

**Click Here
To Start**



**PRMRWSA
TREATMENT
FACILITY**

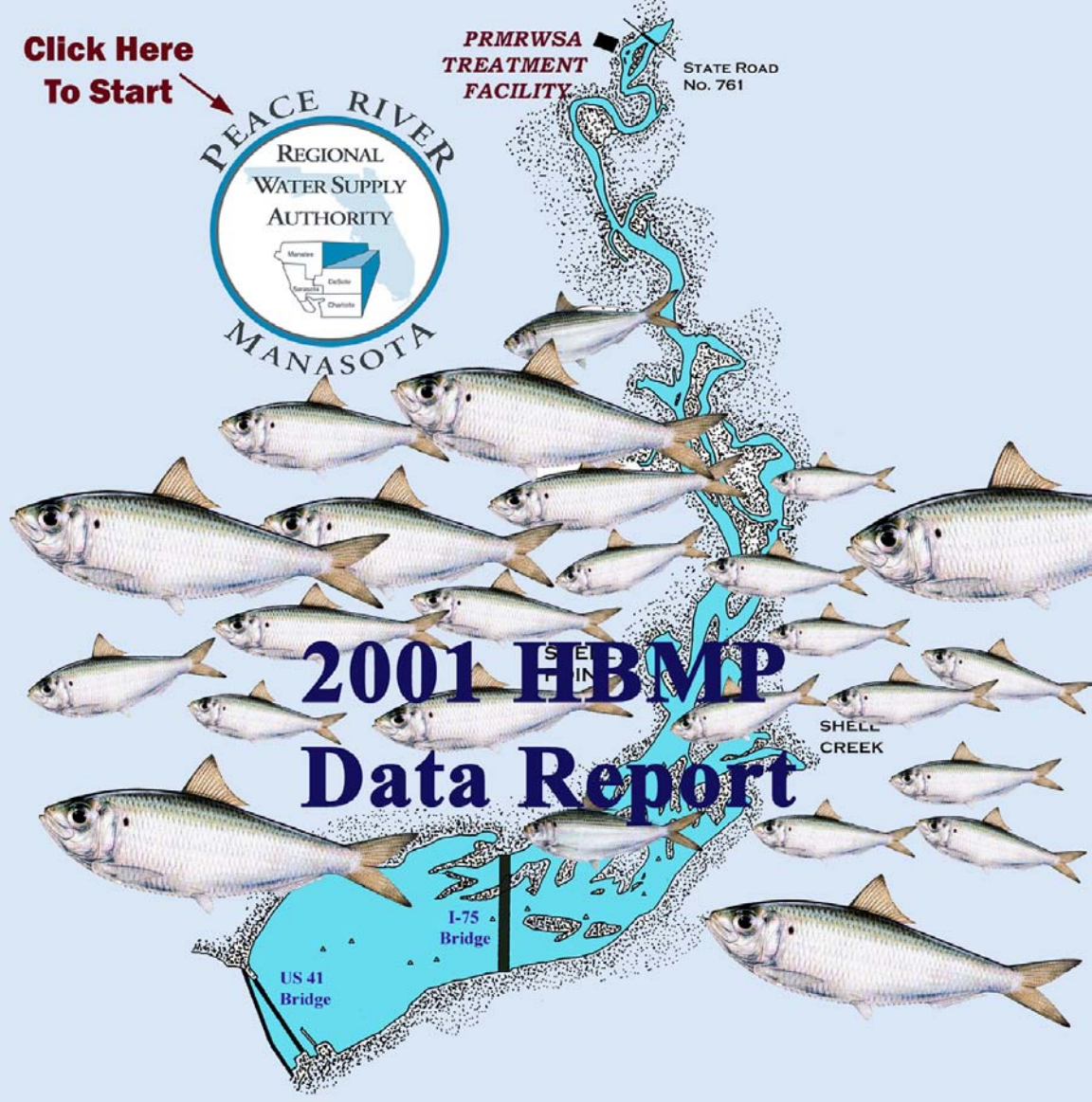
STATE ROAD
No. 761

2001 IBMP Data Report

SHELL
CREEK

I-75
Bridge

US 41
Bridge





Back to Start

TABLE OF CONTENTS

ACKNOWLEDGEMENTS

LIST OF TABLES

LIST OF FIGURES

	Page #
1.0 INTRODUCTION/SUMMARY	
1.1 Previous Studies and Reports	1-1
1.2 Current Hydrobiological Monitoring Program	1-2
1.2.1 Ongoing HBMP Program Study Elements	1-2
1.2.2 Continuous Recorders	1-3
1.2.3 Water Chemistry and Water Column Profiles	1-3
1.2.4 HBMP Study of Long-Term Changes in Vegetation	1-4
1.2.5 Phytoplankton Studies	1-5
1.3 Special Studies Associated with the HBMP	1-6
1.3.1 Morphometric Investigations	1-6
1.3.2 Benthic Macroinvertebrate and Mollusc Study	1-6
1.3.3 Fish Nursery Study	1-7
1.3.4 Fixed Station Modeling	1-8
1.4 Summary of 2001 Results	1-8
1.5 Conclusions.....	1-10
1.6 Permanent Data.....	1-11
 2.0 PEACE RIVER GAGED FLOWS AND REGIONAL WATER SUPPLY FACILITY WITHDRAWALS.....	 2-1
 3.0 PHYTOPLANKTON AND WATER CHEMISTRY AT “MOVING” ISOHALINE LOCATIONS	
3.1 Introduction.....	3-1
3.1.1 Current Long-Term Phytoplankton Study Elements	3-1
3.2 Methods for Phytoplankton Study Elements	3-3
3.2.1 <i>In Situ</i> Measurements of Physical Parameters	3-3
3.2.2 Light Profile	3-4
3.2.3 Chlorophyll <i>a</i>	3-4
3.2.4 Water Chemistry	3-4
3.2.5 Population Structure	3-4
3.2.6 Taxonomic Determinations of Phytoplankton Community Structure.....	3-5

3.3 Physical and Water Chemistry Data Collected in the “Moving”
Isohaline Locations in Conjunction with Phytoplankton Study
Elements..... 3-6

3.4 Summary 3-8

**4.0 WATER CHEMISTRY DATA COLLECTED AT FIXED STATION
LOCATIONS**

4.1 Introduction..... 4-1

4.2 Description of Fixed Station Data Collection..... 4-2

4.3 Data Collection and Analyses..... 4-2

4.4 Results and Conclusions 4-3

 4.4.1 Physical Water Column Characteristics (2001) 4-3

 4.4.2 Chemical Water Quality Characteristics 4-4

 4.4.3 Long-Term Physical and Chemical Water Quality
Characteristics (1976-2001) 4-6

5.0 CONTINUOUS RECORDERS

5.1 Overview..... 5-1

5.2 Field Activities Continuous Recorder Sites..... 5-1

5.3 Results USGS Continuous Recorders (2001) 5-2



Back to Start



[Back to Start](#)

ACKNOWLEDGMENTS

The raw data, as well as the methods sections, presented in this report for the calendar year 2001, were provided by each of the contractors responsible for conducting specific elements of the Hydrobiological Monitoring Program.

- **ASCI/EQL** - was responsible for all of the chemical analyses of water quality parameters.
- **Florida Environmental** - was responsible for all *in situ* water column physical measurements and the collection of water chemistry samples for both the “fixed” and “moving” station elements of the HBMP.
- **U.S. Geological Survey** - was responsible for all data collected by the three tide gauges and the associated measurements of surface and bottom conductivity.
- **U.S. Geological Survey (Tampa Office)** – provided all flow data used in this study.
 1. Peace River at Arcadia (02296750)
 2. Horse Creek near Arcadia (02297310)
 3. Joshua Creek near Nocatee (02297100)
 4. Shell Creek near Punta Gorda (02298202)
- **Peace River/Manasota Regional Water Supply Authority** - provided daily measurements of daily withdrawals by the facility.
- **Dr. Susan Jensen** - conducted all phytoplankton taxonomic identifications.



[Back to Start](#)



[View File of All
Tables Not In Text](#)

LIST OF TABLES

- Table 1.1 HBMP Fixed Sampling Locations
Table 1.2 HBMP Chemical Water Quality Measurements
Table 1.3 Description of Data Sets
- Table 2.1 Comparisons of Freshwater Inflows during 2001 and the Period 1976-2000.
Table 2.2 Comparisons of Facility Withdrawals and Freshwater Inflows during 2001 and the Period 1976-2001.
Table 2.3 Long-Term Yearly Mean Measurements of Peace River Flows and Facility Withdrawals
- Table 3.1 Summary Statistics of the Four Isohaline Locations (Kilometers) from the Peace River's Mouth for the Period 1983-2001.
Table 3.2 Comparisons of Isohaline Locations during 2001 and the Period 1983-2001.
Table 3.3 Water Chemistry Methods
Table 3.4 Physical and Chemical Parameters
Table 3.5 Physical and Chemical Parameters - Nutrients
Table 3.6 Determination of Chlorophyll *a* by Size Fraction
Table 3.7 Summary Tables and Graphics of Key Physical and Chemical Measurements for Data Collected in 2001 at the Four Isohaline Locations.
Table 3.8 Summary Graphics of Key Physical and Chemical Measurements for Data Collected during the Period 1983-2001 at the four Isohaline Locations.
Table 3.9 Mean Values for Key Physical, Chemical and Biological Measurements by Isohaline
- Table 4.1 Fixed Sample Locations
Table 4.2 Summary Graphics of Mean Physical Water Column *In Situ* Water Quality Measurements for Data Collected during 2001 at the Fixed Sampling Locations
Table 4.3 Summary Graphics of Chemical Water Quality Measurement for Data Collected during 2001 at the Fixed Sampling Locations (River Kilometers – 2.4, 6.6, 15.5, 23.6 and 30.4)
Table 4.4 Selected Long-Term Physical and Chemical Water Quality Data Collected during the Period 1976-1989 and 1996-2001 at the Fixed Sampling Locations (River Kilometers – 2.4, 6.6, 15.5, 23.6 and 30.4)

Table 5.a USGS Gage Locations

Table 5.1 Summary Graphics of Data from USGS Continuous Recorders

Table 5.2 Summary Graphics of Comparisons of Stage Height and Surface and Bottom Conductivity at the Continuous Recorders



[Back to Start](#)

[Back to Start](#)[View File
Containing
All Figures](#)

LIST OF FIGURES

- Figure 1.1 Study area.
Figure 1.2 Fixed Sampling Station Locations.
Figure 1.3 Vegetation Transect Locations.
- Figure 2.1a Daily Peace River Flow at Arcadia (2001).
Figure 2.1b Daily Peace River Flow at Arcadia in Relation to Long-Term Statistical Averages.
Figure 2.2 Daily Peace River Flow at Arcadia (1976-2001).
Figure 2.3 Monthly Mean Peace River Flow at Arcadia (1976-2001).
Figure 2.4 3-Month Moving Average Peace River Flow at Arcadia (1976-2001).
Figure 2.5 Daily Peace River Flow at Arcadia + Horse + Joshua + Shell (2001).
Figure 2.6 Daily Peace River Flow at Arcadia + Horse + Joshua + Shell (1976-2001).
Figure 2.7 Monthly Mean Peace River Flow at Arcadia + Horse + Joshua + Shell (1976-2001).
Figure 2.8 3-Month Moving Average Peace River Flow at Arcadia + Horse + Joshua + Shell (1976-2001).
Figure 2.9 Daily Water Treatment Facility Withdrawals (2001).
Figure 2.10 Daily Water Treatment Facility Withdrawals (1980-2001).
Figure 2.11 Monthly Mean Water Treatment Facility Withdrawals (1980-2001).
Figure 2.12 3-Month Moving Average Water Treatment Facility Withdrawals (1980-2001).
Figure 2.13 Peace River Flows at Arcadia and Water Treatment Facility Withdrawals (2001).
Figure 2.14 Peace at Arcadia + Horse + Joshua + Shell Flows and Water Treatment Facility Withdrawals (2001).
Figure 2.15 Peace River Flows at Arcadia vs. Water Treatment Facility Withdrawals (2001).
Figure 2.16 Peace River Flows at Arcadia vs. % Water Treatment Facility Withdrawals (2001).
- Figure 3.1 Study area with most upstream and downstream locations of salinity sampling zones.
Figure 3.2 Relative distance (km) from the Mouth of the River – 2001.
Figure 3.3 Relative distance from the Mouth of the River of 0 and 6 ppt salinity sampling zones (1983-2001).
Figure 3.4 Relative distance from the Mouth of the River of 12 and 20 ppt salinity sampling zones (1983-2001).
Figure 3.5 Box & Whiskers of relative distance (km) from the Mouth of the River.

LIST OF FIGURES (continued)

- Figure 3.6 2001 Temperature at salinity sampling zones.
Figure 3.7 2001 Color at salinity sampling zones.
Figure 3.8 2001 Extinction Coefficient at salinity sampling zones.
Figure 3.9 2001 Nitrite/Nitrate at salinity sampling zones.
Figure 3.10 2001 Ortho-Phosphorus at salinity sampling zones.
Figure 3.11 2001 Atomic N/P Ratio at salinity sampling zones.
Figure 3.12 2001 Silica at salinity sampling zones.
Figure 3.13 2001 Chlorophyll *a* (mg/m³) at salinity sampling zones.
Figure 3.14 Chlorophyll *a* (mg/m³) Among Size Fractions.
Figure 3.15 Percent Chlorophyll *a* Among Size Fractions.
Figure 3.16 1983-2001 Temperature at salinity sampling zones.
Figure 3.17 1983-2001 Color at salinity sampling zones.
Figure 3.18 1983-2001 Extinction Coefficient at salinity sampling zones.
Figure 3.19 1983-2001 Nitrite/Nitrate at salinity sampling zones.
Figure 3.20 1983-2001 Ortho-Phosphorus at salinity sampling zones.
Figure 3.21 1983-2001 Atomic Nitrogen/Phosphorus Ratio at salinity sampling zones.
Figure 3.22 1983-2001 Silica at salinity sampling zones.
Figure 3.23 1983-2001 Chlorophyll *a* (mg/m³) at salinity sampling zones.
Figure 3.24 Box and Whisker Plots of Temperature at salinity sampling zones (2001) & (1983-2000).
Figure 3.25 Box and Whisker Plots of Color at salinity sampling zones (2001) & (1983-2000).
Figure 3.26 Box and Whisker Plots of Extinction Coefficient at salinity sampling zones (2001) & (1983-2000).
Figure 3.27 Box and Whisker Plots of Nitrite/Nitrate at salinity sampling zones (2001) & (1983-2000).
Figure 3.28 Box and Whisker Plots of Ortho-Phosphorus at salinity sampling zones (2001) & (1983-2000).
Figure 3.29 Box and Whisker Plots of Atomic N/P Ratio at salinity sampling zones (2001) & (1983-2000).
Figure 3.30 Box and Whisker Plots of Silica at salinity sampling zones (2001) & (1983-2000).
Figure 3.31 Box and Whisker Plots of Chlorophyll *a* (mg/m³) at salinity sampling Zones (2001) & (1983-2000).
Figure 4.1 Fixed Station Locations.
Figure 4.2a Average Temperature at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.2b Average Temperature at River Kilometers 12.7, 12.8, 15.5 and 17.5
Figure 4.2c Average Temperature at River Kilometers 20.1, 21.9, 23.6 and 24.7
Figure 4.2d Average Temperature at River Kilometers 25.9, 29.5, 30.4 and 32.3
Figure 4.3a Average Dissolved Oxygen at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.3b Average Dissolved Oxygen at River Kilometers 12.7, 12.8, 15.5 and 17.5

LIST OF FIGURES (continued)

- Figure 4.3c Average Dissolved Oxygen at River Kilometers 20.1, 21.9, 23.6 and 24.7
- Figure 4.3d Average Dissolved Oxygen at River Kilometers 25.9, 29.5, 30.4 and 32.3
- Figure 4.4a Average pH at River Kilometers –2.4, 6.6, 8.4 and 10.5
- Figure 4.4b Average pH at River Kilometers 12.7, 12.8, 15.5 and 17.5
- Figure 4.4c Average pH at River Kilometers 20.1, 21.9, 23.6 and 24.7
- Figure 4.4d Average pH at River Kilometers 25.9, 29.5, 30.4 and 32.3
- Figure 4.5a 1% Light Depth at River Kilometers –2.4, 6.6, 8.4 and 10.5
- Figure 4.5b 1% Light Depth at River Kilometers 12.7, 12.8, 15.5 and 17.5
- Figure 4.5c 1% Light Depth at River Kilometers 20.1, 21.9, 23.6 and 24.7
- Figure 4.5d 1% Light Depth at River Kilometers 25.9, 29.5, 30.4 and 32.3
- Figure 4.6a Average Specific Conductance at River Kilometers –2.4, 6.6, 8.4 and 10.5
- Figure 4.6b Average Specific Conductance at River Kilometers 12.7, 12.8, 15.5 and 17.5
- Figure 4.6c Average Specific Conductance at River Kilometers 20.1, 21.9, 23.6 and 24.7
- Figure 4.6d Average Specific Conductance at River Kilometers 25.9, 29.5, 30.4 and 32.3
- Figure 4.7a Color at fixed sampling stations – Surface
- Figure 4.7b Color at fixed sampling stations – Bottom
- Figure 4.8a Turbidity at fixed sampling stations – Surface
- Figure 4.8b Turbidity at fixed sampling stations – Bottom
- Figure 4.9a Total Suspended Solids at fixed sampling stations – Surface
- Figure 4.9b Total Suspended Solids at fixed sampling stations – Bottom
- Figure 4.10a Nitrite/Nitrate at fixed sampling stations – Surface
- Figure 4.10b Nitrite/Nitrate at fixed sampling stations – Bottom
- Figure 4.11a Total Kjeldahl Nitrogen at fixed sampling stations – Surface
- Figure 4.11b Total Kjeldahl Nitrogen at fixed sampling stations – Bottom
- Figure 4.12a Total Phosphorus at fixed sampling stations – Surface
- Figure 4.12b Total Phosphorus at fixed sampling stations – Bottom
- Figure 4.13a Total Organic Carbon at fixed sampling stations – Surface
- Figure 4.13b Total Organic Carbon at fixed sampling stations – Bottom
- Figure 4.14a Silica at fixed sampling stations – Surface
- Figure 4.14b Silica at fixed sampling stations – Bottom
- Figure 4.15a Chlorophyll *a* at fixed sampling stations – Surface
- Figure 4.15b Chlorophyll *a* at fixed sampling stations – Bottom
- Figures 4.16a through 4.16e - Surface Salinity River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figures 4.17a through 4.17e - Bottom Salinity River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figures 4.18a through 4.18e - Surface Dissolved Oxygen Levels River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figures 4.19a through 4.19e - Bottom Dissolved Oxygen Levels River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4

LIST OF FIGURES (continued)

- Figures 4.20a through 4.20e - Surface Water Color River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figures 4.21a through 4.21e - Bottom Water Color River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figures 4.22a through 4.22e - Surface Turbidity River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figures 4.23a through 4.23e - Bottom Turbidity River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.24a through 4.24e - Surface Nitrite/Nitrate Nitrogen Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.25a through 4.25e - Bottom Nitrite/Nitrate Nitrogen Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.26a through 4.26e - Surface Total Kjeldahl Nitrogen Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.27a through 4.27e - Bottom Total Kjeldhal Nitrogen Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.28a through 4.24e - Surface Ortho-phosphorus Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.29a through 4.25e - Bottom Ortho-phosphorus Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.30a through 4.24e - Surface Silica Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.31a through 4.25e - Bottom Silica Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.32a through 4.24e - Surface Total Organic Carbon Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.33a through 4.25e - Bottom Total Organic Carbon Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.34a through 4.24e - Surface Chlorophyll a Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 4.35a through 4.25e - Bottom Chlorophyll a Concentrations River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4
- Figure 5a Locations of three USGS recorders
- Figure 5.1 Gage Height (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)
- Figure 5.2 Surface conductivity (15-minute intervals) for Peace River fixed Station 02297460 (River kilometer)
- Figure 5.3 Bottom conductivity (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)
- Figure 5.4 Surface temperature (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)

LIST OF FIGURES (continued)

- Figure 5.5 Bottom temperature (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer)
- Figure 5.6 Gage Height (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
- Figure 5.7 Surface conductivity (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
- Figure 5.8 Bottom conductivity (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
- Figure 5.9 Surface temperature (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
- Figure 5.10 Bottom temperature (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
- Figure 5.11a Gage Height (15-minute intervals) for Boca Grande
- Figure 5.11b Gage Height (15-minute intervals) for Boca Grande
- Figure 5.12 Surface Conductivity and Stage Height in May - Station 02297460 (River Kilometer 15.5)
- Figure 5.13 Bottom Conductivity and Stage Height in May – Station 02297460 (River Kilometer 15.5)
- Figure 5.14 Surface & Bottom Conductivity in May - Station 02297460 (River Kilometer 15.5)
- Figure 5.15 Surface Conductivity and Stage Height in September -Station 02297460 (River Kilometer 15.5)
- Figure 5.16 Bottom Conductivity and Stage Height in September – Station 02297460 (River Kilometer 15.5)
- Figure 5.17 Surface & Bottom Conductivity in September – Station 02297460(River Kilometer 15.5)
- Figure 5.18 Surface Conductivity and Stage Height in May - Station 02297350 (River Kilometer 26.7)
- Figure 5.19 Bottom Conductivity and Stage Height in May - Station 02297350 (River Kilometer 26.7)
- Figure 5.20 Surface & Bottom Conductivity in May – Station 02297350 (River Kilometer 26.7).
- Figure 5.21 Surface Conductivity and Stage Height in September - Station 02297350 (River Kilometer 26.7)
- Figure 5.22 Bottom Conductivity and Stage Height in September - Station 02297350 (River Kilometer 26.7)
- Figure 5.23 Surface & Bottom Conductivity in September - Station 02297350 (River Kilometer 26.7)



[Back to Start](#)

[Back to Start](#)[Next Chapter](#)

Chapter I

Introduction / Summary

1.1 Previous Studies and Reports

On December 10, 1975, the consumptive use permit #7500016 for the Peace River Regional Water Supply Facility was signed between General Development Utilities, Inc. and the Southwest Florida Water Management District (SWFWMD). In conjunction with this agreement, a comprehensive Hydrobiological Monitoring Program (HBMP), was set forth to assess the responses of various physical, chemical and biological characteristics of the Charlotte Harbor estuary to changes in Peace River flow. The program was designed to evaluate the impacts and significance of natural salinity changes on the aquatic fauna and flora in upper Charlotte Harbor, and to determine if freshwater withdrawals by the Peace River Regional Water Supply Facility could be shown to alter these patterns. The area of study is shown in [Figure 1.1](#).

Between 1979 and 2001, a series of over twenty individual reports have been submitted to SWFWMD, documenting the results of the HBMP during the period from January 1976 through December 2000. These reports include summarizations (findings) of data collected during the first four years of baseline monitoring, prior to the start of freshwater withdrawals, as well as comparisons of these data to the results obtained from the HBMP during subsequent years of water treatment plant operation. The period covered within this Annual Data Report follows directly upon that contained within the preceding data report submitted in June 2001, and includes unreported data collected from January through December 2001. This represents the twelfth year of data collection for the Peace River/Manasota Regional Water Supply Authority, owner/operator of the Peace River Regional Water Supply Facility.

The initial HBMP was designed in 1976 to provide answers to specific questions dealing with possible salinity changes in Charlotte Harbor raised by SWFWMD staff during the original permitting process. Analysis of data from pre and post water treatment plant operation, presented in the August 1982 Summary Report, indicated the need to revise the monitoring program in order to better evaluate possible changes in the Charlotte Harbor system due to natural variations in freshwater inflows. Further modifications of the HBMP were made in 1985 and again in conjunction with the renewal of the consumptive use permit in November 1988. Under the 1988 permit, data reports were required to annually be submitted for the first through fifth years of the monitoring program. In addition two expanded, Comprehensive Summary Reports were submitted which included various comparative analyses of the data reported over the preceding periods of data. The first of these Comprehensive Summary Reports was finalized in December 1993 and included analyses of long-term data collected between 1983 and 1991.

The next Comprehensive Summary Report was filed in draft form in 1994, and as a final report in April 1995. This second summary report statistically summarized and evaluated the results of the HBMP elements conducted between 1976 and 1993. In this document it was stated that, “To date, no observed short-term seasonal or long-term trends in any of the physical/chemical or biological parameters measured in this extensive investigation of the Upper Charlotte Harbor estuary have shown any influence by current water withdrawals by the Peace River Regional Water Facility”. The most recent Comprehensive Summary Report was the initial Year Three Summary Report required under the current permit, which was submitted to the District for review in October 2000 and as in final form in March 2002. The findings within this document further supported the previous findings regarding the potential magnitude of the changes that might be attributed directly to Facility withdrawals.

- “In response to increasing potable water demand Peace River Facility withdrawals have steadily and progressively increased since being initiated in 1980. However, the magnitude of withdrawals has remained extremely small when compared to the natural seasonal variability. Currently withdrawals comprise less than 1% of total freshwater flow at the mouth of the Peace River.”
- Salinity “model results indicated that, on average, the influences of past withdrawals on the salinity structure of the Lower Peace River between the U.S. 41 Bridge and the Peace River Facility has historically resulted in maximum changes of less than 0.3 ppt. These model results also indicated that the largest changes resulting from past withdrawals have occurred between river kilometers 14 and 18 in the Lower Peace River.”
- “Statistical models were also used to predict what the potential magnitude of salinity changes might be under the maximum permitted daily withdrawals during Arcadia flows between 200 and 1,000 cfs. Model results predict that a maximum salinity change of < 0.5 ppt would occur between river kilometers 14 and 18 when Arcadia flows range between 400 and 1000 cfs. With Arcadia flows of 200 cfs, the results predict that similar changes in salinity (< 0.5 ppt) would occur further upstream.”
- “Long-term comparisons of upstream and downstream occurrences of selected indicator plant species along the Lower Peace River indicate that the distribution of most species has varied very little over time.”

1.2 Current Hydrobiological Monitoring Program

Based on the results of these summary reports, and additional analyses requested by District staff during the permit renewal process, an expanded HBMP was approved by the District in March 1996 as a part of WUP#2010420.03 for implementation in 1996 and subsequent years. This 20 year Water Use Permit continues to require the submission of both Annual Data Reports as well as Comprehensive Summary Documents after data collection for the 3rd and 5th years of each five year period. Specific conditions within the permit include major expansions of both the physical and biological elements of the Hydrobiological Monitoring Program.

1.2.1 Ongoing HBMP Program Study Elements

An explicit element of the updated HBMP was the development of standardized station descriptors to be applied across all program elements. As part of the required morphometric study (see description below), the “mouth” of the Peace River was defined using USGS standardized protocols as an imaginary line extending from Punta Gorda Point to Hog Island (**Figure 1.2**). **Table 1.1** provides a summary of the locations of all of the ongoing long-term fixed study elements, and provides a cross-reference to previous station identifications. The following briefly outlines each of the current HBMP study elements.

1.2.2 Continuous Recorders

The primary goal of this element of the HBMP was to develop an extensive database of short-term (daily or more frequent) changes in surface and near bottom salinity in the lower Peace River. These data, combined with corresponding gage height, freshwater flows and withdrawals would then be used to develop detailed spatial and temporal relationships. A secondary goal was to assess potential long-term changes in river salinity, which might be explained by predicted increases in sea level.

In 1996 the U.S. Geological Survey (USGS) installed automated 15-minute interval water level recorders at two locations:

- At Boca Grande which is the estuary’s largest opening to the Gulf of Mexico; and
- Approximately 15.5 kilometers upstream of the river’s mouth at Harbour Heights. The gaging station at Harbour Heights also measures surface and bottom conductivity at 15-minute intervals.

In November 1997 a third gage was installed at approximately river kilometer (RK) 26.7 just downstream of the Peace River Facility. This gage also measures both water level as well as surface and bottom conductivity at 15-minute intervals. The relative locations of each of these three USGS gages are depicted in **Figure 5.a**.

1.2.3 Water Chemistry and Water Column Physical Profiles

There are a number of goals associated with the study elements in which physical and chemical water quality are measured. On an overall “Health of the Harbor” level, a primary goal is to collect sufficient long-term data to statistically describe spatial and seasonal variability in the water quality characteristics of the Lower Peace River/Upper Charlotte Harbor estuary, and test for significant changes over time (trends). A second goal is to determine if significant relationships exist between freshwater inflows and the seasonal/spatial variability of these water quality parameters. If such relationships can be shown, then the ultimate goal is to determine the potential magnitude of change that might result from permitted withdrawals, and compare such predictions with the range of observed natural variability.

Physical and chemical water quality parameters are measured within the Lower Peace River/Upper Charlotte Harbor estuary under two different HBMP study elements.

1. During the first week of each month, water quality measurements (physical and chemical) are conducted at four “moving” salinity based isohaline locations (0, 6, 12 and 20 ppt) along a river kilometer center-line running from the imaginary “mouth” of the Peace River upstream to above its junction with Horse Creek, and downstream to Boca Grande Pass. The relative monthly location of each sampling is based on the first occurrence of these specific isohalines (± 0.5 ppt), with freshwater being defined as the first occurrence of conductivities less than 500 μS . The isohaline sampling effort is undertaken in conjunction with the long-term phytoplankton elements of the HBMP.
2. Approximately two weeks after the collection of the “moving” isohalines water column physical profiles are conducted, near high tide, at sixteen locations along a transect running from just below the river’s mouth upstream to a point just above the Peace River Facility (see [Figure 1.2](#) and [Table 1.1](#)). In addition, chemical water quality samples are taken at five of these locations.

Both of these water quality study HBMP elements include physical *in situ* water column profile measurements of characteristic parameters (temperature, dissolved oxygen, pH, conductivity and salinity) at 0.5 meter intervals from the surface to the bottom. In addition both efforts measure the penetration of photosynthetically active radiation (PAR) to determine ambient extinction coefficients at specific sampling locations. Both studies also include the analyses of an extensive list of chemical water quality parameters ([Table 1.2](#)). The only difference is that at the “fixed” sampling stations both sub-surface and near-bottom samples are collected at each of the five sites, while only sub-surface water chemistry samples are taken as part of “moving” isohaline phytoplankton/production study element.

During 2001 an effort was made to standardize and better coordinate both the “moving” and “fixed” elements of the HBMP. Florida Environmental (FE) conducted all fieldwork (physical water column profile measurements and water chemistry sampling) associated with both monitoring elements. All 2001 water chemistry analyses were conducted by ASCI/EQL.

1.2.4 HBMP Study of Long-Term Changes in Vegetation

Identification of potential adverse effects to emergent vegetation and riverine wetlands caused by freshwater withdrawals initially requires determining the magnitude of the spatial and temporal responses of these vegetative communities to the natural variation resulting from extended periods of drought and flood. This step involves developing methodologies that allow differentiating between long-term natural changes in riverine vegetative patterns and withdrawal induced changes. The vegetative monitoring elements of the HBMP provide information for determining relationships between vegetation patterns and freshwater flows by observing the positions of the freshwater and salt-tolerant plant communities, especially in the salinity transitional zone of the river. A permanent shift of more salt-tolerant plants upriver could be an indication that withdrawals were impacting the river corridor wetlands, as long as natural

variability (drought) or man-made causes could be eliminated. Florida Environmental is currently doing all vegetation elements of the HBMP studies.

Photointerpretation - This long-term element of the HBMP initially began in 1976. Initially aerial infra-red photography was taken yearly of the vegetative communities along the lower Peace River, starting at the US 41 Bridge (river kilometer 6.6) and extending upstream above the Peace River Facility to near the area where Horse Creek enters the river (river kilometer 39.5). Under the 1996 HBMP permit modifications, such aerial surveys continue to be conducted at two years intervals. All post-1996 aerial photography is taken in a corrected, GIS compatible format, thus allowing for accurate quantification of any observed changes. Photointerpretation of these images, in conjunction with field observations, will periodically be used to develop maps of the river's vegetation associations. Both qualitative and quantitative data is being used to assess potential changes associated with extended natural periods of both low and high freshwater inflows.

First and Last Occurrence of Indicator Plant Species – Since 1976, at approximately two year intervals, the first and last occurrence of a large number of indicator plant species has been recorded along the banks of the Peace River downstream of the Peace River Facility. As part of the vegetation study element of the HBMP, detailed maps using the standardized river kilometer scale are made, identifying the first and last occurrences of individual and substantial populations of key indicator species. The current permit requires a detailed photographic record be compiled in conjunction with this effort. These data are used in conjunction with the aerial photography to assess the influences of long-term natural variations in river flow.

Vegetation Transition Sites – Under the current permit, this portion of the HBMP study extends and expands the detailed monitoring begun in 1979 of plant communities along the river's banks at fixed locations. The vegetative communities at three permanent transects sites (see [Figure 1.3](#) and [Table 1.1](#)) are sampled at two year intervals. At each monitoring location, three transects from the top of the bank to the water's edge are surveyed. The vegetation one meter to each side of the transects is identified, and the location and density recorded. These long-term data can be used to further assess the response of the riverine vegetative communities to natural variations in freshwater flows.

1.2.5 Phytoplankton Studies

Sub-surface samples are being collected in conjunction with the “moving” isohaline sampling of physical and chemical water quality characteristics described above.

Carbon Uptake – From June 1983 through December 1999, replicate (5) rates of carbon uptake were determined for each of three separate phytoplankton size fractions: 1) greater than 20 microns; 2) less than 20 microns and greater than 5 microns; and 3) those cells less than 5 microns at each of the four “moving” isohalines (0, 6, 12 and 20 ppt). Based on the extensive nature of the database gathered, further *in situ* carbon uptake measurements were deleted from the HBMP in 2000.

Chlorophyll *a* Biomass – Although direct carbon uptake measurements have been deleted from the HBMP, sub-surface samples for the measurement of chlorophyll *a* continue to be taken with regard to the estimation of phytoplankton biomass within each of the above three size fractions.

Species Composition - Since 1989, monthly sub-surface samples have been collected, preserved and identified to the lowest practical taxon in conjunction with the carbon uptake measurements at each of the four isohalines. Dr. Susan Jensen has made all taxonomic identifications.

1.3 Special Studies Associated with the HBMP

In addition to the current, ongoing elements of the HBMP outlined above, the revised HBMP program implemented in 1996 also required the Authority to conduct and/or contribute to a number of duration-limited studies designed to answer specific research questions. The following outlines the major goals of each of these special studies. Each of these special investigations will result in a stand-alone report to be submitted to the District. Where applicable, all pertinent data collected during these specific research studies will be incorporated into other study elements of the HBMP.

1.3.1 Morphometric Investigation

The goal of this effort, conducted by PBS&J, was to develop maps and tabular files indicating: typical cross-sections; open-water area; water volume; shoreline length; and areas/types of adjacent wetland habitat. All such determinations and metrics were determined corresponding to 0.5 kilometer interval segments along a developed centerline extending from the mouth of the Peace River near Punta Gorda to a point well upstream of the Peace River Facility. In addition, a summary table was developed indicating the locations of both current and previous fixed water quality and vegetation sampling locations in relation to the new centerline kilometer distance scale developed during the morphometric analysis. The results of the morphometric study were finalized and submitted in January 2000 to the District as a separate report. **Table 1.1** and **Figure 1.2** indicate the permanent river kilometer distances that will be used in all future HBMP documents, provide relations to both previously used USGS river miles and EQL station locations.

1.3.2 Benthic Macroinvertebrate and Mollusc Study

Mote Marine Laboratory conducted this special study element of the HBMP. A draft document summarizing the findings was completed for review in July 2001, and a finalized report was submitted in April 2002. The primary objectives of the two investigations conducted as part of this effort were to:

- Describe the distribution of major macroinvertebrate habitats and communities in the lower Peace River.

- Determine whether benthic organisms and/or their community structure can be used to assess natural variations in freshwater inflows and, measure potential influences caused by the diversions of the Peace River Facility.

The approach of these studies has been to characterize the tidal area of the river downstream of the Peace River Facility based on a series of criteria, including: 1) the magnitude of tidal influence, 2) dominant shoreline habitats, and 3) observed gradients in physical and/or chemical characteristics, or other features found to be significant. Important riverine characteristics of significance to the distribution of benthic invertebrate communities would include physical/chemical parameters such as the sediment granulometry of the riverbed, as well as spatial differences with depth, salinity and dissolved oxygen.

Macroinvertebrates – The design of this sampling effort incorporated dividing the lower Peace River into four “salinity segments” based on historic gradients from data gathered as part of the HBMP.

- < 0.5 ppt
- > 0.5 & < 8 ppt
- > 8 & < 16 ppt
- > 16 ppt

Core samples, the colonization of artificial substrates, and sweep nets were used to characterize the benthic invertebrate communities from two depths: 1) the intertidal zone; and 2) from Mean Low Low Water down to a depth of 3.7 meters; within each of the four identified salinity zones.

Mollusc Study - A second corollary investigation has been undertaken of the distribution of benthic, hard-shell mollusc communities, examining both live and dead shells to delineate ecological zones in the estuary and attempting to relate the observed patterns to recent seasonal patterns in flows and observed variations in near bottom salinity. This investigation has incorporated intensive sampling at 0.5 km intervals along the lower river.

1.3.3 Fish Nursery Study

The University of South Florida conducted this special short-term, two-year study, which was jointly funded by the Authority and the Water Management District. The study’s goal was to define seasonal and spatial patterns of fish nursery use within the Lower Peace River/Upper Charlotte Harbor Estuary and to determine the potential influences/relationships freshwater inflows have on such observed patterns. Stratified estimates of the relative distribution and abundance of fishes and selected invertebrate taxa were made from two randomly selected, five minute, three-step (bottom-midwater-surface) oblique tows collected during night, flood tide conditions using a weighted, flowmeter-equipped plankton net. Monthly samples were collected at seven zones within the lower Peace River. A separate comprehensive Summary Report of the findings of this investigation is expected during the later part of 2002.

1.3.4 Fixed Station Salinity Modeling

A key element of the recently finalized Year Three Comprehensive Summary Report was the development of statistical models of the interrelationships between freshwater inflows and salinity as a function of location in the lower river along the developed centerline between the U.S.41 Bridge (RK 6.8) and the Water Treatment Facility (RK 29.8). These models were then applied to develop predictions:

- Historical changes in salinity that have resulted from actual freshwater withdrawals.
- Potential salinity changes that might be expected under maximum freshwater withdrawals under the existing permitted withdrawal schedule.

In order to further test these results, the District contracted with the Authority to have Janicki Environmental, Inc. to develop updated regression models, to predict salinity at each of seven fixed sampling locations:

1. River Kilometer -2.4 (EQL #9)
2. River Kilometer 6.6 (EQL #10)
3. River Kilometer 10.5 (EQL #11)
4. River Kilometer 15.5 (EQL #12)
5. River Kilometer 20.1 (EQL #13)
6. River Kilometer 23.6 (EQL #14)
7. River Kilometer 25.9 (EQL #15)

Regression models were developed at each of these seven locations for salinity at:

1. Near the surface
2. At a depth of 1.0 meters
3. At a depth of 2.0 meters
4. Near the bottom

A draft document of the findings of this study was submitted for review in June 2001 and finalized in March 2002.

1.4 Summary of 2001 Results

The following text and tables compare data collected during 2001 with similar average values for key parameters previously compiled during various elements of the ongoing long-term monitoring programs. Such key elements, include:

1. Peace River freshwater inflows and facility withdrawals.
2. Physical measurements such as water temperature, color and extinction coefficients.

3. Water quality characteristics such as nitrate/nitrite, ortho-phosphorus, nitrogen to phosphorus ratios, and silicon.
4. Biological measurements of phytoplankton biomass - chlorophyll *a*.

In making comparisons of the 2001 data with averages of similar data collected over the preceding 18 year period (1983-2000), it should be noted that the very dry drought La Niña conditions that influenced southwest Florida between 1999 and mid-2001, and directly followed the very wet winter/spring El Niño of 1997/1998 (see [Figure 2.6](#)).

- **Flows** – Average mean daily Peace River flow at the Arcadia gage during 2001 was 1038.1 cfs, or more than seven times than the daily mean of the preceding year. Overall, gaged Arcadia freshwater inflows were approximately 125 percent of the average daily flow for the preceding long-term period 1976-2000 (see [Table 2.3](#)). The sum of average daily flows from the Peace River at Arcadia, Horse Creek, Joshua Creek, and Shell Creek during 2001 was roughly 132 percent of the average daily flows for the period 1976-2000.
- **Withdrawals** – Facility withdrawals only reached levels of 10 percent of the gaged Peace River at Arcadia flows (those over 130 cfs) on 3.6 percent of the days of the year. Overall, 2001 withdrawals comprised 0.76 percent of Arcadia gaged flows, and 0.41 percent of the combined lower Peace River gaged flow (Peace Arcadia, Horse Creek, Joshua Creek and Shell Creek).

(**Note:** see [Tables 3.9](#) and [4.6](#) for statistical comparisons between 2001 and long-term averages for the following and other selected physical, chemical and biological water quality characteristics measured in conjunction with the “moving” and “fixed” HBMP study elements).

- **Temperature** – Following an unusually cold period in December 2000, average water temperatures throughout most of 2001 were typical of the long-term averages. However, water temperatures at the end of the year (November and December 2001) were unusually warm.
- **Water Color** – The average color levels were affected by unusually low flows during the drought conditions that characterized the watershed during the first half of the year, and the short-term, very high freshwater inflows during the summer. This resulted in overall median water color levels being lower than the historical average in the freshwater reaches of the river, while 2001 medians at the same time were higher than average at the two highest isohalines.
- **Extinction Coefficient** – Measured light attenuation at each of the four isohalines reflect both ambient color and phytoplankton production. These measurements reflect the influences of long-term low freshwater inflows during first part of 2001. As a result, the overall decreases in light extinction during 2001 were progressively greatest moving upstream.

- **Nitrite/Nitrate Nitrogen**- During 2001, the average concentrations of this major inorganic form of nitrogen were very similar to the long-term averages at each of the four measured salinities. A comparison among the isohalines indicates that a strong gradient exists in inorganic nitrogen in the upper estuary. Concentrations typically decrease rapidly with increasing salinity. Seasonally, ambient inorganic nitrogen concentrations decline to their lowest levels during the late spring dry season, as phytoplankton populations respond to increasing water temperatures and light.
- **Ortho-Phosphorus** - Average inorganic phosphorus concentrations during 2001 were very similar to the long-term averages (1983-2000) at each of the four isohalines. Since ambient inorganic phosphorous concentrations reflect the “very” high natural levels in the watershed, unlike inorganic nitrogen concentrations differences among the four isohalines in phosphorous levels reflect conservative dilution and not biological uptake.
- **Nitrogen to Phosphorus Atomic ratios** – Calculated atomic inorganic nitrogen to phosphorus ratios for ambient measured concentrations in 2001, as indicated by the long-term averages, show that nitrogen to always be the limiting macronutrient at each of the four isohalines.
- **Silica** - Low concentrations during the first half of 2001 reflected the much lower than average freshwater inputs. However, as a result of the very high summer flows, reactive silica concentrations were overall above average at the two downstream isohalines.
- **Chlorophyll a** – The observed low concentrations measured at the 0 o/oo isohaline reflects the combined influences of lower than average nutrient inputs resulting from the historically low flows during the first half of 2001, and the very high color associated with the high summer wet-season flows. At the other three isohalines, chlorophyll a levels were generally typical of the long-term averages. However, the pattern during 2001 of extremely low flows (low nutrients), following by very rapid increases in flows (high color, low light) resulted in an overall lack of phytoplankton “blooms”, which historically have been typical in the early spring and late fall at the two intermediate isohalines

1.5 Conclusions

This document represents the sixth Annual Data Report submitted under the expanded Hydrobiological Monitoring Program (HBMP) initiated in 1996 in compliance with Water Use Permit (WUP) 2010420.03. The graphical and summary analyzes presented in this document do not indicate any substantial changes, or atypical events (other than the extend drought that continued through much of the 2001, and the very brief, extremely high flows that resulted from tropical rainfall during September 2001), in either the physical or biological data collected during 2001. These “limited” analyzes also do not suggest there to have been any long-term changes resulting from either current or historic water withdrawals by the Peace River Regional Water Supply Facility.

1.6 Permanent Data

All historic water quality and in situ data collected during the fixed and moving station elements of the HBMP used in the preparation of this document are provided on the 2001 Data Report CD in the directory labeled 2001 Data Sets, as either ASCII files and/or SAS format. Table 1.3 provides a summary and links to descriptions of the variables within each of the SAS data sets.

Table 1.3 Description of Data Sets		
Data Set Name	Time Period	Brief Description
Flwd01.sd2	1931-2001	Historic daily flow data for: Peace at Arcadia; Horse Creek near Arcadia; Joshua Creek near Nocatee; and Shell Creek near Punta Gorda. Historic daily Peace River Facility withdrawals. All values in cfs.
Cmov8301.sd2	1983-2001	Water quality, and phytoplankton biomass and uptake measurements from monthly surface samples collected at each of the four moving isohalines. Relative locations reflect distances from the river mouth in kilometers.
Hymov01.sd2	1983-2001	Monthly hydrolab <i>in situ</i> water quality measurements taken at 0.5 meter intervals at each of the four moving isohalines. Relative locations reflect distances from the river mouth in kilometers.
Hyfix01.sd2	1996-2001	Monthly <i>in situ</i> hydrolab water column profile data taken at 0.5 meter intervals from fixed sample locations from near the river's mouth to just upstream of the Treatment Facility.
cfix9601.sd2	1996-2001	Monthly surface and bottom chemical water quality samples taken at five intervals from fixed sample locations from near the river's mouth to just upstream of the Treatment Facility.
efix9601.sd2	1996-2001	Water column extinction coefficients collected at the fixed sampling locations.
Boca01.sd2	1996-2001	Water level at 15-minute intervals from the continuous recording gage near Boca Grande.
ph01.sd2	1996-2001	Water Level, and surface and bottom conductivity and temperature at 15-minute intervals from the continuous recording gage on the Peace River near Harbor Heights (River Kilometer 15.5).
pr01.sd2	1997-2001	Water Level, and surface and bottom conductivity and temperature at 15-minute intervals from the continuous recording gage on the Peace River near Peace River Heights (River Kilometer 26.7).

**** Note:** Click on the data set name to review a comprehensive listing of the data set contents.



[Back to Start](#)



[Next Chapter](#)

Table 1.1 HBMP Fixed Sampling Locations

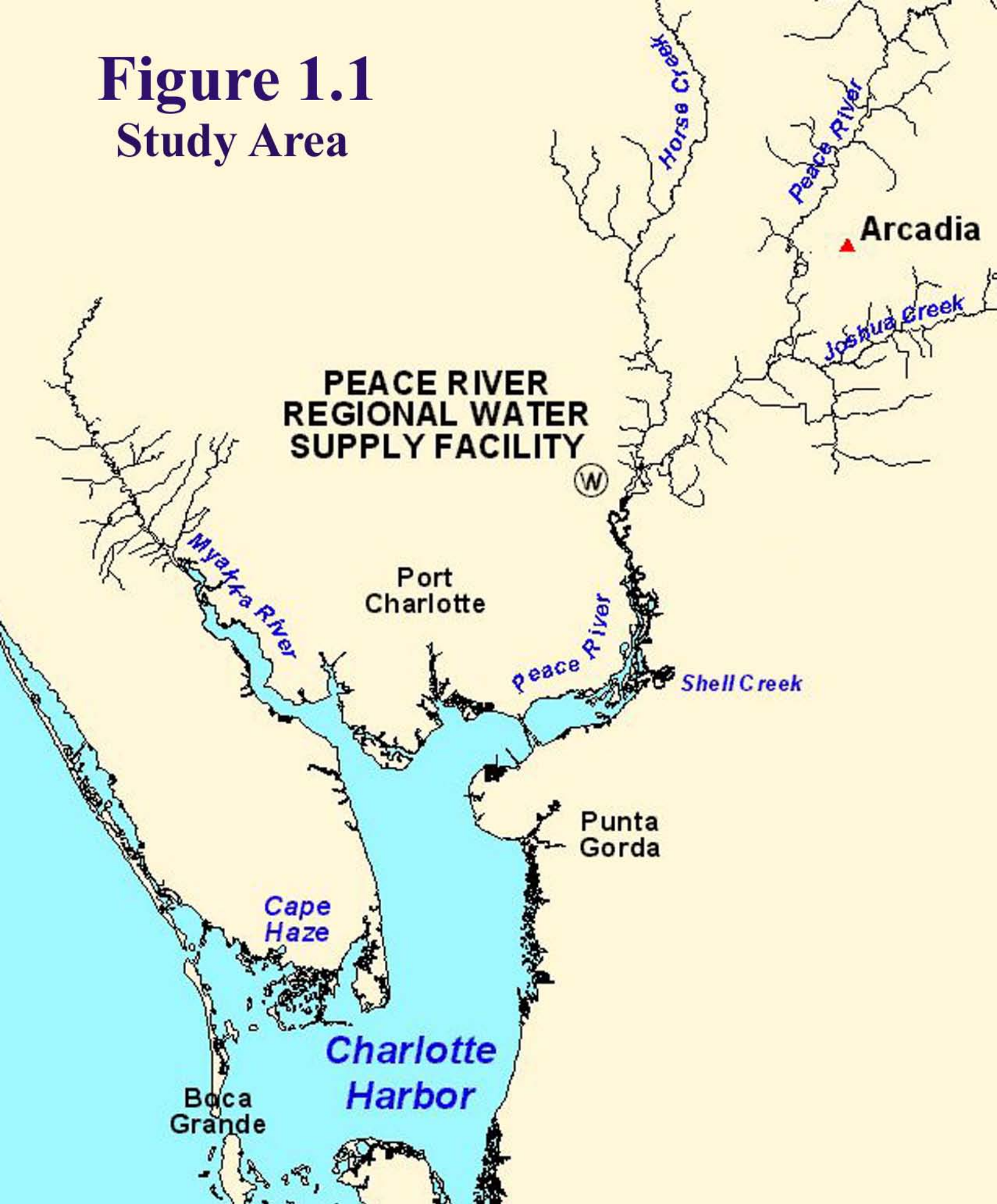
USGS River Mile	USGS Location Number	Previous EQL Station Number	Additional Sampling	New River Kilometer designation based on Morphometric Study
Current <i>In Situ</i> Water Column Profile Sampling				
CH6	265355082075500	9	Water Quality	-2.4
RM3.95	265640082033500	10	Water Quality	6.6
RM4.88	265724082024400	21		8.4
RM6.25	265727082012800	11		10.5
RM8.61	265711081595500	Shell Creek 9		12.7
RM8.6B	265819082003200	22		12.8
RM10.2	2297460	12	Water Quality/Tide Gage/Conductivity	15.5
RM11.2	270022081591000	23		17.5
RM 12.55	270124081592500	13		20.1
RM13.95	270235081592400	24		21.9
RM14.82	270318081593100	14	Water Quality	23.6
RM15.45	270337081595800	25		24.7
RM16.29	270418082001600	15		25.9
N/A	2297350	N/A	Tide Gage/Conductivity	26.7
RM18.25	270451081595100	17		29.5
RM18.95	2297330	18	Water Quality	30.4
RM19.5	270537081585800	19		32.3
Vegetation Transect Locations				
N/A	N/A	I		15.6
N/A	N/A	II		22.3
N/A	N/A	III		20.4
Previous EQL Water Column and Chemistry Sampling Sites				
N/A	N/A	16		27.1
N/A	N/A	20		34.1

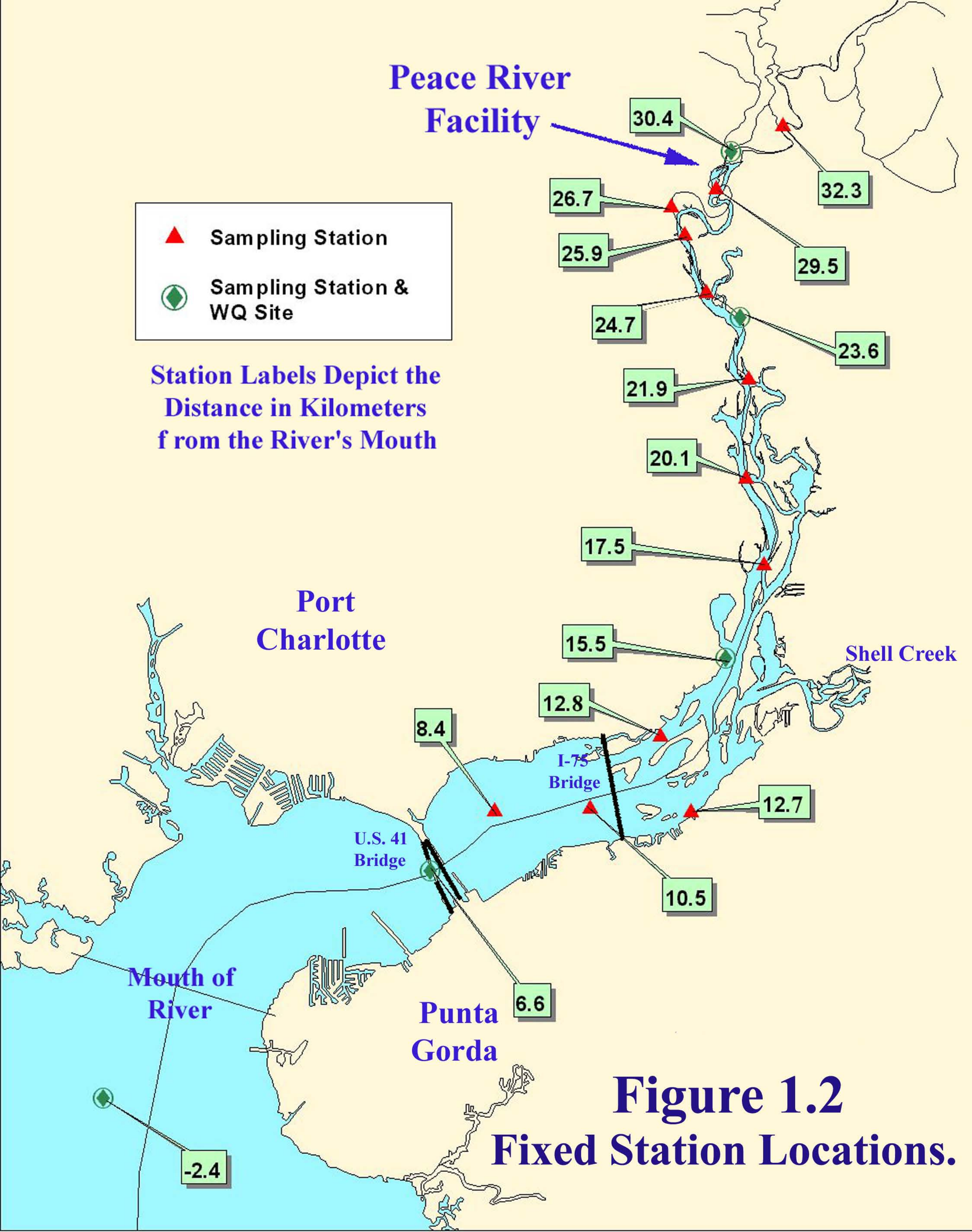
Table 1.2 HBMP Chemical Water Quality Measurements

Salinity	Nitrate + Nitrite Nitrogen	Inorganic Carbon
Chloride	Ammonia/Ammonium Nitrogen	Total Organic Carbon
Color	Total Kjeldahl Nitrogen	Dissolved Organic Carbon
Turbidity	Total Nitrogen	Chlorophyll <i>a</i> both total and by size fraction <i>1) > 20 u</i> <i>2) 5 to 20 u</i> <i>3) 5 > u</i>
Alkalinity	Ortho-Phosphorus	
Suspended Solids	Total Phosphorus	
Volatile Solids	Silica	

Figure 1.1

Study Area





**Figure 1.2
Fixed Station Locations.**

**PEACE RIVER
REGIONAL WATER
SUPPLY FACILITY**

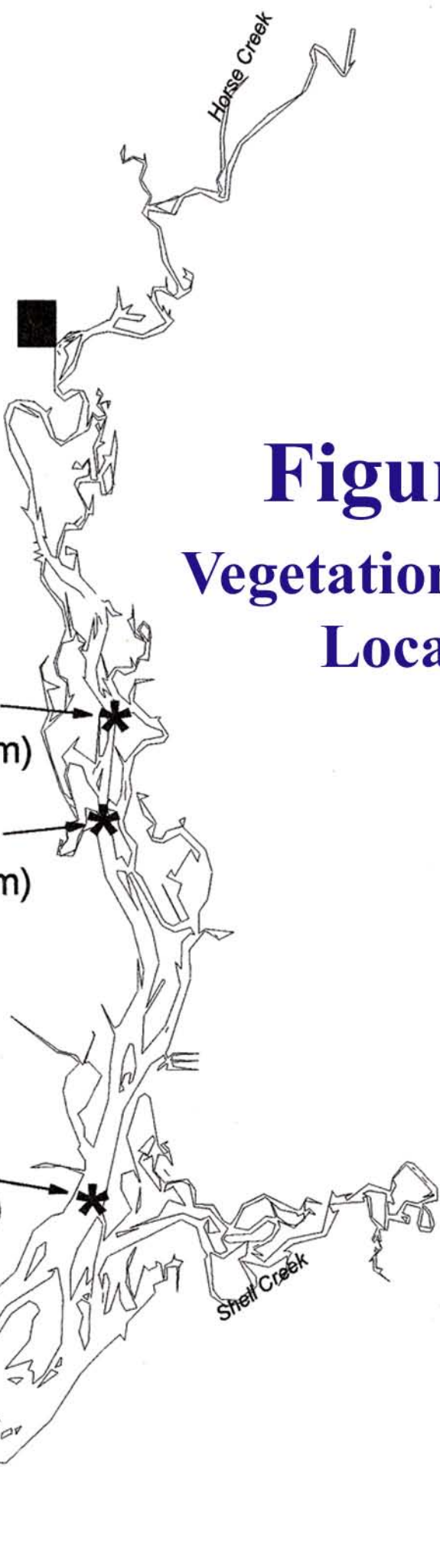


Figure 1.3
Vegetation Transect
Locations

Site II
(22.3 km)

Site III
(20.4 km)

Site I
(15.6 km)

Peace River

Shell Creek

Horse Creek

[Back to Start](#)[Next Chapter](#)

Chapter II

Peace River Gaged Flows and Regional Water Supply Facility Withdrawals

Daily Peace River discharges (in cubic feet per second) at the USGS gauging station at Arcadia, Florida during the reporting period, January through December 2001, are depicted in Figure 2.1a. As indicated, freshwater inflows during the first five months of 2001 reflected a continuation of the preceding two years of drought that began in 1999. High flows were observed during the summer wet-season in both July and August. However, these periods of increased flow were uncharacteristically followed by very rapid declines, indicating the effects on groundwater of the preceding period of extended drought. However, in early September a significant series of rainfall events resulted in the highest recorded flows at the Arcadia gage in over forty-years.

The seasonal pattern of the 2001 flows is further graphically presented in relation to the historic long-term averages (1970-2000) in Figure 2.1b. Statistical analyses were used to determine long-term average daily “exceedances” of the 10th, 25th, 50th (median), 75th and 90th percentiles for Peace River flow at the Arcadia gage. Thus, the line for Q10 represents a level of freshwater inflow that, on a long-term average, is exceeded 90 percent of the time on that particular day. This graphic clearly shows the magnitude and duration of the extended drought that continued during the first part of the calendar year throughout most of the Peace River basin.

Daily Peace River flows between 1976, the beginning of the HBMP, and 2001 are shown in Figure 2.2. This figure clearly shows the short-term magnitude of the rainfall event that occurred during September 2001. The same long-term period of river flow is further presented as mean monthly values (Figure 2.3) and as the 3-month moving averages (Figure 2.4). Plots similar to those above for total gauged flow entering Charlotte Harbor from the Peace River (Peace River at Arcadia + Horse Creek + Joshua Creek + Shell Creek) are shown in Figures 2.5 through 2.8. Combined, these graphics clearly indicate the seasonal magnitude of differences in freshwater inflows that occurred during 2001, as flows ranged from near historic lows during the spring dry-season to near record highs in September.

Table 2.1 Comparisons of Freshwater Inflows during 2001 and the Period 1976-2000.	
Figure	Description
Figure 2.1a	Daily Peace River Flow at Arcadia (2001)
Figure 2.1b	Daily Peace River Flow at Arcadia in Relation to Long-Term Statistical Averages
Figure 2.2	Daily Peace River Flow at Arcadia (1976-2001)
Figure 2.3	Monthly Mean Peace River Flow at Arcadia (1976-2001)
Figure 2.4	3-Month Moving Average Peace River Flow at Arcadia (1976-2001).
Figure 2.5	Daily Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (2001)
Figure 2.6	Daily Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1976-2001)
Figure 2.7	Monthly Mean Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1976-2001)
Figure 2.8	3-Month Moving Average Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1976-2001)

Daily withdrawals from the Peace River (in cubic feet per second) during 2001 by the Treatment Facility are presented in Figure 2.9. Daily withdrawals since plant startup are shown from 1980-2001 in Figure 2.10. Plots of the monthly means and 3-month moving averages of withdrawals over this period are depicted in Figures 2.11 and 2.12. Various relationships between 2001 Arcadia gaged Peace River flows and Water Supply Facility withdrawals are further depicted in Figures 2.13 through 2.16.

Table 2.2 Comparisons of Facility Withdrawals and Freshwater Inflows during 2001 and the Period 1976-2001.	
Figure	Description
Figure 2.9	Daily Water Treatment Facility Withdrawals (2001)
Figure 2.10	Daily Water Treatment Facility Withdrawals (1980-2001)
Figure 2.11	Monthly Mean Water Treatment Facility Withdrawals (1980-2001)
Figure 2.12	3-Month Moving Average Water Treatment Facility Withdrawals (1980-2001)
Figure 2.13	Peace River Flows at Arcadia and Water Treatment Facility Withdrawals (2001)
Figure 2.14	Peace at Arcadia + Horse + Joshua + Shell Flows and Water Treatment Facility Withdrawals (2001)
Figure 2.15	Peace River Flows at Arcadia vs. Water Treatment Facility Withdrawals (2001)
Figure 2.16	Peace River Flows at Arcadia vs. % Water Treatment Facility Withdrawals (2001)

Comparison of the data displayed in Figures 2.1 and 2.2 shows that Peace River average daily flow at Arcadia for 2001 was approximately 125% of the average daily flow from 1976-2000. The data displayed in Figures 2.5 and 2.6 for the sum of average daily flows from the Peace River at Arcadia, Horse Creek, Joshua Creek, and Shell Creek indicate that flows for 2001 were roughly 132% of the average daily flows for the long-term preceding time period 1976-2000.

Withdrawals from the river by the Treatment Facility during 2001 only reached 10% of the preceding daily gaged Peace River at Arcadia flow 3.6% of the days of the year. However, as indicated in Figure 2.16, there were a number of times during 2001 when withdrawals exceeded this amount. The primary reason for these discrepancies stems from the way that stage/flow data are gathered. The Authority uses “provisional” preceding day flow data from the water level recorder at the USGS gaging station on the Peace River at Arcadia. These data are taken directly from the USGS Tampa Office’s Web Site. However, after the fact, the USGS checks and evaluates the data from the stage recorder and river cross section a number of times each year. Thus, the daily values used by the Authority are only “provisional” and are often changed by the USGS weeks or even months after-the-fact. It is not uncommon for subsequent determinations of percent withdrawals, based on revised USGS calculations of daily flows, to sometimes indicate that daily withdrawals, based on provisional flow information, exceeded 10%.

Annual mean Peace River flows (gaged data only) at Arcadia and the US41 Bridge are summarized since 1976, the start of the HBMP, in **Table 2.3**. Also included in this table are mean annual Water Treatment Facility withdrawals (since 1980), and the annual percentages these withdrawals have comprised of measured gaged flows. Average daily withdrawal for 2001 was approximately 0.41% of the combined average daily flows of the Peace River, Horse Creek, Joshua Creek, and Shell Creek. During the preceding period 1980-2000, average daily withdrawals were approximately 0.61% of the combined average daily flows of the Peace River, Horse Creek, Joshua Creek, and Shell Creek.



[Back to Start](#)



[Next Chapter](#)

Table 2.3 Long-Term Yearly Mean Measurements of Peace River Flows and Facility Withdrawals

Year	Means (in cubic ft/sec)			Withdrawal as Percent of Gaged Flow at:	
	Flow at Peace Facility Arcadia	Peace Arcadia + Horse Creek + Joshua Creek + Shell Creek	Withdrawal	Arcadia	US 41 Bridge
1976	703.3	959.6	No Withdrawals Until 1980		
1977	478.7	731.9			
1978	997.2	1525.8			
1979	1171.4	2080.5			
1980	495.2	726.3	3.93	0.66	0.45
1981	288.4	629.6	5.10	1.77	0.81
1982	1610.5	2746.9	5.91	0.37	0.21
1983	1371.3	2319.9	5.11	0.37	0.22
1984	567.0	1102.7	4.07	0.72	0.37
1985	368.9	680.7	7.24	1.96	1.06
1986	548.9	1013.6	7.50	1.37	0.74
1987	802.7	1357.8	7.59	0.95	0.56
1988	1054.0	1738.4	9.48	0.90	0.55
1989	373.6	699.0	9.60	2.57	1.37
1990	402.4	741.4	8.72	2.17	1.18
1991	771.1	1567.6	10.38	1.35	0.66
1992	784.6	1543.6	9.41	1.20	0.61
1993	698.5	1249.3	12.02	1.72	0.96
1994	1365.9	2359.0	11.65	0.85	0.52
1995	1708.1	3071.6	12.23	0.72	0.40
1996	598.2	928.8	12.46	2.08	1.34
1997	1059.9	1777.6	12.12	1.14	0.68
1998	1915.9	2921.3	15.43	0.81	0.53
1999	565.2	1142.5	12.8	2.26	1.15
2000	139.4	342.4	5.7	4.09	1.66
2001	1038.1	1914.7	7.9	0.76	0.41

Peace River Flow at Arcadia (2001)

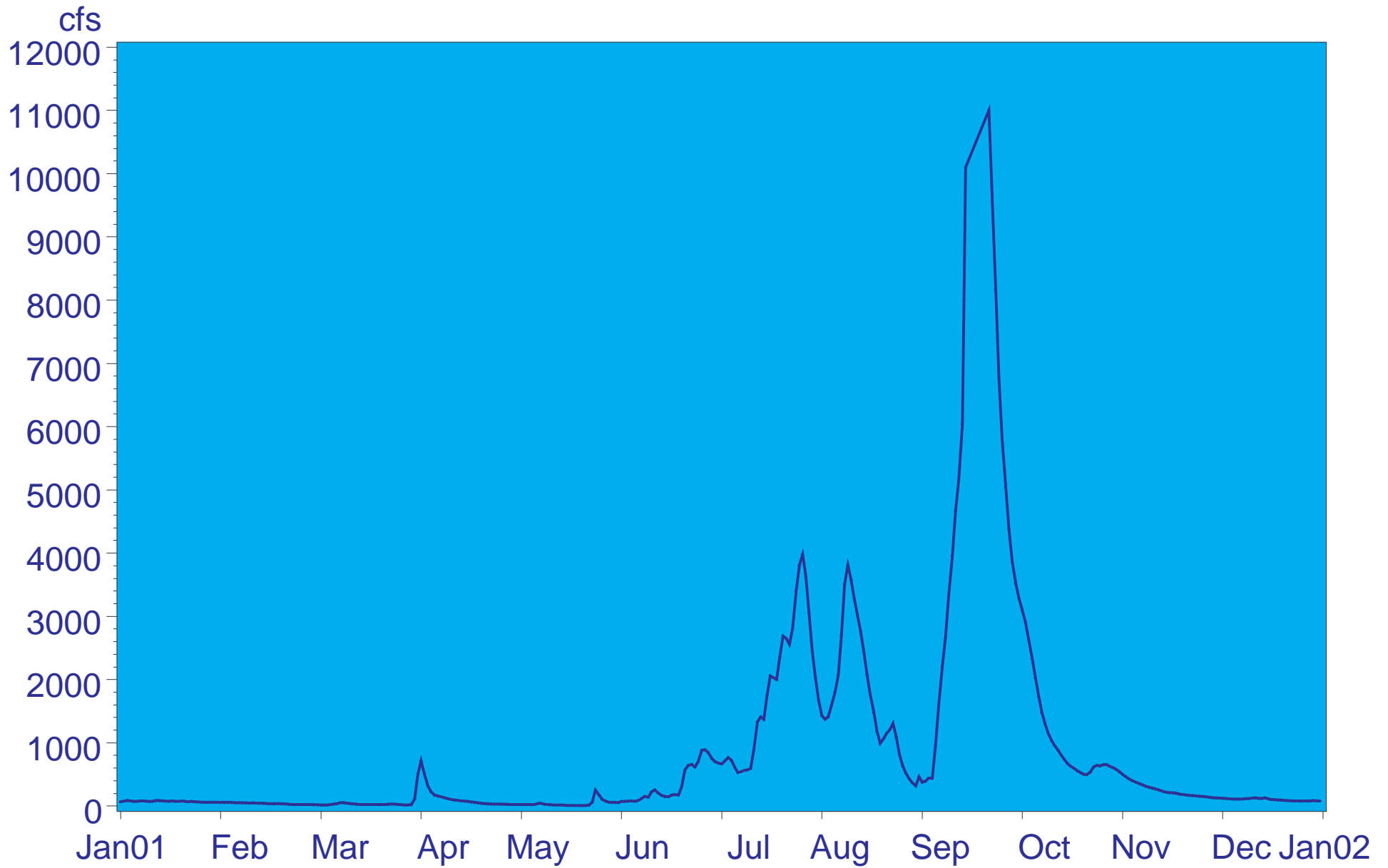


Figure 2.1a Daily Peace River Flow at Arcadia (2001).

Peace River Flow at Arcadia (2001)

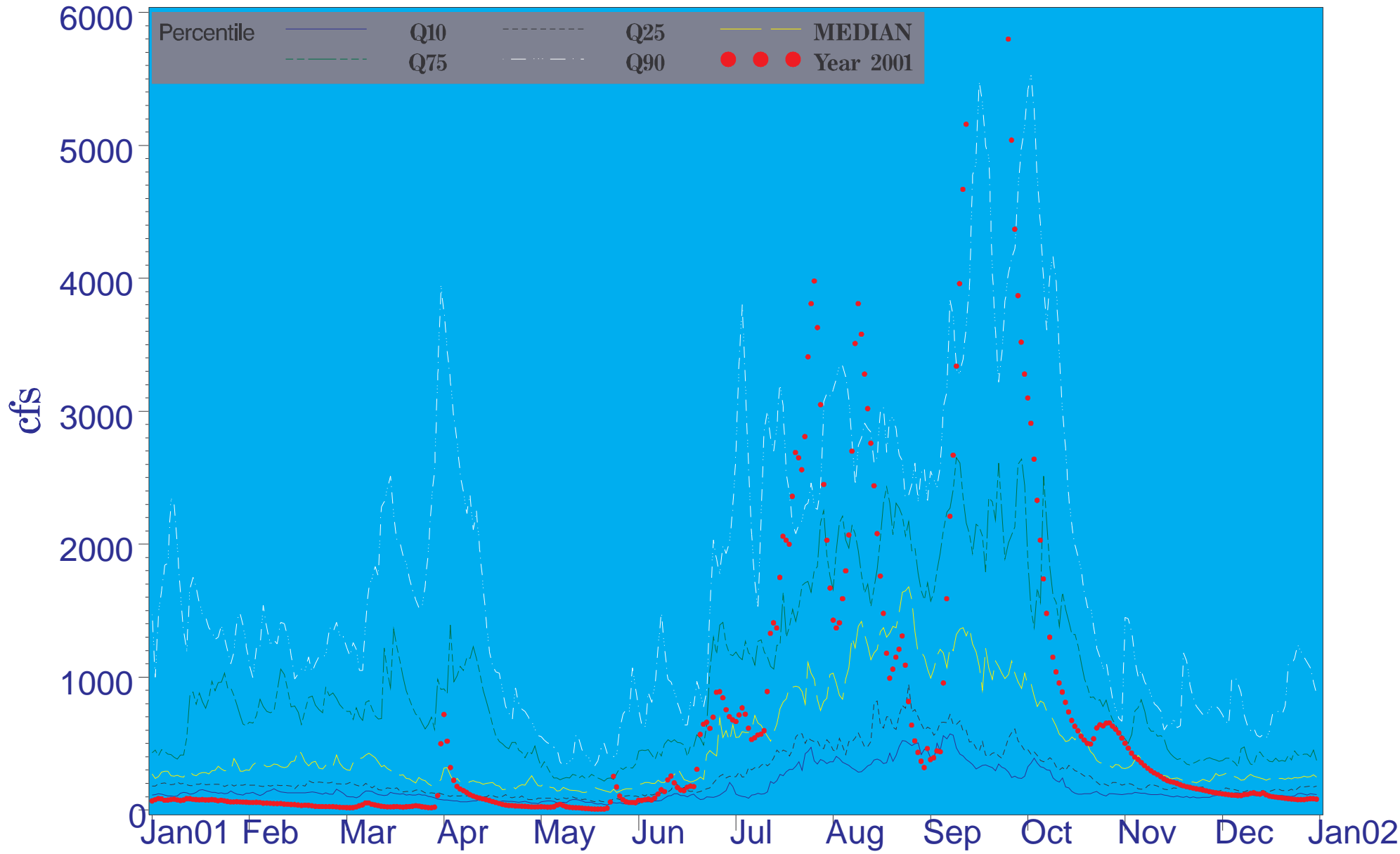


Figure 2.1B Daily Peace River Flow at Arcadia in Relation to Long-Term Statistical Averages.

Peace River Flow at Arcadia (1976-2001)

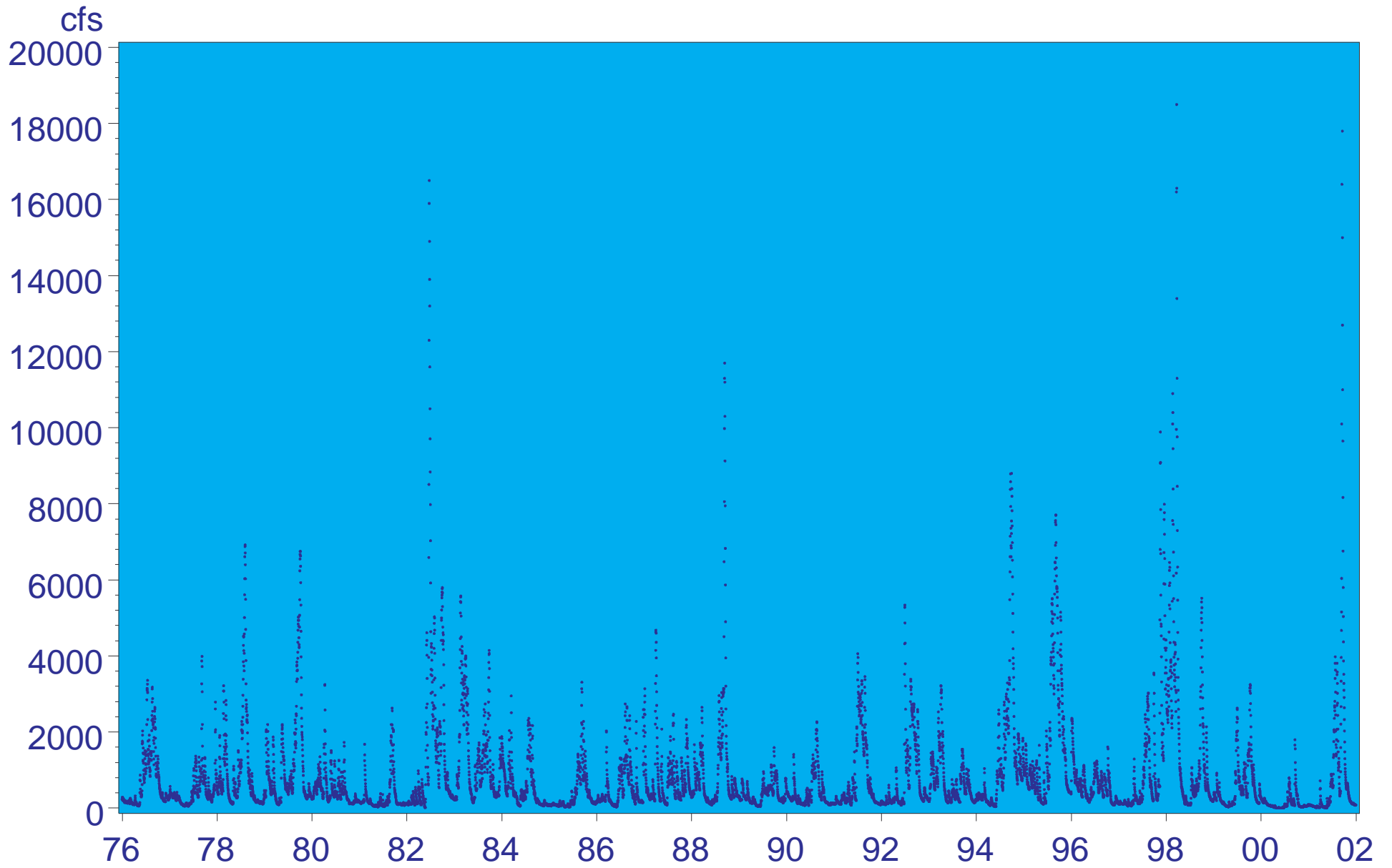


Figure 2.2 Daily Peace River Flow at Arcadia (1976-2001).

Peace River Flow at Arcadia (1976-2001)

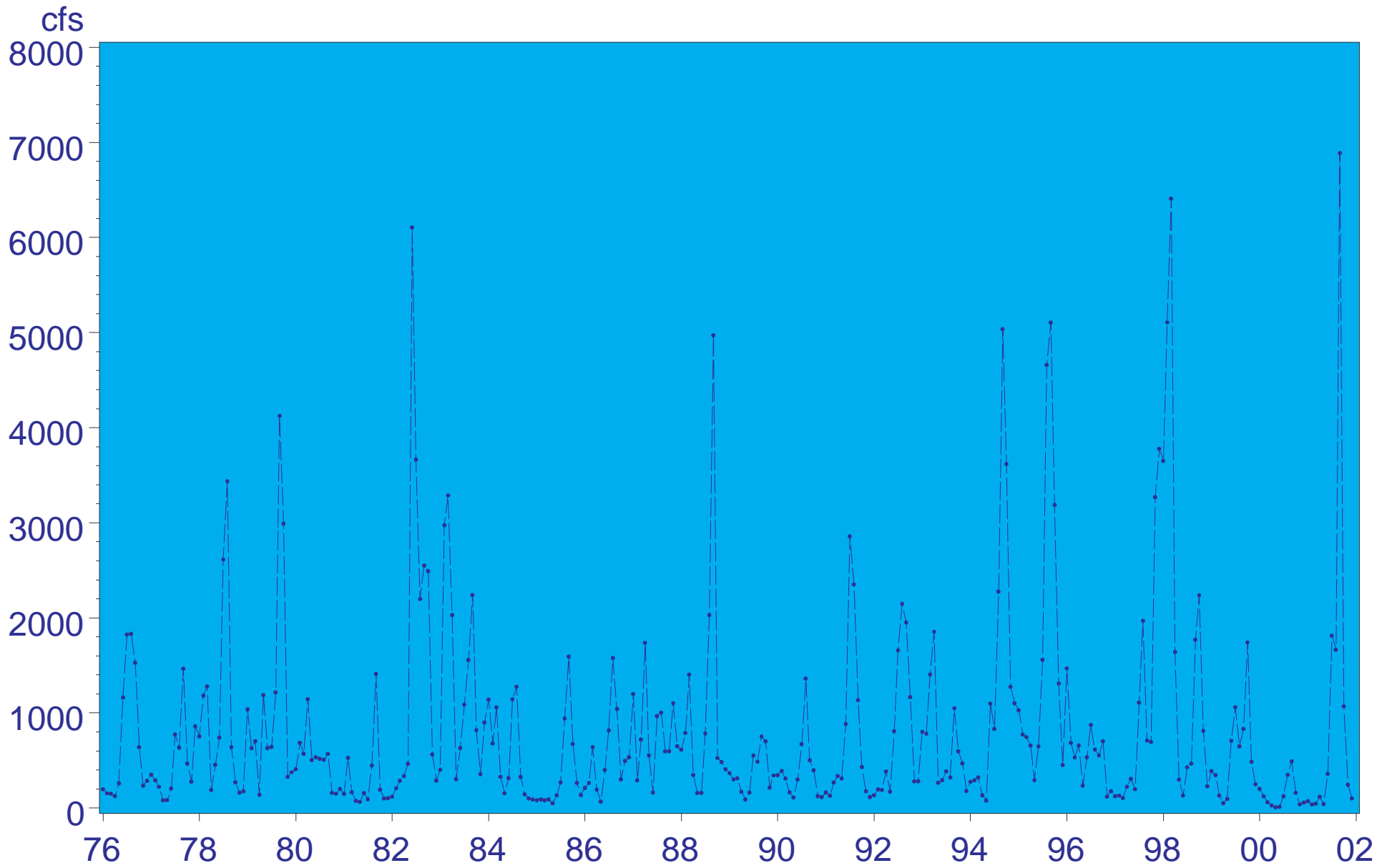


Figure 2.3 Monthly Mean Peace River Flow at Arcadia (1976-2001).

Peace River Flow at Arcadia (1976-2001)

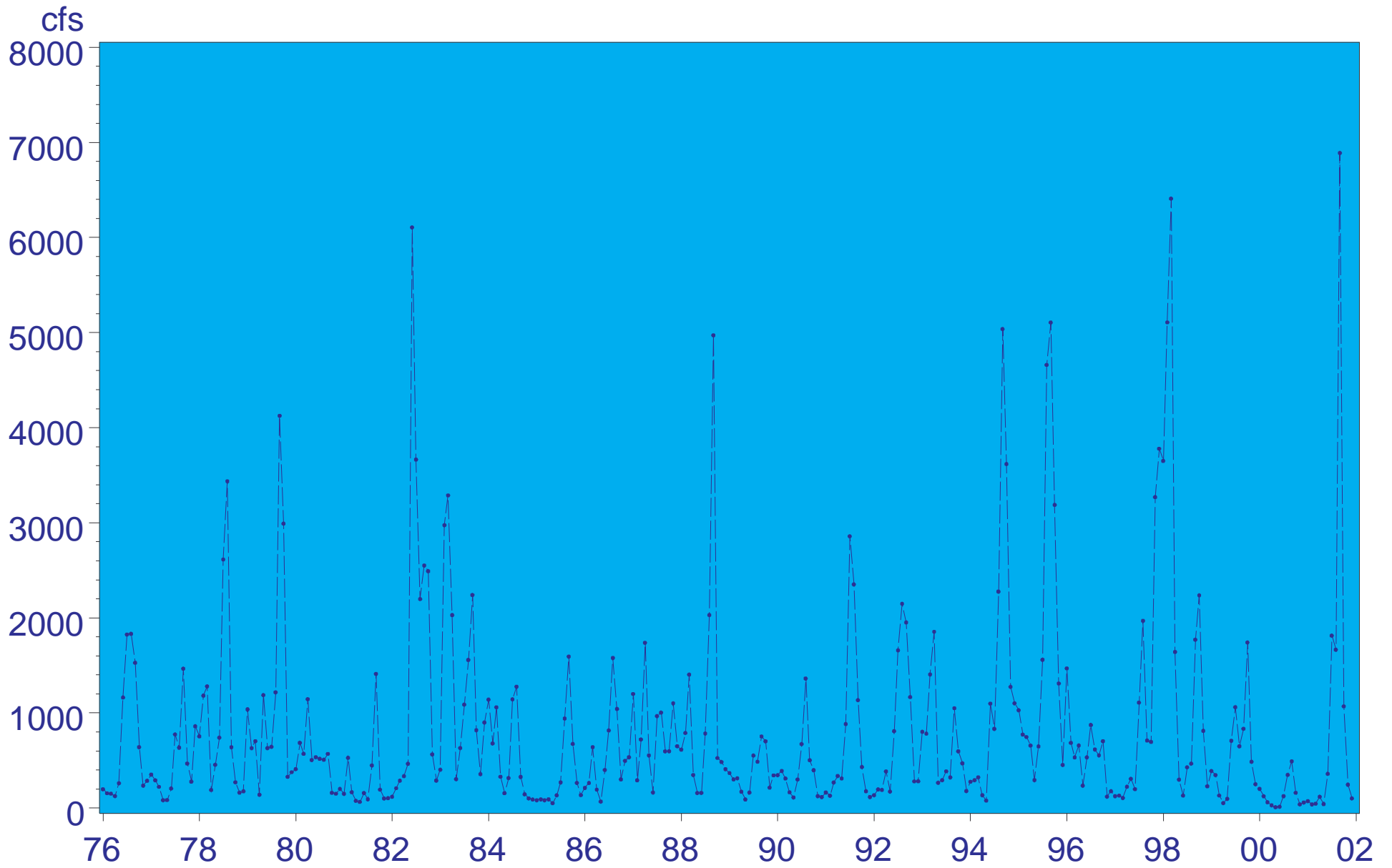


Figure 2.3 Monthly Mean Peace River Flow at Arcadia (1976-2001).

Peace River Flow at Arcadia (1976-2001)

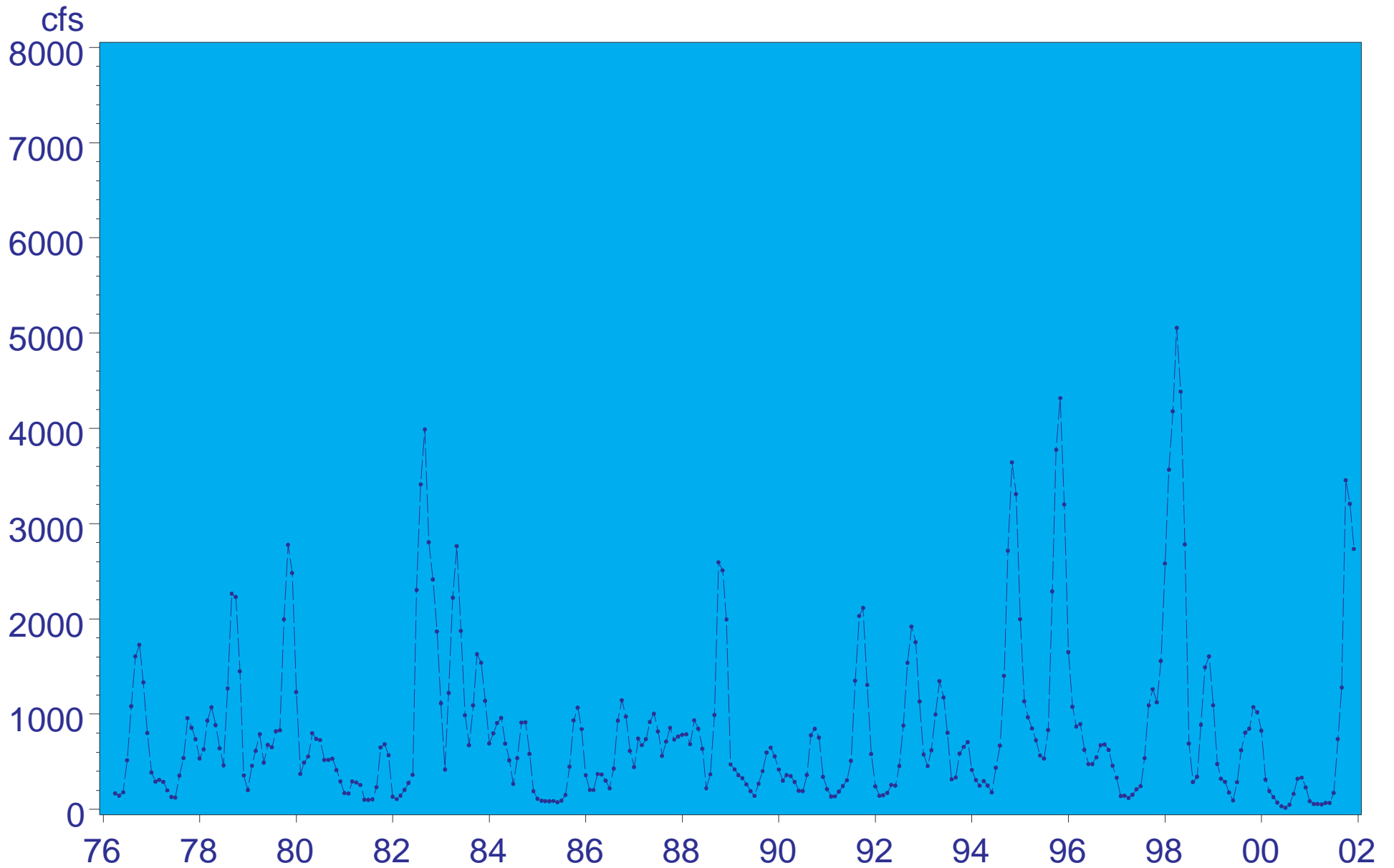


Figure 2.4 3-Month Moving Average Peace River Flow at Arcadia (1976-2001).

Peace at Arcadia + Horse + Joshua + Shell Flow (2001)

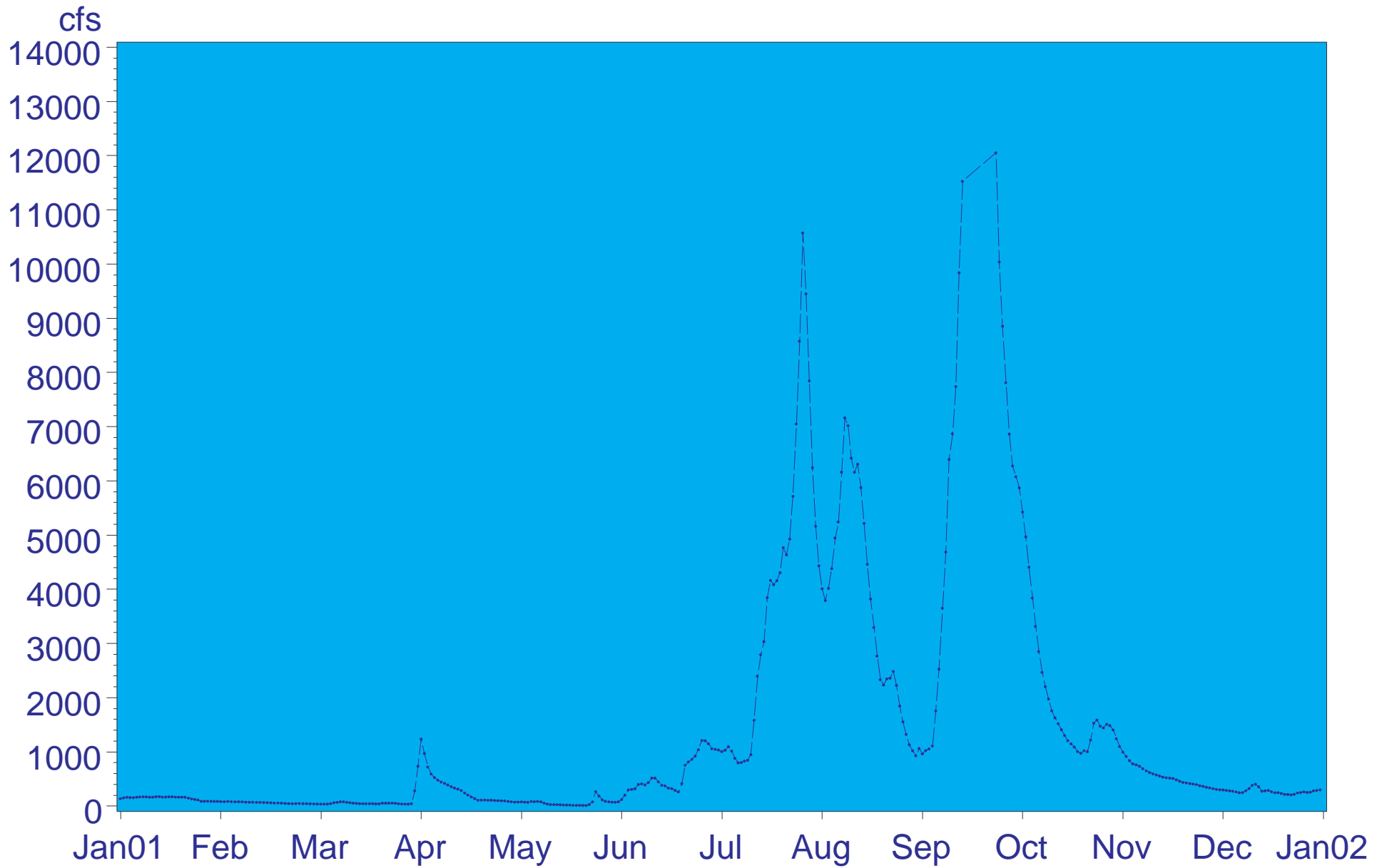


Figure 2.5 Daily Peace at Arcadia + Horse + Joshua + Shell (2001).

Peace at Arcadia + Horse + Joshua + Shell Flow (1976-2001)

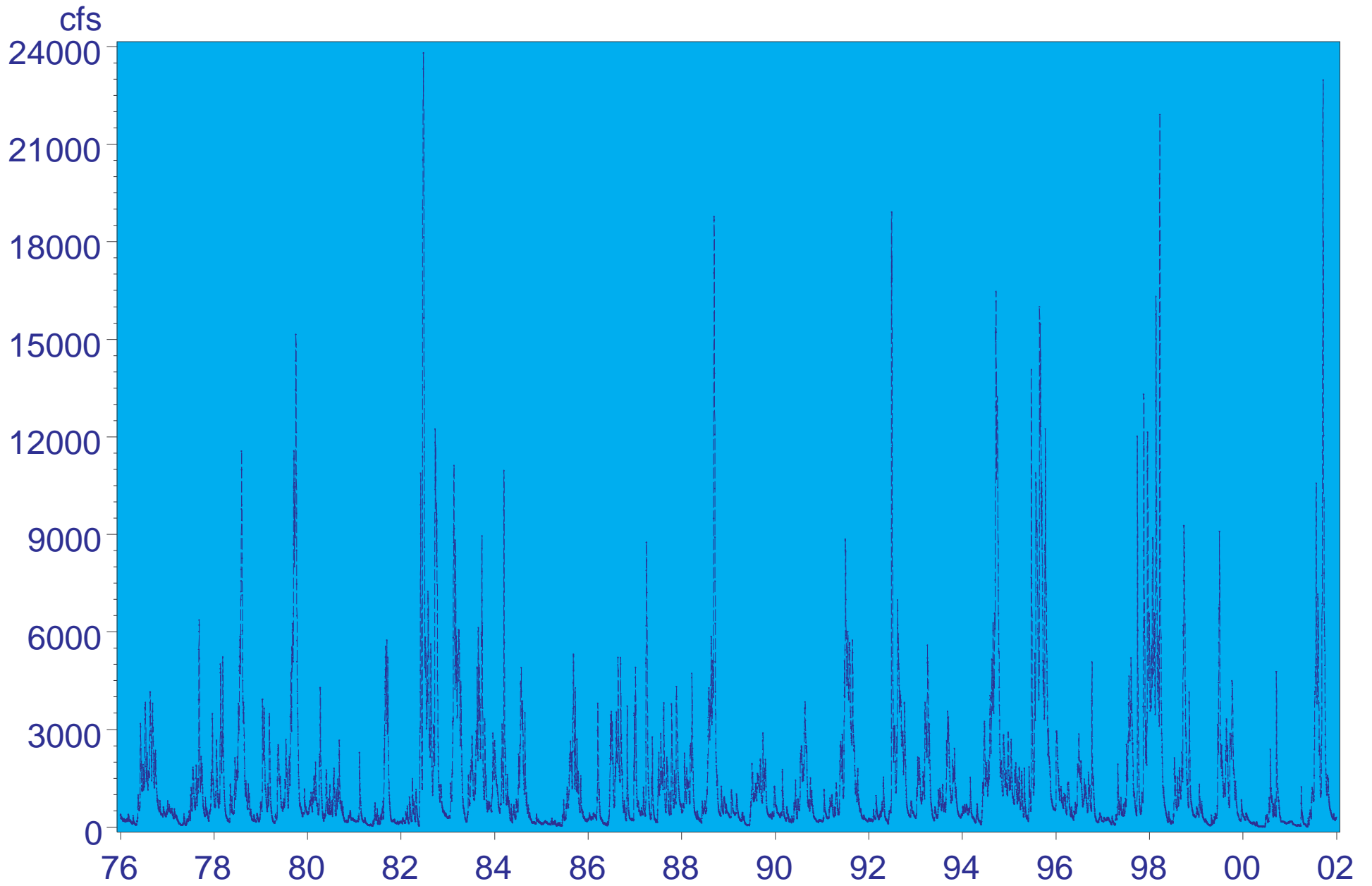


Figure 2.6 Daily Peace at Arcadia + Horse + Joshua + Shell (1976-2001).

Peace at Arcadia + Horse + Joshua + Shell Flow
Monthly Mean 1976-2001

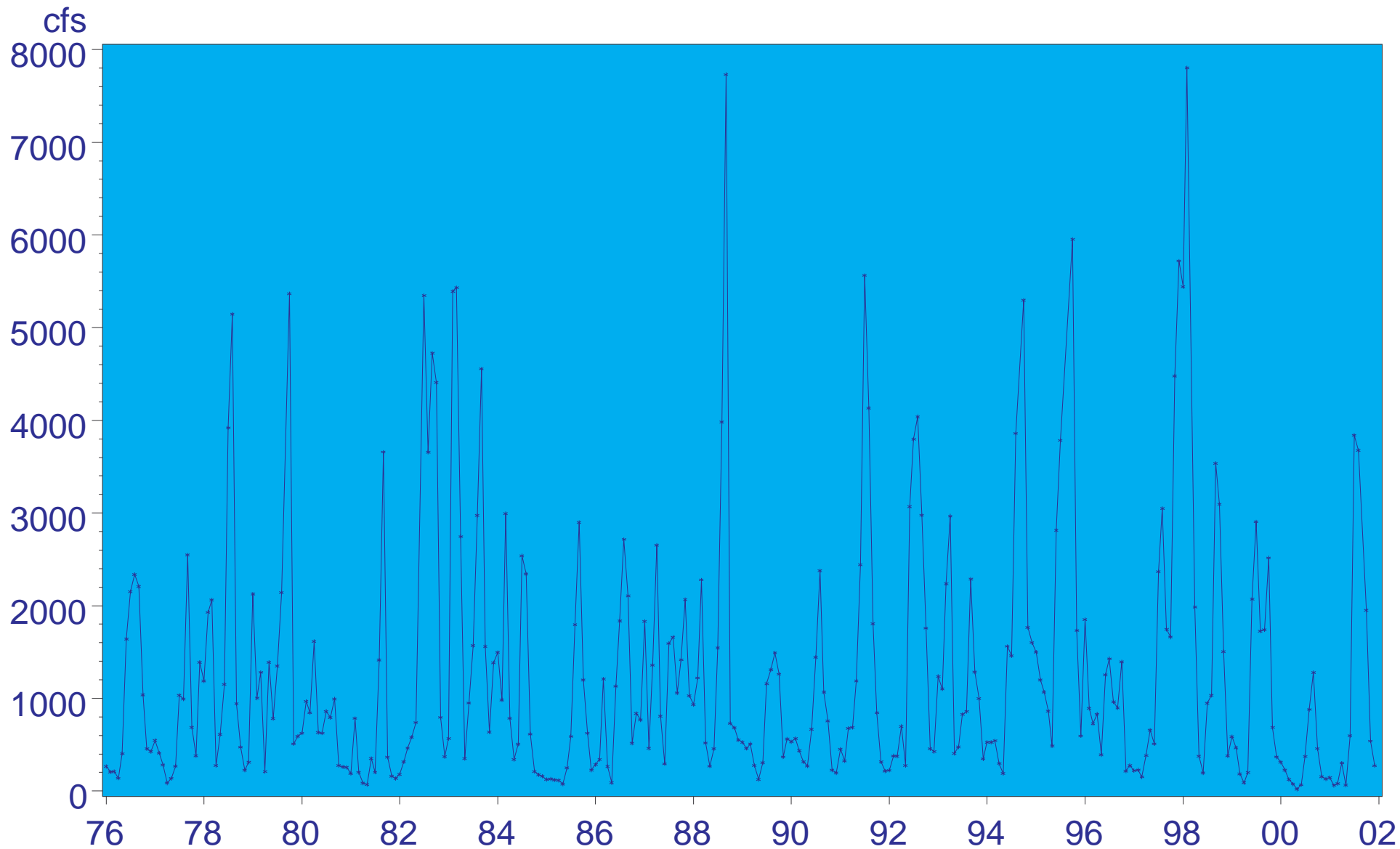


Figure 2.7 Monthly Mean Peace at Arcadia + Horse + Joshua + Shell (1976-2001).

Peace at Arcadia + Horse + Joshua + Shell Flow 3-Month Moving Average 1976-2001

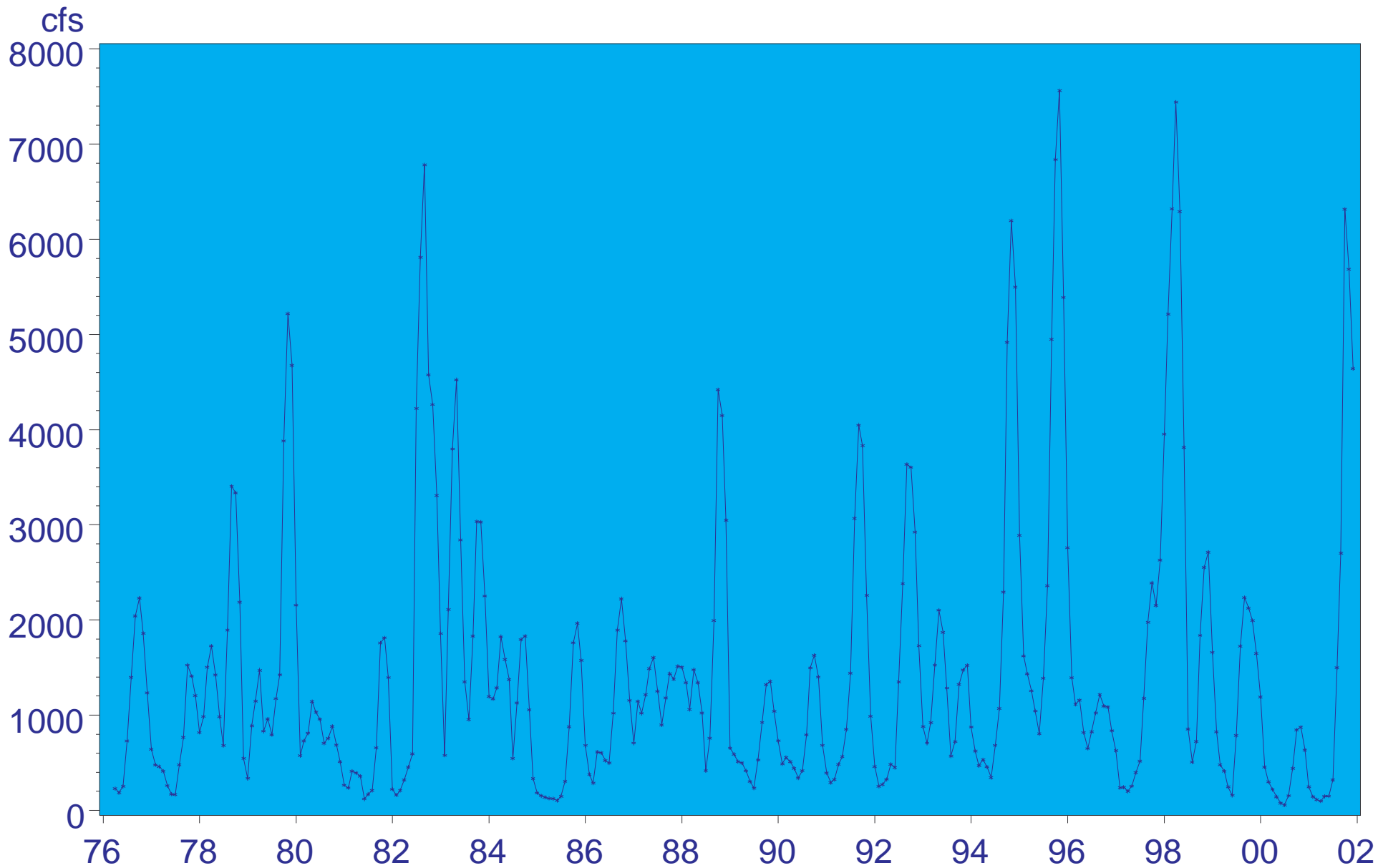


Figure 2.8 3-Month Moving Average Peace at Arcadia + Horse + Joshua + Shell (1976-2001).

Peace River Withdrawal (2001)

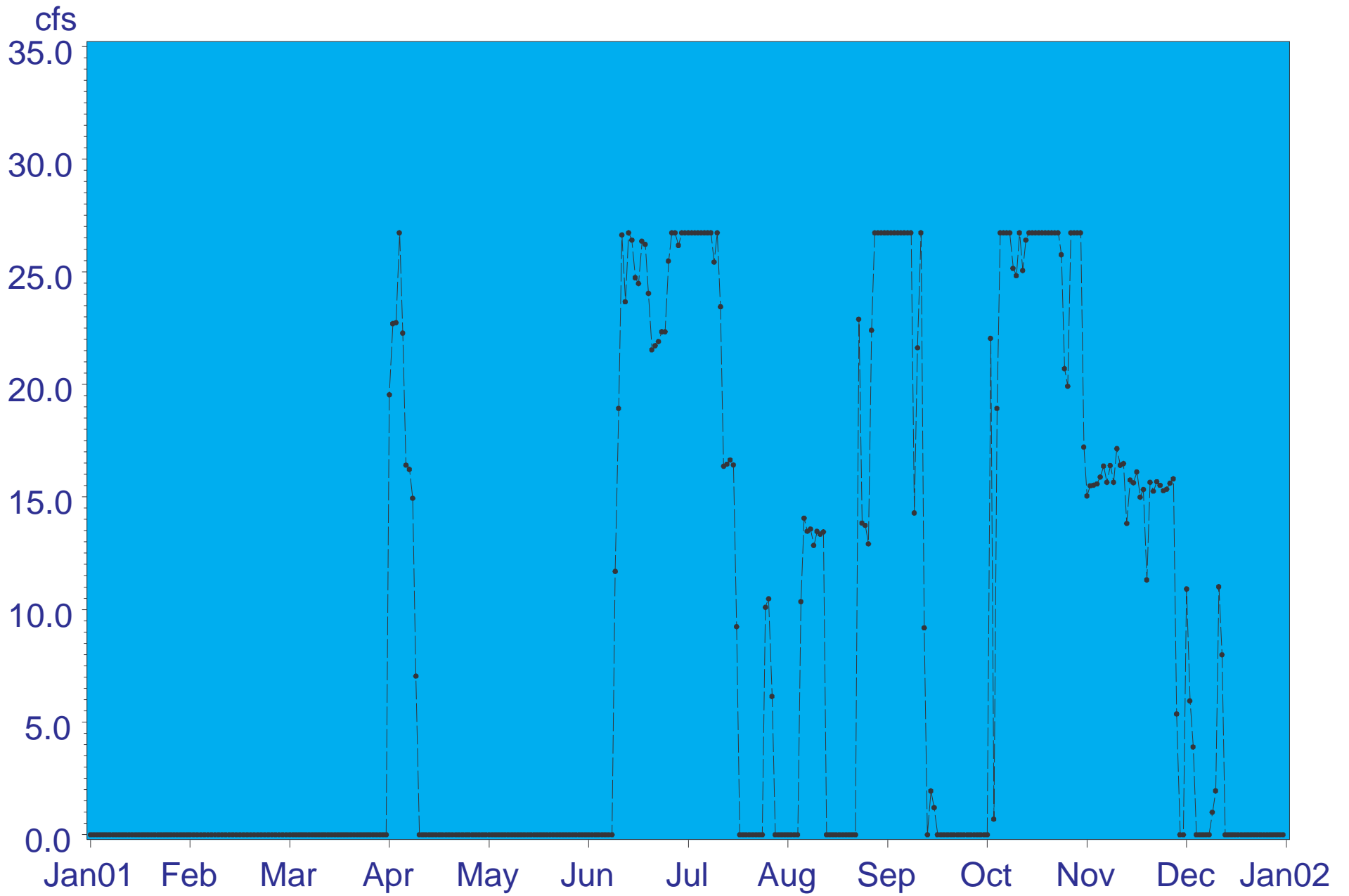


Figure 2.9 Daily Water Treatment Facility Withdrawals (2001)

Peace River Withdrawal (1980-2001)

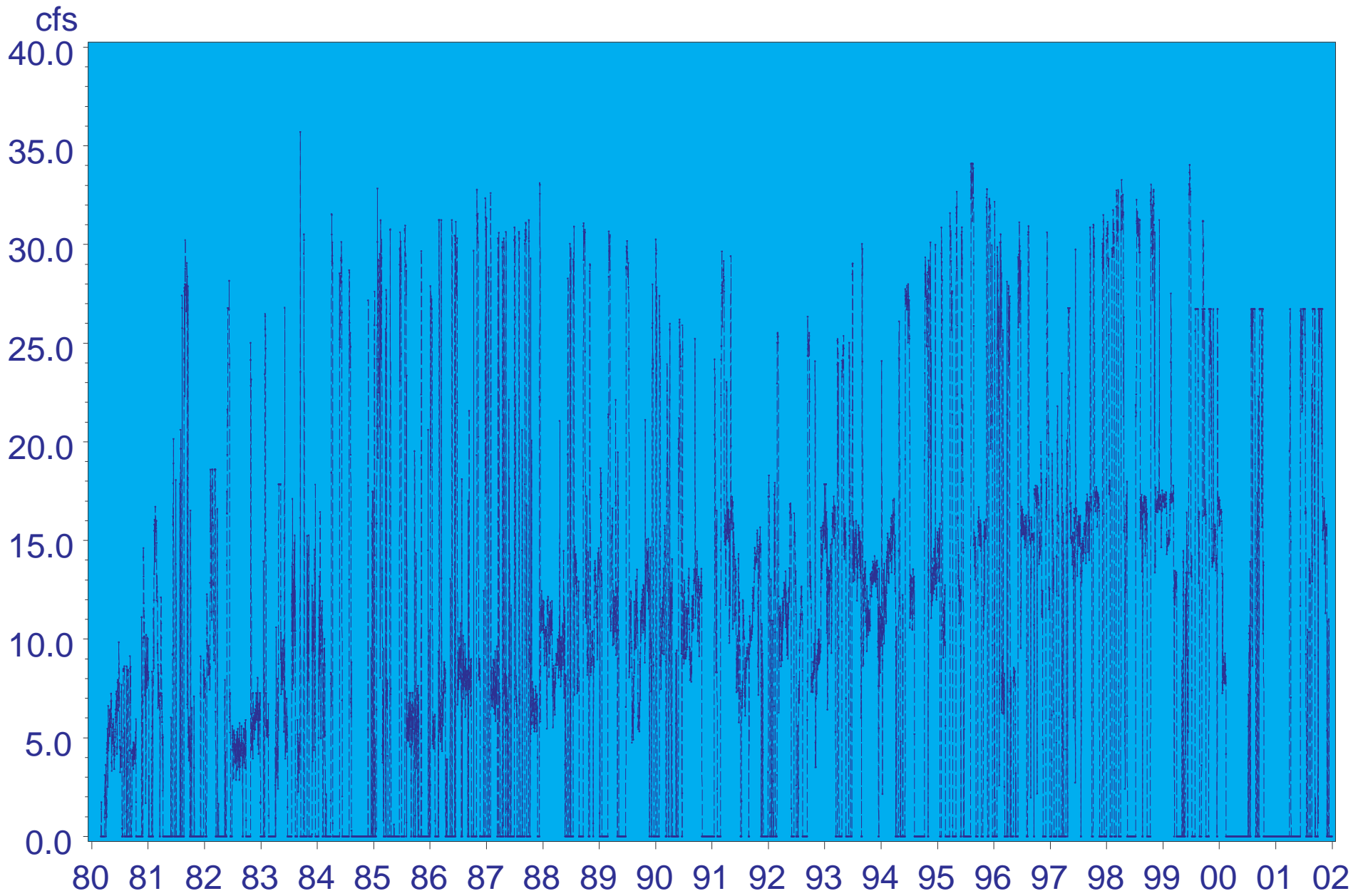


Figure 2.10 Daily Water Treatment Facility Withdrawals (1980-2001)

Peace River Withdrawal - Monthly Means (1980-2001)

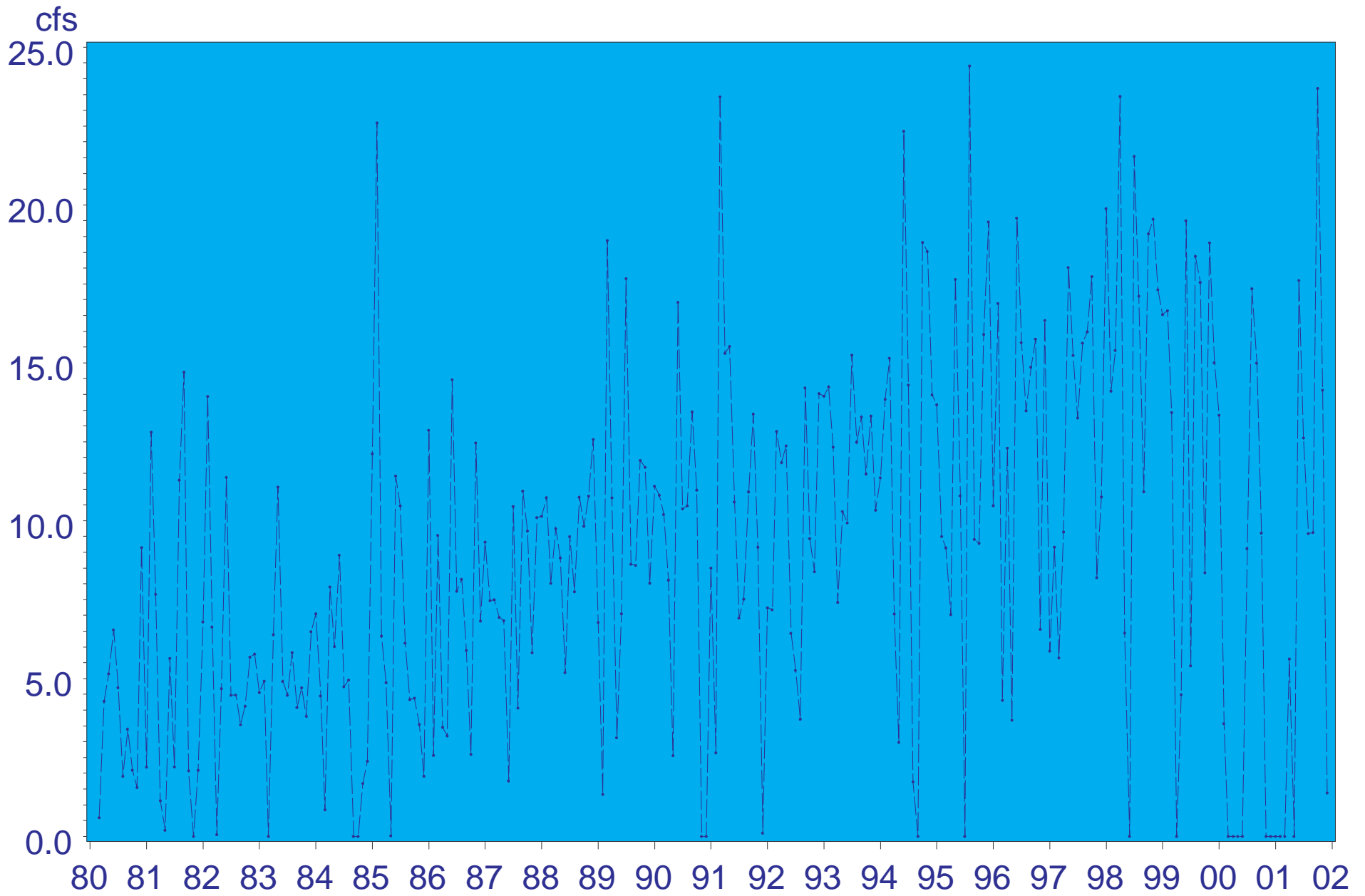


Figure 2.11 Monthly Mean Water Treatment Facility Withdrawals (1980-2001)

Peace River Withdrawal - 3-Month Moving Average (1980-2001)

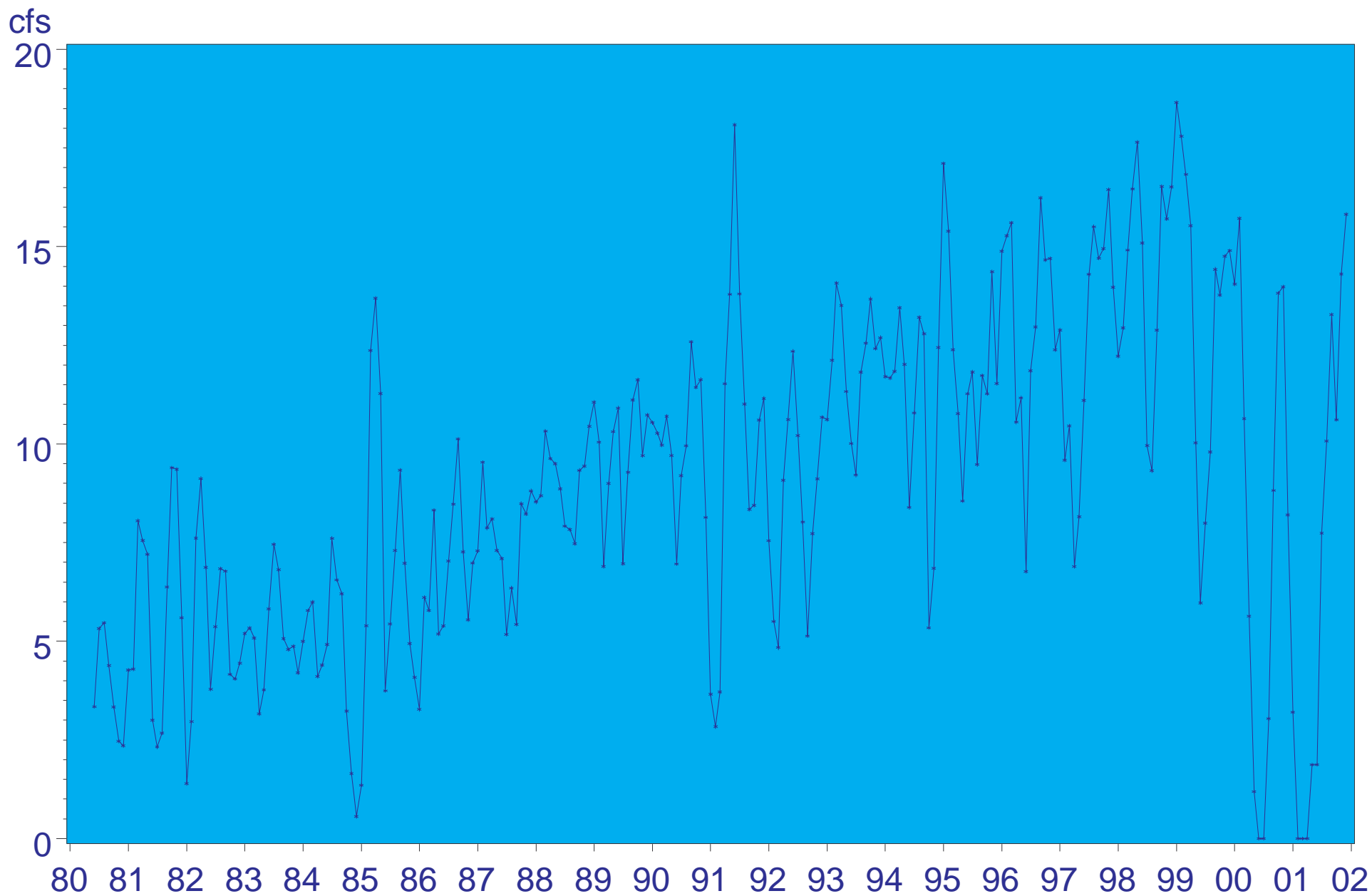


Figure 2.12 3-Month Moving Average Water Treatment Facility Withdrawals (1980-2001)

Peace River Flows at Arcadia and Withdrawals (2001)

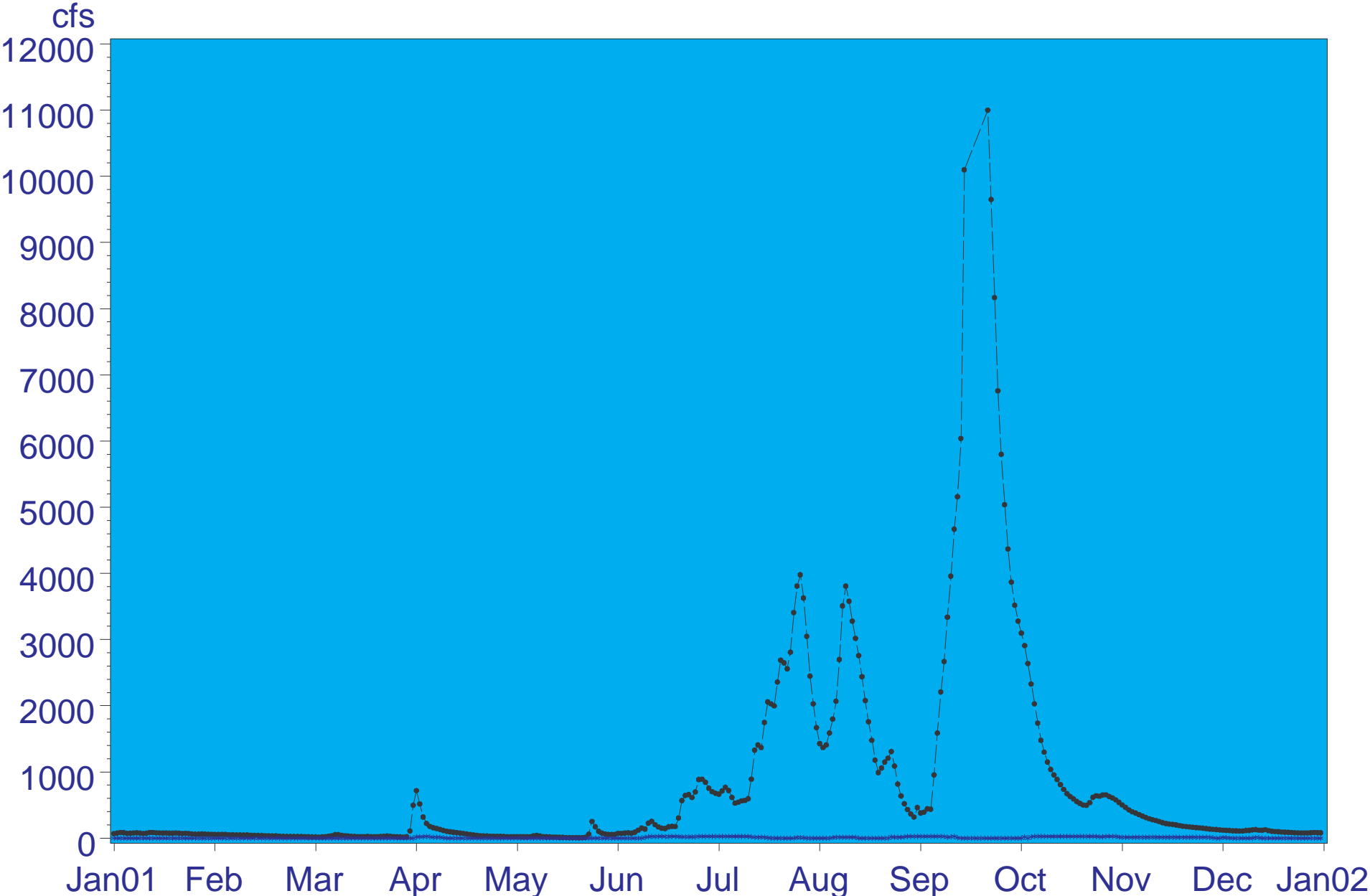


Figure 2.13 Peace River Flows at Arcadia and Water Treatment Facility Withdrawals (2001)

Peace at Arcadia+Horse+Joshua+Shell Flow and Withdrawals (2001)

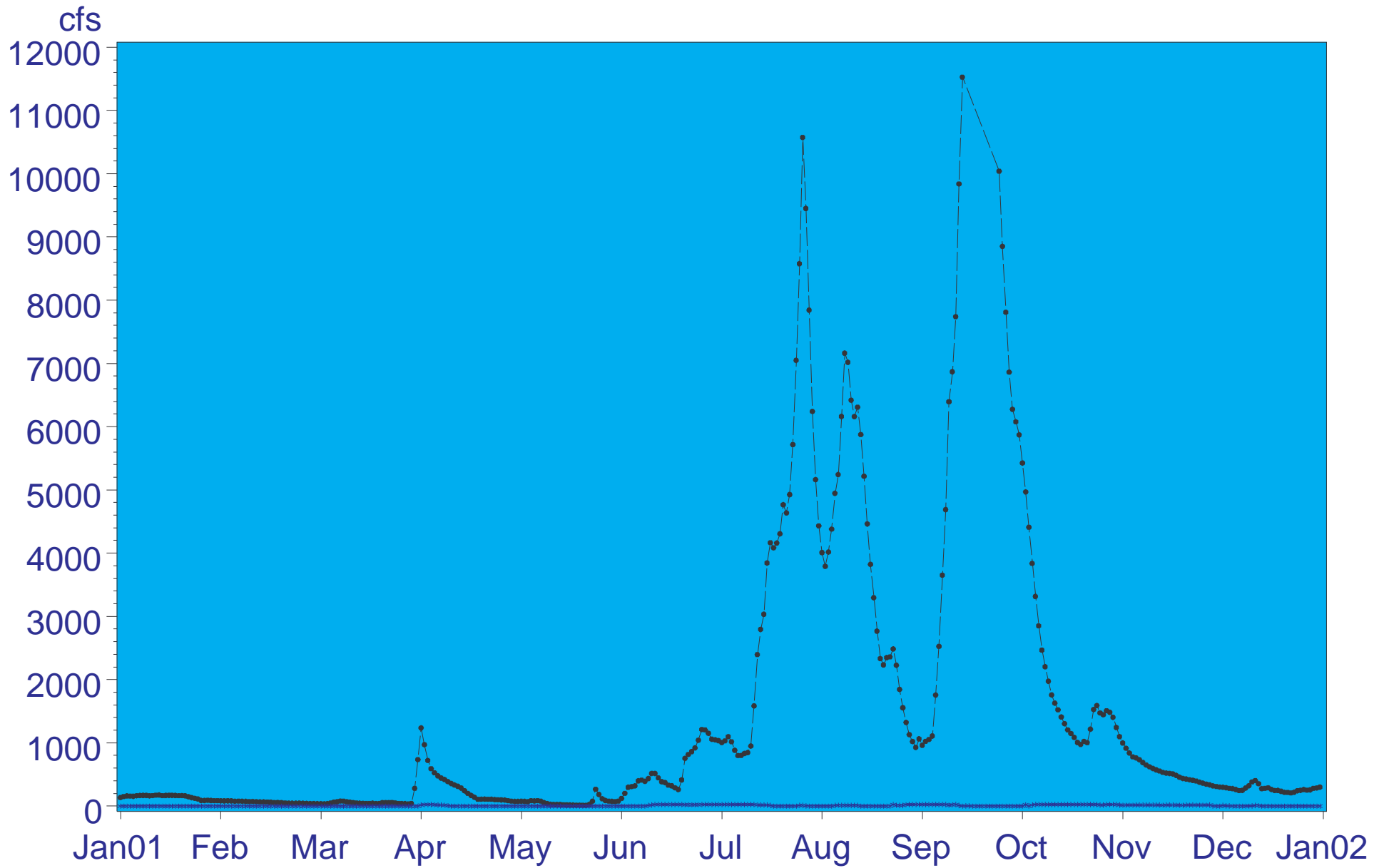


Figure 2.14 Peace River at Arcadia + Horse + Joshua + Shell Flow and Water Treatment Facility Withdrawals (2001)

Peace River Flows at Arcadia vs. Withdrawals (2001)

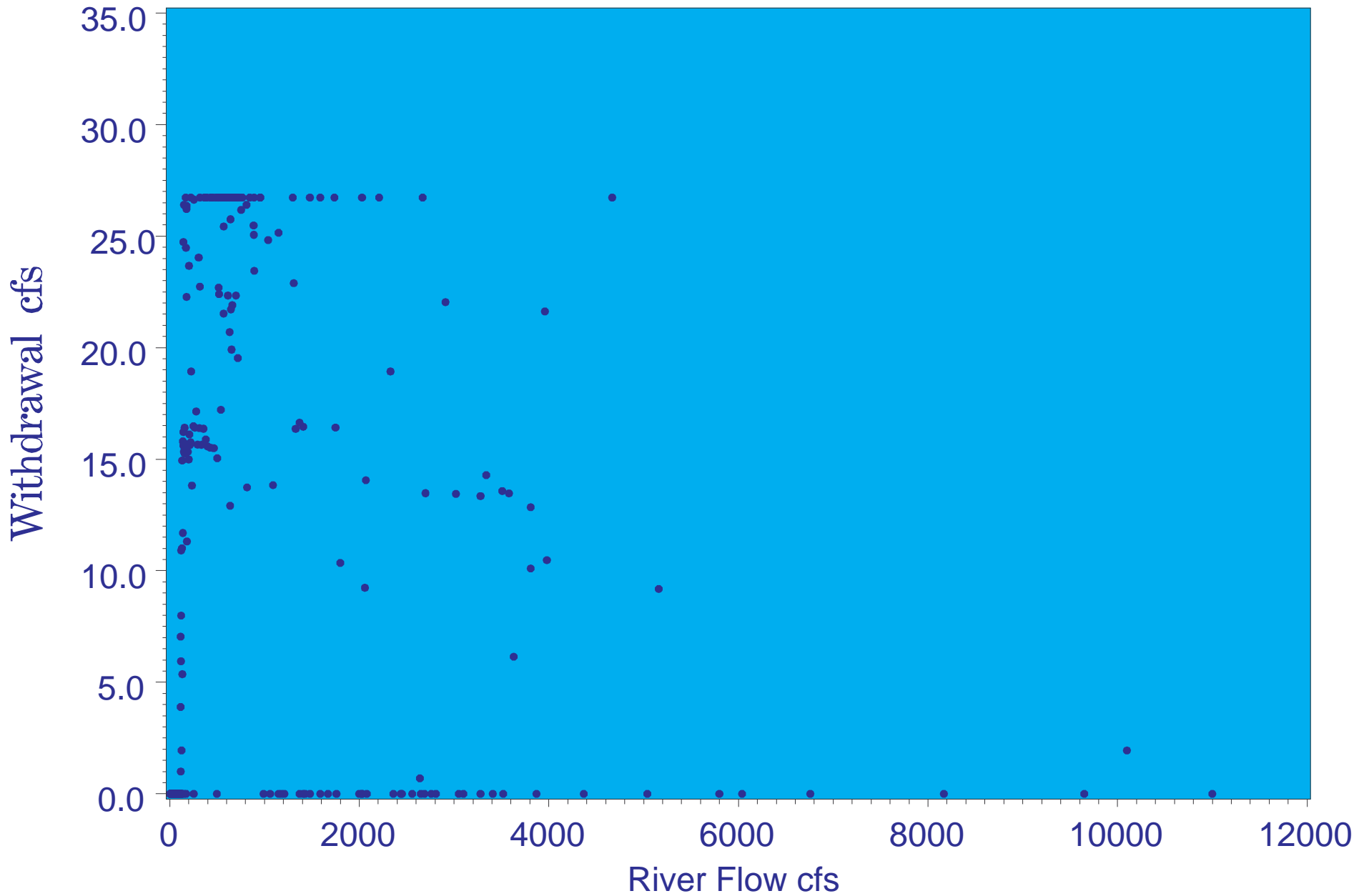


Figure 2.15 Peace River Flows at Arcadia vs. Water Treatment Facility Withdrawals (2001)

Peace River Flows at Arcadia vs. % Withdrawals (2001)

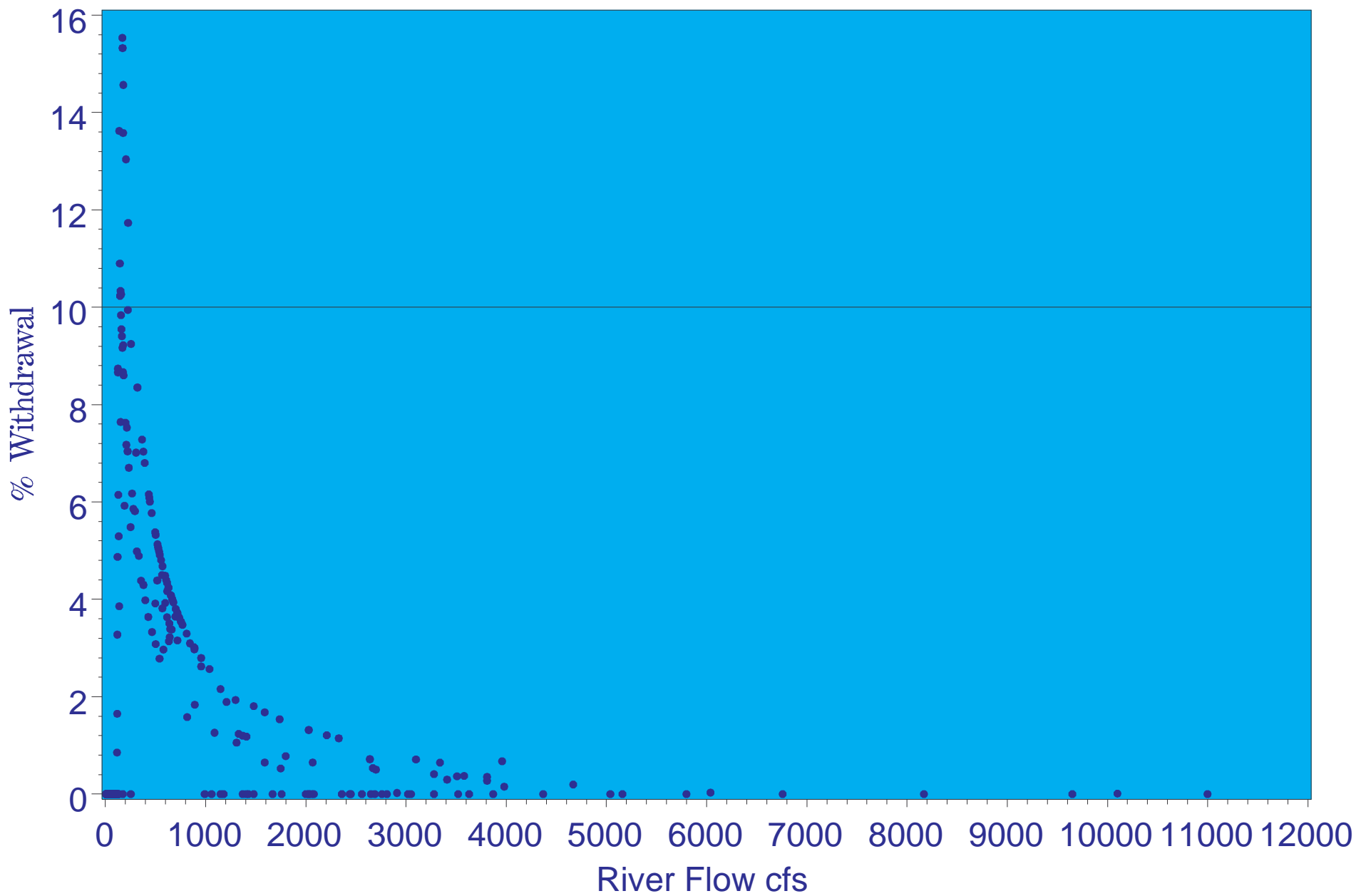


Figure 2.16 Peace River Flows at Arcadia vs. % Water Treatment Facility Withdrawals (2001)

[Back to Start](#)[Next Chapter](#)

Chapter III

Phytoplankton and Water Chemistry “Moving” Isohaline Locations

3.1 Introduction

The development of a comprehensive understanding of phytoplankton production and related community structure within the Charlotte Harbor system is fundamental to the development of knowledge about other interrelated systems and processes within the estuary, such as secondary production and nutrient cycling. A thorough understanding of those processes controlling phytoplankton production within Charlotte Harbor is necessary to quantify the estuary's immediate and long-term responses to various external inputs. A thorough long-term investigation of that portion of the upper Harbor's production attributable to phytoplankton assemblages meets the previous cited criteria by providing both: 1) measurement of populations which act as sensitive barometers of external change at a short (daily to weekly) temporal scale; and 2) insight into basic processes not only affecting water quality but having secondary widespread interrelations and effects upon other estuarine system components. Phytoplankton production generally represents an immediately available food resource, unlike other estuarine production such as that associated with seagrass, mangrove and saltmarsh habitats, where much of the resource becomes available through secondary processes. Of the various inputs into the Charlotte Harbor estuarine system, phytoplankton production represents both the largest single component of primary production and a food source directly accessible to many filter and detrital feeding organisms. Phytoplankton production and composition, due to the short generation times involved, have also been shown to be effective in demonstrating ephemeral, seasonal and long-term changes in water quality. Phytoplankton production represents a highly integrated estuarine component and can be used to provide information on both direct and predictive secondary impacts of external influences.

3.1.1 Current Long-Term Phytoplankton Study Elements

This report presents data collected during the nineteenth year (2001) of this unique long-term study of the relationships between phytoplankton productivity and Peace River flow into Upper Charlotte Harbor. Under the existing SWFWMD Water Use Permit, phytoplankton studies continue, in order to continue development of a database sufficiently large that current statistical evaluation of trends and developed predictive models can be enhanced. In addition, the permit continues the collection and thorough taxonomic evaluation of the seasonal abundance and dominance of observed phytoplankton species. This portion of the study seeks to quantify the specific responses

of major phytoplankton taxonomic groups to variations in the periodicity of freshwater inflow, and assess potential influences of Peace River Water Facility diversions.

The current HBMP study elements of phytoplankton production in Upper Charlotte Harbor are designed to develop the needed long-term base of data necessary to evaluate both short and long-term cycles in phytoplankton production in the upper estuarine system. Statistically comparable levels of phytoplankton ^{14}C fixation rates were measured, monthly, at each of four salinity-based isohaline locations between June 1983 and December 1999 (following which such measurements were discontinued). Although, direct in situ measurements of phytoplankton carbon uptake rates are no longer being measured, determinations continue to be made of phytoplankton biomass (chlorophyll *a*), population structure, related physical parameters, water column light profiles and analysis of the major chemical constituents associated with phytoplankton growth. The four sampling locations in this study represent non-fixed surface salinity zones, such that the monthly location of each isohaline is dependent upon the preceding amount of freshwater inflow from the Peace River. Table 3.1 summarizes the historical statistical distributions of these isohalines. The four salinity sampling zones are:

- Station 101 = 0 o/oo
- Station 102 = 5_7 o/oo
- Station 103 = 11_13 o/oo
- Station 104 = 20_22 o/oo

Table 3.1 Summary Statistics of the Four Isohaline Locations (Kilometers) from the Peace River's Mouth for the Period 1983-2001				
Isohaline	Minimum	Maximum	Mean	Median
0 o/oo	3.4	37.6	21.7	20.9
6 o/oo	-16.3	27.5	12.5	12.1
12 o/oo	-30.1	24.5	7.3	8.6
20 o/oo	-36.3	18.0	-0.4	2.2

To date, the most upstream occurrence of the 0 o/oo isohaline sampling location has been just over a quarter mile upstream of the point where Horse Creek joins the Peace River (June 2000). The most downstream occurrence of the 20 o/oo isohaline sampling location has been in the Gulf of Mexico just off Boca Grande (September 1988) (see [Figure 3.1](#)).

The relative location of each of these four isohalines during 2001 is shown in Figure 3.2, while long-term patterns for the period 1983-2001 are presented in Figures 3.3 and 3.4. The magnitude of the drought conditions in the Peace River watershed during first half of 2001 was evident, in that the upstream extents of all four isohalines were at or near historic maximums during this extended dry period.

Table 3.2 Comparisons of Isohaline Locations during 2001 and the Period 1983-2001.

Figure	Description
Figure 3.1	Study area with most upstream and downstream locations of salinity sampling zones
Figure 3.2	Relative distance (km) from the Mouth of the River (2001)
Figure 3.3	Relative distance from the Mouth of the River of 0 and 6 ppt salinity sampling zones (1983-2001)
Figure 3.4	Relative distance from the Mouth of the River of 12 and 20 ppt salinity sampling zones (1983-2001)
Figure 3.5	Box & Whiskers of relative distance (km) from the Mouth of the River (2001 & 1983-2000)

3.2 Methods for Phytoplankton Study Elements

The methodologies used to measure and evaluate the physical, chemical, and biological parameters encompassed within this investigation are outlined and described within the following sections.

3.2.1 *In Situ* Measurements of Physical Parameters

Depth, temperature, dissolved oxygen, conductivity, and pH were measured *in situ* with Hydrolab Surveyor systems. Profiles were made from the surface to the bottom in 0.5m increments at each sampling station location. Depth measurements were determined both on the basis of pre-measured marks on the unit's cable and the units depth sensor.

Pre-sampling instrument calibrations were conducted within 4 hours prior of use. Temperature was measured with a linear resistance thermistor, factory calibrated and accurate to within ± 0.2 °C. Dissolved oxygen (DO) was measured with a temperature-compensated, passive, polarographic cell, which measures the partial pressure of oxygen as parts per million (ppm or mg/l) of oxygen, ± 0.2 ppm. The probe is calibrated using the oxygen tension of water-saturated air (temperature corrected) as a standard.

The conductivity probe electrode was calibrated against a KCl solution of known conductivity. Probe response was then tested with a solution of known, low and high conductivity to ensure that the reading is within $\pm 1.0\%$ of the range selected. The probes are automatically temperature compensated to provide conductivity at 25 °C.

The Hydrolab pH probes are glass, KCl filled with silver/silver chloride reference electrodes and refillable junctions. They are automatically temperature compensated. Two buffer solutions of 7.0 and 10.0 pH (± 0.1 units) were used to calibrate the accuracy of the probe.

3.2.2 Light Profile

Light intensity profiles were utilized to gather sufficient data to calculate the water column extinction coefficient at each isohaline sampling location. A LI-COR quantum/radiometer/photometer equipped with an underwater quantum sensor was used to measure photosynthetically active radiation (400-700 nanometers). Light intensities (microeinsteins/m²/sec) were measured in the air just above the water surface, again just below the surface, and at six selected depths (20, 40, 60, 80, and 100 cm). Light intensity profile data, by month, at each isohaline sampling location during 2001 are presented along with complete analyses in [Appendix B](#).

3.2.3 Chlorophyll *a*

Ambient chlorophyll *a* levels are widely used to estimate phytoplankton biomass. For these investigations, chlorophyll *a* concentrations were determined spectrometrically for the: 1) greater than 20 microns; 2) 5 to 20 microns; and 3) less than 5 microns size fractions, from subsurface samples collected at each of the four isohalines. Chlorophyll *a* levels were determined for each of the three size fractions, both uncorrected and corrected for pheophytin, in order to provide comparable estimates of phytoplankton biomass.

3.2.4 Water Chemistry

Surface water samples were collected for analysis at each salinity-based station in pre-labeled, one-liter polyethylene containers. The containers were rinsed with sample water, filled and immediately placed in the dark on ice until returned to the laboratory following standard chain of custody and quality assurance procedures. Specific methods of analyses are listed in [Table 3.3](#).

3.2.5 Population Structure

Surface water samples were collected for taxonomic analysis at each salinity-based station in conjunction with phytoplankton biomass measurements. Samples for microscopic investigation were placed in one-liter polyethylene containers and immediately fixed with 4 ml of Lugol's solution, which is the preferred preservative for samples that may include significant numbers of flagellates. The samples were placed on ice in the dark for transportation back to the lab, where they were held in a refrigerator at 4 °C until prepared for counting. Extensive work has been completed in preparing a thorough photographic taxonomic inventory of the phytoplankton taxa seasonally present at the four salinity zones. To date over 500 taxa have been identified from samples collected. Samples were prepared for observation using a Zeiss inverted microscope utilizing the following settling procedures:

1. Samples were removed from the refrigerator and gently shaken to assure resuspension of all material.

2. Randomly selected subsamples totaling 5-200 ml (depending on the concentration of the material in the samples) were withdrawn and placed in 50 ml conical glass centrifuge tubes.
3. The tubes were then spun at approximately 50 x gravity for 45 minutes. Three to four drops of iodine solution were then added at the top of the tubes, which were then allowed to stand for at least 24 hrs.
4. At the end of the first settling period, the settled material in the bottom 2.5 ml and any cells adhering to the surface tension of each centrifuge tube was drawn off and placed in a 10 ml Zeiss inverted microscope settling chamber.
5. Two drops of iodine solution were again added to promote settling, and the composite samples were again allowed to stand undisturbed for 24 hrs.

Once the samples were prepared, the counting chambers were placed on a Zeiss inverted microscope for phytoplankton identification. Taxonomic determinations to the lowest practical taxonomy level were conducted from random fields using a modified strip method. To determine community structure, a standardized number of cells are identified (500). The majority of the taxonomic work was conducted using a 100X objective and 16X wide field oculars. As each observation was made, assigned genus and species codes are recorded. After having recorded the taxonomic determinations of 500 cells, additional notes on each sample were compiled using a combination of low and high power objectives. Determinations of the number of cells per unit volume were conducted on the same samples using a 10X ocular grid and 100X objective. The total number of cells in randomly selected fields, taken in a modified strip method, were recorded on a data sheet and appropriate dilution calculations made.

3.2.6 Taxonomic Determinations of Phytoplankton Community Structure

In 1989 the collection of monthly samples for the analysis of phytoplankton community structure was begun in conjunction with the long-term study of physical/chemical water quality and primary production at the four monitored salinity zones. Phytoplankton community structure has long been used in other studies as a tool in assessing both temporal and long-term changes in water quality in estuarine systems. A complete presentation of all the phytoplankton taxonomic data collected during 2001, listing: 1) the taxonomic structure; 2) percent composition of the major taxonomic groups; and 3) species diversity and evenness indices, are presented by salinity zone, month and year in [Appendix D](#).

Historically, microscopic surveys of phytoplankton samples collected concurrently with the chlorophyll *a* biomass estimates have generally indicated the relative dominance of the following groups.

- At the stations characterized by intermediate and higher salinities, the smallest phytoplankton size fraction (<5 microns) is often dominated by Cryptophyceae species (*Chroomanas* spp. and *Cryptomonas* spp.). Small Bacillariophyceae (*Thalossiosira* spp., *Nitzschia* spp., *Navicula* spp.) are also often significant portions of the nano-plankton components at these salinities.

- At the higher salinities, which are under greater influences from Gulf waters, chain-forming and larger diatoms frequently dominated the net-plankton size fraction. Seasonally important diatoms at these locations were *Skeletonema costatum*, *Asterionella glacialis*, *Odentella sinensis*, *Corethron criophilum*, *Coscinodiscus centralis*, and *Coscinodiscus eccentricus*, as well as species of *Chaetoceros* and *Rizosolenia*. Dinophyceae (*Ceratium* spp. and *Peridinium* spp.) were often seasonally common in the largest size fraction during the summer months at some of the higher salinity stations.
- At intermediate salinities, blooms of *Skeletonema costatum* were commonly associated with relative increases in carbon uptake and chlorophyll *a* within the largest size fraction. In certain instances, however, dinoflagellates (*Prorocentrum micans*, *P. minimum*, *Gymnodinium* spp. and *Gyrodinium* spp.) were also major components of the largest size fraction. Specifically, at 6 and 12 o/oo salinity at the mouth of the Peace River, the larger size fractions were seasonally dominated by blooms of *Gyrodinium splendens*.
- The picoplankton size fraction (< 5 microns), at the lower salinity stations, often contained significant numbers of non-flagellated, smooth, circular to ovoid, green cells. Taxonomically, such cells probably include both Cyanophyceae (*Synechococcus* spp., *Chroococcus* spp., *Anacystis* spp.) as well as Chlorophyceae (*Nannochloris* spp., *Chlorella* spp.). Small phytoflagellates (*Chlamydomonas* spp., *Carteria* spp., *Chroomonas* spp., *Cryptomonas* spp.) were also common components of the picoplankton at the lowest salinities. The larger size fractions in the riverine portions of the estuary are generally characterized by mixtures of Chlorophyceae (*Ankistrodesmus* spp., *Coelastrum* spp., *Crucigenia* spp., *Pediastrum* spp., *Scenedesmus* spp., *Tetraedron* spp.), Bacillariophyceae (*Cyclotella* spp., *Nitzschia* spp., *Navicula* spp., *Fragillaria* spp.) and Cyanophyceae (*Anabaena* spp., *Anacystis* spp.).

The phytoplankton counts from the 2001 samples were somewhat different than the above described typical pattern in that the small Cyanophyceae *Synechococcus aquaticus* dominated many of the samples. Although this taxa has historically usually been present, as the extended period of drought continued, it has become increasingly dominant in the Peace River/Charlotte Harbor phytoplankton samples.

3.3 Physical and Water Chemistry Data Collected in the “Moving” Isohaline Locations in Conjunction With Phytoplankton Study Elements

Water quality data collected at the four “moving” isohaline locations in conjunction with the 2001 phytoplankton HBMP study element are presented and summarized in the following tables and figures. **Tables 3.4, 3.5** and **3.6** summarize the determinations of a number of the key physical, chemical and biological measurements. Seasonal representations of selected parameters are further graphically presented in Figures 3.6 through 3.15 (see Table 3.7). Complete *in situ* physical water column profiles at each of

the four salinity zones by month are present in [Appendix A](#). Surface water chemistry results at each salinity zone during each month are presented in [Appendix C](#).

Relationships of the 2001 data to those data collected during the preceding 18 years of study (1983-2000) are shown for selected physical, chemical and biological measurements in Figures 3.16 through 3.23 (see Table 3.8). Further comparisons of these parameters are presented as box and whisker plots by salinity for both 2001 and long-term data collected between 1983-2000 in Figures 3.24 through 3.31. The box and whisker plots display a detailed distribution of the data, showing the median (50th percentile) at the center of the box and the 25th and 75th percentiles at the bottom and top of the box, respectively. The whiskers are lines that extend from the 25th percentile to the 10th percentile and 75th percentile to the 90th percentile. Extreme values (outside the 10th-90th percentiles) are represented by dots at the ends of the whiskers.

Table 3.7 Summary Tables and Graphics of Key Physical and Chemical Measurements for Data Collected in 2001 at the Four Isohaline Locations.

Table/Figure	Description
Table 3.4	Physical and Chemical Parameters – Nutrients
Table 3.5	Physical and Chemical Parameters
Table 3.6	Determinations of Chlorophyll <i>a</i> by Size Fraction
Figure 3.6	2001 Temperature at salinity sampling zones
Figure 3.7	2001 Color at salinity sampling zones
Figure 3.8	2001 Extinction Coefficient at salinity sampling zones
Figure 3.9	2001 Nitrite/Nitrate at salinity sampling zones
Figure 3.10	2001 Ortho-Phosphorus at salinity sampling zones
Figure 3.11	2001 Atomic N/P Ratio at salinity sampling zones
Figure 3.12	2001 Silica at salinity sampling zones
Figure 3.13	2001 Chlorophyll <i>a</i> (mg/m ³) at salinity sampling zones
Figure 3.14	2001 Chlorophyll <i>a</i> (mg/m ³) Among Size Fractions
Figure 3.15	2001 Percent Chlorophyll <i>a</i> Among Size Fractions

Table 3.8 Summary Graphics of Key Physical and Chemical Measurements for Data Collected during the Period 1983-2001 at the Four Isohaline Locations.

Figure	Description
Figure 3.16	1983-2001 Temperature at salinity sampling zones
Figure 3.17	1983-2001 Color at salinity sampling zones
Figure 3.18	1983-2001 Extinction Coefficient at salinity sampling zones
Figure 3.19	1983-2001 Nitrite/Nitrate at salinity sampling zones
Figure 3.20	1983-2001 Ortho-Phosphorus at salinity sampling zones
Figure 3.21	1983-2001 Atomic Nitrogen/Phosphorus Ratio at salinity sampling zones

Table 3.8 Summary Graphics of Key Physical and Chemical Measurements for Data Collected during the Period 1983-2001 at the Four Isohaline Locations.

Figure	Description
Figure 3.22	1983-2001 Silica at salinity sampling zones
Figure 3.23	1983-2001 Chlorophyll <i>a</i> (mg/m ³) at salinity sampling zones
Figure 3.24	Box and Whisker Plots of Temperature at salinity sampling zones (2001) & (1983-2000)
Figure 3.25	Box and Whisker Plots of Color at salinity sampling zones (2001) & (1983-2000)
Figure 3.26	Box and Whisker Plots of Extinction Coefficient at salinity sampling zones (2001) & (1983-2000)
Figure 3.27	Box and Whisker Plots of Nitrite/Nitrate at salinity sampling zones 2001) & (1983-2000)
Figure 3.28	Box and Whisker Plots of Ortho-Phosphorus at salinity sampling zones (2001) & (1983-2000)
Figure 3.29	Box and Whisker Plots of Atomic N/P Ratio at salinity sampling zones (2001) & (1983-2000)
Figure 3.30	Box and Whisker Plots of Silica at salinity sampling zones (2001) & (1983-2000)
Figure 3.31	Box and Whisker Plots of Chlorophyll <i>a</i> (mg/m ³) at salinity sampling Zones (2001) & (1983-2000)

3.4 Summary

In summary, the data collected during 2001 indicate:

- **Temperature** – Following an unusually cold period in December 2000, average water temperatures throughout most of 2001 were typical of the long-term averages. However, water temperatures at the end of the year (November and December 2001) were unusually warm (see [Table 3.9](#) for statistical comparisons between mean 2001 values and long-term averages of this and the following parameters).
- **Water Color** – The average color levels were affected by unusually low flows during the drought conditions that characterized the watershed during the first half of the year, and the short-term, very high freshwater inflows during the summer. The very low flows during the first half of the year resulted in overall median water color levels being lower than the historical average in the freshwater reaches of the river. However, the brief, very high freshwater inflows during September resulted in medians water color during 2001 being slightly higher than average at the two highest isohalines.
- **Extinction Coefficient** – The rates of measured light attenuation at each of the four isohalines reflect both ambient color and phytoplankton production. These measurements reflect the influences of long-term low freshwater inflows during first part of 2001. As a result, the overall decreases in light extinction during 2001 were progressively greatest moving upstream.

- **Nitrite/Nitrate Nitrogen-** During 2001, the average concentrations of this major inorganic form of nitrogen were very similar to the long-term averages at each of the four measured salinities. A comparison among the isohalines indicates that a strong gradient exists in inorganic nitrogen in the upper estuary. Concentrations typically decrease rapidly with increasing salinity. Seasonally, ambient inorganic nitrogen concentrations decline to their lowest levels during the late spring dry season, as phytoplankton populations respond to increasing water temperatures and light.
- **Ortho-Phosphorus** - Average inorganic phosphorus concentrations during 2001 were very similar to the long-term averages (1983-2000) at each of the four isohalines. Since ambient inorganic phosphorous concentrations reflect the “very” high natural levels in the watershed, unlike inorganic nitrogen concentrations differences among the four isohalines in phosphorous levels reflect conservative dilution and not biological uptake.
- **Nitrogen to Phosphorus Atomic ratios** – Calculated atomic inorganic nitrogen to phosphorus ratios for ambient measured concentrations in 2001, as indicated by the long-term averages, show that nitrogen to always be the limiting macronutrient at each of the four isohalines.
- **Silica** - Low concentrations during the first half of 2001 reflected the much lower than average freshwater inputs. However, as a result of the very high summer flows, reactive silica concentrations were overall above average at the two downstream isohalines.
- **Chlorophyll *a*** – The observed low concentrations measured at the 0 o/oo isohaline reflects the combined influences of lower than average nutrient inputs resulting from the historically low flows during the first half of 2001, and the very high color associated with the high summer wet-season flows. At the other three isohalines, chlorophyll *a* levels were generally typical of the long-term averages. However, the pattern during 2001 of extremely low flows (low nutrients), following by very rapid increases in flows (high color, low light) resulted in an overall lack of phytoplankton “blooms”, which historically have been typical in the early spring and late fall at the two intermediate isohalines.

[Back to Start](#)[Next Chapter](#)

Table 3.3 Water Chemistry Methods

<i>Parameter</i>		<i>Method</i>	<i>Detection Limit</i>
Color		EPA 110.2	1.0 Co_Pt Units
Chloride		EPA 325.2	0.4 mg/l
Turbidity		EPA 180.1	0.1 NTU
Total Suspended Solids		EPA 160.2	0.8 mg/L
Volatile Suspended Solids		EPA 160.4	0.8 mg/L
Alkalinity		EPA 310.1	0.1 mg/l
NO₂+NO₃ Nitrogen		EPA 353.2	0.002 mg/l
NH₃+NH₄ Nitrogen		EPA 350.1	0.002 mg/l
Total Kjeldahl		EPA 351.2	0.1 mg/l
Ortho-Phosphorus		EPA 365.2	0.002 mg/l
Total Phosphorus		EPA 365.4	0.002 mg/l
Silica		EPA 370.1	0.05 mg/l
Inorganic Carbon		SM 5310 B	1.0 mg/l
Total Organic Carbon		EPA 415.1	1.0 mg/l
Dissolved Organic Carbon		SM 5310 B	1.0 mg/l
Iron		EPA 236.1	0.04 mg/l
Chlorophyll <i>a</i>		Fluometric SM 10200H.3	0.25 ug/l
		Spectrophotometric SM10200H.2	2.0 ug/l

Table 3.4 Physical and Chemical Water Quality Parameters

Year	Month	Sample Location	Temperature (C)	Color (CPU)	Turbidity	Light Extinction Coefficient	Total Organic Carbon (mg/l)	Dissolved Organic Carbon (mg/l)	Iron (mg/l)
2001	JAN	0 o/oo	12.5	47	1.0	0.8	7.72	7.67	0.07
2001	JAN	6 o/oo	13.1	60	2.6	1.2	9.34	8.86	0.13
2001	JAN	12 o/oo	12.6	55	2.3	1.1	9.05	7.92	0.18
2001	JAN	20 o/oo	11.7	46	2.1	1.0	6.91	6.55	0.24
2001	FEB	0 o/oo	21.0	46	0.9	0.8	8.46	8.56	0.52
2001	FEB	6 o/oo	20.8	60	3.1	1.6	11.00	9.00	0.09
2001	FEB	12 o/oo	20.2	50	2.5	1.2	9.56	8.40	0.14
2001	FEB	20 o/oo	20.6	49	2.5	1.3	8.19	8.05	0.12
2001	MAR	0 o/oo	25.6	60	2.3	0.9	8.77	8.76	0.08
2001	MAR	6 o/oo	25.8	70	4.6	1.5	18.10	9.54	0.16
2001	MAR	12 o/oo	25.6	70	3.4	1.3	17.90	17.30	0.13
2001	MAR	20 o/oo	25.2	60	3.5	1.2	18.10	17.30	0.22
2001	APR	0 o/oo	.	115	2.2	1.4	17.70	17.60	0.23
2001	APR	6 o/oo	23.7	80	4.5	1.8	12.00	11.50	0.17
2001	APR	12 o/oo	23.1	60	5.0	1.5	9.97	9.82	0.28
2001	APR	20 o/oo	23.0	49	4.9	1.7	9.22	7.90	0.29
2001	MAY	0 o/oo	25.7	55	1.4	0.8	11.70	11.40	0.04
2001	MAY	6 o/oo	25.1	85	3.5	1.3	14.00	13.10	0.08
2001	MAY	12 o/oo	24.6	65	3.1	1.1	12.50	11.80	0.16
2001	MAY	20 o/oo	23.2	48	3.0	1.1	9.72	8.82	0.32
2001	JUN	0 o/oo	29.6	65	1.5	0.8	10.50	11.00	0.04
2001	JUN	6 o/oo	29.8	60	3.1	1.3	12.80	12.00	0.13
2001	JUN	12 o/oo	29.1	75	3.4	1.4	12.40	11.50	0.17
2001	JUN	20 o/oo	28.9	75	4.8	1.5	11.00	10.80	0.29

Table 3.4 Physical and Chemical Water Quality Parameters (continued)

Year	Month	Sample Location	Temperature (C)	Color (CPU)	Turbidity	Light Extinction Coefficient	Total Organic Carbon (mg/l)	Dissolved Organic Carbon (mg/l)	Iron (mg/l)
2001	JUL	0 o/oo	28.4	150	2.3	1.7	17.40	16.00	0.20
2001	JUL	6 o/oo	29.9	130	2.5	1.6	16.10	15.60	0.23
2001	JUL	12 o/oo	29.3	95	4.0	1.6	14.30	13.10	0.39
2001	JUL	20 o/oo	29.2	75	3.9	1.4	10.40	9.25	0.63
2001	AUG	0 o/oo	30.8	380	2.8	3.7	34.90	35.10	0.70
2001	AUG	6 o/oo	31.8	300	2.3	2.3	24.20	23.80	0.39
2001	AUG	12 o/oo	31.8	230	2.2	1.9	20.40	20.30	0.31
2001	AUG	20 o/oo	31.0	210	2.1	1.4	18.80	18.10	0.27
2001	SEP	0 o/oo	23.9	306	3.0	2.8	31.90	32.50	0.43
2001	SEP	6 o/oo	26.7	236	2.4	2.5	21.70	22.90	0.33
2001	SEP	12 o/oo	26.9	143	2.0	1.8	16.00	20.30	0.26
2001	SEP	20 o/oo	26.8	93	2.2	1.4	10.60	14.40	0.27
2001	OCT	0 o/oo	25.9	180	6.1	3.5	36.70	38.30	0.70
2001	OCT	6 o/oo	25.6	120	9.8	3.8	29.50	28.10	0.46
2001	OCT	12 o/oo	25.2	100	6.2	2.5	28.10	26.80	0.37
2001	OCT	20 o/oo	26.1	70	3.7	1.7	13.20	12.80	0.38
2001	NOV	0 o/oo	22.3	220	2.1	2.6	25.60	25.20	0.47
2001	NOV	6 o/oo	23.8	180	5.0	2.7	23.70	23.20	0.47
2001	NOV	12 o/oo	23.3	140	4.0	2.1	19.50	19.60	0.52
2001	NOV	20 o/oo	24.1	80	1.5	1.4	11.70	12.80	0.80
2001	DEC	0 o/oo	24.1	90	3.4	1.8	14.20	14.70	0.30
2001	DEC	6 o/oo	24.7	95	6.1	2.1	16.80	16.00	0.34
2001	DEC	12 o/oo	24.5	160	5.4	2.1	14.10	14.30	0.27
2001	DEC	20 o/oo	24.4	60	4.5	1.2	10.10	10.90	0.32

Table 3.5 Physical and Chemical Water Quality Parameters - Nutrients

Year	Month	Sample Location	Ammonia/ Ammonium (mg/l)	Nitrite/ Nitrate (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Orthophosphorus (mg/l)	Total Phosphorus (mg/l)	Available N/P Atomic Ratio	Silica (mg/l)
2001	JAN	0 o/oo	0.021	1.240	0.84	0.468	0.553	6.2	1.52
2001	JAN	6 o/oo	0.010	0.153	1.02	0.481	0.562	0.8	1.19
2001	JAN	12 o/oo	0.010	0.009	0.99	0.348	0.412	0.1	1.18
2001	JAN	20 o/oo	0.010	0.010	0.91	0.188	0.249	0.2	1.16
2001	FEB	0 o/oo	0.032	0.705	0.84	0.370	0.401	4.6	0.33
2001	FEB	6 o/oo	0.010	0.205	1.19	0.297	0.368	1.7	0.69
2001	FEB	12 o/oo	0.022	0.041	0.99	0.226	0.282	0.6	0.88
2001	FEB	20 o/oo	0.017	0.002	0.90	0.151	0.204	0.3	1.06
2001	MAR	0 o/oo	0.074	0.087	0.97	0.686	0.760	0.5	0.62
2001	MAR	6 o/oo	0.010	0.034	1.12	0.450	0.564	0.2	1.16
2001	MAR	12 o/oo	0.101	0.052	1.04	0.326	0.402	1.1	1.75
2001	MAR	20 o/oo	0.015	0.009	1.10	0.166	0.260	0.3	1.98
2001	APR	0 o/oo	0.087	2.000	1.24	0.603	0.704	7.9	3.05
2001	APR	6 o/oo	0.010	0.380	1.15	0.464	0.575	1.9	1.74
2001	APR	12 o/oo	0.010	0.038	0.99	0.295	0.402	0.4	1.42
2001	APR	20 o/oo	0.010	0.003	0.81	0.184	0.281	0.2	0.97
2001	MAY	0 o/oo	0.028	0.014	1.03	0.623	0.711	0.2	0.46
2001	MAY	6 o/oo	0.011	0.011	1.27	0.554	0.658	0.1	1.59
2001	MAY	12 o/oo	0.020	0.044	1.27	0.396	0.400	0.4	1.80
2001	MAY	20 o/oo	0.010	0.012	1.15	0.209	0.214	0.2	1.20
2001	JUN	0 o/oo	0.082	0.293	1.12	0.702	0.735	1.2	1.41
2001	JUN	6 o/oo	0.038	0.046	1.28	0.675	0.760	0.3	1.02
2001	JUN	12 o/oo	0.079	0.055	1.34	0.561	0.634	0.5	1.32
2001	JUN	20 o/oo	0.056	0.034	1.42	0.358	0.463	0.6	1.61

Table 3.5 Physical and Chemical Water Quality Parameters – Nutrients (continued)

Year	Month	Sample Location	Ammonia/ Ammonium (mg/l)	Nitrite/ Nitrate (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Orthophosphorus (mg/l)	Total Phosphorus (mg/l)	Available N/P Atomic Ratio	Silica (mg/l)
2001	JUL	0 o/oo	0.058	0.841	1.10	0.700	0.831	2.9	3.41
2001	JUL	6 o/oo	0.133	0.428	1.62	0.578	0.685	2.2	3.19
2001	JUL	12 o/oo	0.080	0.149	1.55	0.382	0.503	1.4	1.79
2001	JUL	20 o/oo	0.019	0.018	1.52	0.259	0.388	0.3	1.00
2001	AUG	0 o/oo	0.113	0.382	1.86	0.547	0.747	2.1	3.99
2001	AUG	6 o/oo	0.299	0.136	1.92	0.347	0.469	2.9	3.62
2001	AUG	12 o/oo	0.208	0.118	1.67	0.291	0.395	2.6	2.99
2001	AUG	20 o/oo	0.098	0.049	1.47	0.238	0.275	1.4	2.28
2001	SEP	0 o/oo	0.015	0.308	1.36	0.568	0.622	1.3	2.73
2001	SEP	6 o/oo	0.208	0.189	1.76	0.409	0.454	2.2	2.96
2001	SEP	12 o/oo	0.278	0.079	1.65	0.283	0.365	2.9	2.92
2001	SEP	20 o/oo	0.249	0.037	1.42	0.171	0.216	3.8	2.60
2001	OCT	0 o/oo	0.074	0.367	1.76	0.798	0.933	1.3	4.46
2001	OCT	6 o/oo	0.207	0.206	2.03	0.496	0.723	1.9	3.79
2001	OCT	12 o/oo	0.302	0.112	0.81	0.356	0.461	2.7	3.38
2001	OCT	20 o/oo	0.301	0.042	1.23	0.225	0.262	3.5	2.63
2001	NOV	0 o/oo	0.064	0.770	1.26	0.688	0.780	2.8	5.42
2001	NOV	6 o/oo	0.043	0.220	1.64	0.435	0.540	1.4	3.41
2001	NOV	12 o/oo	0.015	0.013	1.43	0.270	0.352	0.2	1.94
2001	NOV	20 o/oo	0.015	0.007	1.06	0.146	0.191	0.3	1.15
2001	DEC	0 o/oo	0.047	0.912	0.77	0.803	0.894	2.7	4.02
2001	DEC	6 o/oo	0.028	0.386	1.20	0.524	0.650	1.8	3.56
2001	DEC	12 o/oo	0.028	0.241	1.09	0.366	0.470	1.7	2.86
2001	DEC	20 o/oo	0.059	0.133	0.95	0.223	0.310	2.0	2.02

Table 3.6 Determinations of Chlorophyll *a* by Size Fractions

Year	Month	Sample Location	Chlorophyll <i>a</i> >20 um Fraction (mg/m3)	Chlorophyll <i>a</i> 20><5 um Fraction (mg/m3)	Chlorophyll <i>a</i> 5> um Fraction (mg/m3)	% Chlorophyll <i>a</i> >20 um Size Fraction	% Chlorophyll <i>a</i> 20><5 um Size Fraction	% Chlorophyll <i>a</i> 5> um Size Fraction
2001	JAN	0 o/oo	0.1	0.5	1.7	4.8	19.8	75.3
2001	JAN	6 o/oo	0.6	3.7	23.4	2.2	13.4	84.5
2001	JAN	12 o/oo	2.3	0.0	20.3	10.2	0.0	89.8
2001	JAN	20 o/oo	0.1	0.7	9.7	1.0	6.3	92.8
2001	FEB	0 o/oo	0.0	-0.1	1.1	2.0	0.0	100.0
2001	FEB	6 o/oo	1.5	-1.4	37.0	4.0	0.0	99.7
2001	FEB	12 o/oo	0.0	0.0	15.2	0.0	0.0	100.0
2001	FEB	20 o/oo	0.2	0.7	6.0	3.0	9.7	87.2
2001	MAR	0 o/oo	0.7	0.4	1.6	24.4	16.3	59.3
2001	MAR	6 o/oo	4.0	0.3	25.4	13.5	1.0	85.5
2001	MAR	12 o/oo	1.8	0.0	9.9	15.2	0.2	84.6
2001	MAR	20 o/oo	1.6	1.6	5.4	18.3	18.6	63.1
2001	APR	0 o/oo	0.0	0.0	1.8	0.0	0.0	100.0
2001	APR	6 o/oo	1.6	4.3	47.9	3.0	8.0	89.0
2001	APR	12 o/oo	2.8	1.8	27.1	8.8	5.7	85.5
2001	APR	20 o/oo	2.5	2.1	14.3	13.2	11.1	75.7
2001	MAY	0 o/oo	0.0	0.0	2.9	1.0	0.0	99.0
2001	MAY	6 o/oo	0.6	1.4	19.3	2.8	6.6	90.6
2001	MAY	12 o/oo	0.5	-0.2	10.6	4.6	0.0	97.2
2001	MAY	20 o/oo	0.5	0.7	10.6	4.2	5.9	89.8
2001	JUN	0 o/oo	0.4	0.4	3.0	11.7	11.5	76.8
2001	JUN	6 o/oo	3.2	0.9	12.9	18.8	5.3	75.9
2001	JUN	12 o/oo	3.4	-0.3	12.0	22.5	0.0	79.5
2001	JUN	20 o/oo	6.6	-0.2	14.3	31.9	0.0	69.1

Table 3.6 Determinations of Chlorophyll *a* by Size Fractions (continue)

Year	Month	Sample Location	Chlorophyll <i>a</i> >20 um Fraction (mg/m3)	Chlorophyll <i>a</i> 20><5 um Fraction (mg/m3)	Chlorophyll <i>a</i> 5> um Fraction (mg/m3)	% Chlorophyll <i>a</i> >20 um Size Fraction	% Chlorophyll <i>a</i> 20><5 um Size Fraction	% Chlorophyll <i>a</i> 5> um Size Fraction
2001	JUL	0 o/oo	0.0	0.0	1.4	0.0	2.1	97.9
2001	JUL	6 o/oo	-0.3	0.3	4.6	0.0	5.9	100.0
2001	JUL	12 o/oo	0.7	0.4	5.7	10.4	6.0	83.6
2001	JUL	20 o/oo	0.5	0.5	5.5	7.3	7.3	85.3
2001	AUG	0 o/oo	1.4	0.0	3.2	30.1	0.0	69.9
2001	AUG	6 o/oo	1.4	0.0	6.5	17.2	0.4	82.4
2001	AUG	12 o/oo	5.3	-0.0	6.4	45.5	0.0	54.8
2001	AUG	20 o/oo	4.1	0.0	6.1	40.1	0.0	59.9
2001	SEP	0 o/oo	0.0	0.7	1.8	0.0	27.1	72.9
2001	SEP	6 o/oo	1.1	0.9	4.1	18.3	15.1	66.6
2001	SEP	12 o/oo	2.0	8.6	6.9	11.4	49.1	39.4
2001	SEP	20 o/oo	2.0	0.2	6.8	22.5	2.7	74.9
2001	OCT	0 o/oo	0.7	-0.2	4.5	13.7	0.0	91.1
2001	OCT	6 o/oo	0.8	1.0	4.1	13.1	16.9	70.0
2001	OCT	12 o/oo	1.7	0.8	4.2	25.8	12.0	62.2
2001	OCT	20 o/oo	2.5	0.7	8.6	21.4	6.0	72.5
2001	NOV	0 o/oo	0.4	0.0	1.6	20.4	0.5	79.1
2001	NOV	6 o/oo	22.1	3.0	5.9	71.3	9.7	19.0
2001	NOV	12 o/oo	15.7	3.0	5.9	63.9	12.1	24.0
2001	NOV	20 o/oo	5.9	0.1	3.2	64.4	0.9	34.7
2001	DEC	0 o/oo	0.2	0.7	2.7	5.5	19.6	74.9
2001	DEC	6 o/oo	0.5	7.3	17.7	2.0	28.6	69.4
2001	DEC	12 o/oo	3.4	0.0	15.9	17.6	0.0	82.4
2001	DEC	20 o/oo	2.3	0.7	8.2	20.9	6.1	73.0

Table 3.9 Mean Near Surface Values for Key Physical, Chemical and Biological Measurements by Isohaline

Isohaline	TEMP	COLOR	N23	OP	NP	SI	EXC	CHLA	P3
Summary of data from current year – 2001									
0 o/oo Salinity	24.5	143	0.66	0.63	1.2	2.62	1.8	2.8	na
6 o/oo Salinity	25.1	123	0.2	0.476	0.6	2.33	1.98	22.3	na
12 o/oo Salinity	24.7	104	0.079	0.342	0.5	2.02	1.63	16.1	na
20 o/oo Salinity	24.5	76	0.03	0.21	0.5	1.64	1.36	11.3	na
Summary of data from preceding period 1983-2000									
0 o/oo Salinity	24.9	138	0.49	0.737	0.8	2.57	3.07	9.6	8.82
6 o/oo Salinity	25.2	112	0.213	0.528	0.5	2.18	2.76	23.6	20.9
12 o/oo Salinity	25.0	82	0.096	0.368	0.4	1.68	2.24	23.3	21.87
20 o/oo Salinity	24.7	46	0.034	0.212	0.4	0.98	1.58	12.7	17.24

Temp = Temperature °C

Color = Color Co_Pt Units mg/L

N23 = Nitrate/Nitrite Nitrogen mg/L

OP = Ortho-phosphorus mg/L

NP = Atomic Inorganic Nitrogen to Phosphorus Ratio

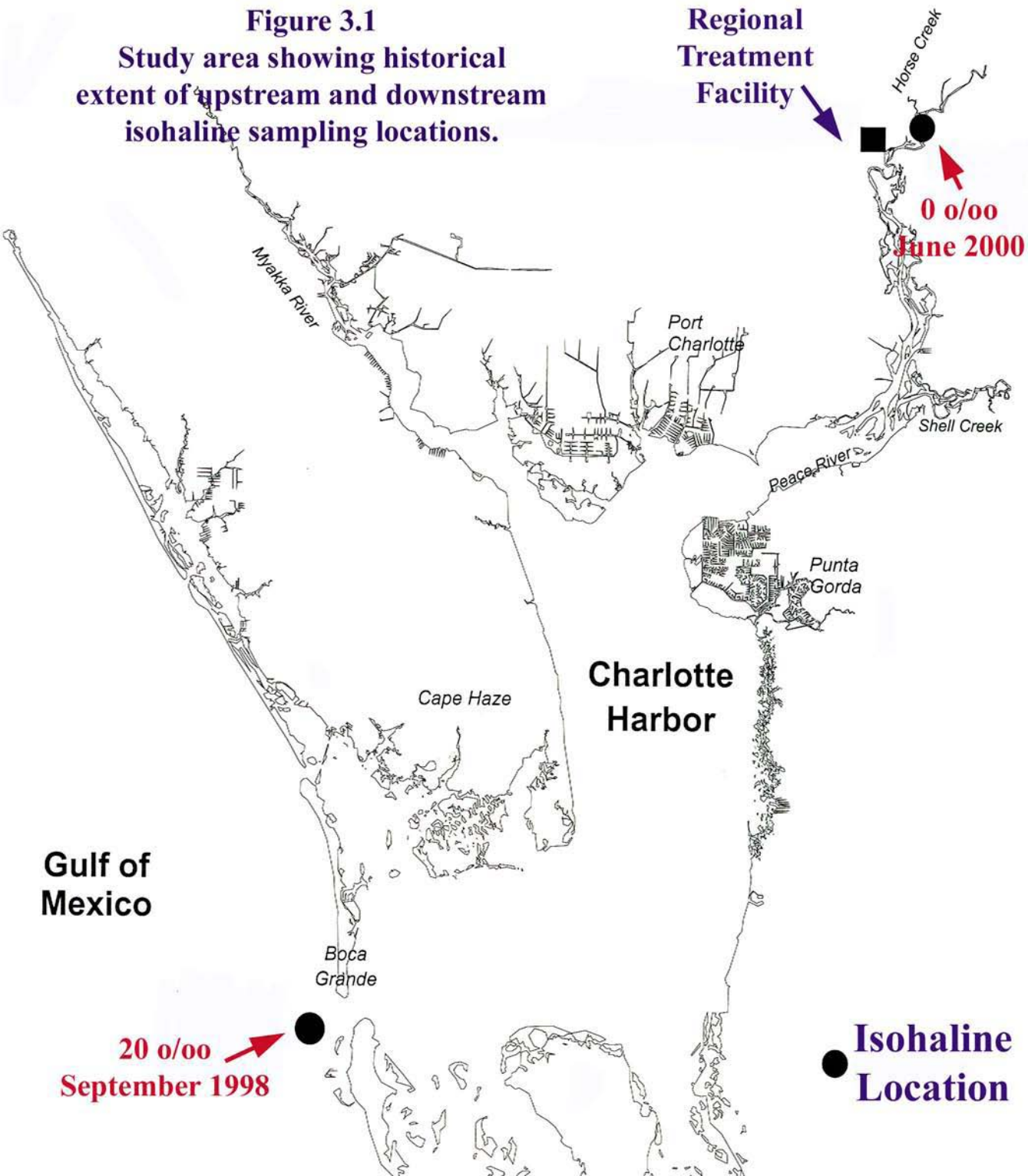
SI = Reactive Silica mg/L

EXC = Extinction Coefficient

CHLA = Chlorophyll *a* ug/L

P3 = Rate of Carbon Uptake mg/m³/Einstein

Figure 3.1
Study area showing historical
extent of upstream and downstream
isohaline sampling locations.



