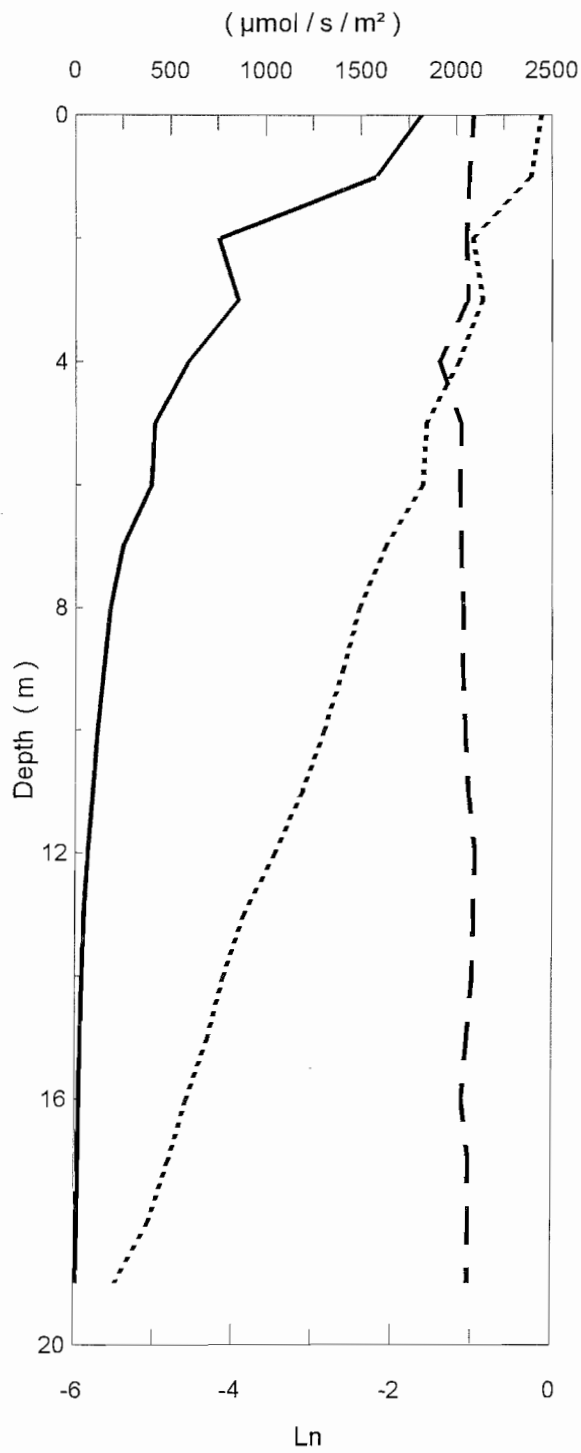


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1715	1777	-0.04
1	1100	1783	-0.48
2	796	1759	-0.79
3	396	1794	-1.51
4	234	1822	-2.05
5	115	1792	-2.75
6	209	1812	-2.16
7	201	1820	-2.21
8	150	1818	-2.50
9	107	1792	-2.82
10	87	1844	-3.05
11	73	1745	-3.17
12	60	1775	-3.38
13	48	1837	-3.64
14	37	1855	-3.90
15	28	1855	-4.19
16	21	1872	-4.47
17	16	1854	-4.74
18	13	1821	-4.97
19	10	1806	-5.15
20	10	1757	-5.20
21	7	1736	-5.56
21.5	7	1797	-5.57

Survey 95-01

Station 20

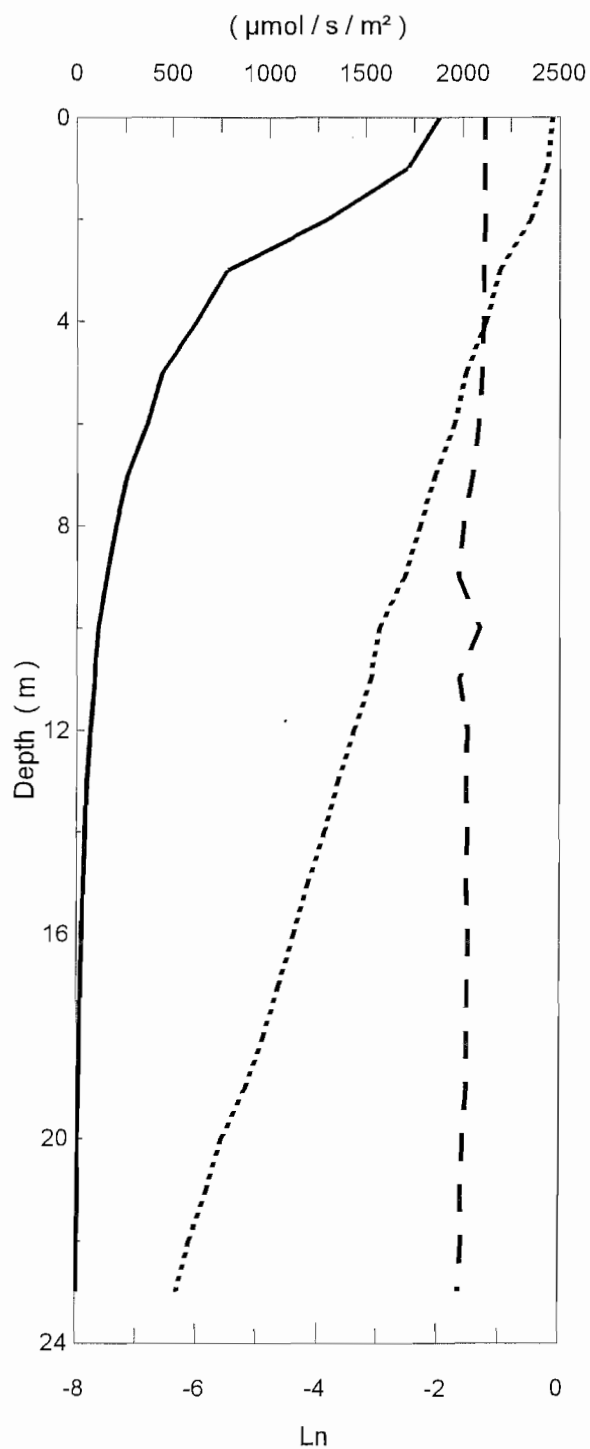


_____ Irradiance - Water
 - - - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1816	2089	-0.14
1	1579	2064	-0.27
2	754	2049	-1.00
3	852	2056	-0.88
4	590	1911	-1.18
5	414	2019	-1.58
6	396	2018	-1.63
7	249	2021	-2.09
8	180	2033	-2.42
9	147	2032	-2.62
10	116	2043	-2.87
11	89	2060	-3.14
12	64	2094	-3.49
13	44	2088	-3.87
14	33	2082	-4.13
15	27	2055	-4.33
16	21	2027	-4.59
17	17	2062	-4.82
18	13	2063	-5.07
19	9	2065	-5.49

Survey 95-01

Station 21

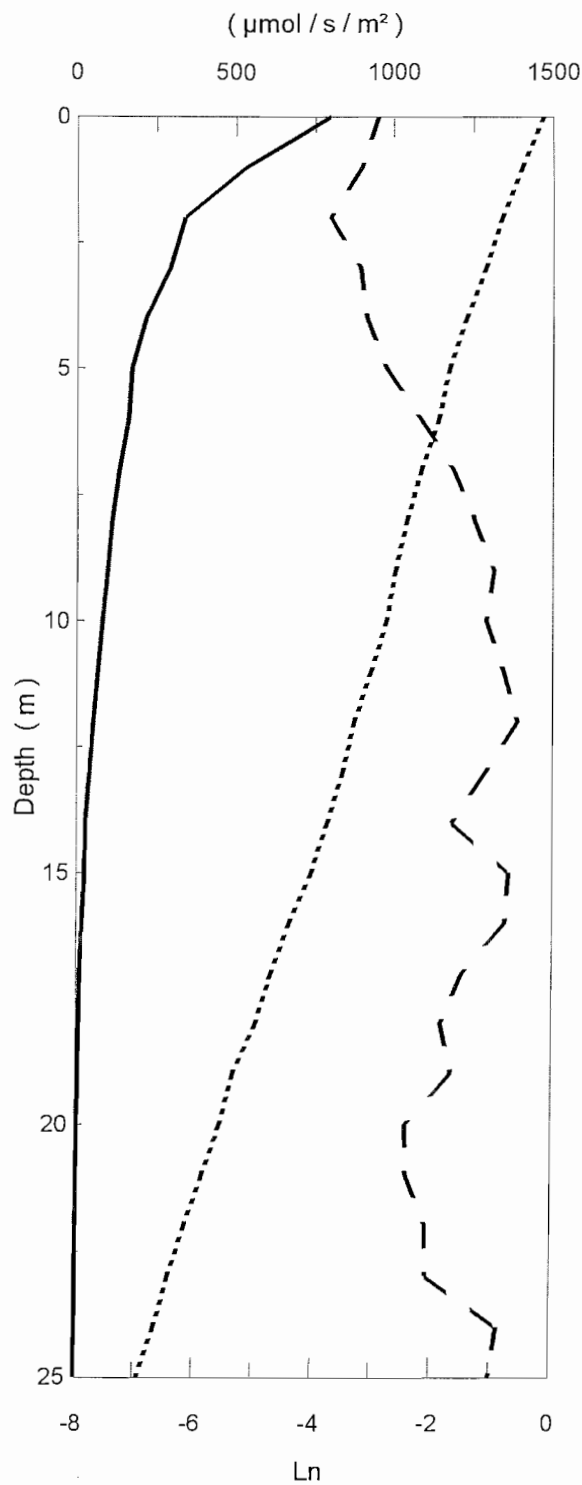


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1877	2112	-0.12
1	1715	2112	-0.21
2	1296	2110	-0.49
3	776	2106	-1.00
4	620	2104	-1.22
5	438	2093	-1.56
6	362	2077	-1.75
7	258	2047	-2.07
8	198	1996	-2.31
9	151	1973	-2.57
10	106	2083	-2.98
11	87	1979	-3.13
12	68	2020	-3.39
13	52	2015	-3.67
14	41	2020	-3.89
15	31	2014	-4.17
16	25	2025	-4.40
17	19	2020	-4.65
18	15	2017	-4.90
19	11	2018	-5.19
20	8	2002	-5.58
21	6	1990	-5.84
22	4	1994	-6.12
23	4	1981	-6.33

Survey 95-01

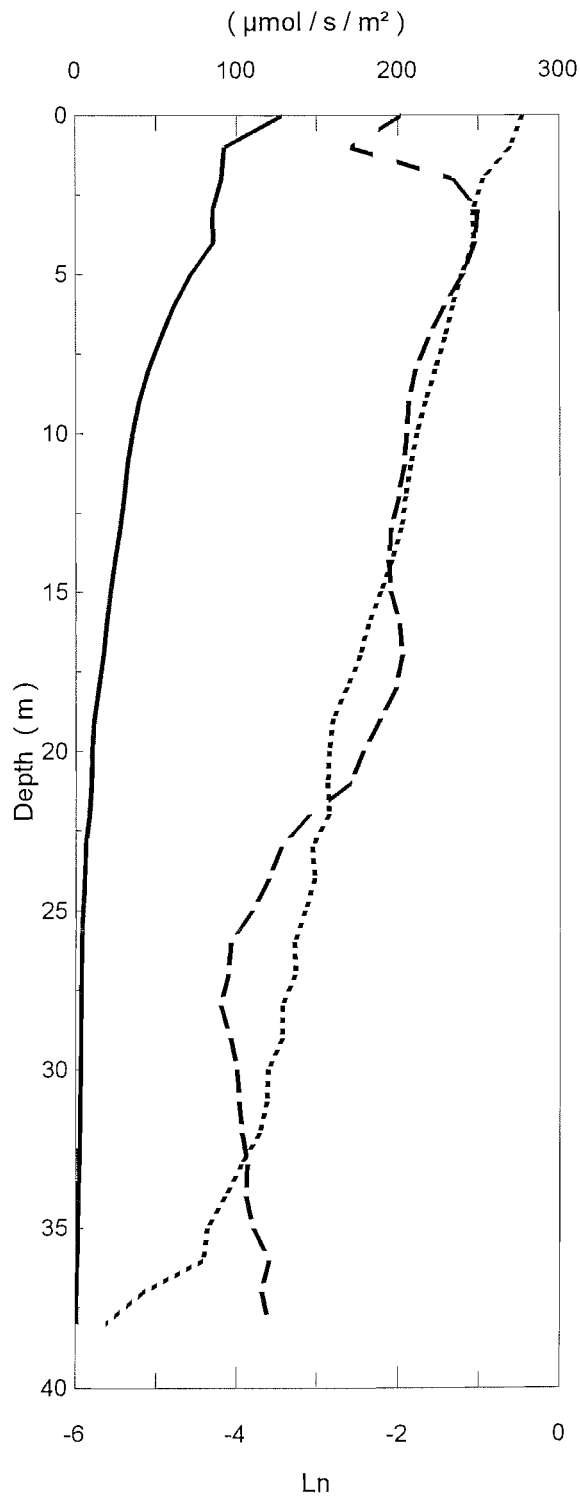
Station 23



Depth (m)	Irradiance Water ($\mu\text{mol}/\text{s}/\text{m}^2$)	Irradiance Sky ($\mu\text{mol}/\text{s}/\text{m}^2$)	Ln (Water / Sky)
0	798	949	-0.17
1	530	897	-0.53
2	337	797	-0.86
3	290	892	-1.12
4	214	913	-1.45
5	170	976	-1.75
6	159	1085	-1.92
7	131	1185	-2.20
8	109	1252	-2.44
9	94	1314	-2.63
10	79	1291	-2.79
11	64	1344	-3.05
12	50	1388	-3.33
13	38	1288	-3.52
14	27	1184	-3.78
15	24	1362	-4.05
16	16	1351	-4.41
17	11	1217	-4.72
18	8	1151	-4.98
19	6	1186	-5.35
20	4	1041	-5.57
21	3	1046	-5.86
22	2	1109	-6.15
23	2	1110	-6.42
24	2	1335	-6.66
25	1	1310	-6.93

Survey 95-01

Station 25

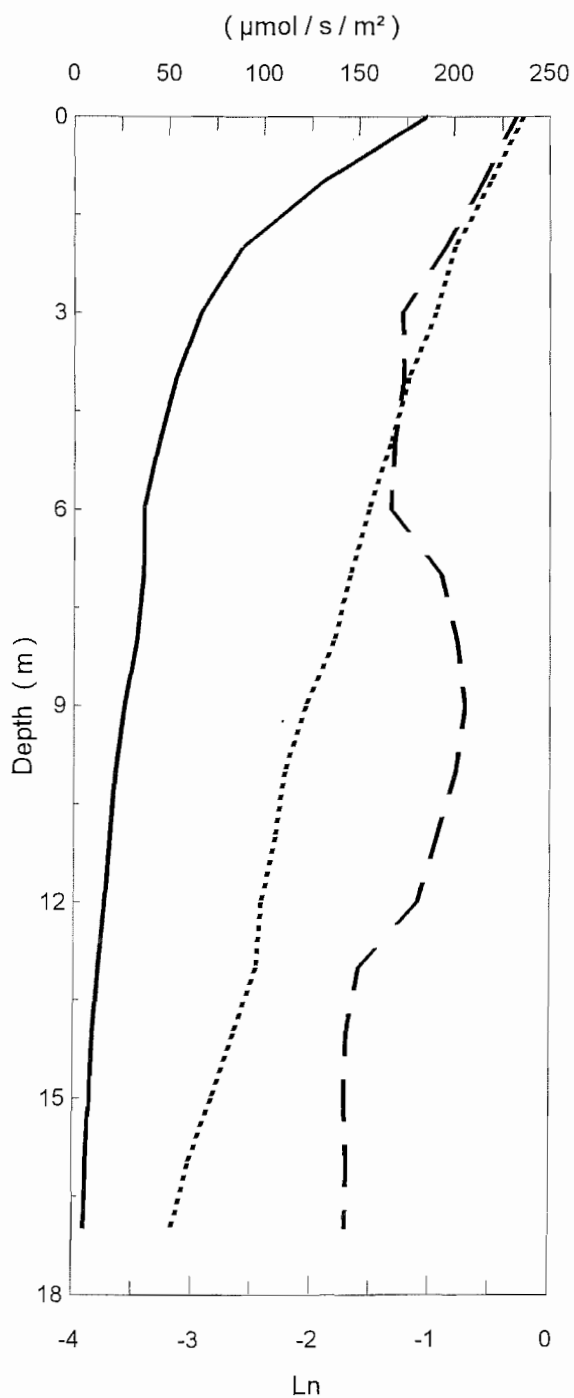


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	128	202	-0.46
1	92	171	-0.61
2	91	234	-0.95
3	85	249	-1.08
4	85	247	-1.07
5	71	240	-1.21
6	60	228	-1.33
7	53	219	-1.42
8	45	211	-1.55
9	39	206	-1.67
10	35	205	-1.77
11	32	203	-1.86
12	29	200	-1.92
13	27	195	-1.97
14	24	194	-2.09
15	21	195	-2.22
16	19	201	-2.37
17	17	202	-2.48
18	14	198	-2.63
19	11	189	-2.81
20	10	178	-2.86
21	10	171	-2.88
22	8	145	-2.86
23	6	127	-3.07
24	6	120	-3.04
25	5	109	-3.16
26	4	96	-3.28
27	4	95	-3.27
28	3	90	-3.44
29	3	96	-3.43
30	3	100	-3.61
31	3	101	-3.63
32	3	103	-3.71
33	2	107	-3.94
34	2	106	-4.14
35	1	110	-4.37
36	1	120	-4.42
37	1	115	-5.16
38	0	121	-5.63

Survey 95-01

Station 28



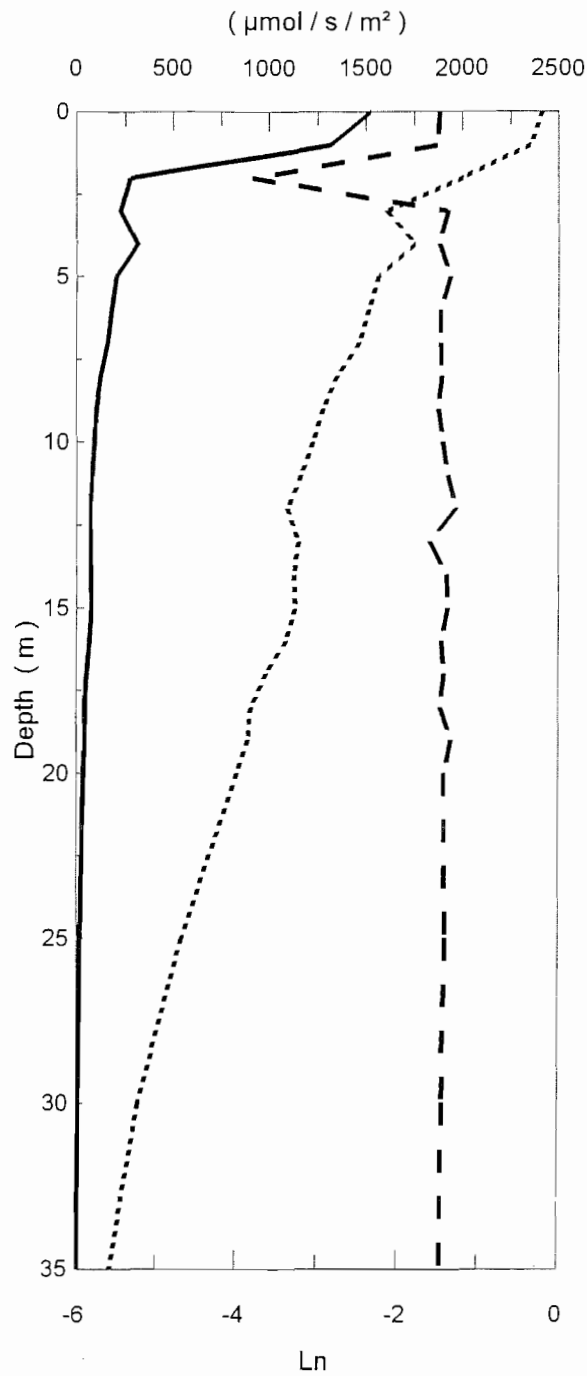
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	185	232	-0.23
1	130	215	-0.50
2	88	196	-0.80
3	66	173	-0.96
4	53	173	-1.18
5	44	168	-1.34
6	36	167	-1.52
7	36	193	-1.67
8	33	201	-1.82
9	26	206	-2.05
10	22	201	-2.23
11	19	191	-2.31
12	16	181	-2.42
13	13	150	-2.47
14	10	144	-2.66
15	8	142	-2.84
16	7	144	-3.03
17	6	143	-3.17

Appendix 6.3 Survey 95-03 irradiance ($\mu\text{mol/s/m}^2$) profiles.

Survey 95-03

Station 1

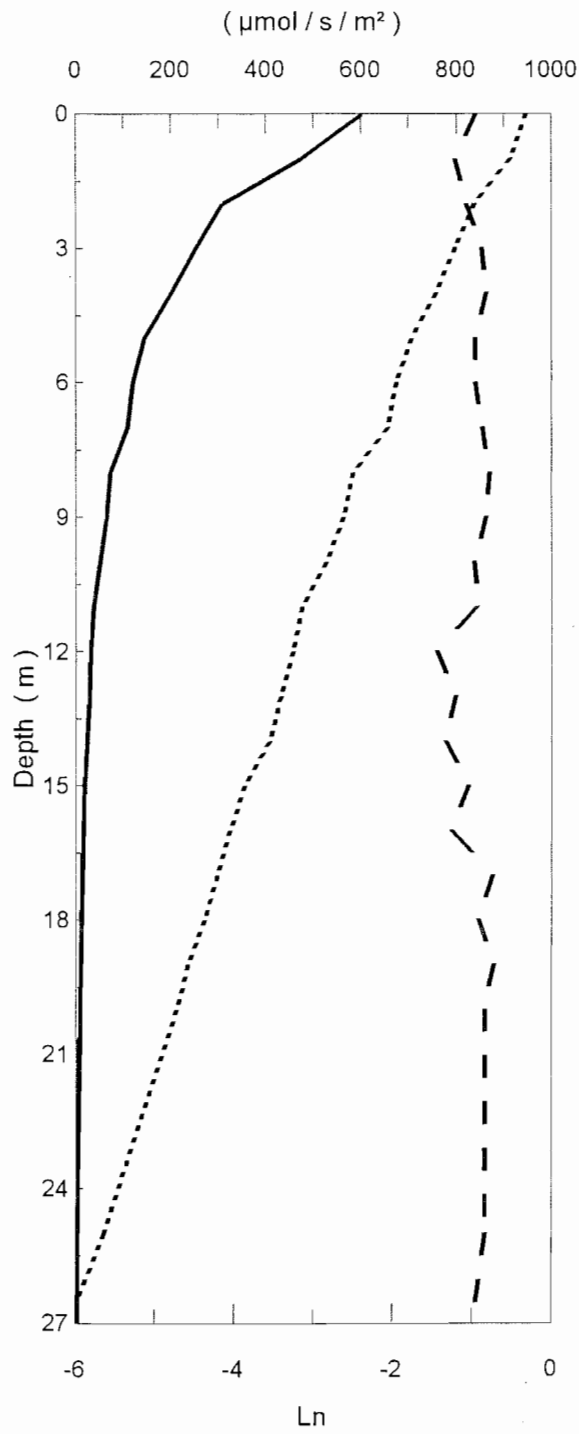


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1522	1878	-0.21
1	1315	1868	-0.35
2	277	911	-1.19
3	226	1925	-2.14
4	314	1877	-1.79
5	204	1936	-2.25
6	177	1885	-2.37
7	157	1883	-2.49
8	121	1891	-2.75
9	99	1873	-2.94
10	88	1895	-3.07
11	78	1923	-3.21
12	67	1964	-3.37
13	72	1830	-3.23
14	71	1916	-3.30
15	73	1923	-3.28
16	63	1888	-3.39
17	50	1901	-3.64
18	41	1883	-3.83
19	41	1939	-3.87
20	35	1903	-4.00
25	17	1909	-4.70
30	10	1893	-5.24
35	7	1888	-5.58

Survey 95-03

Station 4

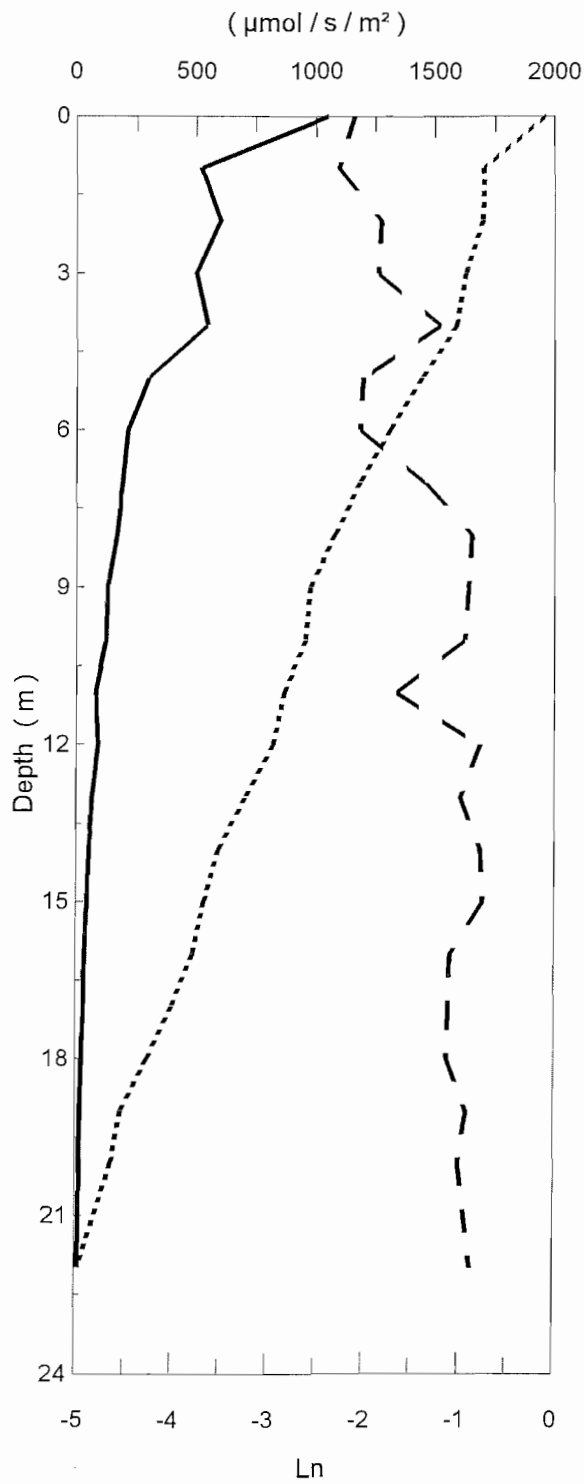


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	604	840	-0.33
1	473	797	-0.52
2	309	819	-0.98
3	252	852	-1.22
4	200	861	-1.46
5	144	839	-1.77
6	118	838	-1.96
7	108	853	-2.06
8	71	869	-2.50
9	63	860	-2.62
10	49	838	-2.84
11	36	843	-3.14
12	29	759	-3.26
13	26	799	-3.41
14	22	777	-3.55
15	17	826	-3.87
16	14	788	-4.05
17	13	875	-4.22
18	11	845	-4.38
19	9	876	-4.59
20	8	859	-4.73
25	3	859	-5.66
27	2	834	-6.10