**Regional
Treatment
Facility**

**0 o/oo
June 2000**

**Gulf of
Mexico**

**Charlotte
Harbor**

20 o/oo
September 1998

**Isohaline
Location**

Moving Station Locations (2001)

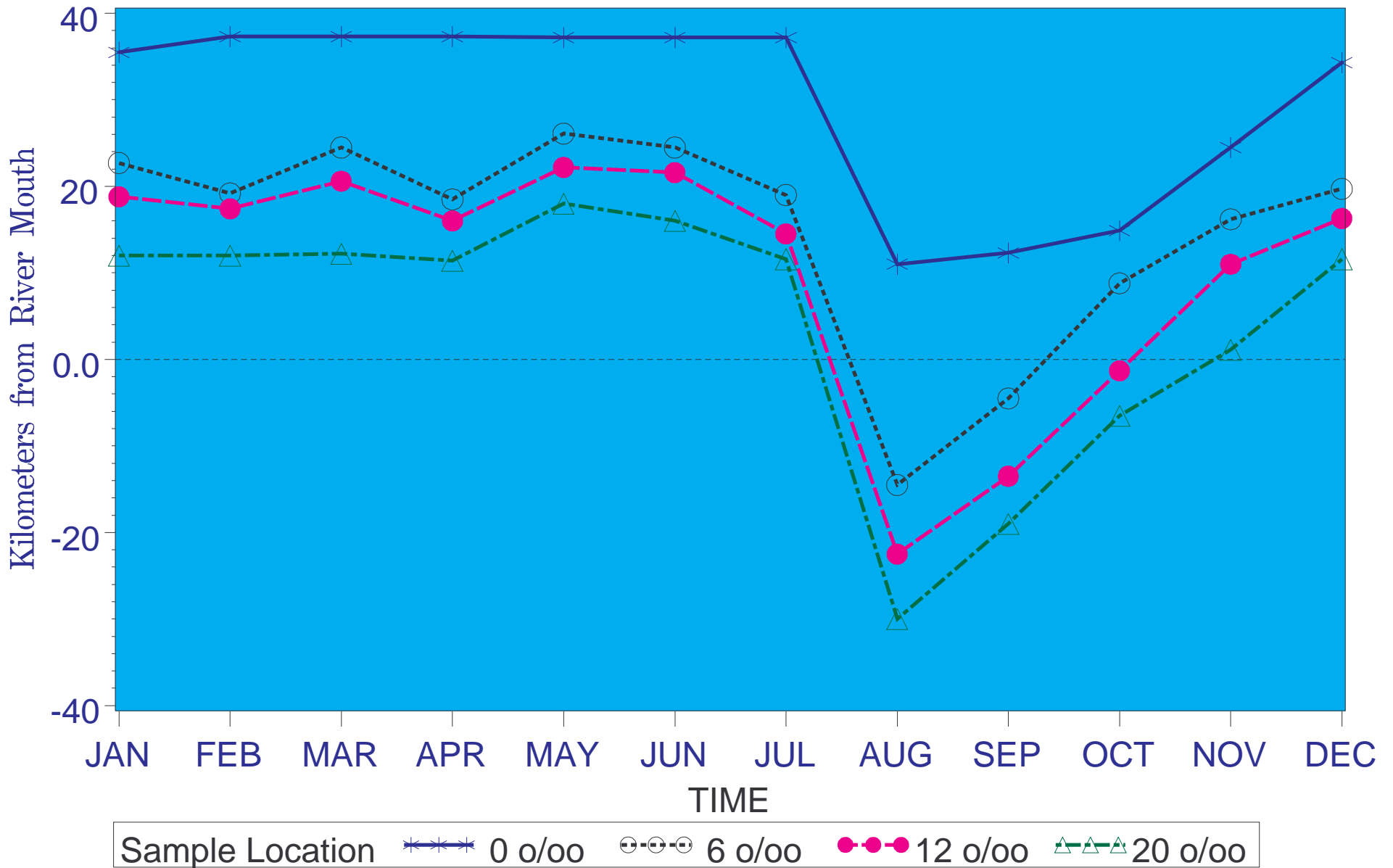


Figure 3.2 Relative distance (km) from the mouth of the river (2001).

Moving Station Locations (1983-2001)

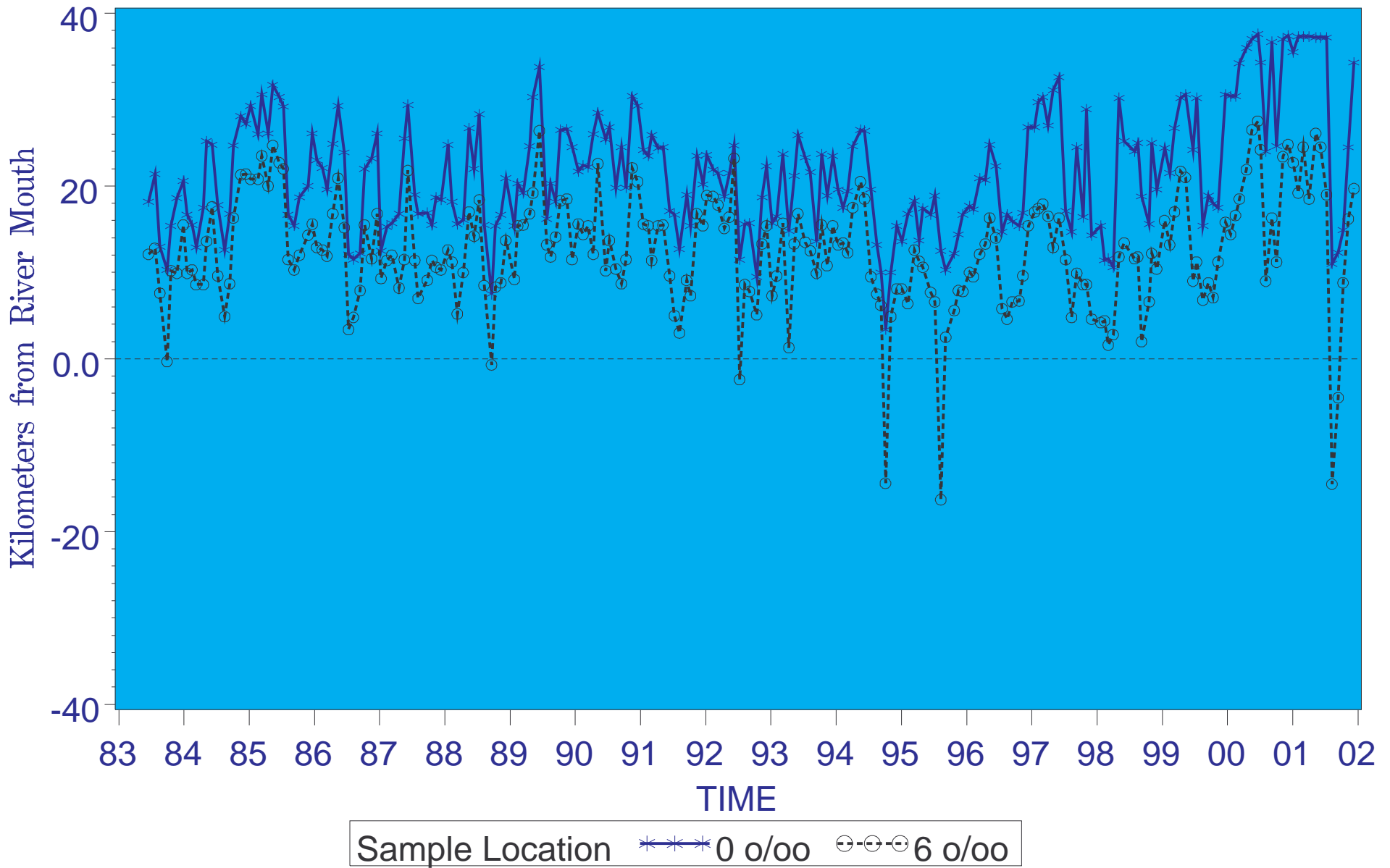


Figure 3.3 Relative distance (km) from the mouth of the river of 0 and 6 ppt salinity sampling zones (1983-2001).

Moving Station Locations (1983-2001)

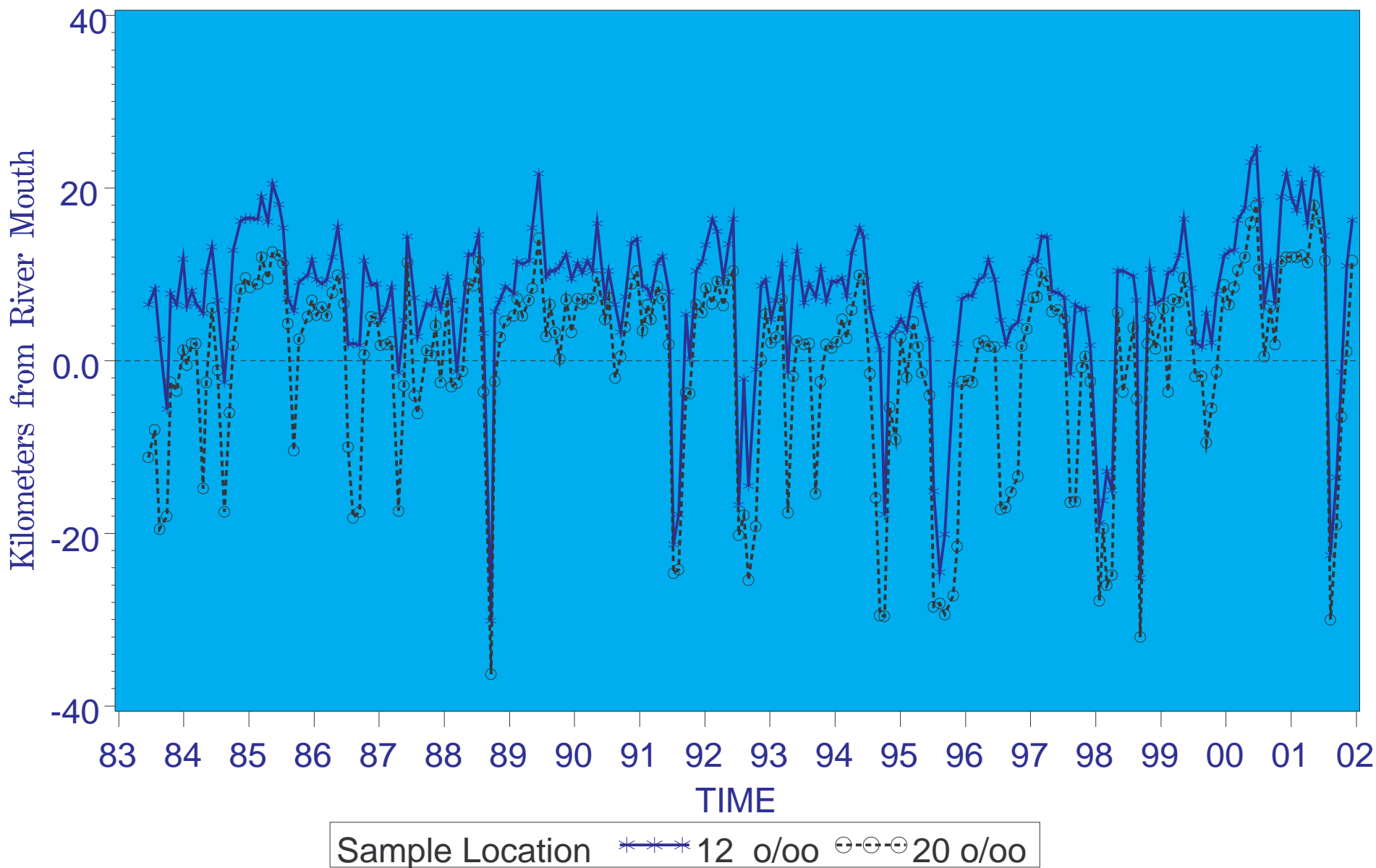


Figure 3.4 Relative distance (km) from the Mouth of the River of 12 and 20 ppt salinity sampling zones (1983-2001).

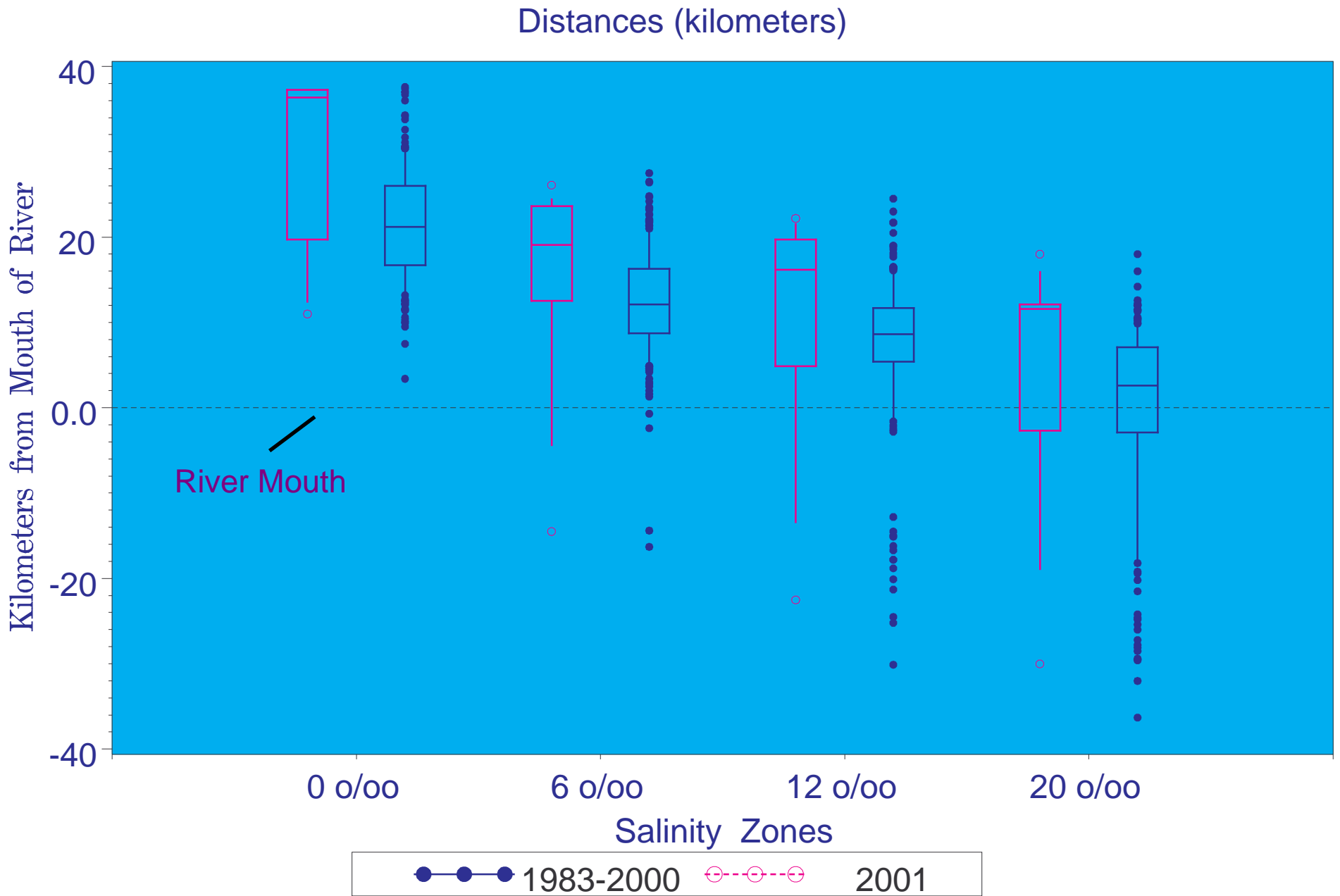


Figure 3.5 Box & Whiskers of relative distance (km) from the mouth of the river.

Temperature

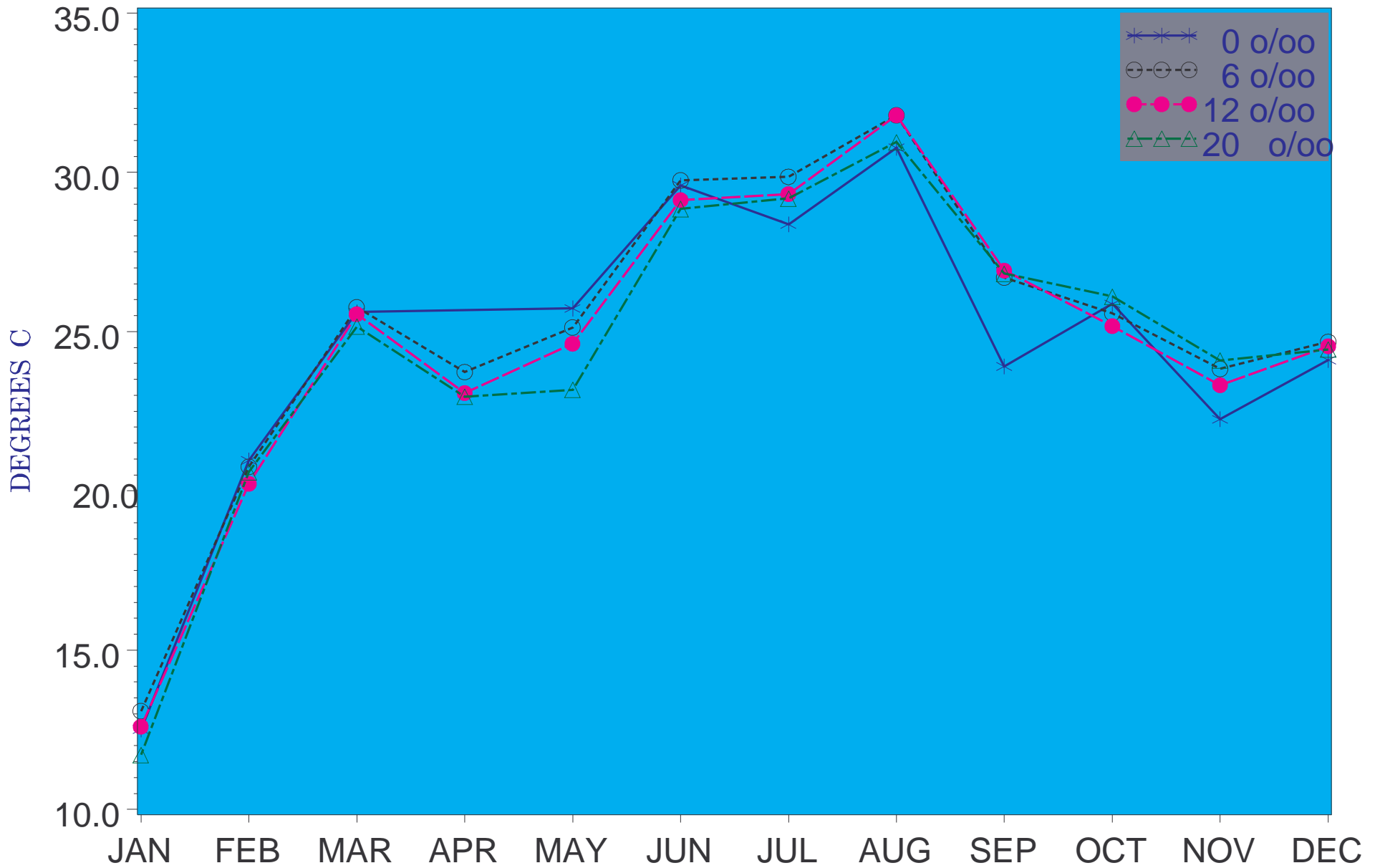


Figure 3.6 2001 Temperature at salinity sampling zones.

Color

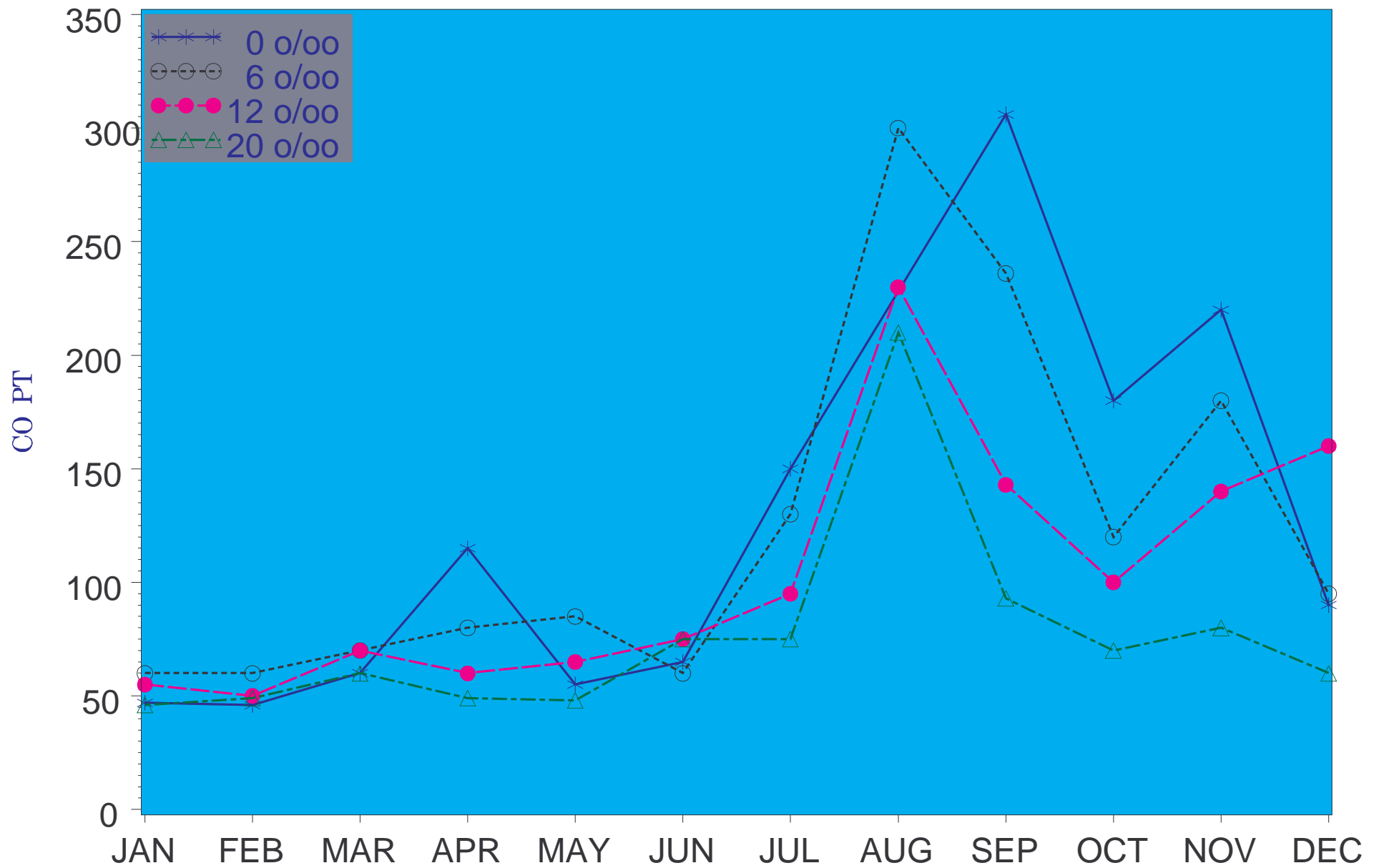


Figure 3.7 2001 Color at salinity sampling zones.

Extinction Coefficient

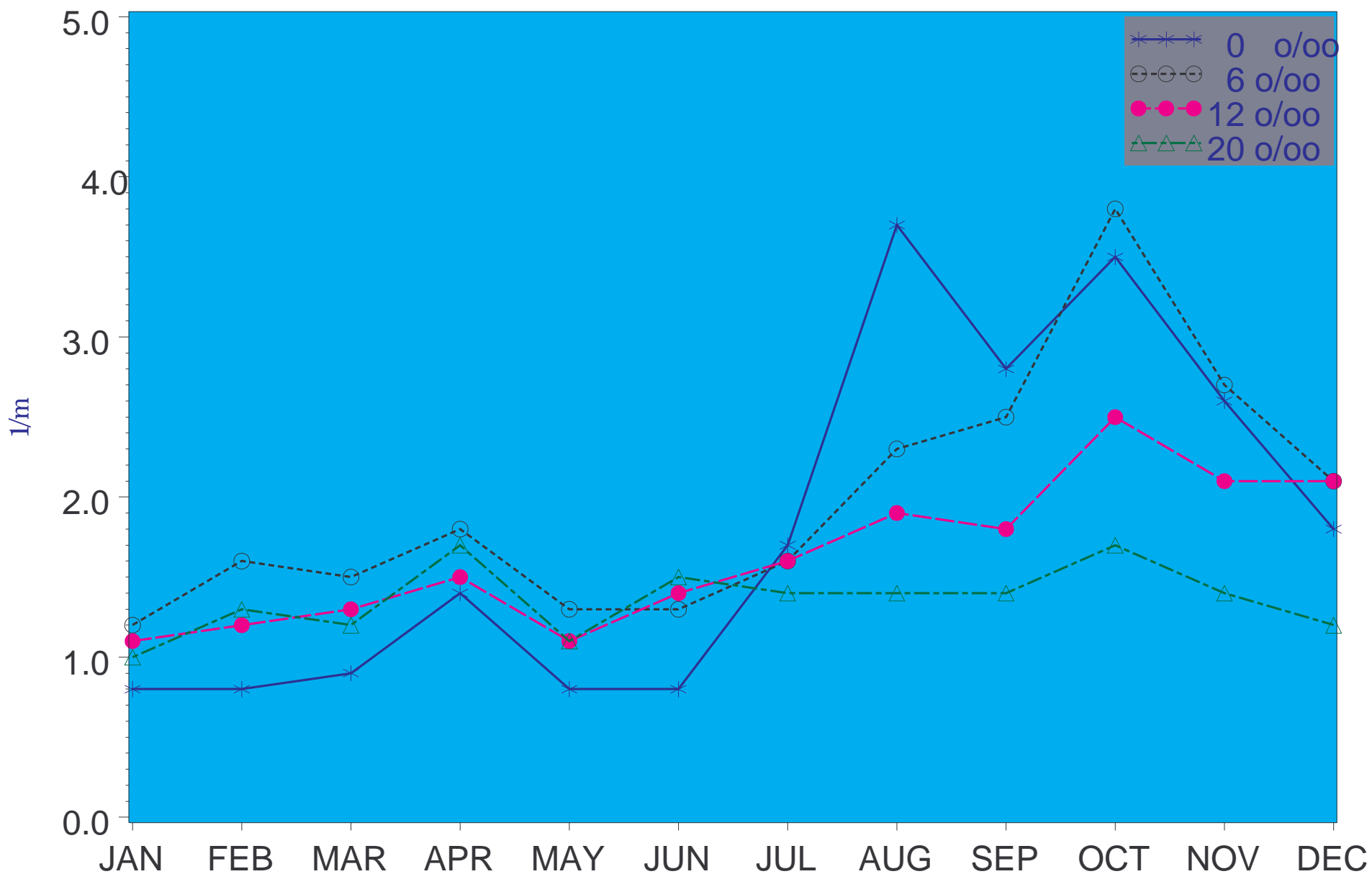


Figure 3.8 2001 Extinction Coefficient at salinity sampling zones.

NO₂-NO₃

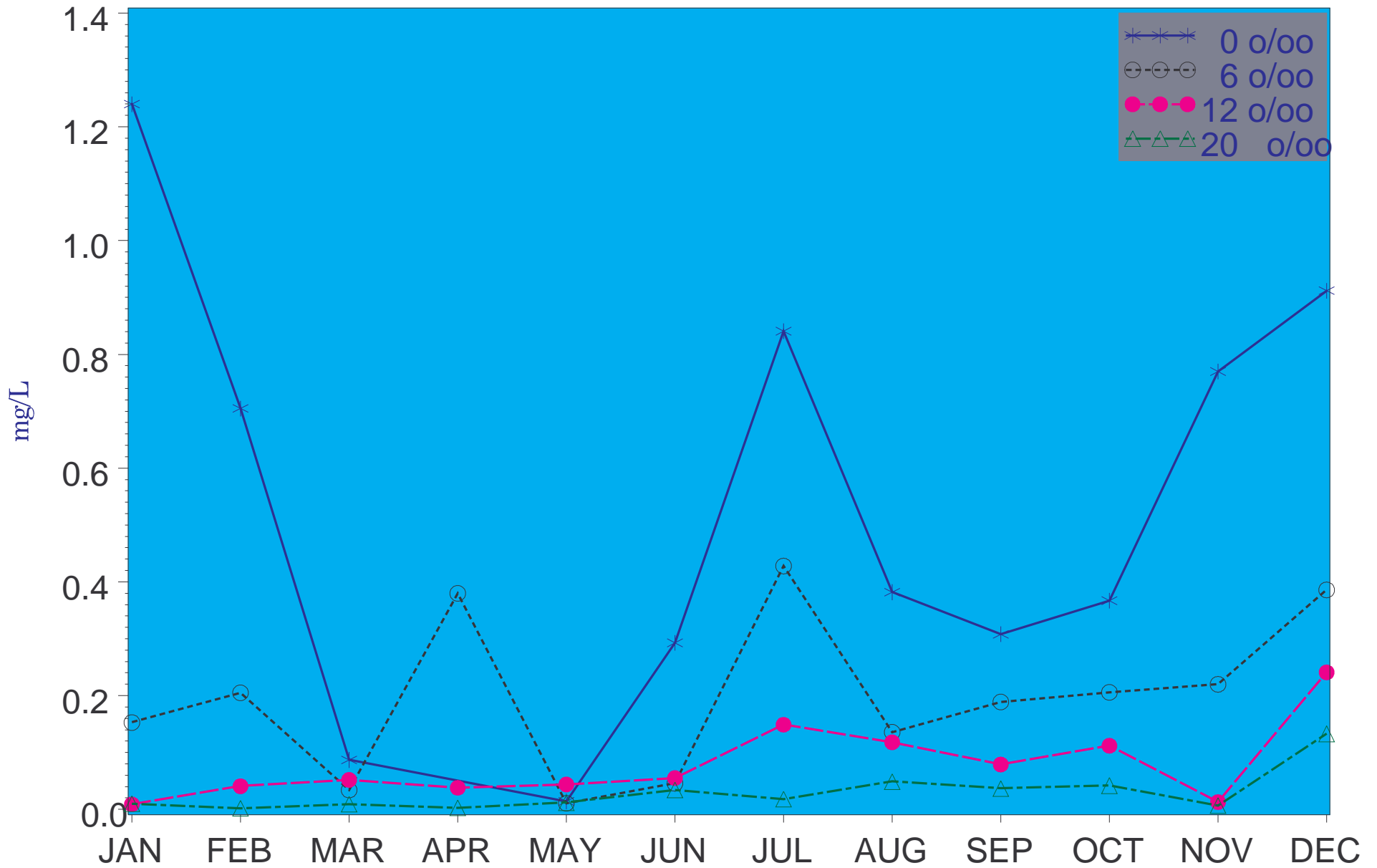


Figure 3.9 2001 Nitrite/Nitrate at salinity sampling zones.

Ortho-Phosphorus

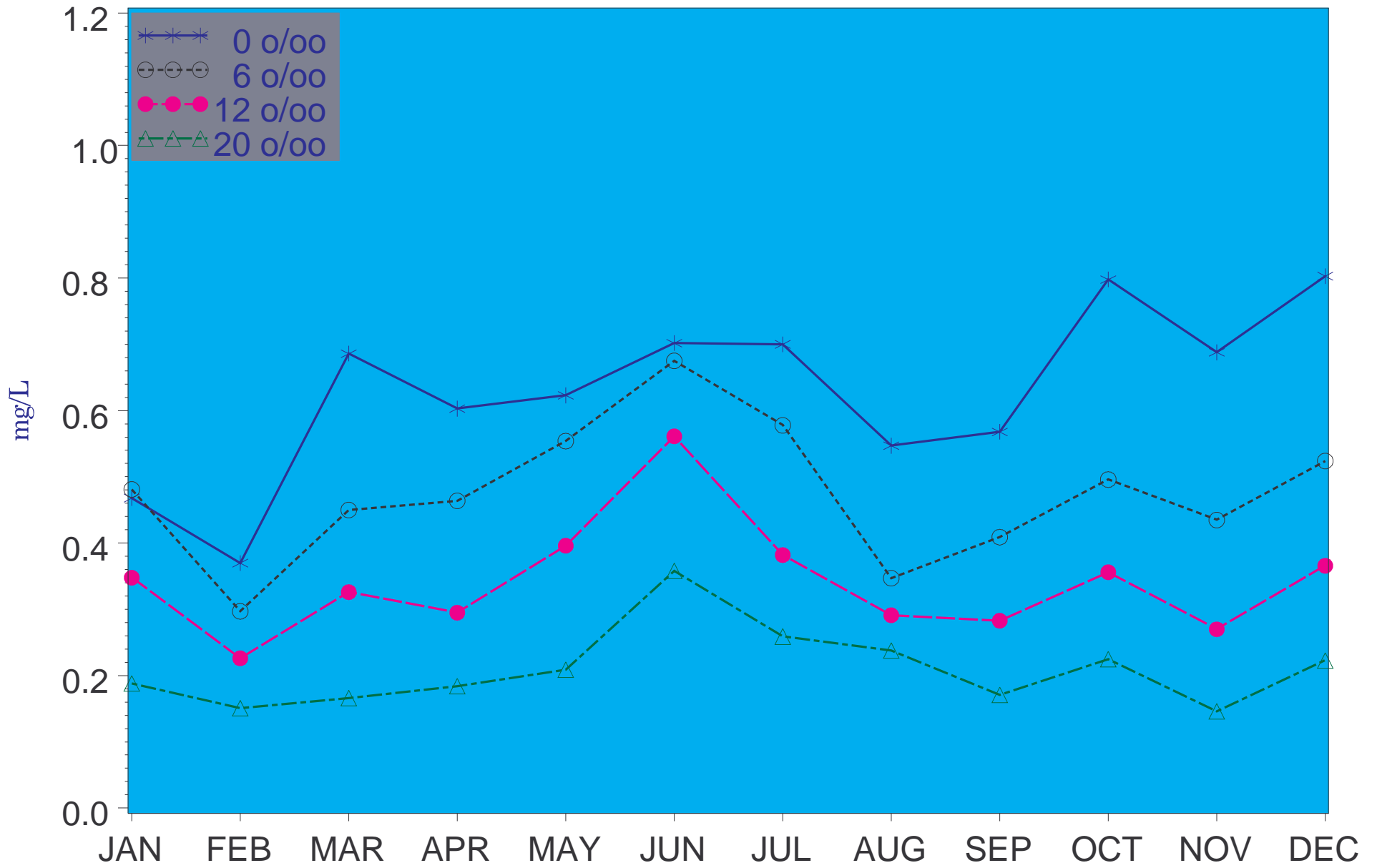


Figure 3.10 2001 Ortho-phosphorus at salinity sampling zones.

Atomic Nitrogen/Phosphorus Ratio

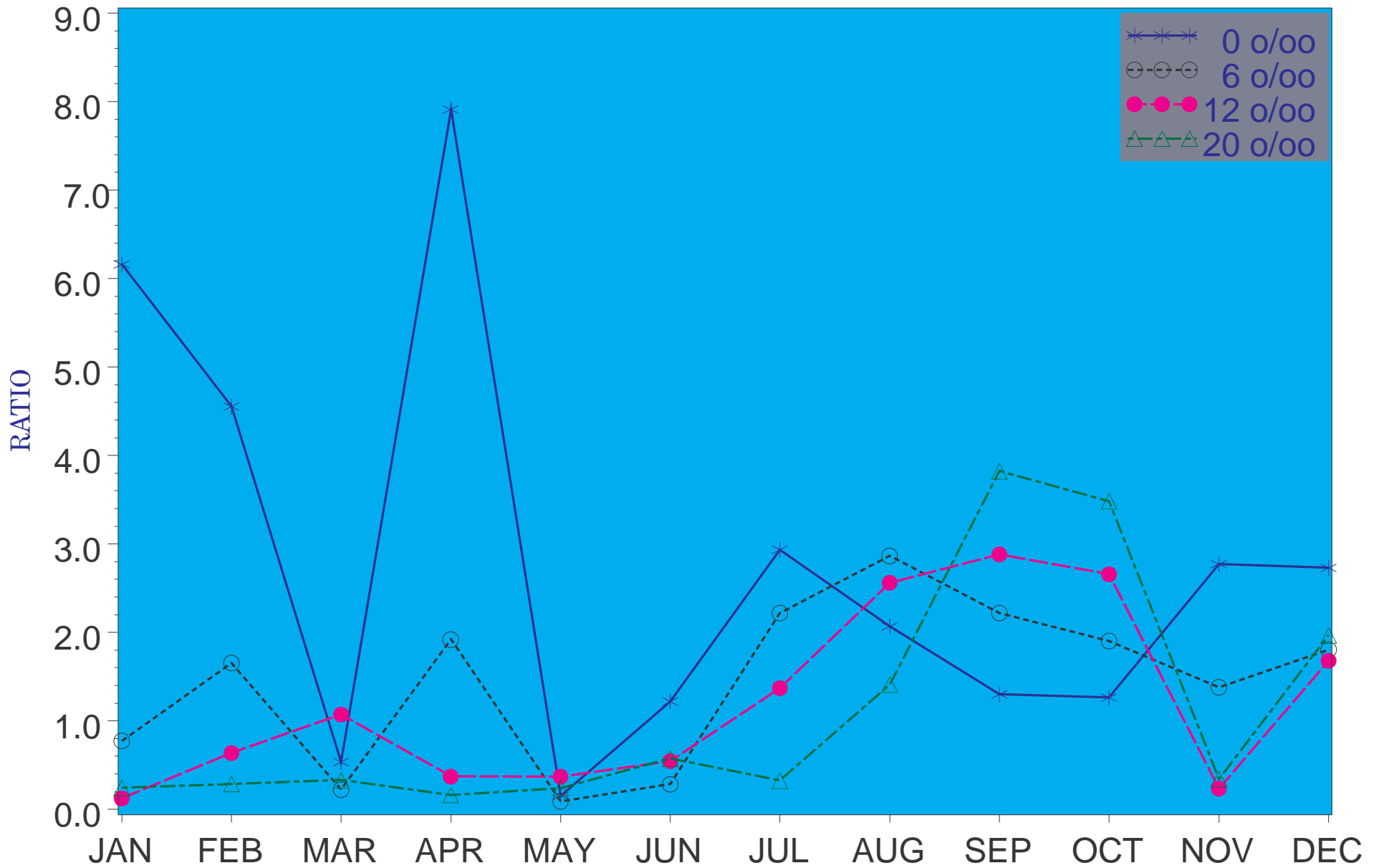


Figure 3.11 2001 Atomic N/P Ratio at salinity sampling zones.

Silica

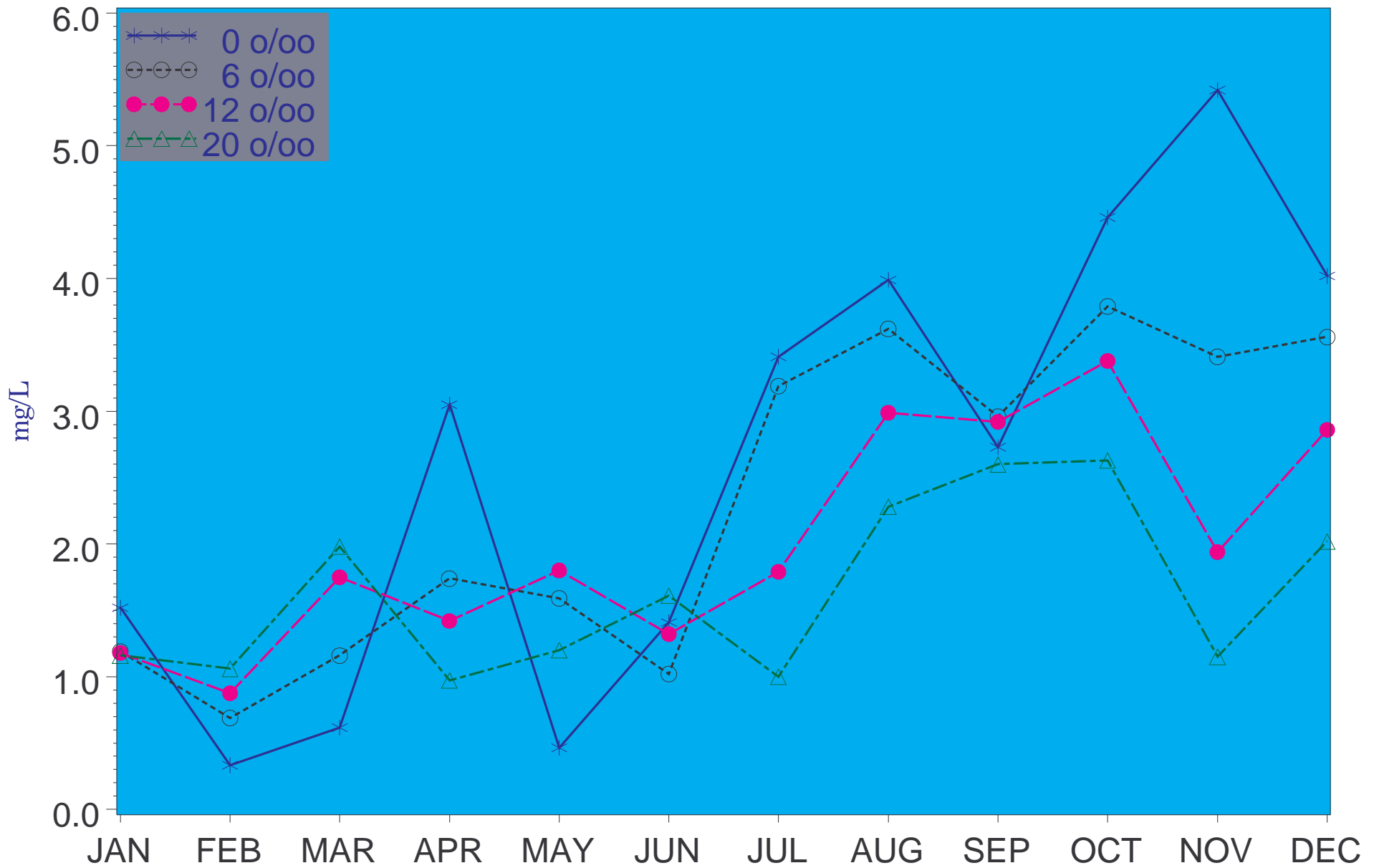


Figure 3.12 2001 Silica at salinity sampling zones.

Chlorophyll a

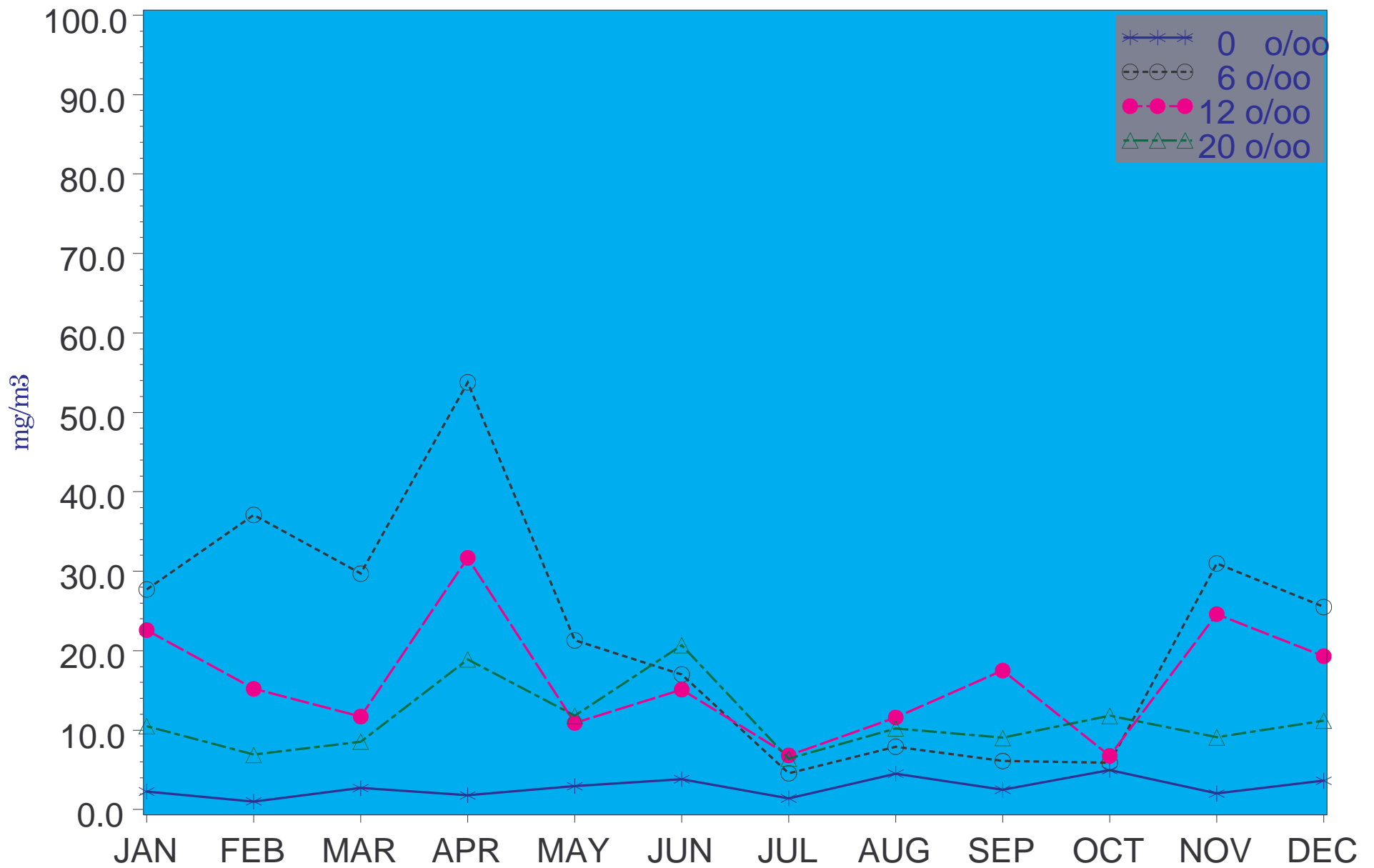


Figure 3.13 2001 Chlorophyll a (mg/m³) at salinity sampling zones.

Chlorophyll a (mg/m³) - 2001

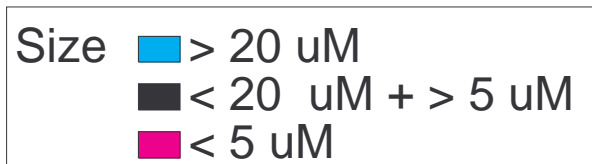
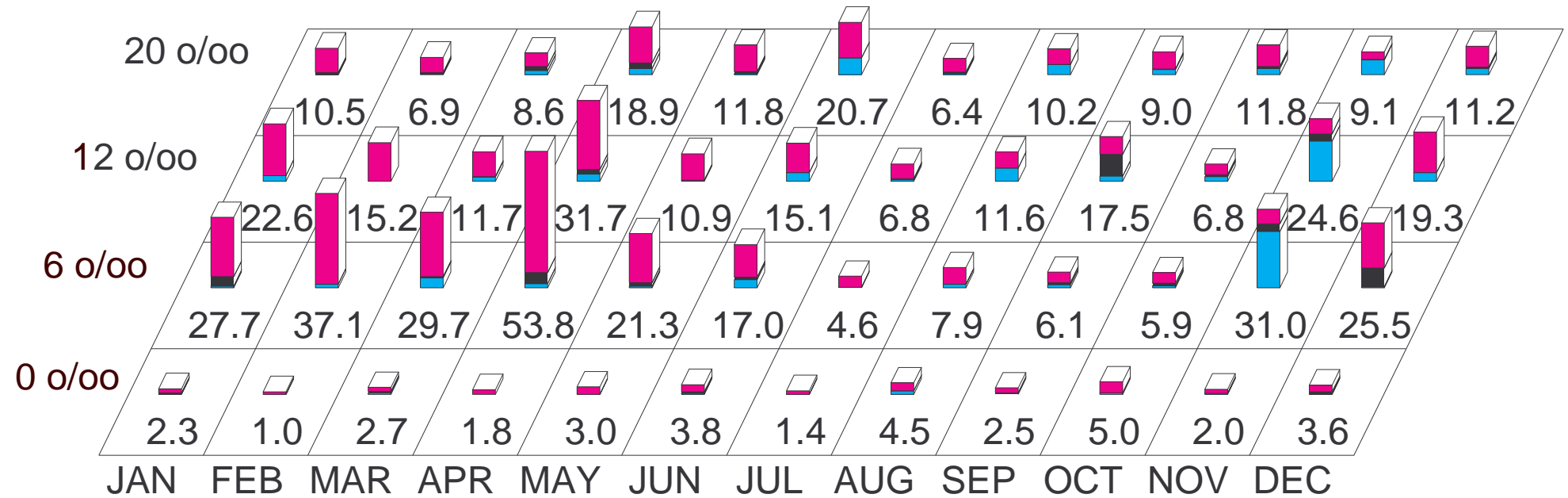


Figure 3.14 Chlorophyll a (mg/m³) Among Size Fractions

Percent Chlorophyll a Among Size Fractions - 2001

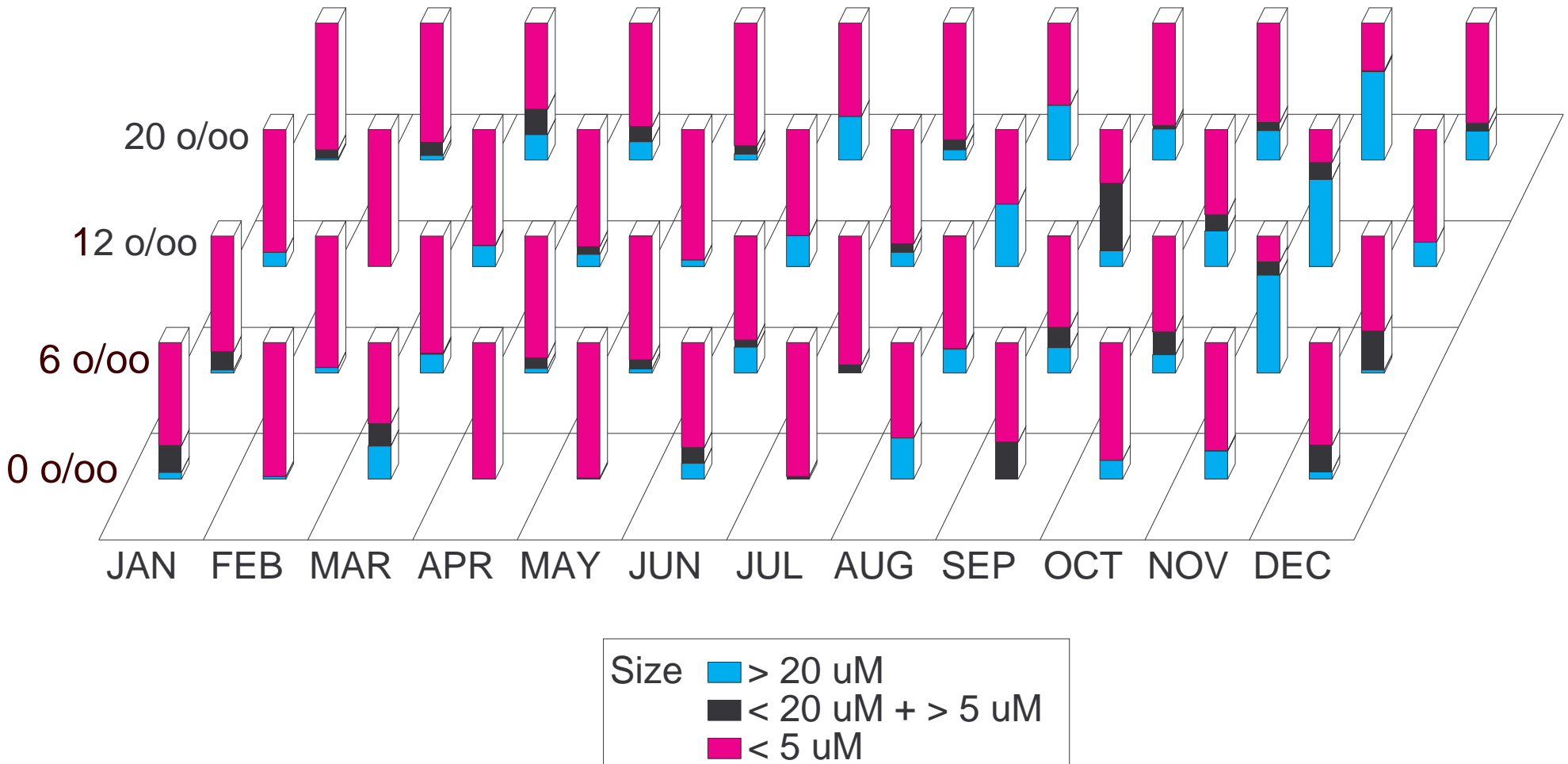


Figure 3.15 Percent Chlorophyll a Among Size Fractions

Temperature

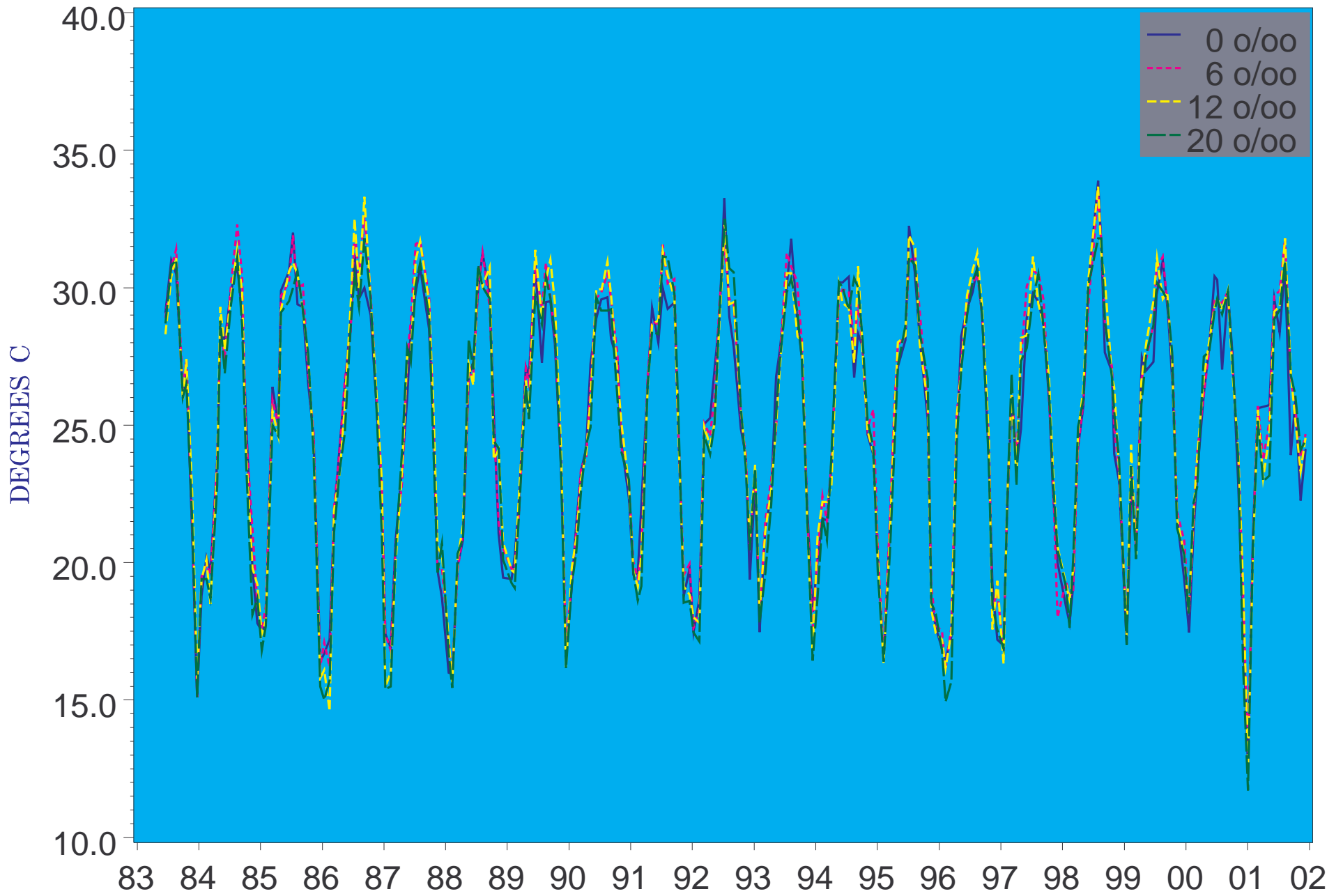


Figure 3.16 1983-2001 Temperature at salinity sampling zones.

Color

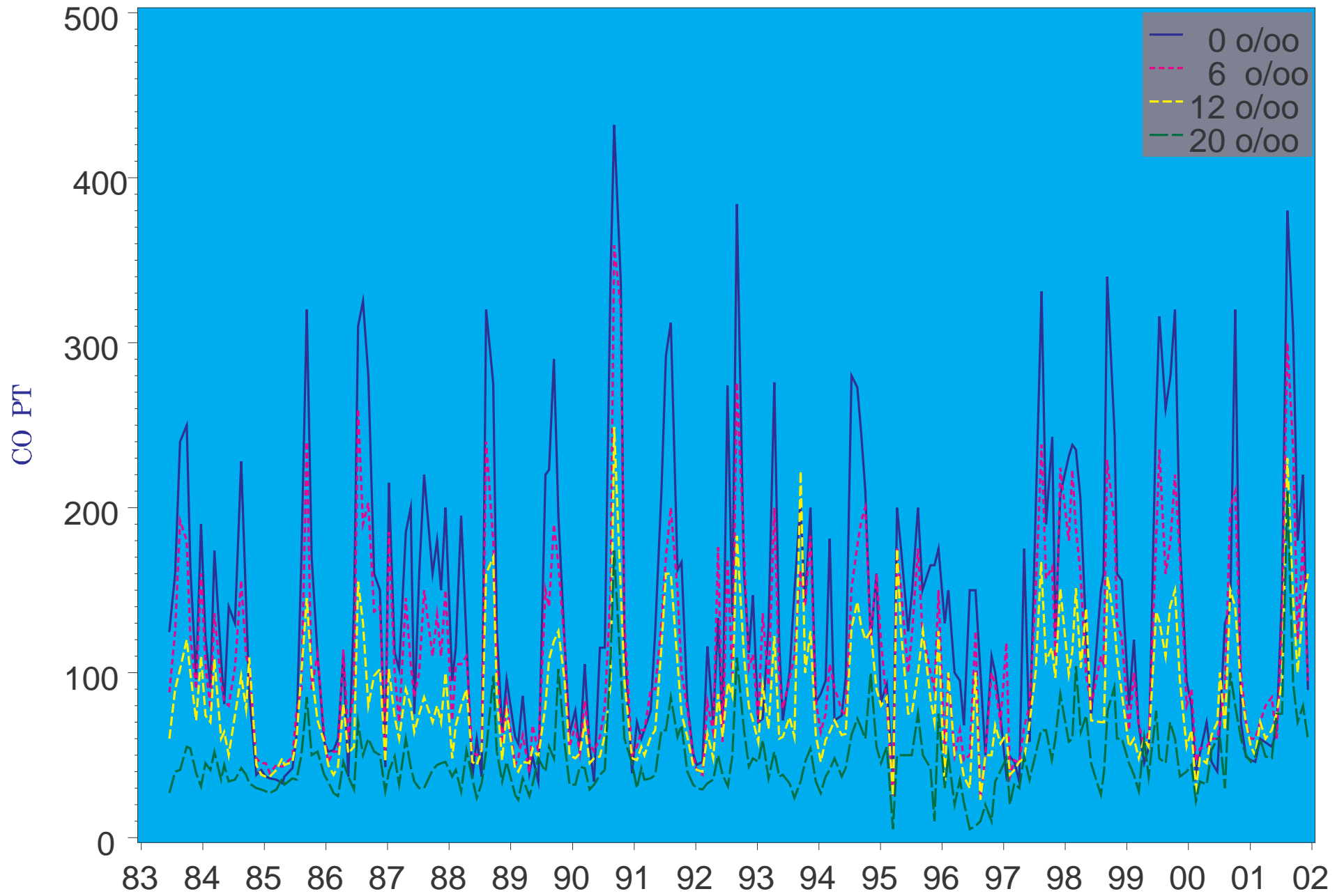


Figure 3.17 1983-2001 Color at salinity sampling zones.

Extinction Coefficient

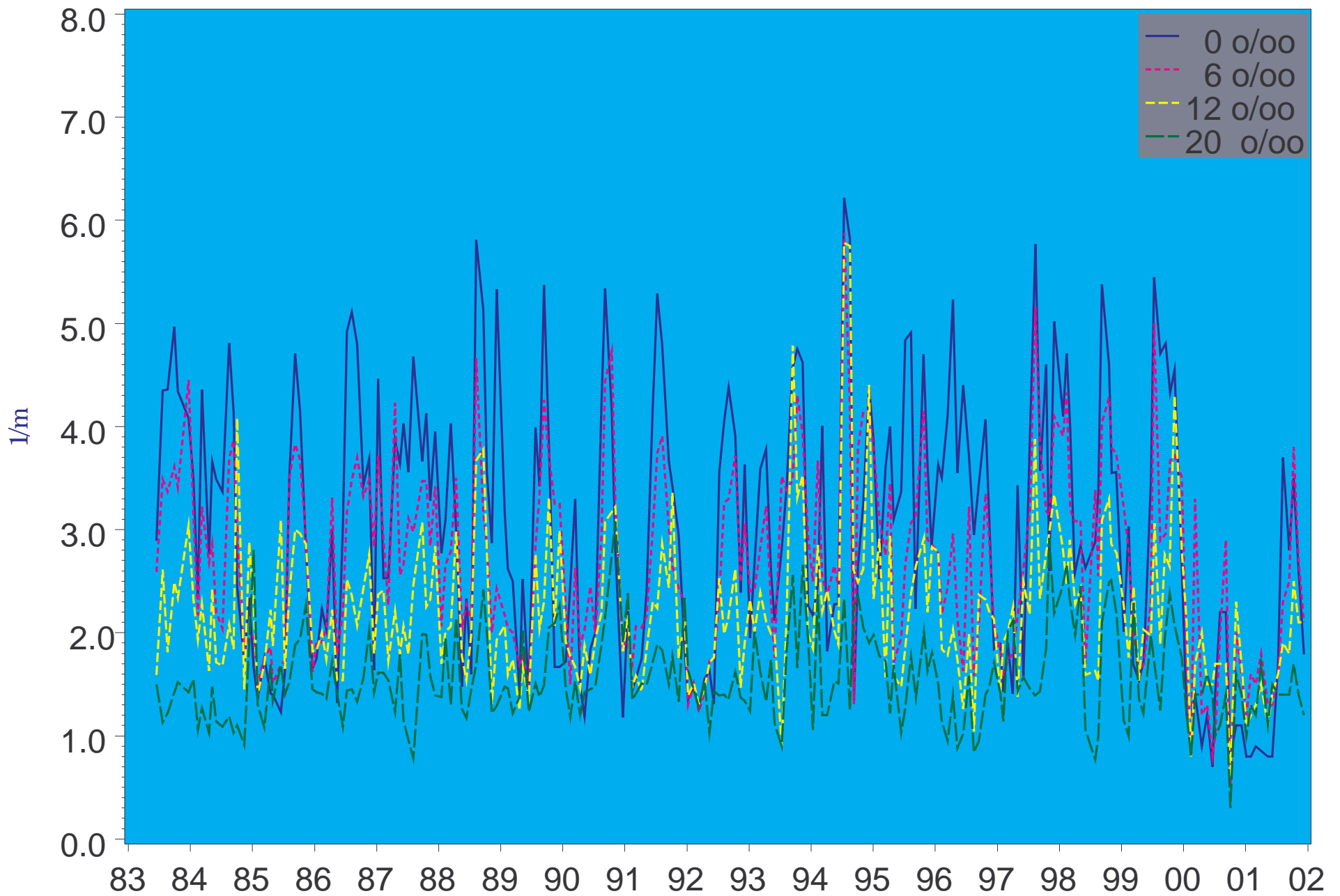


Figure 3.18 1983-2001 Extinction Coefficient at salinity sampling zones.

NO₂-NO₃

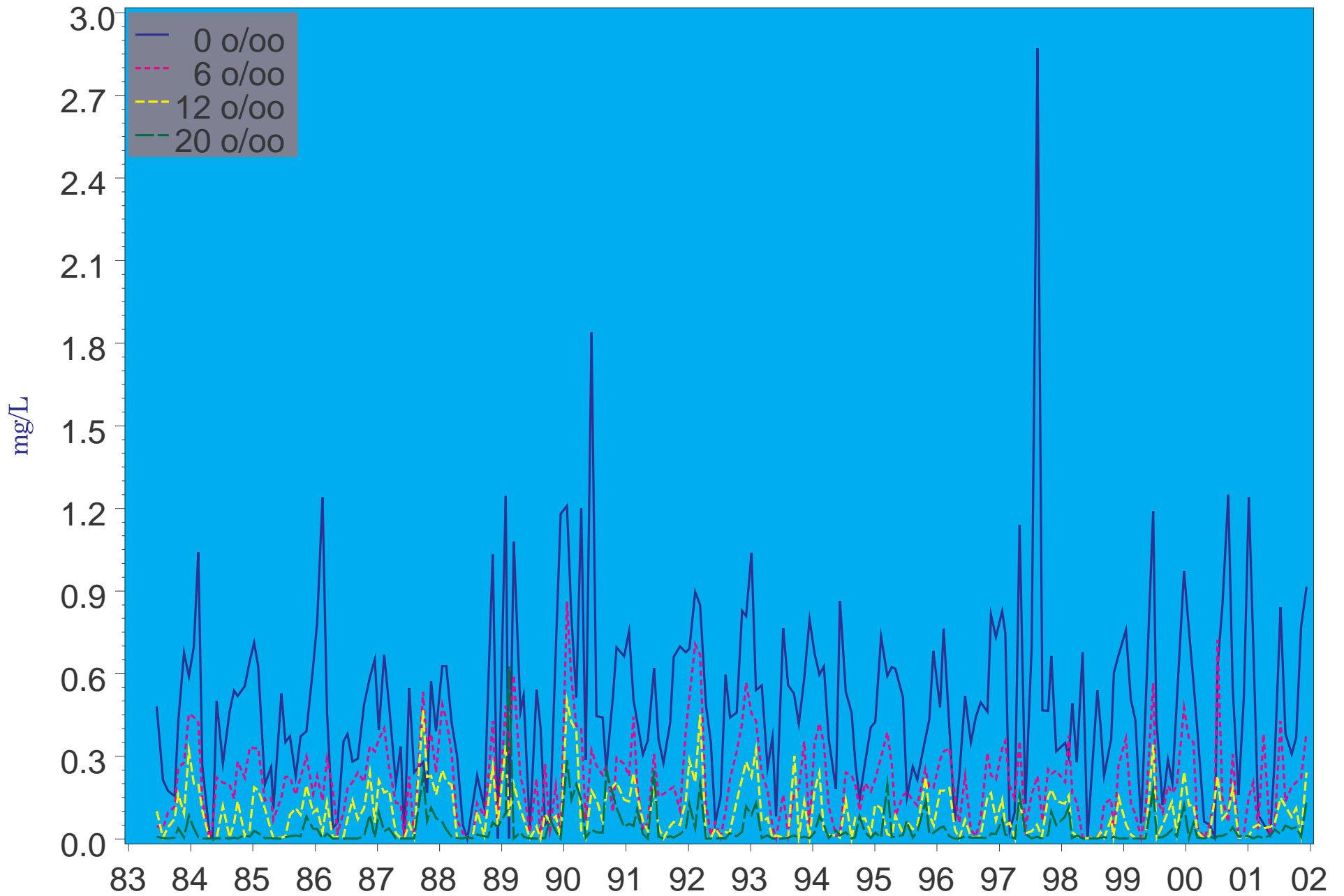


Figure 3.19 1983-2001 Nitrate/Nitrite at salinity sampling zones.

Ortho-Phosphorus

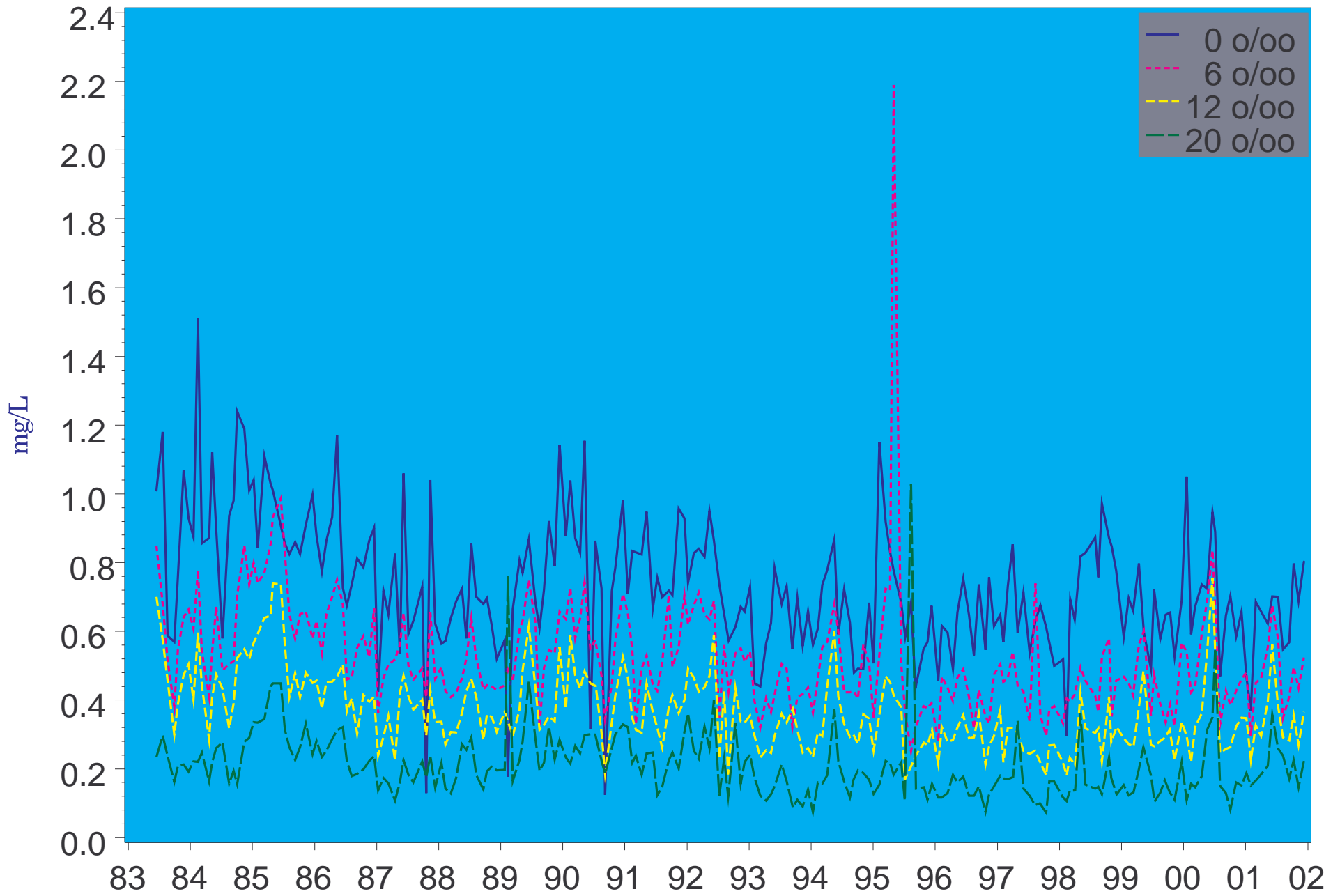


Figure 3.20 1983-2001 Ortho-Phosphorus at salinity sampling zones.

Atomic Nitrogen/Phosphorus Ratio

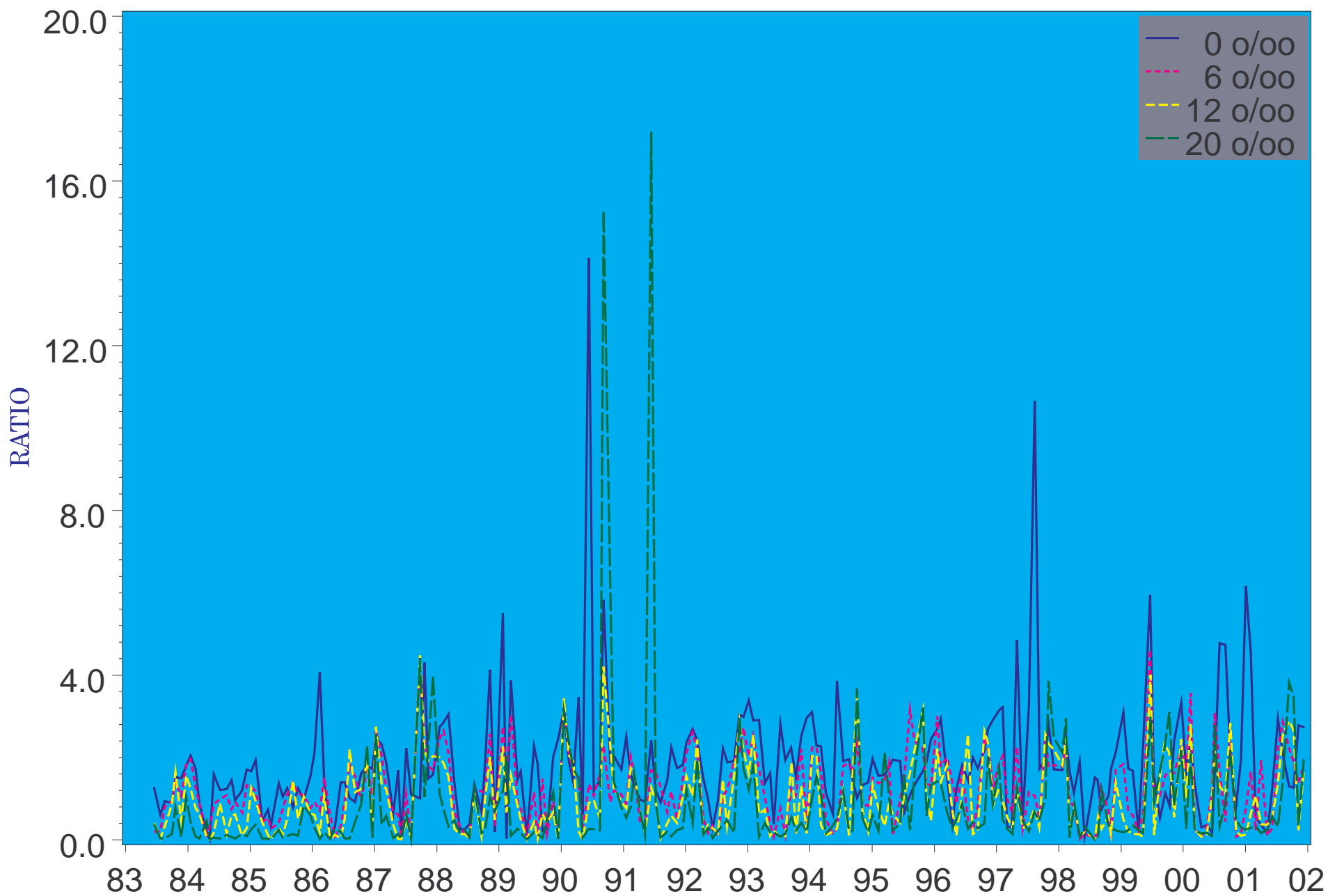


Figure 3.21 1983-2001 Atomic Nitrogen/Phosphorus Ratio at salinity sampling zones.

Silica

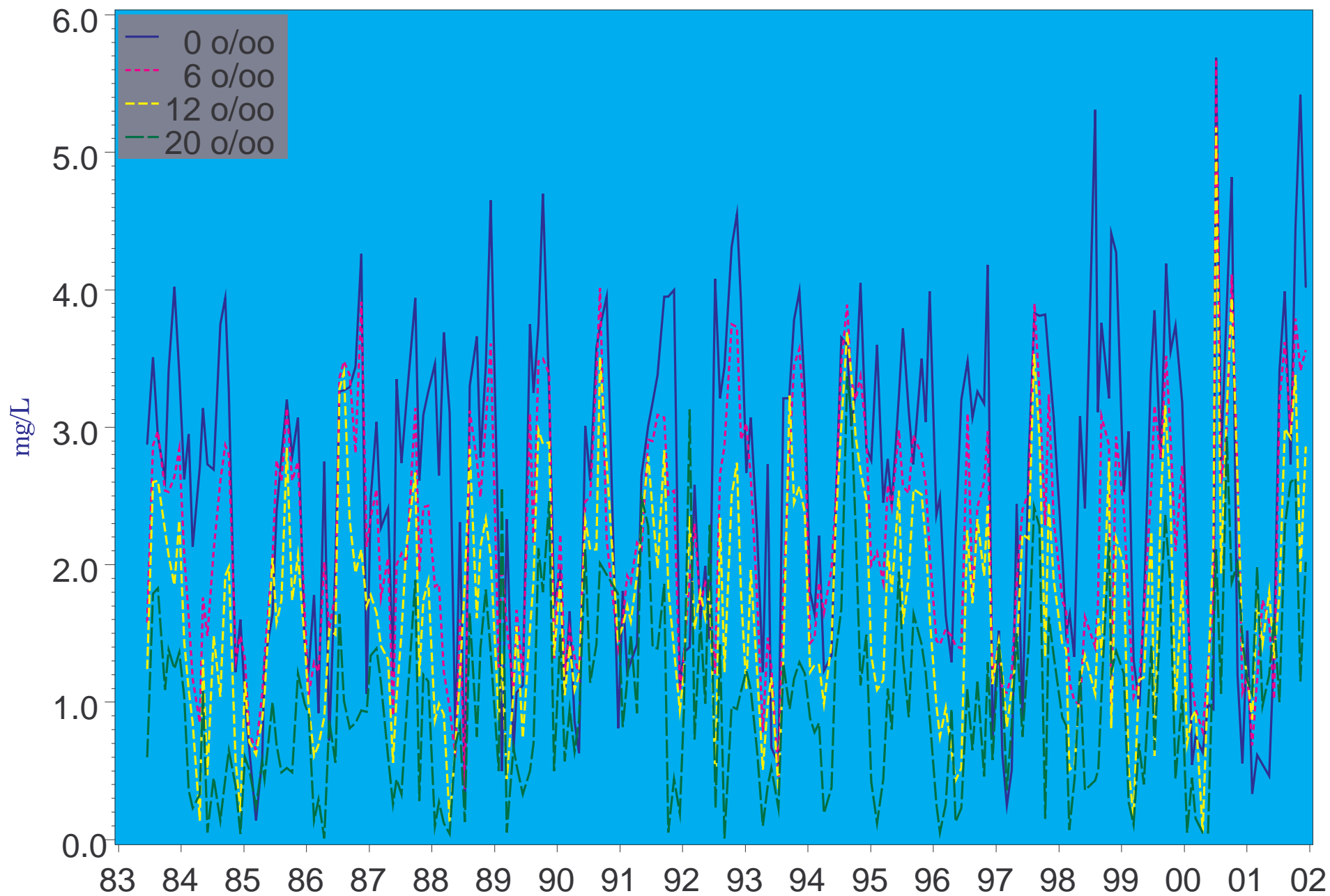


Figure 3.22 1983-2001 Silica at salinity sampling zones.

Chlorophyll a

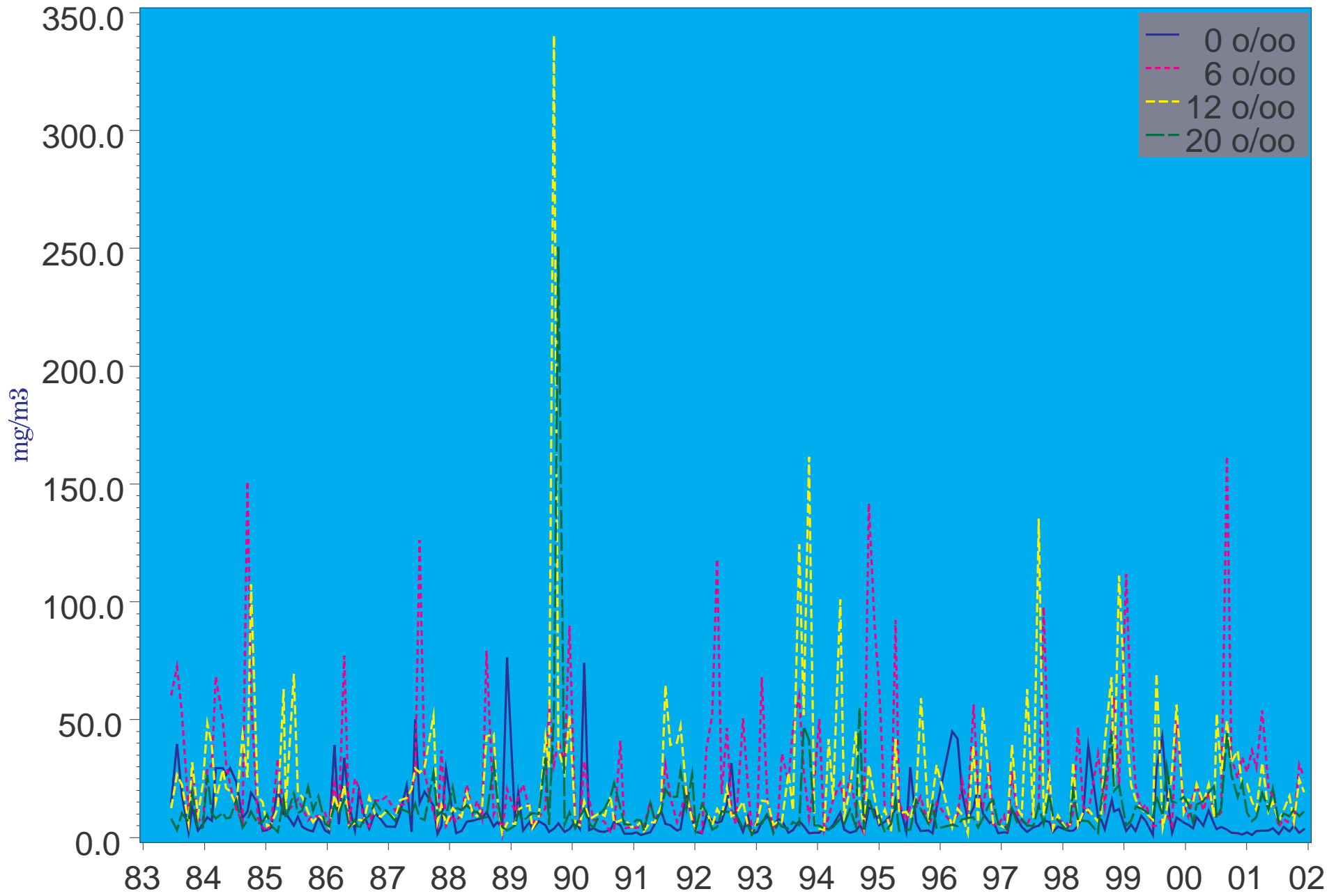


Figure 3.23 1983-2001 Chlorophyll a (mg/m³) at salinity sampling zones.

Temperature

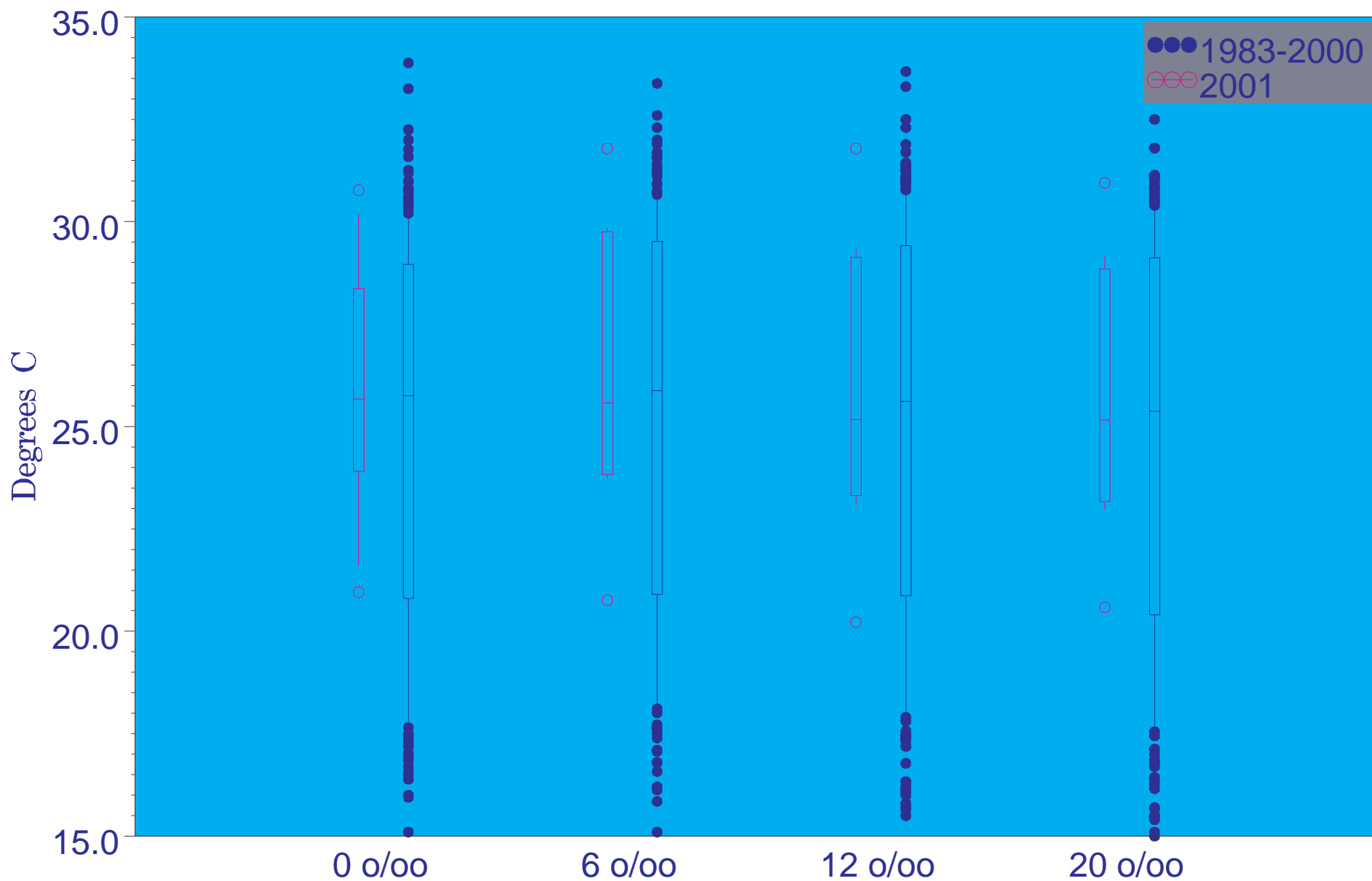


Figure 3.24 Box and Whisker Plots of Temperature at salinity sampling zones (2001) & (1983-2000).

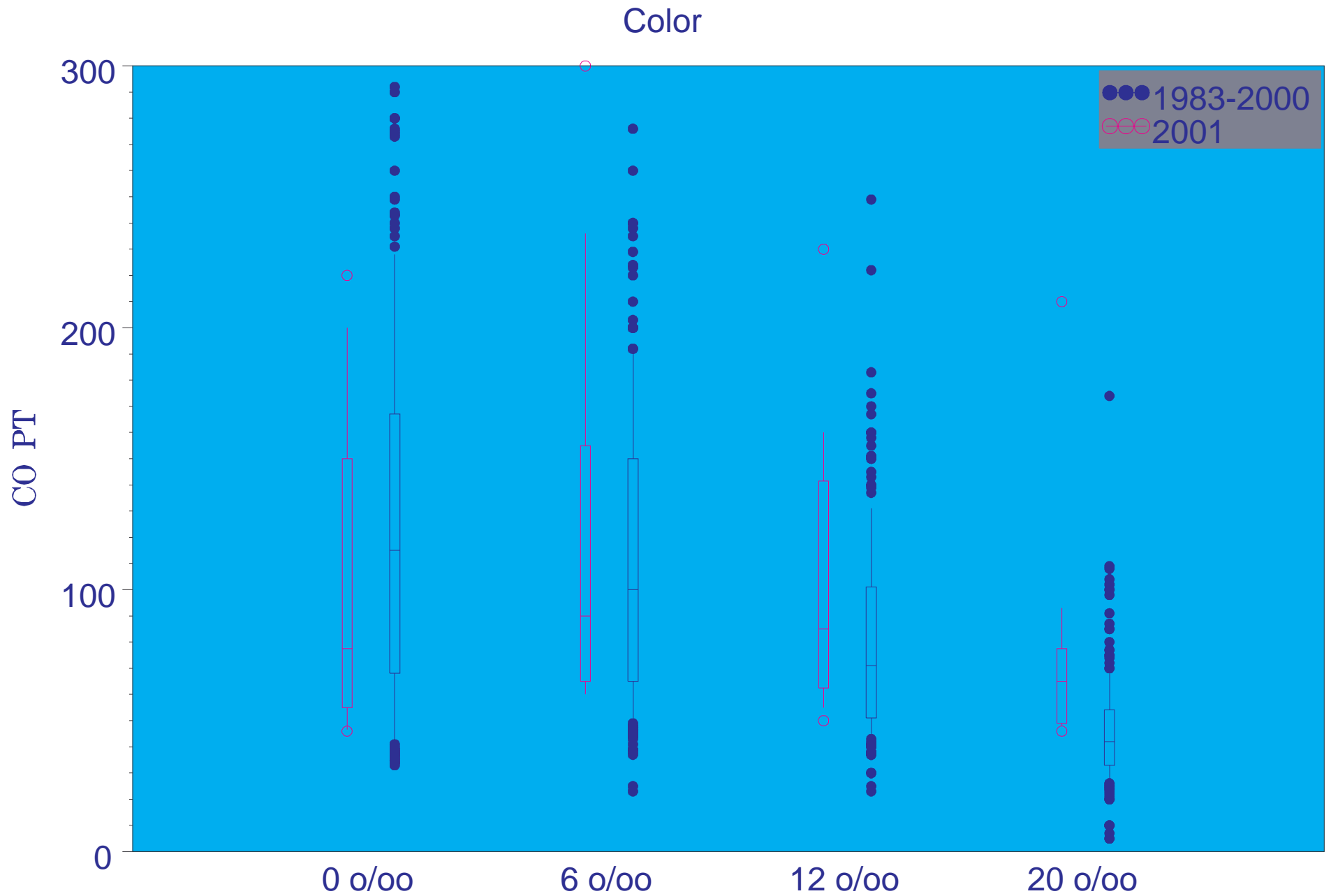


Figure 3.25 Box and Whisker Plots of Color at salinity sampling zones (2001) & (1983-2000).

Extinction Coefficient

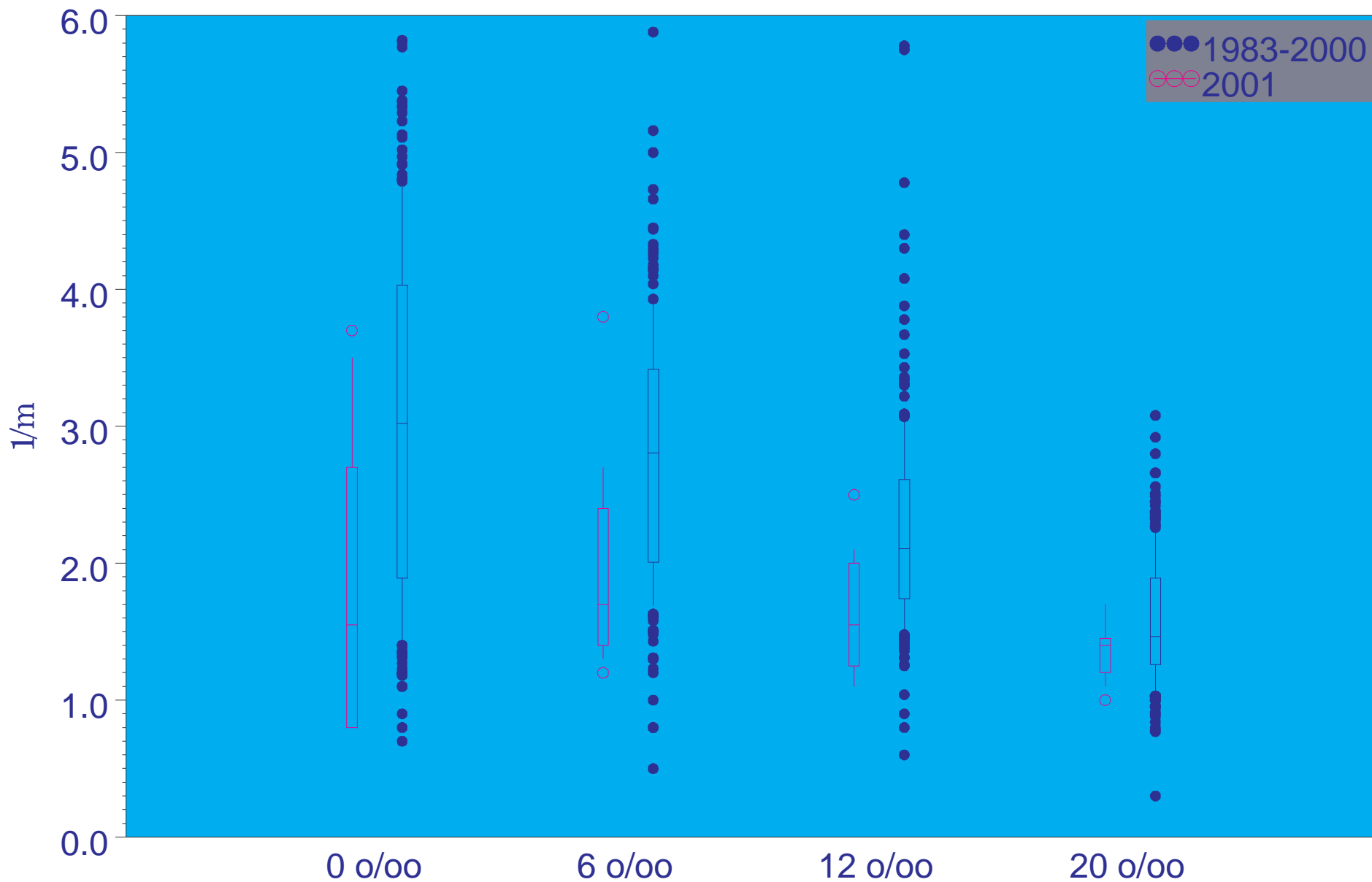


Figure 3.26 Box and Whisker Plots of Extinction Coefficient at salinity sampling zones (2001) & (1983-2000).

NO₂-NO₃

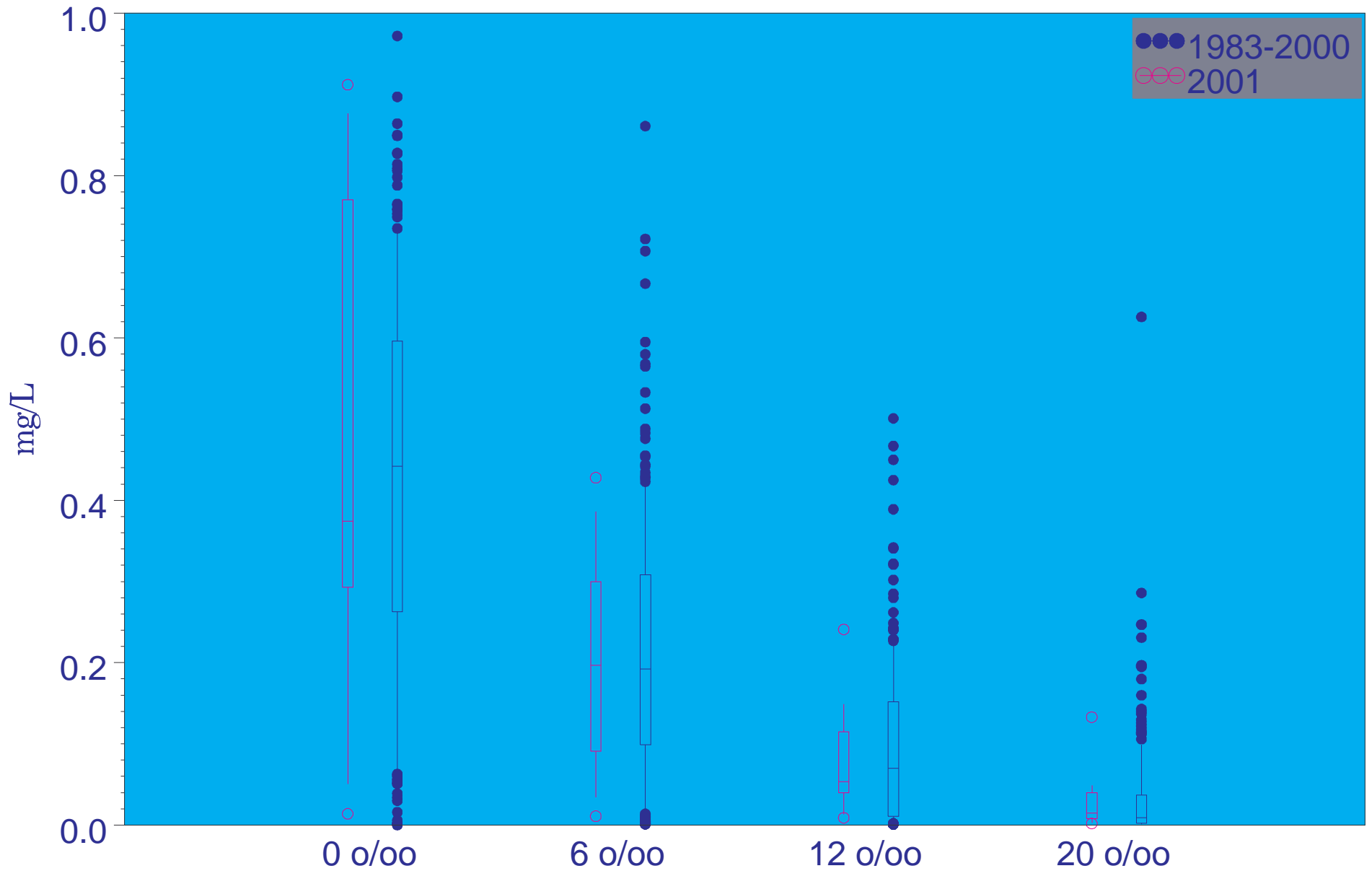


Figure 3.27 Box and Whisker Plots of Nitrite/Nitrate at salinity sampling zones (2001) & (1983-2000).

NO₂-NO₃

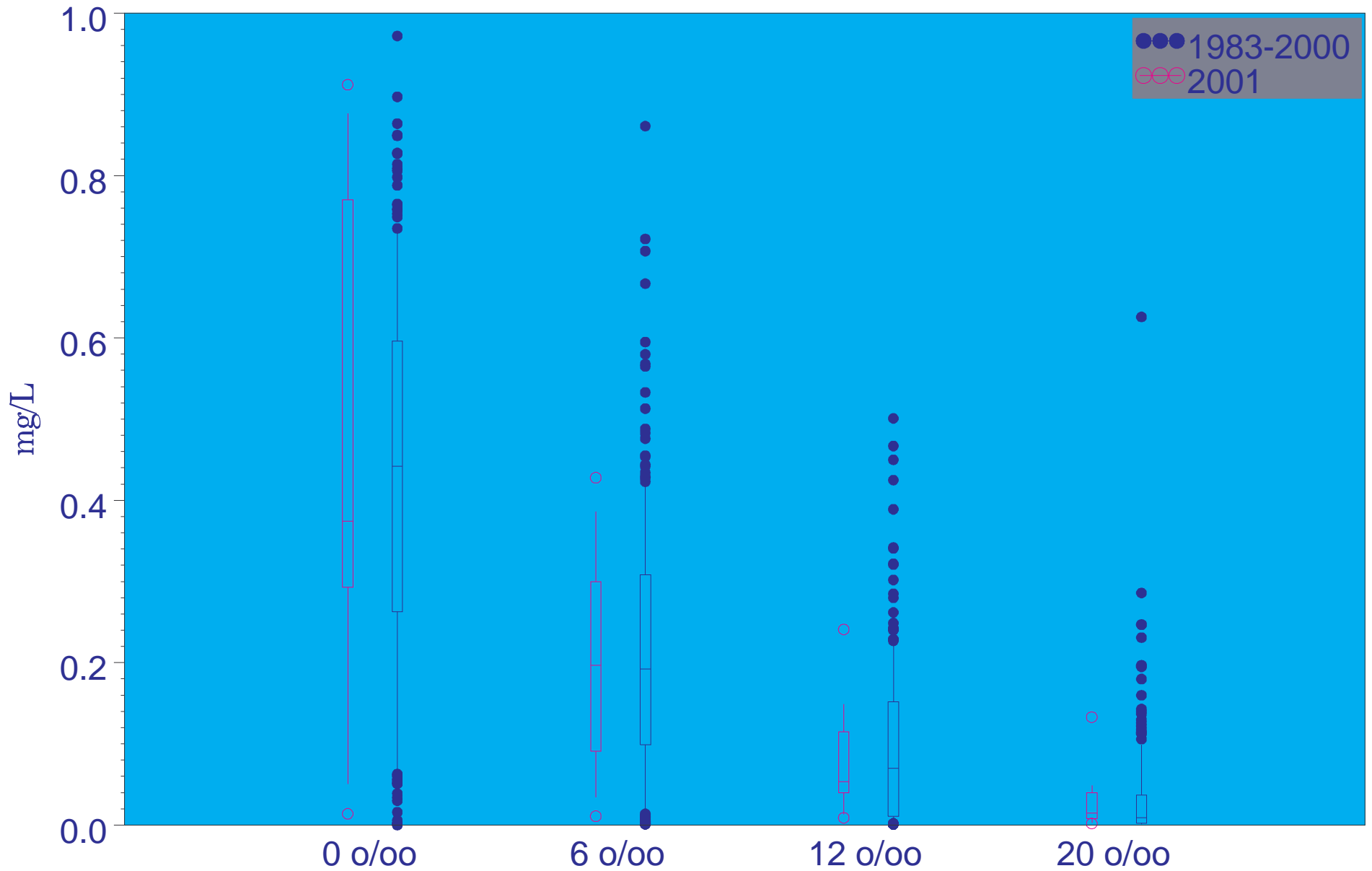


Figure 3.27 Box and Whisker Plots of Nitrite/Nitrate at salinity sampling zones (2001) & (1983-2000).

Ortho-Phosphorus

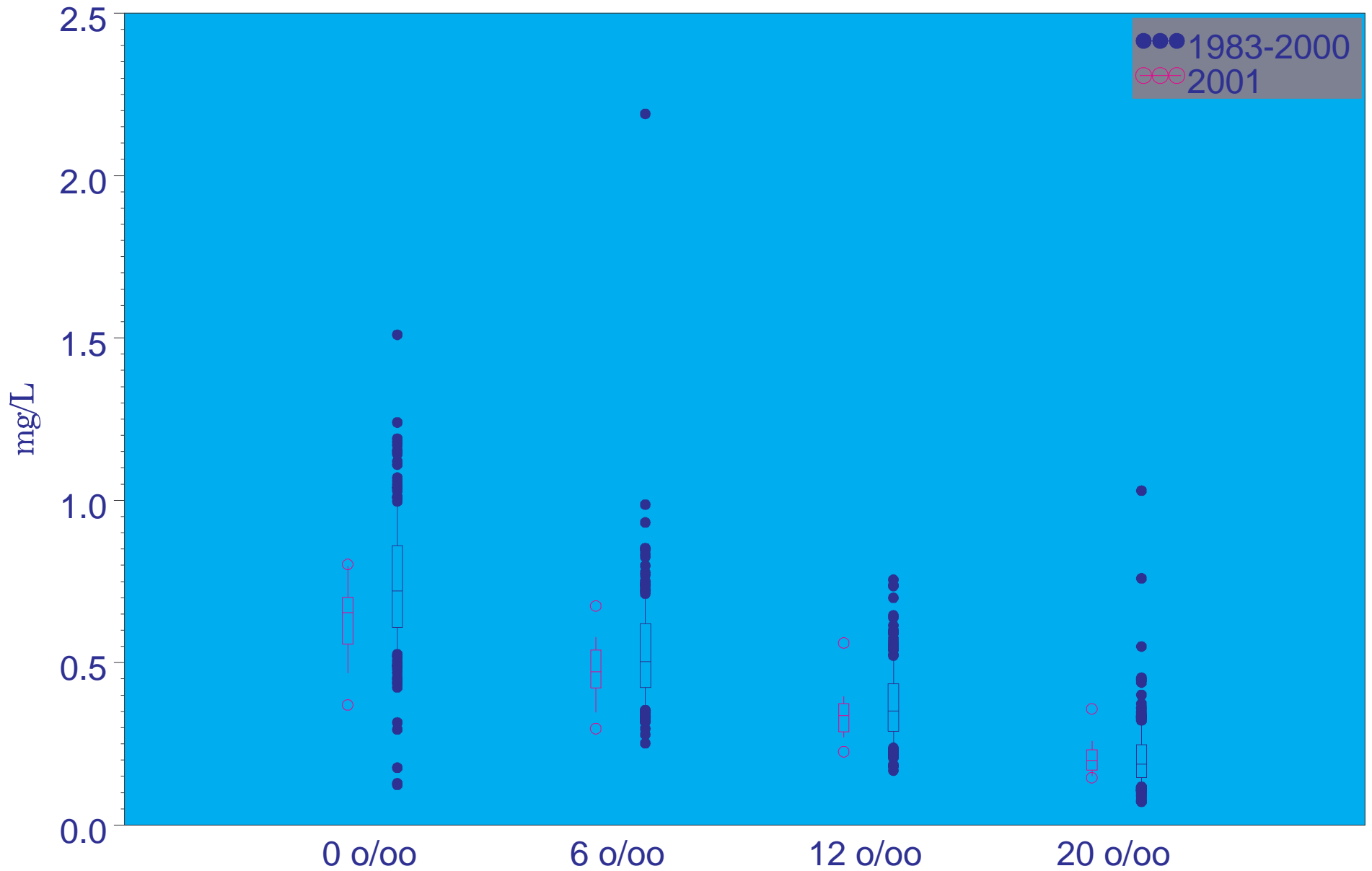


Figure 3.28 Box and Whisker Plots of Ortho-phosphorus at salinity sampling zones (2001) & (1983-2000).

Atomic Nitrogen/Phosphorus Ratio

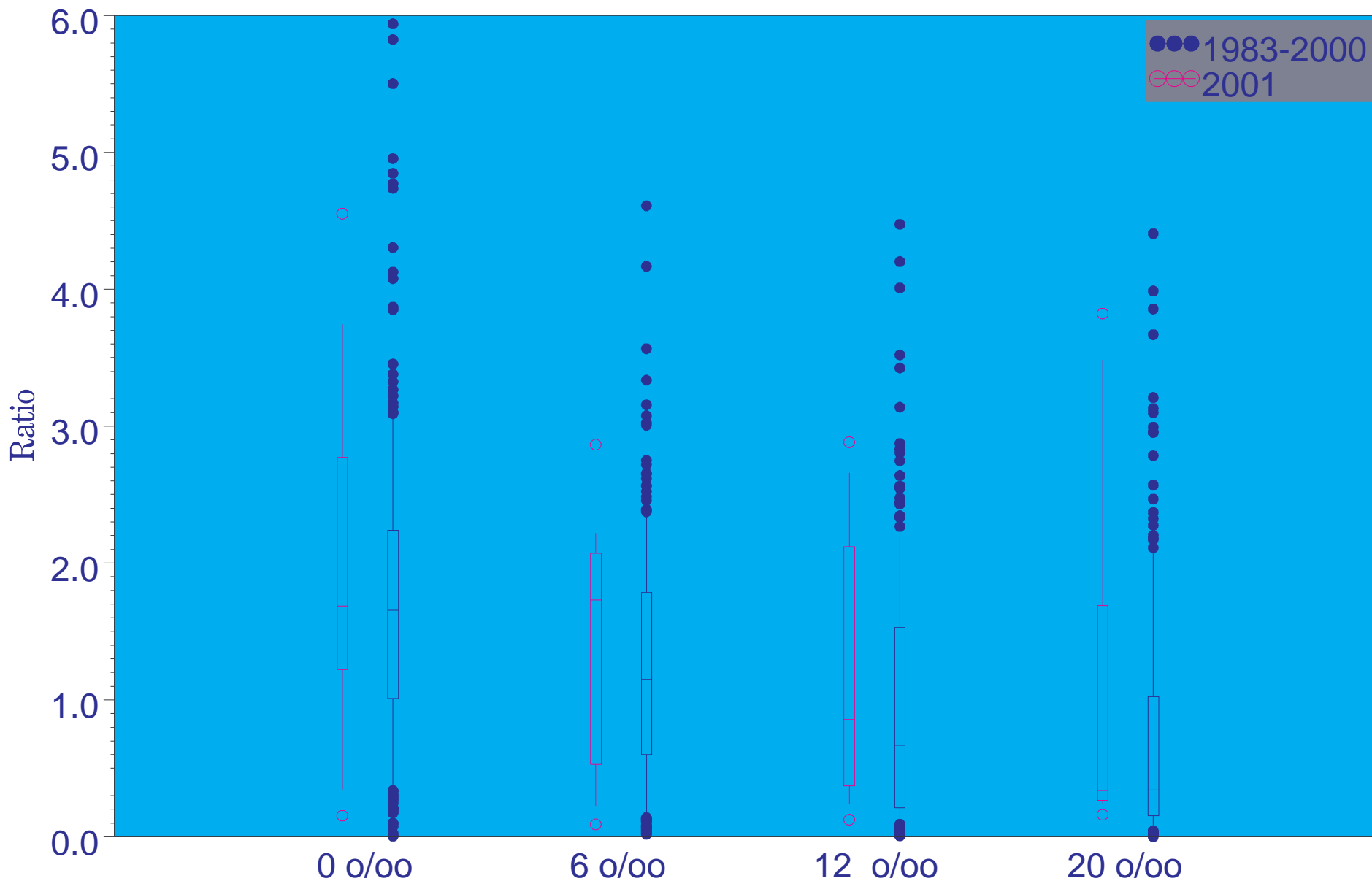


Figure 3.29 Box and Whisker Plots of Atomic N/P Ratio at salinity sampling zones (2001) & (1983-2000).

Silica

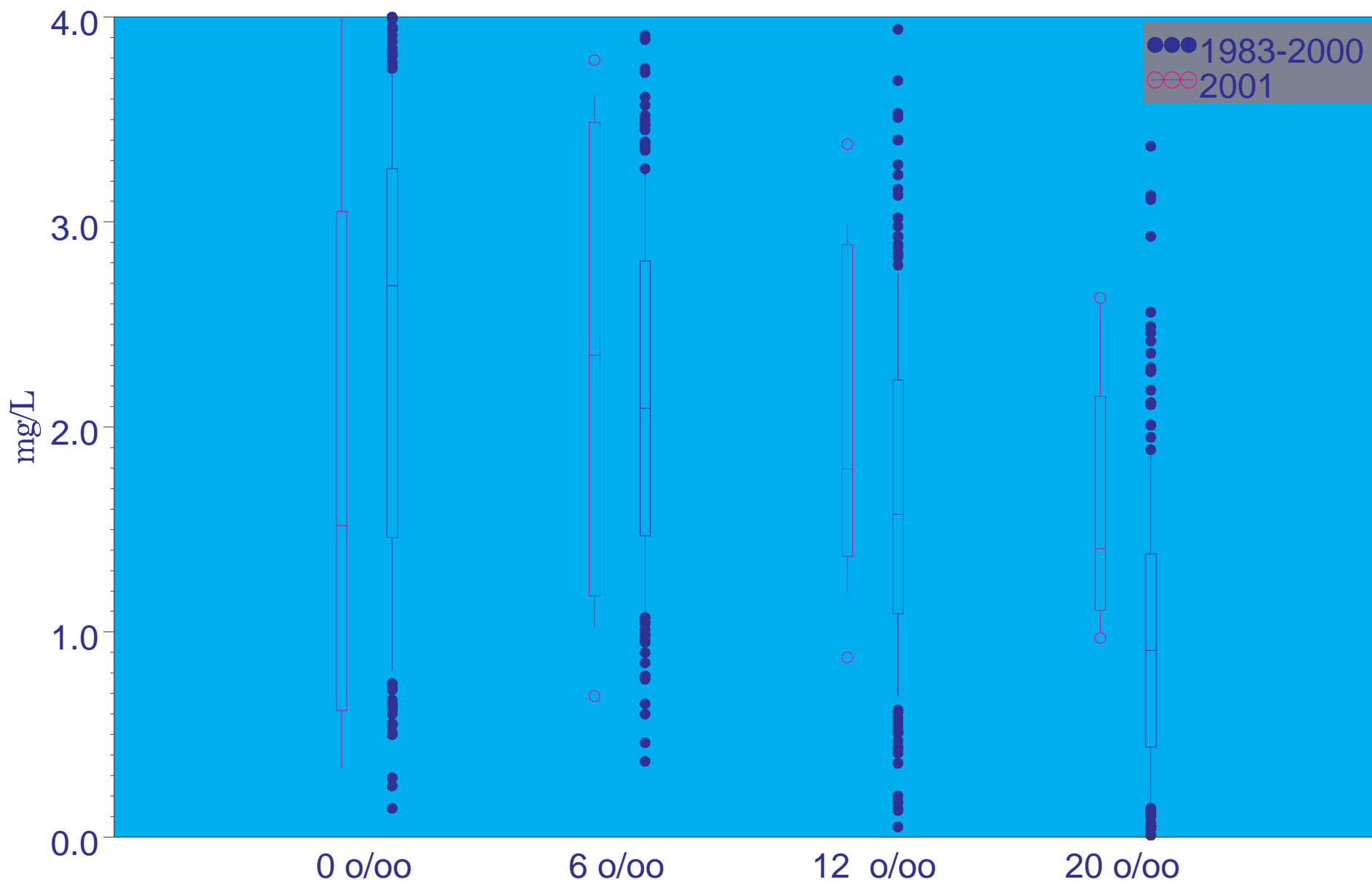


Figure 3.30 Box and Whisker Plots of Silica at salinity sampling zones (2001) & (1983-2000).

Chlorophyll a

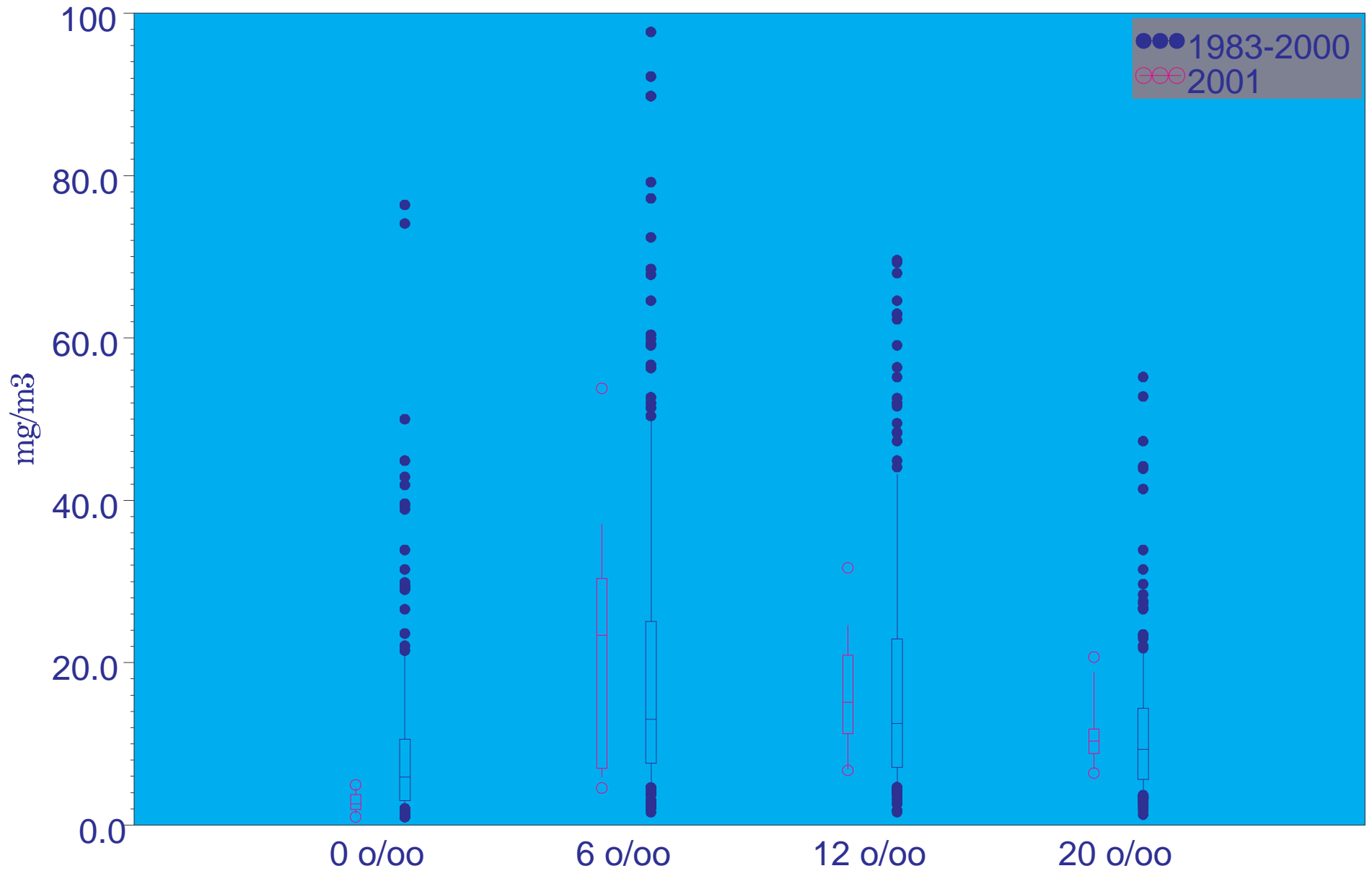


Figure 3.31 Box and Whisker Plots of Chlorophyll a (mg/m³) at salinity sampling zones (2001) & (1983-2000).

[Back to Start](#)[Next Chapter](#)

Chapter IV

Water Chemistry Data Collected at Fixed Station Locations

4.1 Introduction

A number of the HBMP elements prior to 1996 had included collections of water quality data. However, the majority of these data were *in situ* physical measurements of water column characteristics. Such *in situ* water column profile data were collected during:

1. The monthly HBMP night trawl fish study conducted between 1976-1986.
2. The sea star and benthic invertebrate studies carried out between 1976 and 1984.
3. The long-term monthly fixed station study of water column characteristics undertaken between 1976 and 1986 at numerous fixed sites in the Lower Peace River and Upper Charlotte Harbor.

In addition both water column profiles as well as surface water chemistry samples have been collected monthly since 1983 at four moving isohaline locations in conjunction with the ongoing HBMP study of phytoplankton production.

Under the 1996 expansion of the monitoring program, water chemistry data collections began at five fixed sampling locations from near the mouth of the river to upstream of the Treatment Facility. In addition, *in situ* physical water column profile sampling was instigated at 10 additional fixed sampling locations, as well as the five water chemistry stations. This water sampling and *in situ* water column investigation was initiated using sampling sites formerly (1975-1990) utilized by General Development Corporation's Environmental Quality Laboratory (EQL) for similar long-term background monitoring. Beginning in 1998, an additional fixed monthly sampling site was added to correspond to the location of the third tide gage that was installed in 1997 at river kilometer 26.7. The relative locations of these fixed sampling locations are shown in [Figure 4.1](#), while [Table 4.1](#) provides currently used river kilometers as well as previously used EQL station numbers and USGS river mile designations.

Since July 2000, Florida Environmental, Inc. (FE) has conducted all HBMP fieldwork. This has included the taking of physical water column measurements and the collection of water chemistry samples for both the "moving" isohaline and "fixed" HBMP station HBMP elements. During 2001 all water chemistry analyses continued to be conducted by ASCI/EQL, Inc.

4.2 Description of Fixed Station Data Collection

The following description provides an overview and summary of the procedures and methods used during the fixed station elements of the HBMP.

The fixed station water quality monitoring projects consists of two categories of data collection:

1. Monthly physical water column *in situ* water quality measurements at 16 fixed sampling sites.

In situ field measurements made at all sixteen physical water column profile sites include: depth; pH; temperature; dissolved oxygen; and specific conductance. Field measurements are made at 0.5 m intervals, beginning at the surface and ending near the bottom.

2. Monthly sub-surface and near-bottom chemical water quality samples collected at five locations, spaced between near the river's mouth and just upstream of the Treatment Facility along the established river kilometer centerline transect.

Near surface and near bottom samples collected at the five monthly water quality monitoring sites are analyzed for color, turbidity, alkalinity, total nutrients (ammonia nitrogen, ammonia plus organic nitrogen, nitrate plus nitrite nitrogen, nitrite nitrogen, orthophosphorus, phosphorus), total organic carbon, total inorganic carbon, dissolved organic carbon, dissolved silica, dissolved chloride, total suspended solids, volatile suspended solids, salinity (estimated from specific conductance), and chlorophyll *a*.

In situ field measurements made in conjunction with sampling at these six water quality sites include depth, pH, temperature, dissolved oxygen, specific conductance, and light characteristics.

4.3 Data Collection and Analyses

A detailed compilation of all procedures and protocols used during all elements of the HBMP has been compiled in the "Project and Quality Control Plan" submitted to the Authority in January 2001. All *in situ* physical water quality procedures and methods used in the "fixed" station HBMP monitoring during 2001 were analogous previously described in Chapter III for the "moving" isohaline study elements, with the added use of a Kemmerer to collect near-bottom water samples at each of the five water quality sampling locations.

4.4 Results and Conclusions

4.4.1 Physical Water Column Characteristics (2001)

The results for the period January through December 2001 of the *in situ* hydrolab water column profiles at the sixteen fixed stations are presented in [Appendix E](#). Complete analyses of the accompanying *in situ* water column light profile data are presented in detail in [Appendix F](#). These data are presented graphically in Figure 4.2 through Figure 4.6 (see Table 4.2).

Table 4.2 Summary Graphics of Mean Physical Water Column <i>In Situ</i> Water Quality Measurements for Data Collected during 2001 at the Fixed Sampling Locations.	
Figure	Description
Figure 4.2a	Average Temperature at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.2b	Average Temperature at River Kilometers 12.7, 12.8, 15.5 and 17.5
Figure 4.2c	Average Temperature at River Kilometers 20.1, 21.9, 23.6 and 24.7
Figure 4.2d	Average Temperature at River Kilometers 25.9, 29.5, 30.4 and 32.3
Figure 4.3a	Average Dissolved Oxygen at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.3b	Average Dissolved Oxygen at River Kilometers 12.7, 12.8, 15.5 and 17.5
Figure 4.3c	Average Dissolved Oxygen at River Kilometers 20.1, 21.9, 23.6 and 24.7
Figure 4.3d	Average Dissolved Oxygen at River Kilometers 25.9, 29.5, 30.4 and 32.3
Figure 4.4a	Average pH at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.4b	Average pH at River Kilometers 12.7, 12.8, 15.5 and 17.5
Figure 4.4c	Average pH at River Kilometers 20.1, 21.9, 23.6 and 24.7
Figure 4.4d	Average pH at River Kilometers 25.9, 29.5, 30.4 and 32.3
Figure 4.5a	1% Light Depth at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.5b	1% Light Depth at River Kilometers 12.7, 12.8, 15.5 and 17.5
Figure 4.5c	1% Light Depth at River Kilometers 20.1, 21.9, 23.6 and 24.7
Figure 4.5d	1% Light Depth at River Kilometers 25.9, 29.5, 30.4 and 32.3
Figure 4.6a	Average Specific Conductance at River Kilometers –2.4, 6.6, 8.4 and 10.5
Figure 4.6b	Average Specific Conductance at River Kilometers 12.7, 12.8, 15.5 and 17.5
Figure 4.6c	Average Specific Conductance at River Kilometers 20.1, 21.9, 23.6 and 24.7
Figure 4.6d	Average Specific Conductance at River Kilometers 25.9, 29.5, 30.4 and 32.3

These data indicated some seasonal differences among the sixteen “fixed” sampling sites. In the lower areas of the river, between river kilometers –2.4 and 10.5, the previously reported wet-season depression of average dissolved oxygen levels was more intense at least a month earlier than further upstream. Such observations are consistent with the widely documented hypoxic/anoxic conditions that typically result from the extreme water column stratification common in the upper regions of the harbor during the summer wet-season. By comparison, the lowest average oxygen concentrations at the most upstream sampling locations (river kilometers 12.7 through 32.3) took place in September, during the peak of an unusual high flow event.

There were also apparent seasonal differences along the transect in the timing and magnitude of the penetration of light into the water column. Between the river mouth (RK –2.4) and the US41 Bridge (RK 6.5), water clarity increased at the end of the dry-season (May-June), reflecting reduced color and nutrient (phytoplankton production) inputs.

The magnitude of the extended drought conditions during the first part of 2001 in the Peace River basin is apparent in the very high conductivities that were observed even at the most upstream sampling locations during the spring. The conductivity data also clearly indicate the extent and duration of low conductivity water in the region of the Upper Harbor near the rivers mouth during the high flow events in July and September.

4.4.2 Chemical Water Quality Characteristics (2001)

The 2001 water chemistry data for the five fixed water quality stations are presented in [Appendix G](#). Comparisons of surface and bottom samples for selected parameters are graphically summarized in Figure 4.7 through Figure 4.15 (see Table 4.3).

Table 4.3 Summary Graphics of Chemical Water Quality Measurements for Data Collected during 2001 at the Fixed Sampling Locations (River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4).	
Figure	Description
Figure 4.7a	Color at fixed sampling stations – Surface
Figure 4.7b	Color at fixed sampling stations – Bottom
Figure 4.8a	Turbidity at fixed sampling stations – Surface
Figure 4.8b	Turbidity at fixed sampling stations – Bottom
Figure 4.9a	Total Suspended Solids at fixed sampling stations – Surface
Figure 4.9b	Total Suspended Solids at fixed sampling stations – Bottom
Figure 4.10a	Nitrite/Nitrate at fixed sampling stations – Surface
Figure 4.10b	Nitrite/Nitrate at fixed sampling stations – Bottom
Figure 4.11a	Total Kjeldahl Nitrogen at fixed sampling stations – Surface
Figure 4.11b	Total Kjeldahl Nitrogen at fixed sampling stations – Bottom

Table 4.3 Summary Graphics of Chemical Water Quality Measurements for Data Collected during 2001 at the Fixed Sampling Locations (River Kilometers –2.4, 6.6, 15.5, 23.6 and 30.4).

Figure	Description
Figure 4.12a	Total Phosphorus at fixed sampling stations – Surface
Figure 4.12b	Total Phosphorus at fixed sampling stations – Bottom
Figure 4.13a	Total Organic Carbon at fixed sampling stations – Surface
Figure 4.13b	Total Organic Carbon at fixed sampling stations – Bottom
Figure 4.14a	Silica at fixed sampling stations – Surface
Figure 4.14b	Silica at fixed sampling stations – Bottom
Figure 4.15a	Chlorophyll <i>a</i> at fixed sampling stations – Surface
Figure 4.15b	Chlorophyll <i>a</i> at fixed sampling stations – Bottom

These graphics indicate, that for a number of these water quality constituents, there are strong spatial seasonal differences within the areas of the estuary represented by these locations, and/or differences between corresponding near surface and near bottom samples. For example, as expected water color is clearly seasonally higher further upstream, and during the late summer is much higher near the river's mouth at the surface than near the bottom.

While several of the other measured water quality parameters indicated seasonal relationships with increasing flow, the patterns of others are far more complex.

- Turbidity and Total Suspended Solids were both lowest when flows were highest during the late summer wet-season.
- Inorganic nitrite + nitrate nitrogen concentrations were the lowest during the spring dry-season, when light and water temperatures were high (increased phytoplankton production) and freshwater inflows were low.
- Total Kjeldahl Nitrogen generally seemed to be following sunlight/water temperature.
- Inorganic phosphorus concentrations increased in response to freshwater inflows during the summer wet-season, and then were atypically high during December.
- The observed seasonal patterns in total organic carbon suggest responses to both light/temperature and freshwater inflows.
- Reactive silica concentrations suggest a number of differing patterns. During the spring dry-season, the data suggests depressed concentrations near the river's mouth corresponding with periods of increased chlorophyll *a* biomass (reflecting uptake by diatoms in the phytoplankton). During this same time period, further upstream, reactive silica concentrations were slowly increasing. Then in July, with the start of the summer wet-season, ambient concentrations rapidly increased throughout the lower river, only then to decline as flows continued to increase.

- During 2001, the typical spring and late summer increases in chlorophyll *a* were far less dramatic than have been previously observed in the lower Peace River estuarine system.

4.4.3 Long-Term Physical and Chemical Water Quality Characteristics (1976-2001)

During the period 1975-1990, the Environmental Quality Laboratory (EQL) conducted an extensive, long-term monitoring program within the Charlotte Harbor estuarine system, independent of the requirements of the HBMP. These data included chemical water quality analyses of monthly surface and bottom samples, at the same locations, for many of the same parameters that were added to the HBMP permit requirements during 1996. Figures 4.16 through 4.35 (see Table 4.4) graphically present data, for a selected number of sub-surface and near-bottom measurements, gathered during the period 1976-1990 with those subsequently measured as part of the current HBMP effort during 1996-2001.

Figure	Description
Figures 4.16a through 4.16e	Surface Salinity by River Kilometer
Figures 4.17a through 4.17e	Bottom Salinity by River Kilometer
Figures 4.18a through 4.18e	Surface Dissolved Oxygen Levels by River Kilometer
Figures 4.19a through 4.19e	Bottom Dissolved Oxygen Levels by River Kilometer
Figures 4.20a through 4.20e	Surface Water Color by River Kilometer
Figures 4.21a through 4.21e	Bottom Water Color by River Kilometer
Figures 4.22a through 4.22e	Surface Turbidity by River Kilometer
Figures 4.23a through 4.23e	Bottom Turbidity by River Kilometer
Figure 4.24a through 4.24e	Surface Nitrite/Nitrate Nitrogen Concentrations by River Km.
Figures 4.25a through 4.25e	Bottom Nitrite/Nitrate Nitrogen Concentrations by River Km.
Figures 4.26a through 4.26e	Surface Total Kjeldahl Nitrogen Concentrations by River Km.
Figures 4.27a through 4.27e	Bottom Total Kjeldahl Nitrogen Concentrations by River Km.
Figures 4.28a through 4.28e	Surface Ortho-phosphorus Concentrations by River Kilometer
Figures 4.29a through 4.29e	Bottom Ortho-phosphorus Concentrations by River Kilometer
Figures 4.30a through 4.30e	Surface Silica Concentrations by River Kilometer
Figures 4.31a through 4.31e	Bottom Silica Concentrations by River Kilometer
Figures 4.32a through 4.32e	Surface Total Organic Carbon Concentrations by River Km.
Figures 4.33a through 4.33e	Bottom Total Organic Carbon Concentrations by River Km.
Figures 4.34a through 4.34e	Surface Chlorophyll <i>a</i> Concentrations by River Kilometer
Figures 4.35a through 4.35e	Bottom Chlorophyll <i>a</i> Concentrations by River Kilometer Note: EQL samples not analyzed for chlorophyll <i>a</i> are indicated as “Zero”

These graphics indicate a number of interesting patterns:

- Salinities at the two most upstream sampling sites (river kilometers 23.6 and 30.4) have generally been greater during the recent 2000/2001 drought than during the similar extended drought that occurred following the 1983 El Niño.
- Near-bottom dissolved oxygen concentration show clear seasonal cycles in response to summer wet-season freshwater inflows. Both the duration and magnitude of these periods of depressed dissolved oxygen concentrations increase towards the river's mouth.
- The very high freshwater inflows during 2001 resulted in near record water color levels throughout the lower Peace River.
- Measured levels of turbidity, especially at the upstream sampling sites, seem to have been lower and less variable during the past six years than similar observations made during most of the 1980s.
- Both inorganic nitrite + nitrate and total Kjeldahl nitrogen concentrations indicate very similar seasonal patterns and levels of variation over the entire twenty-six years of monitoring. As expected, concentrations of inorganic nitrogen show a marked increases moving upstream.
- Most of the marked previously reported declines in phosphorous concentrations that were apparent in the upstream reaches of the estuary occurred prior 1985. Since that time inorganic phosphorus concentrations have shown fairly consistent seasonal patterns over a comparably narrow range of variation.
- The long-term data clearly shows that reactive silica concentrations have increase, and have much wider ranges of variation during the recent monitoring period when compared to data collected during the 1980s.
- The data indicate that total organic carbon concentrations, especially towards the river's mouth, have been lower during the recent six year period when compared to similar historic levels.
- There has been a marked decline in the very high chlorophyll *a* concentrations that commonly occurred during the late 70s and early 80s in the more freshwater reaches of the study area.

Table 4.6 presents statistical summaries of mean near-surface values at each of the five fixed sampling locations during 2001, in comparison to previous data gathered during the five year period 1996-2000.



[Back to Start](#)



[Next Chapter](#)

Table 4.1 HBMP Fixed Sampling Locations

USGS River Mile	USGS Location Number	Previous EQL Station Number	Additional Sampling	New River Kilometer designation based on Morphometric Study
Current <i>In Situ</i> Water Column Profile Sampling				
CH6	265355082075500	9	Water Quality	-2.4
RM3.95	265640082033500	10	Water Quality	6.6
RM4.88	265724082024400	21		8.4
RM6.25	265727082012800	11		10.5
RM8.61	265711081595500	Shell Creek 9		12.7
RM8.6B	265819082003200	22		12.8
RM10.2	2297460	12	Water Quality/Tide Gage/Conductivity	15.5
RM11.2	270022081591000	23		17.5
RM 12.55	270124081592500	13		20.1
RM13.95	270235081592400	24		21.9
RM14.82	270318081593100	14	Water Quality	23.6
RM15.45	270337081595800	25		24.7
RM16.29	270418082001600	15		25.9
N/A	2297350	N/A	Tide Gage/Conductivity	26.7
RM18.25	270451081595100	17		29.5
RM18.95	2297330	18	Water Quality	30.4
RM19.5	270537081585800	19		32.3
Vegetation Transect Locations				
N/A	N/A	I		15.6
N/A	N/A	II		22.3
N/A	N/A	III		20.4
Previous EQL Water Column and Chemistry Sampling Sites				
N/A	N/A	16		27.1
N/A	N/A	20		34.1

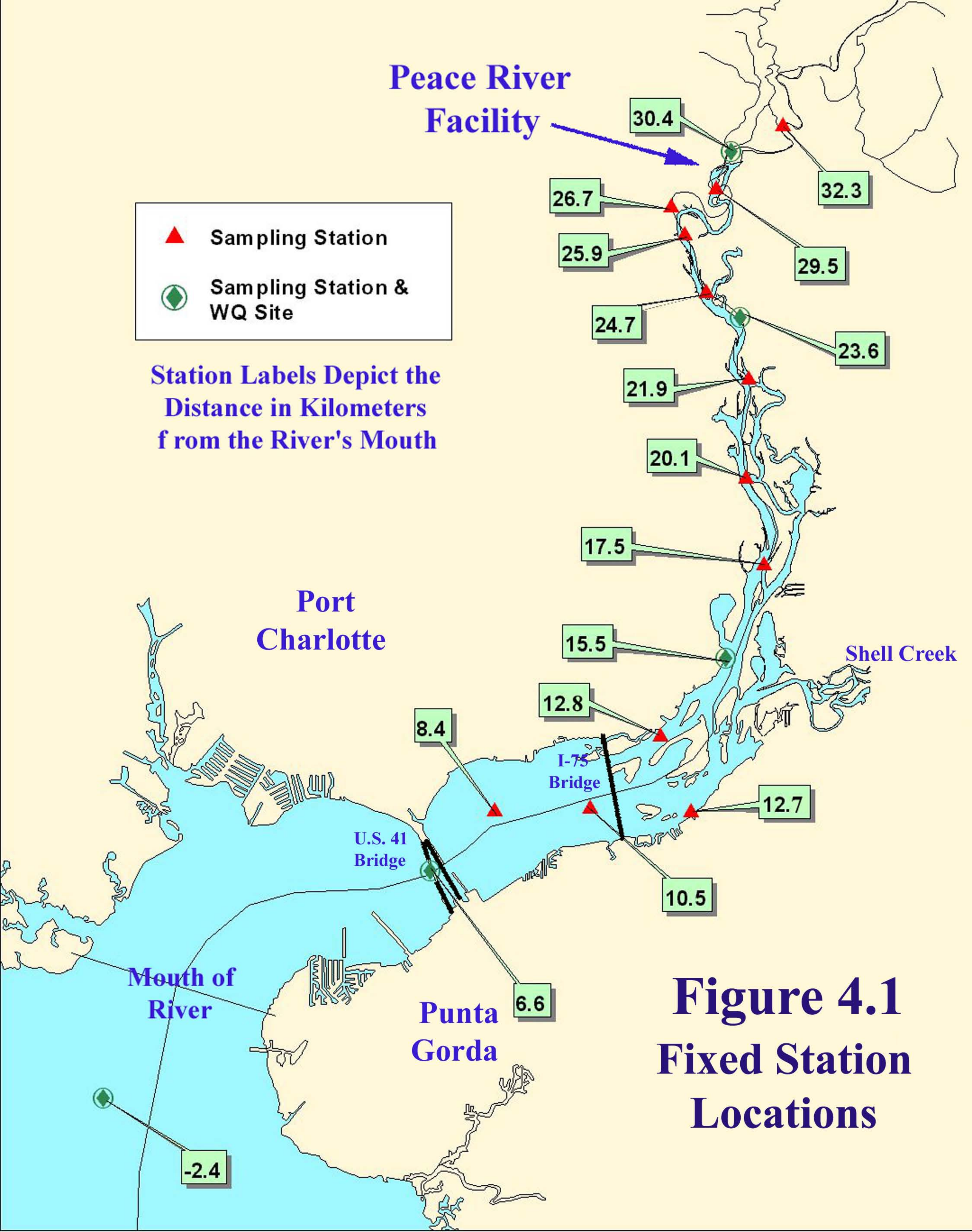
Table 4.6 Mean Near Surface Values for Key Physical, Chemical and Biological Measurements at Fixed Sampling Sites

RIVER KILOMETER	COLOR	TURBIDITY	IRON	TOC	N23	TKN	OP	SI	CHLA
Summary of data from current year – 2001									
-2.4	86	8.23	0.42	9.9	0.040	1.02	0.14	1.6	6.3
6.6	116	3.48	0.44	12.8	0.056	1.15	0.22	2.0	9.5
15.5	164	3.35	0.37	18.2	0.248	1.43	0.43	3.3	15.5
23.6	177	3.54	0.36	20.6	0.409	1.36	0.62	3.6	19.4
30.4	173	2.58	0.32	20.3	0.616	1.25	0.70	3.5	11.1
Summary of data from preceding period 1996-2000									
-2.4	39	1.70	0.30	11.7	0.034	0.67	0.15	1.8	14.6
6.6	74	3.07	0.30	13.2	0.086	0.83	0.26	2.7	11.0
15.5	123	4.02	0.34	16.9	0.212	1.14	0.47	4.3	17.5
23.6	124	2.98	0.32	18.4	0.382	0.99	0.62	5.0	11.3
30.4	125	3.39	0.34	17.8	0.498	0.99	0.66	4.8	6.8

Color = Color Co_Pt Units
 Turb = Turbidity NTU
 Iron = Iron mg/L

TOC = Total Organic Carbon mg/L
 N23 = Nitrite+Nitrate Nitrogen mg/L
 TKN= Total Kjeldhal Nitrogen mg/L

OP = Ortho-phosphorus mg/L
 SI = Reactive Silica mg/L
 CHLA = Chlorophyll *a* ug/L



**Figure 4.1
Fixed Station
Locations**

Temperature

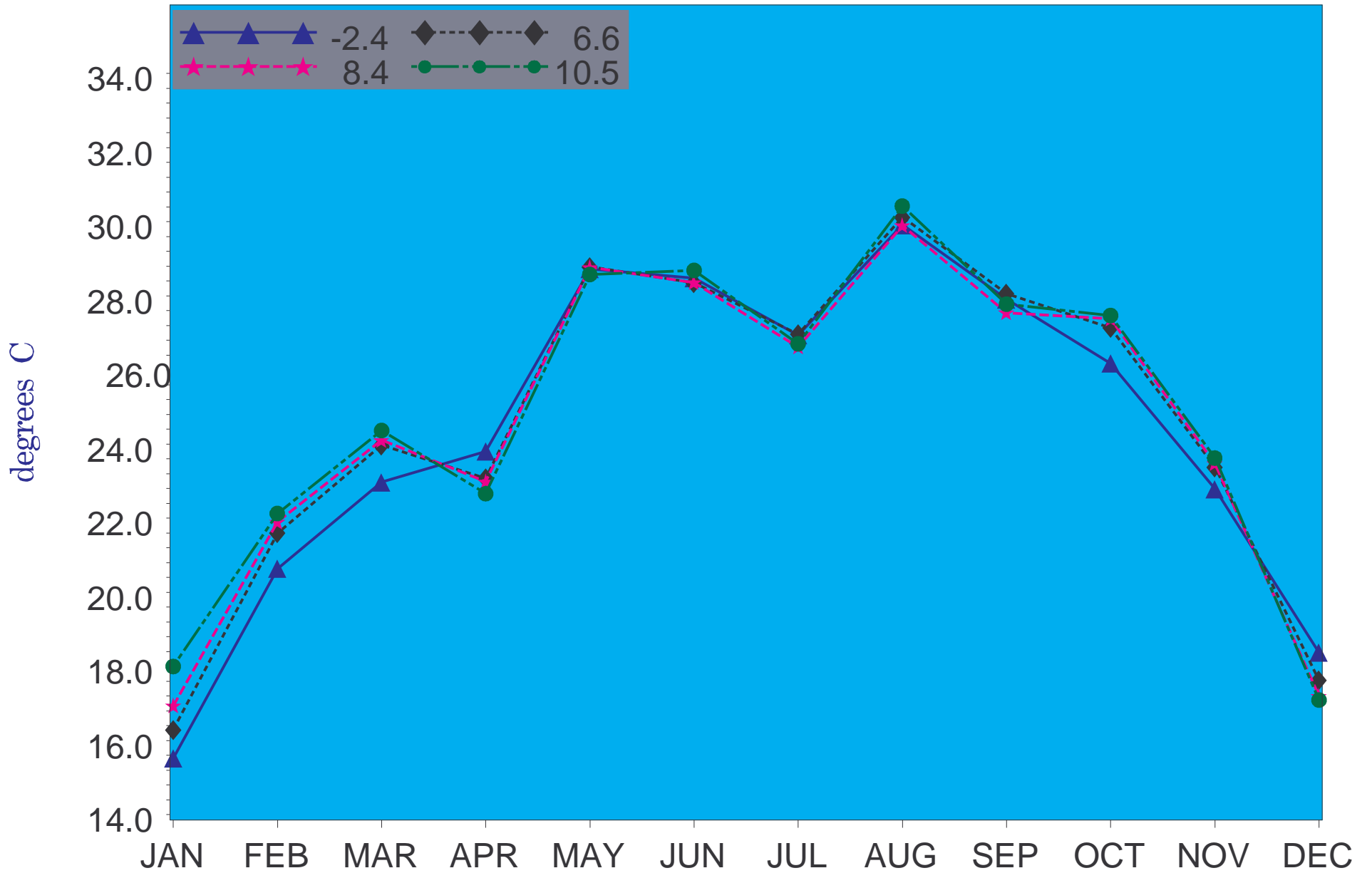


Figure 4.2a 2001 Temperature at River Kilometers -2.4, 6.6, 8.4 and 10.5.

Temperature

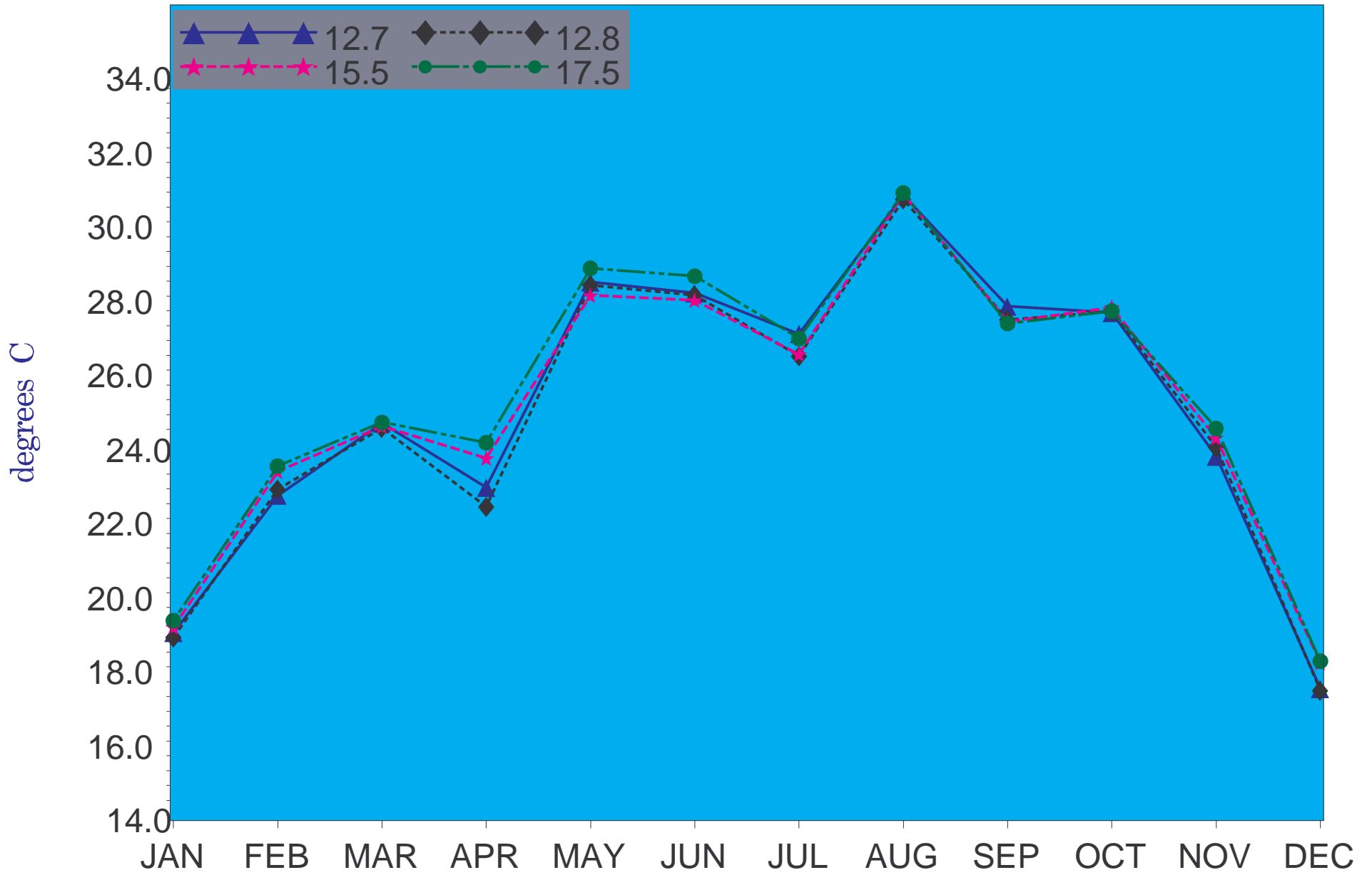


Figure 4.2b 2001 Temperature at River Kilometers 12.7, 12.8, 15.5 and 17.5.

Temperature

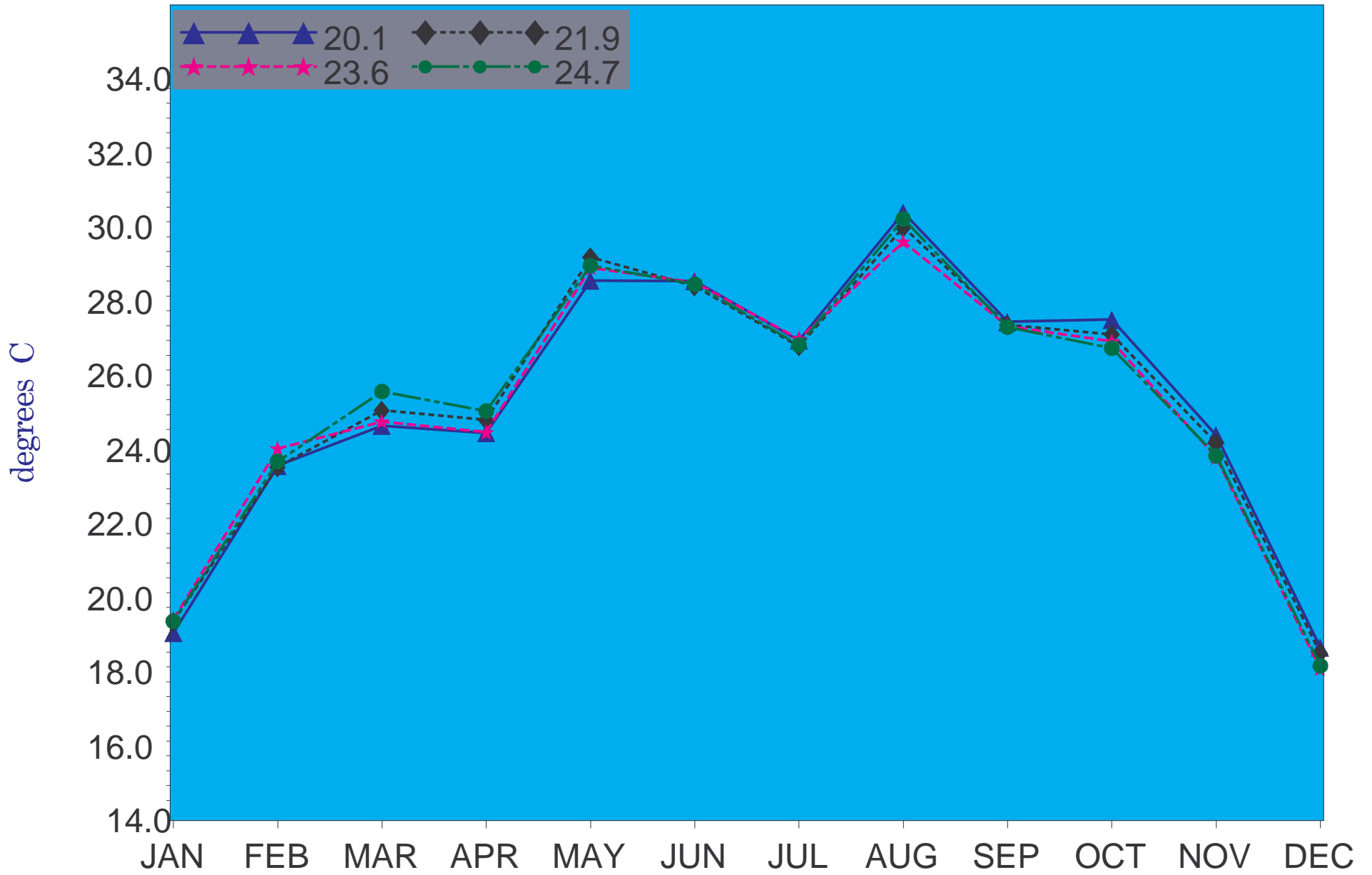


Figure 4.2c 2001 Temperature at River Kilometers 20.1, 21.9, 23.6 and 24.7.

Temperature

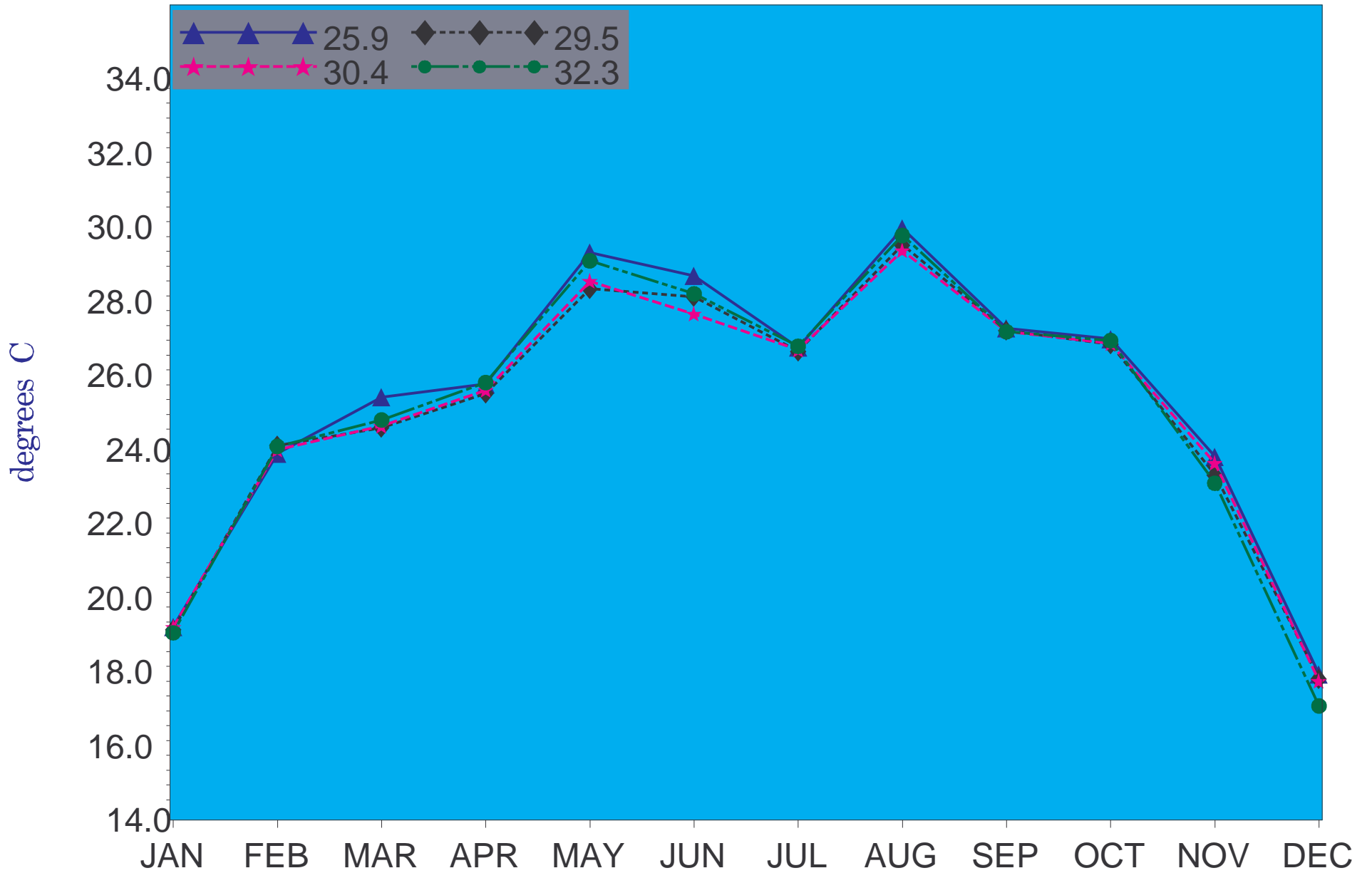


Figure 4.2d 2001 Temperature at River Kilometers 25.9, 29.5, 30.4 and 32.3.

Dissolved Oxygen

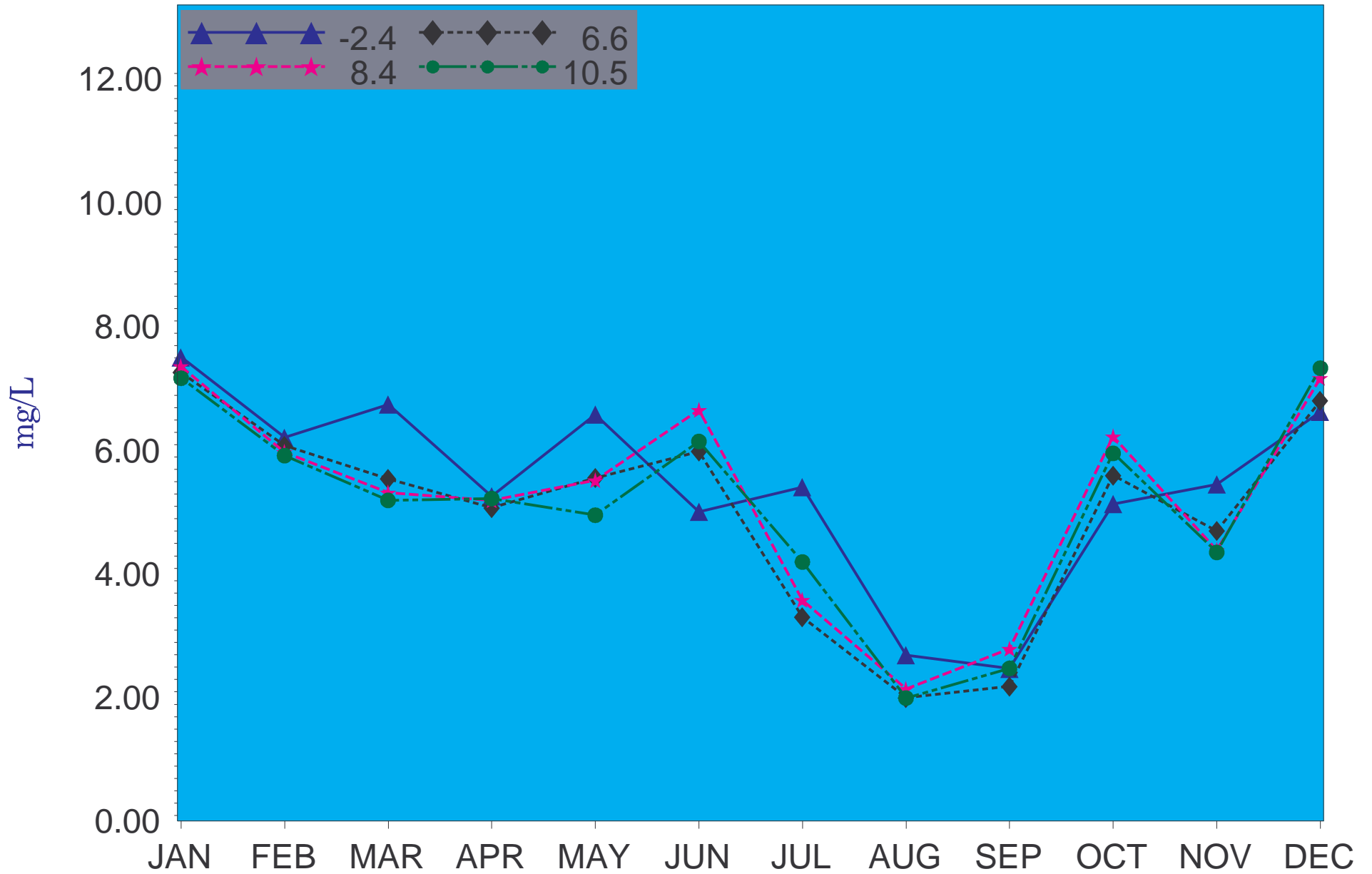


Figure 4.3a 2001 Dissolved Oxygen at River Kilometers -2.4, 6.6, 8.4 and 10.5.

Dissolved Oxygen

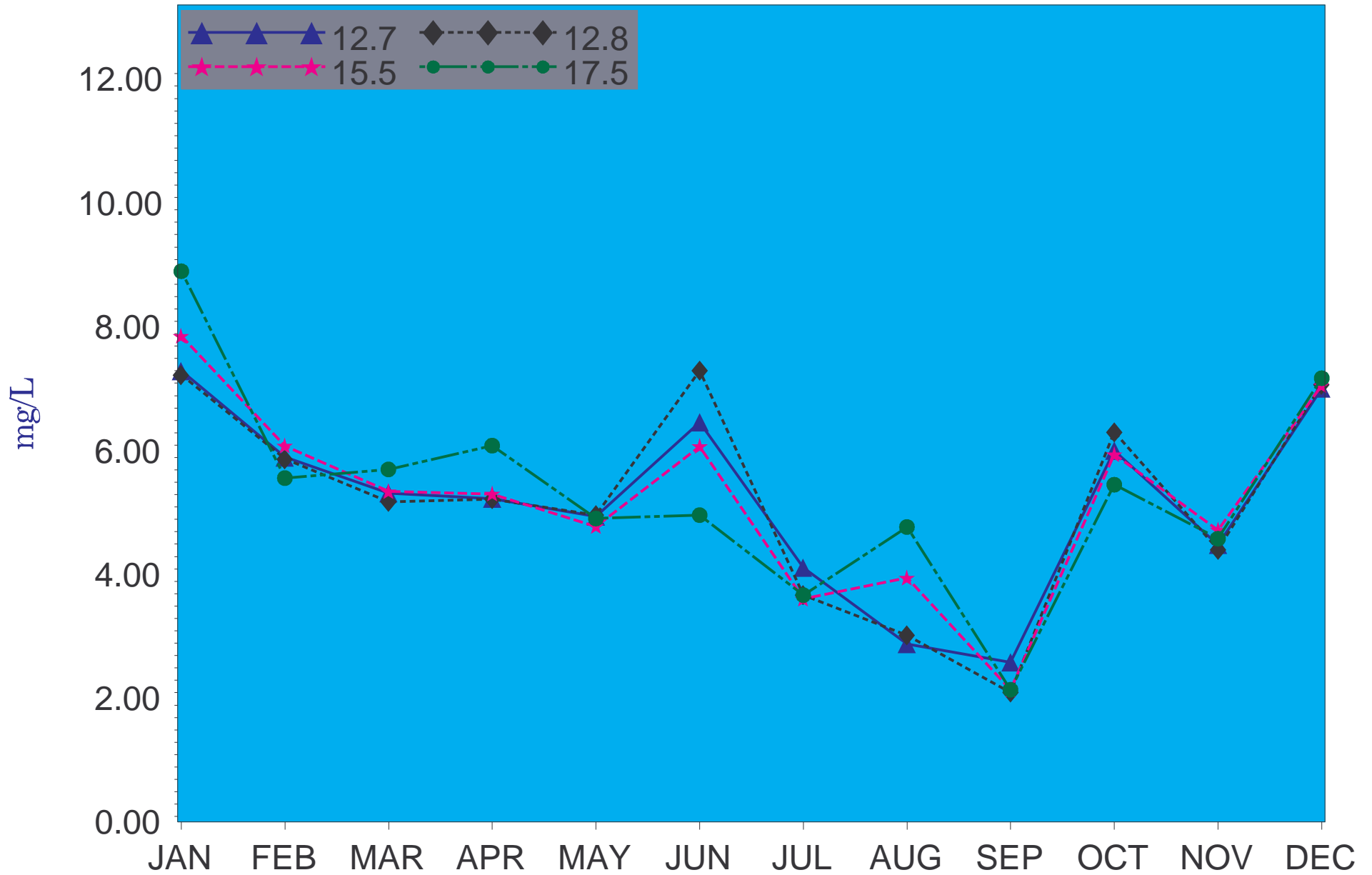


Figure 4.3b 2001 Dissolved Oxygen at River Kilometers 12.7, 12.8, 15.5 and 17.5.

Dissolved Oxygen

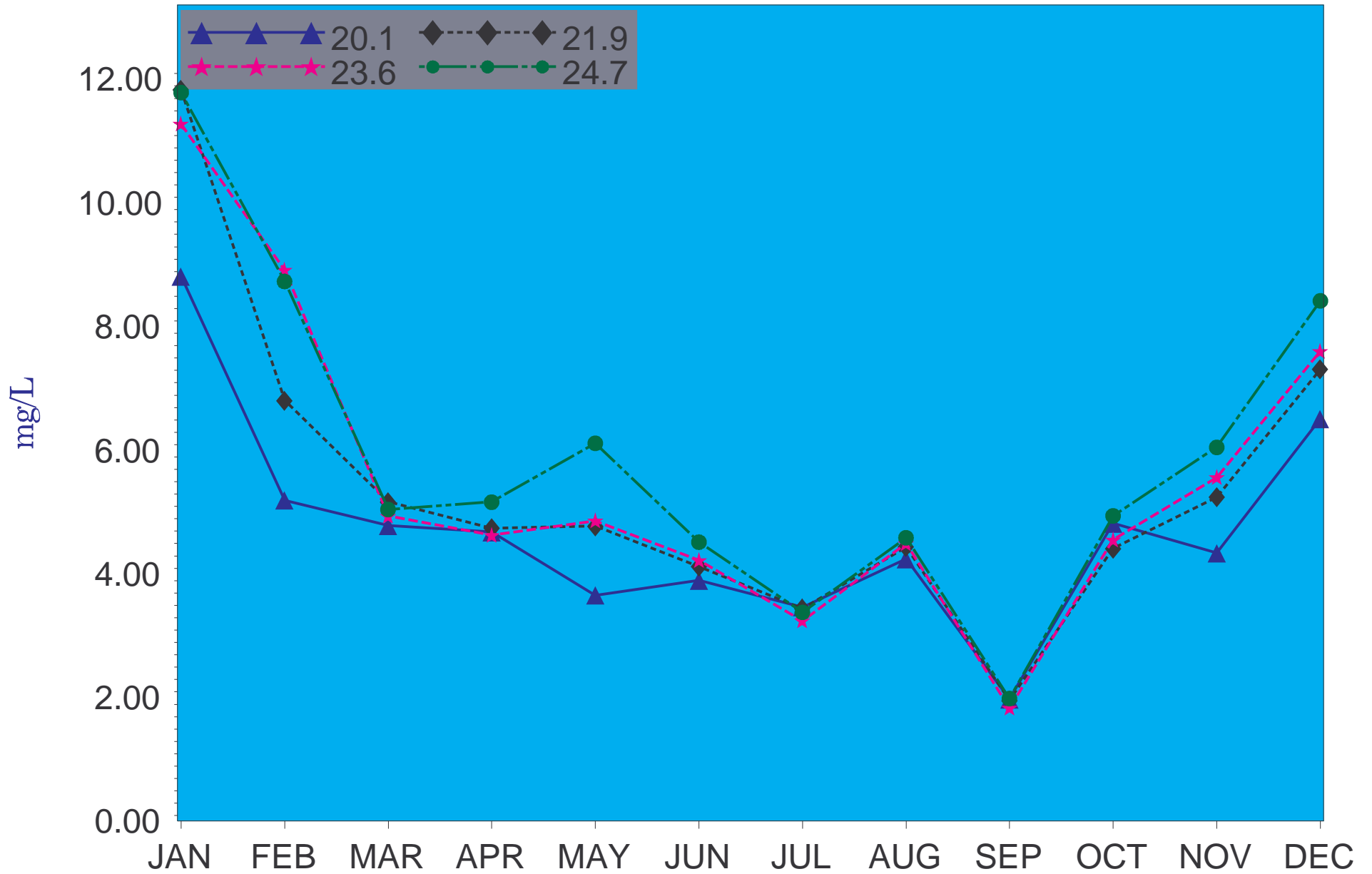


Figure 4.3c 2001 Dissolved Oxygen at River Kilometers 20.1, 21.9, 23.6 and 24.7.

Dissolved Oxygen

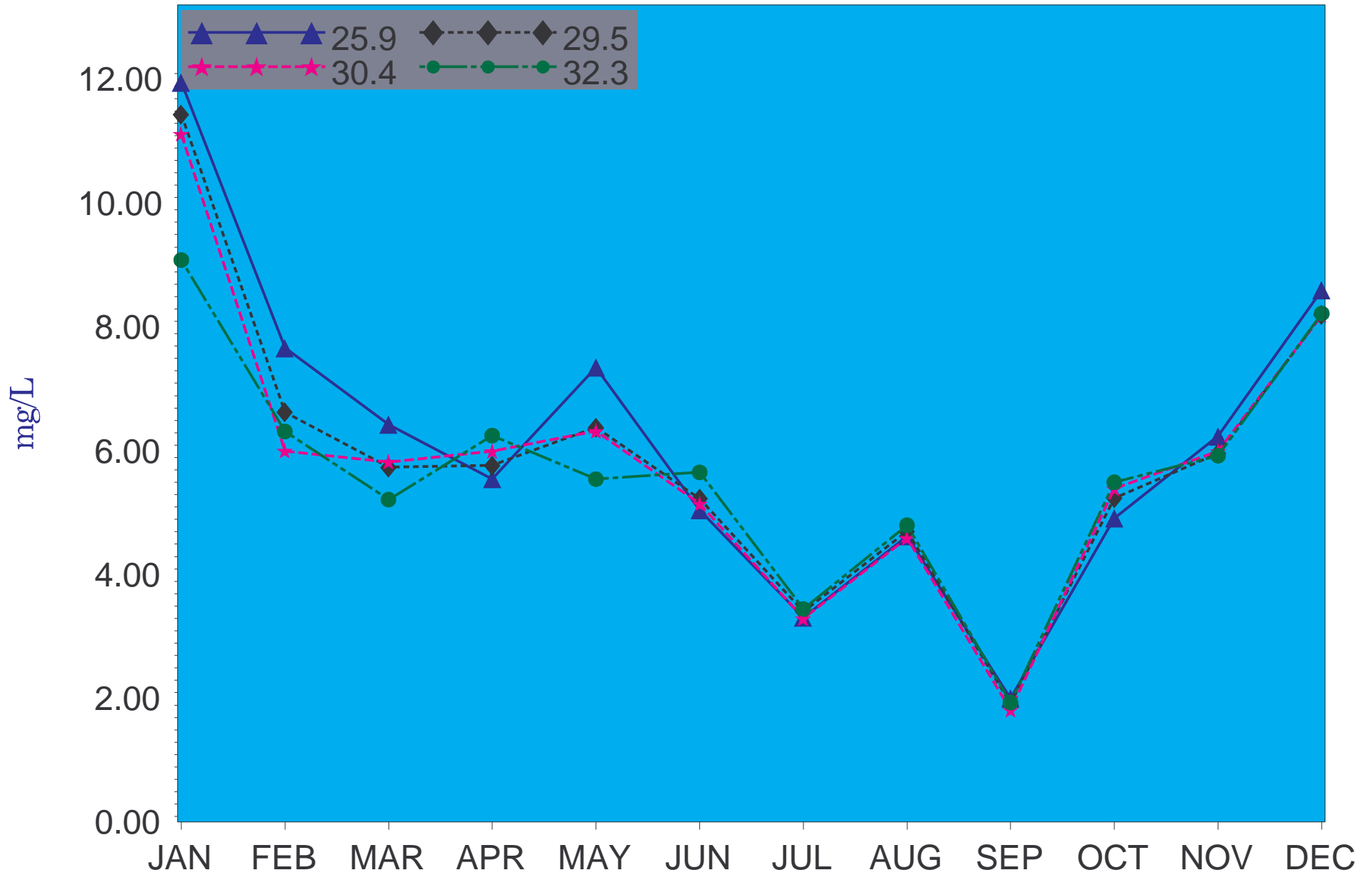


Figure 4.3d 2001 Dissolved Oxygen River Kilometers 25.9, 29.5, 30.4 and 32.3.

pH (Field)

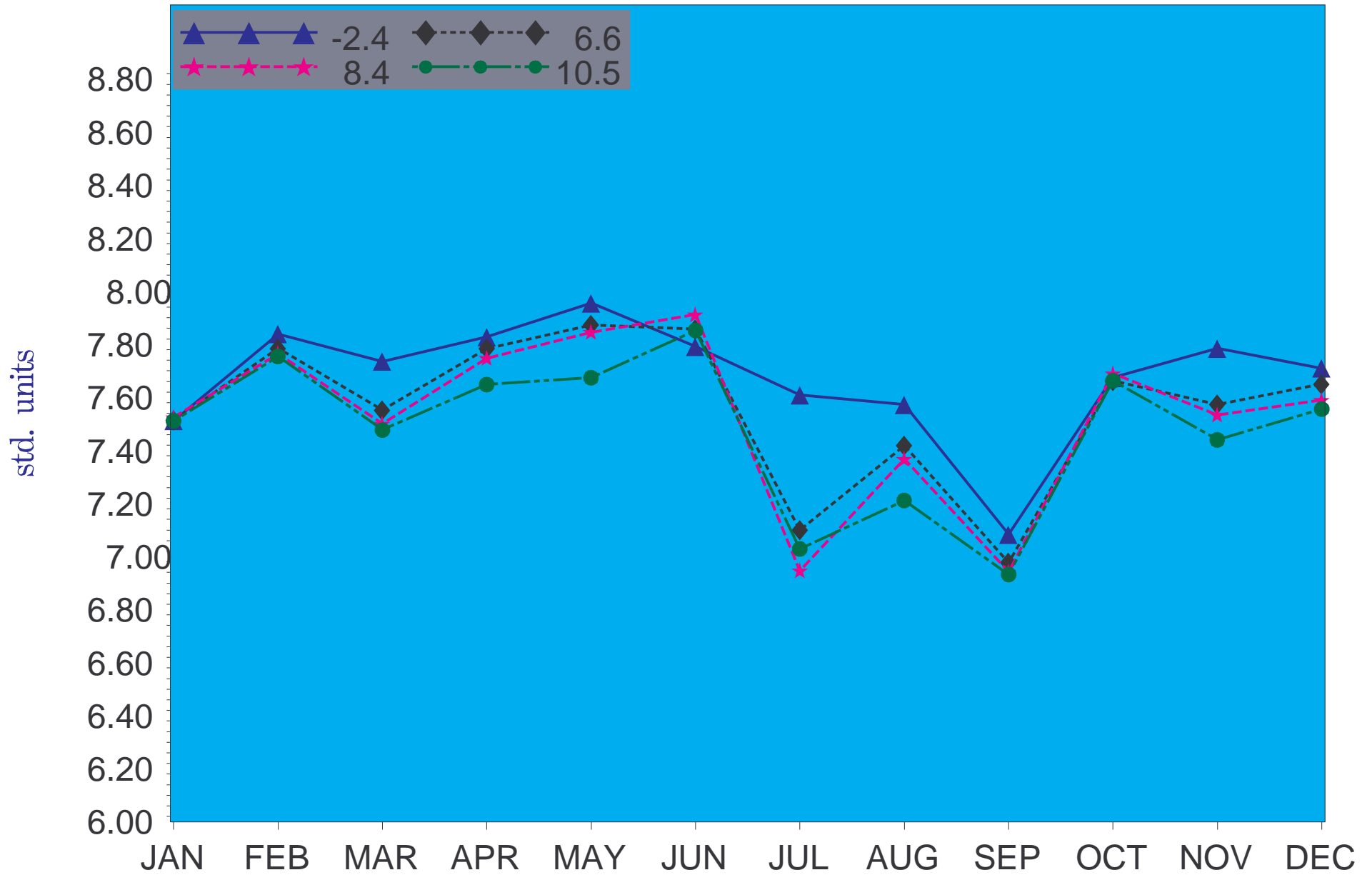


Figure 4.4a 2001 pH at River Kilometers -2.4, 6.6, 8.4 and 10.5.

pH (Field)

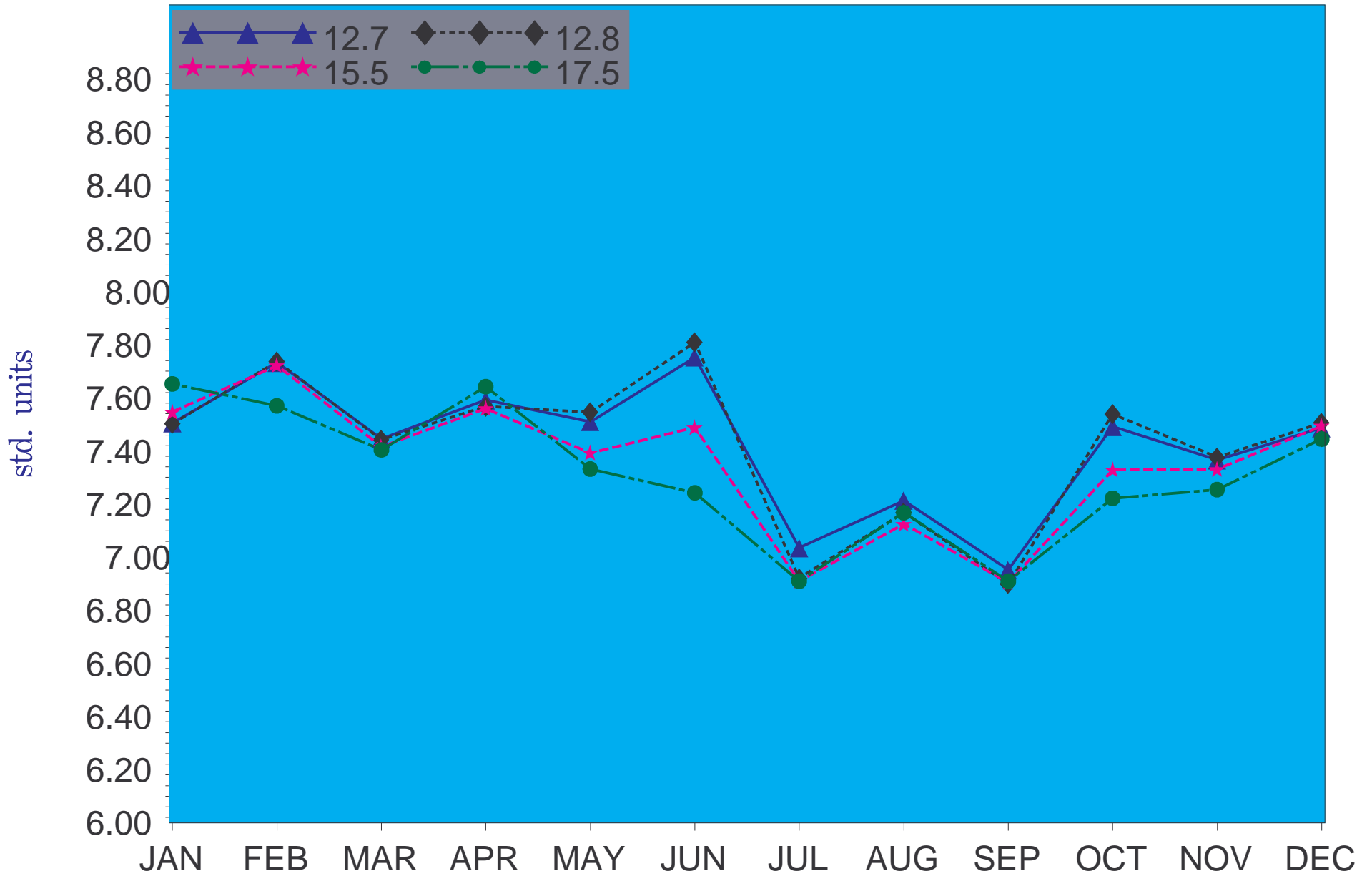


Figure 4.4b 2001 pH at River Kilometers 12.7, 12.8, 15.5 and 17.5.

pH (Field)

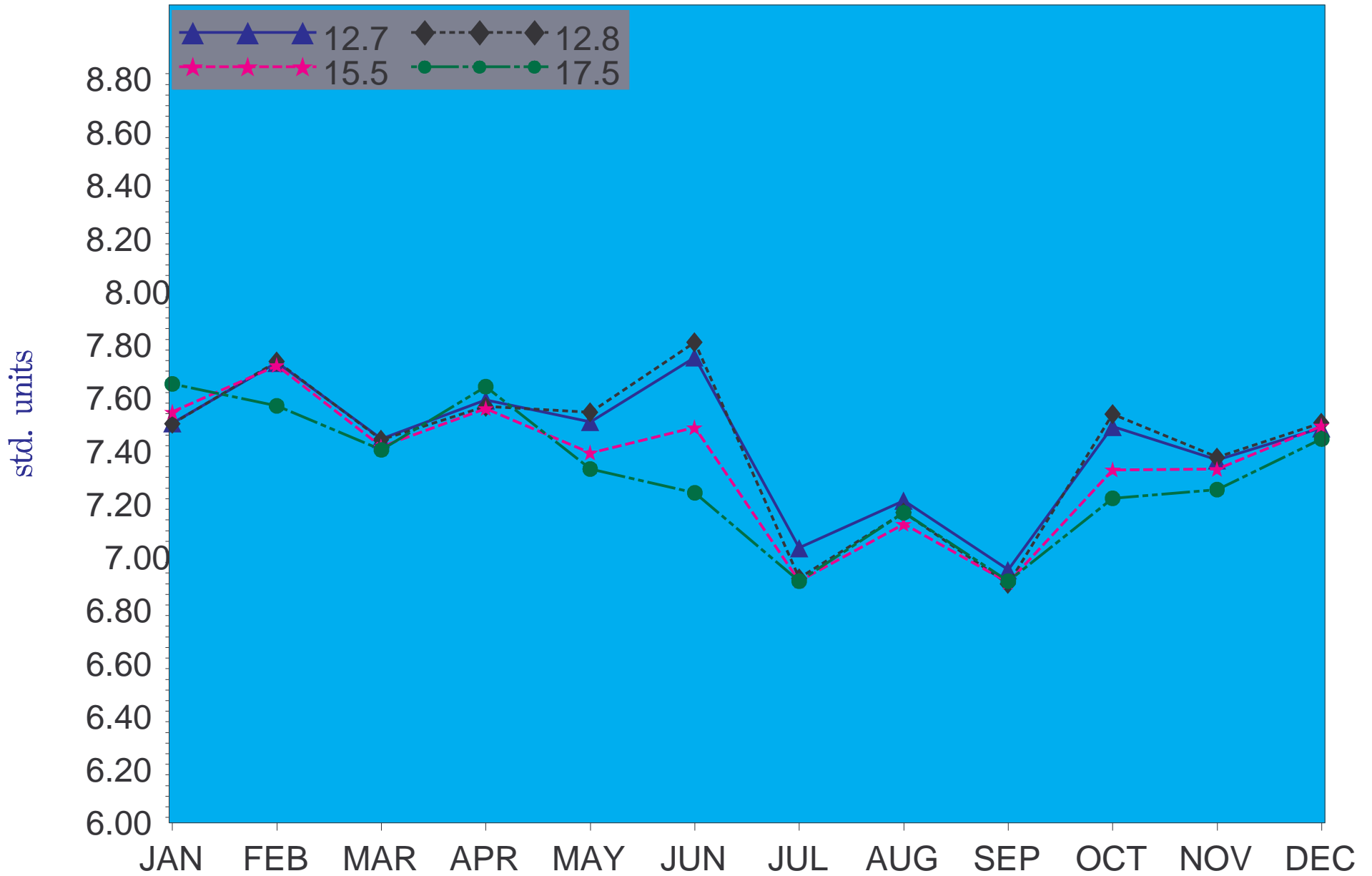


Figure 4.4b 2001 pH at River Kilometers 12.7, 12.8, 15.5 and 17.5.

pH (Field)

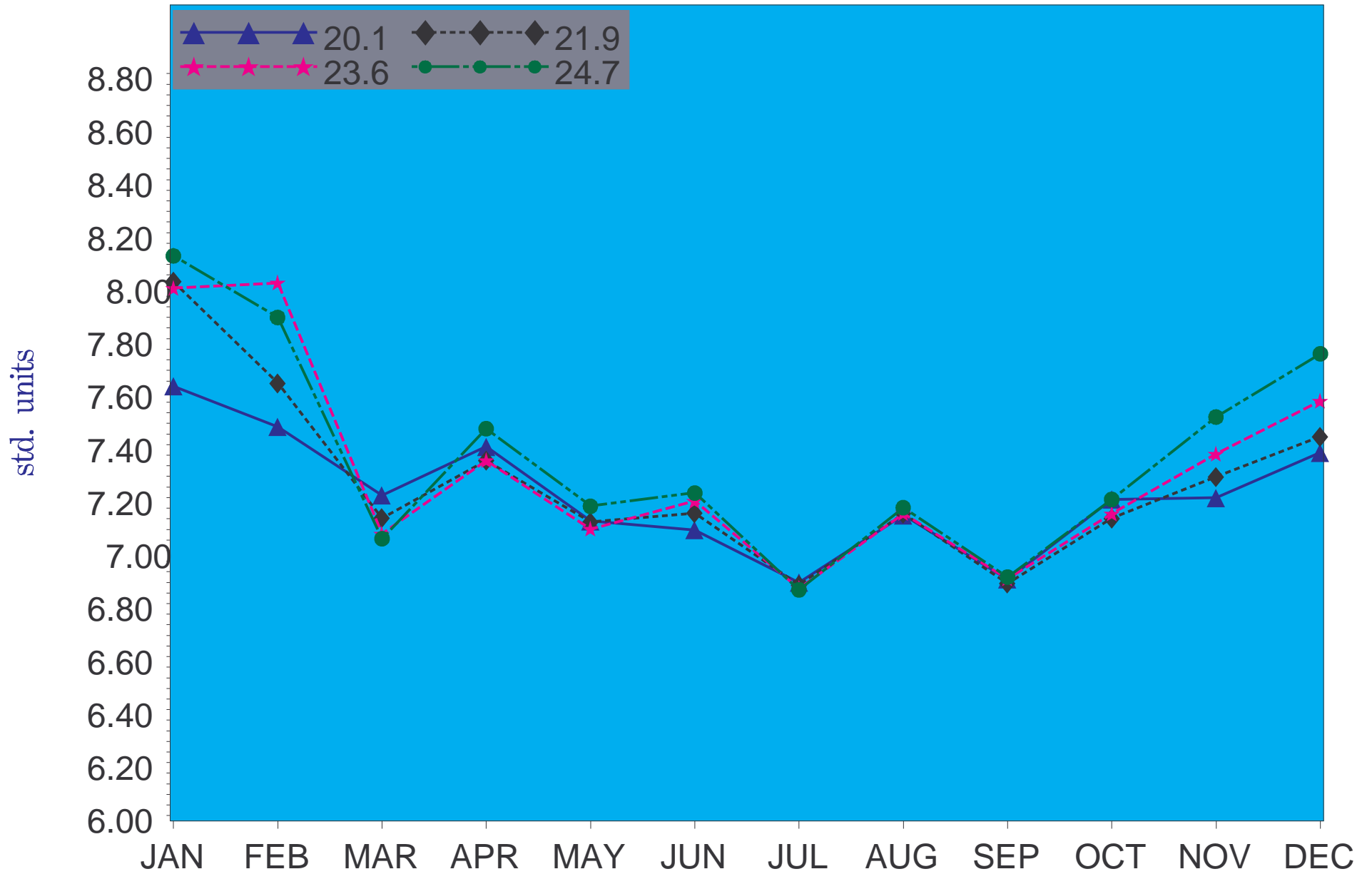


Figure 4.4c 2001 pH at River Kilometers 20.1, 21.9, 23.6 and 24.7.

pH (Field)

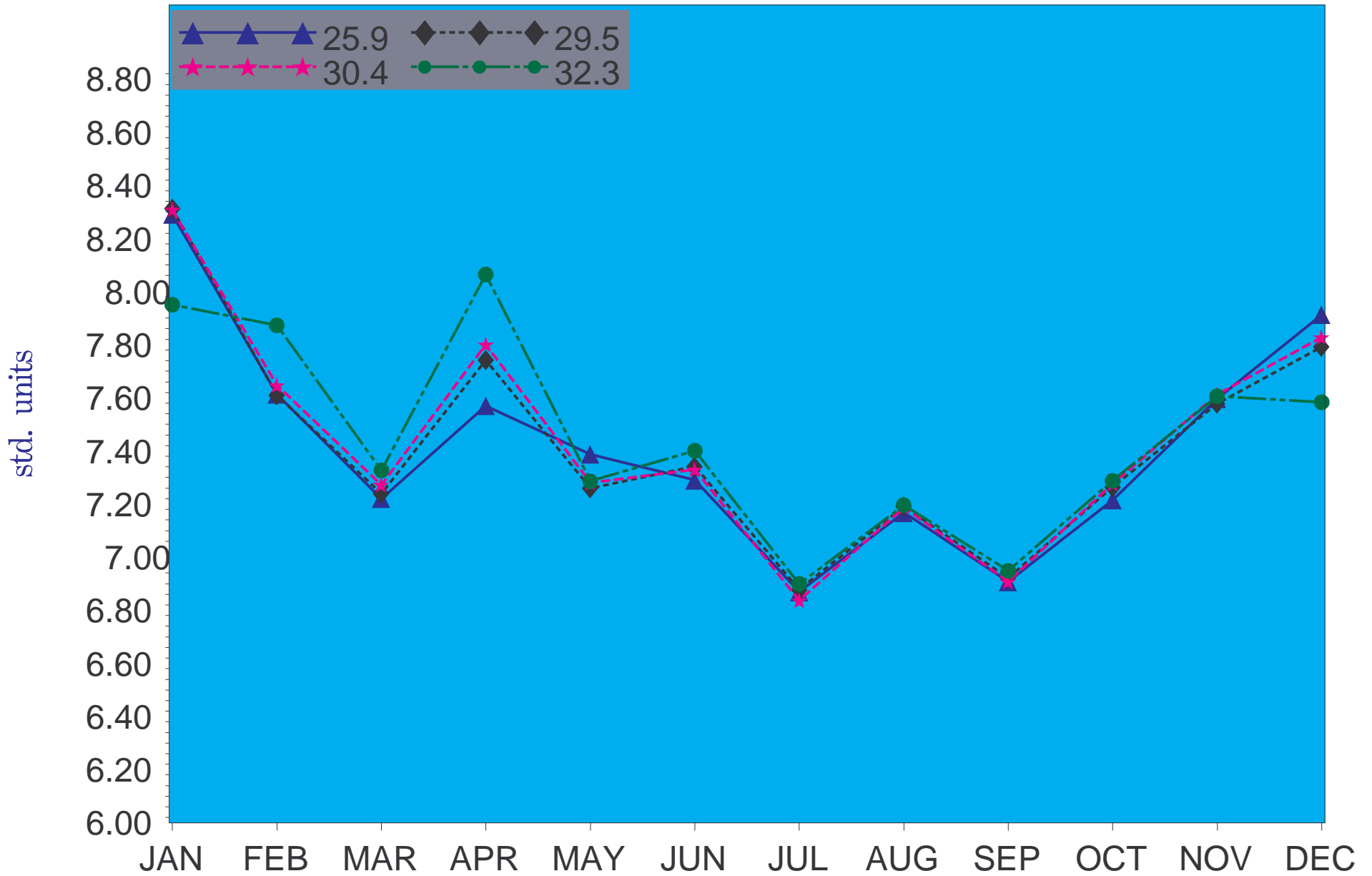


Figure 4.4d 2001 pH at River Kilometers 25.9, 29.5, 30.4 and 32.3.

Light Depth to 1% Surface

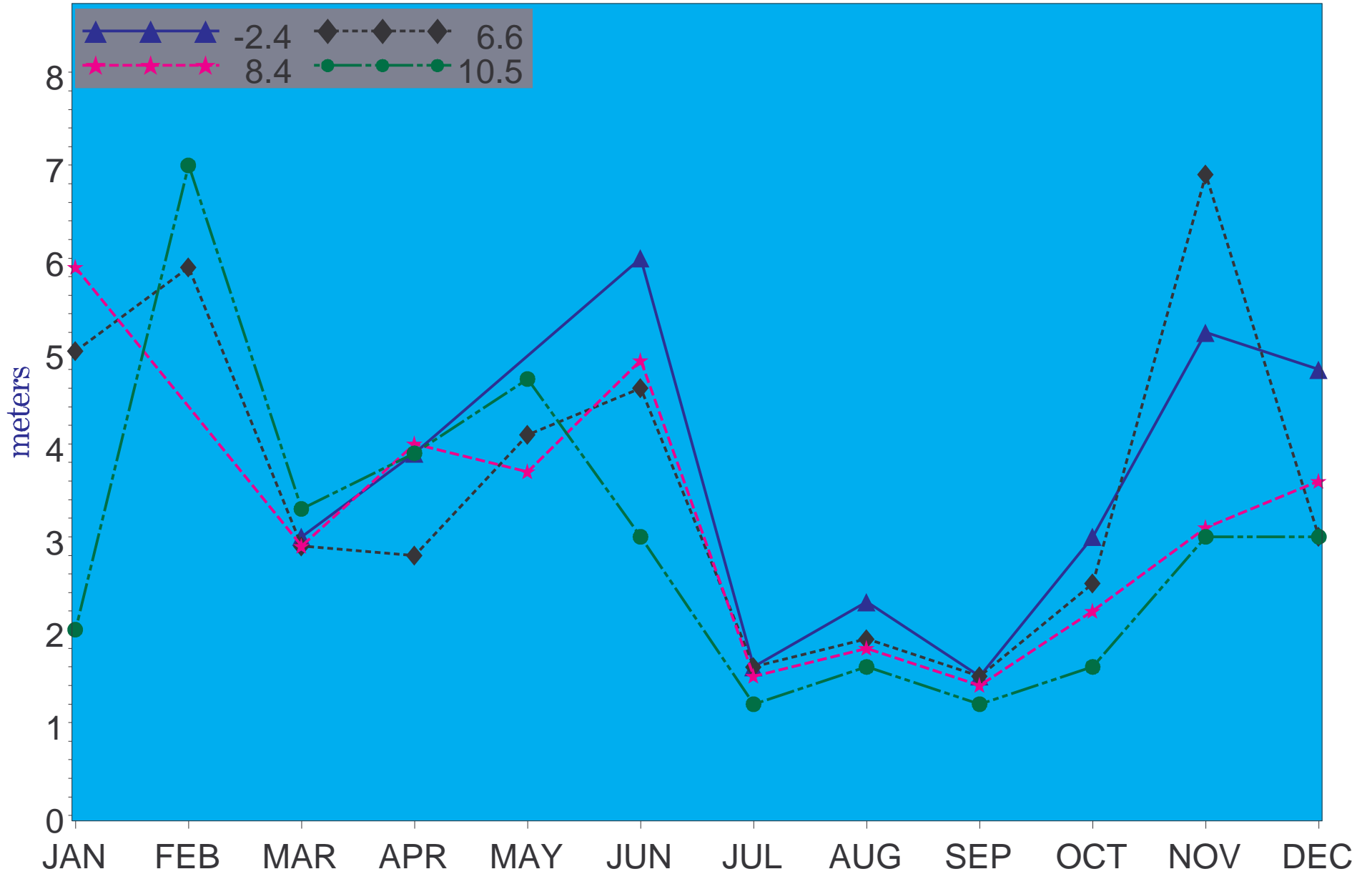


Figure 4.5a 2001 Light Depth at River Kilometers -2.4, 6.6, 8.4 and 10.5.

Light Depth to 1% Surface

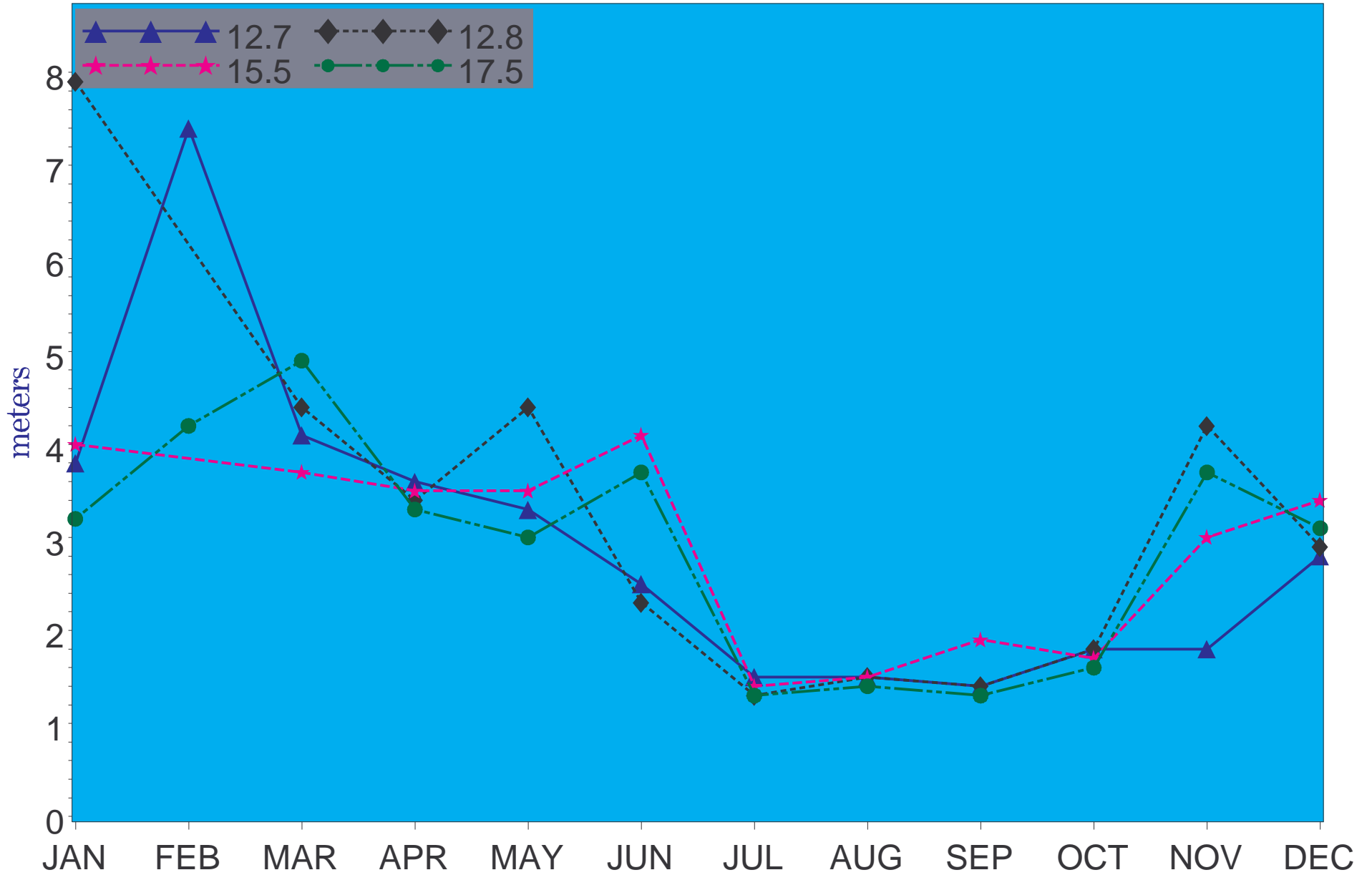


Figure 4.5b 2001 Light Depth at River Kilometers 12.7, 12.8, 15.5 and 17.5.

Light Depth to 1% Surface

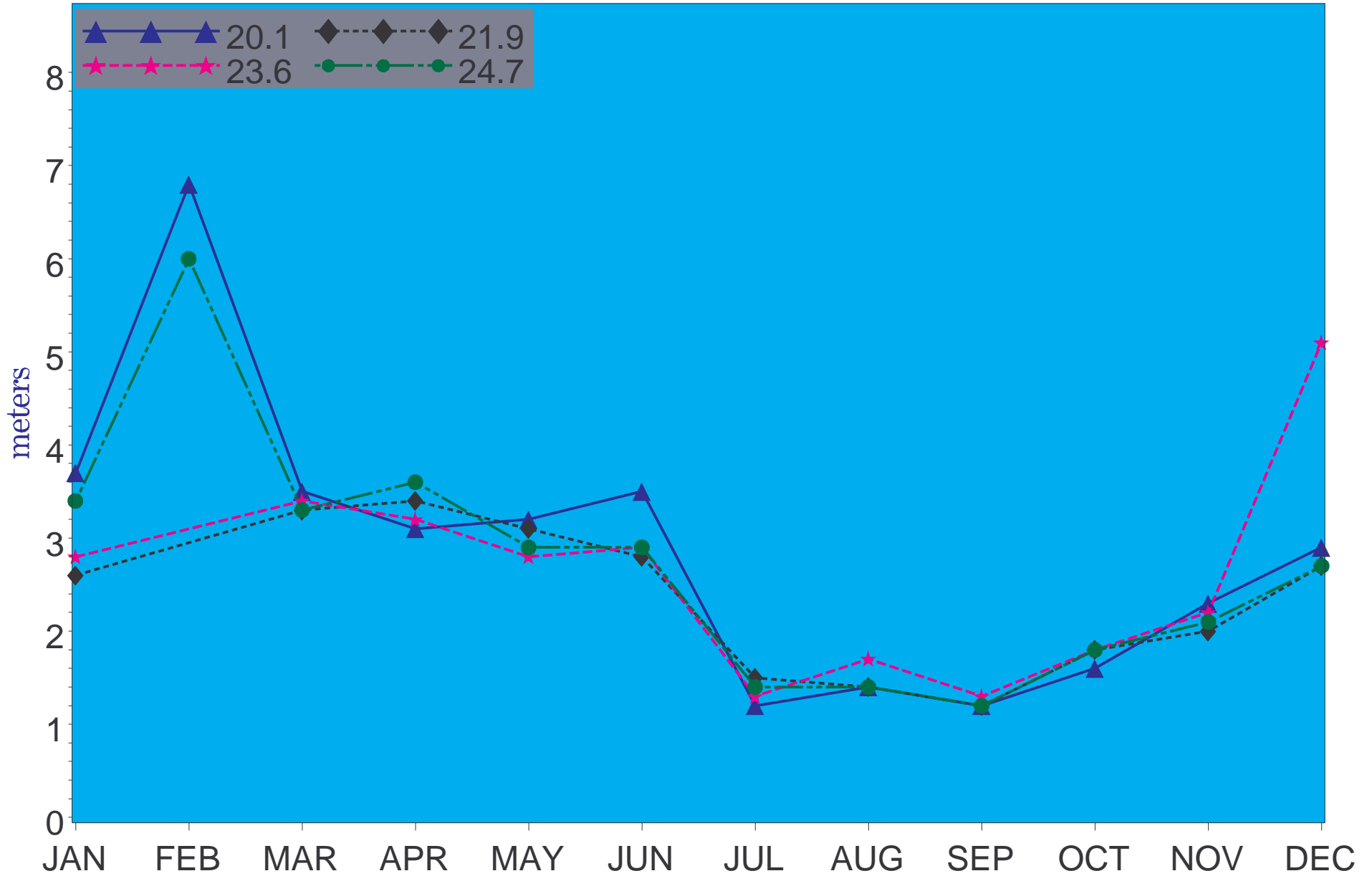


Figure 4.5c 2001 Light Depth at River Kilometers 20.1, 21.9, 23.6 and 24.7.

Light Depth to 1% Surface

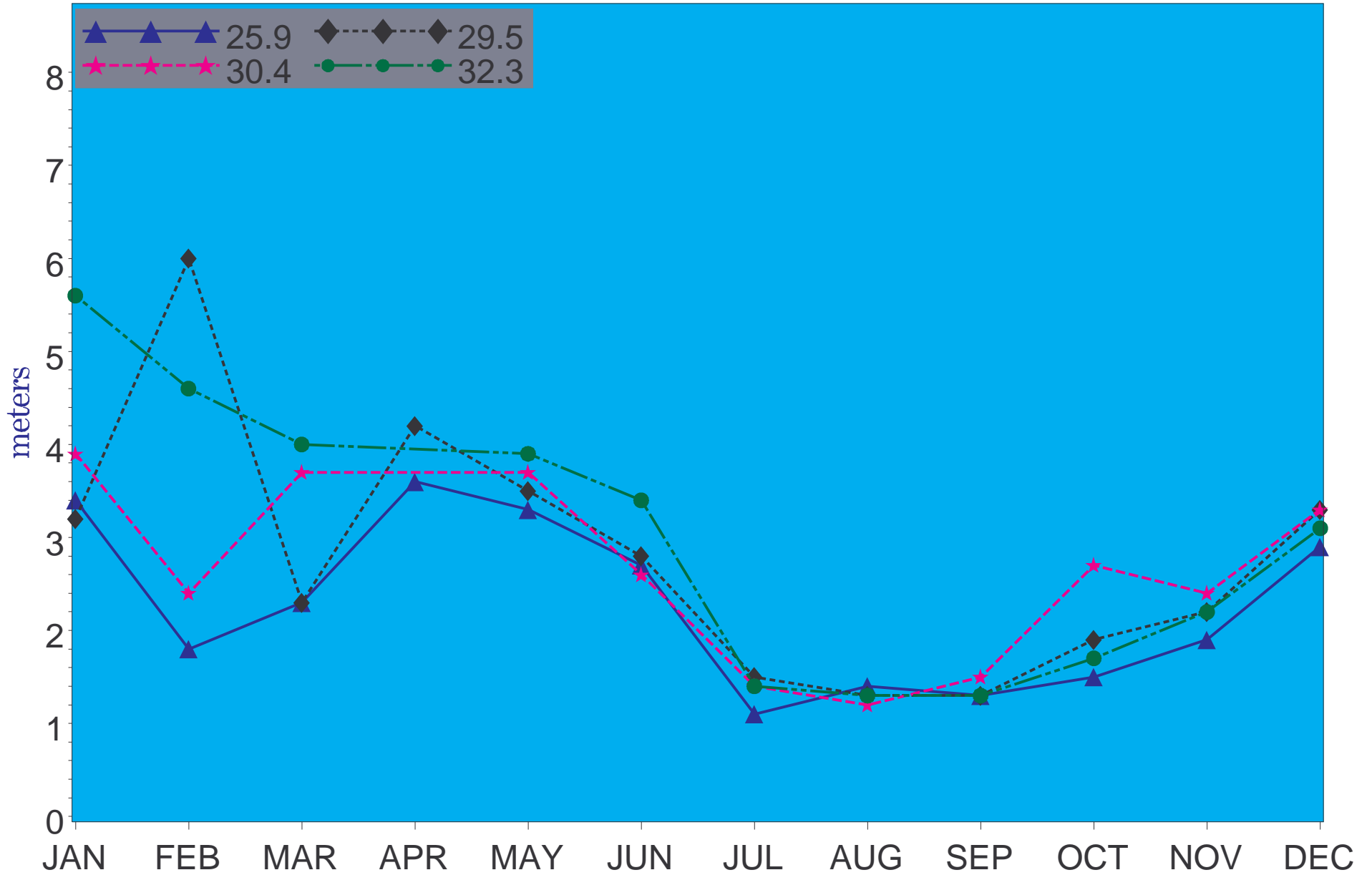


Figure 4.5d 2001 Light Depth at River Kilometers 25.9, 29.5, 30.4 and 32.3.

Specific Conductance

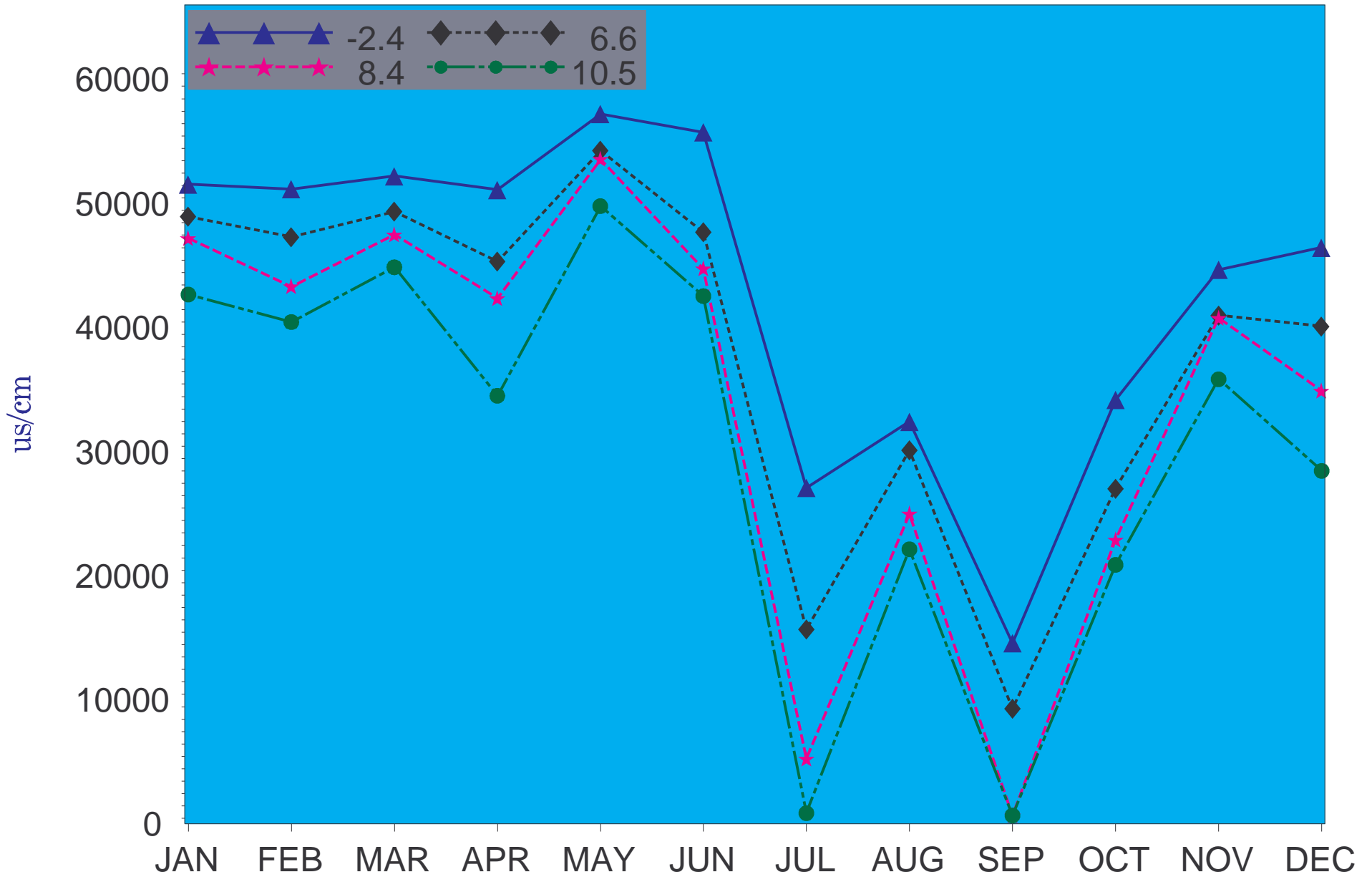


Figure 4.6a 2001 Specific Conductance at River Kilometers -2.4, 6.6, 8.4 and 10.5.

Specific Conductance

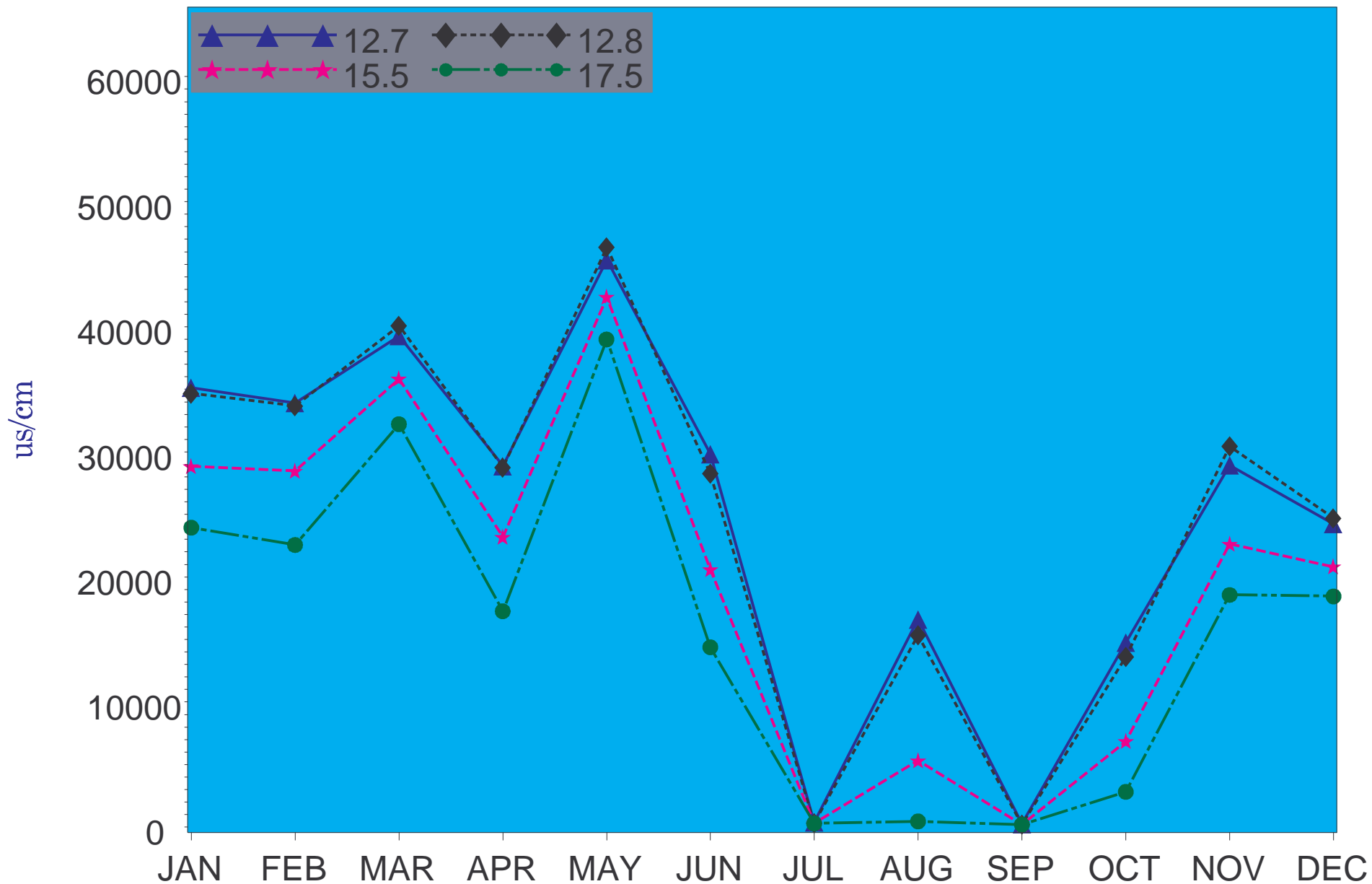


Figure 4.6b 2001 Specific Conductance at River Kilometers 12.7, 12.8, 15.5 and 17.5.

Specific Conductance

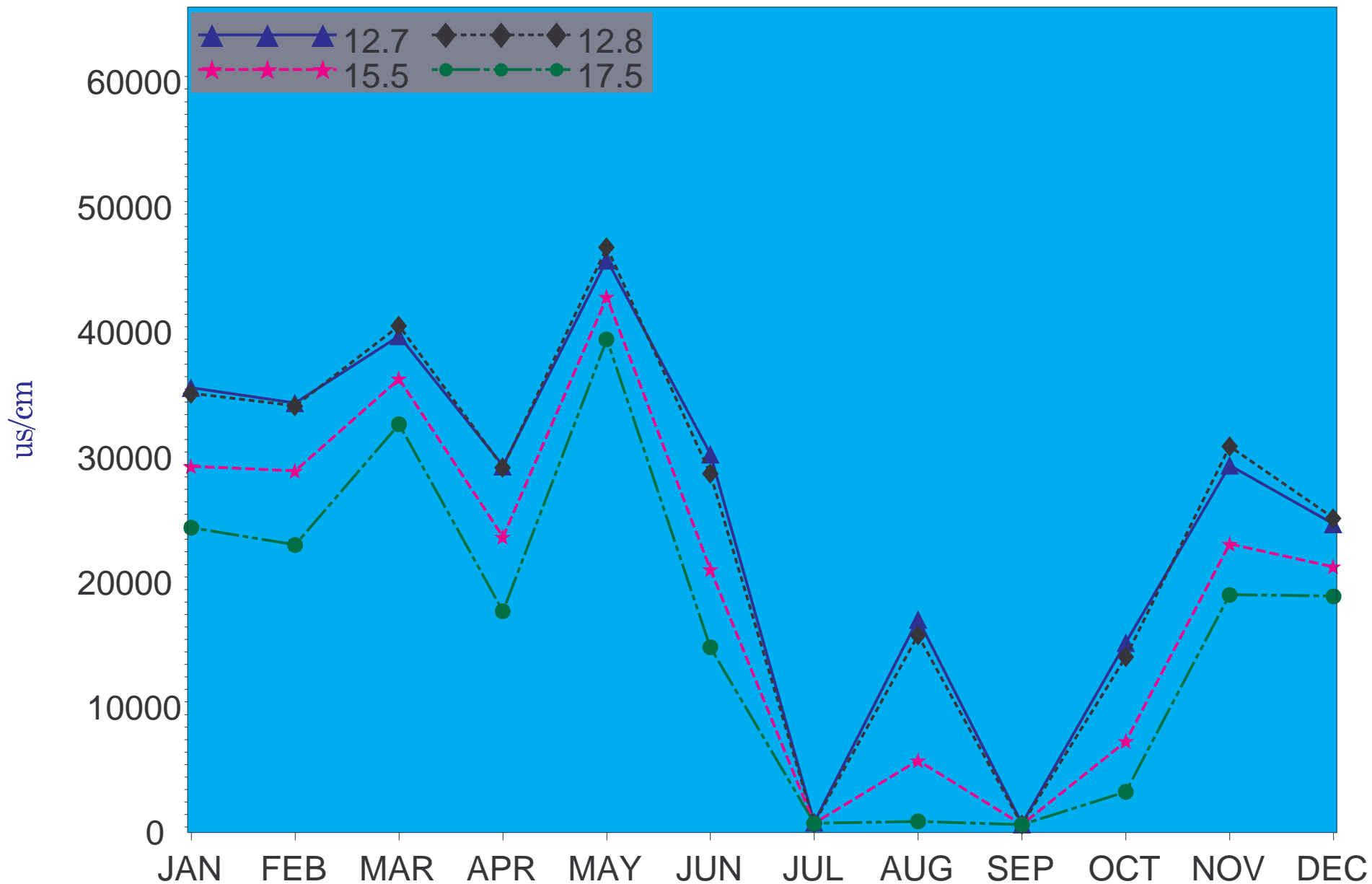


Figure 4.6b 2001 Specific Conductance at River Kilometers 12.7, 12.8, 15.5 and 17.5.

Specific Conductance

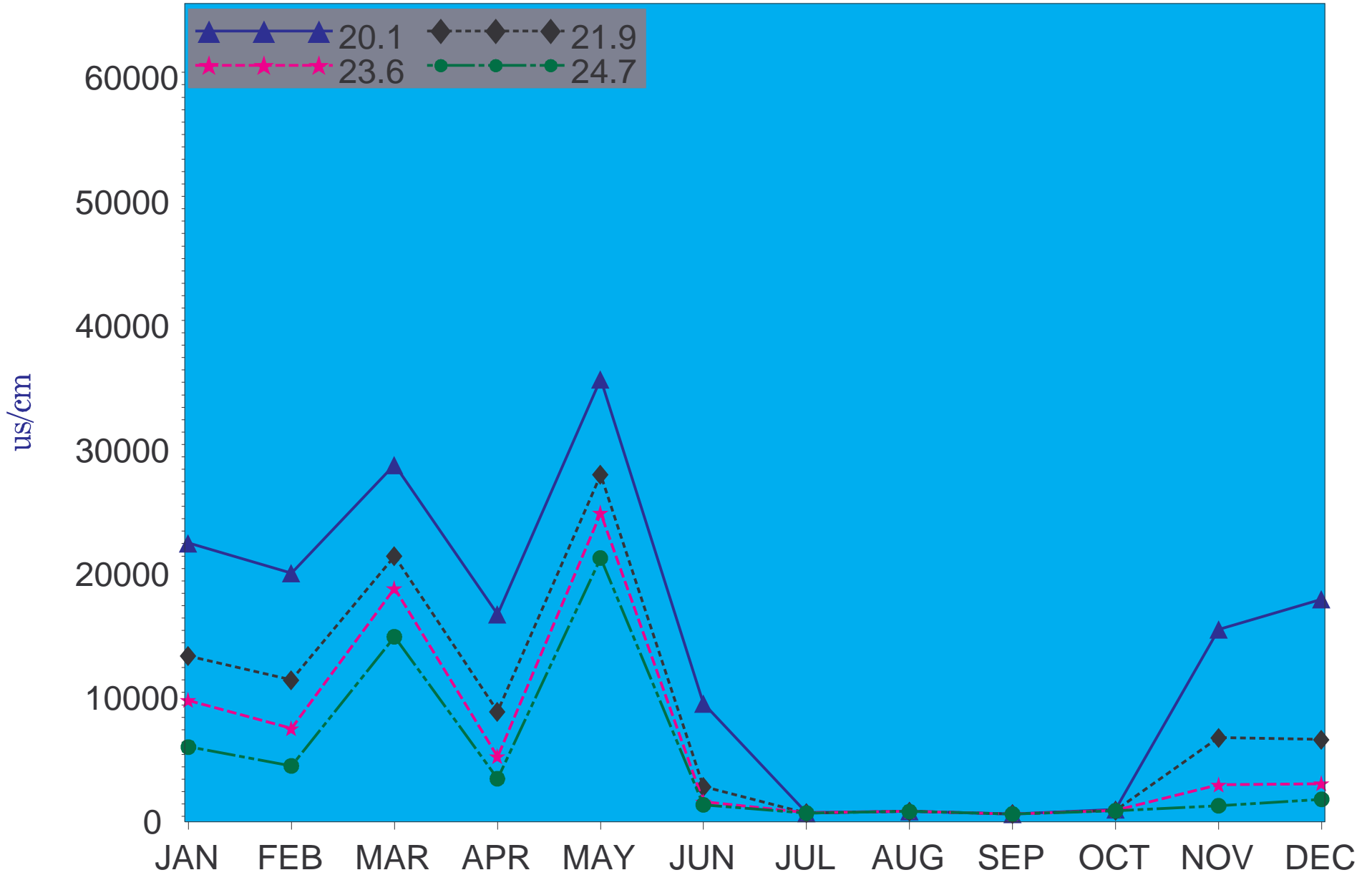


Figure 4.6c 2001 Specific Conductance at River Kilometers 20.1, 21.9, 23.6 and 24.7.

Specific Conductance

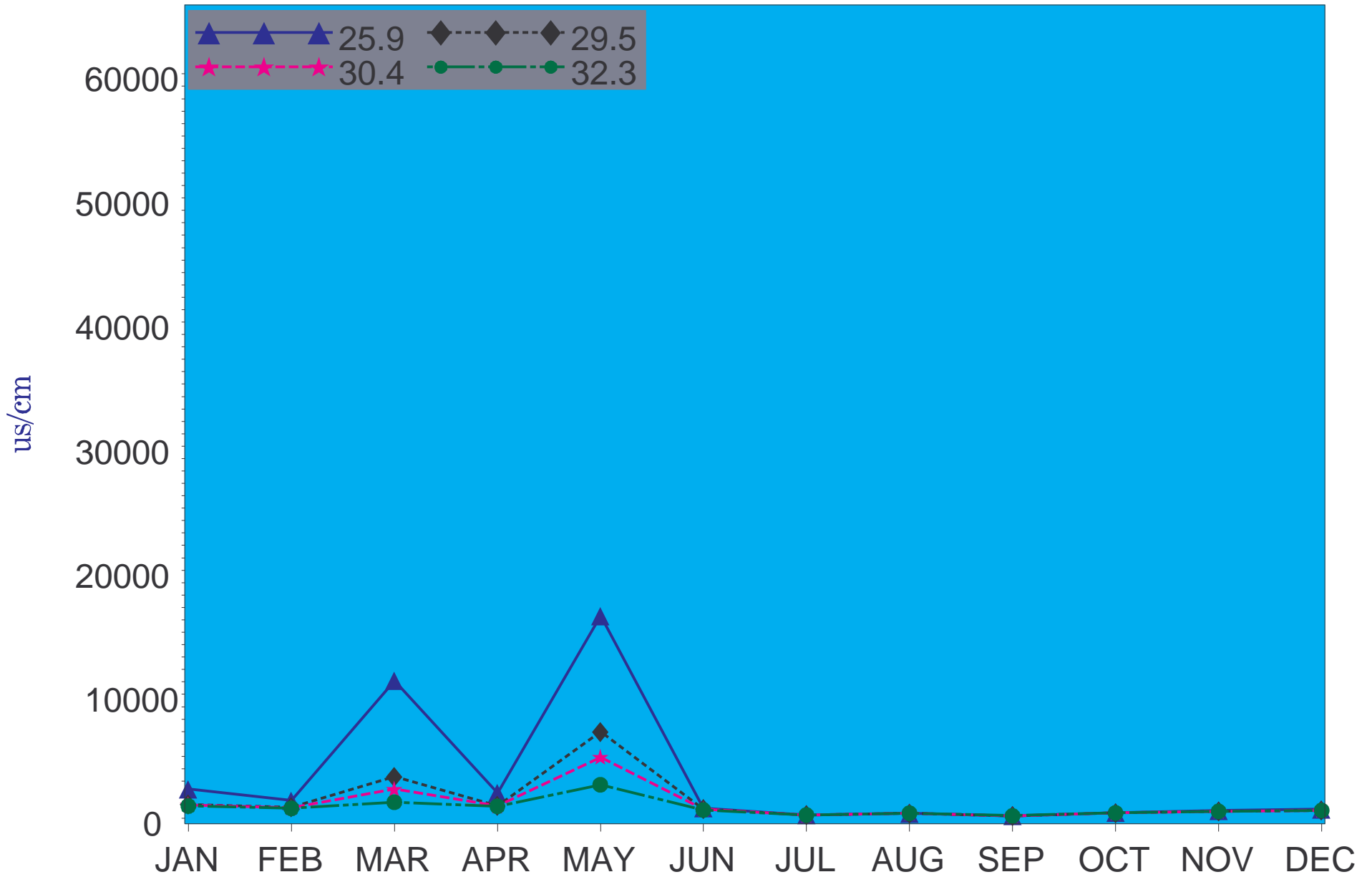


Figure 4.6d 2001 Specific Conductance at River Kilometers 25.9, 29.5, 30.4 and 32.3.

Color - Subsurface

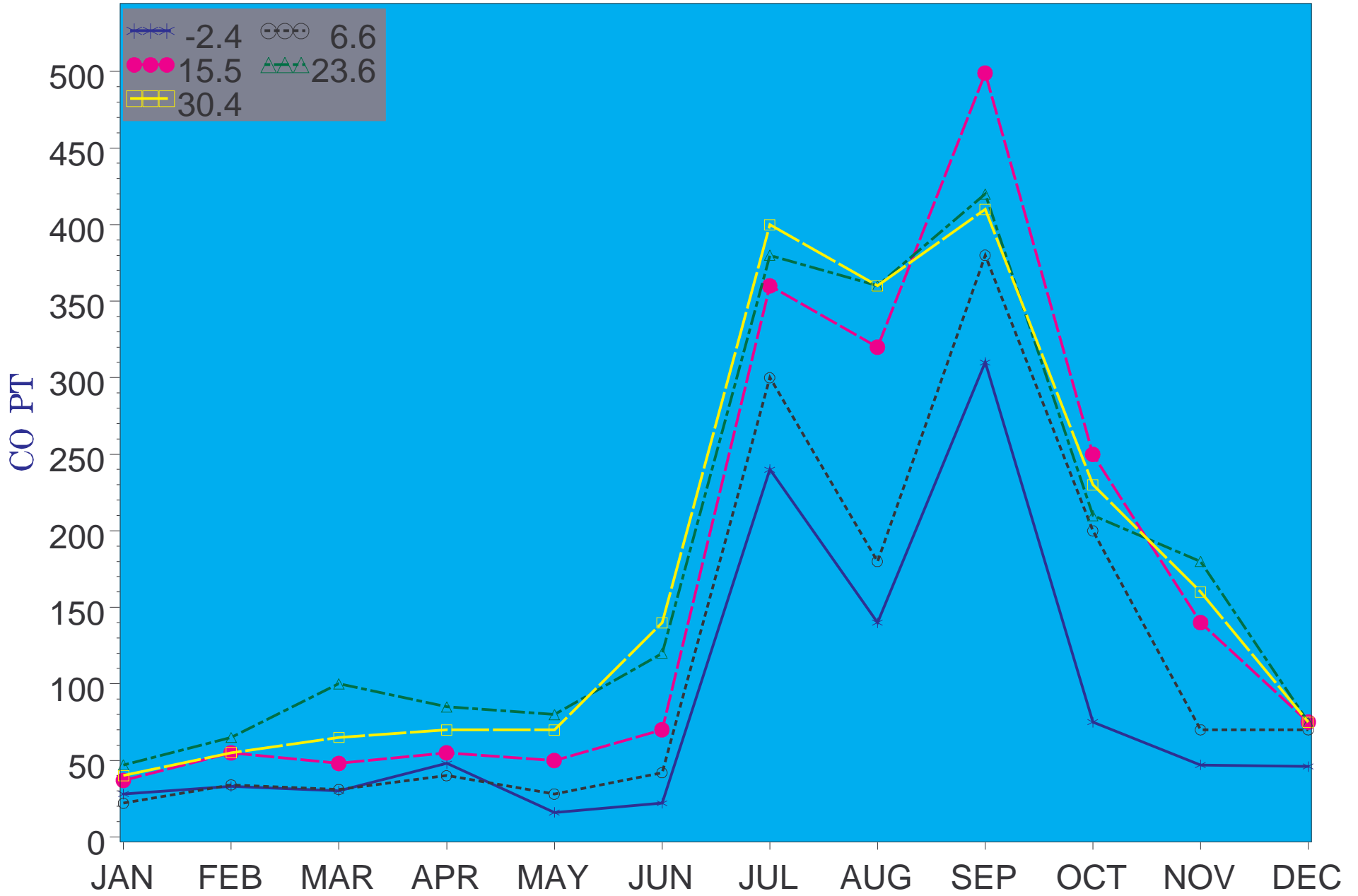


Figure 4.7a Color at fixed sampling stations (2001).

Color - Near Bottom

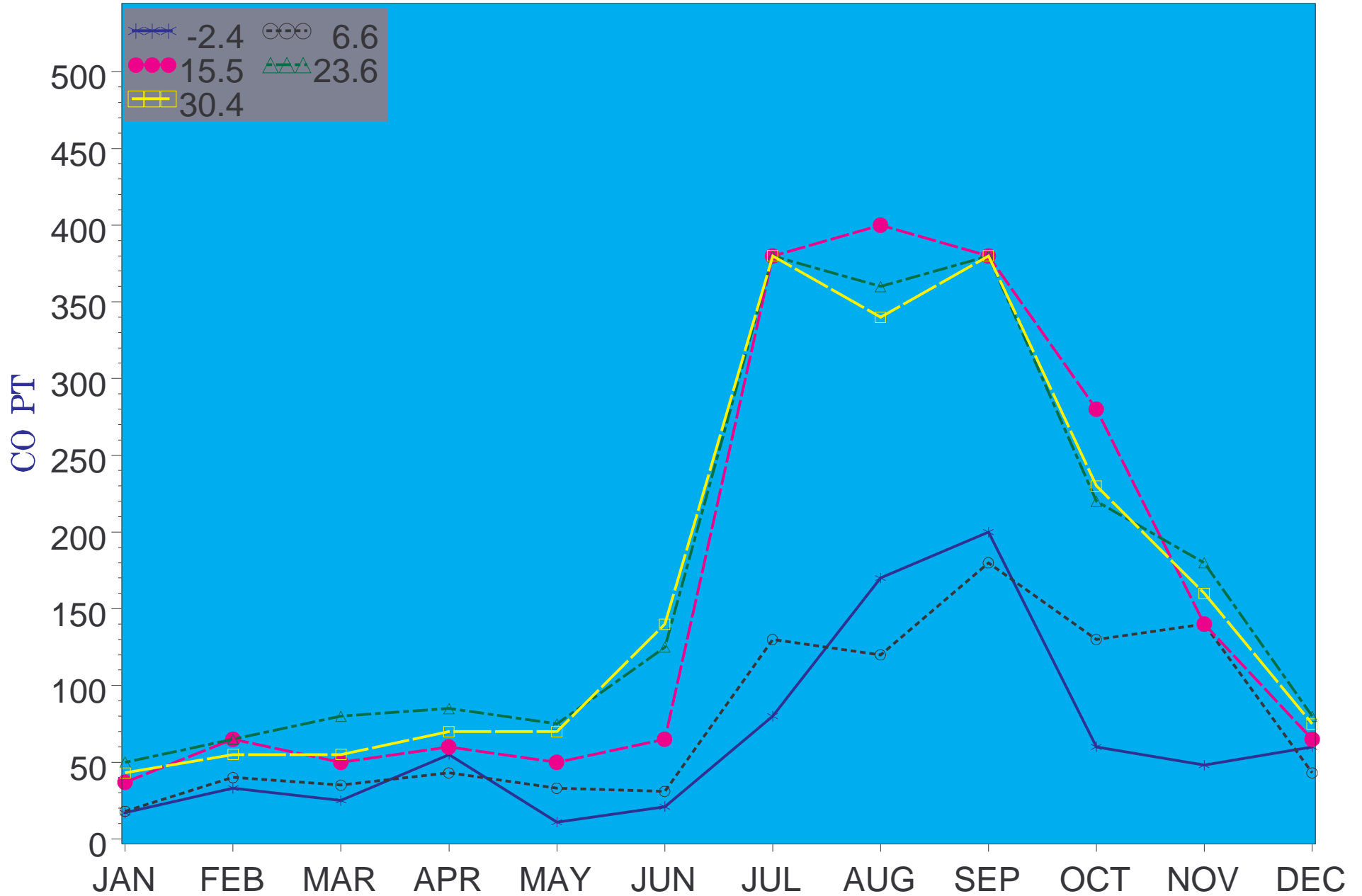


Figure 4.7b Color at fixed sampling stations (2001).

Turbidity - Subsurface

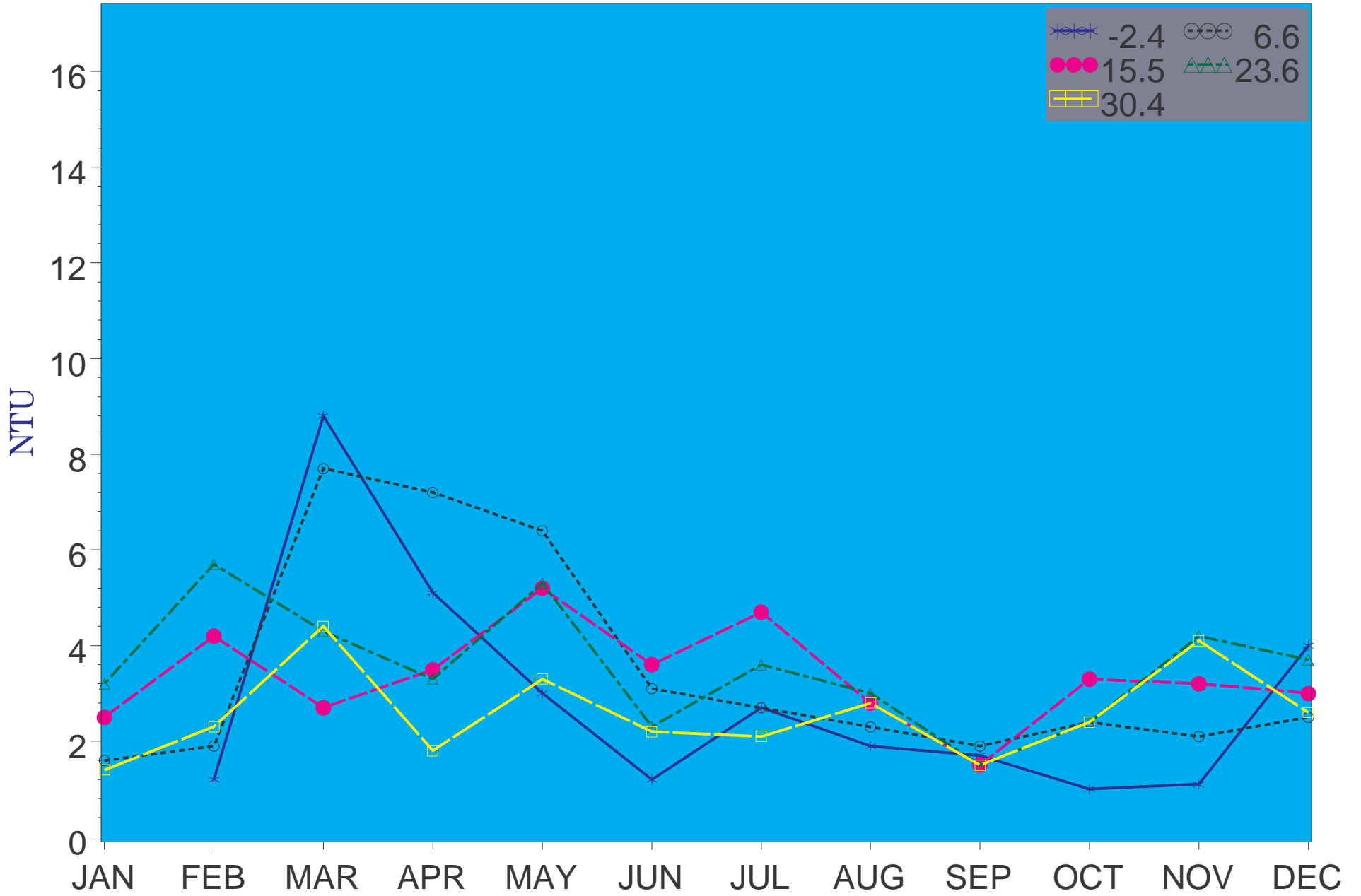


Figure 4.8a Turbidity at fixed sampling stations (2001).

Turbidity - Near Bottom

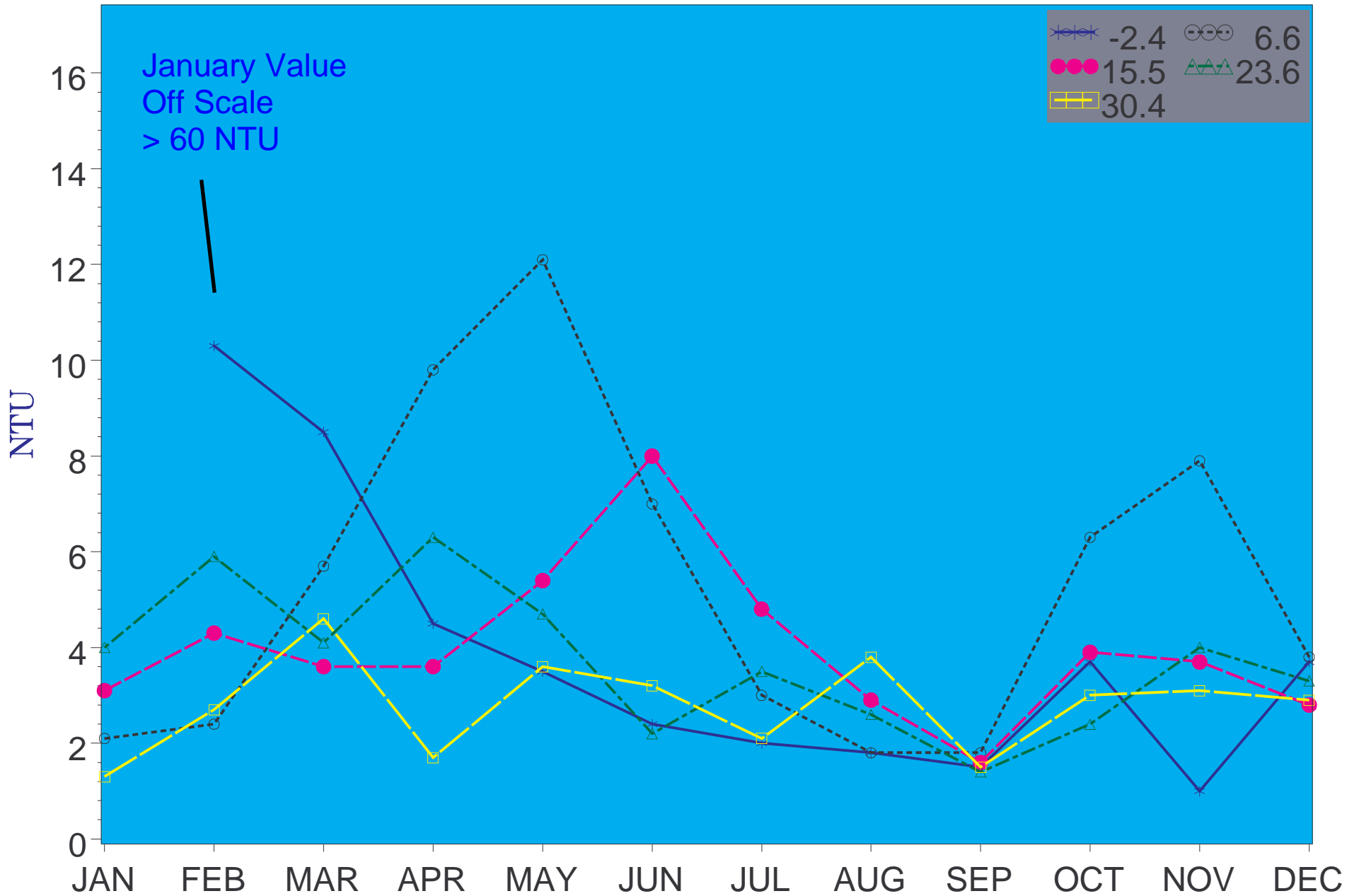


Figure 4.8b Turbidity at fixed sampling stations (2001).

Total Suspended Solids - Subsurface

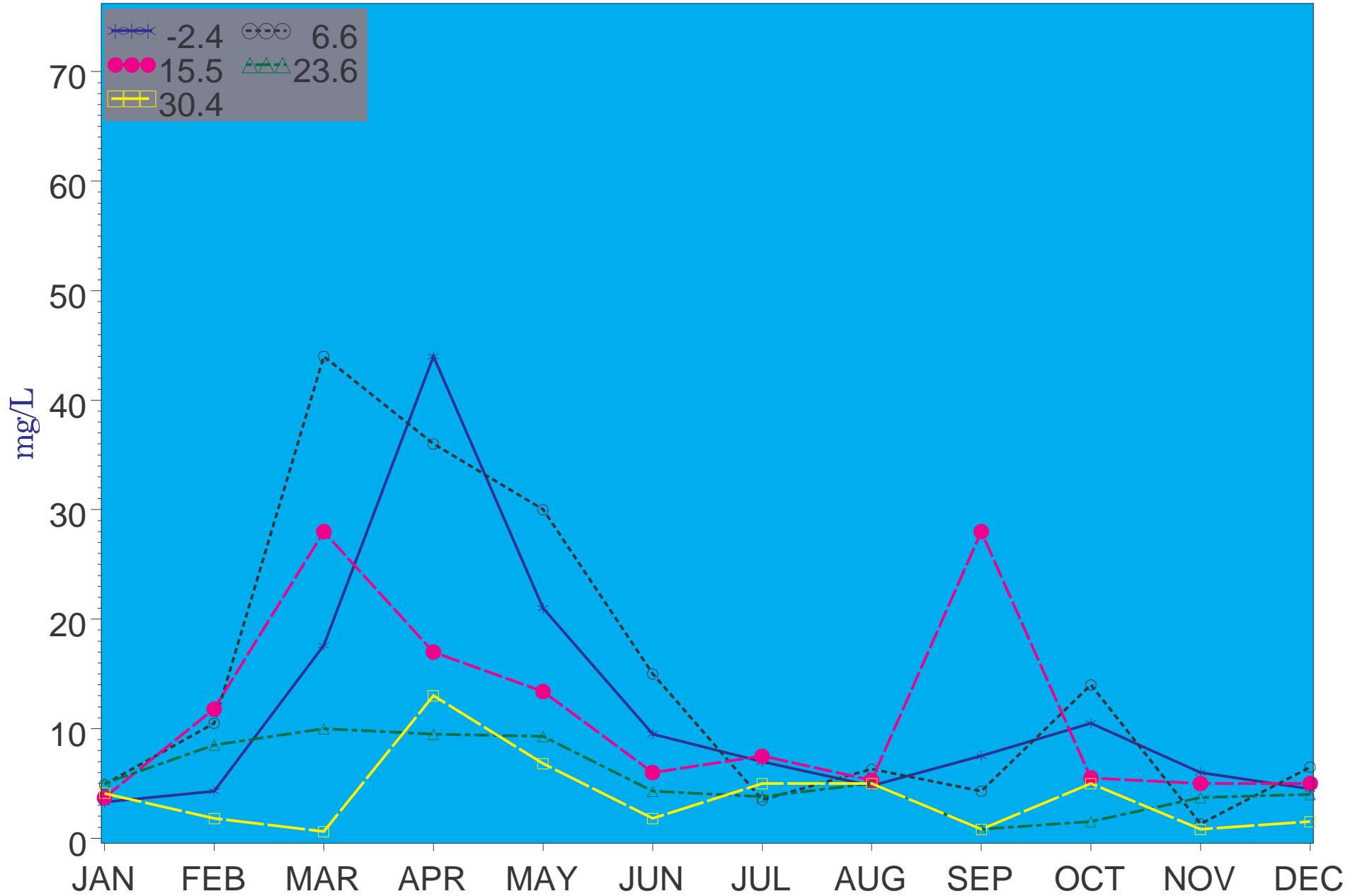


Figure 4.9a Total Suspended Solids at fixed sampling stations (2001).

Total Suspended Solids - Near Bottom

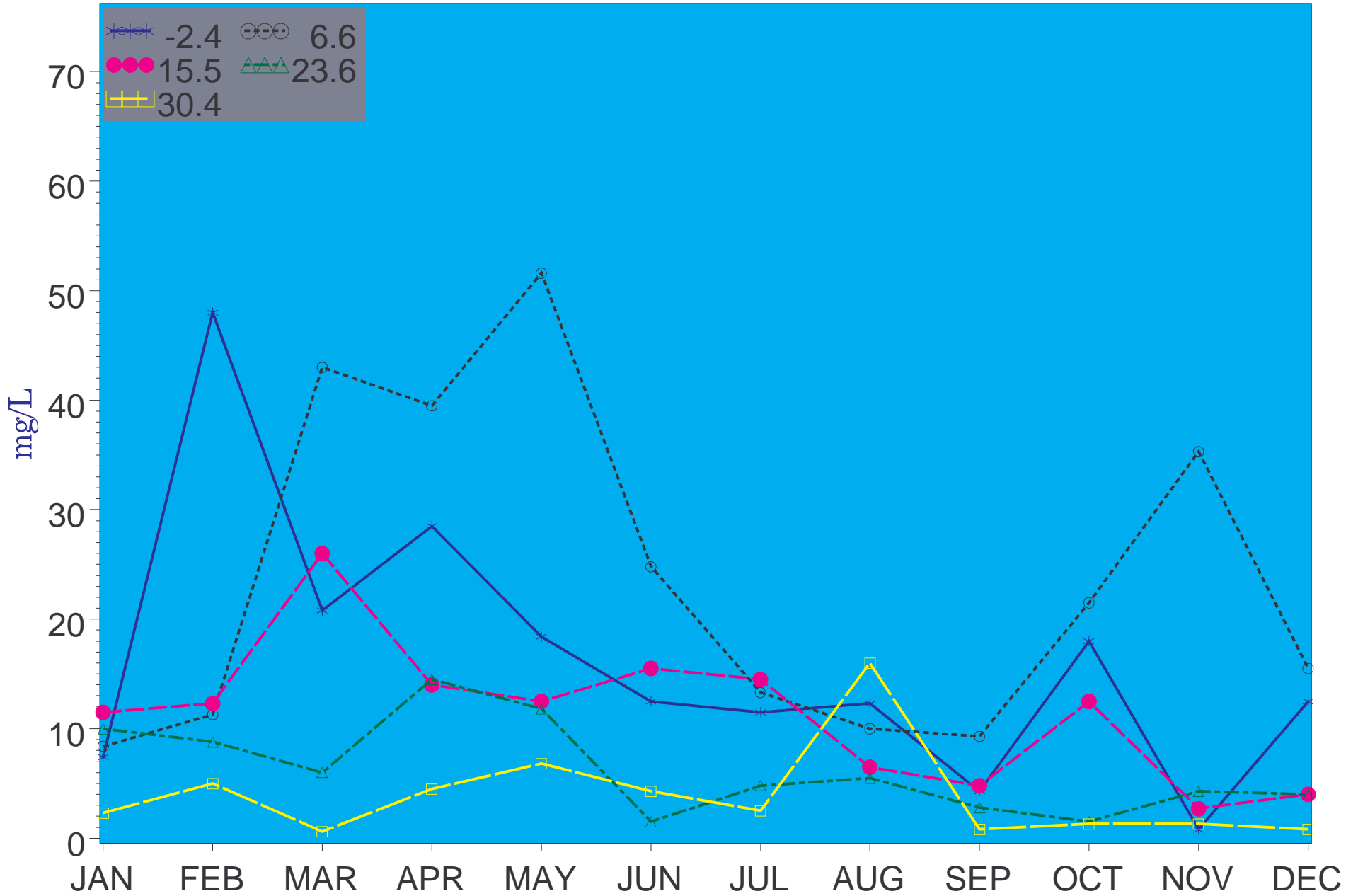


Figure 4.9b Total Suspended Solids at fixed sampling stations (2001).

NO2/NO3 - Subsurface

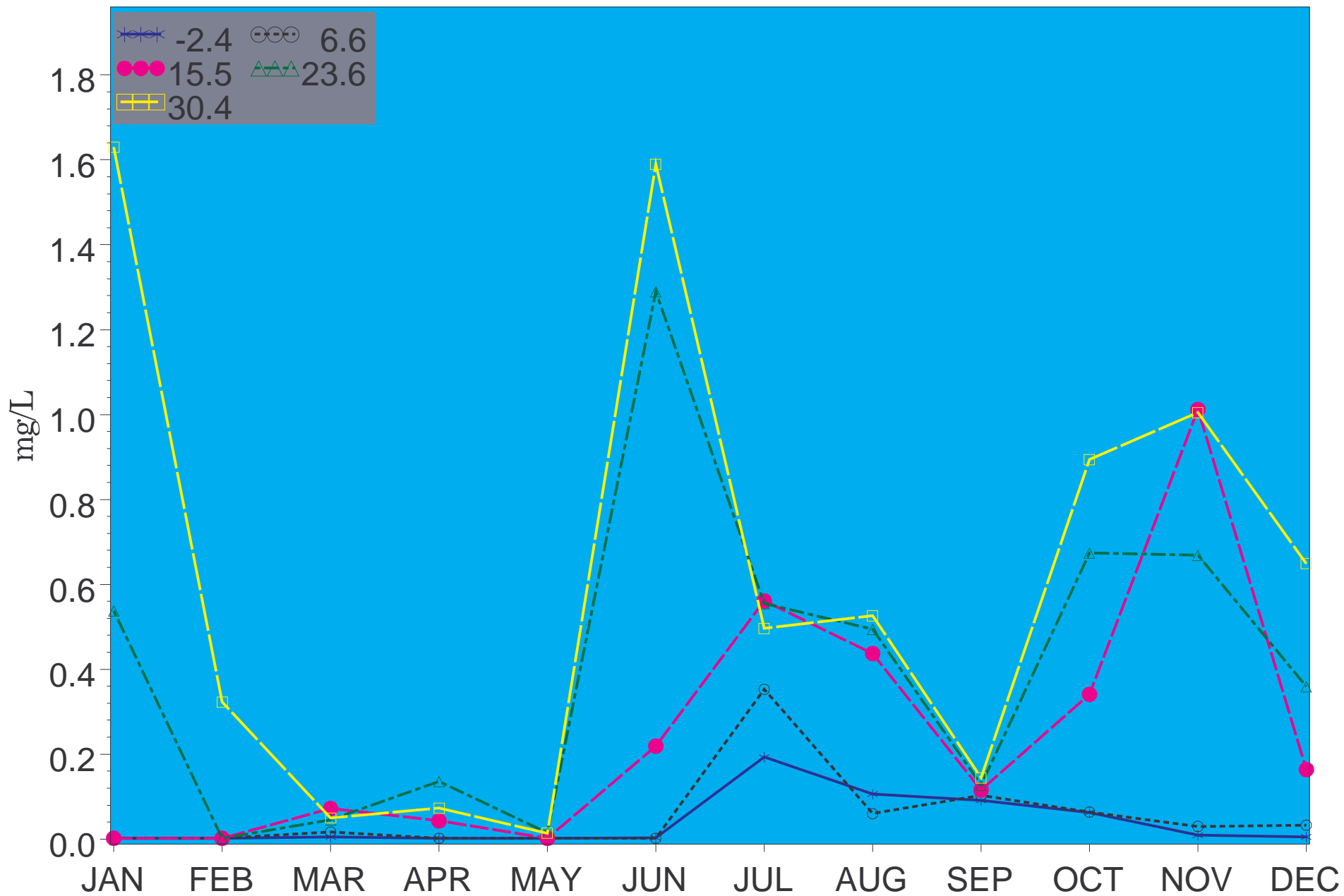


Figure 4.10a Nitrite/Nitrate at fixed sampling stations (2001).

NO₂/NO₃ - Near Bottom

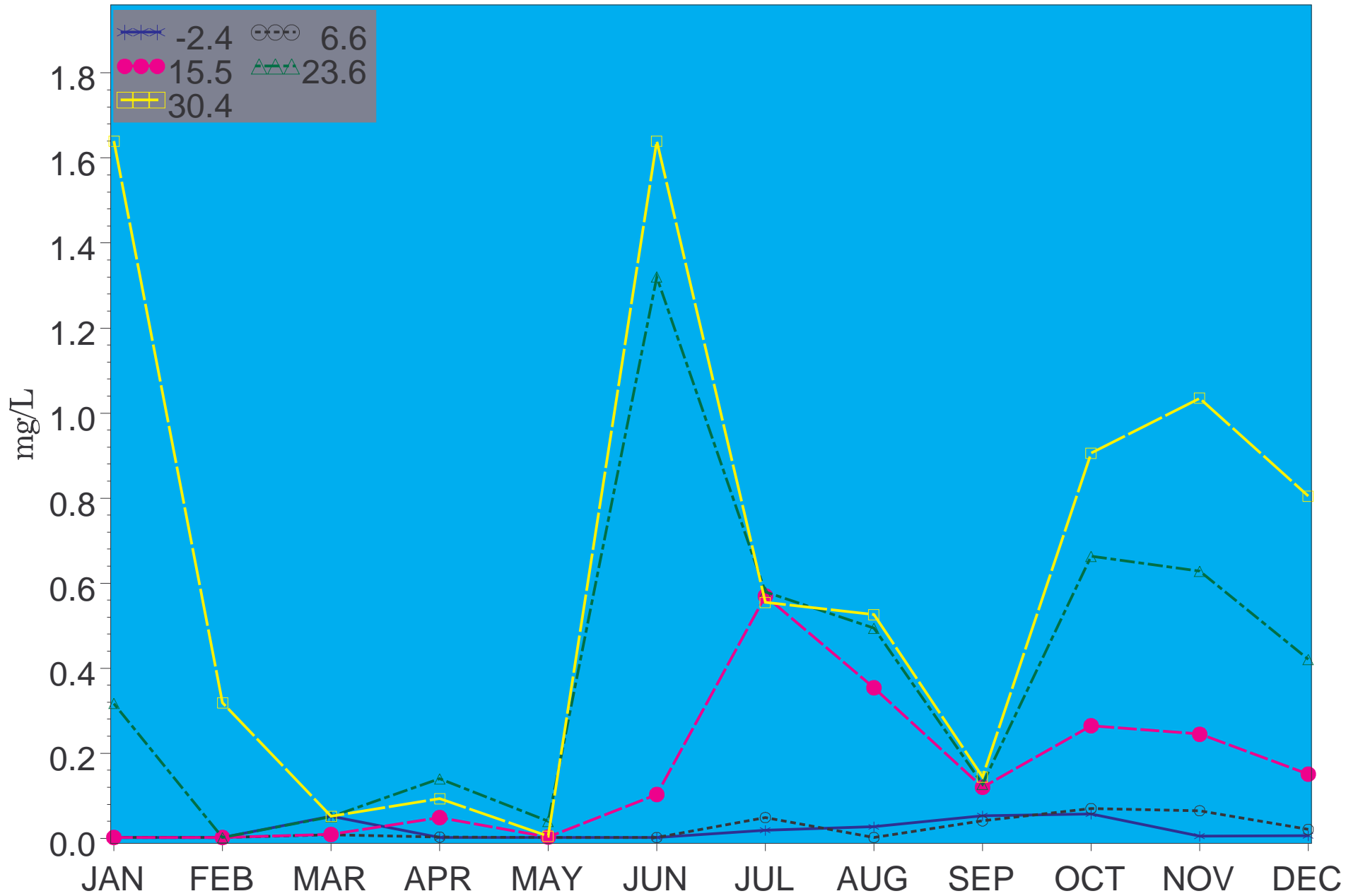


Figure 4.10b Nitrite/Nitrate at fixed sampling stations (2001).

Total Kjeldahl Nitrogen - Subsurface

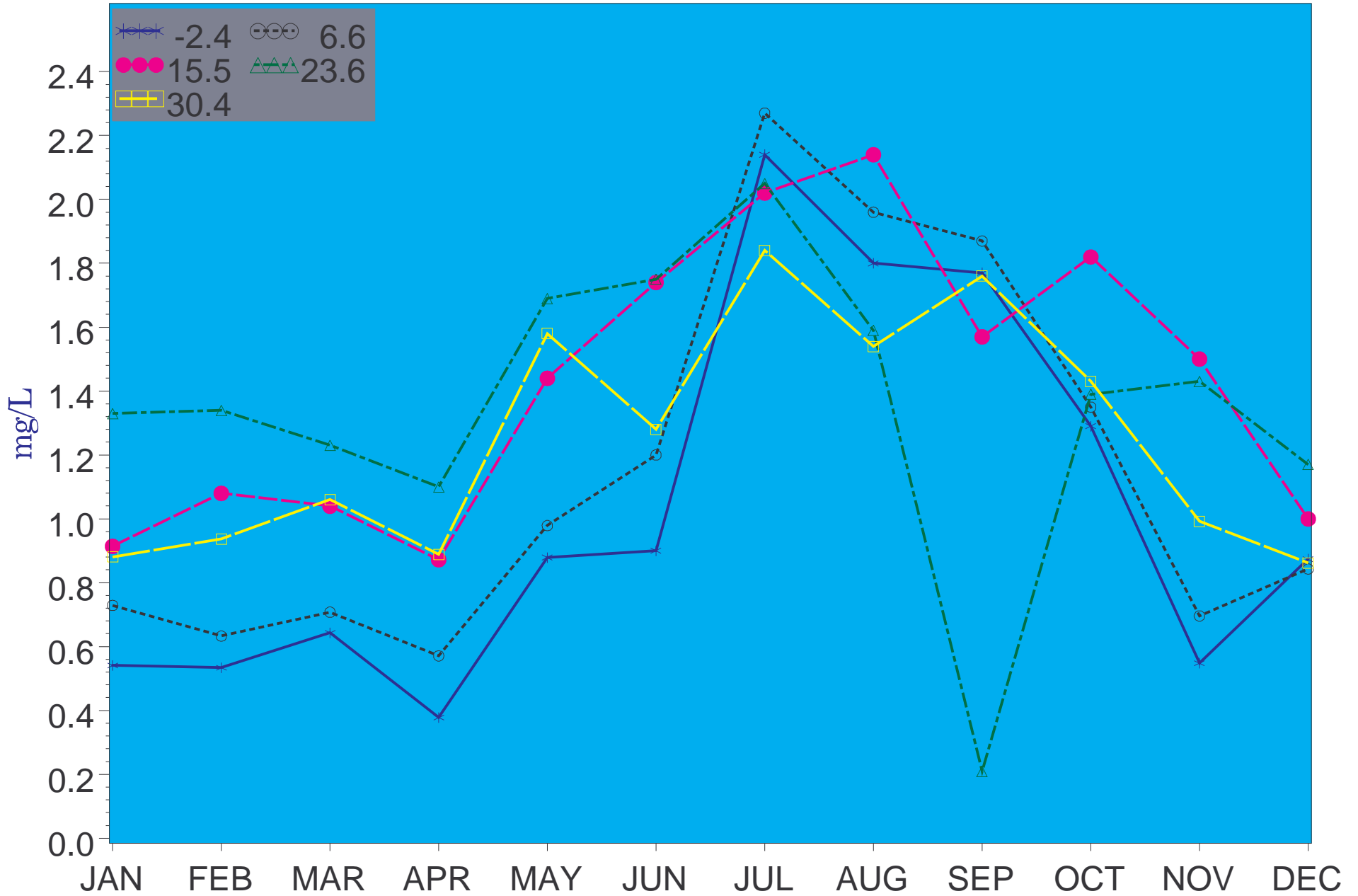


Figure 4.11a Total Kjeldahl Nitrogen at fixed sampling stations (2001).

Total Kjeldahl Nitrogen - Near Bottom

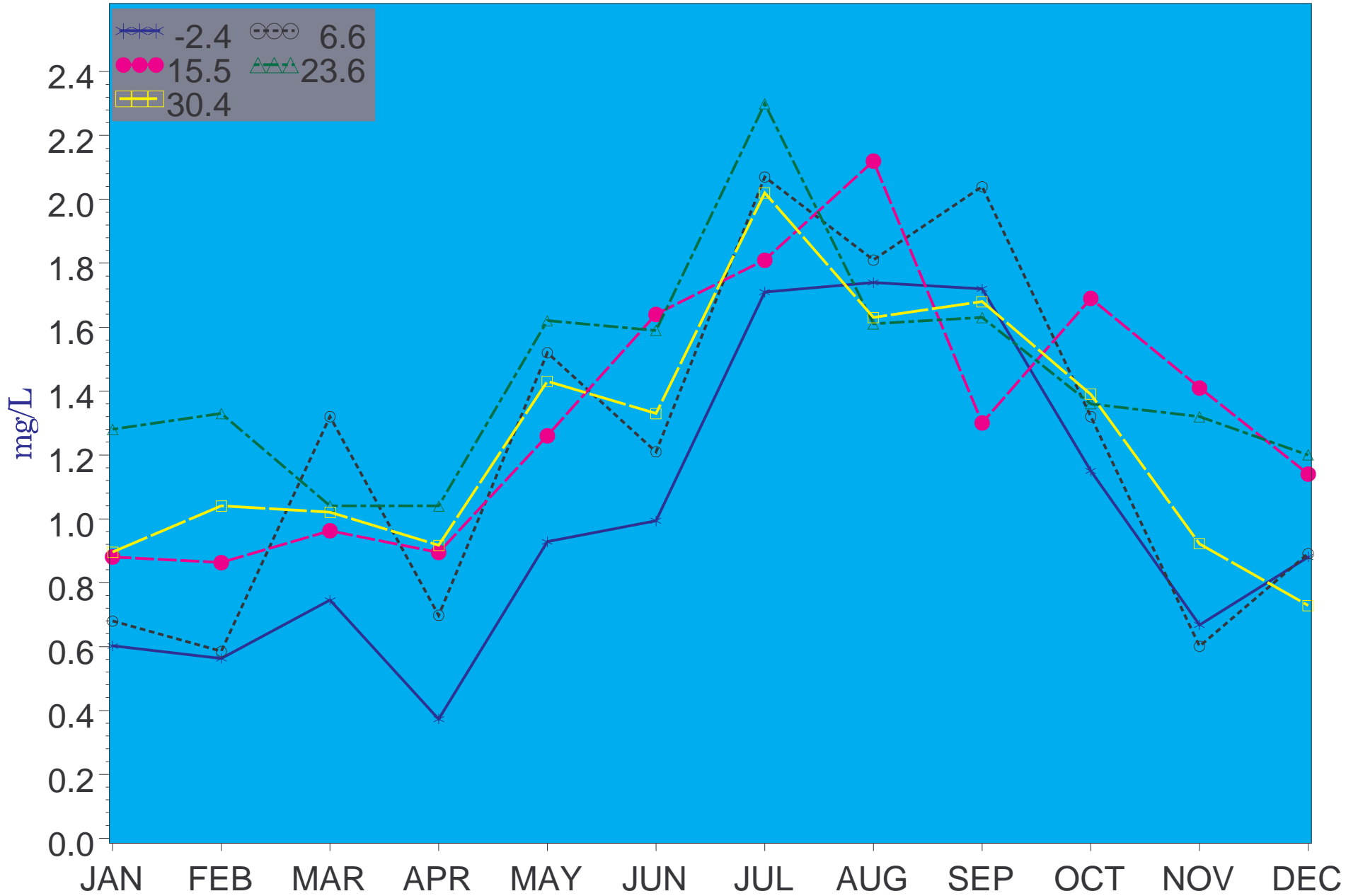


Figure 4.11b Total Kjeldahl Nitrogen at fixed sampling stations (2001).

Total Phosphorus - Subsurface

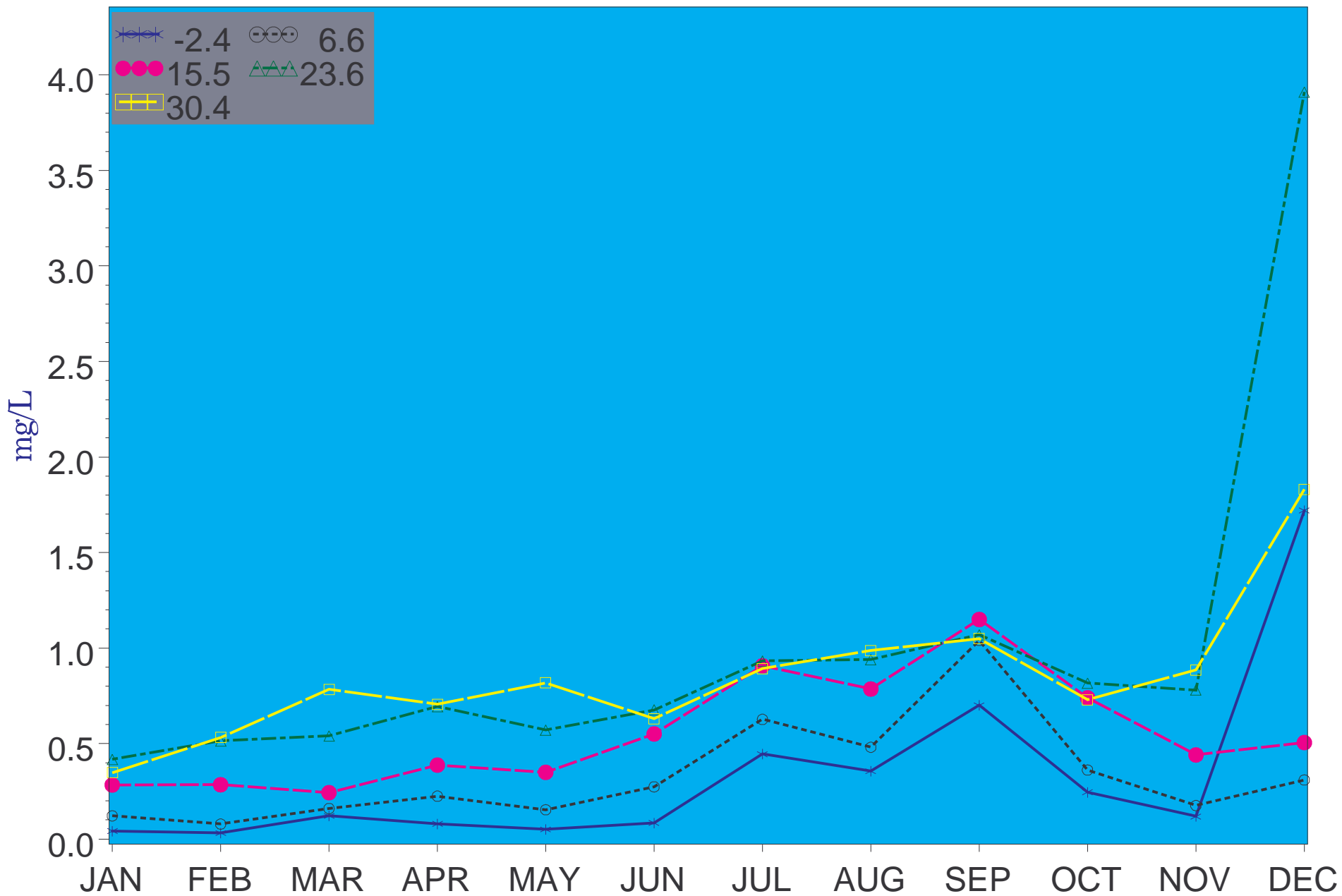


Figure 4.12a 2000 Total Phosphorus at fixed sampling stations (2001).

Total Phosphorus - Near Bottom

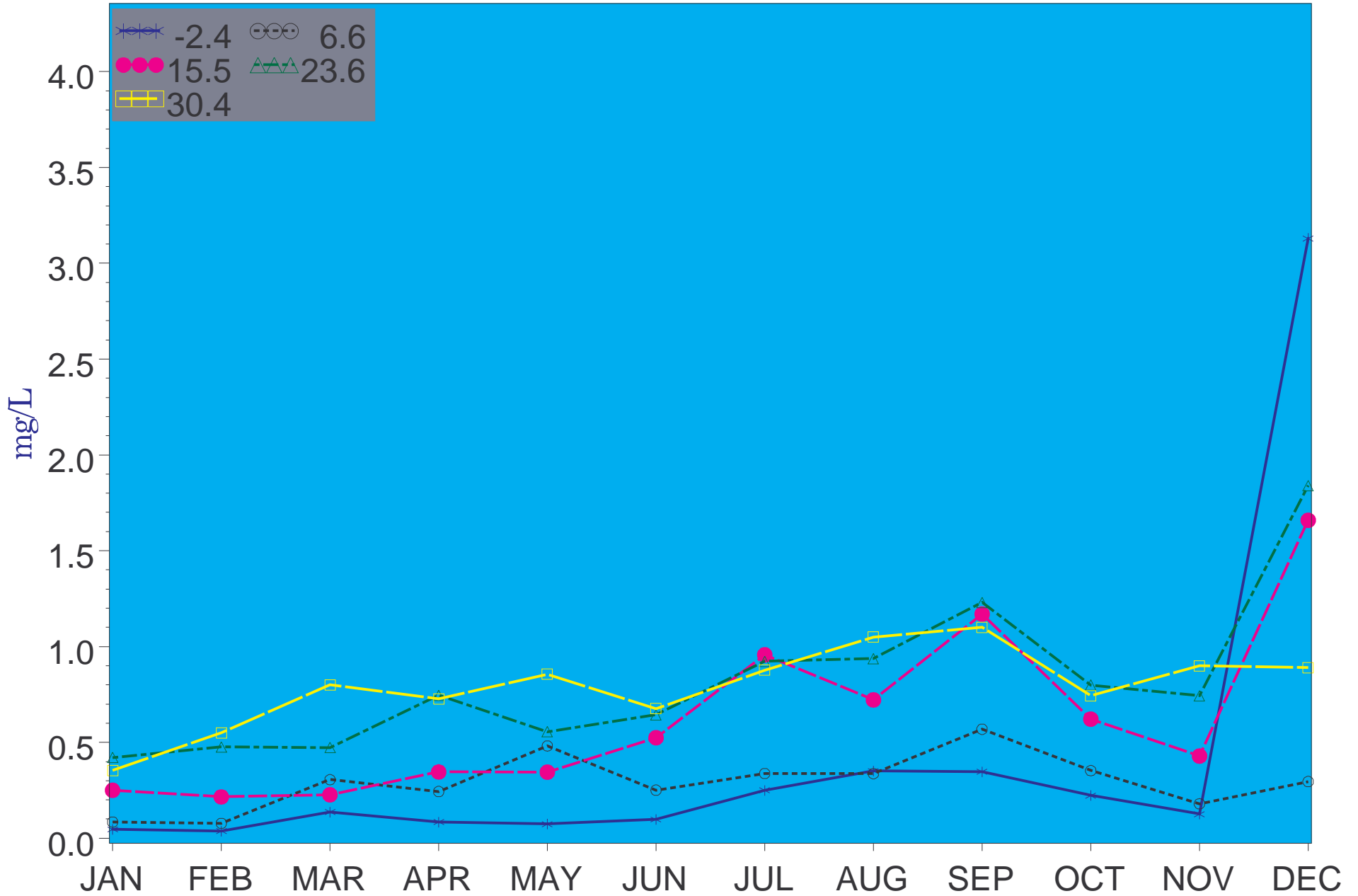


Figure 4.12b 2000 Total Phosphorus at fixed sampling stations (2001).

Total Organic Carbon - Subsurface

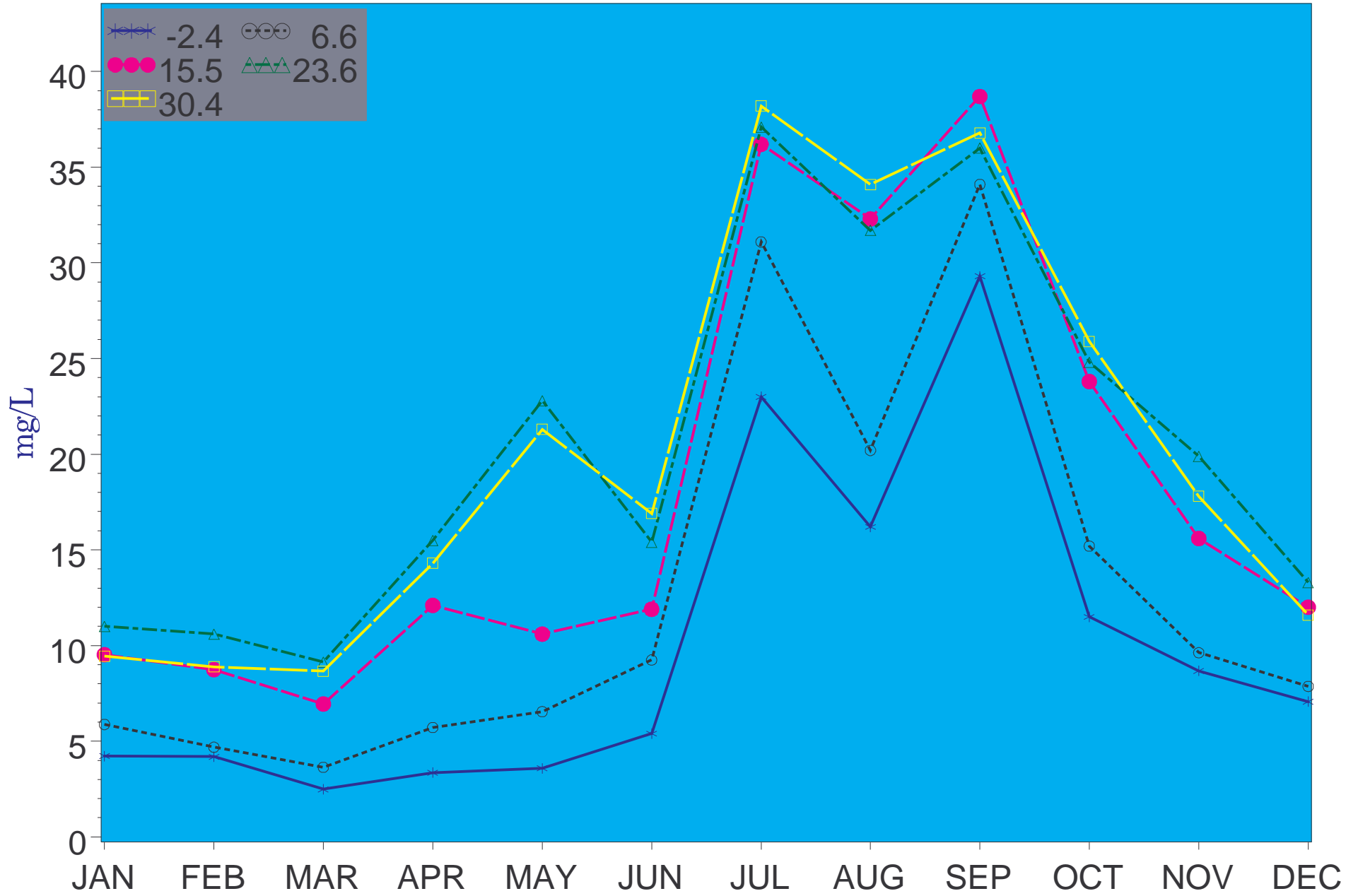


Figure 4.13a Total Organic Carbon at fixed sampling stations (2001).

Total Organic Carbon - Near Bottom

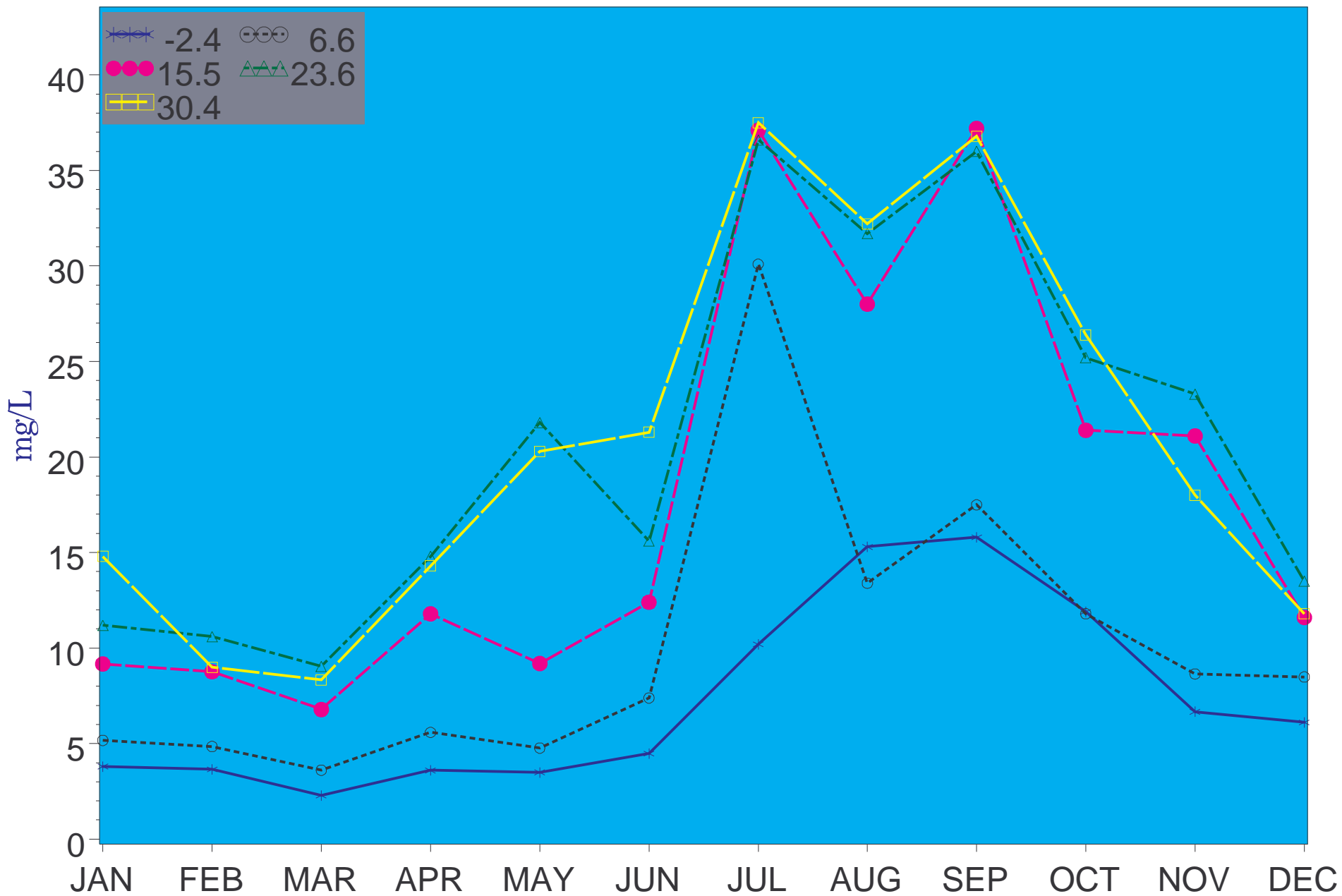


Figure 4.13b Total Organic Carbon at fixed sampling stations (2001).

Silica - Subsurface

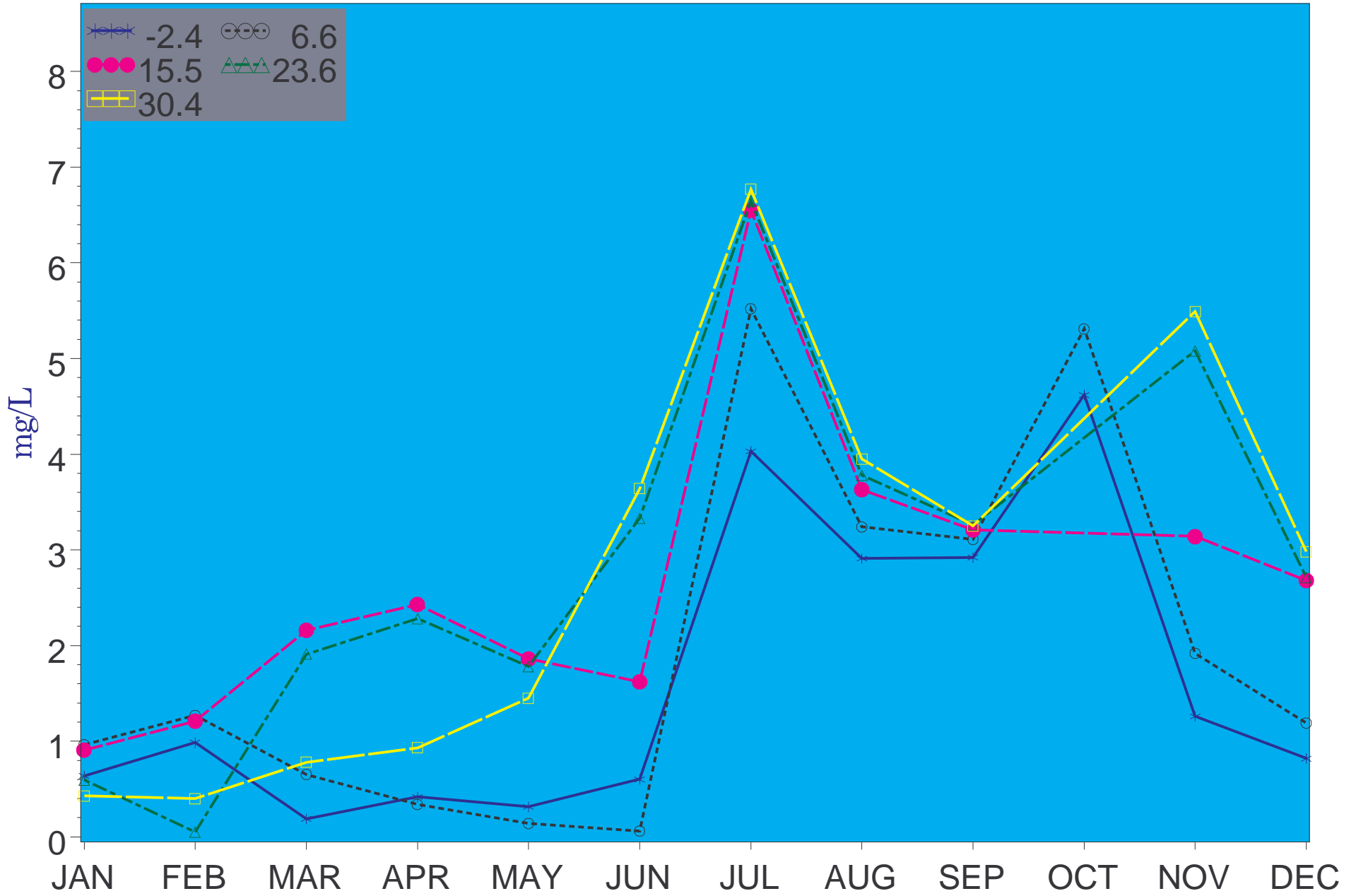


Figure 4.14a Silica at fixed sampling stations (2001).

Silica - Near Bottom

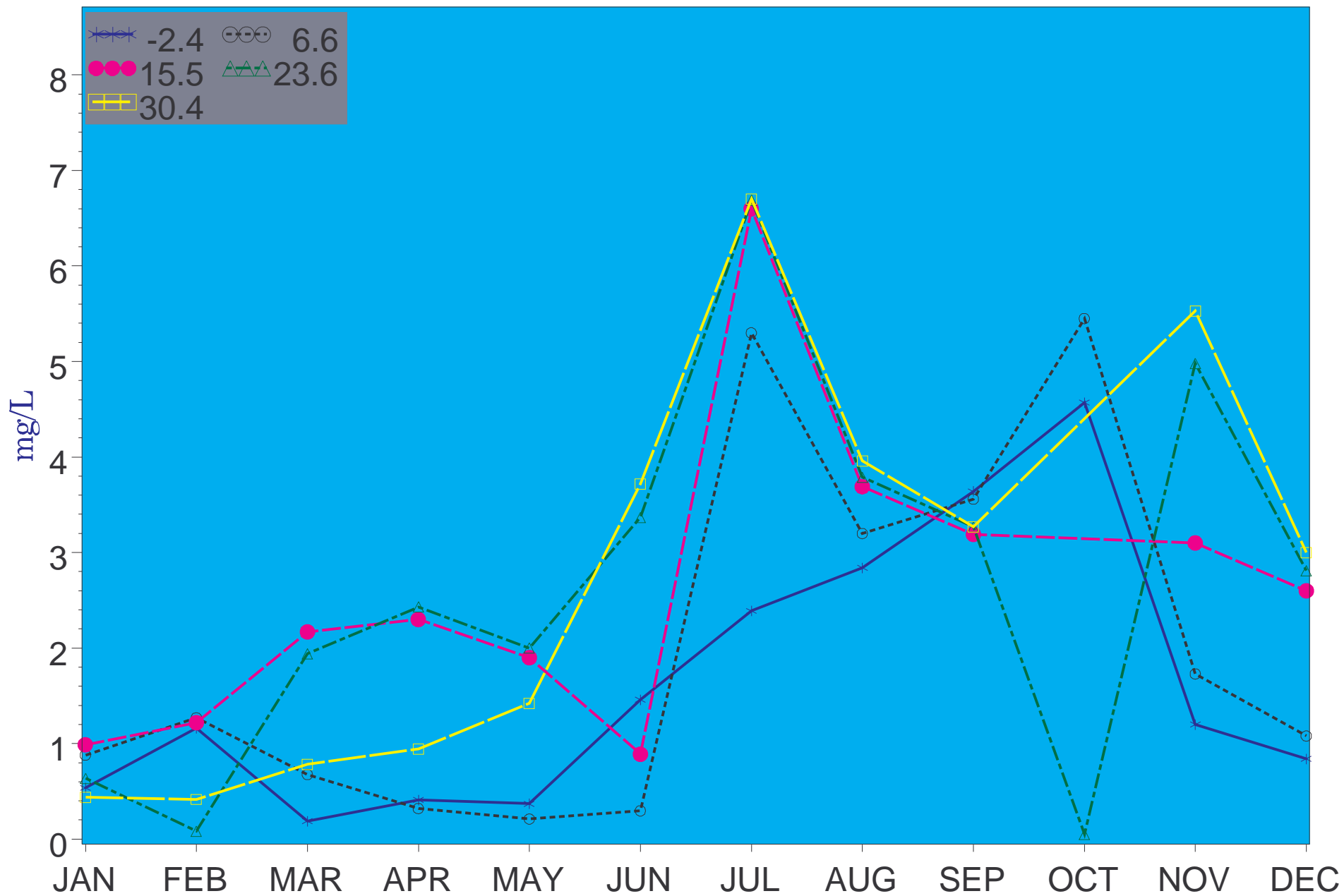


Figure 4.14b Silica at fixed sampling stations (2001).

Chlorophyll a - Subsurface

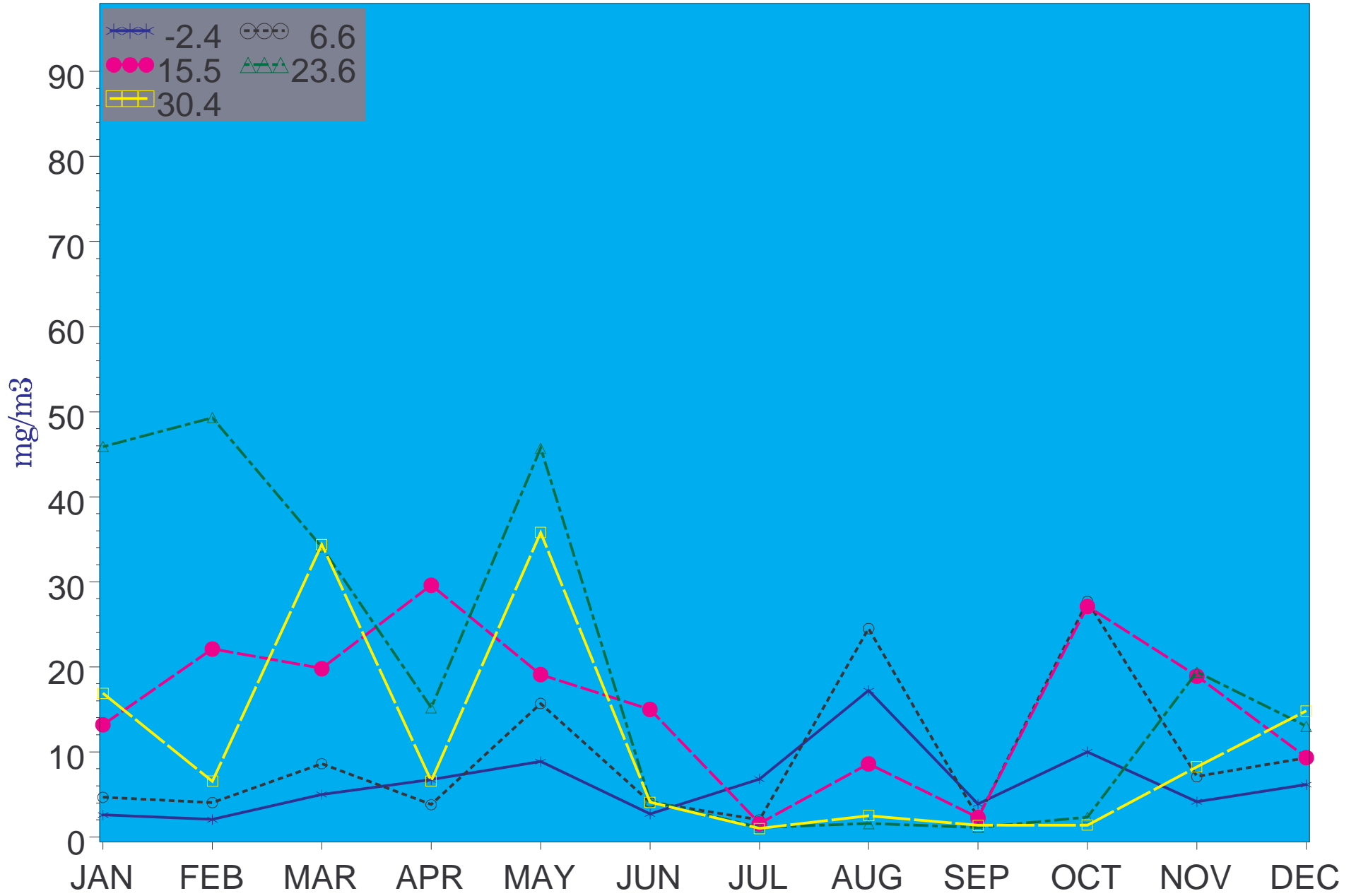


Figure 4.15a Chlorophyll a (mg/m³) at fixed stations (2001).

Chlorophyll a - Near Bottom

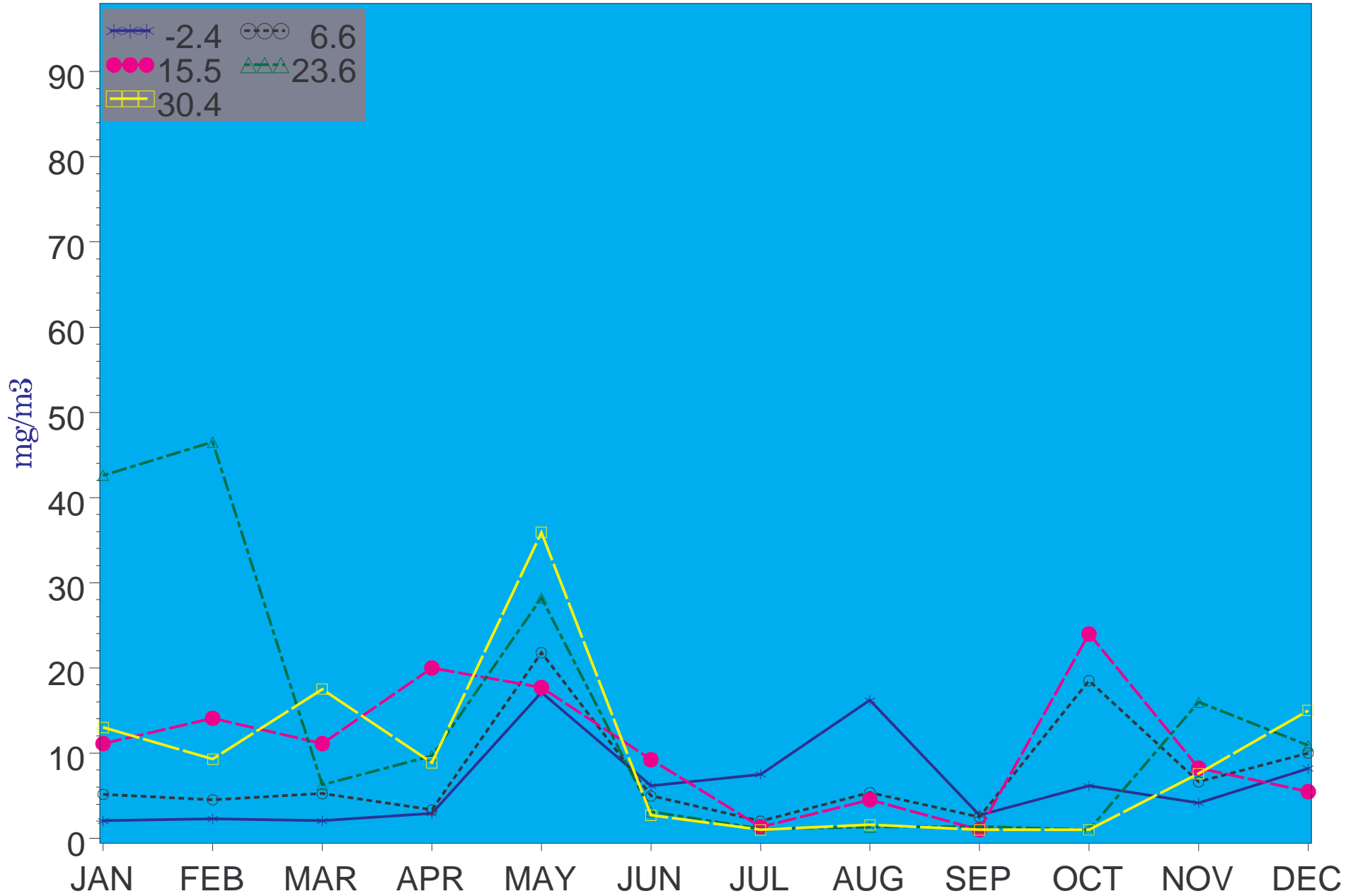


Figure 4.15b Chlorophyll a (mg/m³) at fixed stations (2001).

Surface Salinity River Kilometer=-2.4

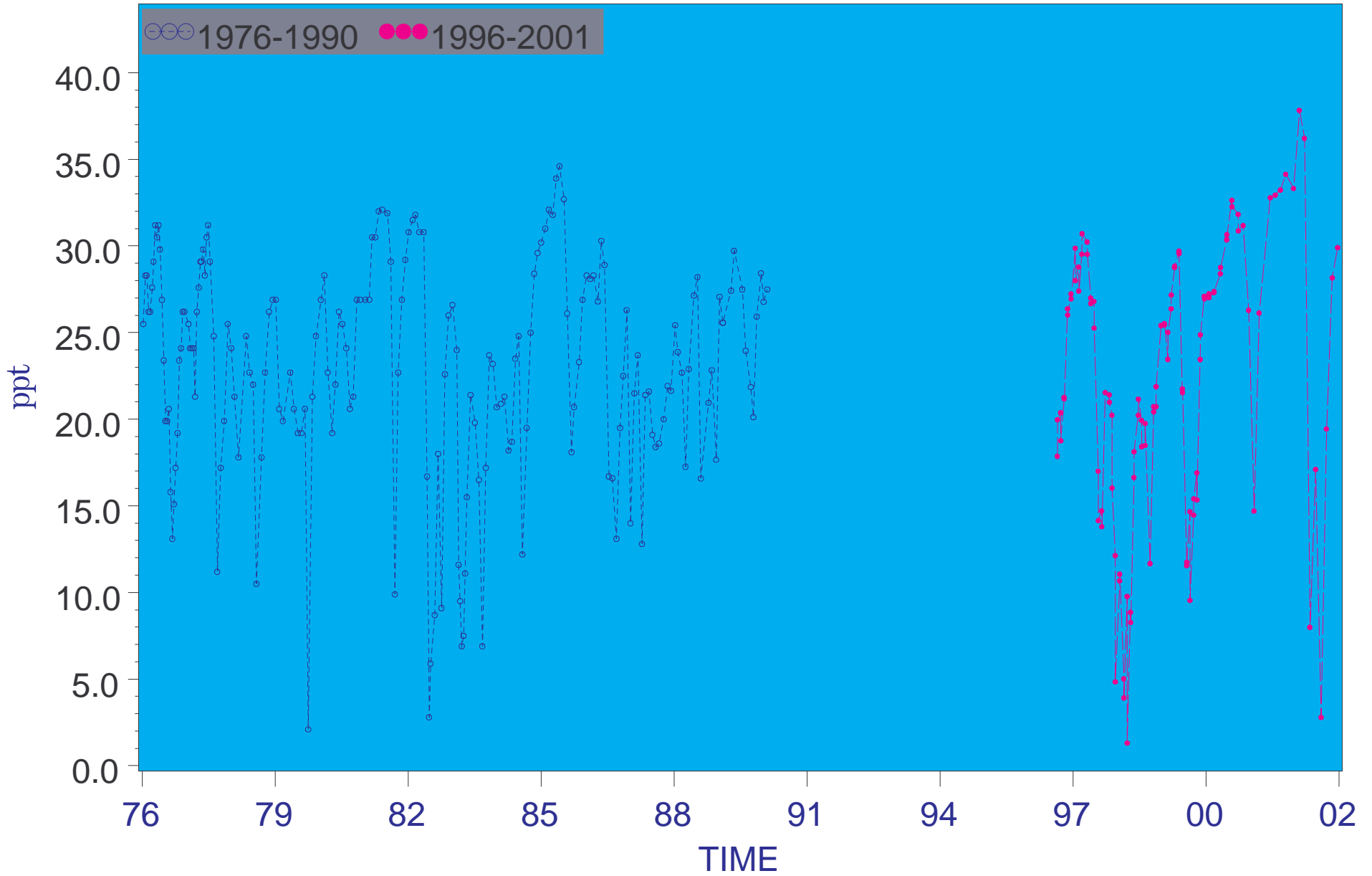


Figure 4.16 a Long-term salinity at river kilometer -2.4.

Surface Salinity River Kilometer=6.6

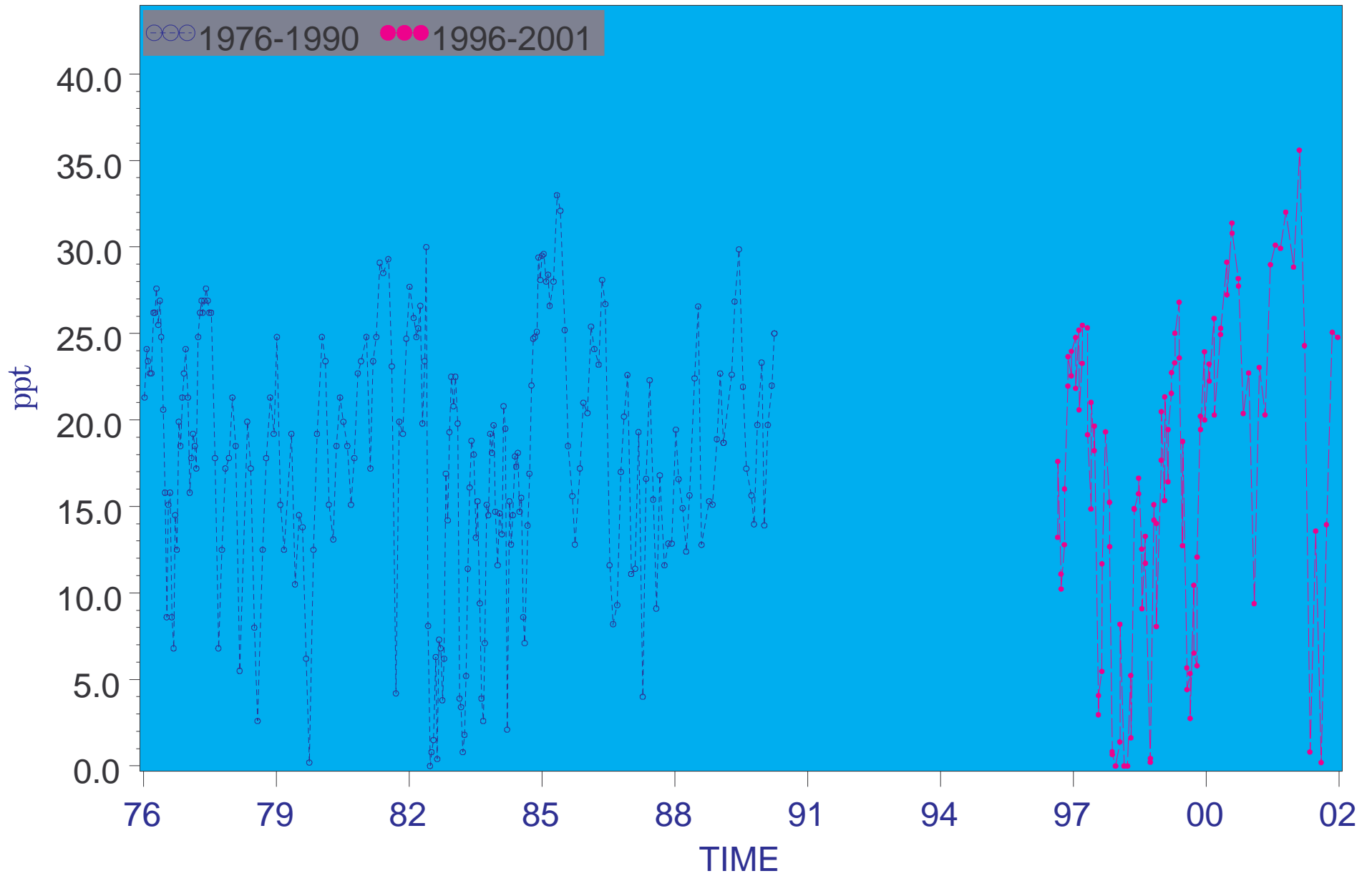


Figure 4.16 b Long-term salinity at river kilometer 6.6.

Surface Salinity River Kilometer=15.5

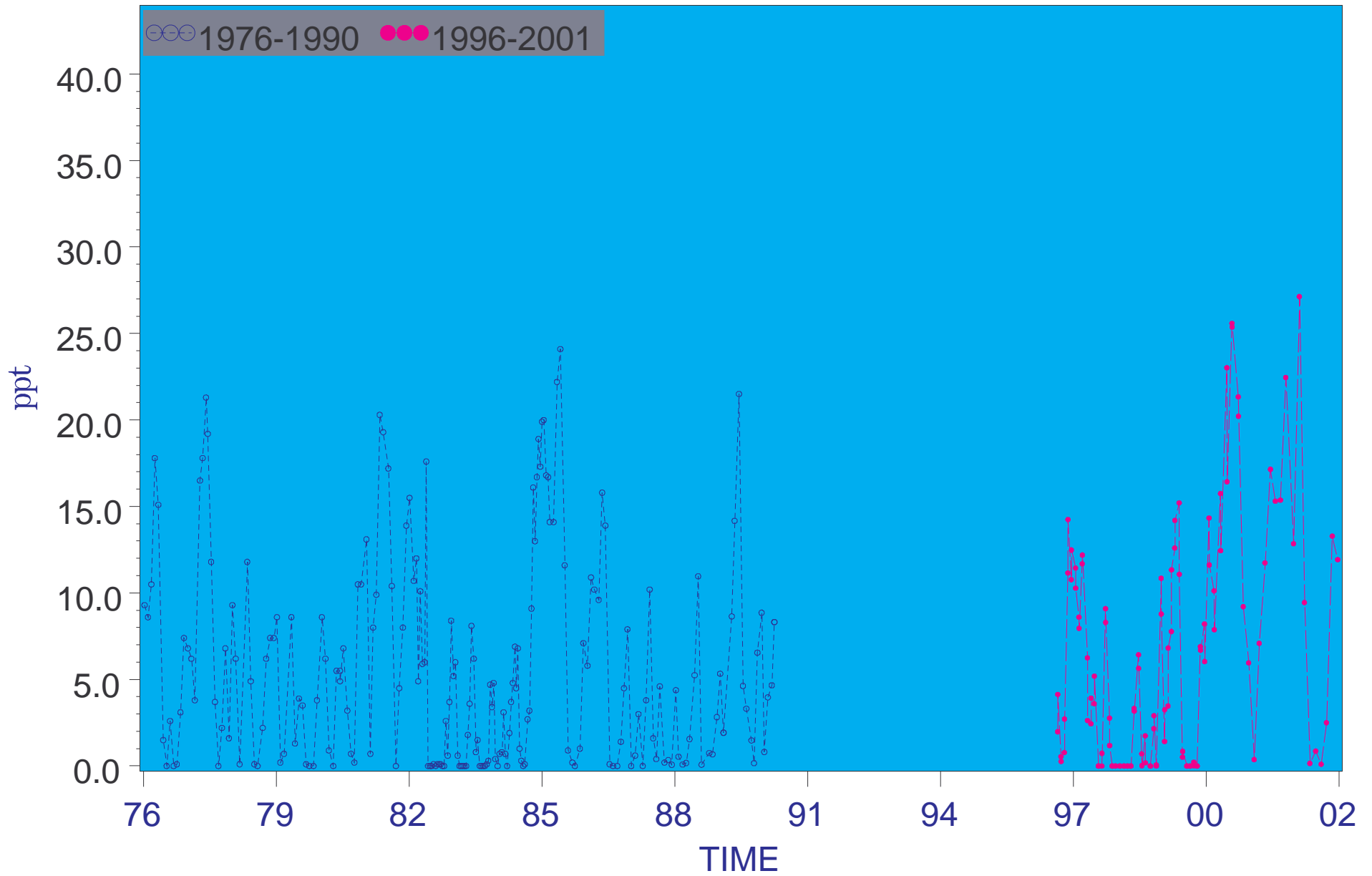


Figure 4.16c Long-term salinity at river kilometer 15.5.

Surface Salinity
River Kilometer=23.6

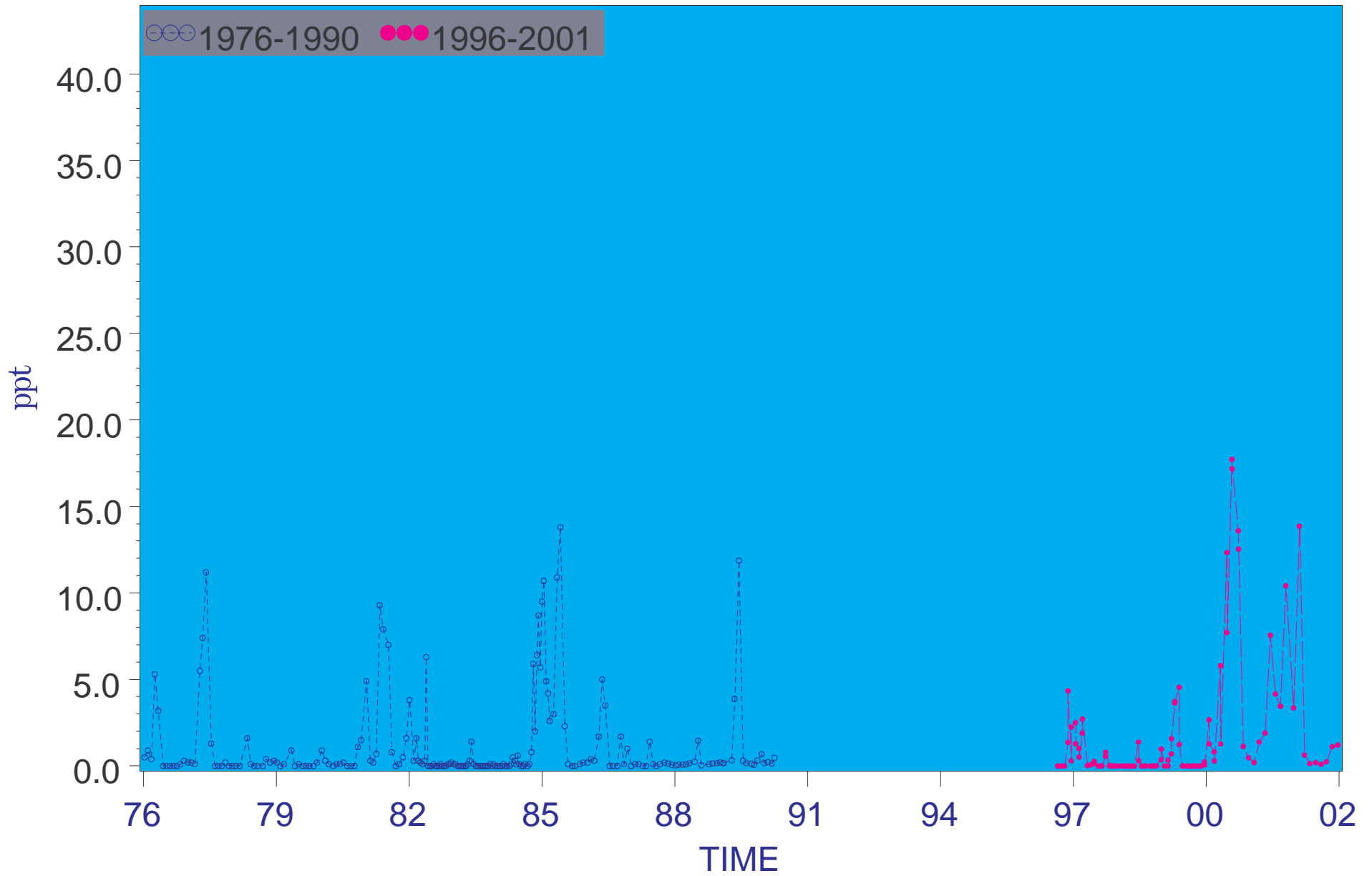


Figure 4.16 d Long-term salinity at river kilometer 23.6.

Surface Salinity
River Kilometer=30.4

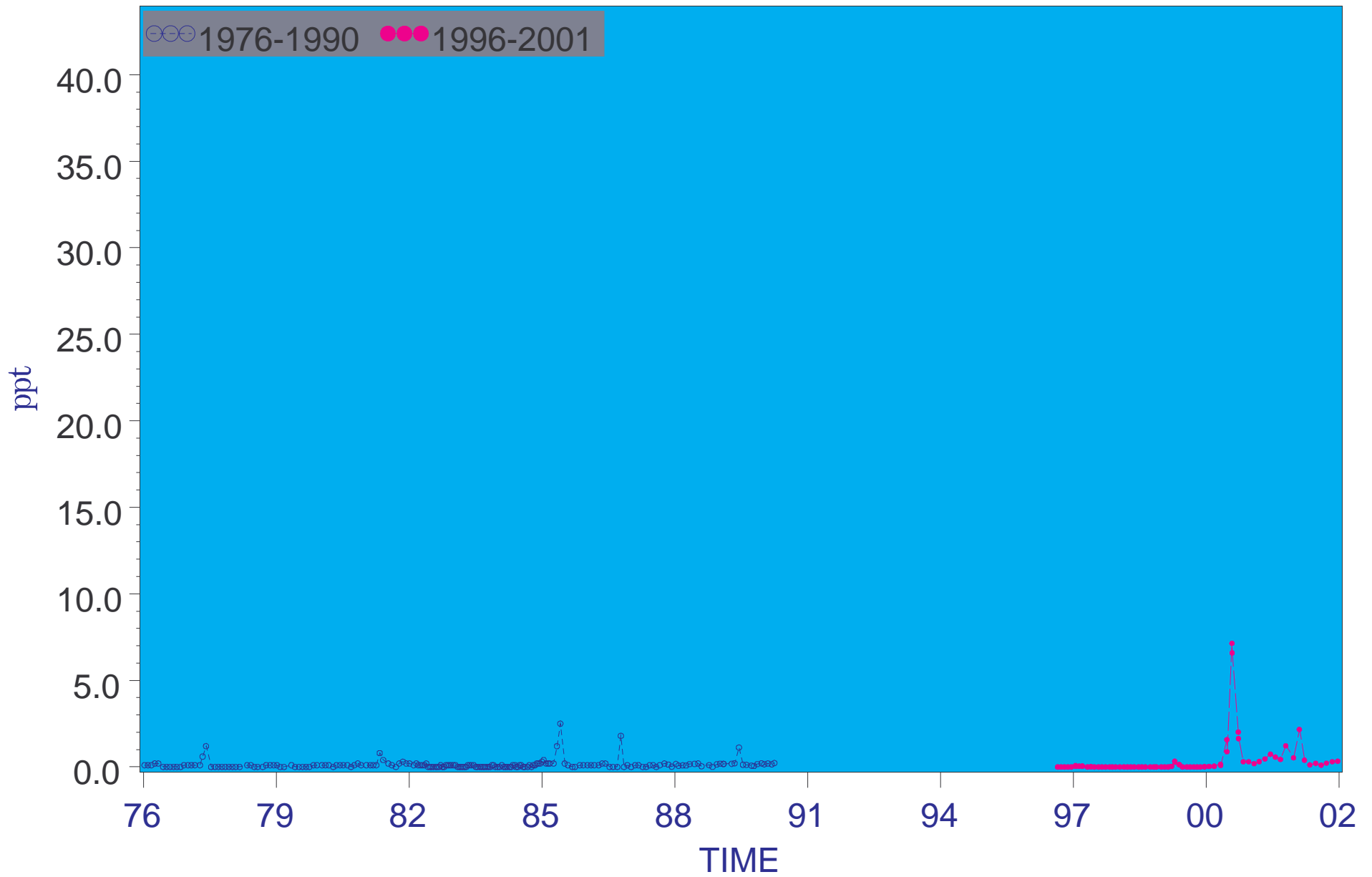


Figure 4.16e Long-term salinity at river kilometer 30.4.

Bottom Salinity River Kilometer=-2.4

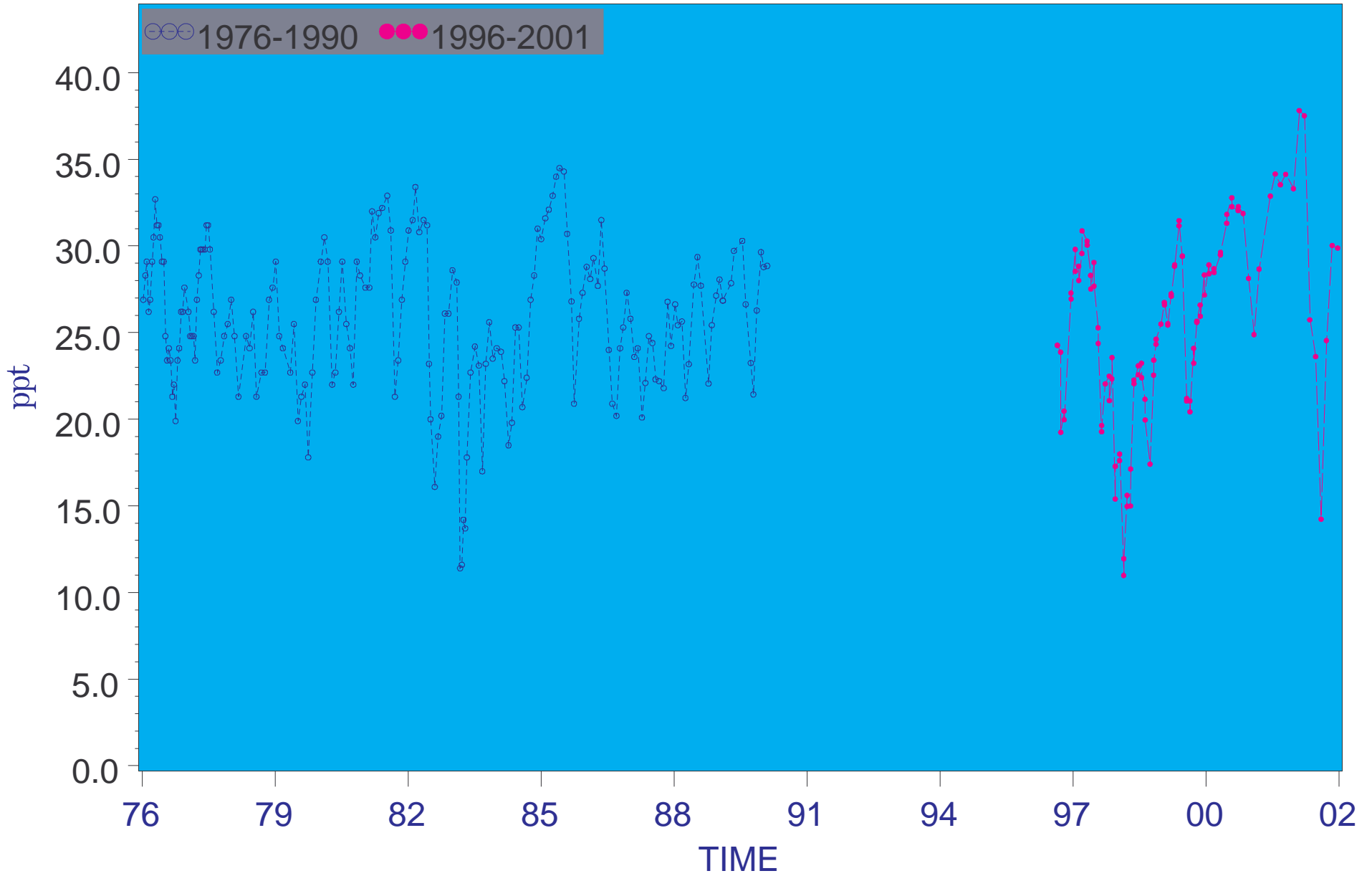


Figure 4.17 a Long-term salinity at river kilometer -2.4.

Bottom Salinity
River Kilometer=6.6

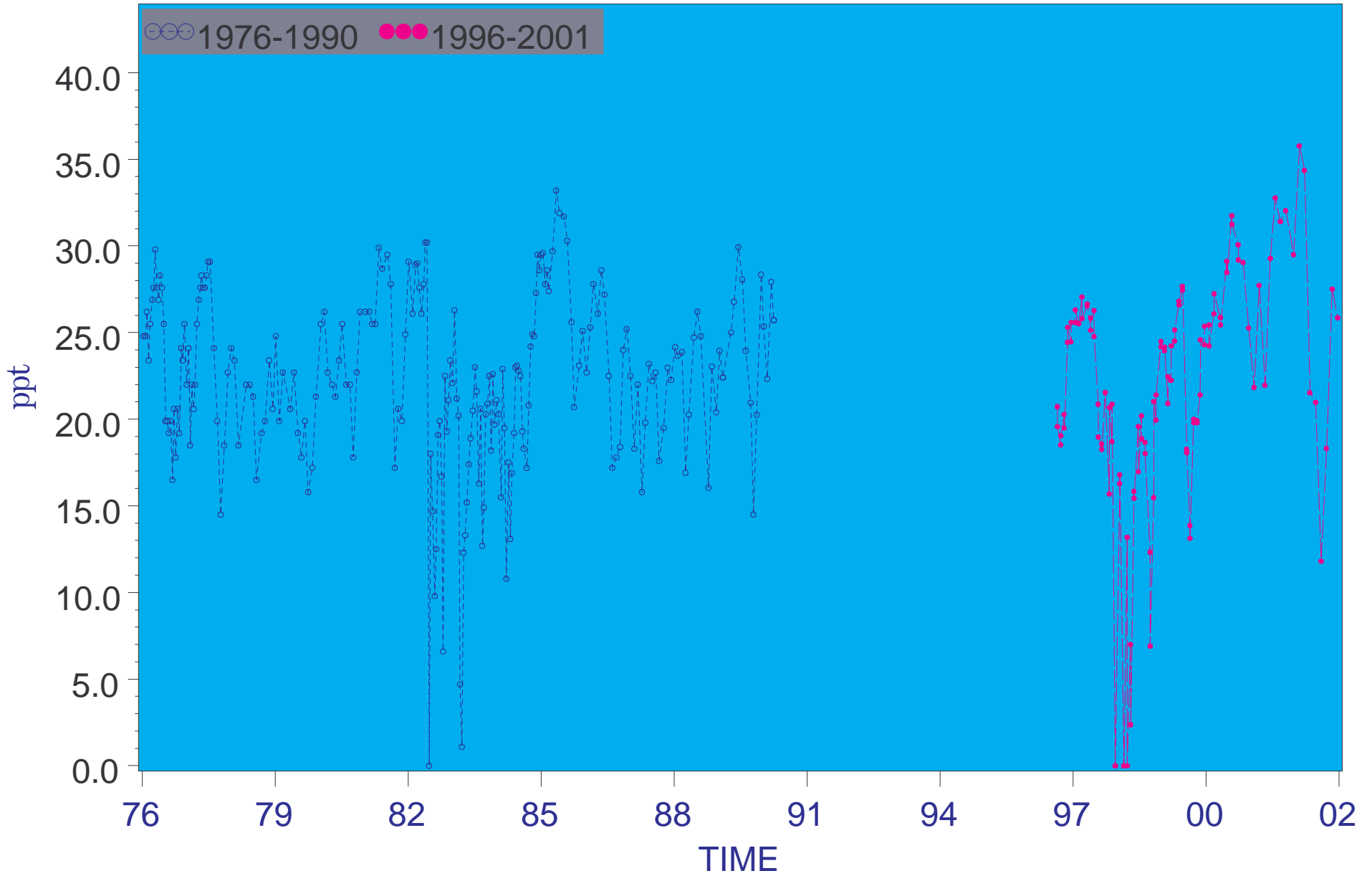


Figure 4.17 b Long-term salinity at river kilometer 6.6.

Bottom Salinity
River Kilometer=15.5

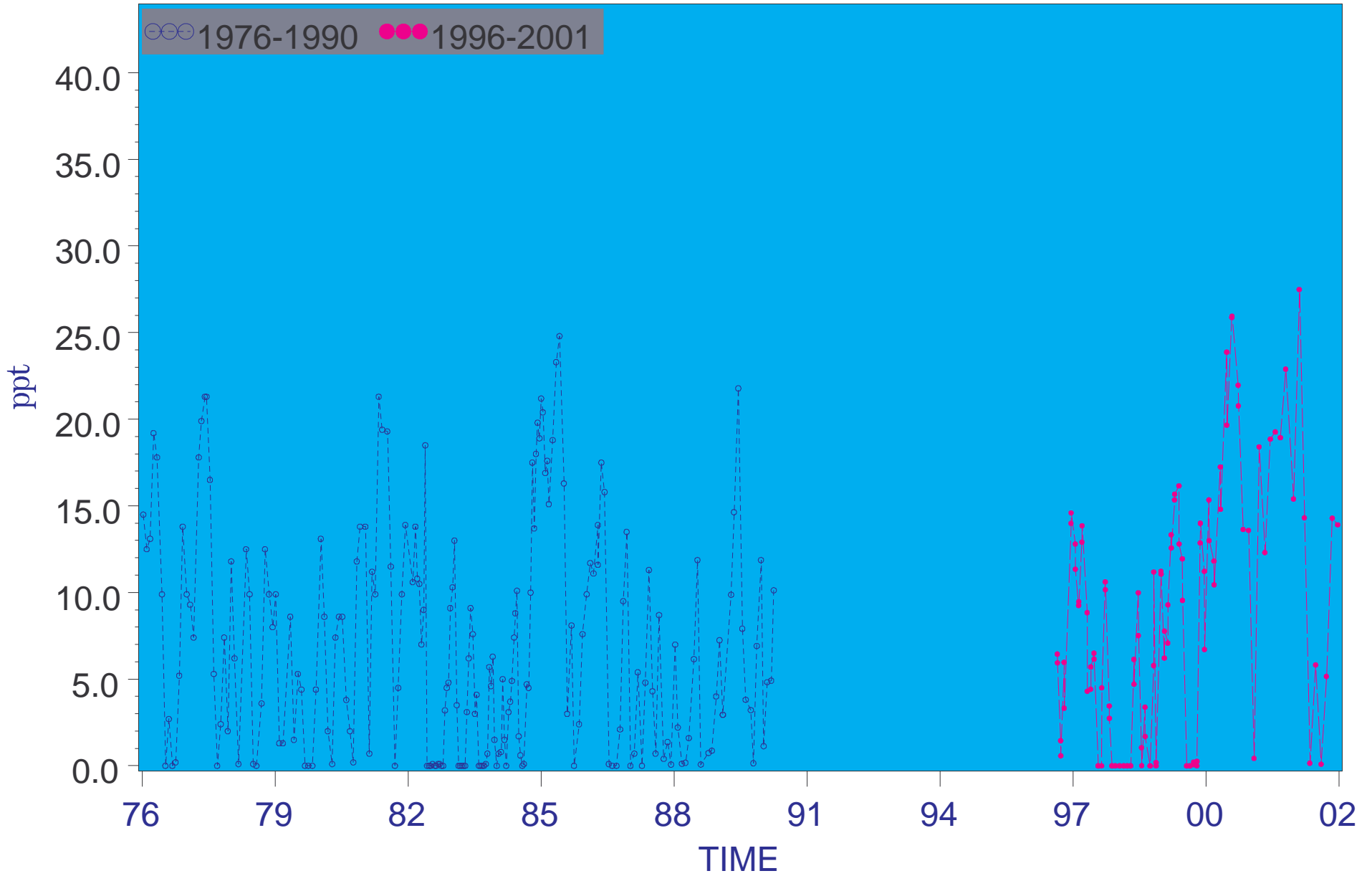


Figure 4.17 c Long-term salinity at river kilometer 15.5.

Bottom Salinity
River Kilometer=23.6

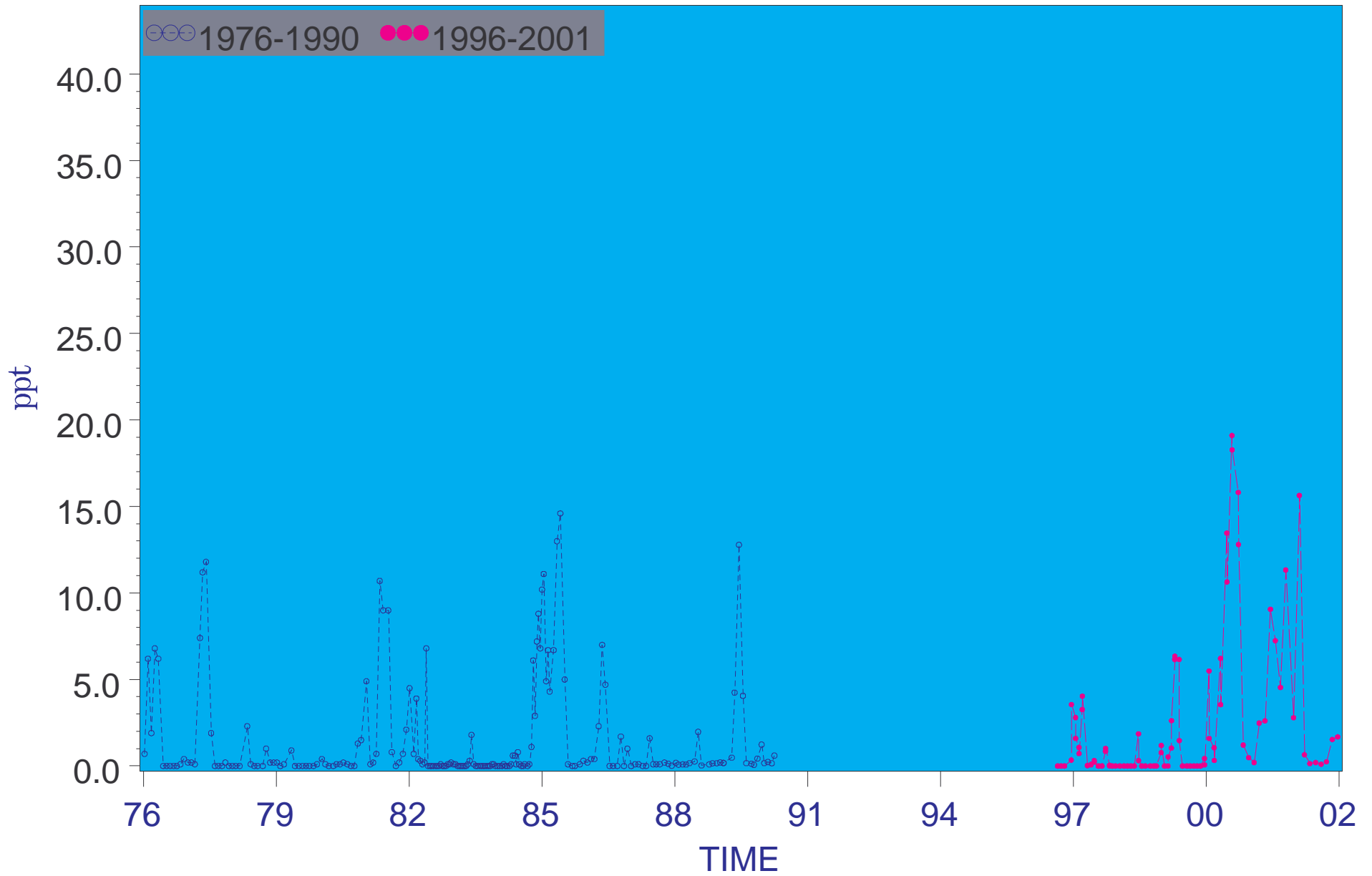


Figure 4.17 d Long-term salinity at river kilometer 23.6.

Bottom Salinity
River Kilometer=30.4

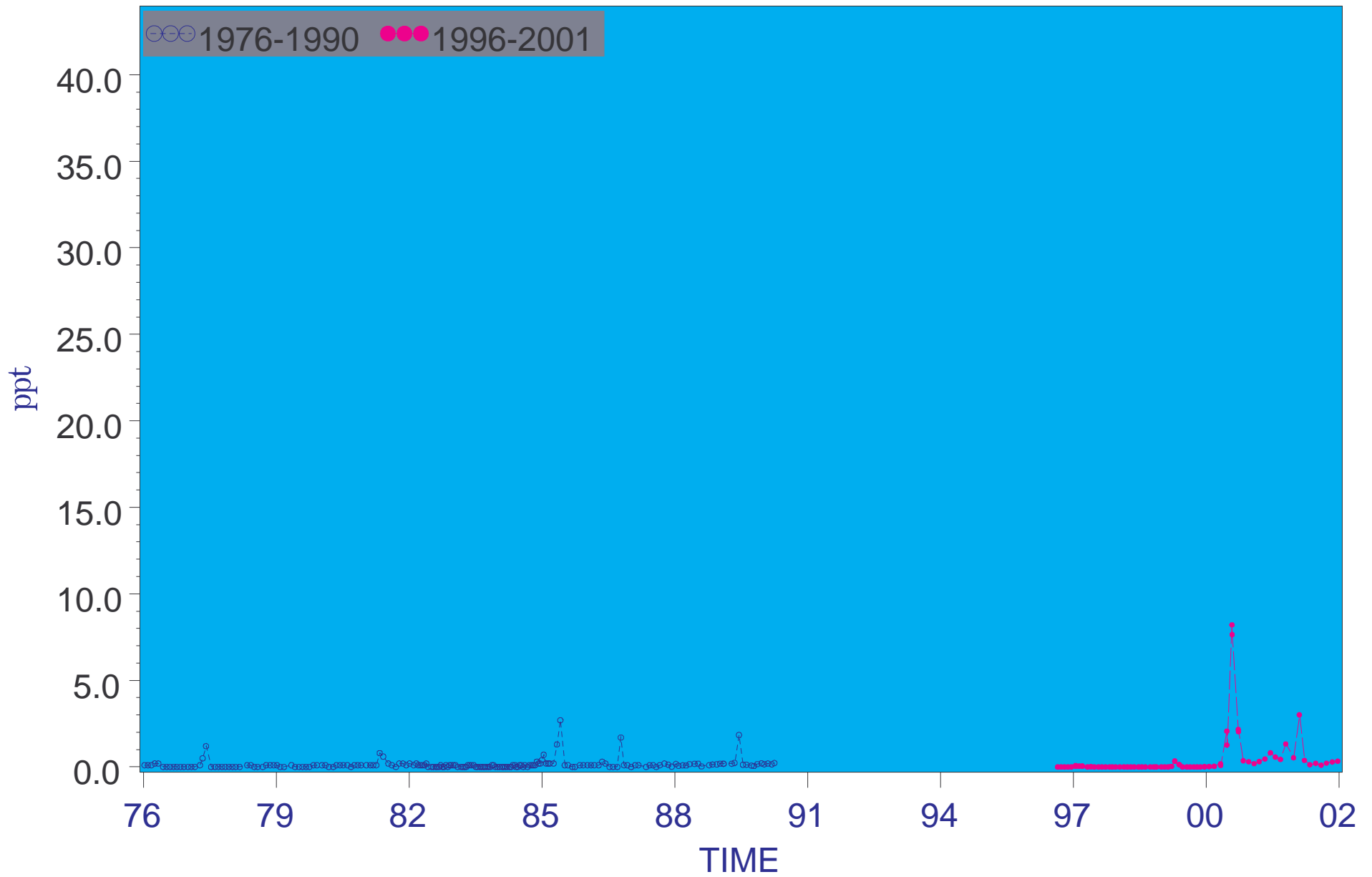


Figure 4.17 e Long-term salinity at river kilometer 30.4.

Surface Dissolved Oxygen Levels River Kilometer=-2.4

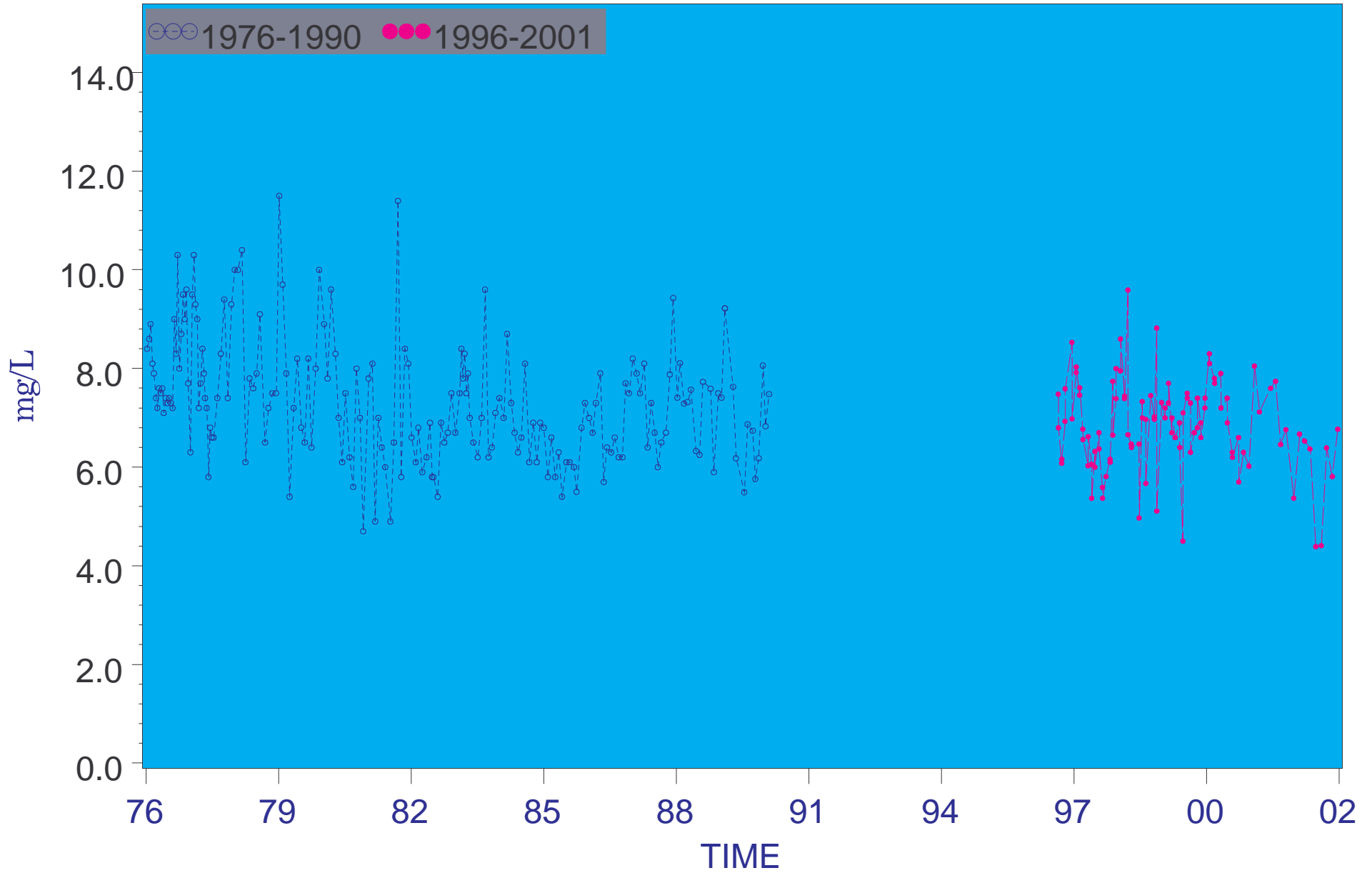


Figure 4.18 a Long-term dissolved oxygen at river kilometer -2.4.

Surface Dissolved Oxygen Levels River Kilometer=6.6

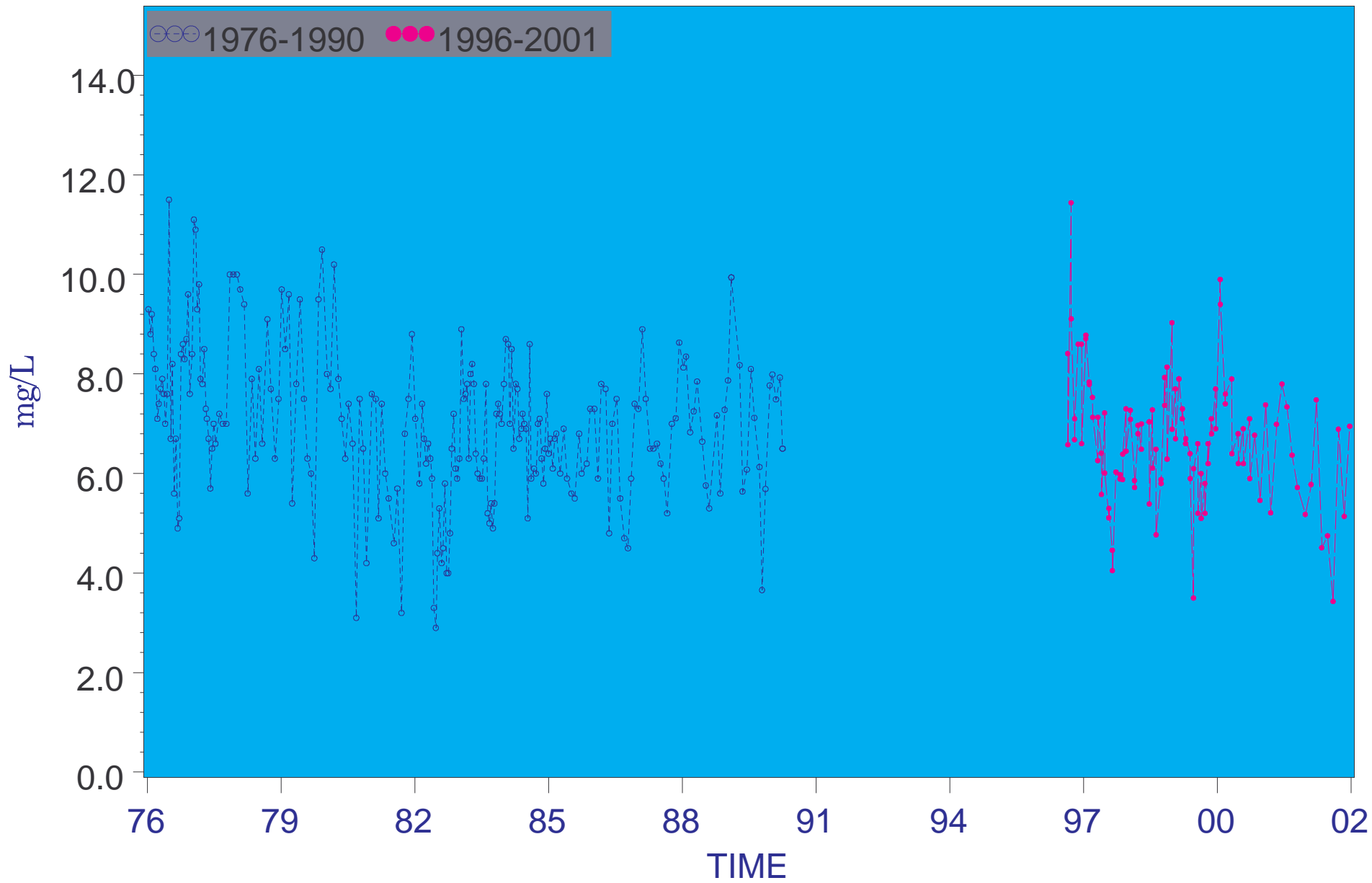


Figure 4.18 b Long-term dissolved oxygen at river kilometer 6.6.

Surface Dissolved Oxygen Levels River Kilometer=15.5

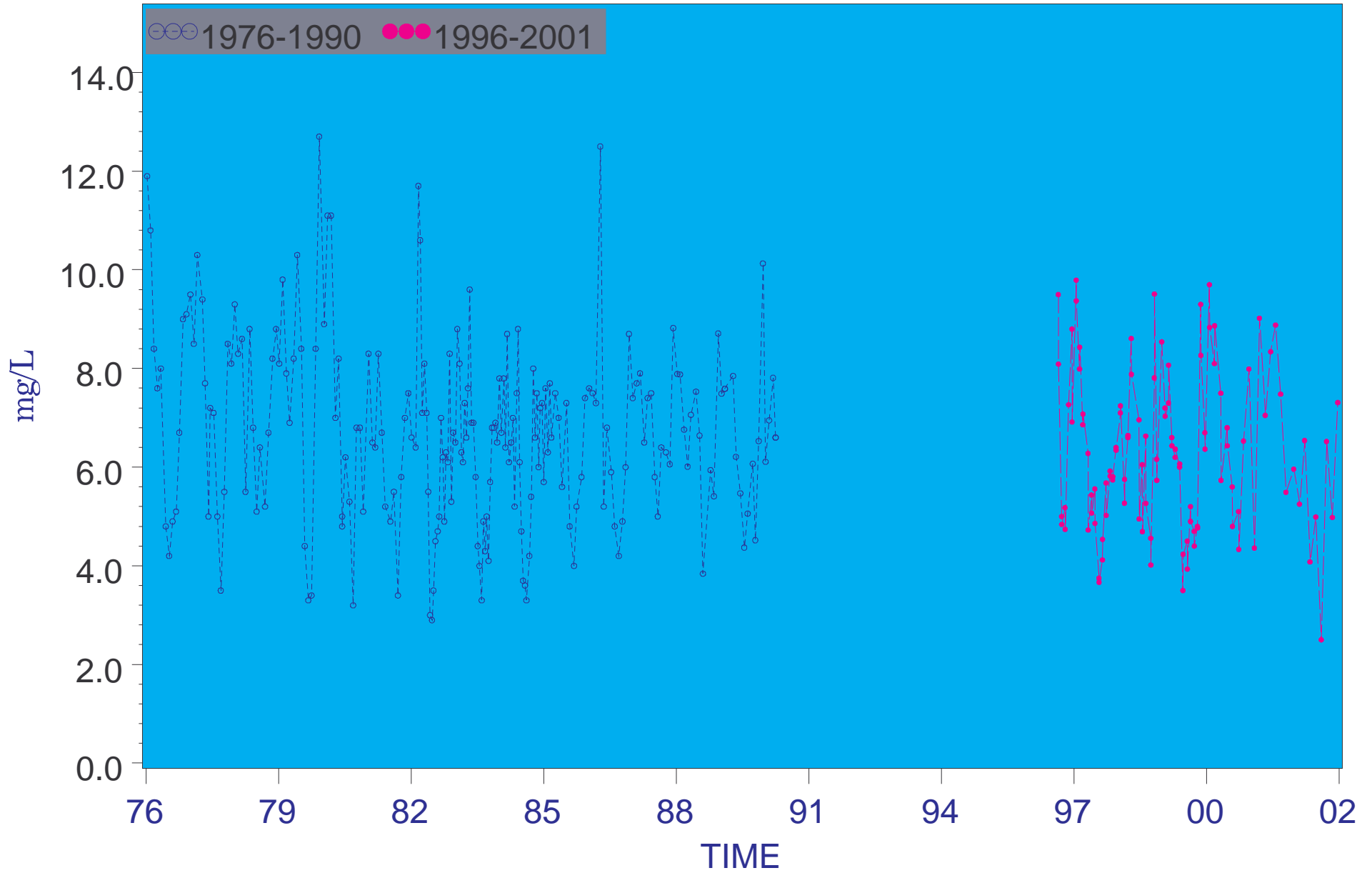


Figure 4.18 c Long-term dissolved oxygen at river kilometer 15.5.

Surface Dissolved Oxygen Levels River Kilometer=23.6

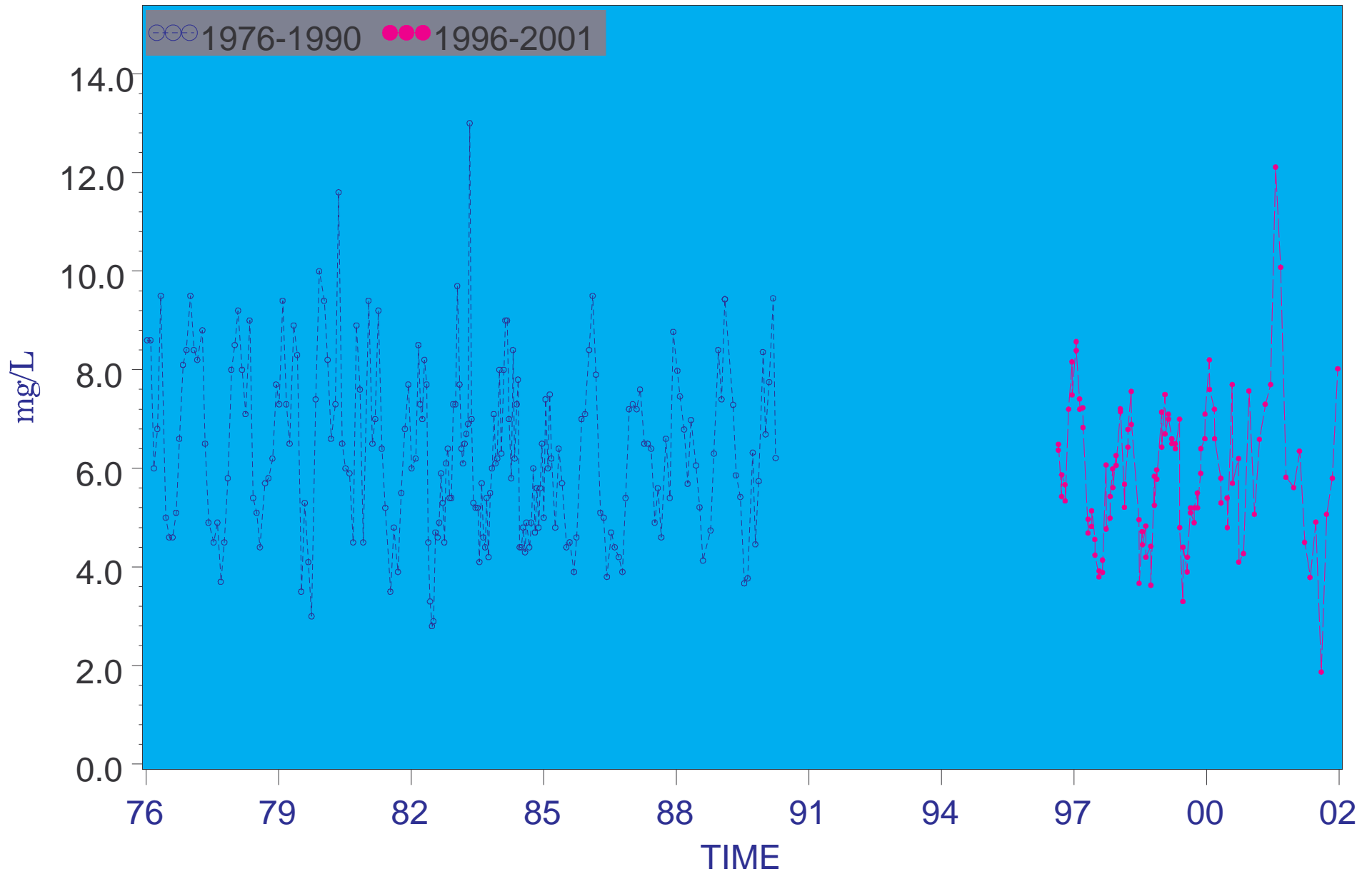


Figure 4.18 d Long-term dissolved oxygen at river kilometer 23.6.

Surface Dissolved Oxygen Levels River Kilometer=30.4

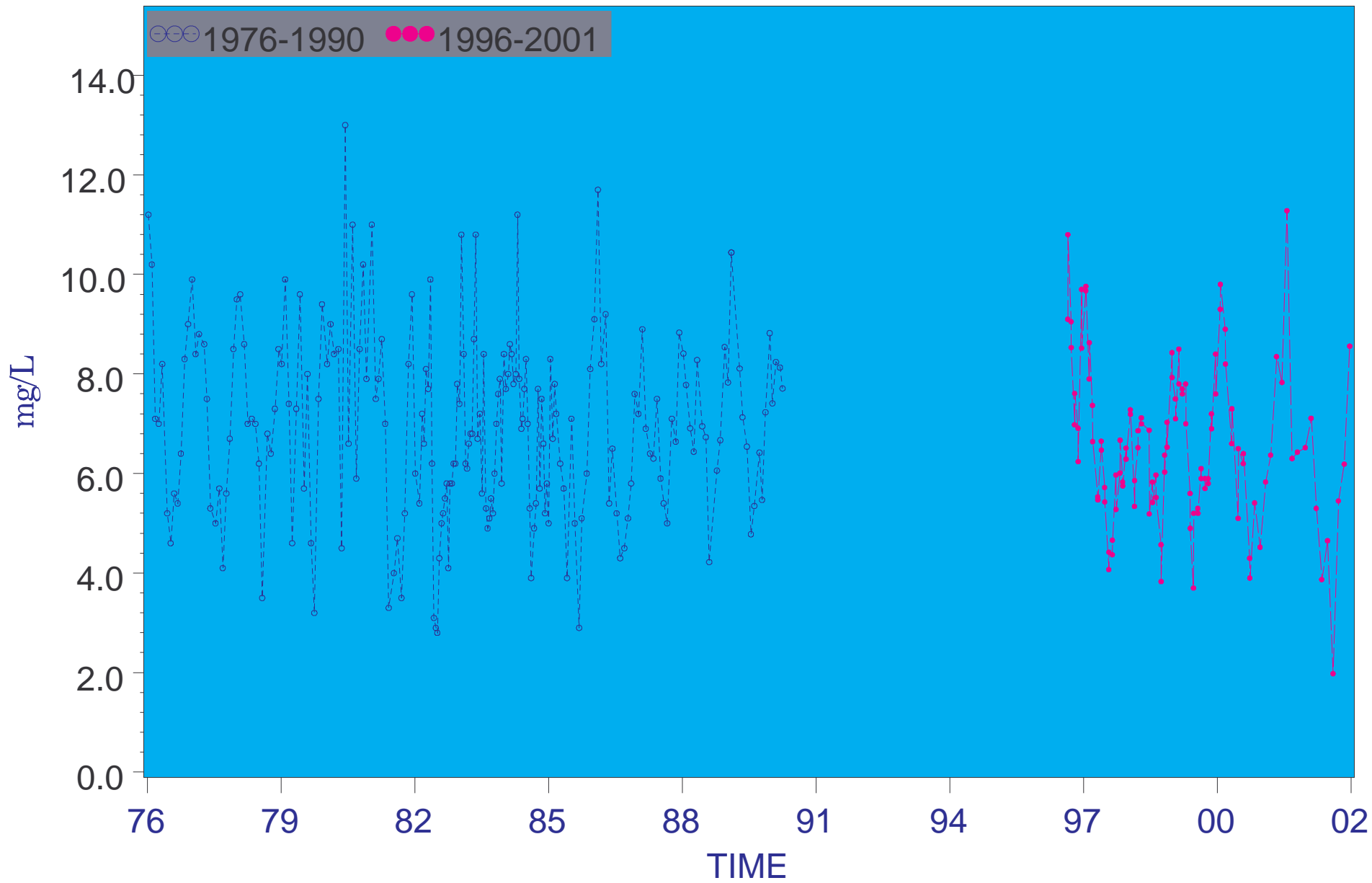


Figure 4.18 e Long-term dissolved oxygen at river kilometer 30.4.

Bottom Dissolved Oxygen Levels River Kilometer=-2.4

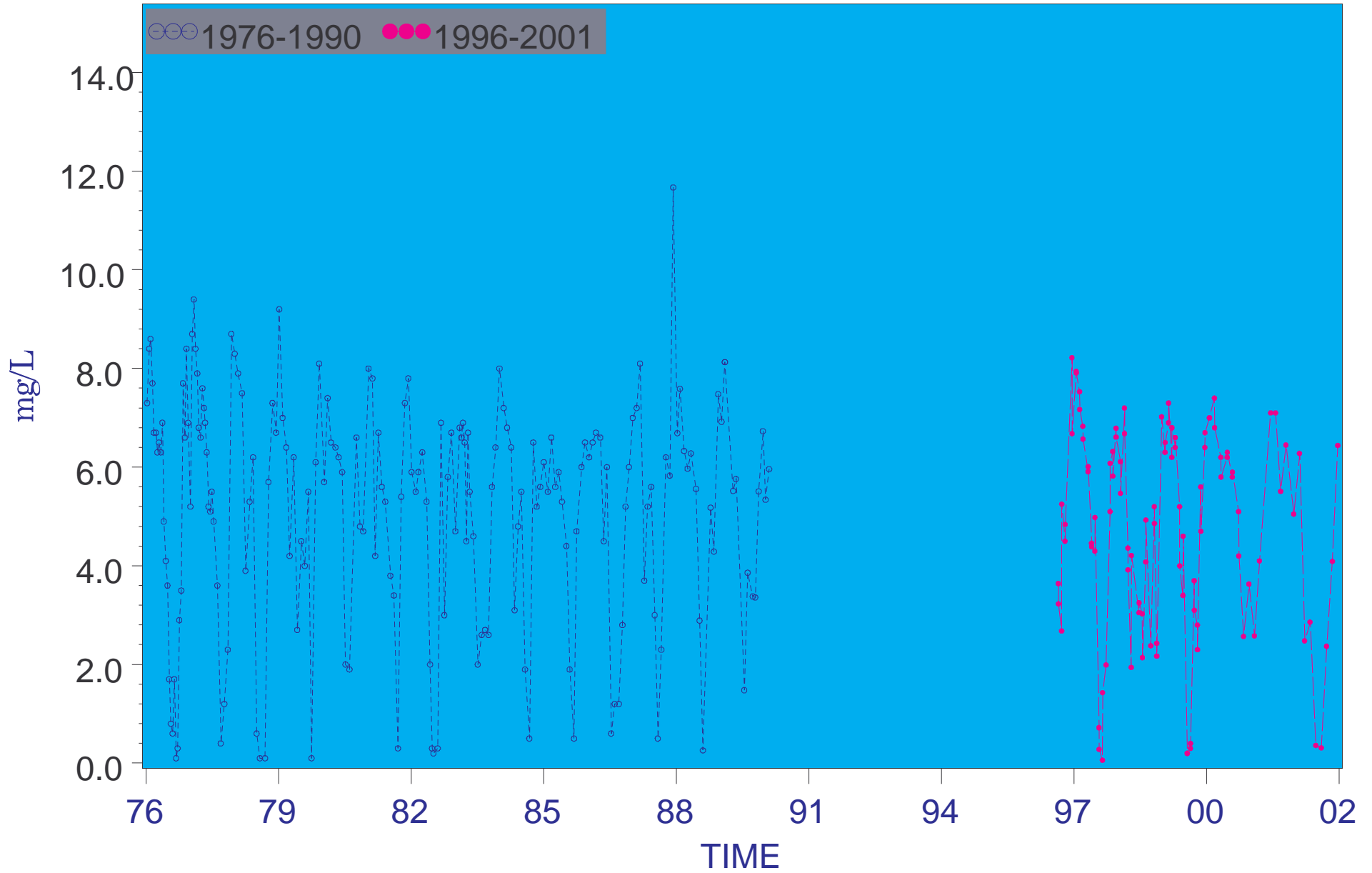


Figure 4.19 a Long-term dissolved oxygen at river kilometer -2.4.

Bottom Dissolved Oxygen Levels River Kilometer=6.6

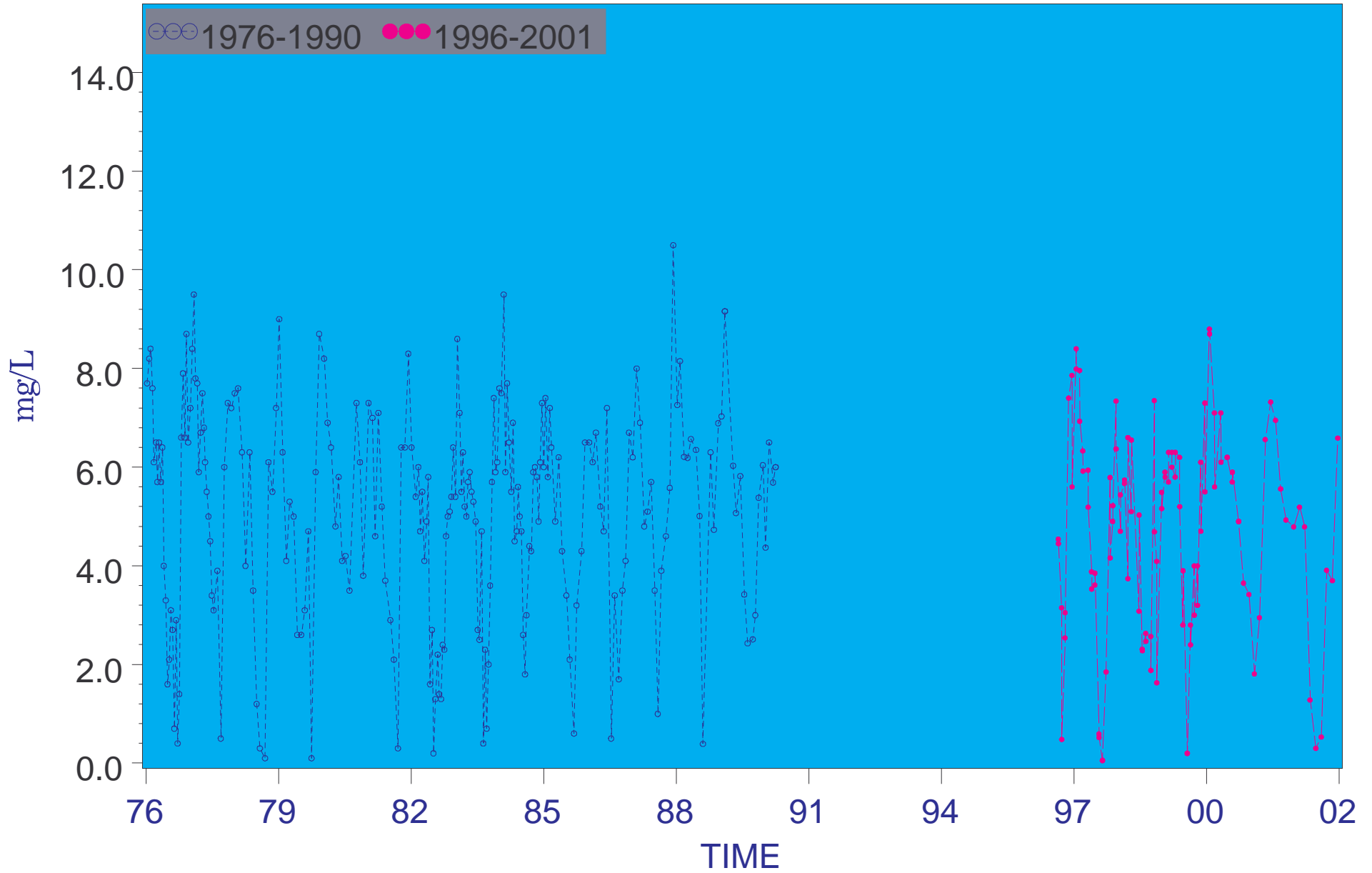


Figure 4.19 b Long-term dissolved oxygen at river kilometer 6.6.