Survey 95-03

Station 5

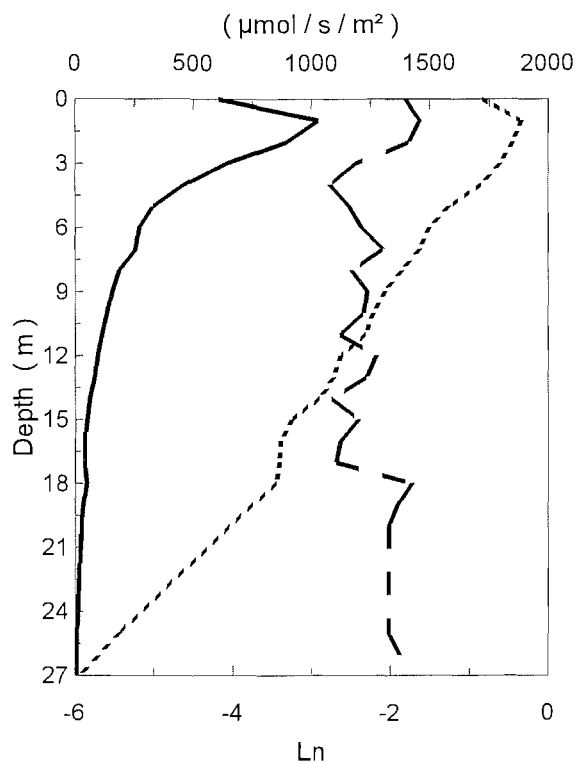


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1049	1160	-0.10
1	518	1093	-0.75
2	596	1271	-0.76
3	496	1261	-0.93
4	545	1523	-1.03
5	295	1196	-1.40
6	211	1186	-1.73
7	189	1458	-2.04
8	166	1653	-2.30
9	127	1640	-2.56
10	120	1627	-2.61
11	79	1336	-2.83
12	89	1689	-2.94
13	63	1608	-3.23
14	50	1689	-3.52
15	43	1698	-3.67
16	36	1564	-3.78
17	28	1555	-4.01
18	22	1550	-4.26
19	18	1633	-4.53
20	15	1599	-4.64
22	11	1653	-4.97

Survey 95-03

Station 6

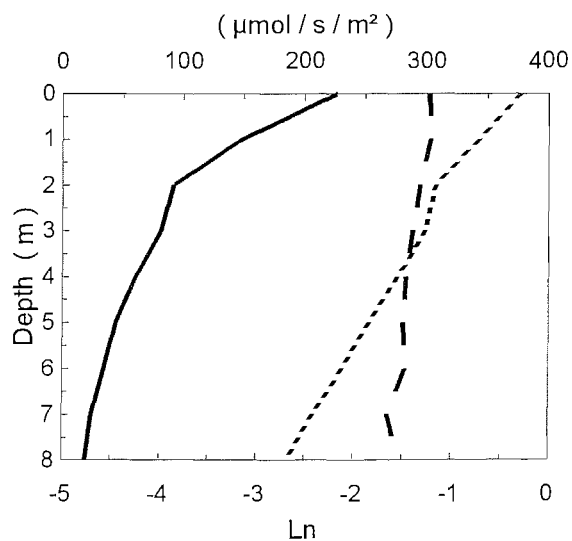


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	605	1395	-0.84
1	1031	1454	-0.34
2	892	1408	-0.46
3	636	1185	-0.62
4	458	1076	-0.85
5	327	1158	-1.26
6	266	1210	-1.51
7	253	1301	-1.64
8	182	1168	-1.86
9	154	1234	-2.08
10	132	1219	-2.22
11	110	1121	-2.32
12	92	1273	-2.63
13	81	1232	-2.72
14	60	1085	-2.90
15	46	1200	-3.26
16	38	1122	-3.39
17	36	1104	-3.41
18	45	1424	-3.45
19	32	1364	-3.76
20	23	1326	-4.05
25	6	1325	-5.43
27	4	1415	-5.95

Survey 95-03

Station 9

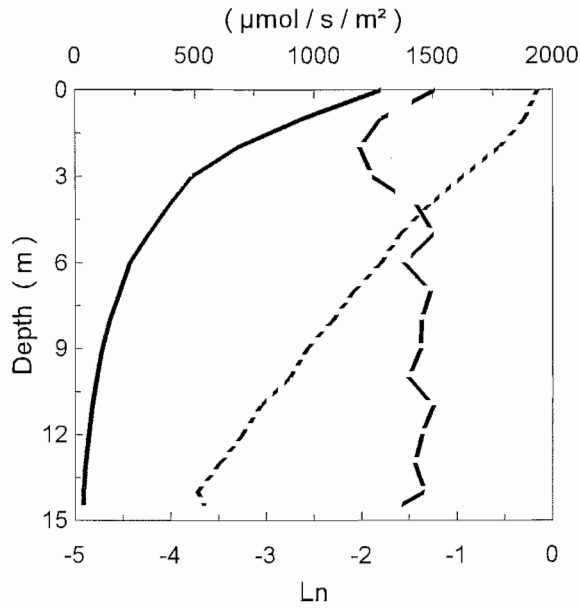


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	226	302	-0.29
1	148	303	-0.72
2	91	294	-1.17
3	81	288	-1.27
4	60	283	-1.55
5	44	280	-1.85
6	34	282	-2.12
7	24	268	-2.42
8	19	277	-2.68

Survey 95-03

Station 11

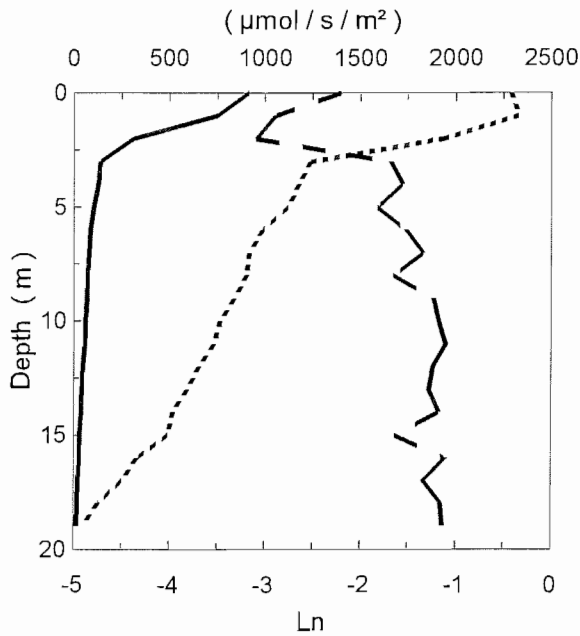


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (μmol/s/m ²)	Irradiance Sky (μmol/s/m ²)	Ln (Water / Sky)
0	1278	1507	-0.16
1	945	1276	-0.30
2	676	1190	-0.57
3	486	1244	-0.94
4	392	1428	-1.29
5	304	1501	-1.60
6	227	1378	-1.80
7	185	1487	-2.09
8	144	1450	-2.31
9	110	1446	-2.58
10	89	1395	-2.76
11	70	1498	-3.06
12	56	1452	-3.25
13	43	1424	-3.49
14	35	1462	-3.72
14.5	35	1359	-3.65

Survey 95-03

Station 13

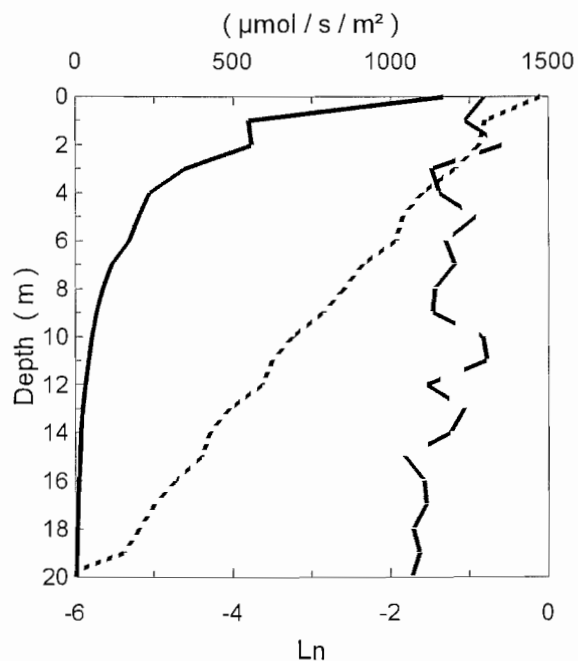


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (μmol/s/m ²)	Irradiance Sky (μmol/s/m ²)	Ln (Water / Sky)
0	912	1397	-0.43
1	747	1055	-0.35
2	311	954	-1.12
3	133	1656	-2.53
4	122	1720	-2.64
5	100	1588	-2.76
6	84	1738	-3.03
7	77	1830	-3.17
8	69	1673	-3.19
9	68	1884	-3.32
10	59	1912	-3.48
11	57	1949	-3.54
12	47	1879	-3.70
13	41	1859	-3.82
14	36	1909	-3.97
15	30	1681	-4.02
16	25	1944	-4.34
17	20	1831	-4.50
18	17	1919	-4.75
19	14	1932	-4.90

Survey 95-03

Station 16

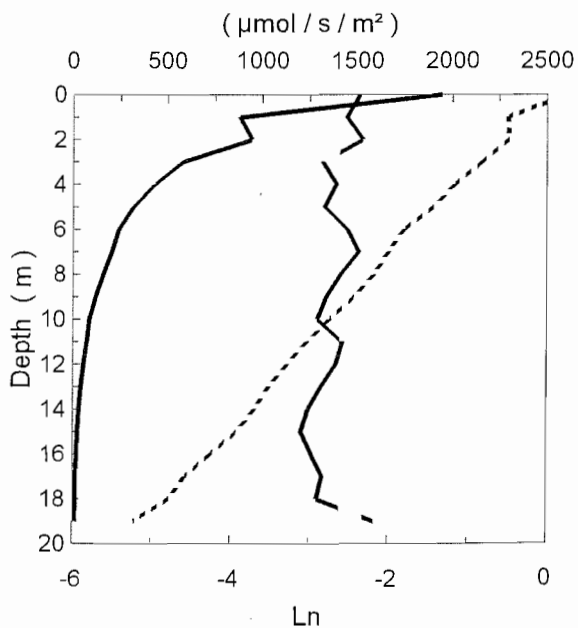


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1166	1295	-0.10
1	547	1234	-0.81
2	557	1352	-0.89
3	344	1127	-1.19
4	233	1152	-1.60
5	199	1267	-1.85
6	168	1173	-1.94
7	113	1202	-2.36
8	84	1138	-2.60
9	65	1132	-2.86
10	50	1291	-3.25
11	39	1303	-3.51
12	29	1113	-3.63
13	21	1232	-4.06
14	16	1188	-4.30
15	13	1045	-4.40
16	10	1106	-4.74
17	7	1111	-5.01
18	6	1071	-5.20
19	5	1091	-5.39
20	2	1066	-6.22

Survey 95-03

Station 17

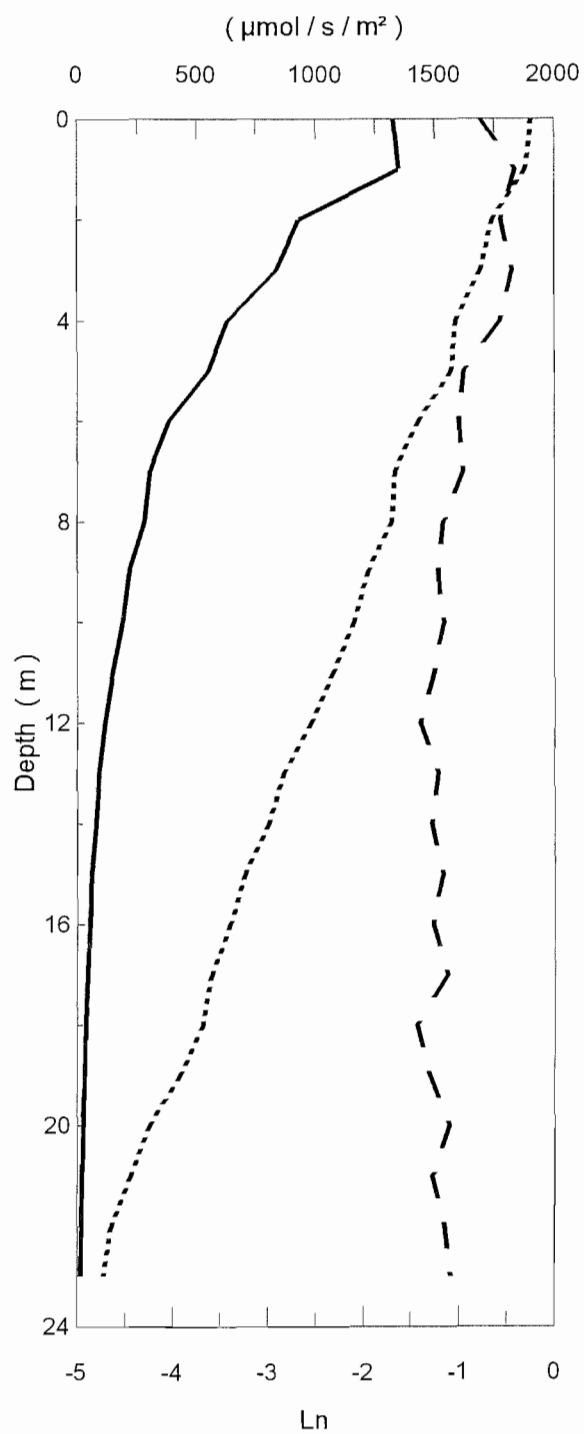


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1943	1513	0.25
1	878	1442	-0.50
2	944	1528	-0.48
3	577	1318	-0.83
4	433	1390	-1.17
5	317	1329	-1.43
6	238	1448	-1.80
7	203	1508	-2.01
8	159	1412	-2.18
9	117	1337	-2.44
10	83	1292	-2.74
11	69	1424	-3.03
12	52	1390	-3.28
13	39	1311	-3.52
14	31	1245	-3.70
15	24	1206	-3.93
16	18	1260	-4.25
17	14	1319	-4.58
18	11	1291	-4.78
19	9	1595	-5.23

Survey 95-03

Station 18

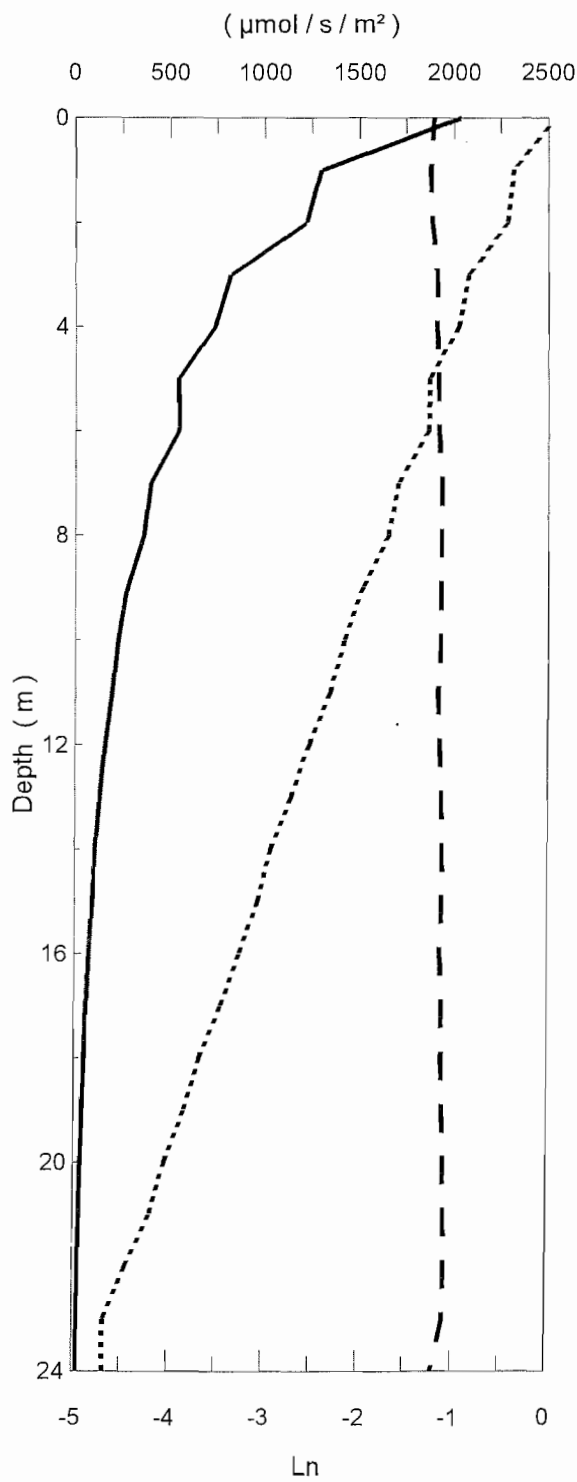


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1326	1692	-0.24
1	1346	1833	-0.31
2	927	1775	-0.65
3	834	1820	-0.78
4	628	1773	-1.04
5	546	1618	-1.09
6	381	1598	-1.43
7	301	1616	-1.68
8	278	1534	-1.71
9	212	1507	-1.96
10	187	1534	-2.11
11	146	1494	-2.32
12	112	1437	-2.55
13	88	1511	-2.84
14	74	1485	-3.00
15	60	1532	-3.24
16	50	1491	-3.40
17	43	1552	-3.59
18	35	1422	-3.70
19	29	1477	-3.92
20	22	1557	-4.25
21	17	1488	-4.45
22	15	1535	-4.66
23	14	1563	-4.73

Survey 95-03

Station 19

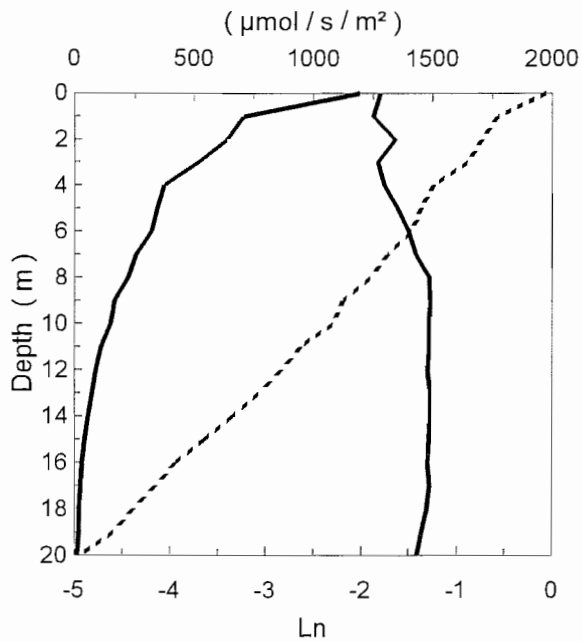


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	2034	1894	0.07
1	1294	1875	-0.37
2	1217	1885	-0.44
3	817	1910	-0.85
4	733	1906	-0.96
5	542	1916	-1.26
6	543	1919	-1.26
7	393	1933	-1.59
8	357	1935	-1.69
9	269	1935	-1.97
10	223	1930	-2.16
11	190	1921	-2.31
12	153	1924	-2.53
13	127	1935	-2.72
14	104	1941	-2.93
15	90	1936	-3.07
16	74	1932	-3.26
17	61	1940	-3.45
18	49	1941	-3.68
19	42	1943	-3.84
20	34	1956	-4.05
21	29	1953	-4.20
22	23	1962	-4.45
23	18	1956	-4.69
24	17	1895	-4.69

Survey 95-03

Station 20

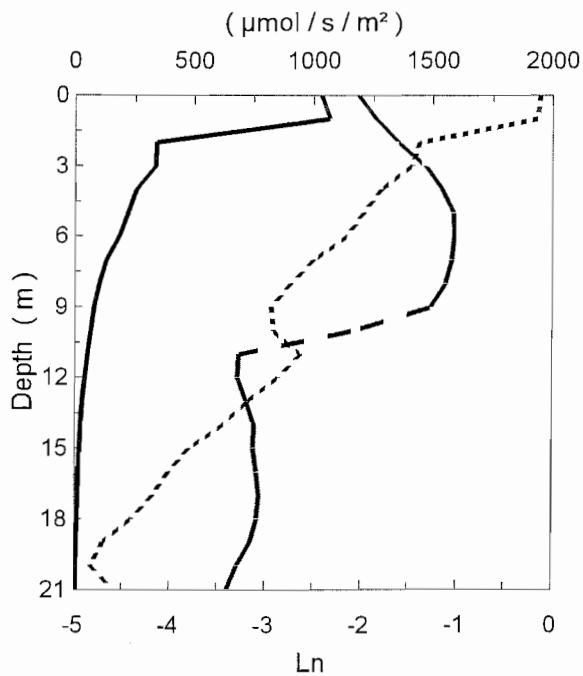


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1194	1280	-0.07
1	704	1251	-0.57
2	639	1342	-0.74
3	520	1267	-0.89
4	373	1295	-1.25
5	342	1352	-1.38
6	319	1398	-1.48
7	255	1428	-1.72
8	220	1486	-1.91
9	166	1488	-2.20
10	149	1481	-2.30
11	106	1482	-2.64
12	86	1477	-2.84
13	69	1488	-3.08
14	52	1489	-3.35
15	39	1481	-3.64
16	29	1477	-3.95
17	23	1484	-4.15
18	18	1475	-4.39
19	15	1452	-4.60
20	10	1435	-4.95

Survey 95-03

Station 21

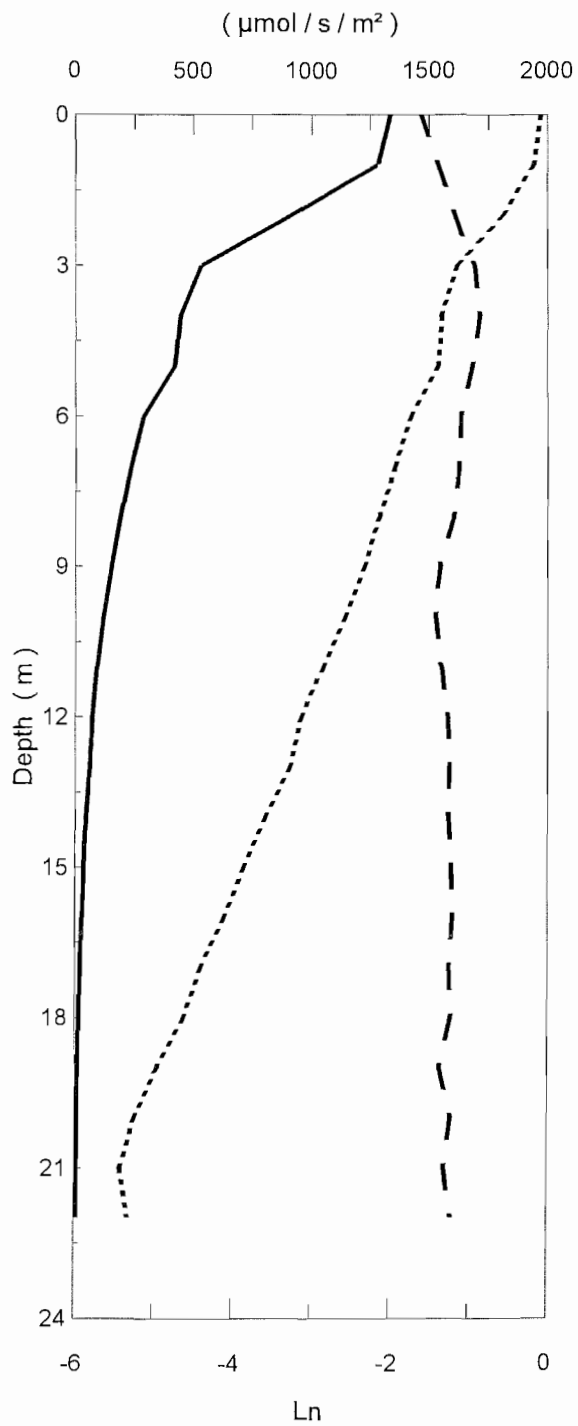


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1030	1184	-0.14
1	1066	1257	-0.16
2	336	1354	-1.39
3	336	1470	-1.48
4	255	1536	-1.80
5	218	1584	-1.99
6	184	1587	-2.15
7	130	1578	-2.50
8	100	1550	-2.74
9	78	1487	-2.94
10	63	1158	-2.92
11	49	687	-2.63
12	38	680	-2.88
13	30	719	-3.19
14	24	752	-3.44
15	17	749	-3.81
16	14	763	-4.02
17	12	774	-4.19
18	9	765	-4.42
19	7	737	-4.70
20	5	680	-4.83
21	7	640	-4.58

Survey 95-03

Station 22

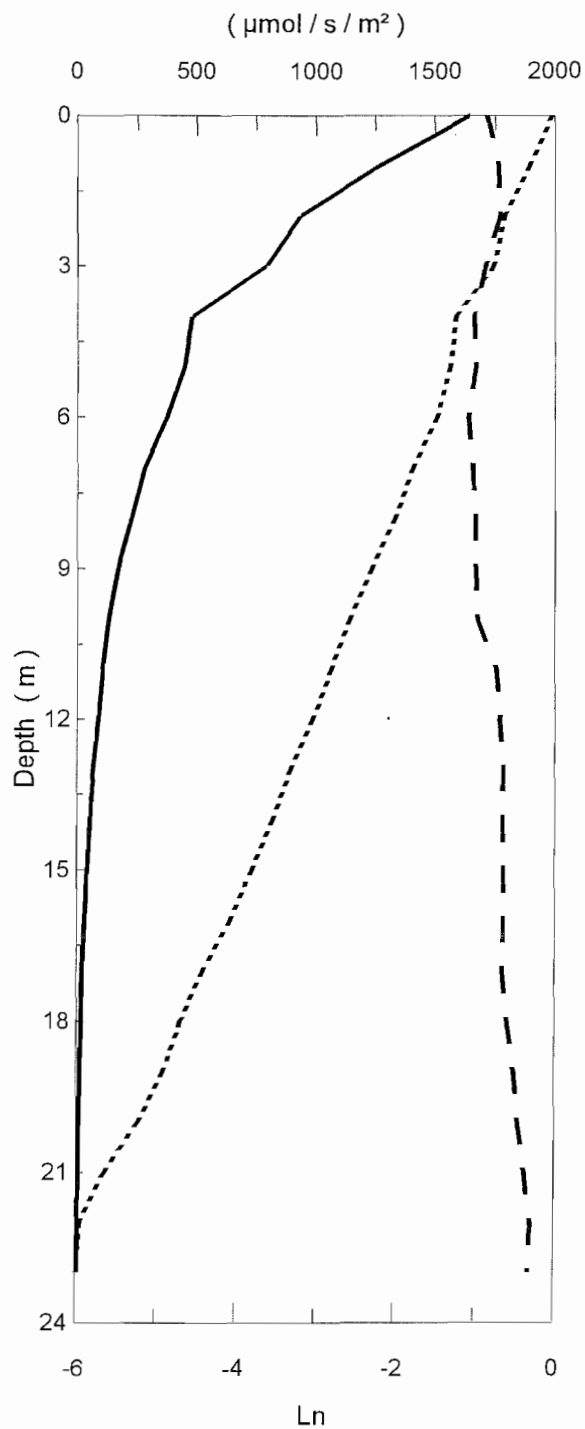


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1334	1463	-0.09
1	1279	1534	-0.18
2	914	1603	-0.56
3	530	1688	-1.16
4	441	1710	-1.36
5	418	1680	-1.39
6	286	1630	-1.74
7	233	1622	-1.94
8	189	1603	-2.14
9	150	1541	-2.33
10	116	1524	-2.57
11	89	1550	-2.86
12	68	1578	-3.14
13	60	1583	-3.27
14	43	1577	-3.60
15	34	1590	-3.86
16	26	1597	-4.11
17	19	1580	-4.41
18	16	1590	-4.62
19	11	1542	-4.96
20	8	1588	-5.25
21	7	1565	-5.42
22	8	1592	-5.33

Survey 95-03

Station 23

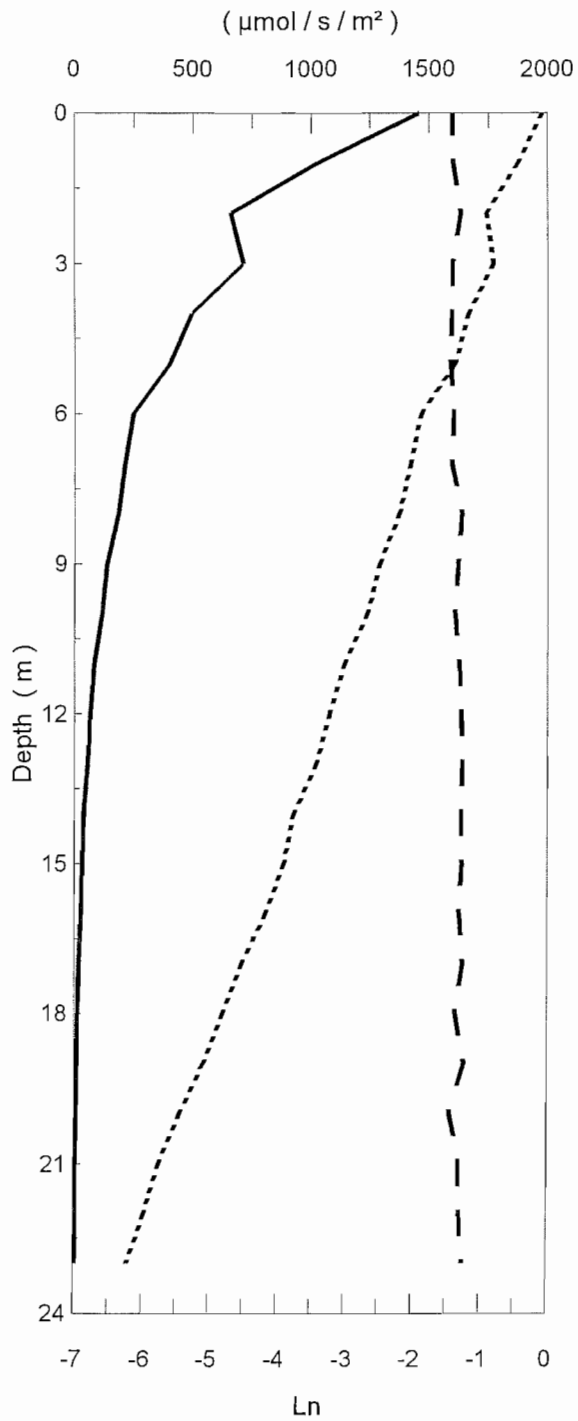


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1641	1716	-0.04
1	1264	1761	-0.33
2	933	1768	-0.64
3	789	1706	-0.77
4	479	1660	-1.24
5	445	1667	-1.32
6	371	1636	-1.48
7	277	1654	-1.79
8	224	1667	-2.01
9	168	1665	-2.30
10	128	1675	-2.57
11	106	1752	-2.81
12	85	1769	-3.04
13	64	1785	-3.33
14	51	1780	-3.55
15	40	1784	-3.81
16	30	1782	-4.08
17	22	1779	-4.42
18	16	1798	-4.70
19	13	1828	-4.92
20	10	1846	-5.23
21	7	1875	-5.66
22	5	1900	-5.96
23	5	1892	-6.00

Survey 95-03

Station 27

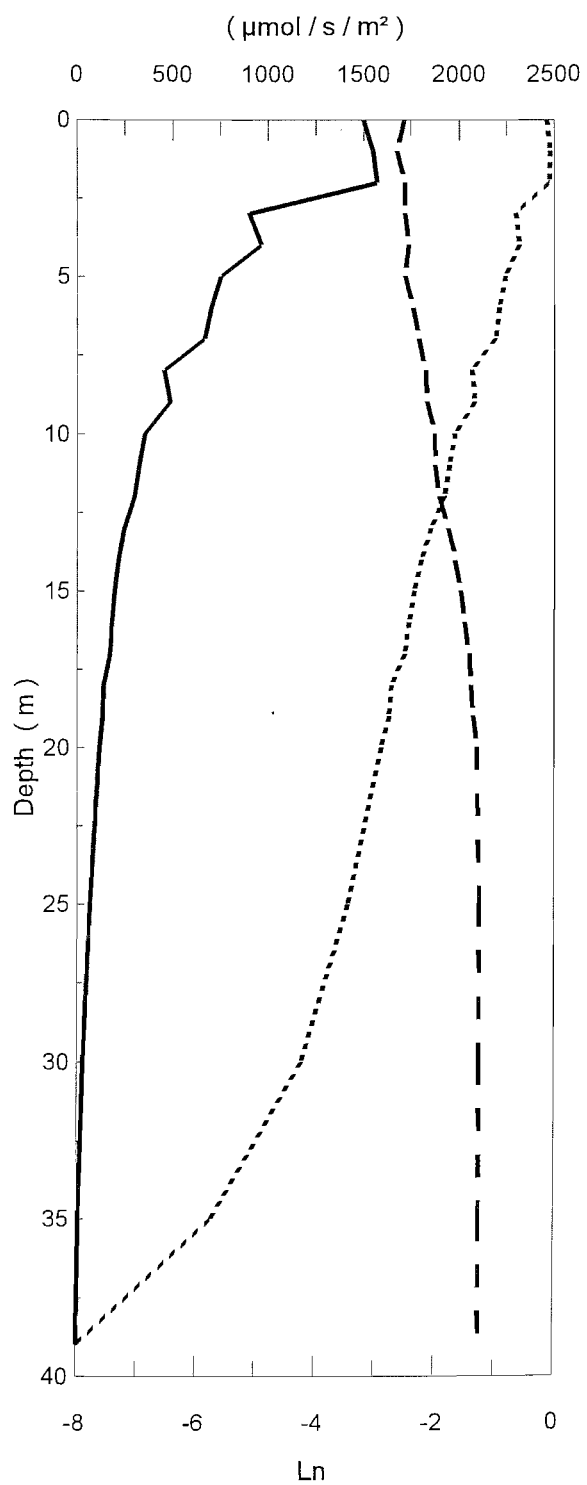


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1456	1595	-0.09
1	1023	1598	-0.45
2	655	1631	-0.91
3	712	1597	-0.81
4	492	1592	-1.17
5	400	1588	-1.38
6	246	1601	-1.87
7	210	1592	-2.03
8	182	1635	-2.20
9	135	1620	-2.48
10	112	1607	-2.67
11	80	1626	-3.01
12	65	1634	-3.22
13	53	1640	-3.43
14	38	1633	-3.75
15	33	1635	-3.91
16	25	1627	-4.17
17	18	1639	-4.54
18	13	1609	-4.80
19	10	1647	-5.09
20	7	1586	-5.44
21	5	1625	-5.76
22	4	1629	-5.97
23	3	1641	-6.22

Survey 95-03

Station 29

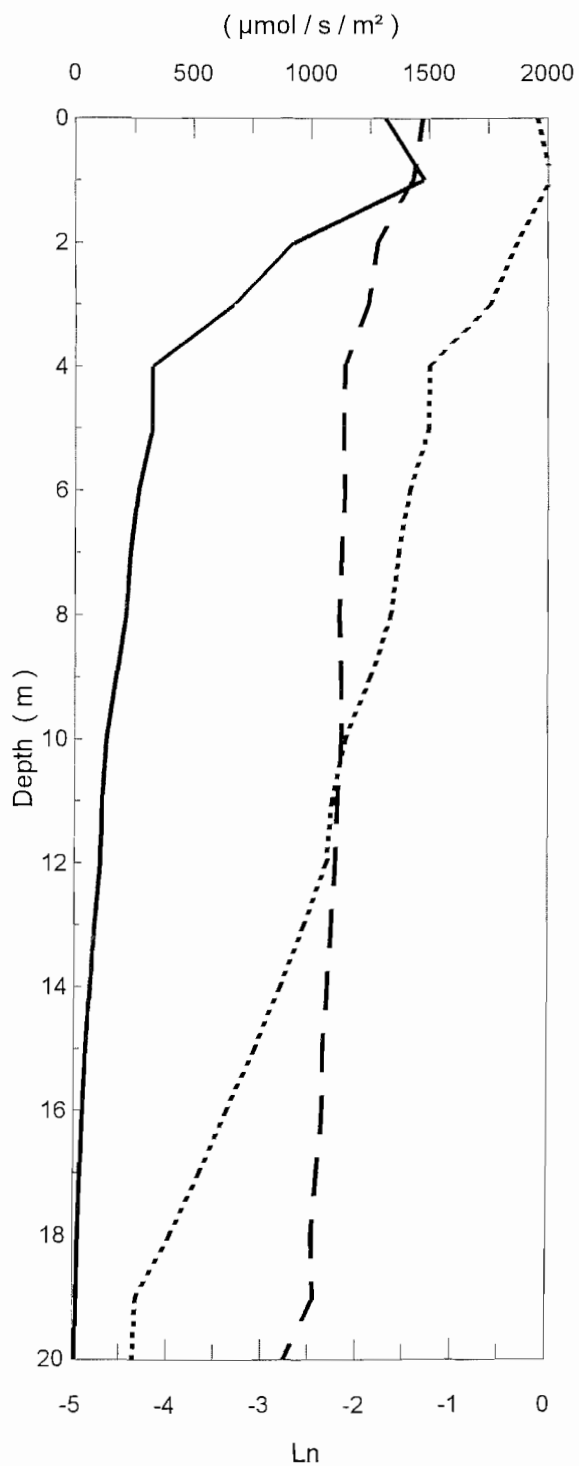


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1497	1712	-0.13
1	1547	1674	-0.08
2	1568	1713	-0.09
3	897	1714	-0.65
4	962	1734	-0.59
5	749	1715	-0.83
6	699	1759	-0.92
7	667	1789	-0.99
8	453	1821	-1.39
9	482	1834	-1.34
10	352	1869	-1.67
11	320	1873	-1.77
12	295	1893	-1.86
13	244	1940	-2.07
14	212	1977	-2.23
15	190	2007	-2.36
16	177	2029	-2.44
17	167	2051	-2.51
18	135	2063	-2.73
19	130	2074	-2.77
20	115	2092	-2.90
25	66	2106	-3.46
30	31	2106	-4.23
35	7	2108	-5.75
39	1	2107	-8.00

Survey 95-03

Station 32

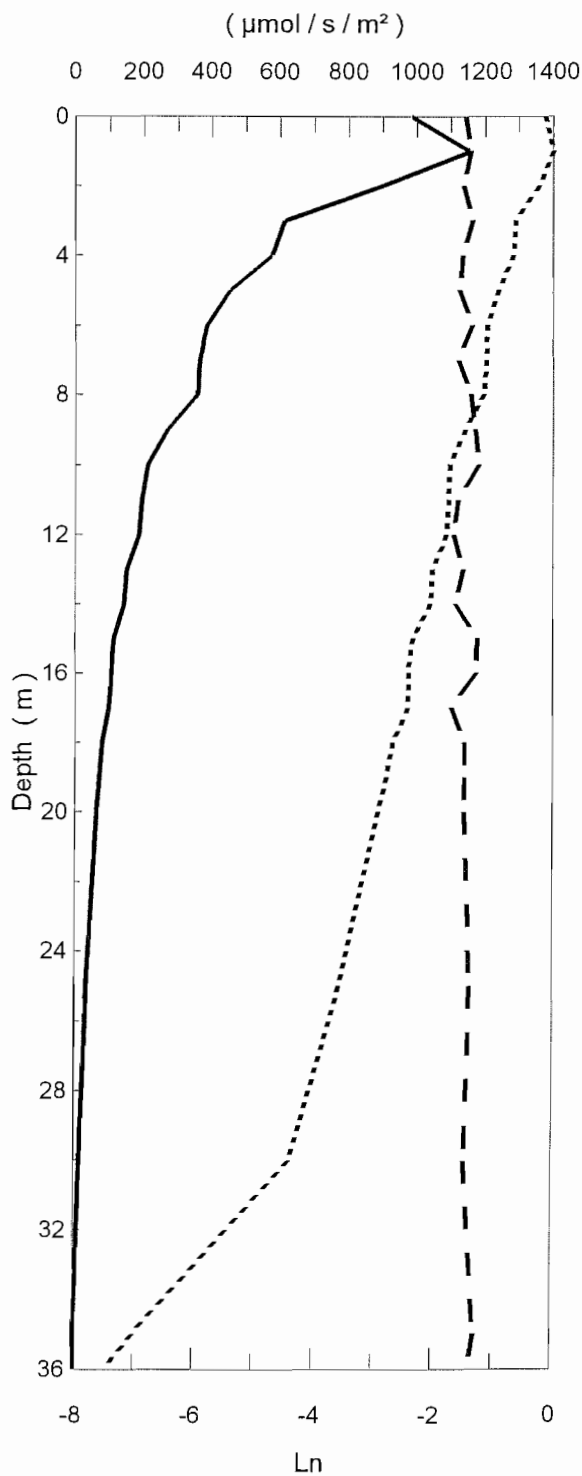


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1311	1468	-0.11
1	1474	1428	0.03
2	926	1280	-0.32
3	670	1238	-0.61
4	325	1141	-1.26
5	323	1136	-1.26
6	264	1139	-1.46
7	233	1127	-1.58
8	212	1116	-1.66
9	173	1129	-1.88
10	133	1128	-2.14
11	114	1109	-2.28
12	107	1102	-2.33
13	83	1088	-2.57
14	63	1068	-2.83
15	48	1053	-3.08
16	36	1052	-3.38
17	26	1031	-3.67
18	19	1009	-3.97
19	13	1016	-4.34
20	11	899	-4.36

Survey 95-03

Station 34

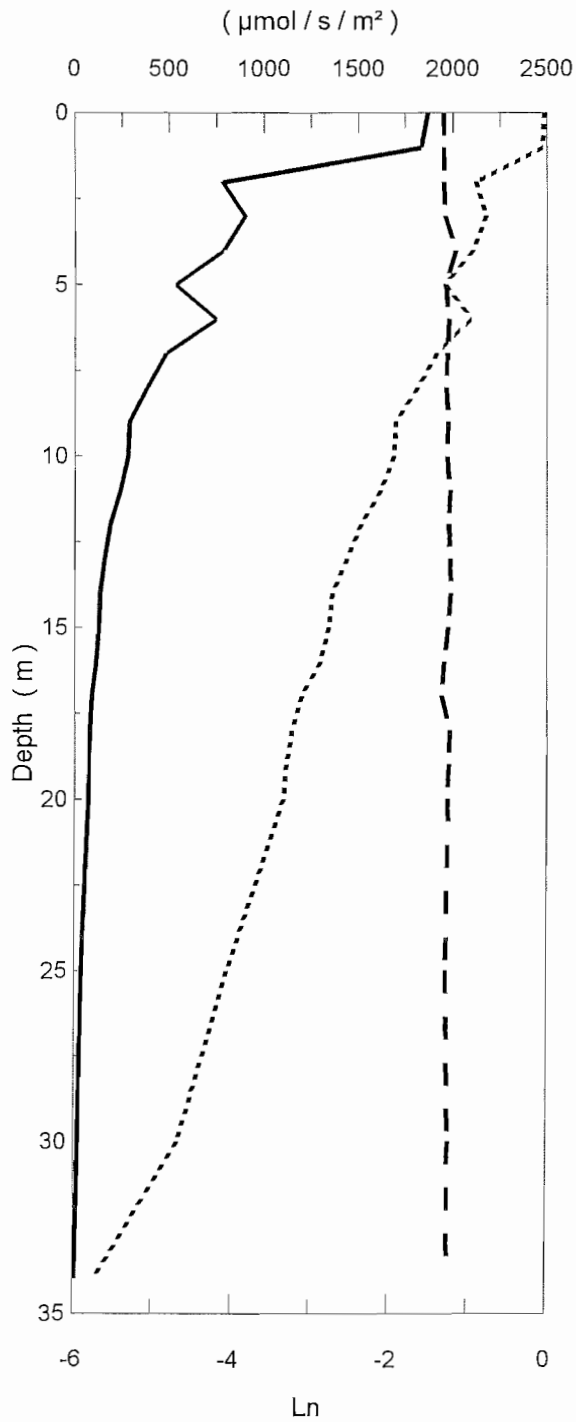


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	985	1141	-0.15
1	1155	1156	-0.00
2	896	1136	-0.24
3	612	1162	-0.64
4	576	1134	-0.68
5	453	1124	-0.91
6	384	1163	-1.11
7	362	1121	-1.13
8	356	1156	-1.18
9	268	1170	-1.47
10	209	1181	-1.73
11	193	1120	-1.76
12	185	1108	-1.79
13	149	1136	-2.03
14	142	1114	-2.06
15	111	1177	-2.36
16	104	1175	-2.43
17	96	1099	-2.43
18	77	1140	-2.69
19	70	1140	-2.80
20	61	1139	-2.93
25	32	1158	-3.58
30	14	1142	-4.40
35	1	1175	-7.01
36	1	1157	-7.48

Survey 95-03

Station 36

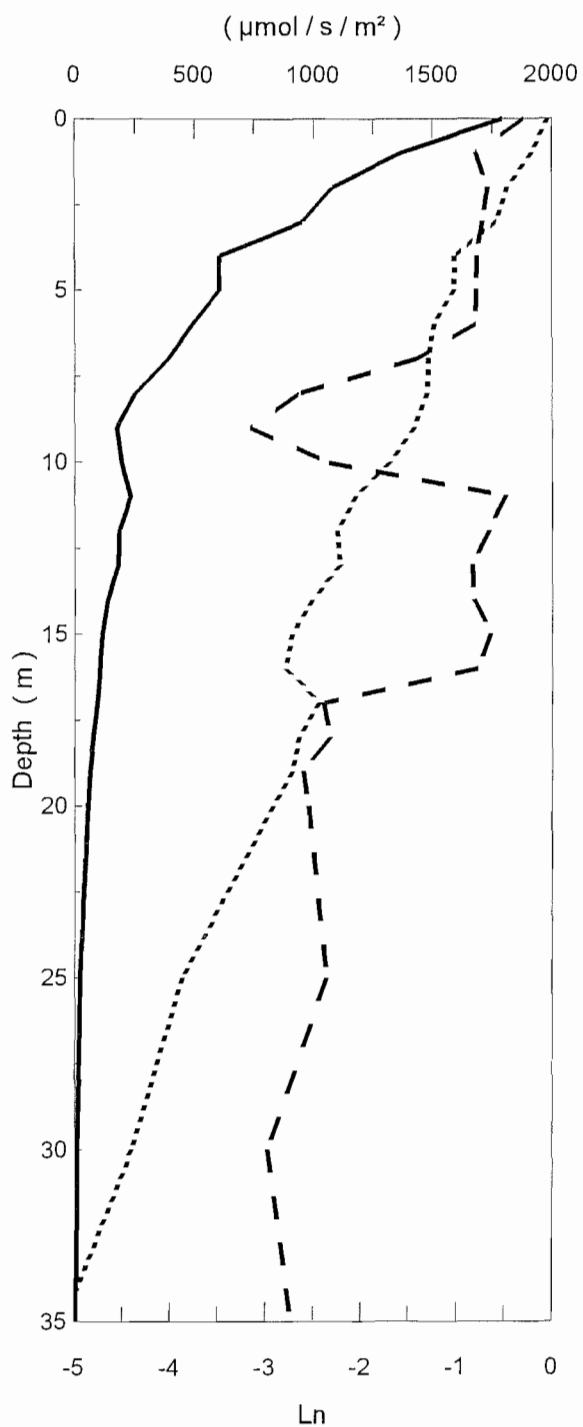


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1866	1951	-0.04
1	1834	1952	-0.06
2	781	1951	-0.92
3	897	1957	-0.78
4	787	2017	-0.94
5	535	1960	-1.30
6	749	1979	-0.97
7	484	1972	-1.40
8	382	1965	-1.64
9	287	1974	-1.93
10	280	1968	-1.95
11	239	1983	-2.11
12	185	1978	-2.37
13	156	1983	-2.54
14	130	1987	-2.73
15	123	1975	-2.77
16	109	1953	-2.88
17	86	1942	-3.12
18	77	1983	-3.25
19	72	1978	-3.32
20	69	1974	-3.35
25	34	1966	-4.06
30	18	1978	-4.68
34	6	1979	-5.73

Survey 95-03

Station 37



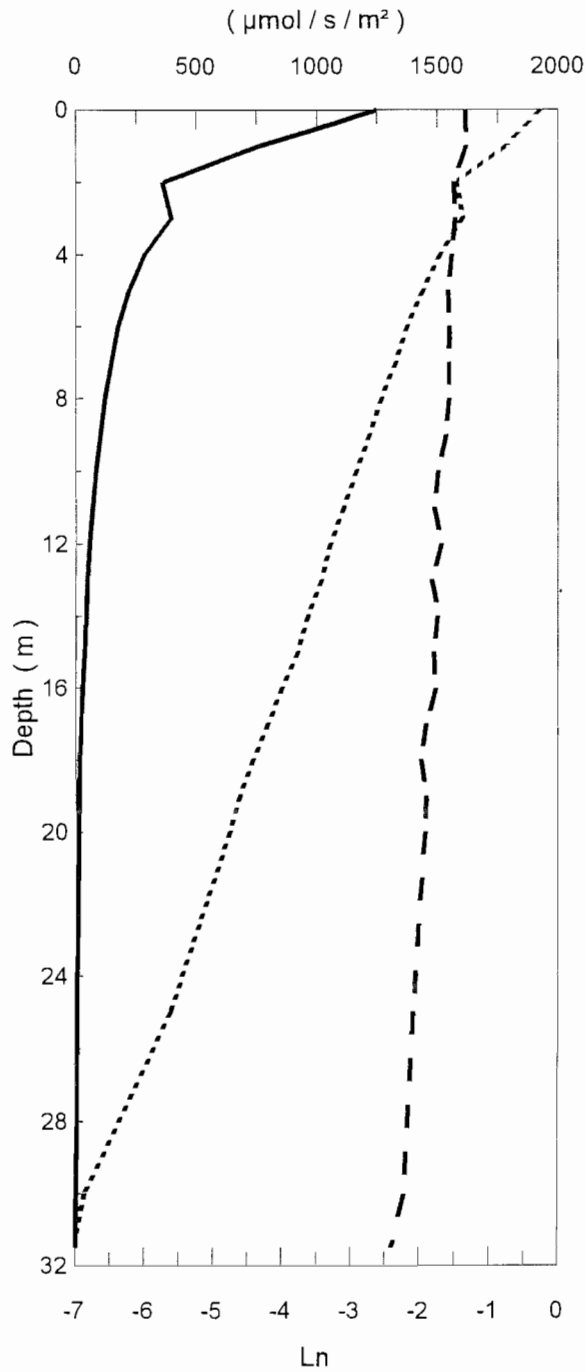
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1792	1880	-0.05
1	1362	1679	-0.21
2	1076	1729	-0.47
3	951	1706	-0.58
4	603	1683	-1.03
5	602	1680	-1.03
6	488	1681	-1.24
7	389	1433	-1.30
8	252	935	-1.31
9	173	731	-1.44
10	195	1067	-1.70
11	232	1801	-2.05
12	182	1731	-2.25
13	181	1666	-2.22
14	136	1671	-2.51
15	114	1743	-2.73
16	103	1689	-2.80
17	91	1042	-2.44
18	75	1070	-2.65
19	62	954	-2.73
20	53	979	-2.92
25	22	1055	-3.88
30	10	806	-4.41
35	6	907	-5.10

Appendix 6.4 Survey 95-04 irradiance ($\mu\text{mol/s/m}^2$) profiles.

Survey 95-04

Station 2



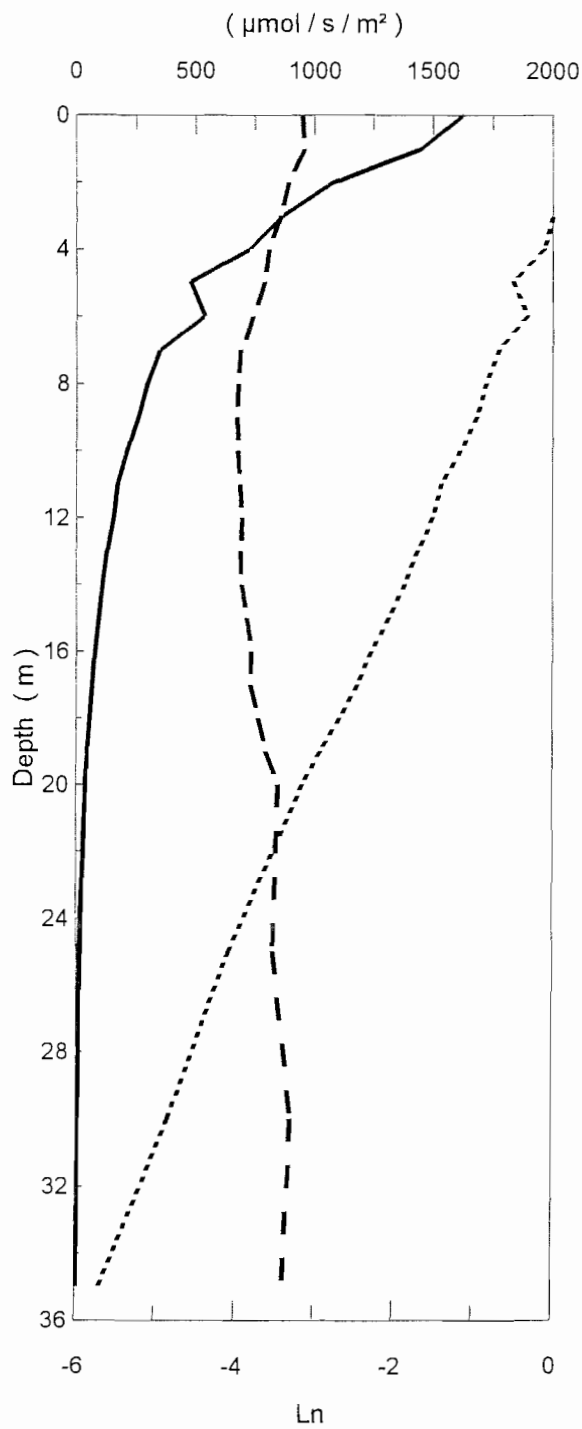
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water ($\mu\text{mol/s/m}^2$)	Irradiance* Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1249	1615	-0.26
1	758	1617	-0.76
2	356	1567	-1.48
3	394	1573	-1.38
4	281	1559	-1.71
5	217	1542	-1.96
6	173	1549	-2.19
7	146	1544	-2.36
8	118	1544	-2.57
9	100	1534	-2.73
10	81	1501	-2.92
11	66	1486	-3.12
12	55	1515	-3.31
13	47	1478	-3.44
14	39	1500	-3.64
15	34	1484	-3.78
16	27	1495	-4.01
17	22	1455	-4.21
18	17	1434	-4.42
19	14	1454	-4.62
20	12	1448	-4.76
25	5	1400	-5.63
30	1	1364	-6.87
31.5	1	1313	-7.02