Bottom Dissolved Oxygen Levels River Kilometer=15.5

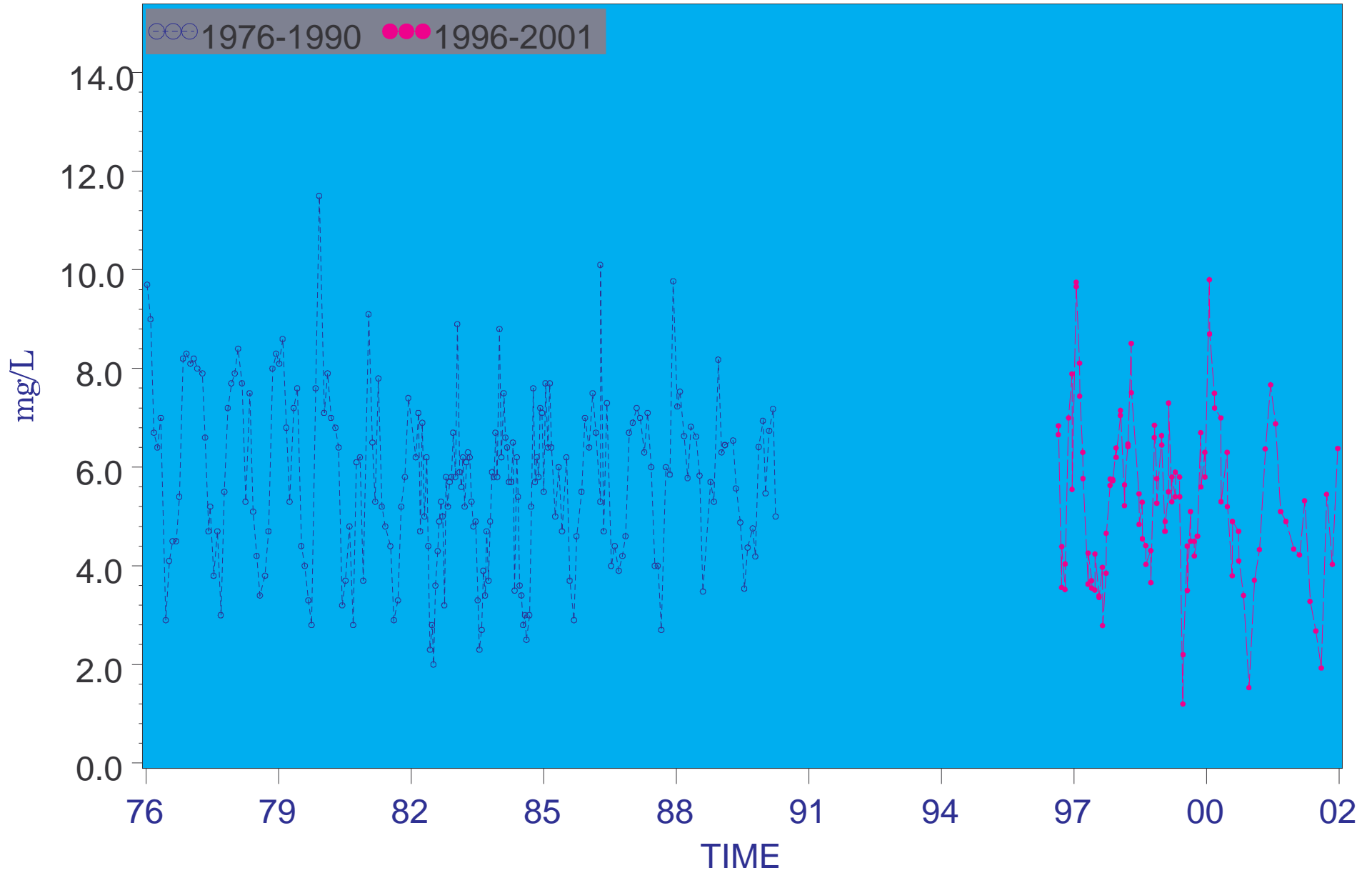


Figure 4.19 c Long-term dissolved oxygen at river kilometer 15.5.

Bottom Dissolved Oxygen Levels River Kilometer=23.6

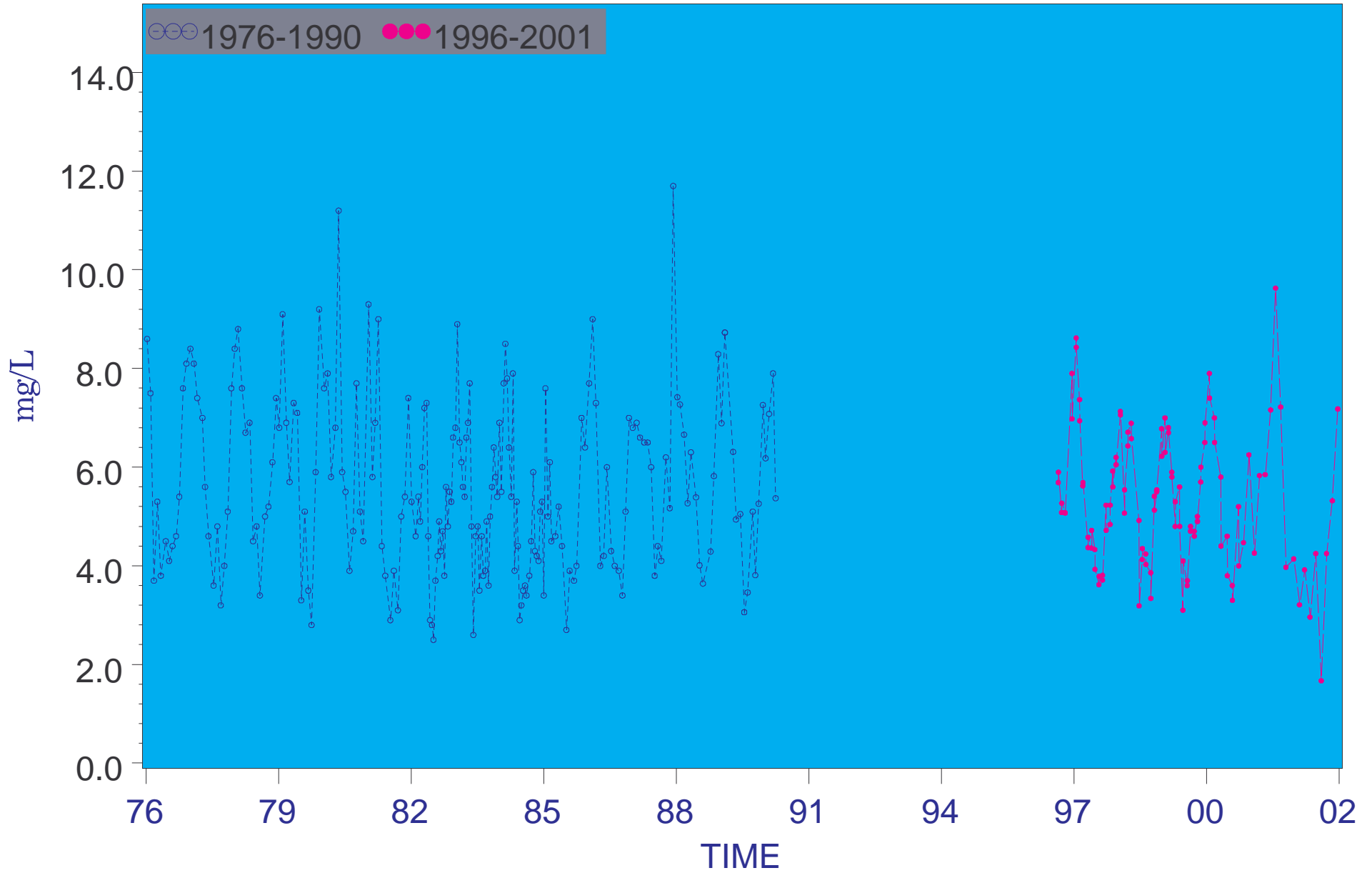


Figure 4.19 d Long-term dissolved oxygen at river kilometer 23.6.

Bottom Dissolved Oxygen Levels River Kilometer=30.4

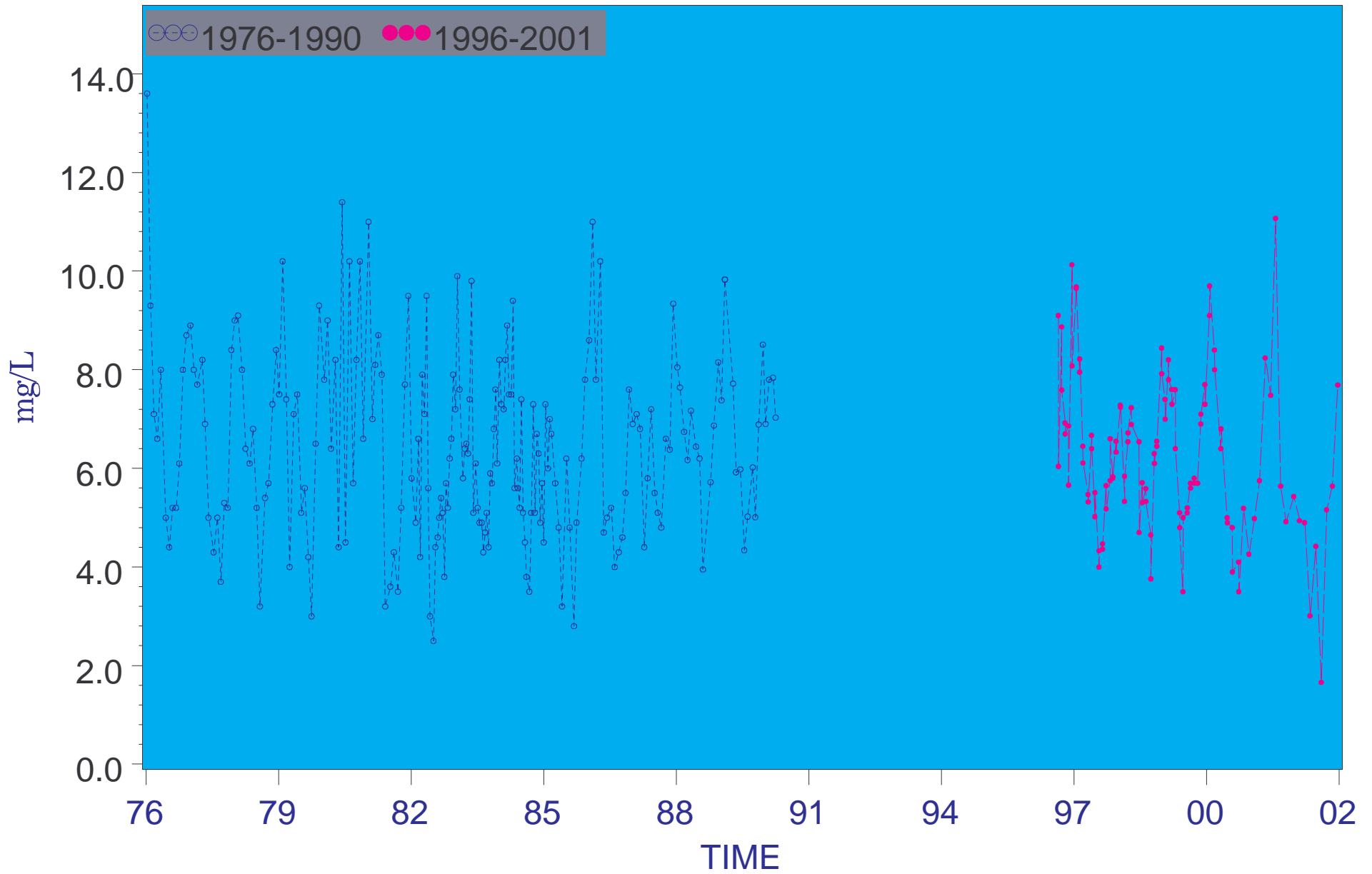


Figure 4.19 e Long-term dissolved oxygen at river kilometer 30.4.

Surface Water Color River Kilometer=-2.4

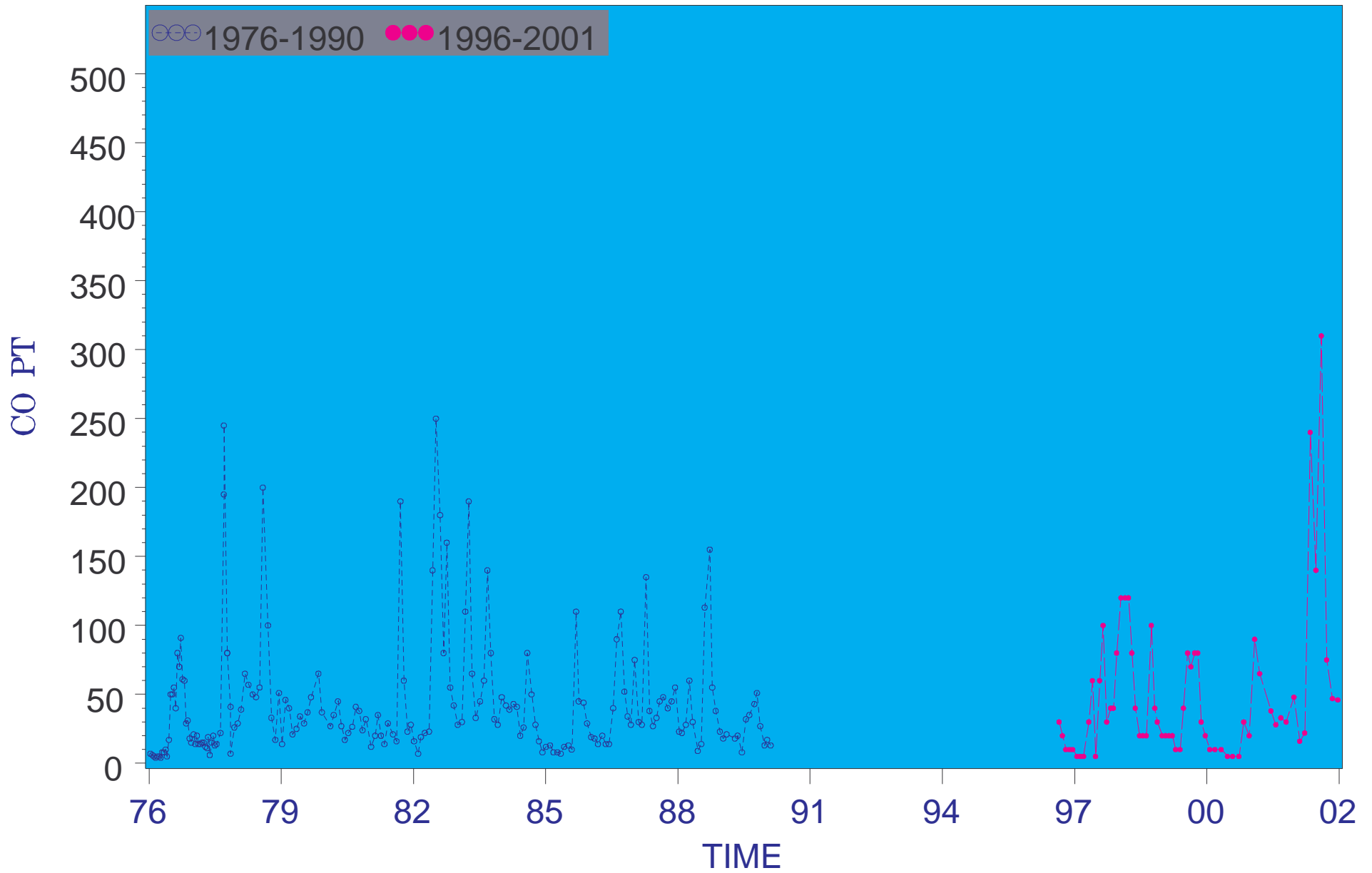


Figure 4.20a Long-term color at river kilometer -2.4.

Surface Water Color
River Kilometer=6.6

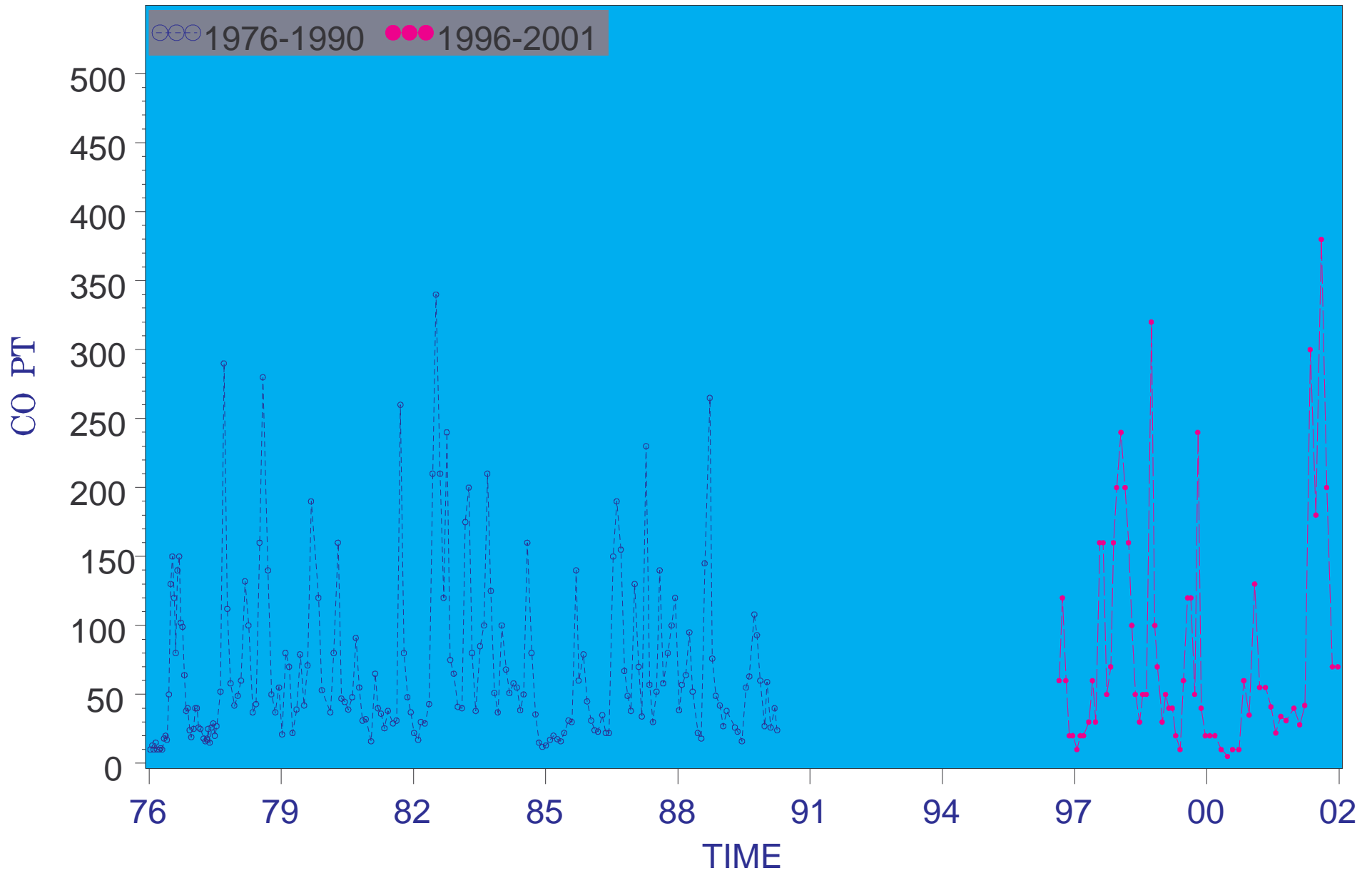


Figure 4.20 b Long-term color at river kilometer 6.6.

Surface Water Color River Kilometer=15.5

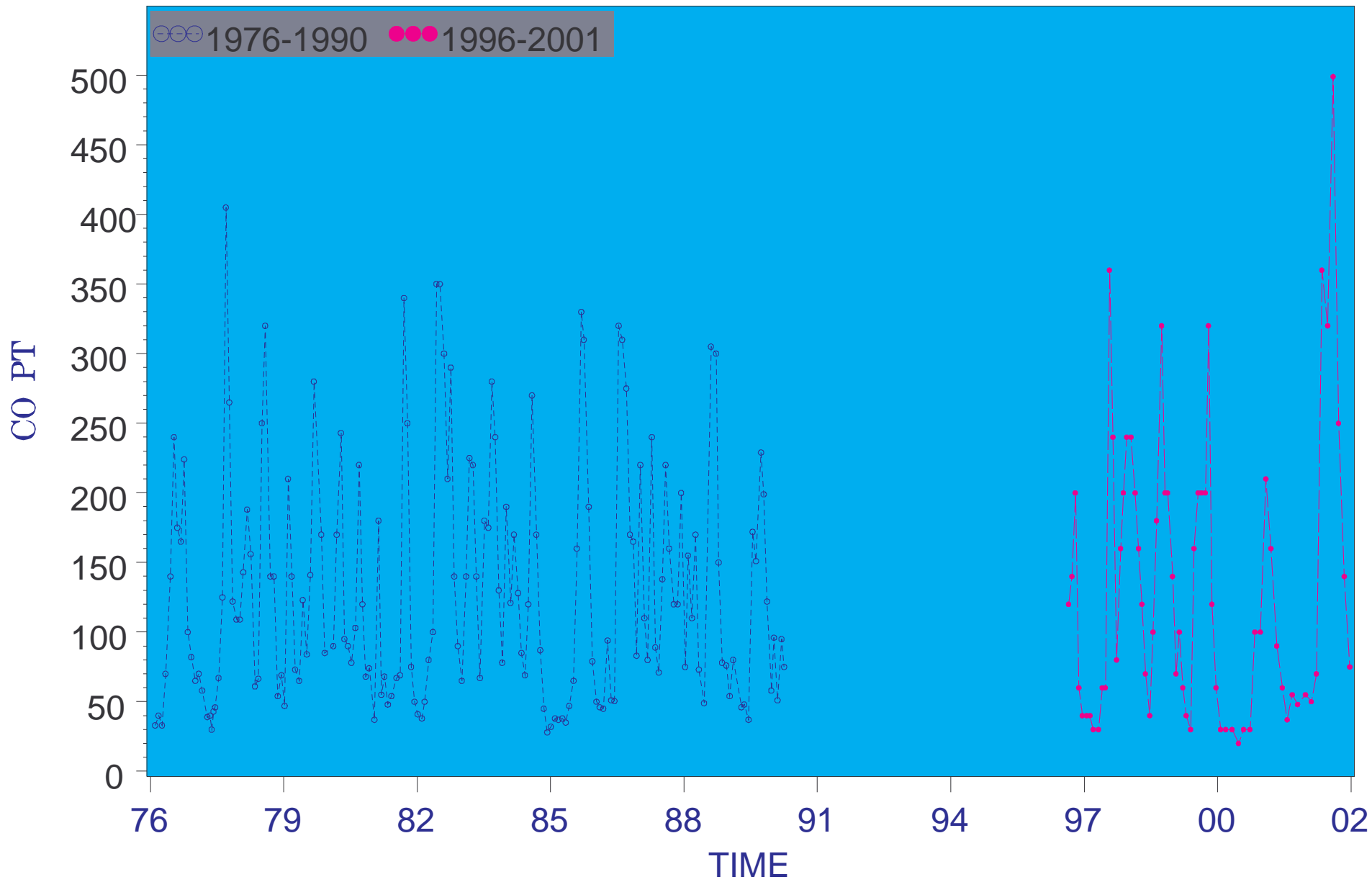


Figure 4.20 c Long-term color at river kilometer 15.5.

Surface Water Color
River Kilometer=23.6

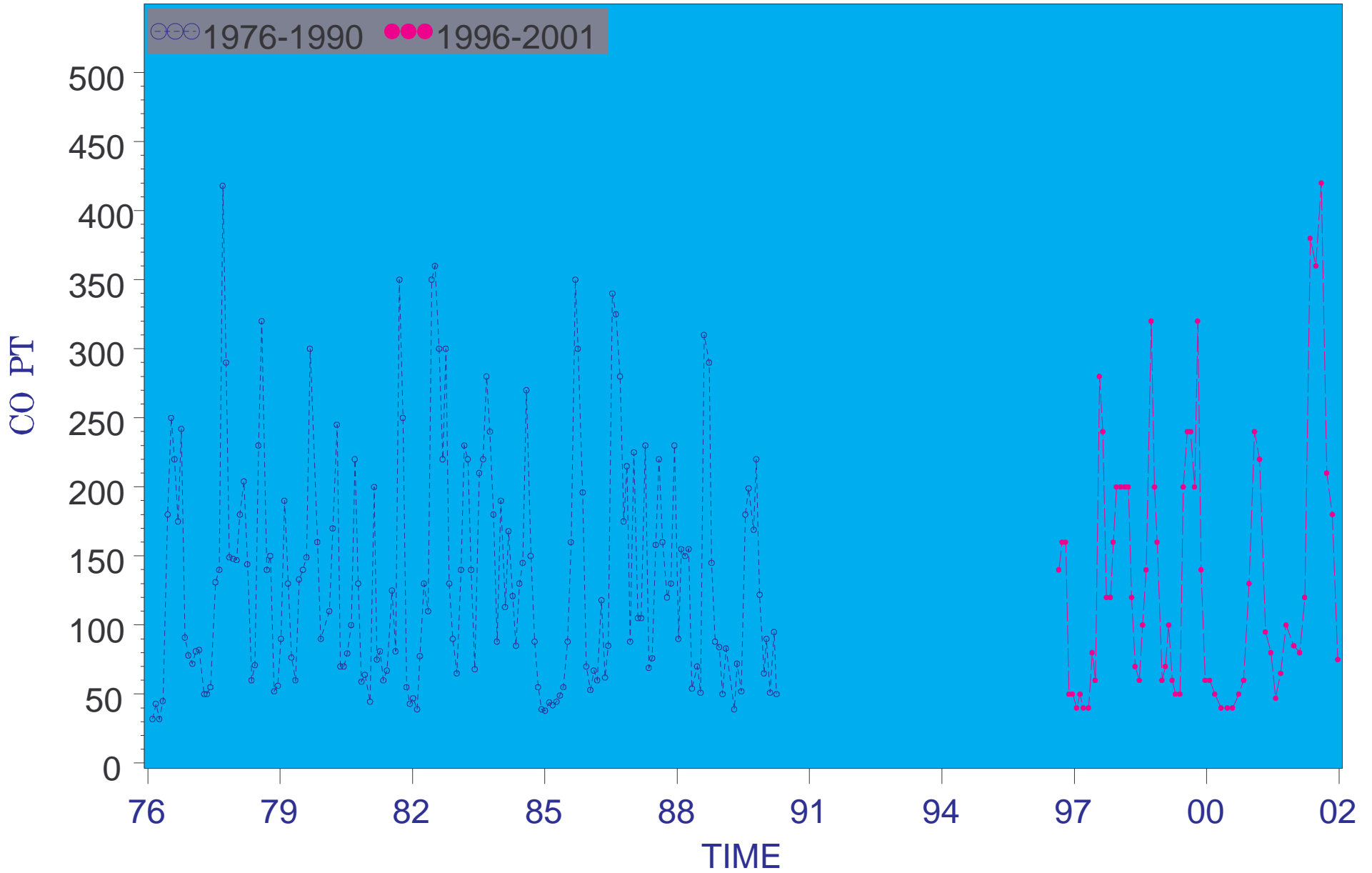


Figure 4.20 d Long-term color at river kilometer 23.6.

Bottom Water Color
River Kilometer=-2.4

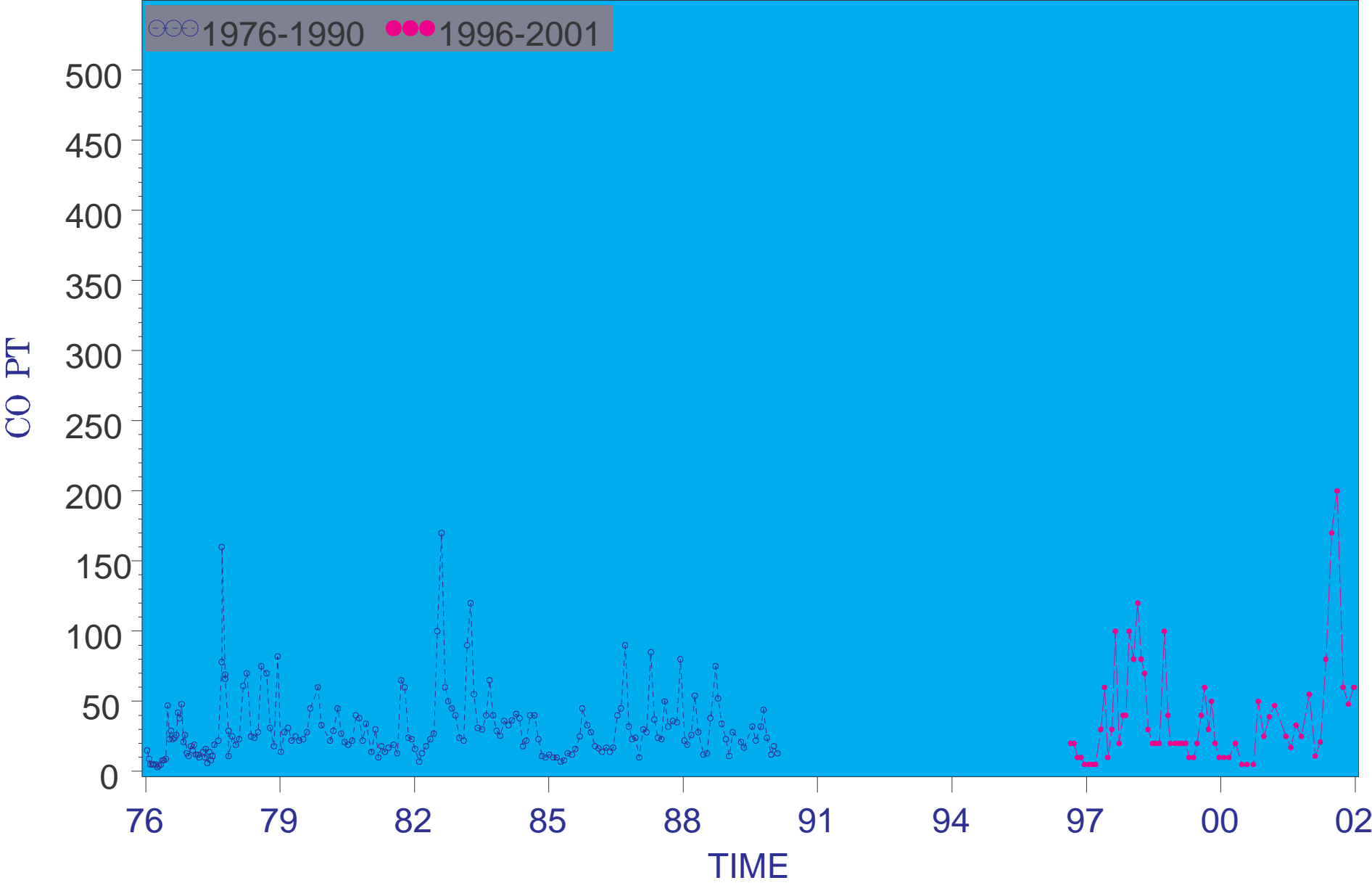


Figure 4.21 a Long-term color at river kilometer -2.4.

Bottom Water Color
River Kilometer=6.6

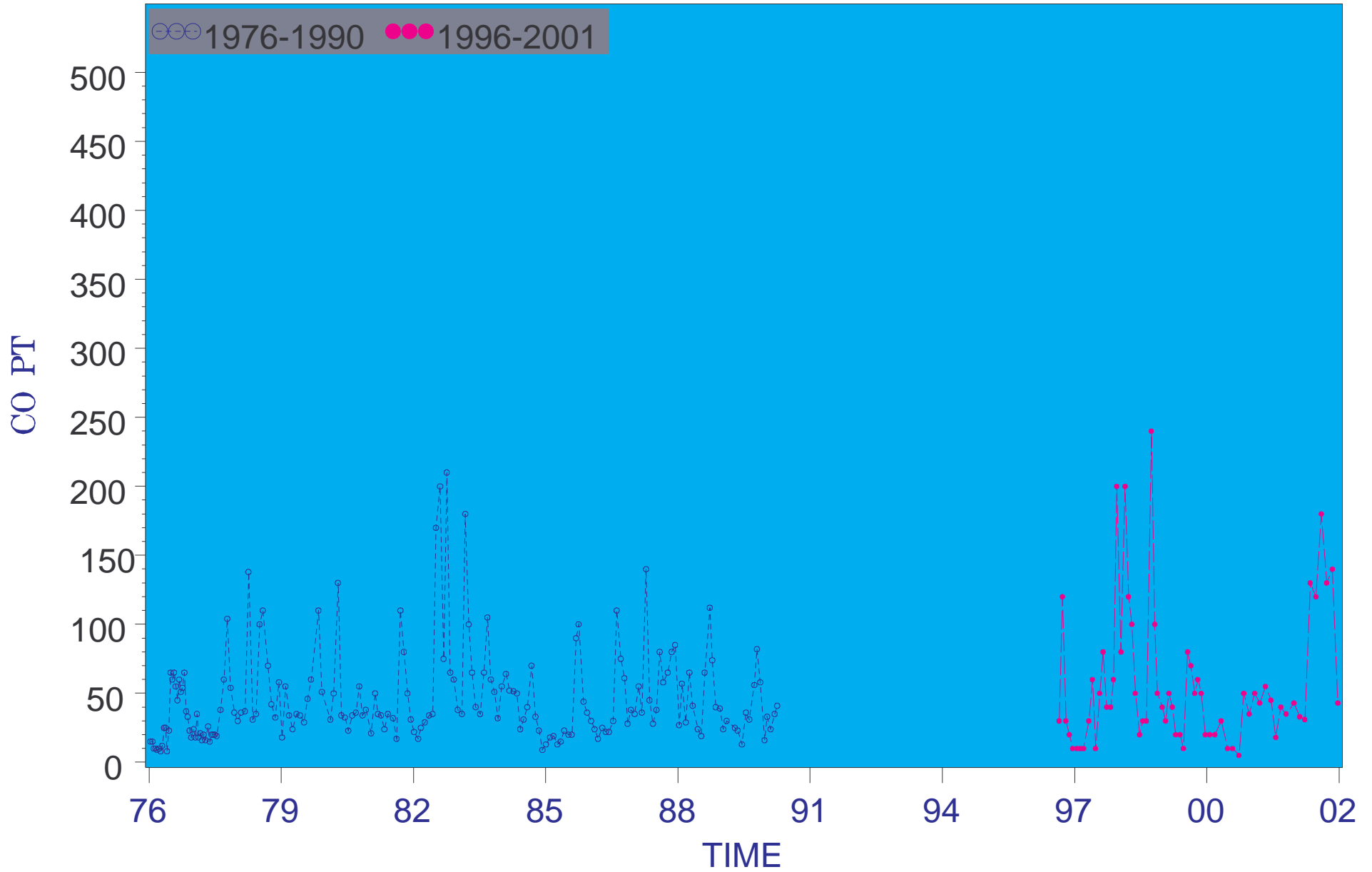


Figure 4.21 b Long-term color at river kilometer 6.6.

Bottom Water Color River Kilometer=15.5

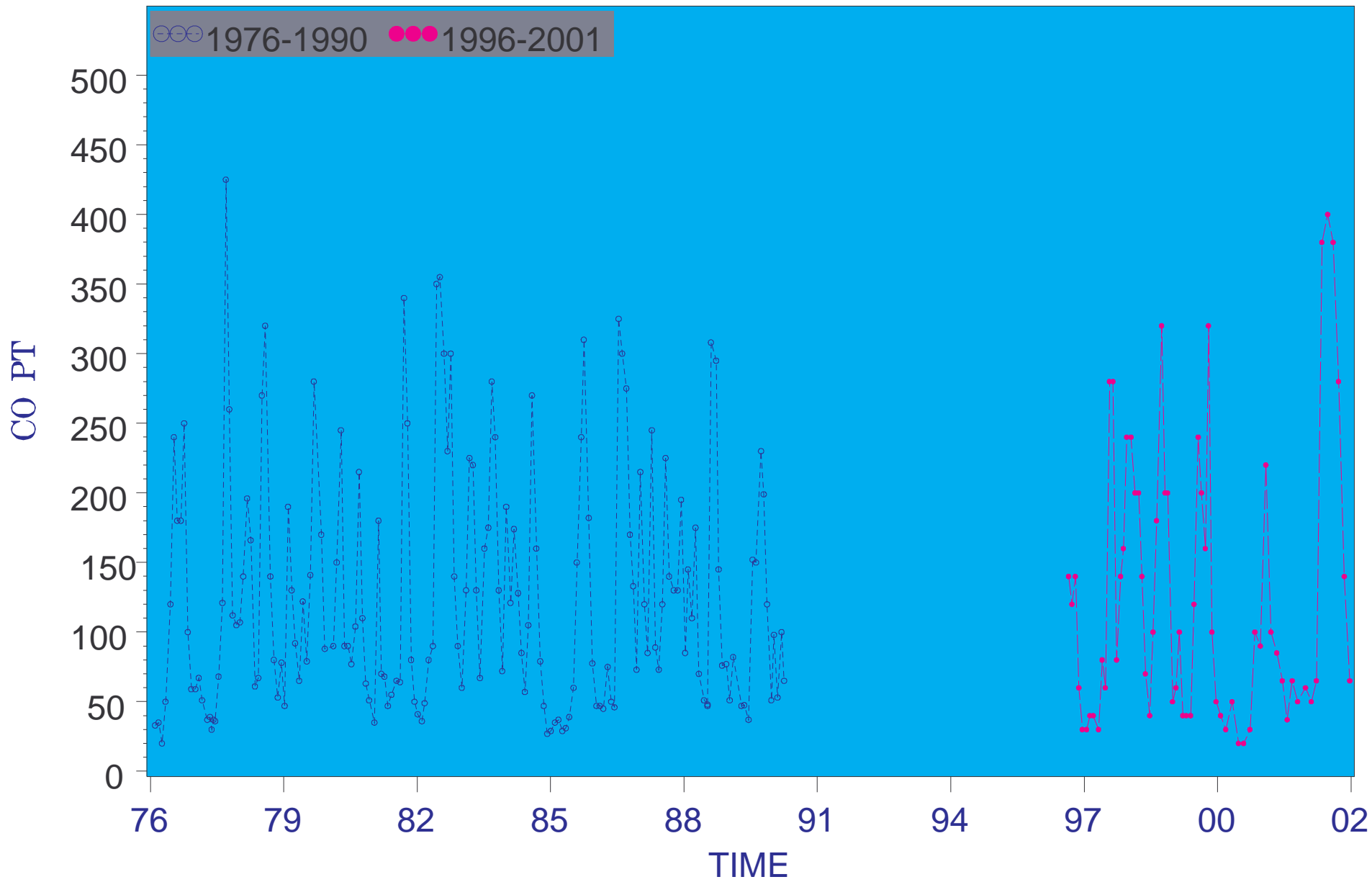


Figure 4.21 c Long-term color at river kilometer 15.5.

Bottom Water Color
River Kilometer=23.6

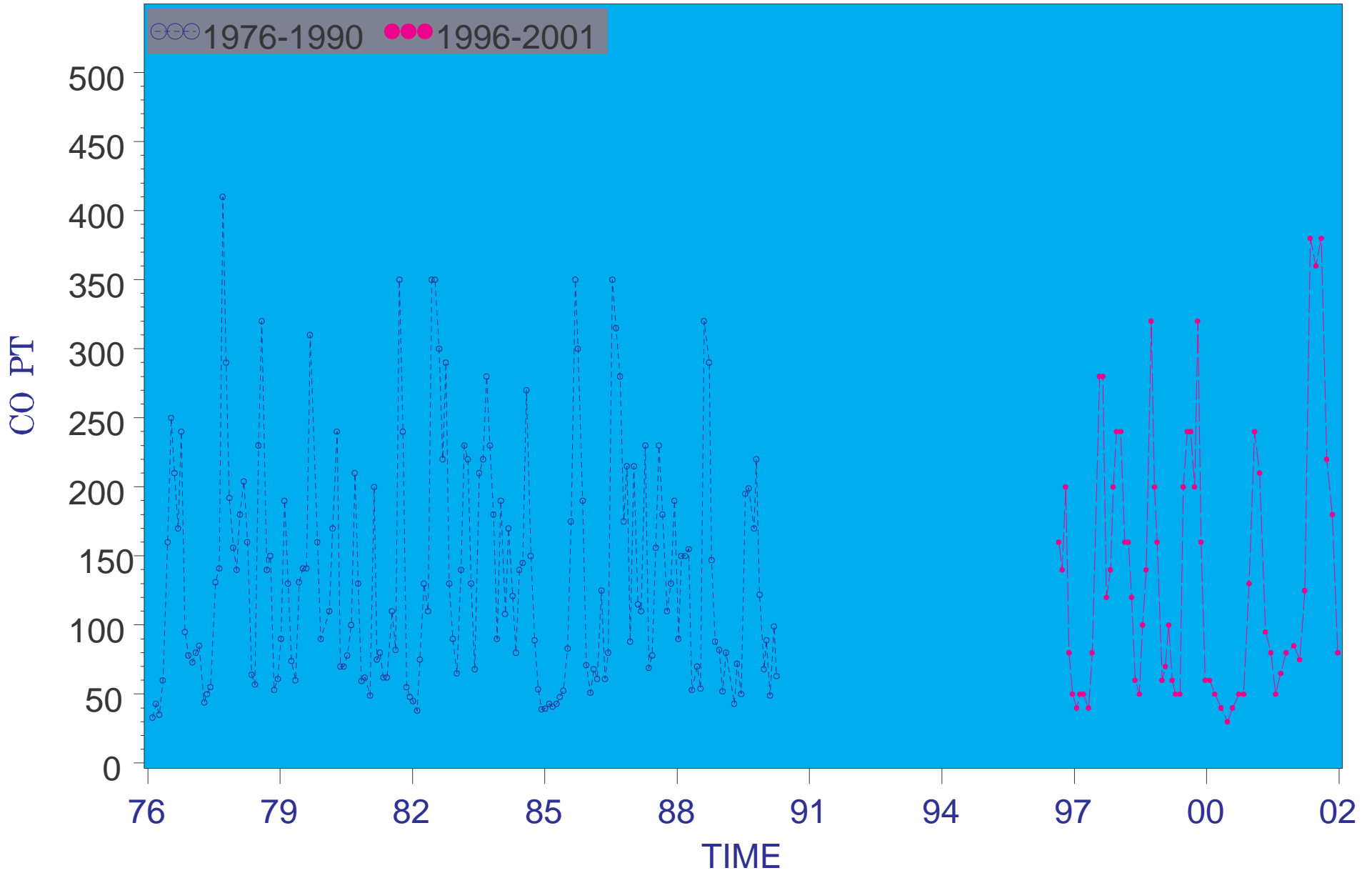


Figure 4.21 d Long-term color at river kilometer 23.6.

Bottom Water Color
River Kilometer=30.4

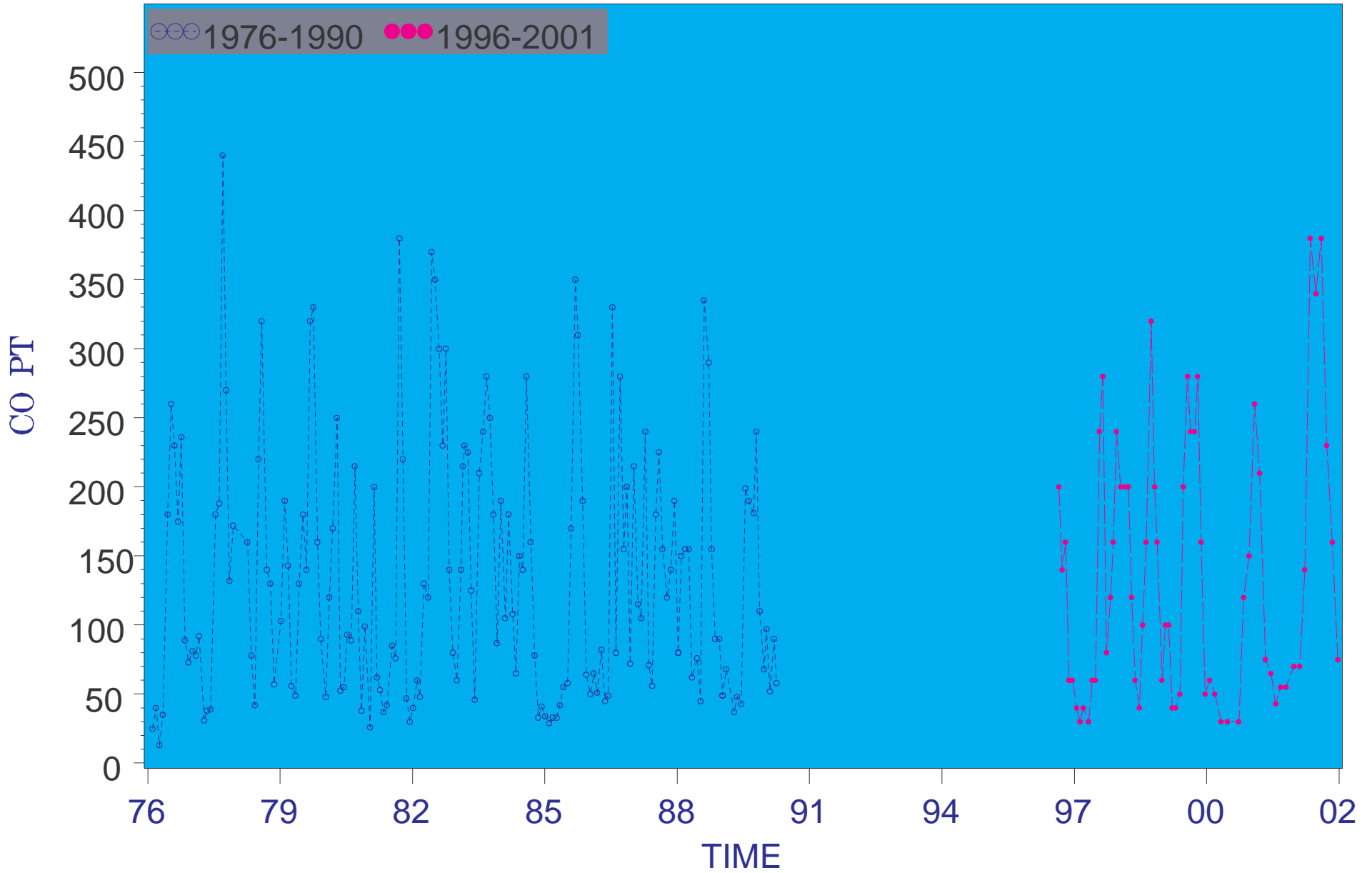


Figure 4.21e Long-term color at river kilometer 30.4.

Surface Turbidity
River Kilometer=-2.4

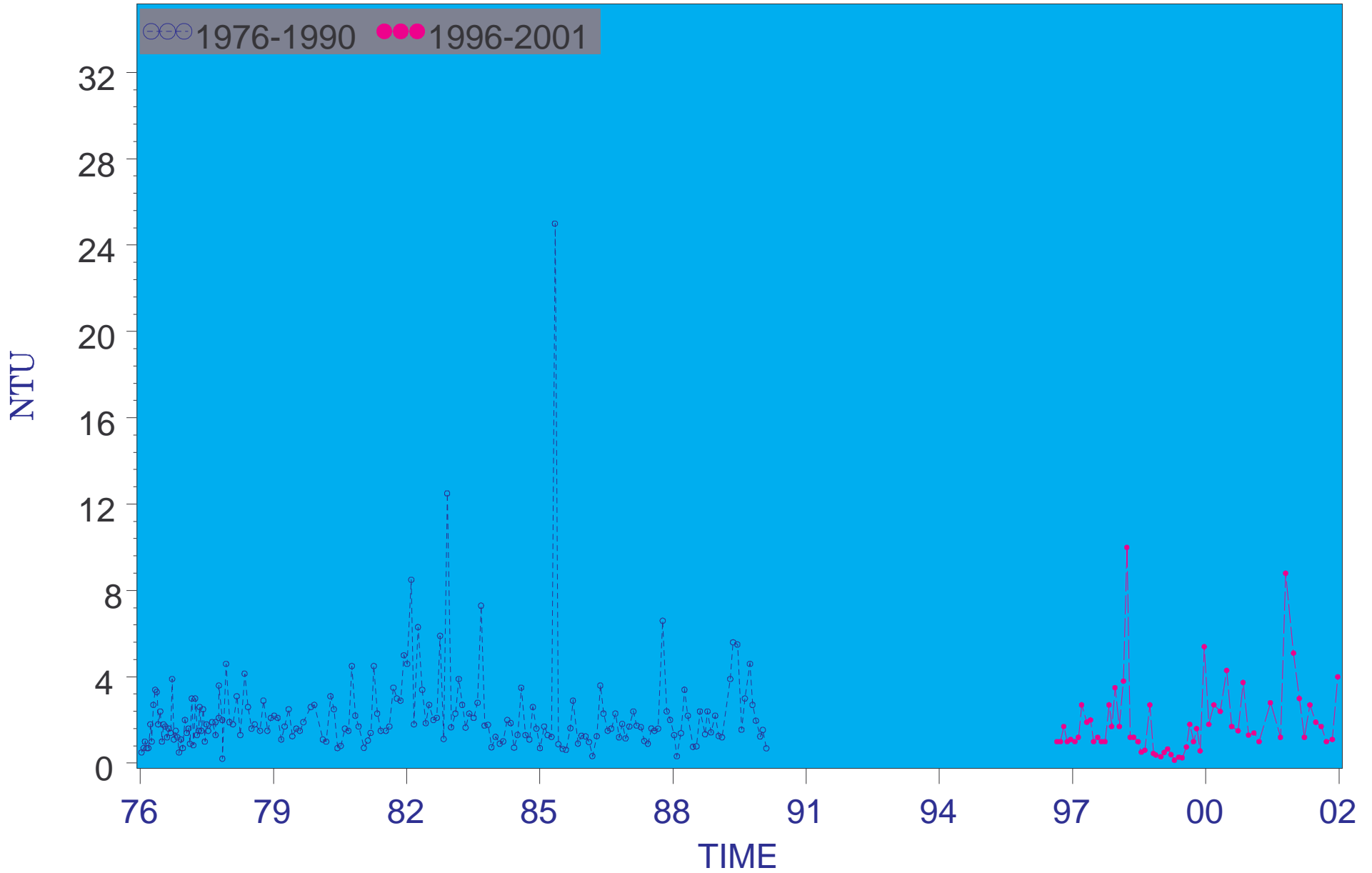


Figure 4.22 a Long-term turbidity at river kilometer -2.4.

Surface Turbidity
River Kilometer=6.6

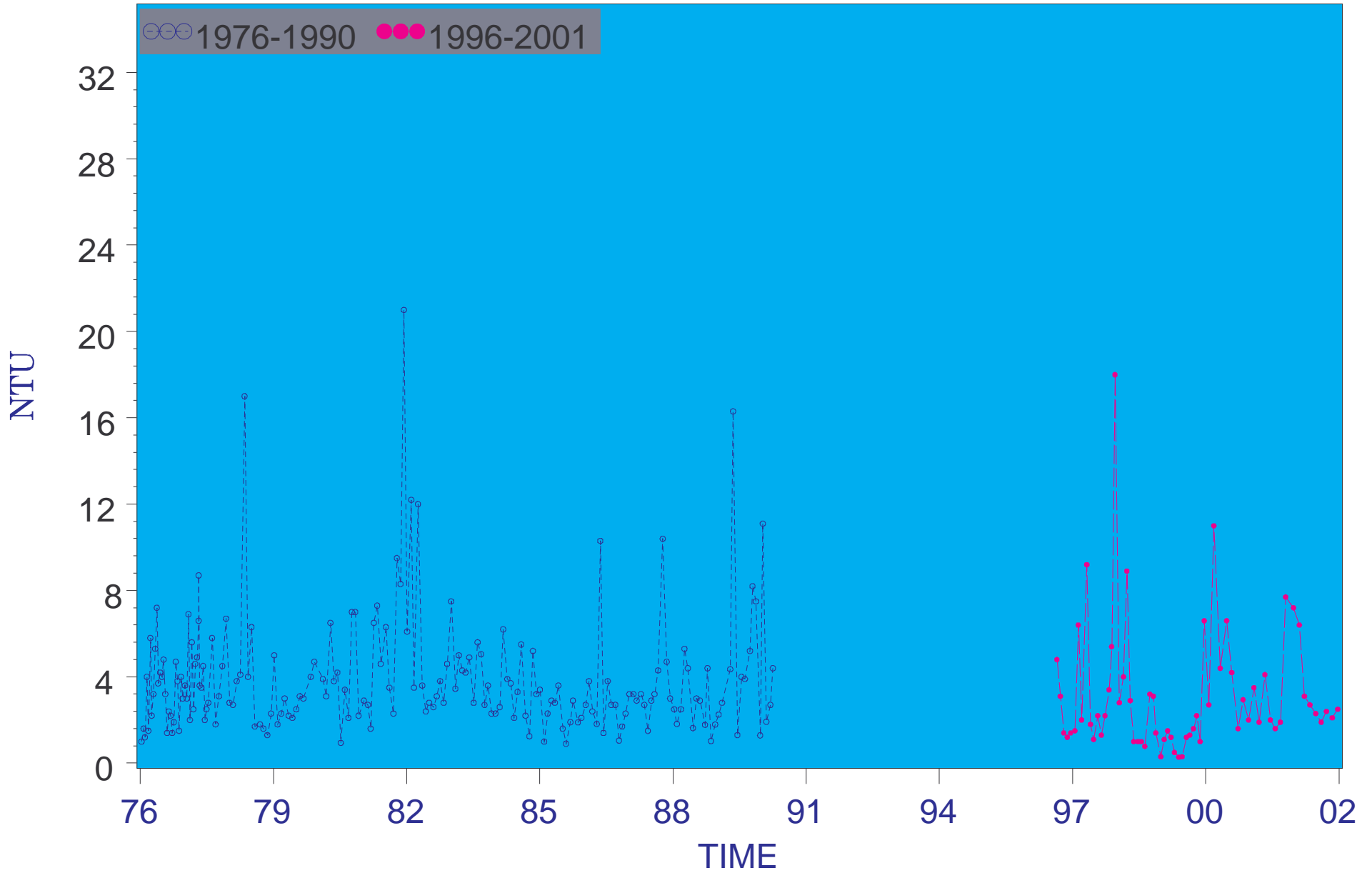


Figure 4.22 b Long-term turbidity at river kilometer 6.6.

Surface Turbidity River Kilometer=15.5

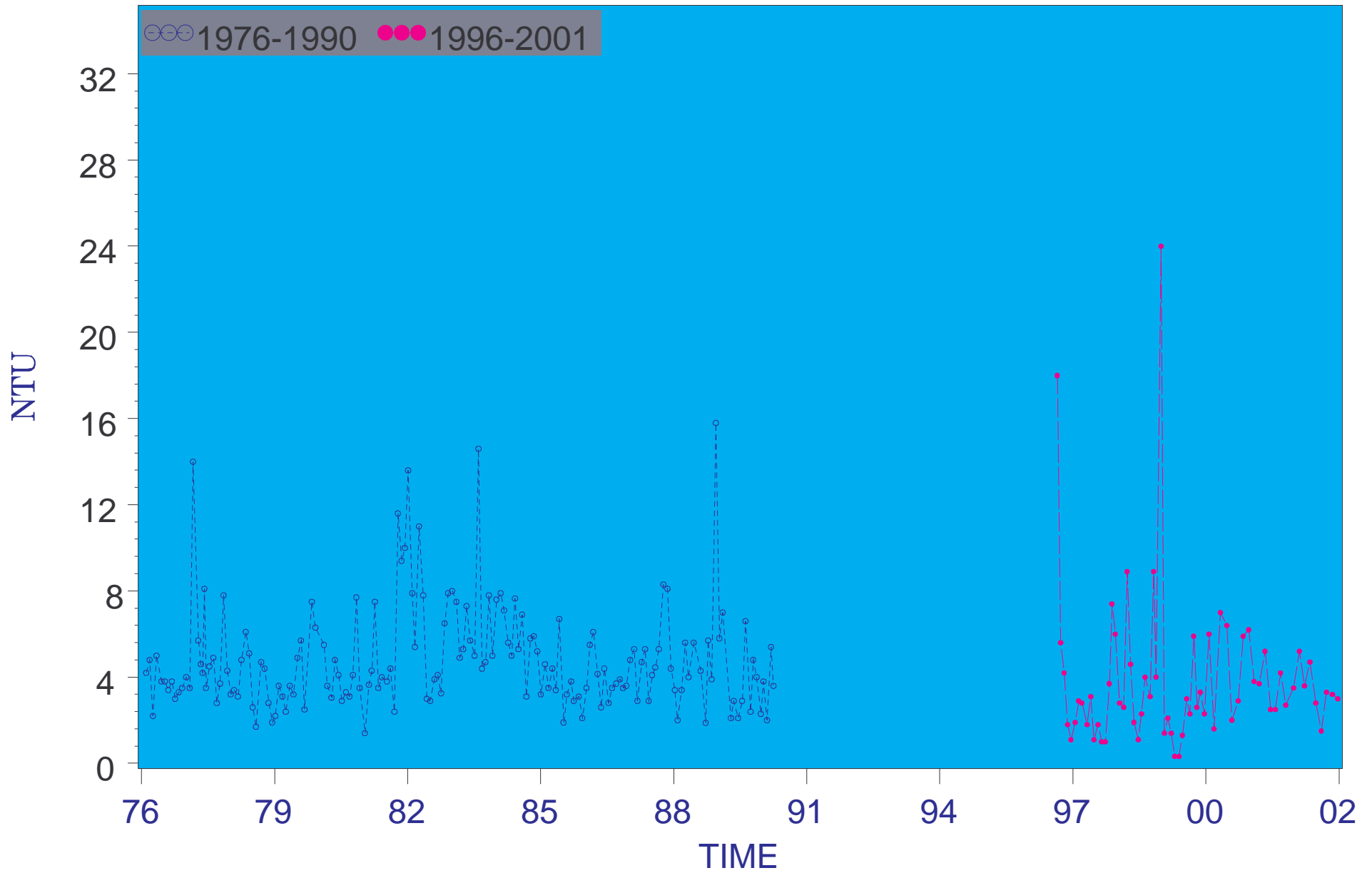


Figure 4.22 c Long-term turbidity at river kilometer 15.5.

Surface Turbidity
River Kilometer=23.6

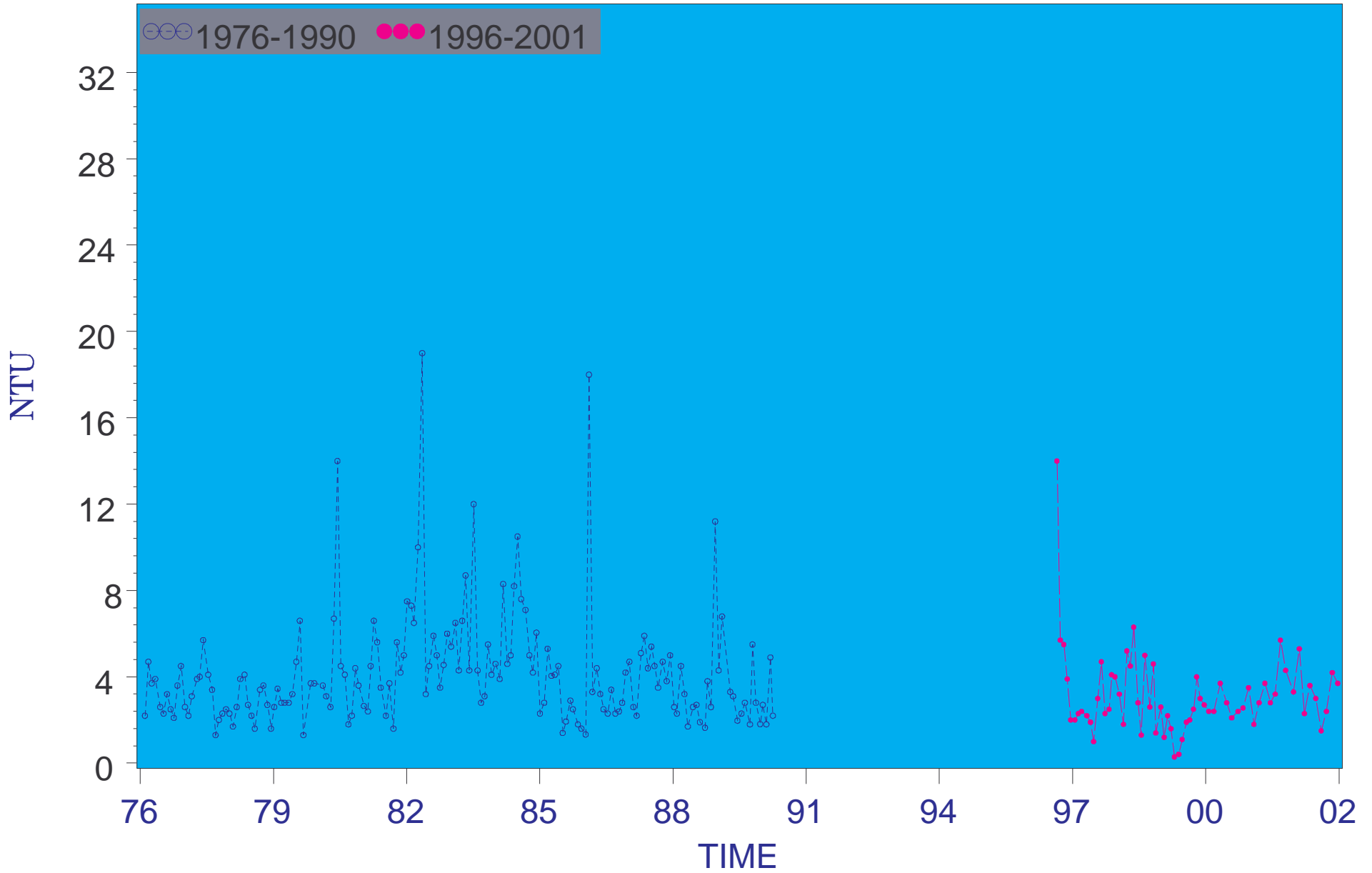


Figure 4.22 d Long-term turbidity at river kilometer 23.6.

Surface Turbidity
River Kilometer=30.4

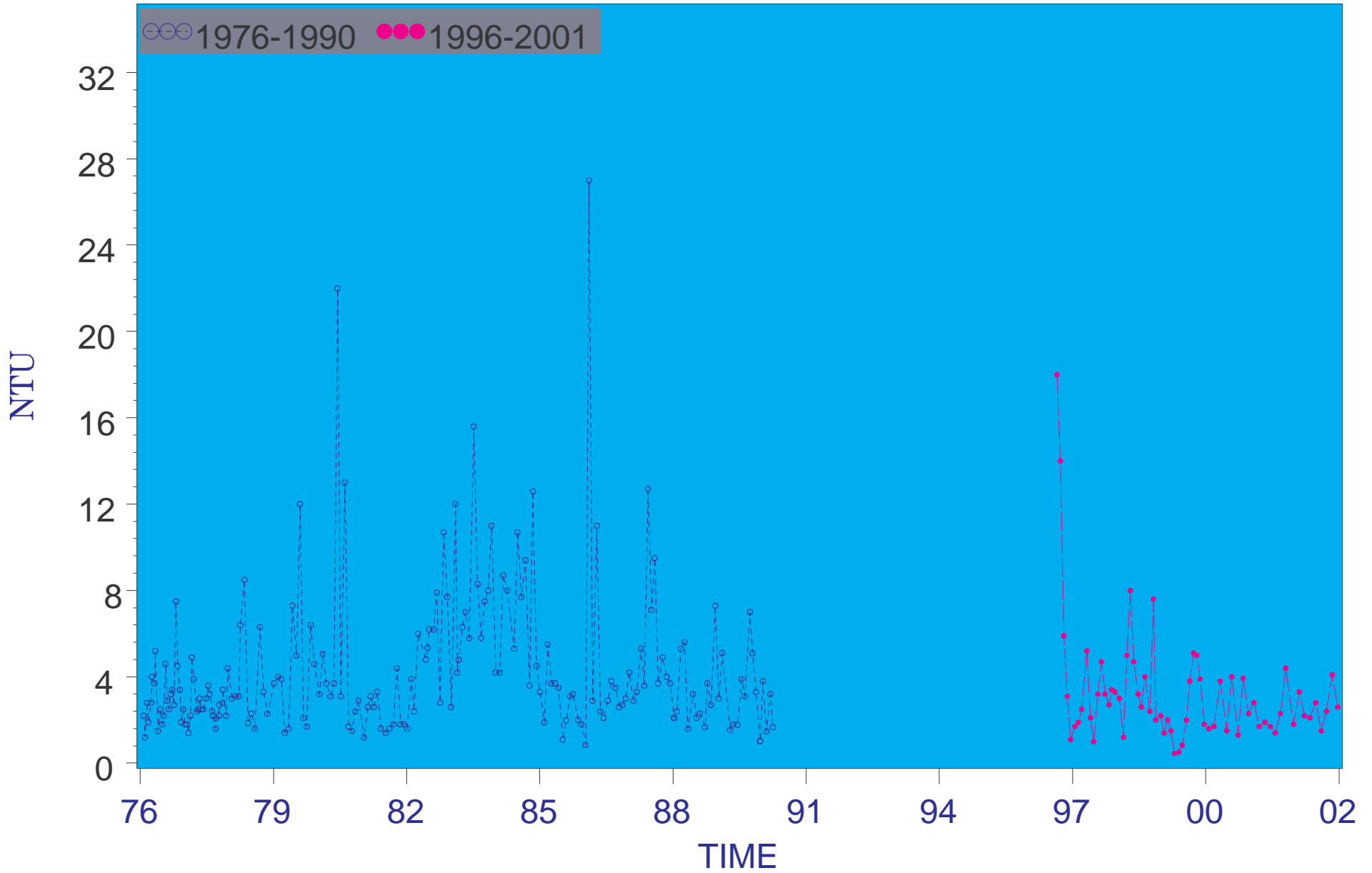


Figure 4.22 e Long-term turbidity at river kilometer 30.4.

Bottom Turbidity
River Kilometer=-2.4

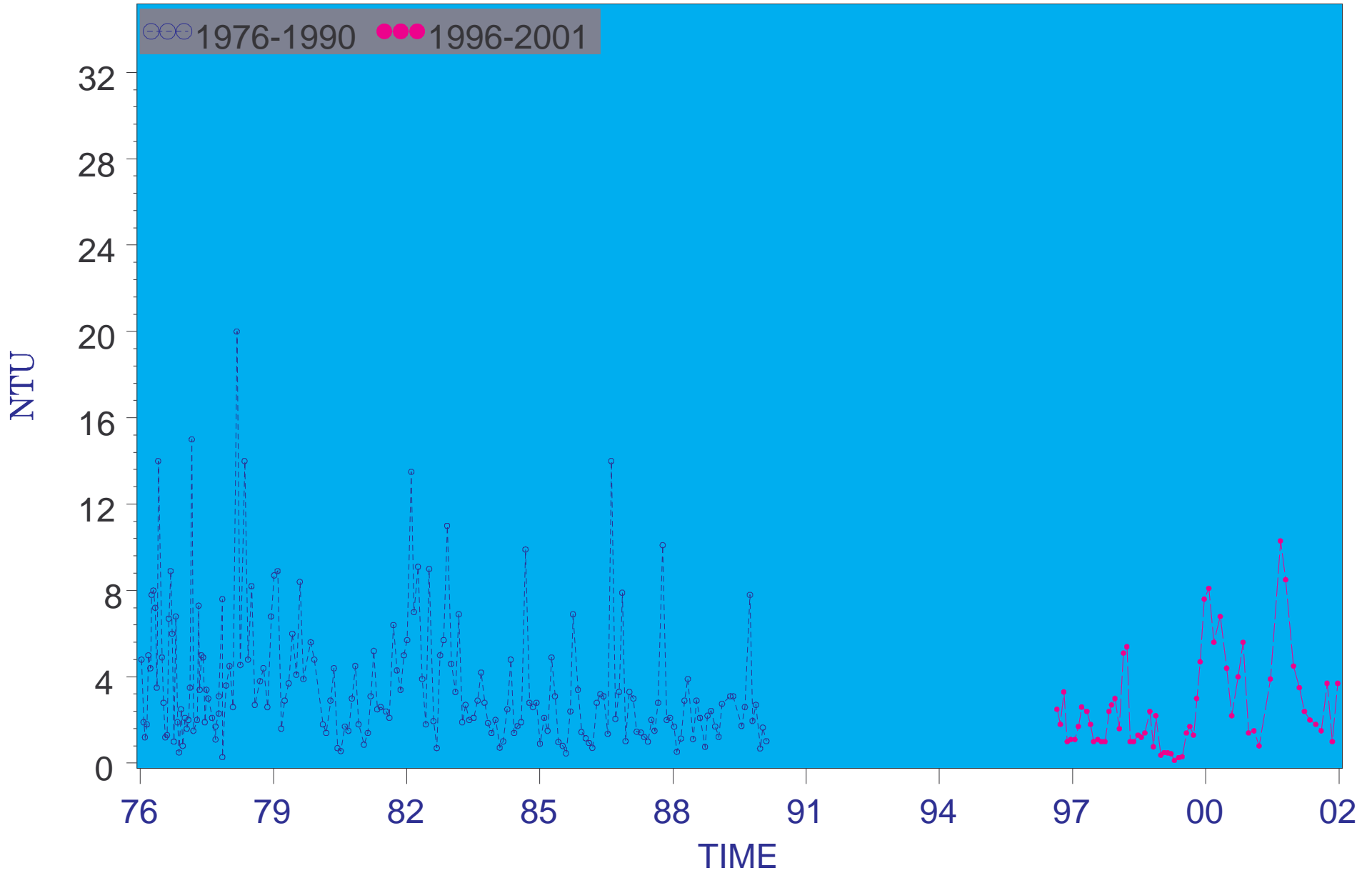


Figure 4.23 a Long-term turbidity at river kilometer -2.4.

Bottom Turbidity River Kilometer=6.6

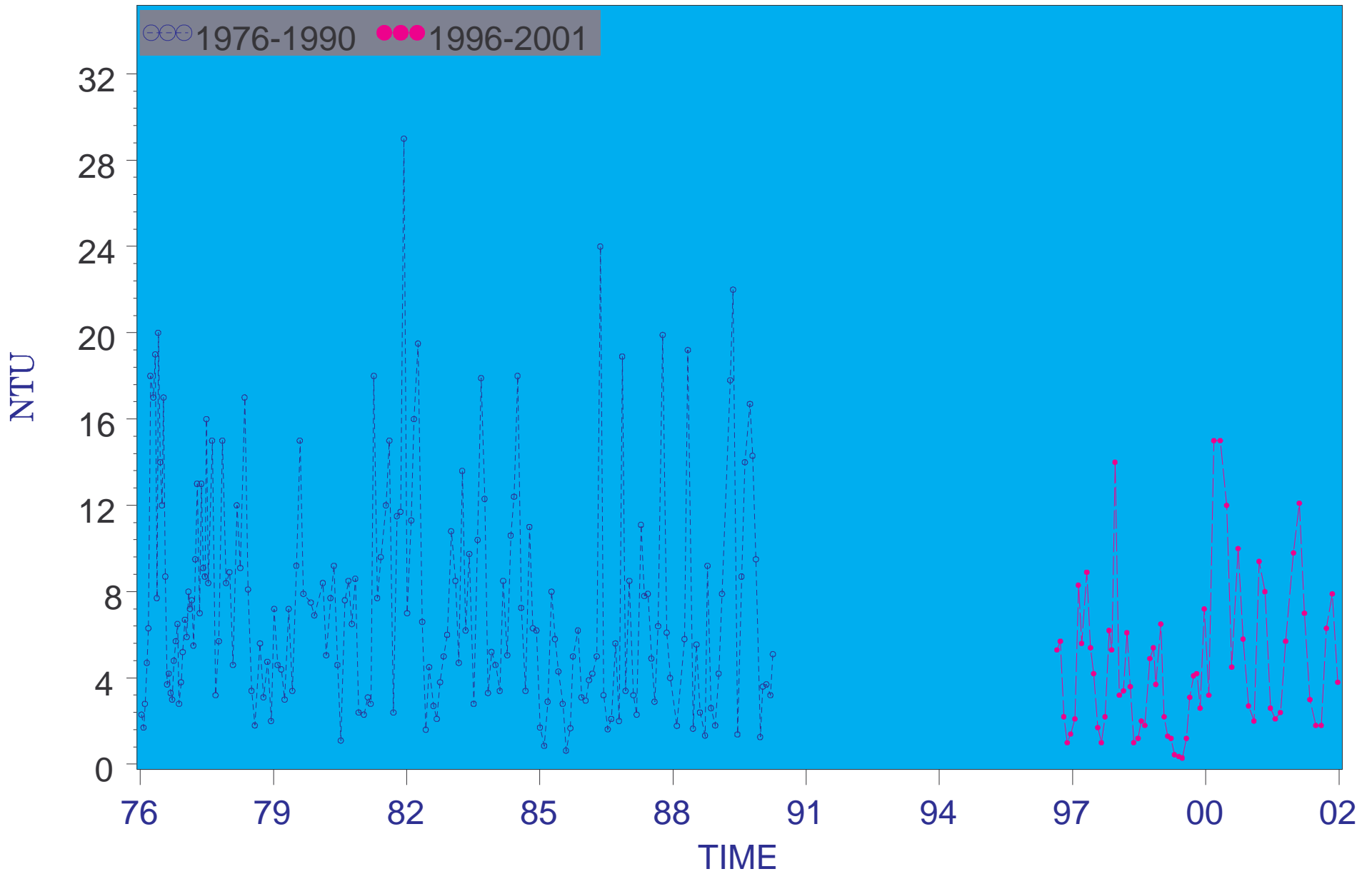


Figure 4.23 b Long-term turbidity at river kilometer 6.6.

Bottom Turbidity River Kilometer=15.5

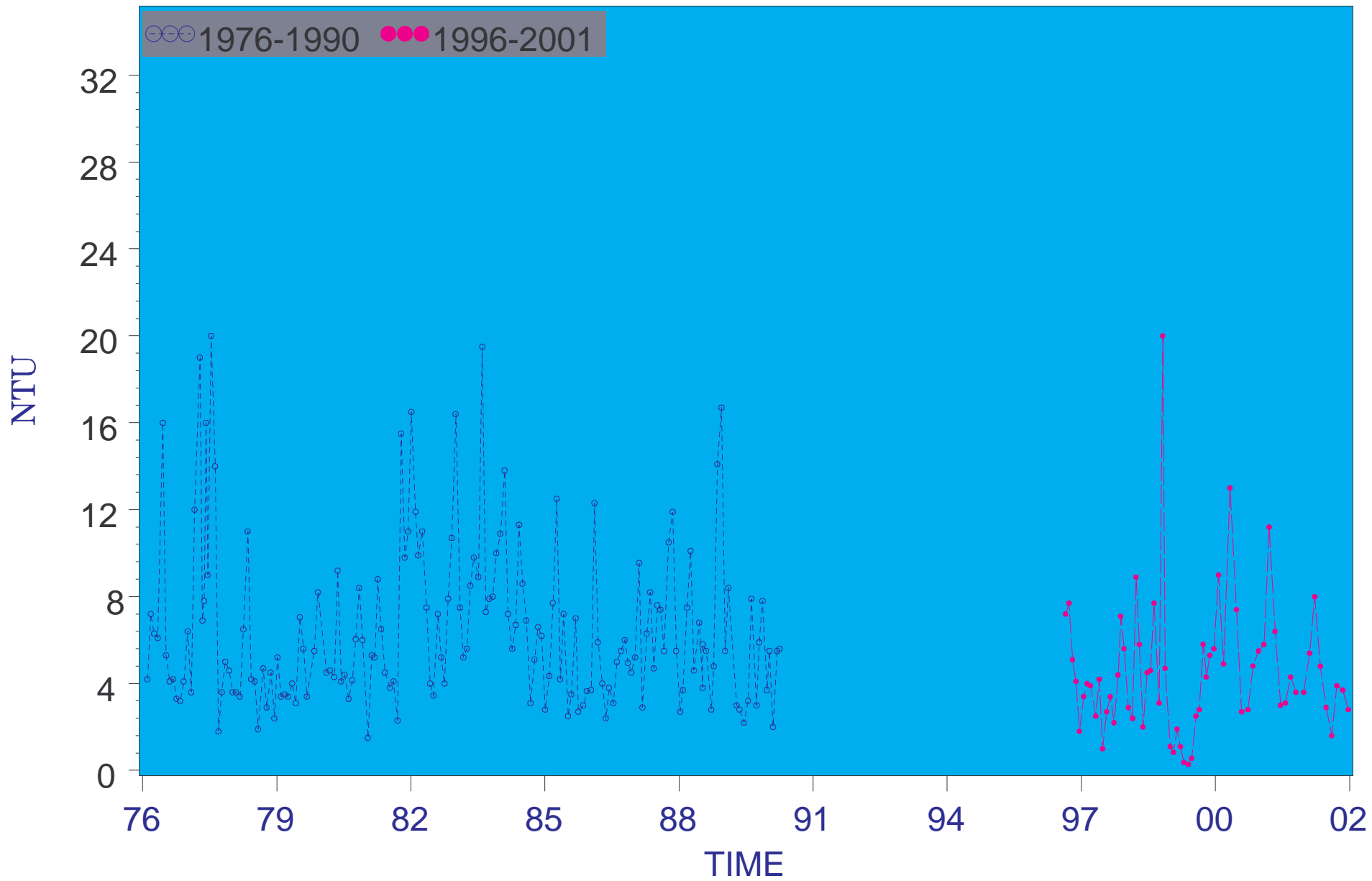


Figure 4.23 c Long-term turbidity at river kilometer 15.5.

Bottom Turbidity River Kilometer=23.6

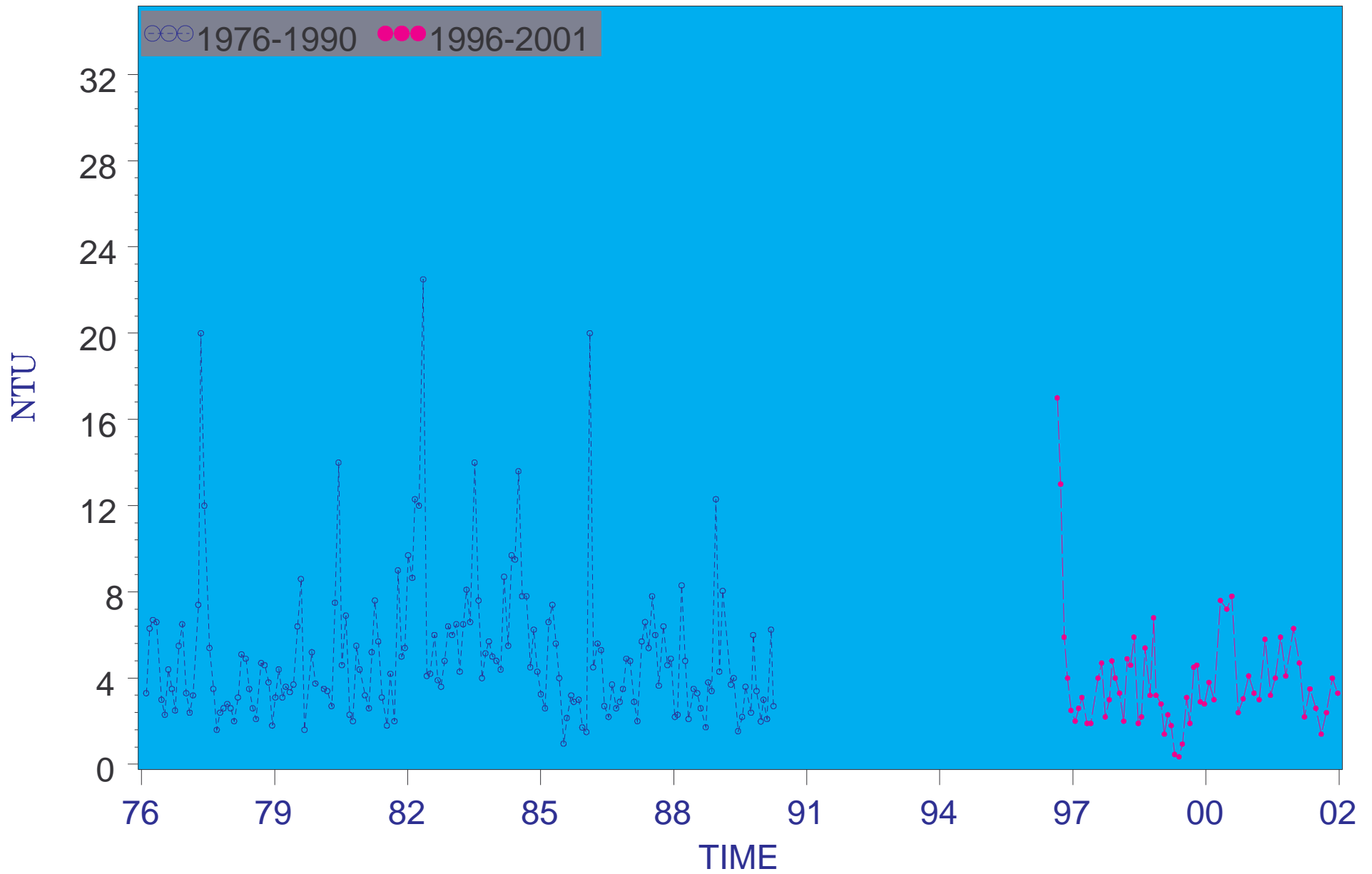


Figure 4.23 d Long-term turbidity at river kilometer 23.6.

Bottom Turbidity
River Kilometer=30.4

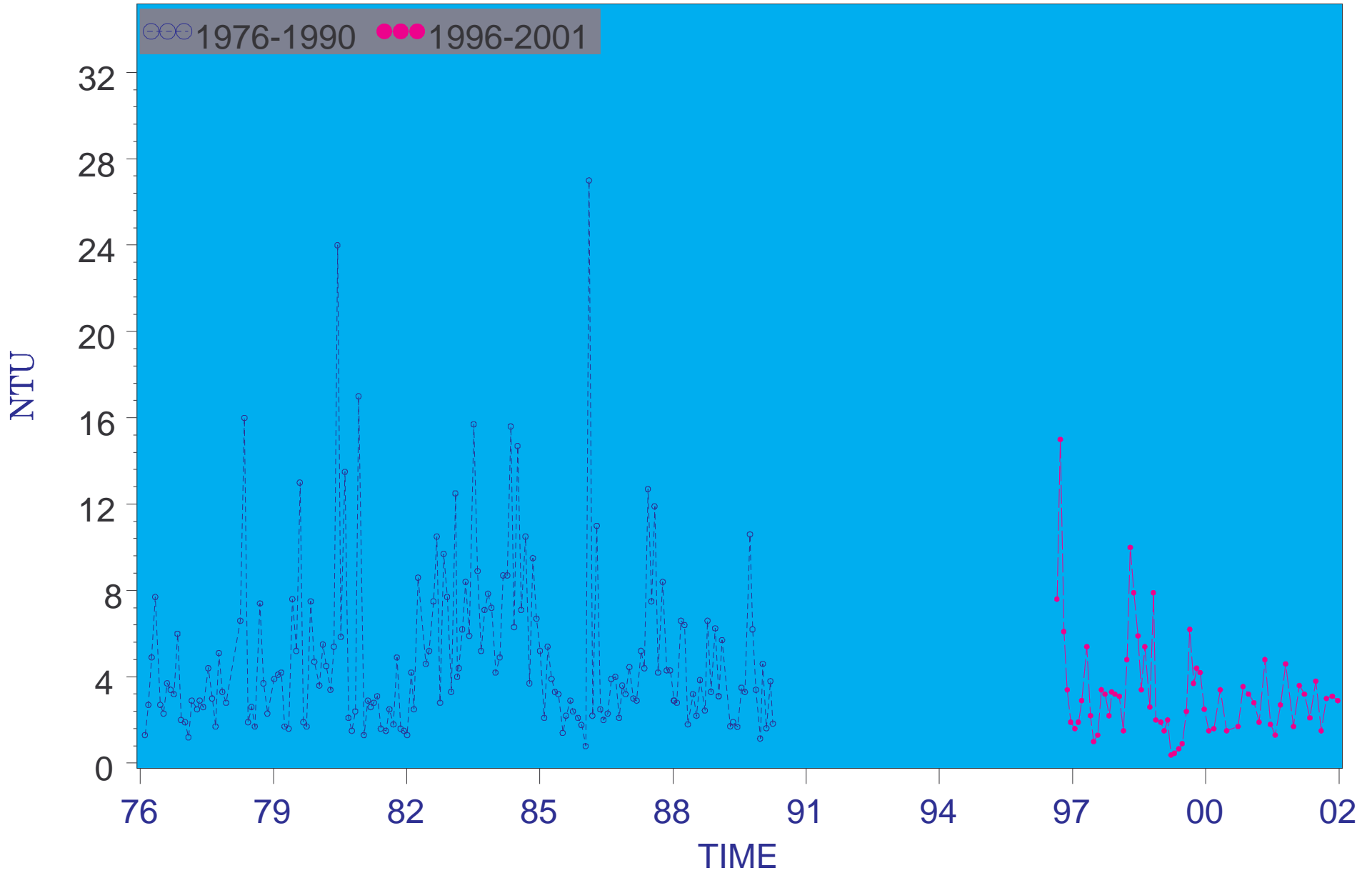


Figure 4.23 e Long-term turbidity at river kilometer 30.4.

Surface Nitrite/Nitrate Nitrogen Concentrations River Kilometer=-2.4

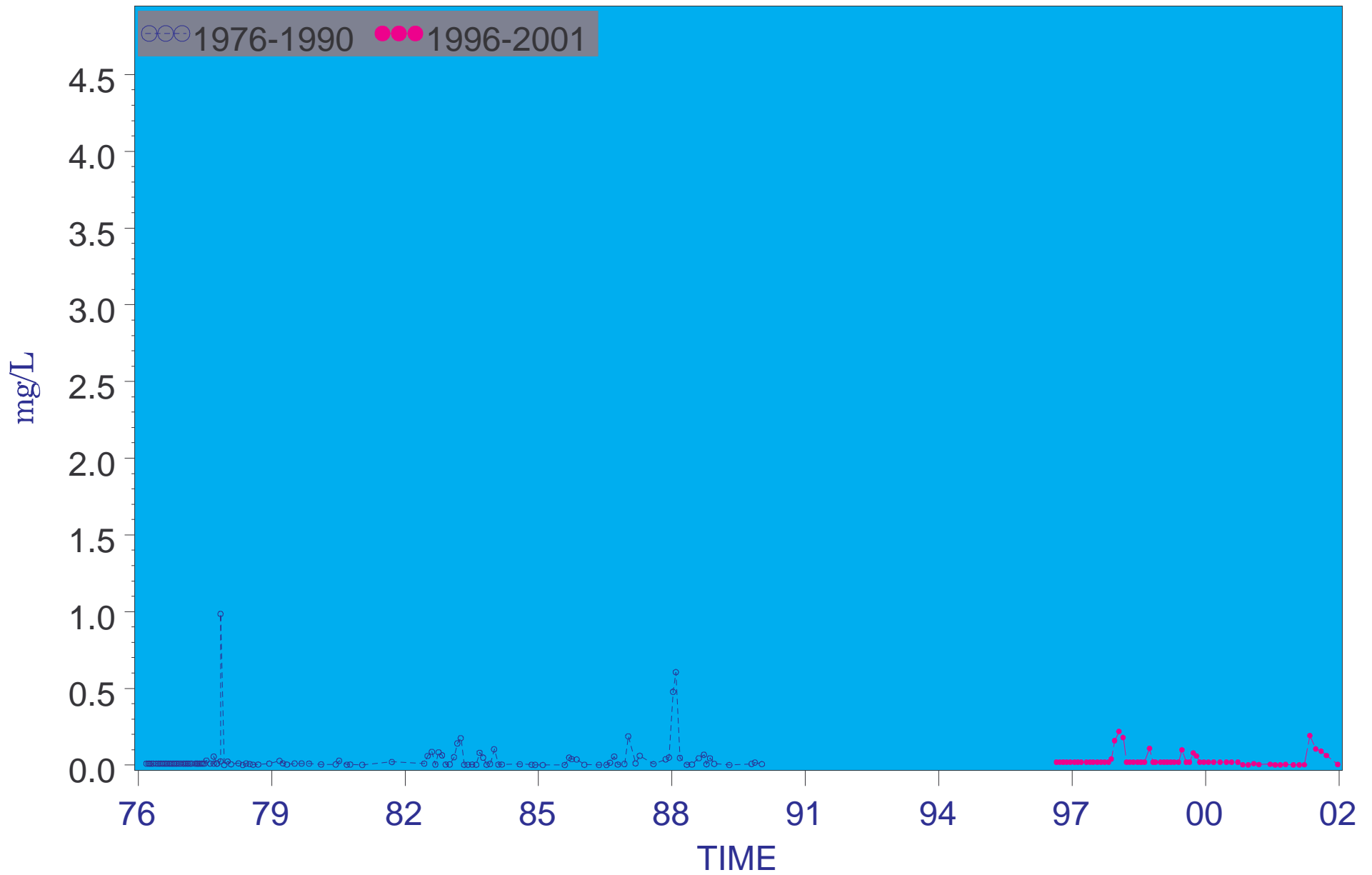


Figure 4.24 a Long-term nitrite/nitrate nitrogen at river kilometer -2.4.

Surface Nitrite/Nitrate Nitrogen Concentrations River Kilometer=6.6

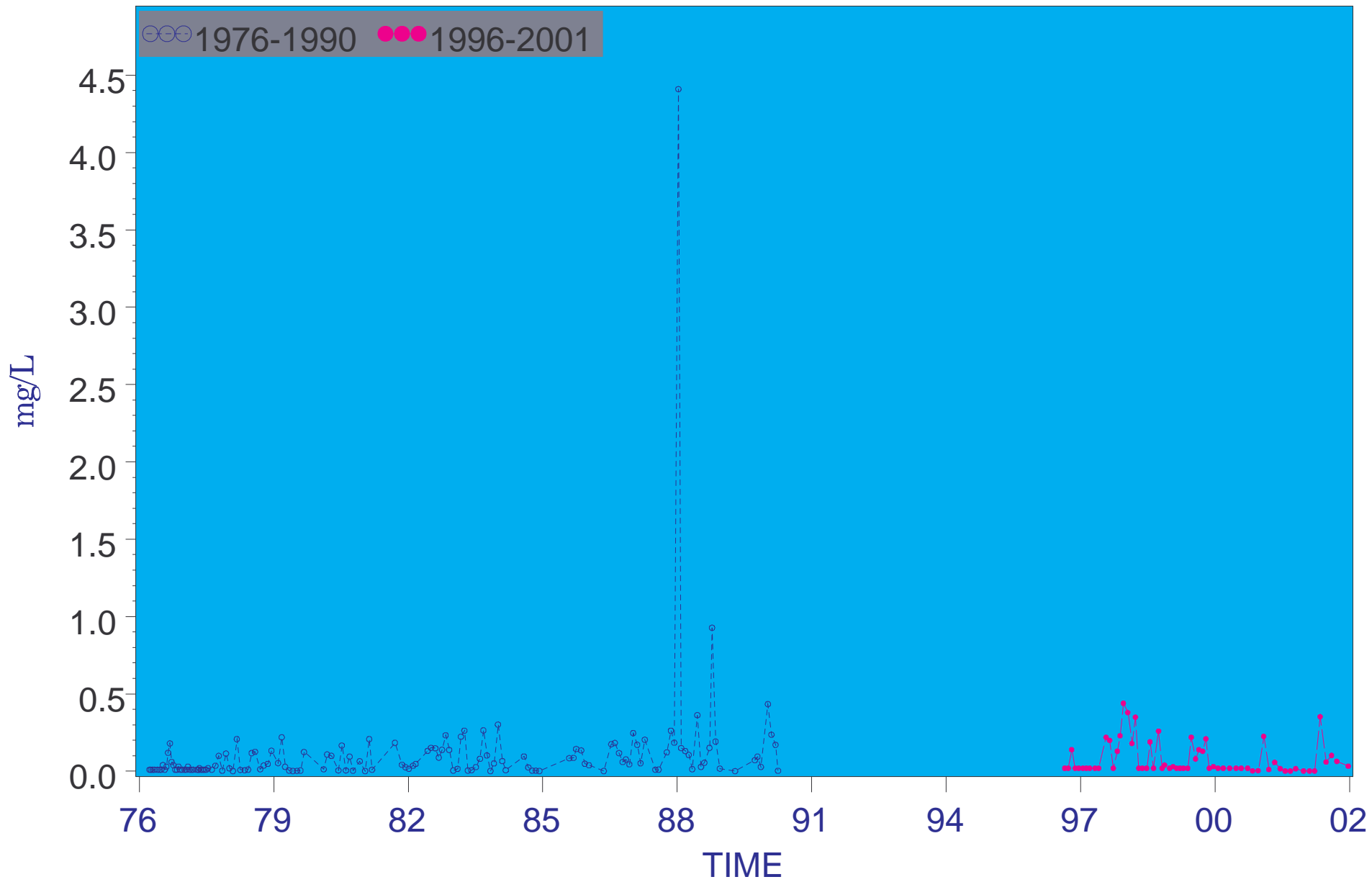


Figure 4.24 b Long-term nitrite/nitrate nitrogen at river kilometer 6.6.

Surface Nitrite/Nitrate Nitrogen Concentrations River Kilometer=15.5

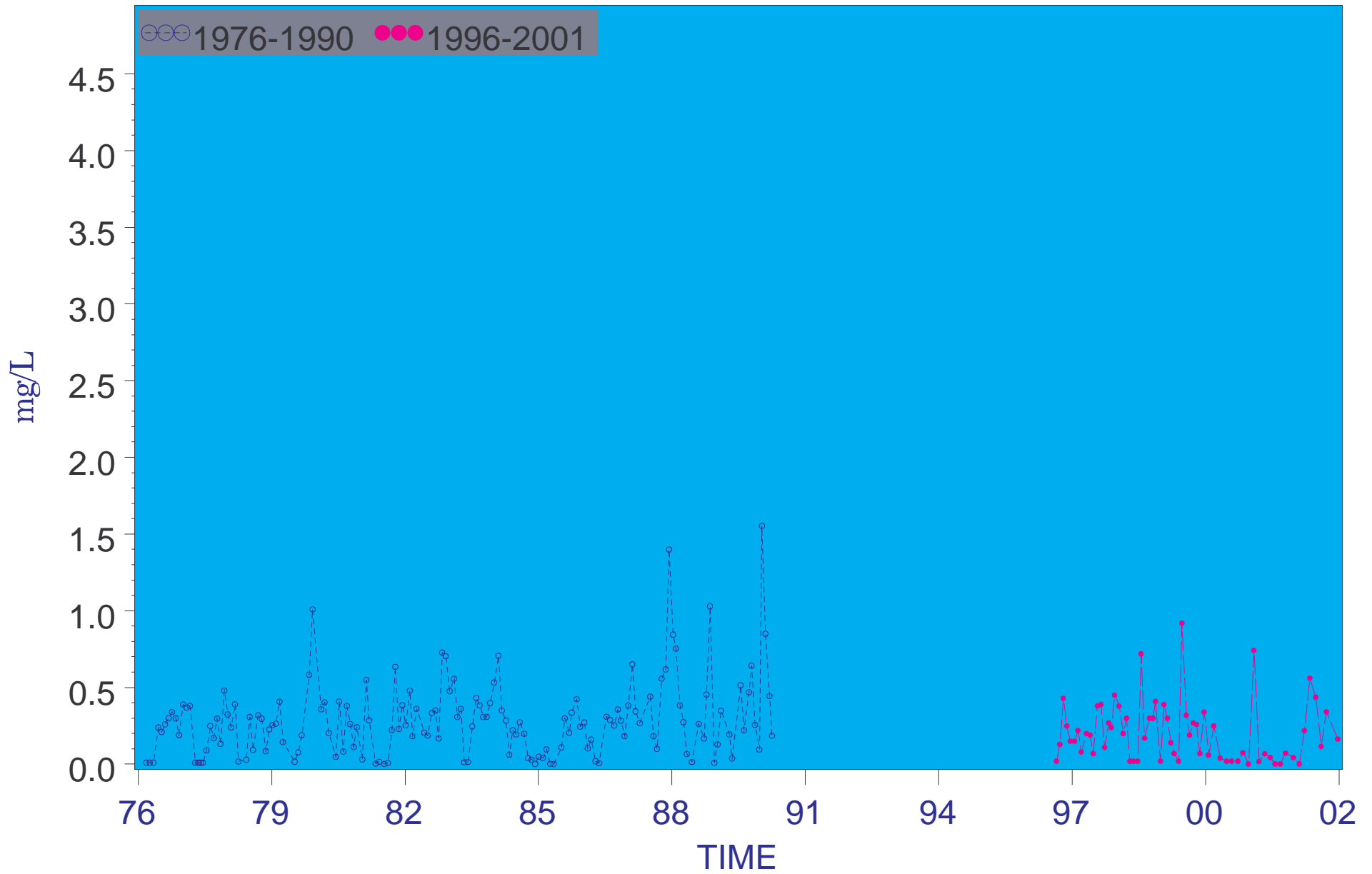


Figure 4.24 c Long-term nitrite/nitrate nitrogen at river kilometer 15.5.

Surface Nitrite/Nitrate Nitrogen Concentrations River Kilometer=23.6

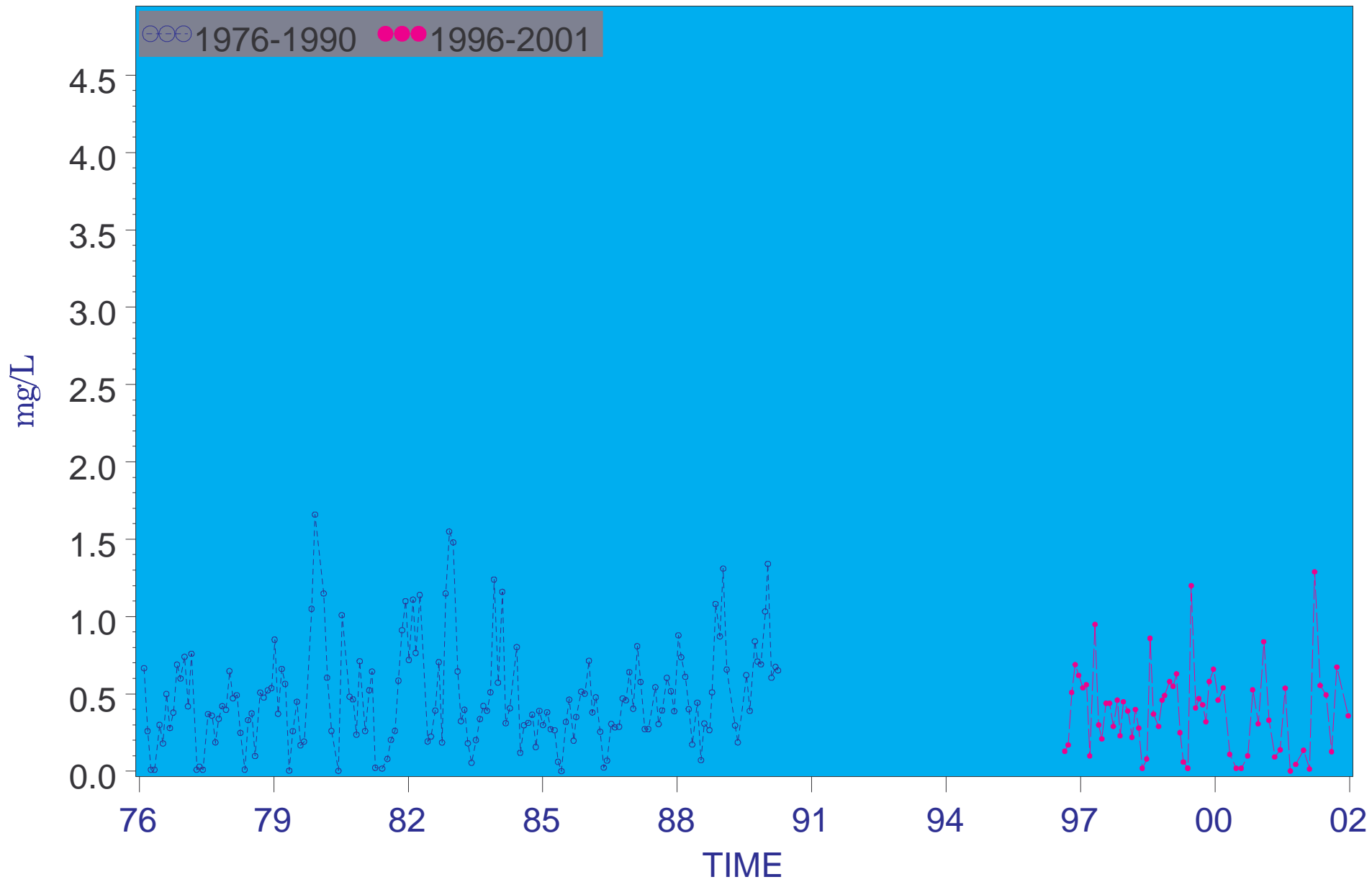


Figure 4.24 d Long-term nitrite/nitrate nitrogen at river kilometer 23.6.

Surface Nitrite/Nitrate Nitrogen Concentrations River Kilometer=30.4

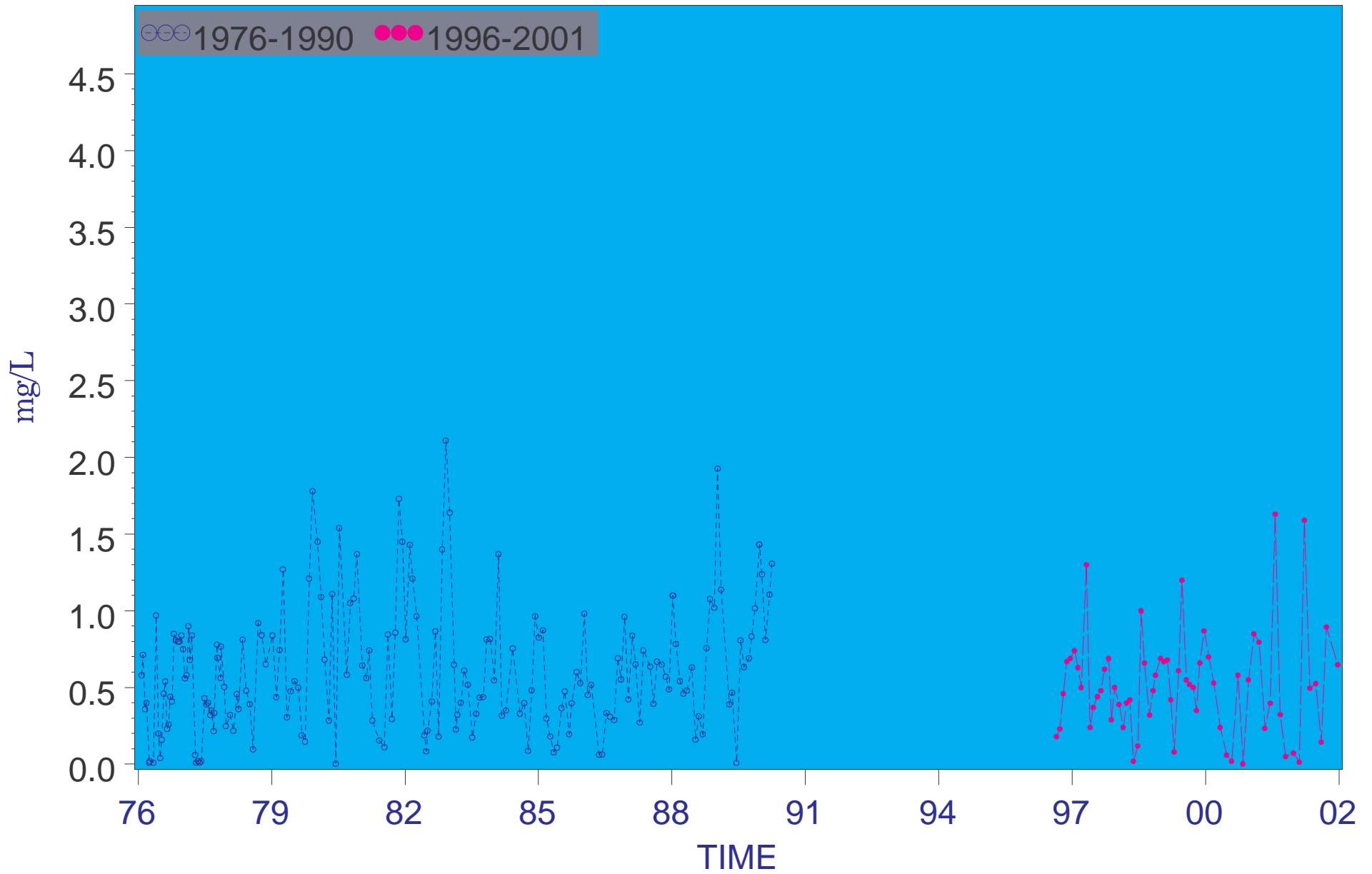


Figure 4.24 e Long-term nitrite/nitrate nitrogen at river kilometer 30.4.

Bottom Nitrite/Nitrate Nitrogen Concentrations River Kilometer=-2.4

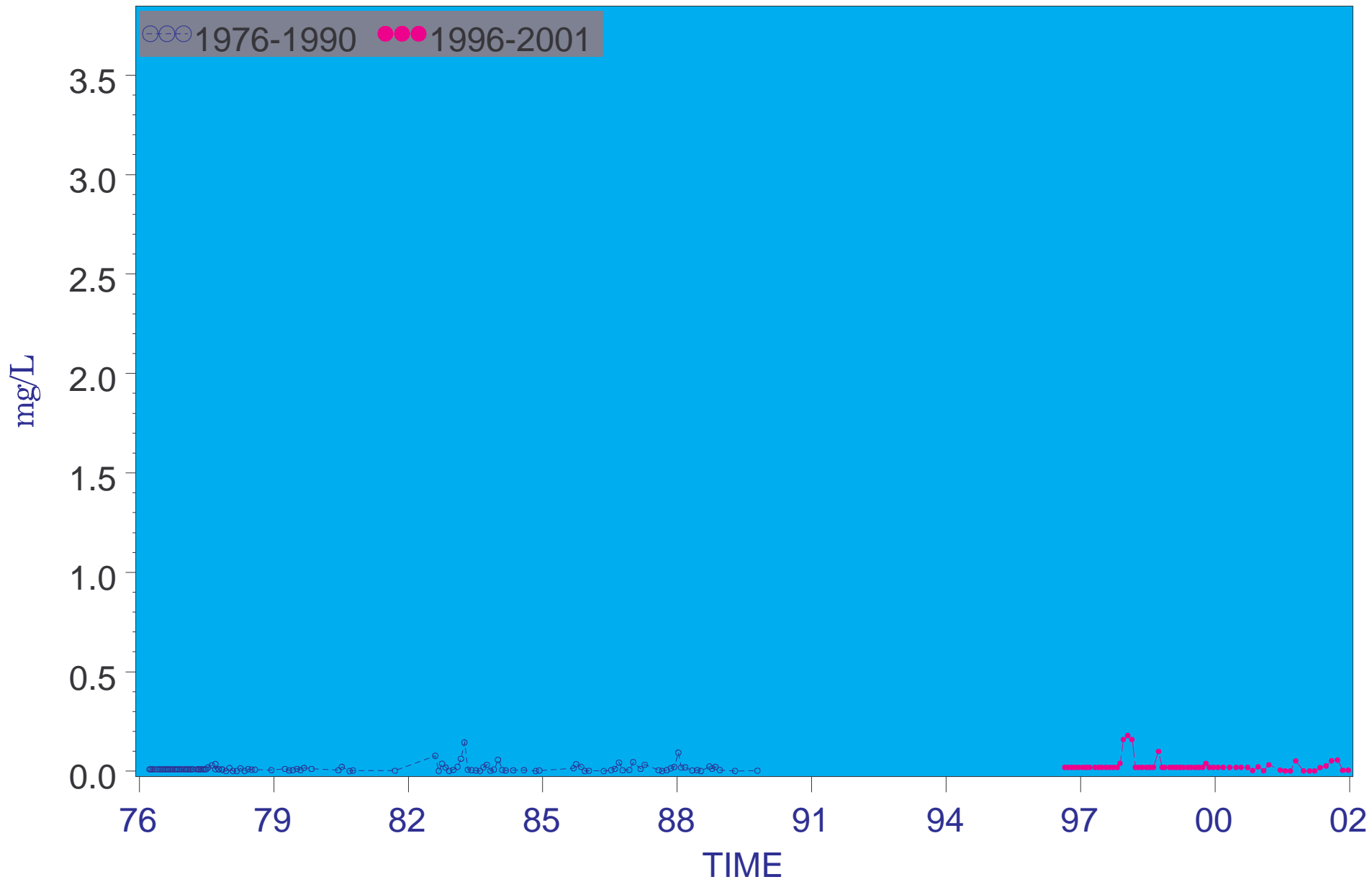


Figure 4.25 a Long-term nitrite/nitrate nitrogen at river kilometer -2.4.

Bottom Nitrite/Nitrate Nitrogen Concentrations River Kilometer=6.6

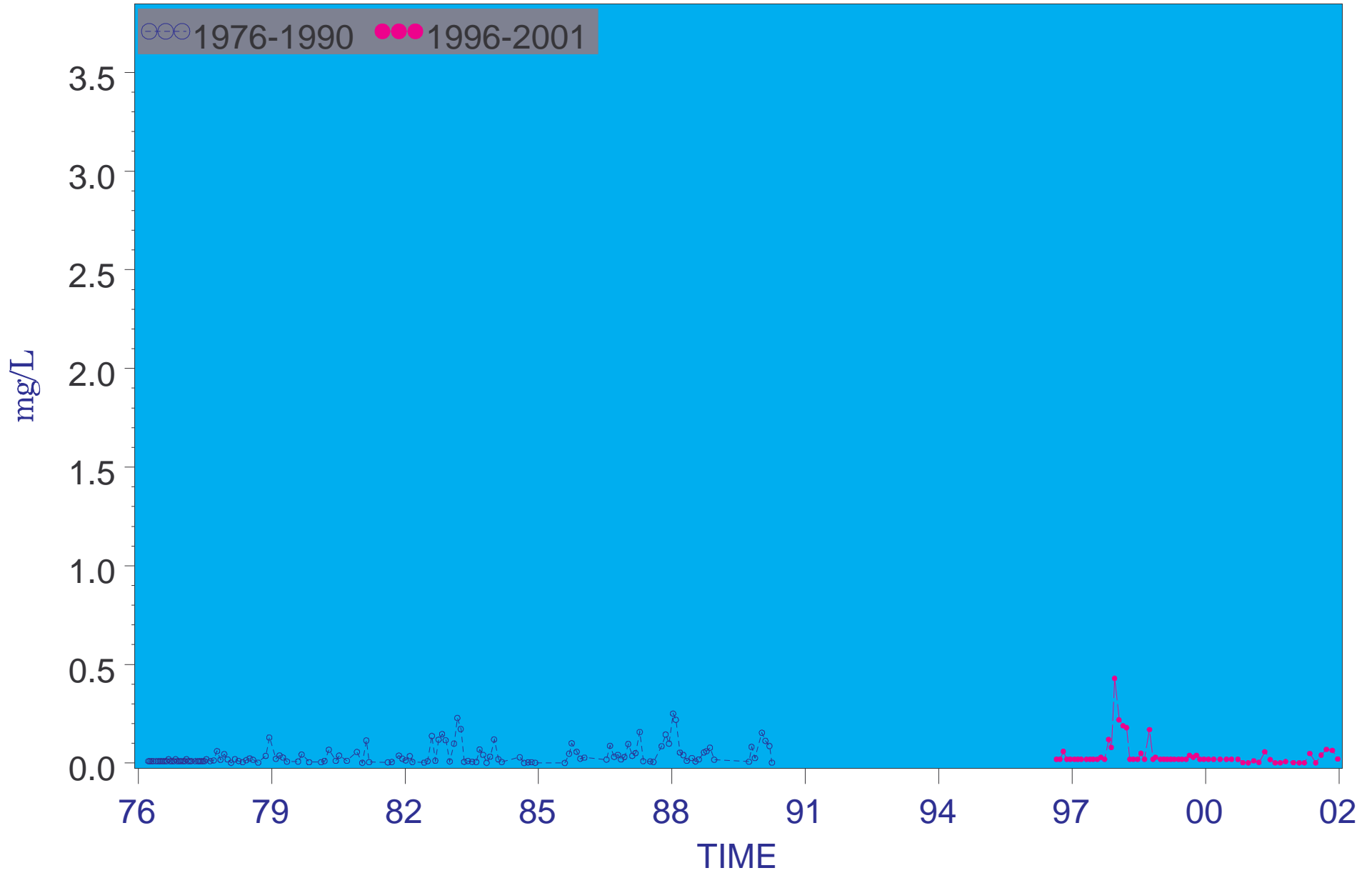


Figure 4.25 b Long-term nitrite/nitrate nitrogen at river kilometer 6.6.

Bottom Nitrite/Nitrate Nitrogen Concentrations River Kilometer=15.5

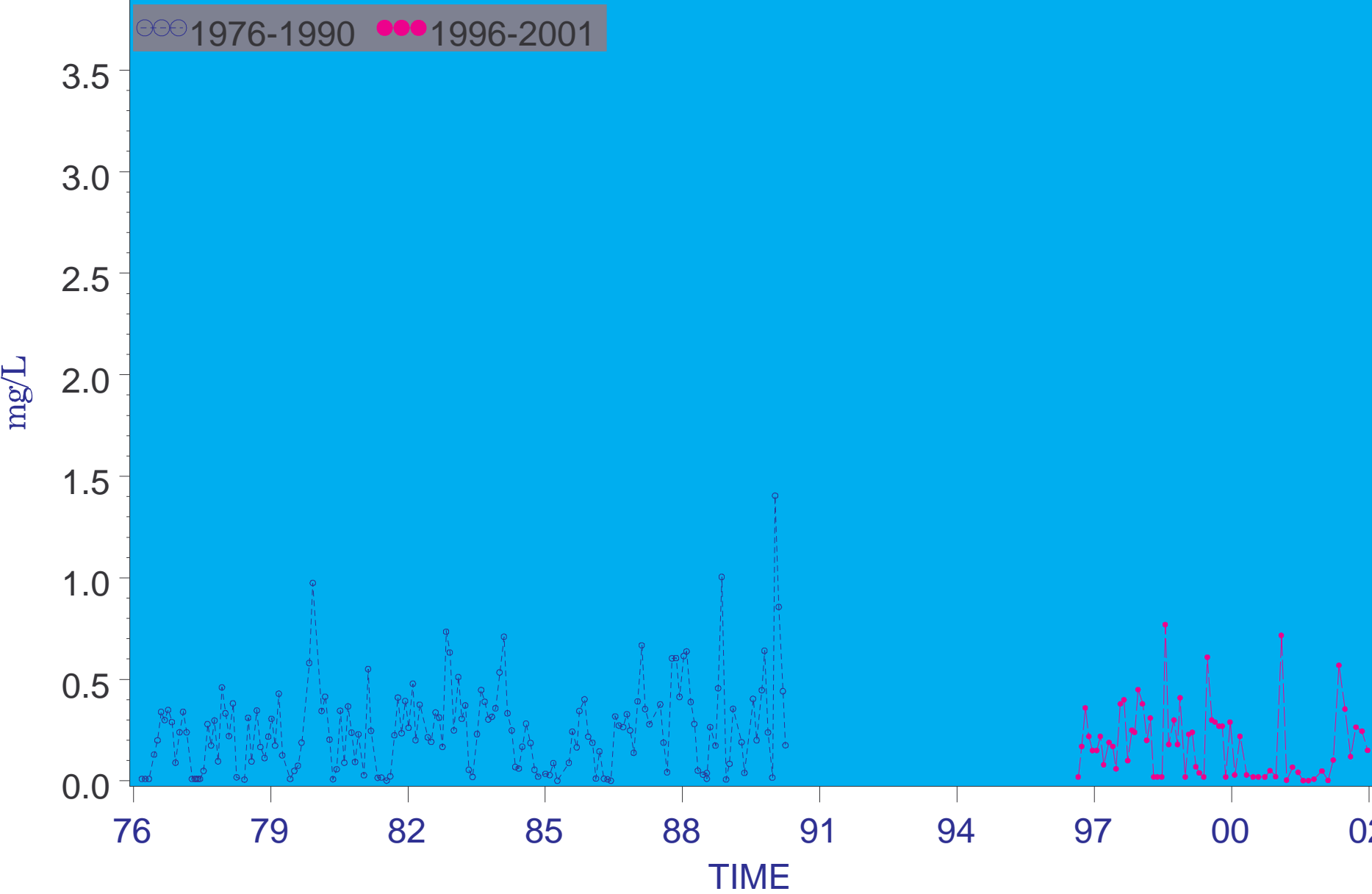


Figure 4.25 c Long-term nitrite/nitrate nitrogen at river kilometer 15.5.

Bottom Nitrite/Nitrate Nitrogen Concentrations River Kilometer=23.6

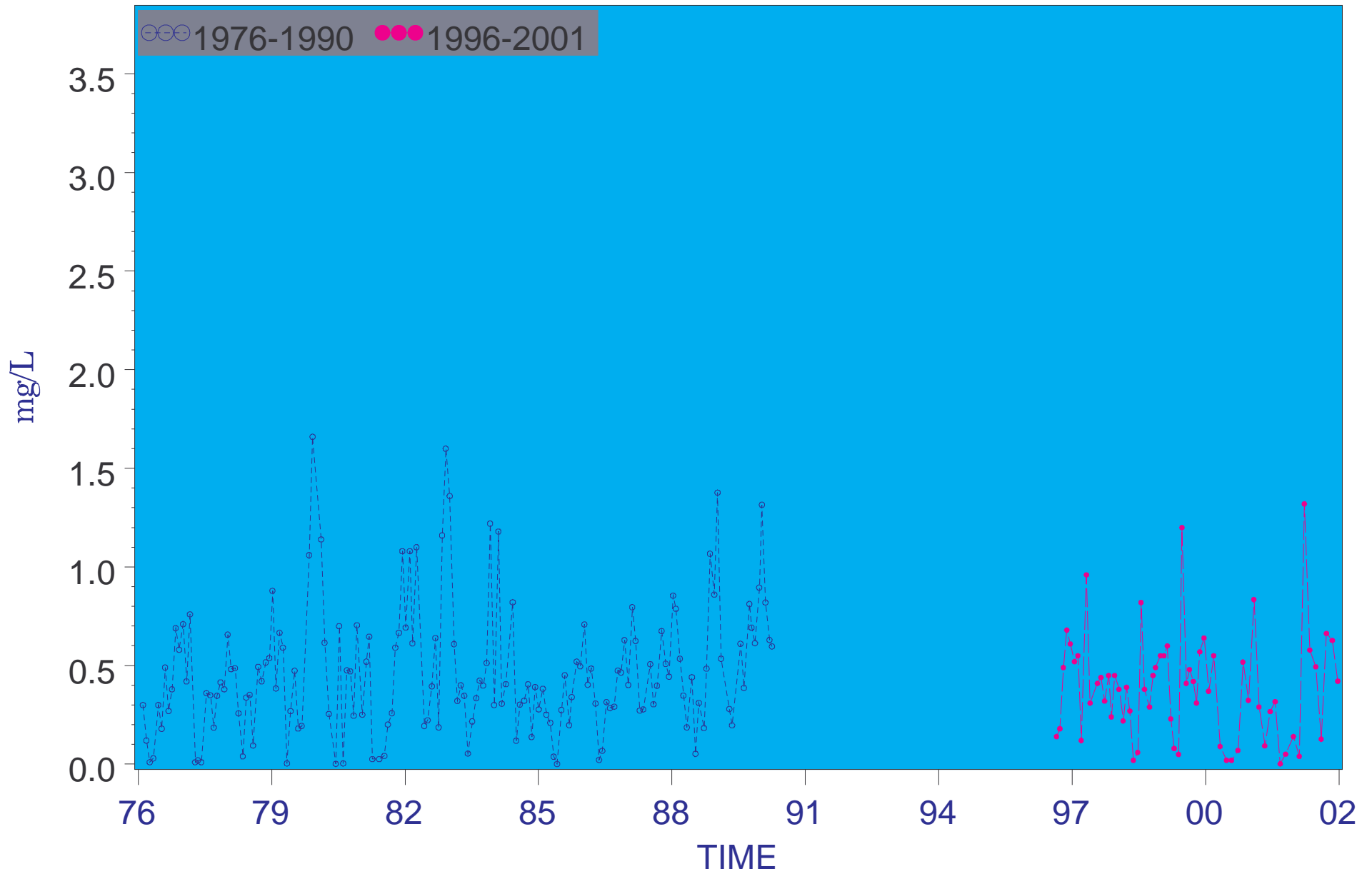


Figure 4.25 d Long-term nitrite/nitrate nitrogen at river kilometer 23.6.

Bottom Nitrite/Nitrate Nitrogen Concentrations River Kilometer=30.4

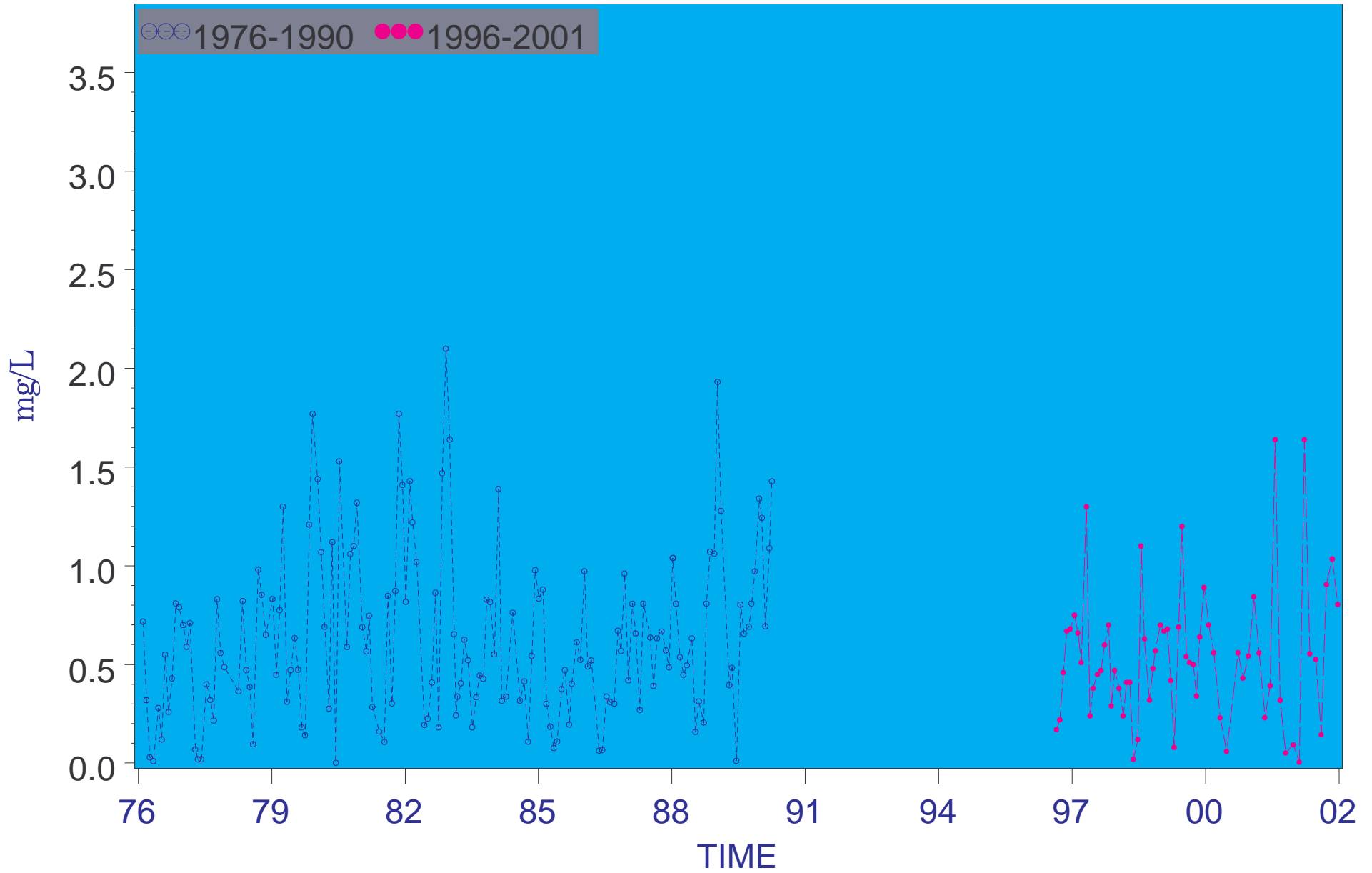


Figure 4.25 e Long-term nitrite/nitrate nitrogen at river kilometer 30.4.

Surface Total Kjeldahl Nitrogen Concentrations River Kilometer=-2.4

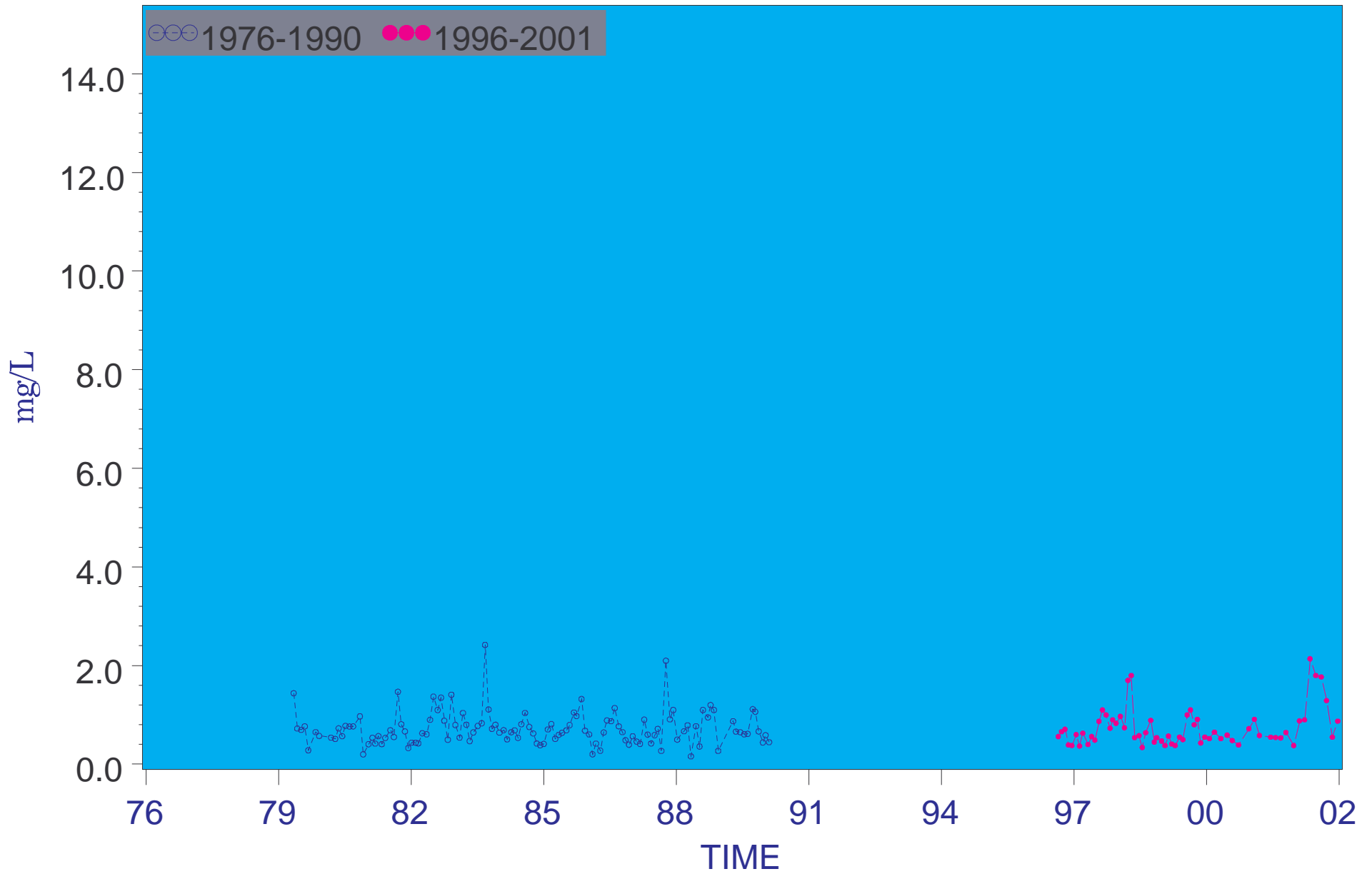


Figure 4.26 a Long-term total Kjeldahl nitrogen at river kilometer -2.4.

Surface Total Kjeldahl Nitrogen Concentrations River Kilometer=6.6

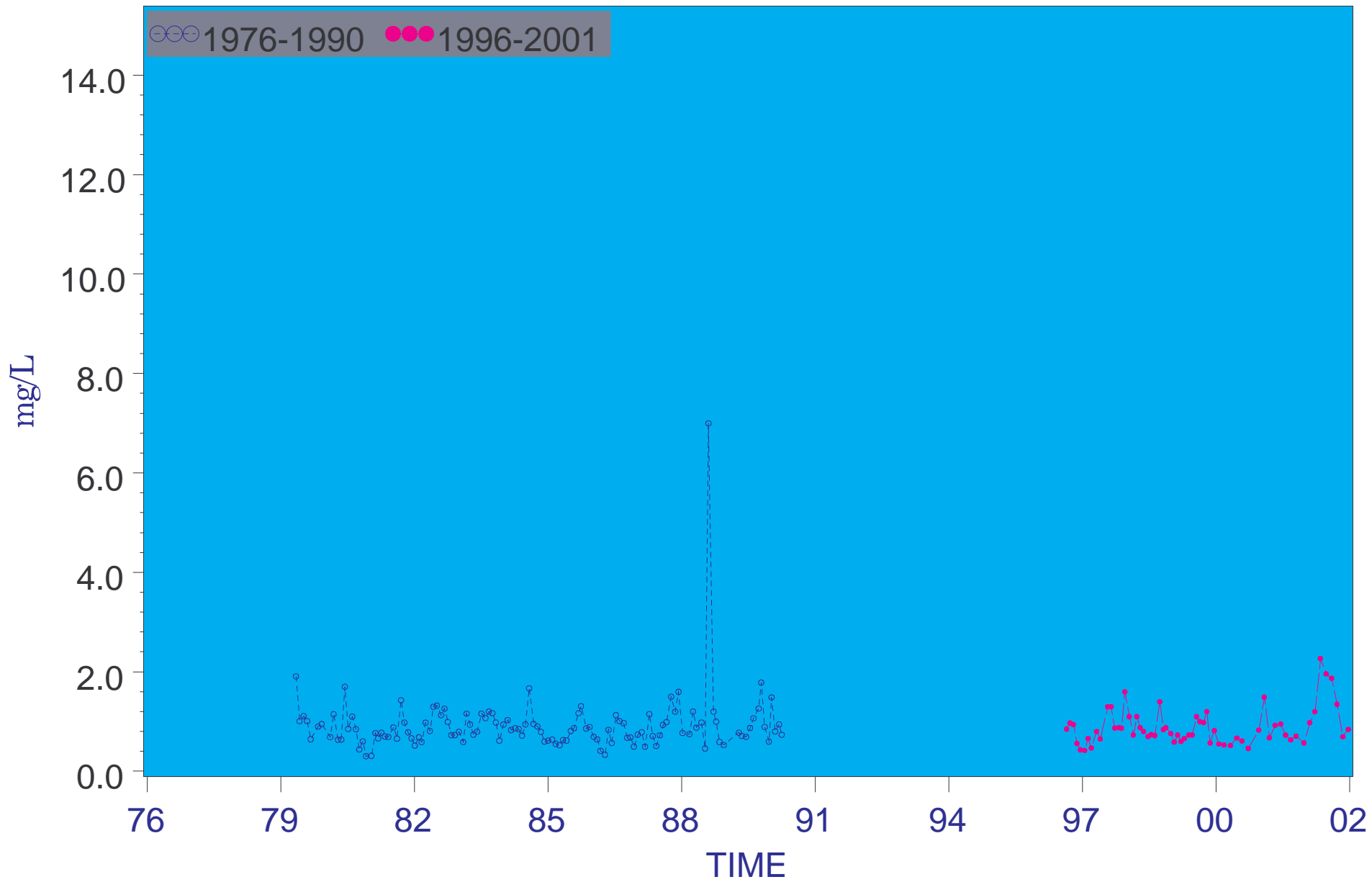


Figure 4.26 b Long-term total Kjeldahl nitrogen at river kilometer 6.6.

Surface Total Kjeldahl Nitrogen Concentrations River Kilometer=15.5

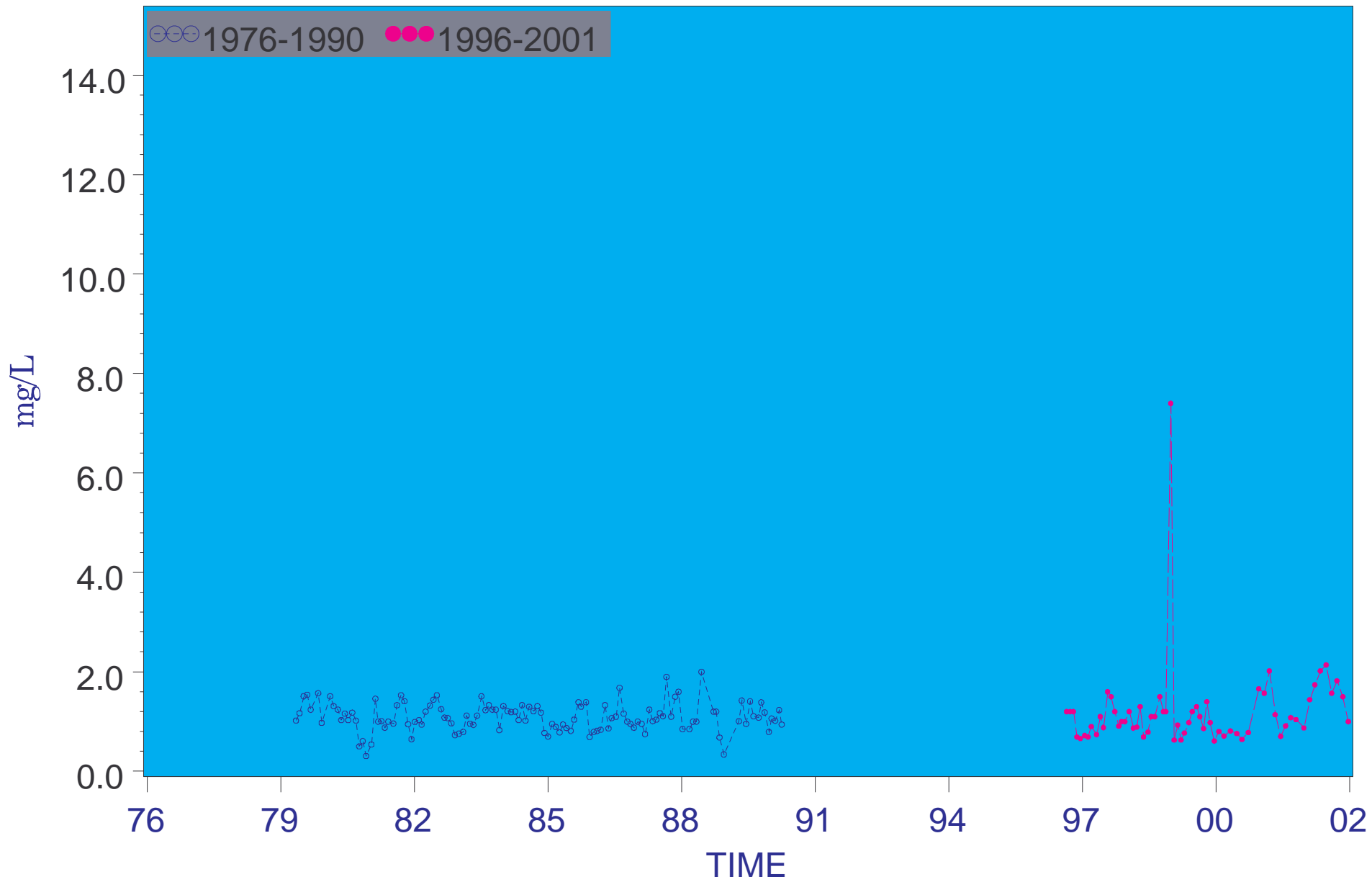


Figure 4.26 c Long-term total Kjeldahl nitrogen at river kilometer 15.5.

Surface Total Kjeldahl Nitrogen Concentrations River Kilometer=23.6

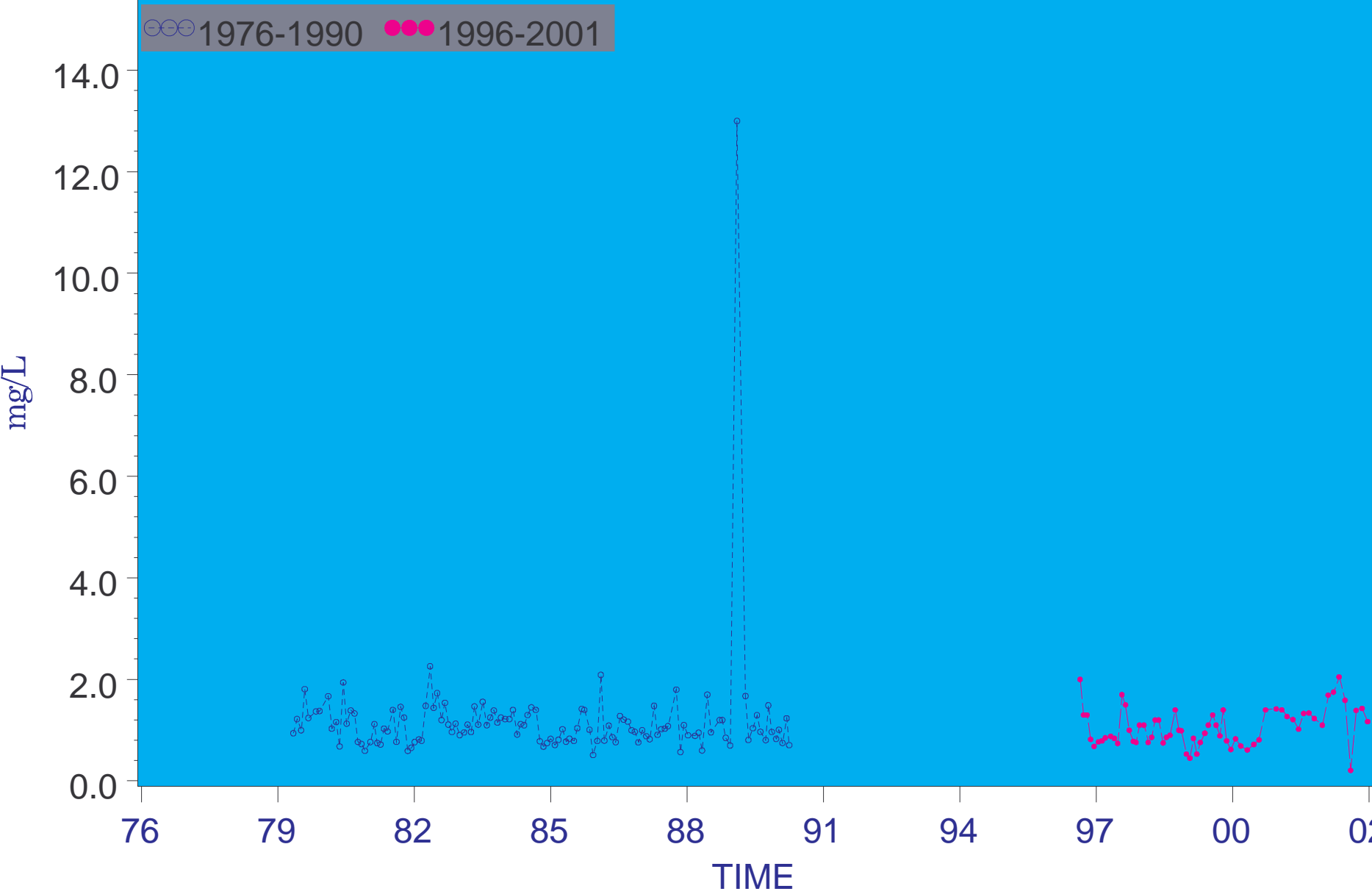


Figure 4.26 d Long-term total Kjeldahl nitrogen at river kilometer 23.6.

Surface Total Kjeldahl Nitrogen Concentrations River Kilometer=30.4

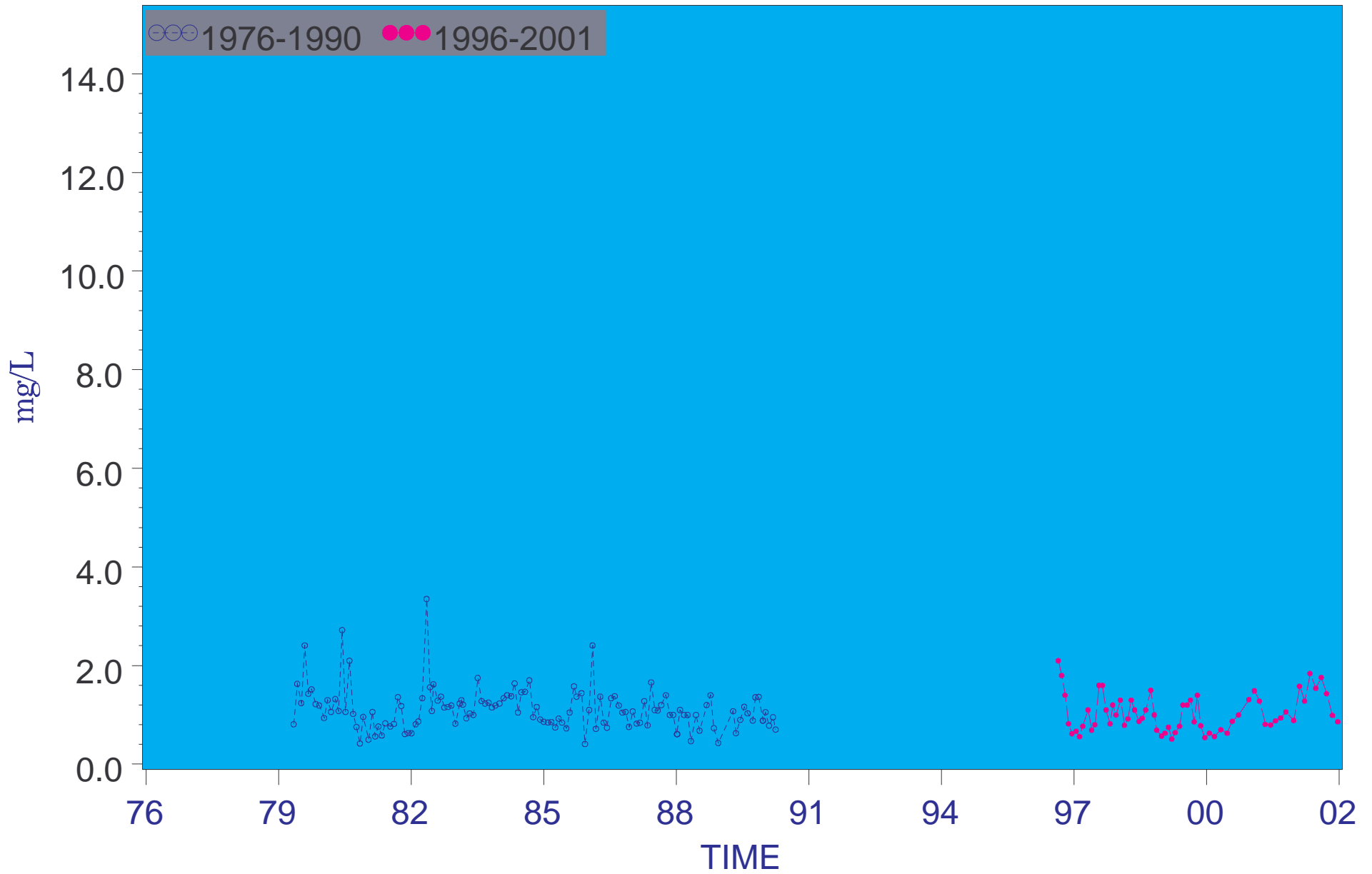


Figure 4.26 e Long-term total Kjeldahl nitrogen at river kilometer 30.4.

Bottom Total Kjeldahl Nitrogen Concentrations River Kilometer=-2.4

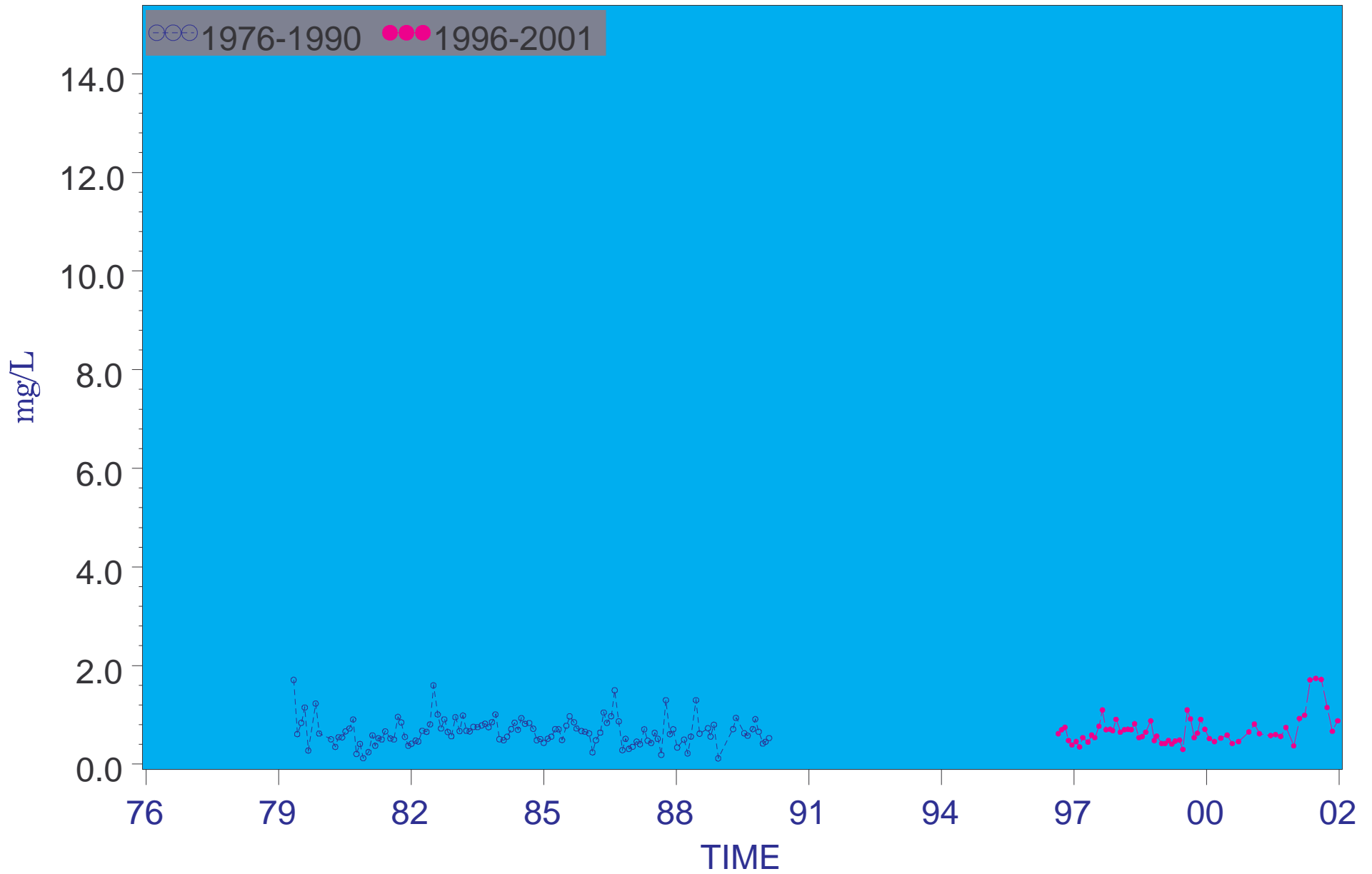


Figure 4.27 a Long-term total Kjeldhal nitrogen at river kilometer -2.4.

Bottom Total Kjeldahl Nitrogen Concentrations River Kilometer=6.6

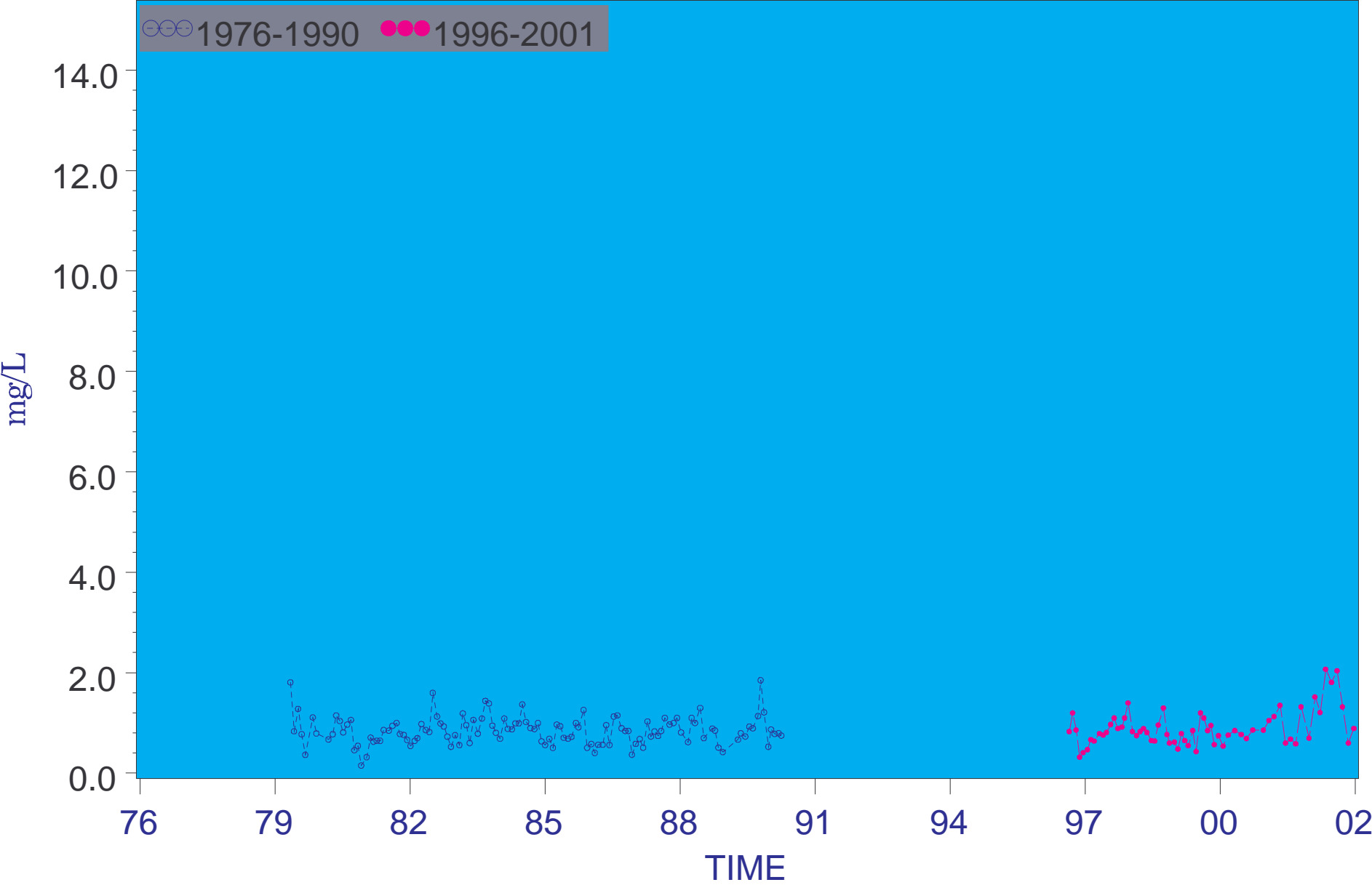


Figure 4.27 b Long-term total Kjeldhal nitrogen at river kilometer 6.6.

Bottom Total Kjeldahl Nitrogen Concentrations River Kilometer=15.5

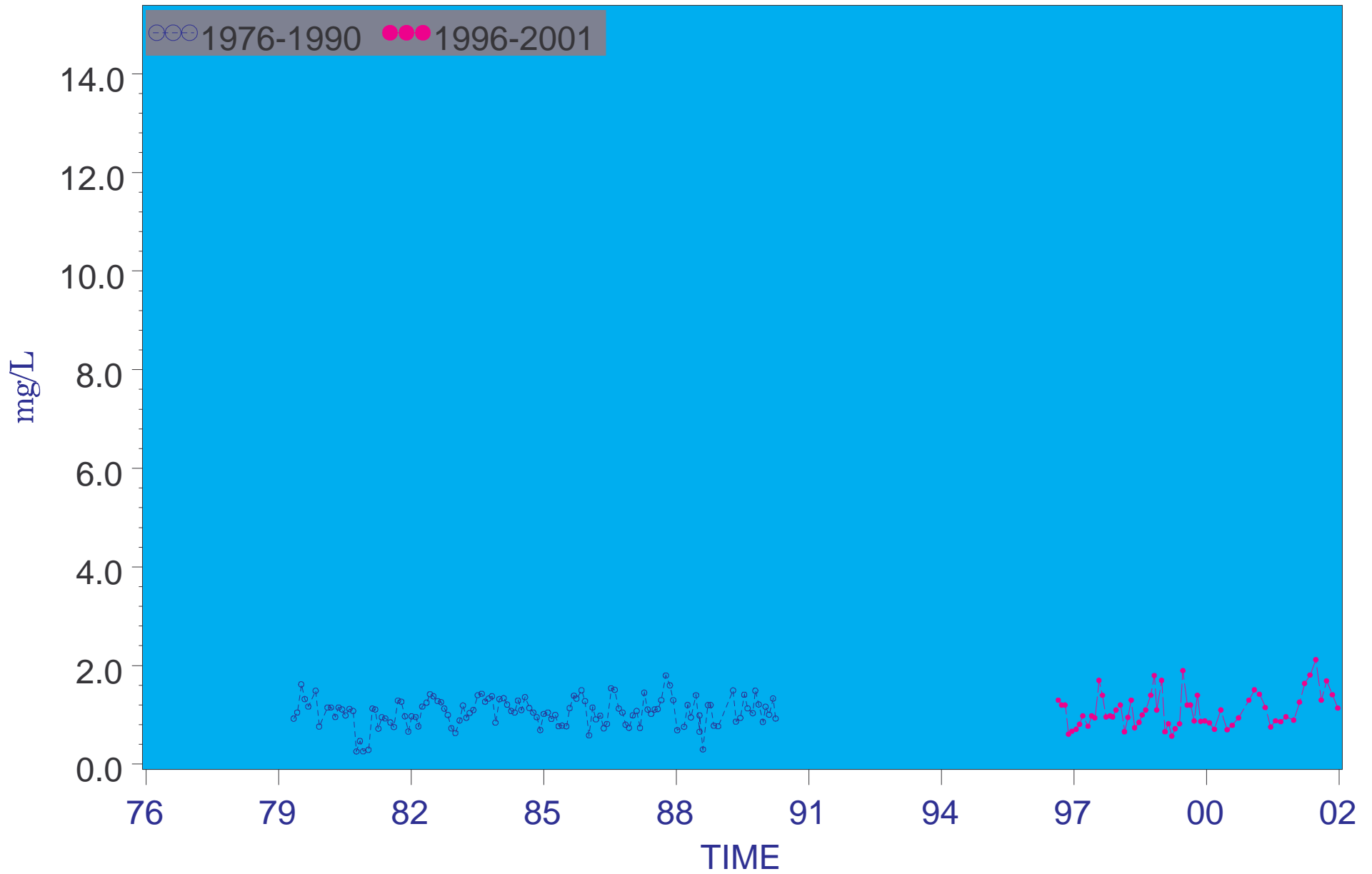


Figure 4.27 c Long-term total Kjeldahl nitrogen at river kilometer 15.5.

Bottom Total Kjeldahl Nitrogen Concentrations
River Kilometer=23.6

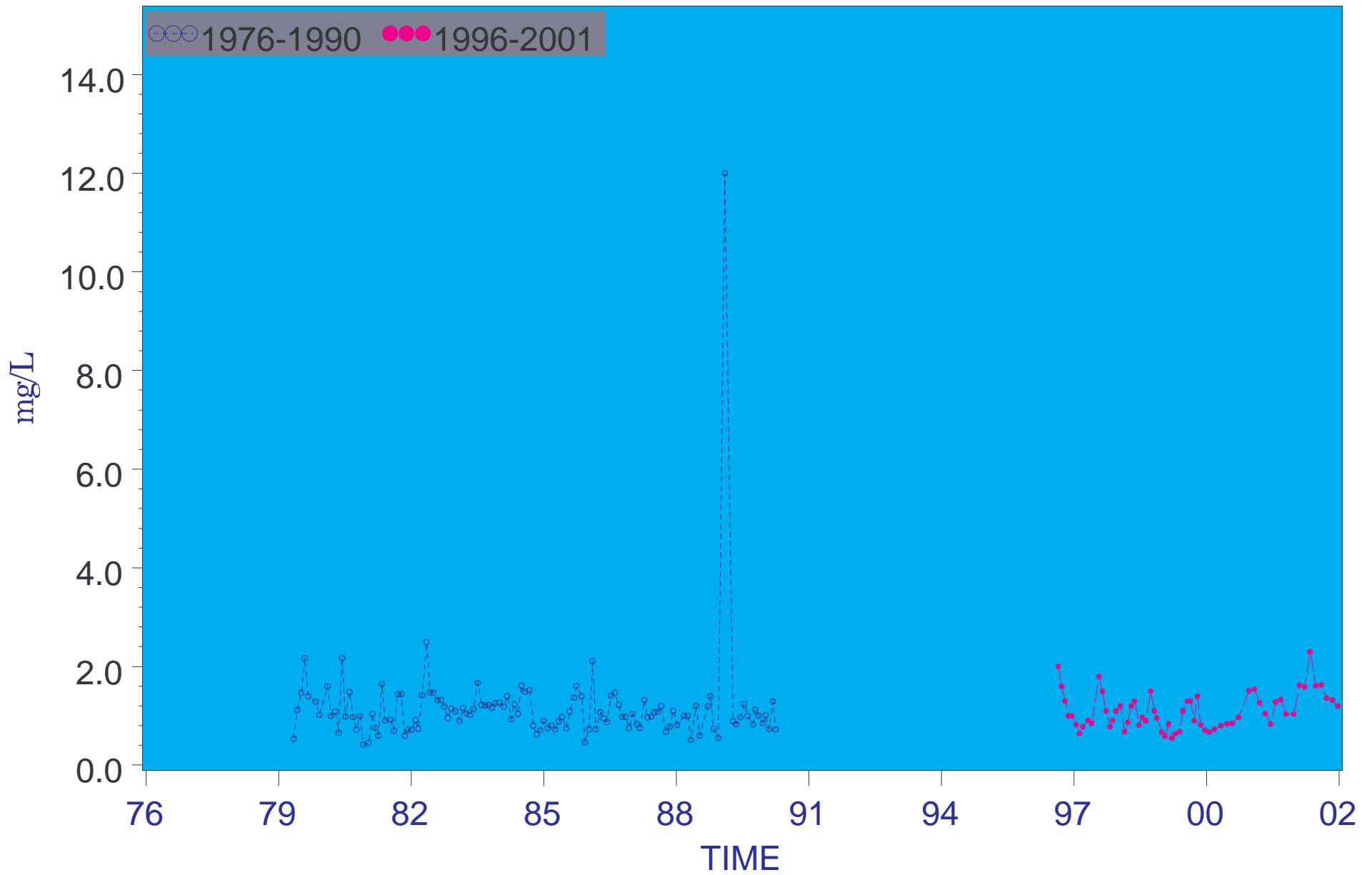


Figure 4.27 d Long-term total Kjeldhal nitrogen at river kilometer 23.6.

Bottom Total Kjeldahl Nitrogen Concentrations River Kilometer=30.4

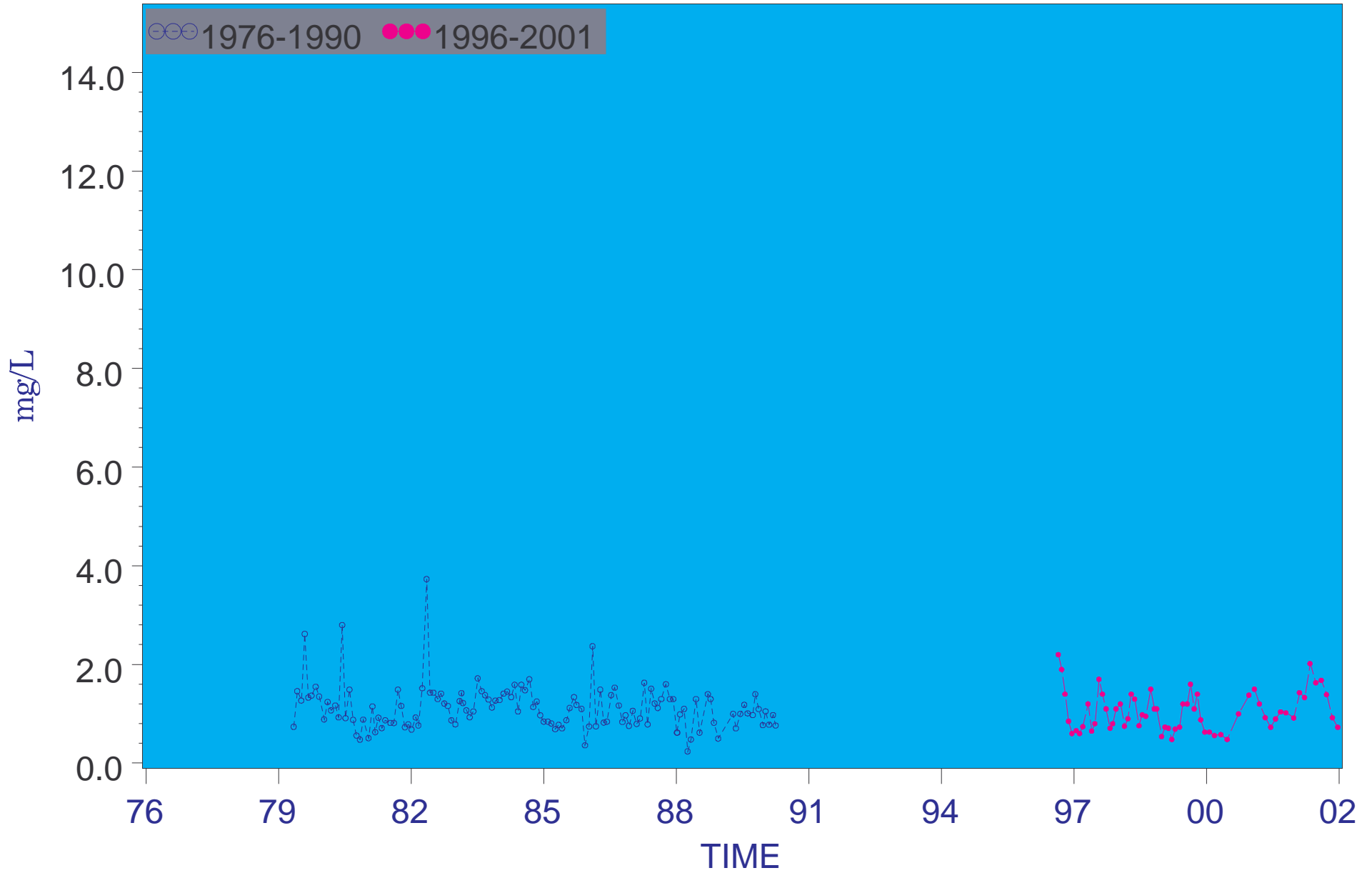


Figure 4.27 e Long-term total Kjeldhal nitrogen at river kilometer 30.4.

Surface Ortho-phosphorus Concentrations River Kilometer=-2.4

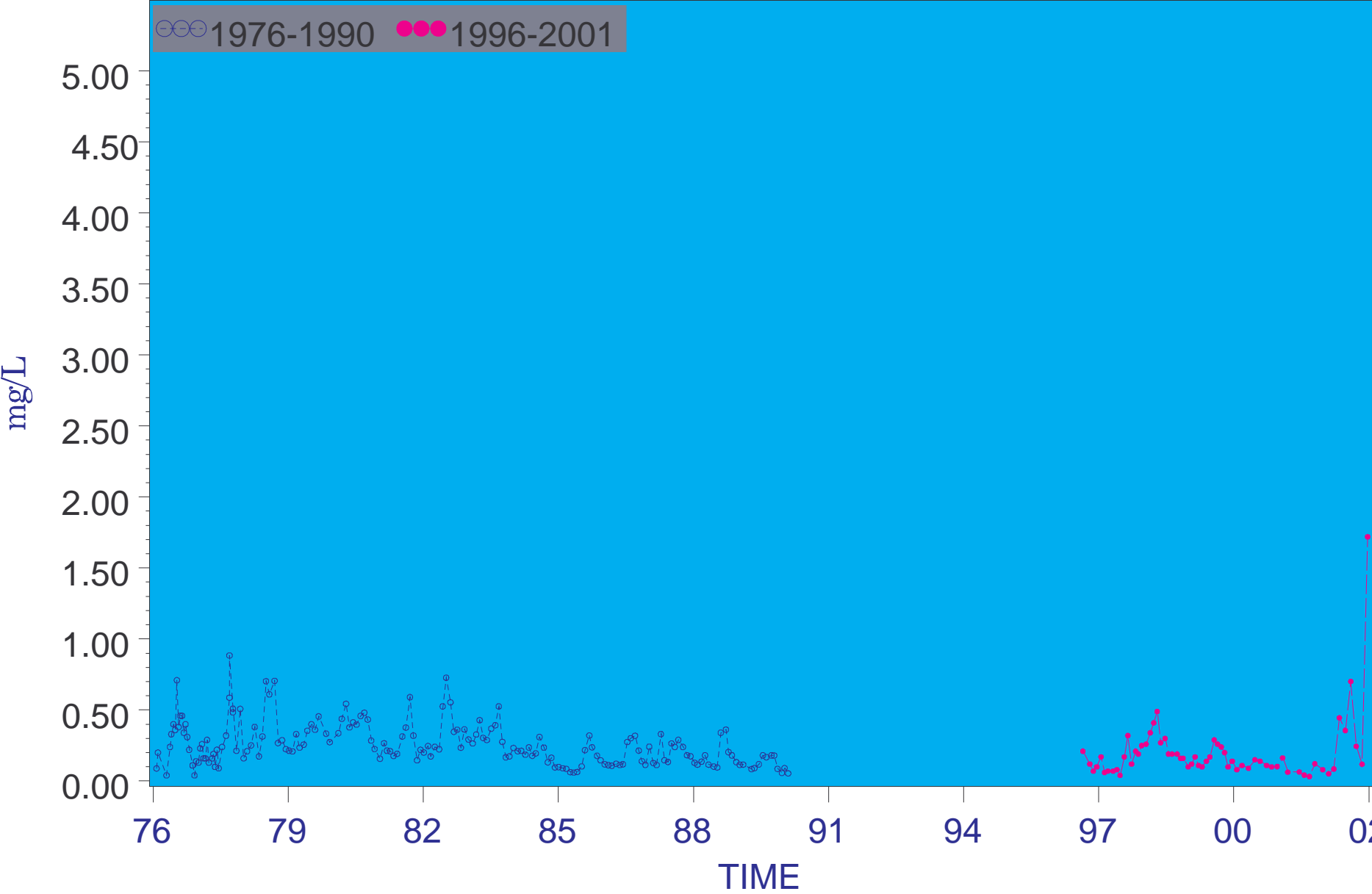


Figure 4.28 a Long-term Ortho-phosphorus at river kilometer -2.4.

Surface Ortho-phosphorus Concentrations River Kilometer=6.6

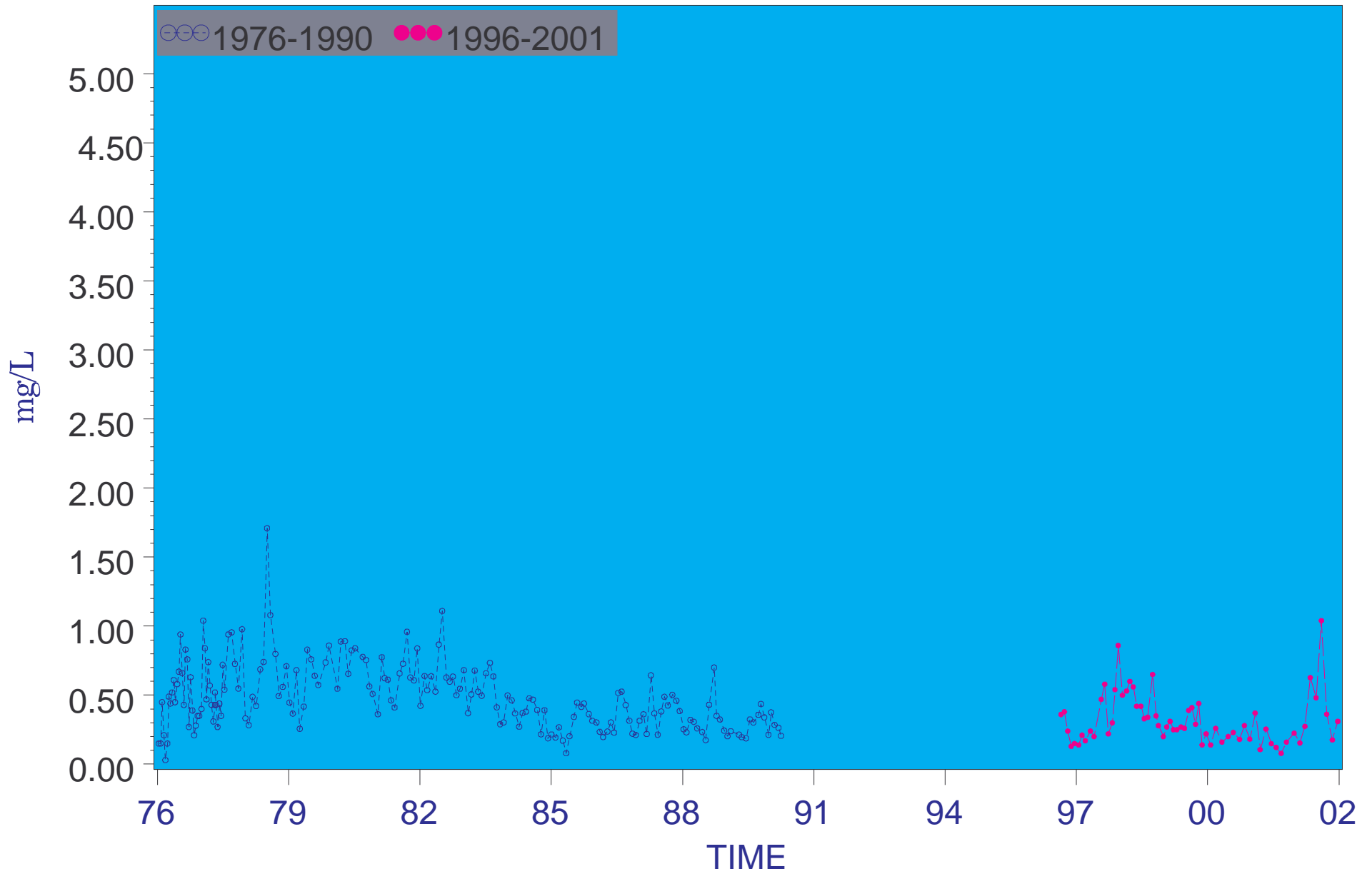


Figure 4.28 b Long-term Ortho-phosphorus at river kilometer 6.6.

Surface Ortho-phosphorus Concentrations River Kilometer=15.5

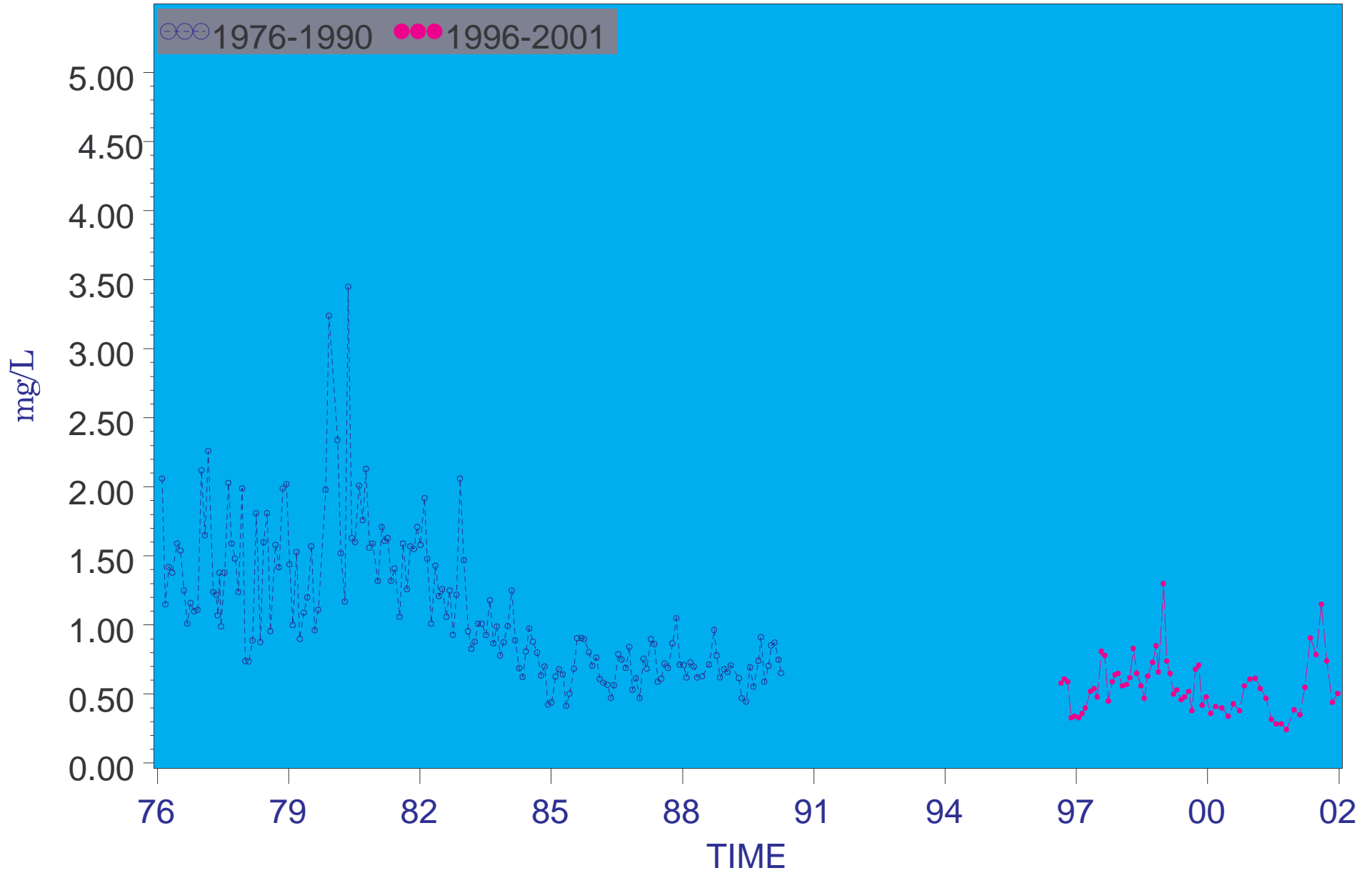


Figure 4.28 c Long-term Ortho-phosphorus at river kilometer 15.5.

Surface Ortho-phosphorus Concentrations River Kilometer=23.6

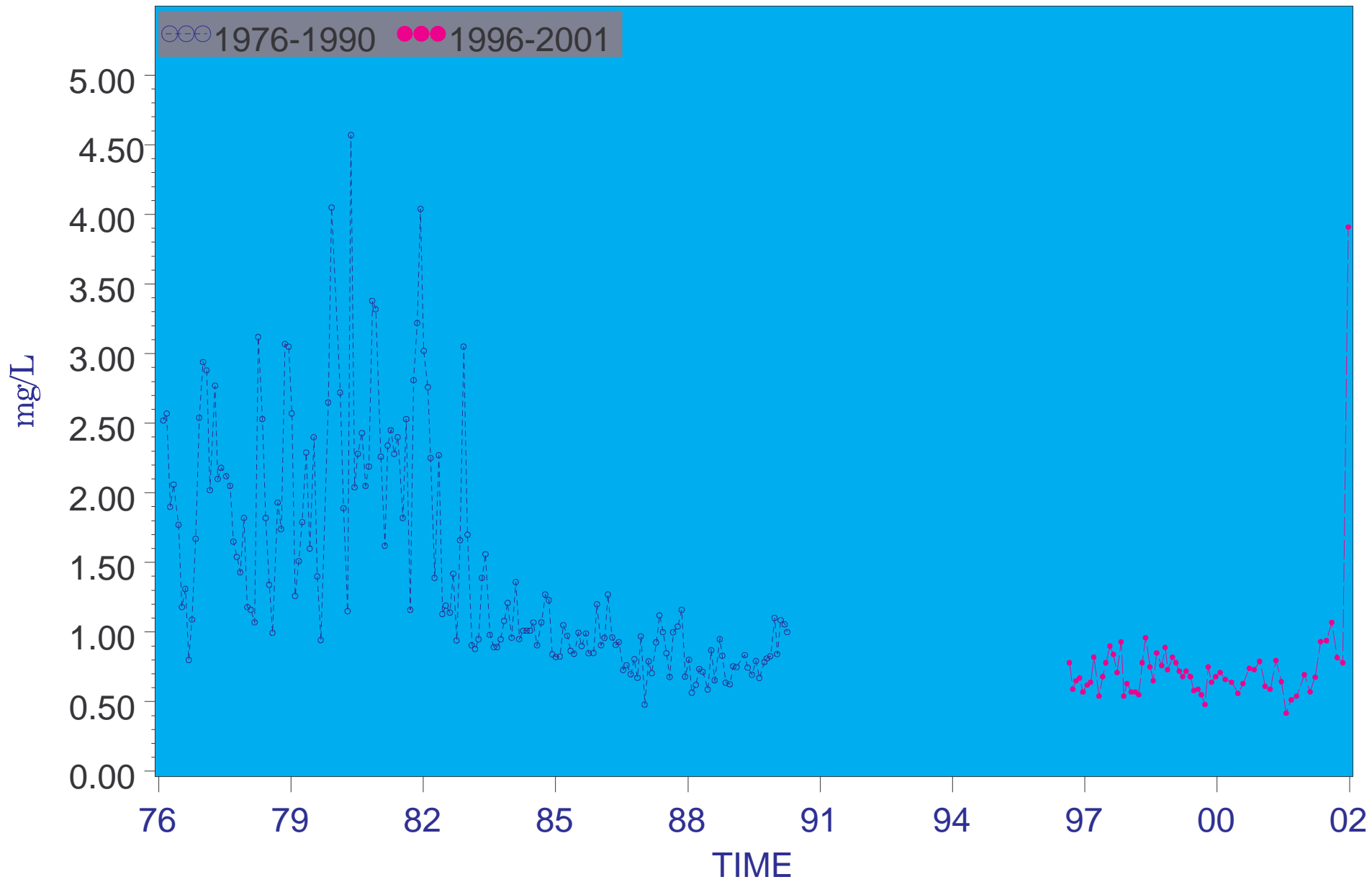


Figure 4.28 d Long-term Ortho-phosphorus at river kilometer 23.6.

Surface Ortho-phosphorus Concentrations River Kilometer=30.4



Figure 4.28 e Long-term Ortho-phosphorus at river kilometer 30.4.