* Manually recorded

Survey 95-04

Station 4



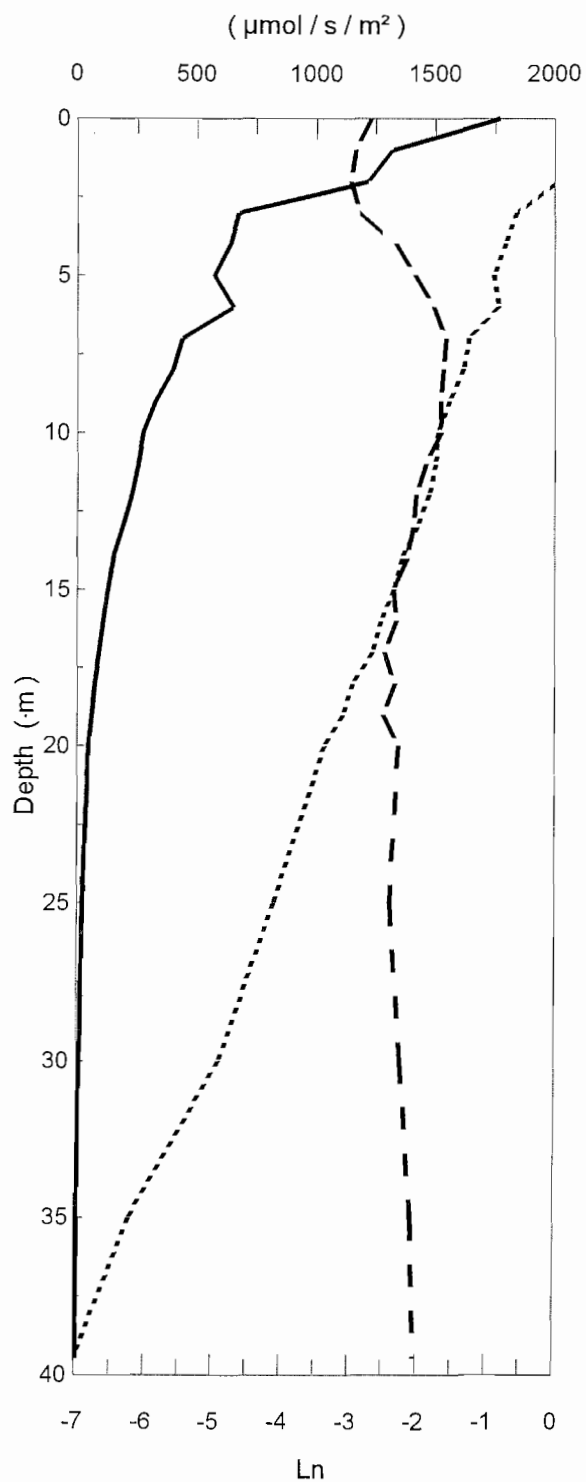
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* ($\mu\text{mol}/\text{s}/\text{m}^2$)	Irradiance* ($\mu\text{mol}/\text{s}/\text{m}^2$)	Ln (Water / Sky)
0	1623	946	0.54
1	1448	953	0.42
2	1074	887	0.19
3	863	855	0.01
4	725	807	-0.11
5	476	788	-0.50
6	534	742	-0.33
7	349	686	-0.68
8	293	675	-0.83
9	257	671	-0.96
10	211	675	-1.16
11	169	683	-1.40
12	153	692	-1.51
13	126	687	-1.70
14	108	693	-1.86
15	91	713	-2.06
16	75	732	-2.28
17	63	730	-2.45
18	52	766	-2.68
19	42	793	-2.93
20	36	845	-3.15
25	14	825	-4.08
30	7	902	-4.84
35	3	872	-5.71

* Manually recorded

Survey 95-04

Station 5



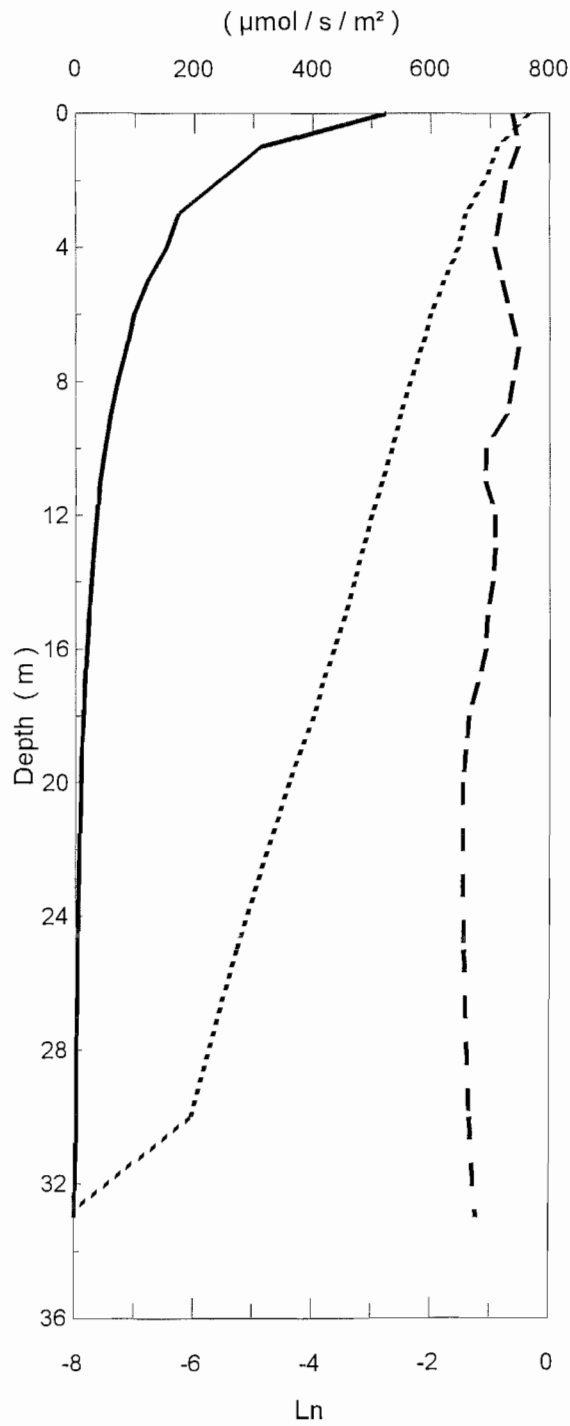
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* (Water) ($\mu\text{mol/s/m}^2$)	Irradiance* (Sky) ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1769	1228	0.37
1	1318	1163	0.13
2	1216	1145	0.06
3	673	1182	-0.56
4	637	1330	-0.74
5	571	1408	-0.90
6	652	1490	-0.83
7	434	1541	-1.27
8	397	1530	-1.35
9	323	1519	-1.55
10	273	1522	-1.72
11	251	1458	-1.76
12	223	1416	-1.85
13	186	1406	-2.02
14	146	1380	-2.25
15	125	1322	-2.36
16	104	1336	-2.55
17	90	1287	-2.67
18	68	1329	-2.97
19	57	1282	-3.11
20	46	1345	-3.37
25	21	1308	-4.12
30	10	1355	-4.92
35	3	1402	-6.23
39.5	1	1417	-7.02

* Manually recorded

Survey 95-04

Station 7



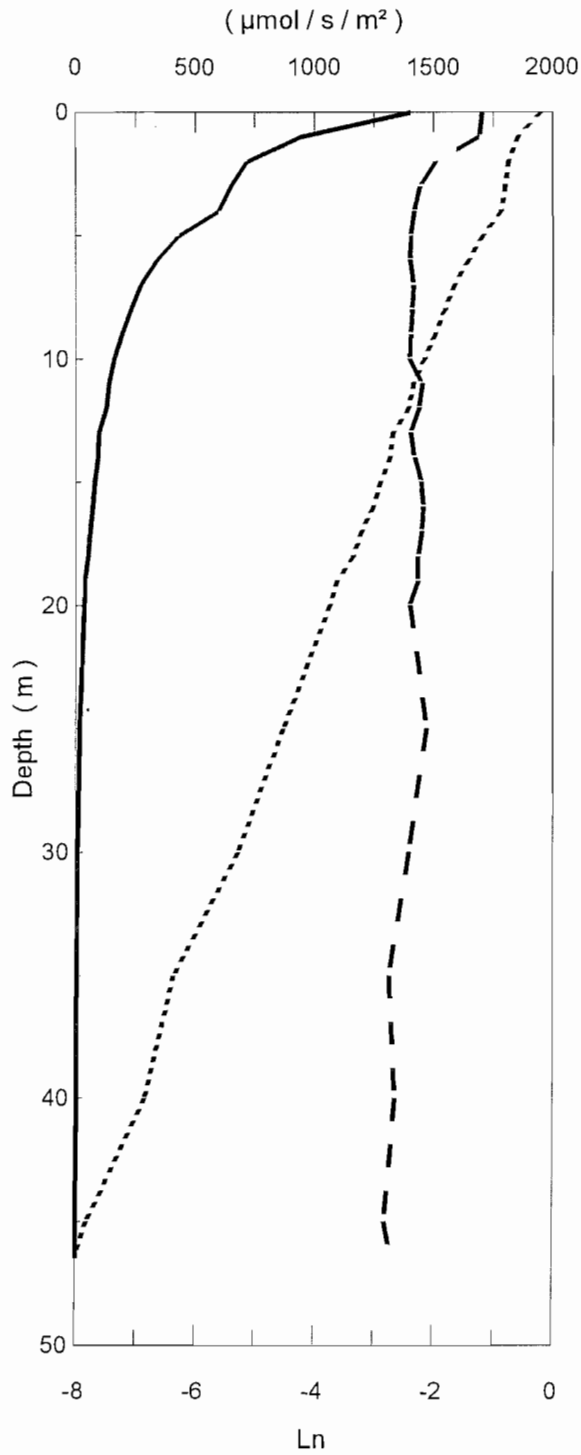
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water ($\mu\text{mol}/\text{s}/\text{m}^2$)	Irradiance* Sky ($\mu\text{mol}/\text{s}/\text{m}^2$)	Ln (Water / Sky)
0	524	737	-0.34
1	311	747	-0.88
2	241	725	-1.10
3	173	716	-1.42
4	152	706	-1.54
5	120	720	-1.79
6	97	732	-2.02
7	86	747	-2.16
8	70	738	-2.35
9	59	727	-2.52
10	48	691	-2.66
11	40	690	-2.84
12	35	708	-3.00
13	30	708	-3.16
14	26	705	-3.30
15	22	694	-3.47
16	18	691	-3.66
17	15	678	-3.83
18	12	663	-3.99
19	10	658	-4.21
20	8	653	-4.41
25	3	655	-5.30
30	2	664	-6.05
33	0	676	-8.17

* Manually recorded

Survey 95-04

Station 11



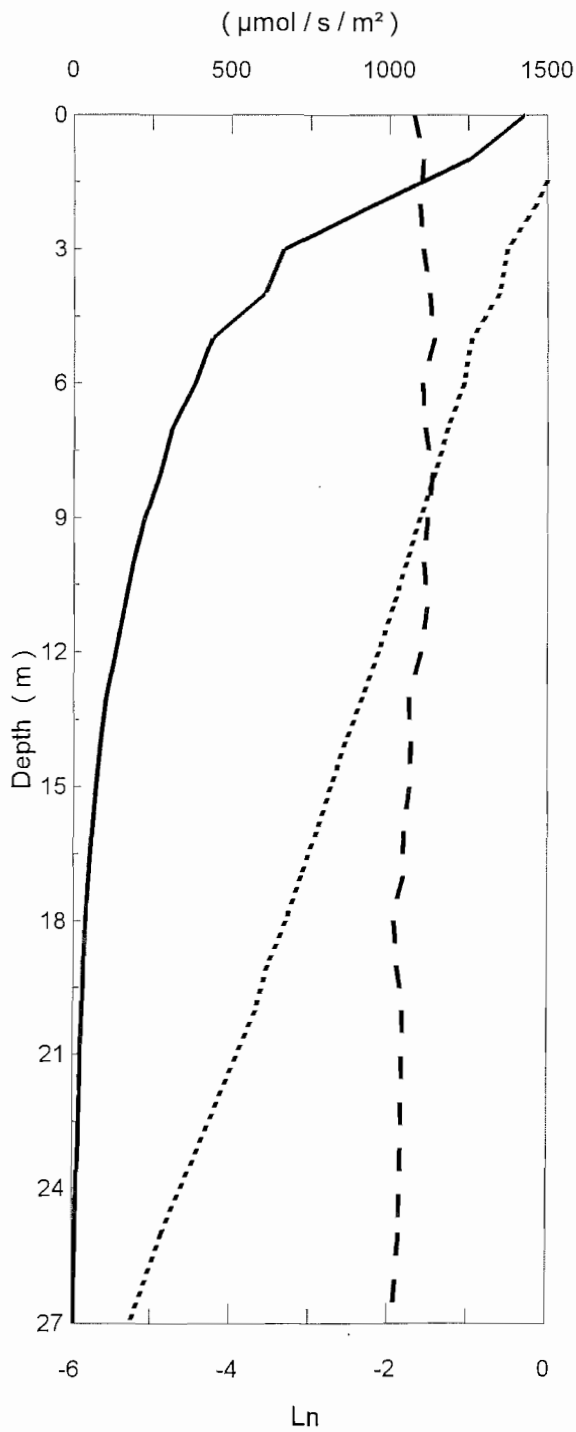
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m²)	Irradiance* Sky (µmol/s/m²)	Ln (Water / Sky)
0	1400	1700	-0.19
1	942	1692	-0.59
2	714	1508	-0.75
3	645	1438	-0.80
4	595	1414	-0.87
5	430	1400	-1.18
6	337	1397	-1.42
7	270	1413	-1.66
8	228	1407	-1.82
9	192	1401	-1.99
10	160	1396	-2.17
11	138	1447	-2.35
12	126	1437	-2.43
13	94	1397	-2.70
14	92	1418	-2.74
15	79	1445	-2.91
16	71	1452	-3.02
17	58	1448	-3.22
18	50	1430	-3.36
19	38	1431	-3.63
20	33	1397	-3.75
25	16	1469	-4.53
30	7	1394	-5.28
35	2	1311	-6.36
40	1	1336	-6.84
45	1	1293	-7.82
46.5	0	1323	-8.02

* Manually recorded

Survey 95-04

Station 12



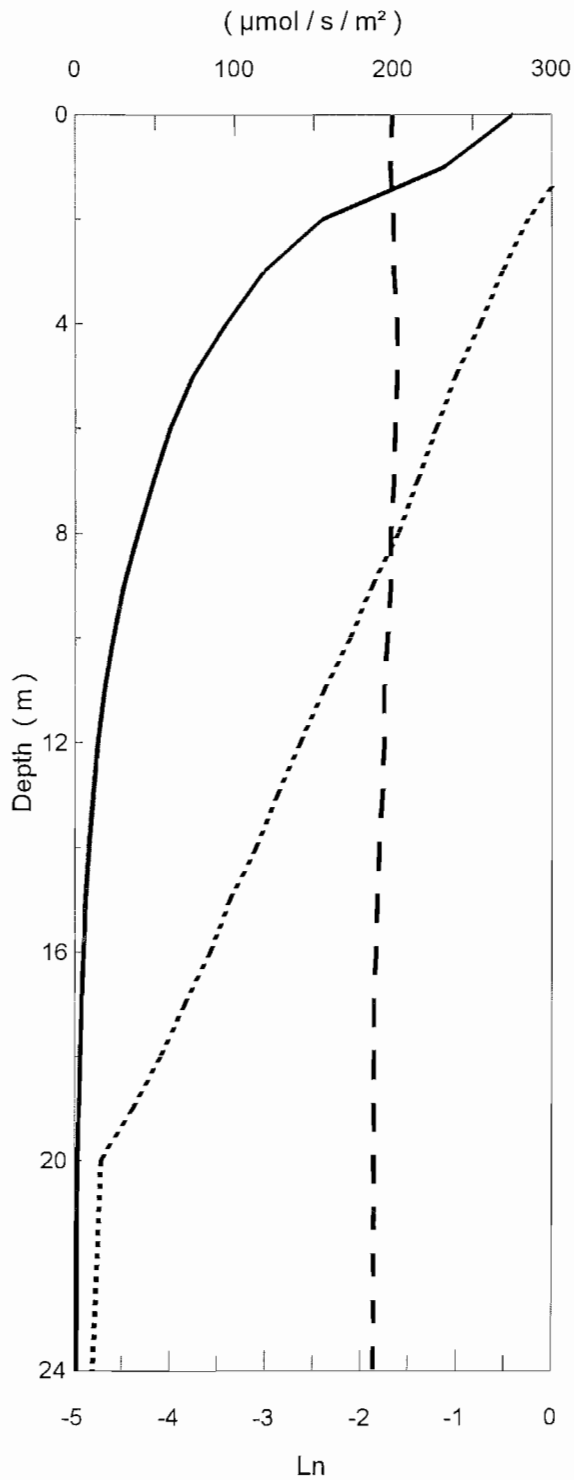
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water ($\mu\text{mol/s/m}^2$)	Irradiance* Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1426	1078	0.28
1	1250	1105	0.12
2	954	1096	-0.14
3	664	1106	-0.51
4	604	1125	-0.62
5	435	1143	-0.97
6	383	1103	-1.06
7	311	1109	-1.27
8	271	1134	-1.43
9	223	1121	-1.61
10	185	1107	-1.79
11	158	1118	-1.96
12	128	1097	-2.15
13	102	1060	-2.34
14	83	1068	-2.56
15	68	1060	-2.75
16	56	1047	-2.93
17	46	1042	-3.12
18	37	1015	-3.32
19	30	1024	-3.54
20	26	1042	-3.68
25	8	1035	-4.87
27	5	1014	-5.26

* Manually recorded

Survey 95-04

Station 14



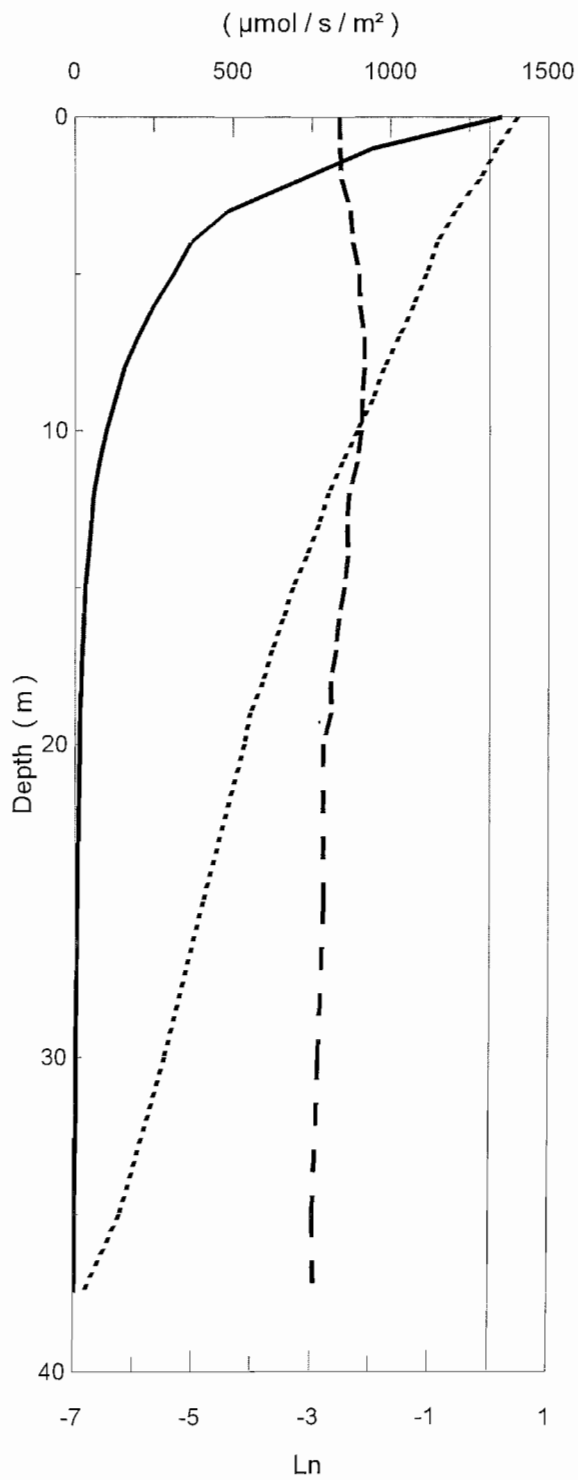
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water ($\mu\text{mol/s/m}^2$)	Irradiance* Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	275	199	0.32
1	232	198	0.16
2	155	200	-0.25
3	118	200	-0.53
4	94	202	-0.76
5	73	202	-1.01
6	59	201	-1.22
7	49	200	-1.42
8	39	198	-1.62
9	30	198	-1.89
10	23	196	-2.13
11	18	194	-2.40
12	14	194	-2.65
13	11	193	-2.89
14	9	191	-3.11
15	6	190	-3.38
16	5	189	-3.59
17	4	188	-3.86
18	3	188	-4.11
19	2	188	-4.40
20	2	188	-4.73
24	2	188	-4.81

* Manually recorded

Survey 95-04

Station 17



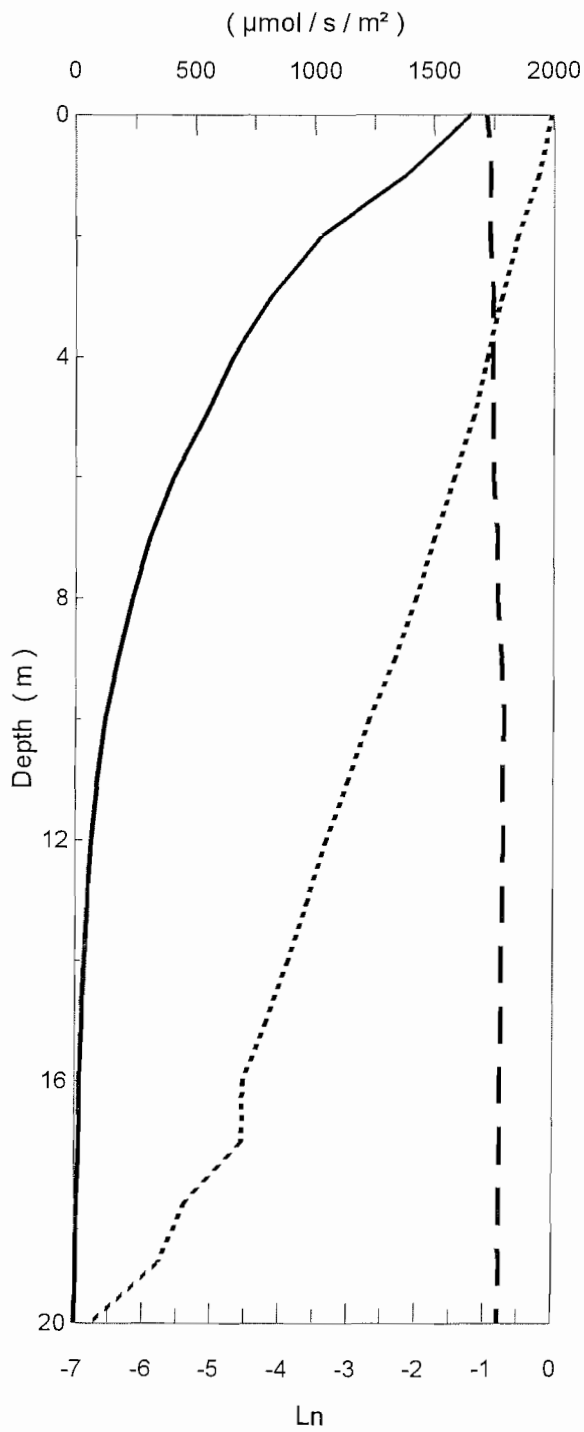
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water ($\mu\text{mol/s/m}^2$)	Irradiance* Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1352	836	0.48
1	944	837	0.12
2	711	842	-0.17
3	483	870	-0.59
4	364	878	-0.88
5	309	899	-1.07
6	247	900	-1.29
7	197	915	-1.54
8	153	915	-1.79
9	125	908	-1.98
10	97	904	-2.23
11	74	893	-2.49
12	57	867	-2.72
13	48	860	-2.89
14	39	861	-3.09
15	30	852	-3.33
16	25	833	-3.50
17	21	825	-3.68
18	18	810	-3.83
19	14	810	-4.05
20	12	785	-4.14
25	6	788	-4.84
30	3	771	-5.49
35	1	755	-6.23
37.5	1	759	-6.84

* Manually recorded

Survey 95-04

Station 19



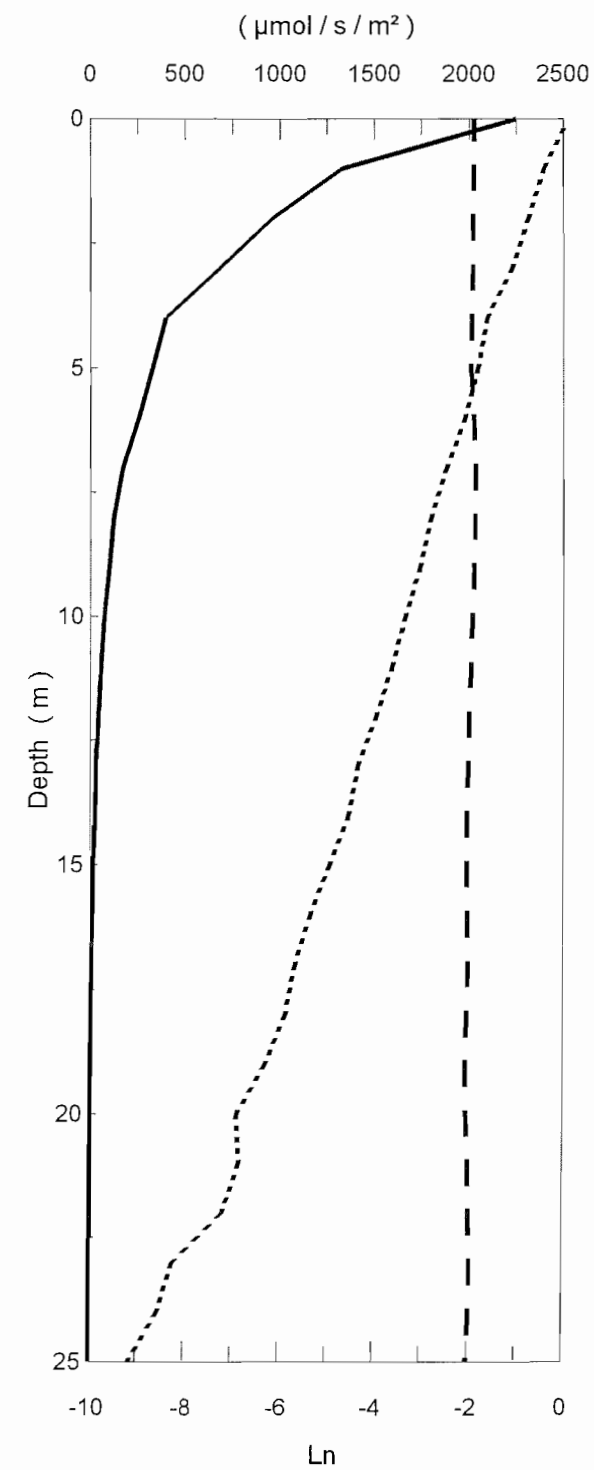
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m²)	Irradiance* Sky (µmol/s/m²)	Ln (Water / Sky)
0	1650	1719	-0.04
1	1378	1733	-0.23
2	1024	1728	-0.52
3	816	1744	-0.76
4	654	1742	-0.98
5	539	1745	-1.17
6	406	1746	-1.46
7	309	1764	-1.74
8	234	1764	-2.02
9	174	1783	-2.33
10	120	1793	-2.70
11	89	1787	-3.00
12	64	1791	-3.33
13	49	1785	-3.60
14	37	1782	-3.89
15	27	1783	-4.20
16	19	1779	-4.54
17	19	1781	-4.56
18	8	1776	-5.38
19	6	1776	-5.77
20	2	1774	-6.76
25	0	1767	ERR
30	0	1770	ERR
31	0	1776	ERR

* Manually recorded

Survey 95-04

Station 23



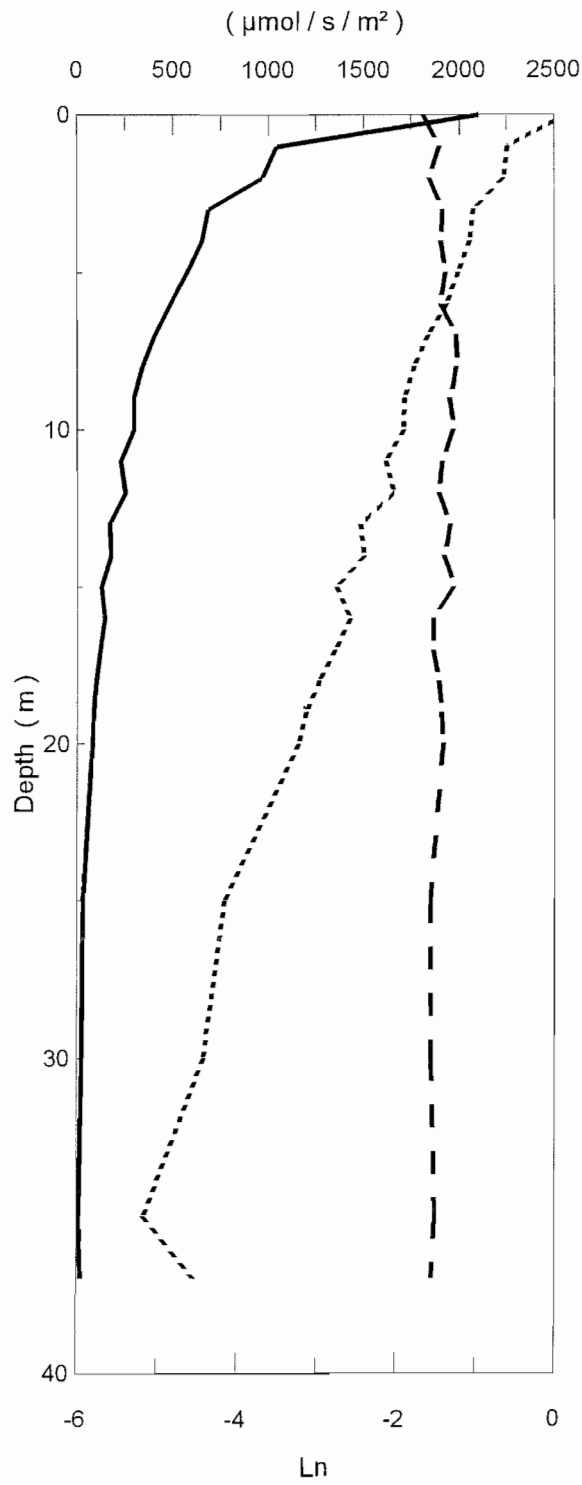
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m ²)	Irradiance* Sky (µmol/s/m ²)	Ln (Water / Sky)
0	2246	2025	0.10
1	1328	2022	-0.42
2	958	2018	-0.75
3	682	2020	-1.09
4	394	2013	-1.63
5	325	2009	-1.82
6	251	2023	-2.09
7	170	2032	-2.48
8	122	2030	-2.81
9	97	2027	-3.04
10	71	2016	-3.34
11	53	2008	-3.63
12	38	1999	-3.96
13	26	1994	-4.35
14	21	1989	-4.54
15	14	1988	-4.95
16	9	1992	-5.35
17	7	1995	-5.68
18	6	1993	-5.88
19	4	1984	-6.29
20	2	1988	-6.89
21	2	1999	-6.84
22	2	2001	-7.19
23	1	2010	-8.24
24	0	2005	-8.56
25	0	1996	-9.16

* Manually recorded

Survey 95-04

Station 24



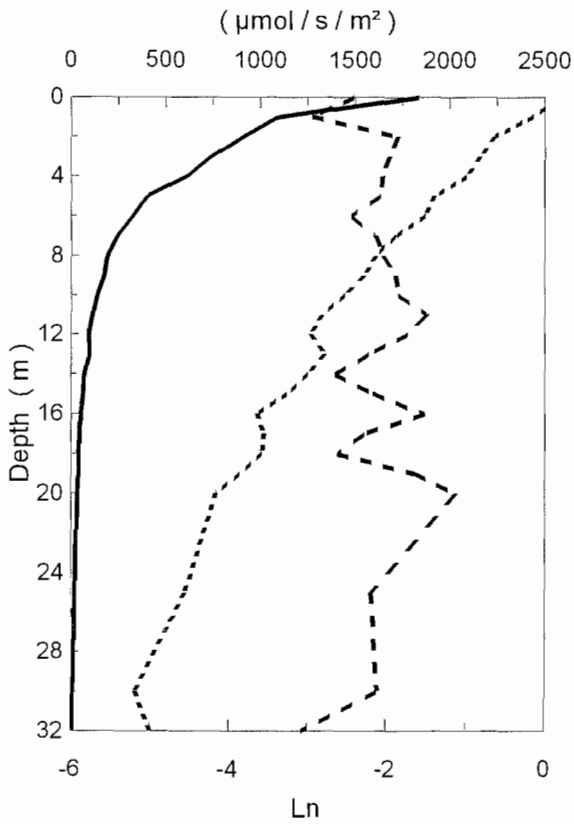
Depth (m)	Irradiance* Water ($\mu\text{mol/s/m}^2$)	Irradiance* Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	2104	1810	0.15
1	1041	1892	-0.60
2	965	1840	-0.65
3	684	1912	-1.03
4	648	1901	-1.08
5	570	1924	-1.22
6	482	1896	-1.37
7	401	1982	-1.60
8	338	1986	-1.77
9	293	1949	-1.89
10	294	1969	-1.90
11	226	1907	-2.13
12	249	1891	-2.03
13	169	1948	-2.44
14	174	1919	-2.40
15	126	1967	-2.75
16	141	1859	-2.58
17	117	1859	-2.77
18	97	1891	-2.97
19	83	1902	-3.13
20	76	1911	-3.22
25	29	1846	-4.16
30	22	1849	-4.43
35	11	1871	-5.17
37	20	1854	-4.54

Irradiance - Water
 Irradiance - Sky Ln (Water Irrad / Sky Irrad)

* Manually recorded

Survey 95-04

Station 25



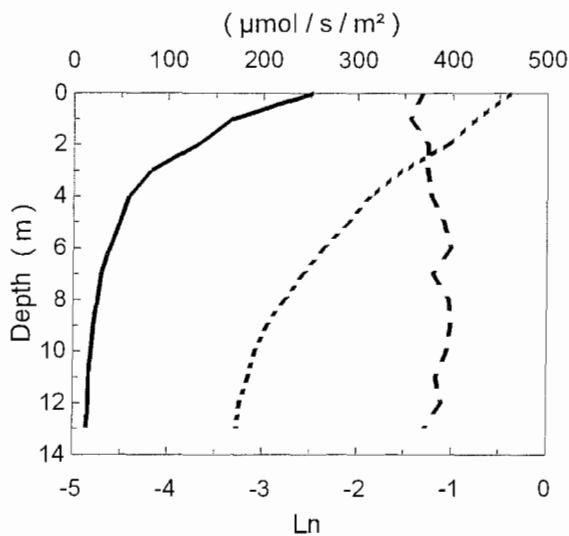
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m²)	Irradiance* Sky (µmol/s/m²)	Ln (Water / Sky)
0	1833	1494	0.20
1	1094	1269	-0.15
2	907	1722	-0.64
3	740	1680	-0.82
4	609	1641	-0.99
5	399	1630	-1.41
6	325	1477	-1.51
7	242	1606	-1.89
8	192	1648	-2.15
9	174	1714	-2.29
10	136	1725	-2.54
11	112	1879	-2.82
12	91	1775	-2.97
13	95	1570	-2.80
14	69	1393	-3.01
15	60	1593	-3.27
16	48	1865	-3.65
17	44	1545	-3.56
18	39	1404	-3.58
19	38	1810	-3.87
20	31	2030	-4.17
25	17	1584	-4.56
30	9	1614	-5.19
32	8	1212	-5.00

* Manually recorded

Survey 95-04

Station 31



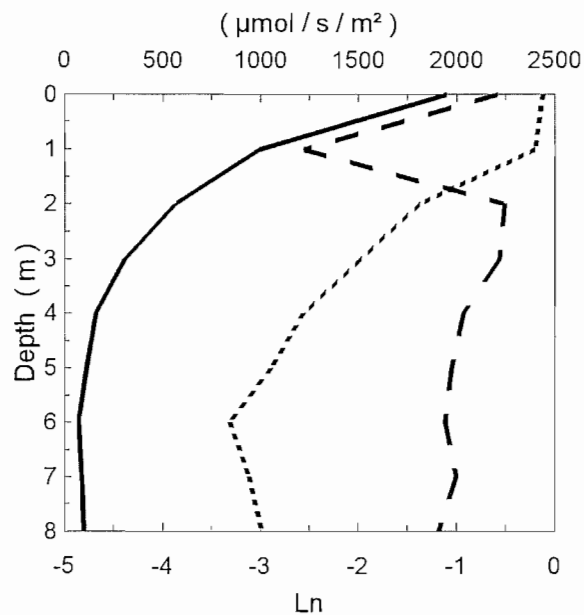
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m²)	Irradiance* Sky (µmol/s/m²)	Ln (Water / Sky)
0	252	368	-0.38
1	167	355	-0.75
2	131	374	-1.05
3	81	373	-1.53
4	58	378	-1.87
5	48	391	-2.09
6	37	398	-2.36
7	29	379	-2.57
8	25	396	-2.78
9	21	398	-2.96
10	18	394	-3.08
11	16	383	-3.15
12	15	388	-3.25
13	14	371	-3.27

* Manually recorded

Survey 95-04

Station 33



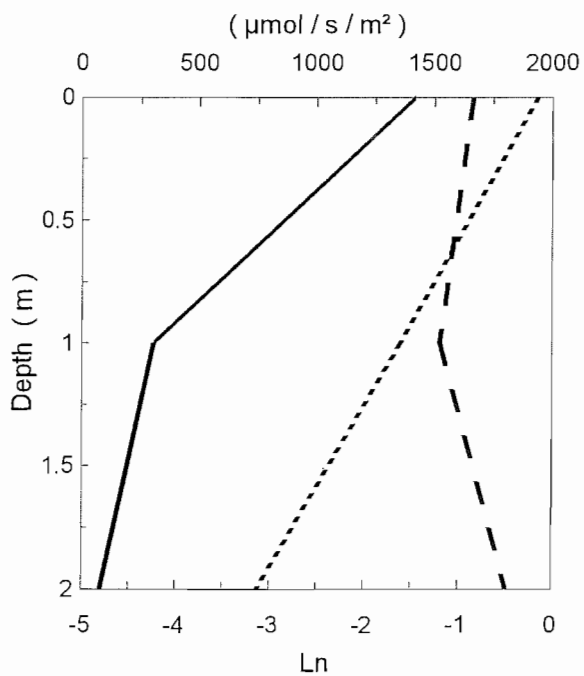
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m²)	Irradiance* Sky (µmol/s/m²)	Ln (Water / Sky)
0	1946	2207	-0.13
1	993	1220	-0.21
2	564	2243	-1.38
3	304	2215	-1.99
4	156	2032	-2.57
5	109	1973	-2.90
6	70	1941	-3.32
7	88	1996	-3.12
8	96	1905	-2.99

* Manually recorded

Survey 95-04

Station 35



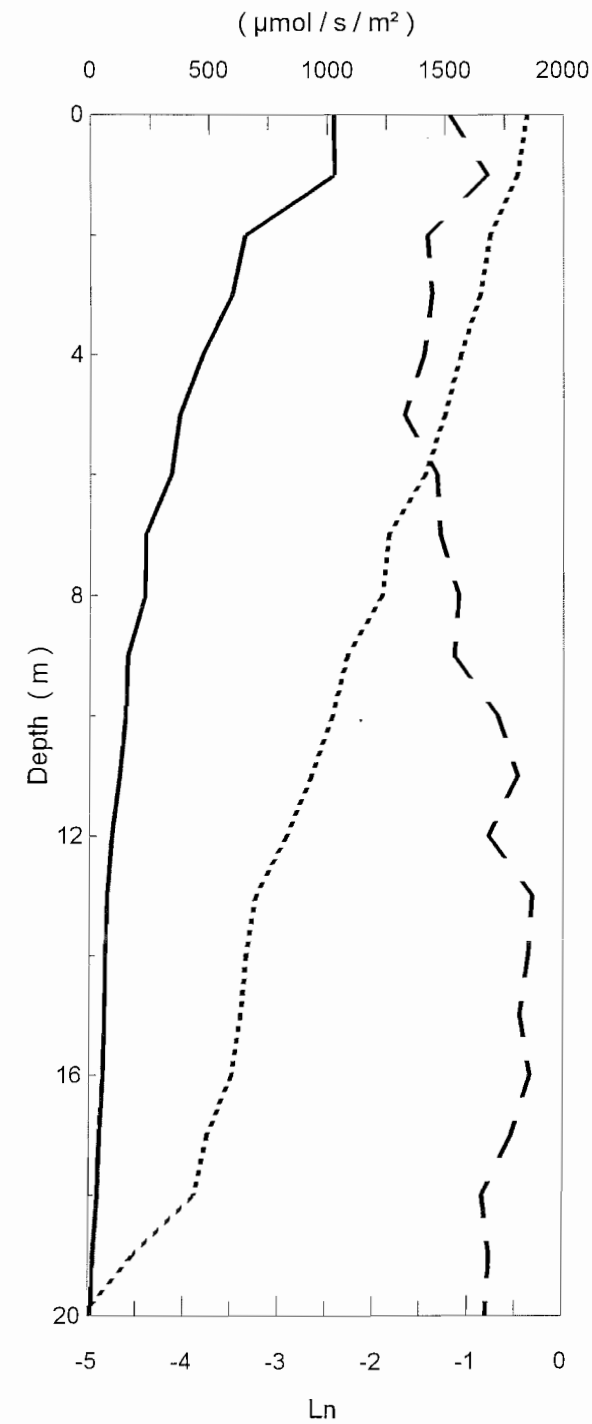
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance* Water (µmol/s/m²)	Irradiance* Sky (µmol/s/m²)	Ln (Water / Sky)
0	1418	1661	-0.16
1	302	1521	-1.62
2	78	1803	-3.14
3	0	1072	ERR
4	0	1616	ERR
5	0	1580	ERR
6	0	1715	ERR
7	0	1222	ERR
8	0	1774	ERR
9	0	1734	ERR

* Manually recorded

Survey 95-04

Station 39



— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

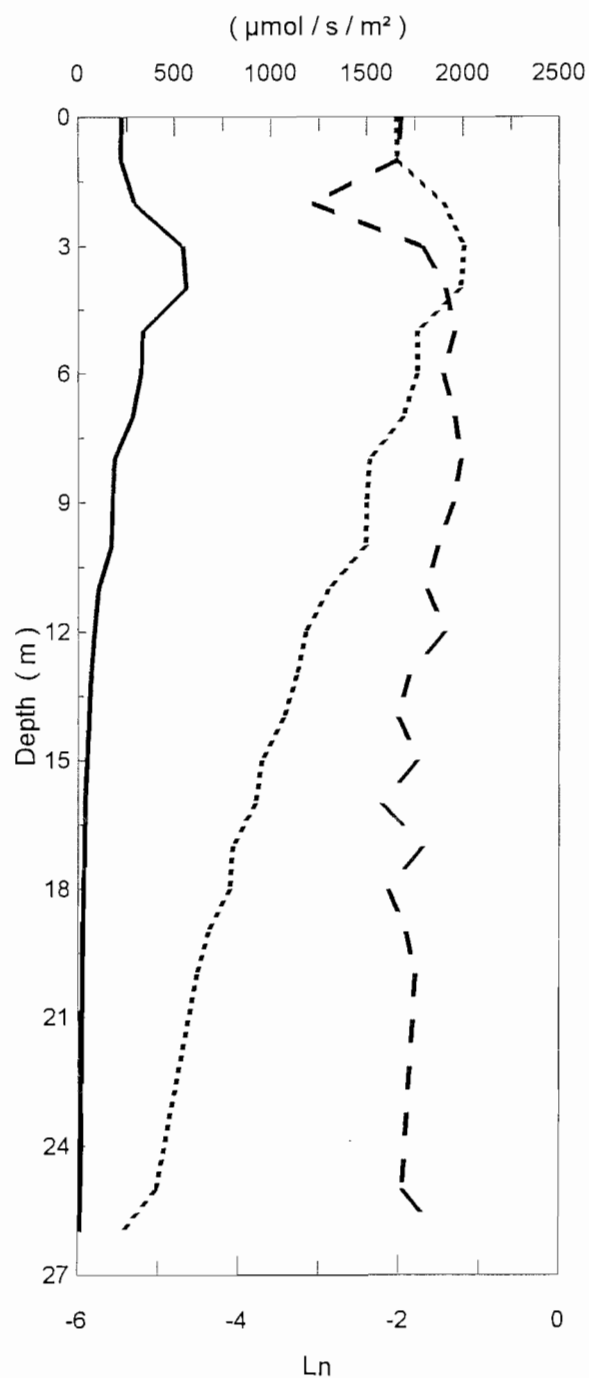
Depth (m)	Irradiance* (Water) ($\mu\text{mol/s/m}^2$)	Irradiance* (Sky) ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1028	1517	-0.39
1	1030	1677	-0.49
2	652	1422	-0.78
3	597	1441	-0.88
4	474	1409	-1.09
5	375	1326	-1.26
6	339	1463	-1.46
7	233	1477	-1.85
8	228	1555	-1.92
9	156	1535	-2.29
10	149	1720	-2.45
11	125	1804	-2.67
12	90	1684	-2.92
13	72	1867	-3.25
14	65	1851	-3.35
15	60	1814	-3.41
16	56	1858	-3.50
17	42	1780	-3.76
18	34	1657	-3.89
19	18	1692	-4.54
20	11	1677	-5.05
25	0	1907	ERR
28	0	1369	ERR

* Manually recorded

Appendix 6.5 Survey 95-05 irradiance ($\mu\text{mol/s/m}^2$) profiles.

Survey 95-05

Station 4

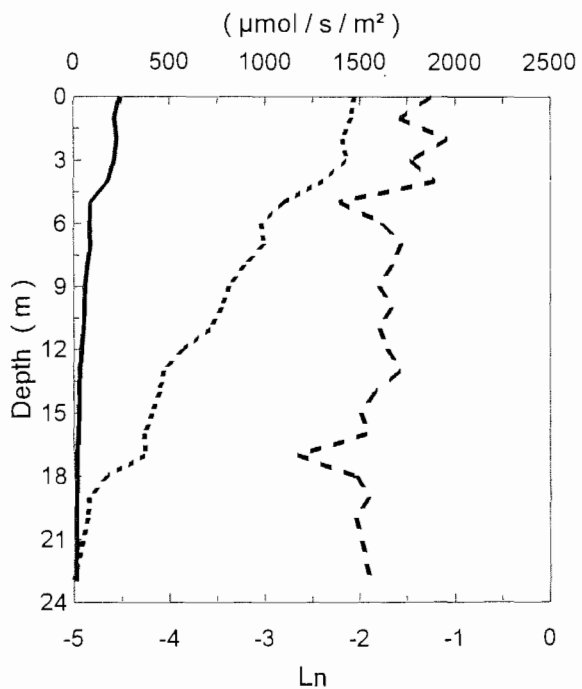


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	221	1677	-2.03
1	219	1662	-2.03
2	287	1216	-1.44
3	541	1787	-1.20
4	557	1909	-1.23
5	333	1954	-1.77
6	321	1893	-1.77
7	279	1956	-1.95
8	186	1984	-2.37
9	175	1949	-2.41
10	167	1868	-2.42
11	101	1812	-2.89
12	81	1906	-3.16
13	65	1716	-3.28
14	53	1665	-3.44
15	43	1768	-3.71
16	35	1578	-3.80
17	31	1790	-4.07
18	26	1615	-4.12
19	21	1702	-4.39
20	19	1749	-4.52
25	11	1683	-5.03
26	8	1866	-5.45

Survey 95-05

Station 5

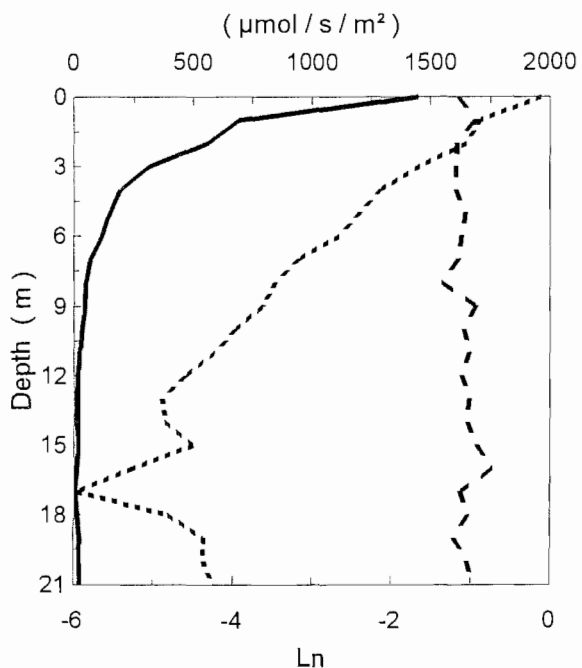


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	237	1875	-2.07
1	210	1708	-2.10
2	220	1962	-2.19
3	206	1760	-2.14
4	174	1895	-2.39
5	84	1388	-2.81
6	76	1612	-3.05
7	84	1717	-3.01
8	66	1669	-3.23
9	54	1601	-3.39
10	53	1668	-3.45
11	45	1604	-3.58
12	34	1643	-3.87
13	29	1713	-4.07
14	26	1577	-4.12
15	23	1504	-4.20
16	21	1537	-4.27
17	16	1168	-4.27
18	14	1481	-4.67
19	12	1545	-4.85
20	11	1482	-4.86
23	10	1557	-5.00

Survey 95-05

Station 6

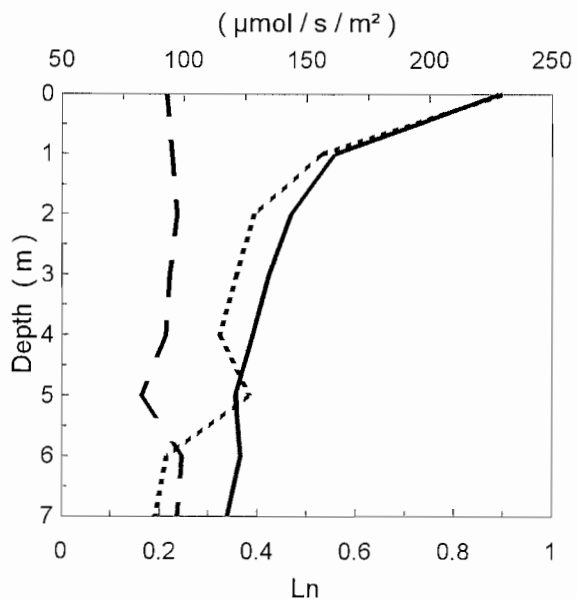


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1446	1616	-0.11
1	691	1682	-0.89
2	556	1606	-1.06
3	314	1603	-1.63
4	190	1600	-2.13
5	149	1642	-2.40
6	115	1629	-2.65
7	68	1616	-3.17
8	49	1546	-3.46
9	45	1688	-3.62
10	31	1636	-3.98
11	24	1660	-4.23
12	16	1632	-4.61
13	12	1659	-4.90
14	13	1654	-4.86
15	19	1689	-4.50
16	9	1759	-5.27
17	4	1624	-5.96
18	13	1652	-4.82
19	20	1593	-4.37
20	21	1650	-4.37
21	24	1676	-4.25

Survey 95-05

Station 9

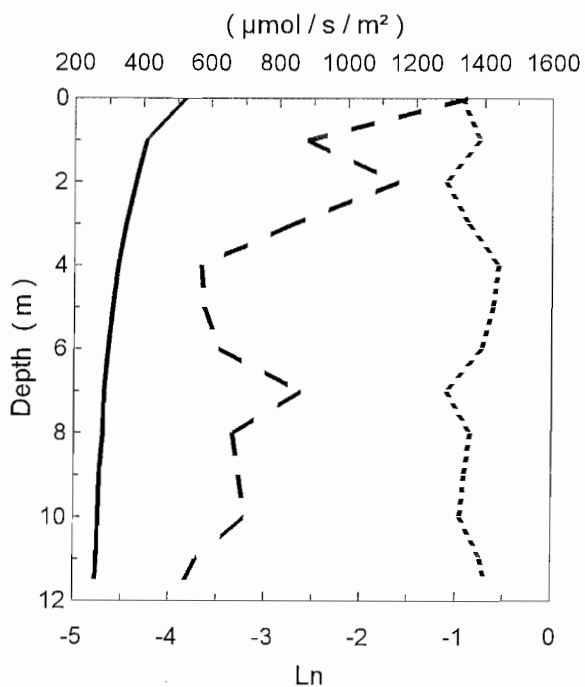


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	228	93	0.90
1	161	95	0.53
2	143	97	0.39
3	134	94	0.36
4	128	93	0.32
5	121	82	0.38
6	123	99	0.21
7	118	97	0.19

Survey 95-05

Station 11

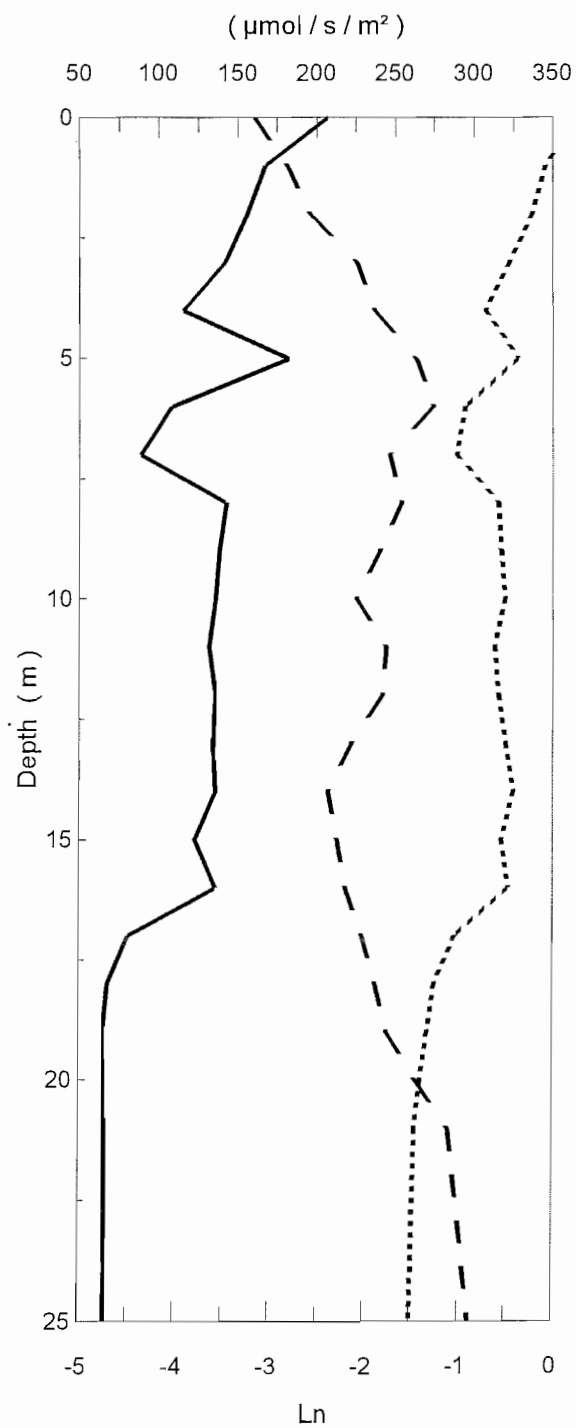


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	523	1347	-0.95
1	408	879	-0.77
2	378	1146	-1.11
3	350	840	-0.88
4	326	571	-0.56
5	312	580	-0.62
6	297	623	-0.74
7	287	864	-1.10
8	282	664	-0.85
9	273	683	-0.92
10	269	700	-0.96
11	265	557	-0.74
11.5	263	528	-0.70