Bottom Ortho-phosphorus Concentrations River Kilometer=-2.4

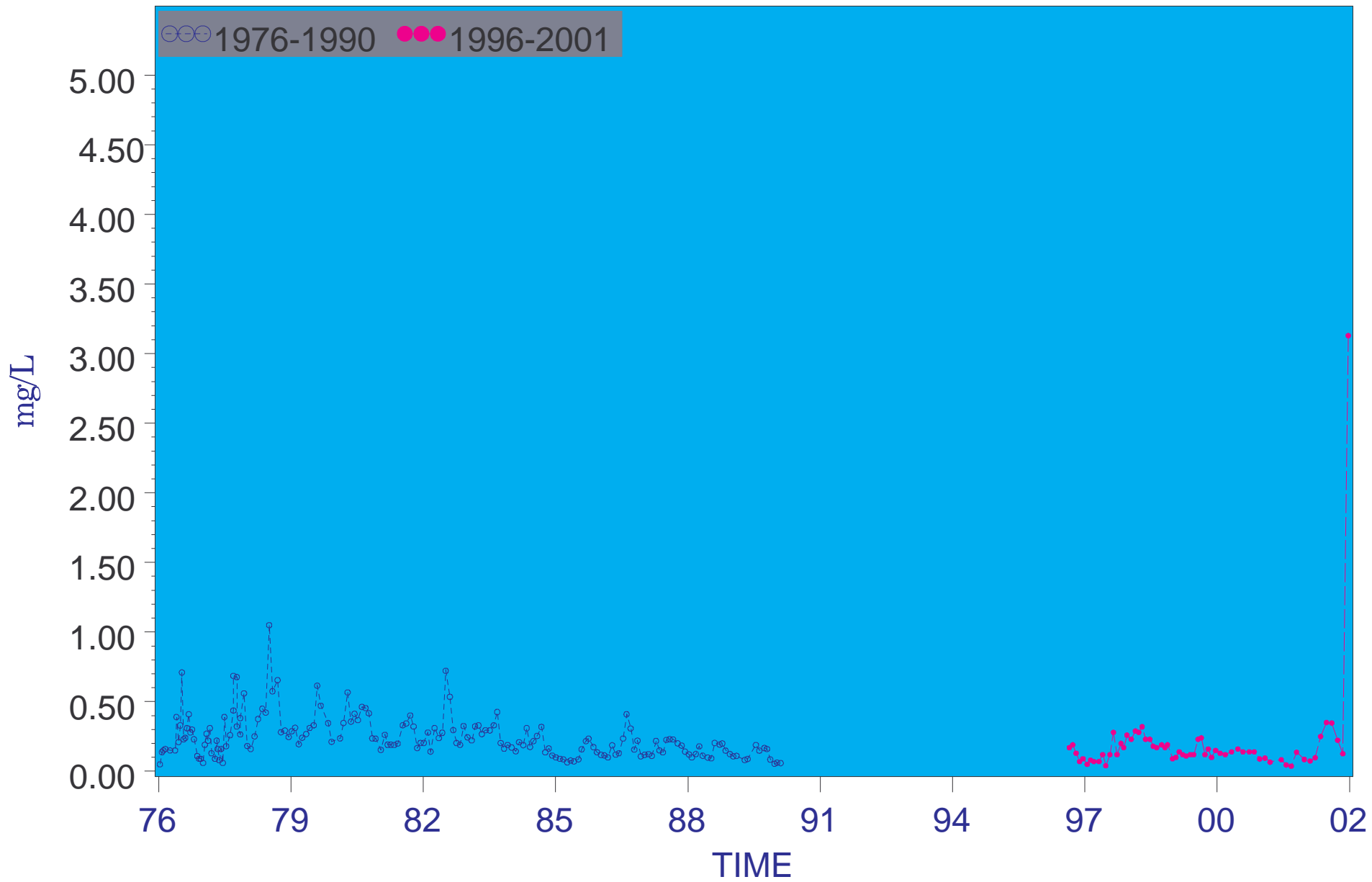


Figure 4.29 a Long-term Ortho-phosphorus at river kilometer -2.4.

Bottom Ortho-phosphorus Concentrations
River Kilometer=6.6

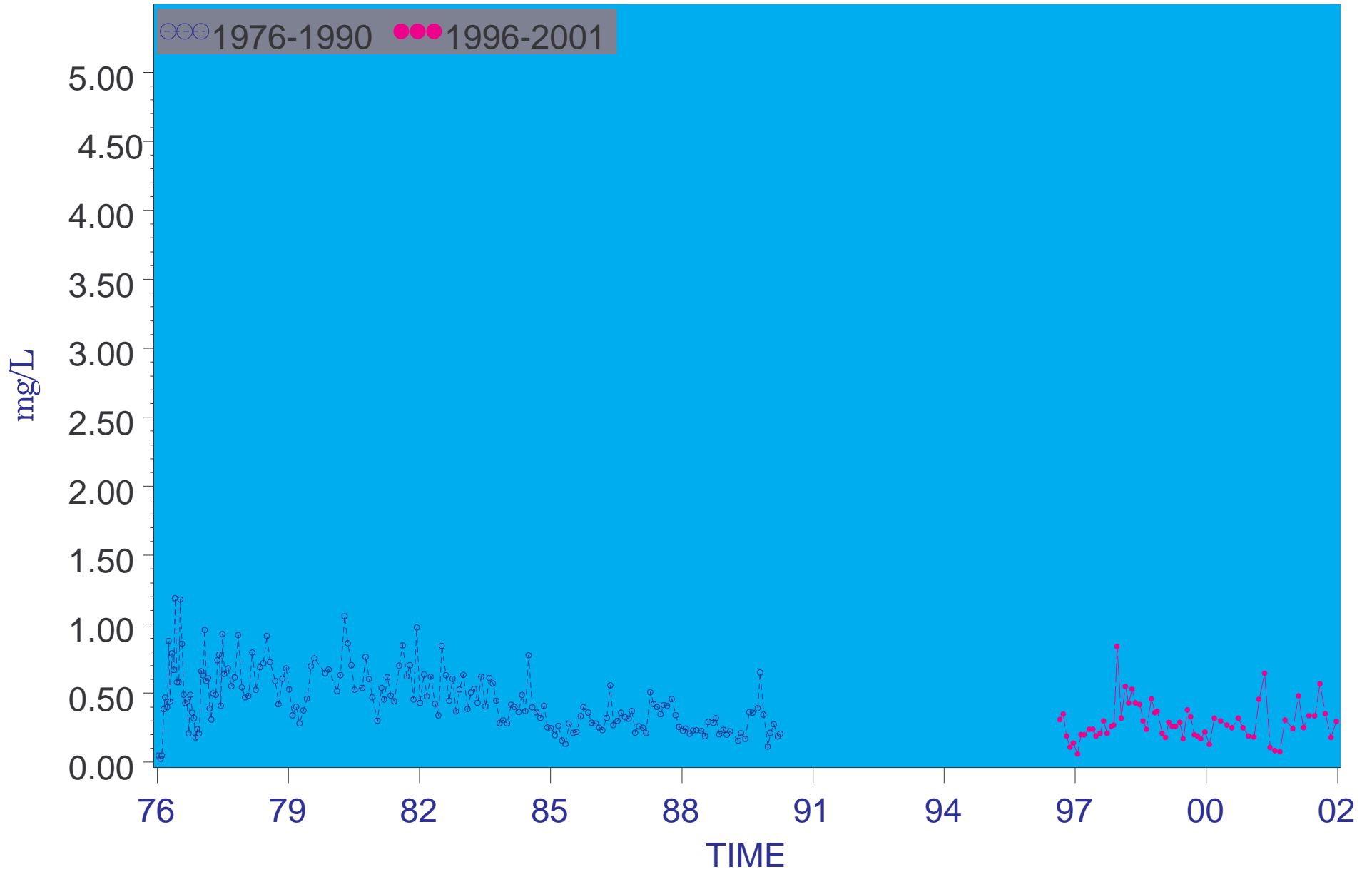


Figure 4.29 b Long-term Ortho-phosphorus at river kilometer 6.6.

Bottom Ortho-phosphorus Concentrations River Kilometer=15.5

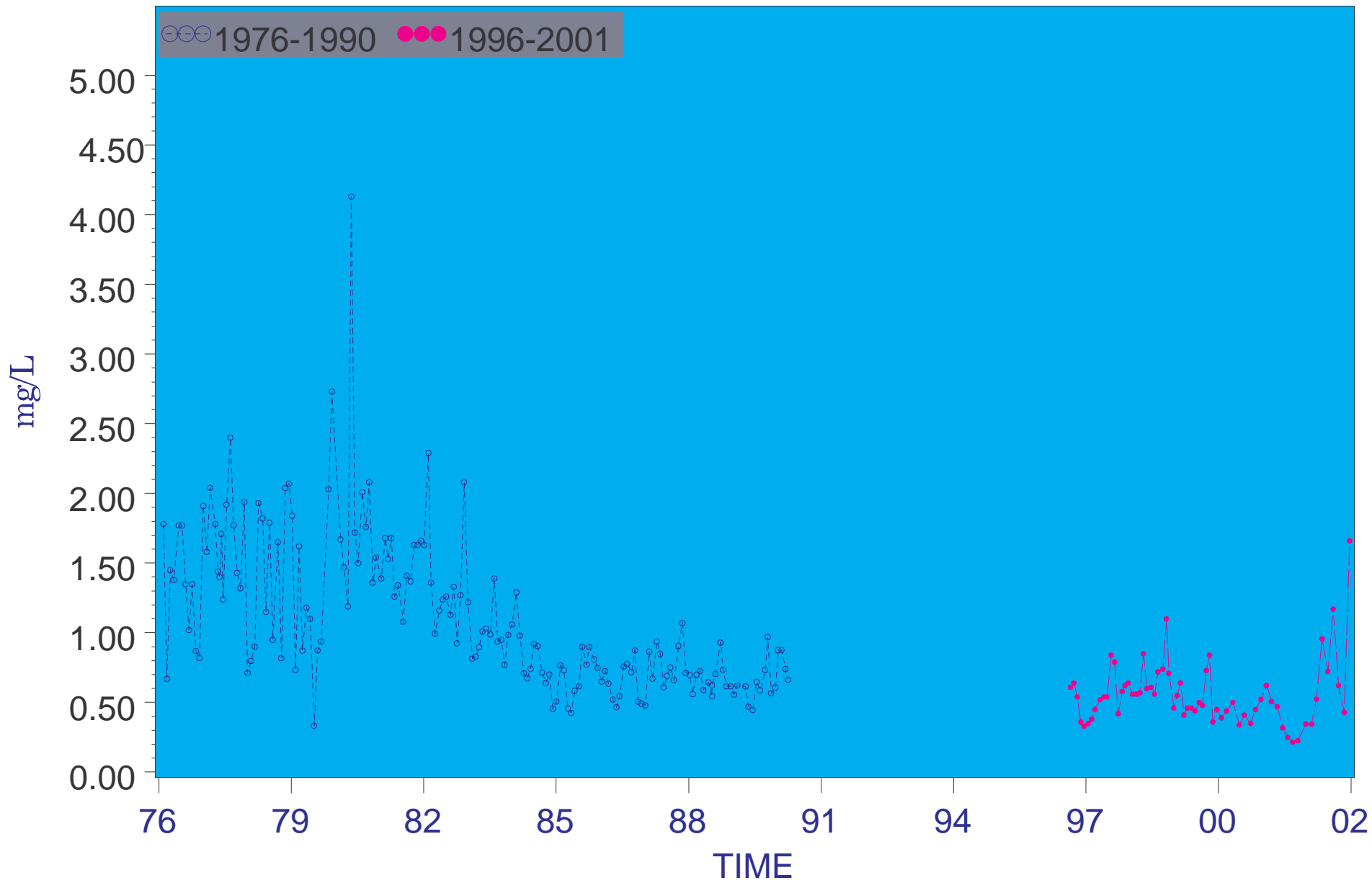


Figure 4.29 c Long-term Ortho-phosphorus at river kilometer 15.5.

Bottom Ortho-phosphorus Concentrations River Kilometer=30.4

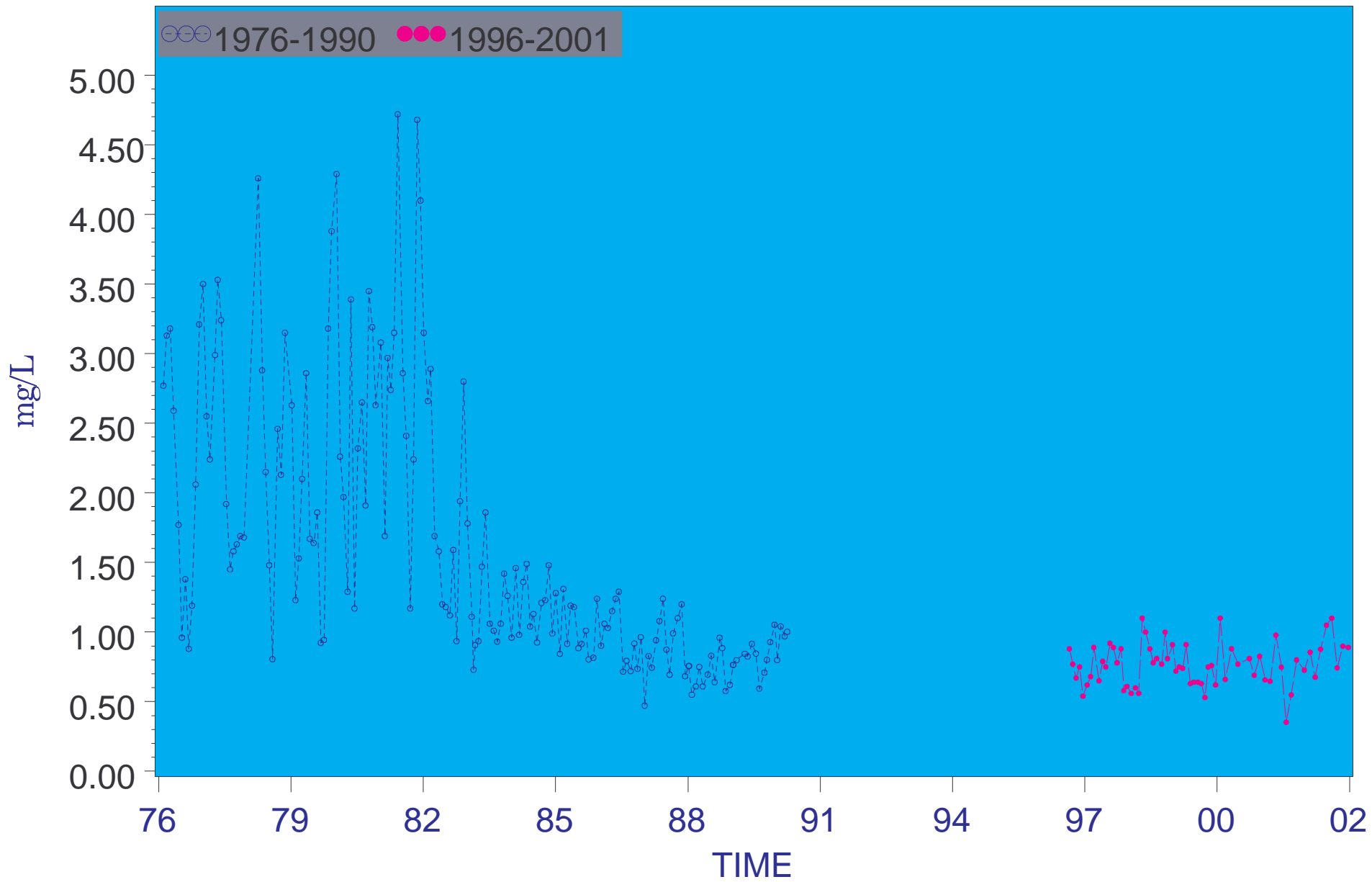


Figure 4.29 e Long-term Ortho-phosphorus at river kilometer 30.4.

Surface Silica Concentrations River Kilometer=-2.4

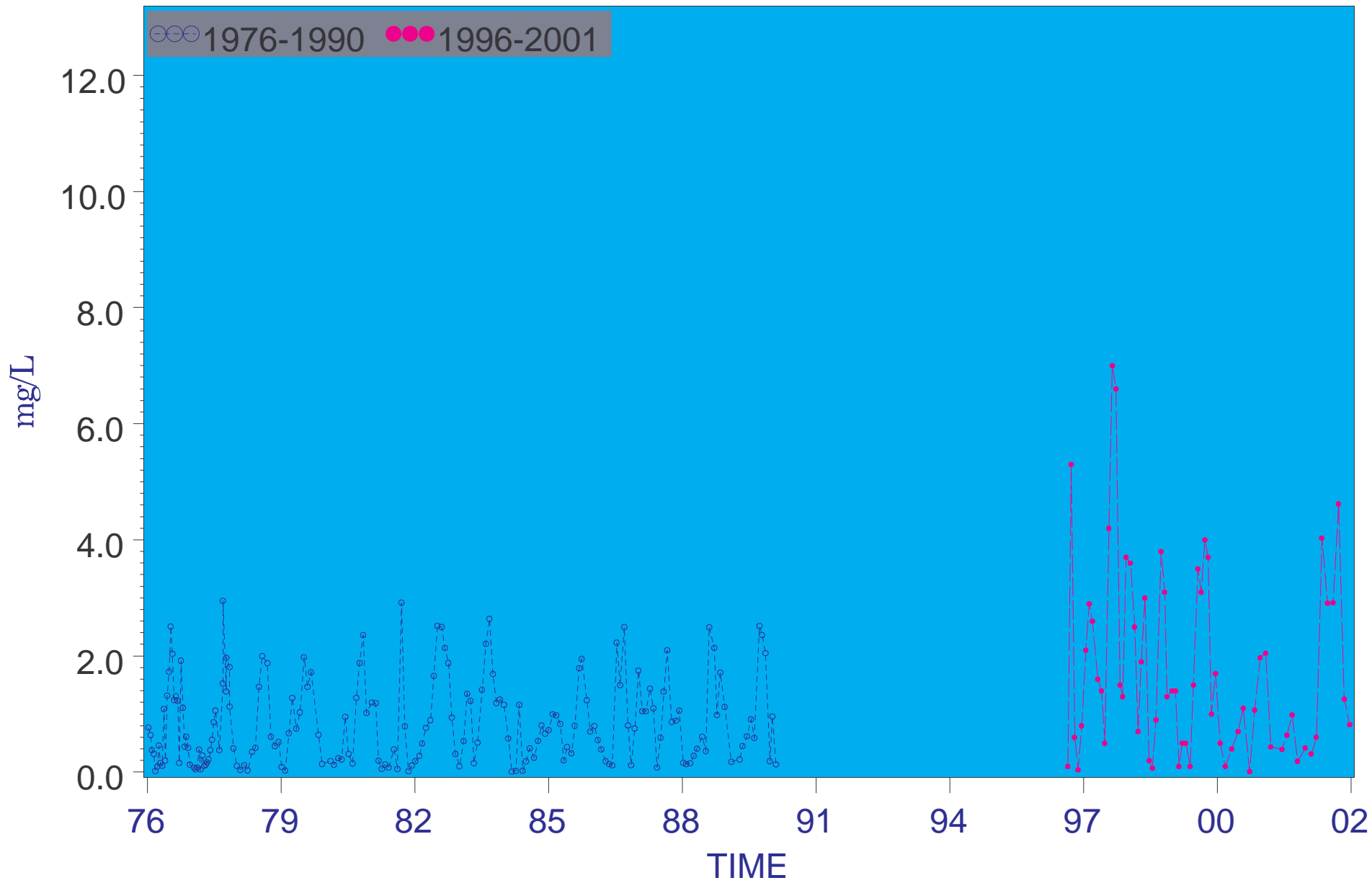


Figure 4.30 a Long-term silica at river kilometer -2.4.

Surface Silica Concentrations River Kilometer=6.6

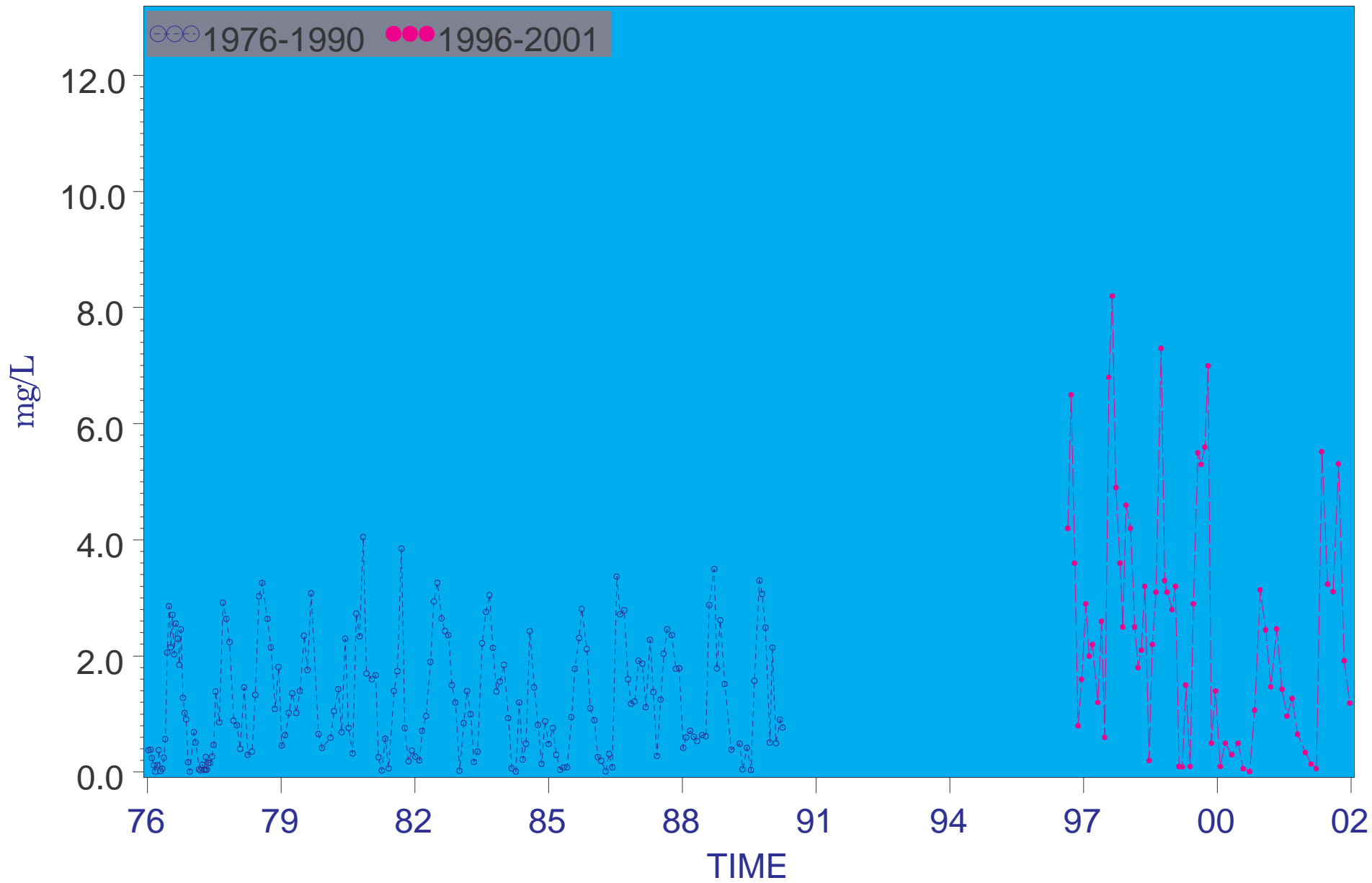


Figure 4.30 b Long-term silica at river kilometer 6.6.

Surface Silica Concentrations River Kilometer=15.5

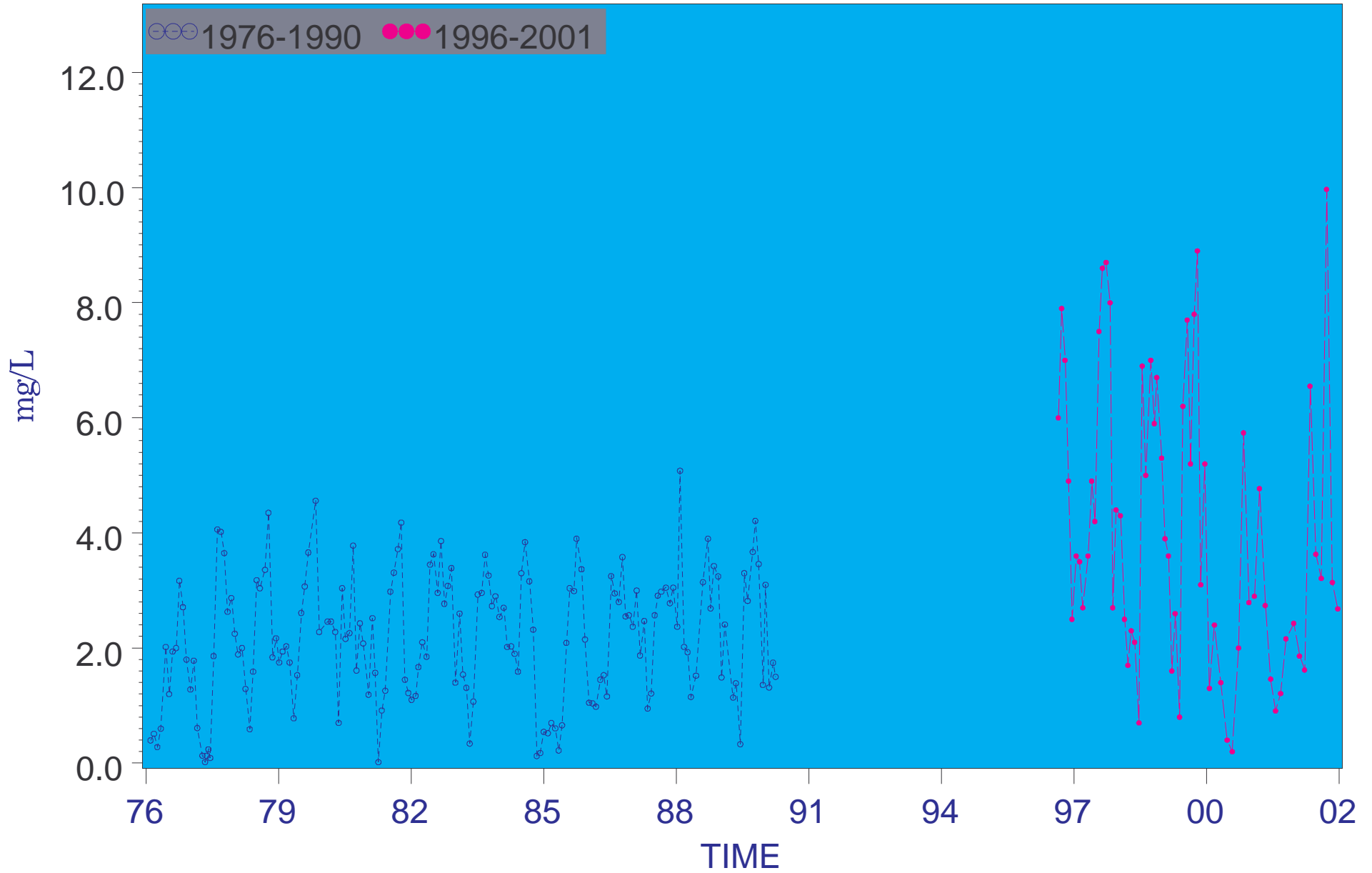


Figure 4.30 c Long-term silica at river kilometer 15.5.

Surface Silica Concentrations River Kilometer=23.6

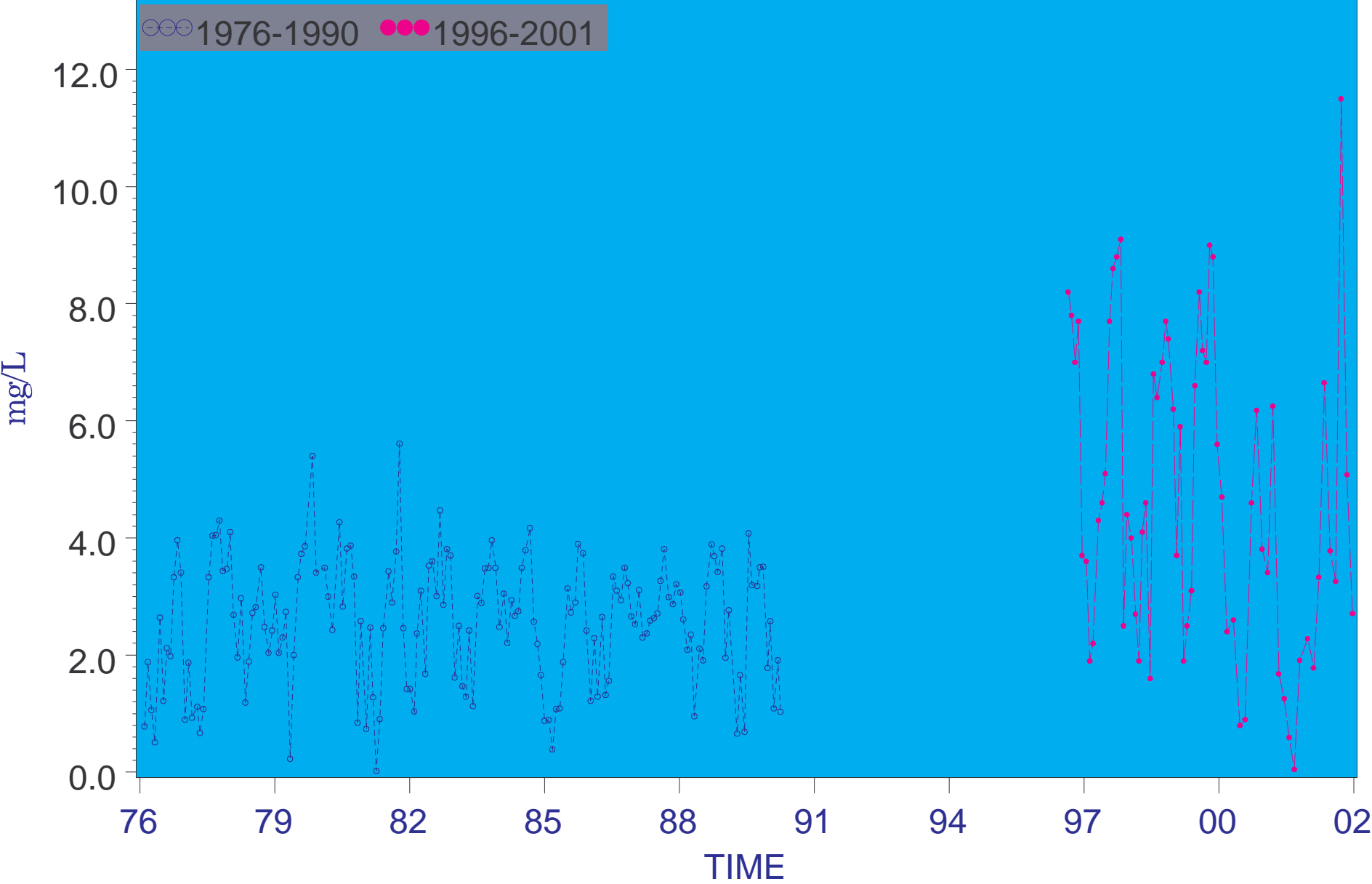


Figure 4.30 d Long-term silica at river kilometer 23.6.

Surface Silica Concentrations River Kilometer=30.4

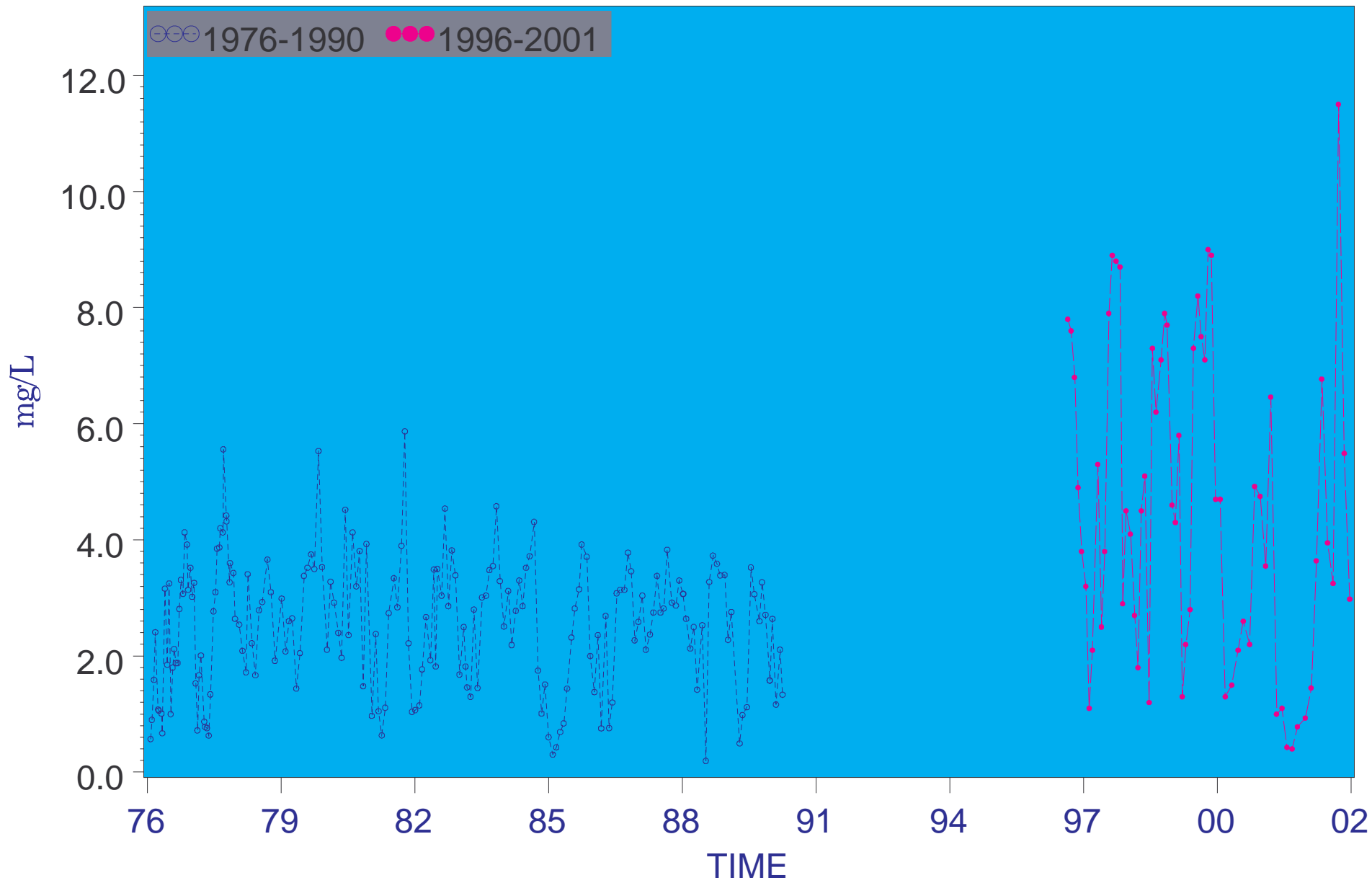


Figure 4.30 e Long-term silica at river kilometer 30.4.

Bottom Silica Concentrations River Kilometer=-2.4

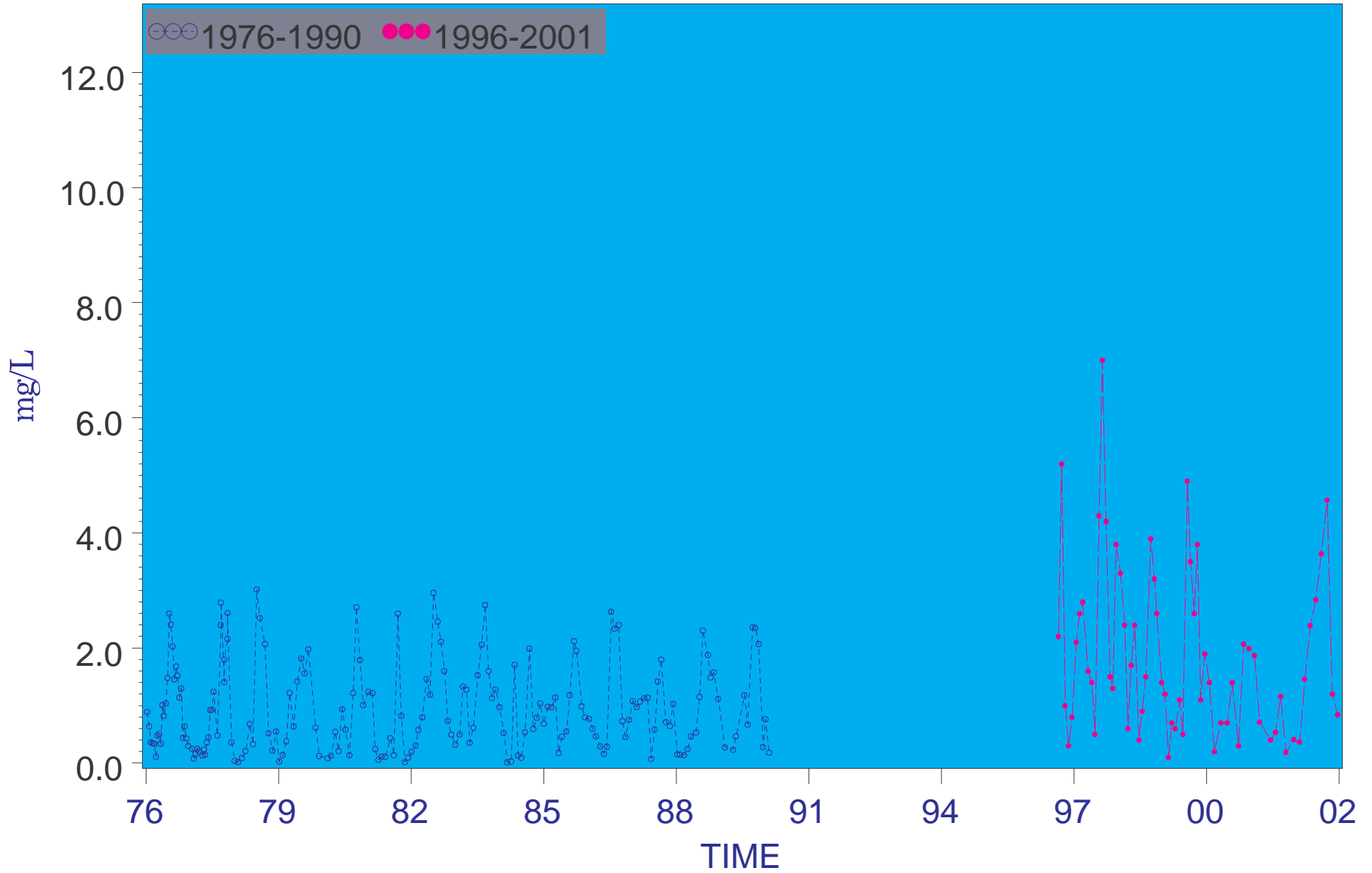


Figure 4.31 a Long-term silica at river kilometer -2.4.

Bottom Silica Concentrations River Kilometer=6.6

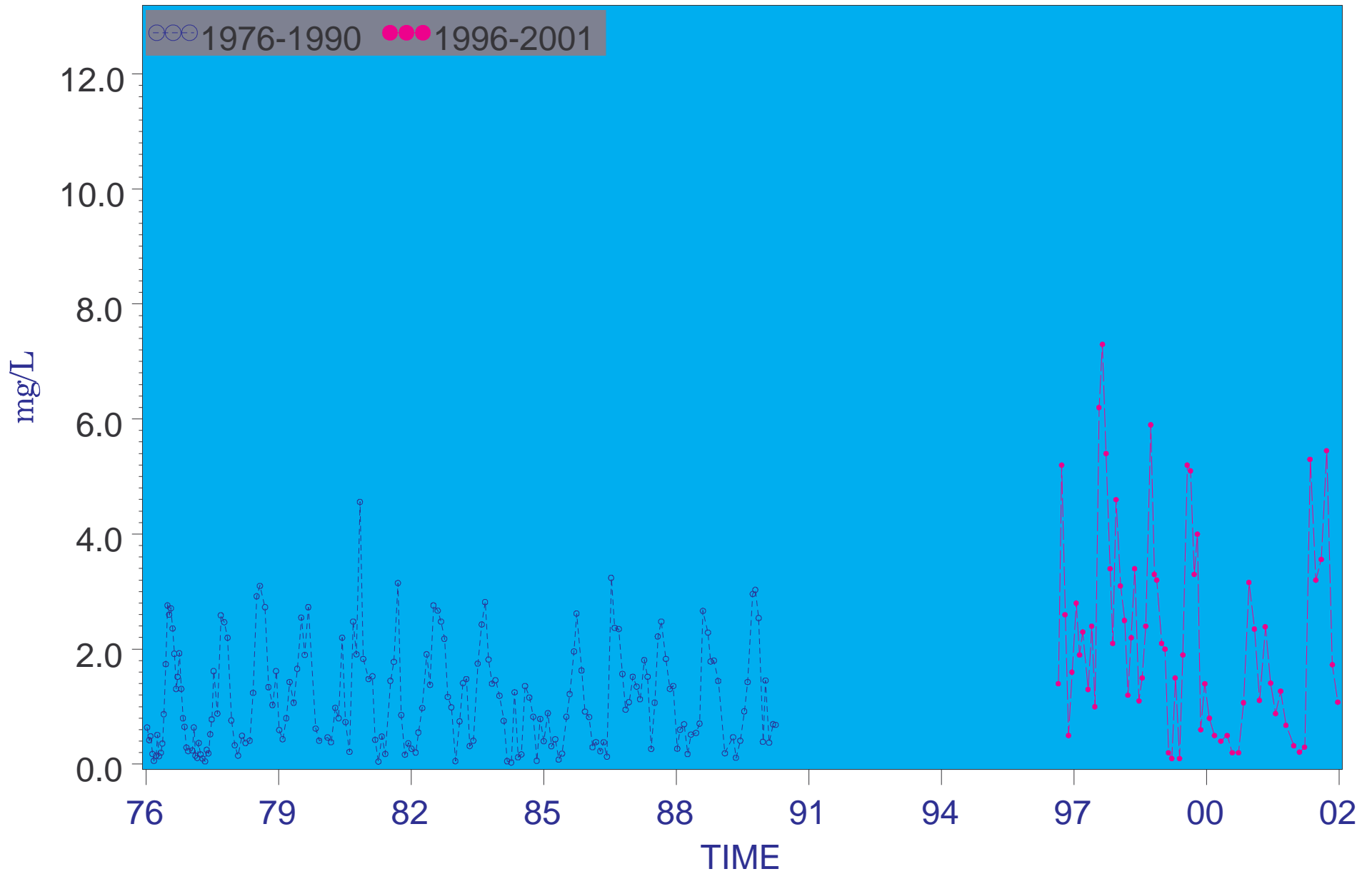


Figure 4.31 b Long-term silica at river kilometer 6.6.

Bottom Silica Concentrations River Kilometer=15.5

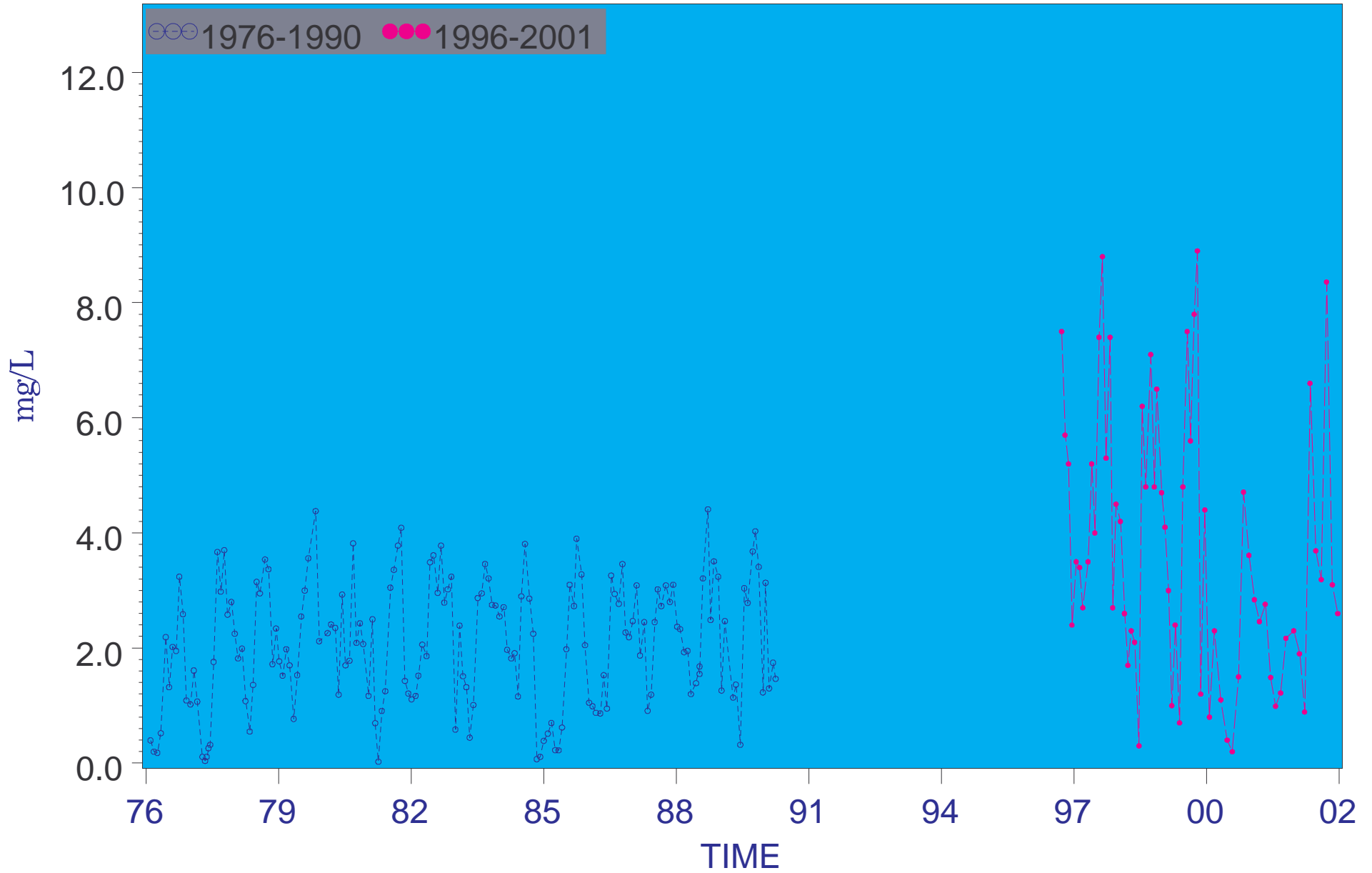


Figure 4.31c Long-term silica at river kilometer 15.5.

Bottom Silica Concentrations River Kilometer=23.6

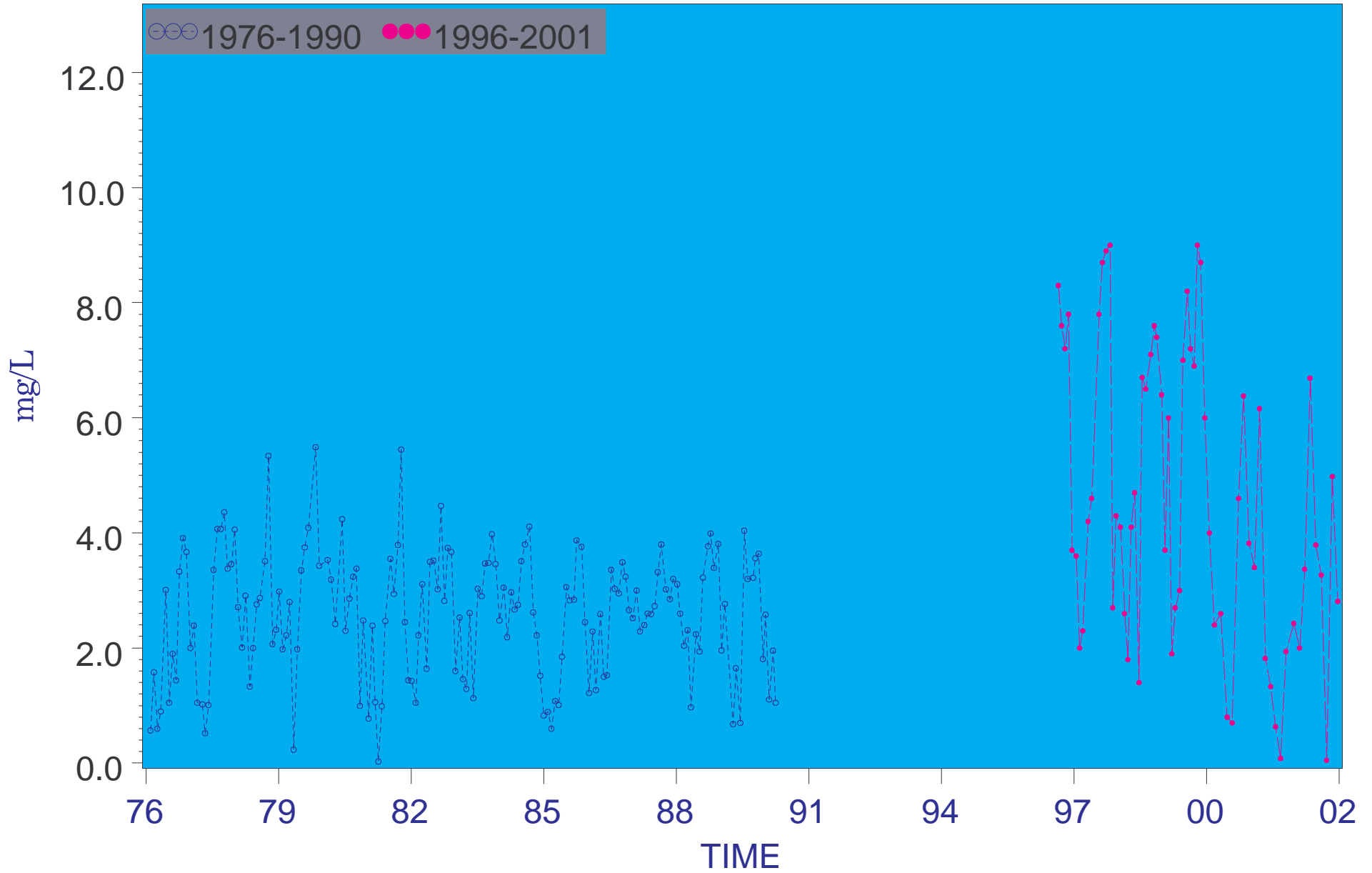


Figure 4.31 d Long-term silica at river kilometer 23.6.

Bottom Silica Concentrations River Kilometer=30.4

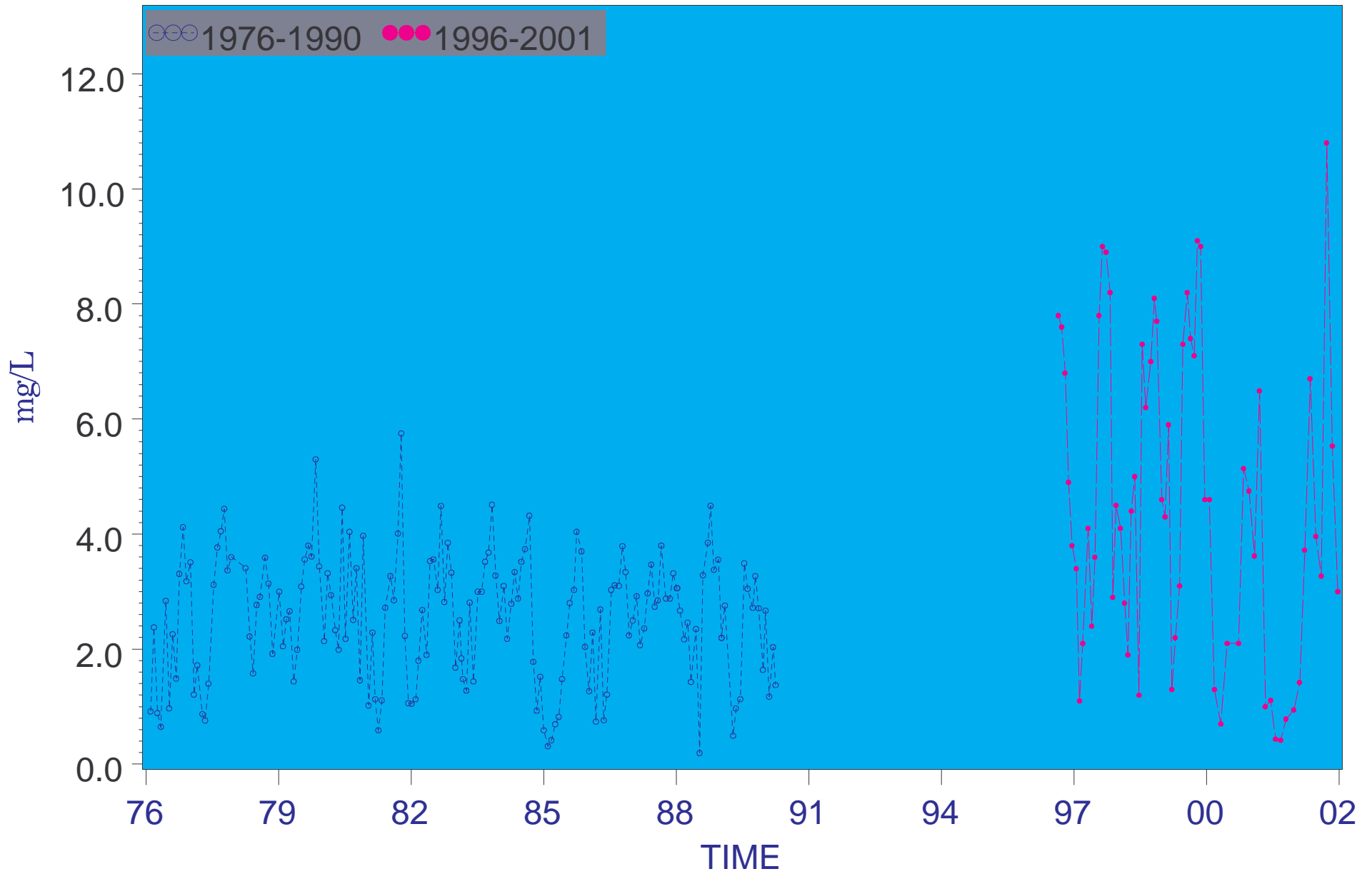


Figure 4.31 e Long-term silica at river kilometer 30.4.

Surface Total Organic Carbon Concentrations River Kilometer=6.6

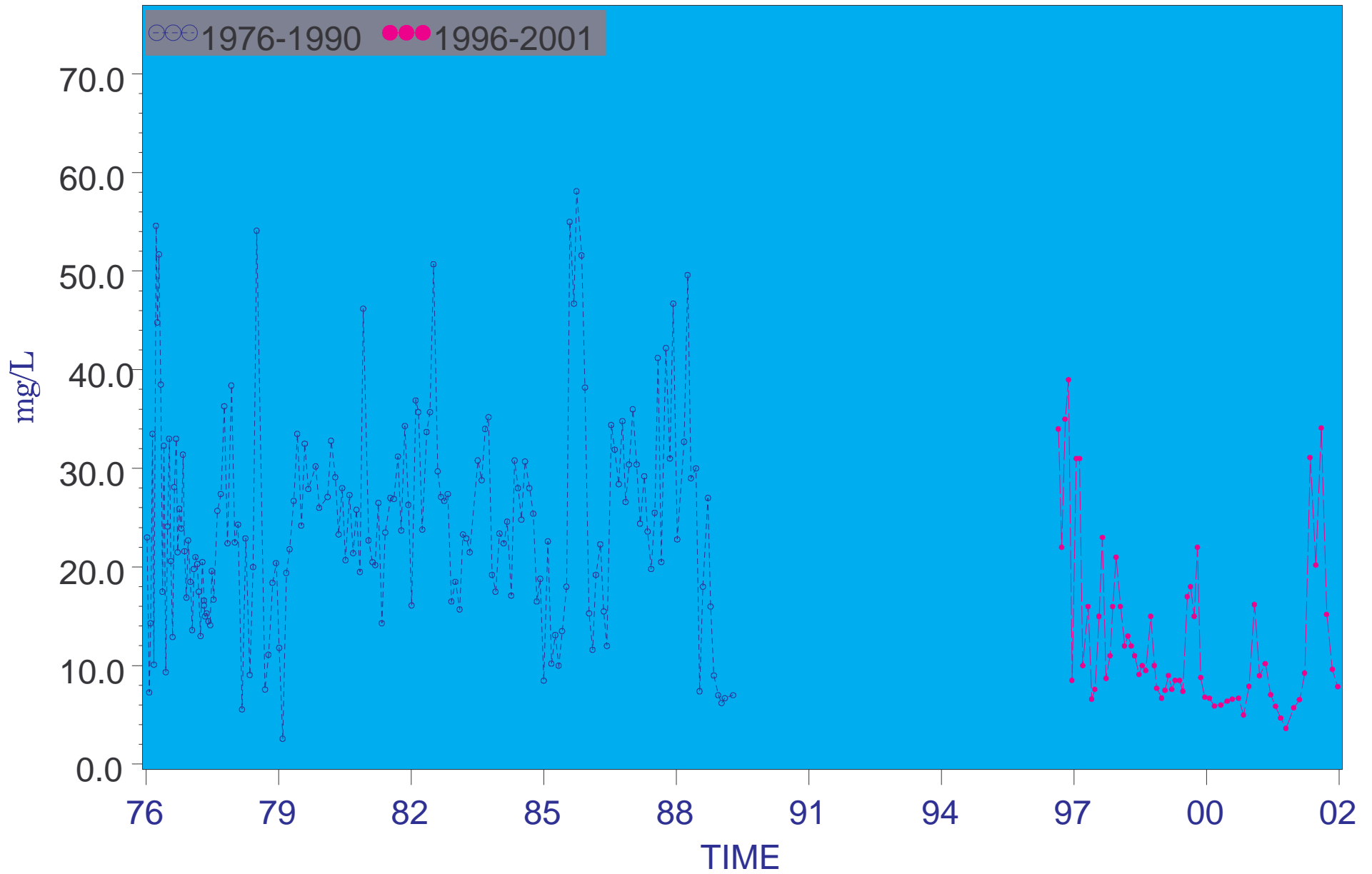


Figure 4.32 b Long-term total organic carbon at river kilometer 6.6.

Surface Total Organic Carbon Concentrations River Kilometer=15.5

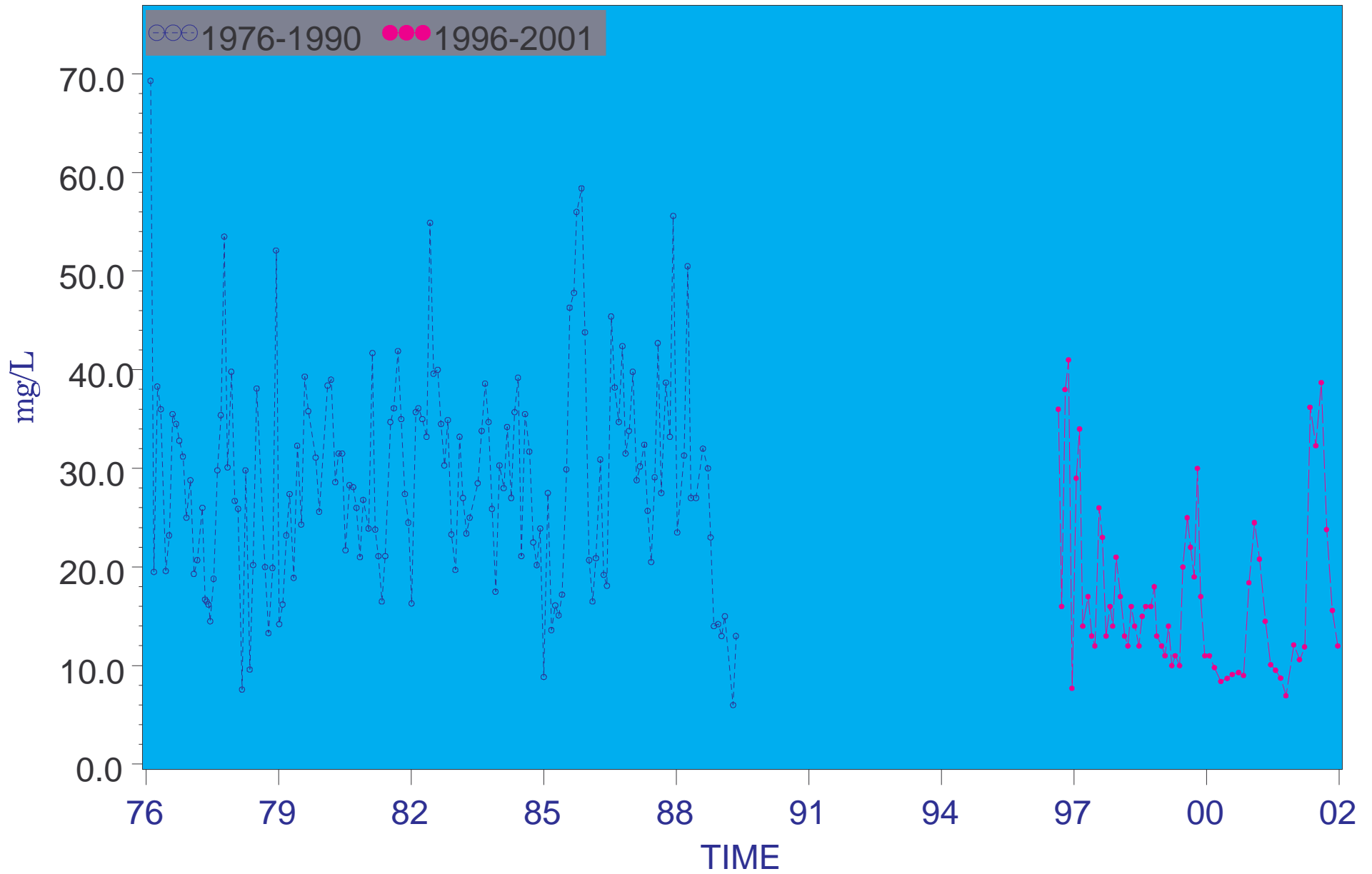


Figure 4.32c Long-term total organic carbon at river kilometer 15.5.

Surface Total Organic Carbon Concentrations River Kilometer=23.6

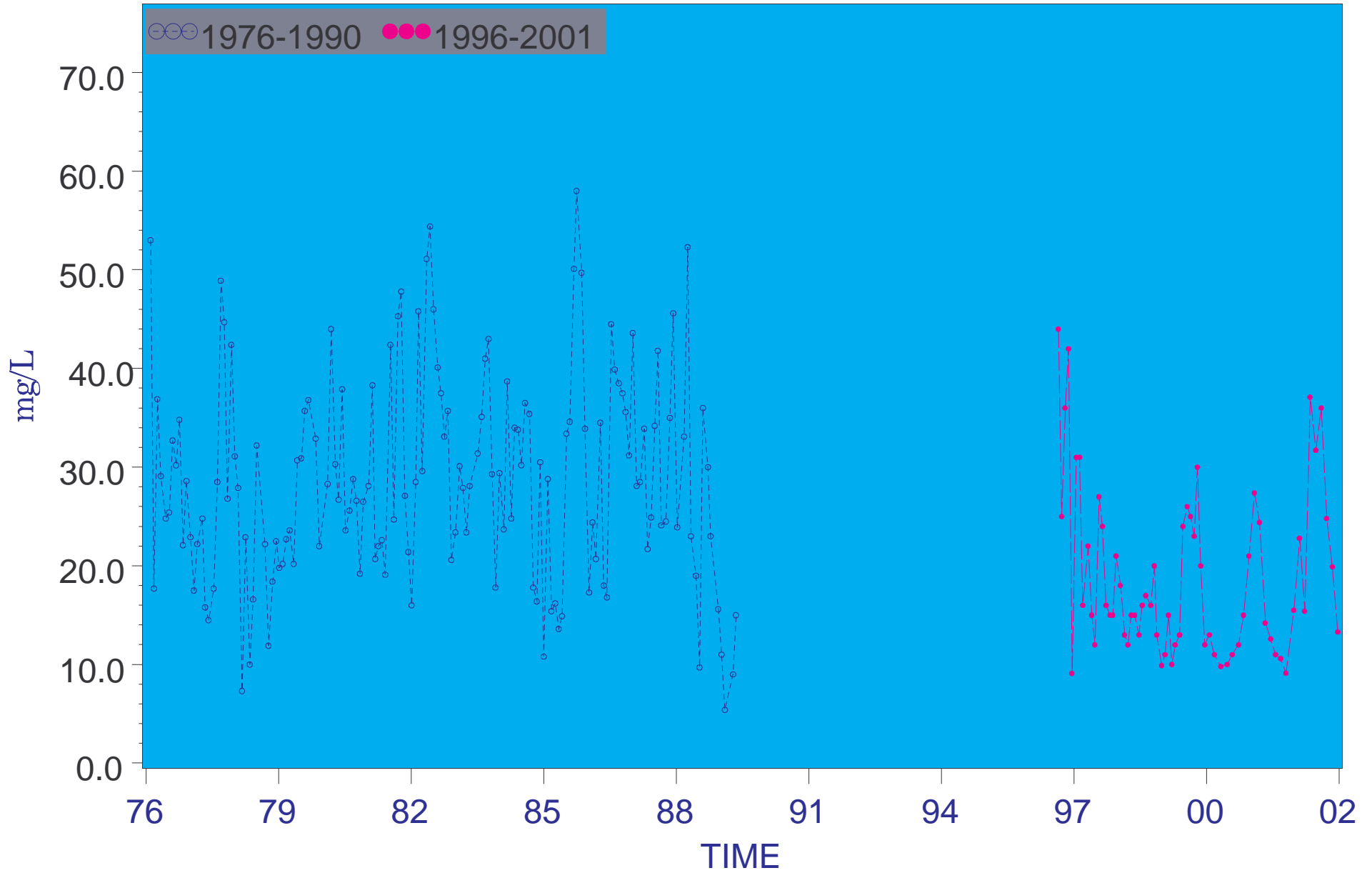


Figure 4.32 d Long-term total organic carbon at river kilometer 23.6.

Surface Total Organic Carbon Concentrations River Kilometer=30.4

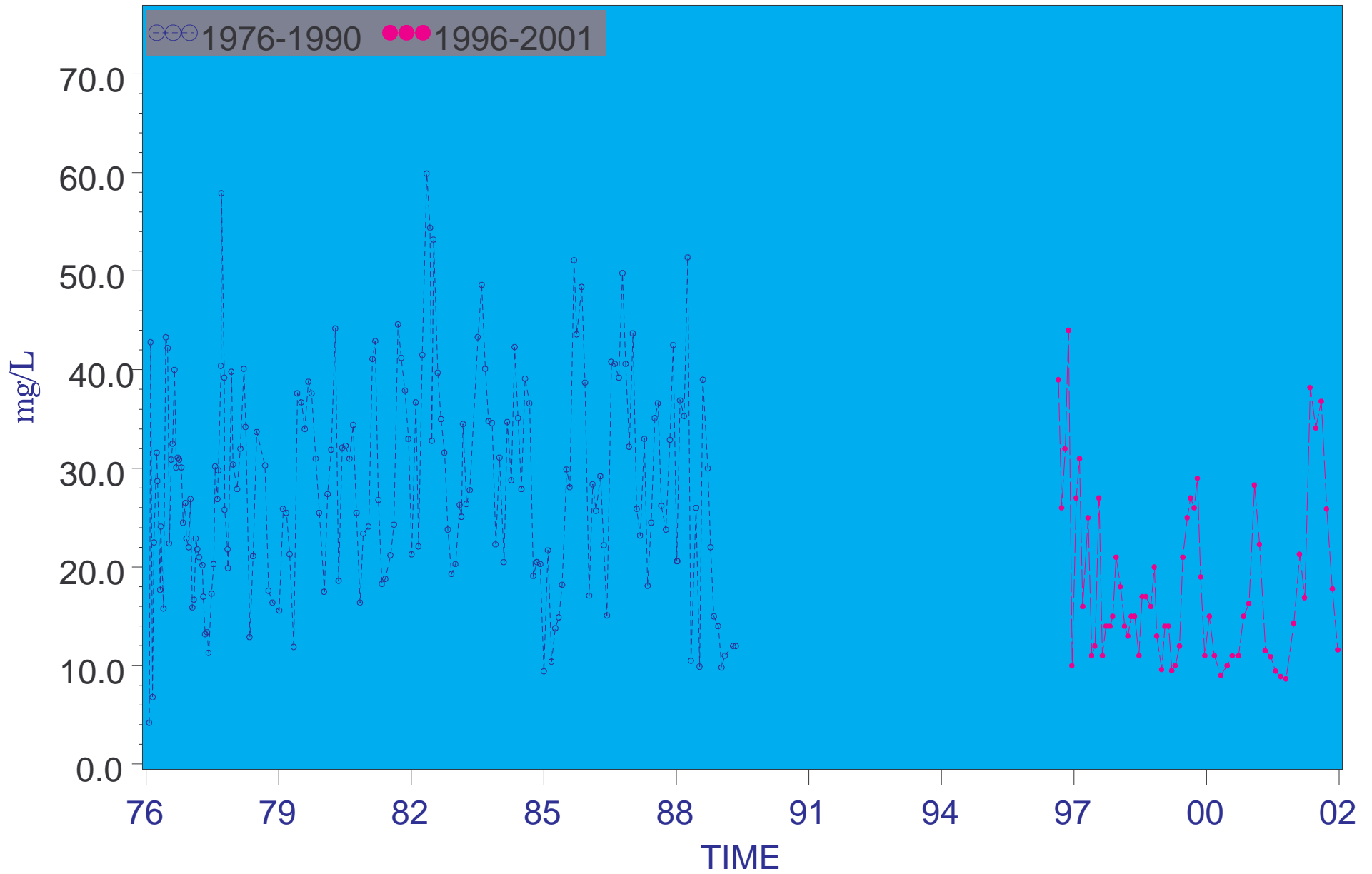


Figure 4.32e Long-term total organic carbon at river kilometer 30.4.

Bottom Total Organic Carbon Concentrations River Kilometer=-2.4

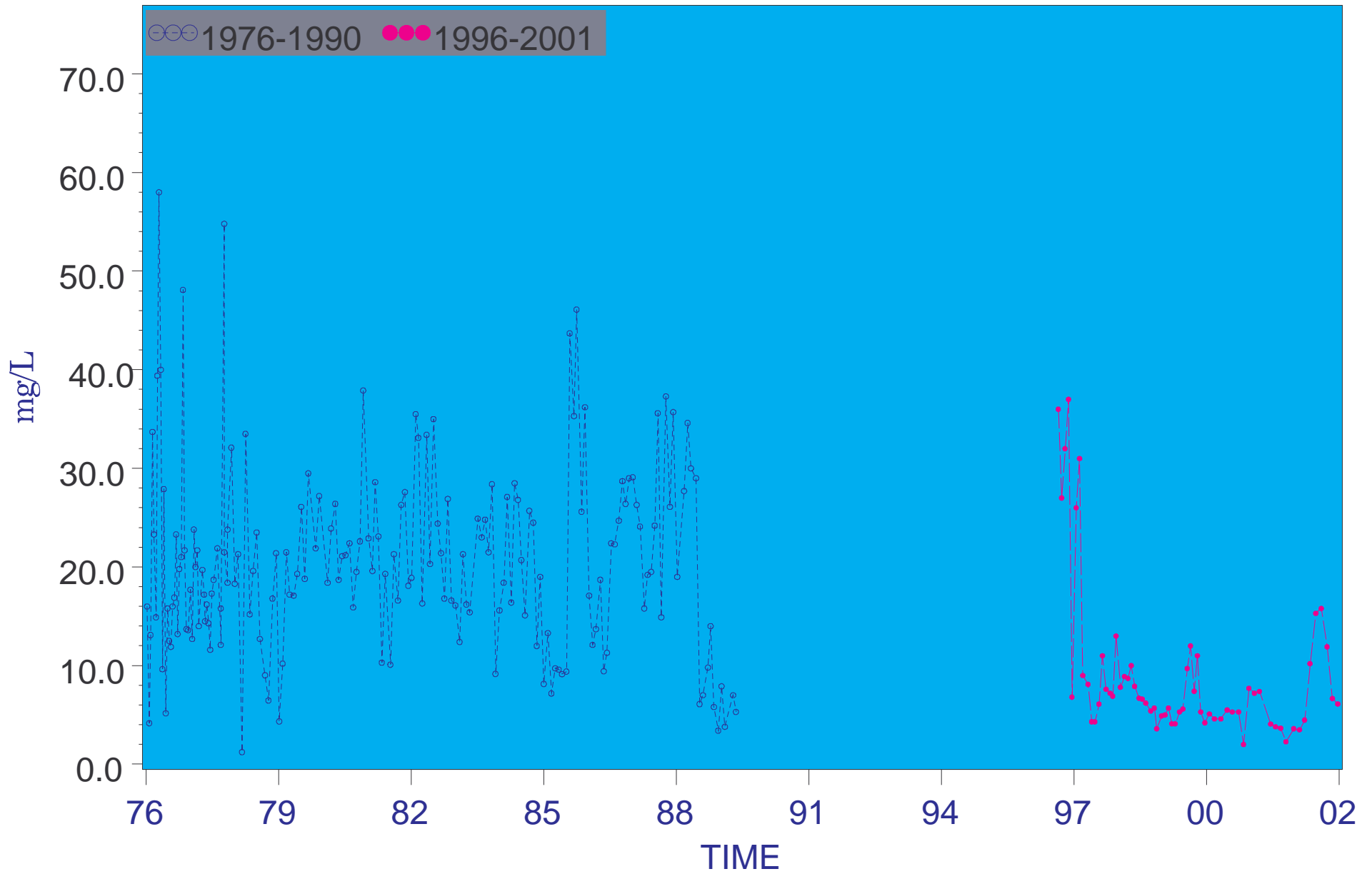


Figure 4.33a Long-term total organic carbon at river kilometer -2.4.

Bottom Total Organic Carbon Concentrations River Kilometer=6.6

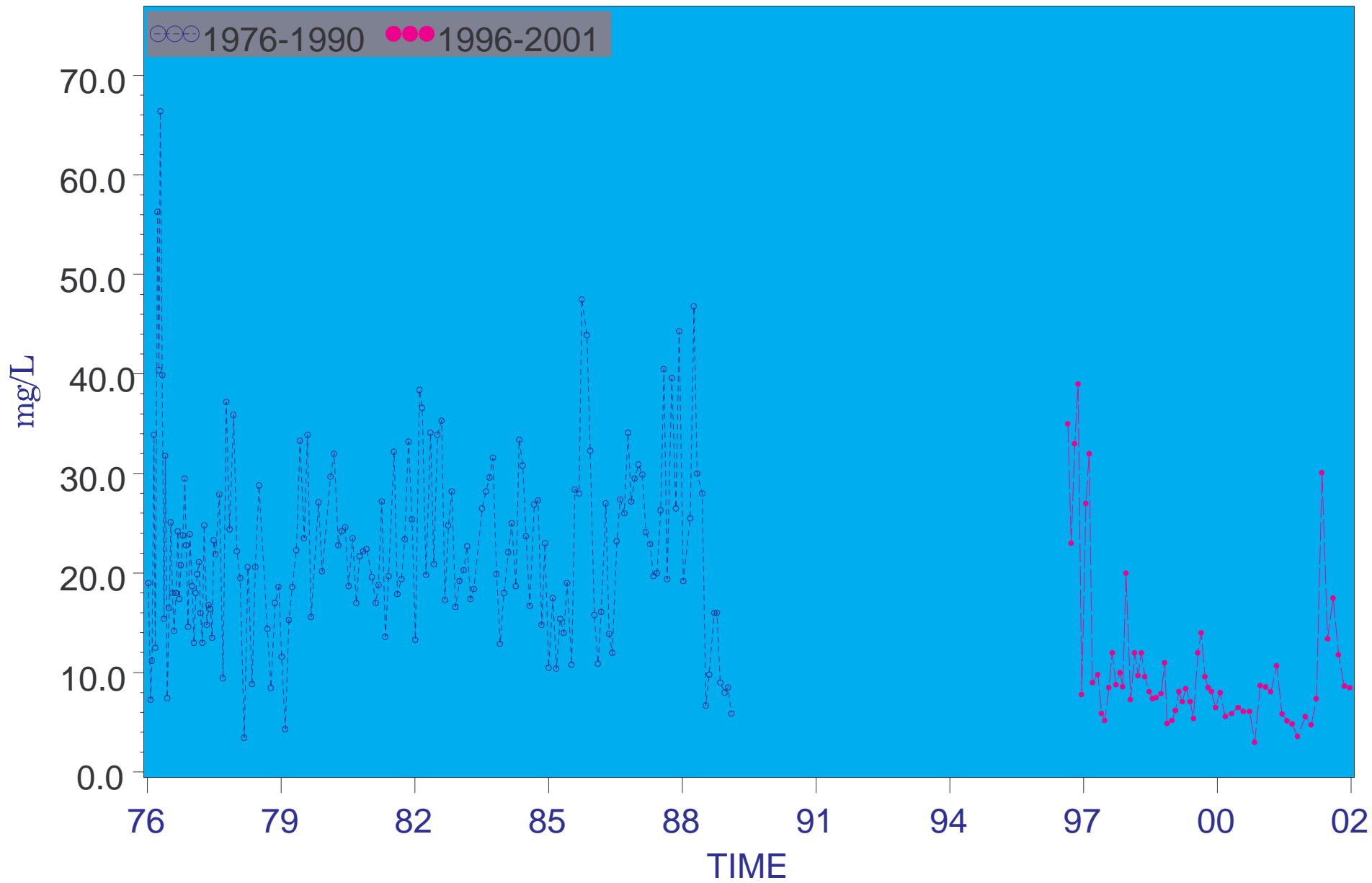


Figure 4.33 b Long-term total organic carbon at river kilometer 6.6.

Bottom Total Organic Carbon Concentrations River Kilometer=15.5

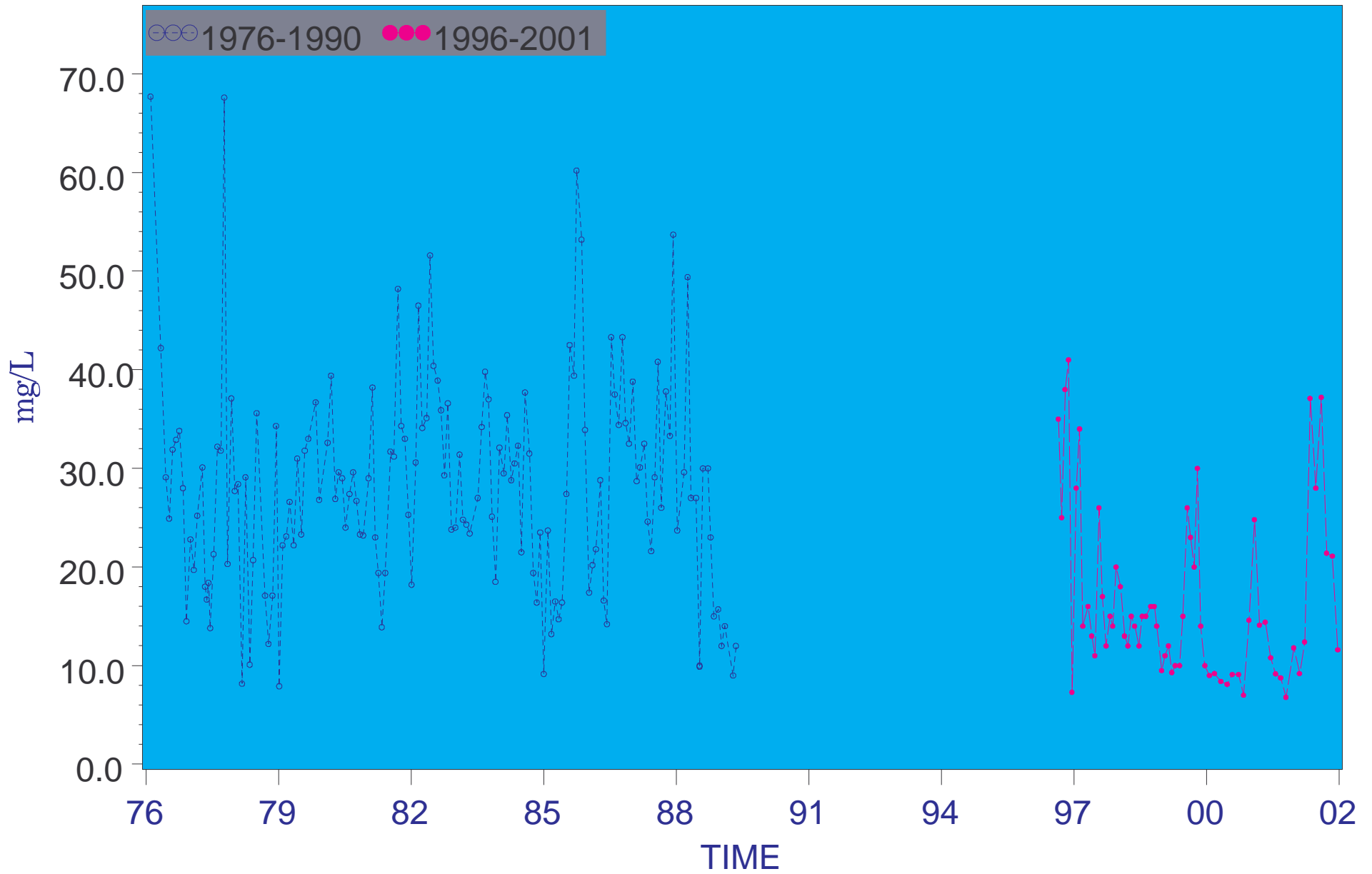


Figure 4.33 c Long-term total organic carbon at river kilometer 15.5.

Bottom Total Organic Carbon Concentrations River Kilometer=30.4

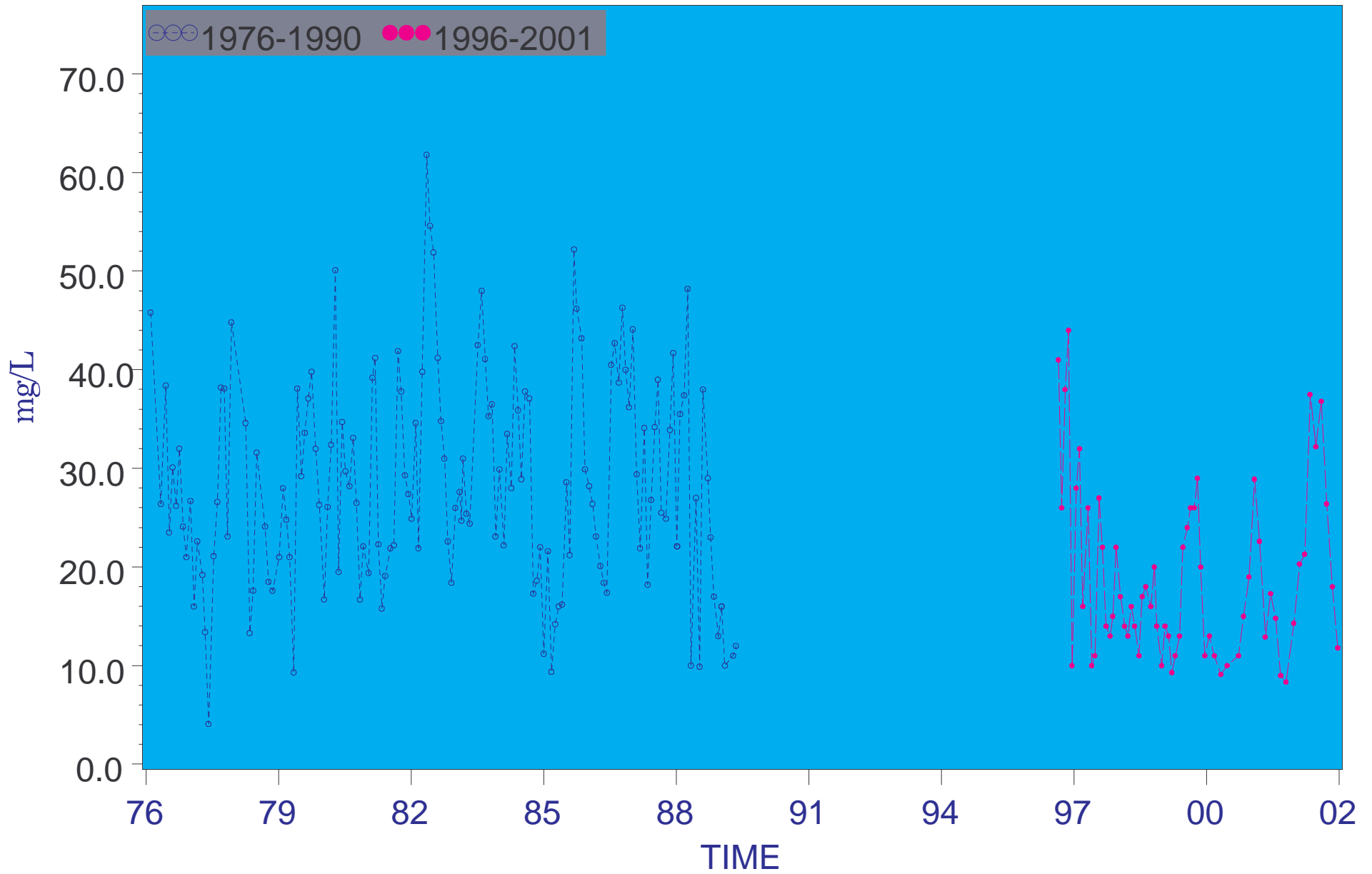


Figure 4.33 e Long-term total organic carbon at river kilometer 30.4

Surface Chlorophyll a Concentrations River Kilometer=-2.4

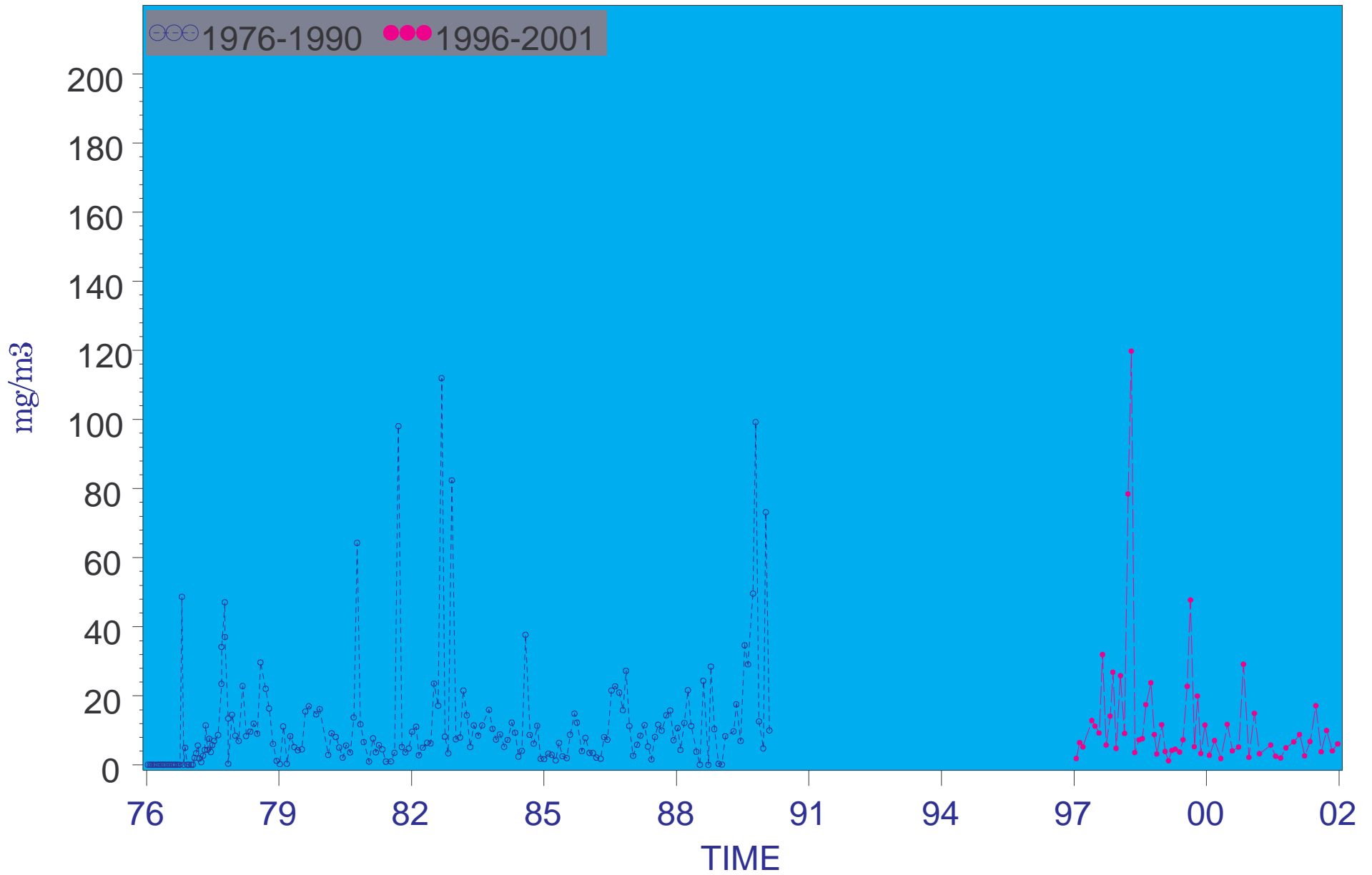


Figure 4.34 a Long-term chlorophyll a at river kilometer -2.4.

Surface Chlorophyll a Concentrations River Kilometer=6.6

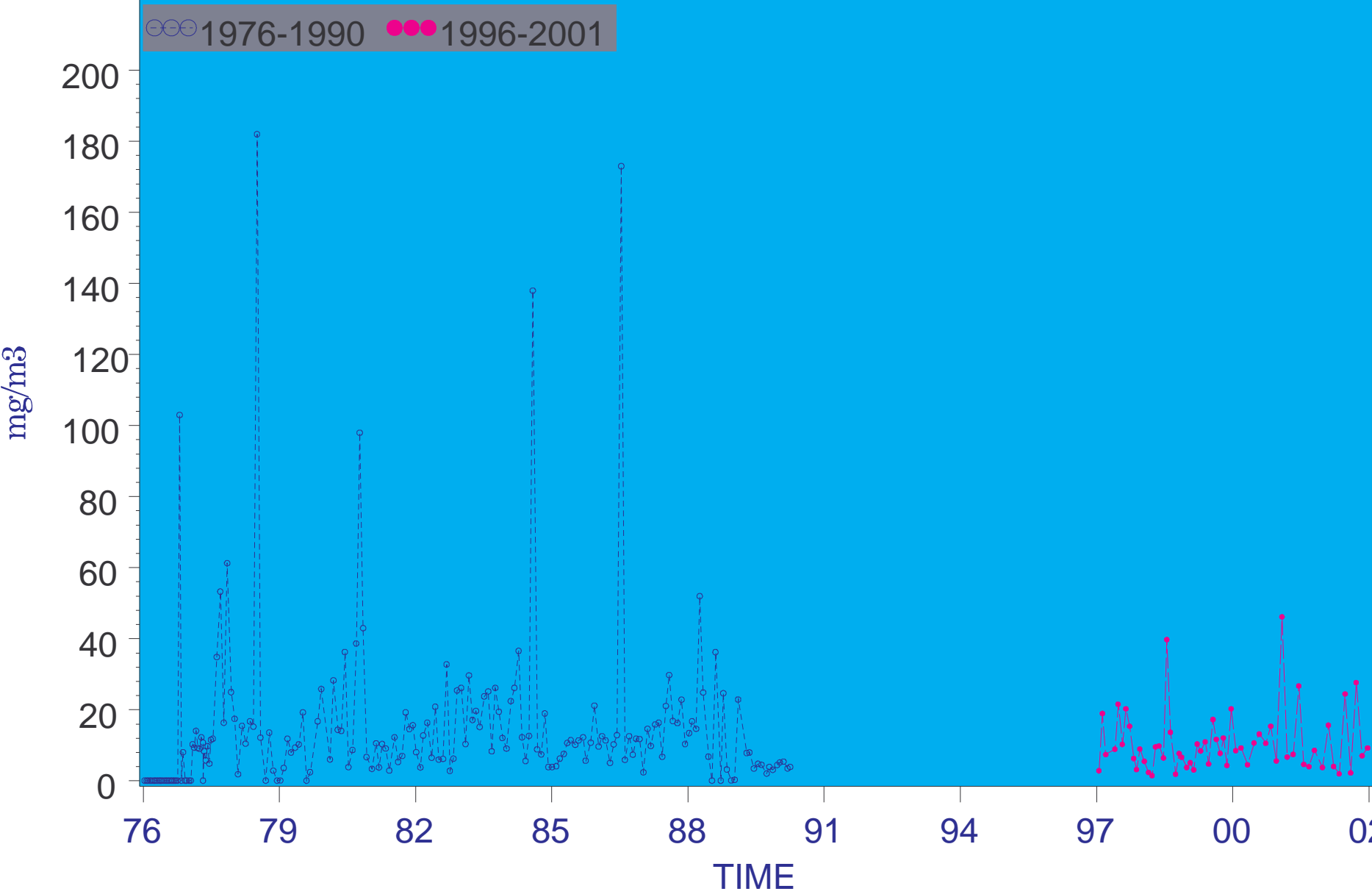


Figure 4.34 b Long-term chlorophyll a at river kilometer 6.6.

Surface Chlorophyll a Concentrations River Kilometer=15.5

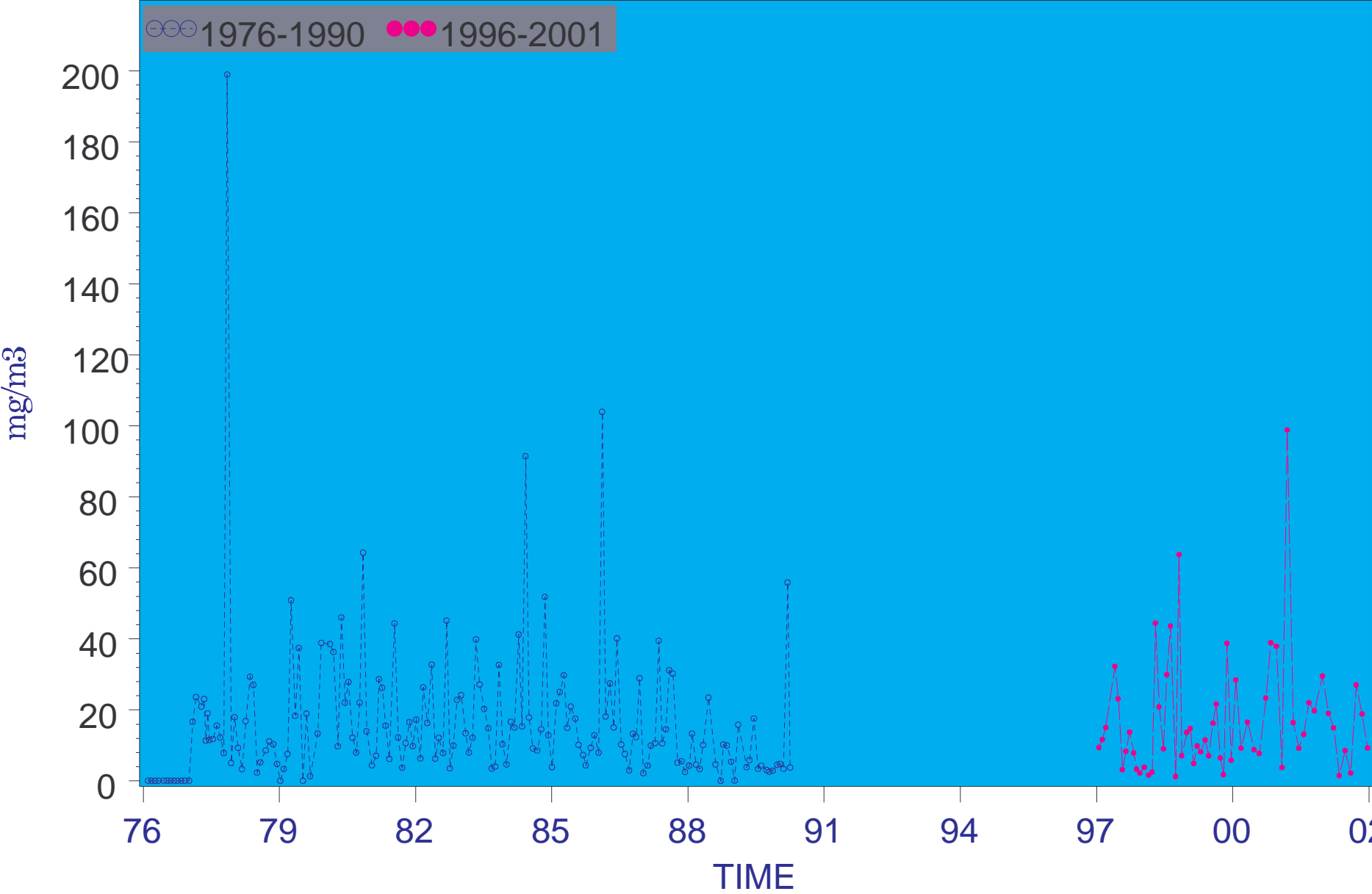


Figure 4.34 c Long-term chlorophyll a at river kilometer 15.5.

Surface Chlorophyll a Concentrations River Kilometer=23.6

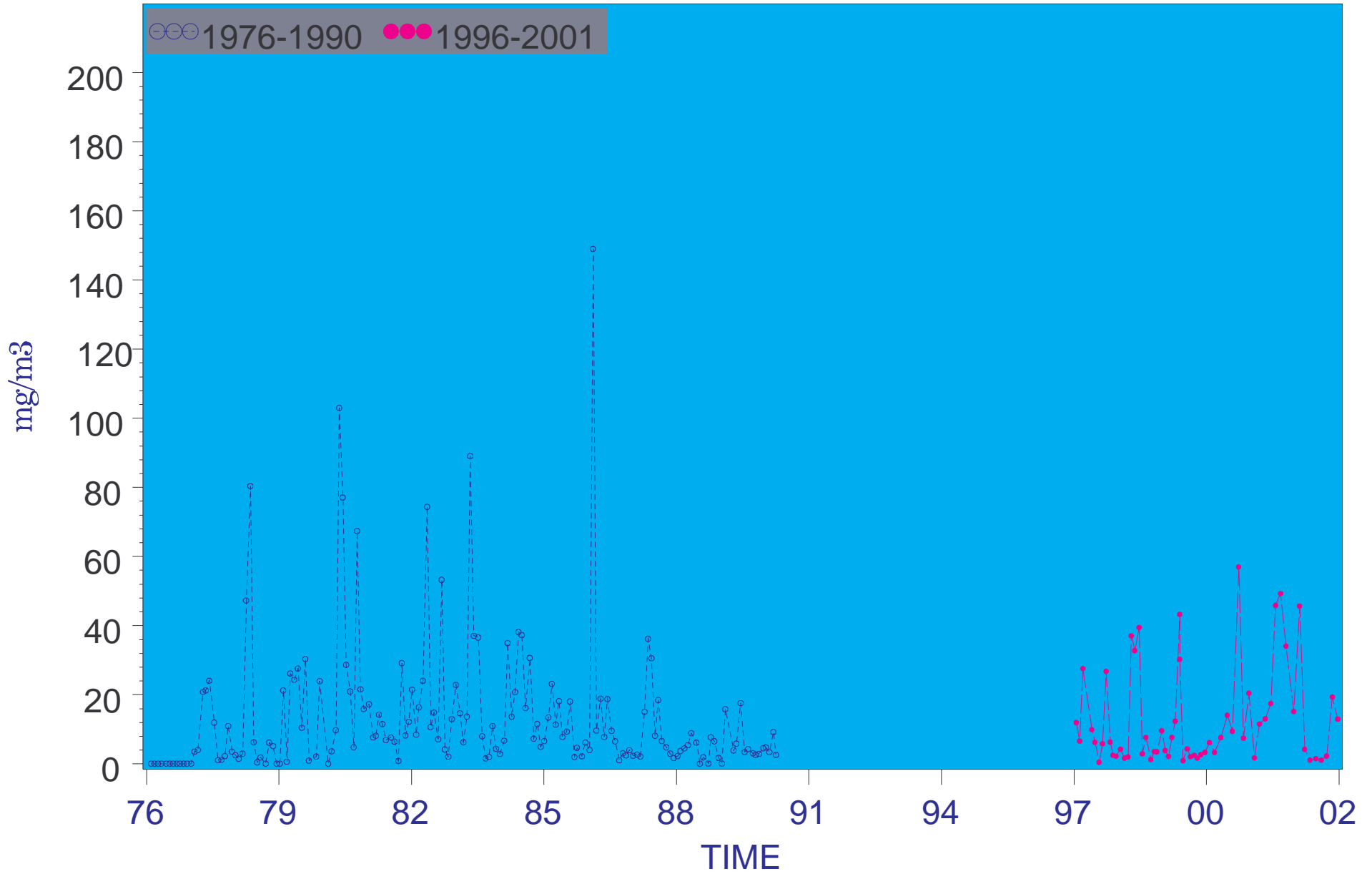


Figure 4.34d Long-term chlorophyll a at river kilometer 23.6.

Surface Chlorophyll a Concentrations River Kilometer=30.4

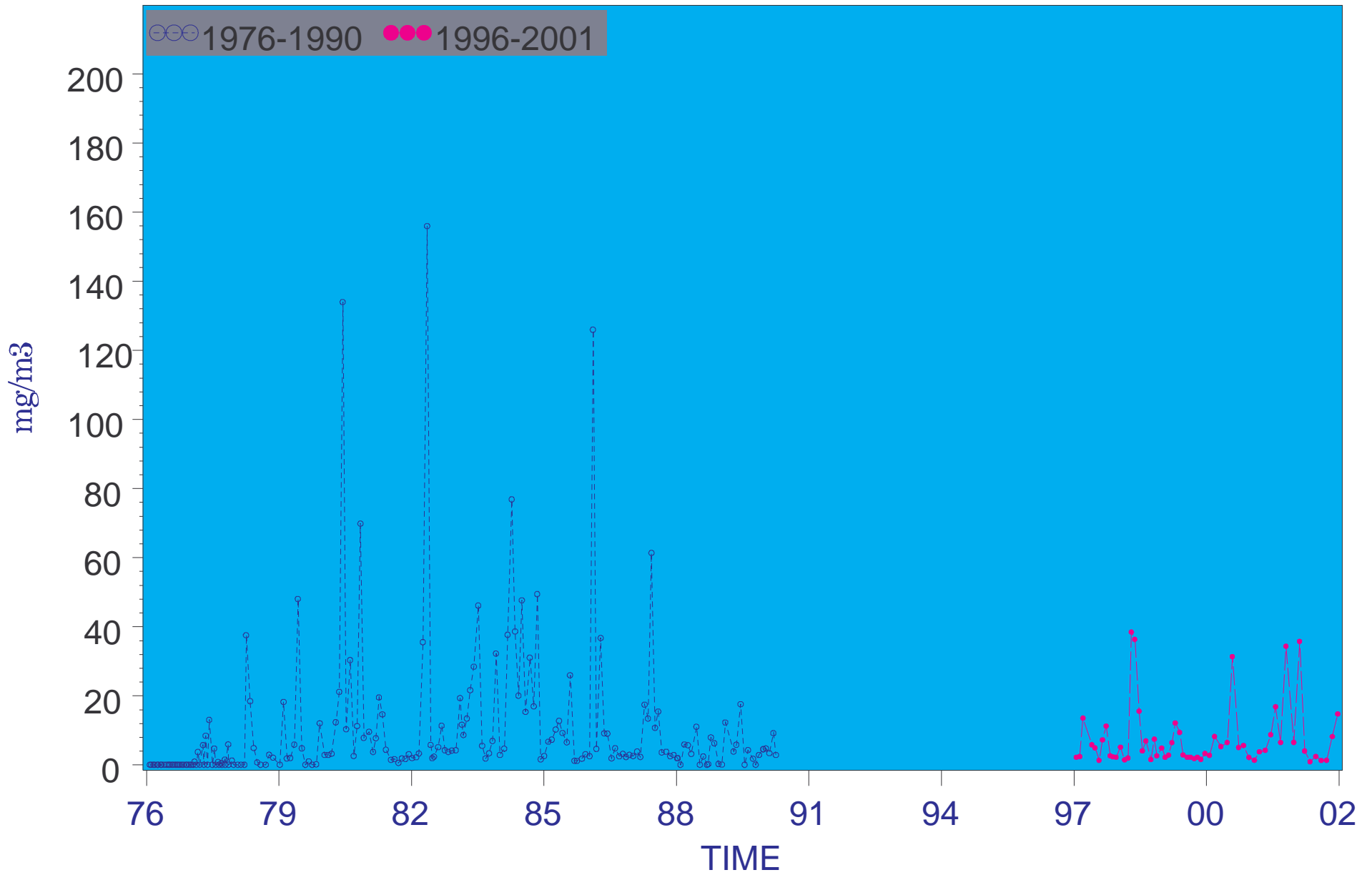


Figure 4.34 e Long-term chlorophyll a at river kilometer 30.4.

Bottom Chlorophyll a Concentrations River Kilometer=-2.4

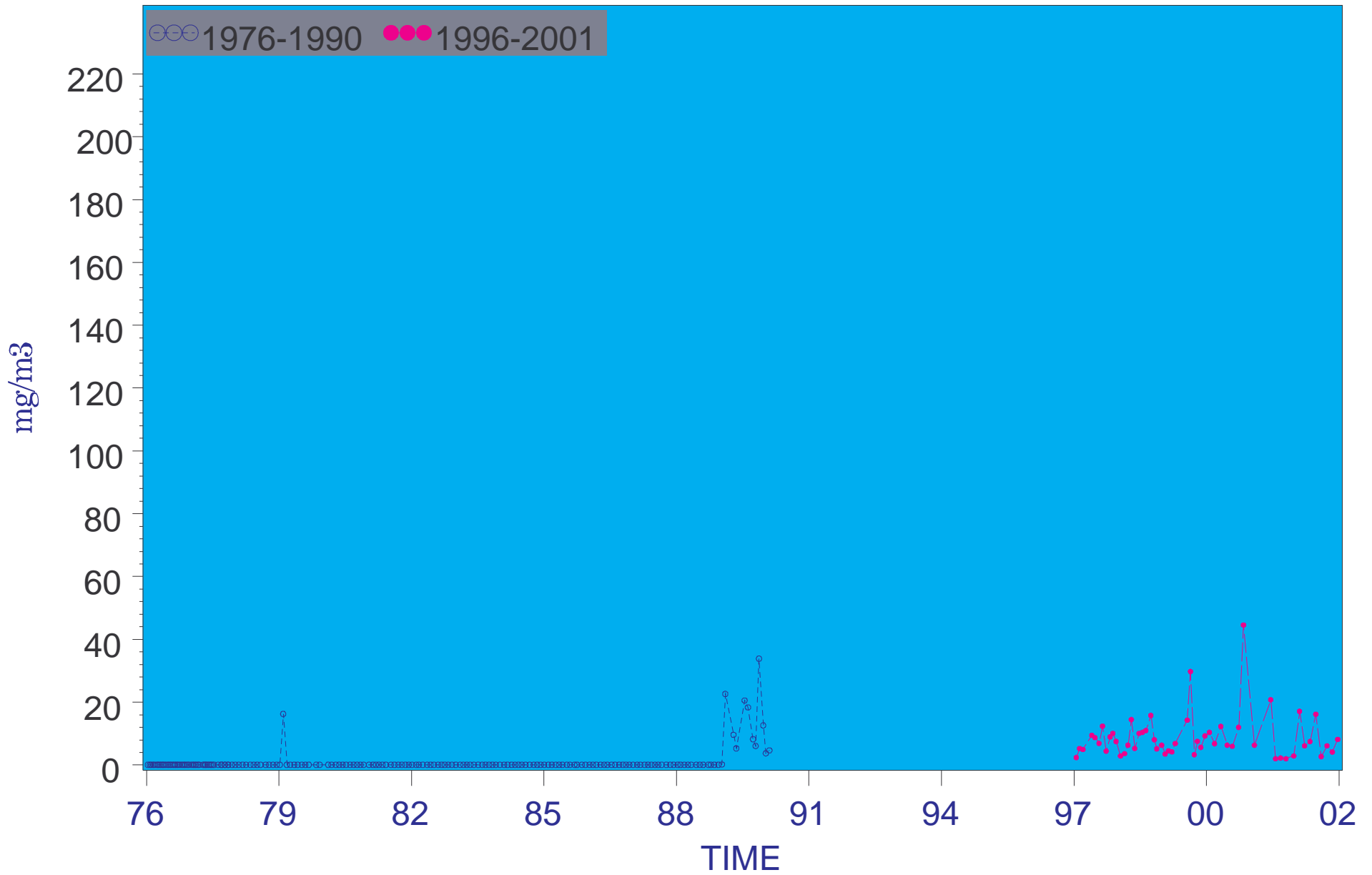


Figure 4.35 a Long-term chlorophyll a at river kilometer -2.4.

Bottom Chlorophyll a Concentrations River Kilometer=6.6

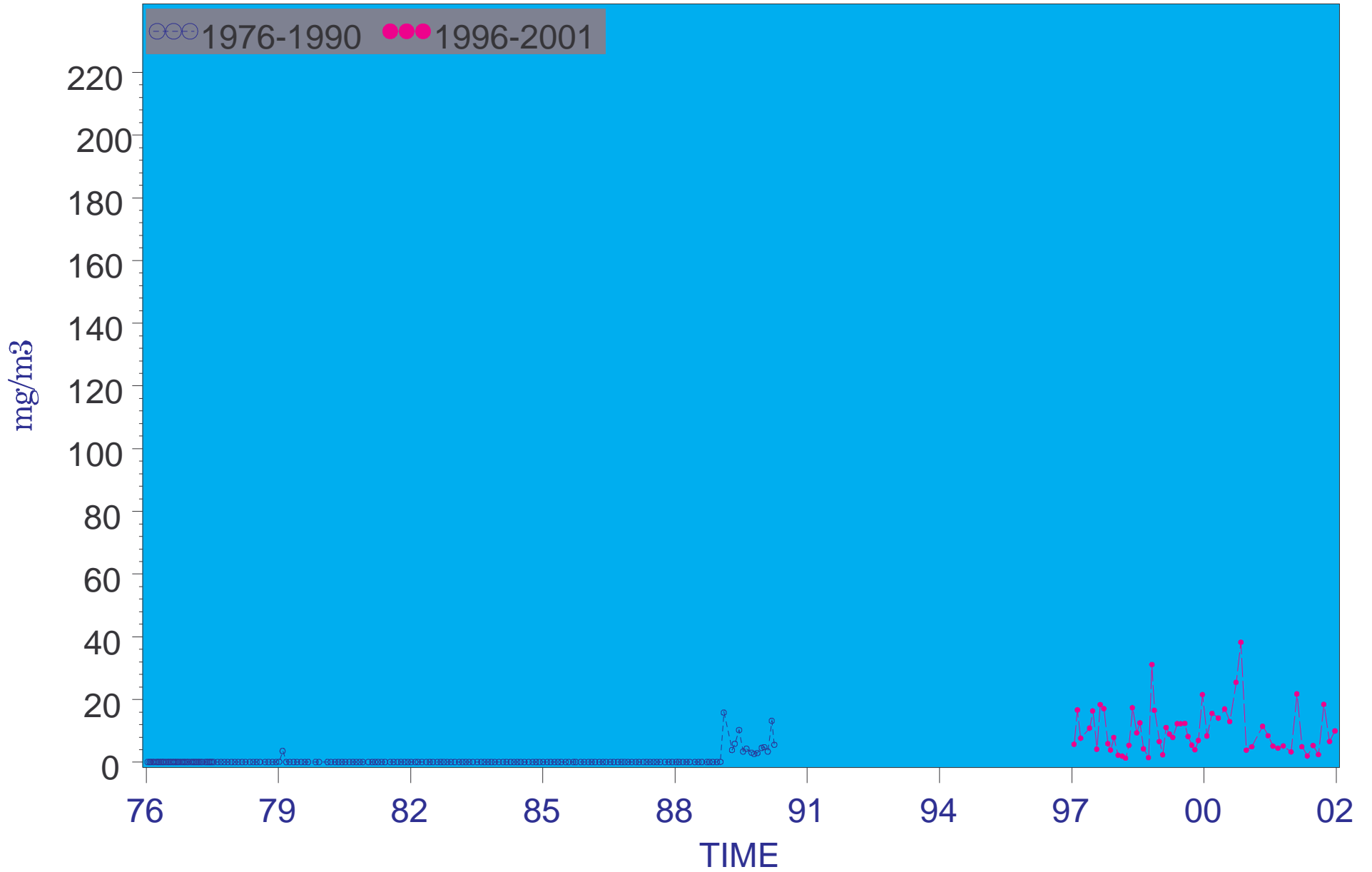


Figure 4.35 b Long-term chlorophyll a at river kilometer 6.6.

Bottom Chlorophyll a Concentrations River Kilometer=15.5

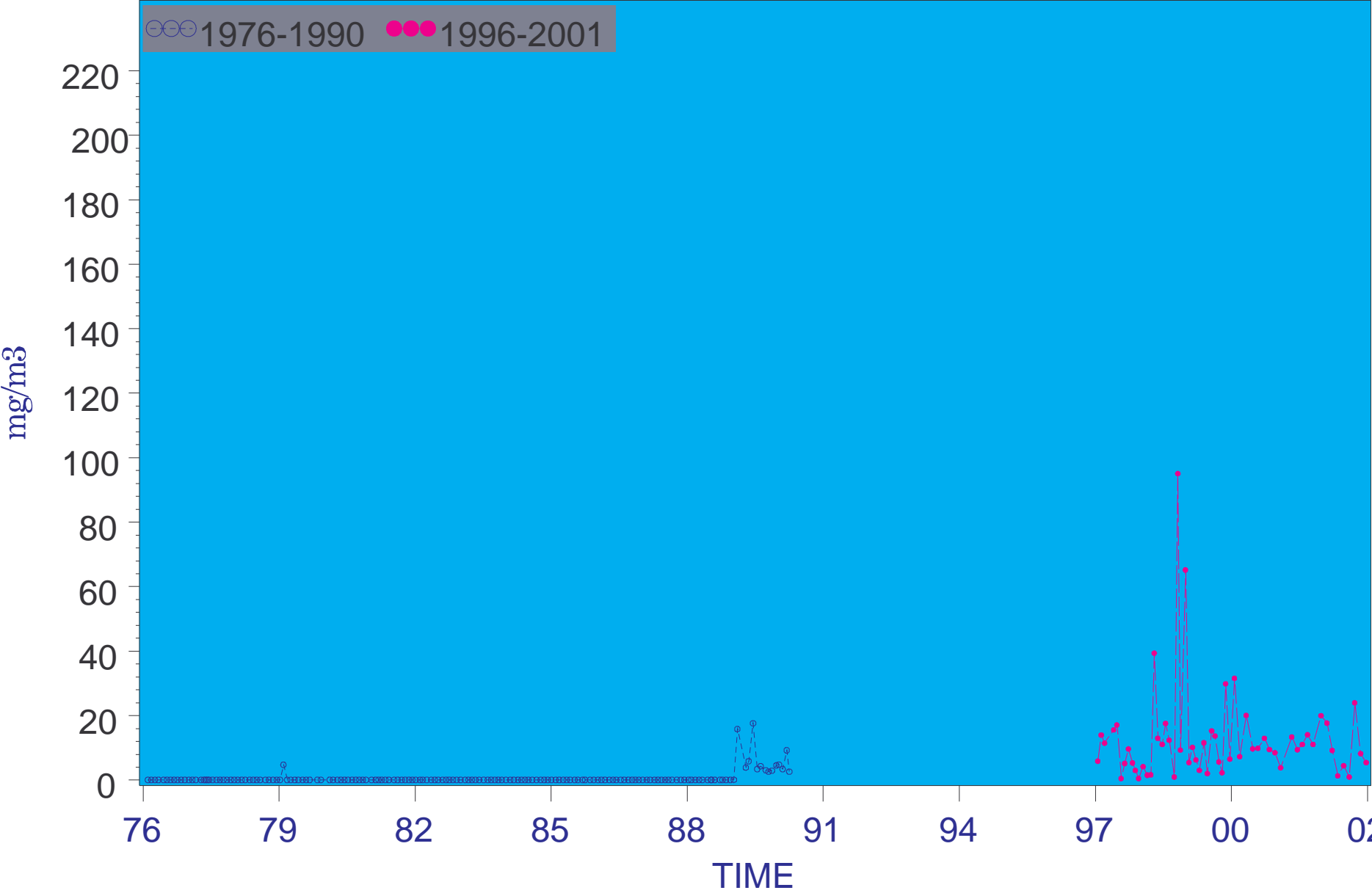


Figure 4.35 c Long-term chlorophyll a at river kilometer 15.5.

Bottom Chlorophyll a Concentrations River Kilometer=23.6

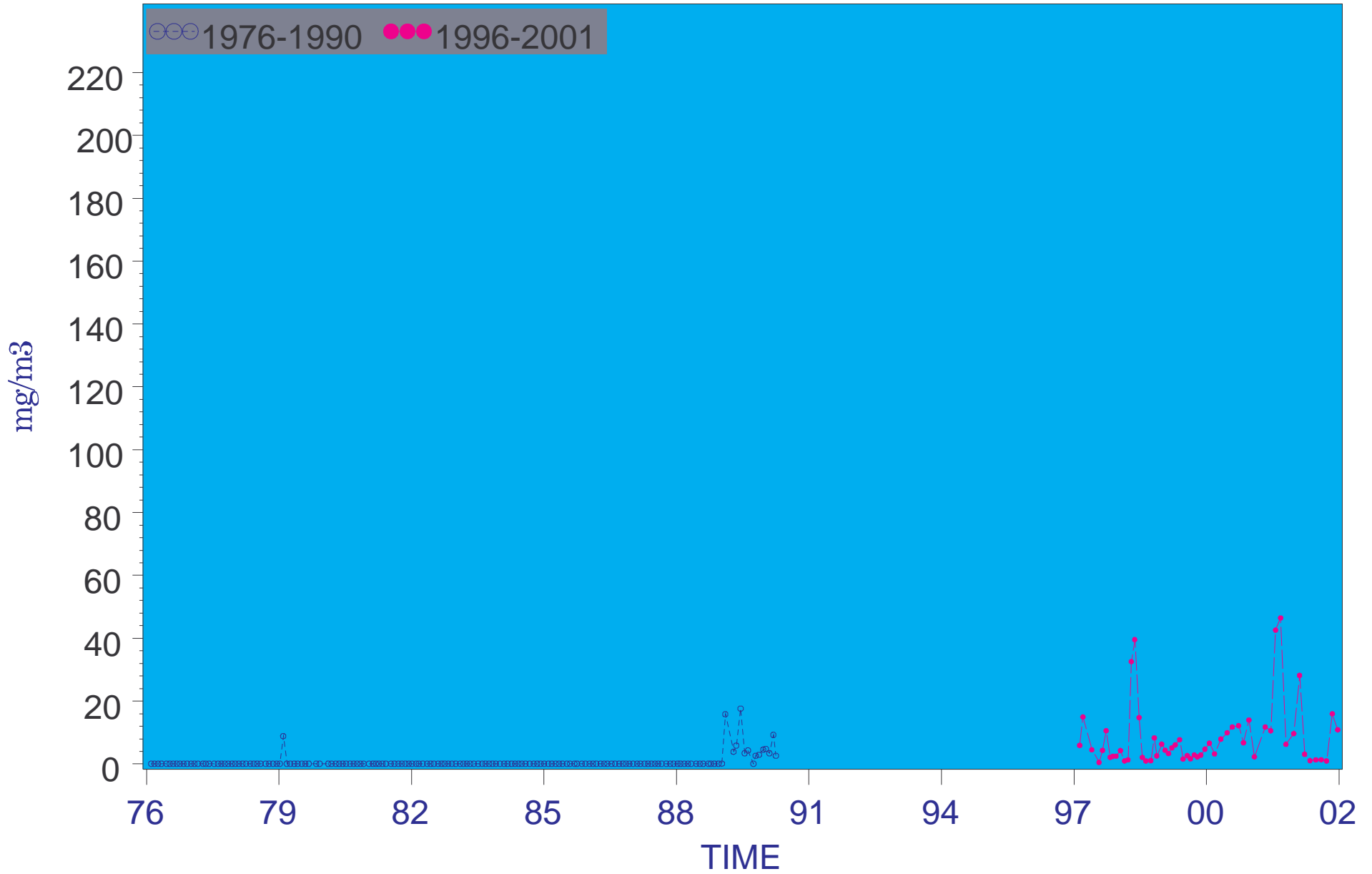


Figure 4.35 d Long-term chlorophyll a at river kilometer 23.6.

Bottom Chlorophyll a Concentrations River Kilometer=30.4

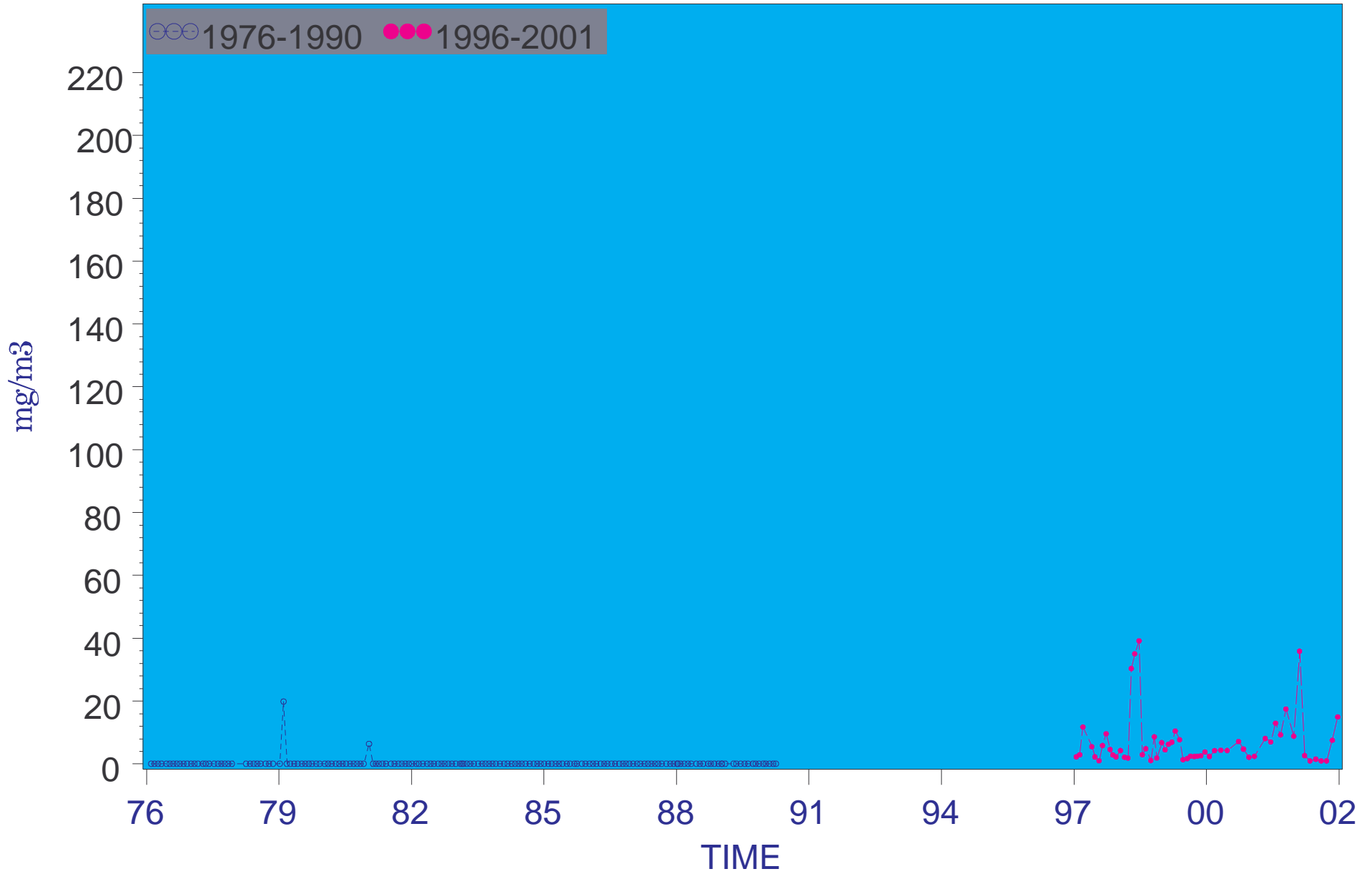


Figure 4.35 e Long-term chlorophyll a at river kilometer 30.4.



[Back to Start](#)

Chapter V

Continuous Recorders

5.1 Overview

The U.S. Geological Survey (USGS) began a cooperative water quality data collection program with the Peace/Manasota Regional Water Supply Authority (PMRWSA) in August 1996. As part of this program, the USGS initiated continuous (15 minute intervals) monitoring of:

1. Water level, as well as surface and bottom specific conductance and temperature at Harbour Heights on the Peace River. The USGS designates this site as 2297460, and it is located at river kilometer 15.5.
2. Water level near Boca Grande at the USGS designated site 2643120821530000, and is approximately located near river kilometer –31.8.

In November 1997 the USGS added a third gaging station (see [Figure 5.a](#)) designated by USGS as site 2297350 (Peace River Heights) located at river kilometer 26.7. Measurements taken at this upstream location include both water level, and surface and bottom specific conductance and temperature.

5.2 Field Activities Continuous Recorder Sites

Water level is measured at each of the three continuous recording sites (stations 264312082153000, 02297460 and 02297350) using a float sensor in a PVC stilling well (Rantz and others, 1982). Data is recorded at 15-minute intervals using a Campbell Scientific CR-10 electronic data logger. Near surface, and near bottom, specific conductance and temperature are measured in the Peace River at stations 02297460 and 02297350 using USGS combination temperature and specific conductance probes. Readings are averaged over a two-minute interval and are recorded at 15-minute intervals.

Near surface sensors are suspended 1 ft below the surface using a float in a stilling well. The near bottom sensors are suspended about 1 ft from the bottom in the same stilling well as the near surface sensor.

Data are retrieved at approximately monthly intervals or more often as needed. Once data are retrieved, the calibration stability of the specific conductance and temperature sensors is checked using a field thermometer and specific conductance standards with

values that bracket the range of expected values in the Peace River. The sensors are cleaned, inspected, and rechecked with the thermometer and specific conductance standards. If needed, the sensor readings are adjusted to the standard values. The sensors are considered calibrated if the temperature is within 0.5 C and the specific conductance is within 5% of the standard values. Calibrations are recorded on calibration forms and these records are maintained by the USGS in Tampa, FL.

5.3 Results USGS Continuous Recorders (2001)

Summaries of the data gathered at each of the three USGS gages are presented in [Appendix I](#).

Gage height, as well as surface and bottom, conductivity and temperature collected at 15-minute intervals at Harbour Height on Peace River (USGS Station 02297460, river kilometer 15.5) are presented in Figures 5.1 through 5.5. Similar plots are shown in Figures 5.6 through 5.10 for the continuous gage at Peace River Heights on the Peace River (USGS Station 02297350, river kilometer 26.7). Gage height data are depicted in Figure 5.11 for the 15-minute interval data collected during 2001 by the USGS at the Boca Grande Station (264312082153000). These graphics are summarized in Table 5.1.

The duration and magnitude of the drought conditions in the watershed are clearly evident by the unusually high surface and bottom conductivities observed at both of the Peace River gages during the spring and early summer of 2001. Conductivities at the more upstream gage rapidly decline once the wet-season began.

Table 5.1 Summary Graphics of 2001 Data from USGS Continuous Recorders.	
Figure	Description
Figure 5.1	Gage Height (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)
Figure 5.2	Surface conductivity (15-minute intervals) for Peace River fixed Station 02297460 (River kilometer)
Figure 5.3	Bottom conductivity (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)
Figure 5.4	Surface temperature (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)
Figure 5.5	Bottom temperature (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer)
Figure 5.6	Gage Height (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
Figure 5.7	Surface conductivity (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
Figure 5.8	Bottom conductivity (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
Figure 5.9	Surface temperature (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)

Table 5.1 Summary Graphics of 2001 Data from USGS Continuous Recorders.	
Figure	Description
Figure 5.10	Bottom temperature (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)
Figure 5.11a	Gage Height (15-minute intervals) for Boca Grande
Figure 5.11b	Gage Height (15-minute intervals) for Boca Grande

Comparisons of gage heights and both surface and bottom conductivity measurements at the two Peace River gage locations, Harbour Heights (river kilometer 15.5) and Peace River Heights (river kilometer 26.7), are presented in Figures 5.12 through 5.23 for the first two weeks in May 2001 (dry-season) and September 2001 (wet- season). An overview of these graphics is presented in Table 5.2.

Table 5.2 Summary Graphics of Comparisons of Stage Height and Surface and Bottom Conductivity During May and September 2001 at the Continuous Recorders.	
Figure	Description
Figure 5.12	Surface Conductivity and Stage Height in May - Station 02297460 (River Kilometer 15.5)
Figure 5.13	Bottom Conductivity and Stage Height in May – Station 02297460 (River Kilometer 15.5)
Figure 5.14	Surface & Bottom Conductivity in May - Station 02297460 (River Kilometer 15.5)
Figure 5.15	Surface Conductivity and Stage Height in September -Station 02297460 (River Kilometer 15.5)
Figure 5.16	Bottom Conductivity and Stage Height in September – Station 02297460 (River Kilometer 15.5)
Figure 5.17	Surface & Bottom Conductivity in September – Station 02297460(River Kilometer 15.5)
Figure 5.18	Surface Conductivity and Stage Height in May - Station 02297350 (River Kilometer 26.7)
Figure 5.19	Bottom Conductivity and Stage Height in May - Station 02297350 (River Kilometer 26.7)
Figure 5.20	Surface & Bottom Conductivity in May – Station 02297350 (River Kilometer 26.7).
Figure 5.21	Surface Conductivity and Stage Height in September - Station 02297350 (River Kilometer 26.7)
Figure 5.22	Bottom Conductivity and Stage Height in September - Station 02297350 (River Kilometer 26.7)
Figure 5.23	Surface & Bottom Conductivity in September - Station 02297350 (River Kilometer 26.7)

As indicated in comparing the series of figures, both surface and bottom conductivities at the downstream Harbour Heights site (river kilometer 15.5) were very strongly influenced by tide when river flows were low. During May, in the dry-season, it was not uncommon

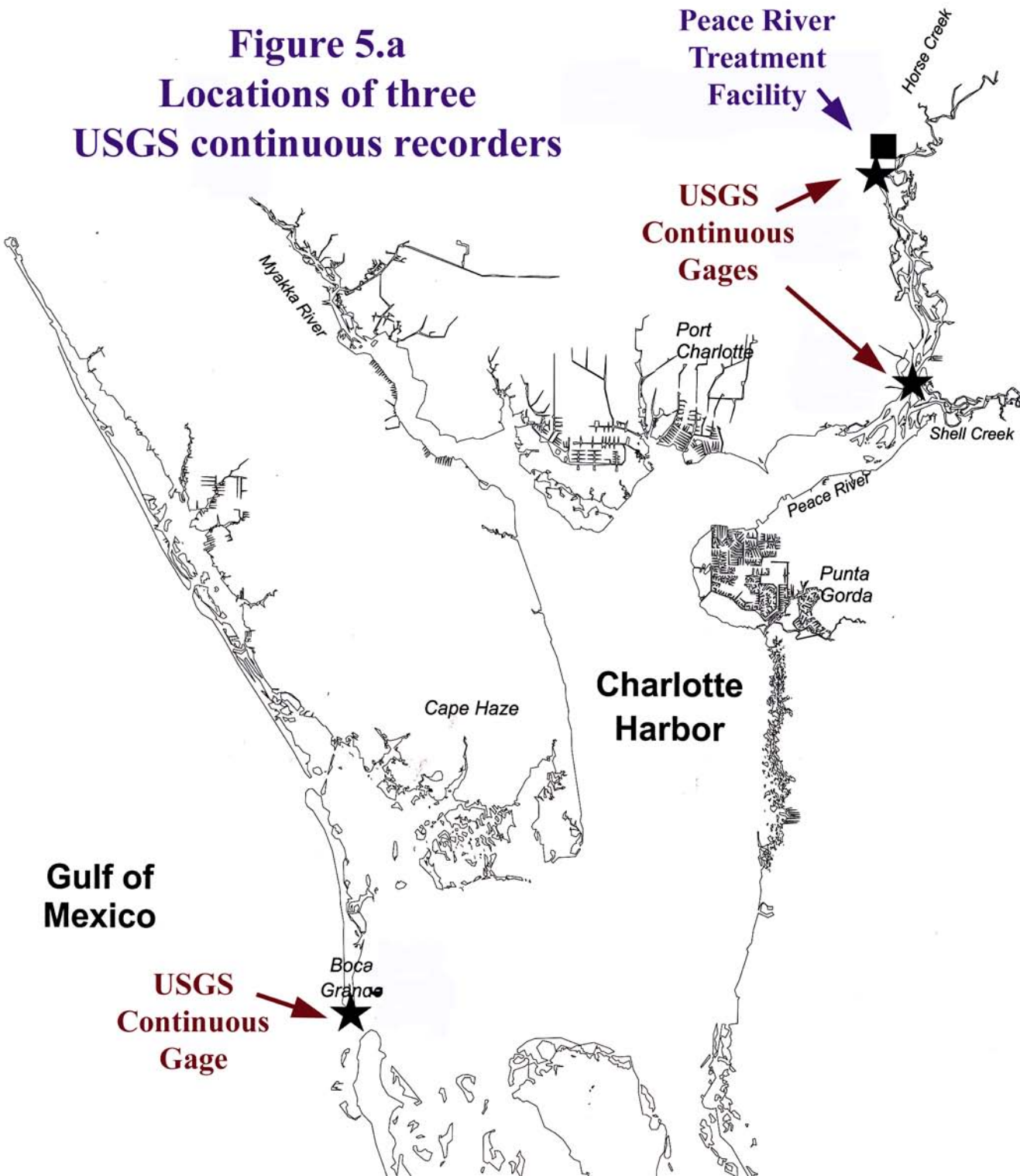
for surface and bottom conductivities to vary 7000 to 13000 uS/cm (roughly 5 to 9 ppt salinity) over a tidal cycle. During August, in the wet-season, this area of the Peace River was characteristically far fresher and daily tidal influences were greatly reduced.

Upstream, the conductivity data collected during May 2000 at the continuous gage at Peace River Heights (river kilometer 26.7) showed tidal variations in conductivity (6000 to 10000 uS/cm). During the wet-season (September), conductivities were extremely low and observed variations showed little tidal influence.



[Back to Start](#)

Figure 5.a
Locations of three
USGS continuous recorders



Peace River at Harbour Heights - Gage Height

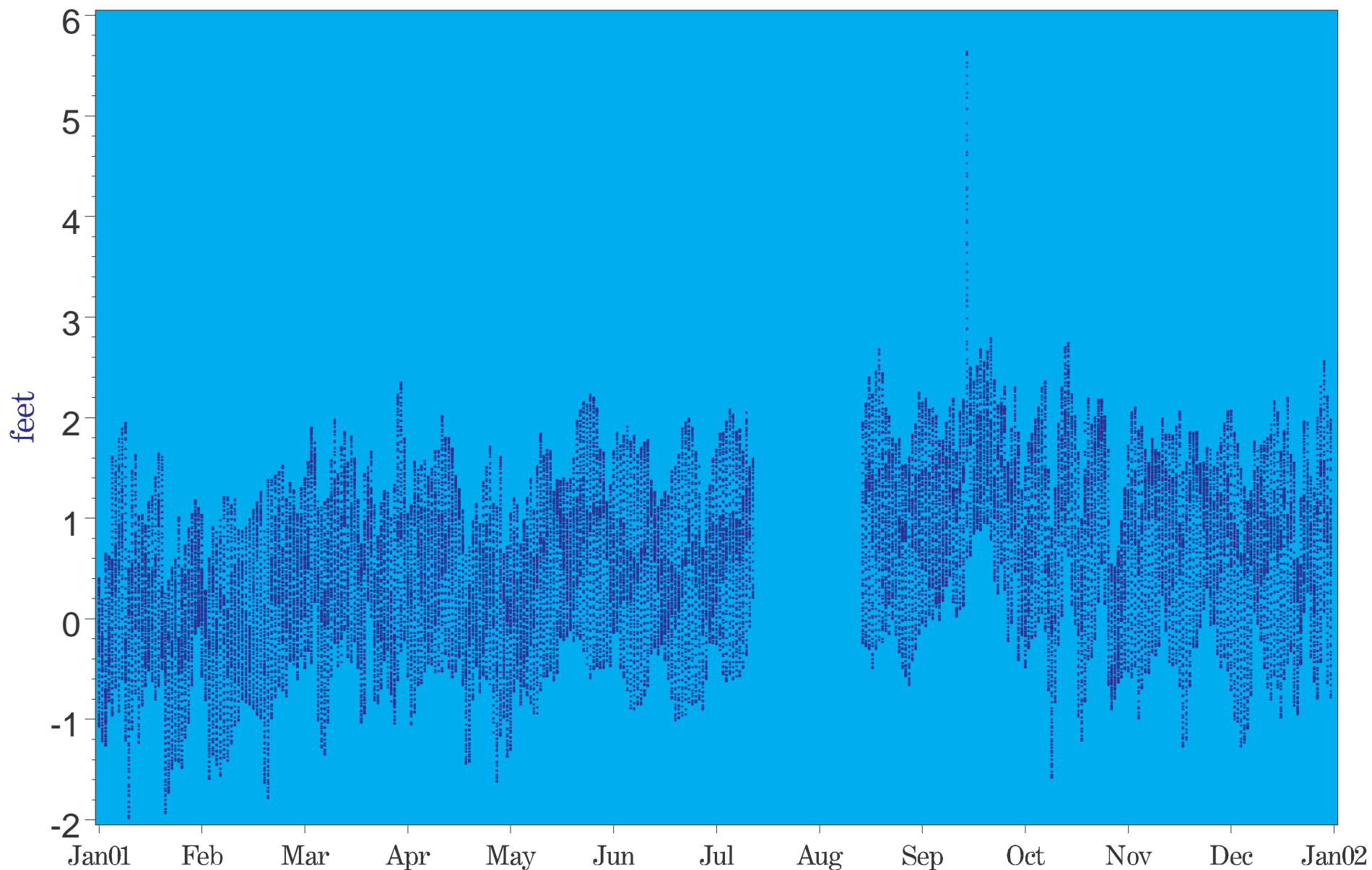


Figure 5.1 Gage height (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

Peace River at Harbour Heights - Surface Conductivity

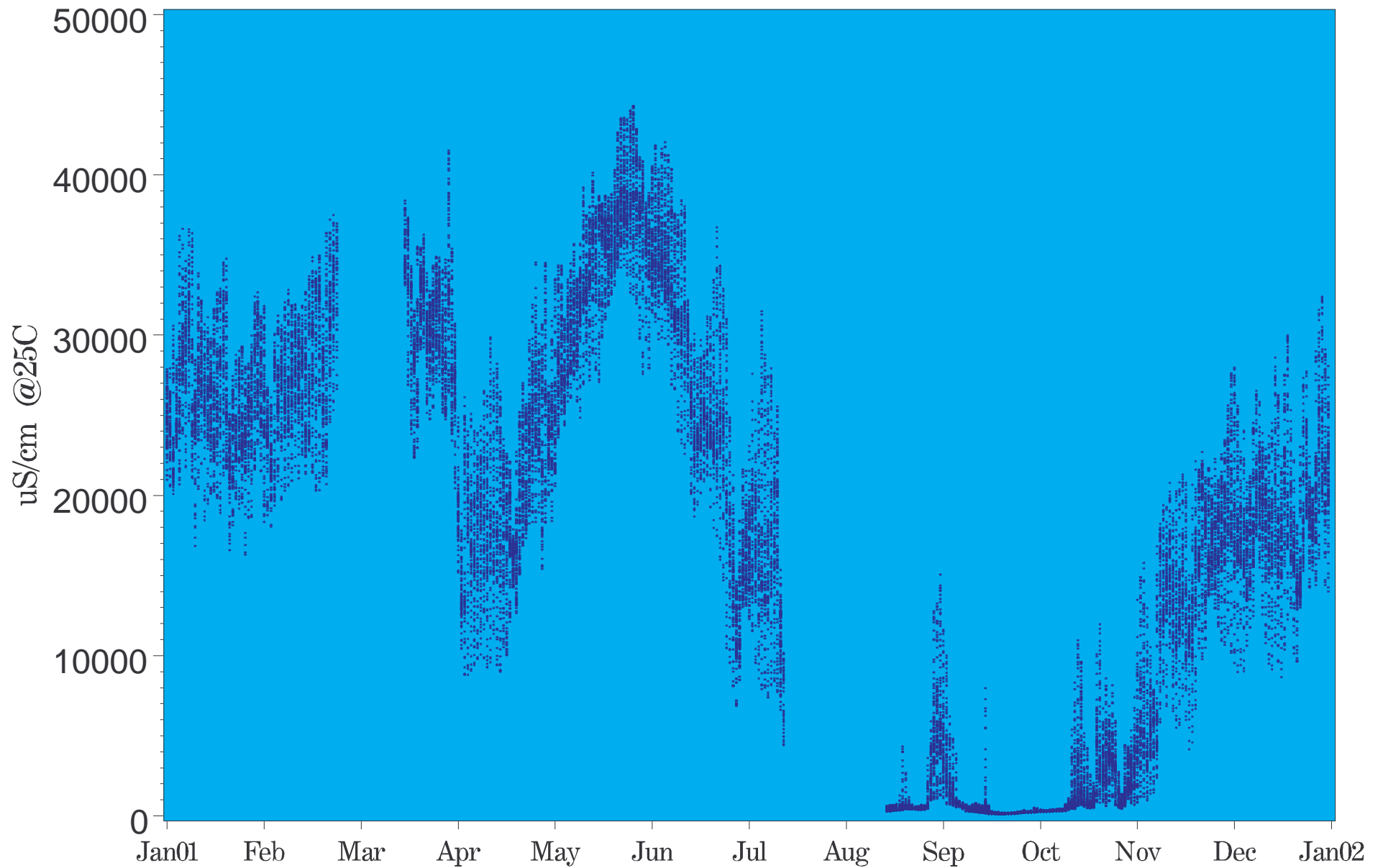


Figure 5.2 Surface conductivity (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

Peace River at Harbour Heights - Bottom Conductivity

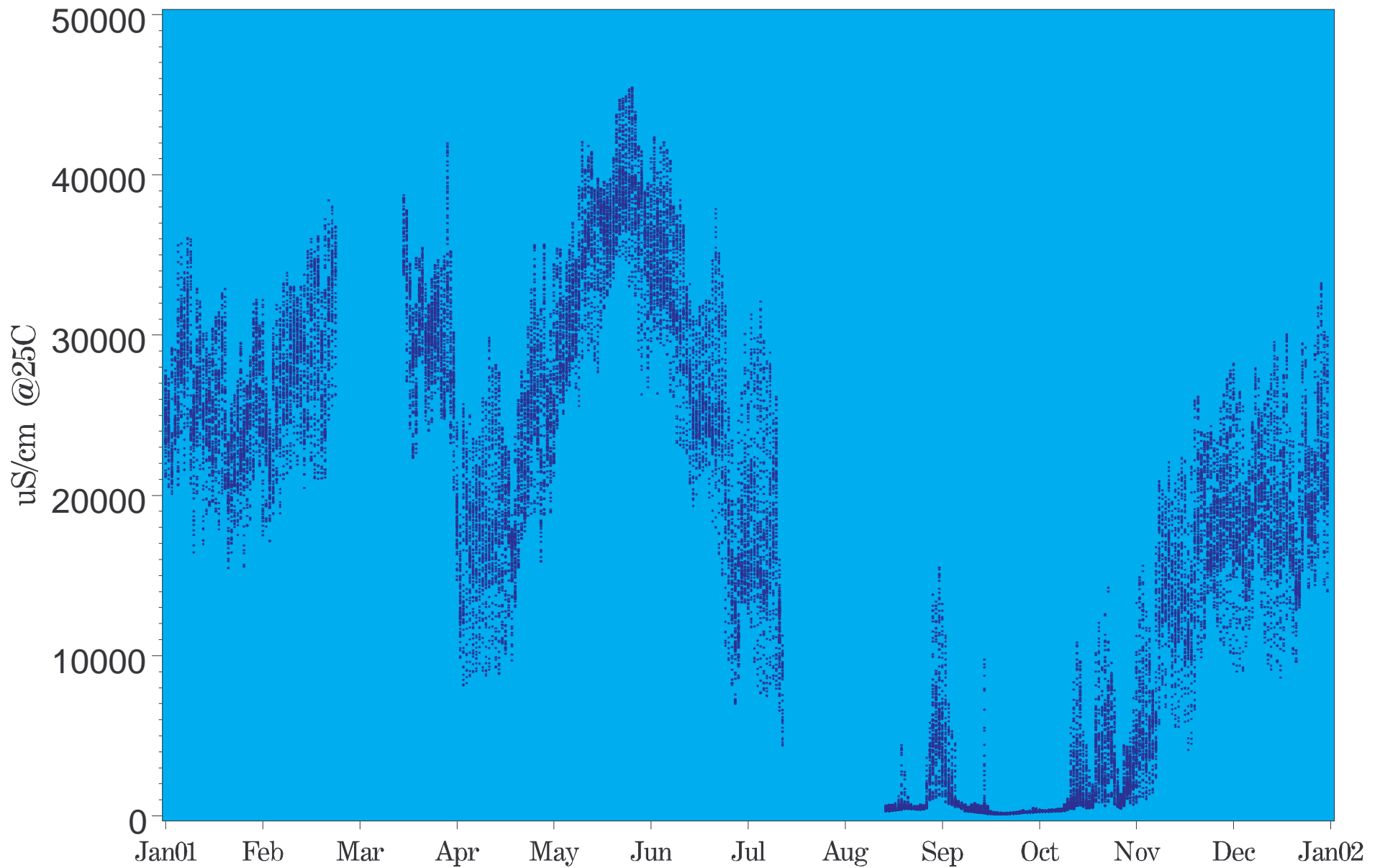


Figure 5.3 Bottom conductivity (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

Peace River at Harbour Heights - Surface Temperature

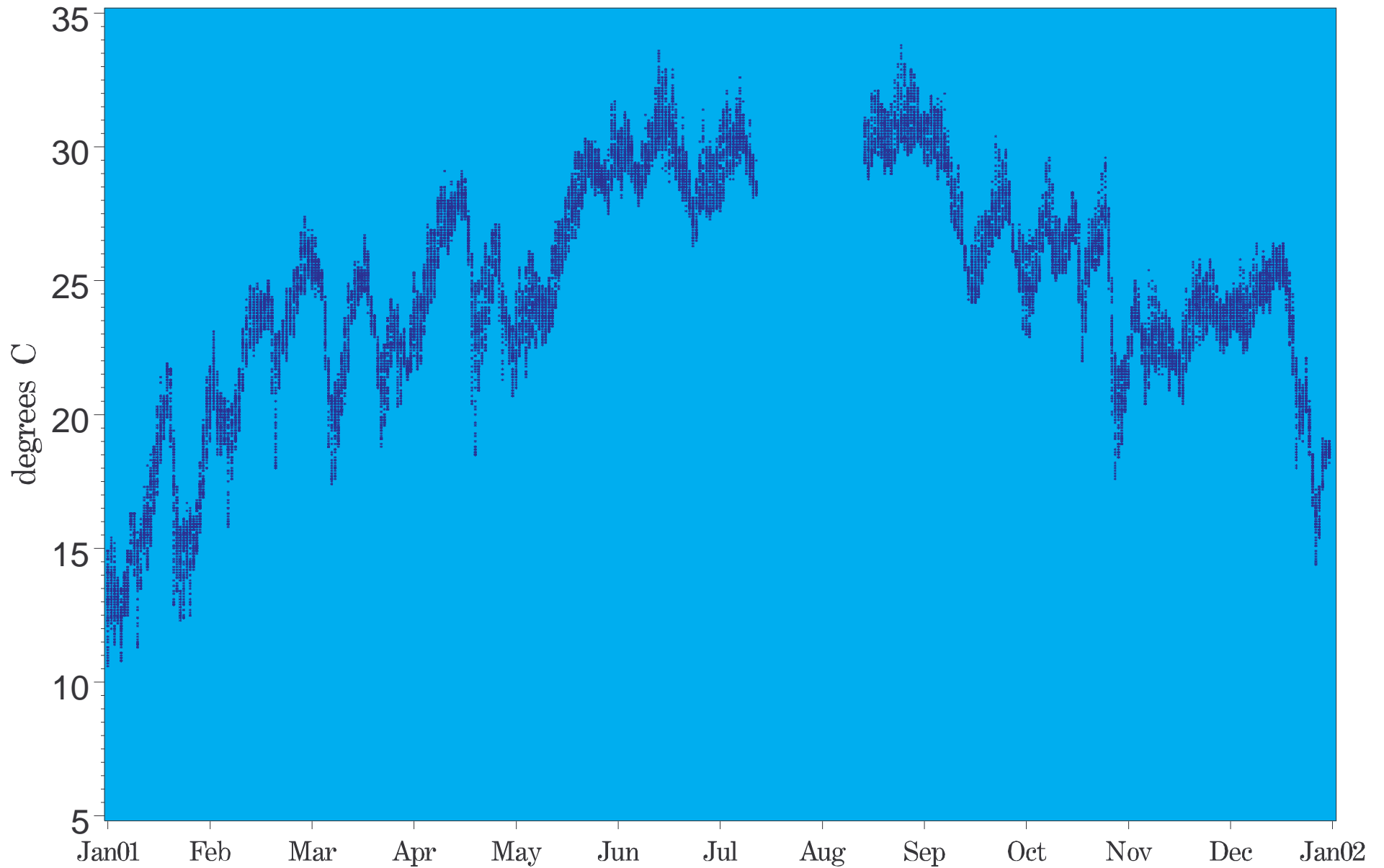


Figure 5.4 Surface temperature (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

Peace River at Harbour Heights - Bottom Temperature

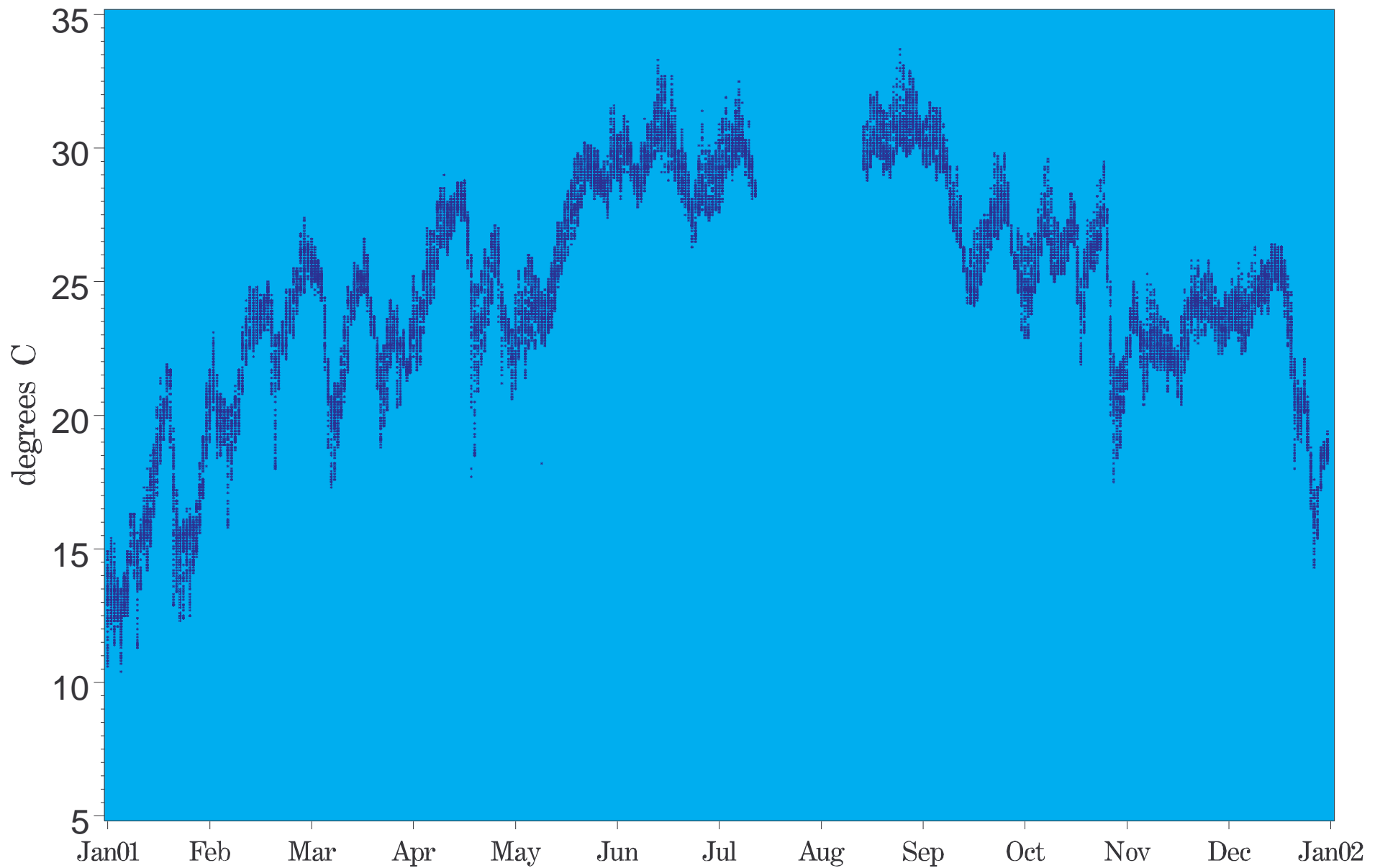


Figure 5.5 Bottom temperature (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

Peace River at Peace River Heights - Gage Height

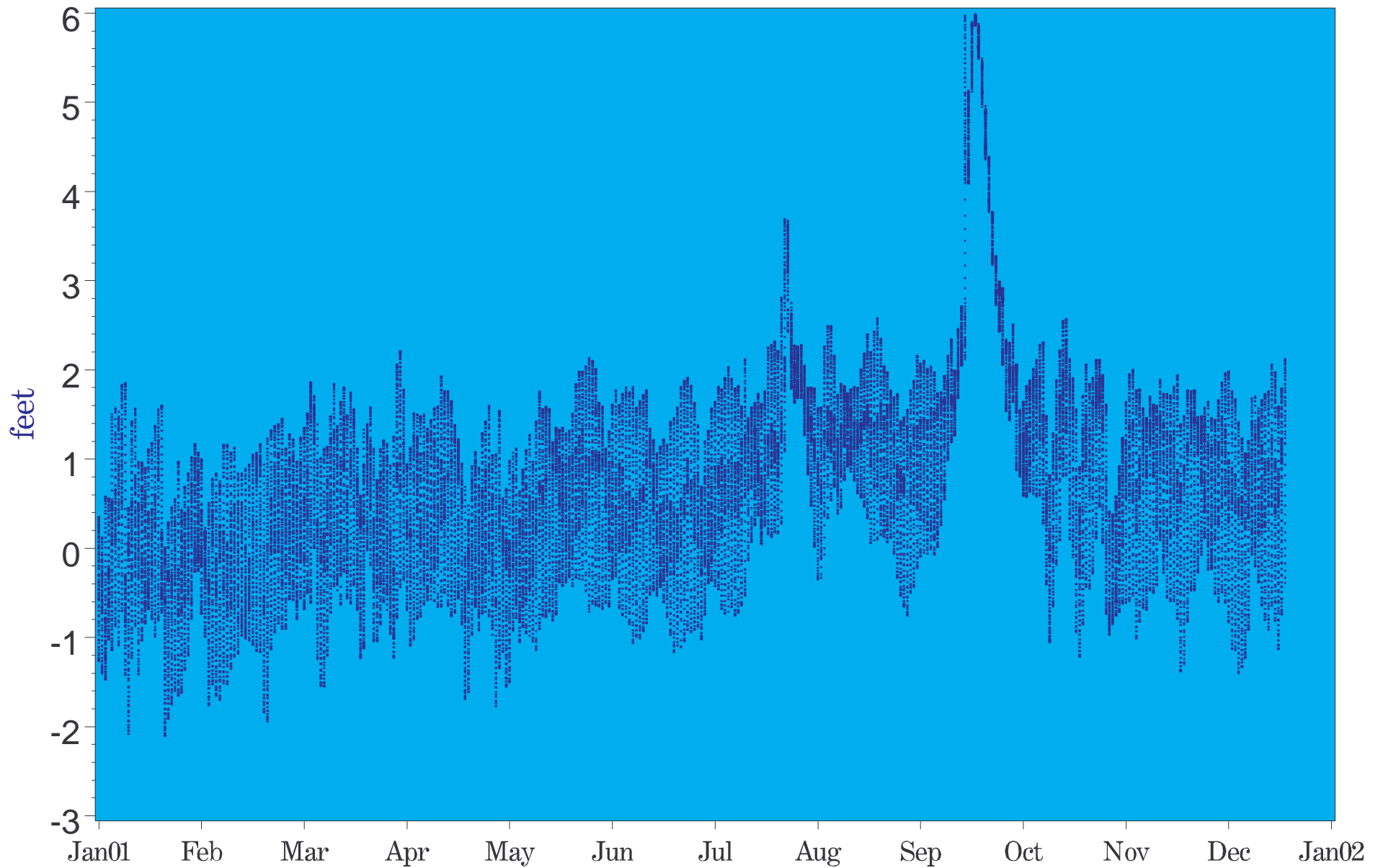


Figure 5.6 Gage height (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

Peace River at Peace River Heights - Surface Conductivity

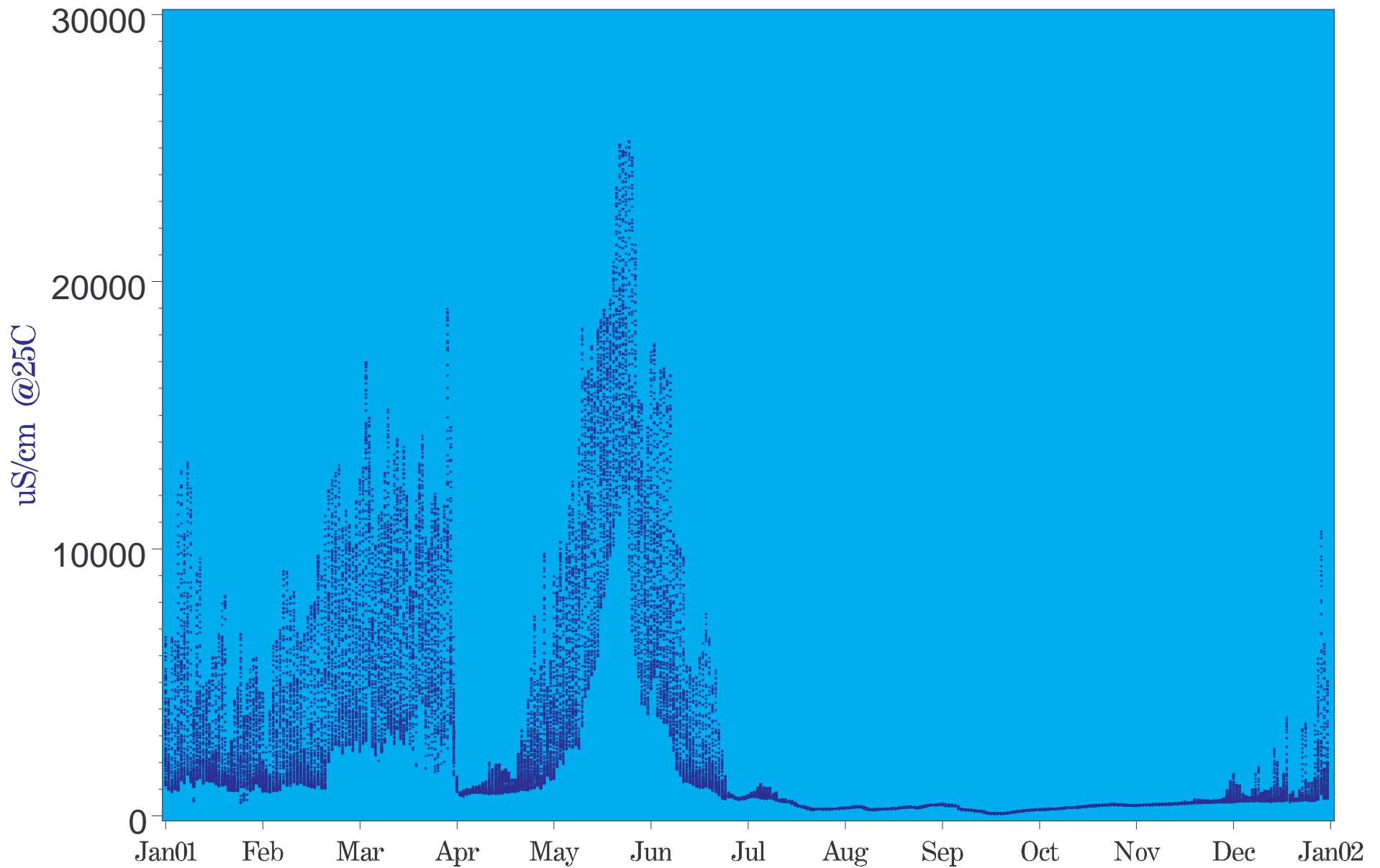


Figure 5.7 Surface conductivity (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

Peace River at Peace River Heights - Bottom Conductivity

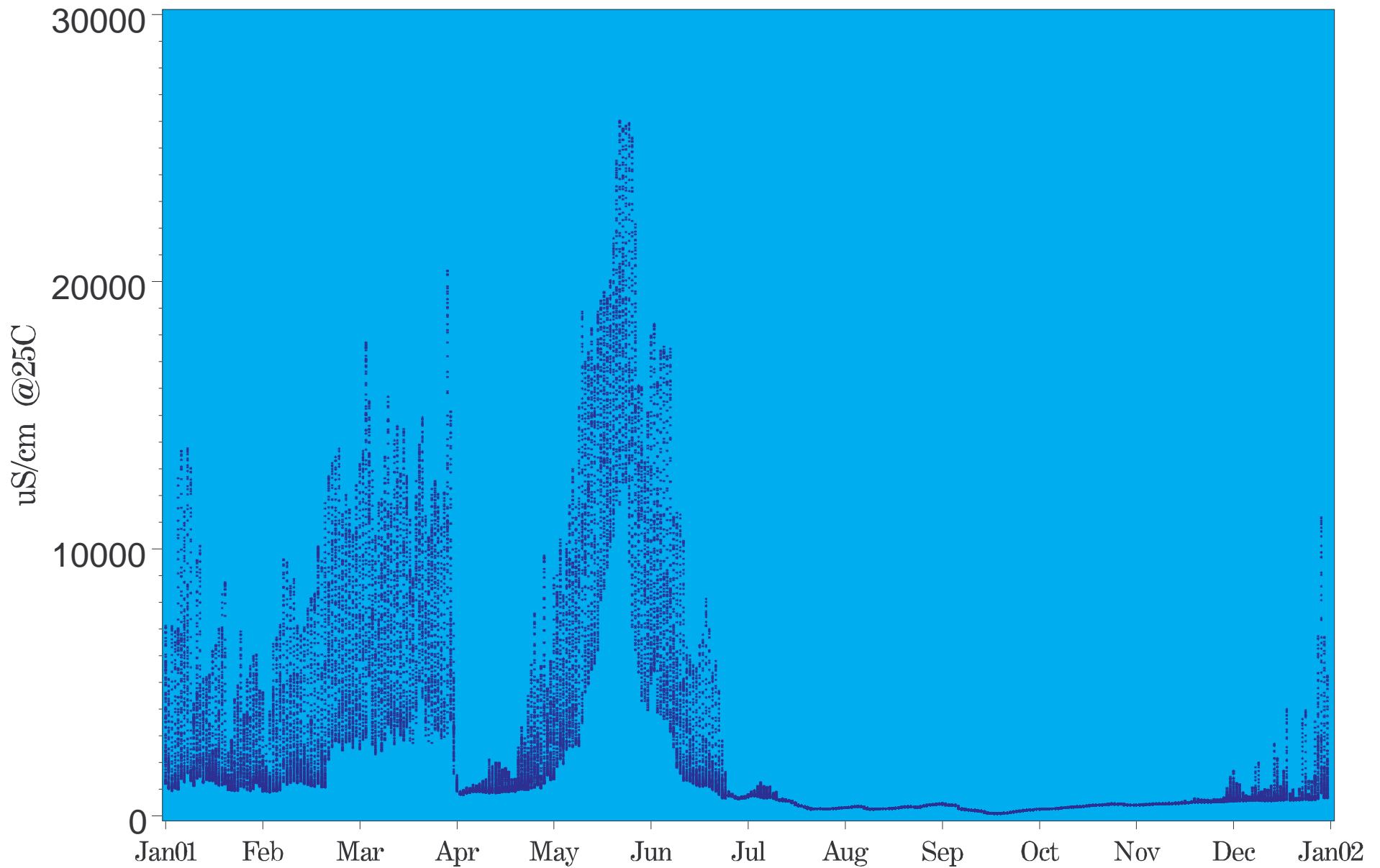


Figure 5.8 Bottom conductivity (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

Peace River at Peace River Heights - Surface Temperature

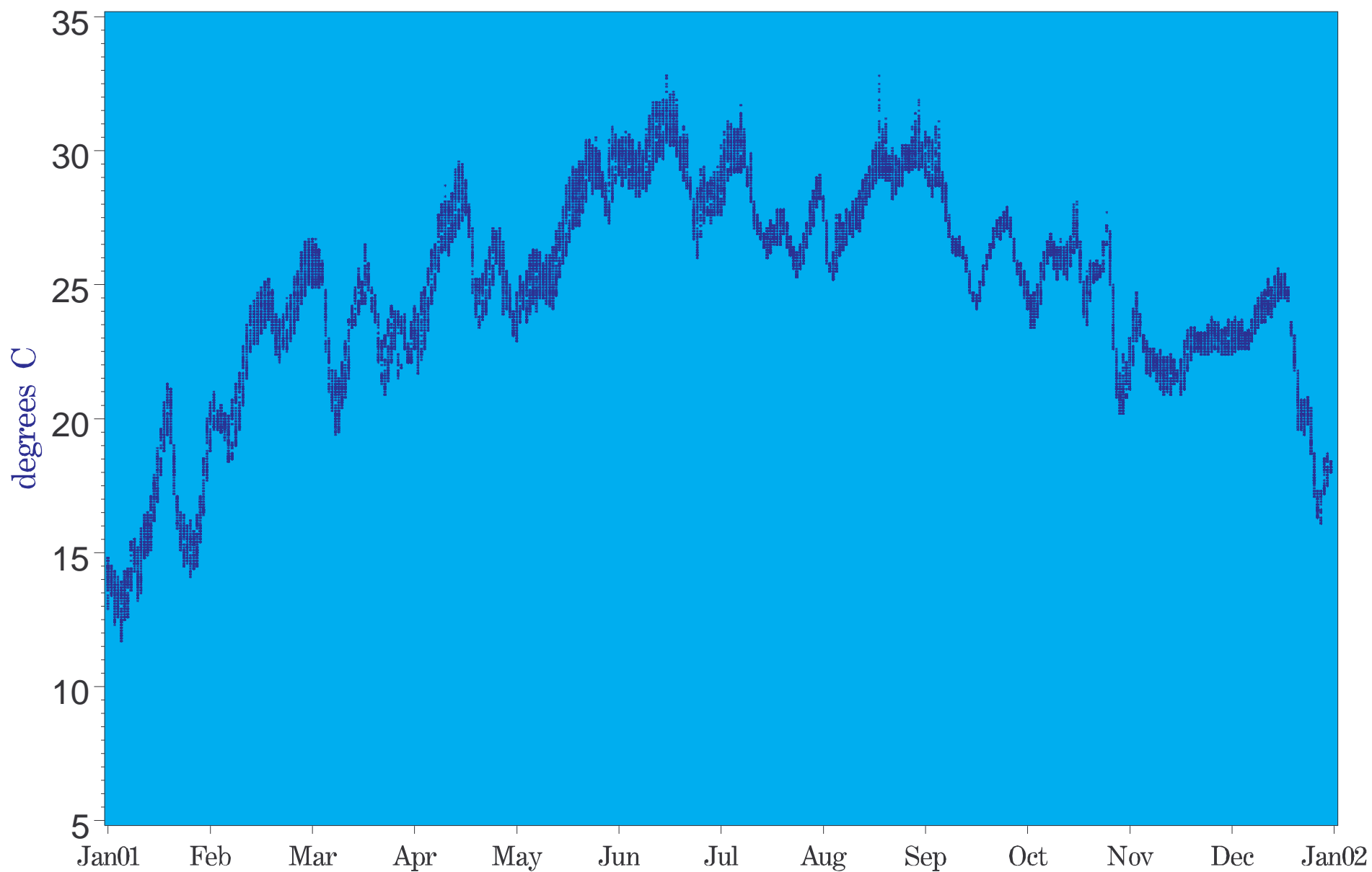


Figure 5.9 Surface temperature (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

Peace River at Peace River Heights - Bottom Temperature

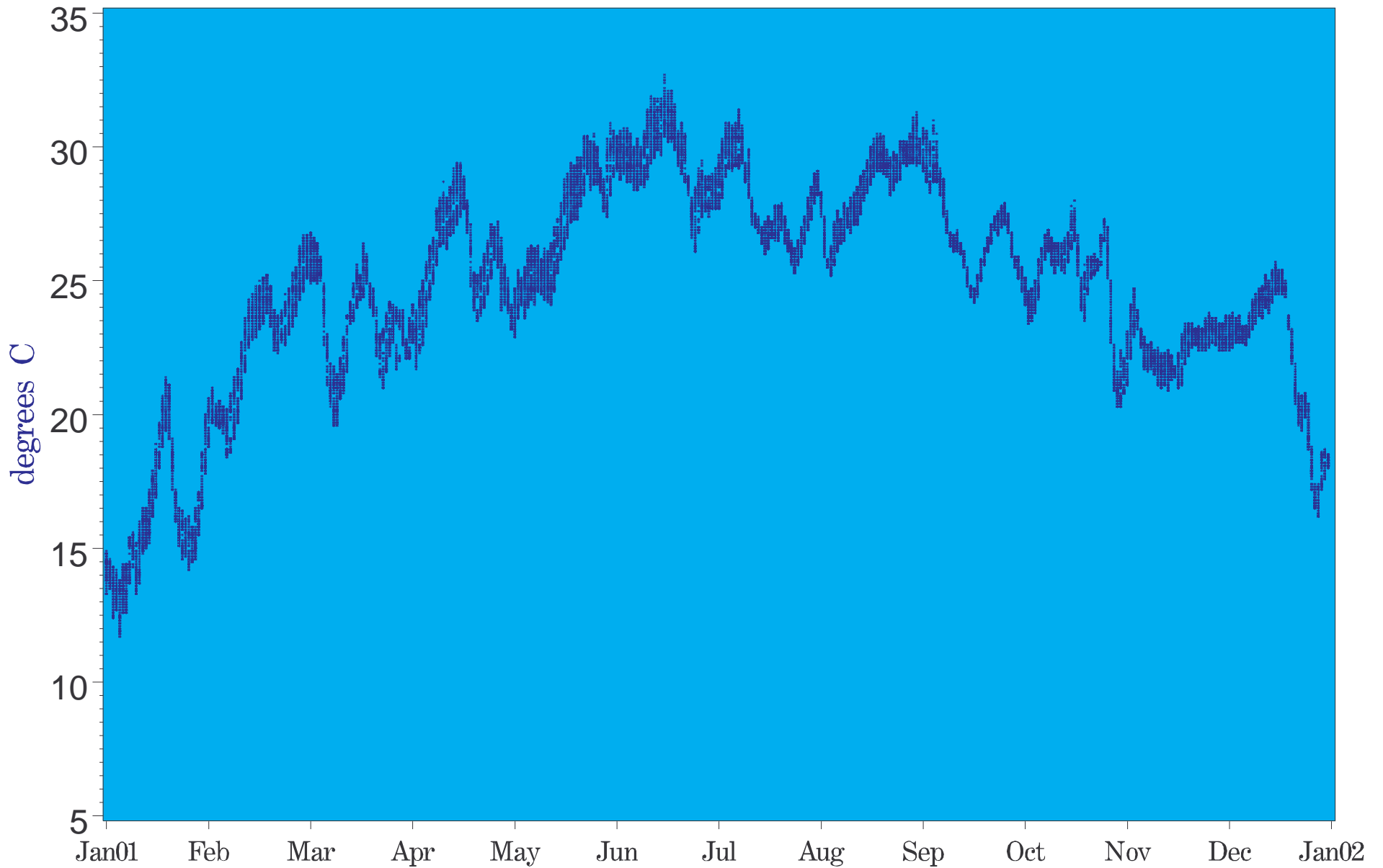


Figure 5.10 Bottom temperature (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

Boca Grande Gage Height

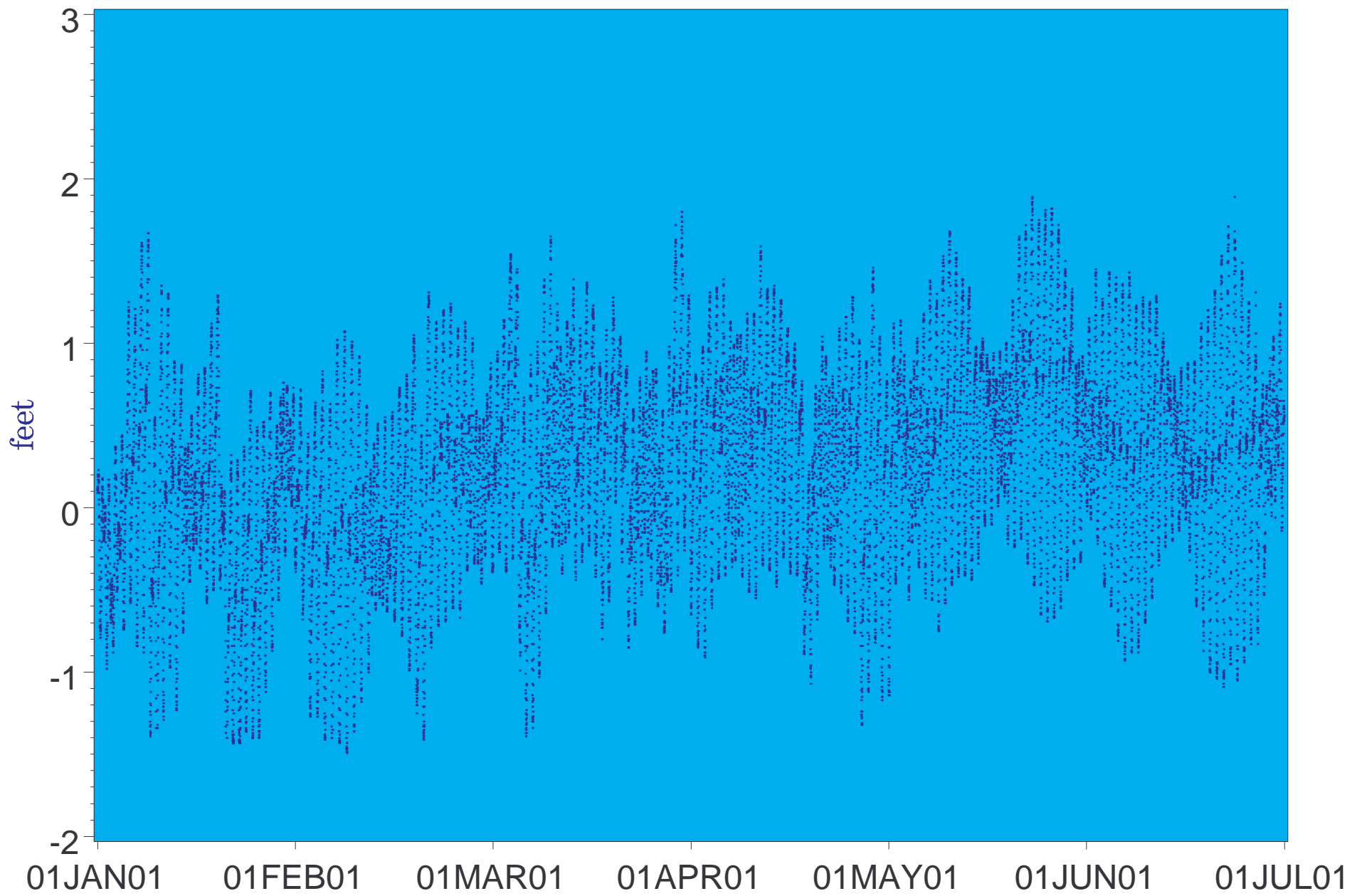


Figure 5.11a Gage Height (15-minute intervals) for Boca Grande.

Boca Grande Gage Height

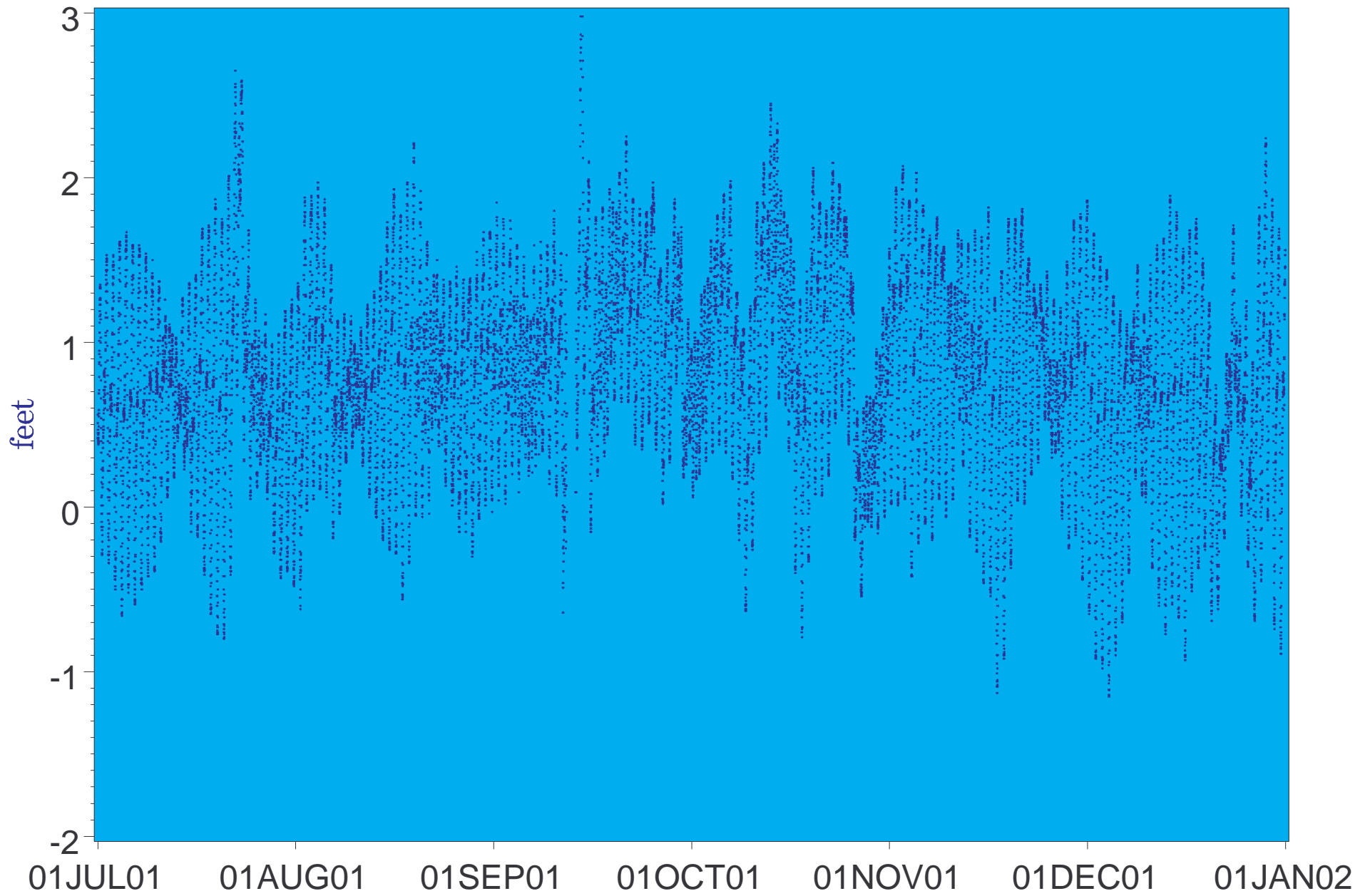


Figure 5.11b Gage Height (15-minute intervals) for Boca Grande.

Peace River at Harbour Heights Gage Height and Surface Conductivity - May

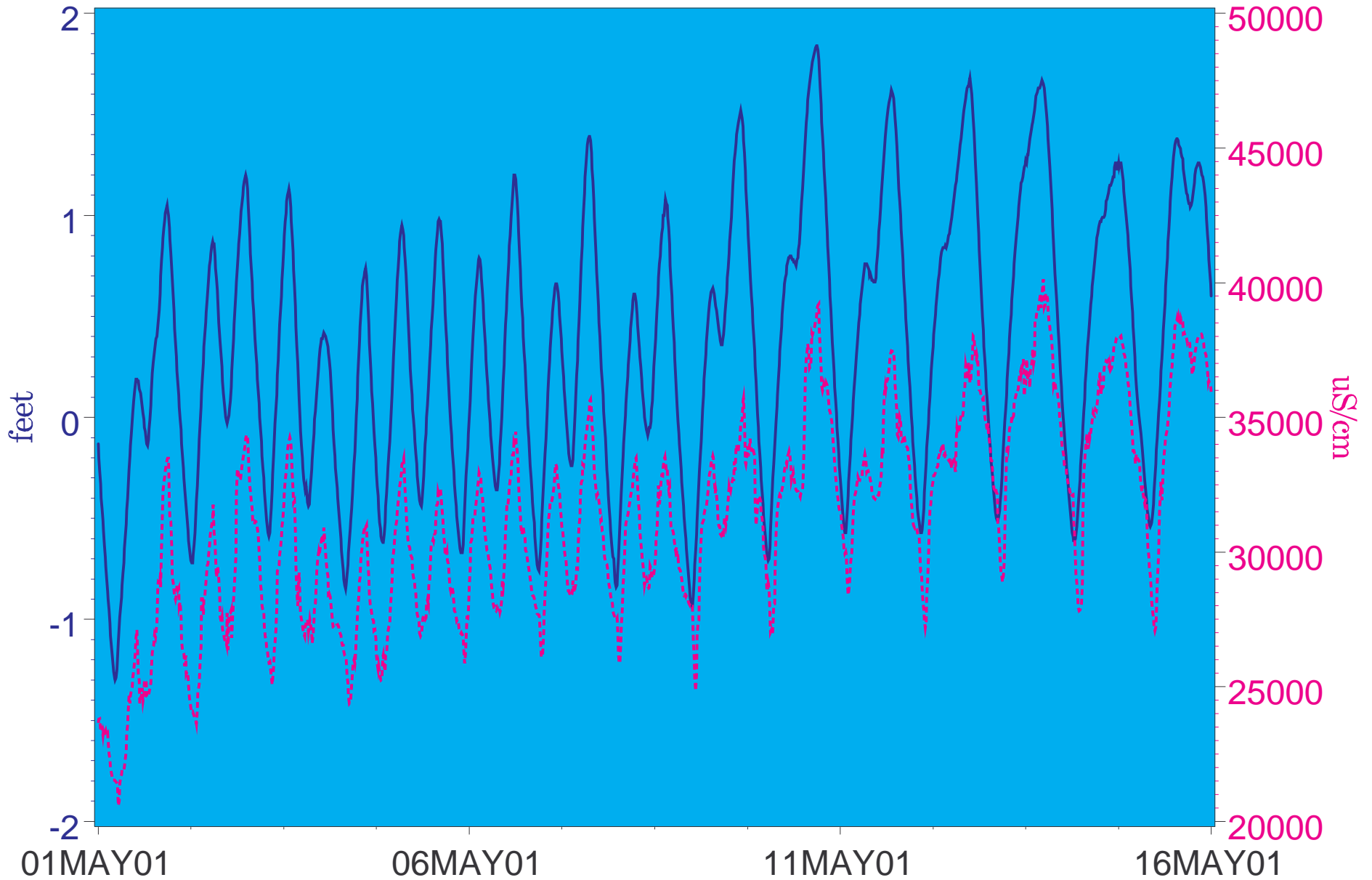


Figure 5.12 Surface Conductivity in May- USGS Gage 02297460 (River Kilometer 15.5)

Peace River at Harbour Heights Gage Height and Bottom Conductivity - May

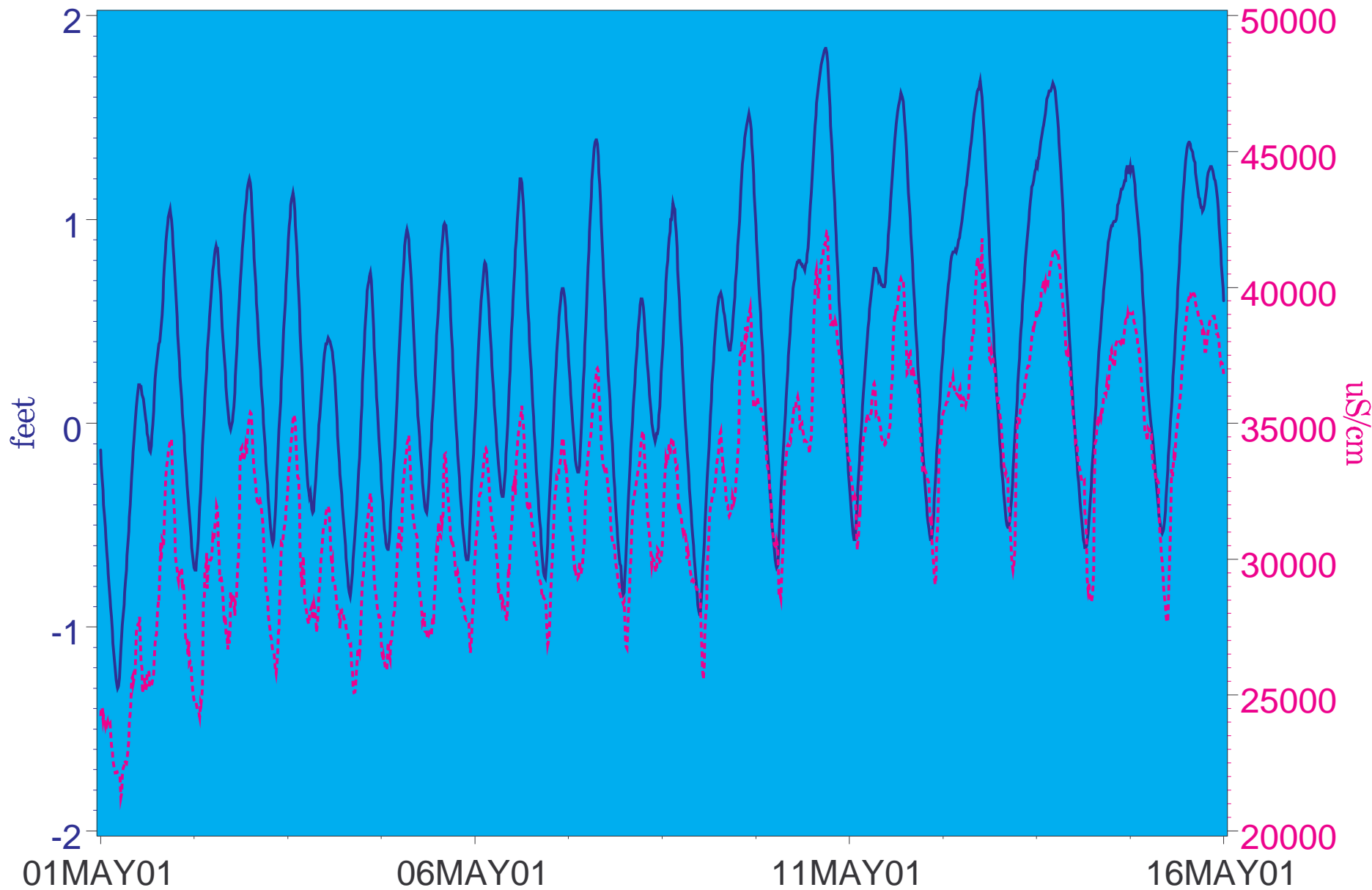


Figure 5.13 Bottom Conductivity in May - USGS Gage 02297460 (River Kilometer 15.5)

Peace River at Harbour Heights Bottom & Surface Conductivity - May

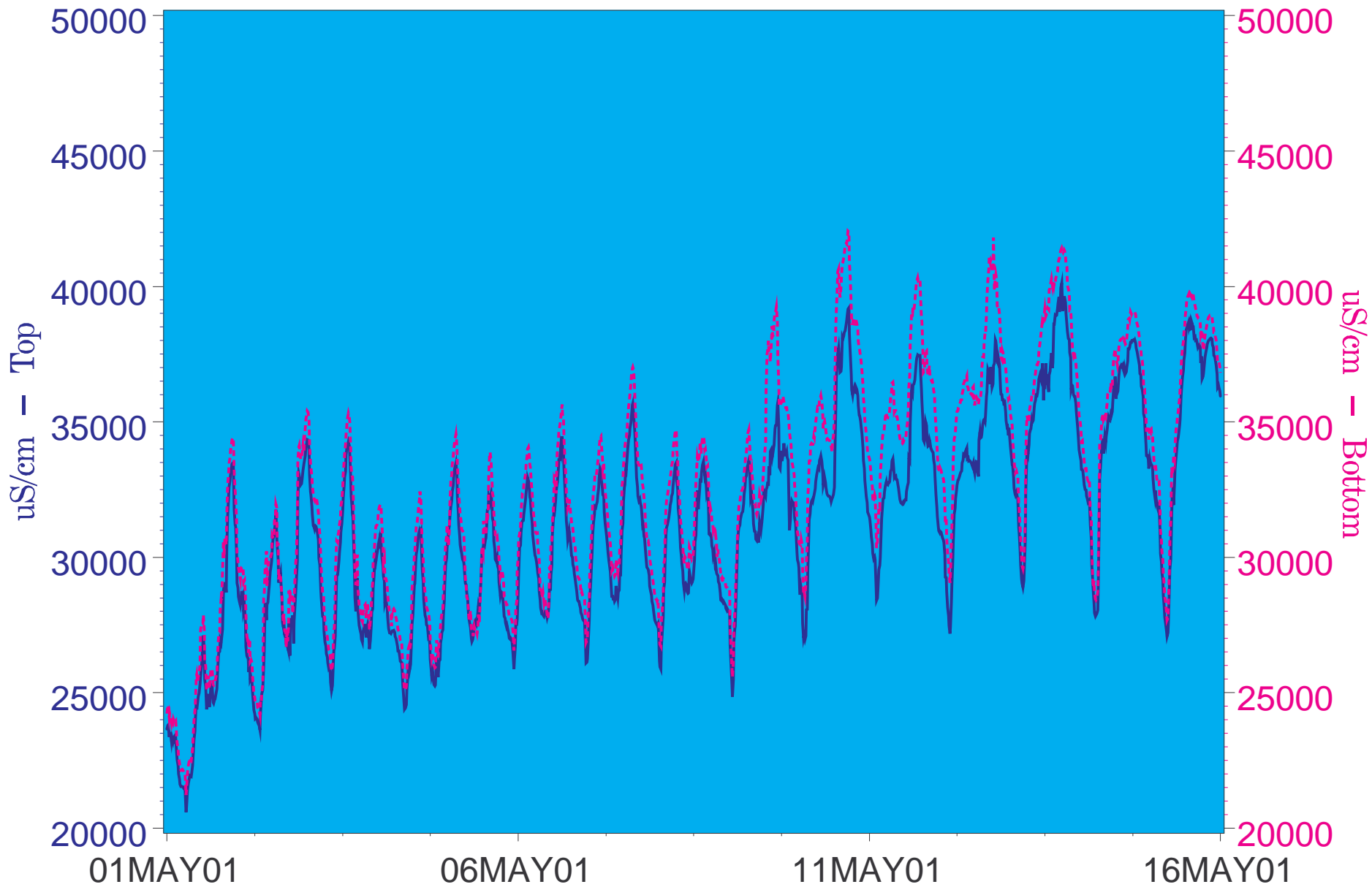


Figure 5.14 Surface & Bottom Conductivity in May - USGS Gage 02297460 (River Kilometer 15.5)

Peace River at Harbour Heights Gage Height and Surface Conductivity - September

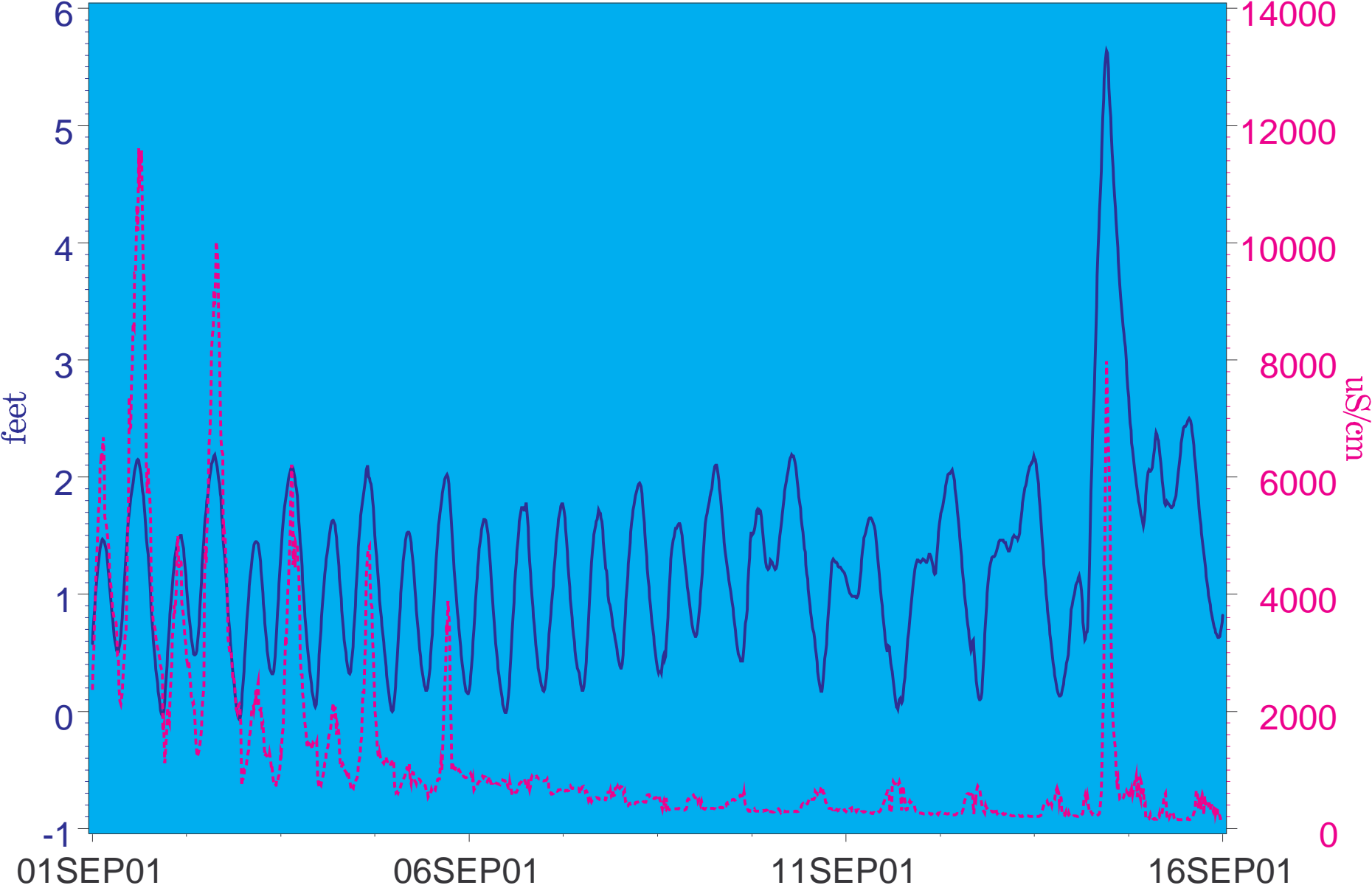


Figure 5.15 Surface Conductivity in September - USGS Gage 02297460 (River Kilometer 15.5)

Peace River at Harbour Heights Gage Height and Bottom Conductivity - September

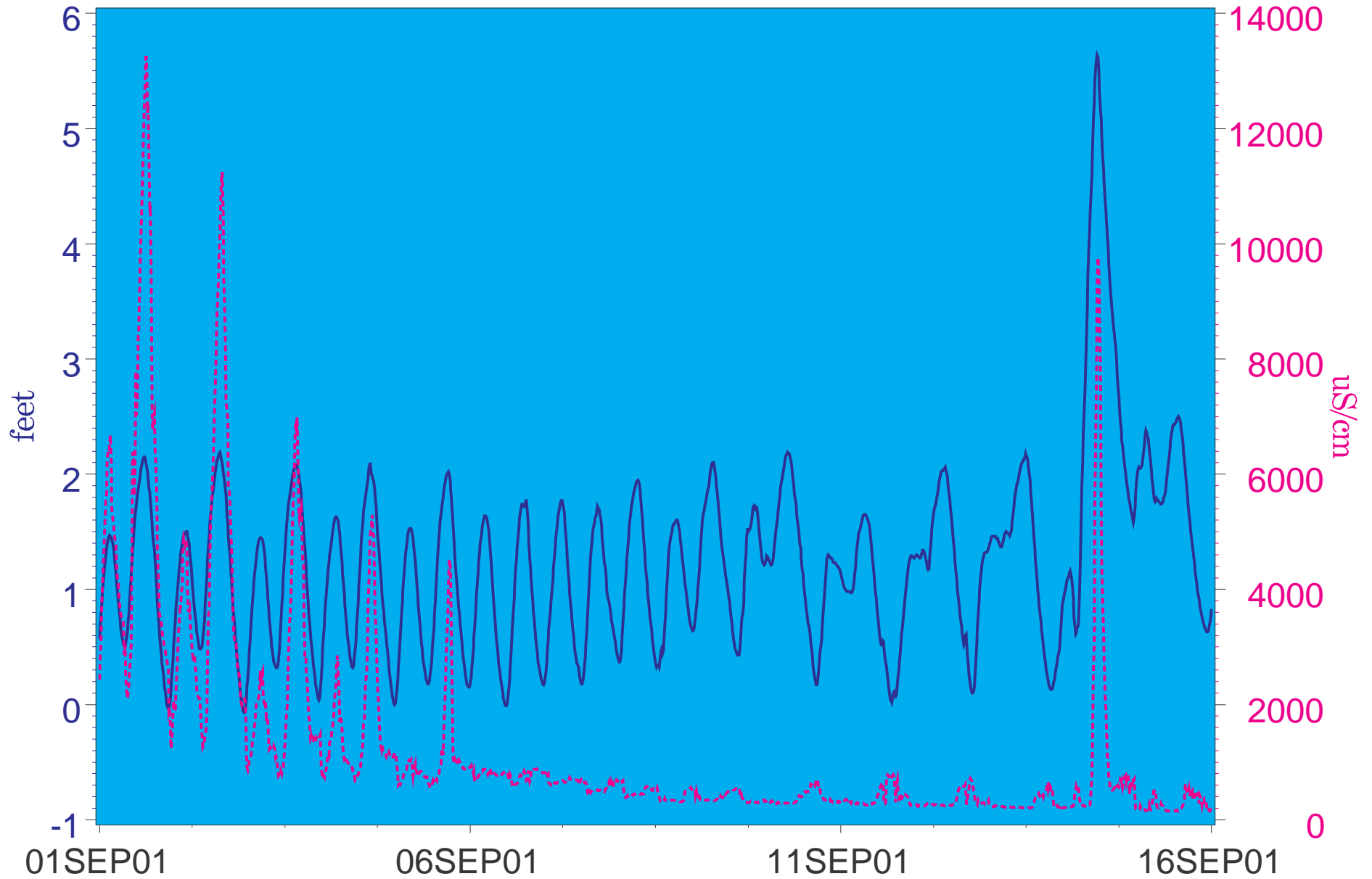


Figure 5.16 Bottom Conductivity in September - USGS Gage 02297460 (River Kilometer 15.5)

Peace River at Harbour Heights Bottom & Surface Conductivity - September

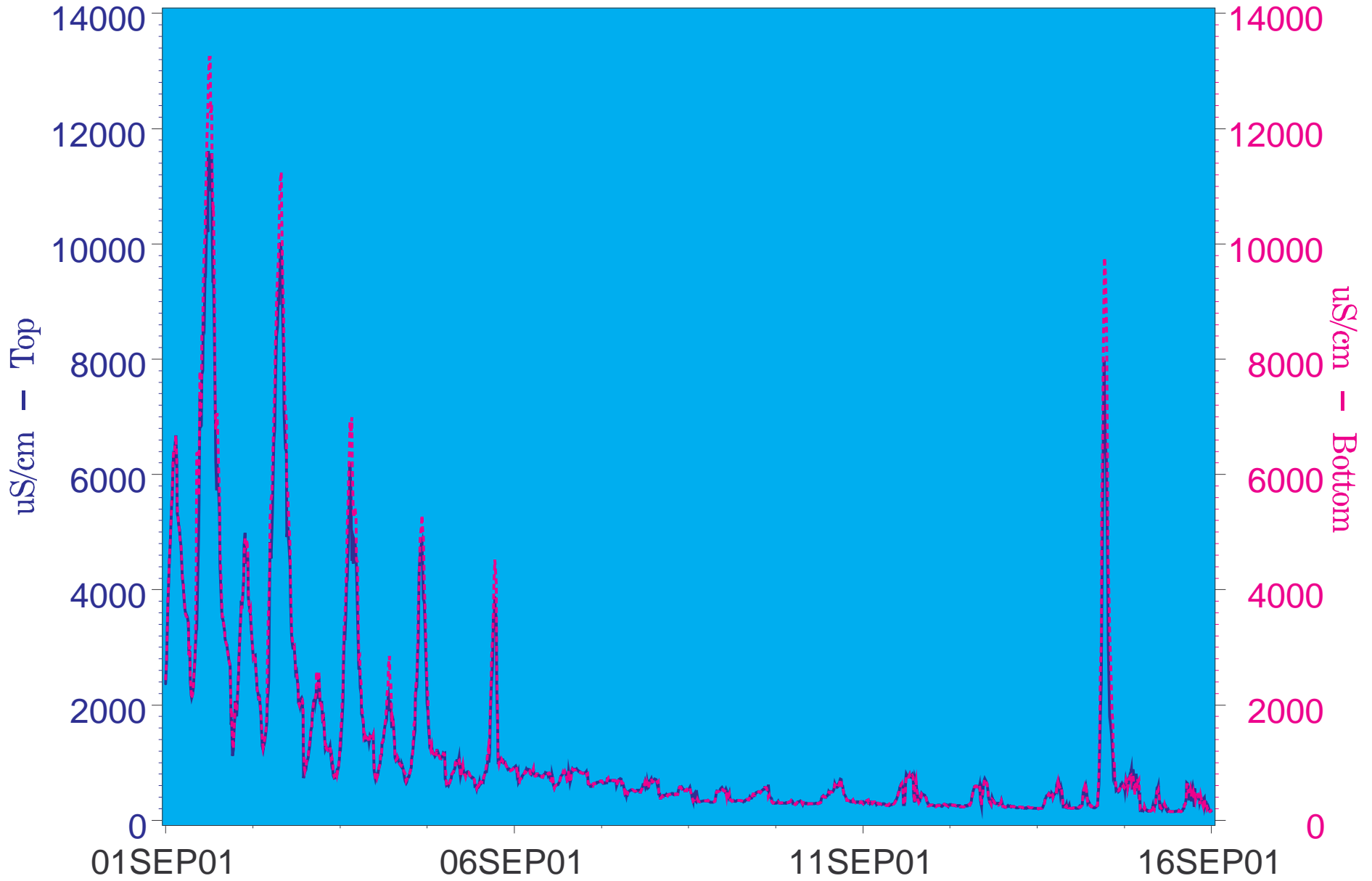


Figure 5.17 Surface & Bottom Conductivity in September - USGS Gage 02297460 RK 15.5)

Peace River at Peace River Heights Gage Height and Surface Conductivity - May

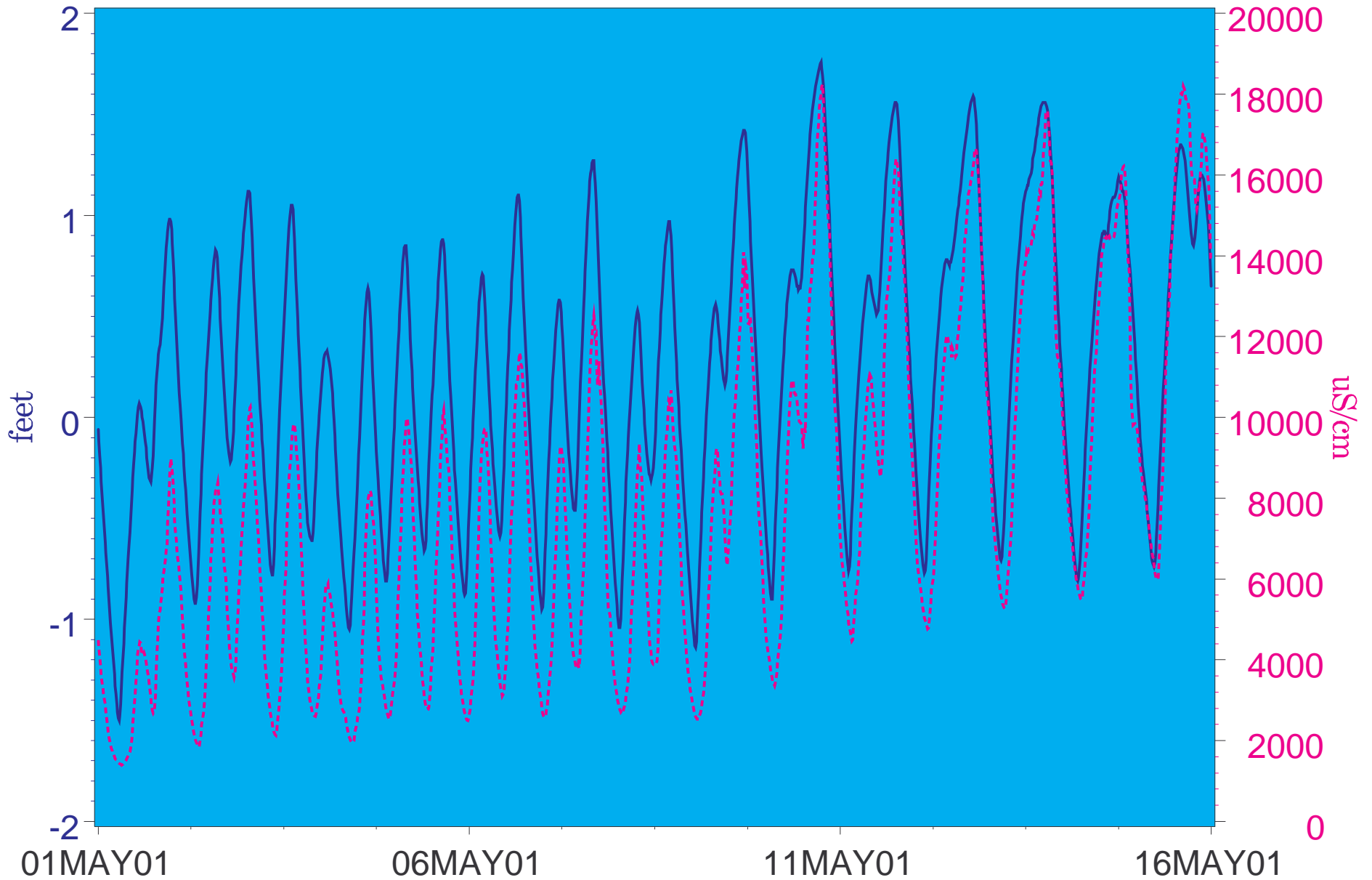


Figure 5.18 Surface Conductivity in May - USGS Gage 02297350 (River Kilometer 26.7)

Peace River at Peace River Heights Gage Height and Bottom Conductivity - May

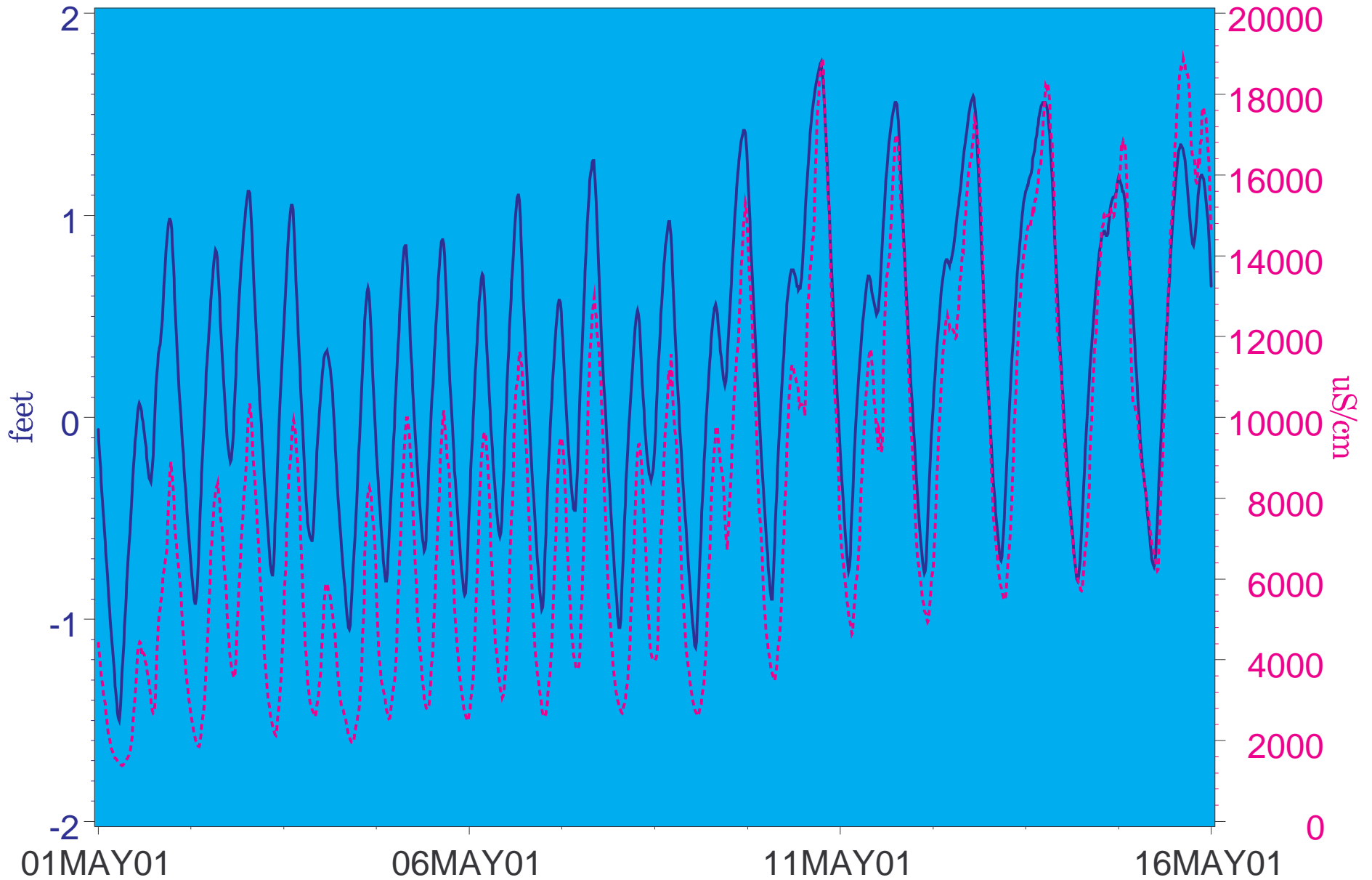


Figure 5.19 Bottom Conductivity in May - USGS Gage 02297350 (River Kilometer 26.7)

Peace River at Peace River Heights Bottom & Surface Conductivity - May

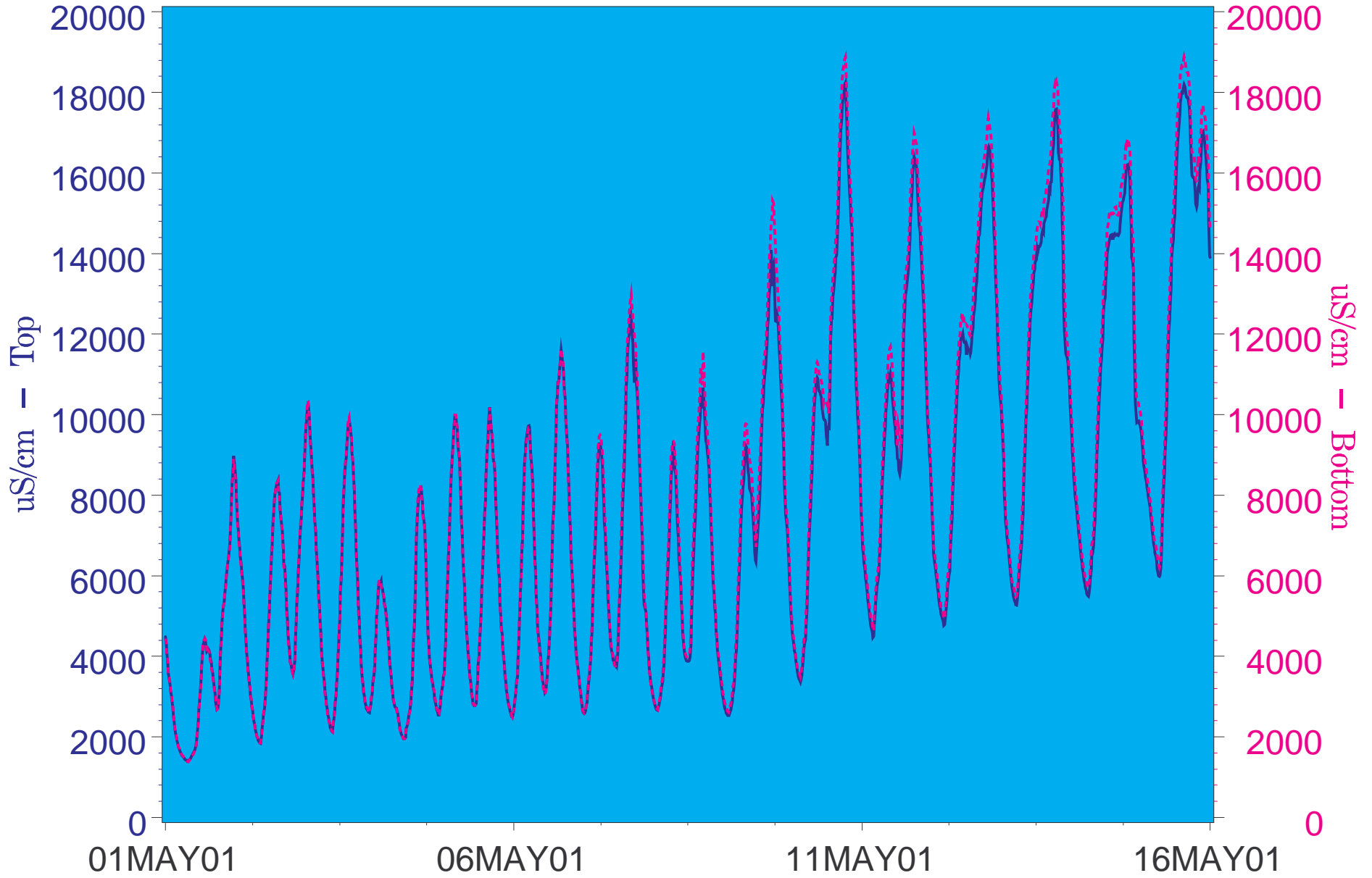


Figure 5.20 Surface & Bottom Conductivity in May - USGS Gage 02297350 (RK 26.7)

Peace River at Peace River Heights
Gage Height and Surface Conductivity - September

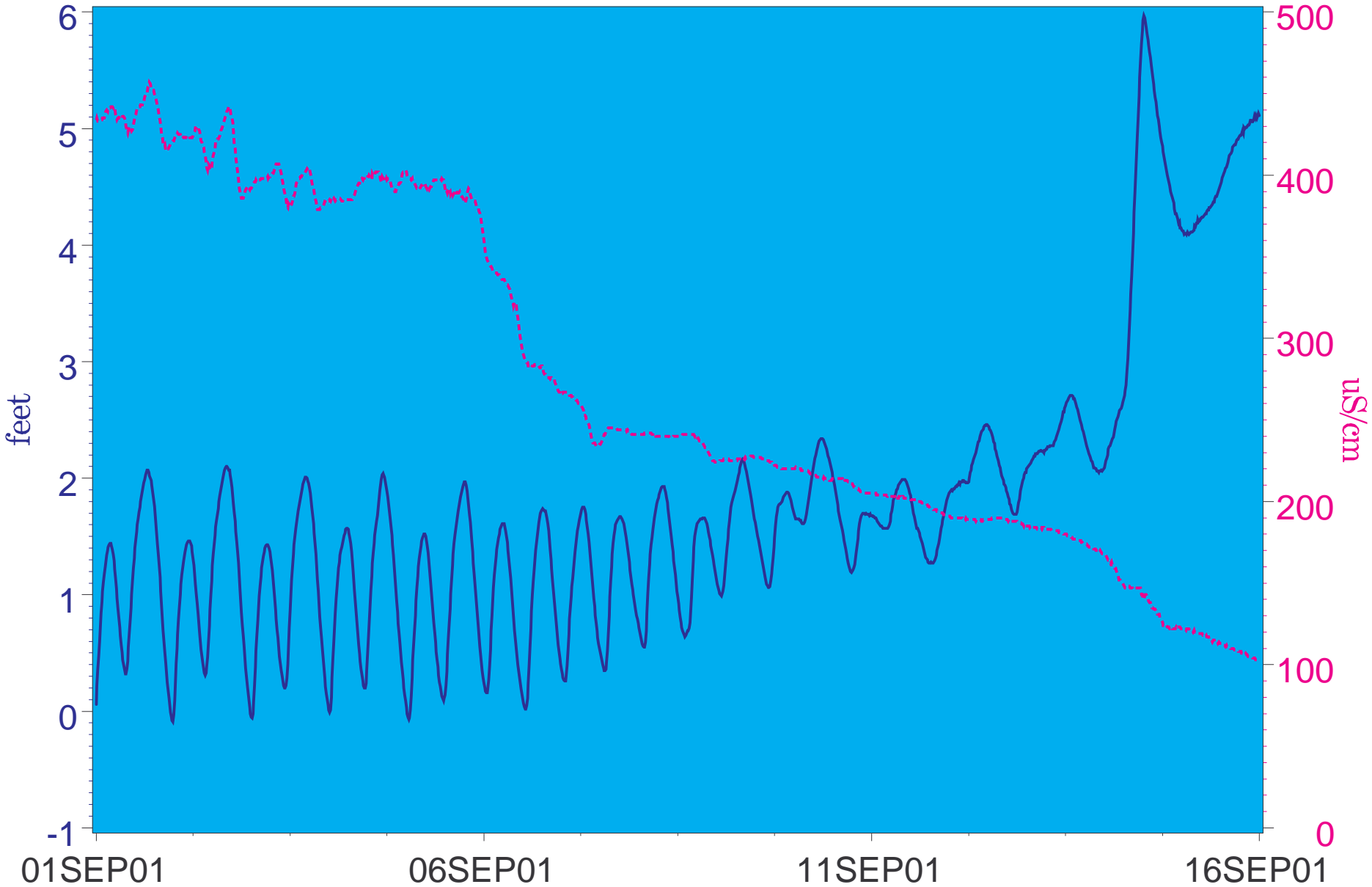


Figure 5.21 Surface Conductivity in September- USGS Gage 02297350 (River Kilometer 26.7)

Peace River at Peace River Heights
Gage Height and Bottom Conductivity - September

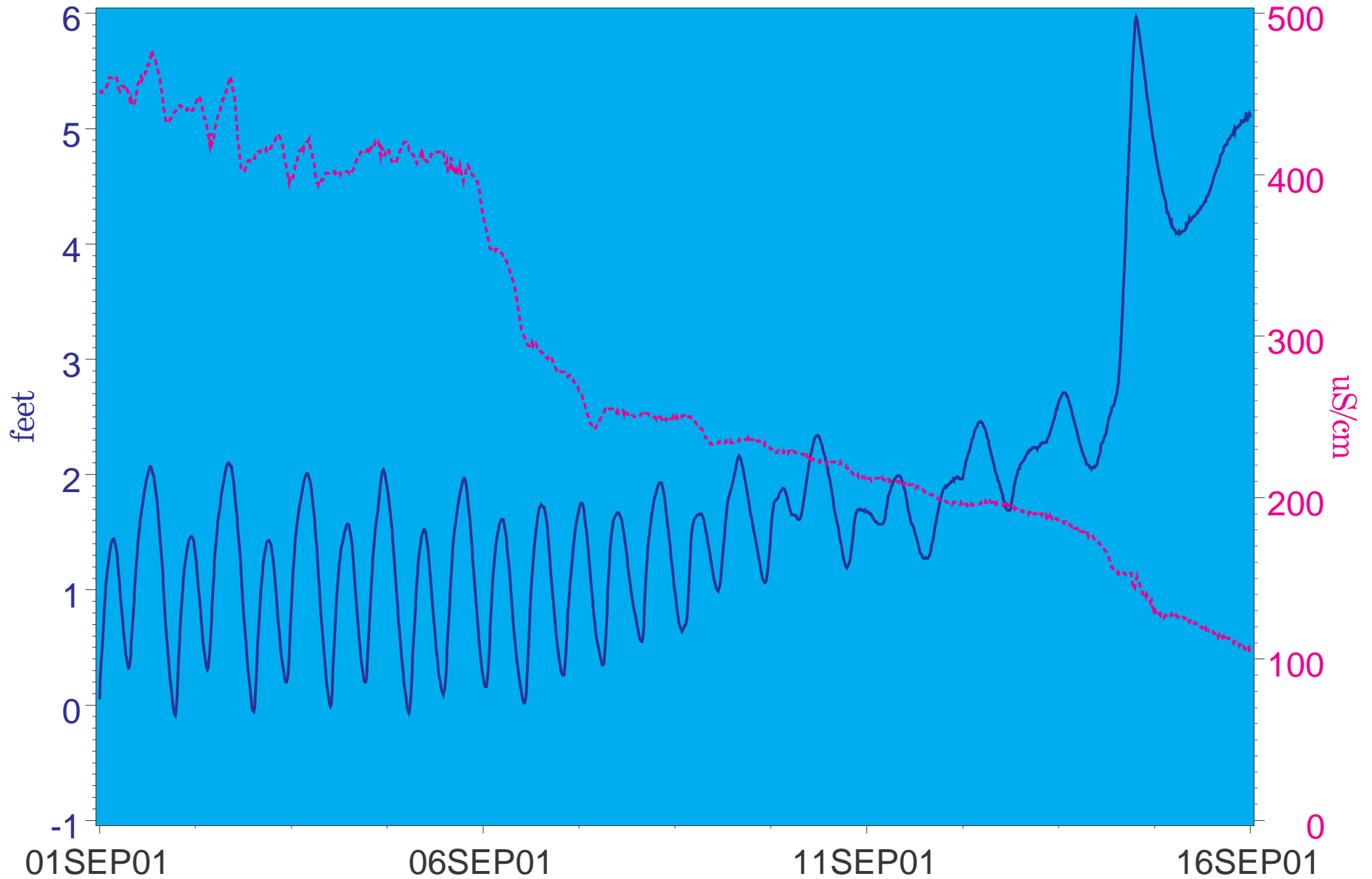


Figure 5.22 Bottom Conductivity in September - USGS Gage 02297350 (River Kilometer 26.7)

Peace River at Peace River Heights
Bottom & Surface Conductivity - September

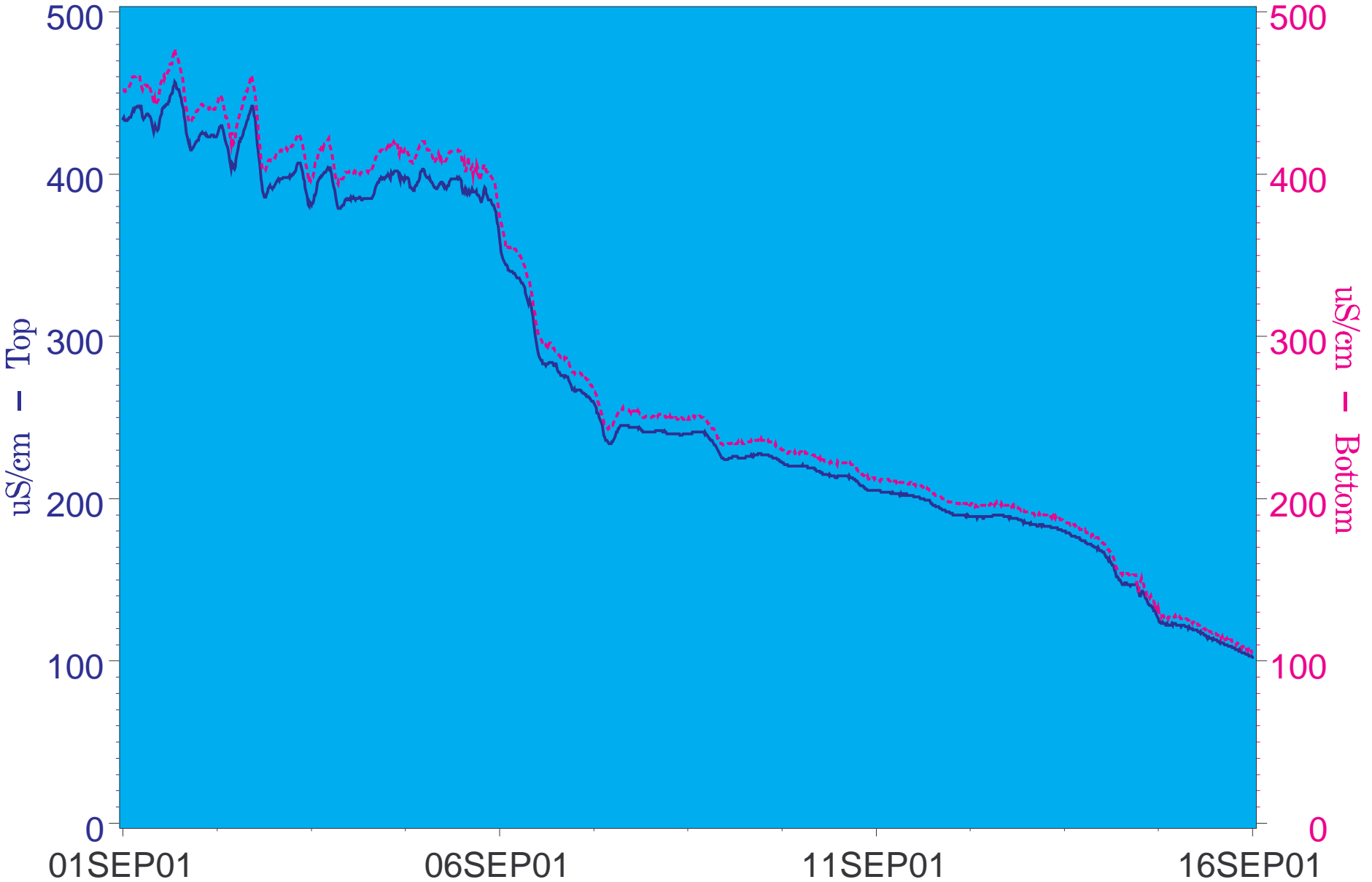


Figure 5.23 Surface & Bottom Conductivity in September - USGS Gage 02297350 (RK 26.7)



[Back to Start](#)

REFERENCES

American Public Health Association, 1992, Standard methods for the examination of water and wastewater (18th editions): American Public Health Association, Washington, D.C.

Britton, L.J., and Greeson, P.E., eds., 1989, Methods for collection and analysis of aquatic biological and microbiological samples: U.S. Geological Survey Techniques of Water_Resources Investigations, Book 5, Chapter A4, 363 p.

Fishman, M.J., and Friedman, L.C., eds., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water_Resources Investigations, Book 5, Chap. A1, 545 p.

Friedman, L.C., and Erdmann, D.E., 1982, Quality assurance practices for the chemical and biological analyses of water and fluvial sediments: U.S. Geological Survey Techniques of Water_Resources Investigations, Book 5, Chap. A6, 181 p.

Horowitz, A.J., Demas, C.R., Fitzgerald, K.K., Miller, T.L., and Rickert, D.A., 1994, U.S. Geological Survey protocol for the collection and processing of surface_water samples for the subsequent determination of inorganic constituents in filtered water: U.S. Geological Survey Open_File Report 94_539, 57 p.

Rantz and others, 1982a, Measurement and computation of streamflow: Volume 1. Measurement of stage and discharge: U.S. Geological Survey Water_Supply Paper 2175, p. 1_284.

_____, 1982b, Measurement and computation of streamflow: Volume 2. Computation of discharge: U.S. Geological Survey Water_Supply Paper 2175, p. 285_631.

Stanley, D.L., 1995, Standard procedures and quality_control practices for the U.S. Geological Survey National Field Quality Assurance program from 1982 through 1993: U.S. Geological Survey Open_File Report 95_317, 75 p.

Stanley, D.L., Shampine, W.J., and Schroder, L.J., 1992, Summary of the U.S. Geological Survey National Field Quality Assurance program from 1979 through 1989: U.S. Geological Survey Open_File Report 92_163, 14p.

Wershaw, R.L., Fishman, M.J., Grabbe, R.R., and Lowe, L.E., 1987, Methods for the determination of organic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water_Resources Investigations, Book 5, Chapter A3, 80 p.

Ward, J.R., and Harr, C.A., eds., 1990, Methods for collection and processing of surface_water and bed_material samples for physical and chemical analyses: U.S. Geological Survey Open_File Report 90_140, 71 p.



[Back to Start](#)



[Back to Start](#)

APPENDICES

- APPENDIX A** Summary of *In Situ* Physical Water Column Data Collected at “Moving” Isohaline Stations
- APPENDIX B** Complete Analysis of Light Profiles “Moving” Isohaline Stations
- APPENDIX C** Summary of Surface Water Chemistry Data Collected in conjunction with “Moving” Isohaline Stations
- APPENDIX D** Phytoplankton Taxonomy Summary Results of Monthly Sampling
- APPENDIX E** Summary of *In Situ* Physical Water Column Data Collected at “Fixed” Sampling Locations
- APPENDIX F** Complete Analysis of Light Profiles “Fixed” Sampling Stations
- APPENDIX G** Summary of Water Chemistry Data Collected in Conjunction with “Fixed” Isohaline Stations
- APPENDIX H** Flows & Withdrawals
- APPENDIX I** USGS Daily Gage Data
- 1) Water Level – Boca Grande, Harbour Heights, Peace River Heights
 - 2) Conductivity - Harbour Heights, Peace River Heights
 - 3) Temperature - Harbour Heights, Peace River Heights



[Back to Start](#)

APPENDIX A

Summary of *In Situ* Physical Water Column Data Collected at “Moving” Isohaline Stations

----- Month=January STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	January	4	#18	30.4	0.2	12.6	10.5	7.7	908.0	0.5
2001	January	4	#18	30.4	0.5	12.6	10.1	7.7	913.0	0.5
2001	January	4	#18	30.4	1.0	12.4	10.0	7.7	918.0	0.5
2001	January	4	#18	30.4	1.5	12.3	9.9	7.6	918.0	0.5
2001	January	4	#18	30.4	2.0	12.2	10.0	7.6	919.0	0.5
2001	January	4	#18	30.4	2.5	12.2	10.0	7.6	919.0	0.5
2001	January	4	#18	30.4	3.0	12.2	9.8	7.6	919.0	0.5

----- Month=January STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	January	4	0 o/oo	35.5	0.2	12.5	10.5	8.0	929.0	0.5
2001	January	4	0 o/oo	35.5	0.5	12.7	10.4	8.0	931.0	0.5
2001	January	4	0 o/oo	35.5	1.0	12.7	10.3	8.0	918.0	0.5
2001	January	4	0 o/oo	35.5	1.5	12.4	10.3	8.0	921.0	0.5
2001	January	4	0 o/oo	35.5	2.0	12.7	10.3	8.0	927.0	0.5
2001	January	4	0 o/oo	35.5	2.5	12.3	10.3	8.0	923.0	0.5
2001	January	4	0 o/oo	35.5	2.9	12.5	10.3	8.0	922.0	0.5

----- Month=January STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	January	4	6 o/oo	22.7	0.2	13.1	10.0	7.6	10750.0	6.2
2001	January	4	6 o/oo	22.7	0.5	13.1	10.0	7.6	11011.0	6.2
2001	January	4	6 o/oo	22.7	1.0	13.1	9.9	7.5	12505.0	7.3
2001	January	4	6 o/oo	22.7	1.5	13.3	9.7	7.5	13865.0	7.9
2001	January	4	6 o/oo	22.7	2.0	13.3	9.6	7.5	14057.0	8.1
2001	January	4	6 o/oo	22.7	2.5	13.4	9.5	7.5	14269.0	8.3

----- Month=January STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	January	4	12 o/oo	18.8	0.2	12.6	9.6	7.5	20760.0	12.5
2001	January	4	12 o/oo	18.8	0.5	12.6	9.5	7.5	21293.0	12.8
2001	January	4	12 o/oo	18.8	1.0	12.7	9.2	7.5	24530.0	14.7
2001	January	4	12 o/oo	18.8	1.5	13.2	8.9	7.5	27145.0	16.7
2001	January	4	12 o/oo	18.8	2.0	13.3	8.8	7.5	28297.0	17.3

----- Month=January STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	January	4	20 o/oo	12.0	0.2	11.7	9.2	7.5	32386.0	20.2
2001	January	4	20 o/oo	12.0	0.5	11.7	9.0	7.5	32438.0	20.3
2001	January	4	20 o/oo	12.0	1.0	11.7	8.9	7.5	32612.0	20.3
2001	January	4	20 o/oo	12.0	1.5	11.7	8.7	7.5	32667.0	20.4
2001	January	4	20 o/oo	12.0	1.7	11.7	8.8	7.5	32660.0	20.4

----- Month=February STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	February	1	#18	30.4	0.2	20.2	8.5	7.6	928.0	0.5
2001	February	1	#18	30.4	0.5	19.6	8.4	7.6	926.0	0.5
2001	February	1	#18	30.4	1.0	19.2	8.4	7.6	926.0	0.5
2001	February	1	#18	30.4	1.5	19.2	8.5	7.6	927.0	0.5
2001	February	1	#18	30.4	2.0	19.1	8.5	7.6	927.0	0.5
2001	February	1	#18	30.4	2.5	19.1	8.4	7.6	927.0	0.5
2001	February	1	#18	30.4	3.0	19.1	8.4	7.6	927.0	0.5
2001	February	1	#18	30.4	3.5	19.1	8.3	7.6	927.0	0.5
2001	February	1	#18	30.4	3.9	19.1	8.3	7.6	927.0	0.5

----- Month=February STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	February	1	0 o/oo	37.3	0.2	21.0	9.1	8.0	948.0	0.5
2001	February	1	0 o/oo	37.3	0.5	20.6	8.5	8.0	946.0	0.5
2001	February	1	0 o/oo	37.3	1.0	20.4	8.3	8.0	945.0	0.5
2001	February	1	0 o/oo	37.3	1.5	20.2	8.3	8.0	946.0	0.5
2001	February	1	0 o/oo	37.3	2.0	20.3	8.4	8.0	946.0	0.5
2001	February	1	0 o/oo	37.3	2.5	20.3	8.3	8.0	948.0	0.5
2001	February	1	0 o/oo	37.3	3.0	20.4	8.3	8.0	946.0	0.5
2001	February	1	0 o/oo	37.3	3.3	19.9	8.3	8.0	949.0	0.5

----- Month=February STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	February	1	6 o/oo	19.2	0.2	20.8	10.4	7.9	11266.0	6.1
2001	February	1	6 o/oo	19.2	0.5	20.1	9.4	7.8	11633.0	6.7
2001	February	1	6 o/oo	19.2	1.0	19.8	8.7	7.6	13259.0	7.6
2001	February	1	6 o/oo	19.2	1.5	19.8	8.4	7.6	13828.0	8.0
2001	February	1	6 o/oo	19.2	2.0	19.7	8.0	7.6	14721.0	8.5

----- Month=February STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	February	1	12 o/oo	17.4	0.2	20.2	8.0	7.6	20173.0	12.0
2001	February	1	12 o/oo	17.4	0.5	20.0	7.2	7.5	24401.0	14.8
2001	February	1	12 o/oo	17.4	1.0	19.9	6.9	7.4	26949.0	16.7
2001	February	1	12 o/oo	17.4	1.5	20.0	6.6	7.4	28754.0	17.7
2001	February	1	12 o/oo	17.4	1.8	20.0	6.5	7.4	28998.0	17.9

----- Month=February STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	February	1	20 o/oo	12.0	0.2	20.6	5.9	7.3	33023.0	20.7
2001	February	1	20 o/oo	12.0	0.5	20.2	6.2	7.3	35010.0	21.9
2001	February	1	20 o/oo	12.0	1.0	20.2	6.3	7.4	35210.0	22.2
2001	February	1	20 o/oo	12.0	1.5	20.1	6.4	7.4	35712.0	22.5
2001	February	1	20 o/oo	12.0	2.0	20.1	6.5	7.4	36396.0	23.0
2001	February	1	20 o/oo	12.0	2.5	20.2	6.4	7.4	36425.0	23.1
2001	February	1	20 o/oo	12.0	3.0	20.2	6.4	7.4	36500.0	23.1
2001	February	1	20 o/oo	12.0	3.4	20.2	6.3	7.4	36525.0	23.1

----- Month=March STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	March	1	#18	30.4	0.2	25.6	7.2	7.4	1615.0	0.9
2001	March	1	#18	30.4	0.5	25.5	7.1	7.4	1622.0	0.9
2001	March	1	#18	30.4	1.0	25.4	7.0	7.4	1627.0	0.9
2001	March	1	#18	30.4	1.5	25.3	6.8	7.3	1626.0	0.9
2001	March	1	#18	30.4	2.0	25.2	6.7	7.3	1639.0	0.9
2001	March	1	#18	30.4	2.5	25.2	6.8	7.3	1643.0	0.9
2001	March	1	#18	30.4	3.0	25.2	6.7	7.3	1645.0	0.9
2001	March	1	#18	30.4	3.4	25.2	6.6	7.3	1649.0	0.9

----- Month=March STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	March	1	0 o/oo	37.3	0.2	25.6	7.2	7.7	1042.0	0.5
2001	March	1	0 o/oo	37.3	0.5	25.7	7.2	7.8	1039.0	0.5
2001	March	1	0 o/oo	37.3	1.0	25.1	6.7	7.7	1039.0	0.5
2001	March	1	0 o/oo	37.3	1.5	25.4	6.7	7.7	1041.0	0.5
2001	March	1	0 o/oo	37.3	2.0	25.1	6.4	7.7	1038.0	0.5
2001	March	1	0 o/oo	37.3	2.5	25.2	6.3	7.7	1039.0	0.5
2001	March	1	0 o/oo	37.3	3.0	25.2	6.4	7.7	1038.0	0.5
2001	March	1	0 o/oo	37.3	3.5	25.0	6.3	7.7	1040.0	0.5
2001	March	1	0 o/oo	37.3	4.0	25.2	6.2	7.7	1040.0	0.5
2001	March	1	0 o/oo	37.3	4.2	25.2	6.3	7.7	1039.0	0.5

----- Month=March STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	March	1	6 o/oo	24.5	0.2	25.8	5.8	7.2	10962.0	6.2
2001	March	1	6 o/oo	24.5	0.5	25.6	5.5	7.2	11459.0	6.4
2001	March	1	6 o/oo	24.5	1.0	25.3	4.6	7.1	12155.0	6.9
2001	March	1	6 o/oo	24.5	1.5	25.3	4.4	7.1	12370.0	7.1

----- Month=March STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	March	1	12 o/oo	20.6	0.2	25.6	4.9	7.2	20636.0	12.3
2001	March	1	12 o/oo	20.6	0.5	25.6	4.8	7.2	20910.0	12.4
2001	March	1	12 o/oo	20.6	1.0	25.6	4.7	7.2	20817.0	12.4
2001	March	1	12 o/oo	20.6	1.5	25.6	4.7	7.2	20962.0	12.5
2001	March	1	12 o/oo	20.6	2.0	25.6	4.6	7.2	21023.0	12.5
2001	March	1	12 o/oo	20.6	2.5	25.6	4.5	7.2	21460.0	12.7
2001	March	1	12 o/oo	20.6	3.0	25.5	4.4	7.2	21734.0	13.0
2001	March	1	12 o/oo	20.6	3.5	25.5	4.4	7.2	21738.0	12.9
2001	March	1	12 o/oo	20.6	4.0	22.4	4.1	7.2	22488.0	13.6
2001	March	1	12 o/oo	20.6	4.5	25.3	3.9	7.2	22611.0	13.6

----- Month=March STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	March	1	20 o/oo	12.2	0.2	25.2	5.1	7.5	23975.0	20.6
2001	March	1	20 o/oo	12.2	0.5	25.3	5.1	7.5	35140.0	21.8
2001	March	1	20 o/oo	12.2	1.0	25.2	5.0	7.5	35314.0	22.3
2001	March	1	20 o/oo	12.2	1.3	25.2	4.9	7.5	35354.0	22.3

----- Month=April STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	April	3	#18	30.4	0.2	23.5	7.1	7.3	824.0	0.5
2001	April	3	#18	30.4	0.5	23.1	7.1	7.3	876.0	0.5
2001	April	3	#18	30.4	1.0	23.1	7.0	7.3	877.0	0.5
2001	April	3	#18	30.4	1.5	22.5	7.0	7.3	885.0	0.5
2001	April	3	#18	30.4	2.0	21.7	6.9	7.2	920.0	0.5
2001	April	3	#18	30.4	2.5	21.5	6.7	7.2	915.0	0.5
2001	April	3	#18	30.4	3.0	21.4	6.6	7.2	899.0	0.5
2001	April	3	#18	30.4	3.5	21.4	6.6	7.2	892.0	0.5
2001	April	3	#18	30.4	3.9	21.4	6.5	7.2	890.0	0.5

----- Month=April STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	April	3	0 o/oo	37.3	0.2	23.4	7.4	7.3	810.0	0.4
2001	April	3	0 o/oo	37.3	0.5	23.5	7.4	7.3	812.0	0.4
2001	April	3	0 o/oo	37.3	1.0	23.5	7.2	7.3	809.0	0.4
2001	April	3	0 o/oo	37.3	1.5	22.9	7.1	7.3	817.0	0.4
2001	April	3	0 o/oo	37.3	2.0	22.8	7.1	7.3	823.0	0.4
2001	April	3	0 o/oo	37.3	2.5	22.9	7.1	7.3	811.0	0.4
2001	April	3	0 o/oo	37.3	3.0	22.9	7.0	7.3	811.0	0.4
2001	April	3	0 o/oo	37.3	3.5	22.8	7.0	7.2	841.0	0.4

----- Month=April STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	April	3	6 o/oo	18.5	0.2	23.7	9.5	7.7	11847.0	6.7
2001	April	3	6 o/oo	18.5	0.5	23.7	9.5	7.7	11933.0	6.9
2001	April	3	6 o/oo	18.5	1.0	23.4	9.1	7.6	12580.0	7.2
2001	April	3	6 o/oo	18.5	1.5	23.4	8.5	7.5	12985.0	7.5
2001	April	3	6 o/oo	18.5	2.0	22.9	7.6	7.4	14640.0	8.5
2001	April	3	6 o/oo	18.5	2.5	22.9	7.5	7.4	14803.0	8.6
2001	April	3	6 o/oo	18.5	3.0	22.9	7.4	7.4	14971.0	8.7
2001	April	3	6 o/oo	18.5	3.5	22.9	7.2	7.3	15314.0	8.9
2001	April	3	6 o/oo	18.5	4.0	22.8	7.2	7.3	15261.0	8.9
2001	April	3	6 o/oo	18.5	4.5	22.8	7.1	7.3	15323.0	8.9
2001	April	3	6 o/oo	18.5	5.0	22.8	6.8	7.3	15377.0	8.9

----- Month=April STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	April	3	12 o/oo	16.0	0.2	23.1	8.8	7.7	22647.0	12.8
2001	April	3	12 o/oo	16.0	0.5	23.0	8.6	7.7	23176.0	13.9
2001	April	3	12 o/oo	16.0	1.0	22.9	8.4	7.7	23254.0	14.0
2001	April	3	12 o/oo	16.0	1.5	22.9	8.3	7.6	23496.0	14.1
2001	April	3	12 o/oo	16.0	1.8	22.9	7.9	7.6	23861.0	14.5

----- Month=April STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	April	3	20 o/oo	11.4	0.2	23.0	8.6	7.8	32382.0	20.2
2001	April	3	20 o/oo	11.4	0.5	22.9	8.3	7.8	32454.0	20.2
2001	April	3	20 o/oo	11.4	1.0	22.8	7.8	7.7	33885.0	21.4
2001	April	3	20 o/oo	11.4	1.5	22.7	7.5	7.7	34842.0	21.9
2001	April	3	20 o/oo	11.4	2.0	22.7	7.4	7.7	35318.0	22.4
2001	April	3	20 o/oo	11.4	2.5	22.7	7.1	7.7	36541.0	23.1
2001	April	3	20 o/oo	11.4	3.0	22.7	6.8	7.7	37449.0	23.3
2001	April	3	20 o/oo	11.4	3.5	22.6	6.2	7.6	39205.0	25.0

----- Month=May STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	May	10	#18	30.4	0.2	25.5	7.6	7.8	2371.0	1.3
2001	May	10	#18	30.4	0.5	25.2	7.4	7.7	2452.0	1.3
2001	May	10	#18	30.4	1.0	24.9	7.1	7.6	3097.0	1.7
2001	May	10	#18	30.4	1.5	24.6	6.6	7.6	3324.0	1.8
2001	May	10	#18	30.4	2.0	24.6	6.5	7.5	3445.0	1.9
2001	May	10	#18	30.4	2.5	24.5	6.3	7.5	3611.0	2.0
2001	May	10	#18	30.4	3.0	24.6	6.2	7.5	3633.0	2.0
2001	May	10	#18	30.4	3.5	24.6	6.2	7.5	3674.0	2.0

----- Month=May STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	May	10	0 o/oo	37.2	0.2	25.7	7.9	8.2	1184.0	0.6
2001	May	10	0 o/oo	37.2	0.5	25.8	7.8	8.2	1185.0	0.6
2001	May	10	0 o/oo	37.2	1.0	25.3	7.6	8.2	1178.0	0.6
2001	May	10	0 o/oo	37.2	1.5	25.2	7.5	8.1	1176.0	0.6
2001	May	10	0 o/oo	37.2	2.0	25.1	7.4	8.1	1176.0	0.6
2001	May	10	0 o/oo	37.2	2.5	25.1	7.3	8.1	1176.0	0.6
2001	May	10	0 o/oo	37.2	3.0	25.1	7.1	8.1	1175.0	0.6

----- Month=May STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	May	10	6 o/oo	26.1	0.2	25.1	6.7	7.5	10579.0	6.0
2001	May	10	6 o/oo	26.1	0.5	25.2	6.7	7.5	10574.0	5.9
2001	May	10	6 o/oo	26.1	1.0	24.6	5.6	7.4	11980.0	6.8
2001	May	10	6 o/oo	26.1	1.5	24.4	5.8	7.3	12144.0	7.0
2001	May	10	6 o/oo	26.1	2.0	24.4	5.5	7.3	12135.0	7.0

----- Month=May STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	May	10	12 o/oo	22.2	0.2	24.6	6.5	7.4	20130.0	12.0
2001	May	10	12 o/oo	22.2	0.5	24.6	6.5	7.4	20231.0	12.0
2001	May	10	12 o/oo	22.2	1.0	24.2	5.9	7.4	21381.0	12.7
2001	May	10	12 o/oo	22.2	1.5	24.1	5.4	7.3	21709.0	13.0
2001	May	10	12 o/oo	22.2	2.0	23.9	5.3	7.3	23436.0	13.9
2001	May	10	12 o/oo	22.2	2.5	23.9	5.0	7.4	24166.0	14.6
2001	May	10	12 o/oo	22.2	3.0	23.8	4.8	7.3	24323.0	14.7
2001	May	10	12 o/oo	22.2	3.5	23.8	5.2	7.3	24340.0	14.8
2001	May	10	12 o/oo	22.2	4.0	23.8	4.7	7.3	24414.0	14.8
2001	May	10	12 o/oo	22.2	4.5	23.9	4.8	7.3	24470.0	14.8

----- Month=May STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	May	10	20 o/oo	18.0	0.2	23.2	6.6	7.6	32545.0	20.3
2001	May	10	20 o/oo	18.0	0.5	23.2	6.7	7.6	32573.0	23.3
2001	May	10	20 o/oo	18.0	1.0	23.1	6.6	7.6	32664.0	20.4
2001	May	10	20 o/oo	18.0	1.5	23.1	6.3	7.6	33900.0	20.9
2001	May	10	20 o/oo	18.0	2.0	23.3	5.7	7.6	35316.0	22.2

----- Month=June STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	June	7	#18	30.4	0.2	29.3	4.7	7.2	2231.0	1.2
2001	June	7	#18	30.4	0.5	28.9	4.7	7.2	2259.0	1.2
2001	June	7	#18	30.4	1.0	29.0	4.6	7.2	2299.0	1.2
2001	June	7	#18	30.4	1.5	28.8	4.5	7.2	2359.0	1.3
2001	June	7	#18	30.4	2.0	28.7	4.4	7.2	2366.0	1.3
2001	June	7	#18	30.4	2.5	28.7	4.3	7.2	2424.0	1.3
2001	June	7	#18	30.4	3.0	28.6	4.1	7.2	2449.0	1.3
2001	June	7	#18	30.4	3.5	28.4	3.9	7.1	2523.0	1.4

----- Month=June STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	June	7	0 o/oo	37.2	0.2	29.6	6.1	7.7	1168.0	0.6
2001	June	7	0 o/oo	37.2	0.5	29.3	6.0	7.6	1167.0	0.6
2001	June	7	0 o/oo	37.2	1.0	29.1	5.9	7.6	1168.0	0.6
2001	June	7	0 o/oo	37.2	1.5	29.1	5.8	7.6	1167.0	0.6
2001	June	7	0 o/oo	37.2	2.0	28.9	5.8	7.6	1167.0	0.6
2001	June	7	0 o/oo	37.2	2.5	28.9	5.8	7.6	1167.0	0.6
2001	June	7	0 o/oo	37.2	3.0	28.9	5.7	7.6	1167.0	0.6
2001	June	7	0 o/oo	37.2	3.5	28.9	5.7	7.6	1167.0	0.6

----- Month=June STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	June	7	6 o/oo	24.5	0.2	29.8	4.6	7.1	10790.0	6.2
2001	June	7	6 o/oo	24.5	0.5	28.8	3.8	7.0	11507.0	6.6
2001	June	7	6 o/oo	24.5	1.0	28.7	3.4	6.9	12219.0	7.1
2001	June	7	6 o/oo	24.5	1.5	28.6	3.3	6.9	12424.0	7.1
2001	June	7	6 o/oo	24.5	2.0	28.6	3.0	6.9	13079.0	7.5

----- Month=June STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	June	7	12 o/oo	21.6	0.2	29.1	3.6	7.0	19504.0	11.8
2001	June	7	12 o/oo	21.6	0.5	28.9	3.2	7.0	21546.0	12.9
2001	June	7	12 o/oo	21.6	1.0	28.8	2.9	7.0	22447.0	13.5

----- Month=June STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	June	7	20 o/oo	16.0	0.2	28.9	4.8	7.3	32048.0	20.0
2001	June	7	20 o/oo	16.0	0.5	28.7	4.3	7.2	33068.0	20.7
2001	June	7	20 o/oo	16.0	1.0	28.7	4.0	7.2	34410.0	21.6
2001	June	7	20 o/oo	16.0	1.5	28.5	4.0	7.2	34785.0	21.8
2001	June	7	20 o/oo	16.0	2.0	28.4	4.0	7.3	35984.0	22.7
2001	June	7	20 o/oo	16.0	2.5	28.4	4.1	7.3	36544.0	23.1
2001	June	7	20 o/oo	16.0	3.0	28.2	3.8	7.3	37214.0	23.6

----- Month=July STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	July	10	#18	30.4	0.2	29.1	5.7	7.4	635.0	0.3
2001	July	10	#18	30.4	0.5	28.9	5.4	7.4	638.0	0.3
2001	July	10	#18	30.4	1.0	28.8	5.3	7.4	641.0	0.3
2001	July	10	#18	30.4	1.5	28.5	5.3	7.4	638.0	0.3
2001	July	10	#18	30.4	2.0	28.4	5.1	7.4	642.0	0.3
2001	July	10	#18	30.4	2.5	28.2	5.0	7.4	643.0	0.3
2001	July	10	#18	30.4	3.0	28.2	5.0	7.4	644.0	0.3

----- Month=July STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	July	10	0 o/oo	37.2	0.2	28.4	6.0	7.5	669.0	0.3
2001	July	10	0 o/oo	37.2	0.5	28.3	5.9	7.5	673.0	0.4
2001	July	10	0 o/oo	37.2	1.0	28.3	5.8	7.5	668.0	0.4
2001	July	10	0 o/oo	37.2	1.5	28.3	5.9	7.5	673.0	0.4
2001	July	10	0 o/oo	37.2	2.0	28.1	5.7	7.5	668.0	0.4
2001	July	10	0 o/oo	37.2	2.5	28.0	5.2	7.4	624.0	0.3
2001	July	10	0 o/oo	37.2	3.0	28.1	5.6	7.5	657.0	0.4
2001	July	10	0 o/oo	37.2	3.5	28.2	5.5	7.4	669.0	0.3

----- Month=July STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	July	10	6 o/oo	19.0	0.2	29.9	3.9	7.1	10170.0	6.0
2001	July	10	6 o/oo	19.0	0.5	29.5	3.5	7.1	12569.0	7.3
2001	July	10	6 o/oo	19.0	1.0	29.4	3.4	7.1	12763.0	7.3
2001	July	10	6 o/oo	19.0	1.5	29.4	3.0	7.1	15507.0	9.1
2001	July	10	6 o/oo	19.0	2.0	29.5	2.7	7.1	17782.0	10.5

----- Month=July STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	July	10	12 o/oo	14.5	0.2	29.3	5.3	7.4	20094.0	12.0
2001	July	10	12 o/oo	14.5	0.5	29.3	5.2	7.4	20118.0	12.0
2001	July	10	12 o/oo	14.5	1.0	29.1	5.0	7.5	22721.0	13.6
2001	July	10	12 o/oo	14.5	1.5	29.3	3.7	7.4	27189.0	16.6
2001	July	10	12 o/oo	14.5	2.0	29.2	3.8	7.4	27601.0	16.9

----- Month=July STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	July	10	20 o/oo	11.6	0.2	29.2	5.4	7.6	32530.0	20.3
2001	July	10	20 o/oo	11.6	0.5	29.2	5.1	7.6	32557.0	20.3
2001	July	10	20 o/oo	11.6	1.0	29.1	4.7	7.6	32896.0	20.6
2001	July	10	20 o/oo	11.6	1.5	29.2	4.5	7.6	33547.0	21.0
2001	July	10	20 o/oo	11.6	2.0	29.3	4.3	7.6	34720.0	21.6

----- Month=August STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	August	9	#18	30.4	0.2	27.6	3.7	6.9	261.0	0.1
2001	August	9	#18	30.4	0.5	27.5	3.7	6.9	260.0	0.1
2001	August	9	#18	30.4	1.0	27.4	3.3	6.9	261.0	0.1
2001	August	9	#18	30.4	1.5	27.5	3.3	6.9	261.0	0.1
2001	August	9	#18	30.4	2.0	27.5	3.2	6.9	261.0	0.1
2001	August	9	#18	30.4	2.5	27.5	3.1	6.9	260.0	0.1
2001	August	9	#18	30.4	3.0	27.5	3.0	6.9	262.0	0.1
2001	August	9	#18	30.4	3.5	27.5	3.0	6.9	262.0	0.1

----- Month=August STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	August	9	0 o/oo	11.0	0.2	30.8	3.7	7.1	469.0	0.2
2001	August	9	0 o/oo	11.0	0.5	29.4	3.5	7.1	443.0	0.2
2001	August	9	0 o/oo	11.0	1.0	29.0	3.5	7.1	486.0	0.2
2001	August	9	0 o/oo	11.0	1.5	28.8	3.5	7.1	508.0	0.3
2001	August	9	0 o/oo	11.0	2.0	28.8	3.5	7.1	506.0	0.3
2001	August	9	0 o/oo	11.0	2.5	28.8	3.4	7.1	506.0	0.3
2001	August	9	0 o/oo	11.0	3.0	28.7	3.3	7.0	1327.0	0.7
2001	August	9	0 o/oo	11.0	3.5	28.7	2.9	6.9	5991.0	4.0

----- Month=August STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	August	9	6 o/oo	-14.5	0.2	31.8	5.5	7.4	10642.0	6.0
2001	August	9	6 o/oo	-14.5	0.5	29.6	5.3	7.5	18681.0	11.4
2001	August	9	6 o/oo	-14.5	1.0	28.9	6.0	8.0	31211.0	19.8
2001	August	9	6 o/oo	-14.5	1.5	28.4	5.0	7.8	33552.0	21.0
2001	August	9	6 o/oo	-14.5	2.0	27.7	3.8	7.6	34351.0	21.6
2001	August	9	6 o/oo	-14.5	2.5	27.7	3.6	7.6	34413.0	21.6
2001	August	9	6 o/oo	-14.5	3.0	27.6	3.5	7.6	34448.0	21.7
2001	August	9	6 o/oo	-14.5	3.5	27.6	3.4	7.6	34486.0	21.7

----- Month=August STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	August	9	12 o/oo	-22.5	0.2	31.8	5.8	7.8	21995.0	12.3
2001	August	9	12 o/oo	-22.5	0.5	28.9	5.5	7.8	30388.0	18.8
2001	August	9	12 o/oo	-22.5	1.0	28.4	5.5	7.9	34546.0	21.7
2001	August	9	12 o/oo	-22.5	1.5	28.4	5.8	8.0	35176.0	22.3
2001	August	9	12 o/oo	-22.5	2.0	28.5	5.5	8.0	40644.0	26.0
2001	August	9	12 o/oo	-22.5	2.5	28.5	5.1	7.9	43912.0	28.4
2001	August	9	12 o/oo	-22.5	3.0	28.3	4.3	7.9	46371.0	30.2
2001	August	9	12 o/oo	-22.5	3.5	28.2	3.7	7.8	48135.0	31.4
2001	August	9	12 o/oo	-22.5	4.0	28.2	3.4	7.8	48321.0	31.6

----- Month=August STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	August	9	20 o/oo	-30.0	0.2	31.0	6.7	8.1	33082.0	20.2
2001	August	9	20 o/oo	-30.0	0.5	29.5	7.7	8.0	35626.0	22.7
2001	August	9	20 o/oo	-30.0	1.0	28.5	5.5	8.0	38863.0	24.8
2001	August	9	20 o/oo	-30.0	1.5	28.4	5.3	8.0	44425.0	28.9
2001	August	9	20 o/oo	-30.0	2.0	28.5	5.5	8.0	48130.0	31.4
2001	August	9	20 o/oo	-30.0	2.5	28.5	5.4	8.0	48568.0	31.8
2001	August	9	20 o/oo	-30.0	3.0	28.5	5.3	8.0	49930.0	32.7
2001	August	9	20 o/oo	-30.0	3.5	28.5	5.3	8.0	50171.0	32.9
2001	August	9	20 o/oo	-30.0	4.0	28.5	5.3	8.0	50238.0	33.0
2001	August	9	20 o/oo	-30.0	4.5	28.5	5.1	8.0	50293.0	33.1
2001	August	9	20 o/oo	-30.0	5.0	28.6	5.2	8.0	50356.0	33.0
2001	August	9	20 o/oo	-30.0	5.5	28.6	5.1	8.0	50577.0	33.3
2001	August	9	20 o/oo	-30.0	6.0	28.6	4.9	8.0	53291.0	35.3
2001	August	9	20 o/oo	-30.0	6.5	28.5	4.9	8.0	54389.0	36.1

----- Month=September STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	September	13	#18	30.4	0.2	25.8	4.0	6.6	174.0	0.1
2001	September	13	#18	30.4	0.5	25.8	3.9	6.6	183.0	0.1
2001	September	13	#18	30.4	1.0	25.8	3.9	6.6	186.0	0.1
2001	September	13	#18	30.4	1.5	25.7	4.2	6.7	176.0	0.1

----- Month=September STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	September	13	0 o/oo	12.3	0.2	23.9	4.0	6.7	228.0	0.1
2001	September	13	0 o/oo	12.3	0.5	25.9	4.0	6.7	229.0	0.1
2001	September	13	0 o/oo	12.3	1.0	25.9	4.0	6.7	234.0	0.1
2001	September	13	0 o/oo	12.3	1.5	25.9	3.9	6.7	377.0	0.2
2001	September	13	0 o/oo	12.3	2.0	26.2	3.5	6.6	2605.0	1.4
2001	September	13	0 o/oo	12.3	2.5	27.7	1.6	6.9	18382.0	10.8

----- Month=September STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	September	13	6 o/oo	-4.5	0.2	26.7	5.3	7.1	10833.0	6.2
2001	September	13	6 o/oo	-4.5	0.5	26.7	5.2	7.1	10930.0	6.3
2001	September	13	6 o/oo	-4.5	1.0	26.8	4.9	7.1	11674.0	6.8
2001	September	13	6 o/oo	-4.5	1.5	28.5	2.5	7.4	30752.0	19.0
2001	September	13	6 o/oo	-4.5	2.0	28.5	2.4	7.4	31096.0	19.3
2001	September	13	6 o/oo	-4.5	2.5	28.5	2.4	7.4	31106.0	19.3
2001	September	13	6 o/oo	-4.5	3.0	28.5	2.4	7.4	31125.0	19.3

----- Month=September STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	September	13	12 o/oo	-13.5	0.2	26.9	5.9	7.5	21135.0	12.6
2001	September	13	12 o/oo	-13.5	0.5	26.9	5.9	7.5	21145.0	12.6
2001	September	13	12 o/oo	-13.5	1.0	27.0	5.8	7.5	21278.0	12.7
2001	September	13	12 o/oo	-13.5	1.5	27.9	5.0	7.6	29206.0	18.0
2001	September	13	12 o/oo	-13.5	2.0	27.4	5.1	7.7	31544.0	19.8
2001	September	13	12 o/oo	-13.5	2.5	27.6	4.7	7.6	33479.0	20.9
2001	September	13	12 o/oo	-13.5	3.0	27.7	4.6	7.6	33836.0	21.2
2001	September	13	12 o/oo	-13.5	3.5	27.7	4.5	7.6	33930.0	21.3
2001	September	13	12 o/oo	-13.5	4.0	27.8	4.3	7.6	34170.0	21.5
2001	September	13	12 o/oo	-13.5	4.5	27.3	4.2	7.6	34229.0	21.5

----- Month=September STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	September	13	20 o/oo	-19.0	0.2	26.8	5.8	7.7	32343.0	20.1
2001	September	13	20 o/oo	-19.0	0.5	26.8	5.8	7.7	33037.0	20.9
2001	September	13	20 o/oo	-19.0	1.0	27.1	5.6	7.8	37350.0	23.5
2001	September	13	20 o/oo	-19.0	1.5	27.3	5.3	7.8	39768.0	25.7

----- Month=October STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	October	10	#18	30.4	0.2	26.0	5.1	6.5	325.0	0.2
2001	October	10	#18	30.4	0.5	25.9	5.0	6.5	325.0	0.2
2001	October	10	#18	30.4	1.0	26.0	4.9	6.5	324.0	0.2
2001	October	10	#18	30.4	1.5	26.0	5.0	6.5	325.0	0.2
2001	October	10	#18	30.4	2.0	25.9	5.0	6.5	325.0	0.2
2001	October	10	#18	30.4	2.5	25.9	4.9	6.5	326.0	0.2
2001	October	10	#18	30.4	3.0	25.9	4.9	6.5	325.0	0.2
2001	October	10	#18	30.4	3.5	25.9	4.9	6.5	326.0	0.2

----- Month=October STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	October	10	0 o/oo	14.9	0.2	25.9	6.1	6.7	433.0	0.2
2001	October	10	0 o/oo	14.9	0.5	25.9	6.1	6.7	430.0	0.2
2001	October	10	0 o/oo	14.9	1.0	25.8	6.0	6.7	435.0	0.2
2001	October	10	0 o/oo	14.9	1.5	25.8	5.9	6.7	435.0	0.2
2001	October	10	0 o/oo	14.9	2.0	25.8	5.9	6.7	435.0	0.2

----- Month=October STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	October	10	6 o/oo	8.8	0.2	25.6	6.4	6.8	10736.0	6.1
2001	October	10	6 o/oo	8.8	0.5	25.6	6.4	6.8	10767.0	6.1
2001	October	10	6 o/oo	8.8	1.0	25.4	6.2	6.8	11280.0	6.6
2001	October	10	6 o/oo	8.8	1.5	25.3	5.3	6.8	19561.0	10.6
2001	October	10	6 o/oo	8.8	1.9	25.4	5.0	6.8	21484.0	13.2

----- Month=October STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	October	10	12 o/oo	-1.3	0.2	25.2	6.1	6.9	21142.0	12.6
2001	October	10	12 o/oo	-1.3	0.5	25.2	6.1	6.9	21173.0	12.7
2001	October	10	12 o/oo	-1.3	1.0	25.2	6.1	6.9	21200.0	12.7
2001	October	10	12 o/oo	-1.3	1.5	25.2	6.0	6.9	21490.0	12.8
2001	October	10	12 o/oo	-1.3	2.0	25.2	5.9	6.9	21980.0	13.3

----- Month=October STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	October	10	20 o/oo	-6.5	0.2	26.1	6.2	6.9	33974.0	20.6
2001	October	10	20 o/oo	-6.5	0.5	26.1	5.9	7.0	32930.0	20.6
2001	October	10	20 o/oo	-6.5	1.0	26.1	5.9	10.0	32903.0	20.6
2001	October	10	20 o/oo	-6.5	1.5	26.1	5.9	7.0	32869.0	20.6
2001	October	10	20 o/oo	-6.5	2.0	26.1	5.8	7.0	33048.0	20.7
2001	October	10	20 o/oo	-6.5	2.5	26.1	5.7	7.0	33017.0	20.7
2001	October	10	20 o/oo	-6.5	3.0	26.1	5.7	7.0	33056.0	20.7
2001	October	10	20 o/oo	-6.5	3.5	26.1	5.6	7.0	33028.0	20.7

----- Month=November STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	November	9	#18	30.4	0.2	21.8	5.8	7.3	462.0	0.2
2001	November	9	#18	30.4	0.5	21.8	5.7	7.3	461.0	0.2
2001	November	9	#18	30.4	1.0	21.7	5.7	7.3	462.0	0.2
2001	November	9	#18	30.4	1.5	21.7	5.6	7.3	461.0	0.2
2001	November	9	#18	30.4	2.0	21.6	5.6	7.3	461.0	0.2
2001	November	9	#18	30.4	2.5	21.6	5.6	7.3	461.0	0.2
2001	November	9	#18	30.4	3.0	21.5	5.6	7.3	461.0	0.2
2001	November	9	#18	30.4	3.5	21.5	5.5	7.3	461.0	0.2
2001	November	9	#18	30.4	4.0	21.5	5.5	7.3	461.0	0.2

----- Month=November STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	November	9	0 o/oo	24.5	0.2	22.3	5.3	7.3	474.0	0.2
2001	November	9	0 o/oo	24.5	0.5	22.2	5.2	7.3	475.0	0.2
2001	November	9	0 o/oo	24.5	1.0	22.2	5.2	7.3	474.0	0.2
2001	November	9	0 o/oo	24.5	1.5	22.2	5.3	7.3	474.0	0.2
2001	November	9	0 o/oo	24.5	2.0	22.2	5.2	7.3	474.0	0.2

----- Month=November STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	November	9	6 o/oo	16.2	0.2	23.8	7.6	7.7	11080.0	6.3
2001	November	9	6 o/oo	16.2	0.5	23.3	7.4	7.7	12767.0	7.5
2001	November	9	6 o/oo	16.2	1.0	23.0	7.0	7.7	15063.0	8.9
2001	November	9	6 o/oo	16.2	1.5	22.9	6.7	7.6	16287.0	9.5
2001	November	9	6 o/oo	16.2	2.0	22.9	6.7	7.6	16376.0	9.6

----- Month=November STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	November	9	12 o/oo	11.0	0.2	23.3	8.9	8.0	18852.0	12.0
2001	November	9	12 o/oo	11.0	0.5	23.3	8.8	8.0	20692.0	12.3
2001	November	9	12 o/oo	11.0	1.0	22.3	7.6	7.9	25515.0	15.3
2001	November	9	12 o/oo	11.0	1.5	22.2	7.3	7.8	26465.0	16.2
2001	November	9	12 o/oo	11.0	2.0	22.1	6.9	7.8	28081.0	17.3
2001	November	9	12 o/oo	11.0	2.5	21.9	6.6	7.8	30385.0	18.9
2001	November	9	12 o/oo	11.0	3.0	21.9	6.7	7.8	30431.0	18.9

----- Month=November STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	November	9	20 o/oo	1.1	0.2	24.1	9.0	8.1	33225.0	20.1
2001	November	9	20 o/oo	1.1	0.5	22.3	9.3	8.1	33706.0	21.2
2001	November	9	20 o/oo	1.1	1.0	21.8	7.2	7.8	38260.0	24.4
2001	November	9	20 o/oo	1.1	1.5	21.5	5.9	7.7	40548.0	26.0
2001	November	9	20 o/oo	1.1	2.0	21.8	5.6	7.7	40946.0	26.2
2001	November	9	20 o/oo	1.1	2.5	21.8	5.5	7.7	40936.0	26.3
2001	November	9	20 o/oo	1.1	3.0	21.8	5.5	7.7	40963.0	26.3

----- Month=December STATION=#18 -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	December	10	#18	30.4	0.2	24.3	6.4	7.5	606.0	0.3
2001	December	10	#18	30.4	0.5	24.1	6.4	7.5	605.0	0.3
2001	December	10	#18	30.4	1.0	24.1	6.4	7.5	605.0	0.3
2001	December	10	#18	30.4	1.5	24.1	6.3	7.5	605.0	0.3
2001	December	10	#18	30.4	2.0	24.1	6.4	7.5	605.0	0.3
2001	December	10	#18	30.4	2.5	24.2	6.3	7.5	606.0	0.3
2001	December	10	#18	30.4	3.0	24.2	6.4	7.5	606.0	0.3
2001	December	10	#18	30.4	3.5	24.2	6.3	7.5	606.0	0.3

----- Month=December STATION=0 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	December	10	0 o/oo	34.3	0.2	24.1	6.7	7.6	596.0	0.3
2001	December	10	0 o/oo	34.3	0.5	24.1	6.7	7.6	596.0	0.3
2001	December	10	0 o/oo	34.3	1.0	24.1	6.7	7.6	597.0	0.3
2001	December	10	0 o/oo	34.3	1.5	24.1	6.7	7.6	596.0	0.3
2001	December	10	0 o/oo	34.3	2.0	24.1	6.6	7.6	597.0	0.3
2001	December	10	0 o/oo	34.3	2.5	24.1	6.6	7.6	597.0	0.3
2001	December	10	0 o/oo	34.3	3.0	24.1	6.6	7.6	597.0	0.3
2001	December	10	0 o/oo	34.3	3.5	24.1	6.6	7.6	597.0	0.3
2001	December	10	0 o/oo	34.3	4.0	24.1	6.6	7.6	597.0	0.3

----- Month=December STATION=6 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	December	10	6 o/oo	19.7	0.2	24.7	5.8	7.2	11045.0	6.3
2001	December	10	6 o/oo	19.7	0.5	24.7	5.7	7.2	11098.0	6.3
2001	December	10	6 o/oo	19.7	1.0	24.7	5.8	7.2	11372.0	6.5

----- Month=December STATION=12 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	December	10	12 o/oo	16.3	0.2	24.5	6.1	7.3	21016.0	12.4
2001	December	10	12 o/oo	16.3	0.5	24.5	5.9	7.3	21409.0	13.0
2001	December	10	12 o/oo	16.3	1.0	24.4	5.8	7.3	22357.0	13.4
2001	December	10	12 o/oo	16.3	1.5	24.4	5.6	7.3	23048.0	13.9
2001	December	10	12 o/oo	16.3	2.0	24.4	5.5	7.3	23201.0	14.0
2001	December	10	12 o/oo	16.3	2.5	24.4	5.4	7.3	23203.0	14.0
2001	December	10	12 o/oo	16.3	3.0	24.4	5.5	7.3	23230.0	14.0

----- Month=December STATION=20 o/oo -----

Year	Month	Day	STATION	Distance (km)	Sample Depth (m)	Temperature (C)	Dissolved Oxygen (mg/l)	pH	Conductivity	Salinity (ppt)
2001	December	10	20 o/oo	11.6	0.2	24.4	5.7	7.4	32904.0	20.6
2001	December	10	20 o/oo	11.6	0.5	24.4	5.7	7.4	33051.0	20.8
2001	December	10	20 o/oo	11.6	1.0	24.3	5.5	7.4	33443.0	21.0
2001	December	10	20 o/oo	11.6	1.5	24.3	5.6	7.4	33780.0	21.2
2001	December	10	20 o/oo	11.6	2.0	24.3	5.4	7.4	33866.0	21.2



Back to Start

APPENDIX B

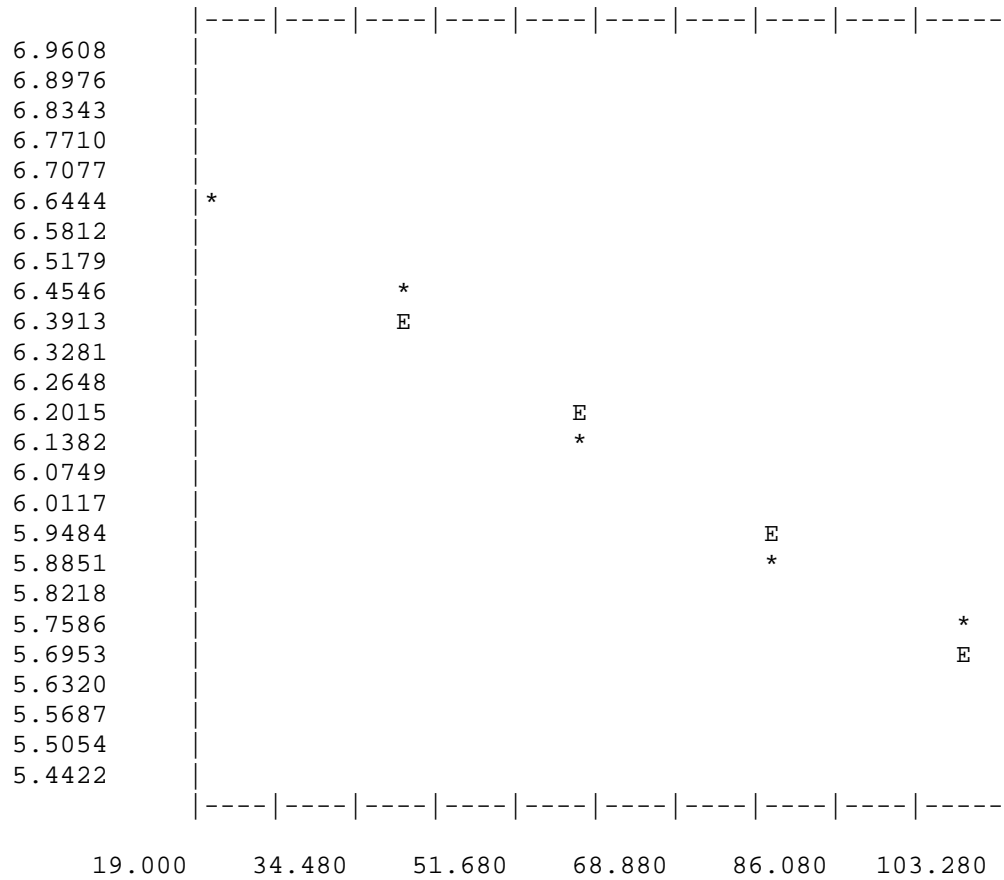
Complete Analysis of Light Profiles “Moving” Isohaline Stations

LIGHT PROFILE ANALYSES - FOR 1/ 4/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.85609	-0.01194	0.99064	0.98137
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	756.	6.62936	6.61727
2	40.	606.	6.40853	6.37845
3	60.	447.	6.10479	6.13963
4	80.	340.	5.83188	5.90081
5	100.	305.	5.72359	5.66199



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.90

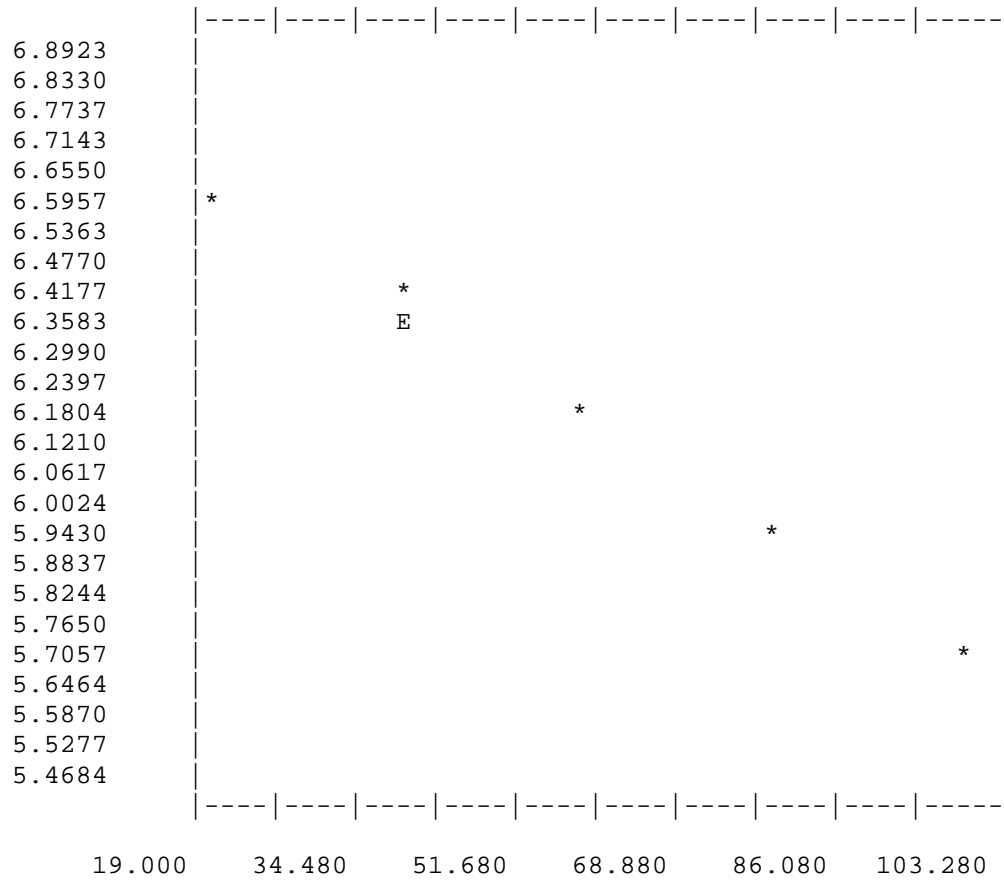
5.14

LIGHT PROFILE ANALYSES - FOR 1/ 4/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.78050	-0.01082	0.99973	0.99947
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	701.	6.55393	6.56412
2	40.	577.	6.35957	6.34775
3	60.	460.	6.13340	6.13137
4	80.	370.	5.91620	5.91499
5	100.	296.	5.69373	5.69861



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.81

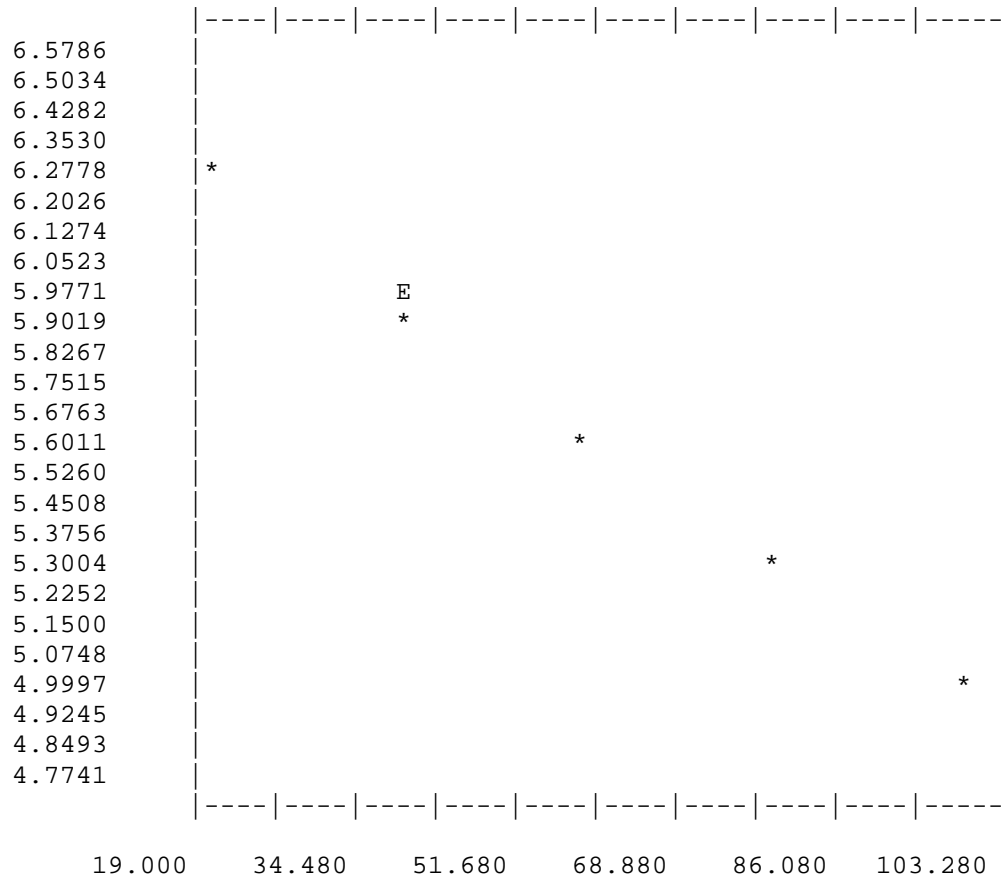
5.68

LIGHT PROFILE ANALYSES - FOR 1/ 4/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.56057	-0.01614	0.99906	0.99811
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	525.	6.26530	6.23770
2	40.	361.	5.89164	5.91483
3	60.	262.	5.57215	5.59196
4	80.	193.	5.26786	5.26909
5	100.	142.	4.96284	4.94622



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.21

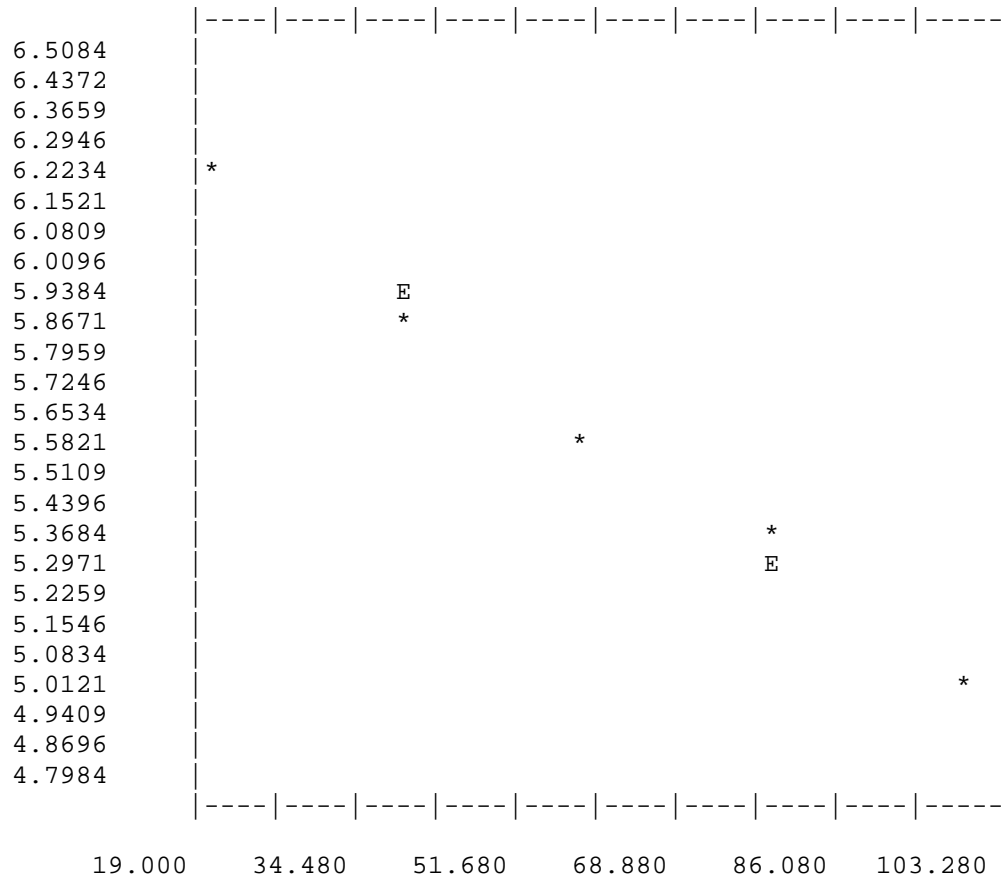
3.80

LIGHT PROFILE ANALYSES - FOR 1/ 4/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.47925	-0.01503	0.99860	0.99720
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	491.	6.19848	6.17858
2	40.	352.	5.86647	5.87792
3	60.	254.	5.54126	5.57725
4	80.	200.	5.30330	5.27658
5	100.	144.	4.97673	4.97592



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.13

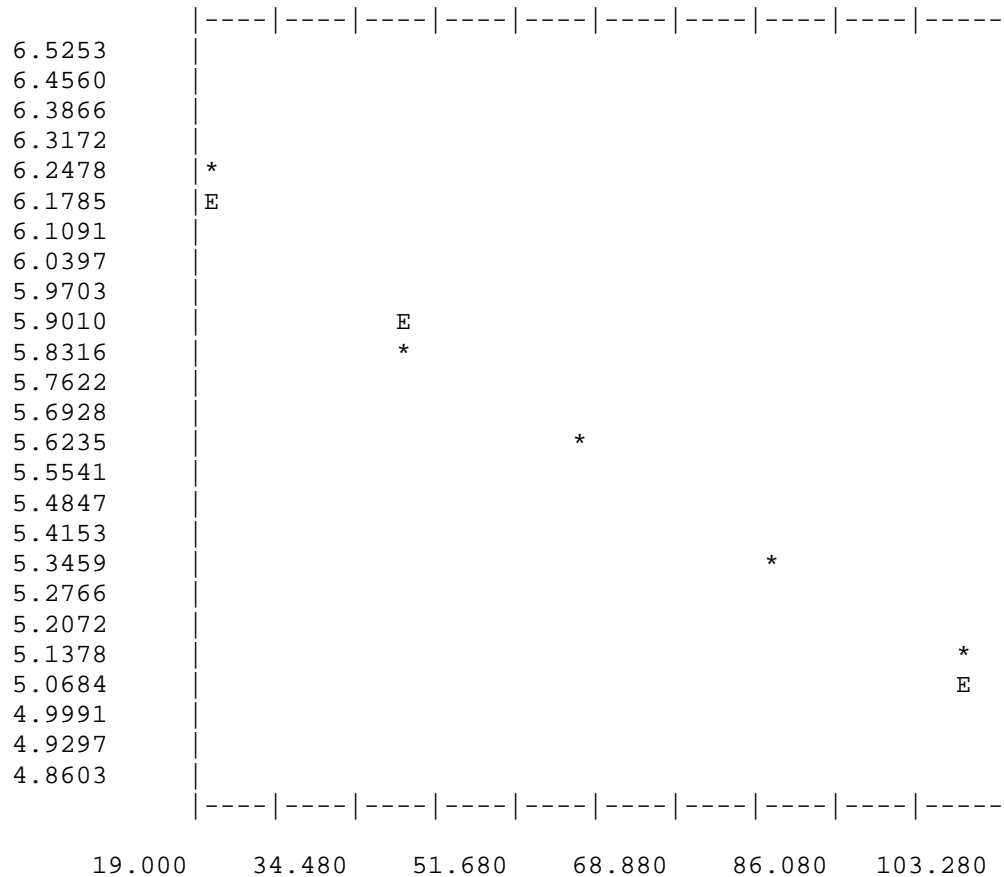
4.08

LIGHT PROFILE ANALYSES - FOR 1/ 4/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.43795	-0.01395	0.99503	0.99009
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	499.	6.21461	6.15898
2	40.	339.	5.82895	5.88001
3	60.	261.	5.56834	5.60104
4	80.	203.	5.31812	5.32207
5	100.	159.	5.07517	5.04310



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.05

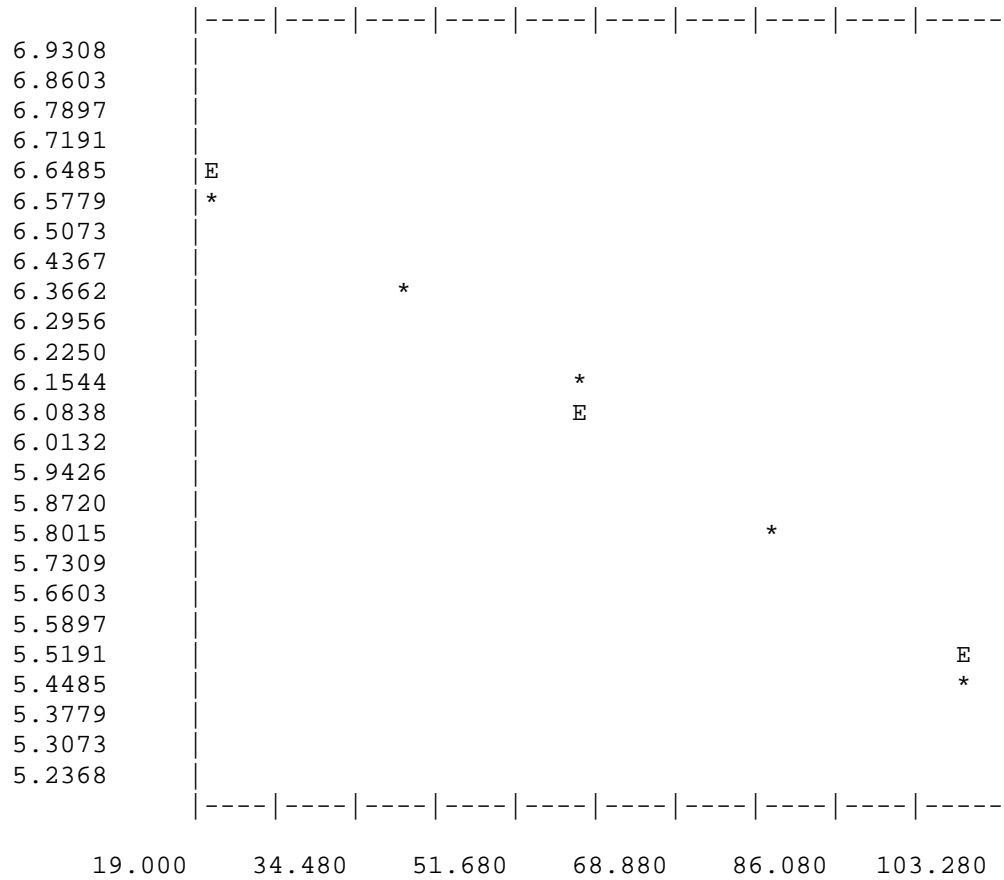
4.40

LIGHT PROFILE ANALYSES - FOR 2/ 1/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.88109	-0.01401	0.99548	0.99098
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	701.	6.55393	6.60081
2	40.	569.	6.34564	6.32053
3	60.	440.	6.08905	6.04025
4	80.	321.	5.77455	5.75997
5	100.	229.	5.43808	5.47969



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.05

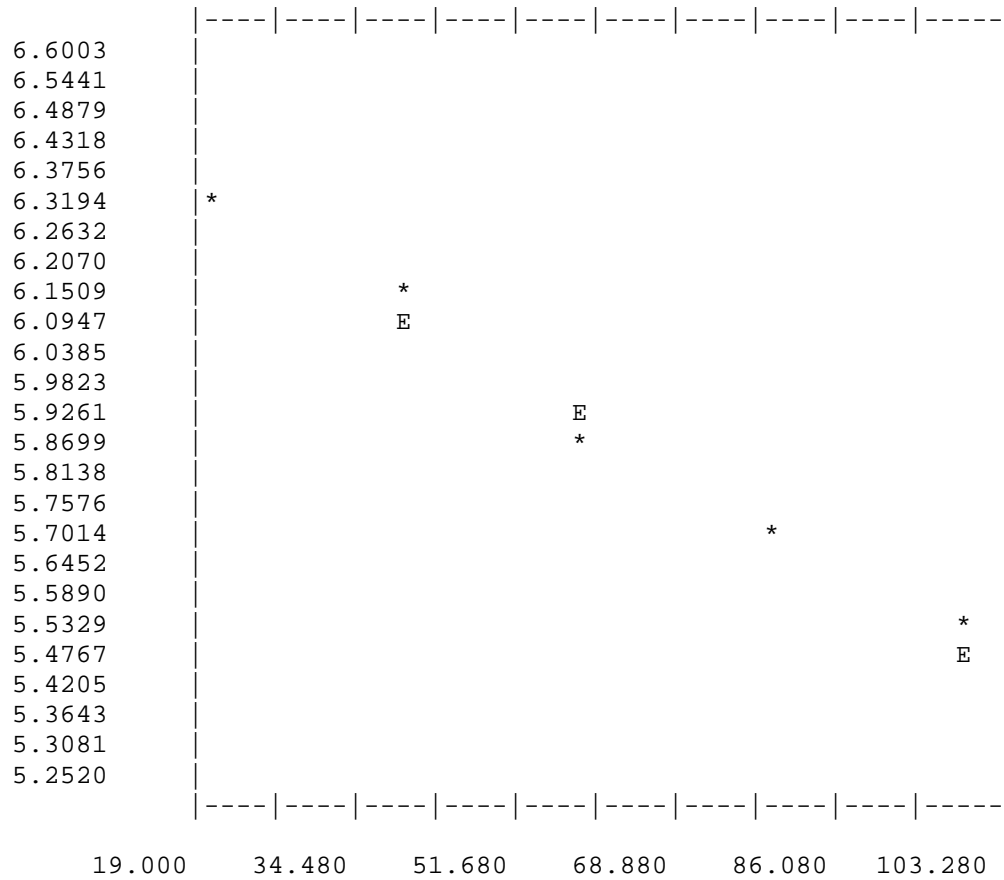
4.38

LIGHT PROFILE ANALYSES - FOR 2/ 1/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.49009	-0.01021	0.99735	0.99470
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	536.	6.28600	6.28592
2	40.	447.	6.10479	6.08175
3	60.	348.	5.85507	5.87758
4	80.	283.	5.64897	5.67341
5	100.	242.	5.49306	5.46924



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.77

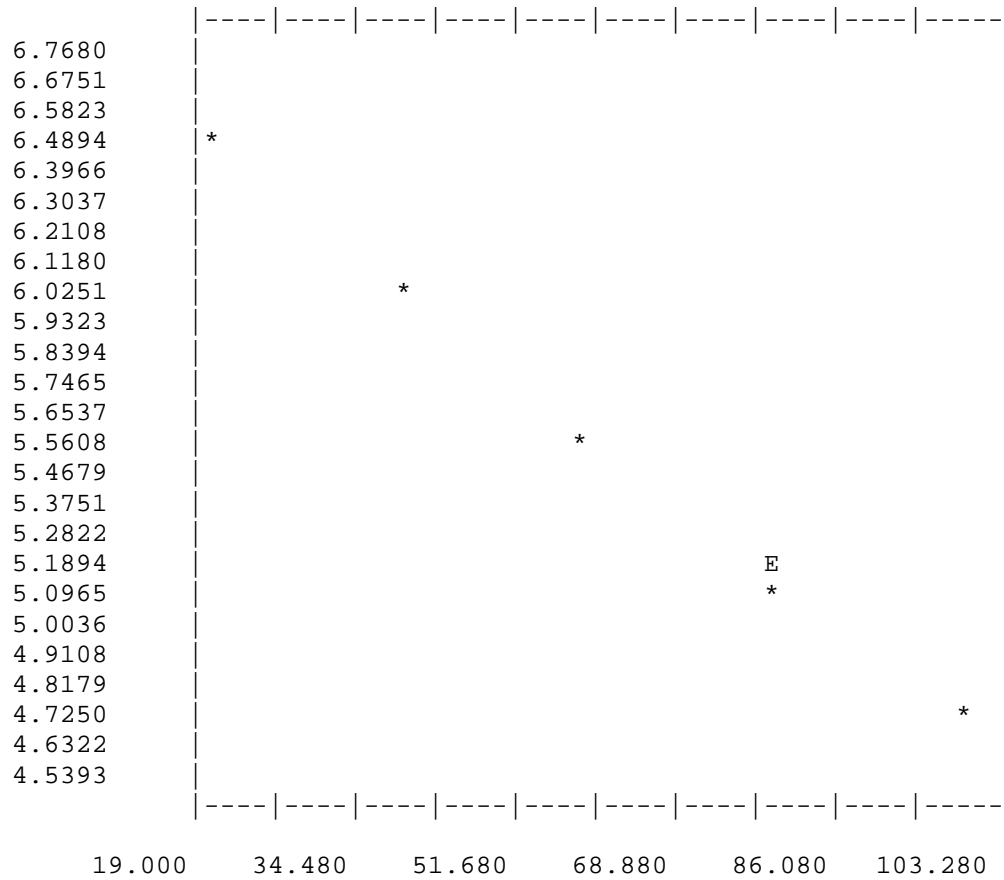
6.01

LIGHT PROFILE ANALYSES - FOR 2/ 1/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.86213	-0.02182	0.99894	0.99789
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	629.	6.44572	6.42580
2	40.	401.	5.99645	5.98947
3	60.	248.	5.51745	5.55314
4	80.	161.	5.08760	5.11681
5	100.	111.	4.71850	4.68048



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.64

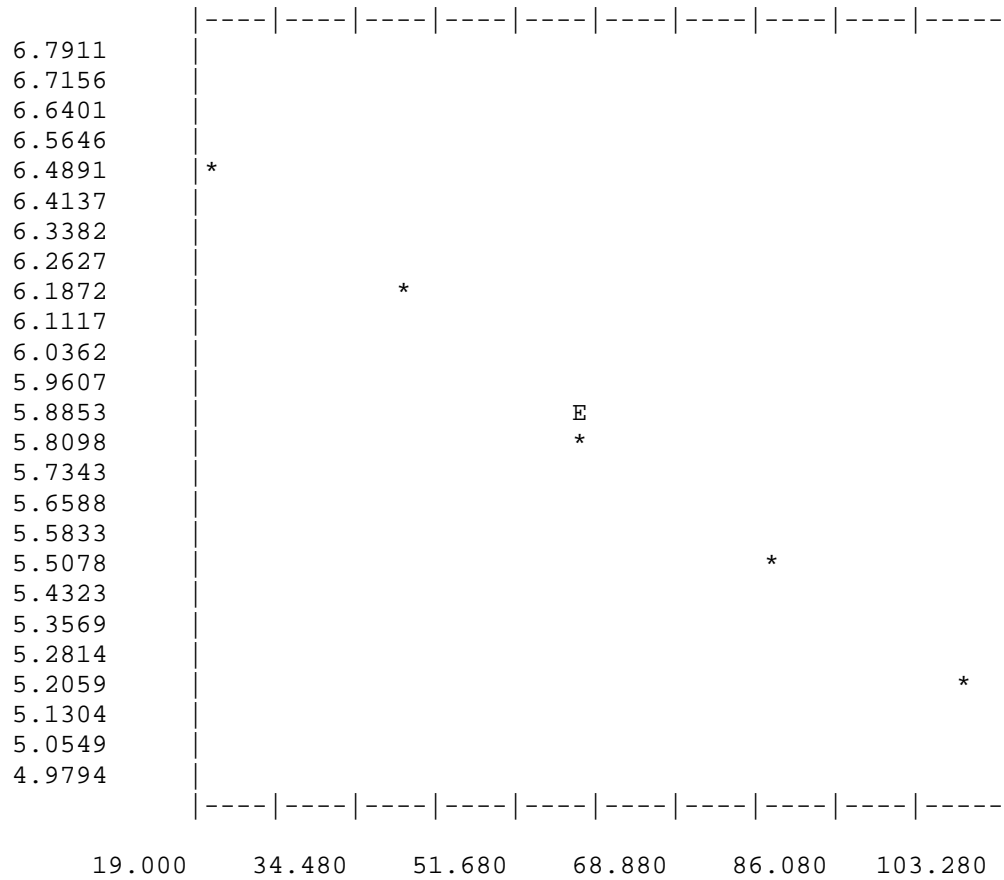
2.81

LIGHT PROFILE ANALYSES - FOR 2/ 1/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.78248	-0.01620	0.99919	0.99837
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	643.	6.46770	6.45839
2	40.	461.	6.13556	6.13431
3	60.	331.	5.80513	5.81022
4	80.	233.	5.45532	5.48613
5	100.	178.	5.18739	5.16205



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.22

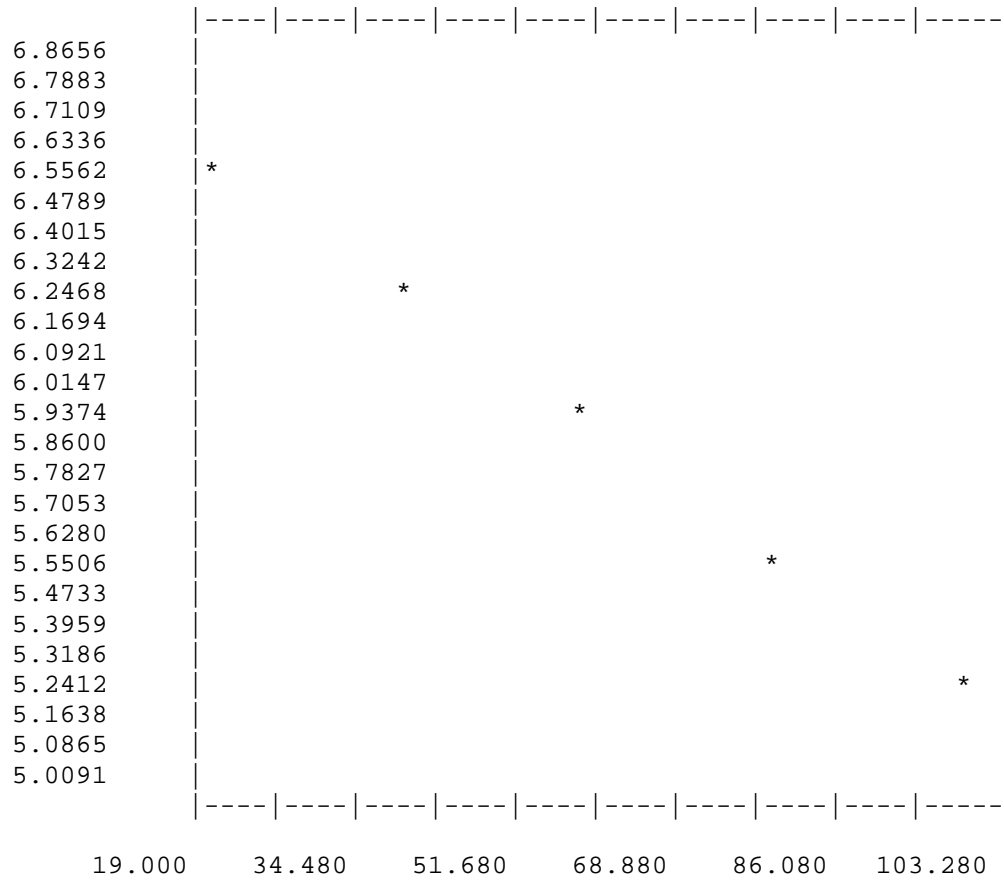
3.79

LIGHT PROFILE ANALYSES - FOR 2/ 1/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.87554	-0.01684	0.99944	0.99888
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	678.	6.52062	6.53870
2	40.	507.	6.23048	6.20186
3	60.	351.	5.86363	5.86503
4	80.	248.	5.51745	5.52819
5	100.	179.	5.19296	5.19136



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.26

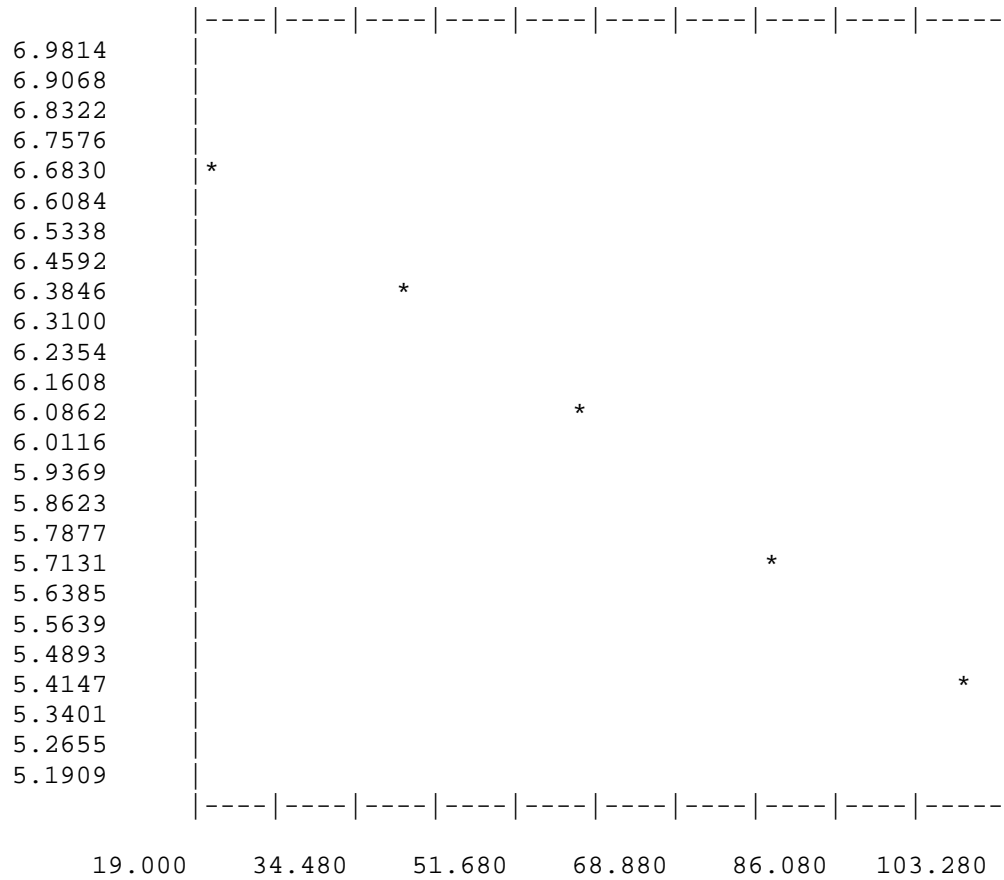
3.65

LIGHT PROFILE ANALYSES - FOR 3/ 1/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.95849	-0.01573	0.99943	0.99886
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	771.	6.64898	6.64390
2	40.	552.	6.31536	6.32931
3	60.	417.	6.03548	6.01472
4	80.	292.	5.68017	5.70014
5	100.	219.	5.39363	5.38555



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.18

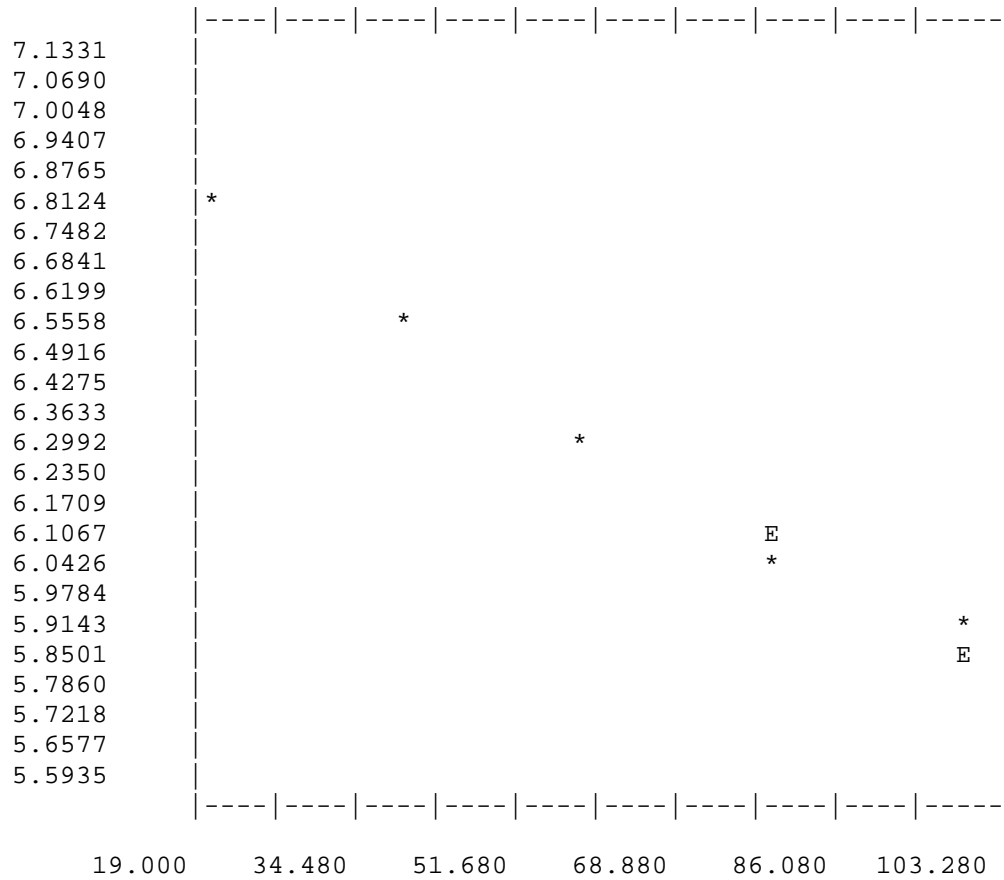
3.90

LIGHT PROFILE ANALYSES - FOR 3/ 1/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.01090	-0.01191	0.99639	0.99279
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	891.	6.79347	6.77280
2	40.	689.	6.53669	6.53469
3	60.	528.	6.27099	6.29659
4	80.	411.	6.02102	6.05849
5	100.	350.	5.86079	5.82039



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.89

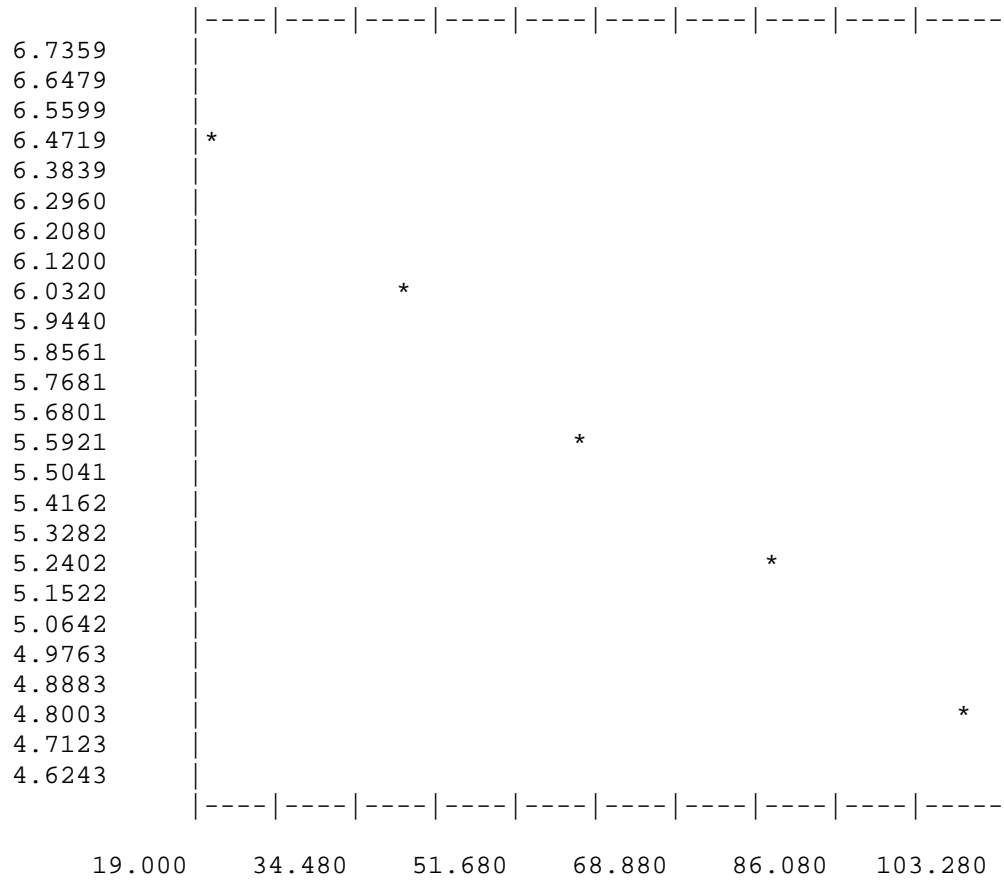
5.16

LIGHT PROFILE ANALYSES - FOR 3/ 1/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.80914	-0.02034	0.99983	0.99967
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	610.	6.41510	6.40233
2	40.	398.	5.98896	5.99553
3	60.	263.	5.57595	5.58873
4	80.	176.	5.17615	5.18193
5	100.	119.	4.78749	4.77513



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.53

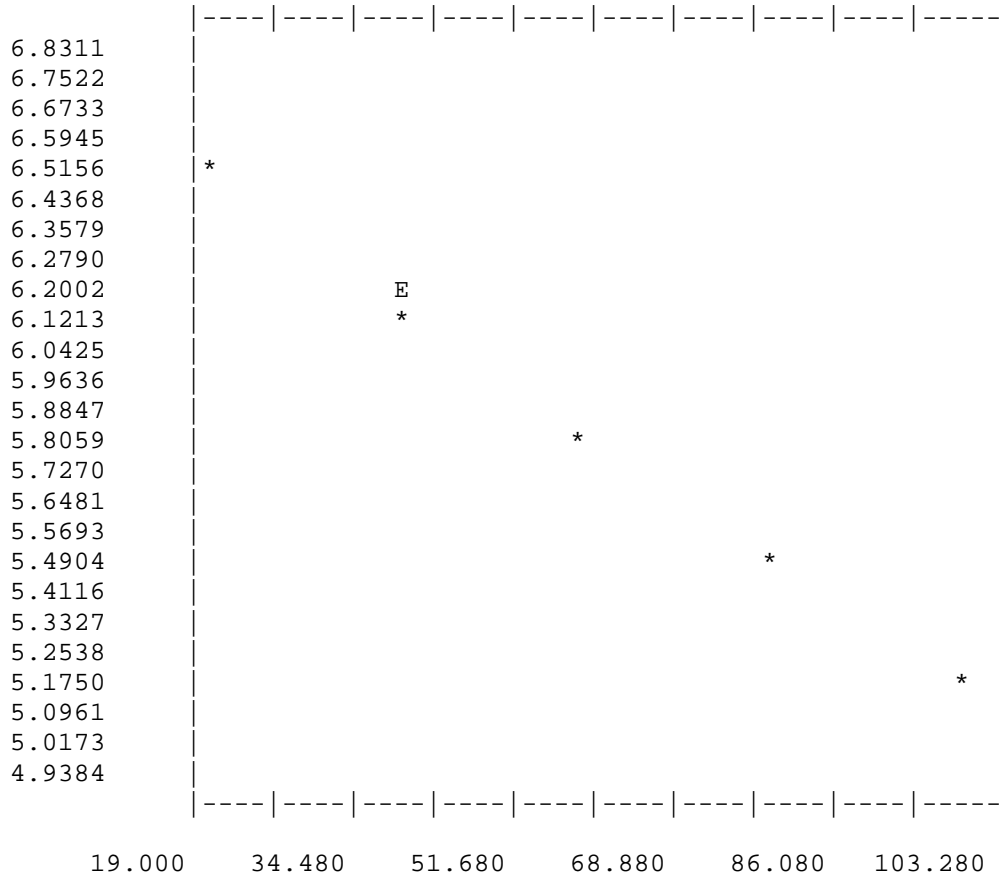
3.02

LIGHT PROFILE ANALYSES - FOR 3/ 1/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.81797	-0.01703	0.99894	0.99788
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	668.	6.50578	6.47744
2	40.	445.	6.10032	6.13690
3	60.	329.	5.79909	5.79637
4	80.	231.	5.44674	5.45583
5	100.	168.	5.12990	5.11530



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.28

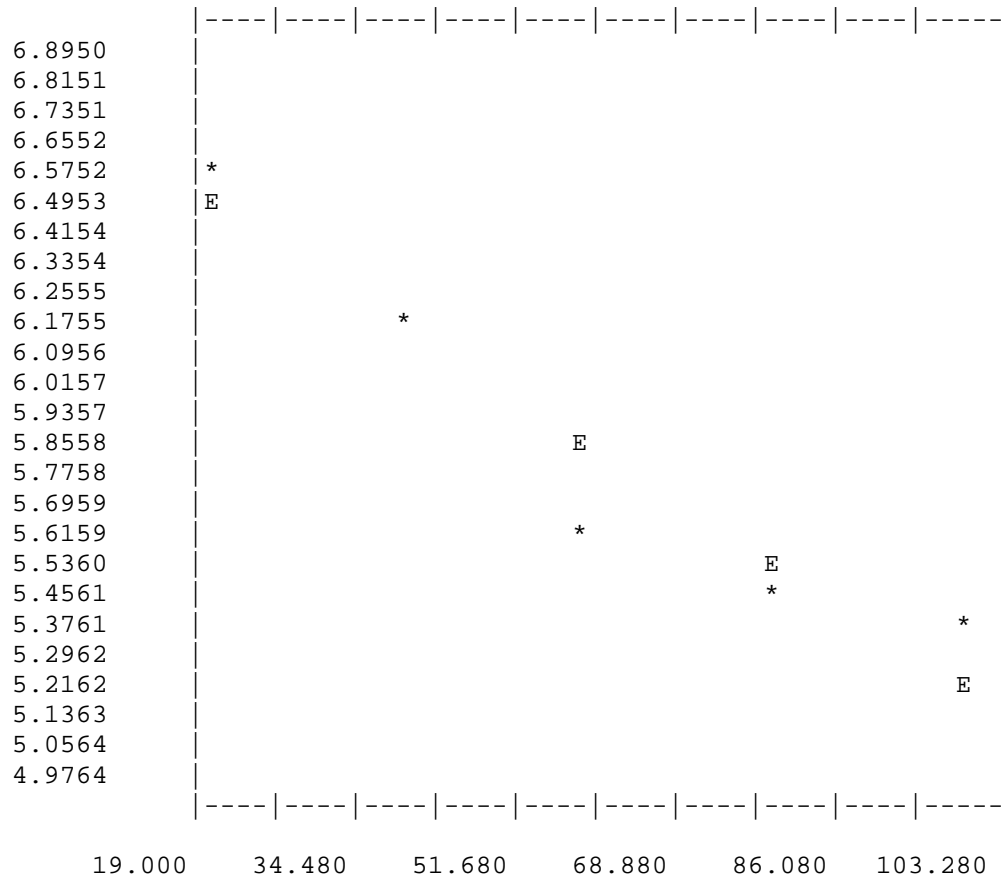
3.61

LIGHT PROFILE ANALYSES - FOR 3/ 1/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.77678	-0.01623	0.96237	0.92616
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	710.	6.56667	6.45226
2	40.	461.	6.13556	6.12774
3	60.	269.	5.59842	5.80322
4	80.	222.	5.40717	5.47870
5	100.	201.	5.30827	5.15418



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.22

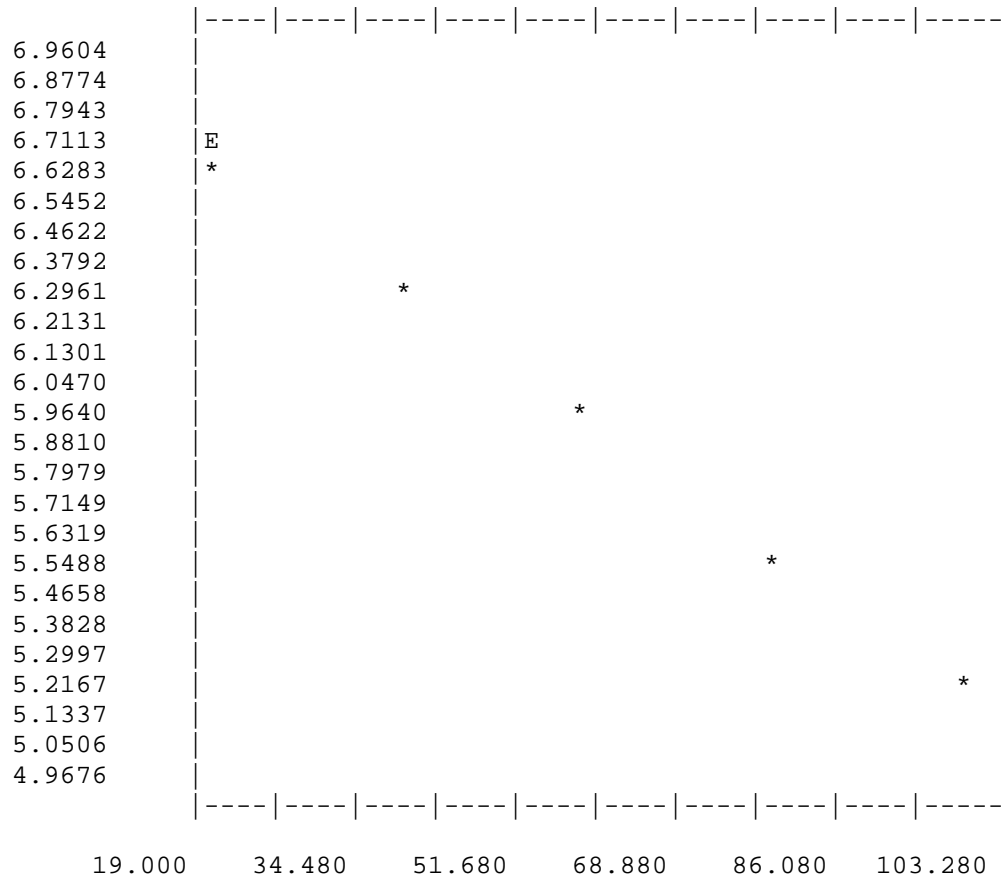
3.78

LIGHT PROFILE ANALYSES - FOR 4/ 3/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.99665	-0.01839	0.99824	0.99648
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	751.	6.62274	6.62894
2	40.	508.	6.23245	6.26122
3	60.	384.	5.95324	5.89351
4	80.	248.	5.51745	5.52579
5	100.	170.	5.14166	5.15808



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.38

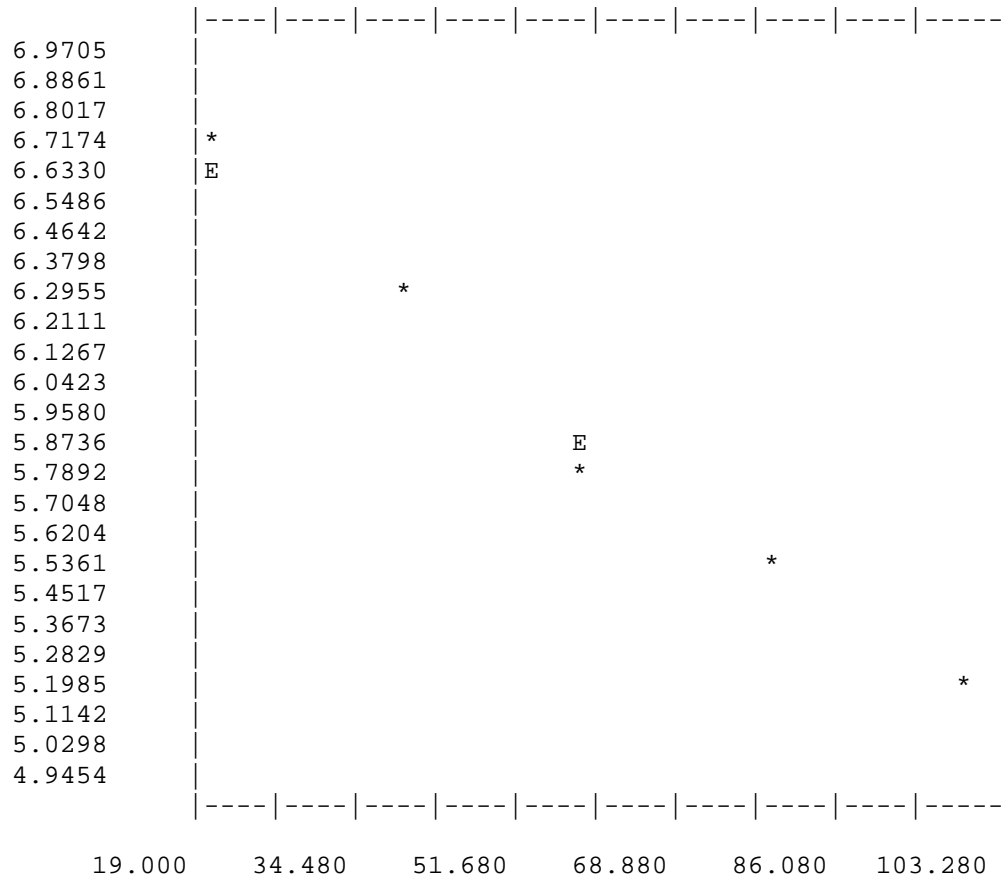
3.34

LIGHT PROFILE ANALYSES - FOR 4/ 3/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.96981	-0.01853	0.99577	0.99155
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	763.	6.63857	6.59922
2	40.	510.	6.23637	6.22863
3	60.	324.	5.78383	5.85805
4	80.	233.	5.45532	5.48746
5	100.	176.	5.17615	5.11687



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.39

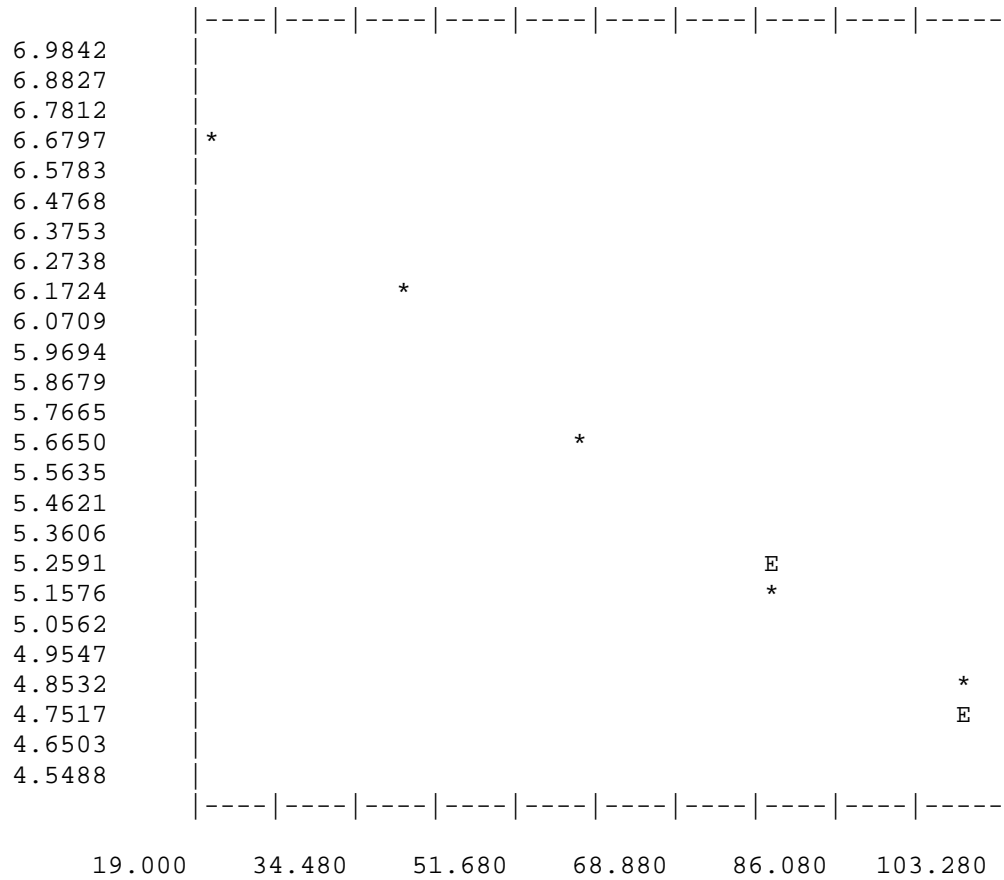
3.31

LIGHT PROFILE ANALYSES - FOR 4/ 3/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.09728	-0.02416	0.99569	0.99139
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	773.	6.65157	6.61410
2	40.	449.	6.10925	6.13092
3	60.	286.	5.65948	5.64774
4	80.	156.	5.05625	5.16456
5	100.	116.	4.76217	4.68139



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.81

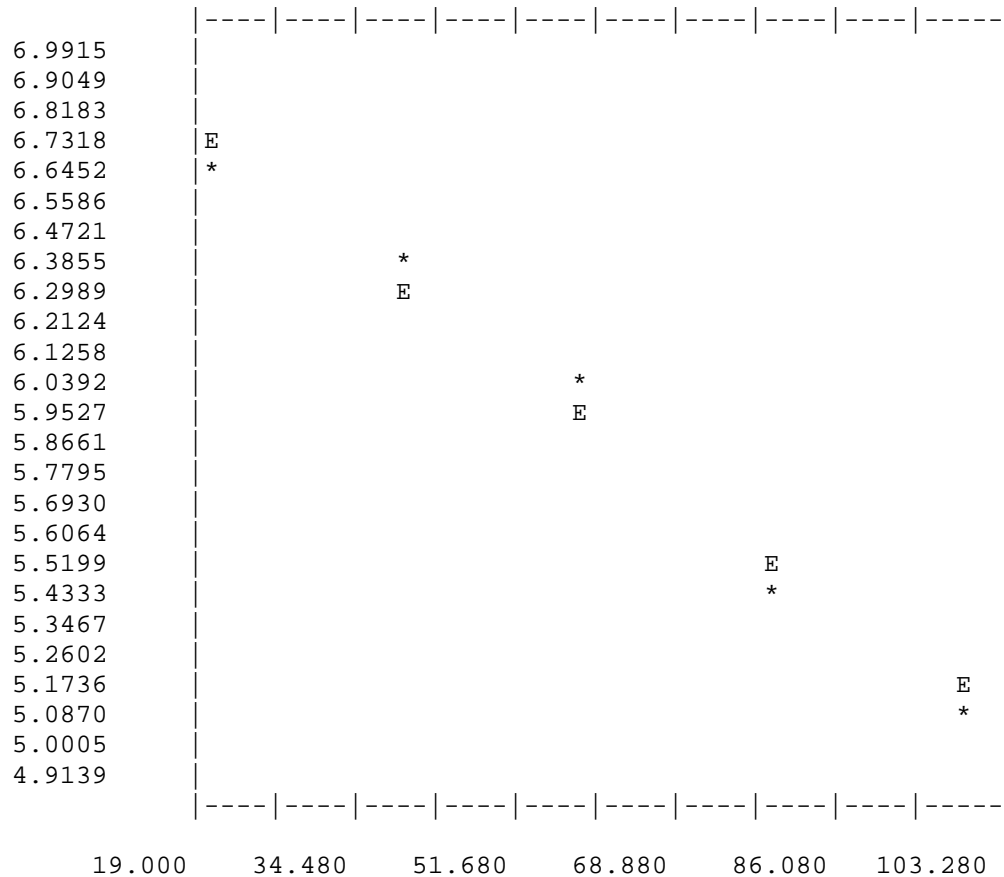
2.54

LIGHT PROFILE ANALYSES - FOR 4/ 3/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.04958	-0.01955	0.99161	0.98329
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	723.	6.58479	6.65853
2	40.	552.	6.31536	6.26748
3	60.	398.	5.98896	5.87643
4	80.	223.	5.41165	5.48538
5	100.	160.	5.08140	5.09433



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.47

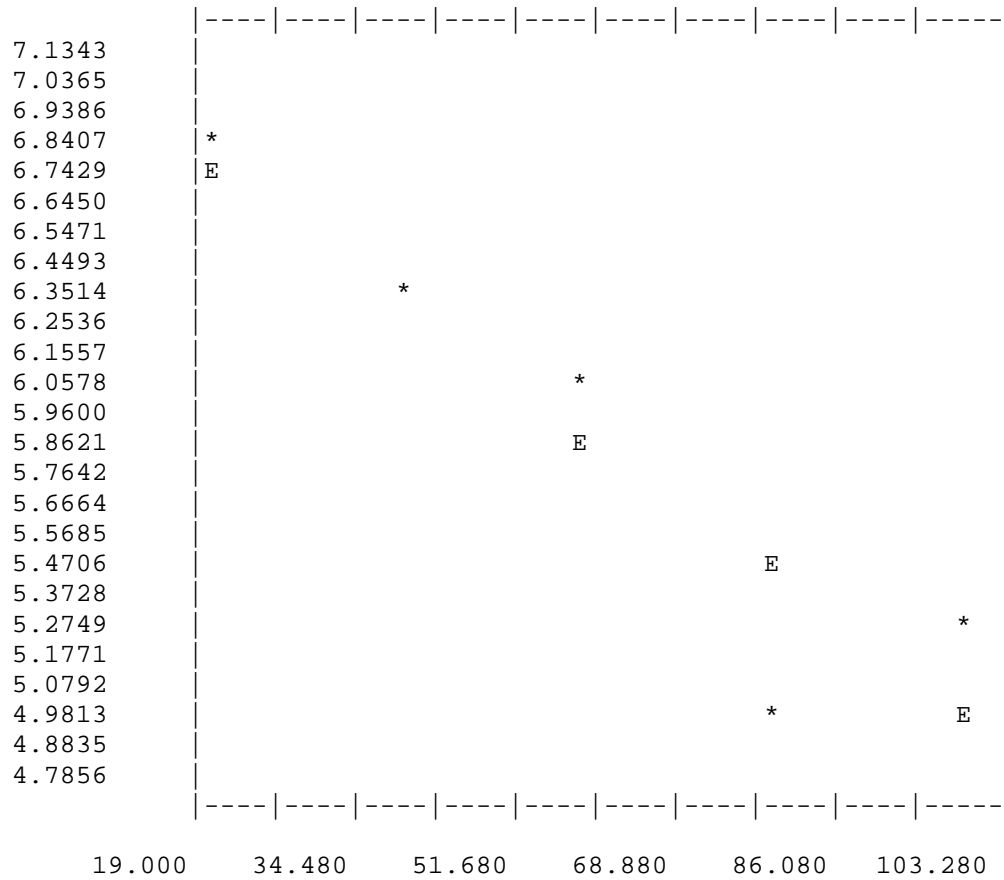
3.14

LIGHT PROFILE ANALYSES - FOR 4/ 3/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.18448	-0.02225	0.92596	0.85741
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	892.	6.79459	6.73957
2	40.	526.	6.26720	6.29467
3	60.	409.	6.01616	5.84977
4	80.	138.	4.93447	5.40487
5	100.	187.	5.23644	4.95997



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.67

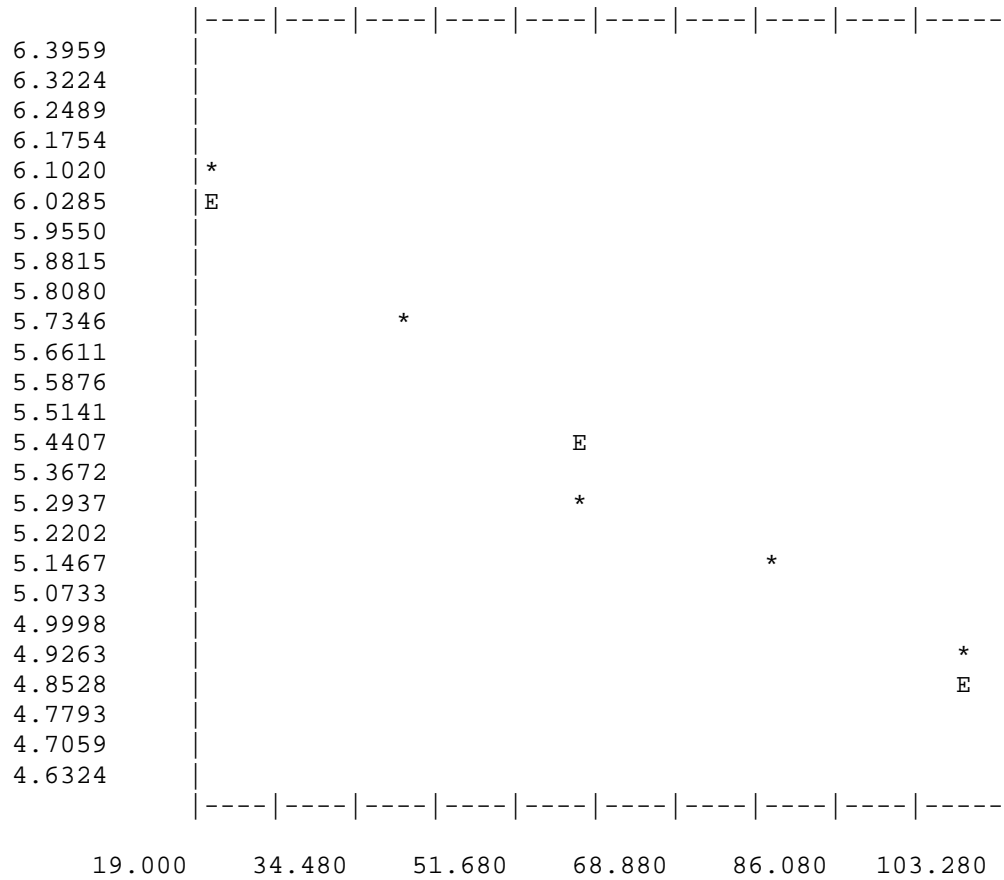
2.76

LIGHT PROFILE ANALYSES - FOR 5/10/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.31107	-0.01512	0.98559	0.97139
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	441.	6.09131	6.00862
2	40.	291.	5.67675	5.70618
3	60.	196.	5.28320	5.40373
4	80.	163.	5.09987	5.10129
5	100.	129.	4.86753	4.79884



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.13

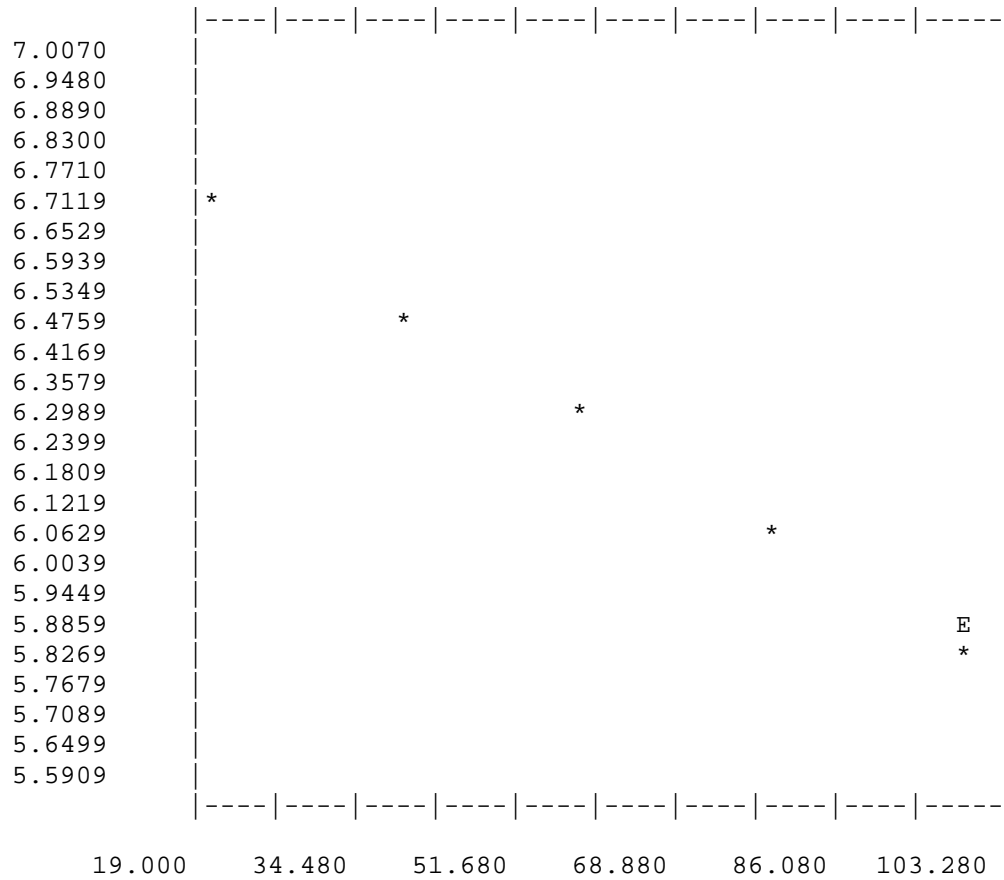
4.06

LIGHT PROFILE ANALYSES - FOR 5/10/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.87781	-0.01047	0.99947	0.99894
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	790.	6.67330	6.66839
2	40.	632.	6.45047	6.45897
3	60.	514.	6.24417	6.24955
4	80.	426.	6.05678	6.04013
5	100.	337.	5.82305	5.83071



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.79

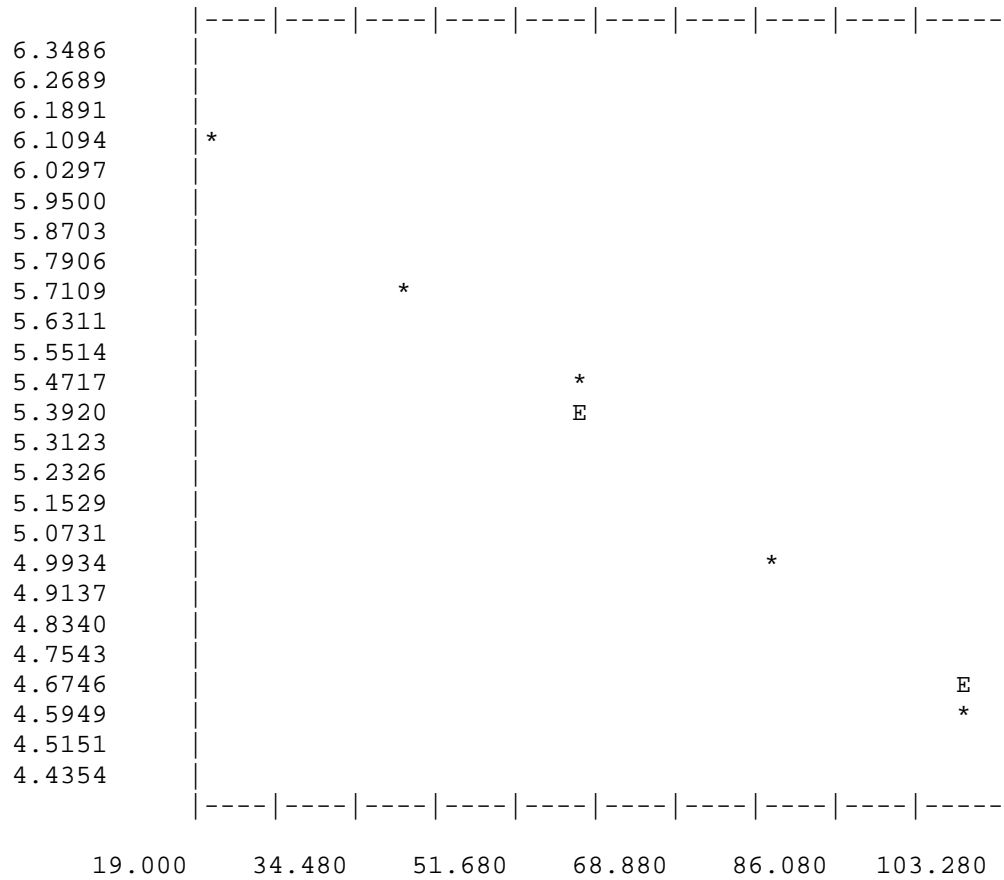
5.86

LIGHT PROFILE ANALYSES - FOR 5/10/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.40407	-0.01789	0.99598	0.99197
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	421.	6.04501	6.04625
2	40.	279.	5.63479	5.68844
3	60.	223.	5.41165	5.33063
4	80.	144.	4.97673	4.97282
5	100.	97.	4.58497	4.61500



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.34

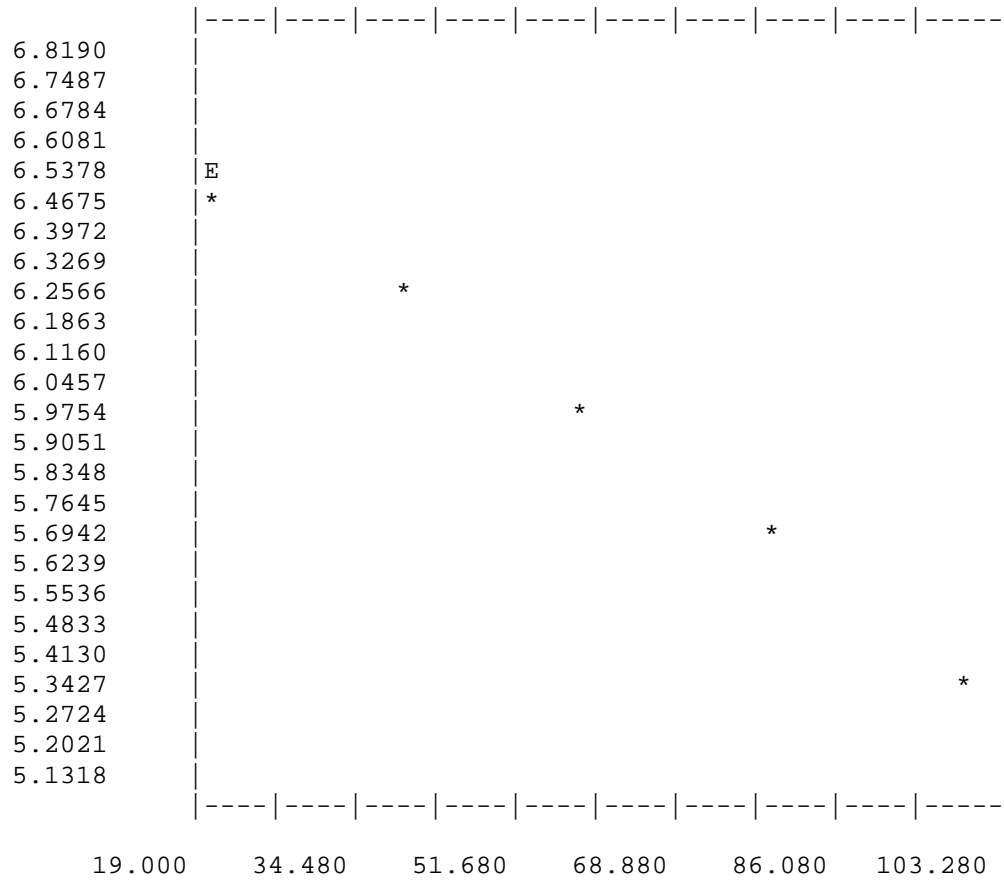
3.43

LIGHT PROFILE ANALYSES - FOR 5/10/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.78220	-0.01440	0.99853	0.99706
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	640.	6.46303	6.49430
2	40.	510.	6.23637	6.20639
3	60.	378.	5.93754	5.91849
4	80.	277.	5.62762	5.63058
5	100.	205.	5.32788	5.34267



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.08

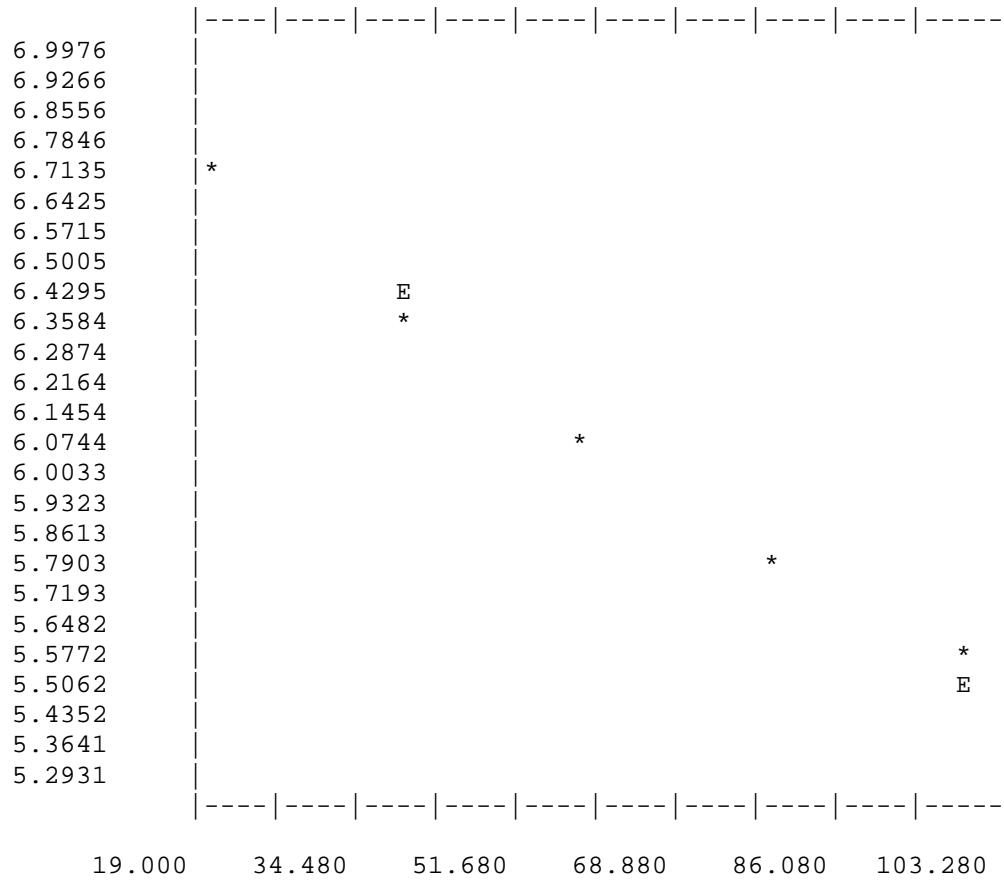
4.27

LIGHT PROFILE ANALYSES - FOR 5/10/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.93648	-0.01440	0.99928	0.99855
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	783.	6.66441	6.64857
2	40.	576.	6.35784	6.36067
3	60.	422.	6.04737	6.07276
4	80.	323.	5.78074	5.78485
5	100.	247.	5.51343	5.49695



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.08

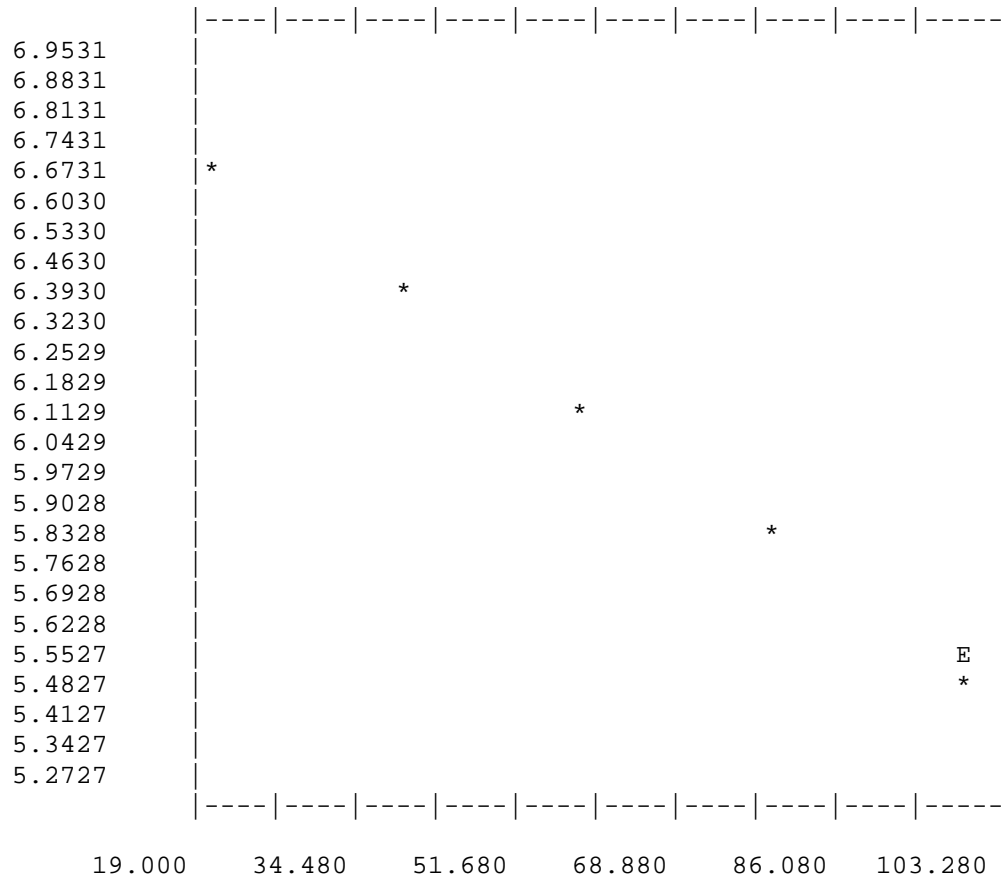
4.27

LIGHT PROFILE ANALYSES - FOR 6/ 7/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.90588	-0.01419	0.99927	0.99853
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	742.	6.61070	6.62205
2	40.	563.	6.33505	6.33821
3	60.	438.	6.08450	6.05438
4	80.	318.	5.76519	5.77055
5	100.	238.	5.47646	5.48672



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.06

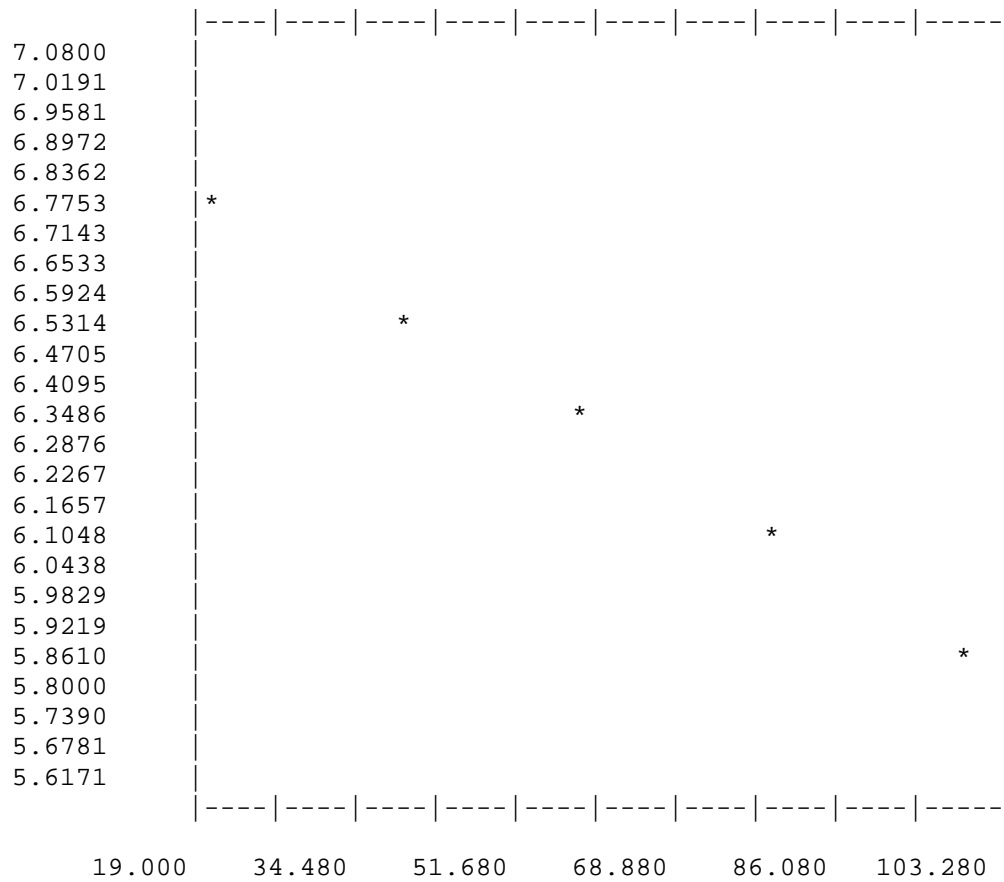
4.33

LIGHT PROFILE ANALYSES - FOR 6/ 7/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.94929	-0.01101	0.99946	0.99893
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	847.	6.74288	6.72915
2	40.	658.	6.49072	6.50902
3	60.	537.	6.28786	6.28888
4	80.	432.	6.07074	6.06875
5	100.	347.	5.85220	5.84861



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.83

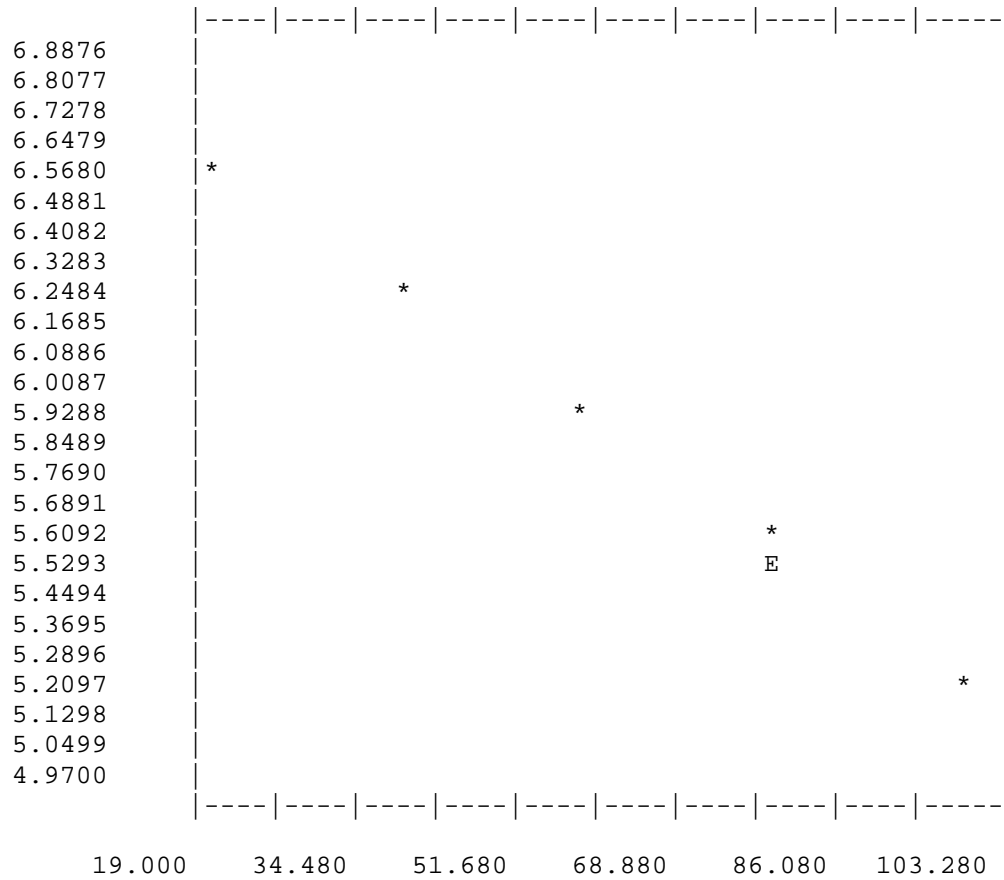
5.58

LIGHT PROFILE ANALYSES - FOR 6/ 7/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.89832	-0.01739	0.99949	0.99898
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	705.	6.55962	6.55062
2	40.	485.	6.18621	6.20291
3	60.	346.	5.84932	5.85521
4	80.	252.	5.53339	5.50750
5	100.	171.	5.14749	5.15979