Survey 95-05

Station 13

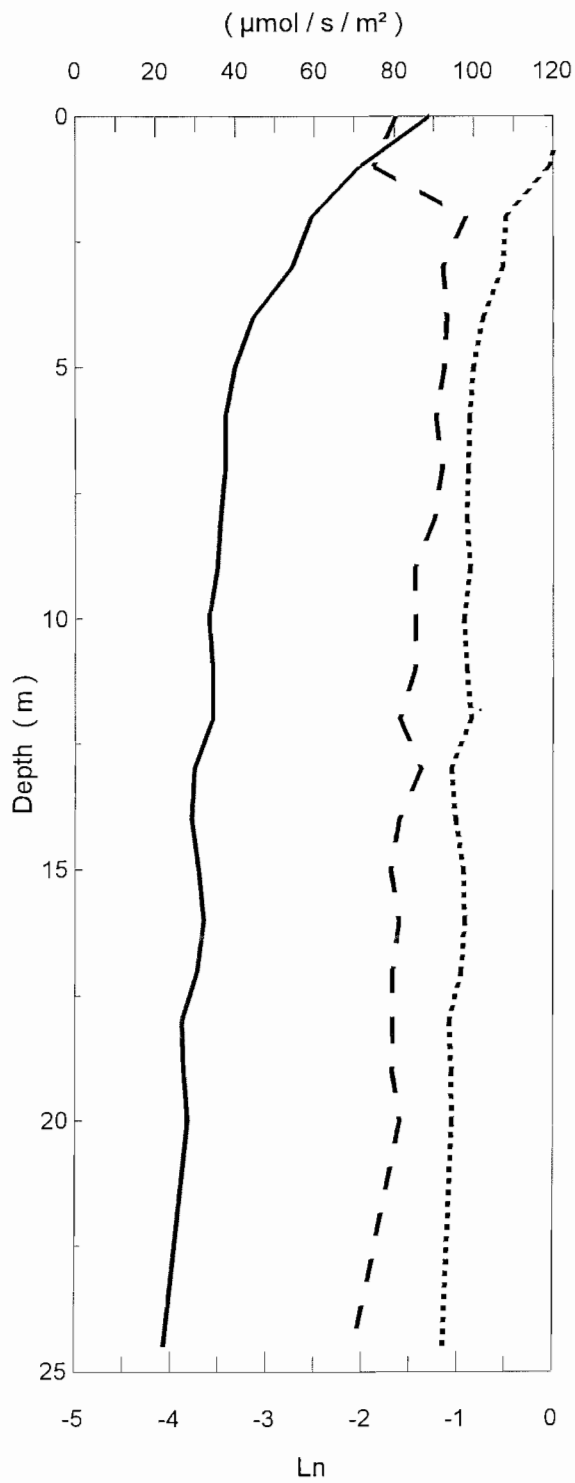


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	207	160	0.26
1	167	181	-0.08
2	156	195	-0.23
3	142	225	-0.46
4	115	236	-0.72
5	182	263	-0.37
6	108	274	-0.93
7	88	246	-1.02
8	143	254	-0.58
9	138	240	-0.55
10	136	225	-0.51
11	131	244	-0.62
12	136	241	-0.58
13	134	221	-0.50
14	136	207	-0.42
15	122	213	-0.55
16	136	218	-0.48
17	80	229	-1.05
18	68	237	-1.26
19	65	245	-1.32
20	65	263	-1.40
21	66	284	-1.46
25	66	297	-1.50

Survey 95-05

Station 14

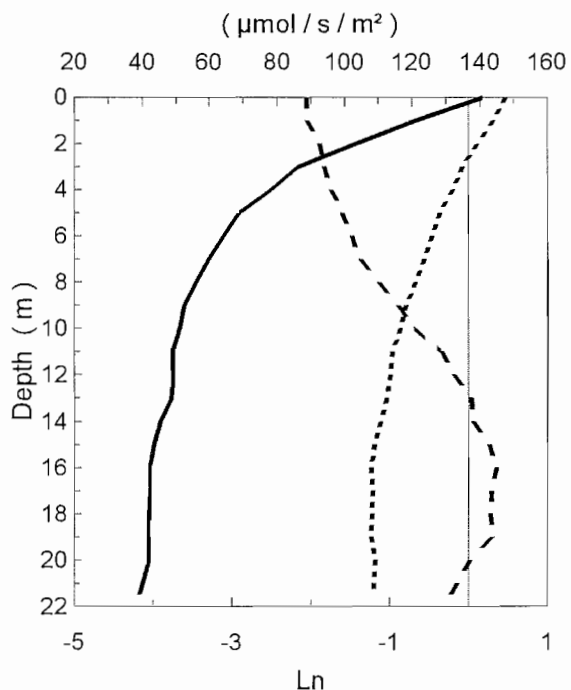


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	89	80	0.10
1	71	75	-0.05
2	59	98	-0.50
3	54	92	-0.53
4	44	93	-0.74
5	40	93	-0.84
6	38	90	-0.88
7	37	92	-0.90
8	36	90	-0.91
9	36	85	-0.87
10	33	85	-0.94
11	34	85	-0.91
12	34	81	-0.86
13	30	87	-1.07
14	29	81	-1.03
15	31	79	-0.94
16	32	81	-0.93
17	30	80	-0.96
18	27	79	-1.09
19	27	79	-1.07
20	28	81	-1.07
24.5	22	70	-1.15

Survey 95-05

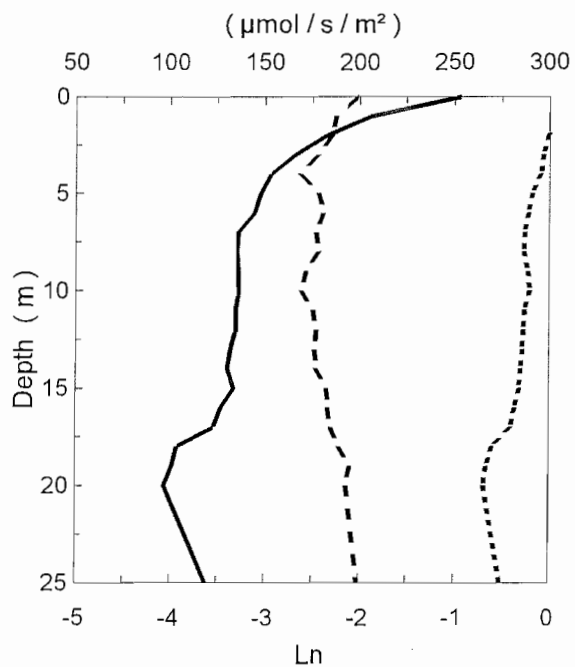
Station 15



Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	141	89	0.46
1	121	89	0.31
2	103	93	0.11
3	86	94	-0.09
4	78	96	-0.21
5	69	99	-0.37
6	64	102	-0.46
7	60	105	-0.56
8	56	110	-0.68
9	52	116	-0.79
10	51	121	-0.86
11	49	129	-0.97
12	49	132	-0.99
13	49	138	-1.04
14	45	138	-1.11
15	43	143	-1.19
16	42	145	-1.23
17	42	143	-1.22
18	42	143	-1.23
19	42	143	-1.24
20	42	137	-1.19
21.5	39	131	-1.21

Survey 95-05

Station 16

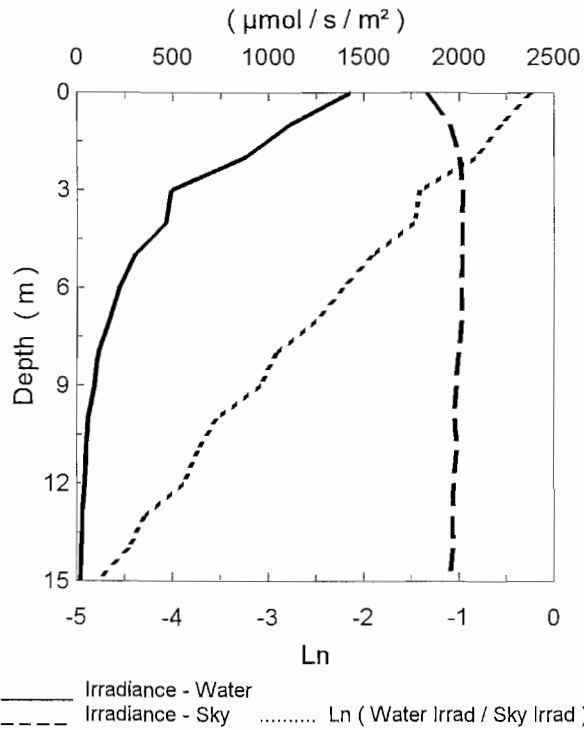


Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	253	199	0.24
1	206	187	0.10
2	183	185	-0.01
3	166	178	-0.07
4	153	168	-0.10
5	148	178	-0.19
6	144	181	-0.22
7	136	177	-0.27
8	135	178	-0.27
9	136	171	-0.23
10	136	169	-0.21
11	134	175	-0.26
12	134	177	-0.28
13	132	176	-0.29
14	130	177	-0.31
15	133	183	-0.32
16	127	183	-0.37
17	123	184	-0.41
18	103	189	-0.61
19	101	195	-0.66
20	97	193	-0.69
25	119	199	-0.51

Legend:
 — Irradiance - Water
 - - - Irradiance - Sky
 Ln (Water Irrad / Sky Irrad)

Survey 95-05

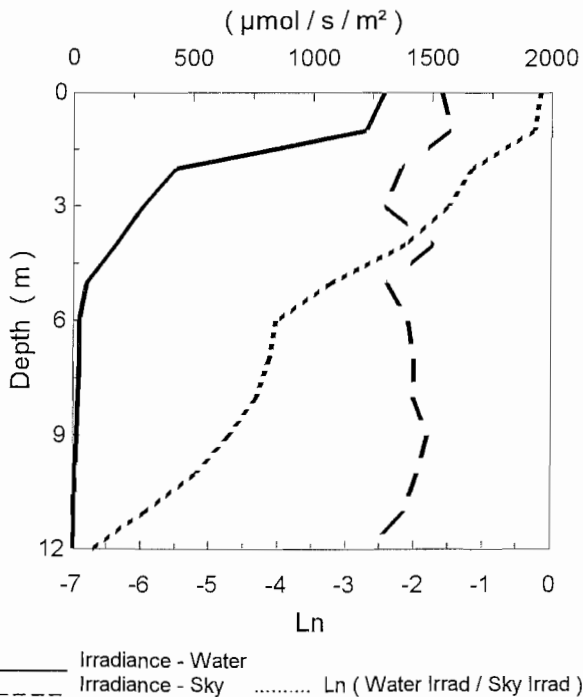
Station 24



Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1431	1830	-0.25
1	1109	1952	-0.57
2	873	2001	-0.83
3	489	2020	-1.42
4	463	2016	-1.47
5	299	2016	-1.91
6	219	2012	-2.22
7	165	2013	-2.50
8	107	1997	-2.93
9	91	1983	-3.08
10	57	1977	-3.55
11	47	1988	-3.74
12	41	1972	-3.88
13	27	1963	-4.30
14	23	1968	-4.46
15	16	1947	-4.79

Survey 95-05

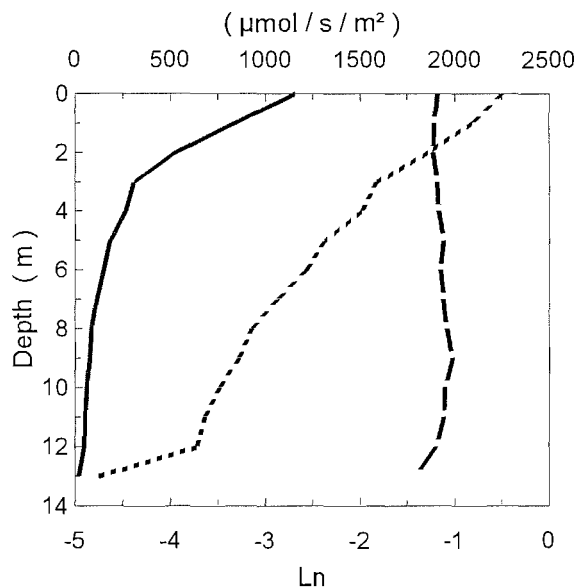
Station 25



Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1295	1537	-0.17
1	1221	1578	-0.26
2	426	1369	-1.17
3	288	1301	-1.51
4	177	1507	-2.14
5	52	1308	-3.23
6	24	1398	-4.05
7	23	1422	-4.14
8	19	1420	-4.33
9	13	1479	-4.73
10	8	1440	-5.21
11	4	1385	-5.93
12	2	1240	-6.71
13	0	1092	ERR

Survey 95-05

Station 26

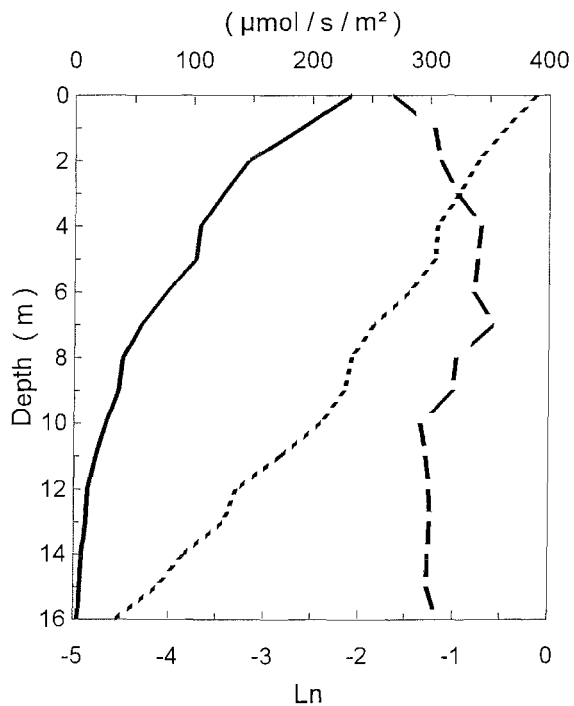


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1157	1907	-0.50
1	835	1889	-0.82
2	521	1882	-1.28
3	306	1908	-1.83
4	264	1913	-1.98
5	181	1942	-2.38
6	148	1925	-2.56
7	109	1940	-2.88
8	84	1953	-3.15
9	75	1987	-3.28
10	60	1947	-3.49
11	51	1942	-3.64
12	46	1901	-3.72
13	15	1791	-4.76

Survey 95-05

Station 29

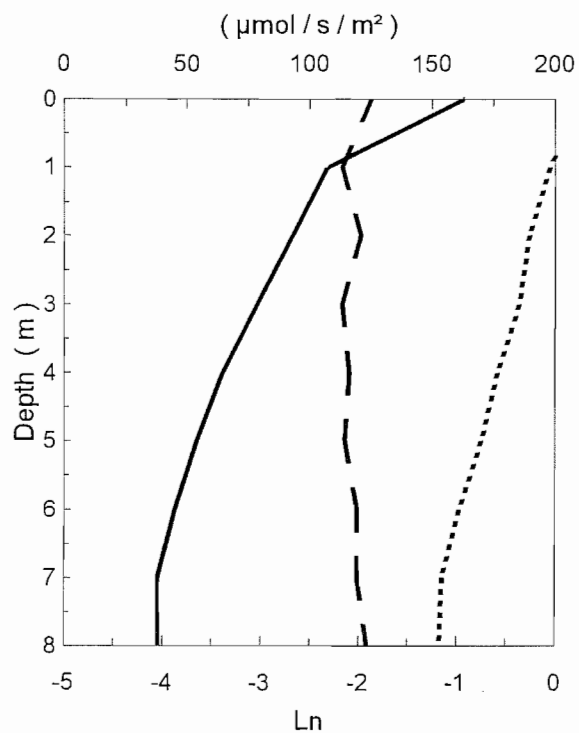


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	233	268	-0.14
1	190	302	-0.46
2	146	308	-0.74
3	125	322	-0.95
4	106	342	-1.18
5	101	339	-1.21
6	77	337	-1.47
7	56	354	-1.85
8	40	321	-2.08
9	37	319	-2.16
10	26	292	-2.41
11	17	296	-2.83
12	11	299	-3.30
13	10	300	-3.43
14	6	298	-3.85
15	5	298	-4.14
16	3	306	-4.57

Survey 95-05

Station 32



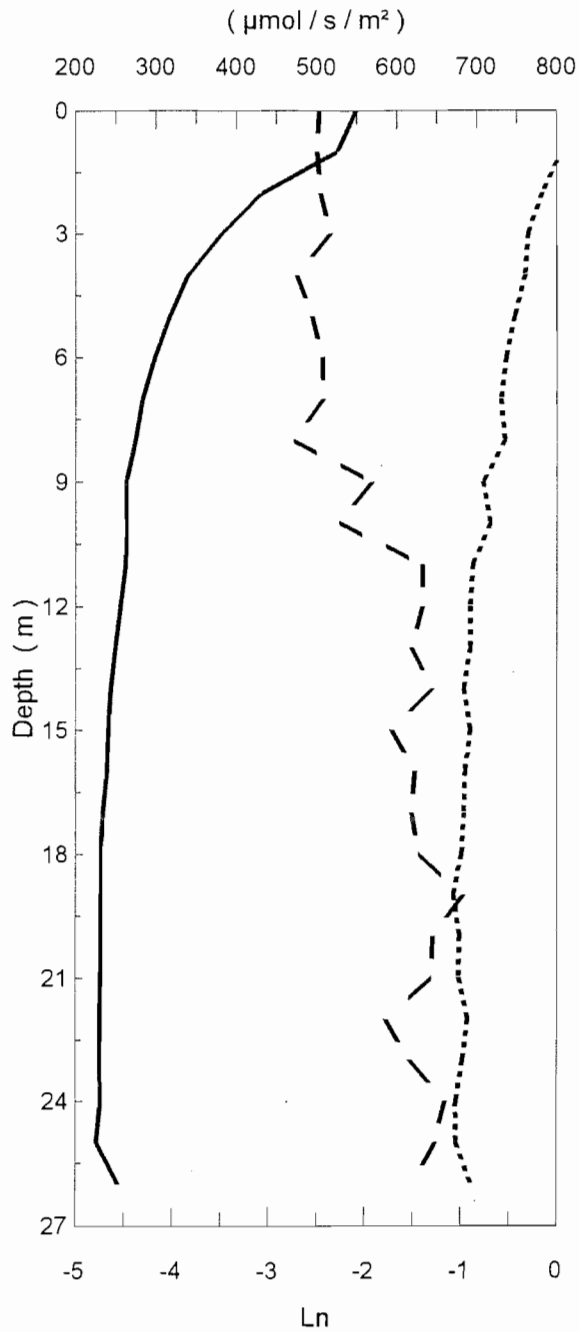
— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	163	125	0.27
1	107	113	-0.05
2	93	121	-0.26
3	78	113	-0.37
4	64	116	-0.59
5	54	114	-0.75
6	45	119	-0.98
7	38	119	-1.15
8	38	123	-1.18

Appendix 6.6 Survey 95-06 irradiance ($\mu\text{mol/s/m}^2$) profiles.

Survey 95-06

Station 1

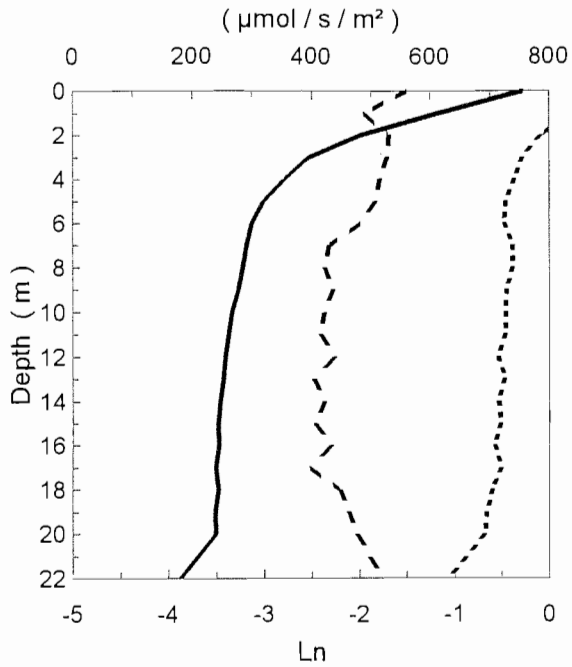


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	549	503	0.09
1	525	500	0.05
2	430	504	-0.16
3	381	516	-0.30
4	339	474	-0.34
5	316	494	-0.45
6	297	507	-0.53
7	283	508	-0.59
8	273	471	-0.54
9	262	568	-0.77
10	263	528	-0.70
11	261	631	-0.88
12	255	631	-0.91
13	249	617	-0.91
14	243	644	-0.97
15	240	593	-0.91
16	238	622	-0.96
17	233	618	-0.98
18	230	626	-1.00
19	231	682	-1.08
20	231	644	-1.02
21	230	642	-1.03
22	229	585	-0.94
23	229	616	-0.99
24	229	659	-1.05
25	225	647	-1.06
26	252	619	-0.90

Survey 95-06

Station 5

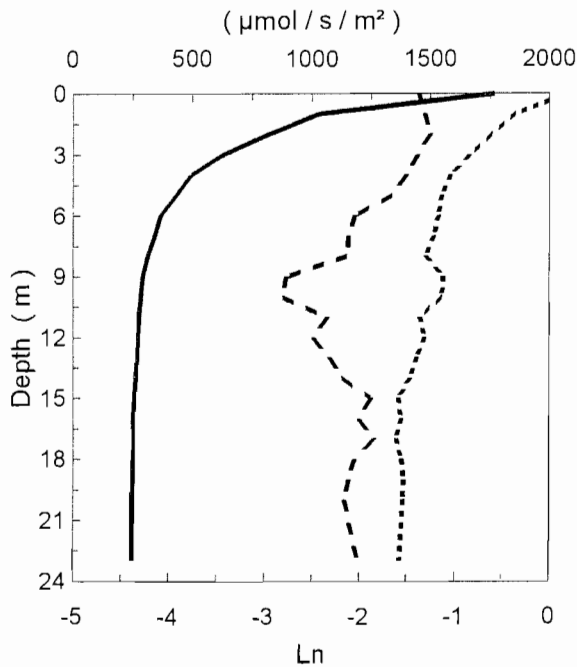


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	755	559	0.30
1	609	487	0.22
2	481	528	-0.09
3	393	526	-0.29
4	353	514	-0.38
5	317	506	-0.47
6	298	481	-0.48
7	290	429	-0.39
8	284	420	-0.39
9	276	434	-0.45
10	265	419	-0.46
11	259	414	-0.47
12	255	438	-0.54
13	251	403	-0.47
14	246	421	-0.54
15	242	404	-0.51
16	243	433	-0.58
17	238	396	-0.51
18	242	447	-0.61
19	237	462	-0.67
20	238	475	-0.69
22	179	518	-1.06

Survey 95-06

Station 6

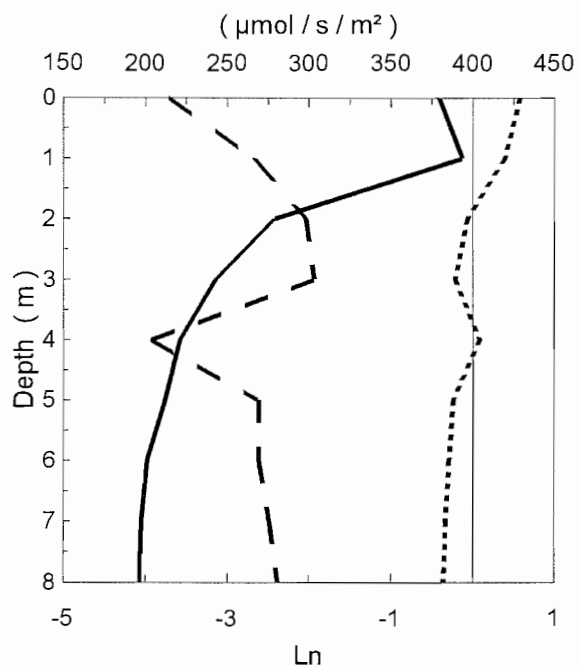


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1765	1447	0.20
1	1031	1475	-0.36
2	814	1495	-0.61
3	622	1445	-0.84
4	493	1396	-1.04
5	428	1336	-1.14
6	365	1179	-1.17
7	340	1152	-1.22
8	311	1147	-1.31
9	289	891	-1.12
10	280	875	-1.14
11	271	1067	-1.37
12	267	1001	-1.32
13	264	1070	-1.40
14	259	1125	-1.47
15	253	1249	-1.60
16	249	1193	-1.57
17	250	1264	-1.62
18	248	1178	-1.56
19	248	1154	-1.54
20	242	1136	-1.55
23	246	1194	-1.58

Survey 95-06

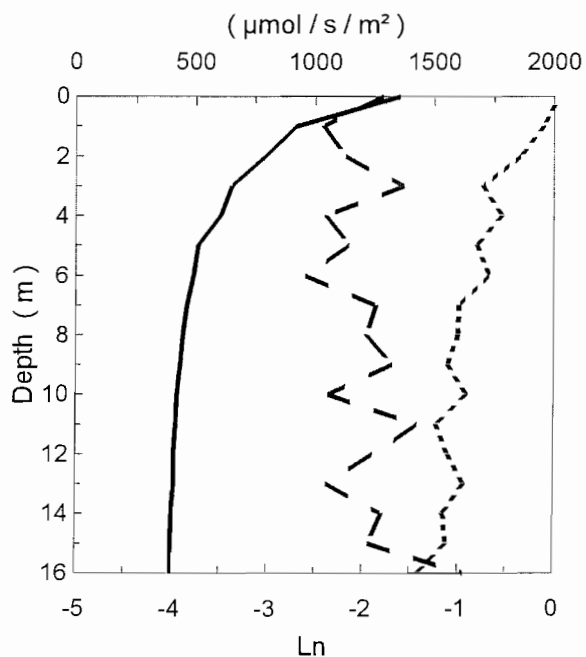
Station 9



Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	379	214	0.57
1	394	266	0.39
2	279	298	-0.07
3	243	303	-0.22
4	221	203	0.08
5	212	269	-0.24
6	201	269	-0.29
7	197	276	-0.33
8	196	280	-0.36

Survey 95-06

Station 11

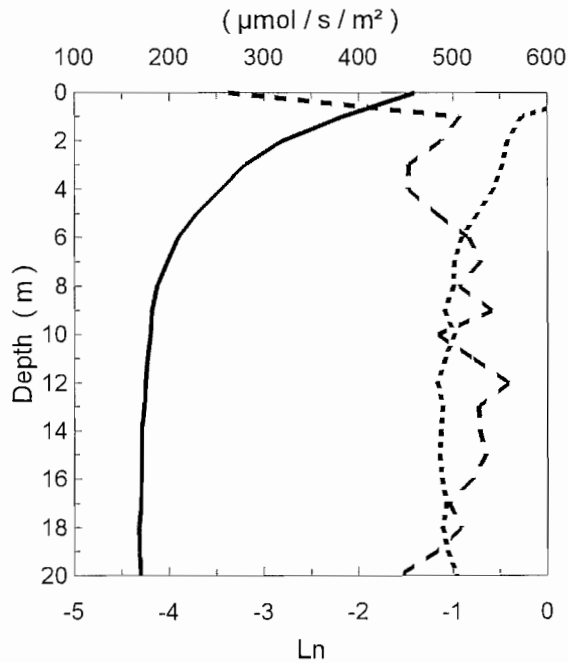


Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	1353	1282	0.05
1	918	1034	-0.12
2	790	1125	-0.35
3	648	1371	-0.75
4	602	1043	-0.55
5	508	1140	-0.81
6	488	960	-0.68
7	463	1255	-1.00
8	445	1213	-1.00
9	435	1321	-1.11
10	421	1054	-0.92
11	416	1427	-1.23
12	409	1242	-1.11
13	407	1046	-0.94
14	400	1280	-1.16
15	396	1224	-1.13
16	393	1629	-1.42

Legend:
 — Irradiance - Water
 - - - Irradiance - Sky
 Ln (Water Irrad / Sky Irrad)

Survey 95-06

Station 13

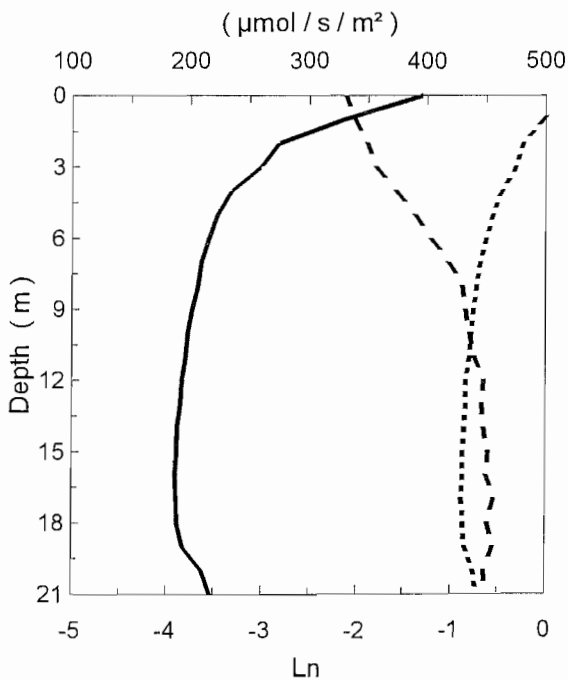


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	459	263	0.56
1	383	507	-0.28
2	318	487	-0.43
3	279	452	-0.48
4	254	452	-0.58
5	228	483	-0.75
6	209	517	-0.91
7	197	529	-0.99
8	187	507	-1.00
9	181	541	-1.09
10	180	484	-0.99
11	176	522	-1.09
12	174	559	-1.17
13	173	527	-1.11
14	170	528	-1.13
15	169	534	-1.15
16	170	520	-1.12
17	169	496	-1.07
18	168	510	-1.11
19	168	483	-1.06
20	170	442	-0.96