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.30

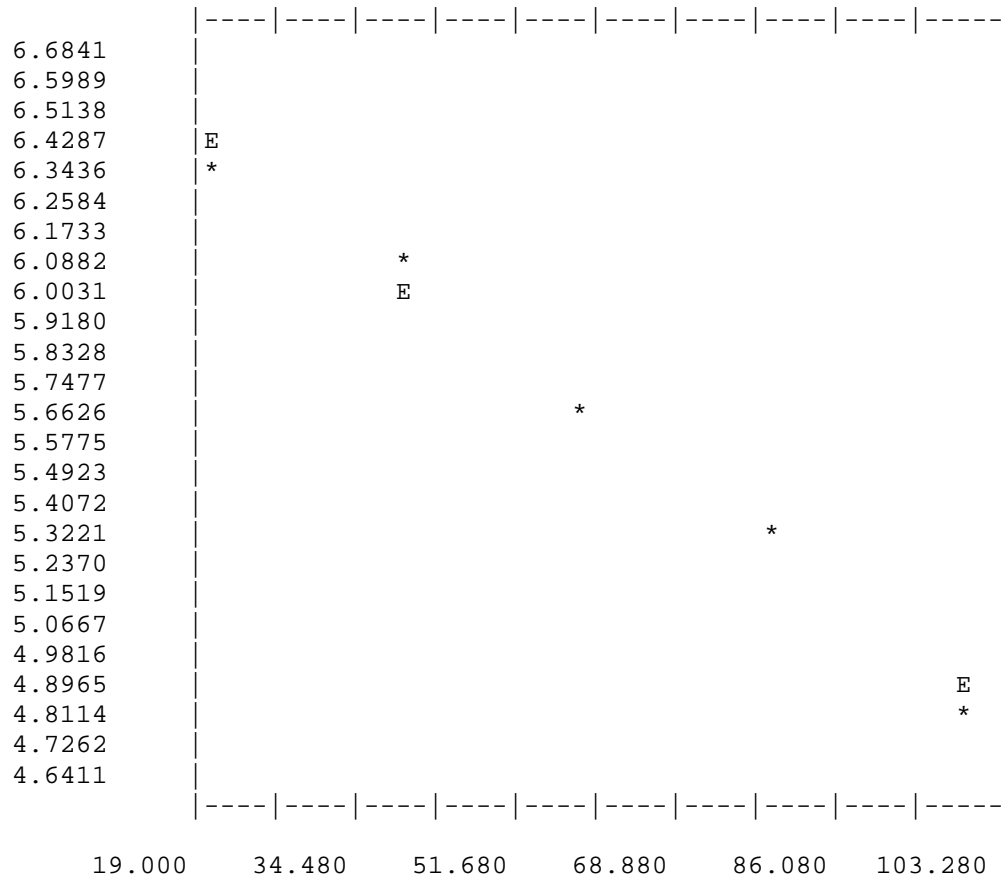
3.53

LIGHT PROFILE ANALYSES - FOR 6/ 7/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.73771	-0.01860	0.99233	0.98471
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	538.	6.28972	6.36576
2	40.	423.	6.04973	5.99382
3	60.	285.	5.65599	5.62187
4	80.	203.	5.31812	5.24992
5	100.	120.	4.79579	4.87798



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.39

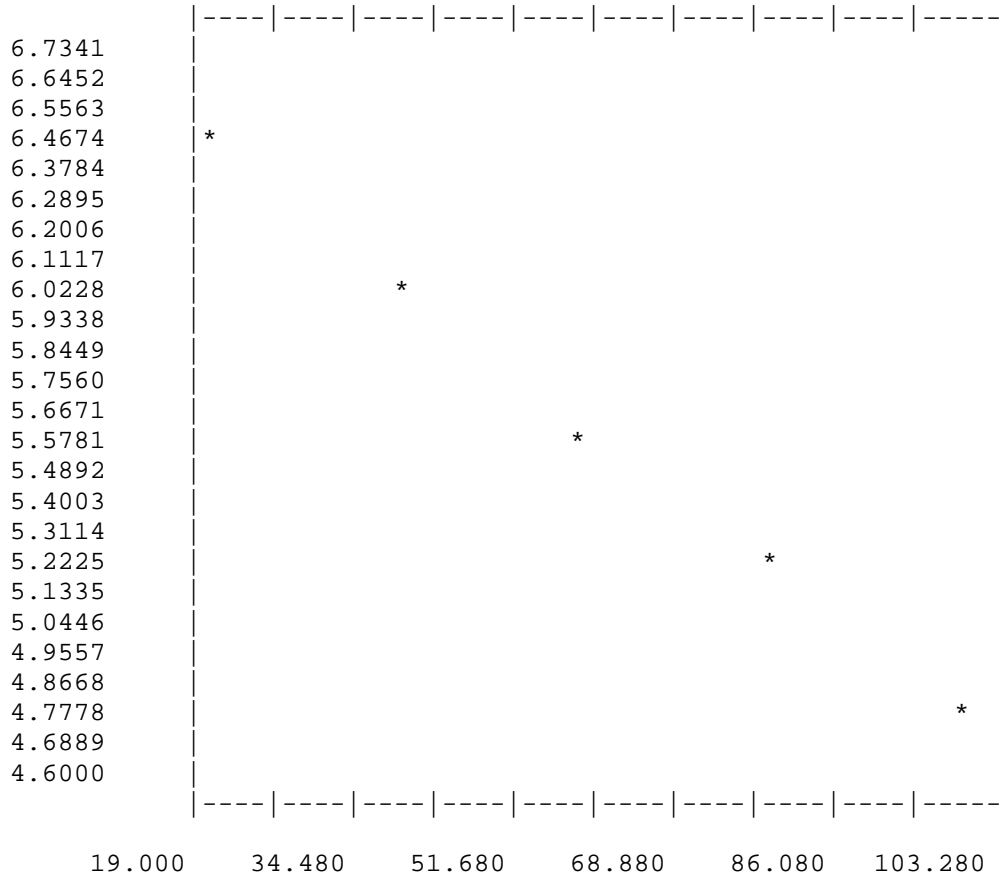
3.30

LIGHT PROFILE ANALYSES - FOR 6/ 7/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.80408	-0.02056	0.99939	0.99879
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	609.	6.41346	6.39296
2	40.	394.	5.97889	5.98185
3	60.	253.	5.53733	5.57073
4	80.	172.	5.15329	5.15962
5	100.	117.	4.77068	4.74850



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.54

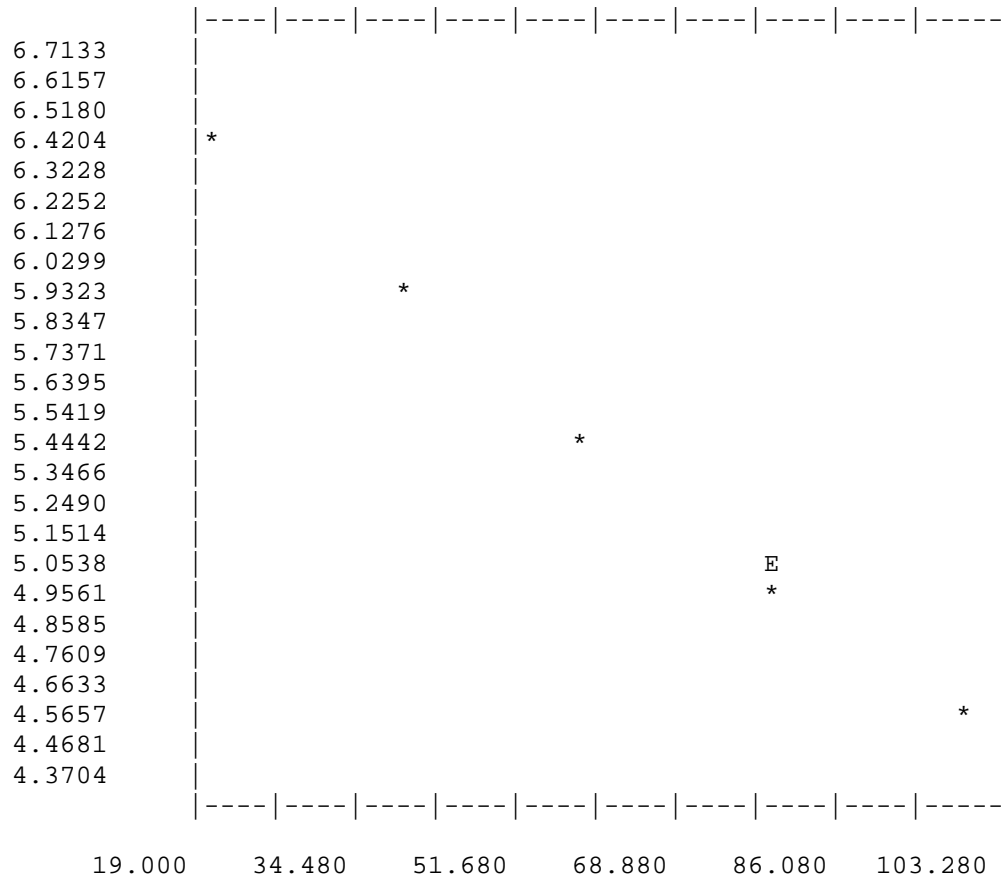
2.99

LIGHT PROFILE ANALYSES - FOR 7/10/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.79846	-0.02301	0.99749	0.99499
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	597.	6.39359	6.33830
2	40.	346.	5.84932	5.87815
3	60.	213.	5.36598	5.41800
4	80.	137.	4.92725	4.95785
5	100.	94.	4.55388	4.49770



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.73

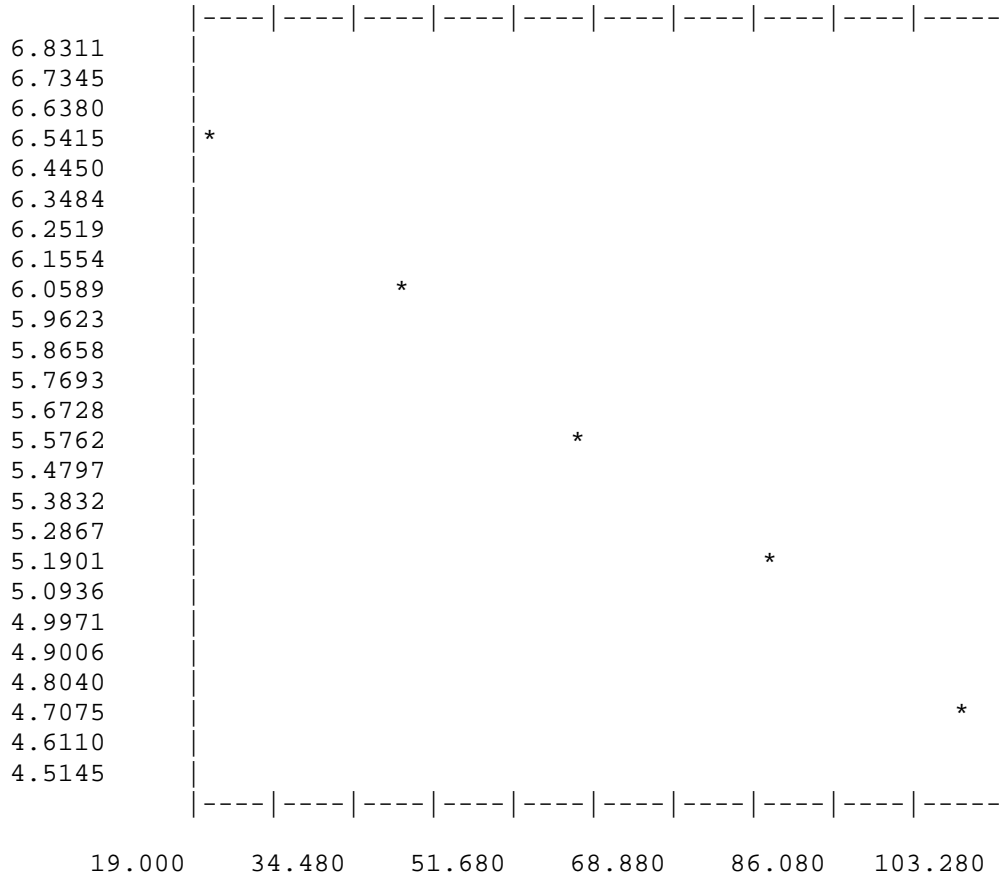
2.67

LIGHT PROFILE ANALYSES - FOR 7/10/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.92801	-0.02278	0.99837	0.99674
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	668.	6.50578	6.47250
2	40.	402.	5.99894	6.01700
3	60.	244.	5.50126	5.56149
4	80.	171.	5.14749	5.10598
5	100.	104.	4.65396	4.65047



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.71

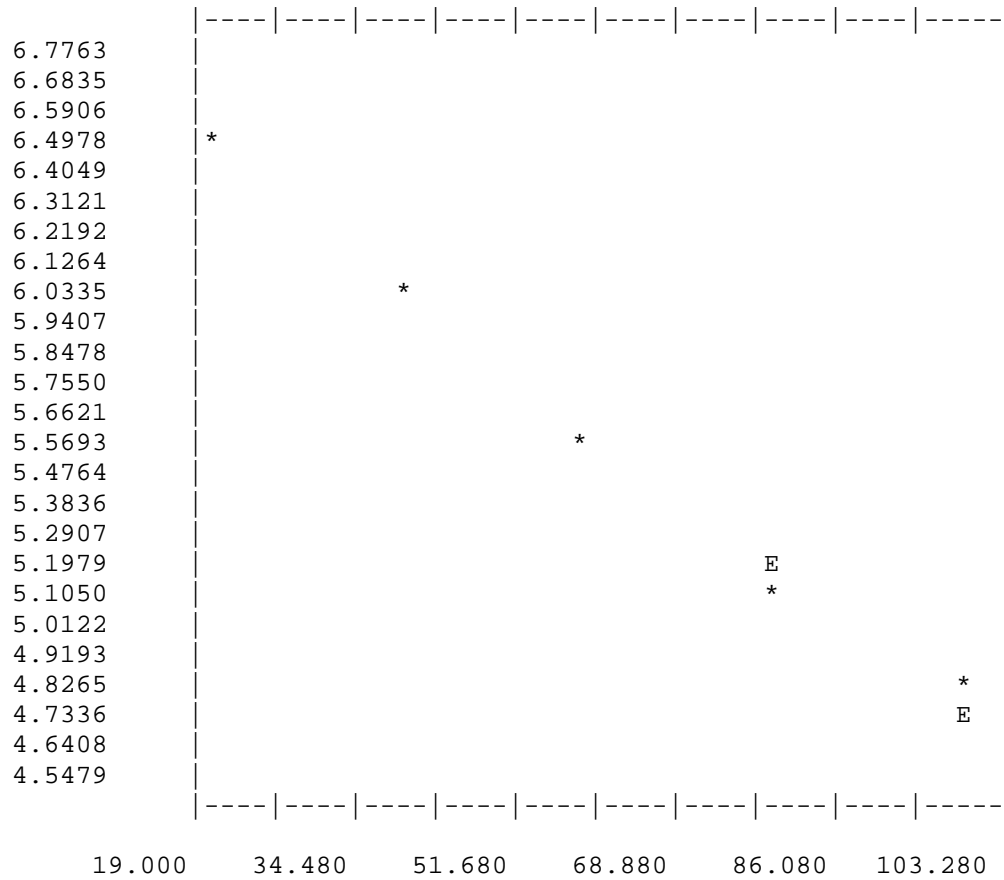
2.70

LIGHT PROFILE ANALYSES - FOR 7/10/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.86022	-0.02171	0.99791	0.99582
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	634.	6.45363	6.42609
2	40.	405.	6.00635	5.99195
3	60.	242.	5.49306	5.55782
4	80.	163.	5.09987	5.12369
5	100.	113.	4.73620	4.68955



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.63

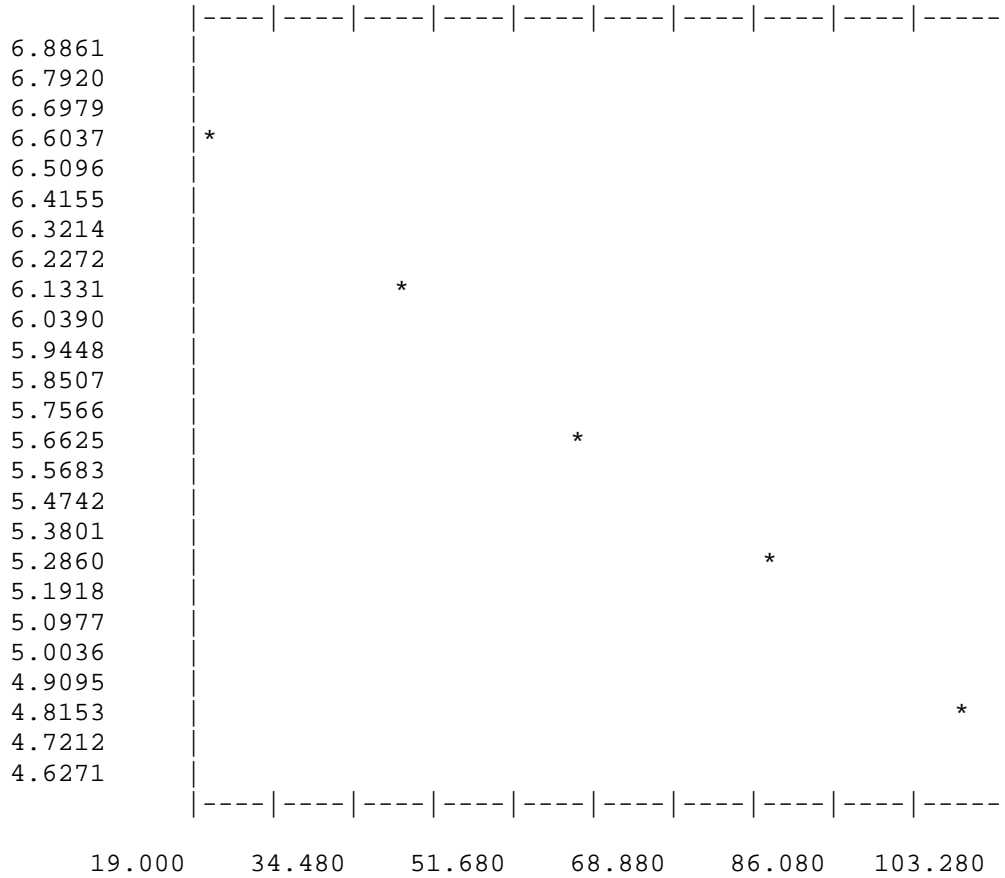
2.83

LIGHT PROFILE ANALYSES - FOR 7/10/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.94931	-0.02178	0.99865	0.99731
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	704.	6.55820	6.51376
2	40.	419.	6.04025	6.07820
3	60.	272.	5.60947	5.64264
4	80.	182.	5.20949	5.20708
5	100.	120.	4.79579	4.77152



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.63

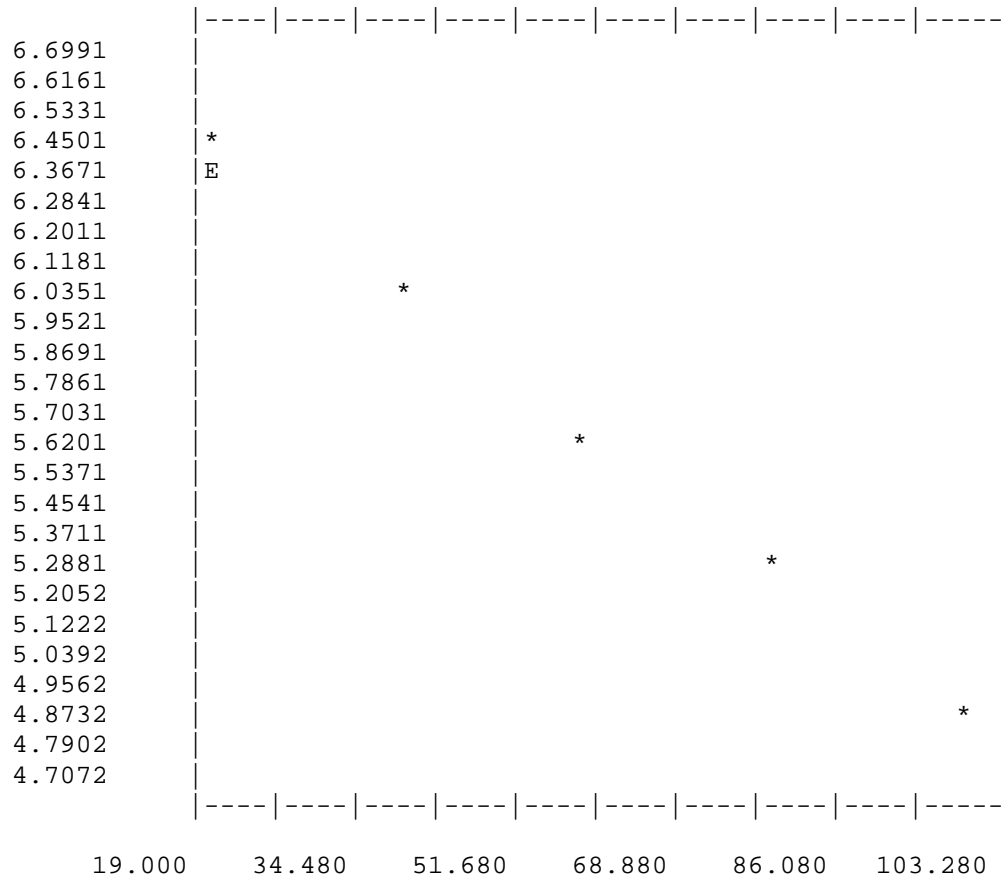
2.82

LIGHT PROFILE ANALYSES - FOR 7/10/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.73162	-0.01863	0.99846	0.99692
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	589.	6.38012	6.35903
2	40.	394.	5.97889	5.98643
3	60.	260.	5.56452	5.61384
4	80.	195.	5.27811	5.24124
5	100.	129.	4.86753	4.86865



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

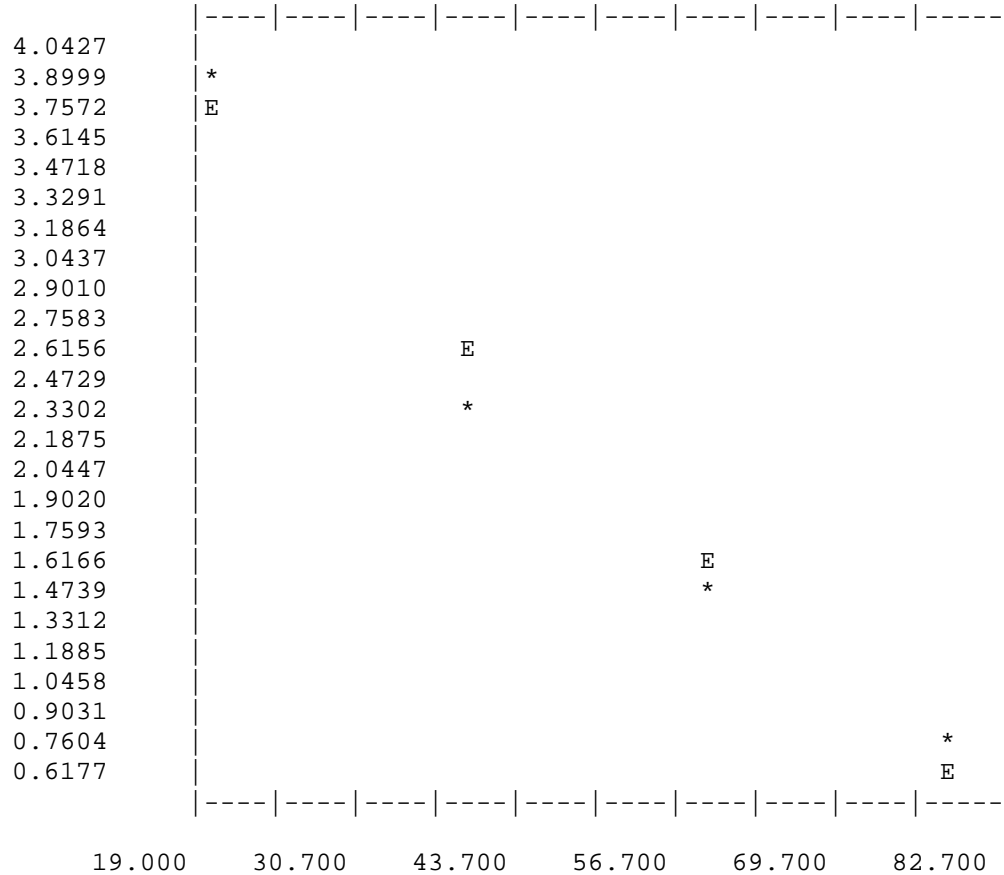
3.30

LIGHT PROFILE ANALYSES - FOR 8/ 9/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.65487	-0.05194	0.98277	0.96583
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	46.	3.85015	3.61614
2	40.	9.	2.30259	2.57741
3	60.	3.	1.38629	1.53868
4	80.	1.	0.69315	0.49995



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.90

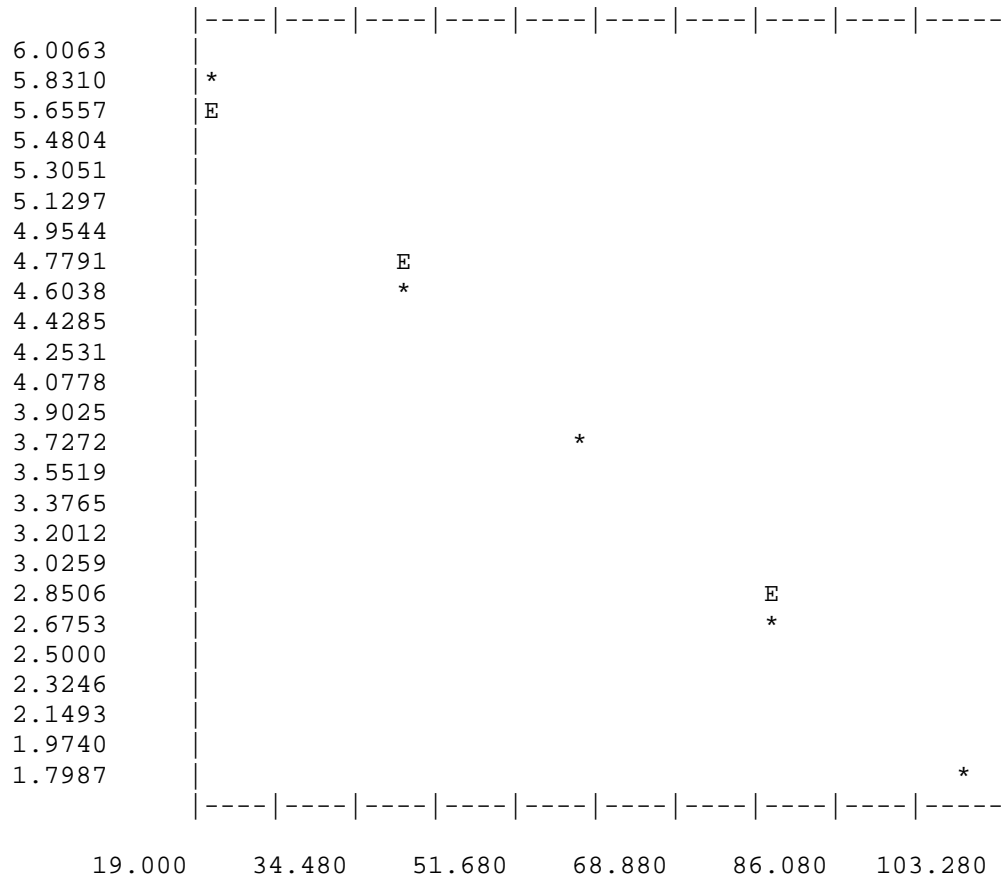
1.18

LIGHT PROFILE ANALYSES - FOR 8/ 9/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.61031	-0.04902	0.99869	0.99739
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	304.	5.72031	5.63000
2	40.	97.	4.58497	4.64970
3	60.	36.	3.61092	3.66940
4	80.	13.	2.63906	2.68910
5	100.	5.	1.79176	1.70880



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.68

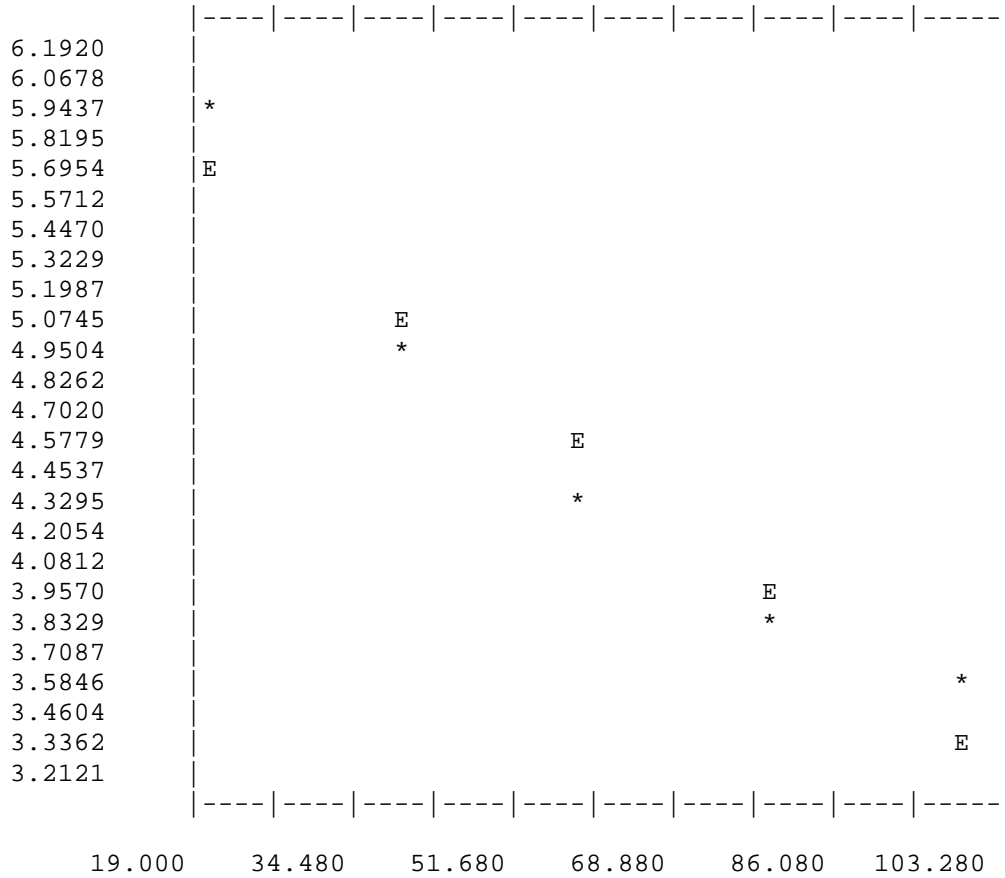
1.25

LIGHT PROFILE ANALYSES - FOR 8/ 9/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.28737	-0.03037	0.97914	0.95872
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	363.	5.89715	5.67998
2	40.	140.	4.94876	5.07259
3	60.	71.	4.27667	4.46520
4	80.	41.	3.73767	3.85780
5	100.	31.	3.46574	3.25041



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.28

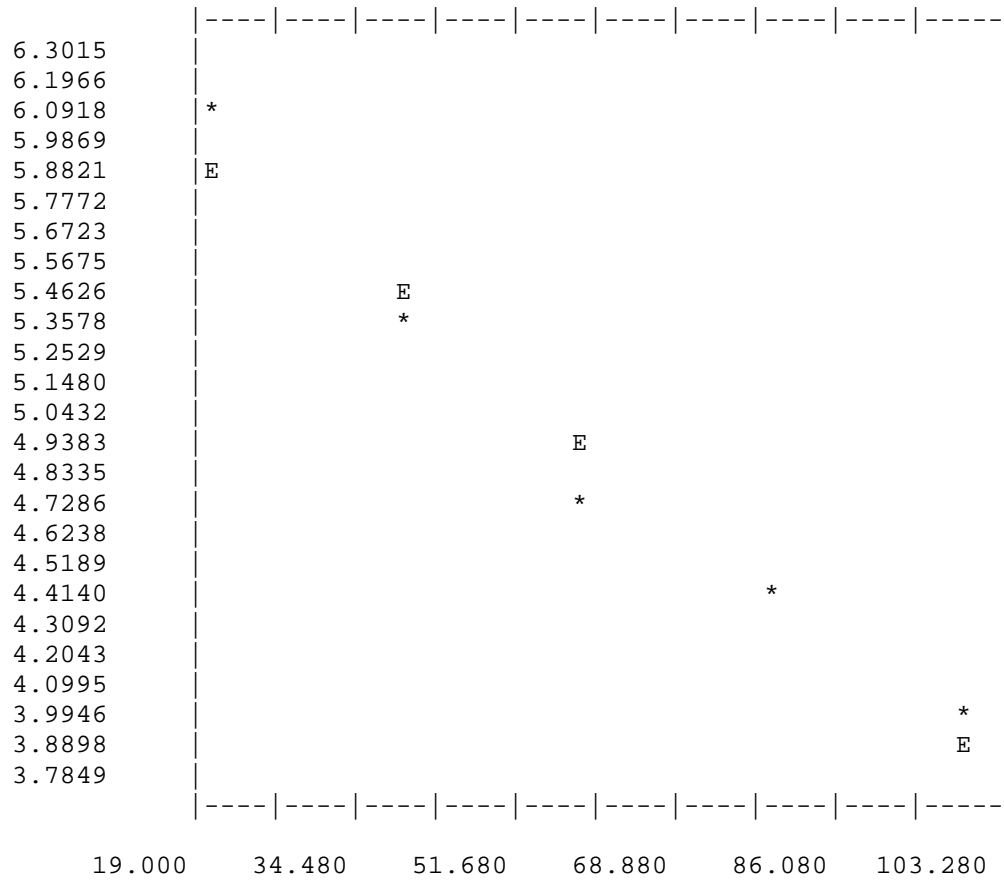
2.02

LIGHT PROFILE ANALYSES - FOR 8/ 9/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.36060	-0.02487	0.98903	0.97819
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	403.	6.00141	5.86322
2	40.	193.	5.26786	5.36585
3	60.	112.	4.72739	4.86847
4	80.	80.	4.39445	4.37110
5	100.	51.	3.95124	3.87372



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.87

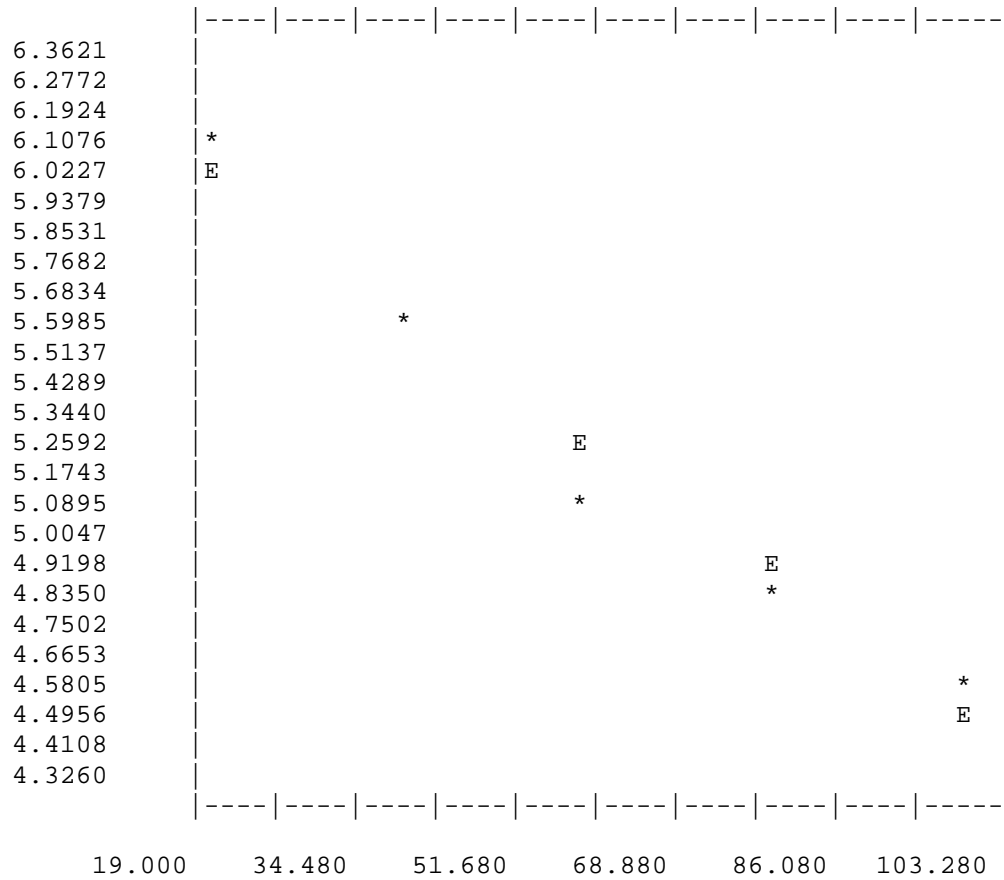
2.47

LIGHT PROFILE ANALYSES - FOR 8/ 9/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.31816	-0.01854	0.98448	0.96920
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	427.	6.05912	5.94740
2	40.	250.	5.52545	5.57664
3	60.	157.	5.06259	5.20587
4	80.	124.	4.82831	4.83511
5	100.	94.	4.55388	4.46435



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.39

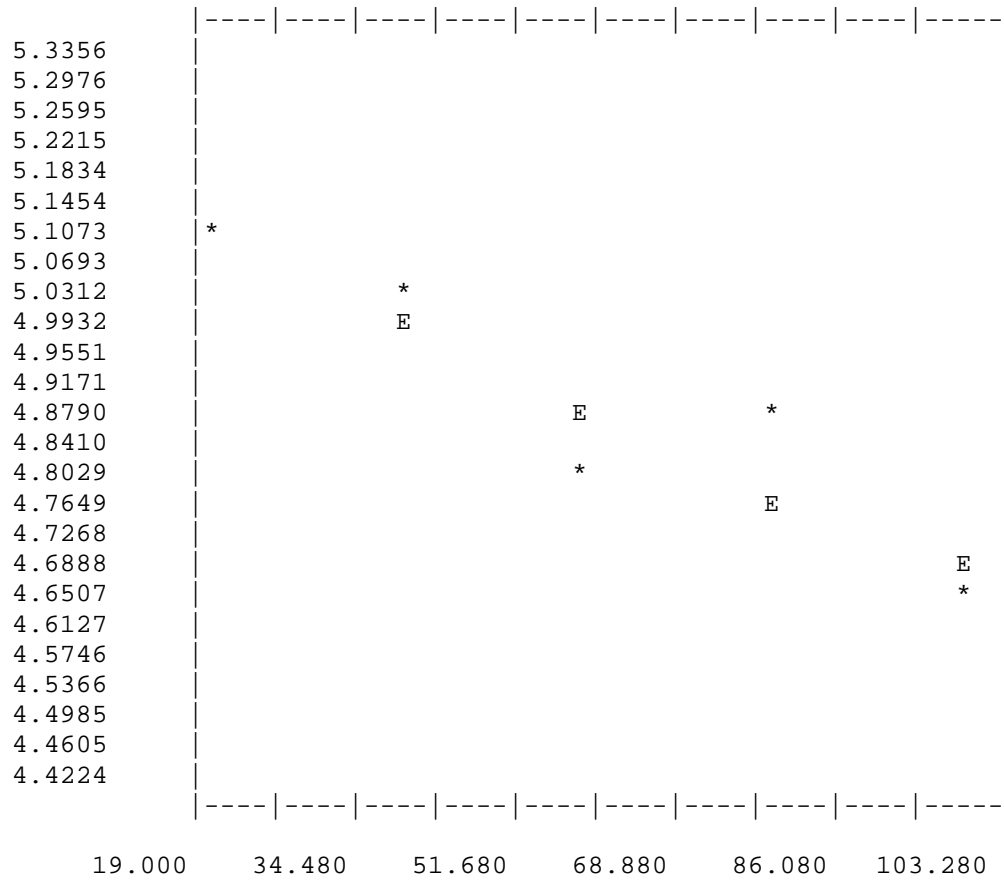
3.31

LIGHT PROFILE ANALYSES - FOR 9/13/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.18843	-0.00534	0.91178	0.83135
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	160.	5.08140	5.08153
2	40.	148.	5.00395	4.97464
3	60.	117.	4.77068	4.86774
4	80.	129.	4.86753	4.76084
5	100.	100.	4.61512	4.65394



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.40

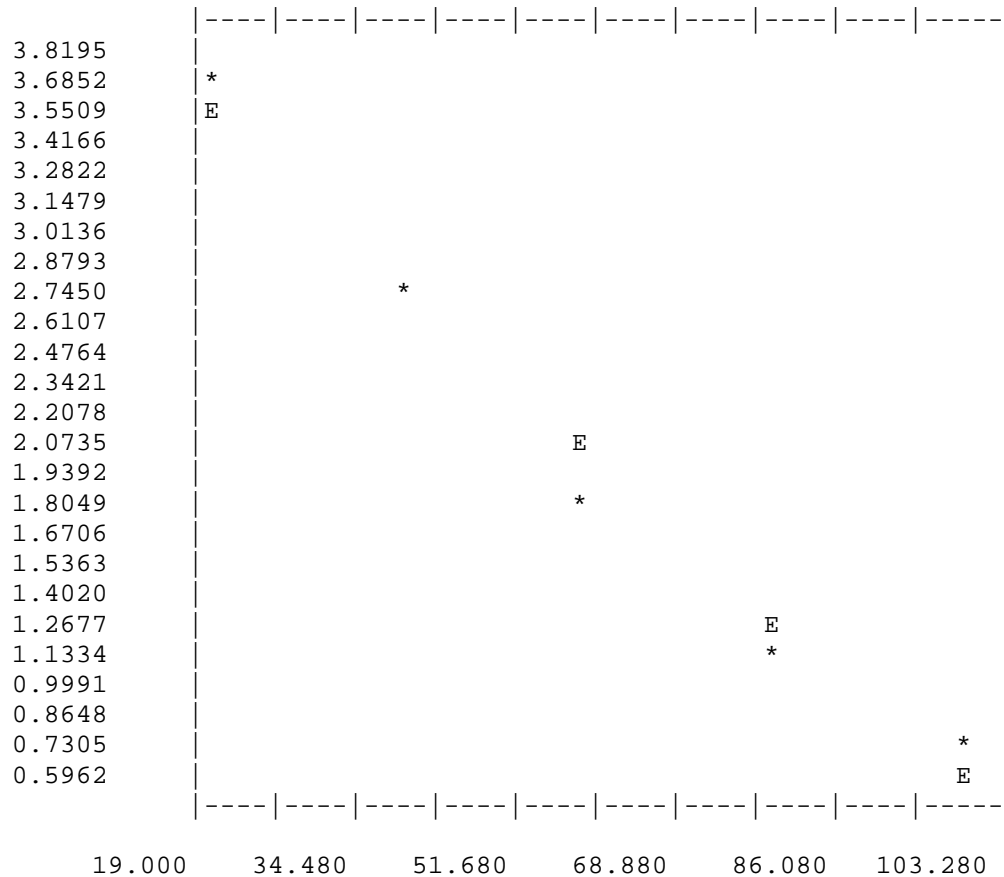
11.49

LIGHT PROFILE ANALYSES - FOR 9/13/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.20083	-0.03715	0.98839	0.97692
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	37.	3.63759	3.45790
2	40.	13.	2.63906	2.71496
3	60.	5.	1.79176	1.97203
4	80.	2.	1.09861	1.22910
5	100.	1.	0.69315	0.48617



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.79

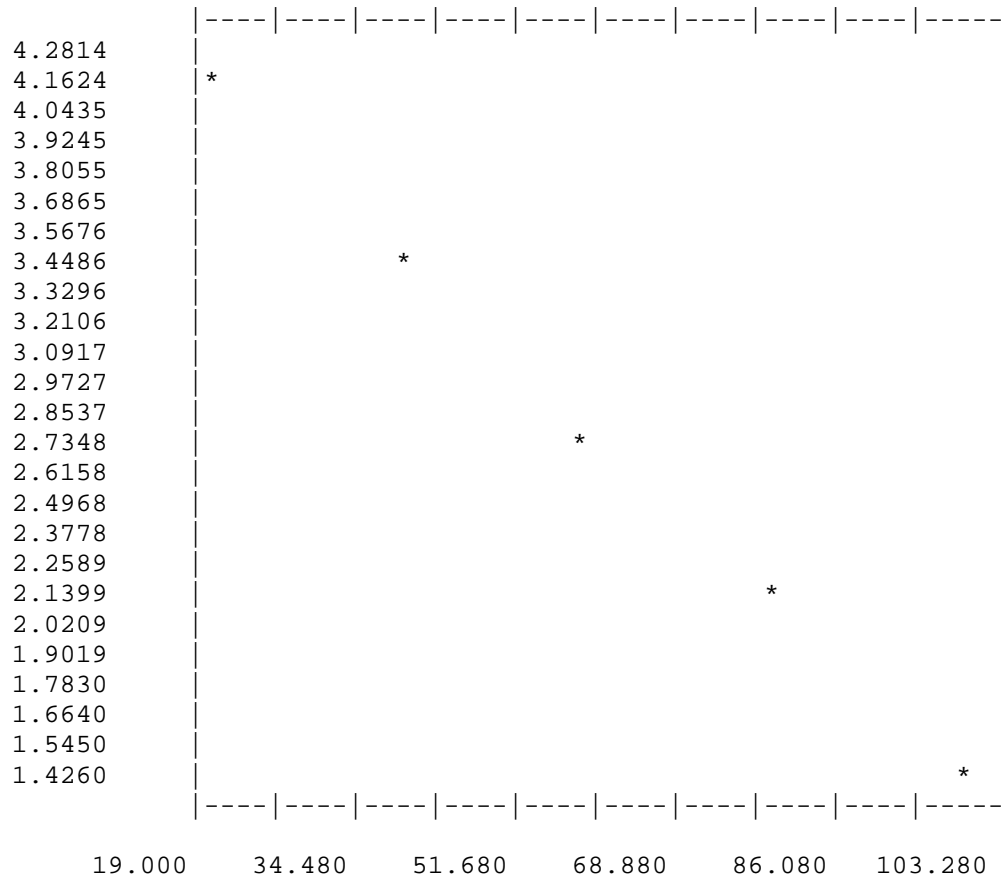
1.65

LIGHT PROFILE ANALYSES - FOR 9/13/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.74437	-0.03369	0.99895	0.99791
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	58.	4.07754	4.07067
2	40.	30.	3.43399	3.39697
3	60.	13.	2.63906	2.72326
4	80.	7.	2.07944	2.04956
5	100.	3.	1.38629	1.37586



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.53

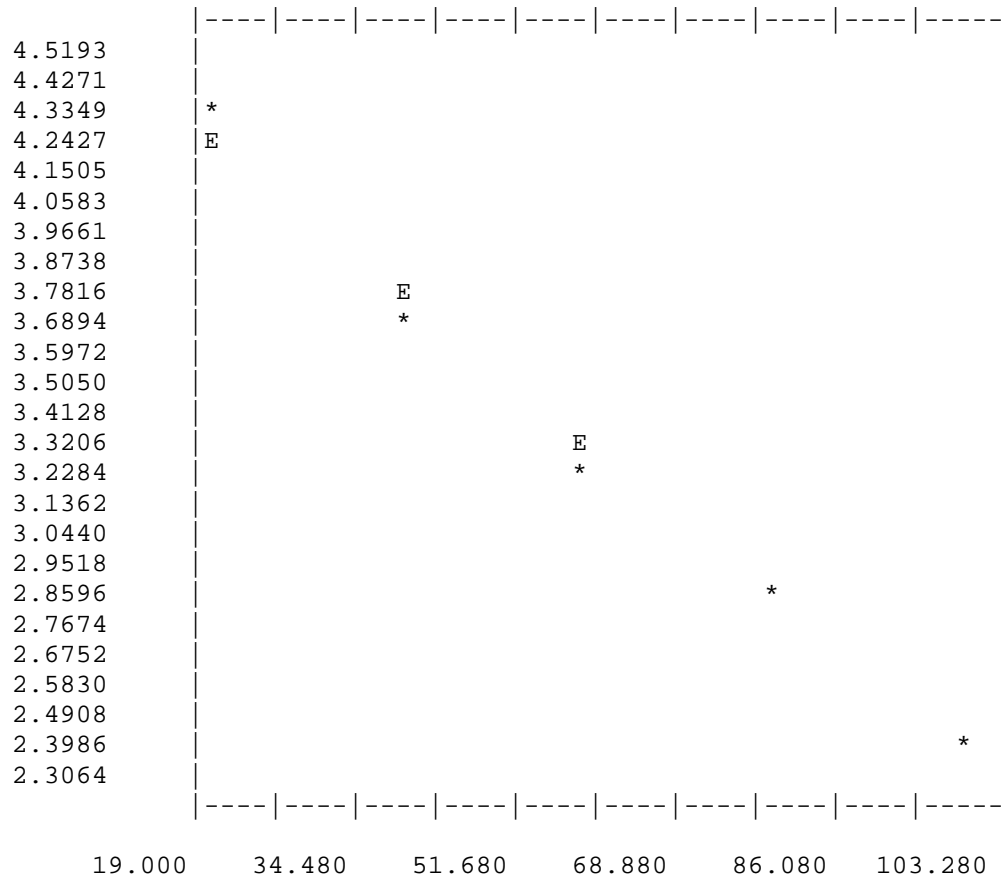
1.82

LIGHT PROFILE ANALYSES - FOR 9/13/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.69505	-0.02364	0.99575	0.99151
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	73.	4.30407	4.22219
2	40.	39.	3.68888	3.74932
3	60.	24.	3.21888	3.27646
4	80.	15.	2.77259	2.80360
5	100.	10.	2.39790	2.33073



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.77

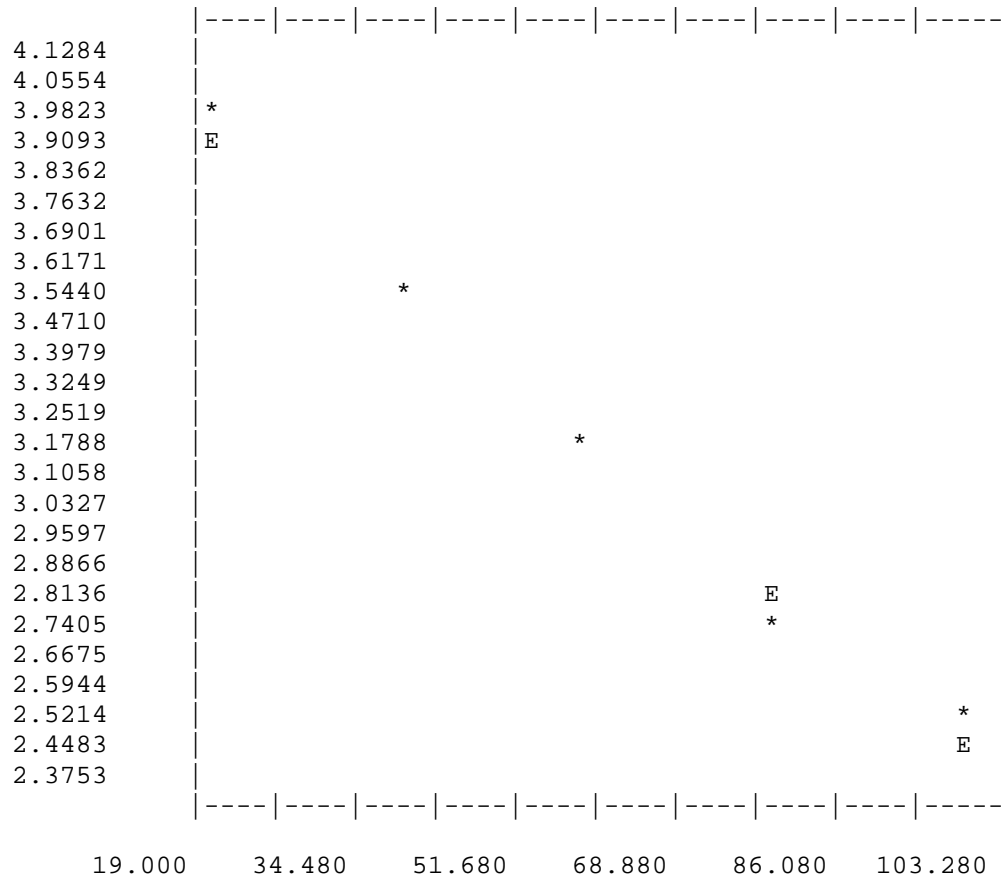
2.60

LIGHT PROFILE ANALYSES - FOR 9/13/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.26456	-0.01841	0.99511	0.99025
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	50.	3.93183	3.89633
2	40.	32.	3.49651	3.52810
3	60.	23.	3.17805	3.15987
4	80.	14.	2.70805	2.79164
5	100.	11.	2.48491	2.42341



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.38

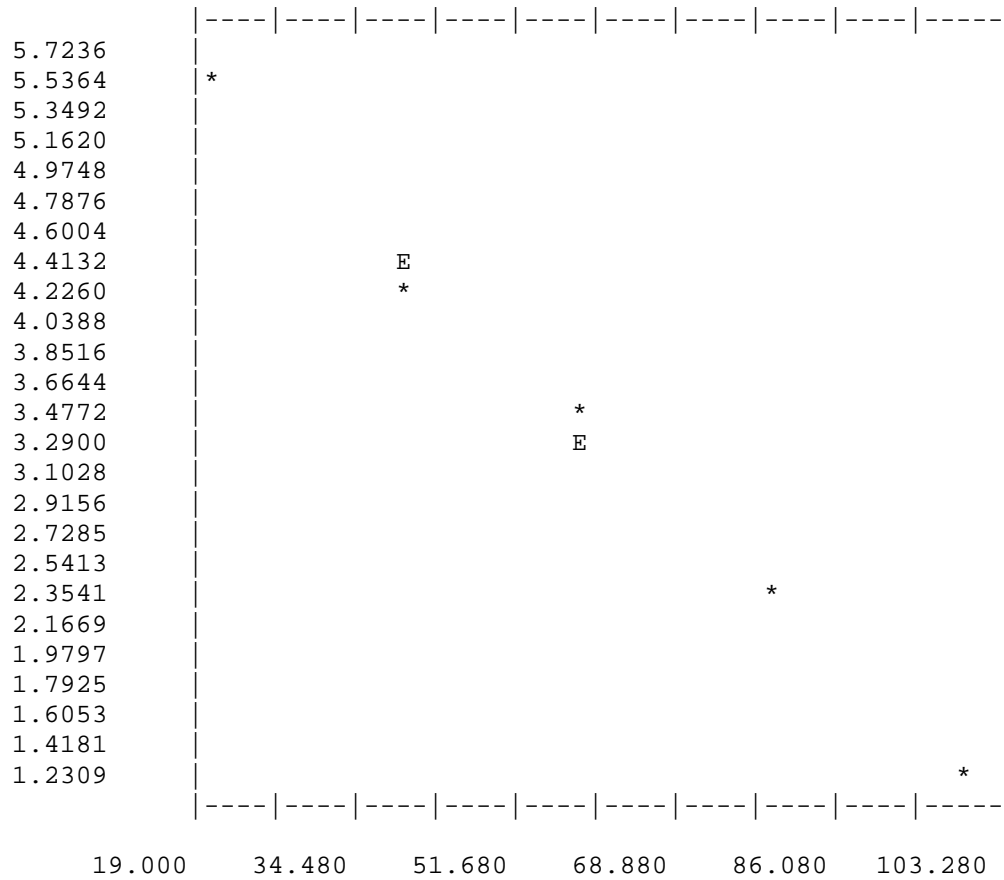
3.33

LIGHT PROFILE ANALYSES - FOR 10/10/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.44027	-0.05333	0.99861	0.99723
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	232.	5.45104	5.37362
2	40.	63.	4.15888	4.30697
3	60.	26.	3.29584	3.24032
4	80.	8.	2.19722	2.17367
5	100.	2.	1.09861	1.10702



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

4.00

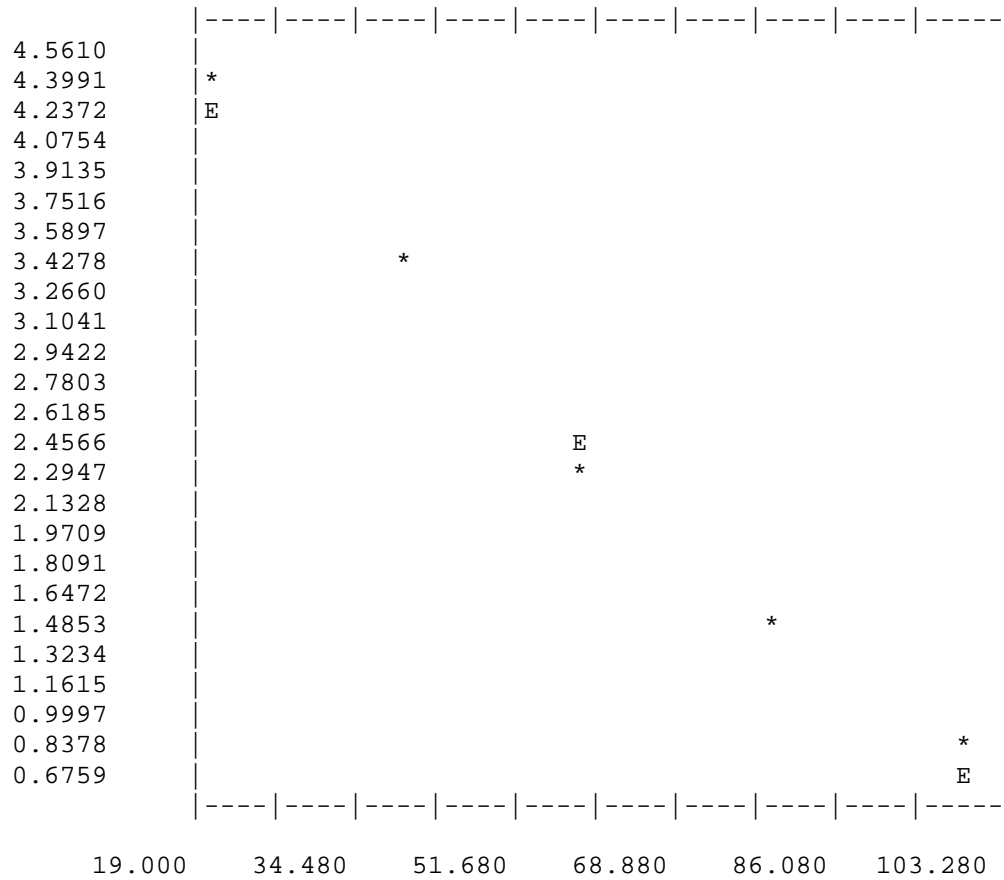
1.15

LIGHT PROFILE ANALYSES - FOR 10/10/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.14652	-0.04605	0.99546	0.99094
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	76.	4.34381	4.22543
2	40.	26.	3.29584	3.30435
3	60.	8.	2.19722	2.38326
4	80.	3.	1.38629	1.46218
5	100.	1.	0.69315	0.54109



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.45

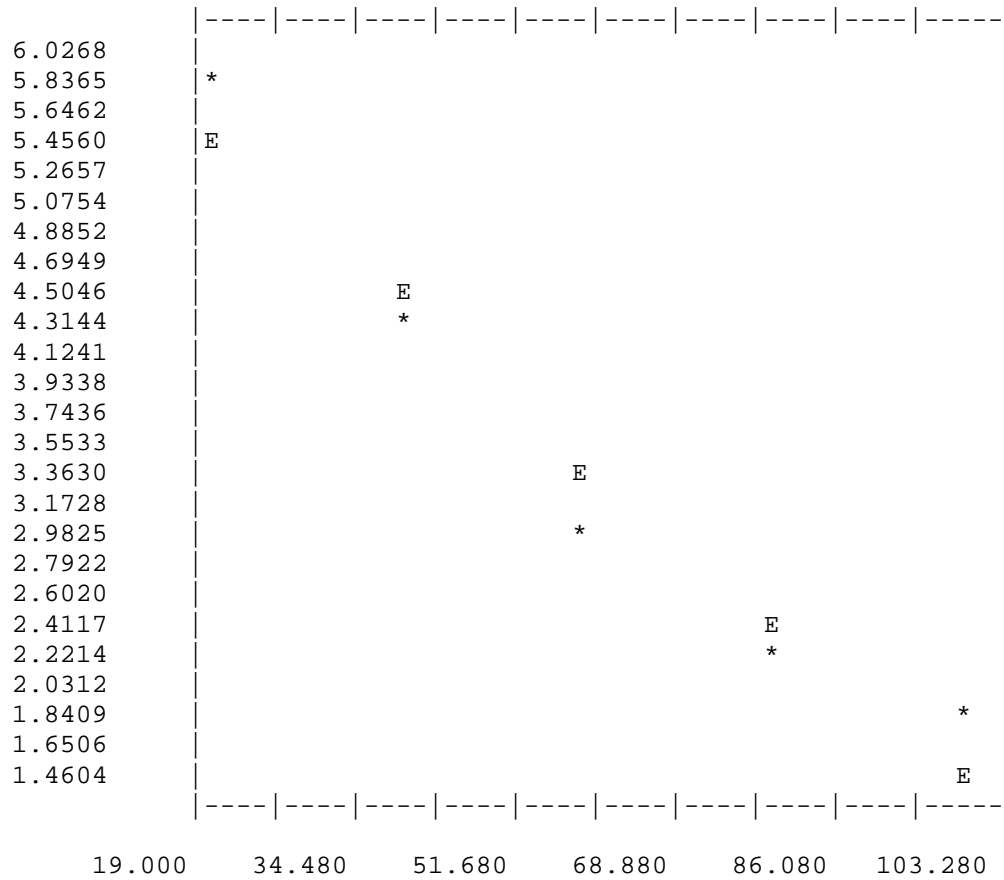
1.33

LIGHT PROFILE ANALYSES - FOR 10/10/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.34761	-0.05011	0.96903	0.93901
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	310.	5.73979	5.34548
2	40.	66.	4.20469	4.34334
3	60.	17.	2.89037	3.34121
4	80.	7.	2.07944	2.33908
5	100.	5.	1.79176	1.33695



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.76

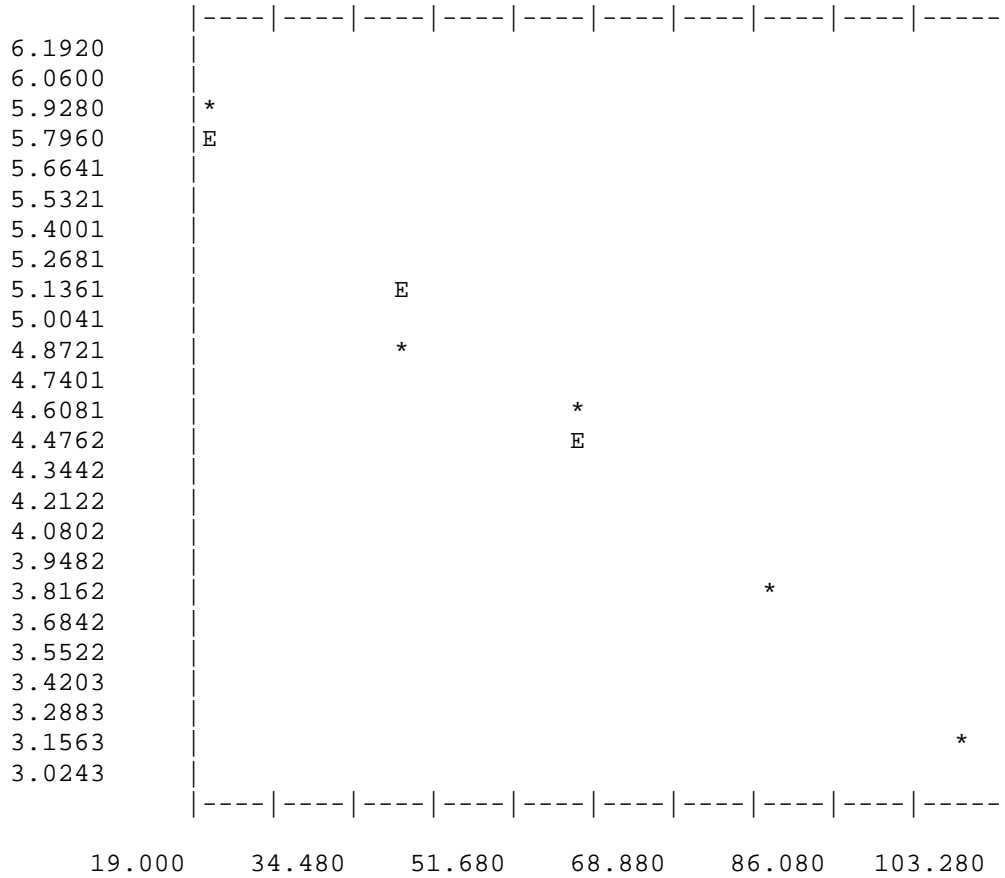
1.23

LIGHT PROFILE ANALYSES - FOR 10/10/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.40882	-0.03362	0.98740	0.97496
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	363.	5.89715	5.73651
2	40.	118.	4.77912	5.06419
3	60.	87.	4.47734	4.39187
4	80.	42.	3.76120	3.71955
5	100.	20.	3.04452	3.04723



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.52

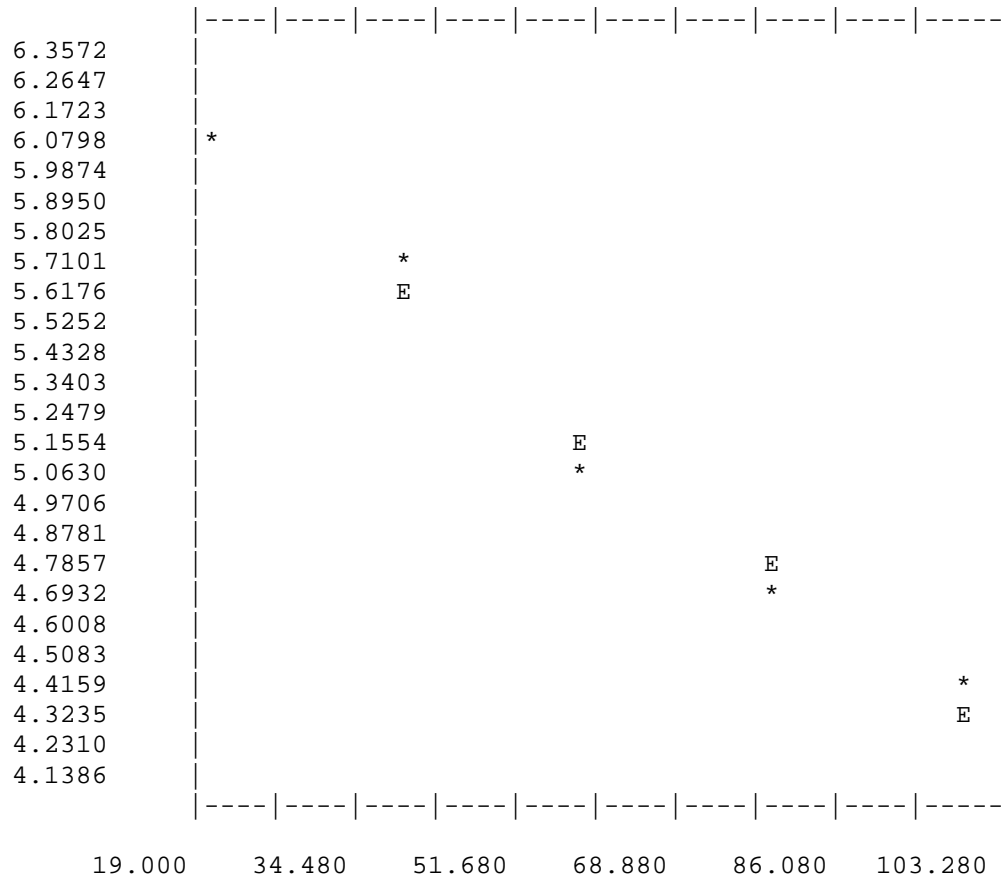
1.83

LIGHT PROFILE ANALYSES - FOR 10/10/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.46548	-0.02206	0.99206	0.98418
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	425.	6.05444	6.02421
2	40.	282.	5.64545	5.58293
3	60.	149.	5.01064	5.14166
4	80.	104.	4.65396	4.70038
5	100.	76.	4.34381	4.25911



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.65

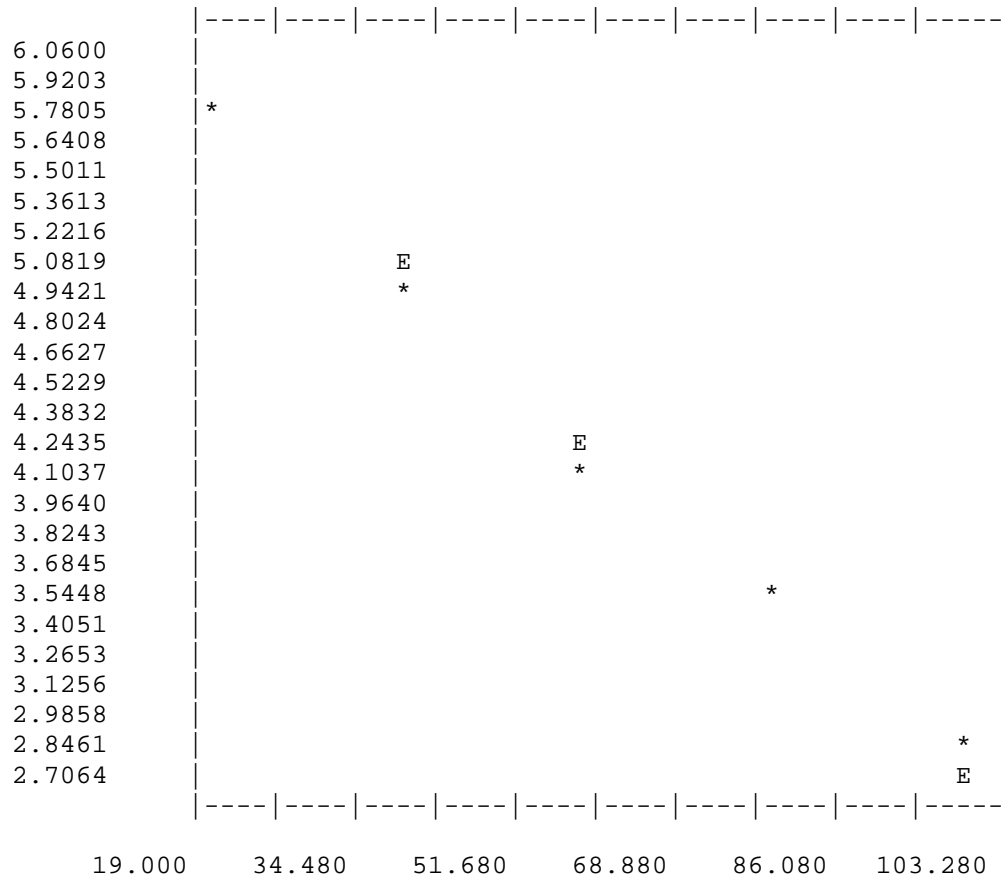
2.78

LIGHT PROFILE ANALYSES - FOR 11/ 9/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.43622	-0.03734	0.99789	0.99579
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	320.	5.77144	5.68933
2	40.	134.	4.90527	4.94243
3	60.	59.	4.09434	4.19553
4	80.	30.	3.43399	3.44863
5	100.	15.	2.77259	2.70173



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.80

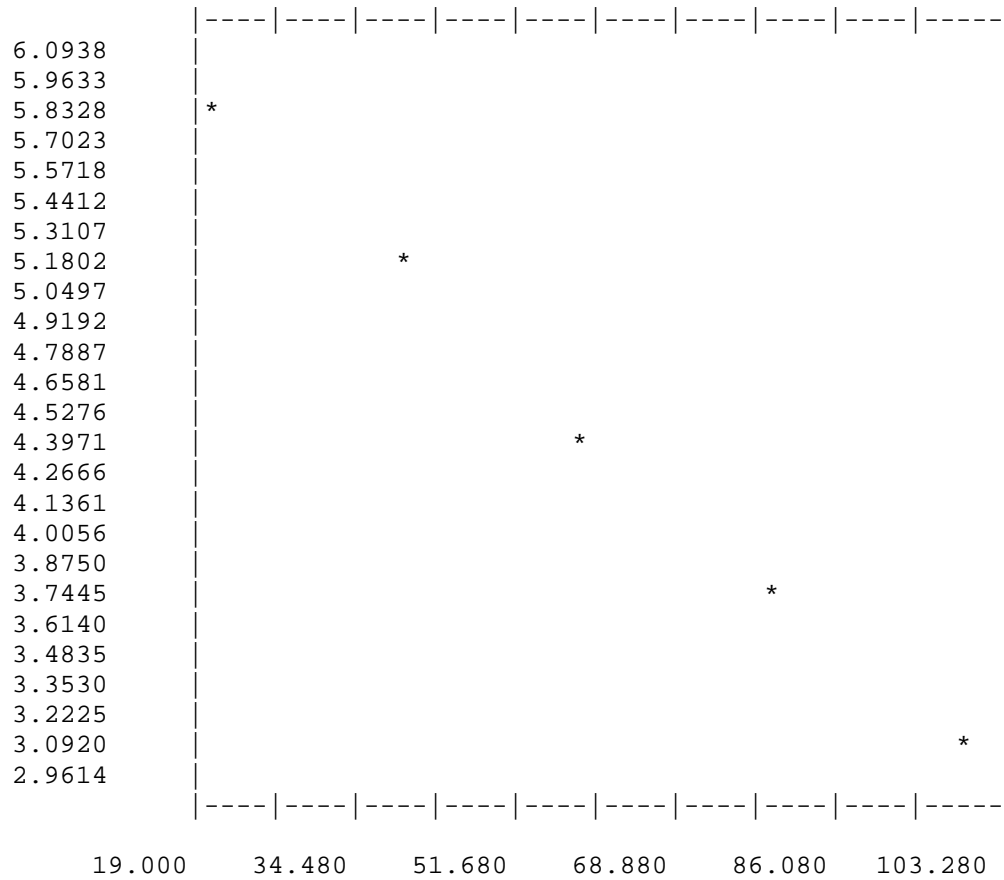
1.64

LIGHT PROFILE ANALYSES - FOR 11/ 9/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.50956	-0.03530	0.99935	0.99869
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	328.	5.79606	5.80363
2	40.	171.	5.14749	5.09771
3	60.	75.	4.33073	4.39178
4	80.	39.	3.68888	3.68585
5	100.	19.	2.99573	2.97993



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.65

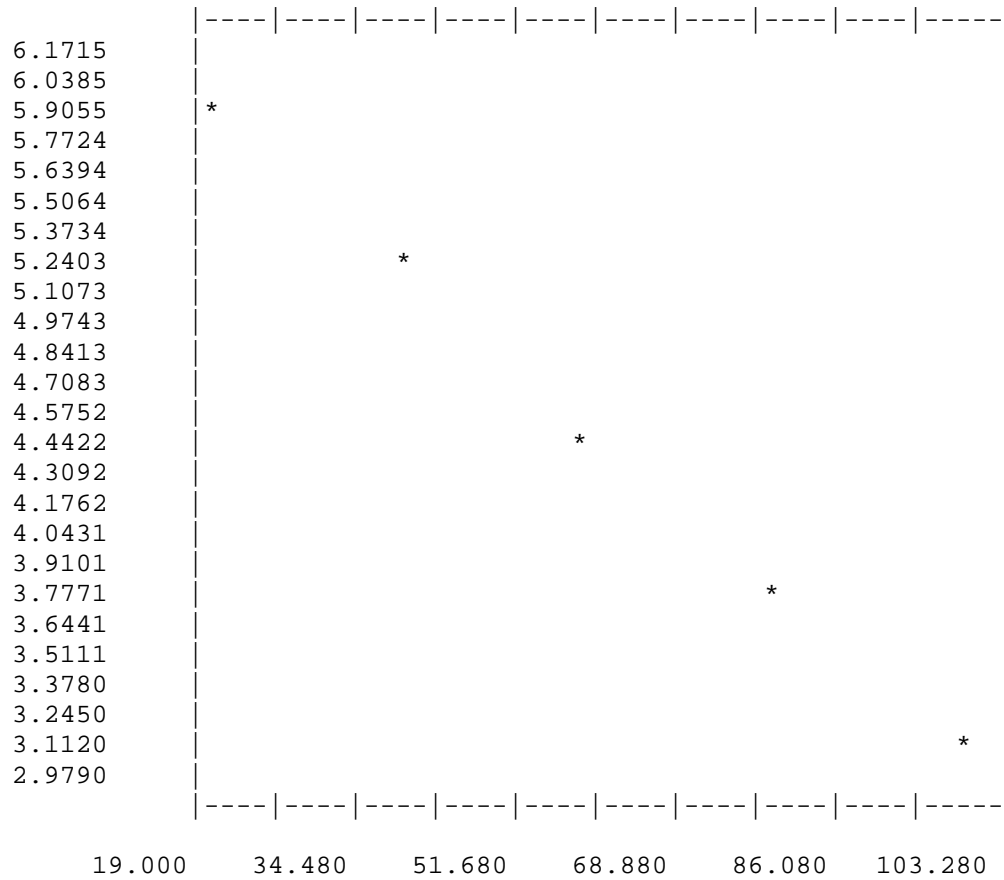
1.74

LIGHT PROFILE ANALYSES - FOR 11/ 9/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.59730	-0.03598	0.99983	0.99967
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	355.	5.87493	5.87761
2	40.	176.	5.17615	5.15793
3	60.	81.	4.40672	4.43824
4	80.	41.	3.73767	3.71855
5	100.	19.	2.99573	2.99887



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.70

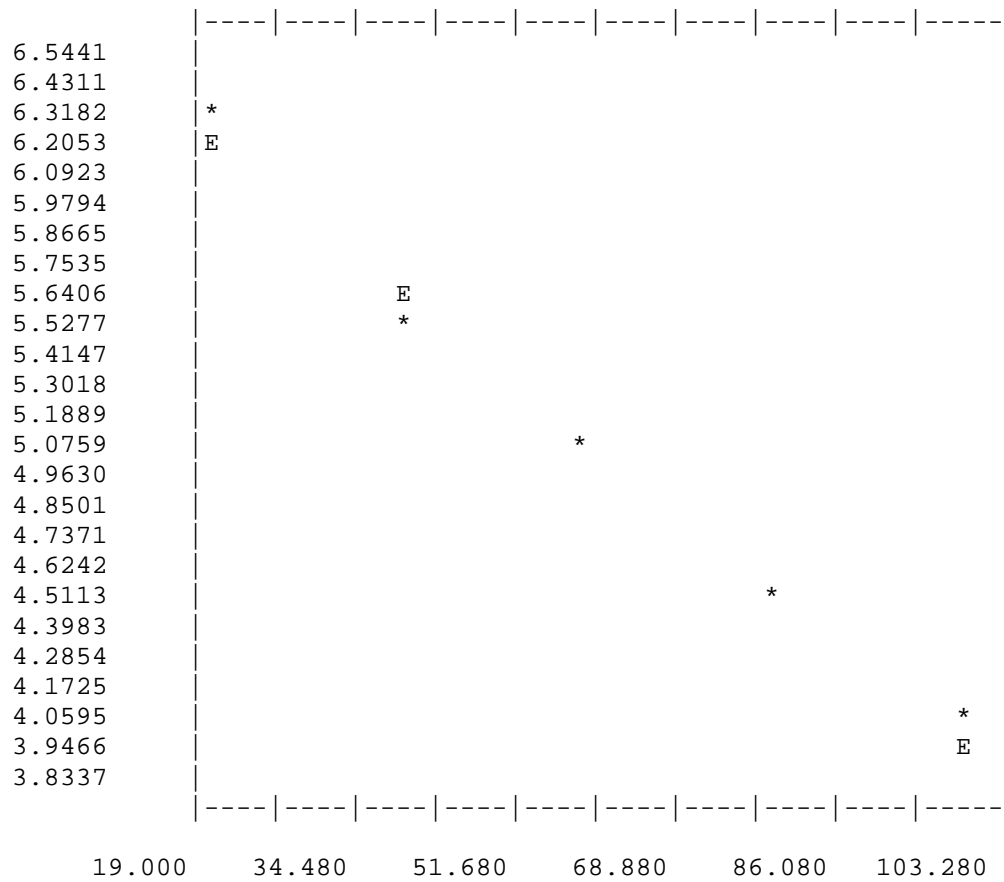
1.71

LIGHT PROFILE ANALYSES - FOR 11/ 9/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.70124	-0.02785	0.99619	0.99239
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	508.	6.23245	6.14430
2	40.	244.	5.50126	5.58737
3	60.	149.	5.01064	5.03043
4	80.	82.	4.41884	4.47350
5	100.	53.	3.98898	3.91656



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.09

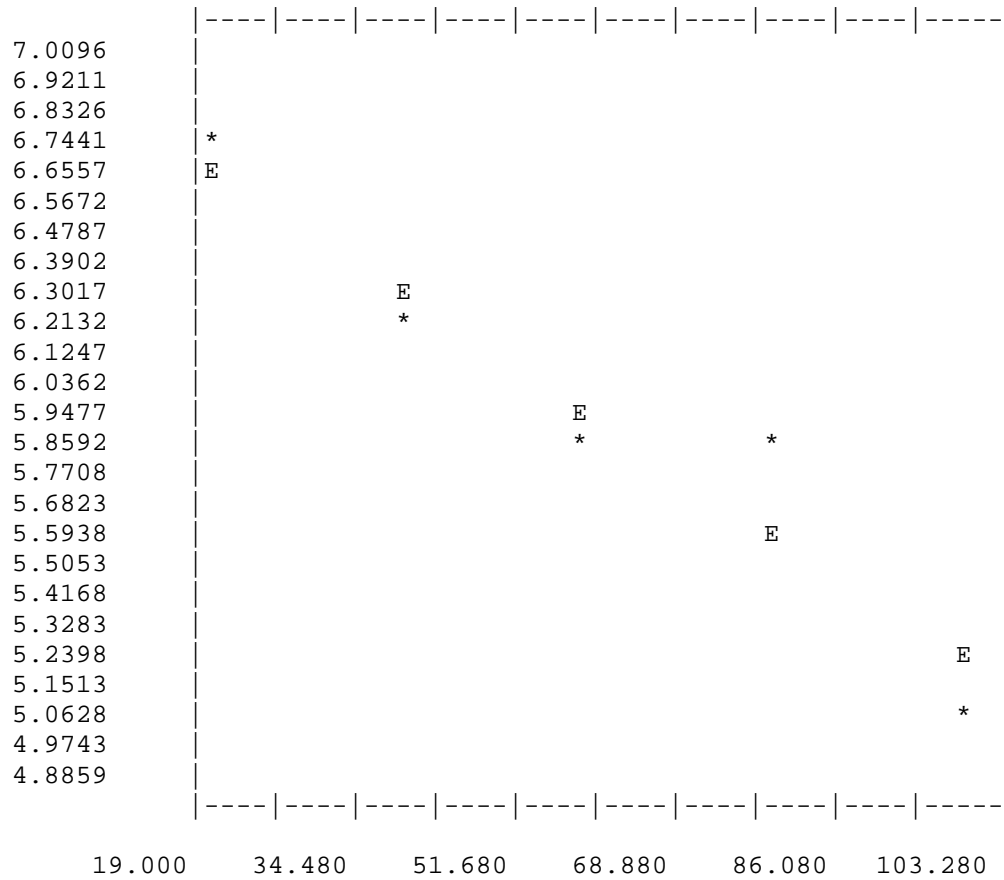
2.21

LIGHT PROFILE ANALYSES - FOR 11/ 9/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.99308	-0.01818	0.96620	0.93355
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	792.	6.67582	6.62940
2	40.	478.	6.17170	6.26573
3	60.	338.	5.82600	5.90206
4	80.	325.	5.78690	5.53838
5	100.	155.	5.04986	5.17471



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.36

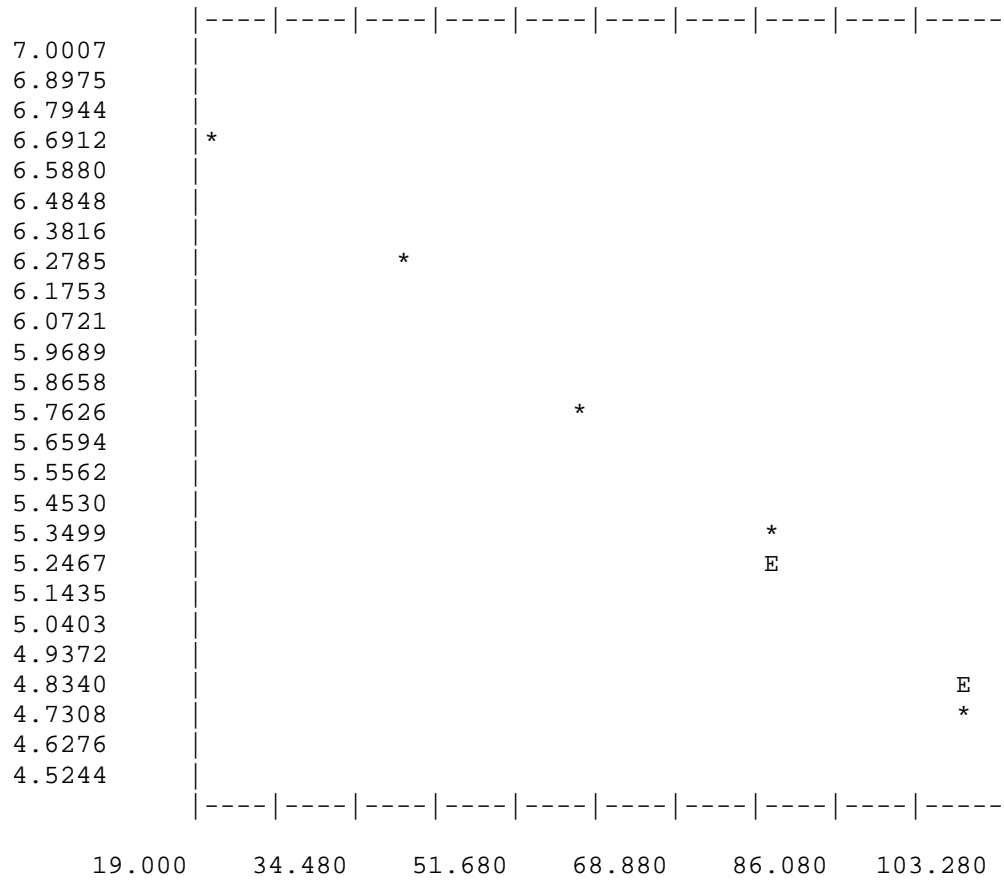
3.38

LIGHT PROFILE ANALYSES - FOR 12/10/ 01

ISOHALINE LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.14922	-0.02409	0.99605	0.99211
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	753.	6.62539	6.66734
2	40.	484.	6.18415	6.18547
3	60.	312.	5.74620	5.70359
4	80.	201.	5.30827	5.22172
5	100.	104.	4.65396	4.73985



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.81

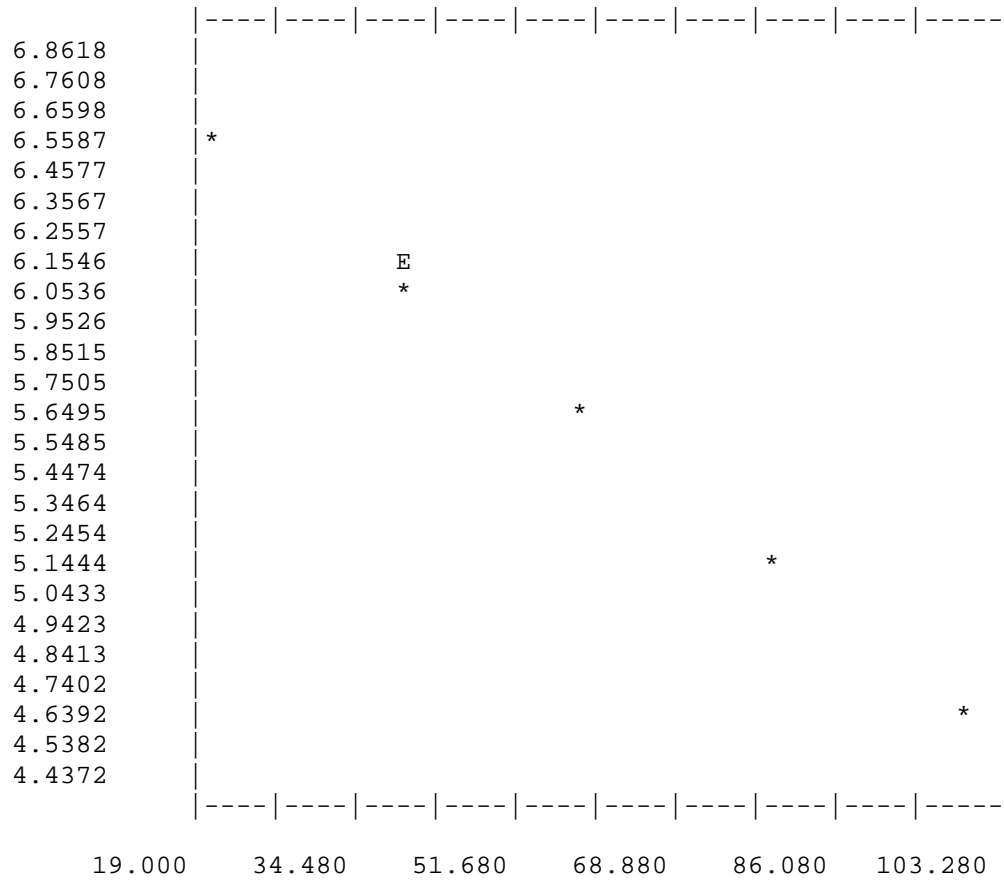
2.55

LIGHT PROFILE ANALYSES - FOR 12/10/ 01

ISOHALINE LOCATION 101

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	7.01570	-0.02403	0.99847	0.99695
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	668.	6.50578	6.53507
2	40.	422.	6.04737	6.05445
3	60.	277.	5.62762	5.57382
4	80.	167.	5.12396	5.09319
5	100.	95.	4.56435	4.61256



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.80

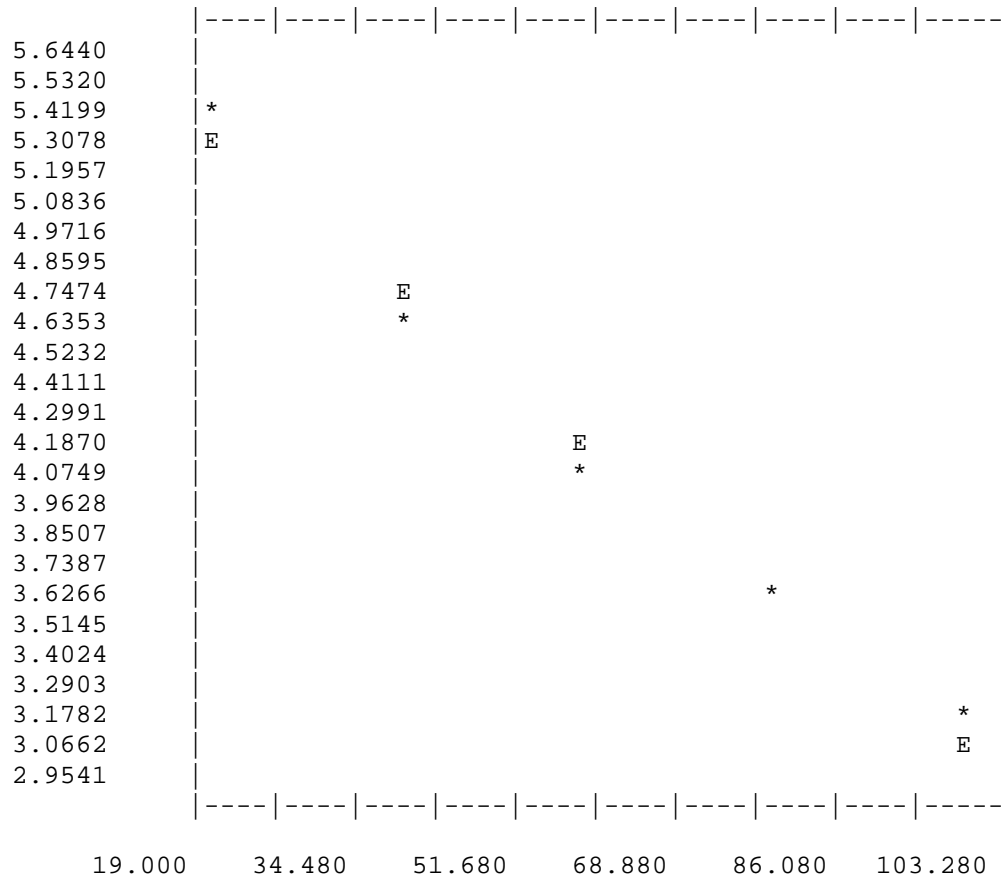
2.56

LIGHT PROFILE ANALYSES - FOR 12/10/ 01

ISOHALINE LOCATION 102

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.79999	-0.02808	0.99196	0.98399
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	215.	5.37528	5.23831
2	40.	96.	4.57471	4.67663
3	60.	54.	4.00733	4.11494
4	80.	33.	3.52636	3.55326
5	100.	21.	3.09104	2.99158



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.11

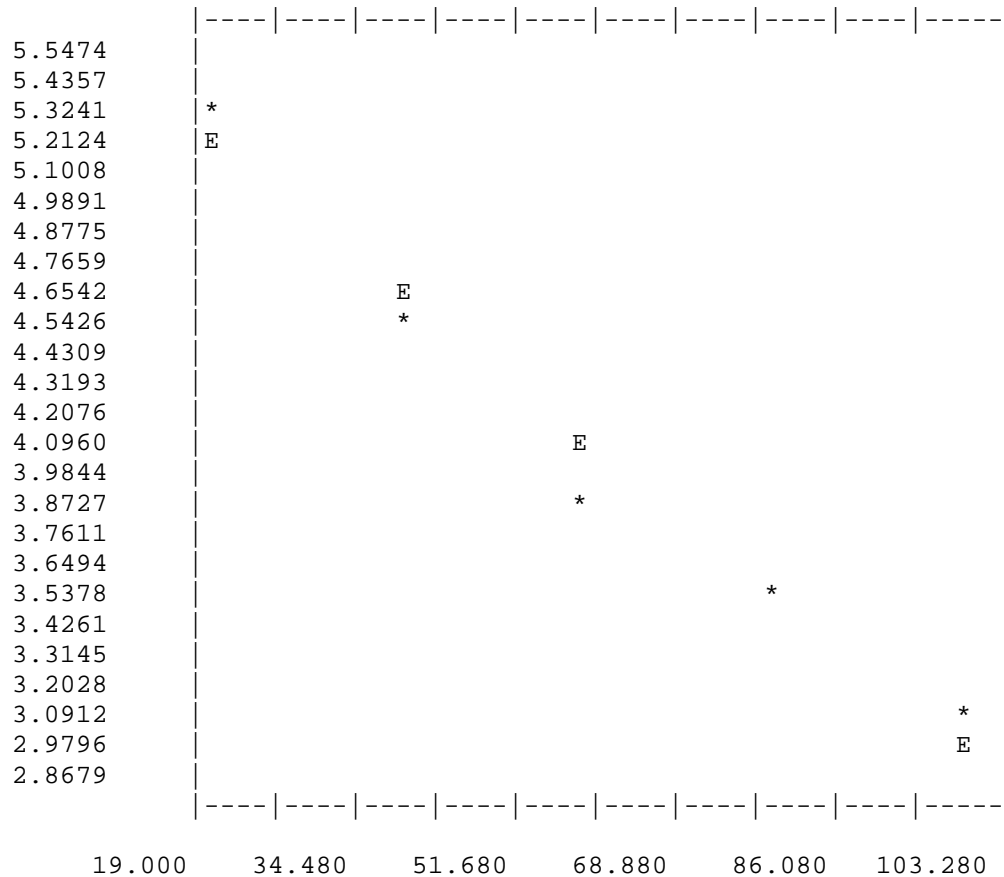
2.19

LIGHT PROFILE ANALYSES - FOR 12/10/ 01

ISOHALINE LOCATION 103

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.70026	-0.02799	0.99054	0.98116
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	196.	5.28320	5.14047
2	40.	88.	4.48864	4.58069
3	60.	47.	3.87120	4.02090
4	80.	31.	3.46574	3.46112
5	100.	19.	2.99573	2.90133



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.10

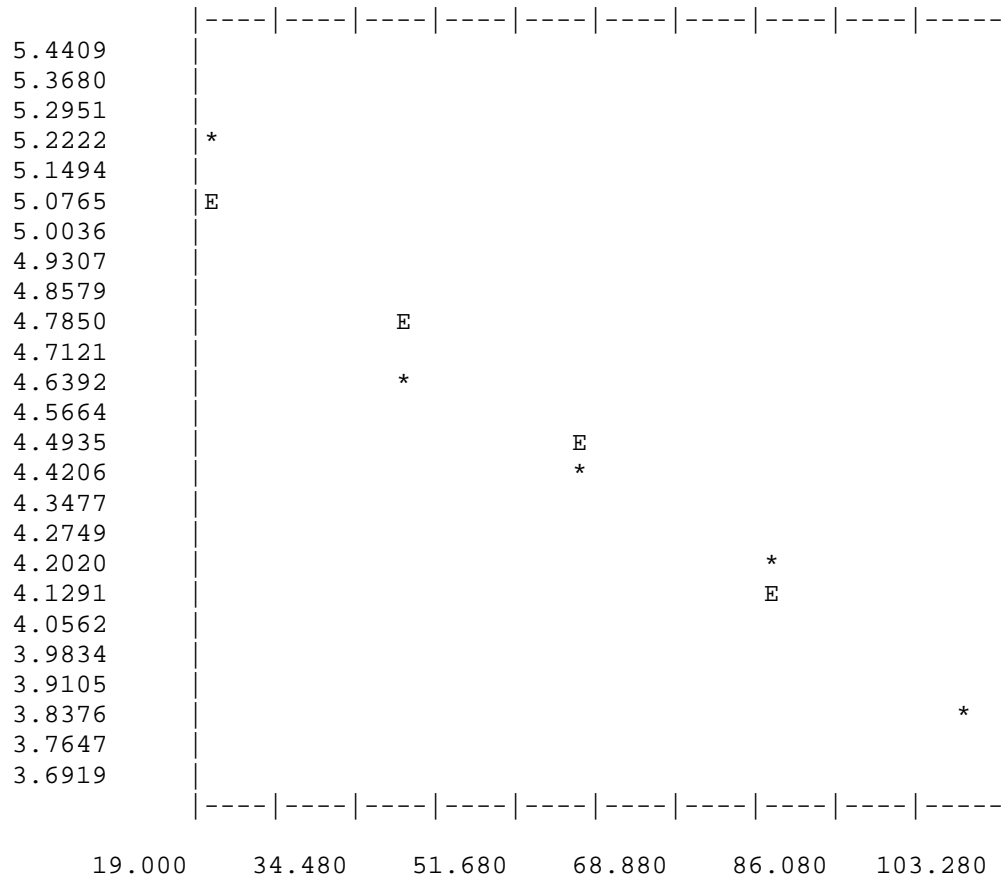
2.19

LIGHT PROFILE ANALYSES - FOR 12/10/ 01

ISOHALINE LOCATION 104

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.39279	-0.01583	0.98453	0.96931
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	177.	5.18178	5.07612
2	40.	102.	4.63473	4.75946
3	60.	80.	4.39445	4.44280
4	80.	64.	4.17439	4.12614
5	100.	45.	3.82864	3.80947



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.19

3.88



Back to Start

APPENDIX C

**Summary of Surface Water Chemistry
Data
Collected in Conjunction with
“Moving” Isohaline Stations**

DATE	Sample Location	Distance (km)	Color (CPU)	Turbidity (NTU)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Alkalinity (mg/l)	Chloride (mg/l)	Iron (mg/l)
04JAN01	0 o/oo	35.5	47	1.00	0.6	0.6	82.0	111.0	0.07
04JAN01	6 o/oo	22.7	60	2.60	4.4	2.8	92.4	3220.0	0.13
04JAN01	12 o/oo	18.8	55	2.30	4.8	1.5	98.4	6550.0	0.18
04JAN01	20 o/oo	12.0	46	2.10	10.8	0.6	108.0	11560.0	0.24
04JAN01	#18	30.4	45	0.90	0.6	0.6	83.8	109.0	0.09
01FEB01	0 o/oo	37.3	46	0.90	0.6	0.6	80.4	105.0	0.52
01FEB01	6 o/oo	19.2	60	3.10	4.0	3.3	84.0	3090.0	0.09
01FEB01	12 o/oo	17.4	50	2.50	4.1	0.6	95.5	6280.0	0.14
01FEB01	20 o/oo	12.0	49	2.50	5.8	1.6	108.0	9120.0	0.12
01FEB01	#18	30.4	47	1.20	2.7	1.9	79.7	106.0	0.04
01MAR01	0 o/oo	37.3	60	2.30	4.2	2.8	93.2	143.0	0.08
01MAR01	6 o/oo	24.5	70	4.60	10.6	2.4	81.6	3110.0	0.16
01MAR01	12 o/oo	20.6	70	3.40	5.8	1.0	90.9	6650.0	0.13
01MAR01	20 o/oo	12.2	60	3.50	7.2	1.8	105.0	11050.0	0.22
01MAR01	#18	30.4	55	3.70	4.2	2.0	82.9	322.0	0.05
03APR01	0 o/oo	37.3	115	2.20	3.3	0.6	48.6	89.1	0.23
03APR01	6 o/oo	18.5	80	4.50	7.5	1.2	74.0	3460.0	0.17
03APR01	12 o/oo	16.0	60	5.00	12.3	4.8	86.4	6690.0	0.28
03APR01	20 o/oo	11.4	49	4.90	12.3	2.3	93.9	10500.0	0.29
03APR01	#18	30.4	100	2.10	4.3	2.3	45.8	85.3	0.17
10MAY01	0 o/oo	37.2	55	1.40	4.5	1.5	96.4	175.0	0.04
10MAY01	6 o/oo	26.1	85	3.50	7.3	2.3	77.8	3010.0	0.08
10MAY01	12 o/oo	22.2	65	3.10	8.8	4.0	84.4	6310.0	0.16
10MAY01	20 o/oo	18.0	48	3.00	11.0	1.3	98.5	10350.0	0.32
10MAY01	#18	30.4	50	2.10	3.8	1.3	82.4	477.0	0.04
07JUN01	0 o/oo	37.2	65	1.50	4.4	0.8	72.8	172.0	0.04
07JUN01	6 o/oo	24.5	60	3.10	6.6	1.1	68.1	2960.0	0.13
07JUN01	12 o/oo	21.6	75	3.40	7.6	1.6	74.3	5630.0	0.17
07JUN01	20 o/oo	16.0	75	4.80	11.5	4.0	99.0	9750.0	0.29
07JUN01	#18	30.4	70	2.20	3.8	1.3	66.9	466.0	0.10
10JUL01	0 o/oo	37.2	150	2.30	5.0	5.0	75.7	69.3	0.20
10JUL01	6 o/oo	19.0	130	2.50	0.9	5.0	75.2	2770.0	0.23
10JUL01	12 o/oo	14.5	95	4.00	3.6	1.4	92.8	6170.0	0.39
10JUL01	20 o/oo	11.6	75	3.90	8.5	5.0	104.0	10500.0	0.63
10JUL01	#18	30.4	160	1.80	5.0	5.0	71.2	57.3	0.22

DATE	Sample Location	Distance (km)	Color (CPU)	Turbidity (NTU)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Alkalinity (mg/l)	Chloride (mg/l)	Iron (mg/l)
09AUG01	0 o/oo	11.0	380	2.80	2.0	1.0	51.4	68.7	0.70
09AUG01	6 o/oo	-14.5	300	2.30	3.0	2.0	69.2	3100.0	0.39
09AUG01	12 o/oo	-22.5	230	2.20	9.2	6.8	80.0	5870.0	0.31
09AUG01	20 o/oo	-30.0	210	2.10	6.0	2.7	82.5	6790.0	0.27
09AUG01	#18	30.4	420	3.20	3.8	0.8	37.2	21.4	0.73
13SEP01	0 o/oo	12.3	306	3.00	2.8	2.3	30.5	24.9	0.43
13SEP01	6 o/oo	-4.5	236	2.40	4.6	0.9	58.8	3170.0	0.33
13SEP01	12 o/oo	-13.5	143	2.00	8.3	4.8	83.5	6920.0	0.26
13SEP01	20 o/oo	-19.0	93	2.20	9.8	4.5	100.0	10140.0	0.27
13SEP01	#18	30.4	321	2.80	4.1	1.9	33.8	15.7	0.43
10OCT01	0 o/oo	14.9	180	6.10	7.5	5.5	54.5	53.8	0.70
10OCT01	6 o/oo	8.8	120	9.80	16.0	7.5	67.5	2970.0	0.46
10OCT01	12 o/oo	-1.3	100	6.20	13.5	2.0	82.6	6270.0	0.37
10OCT01	20 o/oo	-6.5	70	3.70	7.0	4.5	96.3	10260.0	0.38
10OCT01	#18	30.4	210	3.40	4.0	0.8	53.4	24.8	0.70
09NOV01	0 o/oo	24.5	220	2.10	2.5	0.8	64.0	44.1	0.47
09NOV01	6 o/oo	16.2	180	5.00	17.0	9.5	72.2	3170.0	0.47
09NOV01	12 o/oo	11.0	140	4.00	11.5	4.5	82.0	5510.0	0.52
09NOV01	20 o/oo	1.1	80	1.50	7.5	2.5	97.2	10480.0	0.80
09NOV01	#18	30.4	240	2.20	6.0	6.0	65.0	40.3	0.50
10DEC01	0 o/oo	34.3	90	3.40	4.0	0.8	87.3	47.2	0.30
10DEC01	6 o/oo	19.7	95	6.10	8.0	2.0	85.4	3130.0	0.34
10DEC01	12 o/oo	16.3	160	5.40	8.5	1.0	92.8	6320.0	0.27
10DEC01	20 o/oo	11.6	60	4.50	11.5	0.8	99.3	10590.0	0.32
10DEC01	#18	30.4	100	3.70	4.0	0.8	89.5	52.1	0.34

DATE	Sample Location	Distance (km)	Ammonia/Ammonium (mg/l)	Nitrite/Nitrate (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Orthophosphorus (mg/l)	Total Phosphorus (mg/l)	Available N/P Atomic Ratio	Silica (mg/l)
04JAN01	0 o/oo	35.5	0.021	1.240	0.84	0.468	0.553	6.2	1.52
04JAN01	6 o/oo	22.7	0.010	0.153	1.02	0.481	0.562	0.8	1.19
04JAN01	12 o/oo	18.8	0.010	0.009	0.99	0.348	0.412	0.1	1.18
04JAN01	20 o/oo	12.0	0.010	0.010	0.91	0.188	0.249	0.2	1.16
04JAN01	#18	30.4	0.025	0.942	0.87	0.500	0.570	4.4	1.45
01FEB01	0 o/oo	37.3	0.032	0.705	0.84	0.370	0.401	4.6	0.33
01FEB01	6 o/oo	19.2	0.010	0.205	1.19	0.297	0.368	1.7	0.69
01FEB01	12 o/oo	17.4	0.022	0.041	0.99	0.226	0.282	0.6	0.88
01FEB01	20 o/oo	12.0	0.017	0.002	0.90	0.151	0.204	0.3	1.06
01FEB01	#18	30.4	0.015	0.855	0.84	0.391	0.425	5.1	0.47
01MAR01	0 o/oo	37.3	0.074	0.087	0.97	0.686	0.760	0.5	0.62
01MAR01	6 o/oo	24.5	0.010	0.034	1.12	0.450	0.564	0.2	1.16
01MAR01	12 o/oo	20.6	0.101	0.052	1.04	0.326	0.402	1.1	1.75
01MAR01	20 o/oo	12.2	0.015	0.009	1.10	0.166	0.260	0.3	1.98
01MAR01	#18	30.4	0.010	0.048	0.98	0.623	0.722	0.2	0.46
03APR01	0 o/oo	37.3	0.087	2.000	1.24	0.603	0.704	7.9	3.05
03APR01	6 o/oo	18.5	0.010	0.380	1.15	0.464	0.575	1.9	1.74
03APR01	12 o/oo	16.0	0.010	0.038	0.99	0.295	0.402	0.4	1.42
03APR01	20 o/oo	11.4	0.010	0.003	0.81	0.184	0.281	0.2	0.97
03APR01	#18	30.4	0.088	1.880	1.12	0.595	0.691	7.6	2.69
10MAY01	0 o/oo	37.2	0.028	0.014	1.03	0.623	0.711	0.2	0.46
10MAY01	6 o/oo	26.1	0.011	0.011	1.27	0.554	0.658	0.1	1.59
10MAY01	12 o/oo	22.2	0.020	0.044	1.27	0.396	0.400	0.4	1.80
10MAY01	20 o/oo	18.0	0.010	0.012	1.15	0.209	0.214	0.2	1.20
10MAY01	#18	30.4	0.011	0.002	1.12	0.656	0.716	0.0	0.61
07JUN01	0 o/oo	37.2	0.082	0.293	1.12	0.702	0.735	1.2	1.41
07JUN01	6 o/oo	24.5	0.038	0.046	1.28	0.675	0.760	0.3	1.02
07JUN01	12 o/oo	21.6	0.079	0.055	1.34	0.561	0.634	0.5	1.32
07JUN01	20 o/oo	16.0	0.056	0.034	1.42	0.358	0.463	0.6	1.61
07JUN01	#18	30.4	0.116	0.220	1.30	0.764	0.833	1.0	1.33
10JUL01	0 o/oo	37.2	0.058	0.841	1.10	0.700	0.831	2.9	3.41
10JUL01	6 o/oo	19.0	0.133	0.428	1.62	0.578	0.685	2.2	3.19
10JUL01	12 o/oo	14.5	0.080	0.149	1.55	0.382	0.503	1.4	1.79
10JUL01	20 o/oo	11.6	0.019	0.018	1.52	0.259	0.388	0.3	1.00
10JUL01	#18	30.4	0.096	0.683	1.12	0.700	0.655	2.5	3.53

DATE	Sample Location	Distance (km)	Ammonia/Ammonium (mg/l)	Nitrite/Nitrate (mg/l)	Total Kjeldahl Nitrogen (mg/l)	Orthophosphorus (mg/l)	Total Phosphorus (mg/l)	Available N/P Atomic Ratio	Silica (mg/l)
09AUG01	0 o/oo	11.0	0.113	0.382	1.86	0.547	0.747	2.1	3.99
09AUG01	6 o/oo	-14.5	0.299	0.136	1.92	0.347	0.469	2.9	3.62
09AUG01	12 o/oo	-22.5	0.208	0.118	1.67	0.291	0.395	2.6	2.99
09AUG01	20 o/oo	-30.0	0.098	0.049	1.47	0.238	0.275	1.4	2.28
09AUG01	#18	30.4	0.075	0.431	1.96	0.735	0.933	1.6	3.62
13SEP01	0 o/oo	12.3	0.015	0.308	1.36	0.568	0.622	1.3	2.73
13SEP01	6 o/oo	-4.5	0.208	0.189	1.76	0.409	0.454	2.2	2.96
13SEP01	12 o/oo	-13.5	0.278	0.079	1.65	0.283	0.365	2.9	2.92
13SEP01	20 o/oo	-19.0	0.249	0.037	1.42	0.171	0.216	3.8	2.60
13SEP01	#18	30.4	0.022	0.317	1.40	0.555	0.641	1.4	2.68
10OCT01	0 o/oo	14.9	0.074	0.367	1.76	0.798	0.933	1.3	4.46
10OCT01	6 o/oo	8.8	0.207	0.206	2.03	0.496	0.723	1.9	3.79
10OCT01	12 o/oo	-1.3	0.302	0.112	0.81	0.356	0.461	2.7	3.38
10OCT01	20 o/oo	-6.5	0.301	0.042	1.23	0.225	0.262	3.5	2.63
10OCT01	#18	30.4	0.096	0.434	1.92	0.865	0.948	1.4	4.53
09NOV01	0 o/oo	24.5	0.064	0.770	1.26	0.688	0.780	2.8	5.42
09NOV01	6 o/oo	16.2	0.043	0.220	1.64	0.435	0.540	1.4	3.41
09NOV01	12 o/oo	11.0	0.015	0.013	1.43	0.270	0.352	0.2	1.94
09NOV01	20 o/oo	1.1	0.015	0.007	1.06	0.146	0.191	0.3	1.15
09NOV01	#18	30.4	0.068	0.785	1.28	0.734	0.800	2.7	5.52
10DEC01	0 o/oo	34.3	0.047	0.912	0.77	0.803	0.894	2.7	4.02
10DEC01	6 o/oo	19.7	0.028	0.386	1.20	0.524	0.650	1.8	3.56
10DEC01	12 o/oo	16.3	0.028	0.241	1.09	0.366	0.470	1.7	2.86
10DEC01	20 o/oo	11.6	0.059	0.133	0.95	0.223	0.310	2.0	2.02
10DEC01	#18	30.4	0.037	0.906	0.89	0.860	0.885	2.5	4.18

DATE	Sample Location	Distance (km)	Total Organic Carbon (mg/l)	Dissolved Organic Carbon (mg/l)	Inorganic Carbon (mg/l)	Chlorophyll-a (ug/l)	Chlorophyll a >20 um Fraction (mg/m3)	Chlorophyll a 20><5 um Fraction (mg/m3)	Chlorophyll a 5> um Fraction (mg/m3)
04JAN01	0 o/oo	35.5	7.72	7.67	18.80	2.3	0.1	0.5	1.7
04JAN01	6 o/oo	22.7	9.34	8.86	21.80	27.7	0.6	3.7	23.4
04JAN01	12 o/oo	18.8	9.05	7.92	21.70	22.6	2.3	0.0	20.3
04JAN01	20 o/oo	12.0	6.91	6.55	23.80	10.5	0.1	0.7	9.7
04JAN01	#18	30.4	7.68	7.54	18.20	2.9	0.2	-0.7	3.4
01FEB01	0 o/oo	37.3	8.46	8.56	17.70	1.0	0.0	-0.1	1.1
01FEB01	6 o/oo	19.2	11.00	9.00	18.50	37.1	1.5	-1.4	37.0
01FEB01	12 o/oo	17.4	9.56	8.40	20.50	15.2	0.0	0.0	15.2
01FEB01	20 o/oo	12.0	8.19	8.05	24.60	6.9	0.2	0.7	6.0
01FEB01	#18	30.4	9.82	9.06	17.00	5.4	0.9	0.1	4.3
01MAR01	0 o/oo	37.3	8.77	8.76	21.70	2.7	0.7	0.4	1.6
01MAR01	6 o/oo	24.5	18.10	9.54	19.20	29.7	4.0	0.3	25.4
01MAR01	12 o/oo	20.6	17.90	17.30	13.00	11.7	1.8	0.0	9.9
01MAR01	20 o/oo	12.2	18.10	17.30	14.60	8.6	1.6	1.6	5.4
01MAR01	#18	30.4	17.00	16.50	11.40	25.5	2.6	3.5	19.4
03APR01	0 o/oo	37.3	17.70	17.60	11.00	1.8	0.0	0.0	1.8
03APR01	6 o/oo	18.5	12.00	11.50	17.00	53.8	1.6	4.3	47.9
03APR01	12 o/oo	16.0	9.97	9.82	20.20	31.7	2.8	1.8	27.1
03APR01	20 o/oo	11.4	9.22	7.90	20.00	18.9	2.5	2.1	14.3
03APR01	#18	30.4	17.00	16.30	8.13	4.3	-0.2	0.0	4.6
10MAY01	0 o/oo	37.2	11.70	11.40	20.70	3.0	0.0	0.0	2.9
10MAY01	6 o/oo	26.1	14.00	13.10	17.50	21.3	0.6	1.4	19.3
10MAY01	12 o/oo	22.2	12.50	11.80	16.70	10.9	0.5	-0.2	10.6
10MAY01	20 o/oo	18.0	9.72	8.82	19.70	11.8	0.5	0.7	10.6
10MAY01	#18	30.4	21.30	19.70	11.30	13.2	0.0	0.9	12.3
07JUN01	0 o/oo	37.2	10.50	11.00	15.80	3.8	0.4	0.4	3.0
07JUN01	6 o/oo	24.5	12.80	12.00	12.60	17.0	3.2	0.9	12.9
07JUN01	12 o/oo	21.6	12.40	11.50	12.40	15.1	3.4	-0.3	12.0
07JUN01	20 o/oo	16.0	11.00	10.80	20.50	20.7	6.6	-0.2	14.3
07JUN01	#18	30.4	11.70	11.20	12.50	10.7	-0.2	0.2	10.7
10JUL01	0 o/oo	37.2	17.40	16.00	15.60	1.4	0.0	0.0	1.4
10JUL01	6 o/oo	19.0	16.10	15.60	15.40	4.6	-0.3	0.3	4.6
10JUL01	12 o/oo	14.5	14.30	13.10	18.70	6.8	0.7	0.4	5.7
10JUL01	20 o/oo	11.6	10.40	9.25	10.40	6.4	0.5	0.5	5.5
10JUL01	#18	30.4	19.40	19.00	13.70	2.3	-0.9	0.7	2.5

DATE	Sample Location	Distance (km)	Total Organic Carbon (mg/l)	Dissolved Organic Carbon (mg/l)	Inorganic Carbon (mg/l)	Chlorophyll-a (ug/l)	Chlorophyll a >20 um Fraction (mg/m3)	Chlorophyll a 20><5 um Fraction (mg/m3)	Chlorophyll a 5> um Fraction (mg/m3)
09AUG01	0 o/oo	11.0	34.90	35.10	11.70	4.5	1.4	0.0	3.2
09AUG01	6 o/oo	-14.5	24.20	23.80	13.50	7.9	1.4	0.0	6.5
09AUG01	12 o/oo	-22.5	20.40	20.30	15.70	11.6	5.3	-0.0	6.4
09AUG01	20 o/oo	-30.0	18.80	18.10	16.90	10.2	4.1	0.0	6.1
09AUG01	#18	30.4	1.00	36.40	15.70	1.8	0.2	-0.2	1.8
13SEP01	0 o/oo	12.3	31.90	32.50	5.40	2.5	0.0	0.7	1.8
13SEP01	6 o/oo	-4.5	21.70	22.90	10.50	6.1	1.1	0.9	4.1
13SEP01	12 o/oo	-13.5	16.00	20.30	17.20	17.5	2.0	8.6	6.9
13SEP01	20 o/oo	-19.0	10.60	14.40	21.80	9.0	2.0	0.2	6.8
13SEP01	#18	30.4	34.00	33.10	4.24	1.8	0.0	0.1	1.7
10OCT01	0 o/oo	14.9	36.70	38.30	8.93	5.0	0.7	-0.2	4.5
10OCT01	6 o/oo	8.8	29.50	28.10	12.60	5.9	0.8	1.0	4.1
10OCT01	12 o/oo	-1.3	28.10	26.80	16.40	6.8	1.7	0.8	4.2
10OCT01	20 o/oo	-6.5	13.20	12.80	22.90	11.8	2.5	0.7	8.6
10OCT01	#18	30.4	37.00	36.10	9.24	1.8	0.4	-0.2	1.6
09NOV01	0 o/oo	24.5	25.60	25.20	13.00	2.0	0.4	0.0	1.6
09NOV01	6 o/oo	16.2	23.70	23.20	14.90	31.0	22.1	3.0	5.9
09NOV01	12 o/oo	11.0	19.50	19.60	17.30	24.6	15.7	3.0	5.9
09NOV01	20 o/oo	1.1	11.70	12.80	20.40	9.1	5.9	0.1	3.2
09NOV01	#18	30.4	27.30	25.60	12.80	1.4	0.4	-0.1	1.2
10DEC01	0 o/oo	34.3	14.20	14.70	18.90	3.6	0.2	0.7	2.7
10DEC01	6 o/oo	19.7	16.80	16.00	18.00	25.5	0.5	7.3	17.7
10DEC01	12 o/oo	16.3	14.10	14.30	19.80	19.3	3.4	0.0	15.9
10DEC01	20 o/oo	11.6	10.10	10.90	21.30	11.2	2.3	0.7	8.2
10DEC01	#18	30.4	14.30	15.10	19.50	10.1	0.9	4.7	4.6



Back to Start

APPENDIX D

Phytoplankton Taxonomy Summary Results of Monthly Sampling

Station 101 = 0 ppt Isohaline

Station 102 = 6 ppt Isohaline

Station 103 = 12 ppt Isohaline

Station 104 = 20 ppt Isohaline

MONTH 1 YEAR 2001 STATION 101

CHLOROPHYTA	
Spermatozoopsis exultans	3
PYROPHYTA	
Cryptomonas sp.1	23
CHRY SOPHYTA	
Calycomonas ovalis	7
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella sp.	29
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	396
Coelosphaerium sp.	42

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.6
EUGLENO+PYROPHYTA (FLAGELLATES)	4.4
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	5.5
CYANOPHYTA (BLUE-GREEN ALGAE)	83.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.79	0.441	MARGALEV	0.80	
PIELOU BASE 10	0.34	0.441	SIMPSON	1.56	0.432
MACINTOSH	0.209	0.338	SHELDON		0.367
EXP. PIELOU	2.20		HEIP		0.241

MONTH 1 YEAR 2001 STATION 102

PYROPHYTA	
Cryptomonas sp.1	49
CHRYSOPHYTA	
Calycomonas ovalis	19
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	21
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	411

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	8.9
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	3.8
CYANOPHYTA (BLUE-GREEN ALGAE)	74.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.65	0.466	MARGALEV	0.48	
PIELOU BASE 10	0.28	0.466	SIMPSON	1.45	0.415
MACINTOSH	0.178	0.340	SHELDON		0.477
EXP. PIELOU	1.91		HEIP		0.303

MONTH 1 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas sp.1	33
PYROPHYTA	
DINOPHYCEAE	
Gymnodinium splendens	3
CHRYSOPHYTA	
Calycomonas ovalis	18
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	27
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	419

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	6.2
DINOFLAGELLATES	0.6
BACILLARIOPHYCEAE (DIATOMS)	5.1
CYANOPHYTA (BLUE-GREEN ALGAE)	78.6

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.64	0.395	MARGALEV	0.64	
PIELOU BASE 10	0.28	0.395	SIMPSON	1.41	0.361
MACINTOSH	0.164	0.284	SHELDON		0.378
EXP. PIELOU	1.89		HEIP		0.222

MONTH 1 YEAR 2001 STATION 104

PYROPHYTA	
Cryptomonas sp.1	66
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	4
CHRYSOPHYTA	
Calycomonas ovalis	7
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	423

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	11.7
DINOFLAGELLATES	0.7
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	74.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.51	0.366	MARGALEV	0.48	
PIELOU BASE 10	0.22	0.366	SIMPSON	1.36	0.355
MACINTOSH	0.150	0.287	SHELDON		0.415
EXP. PIELOU	1.66		HEIP		0.220

MONTH 2 YEAR 2001 STATION 101

PYROPHYTA	
Cryptomonas sp.1	55
CHRYSOPHYTA	
Calycomonas ovalis	3
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Navicula spp.	4
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	438

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	9.9
DINOFLLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.7
CYANOPHYTA (BLUE-GREEN ALGAE)	78.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.43	0.309	MARGALEV	0.48	
PIELOU BASE 10	0.19	0.309	SIMPSON	1.28	0.294
MACINTOSH	0.123	0.234	SHELDON		0.384
EXP. PIELOU	1.53		HEIP		0.178

MONTH 2 YEAR 2001 STATION 102

PYROPHYTA	
Cryptomonas sp.1	23
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	477

NUMBER OF TAXA 2 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	4.4
DINOFLLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	91.2

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.19	0.269	MARGALEV	0.16	
PIELOU BASE 10	0.08	0.269	SIMPSON	1.10	0.176
MACINTOSH	0.047	0.153	SHELDON		0.603
EXP. PIELOU	1.21		HEIP		0.205

MONTH 2 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas sp.1	19
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	481

NUMBER OF TAXA 2 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	3.7
DINOFLLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	92.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.16	0.233	MARGALEV	0.16	
PIELOU BASE 10	0.07	0.233	SIMPSON	1.08	0.146
MACINTOSH	0.039	0.127	SHELDON		0.588
EXP. PIELOU	1.18		HEIP		0.175

MONTH 2 YEAR 2001 STATION 104

EUGLENOPHYTA	
Eutreptilla sp.	55
PYROPHYTA	
Cryptomonas sp.1	16
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	429

NUMBER OF TAXA 3 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	13.8
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	83.1

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	0.48	0.441	MARGALEV 0.32
PIELOU BASE 10	0.21	0.441	SIMPSON 1.33 0.376
MACINTOSH	0.141	0.318	SHELDON 0.541
EXP. PIELOU	1.62		HEIP 0.312

MONTH 3 YEAR 2001 STATION 101

CHLOROPHYTA	
Spermatozoopsis exultans	5
PYROPHYTA	
Cryptomonas erosa	6
Cryptomonas sp.1	36
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	19
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	434

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.9
EUGLENO+PYROPHYTA (FLAGELLATES)	7.7
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	3.5
CYANOPHYTA (BLUE-GREEN ALGAE)	80.1

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.54	0.333	MARGALEV	0.64	
PIELOU BASE 10	0.23	0.333	SIMPSON	1.32	0.300
MACINTOSH	0.134	0.232	SHELDON		0.342
EXP. PIELOU	1.71		HEIP		0.177

MONTH 3 YEAR 2001 STATION 102

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	4
EUGLENOPHYTA	
Eutreptilla sp.	4
PYROPHYTA	
Cryptomonas sp.1	22
CHRYSOPHYTA	
Calycomonas ovalis	20
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Nitzschia tryblionella	2
Skeletonema costatum	10
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	438

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.8
EUGLENO+PYROPHYTA (FLAGELLATES)	5.0
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	2.3
CYANOPHYTA (BLUE-GREEN ALGAE)	83.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.56	0.288	MARGALEV	0.97	
PIELOU BASE 10	0.24	0.288	SIMPSON	1.30	0.267
MACINTOSH	0.127	0.196	SHELDON		0.250
EXP. PIELOU	1.75		HEIP		0.125

MONTH 3 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas sp.1	26
CHRYSOPHYTA	
Calycomonas ovalis	13
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	461

NUMBER OF TAXA 3 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	4.9
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	87.6

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.32	0.294	MARGALEV	0.32	
PIELOU BASE 10	0.14	0.294	SIMPSON	1.17	0.220
MACINTOSH	0.080	0.180	SHELDON		0.461
EXP. PIELOU	1.38		HEIP		0.191

MONTH 3 YEAR 2001 STATION 104

PYROPHYTA	
Cryptomonas erosa	3
Cryptomonas sp.1	32
CHRYSOPHYTA	
Calycomonas ovalis	11
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	9
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	445

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	6.5
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	1.7
CYANOPHYTA (BLUE-GREEN ALGAE)	83.2

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.47	0.290	MARGALEV	0.64	
PIELOU BASE 10	0.20	0.290	SIMPSON	1.25	0.254
MACINTOSH	0.112	0.194	SHELDON		0.319
EXP. PIELOU	1.59		HEIP		0.149

MONTH 4 YEAR 2001 STATION 101

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	27
Spermatozoopsis exultans	21
PYROPHYTA	
Cryptomonas sp.1	73
CHRYSOPHYTA	
Calycomonas ovalis	20
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Navicula spp.	3
Nitzschia palea	23
Skeletonema costatum	53
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	280

NUMBER OF TAXA 8 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	8.4
EUGLENO+PYROPHYTA (FLAGELLATES)	12.7
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	13.8
CYANOPHYTA (BLUE-GREEN ALGAE)	48.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.44	0.690	MARGALEV	1.13	
PIELOU BASE 10	0.62	0.690	SIMPSON	2.82	0.738
MACINTOSH	0.423	0.626	SHELDON		0.525
EXP. PIELOU	4.20		HEIP		0.457

MONTH 4 YEAR 2001 STATION 102

CHLOROPHYTA	
Spermatozoopsis exultans	25
PYROPHYTA	
Cryptomonas ovata	61
Cryptomonas sp.1	46
PYROPHYTA	
DINOPHYCEAE	
Gymnodinium splendens	21
Prorocentrum micans	5
CHRY SOPHYTA	
Calycomonas ovalis	5
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	5
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	83
Phormidium fragile (trichome)	249

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	4.1
EUGLENO+PYROPHYTA (FLAGALLATES)	17.6
DINOFLAGALLATES	4.3
BACILLARIOPHYCEAE (DIATOMS)	0.8
CYANOPHYTA (BLUE-GREEN ALGAE)	54.7

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	1.54	0.702	MARGALEV 1.29
PIELOU BASE 10	0.67	0.702	SIMPSON 3.30 0.784
MACINTOSH	0.470	0.674	SHELDON 0.520
EXP. PIELOU	4.68		HEIP 0.460

MONTH 4 YEAR 2001 STATION 103

PYROPHYTA		
Cryptomonas ovata		6
Cryptomonas sp.1		64
PYROPHYTA		
DINOPHYCEAE		
Gonyalux palustre		2
Peridinium cerasus		4
CYANOPHYTA		
Synechocystis aquaticus Sauvageau		14
Phormidium fragile (trichome)		410

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	12.3
DINOFLAGELLATES	1.1
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	74.4

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.64	0.357	MARGALEV	0.80	
PIELOU BASE 10	0.28	0.357	SIMPSON	1.45	0.372
MACINTOSH	0.177	0.286	SHELDON		0.316
EXP. PIELOU	1.90		HEIP		0.179

MONTH 4 YEAR 2001 STATION 104

PYROPHYTA		
Cryptomonas erosa		3
Cryptomonas ovata		21
Cryptomonas sp.1		91
PYROPHYTA		
DINOPHYCEAE		
Gonyalux palustre		9
Gymnodinium splendens		6
Peridinium cerasus		18
CHRYSOPHYTA		
BACILLARIOPHYCEAE		
Biddulphia sinensis		12
CYANOPHYTA		
Synechocystis aquaticus Sauvageau		89
Phormidium fragile (trichome)		251

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	18.7
DINOFLAGELLATES	5.4
BACILLARIOPHYCEAE (DIATOMS)	2.0
CYANOPHYTA (BLUE-GREEN ALGAE)	55.3

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.46	0.665	MARGALEV	1.29	
PIELOU BASE 10	0.63	0.665	SIMPSON	3.12	0.764
MACINTOSH	0.454	0.650	SHELDON		0.479
EXP. PIELOU	4.31		HEIP		0.414

MONTH 5 YEAR 2001 STATION 101

CHLOROPHYTA	
Spermatozoopsis exultans	34
PYROPHYTA	
Cryptomonas ovata	4
Cryptomonas sp.1	236
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Cymbella sp.	1
Nitzschia palea	7
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	210
Oscillatoria rubescens (trichome)	8

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	4.6
EUGLENO+PYROPHYTA (FLAGELLATES)	32.4
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	1.1
CYANOPHYTA (BLUE-GREEN ALGAE)	29.5

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.08	0.554	MARGALEV	0.97	
PIELOU BASE 10	0.47	0.554	SIMPSON	2.47	0.695
MACINTOSH	0.381	0.585	SHELDON		0.420
EXP. PIELOU	2.94		HEIP		0.323

MONTH 5 YEAR 2001 STATION 102

PYROPHYTA	
Cryptomonas ovata	93
Cryptomonas sp.1	65
CHRYSOPHYTA	
Calycomonas ovalis	2
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	340

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	24.0
DINOFLLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	51.7

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	0.86	0.622	MARGALEV 0.48
PIELOU BASE 10	0.37	0.622	SIMPSON 1.95 0.648
MACINTOSH	0.296	0.566	SHELDON 0.592
EXP. PIELOU	2.37		HEIP 0.456

MONTH 5 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas ovata	40
Cryptomonas sp.1	77
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	4
Gymnodinium splendens	3
Peridinium cerasus	3
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Rhizosolenia fragellissima	2
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	371

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGALLATES)	19.0
DINOFLAGALLATES	1.6
BACILLARIOPHYCEAE (DIATOMS)	0.3
CYANOPHYTA (BLUE-GREEN ALGAE)	60.1

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.83	0.428	MARGALEV	0.97	
PIELOU BASE 10	0.36	0.428	SIMPSON	1.72	0.489
MACINTOSH	0.249	0.382	SHELDON		0.329
EXP. PIELOU	2.30		HEIP		0.217

MONTH 5 YEAR 2001 STATION 104

PYROPHYTA	
Cryptomonas erosa	3
Cryptomonas sp.1	67
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	7
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Rhizosolenia fragellissima	2
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	404
Oscillatoria rubescens (trichome)	17

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	12.3
DINOFLAGELLATES	1.2
BACILLARIOPHYCEAE (DIATOMS)	0.4
CYANOPHYTA (BLUE-GREEN ALGAE)	73.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.67	0.373	MARGALEV	0.80	
PIELOU BASE 10	0.29	0.373	SIMPSON	1.49	0.393
MACINTOSH	0.189	0.304	SHELDON		0.325
EXP. PIELOU	1.95		HEIP		0.190

MONTH 6 YEAR 2001 STATION 101

PYROPHYTA		
Cryptomonas ovata		20
Cryptomonas sp.1		307
CYANOPHYTA		
Synechocystis aquaticus Sauvageau		166
Oscillatoria rubescens (trichome)		7

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	39.5
DINOFLLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	20.9

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	0.85	0.616	MARGALEV 0.48
PIELOU BASE 10	0.37	0.616	SIMPSON 2.04 0.681
MACINTOSH	0.315	0.601	SHELDON 0.587
EXP. PIELOU	2.35		HEIP 0.450

MONTH 6 YEAR 2001 STATION 102

PYROPHYTA	
Cryptomonas sp.1	25
PYROPHYTA	
DINOPHYCEAE	
Peridinium cerasus	2
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Chaetocerus compressa	13
Rhizosolenia fragellissima	54
CYANOPHYTA	
Anabaena spiroides v. crassa	8
Synechocystis aquaticus Sauvageau	398

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	4.8
DINOFLAGELLATES	0.4
BACILLARIOPHYCEAE (DIATOMS)	12.8
CYANOPHYTA (BLUE-GREEN ALGAE)	77.3

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.75	0.421	MARGALEV	0.80	
PIELOU BASE 10	0.33	0.421	SIMPSON	1.54	0.422
MACINTOSH	0.204	0.329	SHELDON		0.355
EXP. PIELOU	2.13		HEIP		0.225

MONTH 6 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas sp.1	73
CHRYSOPHYTA	
Calycomonas ovalis	7
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Nitzschia palea	4
Rhizosolenia fragellissima	43
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	373

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	12.7
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	8.2
CYANOPHYTA (BLUE-GREEN ALGAE)	65.1

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.81	0.503	MARGALEV	0.64	
PIELOU BASE 10	0.35	0.503	SIMPSON	1.71	0.518
MACINTOSH	0.246	0.425	SHELDON		0.449
EXP. PIELOU	2.25		HEIP		0.311

MONTH 6 YEAR 2001 STATION 104

CHLOROPHYTA	
Chlymentomonas sp.	3
PYROPHYTA	
Cryptomonas sp.1	133
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	14
Peridinium cerasus	9
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Rhizosolenia fragellissima	5
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	336

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.5
EUGLENO+PYROPHYTA (FLAGALLATES)	21.0
DINOFLAGALLATES	3.6
BACILLARIOPHYCEAE (DIATOMS)	0.8
CYANOPHYTA (BLUE-GREEN ALGAE)	53.1

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.87	0.485	MARGALEV	0.80	
PIELOU BASE 10	0.38	0.485	SIMPSON	1.91	0.572
MACINTOSH	0.289	0.467	SHELDON		0.397
EXP. PIELOU	2.38		HEIP		0.277

MONTH 7 YEAR 2001 STATION 101

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	7
Spermatozoopsis exultans	10
PYROPHYTA	
Cryptomonas sp.1	17
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	3
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	7
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	456

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	3.3
EUGLENO+PYROPHYTA (FLAGELLATES)	3.3
DINOFLAGELLATES	0.6
BACILLARIOPHYCEAE (DIATOMS)	1.4
CYANOPHYTA (BLUE-GREEN ALGAE)	88.2

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.43	0.239	MARGALEV	0.80	
PIELOU BASE 10	0.19	0.239	SIMPSON	1.20	0.200
MACINTOSH	0.091	0.147	SHELDON		0.256
EXP. PIELOU	1.53		HEIP		0.107

MONTH 7 YEAR 2001 STATION 102

PYROPHYTA	
Cryptomonas ovata	30
Cryptomonas sp.1	236
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	4
CHRY SOPHYTA	
Calycomonas ovalis	3
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Biddulphia sinensis	3
Navicula spp.	1
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	223

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGALLATES)	34.7
DINOFLAGALLATES	0.5
BACILLARIOPHYCEAE (DIATOMS)	0.5
CYANOPHYTA (BLUE-GREEN ALGAE)	29.1

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.00	0.512	MARGALEV	0.97	
PIELOU BASE 10	0.43	0.512	SIMPSON	2.35	0.670
MACINTOSH	0.364	0.559	SHELDON		0.387
EXP. PIELOU	2.71		HEIP		0.284

MONTH 7 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas sp.1	213
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	16
CHRYSOPHYTA	
Calycomonas ovalis	11
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Rhizosolenia stolterfothii	4
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	256

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	29.9
DINOFLAGELLATES	2.2
BACILLARIOPHYCEAE (DIATOMS)	0.6
CYANOPHYTA (BLUE-GREEN ALGAE)	35.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.94	0.583	MARGALEV	0.64	
PIELOU BASE 10	0.41	0.583	SIMPSON	2.25	0.694
MACINTOSH	0.348	0.602	SHELDON		0.511
EXP. PIELOU	2.56		HEIP		0.389

MONTH 7 YEAR 2001 STATION 104

PYROPHYTA	
Cryptomonas sp.1	201
PYROPHYTA	
DINOPHYCEAE	
Certaum hircus	3
CHRY SOPHYTA	
Calycomonas ovalis	21
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Biddulphia sinensis	31
Chaetocerus compressa	23
Nitzschia tryblionella	2
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	219

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGALLATES)	28.7
DINOFLAGALLATES	0.4
BACILLARIOPHYCEAE (DIATOMS)	8.0
CYANOPHYTA (BLUE-GREEN ALGAE)	31.2

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.23	0.631	MARGALEV	0.97	
PIELOU BASE 10	0.53	0.631	SIMPSON	2.77	0.745
MACINTOSH	0.418	0.641	SHELDON		0.488
EXP. PIELOU	3.41		HEIP		0.402

MONTH 8 YEAR 2001 STATION 101

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	40
EUGLENOPHYTA	
Euglena spirogyra	12
PYROPHYTA	
Cryptomonas curvata	7
Cryptomonas erosa	18
Cryptomonas ovata	83
Cryptomonas sp.1	163
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	6
Gymnodinium simplex	1
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	170

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	5.2
EUGLENO+PYROPHYTA (FLAGELLATES)	36.7
DINOFLAGELLATES	0.9
BACILLARIOPHYCEAE (DIATOMS)	0.0
CYANOPHYTA (BLUE-GREEN ALGAE)	22.0

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.57	0.713	MARGALEV	1.29	
PIELOU BASE 10	0.68	0.713	SIMPSON	3.88	0.835
MACINTOSH	0.515	0.738	SHELDON		0.532
EXP. PIELOU	4.79		HEIP		0.474

MONTH 8 YEAR 2001 STATION 102

EUGLENOPHYTA	
Eutreptilla sp.	7
PYROPHYTA	
Cryptomonas sp.1	49
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	3
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella sp.	2
Skeletonema costatum	216
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	223

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGALLATES)	10.2
DINOFLAGALLATES	0.5
BACILLARIOPHYCEAE (DIATOMS)	39.7
CYANOPHYTA (BLUE-GREEN ALGAE)	40.6

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.06	0.593	MARGALEV	0.80	
PIELOU BASE 10	0.46	0.593	SIMPSON	2.53	0.726
MACINTOSH	0.389	0.627	SHELDON		0.482
EXP. PIELOU	2.89		HEIP		0.379

MONTH 8 YEAR 2001 STATION 103

CHLOROPHYTA	
Chlymentomonas sp.	30
Spermatozoopsis exultans	6
PYROPHYTA	
Cryptomonas sp.1	85
PYROPHYTA	
DINOPHYCEAE	
Peridinium cerasus	15
CHRYSOPHYTA	
Calycomonas ovalis	20
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	216
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	128

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	6.2
EUGLENO+PYROPHYTA (FLAGALLATES)	14.5
DINOFLAGALLATES	2.6
BACILLARIOPHYCEAE (DIATOMS)	36.9
CYANOPHYTA (BLUE-GREEN ALGAE)	21.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.47	0.755	MARGALEV	0.97	
PIELOU BASE 10	0.64	0.755	SIMPSON	3.48	0.831
MACINTOSH	0.486	0.746	SHELDON		0.620
EXP. PIELOU	4.34		HEIP		0.557

MONTH 8 YEAR 2001 STATION 104

CHLOROPHYTA		
Chlymentomonas sp.		11
Crucigenia fenestrata		5
Spermatozoopsis exultans		2
PYROPHYTA		
Cryptomonas sp.1		122
PYROPHYTA		
DINOPHYCEAE		
Gonyalux palustre		6
Gymnodinium splendens		3
Peridinium cerasus		7
CHRYSOPHYTA		
Calycomonas ovalis		9
CHRYSOPHYTA		
BACILLARIOPHYCEAE		
Skeletonema costatum		221
CYANOPHYTA		
Synechocystis aquaticus Sauvageau		114

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	2.9
EUGLENO+PYROPHYTA (FLAGALLATES)	19.6
DINOFLAGALLATES	2.6
BACILLARIOPHYCEAE (DIATOMS)	35.5
CYANOPHYTA (BLUE-GREEN ALGAE)	18.3

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	1.41	0.612	MARGALEV 1.45
PIELOU BASE 10	0.61	0.612	SIMPSON 3.24 0.769
MACINTOSH	0.466	0.651	SHELDON 0.410
EXP. PIELOU	4.10		HEIP 0.344

MONTH 9 YEAR 2001 STATION 101

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	26
EUGLENOPHYTA	
Euglena acus	5
PYROPHYTA	
Cryptomonas ovata	6
Cryptomonas sp.1	27
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	4
Gonyalux scrippsae	1
CHRYSTOPHYTA	
BACILLARIOPHYCEAE	
Navicula spp.	2
Nitzschia spp.	1
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	415

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 487.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	5.0
EUGLENO+PYROPHYTA (FLAGELLATES)	7.3
DINOFLAGELLATES	1.0
BACILLARIOPHYCEAE (DIATOMS)	0.6
CYANOPHYTA (BLUE-GREEN ALGAE)	79.8

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	0.64	0.292	MARGALEV 1.29
PIELOU BASE 10	0.28	0.292	SIMPSON 1.37 0.301
MACINTOSH	0.151	0.216	SHELDON 0.211
EXP. PIELOU	1.90		HEIP 0.112

MONTH 9 YEAR 2001 STATION 102

CHLOROPHYTA	
Chlymentomonas sp.	4
Scenedesmus quadricauda v. Westii	6
PYROPHYTA	
Cryptomonas sp.1	250
CHRYSOPHYTA	
Calycomonas ovalis	11
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella sp.	19
Skeletonema costatum	107
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	103

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	1.3
EUGLENO+PYROPHYTA (FLAGALLATES)	33.3
DINOFLAGALLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	16.8
CYANOPHYTA (BLUE-GREEN ALGAE)	13.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.30	0.669	MARGALEV	0.97	
PIELOU BASE 10	0.57	0.669	SIMPSON	2.94	0.770
MACINTOSH	0.436	0.670	SHELDON		0.525
EXP. PIELOU	3.68		HEIP		0.446

MONTH 9 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas erosa	6
Cryptomonas ovata	13
Cryptomonas sp.1	28
PYROPHYTA	
DINOPHYCEAE	
Gymnodinium simplex	14
Prorocentrum micans	16
CHRYSOPHYTA	
Calycomonas ovalis	6
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Asterionella gracilus	1
Cyclotella sp.	7
Skeletonema costatum	290
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	119

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	8.6
DINOFLAGELLATES	5.5
BACILLARIOPHYCEAE (DIATOMS)	54.5
CYANOPHYTA (BLUE-GREEN ALGAE)	21.8

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY		
PIELOU BASE E	1.30	0.566	MARGALEV	1.45	
PIELOU BASE 10	0.57	0.566	SIMPSON	2.51	0.668
MACINTOSH	0.385	0.539	SHELDON		0.368
EXP. PIELOU	3.68		HEIP		0.298

MONTH 9 YEAR 2001 STATION 104

CHLOROPHYTA	
Spermatozoopsis exultans	7
PYROPHYTA	
Cryptomonas sp.1	60
PYROPHYTA	
DINOPHYCEAE	
Gymnodinium simplex	37
CHRYSTOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	143
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	253

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	1.2
EUGLENO+PYROPHYTA (FLAGELLATES)	10.7
DINOFLAGELLATES	6.6
BACILLARIOPHYCEAE (DIATOMS)	25.5
CYANOPHYTA (BLUE-GREEN ALGAE)	45.2

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.21	0.752	MARGALEV	0.64	
PIELOU BASE 10	0.53	0.752	SIMPSON	2.79	0.803
MACINTOSH	0.421	0.727	SHELDON		0.670
EXP. PIELOU	3.35		HEIP		0.588

MONTH 10 YEAR 2001 STATION 101

EUGLENOPHYTA	
Eutreptilla sp.	7
Phacus torta	3
PYROPHYTA	
Cryptomonas erosa	23
Cryptomonas sp.1	90
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	7
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella sp.	7
Skeletonema costatum	7
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	313
Spirulina laxa	3

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 460.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGALLATES)	21.5
DINOFLAGALLATES	1.2
BACILLARIOPHYCEAE (DIATOMS)	2.4
CYANOPHYTA (BLUE-GREEN ALGAE)	55.1

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	1.05	0.478	MARGALEV 1.30
PIELOU BASE 10	0.46	0.478	SIMPSON 1.98 0.557
MACINTOSH	0.304	0.434	SHELDON 0.318
EXP. PIELOU	2.86		HEIP 0.233

MONTH 10 YEAR 2001 STATION 102

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	14
EUGLENOPHYTA	
Euglena acus	4
PYROPHYTA	
Cryptomonas erosa	7
Cryptomonas sp.1	89
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	3
CHRYSTOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella sp.	2
Nitzschia spp.	2
Skeletonema costatum	216
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	163

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	2.3
EUGLENO+PYROPHYTA (FLAGALLATES)	16.8
DINOFLAGALLATES	0.5
BACILLARIOPHYCEAE (DIATOMS)	36.9
CYANOPHYTA (BLUE-GREEN ALGAE)	27.3

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	1.31	0.596	MARGALEV 1.29
PIELOU BASE 10	0.57	0.596	SIMPSON 3.07 0.759
MACINTOSH	0.449	0.644	SHELDON 0.411
EXP. PIELOU	3.70		HEIP 0.338

MONTH 10 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas erosa	15
Cryptomonas sp.1	23
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	3
CHRYSOPHYTA	
Calycomonas ovalis	7
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Nitzschia tryblionella	1
Nitzschia spp.	2
Skeletonema costatum	63
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	386

NUMBER OF TAXA 8 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	7.1
DINOFLAGELLATES	0.6
BACILLARIOPHYCEAE (DIATOMS)	12.3
CYANOPHYTA (BLUE-GREEN ALGAE)	71.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.83	0.400	MARGALEV	1.13	
PIELOU BASE 10	0.36	0.400	SIMPSON	1.63	0.440
MACINTOSH	0.226	0.334	SHELDON		0.287
EXP. PIELOU	2.30		HEIP		0.186

MONTH 10 YEAR 2001 STATION 104

CHLOROPHYTA	
Chlymentomonas sp.	3
PYROPHYTA	
Cryptomonas erosa	12
Cryptomonas sp.1	38
PYROPHYTA	
DINOPHYCEAE	
Dinophysus caudata	2
Gonyalux palustre	17
CHRYSOPHYTA	
Calycomonas ovalis	35
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	243
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	150

NUMBER OF TAXA 8 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.5
EUGLENO+PYROPHYTA (FLAGALLATES)	9.1
DINOFLAGALLATES	3.5
BACILLARIOPHYCEAE (DIATOMS)	44.2
CYANOPHYTA (BLUE-GREEN ALGAE)	27.3

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.35	0.650	MARGALEV	1.13	
PIELOU BASE 10	0.59	0.650	SIMPSON	2.95	0.756
MACINTOSH	0.438	0.647	SHELDON		0.483
EXP. PIELOU	3.86		HEIP		0.409

MONTH 11 YEAR 2001 STATION 101

CHLOROPHYTA		
Chlymentomonas sp.		3
Spermatozoopsis exultans		9
PYROPHYTA		
Cryptomonas erosa		33
Cryptomonas sp.1		107
PYROPHYTA		
DINOPHYCEAE		
Prorocentrum micans		1
CHRYSOPHYTA		
BACILLARIOPHYCEAE		
Navicula spp.		10
Nitzschia closterium		2
Nitzschia palea		2
Skeletonema costatum		63
CYANOPHYTA		
Synechocystis aquaticus Sauvageau		270

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	1.9
EUGLENO+PYROPHYTA (FLAGALLATES)	21.9
DINOFLAGALLATES	0.2
BACILLARIOPHYCEAE (DIATOMS)	12.0
CYANOPHYTA (BLUE-GREEN ALGAE)	42.2

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	1.34	0.582	MARGALEV 1.45
PIELOU BASE 10	0.58	0.582	SIMPSON 2.79 0.713
MACINTOSH	0.420	0.587	SHELDON 0.382
EXP. PIELOU	3.82		HEIP 0.314

MONTH 11 YEAR 2001 STATION 102

EUGLENOPHYTA	
Eutreptilla sp.	1
PYROPHYTA	
Cryptomonas sp.1	5
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Nitzschia palea	1
Skeletonema costatum	428
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	65

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	1.2
DINOFLAGELLATES	0.0
BACILLARIOPHYCEAE (DIATOMS)	85.0
CYANOPHYTA (BLUE-GREEN ALGAE)	12.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.47	0.292	MARGALEV	0.64	
PIELOU BASE 10	0.20	0.292	SIMPSON	1.33	0.313
MACINTOSH	0.140	0.243	SHELDON		0.320
EXP. PIELOU	1.60		HEIP		0.150

MONTH 11 YEAR 2001 STATION 103

PYROPHYTA	
Cryptomonas sp.1	5
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	1
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	461
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	33

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	1.0
DINOFLAGELLATES	0.2
BACILLARIOPHYCEAE (DIATOMS)	91.3
CYANOPHYTA (BLUE-GREEN ALGAE)	6.5

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.31	0.226	MARGALEV	0.48	
PIELOU BASE 10	0.14	0.226	SIMPSON	1.17	0.194
MACINTOSH	0.079	0.151	SHELDON		0.342
EXP. PIELOU	1.37		HEIP		0.122

MONTH 11 YEAR 2001 STATION 104

PYROPHYTA	
Cryptomonas sp.1	4
PYROPHYTA	
DINOPHYCEAE	
Dinophysus caudata	1
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Navicula spp.	1
Skeletonema costatum	420
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	74

NUMBER OF TAXA 5 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	0.8
DINOFLAGELLATES	0.2
BACILLARIOPHYCEAE (DIATOMS)	83.5
CYANOPHYTA (BLUE-GREEN ALGAE)	14.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	0.49	0.306	MARGALEV	0.64	
PIELOU BASE 10	0.21	0.306	SIMPSON	1.37	0.341
MACINTOSH	0.154	0.266	SHELDON		0.327
EXP. PIELOU	1.64		HEIP		0.159

MONTH 12 YEAR 2001 STATION 101

CHLOROPHYTA	
Spermatozoopsis exultans	30
EUGLENOPHYTA	
Euglena spirogyra	1
PYROPHYTA	
Cryptomonas erosa	15
Cryptomonas sp.1	3
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	13
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella undulata	3
Nitzschia palea	3
Skeletonema costatum	33
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	399

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	5.8
EUGLENO+PYROPHYTA (FLAGALLATES)	3.7
DINOFLAGALLATES	2.5
BACILLARIOPHYCEAE (DIATOMS)	7.5
CYANOPHYTA (BLUE-GREEN ALGAE)	77.0

DIVERSITY AND EVENNESS INDICES

EVENNESS	DIVERSITY	EVENNESS	DIVERSITY
PIELOU BASE E	0.83	0.379	MARGALEV 1.29
PIELOU BASE 10	0.36	0.379	SIMPSON 1.55 0.398
MACINTOSH	0.205	0.294	SHELDON 0.256
EXP. PIELOU	2.30		HEIP 0.162

MONTH 12 YEAR 2001 STATION 102

EUGLENOPHYTA	
Eutreptilla sp.	1
PYROPHYTA	
Cryptomonas erosa	24
Cryptomonas ovata	15
Cryptomonas sp.1	178
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	6
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella undulata	1
Skeletonema costatum	26
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	249

NUMBER OF TAXA 8 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	30.4
DINOFLAGELLATES	0.8
BACILLARIOPHYCEAE (DIATOMS)	3.8
CYANOPHYTA (BLUE-GREEN ALGAE)	34.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.20	0.576	MARGALEV	1.13	
PIELOU BASE 10	0.52	0.576	SIMPSON	2.63	0.708
MACINTOSH	0.401	0.592	SHELDON		0.414
EXP. PIELOU	3.31		HEIP		0.330

MONTH 12 YEAR 2001 STATION 103

CHLOROPHYTA	
Scenedesmus quadricauda v. Westii	20
PYROPHYTA	
Cryptomonas sp.1	204
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	23
CHRY SOPHYTA	
BACILLARIOPHYCEAE	
Cyclotella undulata	1
Skeletonema costatum	71
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	181

NUMBER OF TAXA 6 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	2.8
EUGLENO+PYROPHYTA (FLAGELLATES)	29.0
DINOFLAGELLATES	3.3
BACILLARIOPHYCEAE (DIATOMS)	10.2
CYANOPHYTA (BLUE-GREEN ALGAE)	25.7

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.29	0.722	MARGALEV	0.80	
PIELOU BASE 10	0.56	0.722	SIMPSON	3.11	0.814
MACINTOSH	0.453	0.732	SHELDON		0.608
EXP. PIELOU	3.65		HEIP		0.529

MONTH 12 YEAR 2001 STATION 104

PYROPHYTA	
Cryptomonas sp.1	96
PYROPHYTA	
DINOPHYCEAE	
Gonyalux palustre	9
CHRYSOPHYTA	
BACILLARIOPHYCEAE	
Skeletonema costatum	151
CYANOPHYTA	
Synechocystis aquaticus Sauvageau	244

NUMBER OF TAXA 4 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

CHLOROPHYTA (GREEN ALGAE)	0.0
EUGLENO+PYROPHYTA (FLAGELLATES)	16.1
DINOFLAGELLATES	1.5
BACILLARIOPHYCEAE (DIATOMS)	25.3
CYANOPHYTA (BLUE-GREEN ALGAE)	40.9

DIVERSITY AND EVENNESS INDICES

	DIVERSITY	EVENNESS		DIVERSITY	
EVENNESS					
PIELOU BASE E	1.10	0.794	MARGALEV	0.48	
PIELOU BASE 10	0.48	0.794	SIMPSON	2.73	0.845
MACINTOSH	0.413	0.789	SHELDON		0.752
EXP. PIELOU	3.01		HEIP		0.669



Back to Start

APPENDIX E

Summary of *In Situ* Physical Water Column Data Collected at “Fixed” Sampling Locations

----- Month=January STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	9	-2.4	0.2	16.4	7.74	7.50	50144	32.9
2001	January	17	9	-2.4	0.5	16.1	7.76	7.50	50202	33.0
2001	January	17	9	-2.4	1.0	16.1	7.76	7.50	50285	32.1
2001	January	17	9	-2.4	1.5	16.0	7.66	7.50	50327	33.1
2001	January	17	9	-2.4	2.0	15.2	7.32	7.50	51743	34.1
2001	January	17	9	-2.4	2.5	15.0	7.13	7.48	51822	34.2
2001	January	17	9	-2.4	3.0	15.0	7.15	7.48	51838	34.2
2001	January	17	9	-2.4	3.5	15.0	7.11	7.48	51819	34.2
2001	January	17	9	-2.4	3.9	15.0	7.10	7.48	51803	34.2

----- Month=January STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	10	6.6	0.2	17.3	7.34	7.49	46327	30.1
2001	January	17	10	6.6	0.5	16.6	7.30	7.50	47739	31.1
2001	January	17	10	6.6	1.0	16.3	7.22	7.50	48495	31.7
2001	January	17	10	6.6	1.5	16.2	7.21	7.49	48638	31.8
2001	January	17	10	6.6	2.0	15.7	6.99	7.49	49903	32.8
2001	January	17	10	6.6	2.3	15.7	6.95	7.49	49947	32.8

----- Month=January STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	11	10.5	0.2	18.8	7.52	7.51	40033	25.5
2001	January	17	11	10.5	0.5	18.5	7.39	7.51	40257	25.7
2001	January	17	11	10.5	1.0	18.1	7.23	7.51	41491	26.6
2001	January	17	11	10.5	1.5	17.9	7.04	7.49	42851	27.6
2001	January	17	11	10.5	2.0	17.6	6.85	7.48	43574	28.2
2001	January	17	11	10.5	2.5	17.6	6.78	7.47	43651	28.2
2001	January	17	11	10.5	3.0	17.6	6.72	7.47	43649	28.2

----- Month=January STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	12	15.5	0.2	19.6	8.88	7.63	25465	15.3
2001	January	17	12	15.5	0.5	19.7	8.45	7.59	25719	15.7
2001	January	17	12	15.5	1.0	19.0	7.85	7.54	29118	17.9
2001	January	17	12	15.5	1.5	18.8	7.61	7.51	29802	18.4
2001	January	17	12	15.5	2.0	18.8	7.39	7.50	30170	18.7
2001	January	17	12	15.5	2.5	18.8	7.28	7.48	30614	19.0
2001	January	17	12	15.5	3.0	18.7	6.88	7.44	31002	19.3

----- Month=January STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	13	20.1	0.2	19.8	10.73	7.90	18439	10.8
2001	January	17	13	20.1	0.5	19.6	10.40	7.83	19346	11.5
2001	January	17	13	20.1	1.0	19.1	9.97	7.77	20376	12.1
2001	January	17	13	20.1	1.5	18.7	8.59	7.59	21966	13.2
2001	January	17	13	20.1	2.0	18.6	8.24	7.55	22779	13.7
2001	January	17	13	20.1	2.5	18.6	8.00	7.53	23367	14.0
2001	January	17	13	20.1	3.0	18.6	7.87	7.51	23947	14.5
2001	January	17	13	20.1	3.5	18.6	7.48	7.47	24068	14.6
2001	January	17	13	20.1	3.9	18.6	7.22	7.44	24131	14.6

----- Month=January STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	14	23.6	0.2	20.5	12.11	8.18	7431	4.2
2001	January	17	14	23.6	0.5	20.6	12.13	8.21	7525	4.2
2001	January	17	14	23.6	1.0	20.1	12.07	8.18	7647	4.3
2001	January	17	14	23.6	1.5	19.3	11.75	8.05	8498	4.8
2001	January	17	14	23.6	2.0	18.6	11.09	7.94	9155	5.2
2001	January	17	14	23.6	2.5	18.4	10.55	7.84	10305	5.9
2001	January	17	14	23.6	3.0	18.4	10.15	7.80	11646	6.6
2001	January	17	14	23.6	3.2	18.4	9.63	7.72	12675	7.2

----- Month=January STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	15	25.9	0.2	19.1	11.88	8.28	2350	1.3
2001	January	17	15	25.9	0.5	19.1	11.92	8.27	2325	1.2
2001	January	17	15	25.9	1.0	19.0	11.78	8.26	2407	1.3

----- Month=January STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	17	29.5	0.2	19.0	11.46	8.30	1126	0.6
2001	January	17	17	29.5	0.5	19.0	11.37	8.29	1125	0.6
2001	January	17	17	29.5	1.0	19.0	11.28	8.29	1125	0.6
2001	January	17	17	29.5	1.5	19.0	11.26	8.29	1125	0.6

----- Month=January STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	18	30.4	0.2	19.5	11.28	8.30	1089	0.6
2001	January	17	18	30.4	0.5	19.5	11.09	8.31	1084	0.6
2001	January	17	18	30.4	1.0	19.0	10.72	8.24	1081	0.6
2001	January	17	18	30.4	1.5	19.0	10.80	8.24	1081	0.6
2001	January	17	18	30.4	2.0	18.9	11.05	8.30	1088	0.6
2001	January	17	18	30.4	2.5	18.9	11.06	8.30	1090	0.6
2001	January	17	18	30.4	3.0	18.9	11.11	8.31	1090	0.6
2001	January	17	18	30.4	3.3	18.9	11.07	8.30	1089	0.6

----- Month=January STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	19	32.3	0.2	18.9	9.17	7.96	1001	0.5
2001	January	17	19	32.3	0.5	18.9	9.08	7.94	1001	0.5
2001	January	17	19	32.3	1.0	18.9	9.01	7.94	1002	0.5
2001	January	17	19	32.3	1.5	18.9	9.02	7.92	1002	0.5
2001	January	17	19	32.3	2.0	18.9	8.96	7.93	1001	0.5
2001	January	17	19	32.3	2.5	18.9	8.91	7.92	1001	0.5
2001	January	17	19	32.3	3.0	18.9	8.91	7.92	1001	0.5
2001	January	17	19	32.3	3.2	18.9	8.88	7.92	1001	0.5

----- Month=January STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	21	8.4	0.2	18.0	7.66	7.52	44153	28.4
2001	January	17	21	8.4	0.5	17.0	7.40	7.52	46745	30.5
2001	January	17	21	8.4	1.0	16.7	7.21	7.50	47417	30.9
2001	January	17	21	8.4	1.5	16.5	7.05	7.49	47723	31.1
2001	January	17	21	8.4	1.7	16.5	7.00	7.49	47723	31.2

----- Month=January STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	22	12.8	0.2	19.9	7.81	7.54	30656	18.9
2001	January	17	22	12.8	0.5	19.1	7.67	7.53	31877	19.9
2001	January	17	22	12.8	1.0	18.6	7.15	7.47	34321	21.6
2001	January	17	22	12.8	1.5	18.5	6.83	7.45	35578	22.4
2001	January	17	22	12.8	2.0	18.5	6.88	7.47	36577	23.1
2001	January	17	22	12.8	2.5	18.5	6.81	7.46	36866	23.4
2001	January	17	22	12.8	3.0	18.5	6.78	7.46	36894	23.4

----- Month=January STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	23	17.5	0.2	20.1	9.54	7.78	21191	12.8
2001	January	17	23	17.5	0.5	19.2	9.08	7.66	23479	13.9
2001	January	17	23	17.5	1.0	18.9	8.45	7.56	25352	15.4
2001	January	17	23	17.5	1.5	18.8	8.17	7.53	25787	15.7

----- Month=January STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	24	21.9	0.2	19.7	12.56	8.16	11485	6.6
2001	January	17	24	21.9	0.5	19.5	12.17	8.06	11843	6.9
2001	January	17	24	21.9	1.0	19.0	11.40	7.96	13645	7.7
2001	January	17	24	21.9	1.5	18.8	10.82	7.88	14799	8.6

----- Month=January STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	25	24.7	0.2	19.8	12.22	8.23	5070	2.8
2001	January	17	25	24.7	0.5	19.4	12.01	8.19	5242	2.9
2001	January	17	25	24.7	1.0	19.1	11.62	8.08	5670	3.2
2001	January	17	25	24.7	1.5	18.6	10.93	7.95	6449	3.6

----- Month=January STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	92	12.7	0.2	20.0	7.36	7.49	33051	20.8
2001	January	17	92	12.7	0.5	18.9	7.30	7.48	34018	21.3
2001	January	17	92	12.7	1.0	19.0	7.23	7.49	35098	22.1
2001	January	17	92	12.7	1.5	18.7	7.26	7.49	35567	22.4
2001	January	17	92	12.7	2.0	18.7	7.17	7.49	35729	22.5
2001	January	17	92	12.7	2.5	18.7	7.16	7.48	35743	22.5
2001	January	17	92	12.7	3.0	18.7	7.07	7.48	35815	22.6
2001	January	17	92	12.7	3.5	18.8	7.05	7.48	36082	22.8

----- Month=February STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	9	-2.4	0.2	20.8	6.46	7.84	50570	33.2
2001	February	14	9	-2.4	0.5	20.8	6.42	7.84	50554	33.2
2001	February	14	9	-2.4	1.0	20.8	6.41	7.84	50554	33.2
2001	February	14	9	-2.4	1.5	20.8	6.41	7.84	50539	33.2
2001	February	14	9	-2.4	2.0	20.8	6.39	7.84	50536	33.2
2001	February	14	9	-2.4	2.5	20.7	6.29	7.83	50893	33.3
2001	February	14	9	-2.4	3.0	20.4	5.59	7.78	50963	33.5
2001	February	14	9	-2.4	3.5	20.4	5.55	7.78	50945	33.5
2001	February	14	9	-2.4	3.8	20.4	5.51	7.78	50951	33.5

----- Month=February STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	10	6.6	0.2	21.6	6.37	7.78	45973	29.9
2001	February	14	10	6.6	0.5	21.6	6.18	7.77	46123	30.0
2001	February	14	10	6.6	1.0	21.6	6.11	7.77	46233	30.1
2001	February	14	10	6.6	1.5	21.6	5.94	7.76	46708	30.4
2001	February	14	10	6.6	2.0	21.7	5.74	7.76	47998	31.2
2001	February	14	10	6.6	2.3	21.7	5.56	7.75	48073	31.4

----- Month=February STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	11	10.5	0.2	22.4	6.18	7.75	37444	23.7
2001	February	14	11	10.5	0.5	22.4	6.11	7.75	37575	23.9
2001	February	14	11	10.5	1.0	22.4	6.10	7.75	37831	24.1
2001	February	14	11	10.5	1.5	21.9	5.86	7.74	41145	26.3
2001	February	14	11	10.5	2.0	21.9	5.65	7.73	41813	26.9
2001	February	14	11	10.5	2.5	21.9	5.47	7.71	42080	27.1
2001	February	14	11	10.5	2.9	22.0	5.39	7.71	42089	27.1

----- Month=February STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	12	15.5	0.2	23.6	7.48	7.86	25264	15.4
2001	February	14	12	15.5	0.5	23.2	6.78	7.77	25855	15.7
2001	February	14	12	15.5	1.0	23.2	5.72	7.64	28365	17.4
2001	February	14	12	15.5	1.5	23.1	5.78	7.68	29087	17.9
2001	February	14	12	15.5	2.0	23.2	5.55	7.67	29885	18.5
2001	February	14	12	15.5	2.5	23.3	5.50	7.66	30286	18.8
2001	February	14	12	15.5	3.0	23.4	5.10	7.63	30533	18.9

----- Month=February STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	13	20.1	0.2	24.0	6.29	7.58	16556	9.7
2001	February	14	13	20.1	0.5	23.7	6.02	7.56	16933	10.0
2001	February	14	13	20.1	1.0	23.4	5.31	7.46	18232	10.8
2001	February	14	13	20.1	1.5	23.4	5.39	7.47	18321	10.9
2001	February	14	13	20.1	2.0	23.4	5.33	7.49	19164	11.1
2001	February	14	13	20.1	2.5	23.4	5.04	7.45	19702	11.7
2001	February	14	13	20.1	3.0	23.3	4.59	7.41	20940	12.5
2001	February	14	13	20.1	3.5	23.2	4.41	7.42	21870	13.1
2001	February	14	13	20.1	4.0	23.2	4.40	7.43	22252	13.3
2001	February	14	13	20.1	4.5	23.2	4.20	7.40	22354	13.4

----- Month=February STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	14	23.6	0.2	24.2	10.08	8.27	6298	3.5
2001	February	14	14	23.6	0.5	24.2	10.04	8.28	6216	3.4
2001	February	14	14	23.6	1.0	24.2	9.46	8.16	6787	3.8
2001	February	14	14	23.6	1.5	23.9	8.80	7.99	7303	4.1
2001	February	14	14	23.6	2.0	23.6	8.30	7.89	7260	4.0
2001	February	14	14	23.6	2.5	23.5	7.84	7.80	7652	4.3
2001	February	14	14	23.6	3.0	23.5	7.22	7.68	8094	4.5

----- Month=February STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	15	25.9	0.2	23.9	7.88	7.66	1422	0.8
2001	February	14	15	25.9	0.5	23.7	7.50	7.57	1461	0.8
2001	February	14	15	25.9	1.0	23.7	7.33	7.55	1465	0.8

----- Month=February STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	17	29.5	0.2	24.3	6.29	7.56	882	0.5
2001	February	14	17	29.5	0.5	24.2	6.17	7.55	882	0.5
2001	February	14	17	29.5	1.0	24.2	6.13	7.54	883	0.5
2001	February	14	17	29.5	1.5	24.1	6.47	7.58	894	0.5
2001	February	14	17	29.5	2.0	23.9	6.75	7.62	934	0.5
2001	February	14	17	29.5	2.5	23.7	6.84	7.62	941	0.5
2001	February	14	17	29.5	3.0	23.7	6.87	7.63	942	0.5
2001	February	14	17	29.5	3.4	23.6	6.73	7.62	943	0.5

----- Month=February STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	18	30.4	0.2	23.9	6.30	7.64	855	0.4
2001	February	14	18	30.4	0.5	24.0	6.19	7.64	855	0.4
2001	February	14	18	30.4	1.0	24.0	6.05	7.64	856	0.4
2001	February	14	18	30.4	1.5	24.0	5.81	7.64	851	0.4
2001	February	14	18	30.4	2.0	23.8	5.65	7.61	850	0.4
2001	February	14	18	30.4	2.5	23.7	5.69	7.62	851	0.4
2001	February	14	18	30.4	3.0	23.7	5.64	7.60	852	0.4

----- Month=February STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	19	32.3	0.2	24.0	6.30	7.86	815	0.4
2001	February	14	19	32.3	0.5	23.9	6.27	7.85	815	0.4
2001	February	14	19	32.3	1.0	24.0	6.25	7.85	816	0.4
2001	February	14	19	32.3	1.5	23.9	6.23	7.86	816	0.4
2001	February	14	19	32.3	2.0	23.9	6.18	7.85	815	0.4
2001	February	14	19	32.3	2.5	23.9	6.17	7.85	816	0.4
2001	February	14	19	32.3	2.8	23.9	6.15	7.85	816	0.4

----- Month=February STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	21	8.4	0.2	22.1	6.18	7.76	41281	26.5
2001	February	14	21	8.4	0.5	22.0	6.01	7.75	41769	27.2
2001	February	14	21	8.4	1.0	21.7	5.70	7.74	44122	28.5
2001	February	14	21	8.4	1.5	21.8	5.61	7.73	44217	28.6

----- Month=February STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	22	12.8	0.2	23.6	6.69	7.78	30242	18.7
2001	February	14	22	12.8	0.5	23.2	6.06	7.73	31067	19.7
2001	February	14	22	12.8	1.0	22.6	5.82	7.72	33655	21.1
2001	February	14	22	12.8	1.5	22.6	5.56	7.70	34330	21.5
2001	February	14	22	12.8	2.0	22.5	5.50	7.70	35113	27.1
2001	February	14	22	12.8	2.5	22.5	5.48	7.70	35584	22.4
2001	February	14	22	12.8	3.0	22.5	5.33	7.69	35786	22.6

----- Month=February STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	23	17.5	0.2	23.8	6.49	7.65	19168	11.3
2001	February	14	23	17.5	0.5	23.3	5.50	7.55	22706	13.6
2001	February	14	23	17.5	1.0	23.3	5.03	7.50	23950	14.6
2001	February	14	23	17.5	1.2	23.3	4.86	7.50	24426	14.8

----- Month=February STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	24	21.9	0.2	23.9	7.96	7.85	9146	5.2
2001	February	14	24	21.9	0.5	23.7	7.42	7.75	10021	5.3
2001	February	14	24	21.9	1.0	23.2	6.56	7.58	11310	6.3
2001	February	14	24	21.9	1.5	23.1	5.95	7.51	12162	7.0
2001	February	14	24	21.9	1.9	23.1	5.68	7.47	12405	7.1

----- Month=February STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	25	24.7	0.2	23.8	9.46	8.03	3409	1.9
2001	February	14	25	24.7	0.5	23.8	9.29	8.01	3414	1.9
2001	February	14	25	24.7	1.0	23.5	8.70	7.87	4074	2.2
2001	February	14	25	24.7	1.4	23.1	7.11	7.61	5451	3.0

----- Month=February STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	92	12.7	0.2	23.1	6.54	7.74	31160	19.4
2001	February	14	92	12.7	0.5	22.9	6.03	7.72	32600	20.4
2001	February	14	92	12.7	1.0	22.6	5.93	7.73	34016	21.4
2001	February	14	92	12.7	1.5	22.5	5.74	7.71	34579	21.7
2001	February	14	92	12.7	2.0	22.5	5.72	7.71	34661	21.8
2001	February	14	92	12.7	2.5	22.5	5.55	7.70	34759	21.9
2001	February	14	92	12.7	3.0	22.5	5.50	7.70	34785	21.9
2001	February	14	92	12.7	3.2	22.5	5.43	7.69	34804	21.9

----- Month=March STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	9	-2.4	0.2	23.0	6.76	7.70	51771	34.1
2001	March	15	9	-2.4	0.5	23.0	6.68	7.71	51796	34.1
2001	March	15	9	-2.4	1.0	23.0	6.68	7.71	51788	34.1
2001	March	15	9	-2.4	1.5	23.0	6.70	7.71	51760	34.1
2001	March	15	9	-2.4	2.0	23.0	6.67	7.72	51777	34.1
2001	March	15	9	-2.4	2.5	23.0	6.67	7.72	51805	34.1
2001	March	15	9	-2.4	3.0	23.0	6.65	7.73	51766	34.1
2001	March	15	9	-2.4	3.5	23.0	6.61	7.73	51767	34.1
2001	March	15	9	-2.4	4.0	23.0	6.45	7.71	51737	34.1

----- Month=March STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	10	6.6	0.2	24.0	5.72	7.54	48908	32.0
2001	March	15	10	6.6	0.5	24.0	5.56	7.54	48898	32.0
2001	March	15	10	6.6	1.0	24.0	5.55	7.54	48887	32.0
2001	March	15	10	6.6	1.5	24.0	5.53	7.54	48909	32.0
2001	March	15	10	6.6	2.0	24.0	5.40	7.53	48941	32.0
2001	March	15	10	6.6	2.4	24.0	4.93	7.50	48923	32.0

----- Month=March STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	11	10.5	0.2	24.5	5.61	7.48	43830	28.3
2001	March	15	11	10.5	0.5	24.5	5.30	7.47	43822	28.3
2001	March	15	11	10.5	1.0	24.4	5.28	7.47	43868	28.4
2001	March	15	11	10.5	1.5	24.3	5.05	7.46	44509	28.8
2001	March	15	11	10.5	2.0	24.3	4.97	7.45	44642	28.9
2001	March	15	11	10.5	2.5	24.3	4.90	7.45	44913	29.1
2001	March	15	11	10.5	3.0	24.3	4.85	7.44	44903	29.1
2001	March	15	11	10.5	3.2	24.3	4.82	7.44	44901	29.1

----- Month=March STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	12	15.5	0.2	24.6	5.49	7.42	35602	22.5
2001	March	15	12	15.5	0.5	24.6	5.42	7.41	35609	22.5
2001	March	15	12	15.5	1.0	24.6	5.41	7.41	35661	22.5
2001	March	15	12	15.5	1.5	24.5	5.38	7.41	35691	22.5
2001	March	15	12	15.5	2.0	24.5	5.22	7.39	35780	22.6
2001	March	15	12	15.5	2.5	24.5	5.13	7.38	36013	22.7
2001	March	15	12	15.5	3.0	24.4	5.05	7.38	36093	22.8
2001	March	15	12	15.5	3.4	24.3	4.90	7.37	36214	22.9

----- Month=March STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	13	20.1	0.2	24.8	5.21	7.27	28245	17.4
2001	March	15	13	20.1	0.5	24.8	5.18	7.26	25260	17.4
2001	March	15	13	20.1	1.0	24.8	4.91	7.22	28188	17.4
2001	March	15	13	20.1	1.5	24.5	4.79	7.20	28289	17.4
2001	March	15	13	20.1	2.0	24.4	4.52	7.18	28579	17.6
2001	March	15	13	20.1	2.5	24.4	4.62	7.21	28684	17.7
2001	March	15	13	20.1	3.0	24.4	4.60	7.20	28773	17.7
2001	March	15	13	20.1	3.5	24.4	4.51	7.20	28807	17.8
2001	March	15	13	20.1	4.0	24.4	4.46	7.18	28842	17.8
2001	March	15	13	20.1	4.5	24.4	4.48	7.18	28833	17.8
2001	March	15	13	20.1	5.0	24.4	4.50	7.21	28869	17.8
2001	March	15	13	20.1	5.2	24.4	4.48	7.20	28851	17.8

----- Month=March STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	14	23.6	0.2	25.1	5.82	7.17	17697	10.4
2001	March	15	14	23.6	0.5	25.1	5.71	7.17	17637	10.4
2001	March	15	14	23.6	1.0	25.0	5.68	7.16	17652	10.4
2001	March	15	14	23.6	1.5	24.6	4.87	7.05	18180	10.7
2001	March	15	14	23.6	2.0	24.5	4.63	7.04	18687	11.1
2001	March	15	14	23.6	2.5	24.4	4.49	7.02	18714	11.1
2001	March	15	14	23.6	3.0	24.4	4.33	7.00	18804	11.1
2001	March	15	14	23.6	3.5	24.3	4.09	6.99	19073	11.3
2001	March	15	14	23.6	3.8	24.3	3.97	6.97	19126	11.3

----- Month=March STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	15	25.9	0.2	25.3	6.94	7.24	10974	6.2
2001	March	15	15	25.9	0.5	25.4	6.42	7.23	10993	6.3
2001	March	15	15	25.9	1.0	25.1	5.64	7.13	11347	6.5

----- Month=March STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	17	29.5	0.2	24.6	6.15	7.30	3150	1.6
2001	March	15	17	29.5	0.5	24.6	5.82	7.25	3236	1.8
2001	March	15	17	29.5	1.0	24.5	5.80	7.23	3304	1.8
2001	March	15	17	29.5	1.5	24.5	5.69	7.21	3339	1.8
2001	March	15	17	29.5	2.0	24.6	5.82	7.24	3285	1.8
2001	March	15	17	29.5	2.5	24.5	5.66	7.23	3285	1.8
2001	March	15	17	29.5	3.0	24.3	5.48	7.19	3411	1.9
2001	March	15	17	29.5	3.5	24.3	5.35	7.19	3431	1.8
2001	March	15	17	29.5	4.0	24.0	5.01	7.13	3745	2.1