Survey 95-06

Station 14

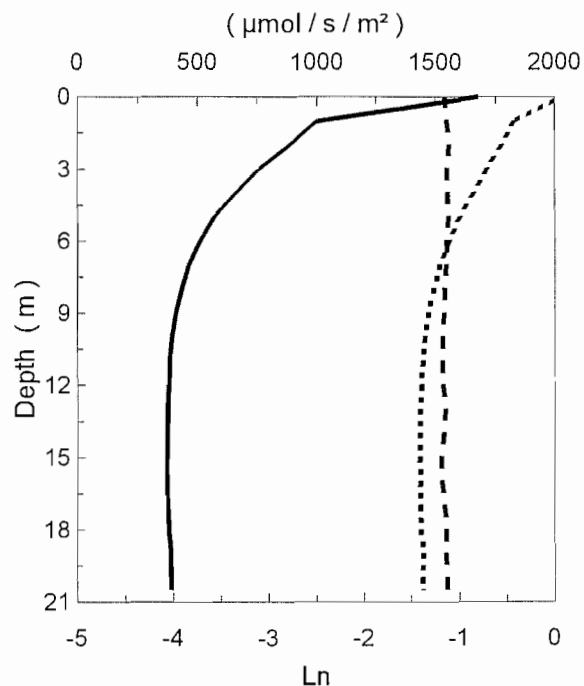


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	395	331	0.18
1	329	338	-0.03
2	274	349	-0.24
3	259	356	-0.32
4	234	373	-0.47
5	222	390	-0.56
6	215	403	-0.63
7	208	418	-0.70
8	206	429	-0.74
9	201	432	-0.76
10	197	435	-0.79
11	196	439	-0.81
12	192	448	-0.85
13	191	446	-0.85
14	189	447	-0.86
15	188	451	-0.87
16	187	449	-0.88
17	188	456	-0.89
18	189	450	-0.87
19	193	455	-0.86
20	210	448	-0.76
21	217	449	-0.73

Survey 95-06

Station 15

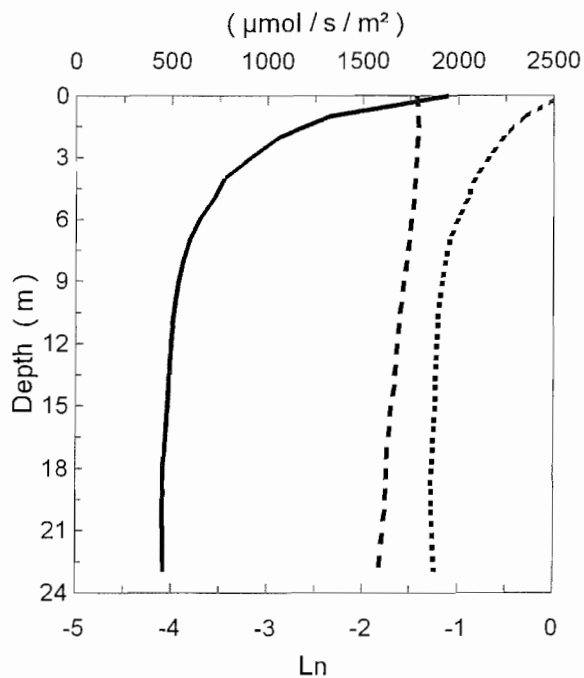


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1678	1537	0.09
1	997	1545	-0.44
2	885	1556	-0.56
3	754	1548	-0.72
4	659	1551	-0.86
5	569	1552	-1.00
6	507	1545	-1.11
7	461	1541	-1.21
8	432	1536	-1.27
9	408	1533	-1.32
10	393	1529	-1.36
11	385	1529	-1.38
12	378	1532	-1.40
13	374	1539	-1.42
14	372	1534	-1.42
15	371	1523	-1.41
16	373	1526	-1.41
17	376	1540	-1.41
18	380	1544	-1.40
19	386	1543	-1.38
20	387	1548	-1.39
20.5	389	1546	-1.38

Survey 95-06

Station 16

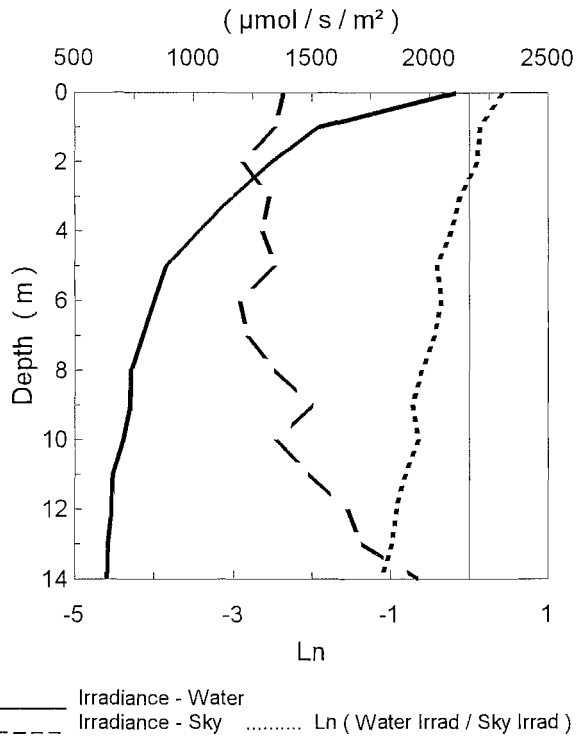


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m²)	Irradiance Sky (µmol/s/m²)	Ln (Water / Sky)
0	1946	1782	0.09
1	1327	1790	-0.30
2	1061	1789	-0.52
3	911	1779	-0.67
4	770	1772	-0.83
5	717	1767	-0.90
6	643	1755	-1.00
7	590	1746	-1.09
8	558	1731	-1.13
9	535	1713	-1.16
10	517	1703	-1.19
11	502	1692	-1.21
12	493	1682	-1.23
13	487	1672	-1.23
14	483	1665	-1.24
15	477	1649	-1.24
16	470	1642	-1.25
17	462	1631	-1.26
18	454	1626	-1.28
19	453	1624	-1.28
20	450	1616	-1.28
23	456	1584	-1.25

Survey 95-06

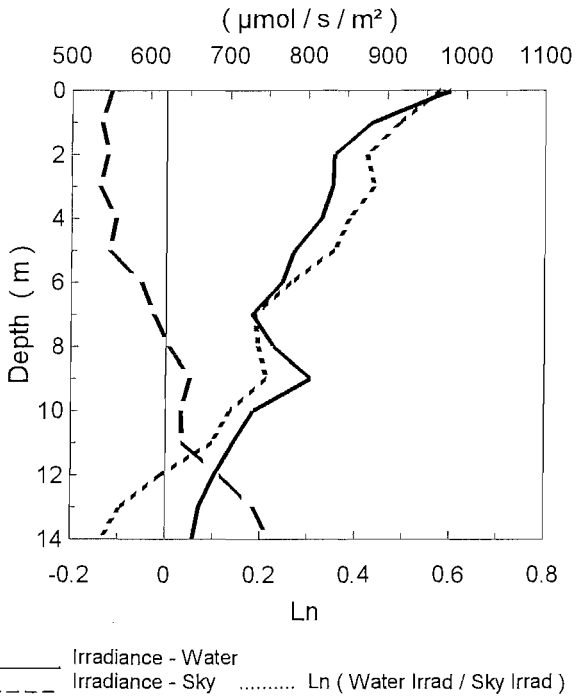
Station 25



Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	2110	1380	0.42
1	1524	1341	0.13
2	1327	1204	0.10
3	1162	1317	-0.13
4	1019	1287	-0.23
5	884	1340	-0.42
6	831	1192	-0.36
7	784	1224	-0.45
8	735	1342	-0.60
9	731	1506	-0.72
10	703	1347	-0.65
11	655	1486	-0.82
12	655	1653	-0.93
13	637	1709	-0.99
14	633	1951	-1.13

Survey 95-06

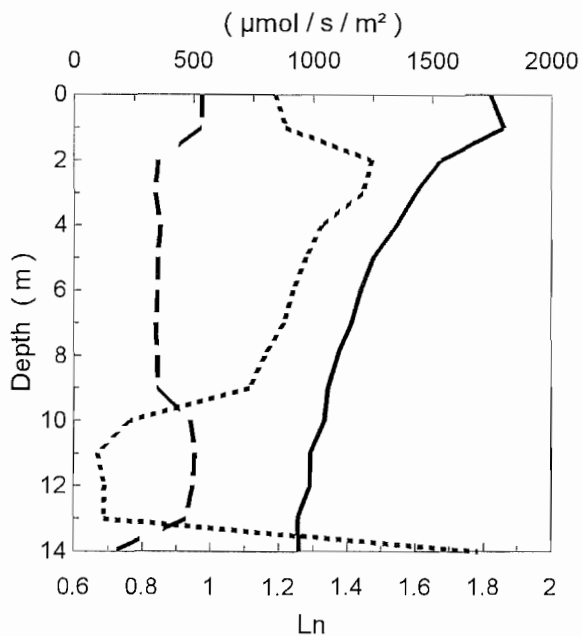
Station 26



Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	980	550	0.58
1	879	538	0.49
2	832	545	0.42
3	830	536	0.44
4	817	555	0.39
5	782	549	0.36
6	767	589	0.26
7	729	605	0.19
8	756	623	0.19
9	804	650	0.21
10	730	639	0.13
11	705	639	0.10
12	682	689	-0.01
13	662	731	-0.10
14	654	749	-0.14

Survey 95-06

Station 27

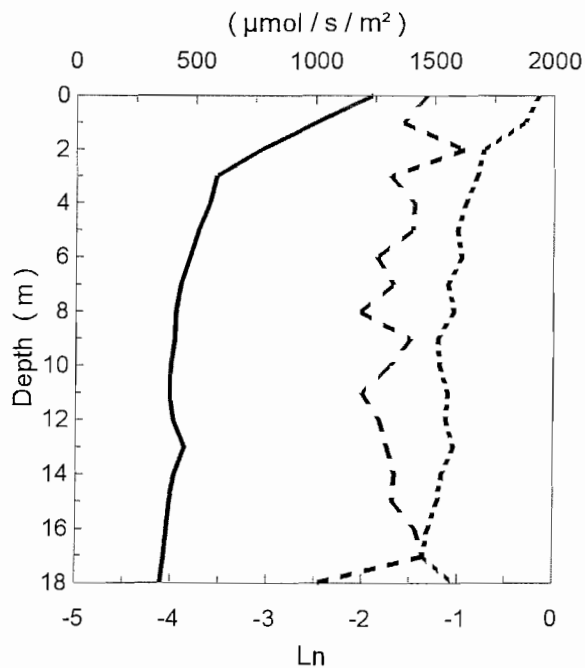


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m ²)	Irradiance Sky (µmol/s/m ²)	Ln (Water / Sky)
0	1740	531	1.19
1	1797	531	1.22
2	1531	351	1.47
3	1426	336	1.44
4	1344	358	1.32
5	1249	348	1.28
6	1199	347	1.24
7	1159	344	1.21
8	1101	346	1.16
9	1061	349	1.11
10	1047	489	0.76
11	987	506	0.67
12	988	496	0.69
13	934	470	0.69
14	939	158	1.79

Survey 95-06

Station 30

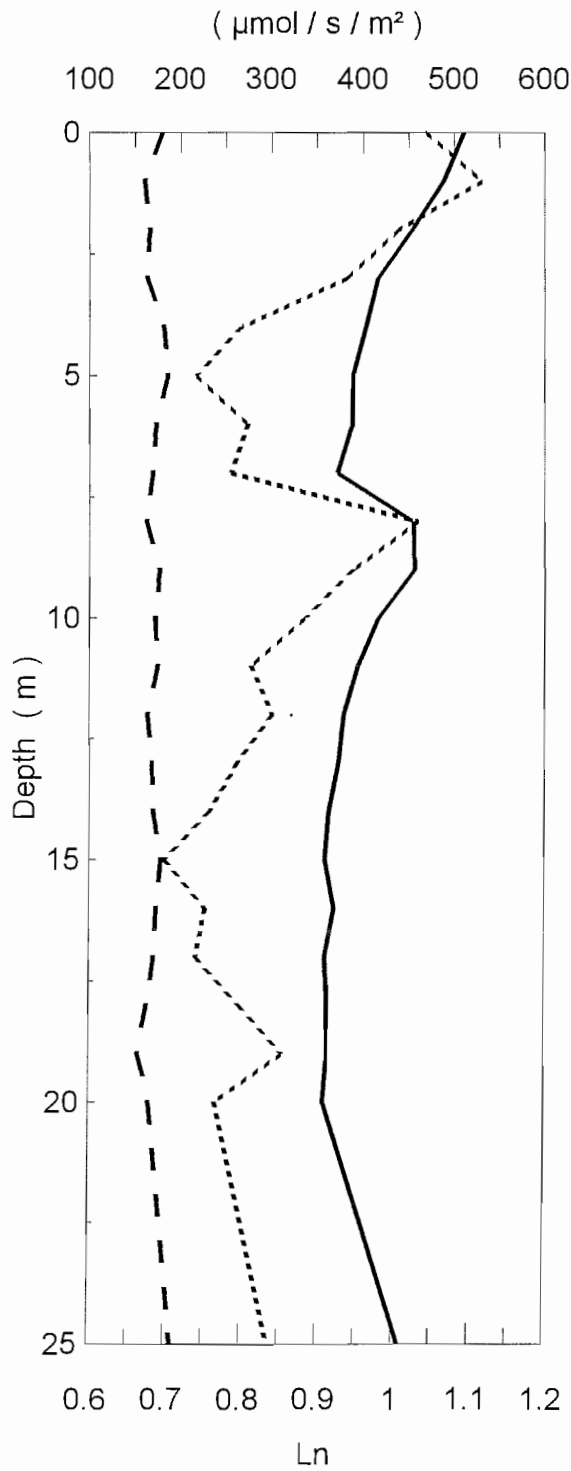


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water (µmol/s/m ²)	Irradiance Sky (µmol/s/m ²)	Ln (Water / Sky)
0	1237	1462	-0.17
1	998	1367	-0.31
2	774	1624	-0.74
3	583	1311	-0.81
4	557	1411	-0.93
5	510	1407	-1.02
6	477	1257	-0.97
7	437	1329	-1.11
8	419	1189	-1.04
9	414	1399	-1.22
10	397	1313	-1.20
11	393	1195	-1.11
12	408	1268	-1.13
13	455	1301	-1.05
14	414	1332	-1.17
15	391	1324	-1.22
16	382	1420	-1.31
17	369	1455	-1.37
18	357	1004	-1.03

Survey 95-06

Station 32

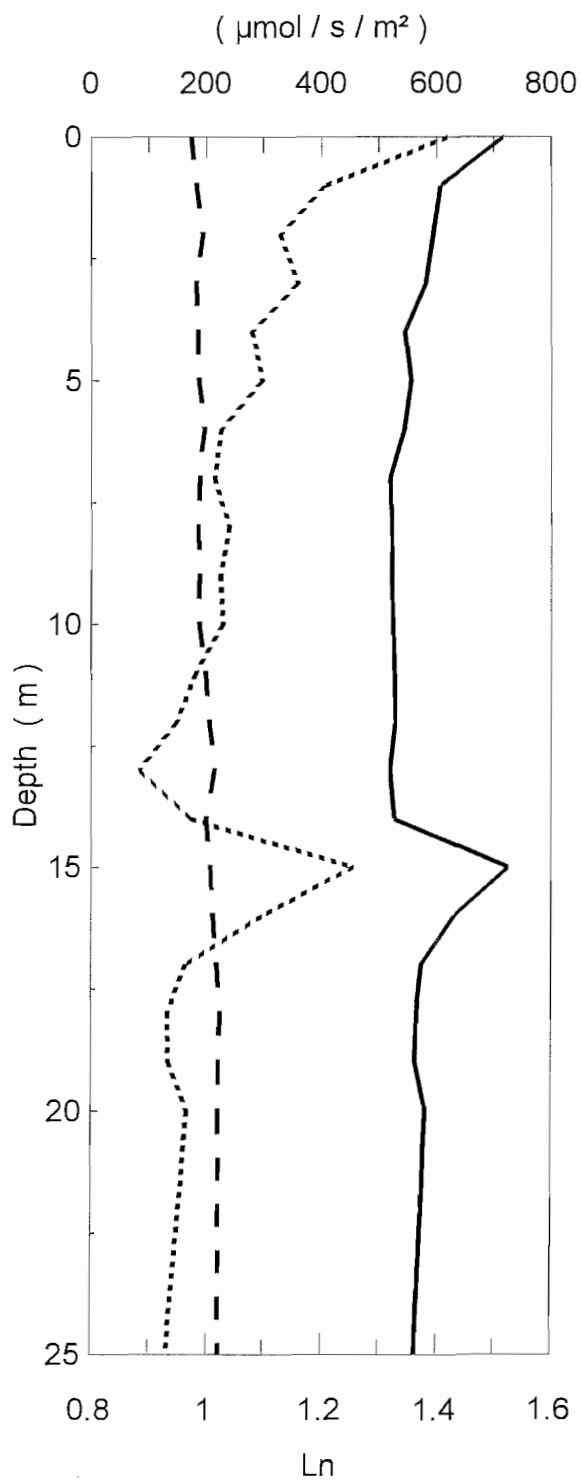


— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	511	180	1.04
1	488	160	1.12
2	454	166	1.01
3	416	163	0.94
4	402	181	0.80
5	389	186	0.74
6	387	173	0.81
7	371	169	0.79
8	455	162	1.03
9	456	177	0.95
10	417	172	0.88
11	394	175	0.81
12	379	164	0.84
13	373	169	0.79
14	362	170	0.76
15	358	178	0.70
16	368	174	0.75
17	358	171	0.74
18	361	163	0.80
19	361	154	0.85
20	357	166	0.77
25	440	191	0.84

Survey 95-06

Station 34



— Irradiance - Water
 - - - Irradiance - Sky Ln (Water Irrad / Sky Irrad)

Depth (m)	Irradiance Water ($\mu\text{mol/s/m}^2$)	Irradiance Sky ($\mu\text{mol/s/m}^2$)	Ln (Water / Sky)
0	717	174	1.42
1	606	182	1.20
2	593	192	1.13
3	580	182	1.16
4	545	185	1.08
5	555	185	1.10
6	544	195	1.03
7	518	188	1.01
8	522	185	1.04
9	521	187	1.02
10	524	188	1.03
11	527	198	0.98
12	528	205	0.95
13	518	214	0.88
14	526	199	0.97
15	725	207	1.26
16	631	210	1.10
17	574	219	0.96
18	565	223	0.93
19	563	221	0.93
20	580	221	0.97
25	563	222	0.93

Appendix 6.7 Number of data points, slope ($-k_2$), intercept, standard error of coefficients, standardized regression coefficients and R^2 for the regression of $\ln(\text{WaterIrrad} / \text{SkyIrrad})$ vs. depth (m) for the 1995 irradiance profiles.

Survey	STATION	No. of data points	Slope ($-k_2$)	Intercept	Standard Error of Coefficients	Standardized Regression Coefficients	R^2
Cardigan, P.E.I.	01	17	-0.13	-0.67	0.11	0.01	0.88
	02	11	-0.17	-0.99	0.16	0.03	0.82
	03	10	-0.09	-0.16	0.27	0.05	0.30
	04	10	-0.23	-0.11	0.16	0.03	0.88
	05	6	-0.40	0.20	0.09	0.03	0.98
Survey 95-01	01	19	-0.25	-0.26	0.07	0.01	0.99
	06	41	-0.14	-0.91	0.07	0.00	0.98
	08	41	-0.14	-0.51	0.07	0.00	0.98
	09	28	-0.17	-0.65	0.12	0.01	0.95
	13	28	-0.20	-0.58	0.10	0.01	0.98
	14	22	-0.22	-0.35	0.05	0.00	0.99
	15	11	-0.30	-0.05	0.07	0.01	0.99
	19	23	-0.24	-0.63	0.12	0.01	0.97
	20	20	-0.28	-0.13	0.05	0.00	1.00
	21	24	-0.27	-0.11	0.03	0.00	1.00
	23	26	-0.26	-0.27	0.04	0.00	1.00
	25	39	-0.11	-0.62	0.07	0.00	0.97
	28	18	-0.16	-0.46	0.05	0.00	0.99
Survey 95-03	01	24	-0.14	-1.29	0.15	0.01	0.90
	04	23	-0.21	-0.62	0.06	0.00	0.99
	05	22	-0.22	-0.37	0.05	0.00	0.99
	06	23	-0.20	-0.22	0.08	0.01	0.98
	09	9	-0.29	-0.42	0.05	0.01	0.99

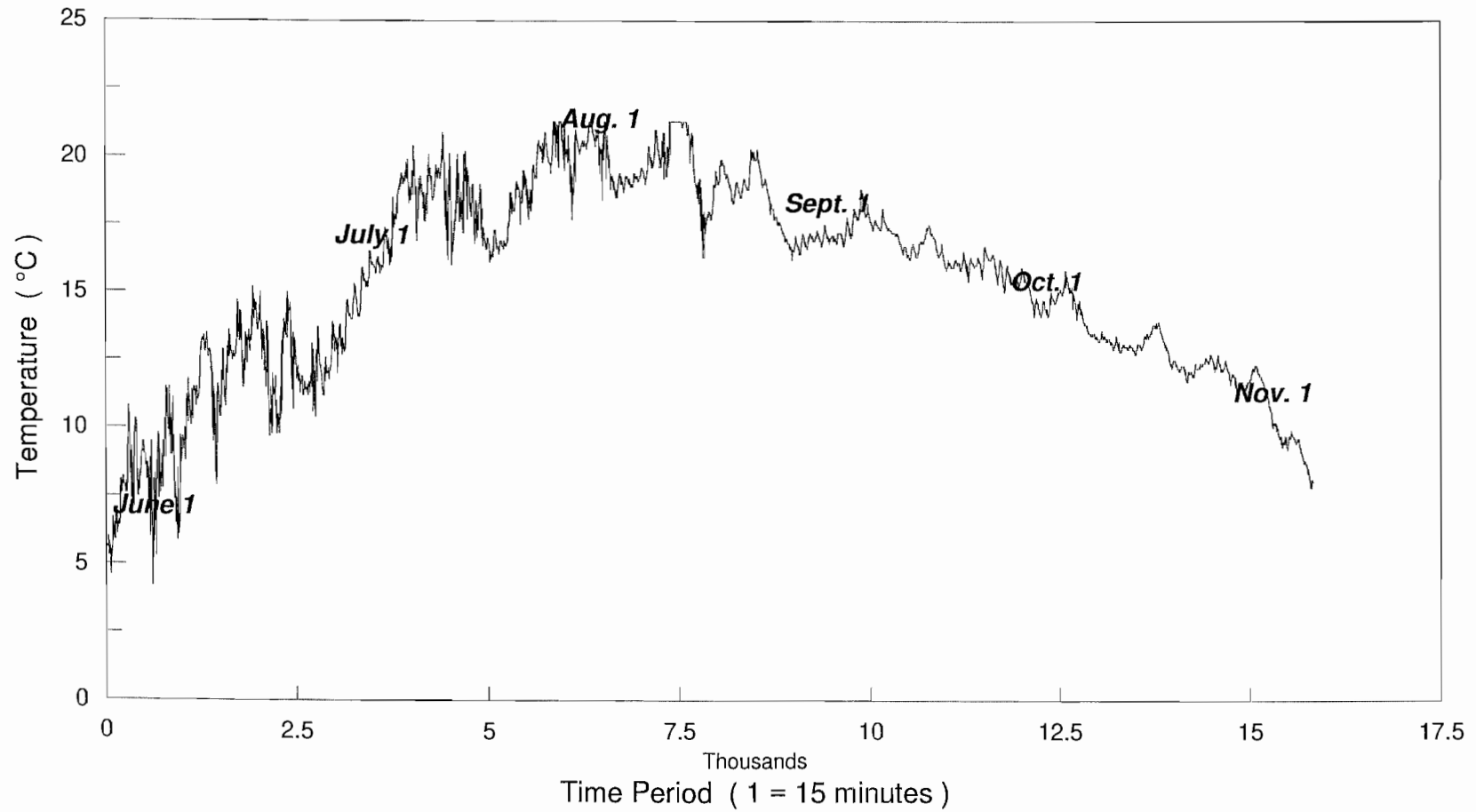
Survey	STATION	No. of data points	Slope ($-k_2$)	Intercept	Standard Error of Coefficients	Standardized Regression Coefficients	R ²
Survey 95-03	11	16	-0.25	-0.20	0.05	0.01	0.99
	13	20	-0.20	-1.25	0.21	0.02	0.87
	16	21	-0.28	-0.38	0.06	0.01	0.99
	17	20	-0.27	-0.05	0.05	0.00	1.00
	18	24	-0.20	-0.18	0.03	0.00	1.00
	19	25	-0.19	-0.16	0.03	0.00	1.00
	20	21	-0.23	-0.16	0.04	0.00	1.00
	21	22	-0.20	-0.73	0.13	0.01	0.95
	22	23	-0.25	-0.17	0.05	0.00	0.99
	23	24	-0.26	0.00	0.04	0.00	1.00
	27	24	-0.26	-0.14	0.04	0.00	1.00
	29	25	-0.17	0.17	0.14	0.01	0.95
	32	21	-0.21	-0.01	0.07	0.01	0.98
	34	25	-0.18	0.23	0.15	0.01	0.94
	36	24	-0.16	-0.34	0.07	0.00	0.98
37	24	-0.14	-0.29	0.07	0.00	0.98	
Survey 95-04	02	24	-0.20	-0.84	0.06	0.00	0.99
	04	24	-0.18	0.60	0.03	0.00	1.00
	05	25	-0.18	0.19	0.05	0.00	0.99
	07	24	-0.20	-0.65	0.10	0.01	0.97
	11	27	-0.16	-0.42	0.03	0.00	1.00
	12	23	-0.20	0.20	0.03	0.00	1.00
	14	22	-0.23	0.21	0.07	0.01	0.99
	17	25	-0.19	-0.19	0.11	0.01	0.97
	19	21	-0.31	0.28	0.11	0.01	0.98
	23	26	-0.34	0.02	0.09	0.01	0.99
24	25	-0.13	-0.58	0.09	0.01	0.96	

Survey	STATION	No. of data points	Slope ($-k_2$)	Intercept	Standard Error of Coefficients	Standardized Regression Coefficients	R ²
Survey 95-04	25	24	-0.17	-0.55	0.13	0.01	0.94
	31	14	-0.23	-0.76	0.13	0.02	0.94
	33	9	-0.42	-0.40	0.31	0.06	0.85
	35	3	-1.49	-0.15	0.02	0.02	1.00
	39	21	-0.22	-0.26	0.07	0.01	0.99
Survey 95-05	04	23	-0.16	-1.14	0.13	0.01	0.93
	05	22	-0.14	-2.00	0.06	0.00	0.98
	06	22	-0.21	-1.28	0.32	0.03	0.77
	09	8	-0.08	0.68	0.08	0.02	0.74
	11	13	0.01	-0.87	0.09	0.01	0.02
	13	23	-0.05	-0.13	0.11	0.01	0.62
	14	22	-0.04	-0.43	0.08	0.01	0.63
	15	22	-0.08	0.10	0.08	0.01	0.88
	16	22	-0.03	0.05	0.04	0.00	0.82
	24	16	-0.30	-0.34	0.05	0.01	0.99
	25	13	-0.54	-0.10	0.17	0.02	0.98
	26	14	-0.28	-0.74	0.12	0.02	0.97
	29	17	-0.26	-0.05	0.08	0.01	0.99
32	9	-0.18	0.16	0.04	0.01	0.98	
Survey 95-06	01	27	-0.04	-0.23	0.06	0.00	0.78
	05	22	-0.04	-0.05	0.06	0.01	0.71
	06	22	-0.06	-0.59	0.10	0.01	0.71
	09	9	-0.11	0.37	0.11	0.02	0.75
	11	17	-0.07	-0.27	0.09	0.01	0.79
	13	21	-0.05	-0.35	0.12	0.01	0.56
	14	22	-0.04	-0.26	0.08	0.01	0.64
	15	22	-0.05	-0.61	0.10	0.01	0.66

Survey	STATION	No. of data points	Slope ($-k_2$)	Intercept	Standard Error of Coefficients	Standardized Regression Coefficients	R ²
Survey 95-06	16	22	-0.04	-0.55	0.09	0.01	0.65
	25	15	-0.10	0.24	0.04	0.01	0.97
	26	15	-0.05	0.56	0.02	0.00	0.97
	27	15	-0.03	1.35	0.15	0.02	0.16
	30	19	-0.04	-0.61	0.09	0.01	0.62
	32	22	-0.01	0.96	0.04	0.00	0.34
	34	22	-0.01	1.17	0.04	0.00	0.41

Appendix 7.1.1

Water Temperature (°C) 25-May-95 to 06-Nov-95
C3 - 1m, Cardigan, P.E.I.



Probe Maximum = 21.3°C

APPENDIX 7.1.2 Daily and monthly average, minimum and maximum water temperature (°C) at Cardigan, PEI site C3 at 1m, 25-May-95 to 06-Nov-95. (Probe maximum = 21.3 °C)

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
May	25	5.76	5.40	6.10
	26	5.89	4.60	6.90
	27	7.16	6.10	8.20
	28	8.63	7.60	10.80
	29	8.85	7.10	10.30
	30	8.66	7.50	9.50
	31	7.80	4.20	9.50
May		7.70	4.20	10.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Jun	1	7.86	4.70	9.80
	2	9.20	7.60	11.50
	3	9.91	7.40	11.50
	4	7.40	5.90	9.70
	5	10.02	8.80	11.80
	6	10.95	10.10	11.50
	7	12.17	11.00	13.30
	8	12.99	12.60	13.50
	9	10.50	7.90	12.40
	10	11.43	10.40	12.90
	11	12.59	10.80	13.60
	12	13.23	12.60	14.70
	13	12.88	11.50	14.30
	14	13.70	12.40	15.20
	15	14.14	13.50	15.00
	16	12.63	10.30	13.90
	17	10.89	9.70	12.00
	18	11.12	9.80	13.60
	19	14.06	12.90	15.00
	20	12.38	10.70	14.40
	21	11.62	11.20	12.00
	22	11.65	10.60	13.10
	23	12.39	10.40	13.70
	24	11.89	11.20	12.60
	25	12.73	11.80	13.90
	26	13.22	12.00	13.80
	27	13.66	12.70	14.70
	28	14.50	14.00	15.30
	29	14.90	14.10	15.90
	30	15.68	15.20	16.50
Jun		12.08	4.70	16.50

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Jul				
	1	16.00	15.70	16.30
	2	16.39	15.70	17.40
	3	16.81	16.00	18.50
	4	18.36	17.50	19.40
	5	19.28	18.80	19.90
	6	19.09	18.30	20.40
	7	18.46	16.90	19.30
	8	18.76	17.60	20.10
	9	19.06	18.40	19.70
	10	19.69	17.80	20.90
	11	18.00	16.00	20.10
	12	18.16	16.50	20.10
	13	18.71	17.20	20.20
	14	18.58	17.20	19.50
	15	17.87	16.80	19.00
	16	16.94	16.60	18.10
	17	16.68	16.10	17.30
	18	16.72	16.40	16.90
	19	17.36	16.70	18.70
	20	18.49	17.90	19.10
	21	18.79	17.50	19.50
	22	18.58	17.70	19.70
	23	19.91	19.20	20.60
	24	20.32	19.80	20.90
	25	20.29	19.40	21.30
	26	20.92	19.60	21.30
	27	20.18	19.40	21.10
	28	19.59	17.70	21.00
	29	20.40	20.10	20.60
	30	20.86	20.30	21.30
	31	20.73	19.70	21.20
Jul		18.71	15.70	21.30

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Aug	1	20.35	18.40	21.30
	2	19.58	18.80	20.80
	3	18.96	18.50	19.40
	4	19.08	18.70	19.30
	5	19.11	18.90	19.40
	6	19.35	19.10	19.60
	7	19.63	19.00	20.40
	8	20.18	19.60	21.00
	9	20.06	19.20	20.90
	10	20.47	19.30	21.30
	11	21.30	21.30	21.30
	12	21.26	21.10	21.30
	13	20.55	19.40	21.20
	14	18.76	17.30	19.40
	15	17.54	16.30	18.30
	16	18.39	17.70	19.50
	17	19.47	19.00	19.90
	18	19.24	18.80	19.70
	19	18.69	18.30	19.10
	20	18.84	18.50	19.20
	21	19.40	18.80	20.30
	22	19.93	19.50	20.30
	23	19.08	18.70	19.50
	24	18.17	17.70	18.70
	25	17.54	17.20	17.80
	26	16.95	16.60	17.30
	27	16.69	16.20	17.10
	28	16.77	16.40	17.20
	29	16.94	16.60	17.20
	30	17.05	16.90	17.30
	31	17.07	16.70	17.50
Aug		18.92	16.20	21.30

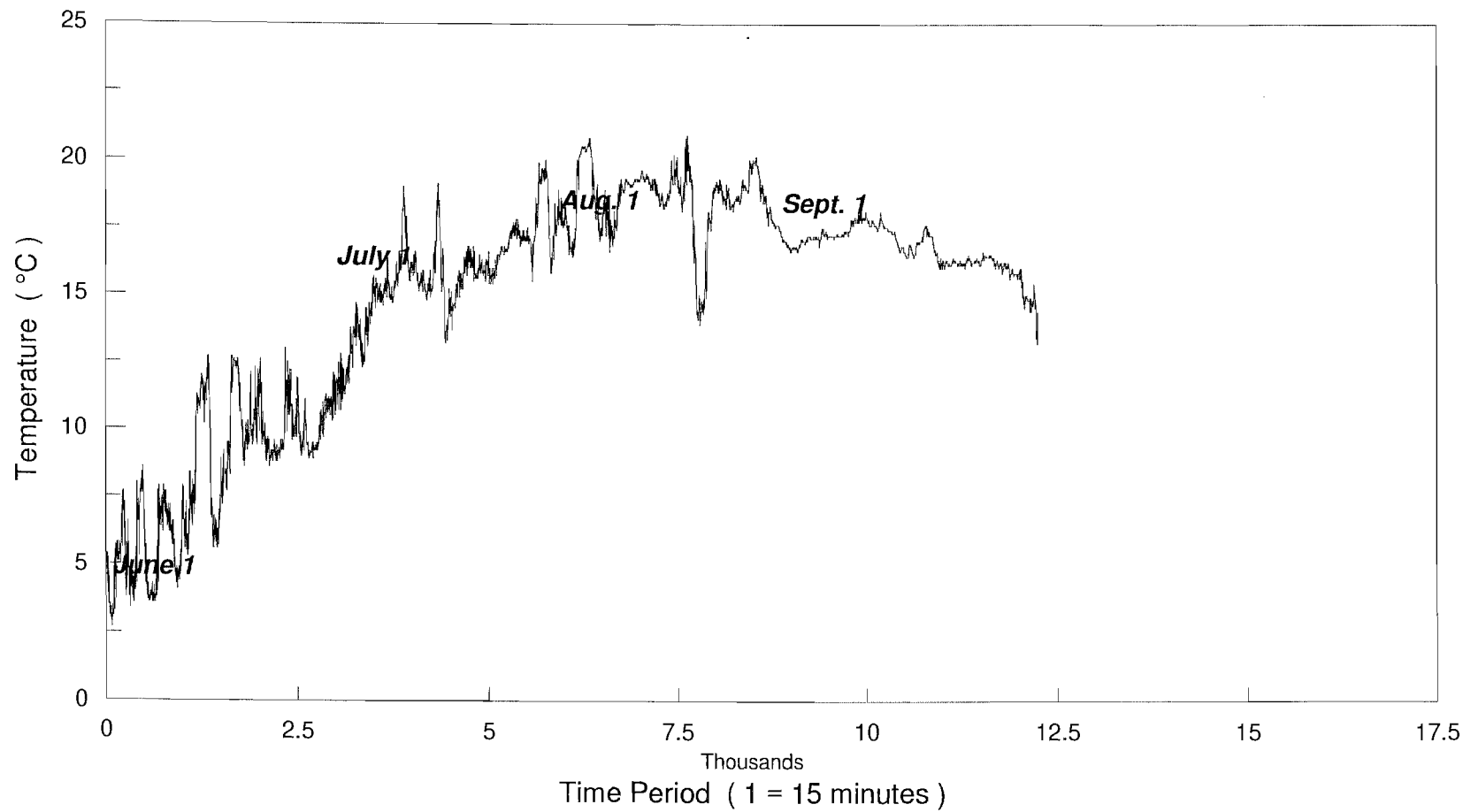
Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Sep				
	1	17.02	16.80	17.20
	2	17.05	16.80	17.20
	3	17.17	16.70	17.80
	4	17.51	17.00	18.10
	5	18.11	17.70	18.80
	6	17.92	17.60	18.30
	7	17.51	17.30	17.70
	8	17.55	17.30	18.10
	9	17.35	17.20	17.60
	10	17.12	16.80	17.20
	11	16.61	16.30	16.80
	12	16.48	16.20	16.80
	13	16.57	16.30	16.90
	14	17.12	16.80	17.50
	15	17.09	16.60	17.50
	16	16.45	16.20	16.80
	17	16.00	15.80	16.20
	18	16.04	15.90	16.20
	19	16.07	15.80	16.50
	20	15.96	15.40	16.30
	21	16.09	15.90	16.30
	22	16.16	15.50	16.70
	23	16.26	16.10	16.40
	24	15.85	15.30	16.20
	25	15.56	15.00	16.00
	26	15.48	15.30	15.70
	27	15.54	15.20	15.90
	28	15.27	14.80	15.70
	29	14.56	14.10	14.80
	30	14.41	14.10	14.70
Sep		16.46	14.10	18.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Oct	1	14.50	14.10	15.00
	2	14.80	14.60	15.00
	3	15.23	14.90	15.80
	4	15.08	14.40	15.50
	5	14.41	14.00	14.80
	6	13.81	13.50	14.30
	7	13.44	13.30	13.50
	8	13.32	13.20	13.60
	9	13.27	13.10	13.40
	10	13.11	12.90	13.40
	11	12.97	12.80	13.20
	12	12.99	12.90	13.10
	13	12.92	12.70	13.10
	14	13.18	12.90	13.50
	15	13.56	13.30	13.80
	16	13.72	13.50	13.90
	17	13.06	12.50	13.40
	18	12.41	12.20	12.60
	19	12.23	12.10	12.30
	20	12.00	11.70	12.30
	21	12.09	11.90	12.40
	22	12.32	12.20	12.60
	23	12.55	12.40	12.70
	24	12.39	12.10	12.70
	25	12.25	12.10	12.50
	26	11.92	11.60	12.20
	27	11.56	11.20	11.90
	28	11.56	11.30	11.80
	29	12.11	11.70	12.30
	30	11.86	11.50	12.20
	31	10.99	10.30	11.50
Oct		12.96	10.30	15.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Nov	1	10.03	9.70	10.30
	2	9.51	9.30	9.70
	3	9.63	9.20	9.90
	4	9.45	9.10	9.60
	5	8.70	8.30	9.10
	6	8.02	7.80	8.30
Nov		9.30	7.80	10.30

Appendix 7.2.1

Water Temperature (°C) 25-May-95 to 30-Sep-95
C3 - 4m, Cardigan, P.E.I.



Probe Maximum = 21.3°C

APPENDIX 7.2.2 Daily and monthly average, minimum and maximum water temperature (°C) at Cardigan, PEI site C3 at 4m, 25-May-95 to 30-Sep-95. (Probe maximum = 21.3 °C)

Month	Day	Average Temperature (°C)	Minimum Temperature (°C)	Maximum Temperature (°C)
May	25	4.91	3.80	5.40
	26	3.74	2.70	5.70
	27	5.91	5.00	7.70
	28	5.23	3.40	7.30
	29	4.79	3.60	8.00
	30	7.35	5.00	8.60
	31	4.12	3.60	5.70
May		5.17	2.70	8.60

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Jun				
	1	4.62	3.60	7.90
	2	7.10	6.20	7.90
	3	6.26	5.00	7.20
	4	4.82	4.10	5.90
	5	6.43	5.30	7.90
	6	7.80	6.40	11.00
	7	11.25	10.50	12.00
	8	11.16	6.90	12.70
	9	6.23	5.60	7.40
	10	7.87	5.80	9.20
	11	9.87	7.70	12.70
	12	12.17	10.60	12.60
	13	9.65	8.60	11.10
	14	10.28	9.40	12.30
	15	10.86	9.40	12.60
	16	9.45	8.60	10.60
	17	9.07	8.80	9.60
	18	9.30	8.90	10.10
	19	11.23	9.70	13.00
	20	10.31	9.50	11.90
	21	9.74	9.00	11.10
	22	9.21	8.90	9.50
	23	9.64	9.20	10.70
	24	10.71	9.70	11.30
	25	11.06	10.30	12.10
	26	11.70	10.70	12.80
	27	12.18	11.30	13.80
	28	13.67	12.30	14.70
	29	13.17	12.30	14.50
	30	14.35	13.10	15.60
Jun		9.71	3.60	15.60

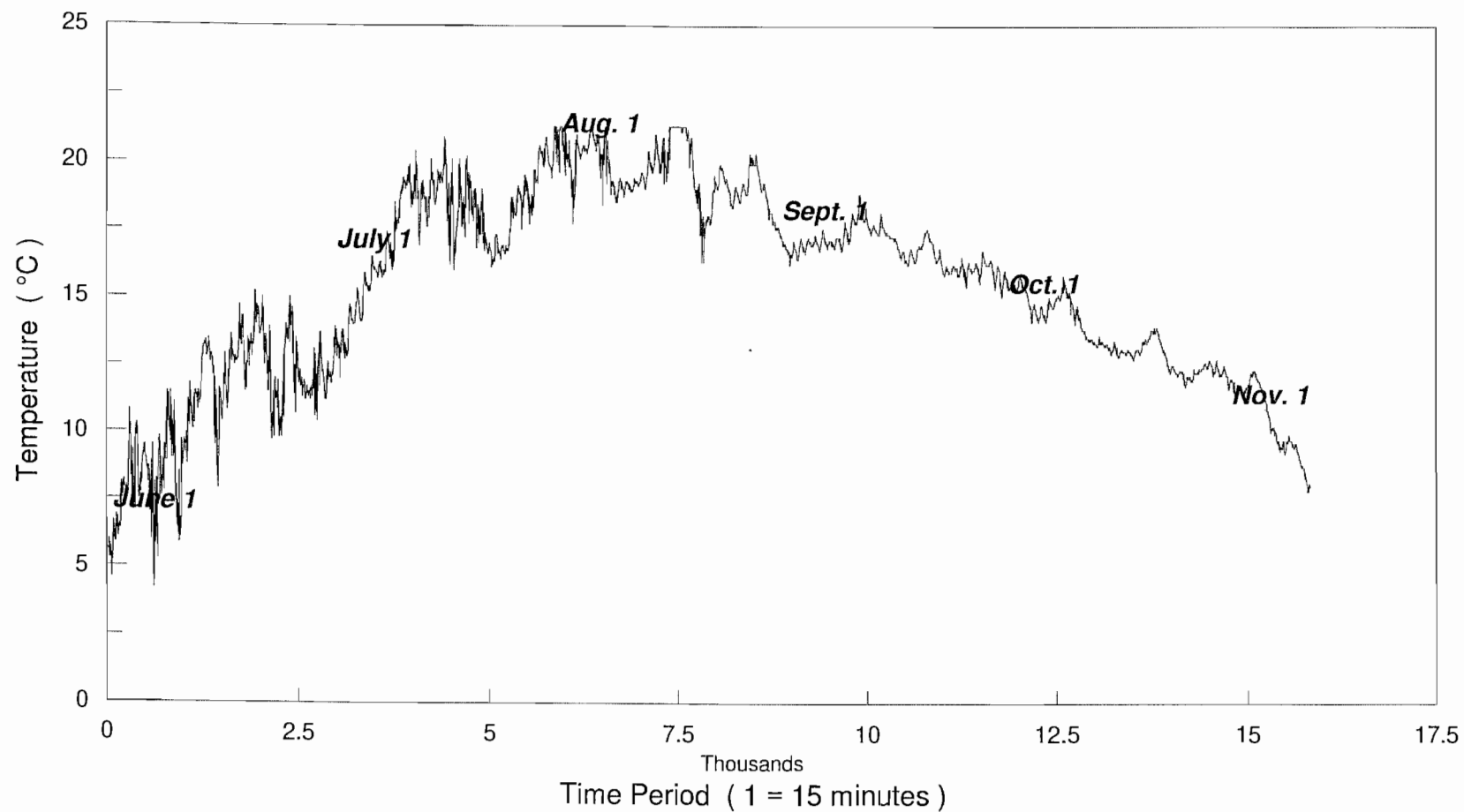
Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Jul				
	1	15.11	14.50	15.70
	2	15.21	14.60	16.40
	3	15.09	14.70	15.60
	4	16.10	15.30	18.20
	5	17.17	15.50	19.00
	6	16.06	15.50	16.60
	7	15.49	15.10	15.90
	8	15.17	14.80	15.90
	9	16.95	15.10	19.10
	10	15.57	13.20	18.50
	11	14.30	13.30	15.20
	12	15.14	14.50	15.90
	13	15.94	15.20	16.80
	14	16.23	15.50	16.80
	15	15.92	15.60	16.50
	16	15.97	15.40	16.60
	17	15.80	15.40	16.40
	18	16.56	16.10	16.80
	19	16.89	16.60	17.40
	20	17.39	17.10	17.80
	21	17.12	16.80	17.40
	22	16.86	15.50	17.50
	23	18.23	16.90	19.90
	24	19.44	18.50	20.00
	25	17.03	15.80	18.70
	26	17.93	17.20	18.90
	27	17.57	16.50	18.40
	28	17.22	16.40	20.00
	29	20.12	18.90	20.50
	30	20.44	19.50	20.80
	31	18.67	17.40	19.90
Jul		16.73	13.20	20.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Aug				
	1	17.72	17.00	18.90
	2	17.59	16.60	18.60
	3	18.17	17.10	19.30
	4	19.07	18.80	19.30
	5	19.13	19.00	19.30
	6	19.34	19.20	19.60
	7	19.30	19.10	19.50
	8	19.06	18.70	19.30
	9	18.53	18.20	18.90
	10	18.77	18.30	20.00
	11	19.46	18.80	20.20
	12	18.98	18.10	20.80
	13	19.25	16.70	20.90
	14	15.23	13.90	17.80
	15	15.35	14.30	17.90
	16	18.29	17.40	19.10
	17	19.00	18.50	19.30
	18	18.58	18.20	19.10
	19	18.40	18.10	18.70
	20	18.77	18.40	19.30
	21	19.21	18.80	20.00
	22	19.83	19.50	20.10
	23	18.91	18.40	19.60
	24	18.03	17.60	18.70
	25	17.58	17.40	17.70
	26	17.06	16.80	17.40
	27	16.75	16.60	16.90
	28	16.83	16.60	17.10
	29	17.06	16.90	17.20
	30	17.13	17.10	17.20
	31	17.19	16.80	17.50
Aug		18.18	13.90	20.90

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Sep	1	17.24	17.10	17.40
	2	17.21	17.10	17.30
	3	17.24	17.20	17.40
	4	17.49	17.20	17.80
	5	17.82	17.60	18.20
	6	17.88	17.70	18.20
	7	17.67	17.60	17.80
	8	17.65	17.40	18.10
	9	17.51	17.40	17.70
	10	17.28	17.00	17.40
	11	16.76	16.60	17.00
	12	16.62	16.40	16.90
	13	16.71	16.40	17.00
	14	17.23	16.90	17.60
	15	17.25	16.90	17.60
	16	16.39	16.00	16.90
	17	16.18	16.00	16.30
	18	16.19	16.10	16.40
	19	16.17	16.10	16.30
	20	16.26	16.00	16.50
	21	16.24	16.10	16.40
	22	16.30	16.10	16.60
	23	16.43	16.30	16.50
	24	16.20	16.00	16.40
	25	16.07	15.80	16.20
	26	15.91	15.60	16.20
	27	15.79	15.50	16.00
	28	14.93	14.50	15.50
	29	14.71	13.40	15.40
	30	13.63	13.20	14.40
Sep		16.65	13.20	18.20

Appendix 7.3.1

Water Temperature (°C) 26-May-95 to 06-Nov-95
C3 - 7m, Cardigan, P.E.I.



Probe Maximum = 21.3°C

APPENDIX 7.3.2 Daily and monthly average, minimum and maximum water temperature (°C) at Cardigan, PEI site C3 at 7m, 25-May-95 to 06-Nov-95. (Probe maximum = 21.3 °C)

Month	Day	Average Temperature (°C)	Minimum Temperature (°C)	Maximum Temperature (°C)
May	25	5.76	5.40	6.10
	26	5.89	4.60	6.90
	27	7.16	6.10	8.20
	28	8.63	7.60	10.80
	29	8.85	7.10	10.30
	30	8.66	7.50	9.50
	31	7.80	4.20	9.50
May		7.70	4.20	10.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Jun				
	1	7.86	4.70	9.80
	2	9.20	7.60	11.50
	3	9.91	7.40	11.50
	4	7.40	5.90	9.70
	5	10.02	8.80	11.80
	6	10.95	10.10	11.50
	7	12.17	11.00	13.30
	8	12.99	12.60	13.50
	9	10.50	7.90	12.40
	10	11.43	10.40	12.90
	11	12.59	10.80	13.60
	12	13.23	12.60	14.70
	13	12.88	11.50	14.30
	14	13.70	12.40	15.20
	15	14.14	13.50	15.00
	16	12.63	10.30	13.90
	17	10.89	9.70	12.00
	18	11.12	9.80	13.60
	19	14.06	12.90	15.00
	20	12.38	10.70	14.40
	21	11.62	11.20	12.00
	22	11.65	10.60	13.10
	23	12.39	10.40	13.70
	24	11.89	11.20	12.60
	25	12.73	11.80	13.90
	26	13.22	12.00	13.80
	27	13.66	12.70	14.70
	28	14.50	14.00	15.30
	29	14.90	14.10	15.90
	30	15.68	15.20	16.50
Jun		12.08	4.70	16.50

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Jul				
	1	16.00	15.70	16.30
	2	16.39	15.70	17.40
	3	16.81	16.00	18.50
	4	18.36	17.50	19.40
	5	19.28	18.80	19.90
	6	19.09	18.30	20.40
	7	18.46	16.90	19.30
	8	18.76	17.60	20.10
	9	19.06	18.40	19.70
	10	19.69	17.80	20.90
	11	18.00	16.00	20.10
	12	18.16	16.50	20.10
	13	18.71	17.20	20.20
	14	18.58	17.20	19.50
	15	17.87	16.80	19.00
	16	16.94	16.60	18.10
	17	16.68	16.10	17.30
	18	16.72	16.40	16.90
	19	17.36	16.70	18.70
	20	18.49	17.90	19.10
	21	18.79	17.50	19.50
	22	18.58	17.70	19.70
	23	19.91	19.20	20.60
	24	20.32	19.80	20.90
	25	20.29	19.40	21.30
	26	20.92	19.60	21.30
	27	20.18	19.40	21.10
	28	19.59	17.70	21.00
	29	20.40	20.10	20.60
	30	20.86	20.30	21.30
	31	20.73	19.70	21.20
Jul		18.71	15.70	21.30

Month	Day	Average Temperature (°C)	Minimum Temperature (°C)	Maximum Temperature (°C)
Aug				
	1	20.35	18.40	21.30
	2	19.58	18.80	20.80
	3	18.96	18.50	19.40
	4	19.08	18.70	19.30
	5	19.11	18.90	19.40
	6	19.35	19.10	19.60
	7	19.63	19.00	20.40
	8	20.18	19.60	21.00
	9	20.06	19.20	20.90
	10	20.47	19.30	21.30
	11	21.30	21.30	21.30
	12	21.26	21.10	21.30
	13	20.55	19.40	21.20
	14	18.76	17.30	19.40
	15	17.54	16.30	18.30
	16	18.39	17.70	19.50
	17	19.47	19.00	19.90
	18	19.24	18.80	19.70
	19	18.69	18.30	19.10
	20	18.84	18.50	19.20
	21	19.40	18.80	20.30
	22	19.93	19.50	20.30
	23	19.08	18.70	19.50
	24	18.17	17.70	18.70
	25	17.54	17.20	17.80
	26	16.95	16.60	17.30
	27	16.69	16.20	17.10
	28	16.77	16.40	17.20
	29	16.94	16.60	17.20
	30	17.05	16.90	17.30
	31	17.07	16.70	17.50
Aug		18.92	16.20	21.30

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Sep	1	17.02	16.80	17.20
	2	17.05	16.80	17.20
	3	17.17	16.70	17.80
	4	17.51	17.00	18.10
	5	18.11	17.70	18.80
	6	17.92	17.60	18.30
	7	17.51	17.30	17.70
	8	17.55	17.30	18.10
	9	17.35	17.20	17.60
	10	17.12	16.80	17.20
	11	16.61	16.30	16.80
	12	16.48	16.20	16.80
	13	16.57	16.30	16.90
	14	17.12	16.80	17.50
	15	17.09	16.60	17.50
	16	16.45	16.20	16.80
	17	16.00	15.80	16.20
	18	16.04	15.90	16.20
	19	16.07	15.80	16.50
	20	15.96	15.40	16.30
	21	16.09	15.90	16.30
	22	16.16	15.50	16.70
	23	16.26	16.10	16.40
	24	15.85	15.30	16.20
	25	15.56	15.00	16.00
	26	15.48	15.30	15.70
	27	15.54	15.20	15.90
	28	15.27	14.80	15.70
	29	14.56	14.10	14.80
	30	14.41	14.10	14.70
Sep		16.46	14.10	18.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Oct	1	14.50	14.10	15.00
	2	14.80	14.60	15.00
	3	15.23	14.90	15.80
	4	15.08	14.40	15.50
	5	14.41	14.00	14.80
	6	13.81	13.50	14.30
	7	13.44	13.30	13.50
	8	13.32	13.20	13.60
	9	13.27	13.10	13.40
	10	13.11	12.90	13.40
	11	12.97	12.80	13.20
	12	12.99	12.90	13.10
	13	12.92	12.70	13.10
	14	13.18	12.90	13.50
	15	13.56	13.30	13.80
	16	13.72	13.50	13.90
	17	13.06	12.50	13.40
	18	12.41	12.20	12.60
	19	12.23	12.10	12.30
	20	12.00	11.70	12.30
	21	12.09	11.90	12.40
	22	12.32	12.20	12.60
	23	12.55	12.40	12.70
	24	12.39	12.10	12.70
	25	12.25	12.10	12.50
	26	11.92	11.60	12.20
	27	11.56	11.20	11.90
	28	11.56	11.30	11.80
	29	12.11	11.70	12.30
	30	11.86	11.50	12.20
	31	10.99	10.30	11.50
Oct		12.96	10.30	15.80

Month	Day	Average Temperature (°C)	Miniumum Temperature (°C)	Maximum Temperature (°C)
Nov	1	10.03	9.70	10.30
	2	9.51	9.30	9.70
	3	9.63	9.20	9.90
	4	9.45	9.10	9.60
	5	8.70	8.30	9.10
	6	8.02	7.80	8.30
Nov		9.30	7.80	10.30