----- Month=March STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	18	30.4	0.2	24.7	6.43	7.36	2269	1.2
2001	March	15	18	30.4	0.5	24.7	6.24	7.32	2272	1.2
2001	March	15	18	30.4	1.0	24.6	6.06	7.31	2298	1.2
2001	March	15	18	30.4	1.5	24.6	6.00	7.26	2304	1.2
2001	March	15	18	30.4	2.0	24.5	5.84	7.25	2324	1.3
2001	March	15	18	30.4	2.5	24.4	5.54	7.22	2392	1.3
2001	March	15	18	30.4	3.0	24.4	5.39	7.21	2435	1.3
2001	March	15	18	30.4	3.5	24.3	5.12	7.18	2468	1.3
2001	March	15	18	30.4	4.0	24.2	4.92	7.16	2479	1.3

----- Month=March STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	19	32.3	0.2	24.6	5.26	7.31	1313	0.7
2001	March	15	19	32.3	0.5	24.6	5.15	7.31	1310	0.7
2001	March	15	19	32.3	1.0	24.7	5.10	7.30	1296	0.7
2001	March	15	19	32.3	1.5	24.6	5.12	7.31	1315	0.7
2001	March	15	19	32.3	2.0	24.7	5.09	7.30	1304	0.7
2001	March	15	19	32.3	2.5	24.7	5.09	7.31	1332	0.7
2001	March	15	19	32.3	3.0	24.7	5.04	7.31	1305	0.7
2001	March	15	19	32.3	3.5	24.7	5.11	7.31	1305	0.7

----- Month=March STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	21	8.4	0.2	24.1	5.39	7.48	47024	30.6
2001	March	15	21	8.4	0.5	24.1	5.26	7.48	47033	30.7
2001	March	15	21	8.4	1.0	24.1	5.19	7.48	47051	30.7
2001	March	15	21	8.4	1.5	24.1	5.17	7.48	47049	30.7
2001	March	15	21	8.4	2.0	24.1	5.09	7.48	47022	30.6

----- Month=March STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	22	12.8	0.2	24.5	5.31	7.43	39838	29.4
2001	March	15	22	12.8	0.5	24.5	5.23	7.43	39851	29.5
2001	March	15	22	12.8	1.0	24.5	5.19	7.43	39828	29.4
2001	March	15	22	12.8	1.5	24.4	5.06	7.42	40118	29.7
2001	March	15	22	12.8	2.0	24.4	5.06	7.42	40171	29.7
2001	March	15	22	12.8	2.5	24.4	4.95	7.42	40211	29.7
2001	March	15	22	12.8	3.0	24.4	4.96	7.42	40301	29.8
2001	March	15	22	12.8	3.5	24.4	4.92	7.41	40308	29.8

----- Month=March STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	23	17.5	0.2	24.6	5.73	7.39	32012	20.0
2001	March	15	23	17.5	0.5	24.6	5.65	7.38	31968	19.9
2001	March	15	23	17.5	1.0	24.6	5.59	7.38	32080	20.0
2001	March	15	23	17.5	1.5	24.6	5.55	7.39	32533	20.3
2001	March	15	23	17.5	1.7	24.6	5.52	7.38	32516	20.3

----- Month=March STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	24	21.9	0.2	24.8	5.15	7.09	20541	12.2
2001	March	15	24	21.9	0.5	24.8	4.80	7.08	20592	12.3
2001	March	15	24	21.9	1.0	25.0	5.18	7.16	21247	12.8
2001	March	15	24	21.9	1.3	25.1	5.16	7.16	21564	12.9

----- Month=March STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	25	24.7	0.2	25.1	5.91	7.14	13741	7.9
2001	March	15	25	24.7	0.5	27.7	5.22	7.09	14333	8.2
2001	March	15	25	24.7	1.0	24.4	4.54	6.99	14714	8.6
2001	March	15	25	24.7	1.5	24.4	4.14	6.96	15158	8.8

----- Month=March STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	92	12.7	0.2	24.6	5.44	7.44	39074	24.9
2001	March	15	92	12.7	0.5	24.6	5.35	7.44	39117	24.9
2001	March	15	92	12.7	1.0	24.6	5.33	7.43	39108	25.0
2001	March	15	92	12.7	1.5	24.6	5.30	7.43	39165	25.0
2001	March	15	92	12.7	2.0	24.6	5.32	7.43	39158	25.0
2001	March	15	92	12.7	2.5	24.6	5.21	7.42	39312	25.1
2001	March	15	92	12.7	3.0	24.5	5.07	7.41	39442	25.2
2001	March	15	92	12.7	3.5	24.5	5.03	7.42	39486	25.2
2001	March	15	92	12.7	3.7	24.5	4.96	7.41	39502	25.2

----- Month=April STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	9	-2.4	0.2	23.8	5.37	7.75	50711	33.3
2001	April	27	9	-2.4	0.5	23.8	5.23	7.78	50654	33.3
2001	April	27	9	-2.4	1.0	23.8	5.16	7.80	50637	33.3
2001	April	27	9	-2.4	1.5	23.8	5.19	7.81	50647	33.3
2001	April	27	9	-2.4	2.0	23.8	5.17	7.82	50648	33.3
2001	April	27	9	-2.4	2.5	23.8	5.09	7.83	50664	33.3
2001	April	27	9	-2.4	3.0	23.8	5.08	7.83	50648	33.3
2001	April	27	9	-2.4	3.5	23.8	5.05	7.84	50673	33.3

----- Month=April STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	10	6.6	0.2	23.2	5.18	7.77	44552	28.8
2001	April	27	10	6.6	0.5	23.2	5.05	7.77	44567	28.9
2001	April	27	10	6.6	1.0	23.2	4.98	7.77	44690	29.0
2001	April	27	10	6.6	1.5	23.0	4.88	7.76	45129	29.4
2001	April	27	10	6.6	2.0	22.8	4.79	7.75	45478	29.5

----- Month=April STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	11	10.5	0.2	22.7	5.30	7.63	33082	20.7
2001	April	27	11	10.5	0.5	22.7	5.26	7.64	33125	20.7
2001	April	27	11	10.5	1.0	22.7	5.24	7.63	33792	20.9
2001	April	27	11	10.5	1.5	22.7	5.14	7.63	33917	21.2
2001	April	27	11	10.5	2.0	22.7	5.00	7.63	34753	21.8
2001	April	27	11	10.5	2.5	22.7	4.99	7.62	34858	21.9
2001	April	27	11	10.5	2.8	22.7	4.97	7.62	34859	21.9

----- Month=April STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	12	15.5	0.2	23.7	5.96	7.63	21513	12.9
2001	April	27	12	15.5	0.5	23.7	5.82	7.62	21391	12.9
2001	April	27	12	15.5	1.0	23.6	5.41	7.56	22661	13.7
2001	April	27	12	15.5	1.5	23.6	5.29	7.55	22999	13.8
2001	April	27	12	15.5	2.0	23.5	5.22	7.54	23082	13.9
2001	April	27	12	15.5	2.5	23.7	4.43	7.44	25334	15.4
2001	April	27	12	15.5	2.9	23.7	4.34	7.44	25336	15.4

----- Month=April STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	13	20.1	0.2	24.3	6.71	7.74	12899	7.4
2001	April	27	13	20.1	0.5	24.1	6.27	7.66	14032	8.1
2001	April	27	13	20.1	1.0	24.2	5.46	7.49	15039	8.7
2001	April	27	13	20.1	1.5	24.3	4.20	7.30	16713	9.8
2001	April	27	13	20.1	2.0	24.3	3.96	7.29	17140	10.1
2001	April	27	13	20.1	2.5	24.4	3.72	7.26	17674	10.4
2001	April	27	13	20.1	3.0	24.4	3.66	7.26	17701	10.4
2001	April	27	13	20.1	3.5	24.4	3.65	7.27	17717	10.4
2001	April	27	13	20.1	3.8	24.4	3.64	7.26	17834	10.5

----- Month=April STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	14	23.6	0.2	25.0	5.61	7.43	4308	3.4
2001	April	27	14	23.6	0.5	24.9	5.09	7.43	4341	2.4
2001	April	27	14	23.6	1.0	24.4	4.82	7.39	4440	2.4
2001	April	27	14	23.6	1.5	24.2	4.40	7.31	4912	2.7
2001	April	27	14	23.6	2.0	24.1	4.26	7.30	5066	2.8
2001	April	27	14	23.6	2.5	24.1	4.18	7.30	5074	2.8
2001	April	27	14	23.6	3.0	24.1	4.18	7.30	5088	2.8
2001	April	27	14	23.6	3.5	24.1	4.12	7.30	5090	2.8
2001	April	27	14	23.6	4.0	24.1	4.14	7.30	5092	2.8

----- Month=April STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	15	25.9	0.2	26.5	6.03	7.65	2011	1.1
2001	April	27	15	25.9	0.5	25.5	5.50	7.56	2011	1.1
2001	April	27	15	25.9	1.0	25.2	5.17	7.50	2071	1.1
2001	April	27	15	25.9	1.2	25.2	5.12	7.49	2076	1.1

----- Month=April STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	17	29.5	0.2	26.1	6.15	7.79	1023	0.5
2001	April	27	17	29.5	0.5	26.1	5.96	7.79	1022	0.5
2001	April	27	17	29.5	1.0	25.9	5.94	7.79	1021	0.5
2001	April	27	17	29.5	1.5	25.3	5.65	7.72	1017	0.5
2001	April	27	17	29.5	2.0	25.1	5.60	7.71	1018	0.5
2001	April	27	17	29.5	2.5	24.9	5.46	7.68	1020	0.5
2001	April	27	17	29.5	3.0	24.8	5.34	7.66	1023	0.5
2001	April	27	17	29.5	3.5	24.7	5.27	7.64	1023	0.5

----- Month=April STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	18	30.4	0.2	25.9	6.52	7.87	1006	0.5
2001	April	27	18	30.4	0.5	25.8	6.21	7.86	1005	0.5
2001	April	27	18	30.4	1.0	25.7	6.10	7.84	1005	0.5
2001	April	27	18	30.4	1.5	25.7	6.08	7.82	1006	0.5
2001	April	27	18	30.4	2.0	25.6	5.93	7.81	1006	0.5
2001	April	27	18	30.4	2.5	25.2	5.57	7.68	1004	0.5
2001	April	27	18	30.4	3.0	24.9	5.36	7.67	1008	0.5
2001	April	27	18	30.4	3.5	24.9	5.43	7.69	1008	0.5

----- Month=April STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	19	32.3	0.2	26.5	6.59	8.09	983	0.5
2001	April	27	19	32.3	0.5	26.1	6.27	8.08	984	0.5
2001	April	27	19	32.3	1.0	25.9	6.25	8.09	983	0.5
2001	April	27	19	32.3	1.5	25.8	6.36	8.14	983	0.5
2001	April	27	19	32.3	2.0	25.3	6.12	8.01	985	0.5
2001	April	27	19	32.3	2.5	25.2	5.94	7.99	986	0.5
2001	April	27	19	32.3	3.0	25.2	5.85	7.98	987	0.5
2001	April	27	19	32.3	3.5	25.2	5.88	7.98	987	0.5

----- Month=April STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	21	8.4	0.2	22.9	5.45	7.73	41097	26.4
2001	April	27	21	8.4	0.5	22.9	5.20	7.74	41159	26.4
2001	April	27	21	8.4	1.0	23.0	5.13	7.73	41595	26.6
2001	April	27	21	8.4	1.5	23.2	4.61	7.71	43793	28.3

----- Month=April STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	22	12.8	0.2	22.4	5.73	7.56	28365	17.5
2001	April	27	22	12.8	0.5	22.5	5.33	7.56	28386	17.4
2001	April	27	22	12.8	1.0	22.4	5.17	7.56	28377	17.4
2001	April	27	22	12.8	1.5	22.4	5.12	7.55	28486	17.5
2001	April	27	22	12.8	2.0	22.4	5.09	7.56	28787	17.7
2001	April	27	22	12.8	2.5	22.1	4.78	7.52	29399	18.2
2001	April	27	22	12.8	3.0	22.1	4.69	7.52	29536	18.2

----- Month=April STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	23	17.5	0.2	24.0	6.47	7.66	17119	10.0
2001	April	27	23	17.5	0.5	24.0	6.15	7.66	16970	10.0
2001	April	27	23	17.5	1.0	24.0	5.85	7.61	17236	10.2
2001	April	27	23	17.5	1.3	24.1	5.50	7.56	17738	10.4

----- Month=April STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	24	21.9	0.2	24.9	4.99	7.38	7961	4.5
2001	April	27	24	21.9	0.5	24.9	4.82	7.37	7954	4.5
2001	April	27	24	21.9	1.0	24.6	4.57	7.33	8400	4.7
2001	April	27	24	21.9	1.5	24.5	4.46	7.31	8931	5.0
2001	April	27	24	21.9	1.6	24.5	4.40	7.31	9009	5.1

----- Month=April STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	25	24.7	0.2	25.5	5.32	7.50	2972	1.6
2001	April	27	25	24.7	0.5	25.2	5.44	7.51	2969	1.6
2001	April	27	25	24.7	1.0	24.7	5.03	7.46	3075	1.7
2001	April	27	25	24.7	1.5	24.6	4.87	7.43	3093	1.7
2001	April	27	25	24.7	2.0	24.5	4.70	7.40	3084	1.7

----- Month=April STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	92	12.7	0.2	22.7	5.56	7.59	28578	17.6
2001	April	27	92	12.7	0.5	22.7	5.31	7.59	28643	17.7
2001	April	27	92	12.7	1.0	22.8	5.20	7.58	28766	17.7
2001	April	27	92	12.7	1.5	22.9	5.09	7.57	28895	17.8
2001	April	27	92	12.7	2.0	22.9	5.05	7.56	29008	17.9
2001	April	27	92	12.7	2.5	22.9	5.02	7.56	29051	17.9
2001	April	27	92	12.7	3.0	22.9	4.93	7.56	29044	17.9
2001	April	27	92	12.7	3.2	22.9	4.92	7.56	29060	17.9

----- Month=May STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	9	-2.4	0.2	28.8	6.67	7.95	56779	37.8
2001	May	29	9	-2.4	0.5	28.8	6.63	7.94	56789	37.9
2001	May	29	9	-2.4	1.0	28.8	6.66	7.95	56784	37.8
2001	May	29	9	-2.4	1.5	28.8	6.60	7.95	56739	37.9
2001	May	29	9	-2.4	2.0	28.7	6.53	7.93	56750	37.9
2001	May	29	9	-2.4	2.5	28.7	6.32	7.93	56764	37.8
2001	May	29	9	-2.4	3.0	28.7	6.30	7.93	56775	37.8
2001	May	29	9	-2.4	3.5	28.7	6.39	7.92	56762	37.9
2001	May	29	9	-2.4	4.0	28.7	6.28	7.92	56762	37.8

----- Month=May STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	10	6.6	0.2	28.9	5.78	7.86	53730	35.6
2001	May	29	10	6.6	0.5	28.9	5.65	7.86	53722	35.6
2001	May	29	10	6.6	1.0	28.8	5.59	7.86	53764	35.6
2001	May	29	10	6.6	1.5	28.8	5.41	7.85	53814	35.7
2001	May	29	10	6.6	2.0	28.7	5.14	7.84	53912	35.7
2001	May	29	10	6.6	2.5	28.7	5.19	7.85	54027	35.8

----- Month=May STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	11	10.5	0.2	28.7	5.21	7.67	49129	32.2
2001	May	29	11	10.5	0.5	28.7	5.12	7.67	49124	32.2
2001	May	29	11	10.5	1.0	28.7	5.18	7.67	49120	32.2
2001	May	29	11	10.5	1.5	28.5	4.97	7.66	49202	32.2
2001	May	29	11	10.5	2.0	28.5	4.65	7.64	49422	32.4
2001	May	29	11	10.5	2.5	28.5	4.56	7.64	49620	32.6
2001	May	29	11	10.5	3.0	28.4	4.33	7.63	49781	32.7

----- Month=May STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	12	15.5	0.2	28.4	5.25	7.42	42116	27.1
2001	May	29	12	15.5	0.5	28.4	5.06	7.41	42150	27.1
2001	May	29	12	15.5	1.0	28.3	5.03	7.40	42158	27.1
2001	May	29	12	15.5	1.5	28.2	4.76	7.38	42153	27.1
2001	May	29	12	15.5	2.0	27.9	4.59	7.36	42407	27.3
2001	May	29	12	15.5	2.5	27.7	4.36	7.35	42663	27.5
2001	May	29	12	15.5	3.0	27.7	4.23	7.33	42681	27.5
2001	May	29	12	15.5	3.5	27.7	4.22	7.33	42674	27.5

----- Month=May STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	13	20.1	0.2	29.2	4.48	7.20	34579	21.7
2001	May	29	13	20.1	0.5	29.0	4.28	7.17	34581	21.7
2001	May	29	13	20.1	1.0	28.3	3.56	7.11	35296	22.2
2001	May	29	13	20.1	1.5	28.2	3.36	7.09	35304	22.3
2001	May	29	13	20.1	2.0	28.2	3.35	7.09	35351	22.3
2001	May	29	13	20.1	2.5	28.2	3.32	7.09	35445	22.3
2001	May	29	13	20.1	3.0	28.2	3.31	7.09	35593	22.4
2001	May	29	13	20.1	3.5	28.2	3.24	7.08	35604	22.5
2001	May	29	13	20.1	4.0	28.2	3.18	7.08	35659	22.5

----- Month=May STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	14	23.6	0.2	29.8	6.35	7.26	23044	13.9
2001	May	29	14	23.6	0.5	29.7	6.26	7.27	23817	14.4
2001	May	29	14	23.6	1.0	29.7	6.04	7.24	23737	14.3
2001	May	29	14	23.6	1.5	28.8	4.88	7.07	24465	14.8
2001	May	29	14	23.6	2.0	28.4	4.54	7.03	24568	14.9
2001	May	29	14	23.6	2.5	28.3	4.18	7.00	24651	14.9
2001	May	29	14	23.6	3.0	28.3	4.03	6.99	24746	15.0
2001	May	29	14	23.6	3.5	28.0	3.40	6.94	25466	15.5
2001	May	29	14	23.6	4.0	28.0	3.21	6.93	25703	15.6

----- Month=May STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	15	25.9	0.2	30.3	7.98	7.55	15849	9.3
2001	May	29	15	25.9	0.5	29.5	7.59	7.45	16317	9.5
2001	May	29	15	25.9	1.0	28.6	6.98	7.28	16473	9.6
2001	May	29	15	25.9	1.2	28.3	6.48	7.19	16650	9.7

----- Month=May STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	17	29.5	0.2	28.7	7.51	7.47	5216	2.9
2001	May	29	17	29.5	0.5	28.1	7.08	7.35	5828	3.2
2001	May	29	17	29.5	1.0	28.6	6.93	7.31	6486	3.6
2001	May	29	17	29.5	1.5	28.2	6.45	7.25	6613	3.6
2001	May	29	17	29.5	2.0	28.1	6.51	7.26	7030	3.9
2001	May	29	17	29.5	2.5	28.3	6.46	7.25	7189	4.0
2001	May	29	17	29.5	3.0	28.1	5.95	7.18	7420	4.2
2001	May	29	17	29.5	3.5	28.0	5.70	7.15	7690	4.3
2001	May	29	17	29.5	4.0	27.9	5.14	7.09	8109	4.6
2001	May	29	17	29.5	4.5	27.9	5.12	7.09	8296	4.6

----- Month=May STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	18	30.4	0.2	28.9	7.11	7.41	3991	2.2
2001	May	29	18	30.4	0.5	28.8	6.82	7.34	4018	2.2
2001	May	29	18	30.4	1.0	28.7	7.02	7.37	4780	2.6
2001	May	29	18	30.4	1.5	28.6	6.99	7.35	4926	2.7
2001	May	29	18	30.4	2.0	28.4	6.55	7.29	5105	2.8
2001	May	29	18	30.4	2.5	28.2	5.86	7.19	5188	2.9
2001	May	29	18	30.4	3.0	28.0	5.54	7.18	5380	3.0
2001	May	29	18	30.4	3.5	28.0	5.19	7.12	5432	3.0
2001	May	29	18	30.4	4.0	28.0	4.94	7.09	5476	3.0

----- Month=May STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	19	32.3	0.2	29.6	6.07	7.35	2667	1.4
2001	May	29	19	32.3	0.5	29.3	5.96	7.34	2662	1.4
2001	May	29	19	32.3	1.0	29.2	5.73	7.30	2687	1.5
2001	May	29	19	32.3	1.5	28.7	5.25	7.24	2738	1.5
2001	May	29	19	32.3	2.0	28.7	5.13	7.22	2743	1.5
2001	May	29	19	32.3	2.5	28.7	5.19	7.23	2744	1.5
2001	May	29	19	32.3	3.0	28.7	5.16	7.23	2739	1.5
2001	May	29	19	32.3	3.5	28.7	5.12	7.22	2747	1.5

----- Month=May STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	21	8.4	0.2	28.8	5.51	7.83	53137	35.1
2001	May	29	21	8.4	0.5	28.8	5.48	7.83	53152	35.1
2001	May	29	21	8.4	1.0	28.8	5.45	7.83	53133	35.1
2001	May	29	21	8.4	1.5	28.8	5.39	7.82	53089	35.1
2001	May	29	21	8.4	2.0	28.7	5.28	7.82	53102	35.1

----- Month=May STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	22	12.8	0.2	28.6	5.13	7.53	45636	29.6
2001	May	29	22	12.8	0.5	28.4	5.08	7.54	46097	30.0
2001	May	29	22	12.8	1.0	28.3	4.98	7.53	46406	30.2
2001	May	29	22	12.8	1.5	28.3	4.91	7.53	46521	30.3
2001	May	29	22	12.8	2.0	28.3	4.82	7.53	46520	30.3
2001	May	29	22	12.8	2.5	28.3	4.76	7.52	46558	30.3
2001	May	29	22	12.8	3.0	28.2	4.69	7.52	46540	30.3
2001	May	29	22	12.8	3.5	28.2	4.61	7.51	46591	30.3

----- Month=May STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	23	17.5	0.2	28.8	4.91	7.30	38524	24.5
2001	May	29	23	17.5	0.5	28.8	4.78	7.30	38571	24.5
2001	May	29	23	17.5	1.0	28.8	4.99	7.34	38880	24.9
2001	May	29	23	17.5	1.5	28.8	4.81	7.32	39460	25.2
2001	May	29	23	17.5	1.8	28.6	4.59	7.30	39548	25.2

----- Month=May STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	24	21.9	0.2	29.2	5.35	7.19	25269	15.3
2001	May	29	24	21.9	0.5	29.3	5.18	7.13	25366	15.3
2001	May	29	24	21.9	1.0	29.3	4.88	7.11	26080	16.0
2001	May	29	24	21.9	1.5	28.9	4.24	7.08	30573	19.0
2001	May	29	24	21.9	2.0	28.7	3.76	7.03	30529	18.9

----- Month=May STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	25	24.7	0.2	30.0	7.32	7.37	19318	11.5
2001	May	29	25	24.7	0.5	28.6	6.34	7.18	20007	11.9
2001	May	29	25	24.7	1.0	28.9	6.37	7.21	20995	12.5
2001	May	29	25	24.7	1.5	28.4	5.37	7.08	21897	13.1
2001	May	29	25	24.7	2.0	28.2	4.71	7.00	21958	13.1

----- Month=May STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	92	12.7	0.2	28.6	5.29	7.50	44762	29.0
2001	May	29	92	12.7	0.5	28.5	5.22	7.50	45017	29.0
2001	May	29	92	12.7	1.0	28.5	5.09	7.51	45123	29.2
2001	May	29	92	12.7	1.5	28.5	5.09	7.51	45229	29.3
2001	May	29	92	12.7	2.0	28.4	4.77	7.49	45532	29.6
2001	May	29	92	12.7	2.5	28.3	4.67	7.48	45596	29.6
2001	May	29	92	12.7	3.0	28.2	4.54	7.47	45567	29.6
2001	May	29	92	12.7	3.5	28.2	4.48	7.48	45596	29.6
2001	May	29	92	12.7	4.0	28.2	4.50	7.47	45613	29.6

----- Month=June STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	9	-2.4	0.2	28.3	6.53	7.85	54576	36.2
2001	June	26	9	-2.4	0.5	28.3	6.48	7.86	54586	36.2
2001	June	26	9	-2.4	1.0	28.3	6.20	7.85	54667	36.3
2001	June	26	9	-2.4	1.5	28.4	5.78	7.83	54924	36.4
2001	June	26	9	-2.4	2.0	28.5	5.33	7.80	55172	36.7
2001	June	26	9	-2.4	2.5	28.7	4.63	7.76	55554	36.9
2001	June	26	9	-2.4	3.0	28.6	3.65	7.69	55851	37.2
2001	June	26	9	-2.4	3.5	28.6	3.14	7.67	55981	37.3
2001	June	26	9	-2.4	4.0	28.6	2.48	7.63	56340	37.5

----- Month=June STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	10	6.6	0.2	27.5	7.48	7.96	37743	24.3
2001	June	26	10	6.6	0.5	27.7	6.97	7.93	42590	28.0
2001	June	26	10	6.6	1.0	28.5	6.07	7.84	47626	31.4
2001	June	26	10	6.6	1.5	28.8	5.23	7.77	51365	33.8
2001	June	26	10	6.6	2.0	28.8	4.81	7.76	52055	34.3
2001	June	26	10	6.6	2.5	28.8	4.79	7.76	52072	34.4

----- Month=June STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	11	10.5	0.2	28.1	8.01	7.96	33476	20.5
2001	June	26	11	10.5	0.5	28.8	6.53	7.86	40806	26.0
2001	June	26	11	10.5	1.0	28.8	6.00	7.82	41452	26.6
2001	June	26	11	10.5	1.5	28.8	5.70	7.81	42999	27.7
2001	June	26	11	10.5	2.0	28.9	5.27	7.78	44518	28.8
2001	June	26	11	10.5	2.5	28.7	5.45	7.80	45664	29.7
2001	June	26	11	10.5	3.0	28.7	5.41	7.80	45763	29.7

----- Month=June STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	12	15.5	0.2	29.0	6.54	7.49	16186	9.5
2001	June	26	12	15.5	0.5	28.0	6.23	7.44	17478	10.3
2001	June	26	12	15.5	1.0	27.8	6.25	7.48	19534	11.6
2001	June	26	12	15.5	1.5	27.8	6.12	7.49	21497	12.9
2001	June	26	12	15.5	2.0	27.7	5.89	7.49	22599	13.6
2001	June	26	12	15.5	2.5	27.5	5.51	7.45	23274	14.0
2001	June	26	12	15.5	3.0	27.4	5.32	7.44	23689	14.3

----- Month=June STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	13	20.1	0.2	28.9	4.45	7.13	6685	3.7
2001	June	26	13	20.1	0.5	28.8	4.25	7.12	6572	3.6
2001	June	26	13	20.1	1.0	28.5	3.94	7.10	7238	3.9
2001	June	26	13	20.1	1.5	28.2	3.74	7.07	7316	4.3
2001	June	26	13	20.1	2.0	28.2	3.68	7.05	8457	5.0
2001	June	26	13	20.1	2.5	28.3	3.57	7.05	10839	6.2
2001	June	26	13	20.1	3.0	28.3	3.53	7.05	11334	6.5
2001	June	26	13	20.1	3.5	28.3	3.50	7.06	11718	6.7
2001	June	26	13	20.1	4.0	28.3	3.57	7.07	11954	6.8

----- Month=June STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	14	23.6	0.2	29.2	4.50	7.22	1184	0.6
2001	June	26	14	23.6	0.5	28.8	4.40	7.21	1170	0.6
2001	June	26	14	23.6	1.0	28.4	4.21	7.20	1168	0.6
2001	June	26	14	23.6	1.5	28.3	4.08	7.18	1167	0.6
2001	June	26	14	23.6	2.0	28.1	4.04	7.18	1183	0.6
2001	June	26	14	23.6	2.5	28.1	3.98	7.17	1203	0.6
2001	June	26	14	23.6	3.0	28.0	3.89	7.17	1215	0.6
2001	June	26	14	23.6	3.5	28.1	3.92	7.17	1222	0.7

----- Month=June STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	15	25.9	0.2	28.6	5.07	7.27	826	0.4
2001	June	26	15	25.9	0.5	28.5	4.96	7.27	826	0.4
2001	June	26	15	25.9	1.0	28.5	4.83	7.27	826	0.4

----- Month=June STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	17	29.5	0.2	28.4	5.46	7.34	760	0.4
2001	June	26	17	29.5	0.5	28.0	5.28	7.33	758	0.4
2001	June	26	17	29.5	1.0	27.9	5.16	7.32	750	0.4
2001	June	26	17	29.5	1.5	27.9	5.15	7.33	751	0.4
2001	June	26	17	29.5	2.0	27.9	5.10	7.32	751	0.4
2001	June	26	17	29.5	2.5	27.9	5.07	7.31	750	0.4
2001	June	26	17	29.5	3.0	27.9	5.06	7.31	750	0.4
2001	June	26	17	29.5	3.5	28.0	5.05	7.32	753	0.4
2001	June	26	17	29.5	4.0	27.9	4.99	7.32	749	0.4
2001	June	26	17	29.5	4.5	27.9	5.03	7.32	752	0.4

----- Month=June STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	18	30.4	0.2	28.1	5.30	7.32	749	0.4
2001	June	26	18	30.4	0.5	27.8	5.17	7.32	750	0.4
2001	June	26	18	30.4	1.0	27.4	5.04	7.31	736	0.4
2001	June	26	18	30.4	1.5	27.3	4.97	7.31	741	0.4
2001	June	26	18	30.4	2.0	27.3	5.02	7.31	742	0.4
2001	June	26	18	30.4	2.5	27.3	4.97	7.30	741	0.4
2001	June	26	18	30.4	3.0	27.3	4.90	7.30	742	0.4

----- Month=June STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	19	32.3	0.2	28.1	5.79	7.39	690	0.4
2001	June	26	19	32.3	0.5	28.0	5.62	7.38	691	0.4
2001	June	26	19	32.3	1.0	28.1	5.54	7.38	691	0.4
2001	June	26	19	32.3	1.5	28.0	5.54	7.38	691	0.4
2001	June	26	19	32.3	2.0	28.1	5.53	7.38	691	0.4
2001	June	26	19	32.3	2.5	28.1	5.54	7.38	691	0.4
2001	June	26	19	32.3	3.0	28.1	5.46	7.38	691	0.4
2001	June	26	19	32.3	3.5	28.1	5.47	7.38	691	0.4

----- Month=June STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	21	8.4	0.2	27.9	8.12	7.99	35986	22.7
2001	June	26	21	8.4	0.5	28.0	7.09	7.94	43964	27.7
2001	June	26	21	8.4	1.0	28.6	6.24	7.86	46999	30.6
2001	June	26	21	8.4	1.5	28.7	5.74	7.84	47250	30.8
2001	June	26	21	8.4	2.0	28.7	5.60	7.83	47302	30.8

----- Month=June STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	22	12.8	0.2	29.2	8.45	7.90	23543	14.3
2001	June	26	22	12.8	0.5	28.4	8.62	7.91	25150	15.5
2001	June	26	22	12.8	1.0	27.9	7.14	7.76	28824	17.8
2001	June	26	22	12.8	1.5	27.4	6.56	7.72	29884	18.5
2001	June	26	22	12.8	2.0	27.6	6.21	7.71	30657	19.0
2001	June	26	22	12.8	2.5	27.7	6.25	7.74	31559	19.6

----- Month=June STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	23	17.5	0.2	29.4	6.01	7.34	10838	6.2
2001	June	26	23	17.5	0.5	28.4	4.56	7.16	13902	7.9
2001	June	26	23	17.5	1.0	28.2	4.55	7.20	16204	9.5
2001	June	26	23	17.5	1.5	28.2	4.37	7.19	16622	9.9

----- Month=June STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	24	21.9	0.2	29.0	4.83	7.22	1934	1.0
2001	June	26	24	21.9	0.5	28.7	4.45	7.18	2071	1.1
2001	June	26	24	21.9	1.0	28.1	3.84	7.13	2488	1.3
2001	June	26	24	21.9	1.5	27.8	3.59	7.09	2733	1.4
2001	June	26	24	21.9	2.0	27.7	3.43	7.09	2815	1.5

----- Month=June STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	25	24.7	0.2	28.5	4.62	7.23	941	0.5
2001	June	26	25	24.7	0.5	28.4	4.47	7.22	936	0.5
2001	June	26	25	24.7	1.0	28.3	4.40	7.22	930	0.5
2001	June	26	25	24.7	1.5	28.2	4.31	7.21	932	0.5
2001	June	26	25	24.7	2.0	28.2	4.32	7.21	931	0.5

----- Month=June STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	92	12.7	0.2	28.2	5.93	7.48	17181	9.8
2001	June	26	92	12.7	0.5	28.0	7.11	7.80	27990	17.2
2001	June	26	92	12.7	1.0	28.0	6.64	7.78	30625	19.1
2001	June	26	92	12.7	1.5	28.0	6.36	7.75	31279	19.4
2001	June	26	92	12.7	2.0	28.1	6.23	7.76	32164	20.1
2001	June	26	92	12.7	2.5	28.1	6.25	7.77	33084	20.7
2001	June	26	92	12.7	3.0	28.1	6.23	7.76	33197	20.8
2001	June	26	92	12.7	3.5	28.1	6.21	7.76	33208	20.8

----- Month=July STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	9	-2.4	0.2	27.3	6.37	7.43	13847	8.0
2001	July	26	9	-2.4	0.5	27.3	6.31	7.41	13800	8.0
2001	July	26	9	-2.4	1.0	27.3	6.22	7.41	13808	8.0
2001	July	26	9	-2.4	1.5	27.2	6.32	7.44	14057	8.1
2001	July	26	9	-2.4	2.0	26.8	5.38	7.76	29207	21.7
2001	July	26	9	-2.4	2.5	26.9	6.16	7.86	36705	23.2
2001	July	26	9	-2.4	3.0	26.6	4.95	7.75	37952	24.1
2001	July	26	9	-2.4	3.5	26.7	3.27	7.63	40065	25.6
2001	July	26	9	-2.4	4.0	26.7	2.86	7.61	40282	25.7

----- Month=July STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	10	6.6	0.2	27.1	4.51	6.99	1524	0.8
2001	July	26	10	6.6	0.5	27.0	4.70	6.98	1822	1.0
2001	July	26	10	6.6	1.0	26.9	4.04	6.92	7217	3.9
2001	July	26	10	6.6	1.5	26.9	3.15	7.01	14045	8.6
2001	July	26	10	6.6	2.0	27.0	1.58	7.26	32540	20.2
2001	July	26	10	6.6	2.5	26.9	1.28	7.32	34193	21.5

----- Month=July STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	11	10.5	0.2	26.7	4.26	7.00	434	0.2
2001	July	26	11	10.5	0.5	26.7	4.30	7.01	436	0.2
2001	July	26	11	10.5	1.0	26.7	4.20	7.01	437	0.2
2001	July	26	11	10.5	1.5	26.7	4.05	7.01	437	0.2
2001	July	26	11	10.5	2.0	26.7	4.02	7.01	438	0.2
2001	July	26	11	10.5	2.5	26.7	3.98	7.01	439	0.2
2001	July	26	11	10.5	3.0	26.7	3.92	7.01	439	0.2

----- Month=July STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	12	15.5	0.2	26.6	4.08	6.90	310	0.2
2001	July	26	12	15.5	0.5	26.5	3.85	6.90	312	0.2
2001	July	26	12	15.5	1.0	26.5	3.53	6.89	307	0.2
2001	July	26	12	15.5	1.5	26.4	3.40	6.89	306	0.2
2001	July	26	12	15.5	2.0	26.4	3.36	6.89	306	0.2
2001	July	26	12	15.5	2.5	26.4	3.33	6.89	304	0.2
2001	July	26	12	15.5	3.0	26.4	3.29	6.88	303	0.2
2001	July	26	12	15.5	3.5	26.4	3.28	6.88	302	0.2

----- Month=July STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	13	20.1	0.2	26.8	3.67	6.88	289	0.1
2001	July	26	13	20.1	0.5	26.8	3.51	6.88	297	0.1
2001	July	26	13	20.1	1.0	26.8	3.39	6.88	299	0.1
2001	July	26	13	20.1	1.5	26.8	3.30	6.88	291	0.1
2001	July	26	13	20.1	2.0	26.8	3.25	6.88	282	0.1
2001	July	26	13	20.1	2.5	26.8	3.26	6.88	286	0.1
2001	July	26	13	20.1	3.0	26.8	3.23	6.88	287	0.1

----- Month=July STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	14	23.6	0.2	26.9	3.79	6.85	293	0.1
2001	July	26	14	23.6	0.5	27.0	3.30	6.86	300	0.2
2001	July	26	14	23.6	1.0	26.9	3.11	6.85	284	0.1
2001	July	26	14	23.6	1.5	26.7	3.01	6.86	283	0.1
2001	July	26	14	23.6	2.0	26.8	2.95	6.86	287	0.2
2001	July	26	14	23.6	2.5	26.7	2.94	6.86	287	0.2
2001	July	26	14	23.6	3.0	26.9	2.96	6.86	312	0.1

----- Month=July STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	15	25.9	0.2	26.6	3.30	6.85	273	0.1
2001	July	26	15	25.9	0.5	26.6	3.25	6.85	274	0.1
2001	July	26	15	25.9	1.0	26.6	3.13	6.85	274	0.1
2001	July	26	15	25.9	1.5	26.6	3.18	6.85	274	0.1

----- Month=July STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	17	29.5	0.2	26.5	3.75	6.88	279	0.1
2001	July	26	17	29.5	0.5	26.5	3.36	6.87	285	0.1
2001	July	26	17	29.5	1.0	26.5	3.22	6.87	279	0.1
2001	July	26	17	29.5	1.5	26.5	3.18	6.85	280	0.1
2001	July	26	17	29.5	2.0	26.5	3.18	6.84	279	0.1
2001	July	26	17	29.5	2.5	26.5	3.18	6.84	277	0.1

----- Month=July STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	18	30.4	0.2	26.6	3.87	6.83	252	0.1
2001	July	26	18	30.4	0.5	26.6	3.26	6.77	239	0.1
2001	July	26	18	30.4	1.0	26.6	3.14	6.84	266	0.1
2001	July	26	18	30.4	1.5	26.5	3.09	6.83	269	0.1
2001	July	26	18	30.4	2.0	26.5	3.02	6.80	271	0.1
2001	July	26	18	30.4	2.5	26.5	3.00	6.83	269	0.1
2001	July	26	18	30.4	3.0	26.5	3.01	6.82	269	0.1

----- Month=July STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	19	32.3	0.2	26.7	3.82	6.89	287	0.1
2001	July	26	19	32.3	0.5	26.6	3.47	6.88	288	0.1
2001	July	26	19	32.3	1.0	26.6	3.24	6.88	288	0.1
2001	July	26	19	32.3	1.5	26.6	3.14	6.88	287	0.1
2001	July	26	19	32.3	2.0	26.6	3.10	6.87	283	0.1

----- Month=July STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	21	8.4	0.2	26.7	4.13	6.94	406	0.2
2001	July	26	21	8.4	0.5	26.7	4.14	6.94	410	0.2
2001	July	26	21	8.4	1.0	26.4	3.97	6.94	425	0.2
2001	July	26	21	8.4	1.5	26.3	3.70	6.85	1740	0.8
2001	July	26	21	8.4	2.0	27.0	1.48	6.96	21013	12.5

----- Month=July STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	22	12.8	0.2	26.4	4.24	6.91	325	0.2
2001	July	26	22	12.8	0.5	26.4	3.72	6.90	326	0.2
2001	July	26	22	12.8	1.0	26.4	3.51	6.90	322	0.2
2001	July	26	22	12.8	1.5	26.4	3.40	6.90	324	0.2
2001	July	26	22	12.8	2.0	26.3	3.42	6.90	322	0.2
2001	July	26	22	12.8	2.5	26.4	3.37	6.90	322	0.2
2001	July	26	22	12.8	3.0	26.4	3.40	6.90	326	0.2

----- Month=July STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	23	17.5	0.2	27.0	3.79	6.90	294	0.1
2001	July	26	23	17.5	0.5	26.8	3.63	6.89	293	0.1
2001	July	26	23	17.5	1.0	26.8	3.49	6.89	293	0.1
2001	July	26	23	17.5	1.5	26.8	3.41	6.88	294	0.1

----- Month=July STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	24	21.9	0.2	26.7	3.50	6.87	282	0.1
2001	July	26	24	21.9	0.5	26.7	3.41	6.87	282	0.1
2001	July	26	24	21.9	1.0	26.6	3.32	6.87	282	0.1
2001	July	26	24	21.9	1.5	26.6	3.17	6.87	282	0.1

----- Month=July STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	25	24.7	0.2	26.7	3.65	6.86	275	0.1
2001	July	26	25	24.7	0.5	26.7	3.27	6.85	276	0.1
2001	July	26	25	24.7	1.0	26.7	3.13	6.85	276	0.1
2001	July	26	25	24.7	1.5	26.7	3.10	6.85	275	0.1

----- Month=July STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	92	12.7	0.2	27.3	4.29	7.03	381	0.2
2001	July	26	92	12.7	0.5	27.2	4.37	7.04	384	0.2
2001	July	26	92	12.7	1.0	27.0	4.11	7.01	385	0.2
2001	July	26	92	12.7	1.5	26.9	3.95	7.01	386	0.2
2001	July	26	92	12.7	2.0	26.9	3.92	7.01	385	0.2
2001	July	26	92	12.7	2.5	26.9	3.85	7.01	385	0.2
2001	July	26	92	12.7	3.0	26.9	3.86	7.01	386	0.2
2001	July	26	92	12.7	3.5	26.9	3.82	7.00	387	0.2

----- Month=August STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	9	-2.4	0.2	29.3	4.39	7.58	27852	17.1
2001	August	27	9	-2.4	0.5	29.3	4.35	7.59	27775	17.1
2001	August	27	9	-2.4	1.0	29.3	4.28	7.58	27861	17.1
2001	August	27	9	-2.4	1.5	29.3	4.18	7.58	28154	17.3
2001	August	27	9	-2.4	2.0	29.4	3.79	7.56	28838	17.8
2001	August	27	9	-2.4	2.5	30.5	1.01	7.47	35627	21.7
2001	August	27	9	-2.4	3.0	30.8	0.57	7.53	37230	23.6
2001	August	27	9	-2.4	3.5	30.8	0.42	7.54	37259	23.6
2001	August	27	9	-2.4	4.0	30.8	0.36	7.54	37280	23.6

----- Month=August STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	10	6.6	0.2	29.7	4.75	7.44	22577	13.6
2001	August	27	10	6.6	0.5	29.6	4.06	7.40	23134	13.9
2001	August	27	10	6.6	1.0	30.1	1.38	7.33	32070	20.0
2001	August	27	10	6.6	1.5	30.4	0.55	7.40	33269	20.9
2001	August	27	10	6.6	2.0	30.5	0.39	7.41	33496	21.0
2001	August	27	10	6.6	2.5	30.5	0.30	7.41	33510	21.0

----- Month=August STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	11	10.5	0.2	29.7	4.89	7.25	9787	5.1
2001	August	27	11	10.5	0.5	29.5	4.53	7.24	11442	6.5
2001	August	27	11	10.5	1.0	30.7	1.85	7.18	24109	14.5
2001	August	27	11	10.5	1.5	30.8	1.42	7.18	24399	14.8
2001	August	27	11	10.5	2.0	30.7	1.10	7.17	24683	15.0
2001	August	27	11	10.5	2.5	30.7	0.68	7.17	26015	15.9
2001	August	27	11	10.5	3.0	30.7	0.42	7.17	26534	16.2
2001	August	27	11	10.5	3.5	30.7	0.33	7.17	26600	16.2

----- Month=August STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	12	15.5	0.2	31.3	4.99	7.18	1621	0.9
2001	August	27	12	15.5	0.5	30.8	4.69	7.17	1586	0.8
2001	August	27	12	15.5	1.0	30.3	4.63	7.16	1566	0.8
2001	August	27	12	15.5	1.5	30.4	3.99	7.08	4364	2.5
2001	August	27	12	15.5	2.0	30.6	3.67	7.08	5923	3.3
2001	August	27	12	15.5	2.5	30.8	3.31	7.07	7365	4.1
2001	August	27	12	15.5	3.0	31.0	2.88	7.05	9843	5.6
2001	August	27	12	15.5	3.5	31.1	2.68	7.05	10258	5.8

----- Month=August STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	13	20.1	0.2	30.7	4.62	7.14	424	0.2
2001	August	27	13	20.1	0.5	30.6	4.41	7.14	424	0.2
2001	August	27	13	20.1	1.0	30.5	4.26	7.14	425	0.2
2001	August	27	13	20.1	1.5	30.3	4.12	7.14	423	0.2
2001	August	27	13	20.1	2.0	30.2	4.07	7.13	423	0.2
2001	August	27	13	20.1	2.5	30.1	4.08	7.13	425	0.2
2001	August	27	13	20.1	3.0	30.1	4.08	7.13	424	0.2
2001	August	27	13	20.1	3.5	30.1	3.97	7.13	421	0.2
2001	August	27	13	20.1	4.0	30.1	3.95	7.13	425	0.2
2001	August	27	13	20.1	4.5	30.1	3.96	7.13	426	0.2

----- Month=August STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	14	23.6	0.2	30.6	4.91	7.17	409	0.2
2001	August	27	14	23.6	0.5	29.5	4.52	7.14	405	0.2
2001	August	27	14	23.6	1.0	29.4	4.41	7.14	405	0.2
2001	August	27	14	23.6	1.5	29.3	4.34	7.14	407	0.2
2001	August	27	14	23.6	2.0	29.3	4.25	7.14	408	0.2
2001	August	27	14	23.6	2.5	29.2	4.30	7.13	408	0.2
2001	August	27	14	23.6	3.0	29.2	4.24	7.13	409	0.2
2001	August	27	14	23.6	3.5	29.2	4.25	7.13	409	0.2

----- Month=August STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	15	25.9	0.2	30.1	4.71	7.14	407	0.2
2001	August	27	15	25.9	0.5	29.8	4.55	7.15	407	0.2
2001	August	27	15	25.9	1.0	29.7	4.50	7.15	406	0.2
2001	August	27	15	25.9	1.5	29.7	4.36	7.15	406	0.2

----- Month=August STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	17	29.5	0.2	29.9	4.93	7.19	414	0.2
2001	August	27	17	29.5	0.5	29.8	4.78	7.19	415	0.2
2001	August	27	17	29.5	1.0	29.5	4.80	7.18	415	0.2
2001	August	27	17	29.5	1.5	29.5	4.70	7.18	415	0.2
2001	August	27	17	29.5	2.0	29.4	4.59	7.17	414	0.2
2001	August	27	17	29.5	2.5	29.2	4.56	7.17	415	0.2
2001	August	27	17	29.5	3.0	29.2	4.47	7.17	413	0.2
2001	August	27	17	29.5	3.5	29.3	4.43	7.16	412	0.2
2001	August	27	17	29.5	4.0	28.7	4.22	7.13	409	0.2

----- Month=August STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	18	30.4	0.2	28.9	4.65	7.18	414	0.2
2001	August	27	18	30.4	0.5	29.7	4.54	7.17	415	0.2
2001	August	27	18	30.4	1.0	29.3	4.49	7.17	417	0.2
2001	August	27	18	30.4	1.5	29.2	4.52	7.17	417	0.2
2001	August	27	18	30.4	2.0	29.2	4.47	7.17	417	0.2
2001	August	27	18	30.4	2.5	29.2	4.46	7.16	417	0.2
2001	August	27	18	30.4	3.0	29.2	4.44	7.16	417	0.2
2001	August	27	18	30.4	3.5	29.2	4.42	7.16	417	0.2

----- Month=August STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	19	32.3	0.2	29.7	5.10	7.17	420	0.2
2001	August	27	19	32.3	0.5	29.6	4.75	7.17	421	0.2
2001	August	27	19	32.3	1.0	29.6	4.76	7.17	421	0.2
2001	August	27	19	32.3	1.5	29.6	4.65	7.18	421	0.2
2001	August	27	19	32.3	2.0	29.6	4.57	7.18	421	0.2
2001	August	27	19	32.3	2.5	29.6	4.58	7.18	421	0.2
2001	August	22	19	32.3	3.0	29.6	4.53	7.18	421	0.2

----- Month=August STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	21	8.4	0.2	29.5	4.69	7.30	13511	7.9
2001	August	27	21	8.4	0.5	29.3	4.01	7.32	16991	10.3
2001	August	27	21	8.4	1.0	30.2	0.76	7.38	30436	18.9
2001	August	27	21	8.4	1.5	30.3	0.46	7.37	30846	19.1
2001	August	27	21	8.4	2.0	30.3	0.31	7.37	30877	19.2

----- Month=August STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	22	12.8	0.2	30.8	5.39	7.20	3391	1.8
2001	August	27	22	12.8	0.5	30.3	4.70	7.16	4564	2.6
2001	August	27	22	12.8	1.0	29.8	3.38	7.13	14347	8.2
2001	August	27	22	12.8	1.5	30.4	2.55	7.12	17444	10.0
2001	August	27	22	12.8	2.0	30.7	1.97	7.10	18673	11.1
2001	August	27	22	12.8	2.5	31.0	1.88	7.15	21053	12.6
2001	August	27	22	12.8	3.0	30.9	1.82	7.16	21486	12.9
2001	August	27	22	12.8	3.5	30.9	1.74	7.17	21859	13.1

----- Month=August STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	23	17.5	0.2	31.3	5.28	7.15	464	0.2
2001	August	27	23	17.5	0.5	31.0	4.74	7.15	466	0.2
2001	August	27	23	17.5	1.0	30.5	4.47	7.15	467	0.2
2001	August	27	23	17.5	1.5	30.4	4.22	7.14	468	0.2

----- Month=August STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	24	21.9	0.2	31.0	4.79	7.17	416	0.2
2001	August	27	24	21.9	0.5	30.5	4.62	7.16	413	0.2
2001	August	27	24	21.9	1.0	29.6	4.34	7.13	414	0.2
2001	August	27	24	21.9	1.5	29.5	4.24	7.13	415	0.2
2001	August	27	24	21.9	2.0	29.5	4.15	7.13	417	0.2
2001	August	27	24	21.9	2.5	29.5	4.15	7.13	418	0.2
2001	August	27	24	21.9	3.0	29.4	4.14	7.13	418	0.2

----- Month=August STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	25	24.7	0.2	30.7	4.57	7.19	404	0.2
2001	August	27	25	24.7	0.5	30.5	4.55	7.18	403	0.2
2001	August	27	25	24.7	1.0	30.0	4.59	7.12	404	0.2
2001	August	27	25	24.7	1.5	29.7	4.41	7.16	403	0.2
2001	August	27	25	24.7	2.0	29.6	4.35	7.16	403	0.2

----- Month=August STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	92	12.7	0.2	30.4	5.01	7.28	4471	2.5
2001	August	27	92	12.7	0.5	29.9	4.77	7.24	4625	2.5
2001	August	27	92	12.7	1.0	30.6	2.97	7.15	16513	9.7
2001	August	27	92	12.7	1.5	31.0	2.16	7.17	20895	12.5
2001	August	27	92	12.7	2.0	30.9	2.00	7.17	21344	12.8
2001	August	27	92	12.7	2.5	31.0	1.85	7.18	21659	13.0
2001	August	27	92	12.7	3.0	31.0	1.79	7.18	21699	13.0
2001	August	27	92	12.7	3.5	31.0	1.75	7.18	21737	13.0

----- Month=September STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	9	-2.4	0.2	28.4	4.41	7.00	5076	2.8
2001	September	26	9	-2.4	0.5	28.3	4.38	7.01	5071	2.8
2001	September	26	9	-2.4	1.0	28.3	4.29	7.01	5162	2.9
2001	September	26	9	-2.4	1.5	28.3	4.25	7.02	5347	3.0
2001	September	26	9	-2.4	2.0	28.2	2.48	7.04	12845	7.6
2001	September	26	9	-2.4	2.5	27.7	0.56	7.13	22841	13.8
2001	September	26	9	-2.4	3.0	27.3	0.38	7.12	23573	14.2
2001	September	26	9	-2.4	3.5	27.3	0.36	7.12	23579	14.2
2001	September	26	9	-2.4	4.0	27.3	0.31	7.12	23605	14.2

----- Month=September STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	10	6.6	0.2	28.2	3.43	6.95	413	0.2
2001	September	26	10	6.6	0.5	28.1	3.28	6.96	411	0.2
2001	September	26	10	6.6	1.0	28.1	3.18	6.95	501	0.3
2001	September	26	10	6.6	1.5	28.3	2.79	6.86	1669	0.9
2001	September	26	10	6.6	2.0	28.0	0.78	6.99	19478	11.5
2001	September	26	10	6.6	2.5	27.9	0.65	7.00	19601	11.6
2001	September	26	10	6.6	3.0	27.9	0.53	6.99	19881	11.8

----- Month=September STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	11	10.5	0.2	28.1	2.83	6.92	248	0.1
2001	September	26	11	10.5	0.5	28.0	2.64	6.93	247	0.1
2001	September	26	11	10.5	1.0	27.7	2.30	6.91	242	0.1
2001	September	26	11	10.5	1.5	27.7	2.26	6.91	241	0.1
2001	September	26	11	10.5	2.0	27.7	2.25	6.91	241	0.1
2001	September	26	11	10.5	2.5	27.7	2.21	6.91	240	0.1
2001	September	26	11	10.5	3.0	27.7	2.19	6.90	240	0.1

----- Month=September STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	12	15.5	0.2	27.9	2.50	6.90	207	0.1
2001	September	26	12	15.5	0.5	27.4	2.09	6.89	205	0.1
2001	September	26	12	15.5	1.0	27.2	2.02	6.88	204	0.1
2001	September	26	12	15.5	1.5	27.2	1.99	6.88	204	0.1
2001	September	26	12	15.5	2.0	27.2	1.96	6.88	204	0.1
2001	September	26	12	15.5	2.5	27.2	1.93	6.88	204	0.1
2001	September	26	12	15.5	3.0	27.2	1.94	6.88	204	0.1
2001	September	26	12	15.5	3.5	27.2	1.93	6.89	204	0.1

----- Month=September STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	13	20.1	0.2	27.3	2.04	6.89	209	0.1
2001	September	26	13	20.1	0.5	27.3	1.95	6.89	208	0.1
2001	September	26	13	20.1	1.0	27.3	1.89	6.90	208	0.1
2001	September	26	13	20.1	1.5	27.3	1.90	6.89	209	0.1
2001	September	26	13	20.1	2.0	27.3	1.87	6.89	209	0.1
2001	September	26	13	20.1	2.5	27.3	1.85	6.89	208	0.1
2001	September	26	13	20.1	3.0	27.3	1.81	6.90	208	0.1
2001	September	26	13	20.1	3.5	27.3	1.83	6.89	208	0.1
2001	September	26	13	20.1	4.0	27.3	1.80	6.89	209	0.1

----- Month=September STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	14	23.6	0.2	27.2	1.87	6.89	208	0.1
2001	September	26	14	23.6	0.5	27.2	1.82	6.90	208	0.1
2001	September	26	14	23.6	1.0	27.2	1.78	6.90	208	0.1
2001	September	26	14	23.6	1.5	27.2	1.74	6.90	209	0.1
2001	September	26	14	23.6	2.0	27.2	1.69	6.89	209	0.1
2001	September	26	14	23.6	2.5	27.2	1.69	6.89	209	0.1
2001	September	26	14	23.6	3.0	27.2	1.66	6.89	209	0.1
2001	September	26	14	23.6	3.5	27.2	1.67	6.89	209	0.1

----- Month=September STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	15	25.9	0.2	27.1	2.07	6.88	206	0.1
2001	September	26	15	25.9	0.5	27.1	1.91	6.89	206	0.1
2001	September	26	15	25.9	1.0	27.1	1.86	6.89	206	0.1
2001	September	26	15	25.9	1.5	27.1	1.79	6.89	206	0.1

----- Month=September STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	17	29.5	0.2	27.1	2.12	6.91	210	0.1
2001	September	26	17	29.5	0.5	27.1	1.92	6.90	210	0.1
2001	September	26	17	29.5	1.0	27.1	1.82	6.91	210	0.1
2001	September	26	17	29.5	1.5	27.1	1.79	6.91	210	0.1
2001	September	26	17	29.5	2.0	27.1	1.79	6.91	210	0.1
2001	September	26	17	29.5	2.5	27.1	1.78	6.90	210	0.1
2001	September	26	17	29.5	3.0	27.1	1.77	6.90	207	0.1
2001	September	26	17	29.5	3.5	27.1	1.76	6.90	210	0.1
2001	September	26	17	29.5	4.0	27.1	1.69	6.88	206	0.1
2001	September	26	17	29.5	4.5	27.1	1.72	6.90	202	0.1

----- Month=September STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	18	30.4	0.2	27.0	1.98	6.90	209	0.1
2001	September	26	18	30.4	0.5	27.0	1.85	6.90	210	0.1
2001	September	26	18	30.4	1.0	27.0	1.75	6.89	206	0.1
2001	September	26	18	30.4	1.5	27.1	1.70	6.87	193	0.1
2001	September	26	18	30.4	2.0	27.1	1.62	6.84	194	0.1
2001	September	26	18	30.4	2.5	27.0	1.67	6.89	209	0.1
2001	September	26	18	30.4	3.0	27.0	1.68	6.88	211	0.1
2001	September	26	18	30.4	3.5	27.0	1.68	6.90	209	0.1
2001	September	26	18	30.4	4.0	27.0	1.69	6.90	211	0.1
2001	September	26	18	30.4	4.5	27.0	1.67	6.90	206	0.1
2001	September	26	18	30.4	5.0	27.0	1.66	6.89	207	0.1

----- Month=September STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	19	32.3	0.2	27.0	1.92	6.93	215	0.1
2001	September	26	19	32.3	0.5	27.0	1.87	6.93	216	0.1
2001	September	26	19	32.3	1.0	27.0	1.85	6.93	215	0.1
2001	September	26	19	32.3	1.5	27.0	1.87	6.93	215	0.1
2001	September	26	19	32.3	2.0	27.0	1.84	6.92	215	0.1
2001	September	26	19	32.3	2.5	27.0	1.80	6.93	215	0.1
2001	September	26	19	32.3	3.0	27.0	1.82	6.93	215	0.1
2001	September	26	19	32.3	3.5	27.0	1.78	6.93	215	0.1

----- Month=September STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	21	8.4	0.2	27.7	2.86	6.90	224	0.1
2001	September	26	21	8.4	0.5	27.5	2.66	6.91	223	0.1
2001	September	26	21	8.4	1.0	27.6	2.63	6.92	228	0.1
2001	September	26	21	8.4	1.5	27.5	2.68	6.93	231	0.1
2001	September	26	21	8.4	2.0	27.4	2.65	6.95	238	0.1

----- Month=September STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	22	12.8	0.2	27.9	2.39	6.90	204	0.1
2001	September	26	22	12.8	0.5	27.5	2.23	6.89	204	0.1
2001	September	26	22	12.8	1.0	27.3	2.00	6.88	204	0.1
2001	September	26	22	12.8	1.5	27.3	1.94	6.88	204	0.1
2001	September	26	22	12.8	2.0	27.2	1.89	6.88	205	0.1
2001	September	26	22	12.8	2.5	27.2	1.87	6.87	206	0.1
2001	September	26	22	12.8	3.0	27.2	1.87	6.87	206	0.1
2001	September	26	22	12.8	3.5	27.2	1.86	6.87	207	0.1

----- Month=September STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	23	17.5	0.2	27.3	2.23	6.89	205	0.1
2001	September	26	23	17.5	0.5	27.3	2.09	6.89	205	0.1
2001	September	26	23	17.5	1.0	27.3	2.00	6.89	205	0.1
2001	September	26	23	17.5	1.5	27.2	1.98	6.89	205	0.1
2001	September	26	23	17.5	2.0	27.2	1.95	6.89	205	0.1

----- Month=September STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	24	21.9	0.2	27.2	2.00	6.87	207	0.1
2001	September	26	24	21.9	0.5	27.2	1.89	6.87	207	0.1
2001	September	26	24	21.9	1.0	27.2	1.84	6.88	207	0.1
2001	September	26	24	21.9	1.5	27.2	1.81	6.88	207	0.1
2001	September	26	24	21.9	2.0	27.2	1.76	6.88	207	0.1

----- Month=September STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	25	24.7	0.2	27.2	2.01	6.90	205	0.1
2001	September	26	25	24.7	0.5	27.2	1.91	6.90	205	0.1
2001	September	26	25	24.7	1.0	27.2	1.87	6.90	205	0.1
2001	September	26	25	24.7	1.5	27.2	1.85	6.90	206	0.1
2001	September	26	25	24.7	2.0	27.2	1.83	6.90	206	0.1

----- Month=September STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	92	12.7	0.2	28.3	3.05	6.96	325	0.2
2001	September	26	92	12.7	0.5	28.5	3.38	7.03	351	0.2
2001	September	26	92	12.7	1.0	27.6	2.47	6.93	256	0.1
2001	September	26	92	12.7	1.5	27.5	2.36	6.92	249	0.1
2001	September	26	92	12.7	2.0	27.5	2.30	6.92	246	0.1
2001	September	26	92	12.7	2.5	27.5	2.23	6.91	239	0.1
2001	September	26	92	12.7	3.0	27.4	2.09	6.90	227	0.1
2001	September	26	92	12.7	3.5	27.4	2.07	6.89	226	0.1

----- Month=October STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	9	-2.4	0.2	26.6	6.39	7.73	31282	19.4
2001	October	25	9	-2.4	0.5	26.5	6.28	7.74	31306	19.5
2001	October	25	9	-2.4	1.0	26.5	6.24	7.74	31286	19.5
2001	October	25	9	-2.4	1.5	26.5	6.18	7.75	31452	19.6
2001	October	25	9	-2.4	2.0	26.6	6.23	7.76	32213	20.3
2001	October	25	9	-2.4	2.5	26.8	6.12	7.77	33727	21.2
2001	October	25	9	-2.4	3.0	25.6	3.12	7.48	36018	22.7
2001	October	25	9	-2.4	3.5	25.4	2.45	7.46	37778	24.1
2001	October	25	9	-2.4	4.0	25.3	2.37	7.46	38518	24.5

----- Month=October STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	10	6.6	0.2	27.3	6.89	7.80	23162	14.0
2001	October	25	10	6.6	0.5	27.2	6.65	7.80	24107	14.1
2001	October	25	10	6.6	1.0	27.2	5.92	7.68	24778	15.0
2001	October	25	10	6.6	1.5	27.1	5.61	7.64	25836	15.8
2001	October	25	10	6.6	2.0	27.2	5.41	7.62	27015	16.4
2001	October	25	10	6.6	2.5	27.2	5.18	7.61	28792	17.7
2001	October	25	10	6.6	3.0	27.0	4.45	7.53	29294	18.1
2001	October	25	10	6.6	3.5	26.9	3.91	7.46	29663	18.3

----- Month=October STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	11	10.5	0.2	27.5	6.99	7.64	13352	7.7
2001	October	25	11	10.5	0.5	27.5	6.94	7.66	13538	7.7
2001	October	25	11	10.5	1.0	27.5	5.55	7.64	19206	11.3
2001	October	25	11	10.5	1.5	27.5	5.86	7.64	22471	13.5
2001	October	25	11	10.5	2.0	27.5	5.61	7.64	23356	14.1
2001	October	25	11	10.5	2.5	27.5	5.39	7.64	23736	14.3
2001	October	25	11	10.5	3.0	27.4	5.36	7.64	23831	14.4
2001	October	25	11	10.5	3.5	27.4	5.20	7.64	24009	14.5

----- Month=October STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	12	15.5	0.2	28.3	6.52	7.38	4441	2.5
2001	October	25	12	15.5	0.5	28.2	6.40	7.37	4691	2.6
2001	October	25	12	15.5	1.0	27.9	6.20	7.35	5070	2.8
2001	October	25	12	15.5	1.5	27.6	5.81	7.29	6599	3.7
2001	October	25	12	15.5	2.0	27.4	5.53	7.25	7471	4.2
2001	October	25	12	15.5	2.5	27.4	5.39	7.26	8671	4.8
2001	October	25	12	15.5	3.0	27.4	5.50	7.28	8741	4.9
2001	October	25	12	15.5	3.5	27.5	5.45	7.29	9165	5.2

----- Month=October STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	13	20.1	0.2	27.9	5.27	7.21	628	0.3
2001	October	25	13	20.1	0.5	27.8	5.00	7.21	624	0.3
2001	October	25	13	20.1	1.0	27.5	4.84	7.21	603	0.3
2001	October	25	13	20.1	1.5	27.3	4.65	7.19	556	0.3
2001	October	25	13	20.1	2.0	27.1	4.58	7.19	554	0.3
2001	October	25	13	20.1	2.5	27.1	4.53	7.18	540	0.3
2001	October	25	13	20.1	3.0	27.1	4.47	7.18	537	0.3
2001	October	25	13	20.1	3.5	27.1	4.47	7.18	594	0.3

----- Month=October STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	14	23.6	0.2	27.1	5.07	7.15	474	0.2
2001	October	25	14	23.6	0.5	27.2	4.68	7.16	474	0.2
2001	October	25	14	23.6	1.0	26.9	4.50	7.15	475	0.2
2001	October	25	14	23.6	1.5	26.9	4.33	7.13	475	0.2
2001	October	25	14	23.6	2.0	26.6	4.30	7.13	476	0.2
2001	October	25	14	23.6	2.5	26.6	4.29	7.13	474	0.2
2001	October	25	14	23.6	3.0	26.5	4.26	7.13	475	0.2
2001	October	25	14	23.6	3.5	26.5	4.25	7.13	475	0.2

----- Month=October STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	15	25.9	0.2	26.9	4.91	7.19	457	0.2
2001	October	25	15	25.9	0.5	27.3	4.88	7.21	458	0.2
2001	October	25	15	25.9	1.0	26.6	4.78	7.19	457	0.2
2001	October	25	15	25.9	1.5	26.5	4.71	7.19	457	0.2

----- Month=October STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	17	29.5	0.2	27.5	5.59	7.31	451	0.2
2001	October	25	17	29.5	0.5	26.7	5.39	7.27	450	0.2
2001	October	25	17	29.5	1.0	26.6	5.33	7.26	450	0.2
2001	October	25	17	29.5	1.5	26.6	5.24	7.26	450	0.2
2001	October	25	17	29.5	2.0	26.6	5.25	7.26	450	0.2
2001	October	25	17	29.5	2.5	26.6	5.08	7.23	451	0.2
2001	October	25	17	29.5	3.0	26.7	5.03	7.22	451	0.2
2001	October	25	17	29.5	3.5	26.5	4.74	7.20	454	0.2
2001	October	25	17	29.5	4.0	26.5	4.66	7.19	454	0.2

----- Month=October STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	18	30.4	0.2	27.2	5.45	7.29	447	0.2
2001	October	25	18	30.4	0.5	26.9	5.37	7.27	447	0.2
2001	October	25	18	30.4	1.0	26.9	5.33	7.27	447	0.2
2001	October	25	18	30.4	1.5	26.8	5.34	7.26	446	0.2
2001	October	25	18	30.4	2.0	26.6	5.28	7.25	445	0.2
2001	October	25	18	30.4	2.5	26.5	5.25	7.25	446	0.2
2001	October	25	18	30.4	3.0	26.5	5.26	7.24	447	0.2
2001	October	25	18	30.4	3.5	26.5	5.22	7.24	446	0.2
2001	October	25	18	30.4	4.0	26.5	5.16	7.24	447	0.2

----- Month=October STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	19	32.3	0.2	26.8	5.54	7.28	442	0.2
2001	October	25	19	32.3	0.5	26.8	5.45	7.27	442	0.2
2001	October	25	19	32.3	1.0	26.8	5.31	7.27	442	0.2
2001	October	25	19	32.3	1.5	26.8	5.36	7.26	442	0.2
2001	October	25	19	32.3	2.0	26.8	5.34	7.26	442	0.2

----- Month=October STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	21	8.4	0.2	27.4	7.01	7.71	16854	10.4
2001	October	25	21	8.4	0.5	27.4	6.66	7.71	20192	11.7
2001	October	25	21	8.4	1.0	27.4	6.24	7.72	24249	14.5
2001	October	25	21	8.4	1.5	27.4	5.51	7.63	25432	15.5
2001	October	25	21	8.4	2.0	27.3	5.23	7.58	25560	15.6

----- Month=October STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	22	12.8	0.2	28.1	7.13	7.55	8410	4.7
2001	October	25	22	12.8	0.5	27.7	6.84	7.52	9367	5.3
2001	October	25	22	12.8	1.0	27.5	6.54	7.52	10863	6.1
2001	October	25	22	12.8	1.5	27.5	6.32	7.54	12117	6.9
2001	October	25	22	12.8	2.0	27.5	6.02	7.49	12798	7.4
2001	October	25	22	12.8	2.5	27.5	5.89	7.47	13985	8.1
2001	October	25	22	12.8	3.0	27.5	5.76	7.50	16412	9.5
2001	October	25	22	12.8	3.5	27.6	5.69	7.54	19240	11.4
2001	October	25	22	12.8	4.0	27.6	5.71	7.54	19286	11.4

----- Month=October STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	23	17.5	0.2	27.8	5.86	7.22	2471	1.3
2001	October	25	23	17.5	0.5	27.8	5.42	7.22	2355	1.3
2001	October	25	23	17.5	1.0	27.7	5.32	7.21	2322	1.2
2001	October	25	23	17.5	1.5	27.4	5.15	7.19	2773	1.5
2001	October	25	23	17.5	2.0	27.3	5.06	7.17	4162	2.3

----- Month=October STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	24	21.9	0.2	27.0	4.50	7.12	478	0.2
2001	October	25	24	21.9	0.5	27.0	4.42	7.13	478	0.2
2001	October	25	24	21.9	1.0	27.0	4.37	7.13	477	0.2
2001	October	25	24	21.9	1.5	27.0	4.38	7.13	479	0.2
2001	October	25	24	21.9	2.0	26.9	4.16	7.11	448	0.2
2001	October	25	24	21.9	2.5	26.8	4.09	7.11	478	0.2

----- Month=October STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	25	24.7	0.2	26.6	4.92	7.19	468	0.2
2001	October	25	25	24.7	0.5	26.7	4.86	7.20	470	0.2
2001	October	25	25	24.7	1.0	26.9	4.87	7.20	468	0.2
2001	October	25	25	24.7	1.5	26.6	4.85	7.19	469	0.2
2001	October	25	25	24.7	2.0	26.5	4.80	7.19	468	0.2
2001	October	25	25	24.7	2.5	26.4	4.79	7.19	467	0.2

----- Month=October STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	92	12.7	0.2	27.6	6.43	7.39	8625	4.8
2001	October	25	92	12.7	0.5	27.5	6.11	7.38	9807	5.6
2001	October	25	92	12.7	1.0	27.5	6.00	7.40	11258	6.4
2001	October	25	92	12.7	1.5	27.5	5.82	7.43	13589	7.7
2001	October	25	92	12.7	2.0	27.6	5.69	7.50	16877	10.0
2001	October	25	92	12.7	2.5	27.6	5.78	7.55	18888	11.2
2001	October	25	92	12.7	3.0	27.6	5.80	7.56	19201	11.4
2001	October	25	92	12.7	3.5	27.6	5.68	7.56	19796	11.8

----- Month=November STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	9	-2.4	0.2	23.0	5.81	7.77	43626	28.2
2001	November	26	9	-2.4	0.5	22.9	5.72	7.78	43645	28.2
2001	November	26	9	-2.4	1.0	22.9	5.66	7.78	43630	28.2
2001	November	26	9	-2.4	1.5	22.8	5.62	7.78	43652	28.1
2001	November	26	9	-2.4	2.0	22.8	5.57	7.78	43650	28.2
2001	November	26	9	-2.4	2.5	22.7	5.55	7.78	43718	28.2
2001	November	26	9	-2.4	3.0	22.6	5.65	7.80	44152	28.7
2001	November	26	9	-2.4	3.5	22.7	4.56	7.72	45707	29.7
2001	November	26	9	-2.4	4.0	22.7	4.09	7.69	46184	30.0

----- Month=November STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	10	6.6	0.2	23.6	5.14	7.57	39303	25.1
2001	November	26	10	6.6	0.5	23.5	5.05	7.57	39365	25.0
2001	November	26	10	6.6	1.0	23.5	5.05	7.59	39567	25.3
2001	November	26	10	6.6	1.5	23.3	4.82	7.57	39703	25.4
2001	November	26	10	6.6	2.0	23.2	3.86	7.51	42611	27.4
2001	November	26	10	6.6	2.5	23.2	3.70	7.51	42690	27.5

----- Month=November STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	11	10.5	0.2	24.2	5.21	7.49	32352	20.2
2001	November	26	11	10.5	0.5	24.0	4.95	7.46	33217	20.8
2001	November	26	11	10.5	1.0	23.6	4.22	7.41	35983	22.8
2001	November	26	11	10.5	1.5	23.5	4.09	7.41	36342	23.0
2001	November	26	11	10.5	2.0	23.4	3.84	7.39	36559	23.1
2001	November	26	11	10.5	2.5	23.4	3.76	7.39	36619	23.2
2001	November	26	11	10.5	3.0	23.3	3.75	7.39	36755	23.3

----- Month=November STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	12	15.5	0.2	24.3	4.98	7.34	22135	13.3
2001	November	26	12	15.5	0.5	24.3	4.85	7.34	22158	13.3
2001	November	26	12	15.5	1.0	24.3	4.82	7.34	22226	13.3
2001	November	26	12	15.5	1.5	24.3	4.80	7.34	22244	13.4
2001	November	26	12	15.5	2.0	24.0	4.28	7.27	23340	13.9
2001	November	26	12	15.5	2.5	23.9	4.03	7.24	23689	14.3

----- Month=November STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	13	20.1	0.2	25.4	5.32	7.33	11651	6.7
2001	November	26	13	20.1	0.5	25.4	5.24	7.33	11579	6.6
2001	November	26	13	20.1	1.0	24.2	4.39	7.22	15332	8.9
2001	November	26	13	20.1	1.5	24.0	4.07	7.17	15737	9.2
2001	November	26	13	20.1	2.0	24.0	3.97	7.16	15902	9.3
2001	November	26	13	20.1	2.5	23.9	3.96	7.15	16004	9.4
2001	November	26	13	20.1	3.0	23.9	3.91	7.17	16134	9.4
2001	November	26	13	20.1	3.5	23.9	3.90	7.15	16209	9.4
2001	November	26	13	20.1	4.0	23.9	3.86	7.16	16123	9.4
2001	November	26	13	20.1	4.5	23.9	3.83	7.15	16132	9.4

----- Month=November STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	14	23.6	0.2	23.8	5.80	7.40	2074	1.1
2001	November	26	14	23.6	0.5	23.7	5.63	7.38	2355	1.3
2001	November	26	14	23.6	1.0	23.7	5.52	7.37	2494	1.4
2001	November	26	14	23.6	1.5	23.6	5.43	7.36	2553	1.4
2001	November	26	14	23.6	2.0	23.6	5.37	7.36	2584	1.4
2001	November	26	14	23.6	2.5	23.6	5.37	7.35	2626	1.4
2001	November	26	14	23.6	3.0	23.6	5.31	7.35	2822	1.5
2001	November	26	14	23.6	3.5	23.7	5.32	7.35	2828	1.5

----- Month=November STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	15	25.9	0.2	23.7	6.23	7.58	622	0.3
2001	November	26	15	25.9	0.5	23.7	6.12	7.58	624	0.3
2001	November	26	15	25.9	1.0	23.6	6.08	7.57	625	0.3

----- Month=November STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	17	29.5	0.2	23.2	6.05	7.57	578	0.3
2001	November	26	17	29.5	0.5	23.4	6.06	7.58	578	0.3
2001	November	26	17	29.5	1.0	23.2	5.99	7.57	578	0.3
2001	November	26	17	29.5	1.5	23.2	5.93	7.57	577	0.3
2001	November	26	17	29.5	2.0	23.2	5.89	7.56	578	0.3
2001	November	26	17	29.5	2.5	23.2	5.91	7.56	578	0.3
2001	November	26	17	29.5	3.0	23.2	5.82	7.56	578	0.3
2001	November	26	17	29.5	3.5	23.1	5.80	7.55	578	0.3
2001	November	26	17	29.5	4.0	23.0	5.66	7.53	577	0.3
2001	November	26	17	29.5	4.5	22.9	5.55	7.54	578	0.3

----- Month=November STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	18	30.4	0.2	24.0	6.19	7.63	578	0.3
2001	November	26	18	30.4	0.5	23.9	6.10	7.62	578	0.3
2001	November	26	18	30.4	1.0	23.6	6.00	7.61	578	0.3
2001	November	26	18	30.4	1.5	23.6	5.95	7.61	578	0.3
2001	November	26	18	30.4	2.0	23.5	5.93	7.60	578	0.3
2001	November	26	18	30.4	2.5	23.2	5.72	7.56	577	0.3
2001	November	26	18	30.4	3.0	23.0	5.68	7.56	577	0.3
2001	November	26	18	30.4	3.5	23.0	5.64	7.55	577	0.3

----- Month=November STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	19	32.3	0.2	22.9	6.07	7.58	576	0.3
2001	November	26	19	32.3	0.5	22.9	5.86	7.58	575	0.3
2001	November	26	19	32.3	1.0	22.9	5.91	7.58	575	0.3
2001	November	26	19	32.3	1.5	22.9	5.74	7.59	576	0.3
2001	November	26	19	32.3	2.0	23.0	5.83	7.59	576	0.3
2001	November	26	19	32.3	2.5	23.0	5.70	7.59	576	0.3
2001	November	26	19	32.3	3.0	23.0	5.69	7.59	576	0.3

----- Month=November STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	21	8.4	0.2	23.7	4.54	7.53	39869	25.5
2001	November	26	21	8.4	0.5	23.7	4.52	7.51	39852	25.4
2001	November	26	21	8.4	1.0	23.6	4.44	7.52	40133	25.7
2001	November	26	21	8.4	1.5	23.3	4.04	7.51	40886	26.2
2001	November	26	21	8.4	2.0	23.2	3.91	7.50	40923	26.3

----- Month=November STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	22	12.8	0.2	24.1	4.60	7.35	27744	17.0
2001	November	26	22	12.8	0.5	24.1	4.62	7.36	27627	16.9
2001	November	26	22	12.8	1.0	23.9	4.40	7.34	28254	17.3
2001	November	26	22	12.8	1.5	23.9	4.40	7.35	29279	18.1
2001	November	26	22	12.8	2.0	23.9	4.18	7.36	31214	19.5
2001	November	26	22	12.8	2.5	23.9	4.24	7.36	32461	20.2
2001	November	26	22	12.8	3.0	23.8	4.08	7.37	33379	20.9
2001	November	26	22	12.8	3.5	23.8	3.98	7.36	33589	21.0

----- Month=November STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	23	17.5	0.2	24.7	4.86	7.26	17462	10.3
2001	November	26	23	17.5	0.5	24.6	4.72	7.25	17702	10.4
2001	November	26	23	17.5	1.0	24.5	4.55	7.25	18430	10.9
2001	November	26	23	17.5	1.5	24.0	3.83	7.18	20685	12.3

----- Month=November STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	24	21.9	0.2	24.0	5.41	7.31	4935	2.7
2001	November	26	24	21.9	0.5	24.0	5.40	7.31	4868	2.7
2001	November	26	24	21.9	1.0	24.0	5.33	7.31	4852	2.7
2001	November	26	24	21.9	1.5	24.0	5.05	7.27	6682	3.7
2001	November	26	24	21.9	2.0	24.2	4.98	7.26	7559	4.2
2001	November	26	24	21.9	2.5	24.1	4.99	7.25	7662	4.3
2001	November	26	24	21.9	3.0	24.1	4.90	7.24	7851	4.4

----- Month=November STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	25	24.7	0.2	24.0	6.27	7.51	875	0.5
2001	November	26	25	24.7	0.5	23.8	5.98	7.50	903	0.5
2001	November	26	25	24.7	1.0	23.6	5.96	7.50	877	0.5
2001	November	26	25	24.7	1.5	23.7	5.93	7.51	836	0.4
2001	November	26	25	24.7	2.0	23.6	5.92	7.51	837	0.4
2001	November	26	25	24.7	2.5	23.6	5.88	7.50	851	0.4
2001	November	26	25	24.7	3.0	23.6	5.77	7.50	855	0.4

----- Month=November STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	92	12.7	0.2	24.0	4.95	7.37	26492	16.2
2001	November	26	92	12.7	0.5	23.8	4.81	7.38	28402	17.4
2001	November	26	92	12.7	1.0	23.8	4.65	7.36	28389	17.9
2001	November	26	92	12.7	1.5	23.6	4.33	7.36	29384	18.2
2001	November	26	92	12.7	2.0	23.5	4.13	7.33	29510	18.2
2001	November	26	92	12.7	2.5	23.6	4.15	7.33	29665	18.3
2001	November	26	92	12.7	3.0	23.5	4.09	7.32	29804	18.4
2001	November	26	92	12.7	3.5	23.5	4.03	7.32	29812	18.4

----- Month=December STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	9	-2.4	0.2	18.4	6.77	7.65	46031	29.9
2001	December	26	9	-2.4	0.5	18.4	6.69	7.67	46031	29.9
2001	December	26	9	-2.4	1.0	18.4	6.54	7.70	46014	29.9
2001	December	26	9	-2.4	1.5	18.4	6.39	7.70	46022	29.9
2001	December	26	9	-2.4	2.0	18.4	6.46	7.70	46015	29.9
2001	December	26	9	-2.4	2.5	18.4	6.46	7.70	45986	29.9
2001	December	26	9	-2.4	3.0	18.4	6.51	7.70	45986	29.9
2001	December	26	9	-2.4	3.5	18.4	6.44	7.70	45975	29.9

----- Month=December STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	10	6.6	0.2	17.6	6.95	7.62	38916	24.8
2001	December	26	10	6.6	0.5	17.5	6.77	7.62	38825	24.7
2001	December	26	10	6.6	1.0	17.5	6.73	7.62	39087	24.8
2001	December	26	10	6.6	1.5	17.7	6.61	7.64	40377	25.8
2001	December	26	10	6.6	2.0	17.7	6.61	7.64	40379	25.9
2001	December	26	10	6.6	2.5	17.7	6.59	7.64	40406	25.9

----- Month=December STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	11	10.5	0.2	17.0	7.38	7.51	28059	17.3
2001	December	26	11	10.5	0.5	17.1	7.28	7.53	27998	17.2
2001	December	26	11	10.5	1.0	17.1	7.19	7.54	27893	17.1
2001	December	26	11	10.5	1.5	17.1	7.13	7.55	28079	17.3
2001	December	26	11	10.5	2.0	17.1	7.21	7.55	28078	17.2

----- Month=December STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	12	15.5	0.2	18.0	7.31	7.45	20057	11.9
2001	December	26	12	15.5	0.5	18.1	7.07	7.48	20105	11.9
2001	December	26	12	15.5	1.0	18.1	7.07	7.49	20058	11.9
2001	December	26	12	15.5	1.5	18.0	7.05	7.49	20049	11.9
2001	December	26	12	15.5	2.0	18.1	6.97	7.49	20749	12.3
2001	December	26	12	15.5	2.5	18.2	6.90	7.49	21602	12.9
2001	December	26	12	15.5	3.0	18.4	6.38	7.43	23011	13.9

----- Month=December STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	13	20.1	0.2	18.1	7.82	7.48	12170	7.0
2001	December	26	13	20.1	0.5	18.3	7.27	7.46	13864	7.8
2001	December	26	13	20.1	1.0	18.7	6.29	7.33	17036	9.8
2001	December	26	13	20.1	1.5	18.7	5.94	7.32	19000	11.3
2001	December	26	13	20.1	2.0	18.6	6.01	7.34	19514	11.6
2001	December	26	13	20.1	2.5	18.6	5.98	7.34	19470	11.5
2001	December	26	13	20.1	3.0	18.6	6.01	7.34	19540	11.6
2001	December	26	13	20.1	3.5	18.6	6.01	7.35	19531	11.6

----- Month=December STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	14	23.6	0.2	18.0	8.02	7.61	2239	1.2
2001	December	26	14	23.6	0.5	18.0	7.78	7.62	2313	1.2
2001	December	26	14	23.6	1.0	18.0	7.77	7.63	2300	1.2
2001	December	26	14	23.6	1.5	18.0	7.29	7.54	2726	1.5
2001	December	26	14	23.6	2.0	17.9	7.27	7.51	2767	1.6
2001	December	26	14	23.6	2.5	17.9	7.26	7.52	3007	1.6
2001	December	26	14	23.6	3.0	17.9	7.18	7.52	3080	1.7

----- Month=December STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	15	25.9	0.2	17.8	8.56	7.88	739	0.4
2001	December	26	15	25.9	0.5	17.8	8.45	7.90	741	0.4
2001	December	26	15	25.9	1.0	17.8	8.50	7.90	741	0.4

----- Month=December STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	17	29.5	0.2	17.5	8.35	7.77	645	0.3
2001	December	26	17	29.5	0.5	17.7	8.17	7.77	645	0.3
2001	December	26	17	29.5	1.0	17.7	8.07	7.78	645	0.3
2001	December	26	17	29.5	1.5	17.7	8.00	7.77	645	0.3
2001	December	26	17	29.5	2.0	17.7	7.94	7.77	645	0.3

----- Month=December STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	18	30.4	0.2	17.8	8.56	7.83	645	0.3
2001	December	26	18	30.4	0.5	17.9	8.42	7.83	646	0.3
2001	December	26	18	30.4	1.0	17.7	8.23	7.82	646	0.3
2001	December	26	18	30.4	1.5	17.7	8.16	7.82	646	0.3
2001	December	26	18	30.4	2.0	17.6	8.12	7.82	645	0.3
2001	December	26	18	30.4	2.5	17.5	7.91	7.80	645	0.3
2001	December	26	18	30.4	3.0	17.4	7.70	7.77	645	0.3
2001	December	26	18	30.4	3.5	17.4	7.69	7.77	645	0.3

----- Month=December STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	19	32.3	0.2	16.9	8.54	7.72	649	0.3
2001	December	26	19	32.3	0.5	17.0	8.25	7.72	650	0.3
2001	December	26	19	32.3	1.0	17.0	8.03	7.72	650	0.3
2001	December	26	19	32.3	1.5	16.9	7.92	7.33	650	0.3
2001	December	26	19	32.3	2.0	16.9	7.90	7.33	650	0.3

----- Month=December STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	21	8.4	0.2	17.1	7.32	7.55	34251	21.5
2001	December	26	21	8.4	0.5	17.2	7.24	7.57	34216	21.4
2001	December	26	21	8.4	1.0	17.2	6.95	7.58	34587	21.8
2001	December	26	21	8.4	1.5	17.3	6.79	7.58	34777	22.0

----- Month=December STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	22	12.8	0.2	17.2	7.19	7.45	24503	14.8
2001	December	26	22	12.8	0.5	17.5	6.98	7.47	24488	14.8
2001	December	26	22	12.8	1.0	17.5	6.95	7.48	24480	14.8
2001	December	26	22	12.8	1.5	17.5	6.90	7.49	24480	14.8
2001	December	26	22	12.8	2.0	17.4	6.90	7.49	24594	14.9
2001	December	26	22	12.8	2.5	17.4	7.00	7.51	24767	15.0
2001	December	26	22	12.8	3.0	17.3	6.97	7.50	25112	15.3
2001	December	26	22	12.8	3.5	17.2	6.95	7.50	25139	15.3

----- Month=December STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	23	17.5	0.2	18.1	7.46	7.42	17769	10.4
2001	December	26	23	17.5	0.5	18.1	7.33	7.45	17635	10.4
2001	December	26	23	17.5	1.0	18.1	7.17	7.45	17671	10.5
2001	December	26	23	17.5	1.5	18.4	6.37	7.38	20758	12.5

----- Month=December STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	24	21.9	0.2	18.3	7.62	7.45	5169	2.8
2001	December	26	24	21.9	0.5	18.4	7.45	7.46	5117	2.8
2001	December	26	24	21.9	1.0	18.4	7.09	7.42	6333	3.5
2001	December	26	24	21.9	1.5	18.5	7.02	7.41	6492	3.6
2001	December	26	24	21.9	2.0	18.3	6.92	7.41	7914	4.2

----- Month=December STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	25	24.7	0.2	18.1	9.05	7.82	1204	0.6
2001	December	26	25	24.7	0.5	18.1	8.60	7.77	1246	0.7
2001	December	26	25	24.7	1.0	18.1	8.33	7.76	1382	0.7
2001	December	26	25	24.7	1.5	17.9	8.07	7.73	1390	0.7
2001	December	26	25	24.7	2.0	18.0	8.04	7.70	1453	0.8
2001	December	26	25	24.7	2.5	18.0	7.86	7.68	1693	0.9

----- Month=December STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	92	12.7	0.2	17.3	7.23	7.43	23752	14.4
2001	December	26	92	12.7	0.5	17.4	7.08	7.45	23734	14.3
2001	December	26	92	12.7	1.0	17.4	6.99	7.47	23735	14.3
2001	December	26	92	12.7	1.5	17.4	6.86	7.47	23842	14.4
2001	December	26	92	12.7	2.0	17.4	6.87	7.48	23970	14.5
2001	December	26	92	12.7	2.5	17.5	6.76	7.47	24196	14.7
2001	December	26	92	12.7	3.0	17.5	6.73	7.48	25062	15.2
2001	December	26	92	12.7	3.5	17.4	6.80	7.48	25700	16.7



Back to Start

APPENDIX E

Summary of *In Situ* Physical Water Column Data Collected at “Fixed” Sampling Locations

----- Month=January STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	9	-2.4	0.2	16.4	7.74	7.50	50144	32.9
2001	January	17	9	-2.4	0.5	16.1	7.76	7.50	50202	33.0
2001	January	17	9	-2.4	1.0	16.1	7.76	7.50	50285	32.1
2001	January	17	9	-2.4	1.5	16.0	7.66	7.50	50327	33.1
2001	January	17	9	-2.4	2.0	15.2	7.32	7.50	51743	34.1
2001	January	17	9	-2.4	2.5	15.0	7.13	7.48	51822	34.2
2001	January	17	9	-2.4	3.0	15.0	7.15	7.48	51838	34.2
2001	January	17	9	-2.4	3.5	15.0	7.11	7.48	51819	34.2
2001	January	17	9	-2.4	3.9	15.0	7.10	7.48	51803	34.2

----- Month=January STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	10	6.6	0.2	17.3	7.34	7.49	46327	30.1
2001	January	17	10	6.6	0.5	16.6	7.30	7.50	47739	31.1
2001	January	17	10	6.6	1.0	16.3	7.22	7.50	48495	31.7
2001	January	17	10	6.6	1.5	16.2	7.21	7.49	48638	31.8
2001	January	17	10	6.6	2.0	15.7	6.99	7.49	49903	32.8
2001	January	17	10	6.6	2.3	15.7	6.95	7.49	49947	32.8

----- Month=January STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	11	10.5	0.2	18.8	7.52	7.51	40033	25.5
2001	January	17	11	10.5	0.5	18.5	7.39	7.51	40257	25.7
2001	January	17	11	10.5	1.0	18.1	7.23	7.51	41491	26.6
2001	January	17	11	10.5	1.5	17.9	7.04	7.49	42851	27.6
2001	January	17	11	10.5	2.0	17.6	6.85	7.48	43574	28.2
2001	January	17	11	10.5	2.5	17.6	6.78	7.47	43651	28.2
2001	January	17	11	10.5	3.0	17.6	6.72	7.47	43649	28.2

----- Month=January STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	12	15.5	0.2	19.6	8.88	7.63	25465	15.3
2001	January	17	12	15.5	0.5	19.7	8.45	7.59	25719	15.7
2001	January	17	12	15.5	1.0	19.0	7.85	7.54	29118	17.9
2001	January	17	12	15.5	1.5	18.8	7.61	7.51	29802	18.4
2001	January	17	12	15.5	2.0	18.8	7.39	7.50	30170	18.7
2001	January	17	12	15.5	2.5	18.8	7.28	7.48	30614	19.0
2001	January	17	12	15.5	3.0	18.7	6.88	7.44	31002	19.3

----- Month=January STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	13	20.1	0.2	19.8	10.73	7.90	18439	10.8
2001	January	17	13	20.1	0.5	19.6	10.40	7.83	19346	11.5
2001	January	17	13	20.1	1.0	19.1	9.97	7.77	20376	12.1
2001	January	17	13	20.1	1.5	18.7	8.59	7.59	21966	13.2
2001	January	17	13	20.1	2.0	18.6	8.24	7.55	22779	13.7
2001	January	17	13	20.1	2.5	18.6	8.00	7.53	23367	14.0
2001	January	17	13	20.1	3.0	18.6	7.87	7.51	23947	14.5
2001	January	17	13	20.1	3.5	18.6	7.48	7.47	24068	14.6
2001	January	17	13	20.1	3.9	18.6	7.22	7.44	24131	14.6

----- Month=January STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	14	23.6	0.2	20.5	12.11	8.18	7431	4.2
2001	January	17	14	23.6	0.5	20.6	12.13	8.21	7525	4.2
2001	January	17	14	23.6	1.0	20.1	12.07	8.18	7647	4.3
2001	January	17	14	23.6	1.5	19.3	11.75	8.05	8498	4.8
2001	January	17	14	23.6	2.0	18.6	11.09	7.94	9155	5.2
2001	January	17	14	23.6	2.5	18.4	10.55	7.84	10305	5.9
2001	January	17	14	23.6	3.0	18.4	10.15	7.80	11646	6.6
2001	January	17	14	23.6	3.2	18.4	9.63	7.72	12675	7.2

----- Month=January STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	15	25.9	0.2	19.1	11.88	8.28	2350	1.3
2001	January	17	15	25.9	0.5	19.1	11.92	8.27	2325	1.2
2001	January	17	15	25.9	1.0	19.0	11.78	8.26	2407	1.3

----- Month=January STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	17	29.5	0.2	19.0	11.46	8.30	1126	0.6
2001	January	17	17	29.5	0.5	19.0	11.37	8.29	1125	0.6
2001	January	17	17	29.5	1.0	19.0	11.28	8.29	1125	0.6
2001	January	17	17	29.5	1.5	19.0	11.26	8.29	1125	0.6

----- Month=January STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	18	30.4	0.2	19.5	11.28	8.30	1089	0.6
2001	January	17	18	30.4	0.5	19.5	11.09	8.31	1084	0.6
2001	January	17	18	30.4	1.0	19.0	10.72	8.24	1081	0.6
2001	January	17	18	30.4	1.5	19.0	10.80	8.24	1081	0.6
2001	January	17	18	30.4	2.0	18.9	11.05	8.30	1088	0.6
2001	January	17	18	30.4	2.5	18.9	11.06	8.30	1090	0.6
2001	January	17	18	30.4	3.0	18.9	11.11	8.31	1090	0.6
2001	January	17	18	30.4	3.3	18.9	11.07	8.30	1089	0.6

----- Month=January STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	19	32.3	0.2	18.9	9.17	7.96	1001	0.5
2001	January	17	19	32.3	0.5	18.9	9.08	7.94	1001	0.5
2001	January	17	19	32.3	1.0	18.9	9.01	7.94	1002	0.5
2001	January	17	19	32.3	1.5	18.9	9.02	7.92	1002	0.5
2001	January	17	19	32.3	2.0	18.9	8.96	7.93	1001	0.5
2001	January	17	19	32.3	2.5	18.9	8.91	7.92	1001	0.5
2001	January	17	19	32.3	3.0	18.9	8.91	7.92	1001	0.5
2001	January	17	19	32.3	3.2	18.9	8.88	7.92	1001	0.5

----- Month=January STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	21	8.4	0.2	18.0	7.66	7.52	44153	28.4
2001	January	17	21	8.4	0.5	17.0	7.40	7.52	46745	30.5
2001	January	17	21	8.4	1.0	16.7	7.21	7.50	47417	30.9
2001	January	17	21	8.4	1.5	16.5	7.05	7.49	47723	31.1
2001	January	17	21	8.4	1.7	16.5	7.00	7.49	47723	31.2

----- Month=January STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	22	12.8	0.2	19.9	7.81	7.54	30656	18.9
2001	January	17	22	12.8	0.5	19.1	7.67	7.53	31877	19.9
2001	January	17	22	12.8	1.0	18.6	7.15	7.47	34321	21.6
2001	January	17	22	12.8	1.5	18.5	6.83	7.45	35578	22.4
2001	January	17	22	12.8	2.0	18.5	6.88	7.47	36577	23.1
2001	January	17	22	12.8	2.5	18.5	6.81	7.46	36866	23.4
2001	January	17	22	12.8	3.0	18.5	6.78	7.46	36894	23.4

----- Month=January STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	23	17.5	0.2	20.1	9.54	7.78	21191	12.8
2001	January	17	23	17.5	0.5	19.2	9.08	7.66	23479	13.9
2001	January	17	23	17.5	1.0	18.9	8.45	7.56	25352	15.4
2001	January	17	23	17.5	1.5	18.8	8.17	7.53	25787	15.7

----- Month=January STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	24	21.9	0.2	19.7	12.56	8.16	11485	6.6
2001	January	17	24	21.9	0.5	19.5	12.17	8.06	11843	6.9
2001	January	17	24	21.9	1.0	19.0	11.40	7.96	13645	7.7
2001	January	17	24	21.9	1.5	18.8	10.82	7.88	14799	8.6

----- Month=January STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	25	24.7	0.2	19.8	12.22	8.23	5070	2.8
2001	January	17	25	24.7	0.5	19.4	12.01	8.19	5242	2.9
2001	January	17	25	24.7	1.0	19.1	11.62	8.08	5670	3.2
2001	January	17	25	24.7	1.5	18.6	10.93	7.95	6449	3.6

----- Month=January STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	January	17	92	12.7	0.2	20.0	7.36	7.49	33051	20.8
2001	January	17	92	12.7	0.5	18.9	7.30	7.48	34018	21.3
2001	January	17	92	12.7	1.0	19.0	7.23	7.49	35098	22.1
2001	January	17	92	12.7	1.5	18.7	7.26	7.49	35567	22.4
2001	January	17	92	12.7	2.0	18.7	7.17	7.49	35729	22.5
2001	January	17	92	12.7	2.5	18.7	7.16	7.48	35743	22.5
2001	January	17	92	12.7	3.0	18.7	7.07	7.48	35815	22.6
2001	January	17	92	12.7	3.5	18.8	7.05	7.48	36082	22.8

----- Month=February STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	9	-2.4	0.2	20.8	6.46	7.84	50570	33.2
2001	February	14	9	-2.4	0.5	20.8	6.42	7.84	50554	33.2
2001	February	14	9	-2.4	1.0	20.8	6.41	7.84	50554	33.2
2001	February	14	9	-2.4	1.5	20.8	6.41	7.84	50539	33.2
2001	February	14	9	-2.4	2.0	20.8	6.39	7.84	50536	33.2
2001	February	14	9	-2.4	2.5	20.7	6.29	7.83	50893	33.3
2001	February	14	9	-2.4	3.0	20.4	5.59	7.78	50963	33.5
2001	February	14	9	-2.4	3.5	20.4	5.55	7.78	50945	33.5
2001	February	14	9	-2.4	3.8	20.4	5.51	7.78	50951	33.5

----- Month=February STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	10	6.6	0.2	21.6	6.37	7.78	45973	29.9
2001	February	14	10	6.6	0.5	21.6	6.18	7.77	46123	30.0
2001	February	14	10	6.6	1.0	21.6	6.11	7.77	46233	30.1
2001	February	14	10	6.6	1.5	21.6	5.94	7.76	46708	30.4
2001	February	14	10	6.6	2.0	21.7	5.74	7.76	47998	31.2
2001	February	14	10	6.6	2.3	21.7	5.56	7.75	48073	31.4

----- Month=February STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	11	10.5	0.2	22.4	6.18	7.75	37444	23.7
2001	February	14	11	10.5	0.5	22.4	6.11	7.75	37575	23.9
2001	February	14	11	10.5	1.0	22.4	6.10	7.75	37831	24.1
2001	February	14	11	10.5	1.5	21.9	5.86	7.74	41145	26.3
2001	February	14	11	10.5	2.0	21.9	5.65	7.73	41813	26.9
2001	February	14	11	10.5	2.5	21.9	5.47	7.71	42080	27.1
2001	February	14	11	10.5	2.9	22.0	5.39	7.71	42089	27.1

----- Month=February STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	12	15.5	0.2	23.6	7.48	7.86	25264	15.4
2001	February	14	12	15.5	0.5	23.2	6.78	7.77	25855	15.7
2001	February	14	12	15.5	1.0	23.2	5.72	7.64	28365	17.4
2001	February	14	12	15.5	1.5	23.1	5.78	7.68	29087	17.9
2001	February	14	12	15.5	2.0	23.2	5.55	7.67	29885	18.5
2001	February	14	12	15.5	2.5	23.3	5.50	7.66	30286	18.8
2001	February	14	12	15.5	3.0	23.4	5.10	7.63	30533	18.9

----- Month=February STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	13	20.1	0.2	24.0	6.29	7.58	16556	9.7
2001	February	14	13	20.1	0.5	23.7	6.02	7.56	16933	10.0
2001	February	14	13	20.1	1.0	23.4	5.31	7.46	18232	10.8
2001	February	14	13	20.1	1.5	23.4	5.39	7.47	18321	10.9
2001	February	14	13	20.1	2.0	23.4	5.33	7.49	19164	11.1
2001	February	14	13	20.1	2.5	23.4	5.04	7.45	19702	11.7
2001	February	14	13	20.1	3.0	23.3	4.59	7.41	20940	12.5
2001	February	14	13	20.1	3.5	23.2	4.41	7.42	21870	13.1
2001	February	14	13	20.1	4.0	23.2	4.40	7.43	22252	13.3
2001	February	14	13	20.1	4.5	23.2	4.20	7.40	22354	13.4

----- Month=February STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	14	23.6	0.2	24.2	10.08	8.27	6298	3.5
2001	February	14	14	23.6	0.5	24.2	10.04	8.28	6216	3.4
2001	February	14	14	23.6	1.0	24.2	9.46	8.16	6787	3.8
2001	February	14	14	23.6	1.5	23.9	8.80	7.99	7303	4.1
2001	February	14	14	23.6	2.0	23.6	8.30	7.89	7260	4.0
2001	February	14	14	23.6	2.5	23.5	7.84	7.80	7652	4.3
2001	February	14	14	23.6	3.0	23.5	7.22	7.68	8094	4.5

----- Month=February STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	15	25.9	0.2	23.9	7.88	7.66	1422	0.8
2001	February	14	15	25.9	0.5	23.7	7.50	7.57	1461	0.8
2001	February	14	15	25.9	1.0	23.7	7.33	7.55	1465	0.8

----- Month=February STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	17	29.5	0.2	24.3	6.29	7.56	882	0.5
2001	February	14	17	29.5	0.5	24.2	6.17	7.55	882	0.5
2001	February	14	17	29.5	1.0	24.2	6.13	7.54	883	0.5
2001	February	14	17	29.5	1.5	24.1	6.47	7.58	894	0.5
2001	February	14	17	29.5	2.0	23.9	6.75	7.62	934	0.5
2001	February	14	17	29.5	2.5	23.7	6.84	7.62	941	0.5
2001	February	14	17	29.5	3.0	23.7	6.87	7.63	942	0.5
2001	February	14	17	29.5	3.4	23.6	6.73	7.62	943	0.5

----- Month=February STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	18	30.4	0.2	23.9	6.30	7.64	855	0.4
2001	February	14	18	30.4	0.5	24.0	6.19	7.64	855	0.4
2001	February	14	18	30.4	1.0	24.0	6.05	7.64	856	0.4
2001	February	14	18	30.4	1.5	24.0	5.81	7.64	851	0.4
2001	February	14	18	30.4	2.0	23.8	5.65	7.61	850	0.4
2001	February	14	18	30.4	2.5	23.7	5.69	7.62	851	0.4
2001	February	14	18	30.4	3.0	23.7	5.64	7.60	852	0.4

----- Month=February STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	19	32.3	0.2	24.0	6.30	7.86	815	0.4
2001	February	14	19	32.3	0.5	23.9	6.27	7.85	815	0.4
2001	February	14	19	32.3	1.0	24.0	6.25	7.85	816	0.4
2001	February	14	19	32.3	1.5	23.9	6.23	7.86	816	0.4
2001	February	14	19	32.3	2.0	23.9	6.18	7.85	815	0.4
2001	February	14	19	32.3	2.5	23.9	6.17	7.85	816	0.4
2001	February	14	19	32.3	2.8	23.9	6.15	7.85	816	0.4

----- Month=February STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	21	8.4	0.2	22.1	6.18	7.76	41281	26.5
2001	February	14	21	8.4	0.5	22.0	6.01	7.75	41769	27.2
2001	February	14	21	8.4	1.0	21.7	5.70	7.74	44122	28.5
2001	February	14	21	8.4	1.5	21.8	5.61	7.73	44217	28.6

----- Month=February STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	22	12.8	0.2	23.6	6.69	7.78	30242	18.7
2001	February	14	22	12.8	0.5	23.2	6.06	7.73	31067	19.7
2001	February	14	22	12.8	1.0	22.6	5.82	7.72	33655	21.1
2001	February	14	22	12.8	1.5	22.6	5.56	7.70	34330	21.5
2001	February	14	22	12.8	2.0	22.5	5.50	7.70	35113	27.1
2001	February	14	22	12.8	2.5	22.5	5.48	7.70	35584	22.4
2001	February	14	22	12.8	3.0	22.5	5.33	7.69	35786	22.6

----- Month=February STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	23	17.5	0.2	23.8	6.49	7.65	19168	11.3
2001	February	14	23	17.5	0.5	23.3	5.50	7.55	22706	13.6
2001	February	14	23	17.5	1.0	23.3	5.03	7.50	23950	14.6
2001	February	14	23	17.5	1.2	23.3	4.86	7.50	24426	14.8

----- Month=February STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	24	21.9	0.2	23.9	7.96	7.85	9146	5.2
2001	February	14	24	21.9	0.5	23.7	7.42	7.75	10021	5.3
2001	February	14	24	21.9	1.0	23.2	6.56	7.58	11310	6.3
2001	February	14	24	21.9	1.5	23.1	5.95	7.51	12162	7.0
2001	February	14	24	21.9	1.9	23.1	5.68	7.47	12405	7.1

----- Month=February STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	25	24.7	0.2	23.8	9.46	8.03	3409	1.9
2001	February	14	25	24.7	0.5	23.8	9.29	8.01	3414	1.9
2001	February	14	25	24.7	1.0	23.5	8.70	7.87	4074	2.2
2001	February	14	25	24.7	1.4	23.1	7.11	7.61	5451	3.0

----- Month=February STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	February	14	92	12.7	0.2	23.1	6.54	7.74	31160	19.4
2001	February	14	92	12.7	0.5	22.9	6.03	7.72	32600	20.4
2001	February	14	92	12.7	1.0	22.6	5.93	7.73	34016	21.4
2001	February	14	92	12.7	1.5	22.5	5.74	7.71	34579	21.7
2001	February	14	92	12.7	2.0	22.5	5.72	7.71	34661	21.8
2001	February	14	92	12.7	2.5	22.5	5.55	7.70	34759	21.9
2001	February	14	92	12.7	3.0	22.5	5.50	7.70	34785	21.9
2001	February	14	92	12.7	3.2	22.5	5.43	7.69	34804	21.9

----- Month=March STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	9	-2.4	0.2	23.0	6.76	7.70	51771	34.1
2001	March	15	9	-2.4	0.5	23.0	6.68	7.71	51796	34.1
2001	March	15	9	-2.4	1.0	23.0	6.68	7.71	51788	34.1
2001	March	15	9	-2.4	1.5	23.0	6.70	7.71	51760	34.1
2001	March	15	9	-2.4	2.0	23.0	6.67	7.72	51777	34.1
2001	March	15	9	-2.4	2.5	23.0	6.67	7.72	51805	34.1
2001	March	15	9	-2.4	3.0	23.0	6.65	7.73	51766	34.1
2001	March	15	9	-2.4	3.5	23.0	6.61	7.73	51767	34.1
2001	March	15	9	-2.4	4.0	23.0	6.45	7.71	51737	34.1

----- Month=March STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	10	6.6	0.2	24.0	5.72	7.54	48908	32.0
2001	March	15	10	6.6	0.5	24.0	5.56	7.54	48898	32.0
2001	March	15	10	6.6	1.0	24.0	5.55	7.54	48887	32.0
2001	March	15	10	6.6	1.5	24.0	5.53	7.54	48909	32.0
2001	March	15	10	6.6	2.0	24.0	5.40	7.53	48941	32.0
2001	March	15	10	6.6	2.4	24.0	4.93	7.50	48923	32.0

----- Month=March STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	11	10.5	0.2	24.5	5.61	7.48	43830	28.3
2001	March	15	11	10.5	0.5	24.5	5.30	7.47	43822	28.3
2001	March	15	11	10.5	1.0	24.4	5.28	7.47	43868	28.4
2001	March	15	11	10.5	1.5	24.3	5.05	7.46	44509	28.8
2001	March	15	11	10.5	2.0	24.3	4.97	7.45	44642	28.9
2001	March	15	11	10.5	2.5	24.3	4.90	7.45	44913	29.1
2001	March	15	11	10.5	3.0	24.3	4.85	7.44	44903	29.1
2001	March	15	11	10.5	3.2	24.3	4.82	7.44	44901	29.1

----- Month=March STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	12	15.5	0.2	24.6	5.49	7.42	35602	22.5
2001	March	15	12	15.5	0.5	24.6	5.42	7.41	35609	22.5
2001	March	15	12	15.5	1.0	24.6	5.41	7.41	35661	22.5
2001	March	15	12	15.5	1.5	24.5	5.38	7.41	35691	22.5
2001	March	15	12	15.5	2.0	24.5	5.22	7.39	35780	22.6
2001	March	15	12	15.5	2.5	24.5	5.13	7.38	36013	22.7
2001	March	15	12	15.5	3.0	24.4	5.05	7.38	36093	22.8
2001	March	15	12	15.5	3.4	24.3	4.90	7.37	36214	22.9

----- Month=March STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	13	20.1	0.2	24.8	5.21	7.27	28245	17.4
2001	March	15	13	20.1	0.5	24.8	5.18	7.26	25260	17.4
2001	March	15	13	20.1	1.0	24.8	4.91	7.22	28188	17.4
2001	March	15	13	20.1	1.5	24.5	4.79	7.20	28289	17.4
2001	March	15	13	20.1	2.0	24.4	4.52	7.18	28579	17.6
2001	March	15	13	20.1	2.5	24.4	4.62	7.21	28684	17.7
2001	March	15	13	20.1	3.0	24.4	4.60	7.20	28773	17.7
2001	March	15	13	20.1	3.5	24.4	4.51	7.20	28807	17.8
2001	March	15	13	20.1	4.0	24.4	4.46	7.18	28842	17.8
2001	March	15	13	20.1	4.5	24.4	4.48	7.18	28833	17.8
2001	March	15	13	20.1	5.0	24.4	4.50	7.21	28869	17.8
2001	March	15	13	20.1	5.2	24.4	4.48	7.20	28851	17.8

----- Month=March STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	14	23.6	0.2	25.1	5.82	7.17	17697	10.4
2001	March	15	14	23.6	0.5	25.1	5.71	7.17	17637	10.4
2001	March	15	14	23.6	1.0	25.0	5.68	7.16	17652	10.4
2001	March	15	14	23.6	1.5	24.6	4.87	7.05	18180	10.7
2001	March	15	14	23.6	2.0	24.5	4.63	7.04	18687	11.1
2001	March	15	14	23.6	2.5	24.4	4.49	7.02	18714	11.1
2001	March	15	14	23.6	3.0	24.4	4.33	7.00	18804	11.1
2001	March	15	14	23.6	3.5	24.3	4.09	6.99	19073	11.3
2001	March	15	14	23.6	3.8	24.3	3.97	6.97	19126	11.3

----- Month=March STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	15	25.9	0.2	25.3	6.94	7.24	10974	6.2
2001	March	15	15	25.9	0.5	25.4	6.42	7.23	10993	6.3
2001	March	15	15	25.9	1.0	25.1	5.64	7.13	11347	6.5

----- Month=March STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	17	29.5	0.2	24.6	6.15	7.30	3150	1.6
2001	March	15	17	29.5	0.5	24.6	5.82	7.25	3236	1.8
2001	March	15	17	29.5	1.0	24.5	5.80	7.23	3304	1.8
2001	March	15	17	29.5	1.5	24.5	5.69	7.21	3339	1.8
2001	March	15	17	29.5	2.0	24.6	5.82	7.24	3285	1.8
2001	March	15	17	29.5	2.5	24.5	5.66	7.23	3285	1.8
2001	March	15	17	29.5	3.0	24.3	5.48	7.19	3411	1.9
2001	March	15	17	29.5	3.5	24.3	5.35	7.19	3431	1.8
2001	March	15	17	29.5	4.0	24.0	5.01	7.13	3745	2.1

----- Month=March STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	18	30.4	0.2	24.7	6.43	7.36	2269	1.2
2001	March	15	18	30.4	0.5	24.7	6.24	7.32	2272	1.2
2001	March	15	18	30.4	1.0	24.6	6.06	7.31	2298	1.2
2001	March	15	18	30.4	1.5	24.6	6.00	7.26	2304	1.2
2001	March	15	18	30.4	2.0	24.5	5.84	7.25	2324	1.3
2001	March	15	18	30.4	2.5	24.4	5.54	7.22	2392	1.3
2001	March	15	18	30.4	3.0	24.4	5.39	7.21	2435	1.3
2001	March	15	18	30.4	3.5	24.3	5.12	7.18	2468	1.3
2001	March	15	18	30.4	4.0	24.2	4.92	7.16	2479	1.3

----- Month=March STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	19	32.3	0.2	24.6	5.26	7.31	1313	0.7
2001	March	15	19	32.3	0.5	24.6	5.15	7.31	1310	0.7
2001	March	15	19	32.3	1.0	24.7	5.10	7.30	1296	0.7
2001	March	15	19	32.3	1.5	24.6	5.12	7.31	1315	0.7
2001	March	15	19	32.3	2.0	24.7	5.09	7.30	1304	0.7
2001	March	15	19	32.3	2.5	24.7	5.09	7.31	1332	0.7
2001	March	15	19	32.3	3.0	24.7	5.04	7.31	1305	0.7
2001	March	15	19	32.3	3.5	24.7	5.11	7.31	1305	0.7

----- Month=March STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	21	8.4	0.2	24.1	5.39	7.48	47024	30.6
2001	March	15	21	8.4	0.5	24.1	5.26	7.48	47033	30.7
2001	March	15	21	8.4	1.0	24.1	5.19	7.48	47051	30.7
2001	March	15	21	8.4	1.5	24.1	5.17	7.48	47049	30.7
2001	March	15	21	8.4	2.0	24.1	5.09	7.48	47022	30.6

----- Month=March STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	22	12.8	0.2	24.5	5.31	7.43	39838	29.4
2001	March	15	22	12.8	0.5	24.5	5.23	7.43	39851	29.5
2001	March	15	22	12.8	1.0	24.5	5.19	7.43	39828	29.4
2001	March	15	22	12.8	1.5	24.4	5.06	7.42	40118	29.7
2001	March	15	22	12.8	2.0	24.4	5.06	7.42	40171	29.7
2001	March	15	22	12.8	2.5	24.4	4.95	7.42	40211	29.7
2001	March	15	22	12.8	3.0	24.4	4.96	7.42	40301	29.8
2001	March	15	22	12.8	3.5	24.4	4.92	7.41	40308	29.8

----- Month=March STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	23	17.5	0.2	24.6	5.73	7.39	32012	20.0
2001	March	15	23	17.5	0.5	24.6	5.65	7.38	31968	19.9
2001	March	15	23	17.5	1.0	24.6	5.59	7.38	32080	20.0
2001	March	15	23	17.5	1.5	24.6	5.55	7.39	32533	20.3
2001	March	15	23	17.5	1.7	24.6	5.52	7.38	32516	20.3

----- Month=March STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	24	21.9	0.2	24.8	5.15	7.09	20541	12.2
2001	March	15	24	21.9	0.5	24.8	4.80	7.08	20592	12.3
2001	March	15	24	21.9	1.0	25.0	5.18	7.16	21247	12.8
2001	March	15	24	21.9	1.3	25.1	5.16	7.16	21564	12.9

----- Month=March STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	25	24.7	0.2	25.1	5.91	7.14	13741	7.9
2001	March	15	25	24.7	0.5	27.7	5.22	7.09	14333	8.2
2001	March	15	25	24.7	1.0	24.4	4.54	6.99	14714	8.6
2001	March	15	25	24.7	1.5	24.4	4.14	6.96	15158	8.8

----- Month=March STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	March	15	92	12.7	0.2	24.6	5.44	7.44	39074	24.9
2001	March	15	92	12.7	0.5	24.6	5.35	7.44	39117	24.9
2001	March	15	92	12.7	1.0	24.6	5.33	7.43	39108	25.0
2001	March	15	92	12.7	1.5	24.6	5.30	7.43	39165	25.0
2001	March	15	92	12.7	2.0	24.6	5.32	7.43	39158	25.0
2001	March	15	92	12.7	2.5	24.6	5.21	7.42	39312	25.1
2001	March	15	92	12.7	3.0	24.5	5.07	7.41	39442	25.2
2001	March	15	92	12.7	3.5	24.5	5.03	7.42	39486	25.2
2001	March	15	92	12.7	3.7	24.5	4.96	7.41	39502	25.2

----- Month=April STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	9	-2.4	0.2	23.8	5.37	7.75	50711	33.3
2001	April	27	9	-2.4	0.5	23.8	5.23	7.78	50654	33.3
2001	April	27	9	-2.4	1.0	23.8	5.16	7.80	50637	33.3
2001	April	27	9	-2.4	1.5	23.8	5.19	7.81	50647	33.3
2001	April	27	9	-2.4	2.0	23.8	5.17	7.82	50648	33.3
2001	April	27	9	-2.4	2.5	23.8	5.09	7.83	50664	33.3
2001	April	27	9	-2.4	3.0	23.8	5.08	7.83	50648	33.3
2001	April	27	9	-2.4	3.5	23.8	5.05	7.84	50673	33.3

----- Month=April STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	10	6.6	0.2	23.2	5.18	7.77	44552	28.8
2001	April	27	10	6.6	0.5	23.2	5.05	7.77	44567	28.9
2001	April	27	10	6.6	1.0	23.2	4.98	7.77	44690	29.0
2001	April	27	10	6.6	1.5	23.0	4.88	7.76	45129	29.4
2001	April	27	10	6.6	2.0	22.8	4.79	7.75	45478	29.5

----- Month=April STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	11	10.5	0.2	22.7	5.30	7.63	33082	20.7
2001	April	27	11	10.5	0.5	22.7	5.26	7.64	33125	20.7
2001	April	27	11	10.5	1.0	22.7	5.24	7.63	33792	20.9
2001	April	27	11	10.5	1.5	22.7	5.14	7.63	33917	21.2
2001	April	27	11	10.5	2.0	22.7	5.00	7.63	34753	21.8
2001	April	27	11	10.5	2.5	22.7	4.99	7.62	34858	21.9
2001	April	27	11	10.5	2.8	22.7	4.97	7.62	34859	21.9

----- Month=April STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	12	15.5	0.2	23.7	5.96	7.63	21513	12.9
2001	April	27	12	15.5	0.5	23.7	5.82	7.62	21391	12.9
2001	April	27	12	15.5	1.0	23.6	5.41	7.56	22661	13.7
2001	April	27	12	15.5	1.5	23.6	5.29	7.55	22999	13.8
2001	April	27	12	15.5	2.0	23.5	5.22	7.54	23082	13.9
2001	April	27	12	15.5	2.5	23.7	4.43	7.44	25334	15.4
2001	April	27	12	15.5	2.9	23.7	4.34	7.44	25336	15.4

----- Month=April STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	13	20.1	0.2	24.3	6.71	7.74	12899	7.4
2001	April	27	13	20.1	0.5	24.1	6.27	7.66	14032	8.1
2001	April	27	13	20.1	1.0	24.2	5.46	7.49	15039	8.7
2001	April	27	13	20.1	1.5	24.3	4.20	7.30	16713	9.8
2001	April	27	13	20.1	2.0	24.3	3.96	7.29	17140	10.1
2001	April	27	13	20.1	2.5	24.4	3.72	7.26	17674	10.4
2001	April	27	13	20.1	3.0	24.4	3.66	7.26	17701	10.4
2001	April	27	13	20.1	3.5	24.4	3.65	7.27	17717	10.4
2001	April	27	13	20.1	3.8	24.4	3.64	7.26	17834	10.5

----- Month=April STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	14	23.6	0.2	25.0	5.61	7.43	4308	3.4
2001	April	27	14	23.6	0.5	24.9	5.09	7.43	4341	2.4
2001	April	27	14	23.6	1.0	24.4	4.82	7.39	4440	2.4
2001	April	27	14	23.6	1.5	24.2	4.40	7.31	4912	2.7
2001	April	27	14	23.6	2.0	24.1	4.26	7.30	5066	2.8
2001	April	27	14	23.6	2.5	24.1	4.18	7.30	5074	2.8
2001	April	27	14	23.6	3.0	24.1	4.18	7.30	5088	2.8
2001	April	27	14	23.6	3.5	24.1	4.12	7.30	5090	2.8
2001	April	27	14	23.6	4.0	24.1	4.14	7.30	5092	2.8

----- Month=April STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	15	25.9	0.2	26.5	6.03	7.65	2011	1.1
2001	April	27	15	25.9	0.5	25.5	5.50	7.56	2011	1.1
2001	April	27	15	25.9	1.0	25.2	5.17	7.50	2071	1.1
2001	April	27	15	25.9	1.2	25.2	5.12	7.49	2076	1.1

----- Month=April STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	17	29.5	0.2	26.1	6.15	7.79	1023	0.5
2001	April	27	17	29.5	0.5	26.1	5.96	7.79	1022	0.5
2001	April	27	17	29.5	1.0	25.9	5.94	7.79	1021	0.5
2001	April	27	17	29.5	1.5	25.3	5.65	7.72	1017	0.5
2001	April	27	17	29.5	2.0	25.1	5.60	7.71	1018	0.5
2001	April	27	17	29.5	2.5	24.9	5.46	7.68	1020	0.5
2001	April	27	17	29.5	3.0	24.8	5.34	7.66	1023	0.5
2001	April	27	17	29.5	3.5	24.7	5.27	7.64	1023	0.5

----- Month=April STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	18	30.4	0.2	25.9	6.52	7.87	1006	0.5
2001	April	27	18	30.4	0.5	25.8	6.21	7.86	1005	0.5
2001	April	27	18	30.4	1.0	25.7	6.10	7.84	1005	0.5
2001	April	27	18	30.4	1.5	25.7	6.08	7.82	1006	0.5
2001	April	27	18	30.4	2.0	25.6	5.93	7.81	1006	0.5
2001	April	27	18	30.4	2.5	25.2	5.57	7.68	1004	0.5
2001	April	27	18	30.4	3.0	24.9	5.36	7.67	1008	0.5
2001	April	27	18	30.4	3.5	24.9	5.43	7.69	1008	0.5

----- Month=April STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	19	32.3	0.2	26.5	6.59	8.09	983	0.5
2001	April	27	19	32.3	0.5	26.1	6.27	8.08	984	0.5
2001	April	27	19	32.3	1.0	25.9	6.25	8.09	983	0.5
2001	April	27	19	32.3	1.5	25.8	6.36	8.14	983	0.5
2001	April	27	19	32.3	2.0	25.3	6.12	8.01	985	0.5
2001	April	27	19	32.3	2.5	25.2	5.94	7.99	986	0.5
2001	April	27	19	32.3	3.0	25.2	5.85	7.98	987	0.5
2001	April	27	19	32.3	3.5	25.2	5.88	7.98	987	0.5

----- Month=April STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	21	8.4	0.2	22.9	5.45	7.73	41097	26.4
2001	April	27	21	8.4	0.5	22.9	5.20	7.74	41159	26.4
2001	April	27	21	8.4	1.0	23.0	5.13	7.73	41595	26.6
2001	April	27	21	8.4	1.5	23.2	4.61	7.71	43793	28.3

----- Month=April STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	22	12.8	0.2	22.4	5.73	7.56	28365	17.5
2001	April	27	22	12.8	0.5	22.5	5.33	7.56	28386	17.4
2001	April	27	22	12.8	1.0	22.4	5.17	7.56	28377	17.4
2001	April	27	22	12.8	1.5	22.4	5.12	7.55	28486	17.5
2001	April	27	22	12.8	2.0	22.4	5.09	7.56	28787	17.7
2001	April	27	22	12.8	2.5	22.1	4.78	7.52	29399	18.2
2001	April	27	22	12.8	3.0	22.1	4.69	7.52	29536	18.2

----- Month=April STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	23	17.5	0.2	24.0	6.47	7.66	17119	10.0
2001	April	27	23	17.5	0.5	24.0	6.15	7.66	16970	10.0
2001	April	27	23	17.5	1.0	24.0	5.85	7.61	17236	10.2
2001	April	27	23	17.5	1.3	24.1	5.50	7.56	17738	10.4

----- Month=April STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	24	21.9	0.2	24.9	4.99	7.38	7961	4.5
2001	April	27	24	21.9	0.5	24.9	4.82	7.37	7954	4.5
2001	April	27	24	21.9	1.0	24.6	4.57	7.33	8400	4.7
2001	April	27	24	21.9	1.5	24.5	4.46	7.31	8931	5.0
2001	April	27	24	21.9	1.6	24.5	4.40	7.31	9009	5.1

----- Month=April STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	25	24.7	0.2	25.5	5.32	7.50	2972	1.6
2001	April	27	25	24.7	0.5	25.2	5.44	7.51	2969	1.6
2001	April	27	25	24.7	1.0	24.7	5.03	7.46	3075	1.7
2001	April	27	25	24.7	1.5	24.6	4.87	7.43	3093	1.7
2001	April	27	25	24.7	2.0	24.5	4.70	7.40	3084	1.7

----- Month=April STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	April	27	92	12.7	0.2	22.7	5.56	7.59	28578	17.6
2001	April	27	92	12.7	0.5	22.7	5.31	7.59	28643	17.7
2001	April	27	92	12.7	1.0	22.8	5.20	7.58	28766	17.7
2001	April	27	92	12.7	1.5	22.9	5.09	7.57	28895	17.8
2001	April	27	92	12.7	2.0	22.9	5.05	7.56	29008	17.9
2001	April	27	92	12.7	2.5	22.9	5.02	7.56	29051	17.9
2001	April	27	92	12.7	3.0	22.9	4.93	7.56	29044	17.9
2001	April	27	92	12.7	3.2	22.9	4.92	7.56	29060	17.9

----- Month=May STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	9	-2.4	0.2	28.8	6.67	7.95	56779	37.8
2001	May	29	9	-2.4	0.5	28.8	6.63	7.94	56789	37.9
2001	May	29	9	-2.4	1.0	28.8	6.66	7.95	56784	37.8
2001	May	29	9	-2.4	1.5	28.8	6.60	7.95	56739	37.9
2001	May	29	9	-2.4	2.0	28.7	6.53	7.93	56750	37.9
2001	May	29	9	-2.4	2.5	28.7	6.32	7.93	56764	37.8
2001	May	29	9	-2.4	3.0	28.7	6.30	7.93	56775	37.8
2001	May	29	9	-2.4	3.5	28.7	6.39	7.92	56762	37.9
2001	May	29	9	-2.4	4.0	28.7	6.28	7.92	56762	37.8

----- Month=May STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	10	6.6	0.2	28.9	5.78	7.86	53730	35.6
2001	May	29	10	6.6	0.5	28.9	5.65	7.86	53722	35.6
2001	May	29	10	6.6	1.0	28.8	5.59	7.86	53764	35.6
2001	May	29	10	6.6	1.5	28.8	5.41	7.85	53814	35.7
2001	May	29	10	6.6	2.0	28.7	5.14	7.84	53912	35.7
2001	May	29	10	6.6	2.5	28.7	5.19	7.85	54027	35.8

----- Month=May STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	11	10.5	0.2	28.7	5.21	7.67	49129	32.2
2001	May	29	11	10.5	0.5	28.7	5.12	7.67	49124	32.2
2001	May	29	11	10.5	1.0	28.7	5.18	7.67	49120	32.2
2001	May	29	11	10.5	1.5	28.5	4.97	7.66	49202	32.2
2001	May	29	11	10.5	2.0	28.5	4.65	7.64	49422	32.4
2001	May	29	11	10.5	2.5	28.5	4.56	7.64	49620	32.6
2001	May	29	11	10.5	3.0	28.4	4.33	7.63	49781	32.7

----- Month=May STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	12	15.5	0.2	28.4	5.25	7.42	42116	27.1
2001	May	29	12	15.5	0.5	28.4	5.06	7.41	42150	27.1
2001	May	29	12	15.5	1.0	28.3	5.03	7.40	42158	27.1
2001	May	29	12	15.5	1.5	28.2	4.76	7.38	42153	27.1
2001	May	29	12	15.5	2.0	27.9	4.59	7.36	42407	27.3
2001	May	29	12	15.5	2.5	27.7	4.36	7.35	42663	27.5
2001	May	29	12	15.5	3.0	27.7	4.23	7.33	42681	27.5
2001	May	29	12	15.5	3.5	27.7	4.22	7.33	42674	27.5

----- Month=May STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	13	20.1	0.2	29.2	4.48	7.20	34579	21.7
2001	May	29	13	20.1	0.5	29.0	4.28	7.17	34581	21.7
2001	May	29	13	20.1	1.0	28.3	3.56	7.11	35296	22.2
2001	May	29	13	20.1	1.5	28.2	3.36	7.09	35304	22.3
2001	May	29	13	20.1	2.0	28.2	3.35	7.09	35351	22.3
2001	May	29	13	20.1	2.5	28.2	3.32	7.09	35445	22.3
2001	May	29	13	20.1	3.0	28.2	3.31	7.09	35593	22.4
2001	May	29	13	20.1	3.5	28.2	3.24	7.08	35604	22.5
2001	May	29	13	20.1	4.0	28.2	3.18	7.08	35659	22.5

----- Month=May STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	14	23.6	0.2	29.8	6.35	7.26	23044	13.9
2001	May	29	14	23.6	0.5	29.7	6.26	7.27	23817	14.4
2001	May	29	14	23.6	1.0	29.7	6.04	7.24	23737	14.3
2001	May	29	14	23.6	1.5	28.8	4.88	7.07	24465	14.8
2001	May	29	14	23.6	2.0	28.4	4.54	7.03	24568	14.9
2001	May	29	14	23.6	2.5	28.3	4.18	7.00	24651	14.9
2001	May	29	14	23.6	3.0	28.3	4.03	6.99	24746	15.0
2001	May	29	14	23.6	3.5	28.0	3.40	6.94	25466	15.5
2001	May	29	14	23.6	4.0	28.0	3.21	6.93	25703	15.6

----- Month=May STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	15	25.9	0.2	30.3	7.98	7.55	15849	9.3
2001	May	29	15	25.9	0.5	29.5	7.59	7.45	16317	9.5
2001	May	29	15	25.9	1.0	28.6	6.98	7.28	16473	9.6
2001	May	29	15	25.9	1.2	28.3	6.48	7.19	16650	9.7

----- Month=May STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	17	29.5	0.2	28.7	7.51	7.47	5216	2.9
2001	May	29	17	29.5	0.5	28.1	7.08	7.35	5828	3.2
2001	May	29	17	29.5	1.0	28.6	6.93	7.31	6486	3.6
2001	May	29	17	29.5	1.5	28.2	6.45	7.25	6613	3.6
2001	May	29	17	29.5	2.0	28.1	6.51	7.26	7030	3.9
2001	May	29	17	29.5	2.5	28.3	6.46	7.25	7189	4.0
2001	May	29	17	29.5	3.0	28.1	5.95	7.18	7420	4.2
2001	May	29	17	29.5	3.5	28.0	5.70	7.15	7690	4.3
2001	May	29	17	29.5	4.0	27.9	5.14	7.09	8109	4.6
2001	May	29	17	29.5	4.5	27.9	5.12	7.09	8296	4.6

----- Month=May STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	18	30.4	0.2	28.9	7.11	7.41	3991	2.2
2001	May	29	18	30.4	0.5	28.8	6.82	7.34	4018	2.2
2001	May	29	18	30.4	1.0	28.7	7.02	7.37	4780	2.6
2001	May	29	18	30.4	1.5	28.6	6.99	7.35	4926	2.7
2001	May	29	18	30.4	2.0	28.4	6.55	7.29	5105	2.8
2001	May	29	18	30.4	2.5	28.2	5.86	7.19	5188	2.9
2001	May	29	18	30.4	3.0	28.0	5.54	7.18	5380	3.0
2001	May	29	18	30.4	3.5	28.0	5.19	7.12	5432	3.0
2001	May	29	18	30.4	4.0	28.0	4.94	7.09	5476	3.0

----- Month=May STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	19	32.3	0.2	29.6	6.07	7.35	2667	1.4
2001	May	29	19	32.3	0.5	29.3	5.96	7.34	2662	1.4
2001	May	29	19	32.3	1.0	29.2	5.73	7.30	2687	1.5
2001	May	29	19	32.3	1.5	28.7	5.25	7.24	2738	1.5
2001	May	29	19	32.3	2.0	28.7	5.13	7.22	2743	1.5
2001	May	29	19	32.3	2.5	28.7	5.19	7.23	2744	1.5
2001	May	29	19	32.3	3.0	28.7	5.16	7.23	2739	1.5
2001	May	29	19	32.3	3.5	28.7	5.12	7.22	2747	1.5

----- Month=May STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	21	8.4	0.2	28.8	5.51	7.83	53137	35.1
2001	May	29	21	8.4	0.5	28.8	5.48	7.83	53152	35.1
2001	May	29	21	8.4	1.0	28.8	5.45	7.83	53133	35.1
2001	May	29	21	8.4	1.5	28.8	5.39	7.82	53089	35.1
2001	May	29	21	8.4	2.0	28.7	5.28	7.82	53102	35.1

----- Month=May STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	22	12.8	0.2	28.6	5.13	7.53	45636	29.6
2001	May	29	22	12.8	0.5	28.4	5.08	7.54	46097	30.0
2001	May	29	22	12.8	1.0	28.3	4.98	7.53	46406	30.2
2001	May	29	22	12.8	1.5	28.3	4.91	7.53	46521	30.3
2001	May	29	22	12.8	2.0	28.3	4.82	7.53	46520	30.3
2001	May	29	22	12.8	2.5	28.3	4.76	7.52	46558	30.3
2001	May	29	22	12.8	3.0	28.2	4.69	7.52	46540	30.3
2001	May	29	22	12.8	3.5	28.2	4.61	7.51	46591	30.3

----- Month=May STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	23	17.5	0.2	28.8	4.91	7.30	38524	24.5
2001	May	29	23	17.5	0.5	28.8	4.78	7.30	38571	24.5
2001	May	29	23	17.5	1.0	28.8	4.99	7.34	38880	24.9
2001	May	29	23	17.5	1.5	28.8	4.81	7.32	39460	25.2
2001	May	29	23	17.5	1.8	28.6	4.59	7.30	39548	25.2

----- Month=May STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	24	21.9	0.2	29.2	5.35	7.19	25269	15.3
2001	May	29	24	21.9	0.5	29.3	5.18	7.13	25366	15.3
2001	May	29	24	21.9	1.0	29.3	4.88	7.11	26080	16.0
2001	May	29	24	21.9	1.5	28.9	4.24	7.08	30573	19.0
2001	May	29	24	21.9	2.0	28.7	3.76	7.03	30529	18.9

----- Month=May STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	25	24.7	0.2	30.0	7.32	7.37	19318	11.5
2001	May	29	25	24.7	0.5	28.6	6.34	7.18	20007	11.9
2001	May	29	25	24.7	1.0	28.9	6.37	7.21	20995	12.5
2001	May	29	25	24.7	1.5	28.4	5.37	7.08	21897	13.1
2001	May	29	25	24.7	2.0	28.2	4.71	7.00	21958	13.1

----- Month=May STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	May	29	92	12.7	0.2	28.6	5.29	7.50	44762	29.0
2001	May	29	92	12.7	0.5	28.5	5.22	7.50	45017	29.0
2001	May	29	92	12.7	1.0	28.5	5.09	7.51	45123	29.2
2001	May	29	92	12.7	1.5	28.5	5.09	7.51	45229	29.3
2001	May	29	92	12.7	2.0	28.4	4.77	7.49	45532	29.6
2001	May	29	92	12.7	2.5	28.3	4.67	7.48	45596	29.6
2001	May	29	92	12.7	3.0	28.2	4.54	7.47	45567	29.6
2001	May	29	92	12.7	3.5	28.2	4.48	7.48	45596	29.6
2001	May	29	92	12.7	4.0	28.2	4.50	7.47	45613	29.6

----- Month=June STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	9	-2.4	0.2	28.3	6.53	7.85	54576	36.2
2001	June	26	9	-2.4	0.5	28.3	6.48	7.86	54586	36.2
2001	June	26	9	-2.4	1.0	28.3	6.20	7.85	54667	36.3
2001	June	26	9	-2.4	1.5	28.4	5.78	7.83	54924	36.4
2001	June	26	9	-2.4	2.0	28.5	5.33	7.80	55172	36.7
2001	June	26	9	-2.4	2.5	28.7	4.63	7.76	55554	36.9
2001	June	26	9	-2.4	3.0	28.6	3.65	7.69	55851	37.2
2001	June	26	9	-2.4	3.5	28.6	3.14	7.67	55981	37.3
2001	June	26	9	-2.4	4.0	28.6	2.48	7.63	56340	37.5

----- Month=June STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	10	6.6	0.2	27.5	7.48	7.96	37743	24.3
2001	June	26	10	6.6	0.5	27.7	6.97	7.93	42590	28.0
2001	June	26	10	6.6	1.0	28.5	6.07	7.84	47626	31.4
2001	June	26	10	6.6	1.5	28.8	5.23	7.77	51365	33.8
2001	June	26	10	6.6	2.0	28.8	4.81	7.76	52055	34.3
2001	June	26	10	6.6	2.5	28.8	4.79	7.76	52072	34.4

----- Month=June STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	11	10.5	0.2	28.1	8.01	7.96	33476	20.5
2001	June	26	11	10.5	0.5	28.8	6.53	7.86	40806	26.0
2001	June	26	11	10.5	1.0	28.8	6.00	7.82	41452	26.6
2001	June	26	11	10.5	1.5	28.8	5.70	7.81	42999	27.7
2001	June	26	11	10.5	2.0	28.9	5.27	7.78	44518	28.8
2001	June	26	11	10.5	2.5	28.7	5.45	7.80	45664	29.7
2001	June	26	11	10.5	3.0	28.7	5.41	7.80	45763	29.7

----- Month=June STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	12	15.5	0.2	29.0	6.54	7.49	16186	9.5
2001	June	26	12	15.5	0.5	28.0	6.23	7.44	17478	10.3
2001	June	26	12	15.5	1.0	27.8	6.25	7.48	19534	11.6
2001	June	26	12	15.5	1.5	27.8	6.12	7.49	21497	12.9
2001	June	26	12	15.5	2.0	27.7	5.89	7.49	22599	13.6
2001	June	26	12	15.5	2.5	27.5	5.51	7.45	23274	14.0
2001	June	26	12	15.5	3.0	27.4	5.32	7.44	23689	14.3

----- Month=June STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	13	20.1	0.2	28.9	4.45	7.13	6685	3.7
2001	June	26	13	20.1	0.5	28.8	4.25	7.12	6572	3.6
2001	June	26	13	20.1	1.0	28.5	3.94	7.10	7238	3.9
2001	June	26	13	20.1	1.5	28.2	3.74	7.07	7316	4.3
2001	June	26	13	20.1	2.0	28.2	3.68	7.05	8457	5.0
2001	June	26	13	20.1	2.5	28.3	3.57	7.05	10839	6.2
2001	June	26	13	20.1	3.0	28.3	3.53	7.05	11334	6.5
2001	June	26	13	20.1	3.5	28.3	3.50	7.06	11718	6.7
2001	June	26	13	20.1	4.0	28.3	3.57	7.07	11954	6.8

----- Month=June STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	14	23.6	0.2	29.2	4.50	7.22	1184	0.6
2001	June	26	14	23.6	0.5	28.8	4.40	7.21	1170	0.6
2001	June	26	14	23.6	1.0	28.4	4.21	7.20	1168	0.6
2001	June	26	14	23.6	1.5	28.3	4.08	7.18	1167	0.6
2001	June	26	14	23.6	2.0	28.1	4.04	7.18	1183	0.6
2001	June	26	14	23.6	2.5	28.1	3.98	7.17	1203	0.6
2001	June	26	14	23.6	3.0	28.0	3.89	7.17	1215	0.6
2001	June	26	14	23.6	3.5	28.1	3.92	7.17	1222	0.7

----- Month=June STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	15	25.9	0.2	28.6	5.07	7.27	826	0.4
2001	June	26	15	25.9	0.5	28.5	4.96	7.27	826	0.4
2001	June	26	15	25.9	1.0	28.5	4.83	7.27	826	0.4

----- Month=June STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	17	29.5	0.2	28.4	5.46	7.34	760	0.4
2001	June	26	17	29.5	0.5	28.0	5.28	7.33	758	0.4
2001	June	26	17	29.5	1.0	27.9	5.16	7.32	750	0.4
2001	June	26	17	29.5	1.5	27.9	5.15	7.33	751	0.4
2001	June	26	17	29.5	2.0	27.9	5.10	7.32	751	0.4
2001	June	26	17	29.5	2.5	27.9	5.07	7.31	750	0.4
2001	June	26	17	29.5	3.0	27.9	5.06	7.31	750	0.4
2001	June	26	17	29.5	3.5	28.0	5.05	7.32	753	0.4
2001	June	26	17	29.5	4.0	27.9	4.99	7.32	749	0.4
2001	June	26	17	29.5	4.5	27.9	5.03	7.32	752	0.4

----- Month=June STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	18	30.4	0.2	28.1	5.30	7.32	749	0.4
2001	June	26	18	30.4	0.5	27.8	5.17	7.32	750	0.4
2001	June	26	18	30.4	1.0	27.4	5.04	7.31	736	0.4
2001	June	26	18	30.4	1.5	27.3	4.97	7.31	741	0.4
2001	June	26	18	30.4	2.0	27.3	5.02	7.31	742	0.4
2001	June	26	18	30.4	2.5	27.3	4.97	7.30	741	0.4
2001	June	26	18	30.4	3.0	27.3	4.90	7.30	742	0.4

----- Month=June STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	19	32.3	0.2	28.1	5.79	7.39	690	0.4
2001	June	26	19	32.3	0.5	28.0	5.62	7.38	691	0.4
2001	June	26	19	32.3	1.0	28.1	5.54	7.38	691	0.4
2001	June	26	19	32.3	1.5	28.0	5.54	7.38	691	0.4
2001	June	26	19	32.3	2.0	28.1	5.53	7.38	691	0.4
2001	June	26	19	32.3	2.5	28.1	5.54	7.38	691	0.4
2001	June	26	19	32.3	3.0	28.1	5.46	7.38	691	0.4
2001	June	26	19	32.3	3.5	28.1	5.47	7.38	691	0.4

----- Month=June STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	21	8.4	0.2	27.9	8.12	7.99	35986	22.7
2001	June	26	21	8.4	0.5	28.0	7.09	7.94	43964	27.7
2001	June	26	21	8.4	1.0	28.6	6.24	7.86	46999	30.6
2001	June	26	21	8.4	1.5	28.7	5.74	7.84	47250	30.8
2001	June	26	21	8.4	2.0	28.7	5.60	7.83	47302	30.8

----- Month=June STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	22	12.8	0.2	29.2	8.45	7.90	23543	14.3
2001	June	26	22	12.8	0.5	28.4	8.62	7.91	25150	15.5
2001	June	26	22	12.8	1.0	27.9	7.14	7.76	28824	17.8
2001	June	26	22	12.8	1.5	27.4	6.56	7.72	29884	18.5
2001	June	26	22	12.8	2.0	27.6	6.21	7.71	30657	19.0
2001	June	26	22	12.8	2.5	27.7	6.25	7.74	31559	19.6

----- Month=June STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	23	17.5	0.2	29.4	6.01	7.34	10838	6.2
2001	June	26	23	17.5	0.5	28.4	4.56	7.16	13902	7.9
2001	June	26	23	17.5	1.0	28.2	4.55	7.20	16204	9.5
2001	June	26	23	17.5	1.5	28.2	4.37	7.19	16622	9.9

----- Month=June STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	24	21.9	0.2	29.0	4.83	7.22	1934	1.0
2001	June	26	24	21.9	0.5	28.7	4.45	7.18	2071	1.1
2001	June	26	24	21.9	1.0	28.1	3.84	7.13	2488	1.3
2001	June	26	24	21.9	1.5	27.8	3.59	7.09	2733	1.4
2001	June	26	24	21.9	2.0	27.7	3.43	7.09	2815	1.5

----- Month=June STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	25	24.7	0.2	28.5	4.62	7.23	941	0.5
2001	June	26	25	24.7	0.5	28.4	4.47	7.22	936	0.5
2001	June	26	25	24.7	1.0	28.3	4.40	7.22	930	0.5
2001	June	26	25	24.7	1.5	28.2	4.31	7.21	932	0.5
2001	June	26	25	24.7	2.0	28.2	4.32	7.21	931	0.5

----- Month=June STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	June	26	92	12.7	0.2	28.2	5.93	7.48	17181	9.8
2001	June	26	92	12.7	0.5	28.0	7.11	7.80	27990	17.2
2001	June	26	92	12.7	1.0	28.0	6.64	7.78	30625	19.1
2001	June	26	92	12.7	1.5	28.0	6.36	7.75	31279	19.4
2001	June	26	92	12.7	2.0	28.1	6.23	7.76	32164	20.1
2001	June	26	92	12.7	2.5	28.1	6.25	7.77	33084	20.7
2001	June	26	92	12.7	3.0	28.1	6.23	7.76	33197	20.8
2001	June	26	92	12.7	3.5	28.1	6.21	7.76	33208	20.8

----- Month=July STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	9	-2.4	0.2	27.3	6.37	7.43	13847	8.0
2001	July	26	9	-2.4	0.5	27.3	6.31	7.41	13800	8.0
2001	July	26	9	-2.4	1.0	27.3	6.22	7.41	13808	8.0
2001	July	26	9	-2.4	1.5	27.2	6.32	7.44	14057	8.1
2001	July	26	9	-2.4	2.0	26.8	5.38	7.76	29207	21.7
2001	July	26	9	-2.4	2.5	26.9	6.16	7.86	36705	23.2
2001	July	26	9	-2.4	3.0	26.6	4.95	7.75	37952	24.1
2001	July	26	9	-2.4	3.5	26.7	3.27	7.63	40065	25.6
2001	July	26	9	-2.4	4.0	26.7	2.86	7.61	40282	25.7

----- Month=July STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	10	6.6	0.2	27.1	4.51	6.99	1524	0.8
2001	July	26	10	6.6	0.5	27.0	4.70	6.98	1822	1.0
2001	July	26	10	6.6	1.0	26.9	4.04	6.92	7217	3.9
2001	July	26	10	6.6	1.5	26.9	3.15	7.01	14045	8.6
2001	July	26	10	6.6	2.0	27.0	1.58	7.26	32540	20.2
2001	July	26	10	6.6	2.5	26.9	1.28	7.32	34193	21.5

----- Month=July STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	11	10.5	0.2	26.7	4.26	7.00	434	0.2
2001	July	26	11	10.5	0.5	26.7	4.30	7.01	436	0.2
2001	July	26	11	10.5	1.0	26.7	4.20	7.01	437	0.2
2001	July	26	11	10.5	1.5	26.7	4.05	7.01	437	0.2
2001	July	26	11	10.5	2.0	26.7	4.02	7.01	438	0.2
2001	July	26	11	10.5	2.5	26.7	3.98	7.01	439	0.2
2001	July	26	11	10.5	3.0	26.7	3.92	7.01	439	0.2

----- Month=July STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	12	15.5	0.2	26.6	4.08	6.90	310	0.2
2001	July	26	12	15.5	0.5	26.5	3.85	6.90	312	0.2
2001	July	26	12	15.5	1.0	26.5	3.53	6.89	307	0.2
2001	July	26	12	15.5	1.5	26.4	3.40	6.89	306	0.2
2001	July	26	12	15.5	2.0	26.4	3.36	6.89	306	0.2
2001	July	26	12	15.5	2.5	26.4	3.33	6.89	304	0.2
2001	July	26	12	15.5	3.0	26.4	3.29	6.88	303	0.2
2001	July	26	12	15.5	3.5	26.4	3.28	6.88	302	0.2

----- Month=July STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	13	20.1	0.2	26.8	3.67	6.88	289	0.1
2001	July	26	13	20.1	0.5	26.8	3.51	6.88	297	0.1
2001	July	26	13	20.1	1.0	26.8	3.39	6.88	299	0.1
2001	July	26	13	20.1	1.5	26.8	3.30	6.88	291	0.1
2001	July	26	13	20.1	2.0	26.8	3.25	6.88	282	0.1
2001	July	26	13	20.1	2.5	26.8	3.26	6.88	286	0.1
2001	July	26	13	20.1	3.0	26.8	3.23	6.88	287	0.1

----- Month=July STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	14	23.6	0.2	26.9	3.79	6.85	293	0.1
2001	July	26	14	23.6	0.5	27.0	3.30	6.86	300	0.2
2001	July	26	14	23.6	1.0	26.9	3.11	6.85	284	0.1
2001	July	26	14	23.6	1.5	26.7	3.01	6.86	283	0.1
2001	July	26	14	23.6	2.0	26.8	2.95	6.86	287	0.2
2001	July	26	14	23.6	2.5	26.7	2.94	6.86	287	0.2
2001	July	26	14	23.6	3.0	26.9	2.96	6.86	312	0.1

----- Month=July STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	15	25.9	0.2	26.6	3.30	6.85	273	0.1
2001	July	26	15	25.9	0.5	26.6	3.25	6.85	274	0.1
2001	July	26	15	25.9	1.0	26.6	3.13	6.85	274	0.1
2001	July	26	15	25.9	1.5	26.6	3.18	6.85	274	0.1

----- Month=July STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	17	29.5	0.2	26.5	3.75	6.88	279	0.1
2001	July	26	17	29.5	0.5	26.5	3.36	6.87	285	0.1
2001	July	26	17	29.5	1.0	26.5	3.22	6.87	279	0.1
2001	July	26	17	29.5	1.5	26.5	3.18	6.85	280	0.1
2001	July	26	17	29.5	2.0	26.5	3.18	6.84	279	0.1
2001	July	26	17	29.5	2.5	26.5	3.18	6.84	277	0.1

----- Month=July STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	18	30.4	0.2	26.6	3.87	6.83	252	0.1
2001	July	26	18	30.4	0.5	26.6	3.26	6.77	239	0.1
2001	July	26	18	30.4	1.0	26.6	3.14	6.84	266	0.1
2001	July	26	18	30.4	1.5	26.5	3.09	6.83	269	0.1
2001	July	26	18	30.4	2.0	26.5	3.02	6.80	271	0.1
2001	July	26	18	30.4	2.5	26.5	3.00	6.83	269	0.1
2001	July	26	18	30.4	3.0	26.5	3.01	6.82	269	0.1

----- Month=July STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	19	32.3	0.2	26.7	3.82	6.89	287	0.1
2001	July	26	19	32.3	0.5	26.6	3.47	6.88	288	0.1
2001	July	26	19	32.3	1.0	26.6	3.24	6.88	288	0.1
2001	July	26	19	32.3	1.5	26.6	3.14	6.88	287	0.1
2001	July	26	19	32.3	2.0	26.6	3.10	6.87	283	0.1

----- Month=July STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	21	8.4	0.2	26.7	4.13	6.94	406	0.2
2001	July	26	21	8.4	0.5	26.7	4.14	6.94	410	0.2
2001	July	26	21	8.4	1.0	26.4	3.97	6.94	425	0.2
2001	July	26	21	8.4	1.5	26.3	3.70	6.85	1740	0.8
2001	July	26	21	8.4	2.0	27.0	1.48	6.96	21013	12.5

----- Month=July STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	22	12.8	0.2	26.4	4.24	6.91	325	0.2
2001	July	26	22	12.8	0.5	26.4	3.72	6.90	326	0.2
2001	July	26	22	12.8	1.0	26.4	3.51	6.90	322	0.2
2001	July	26	22	12.8	1.5	26.4	3.40	6.90	324	0.2
2001	July	26	22	12.8	2.0	26.3	3.42	6.90	322	0.2
2001	July	26	22	12.8	2.5	26.4	3.37	6.90	322	0.2
2001	July	26	22	12.8	3.0	26.4	3.40	6.90	326	0.2

----- Month=July STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	23	17.5	0.2	27.0	3.79	6.90	294	0.1
2001	July	26	23	17.5	0.5	26.8	3.63	6.89	293	0.1
2001	July	26	23	17.5	1.0	26.8	3.49	6.89	293	0.1
2001	July	26	23	17.5	1.5	26.8	3.41	6.88	294	0.1

----- Month=July STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	24	21.9	0.2	26.7	3.50	6.87	282	0.1
2001	July	26	24	21.9	0.5	26.7	3.41	6.87	282	0.1
2001	July	26	24	21.9	1.0	26.6	3.32	6.87	282	0.1
2001	July	26	24	21.9	1.5	26.6	3.17	6.87	282	0.1

----- Month=July STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	25	24.7	0.2	26.7	3.65	6.86	275	0.1
2001	July	26	25	24.7	0.5	26.7	3.27	6.85	276	0.1
2001	July	26	25	24.7	1.0	26.7	3.13	6.85	276	0.1
2001	July	26	25	24.7	1.5	26.7	3.10	6.85	275	0.1

----- Month=July STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	July	26	92	12.7	0.2	27.3	4.29	7.03	381	0.2
2001	July	26	92	12.7	0.5	27.2	4.37	7.04	384	0.2
2001	July	26	92	12.7	1.0	27.0	4.11	7.01	385	0.2
2001	July	26	92	12.7	1.5	26.9	3.95	7.01	386	0.2
2001	July	26	92	12.7	2.0	26.9	3.92	7.01	385	0.2
2001	July	26	92	12.7	2.5	26.9	3.85	7.01	385	0.2
2001	July	26	92	12.7	3.0	26.9	3.86	7.01	386	0.2
2001	July	26	92	12.7	3.5	26.9	3.82	7.00	387	0.2

----- Month=August STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	9	-2.4	0.2	29.3	4.39	7.58	27852	17.1
2001	August	27	9	-2.4	0.5	29.3	4.35	7.59	27775	17.1
2001	August	27	9	-2.4	1.0	29.3	4.28	7.58	27861	17.1
2001	August	27	9	-2.4	1.5	29.3	4.18	7.58	28154	17.3
2001	August	27	9	-2.4	2.0	29.4	3.79	7.56	28838	17.8
2001	August	27	9	-2.4	2.5	30.5	1.01	7.47	35627	21.7
2001	August	27	9	-2.4	3.0	30.8	0.57	7.53	37230	23.6
2001	August	27	9	-2.4	3.5	30.8	0.42	7.54	37259	23.6
2001	August	27	9	-2.4	4.0	30.8	0.36	7.54	37280	23.6

----- Month=August STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	10	6.6	0.2	29.7	4.75	7.44	22577	13.6
2001	August	27	10	6.6	0.5	29.6	4.06	7.40	23134	13.9
2001	August	27	10	6.6	1.0	30.1	1.38	7.33	32070	20.0
2001	August	27	10	6.6	1.5	30.4	0.55	7.40	33269	20.9
2001	August	27	10	6.6	2.0	30.5	0.39	7.41	33496	21.0
2001	August	27	10	6.6	2.5	30.5	0.30	7.41	33510	21.0

----- Month=August STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	11	10.5	0.2	29.7	4.89	7.25	9787	5.1
2001	August	27	11	10.5	0.5	29.5	4.53	7.24	11442	6.5
2001	August	27	11	10.5	1.0	30.7	1.85	7.18	24109	14.5
2001	August	27	11	10.5	1.5	30.8	1.42	7.18	24399	14.8
2001	August	27	11	10.5	2.0	30.7	1.10	7.17	24683	15.0
2001	August	27	11	10.5	2.5	30.7	0.68	7.17	26015	15.9
2001	August	27	11	10.5	3.0	30.7	0.42	7.17	26534	16.2
2001	August	27	11	10.5	3.5	30.7	0.33	7.17	26600	16.2

----- Month=August STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	12	15.5	0.2	31.3	4.99	7.18	1621	0.9
2001	August	27	12	15.5	0.5	30.8	4.69	7.17	1586	0.8
2001	August	27	12	15.5	1.0	30.3	4.63	7.16	1566	0.8
2001	August	27	12	15.5	1.5	30.4	3.99	7.08	4364	2.5
2001	August	27	12	15.5	2.0	30.6	3.67	7.08	5923	3.3
2001	August	27	12	15.5	2.5	30.8	3.31	7.07	7365	4.1
2001	August	27	12	15.5	3.0	31.0	2.88	7.05	9843	5.6
2001	August	27	12	15.5	3.5	31.1	2.68	7.05	10258	5.8

----- Month=August STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	13	20.1	0.2	30.7	4.62	7.14	424	0.2
2001	August	27	13	20.1	0.5	30.6	4.41	7.14	424	0.2
2001	August	27	13	20.1	1.0	30.5	4.26	7.14	425	0.2
2001	August	27	13	20.1	1.5	30.3	4.12	7.14	423	0.2
2001	August	27	13	20.1	2.0	30.2	4.07	7.13	423	0.2
2001	August	27	13	20.1	2.5	30.1	4.08	7.13	425	0.2
2001	August	27	13	20.1	3.0	30.1	4.08	7.13	424	0.2
2001	August	27	13	20.1	3.5	30.1	3.97	7.13	421	0.2
2001	August	27	13	20.1	4.0	30.1	3.95	7.13	425	0.2
2001	August	27	13	20.1	4.5	30.1	3.96	7.13	426	0.2

----- Month=August STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	14	23.6	0.2	30.6	4.91	7.17	409	0.2
2001	August	27	14	23.6	0.5	29.5	4.52	7.14	405	0.2
2001	August	27	14	23.6	1.0	29.4	4.41	7.14	405	0.2
2001	August	27	14	23.6	1.5	29.3	4.34	7.14	407	0.2
2001	August	27	14	23.6	2.0	29.3	4.25	7.14	408	0.2
2001	August	27	14	23.6	2.5	29.2	4.30	7.13	408	0.2
2001	August	27	14	23.6	3.0	29.2	4.24	7.13	409	0.2
2001	August	27	14	23.6	3.5	29.2	4.25	7.13	409	0.2

----- Month=August STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	15	25.9	0.2	30.1	4.71	7.14	407	0.2
2001	August	27	15	25.9	0.5	29.8	4.55	7.15	407	0.2
2001	August	27	15	25.9	1.0	29.7	4.50	7.15	406	0.2
2001	August	27	15	25.9	1.5	29.7	4.36	7.15	406	0.2

----- Month=August STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	17	29.5	0.2	29.9	4.93	7.19	414	0.2
2001	August	27	17	29.5	0.5	29.8	4.78	7.19	415	0.2
2001	August	27	17	29.5	1.0	29.5	4.80	7.18	415	0.2
2001	August	27	17	29.5	1.5	29.5	4.70	7.18	415	0.2
2001	August	27	17	29.5	2.0	29.4	4.59	7.17	414	0.2
2001	August	27	17	29.5	2.5	29.2	4.56	7.17	415	0.2
2001	August	27	17	29.5	3.0	29.2	4.47	7.17	413	0.2
2001	August	27	17	29.5	3.5	29.3	4.43	7.16	412	0.2
2001	August	27	17	29.5	4.0	28.7	4.22	7.13	409	0.2

----- Month=August STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	18	30.4	0.2	28.9	4.65	7.18	414	0.2
2001	August	27	18	30.4	0.5	29.7	4.54	7.17	415	0.2
2001	August	27	18	30.4	1.0	29.3	4.49	7.17	417	0.2
2001	August	27	18	30.4	1.5	29.2	4.52	7.17	417	0.2
2001	August	27	18	30.4	2.0	29.2	4.47	7.17	417	0.2
2001	August	27	18	30.4	2.5	29.2	4.46	7.16	417	0.2
2001	August	27	18	30.4	3.0	29.2	4.44	7.16	417	0.2
2001	August	27	18	30.4	3.5	29.2	4.42	7.16	417	0.2

----- Month=August STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	19	32.3	0.2	29.7	5.10	7.17	420	0.2
2001	August	27	19	32.3	0.5	29.6	4.75	7.17	421	0.2
2001	August	27	19	32.3	1.0	29.6	4.76	7.17	421	0.2
2001	August	27	19	32.3	1.5	29.6	4.65	7.18	421	0.2
2001	August	27	19	32.3	2.0	29.6	4.57	7.18	421	0.2
2001	August	27	19	32.3	2.5	29.6	4.58	7.18	421	0.2
2001	August	22	19	32.3	3.0	29.6	4.53	7.18	421	0.2

----- Month=August STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	21	8.4	0.2	29.5	4.69	7.30	13511	7.9
2001	August	27	21	8.4	0.5	29.3	4.01	7.32	16991	10.3
2001	August	27	21	8.4	1.0	30.2	0.76	7.38	30436	18.9
2001	August	27	21	8.4	1.5	30.3	0.46	7.37	30846	19.1
2001	August	27	21	8.4	2.0	30.3	0.31	7.37	30877	19.2

----- Month=August STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	22	12.8	0.2	30.8	5.39	7.20	3391	1.8
2001	August	27	22	12.8	0.5	30.3	4.70	7.16	4564	2.6
2001	August	27	22	12.8	1.0	29.8	3.38	7.13	14347	8.2
2001	August	27	22	12.8	1.5	30.4	2.55	7.12	17444	10.0
2001	August	27	22	12.8	2.0	30.7	1.97	7.10	18673	11.1
2001	August	27	22	12.8	2.5	31.0	1.88	7.15	21053	12.6
2001	August	27	22	12.8	3.0	30.9	1.82	7.16	21486	12.9
2001	August	27	22	12.8	3.5	30.9	1.74	7.17	21859	13.1

----- Month=August STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	23	17.5	0.2	31.3	5.28	7.15	464	0.2
2001	August	27	23	17.5	0.5	31.0	4.74	7.15	466	0.2
2001	August	27	23	17.5	1.0	30.5	4.47	7.15	467	0.2
2001	August	27	23	17.5	1.5	30.4	4.22	7.14	468	0.2

----- Month=August STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	24	21.9	0.2	31.0	4.79	7.17	416	0.2
2001	August	27	24	21.9	0.5	30.5	4.62	7.16	413	0.2
2001	August	27	24	21.9	1.0	29.6	4.34	7.13	414	0.2
2001	August	27	24	21.9	1.5	29.5	4.24	7.13	415	0.2
2001	August	27	24	21.9	2.0	29.5	4.15	7.13	417	0.2
2001	August	27	24	21.9	2.5	29.5	4.15	7.13	418	0.2
2001	August	27	24	21.9	3.0	29.4	4.14	7.13	418	0.2

----- Month=August STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	25	24.7	0.2	30.7	4.57	7.19	404	0.2
2001	August	27	25	24.7	0.5	30.5	4.55	7.18	403	0.2
2001	August	27	25	24.7	1.0	30.0	4.59	7.12	404	0.2
2001	August	27	25	24.7	1.5	29.7	4.41	7.16	403	0.2
2001	August	27	25	24.7	2.0	29.6	4.35	7.16	403	0.2

----- Month=August STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	August	27	92	12.7	0.2	30.4	5.01	7.28	4471	2.5
2001	August	27	92	12.7	0.5	29.9	4.77	7.24	4625	2.5
2001	August	27	92	12.7	1.0	30.6	2.97	7.15	16513	9.7
2001	August	27	92	12.7	1.5	31.0	2.16	7.17	20895	12.5
2001	August	27	92	12.7	2.0	30.9	2.00	7.17	21344	12.8
2001	August	27	92	12.7	2.5	31.0	1.85	7.18	21659	13.0
2001	August	27	92	12.7	3.0	31.0	1.79	7.18	21699	13.0
2001	August	27	92	12.7	3.5	31.0	1.75	7.18	21737	13.0

----- Month=September STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	9	-2.4	0.2	28.4	4.41	7.00	5076	2.8
2001	September	26	9	-2.4	0.5	28.3	4.38	7.01	5071	2.8
2001	September	26	9	-2.4	1.0	28.3	4.29	7.01	5162	2.9
2001	September	26	9	-2.4	1.5	28.3	4.25	7.02	5347	3.0
2001	September	26	9	-2.4	2.0	28.2	2.48	7.04	12845	7.6
2001	September	26	9	-2.4	2.5	27.7	0.56	7.13	22841	13.8
2001	September	26	9	-2.4	3.0	27.3	0.38	7.12	23573	14.2
2001	September	26	9	-2.4	3.5	27.3	0.36	7.12	23579	14.2
2001	September	26	9	-2.4	4.0	27.3	0.31	7.12	23605	14.2

----- Month=September STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	10	6.6	0.2	28.2	3.43	6.95	413	0.2
2001	September	26	10	6.6	0.5	28.1	3.28	6.96	411	0.2
2001	September	26	10	6.6	1.0	28.1	3.18	6.95	501	0.3
2001	September	26	10	6.6	1.5	28.3	2.79	6.86	1669	0.9
2001	September	26	10	6.6	2.0	28.0	0.78	6.99	19478	11.5
2001	September	26	10	6.6	2.5	27.9	0.65	7.00	19601	11.6
2001	September	26	10	6.6	3.0	27.9	0.53	6.99	19881	11.8

----- Month=September STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	11	10.5	0.2	28.1	2.83	6.92	248	0.1
2001	September	26	11	10.5	0.5	28.0	2.64	6.93	247	0.1
2001	September	26	11	10.5	1.0	27.7	2.30	6.91	242	0.1
2001	September	26	11	10.5	1.5	27.7	2.26	6.91	241	0.1
2001	September	26	11	10.5	2.0	27.7	2.25	6.91	241	0.1
2001	September	26	11	10.5	2.5	27.7	2.21	6.91	240	0.1
2001	September	26	11	10.5	3.0	27.7	2.19	6.90	240	0.1

----- Month=September STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	12	15.5	0.2	27.9	2.50	6.90	207	0.1
2001	September	26	12	15.5	0.5	27.4	2.09	6.89	205	0.1
2001	September	26	12	15.5	1.0	27.2	2.02	6.88	204	0.1
2001	September	26	12	15.5	1.5	27.2	1.99	6.88	204	0.1
2001	September	26	12	15.5	2.0	27.2	1.96	6.88	204	0.1
2001	September	26	12	15.5	2.5	27.2	1.93	6.88	204	0.1
2001	September	26	12	15.5	3.0	27.2	1.94	6.88	204	0.1
2001	September	26	12	15.5	3.5	27.2	1.93	6.89	204	0.1

----- Month=September STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	13	20.1	0.2	27.3	2.04	6.89	209	0.1
2001	September	26	13	20.1	0.5	27.3	1.95	6.89	208	0.1
2001	September	26	13	20.1	1.0	27.3	1.89	6.90	208	0.1
2001	September	26	13	20.1	1.5	27.3	1.90	6.89	209	0.1
2001	September	26	13	20.1	2.0	27.3	1.87	6.89	209	0.1
2001	September	26	13	20.1	2.5	27.3	1.85	6.89	208	0.1
2001	September	26	13	20.1	3.0	27.3	1.81	6.90	208	0.1
2001	September	26	13	20.1	3.5	27.3	1.83	6.89	208	0.1
2001	September	26	13	20.1	4.0	27.3	1.80	6.89	209	0.1

----- Month=September STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	14	23.6	0.2	27.2	1.87	6.89	208	0.1
2001	September	26	14	23.6	0.5	27.2	1.82	6.90	208	0.1
2001	September	26	14	23.6	1.0	27.2	1.78	6.90	208	0.1
2001	September	26	14	23.6	1.5	27.2	1.74	6.90	209	0.1
2001	September	26	14	23.6	2.0	27.2	1.69	6.89	209	0.1
2001	September	26	14	23.6	2.5	27.2	1.69	6.89	209	0.1
2001	September	26	14	23.6	3.0	27.2	1.66	6.89	209	0.1
2001	September	26	14	23.6	3.5	27.2	1.67	6.89	209	0.1

----- Month=September STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	15	25.9	0.2	27.1	2.07	6.88	206	0.1
2001	September	26	15	25.9	0.5	27.1	1.91	6.89	206	0.1
2001	September	26	15	25.9	1.0	27.1	1.86	6.89	206	0.1
2001	September	26	15	25.9	1.5	27.1	1.79	6.89	206	0.1

----- Month=September STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	17	29.5	0.2	27.1	2.12	6.91	210	0.1
2001	September	26	17	29.5	0.5	27.1	1.92	6.90	210	0.1
2001	September	26	17	29.5	1.0	27.1	1.82	6.91	210	0.1
2001	September	26	17	29.5	1.5	27.1	1.79	6.91	210	0.1
2001	September	26	17	29.5	2.0	27.1	1.79	6.91	210	0.1
2001	September	26	17	29.5	2.5	27.1	1.78	6.90	210	0.1
2001	September	26	17	29.5	3.0	27.1	1.77	6.90	207	0.1
2001	September	26	17	29.5	3.5	27.1	1.76	6.90	210	0.1
2001	September	26	17	29.5	4.0	27.1	1.69	6.88	206	0.1
2001	September	26	17	29.5	4.5	27.1	1.72	6.90	202	0.1

----- Month=September STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	18	30.4	0.2	27.0	1.98	6.90	209	0.1
2001	September	26	18	30.4	0.5	27.0	1.85	6.90	210	0.1
2001	September	26	18	30.4	1.0	27.0	1.75	6.89	206	0.1
2001	September	26	18	30.4	1.5	27.1	1.70	6.87	193	0.1
2001	September	26	18	30.4	2.0	27.1	1.62	6.84	194	0.1
2001	September	26	18	30.4	2.5	27.0	1.67	6.89	209	0.1
2001	September	26	18	30.4	3.0	27.0	1.68	6.88	211	0.1
2001	September	26	18	30.4	3.5	27.0	1.68	6.90	209	0.1
2001	September	26	18	30.4	4.0	27.0	1.69	6.90	211	0.1
2001	September	26	18	30.4	4.5	27.0	1.67	6.90	206	0.1
2001	September	26	18	30.4	5.0	27.0	1.66	6.89	207	0.1

----- Month=September STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	19	32.3	0.2	27.0	1.92	6.93	215	0.1
2001	September	26	19	32.3	0.5	27.0	1.87	6.93	216	0.1
2001	September	26	19	32.3	1.0	27.0	1.85	6.93	215	0.1
2001	September	26	19	32.3	1.5	27.0	1.87	6.93	215	0.1
2001	September	26	19	32.3	2.0	27.0	1.84	6.92	215	0.1
2001	September	26	19	32.3	2.5	27.0	1.80	6.93	215	0.1
2001	September	26	19	32.3	3.0	27.0	1.82	6.93	215	0.1
2001	September	26	19	32.3	3.5	27.0	1.78	6.93	215	0.1

----- Month=September STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	21	8.4	0.2	27.7	2.86	6.90	224	0.1
2001	September	26	21	8.4	0.5	27.5	2.66	6.91	223	0.1
2001	September	26	21	8.4	1.0	27.6	2.63	6.92	228	0.1
2001	September	26	21	8.4	1.5	27.5	2.68	6.93	231	0.1
2001	September	26	21	8.4	2.0	27.4	2.65	6.95	238	0.1

----- Month=September STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	22	12.8	0.2	27.9	2.39	6.90	204	0.1
2001	September	26	22	12.8	0.5	27.5	2.23	6.89	204	0.1
2001	September	26	22	12.8	1.0	27.3	2.00	6.88	204	0.1
2001	September	26	22	12.8	1.5	27.3	1.94	6.88	204	0.1
2001	September	26	22	12.8	2.0	27.2	1.89	6.88	205	0.1
2001	September	26	22	12.8	2.5	27.2	1.87	6.87	206	0.1
2001	September	26	22	12.8	3.0	27.2	1.87	6.87	206	0.1
2001	September	26	22	12.8	3.5	27.2	1.86	6.87	207	0.1

----- Month=September STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	23	17.5	0.2	27.3	2.23	6.89	205	0.1
2001	September	26	23	17.5	0.5	27.3	2.09	6.89	205	0.1
2001	September	26	23	17.5	1.0	27.3	2.00	6.89	205	0.1
2001	September	26	23	17.5	1.5	27.2	1.98	6.89	205	0.1
2001	September	26	23	17.5	2.0	27.2	1.95	6.89	205	0.1

----- Month=September STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	24	21.9	0.2	27.2	2.00	6.87	207	0.1
2001	September	26	24	21.9	0.5	27.2	1.89	6.87	207	0.1
2001	September	26	24	21.9	1.0	27.2	1.84	6.88	207	0.1
2001	September	26	24	21.9	1.5	27.2	1.81	6.88	207	0.1
2001	September	26	24	21.9	2.0	27.2	1.76	6.88	207	0.1

----- Month=September STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	25	24.7	0.2	27.2	2.01	6.90	205	0.1
2001	September	26	25	24.7	0.5	27.2	1.91	6.90	205	0.1
2001	September	26	25	24.7	1.0	27.2	1.87	6.90	205	0.1
2001	September	26	25	24.7	1.5	27.2	1.85	6.90	206	0.1
2001	September	26	25	24.7	2.0	27.2	1.83	6.90	206	0.1

----- Month=September STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	September	26	92	12.7	0.2	28.3	3.05	6.96	325	0.2
2001	September	26	92	12.7	0.5	28.5	3.38	7.03	351	0.2
2001	September	26	92	12.7	1.0	27.6	2.47	6.93	256	0.1
2001	September	26	92	12.7	1.5	27.5	2.36	6.92	249	0.1
2001	September	26	92	12.7	2.0	27.5	2.30	6.92	246	0.1
2001	September	26	92	12.7	2.5	27.5	2.23	6.91	239	0.1
2001	September	26	92	12.7	3.0	27.4	2.09	6.90	227	0.1
2001	September	26	92	12.7	3.5	27.4	2.07	6.89	226	0.1

----- Month=October STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	9	-2.4	0.2	26.6	6.39	7.73	31282	19.4
2001	October	25	9	-2.4	0.5	26.5	6.28	7.74	31306	19.5
2001	October	25	9	-2.4	1.0	26.5	6.24	7.74	31286	19.5
2001	October	25	9	-2.4	1.5	26.5	6.18	7.75	31452	19.6
2001	October	25	9	-2.4	2.0	26.6	6.23	7.76	32213	20.3
2001	October	25	9	-2.4	2.5	26.8	6.12	7.77	33727	21.2
2001	October	25	9	-2.4	3.0	25.6	3.12	7.48	36018	22.7
2001	October	25	9	-2.4	3.5	25.4	2.45	7.46	37778	24.1
2001	October	25	9	-2.4	4.0	25.3	2.37	7.46	38518	24.5

----- Month=October STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	10	6.6	0.2	27.3	6.89	7.80	23162	14.0
2001	October	25	10	6.6	0.5	27.2	6.65	7.80	24107	14.1
2001	October	25	10	6.6	1.0	27.2	5.92	7.68	24778	15.0
2001	October	25	10	6.6	1.5	27.1	5.61	7.64	25836	15.8
2001	October	25	10	6.6	2.0	27.2	5.41	7.62	27015	16.4
2001	October	25	10	6.6	2.5	27.2	5.18	7.61	28792	17.7
2001	October	25	10	6.6	3.0	27.0	4.45	7.53	29294	18.1
2001	October	25	10	6.6	3.5	26.9	3.91	7.46	29663	18.3

----- Month=October STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	11	10.5	0.2	27.5	6.99	7.64	13352	7.7
2001	October	25	11	10.5	0.5	27.5	6.94	7.66	13538	7.7
2001	October	25	11	10.5	1.0	27.5	5.55	7.64	19206	11.3
2001	October	25	11	10.5	1.5	27.5	5.86	7.64	22471	13.5
2001	October	25	11	10.5	2.0	27.5	5.61	7.64	23356	14.1
2001	October	25	11	10.5	2.5	27.5	5.39	7.64	23736	14.3
2001	October	25	11	10.5	3.0	27.4	5.36	7.64	23831	14.4
2001	October	25	11	10.5	3.5	27.4	5.20	7.64	24009	14.5

----- Month=October STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	12	15.5	0.2	28.3	6.52	7.38	4441	2.5
2001	October	25	12	15.5	0.5	28.2	6.40	7.37	4691	2.6
2001	October	25	12	15.5	1.0	27.9	6.20	7.35	5070	2.8
2001	October	25	12	15.5	1.5	27.6	5.81	7.29	6599	3.7
2001	October	25	12	15.5	2.0	27.4	5.53	7.25	7471	4.2
2001	October	25	12	15.5	2.5	27.4	5.39	7.26	8671	4.8
2001	October	25	12	15.5	3.0	27.4	5.50	7.28	8741	4.9
2001	October	25	12	15.5	3.5	27.5	5.45	7.29	9165	5.2

----- Month=October STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	13	20.1	0.2	27.9	5.27	7.21	628	0.3
2001	October	25	13	20.1	0.5	27.8	5.00	7.21	624	0.3
2001	October	25	13	20.1	1.0	27.5	4.84	7.21	603	0.3
2001	October	25	13	20.1	1.5	27.3	4.65	7.19	556	0.3
2001	October	25	13	20.1	2.0	27.1	4.58	7.19	554	0.3
2001	October	25	13	20.1	2.5	27.1	4.53	7.18	540	0.3
2001	October	25	13	20.1	3.0	27.1	4.47	7.18	537	0.3
2001	October	25	13	20.1	3.5	27.1	4.47	7.18	594	0.3

----- Month=October STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	14	23.6	0.2	27.1	5.07	7.15	474	0.2
2001	October	25	14	23.6	0.5	27.2	4.68	7.16	474	0.2
2001	October	25	14	23.6	1.0	26.9	4.50	7.15	475	0.2
2001	October	25	14	23.6	1.5	26.9	4.33	7.13	475	0.2
2001	October	25	14	23.6	2.0	26.6	4.30	7.13	476	0.2
2001	October	25	14	23.6	2.5	26.6	4.29	7.13	474	0.2
2001	October	25	14	23.6	3.0	26.5	4.26	7.13	475	0.2
2001	October	25	14	23.6	3.5	26.5	4.25	7.13	475	0.2

----- Month=October STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	15	25.9	0.2	26.9	4.91	7.19	457	0.2
2001	October	25	15	25.9	0.5	27.3	4.88	7.21	458	0.2
2001	October	25	15	25.9	1.0	26.6	4.78	7.19	457	0.2
2001	October	25	15	25.9	1.5	26.5	4.71	7.19	457	0.2

----- Month=October STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	17	29.5	0.2	27.5	5.59	7.31	451	0.2
2001	October	25	17	29.5	0.5	26.7	5.39	7.27	450	0.2
2001	October	25	17	29.5	1.0	26.6	5.33	7.26	450	0.2
2001	October	25	17	29.5	1.5	26.6	5.24	7.26	450	0.2
2001	October	25	17	29.5	2.0	26.6	5.25	7.26	450	0.2
2001	October	25	17	29.5	2.5	26.6	5.08	7.23	451	0.2
2001	October	25	17	29.5	3.0	26.7	5.03	7.22	451	0.2
2001	October	25	17	29.5	3.5	26.5	4.74	7.20	454	0.2
2001	October	25	17	29.5	4.0	26.5	4.66	7.19	454	0.2

----- Month=October STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	18	30.4	0.2	27.2	5.45	7.29	447	0.2
2001	October	25	18	30.4	0.5	26.9	5.37	7.27	447	0.2
2001	October	25	18	30.4	1.0	26.9	5.33	7.27	447	0.2
2001	October	25	18	30.4	1.5	26.8	5.34	7.26	446	0.2
2001	October	25	18	30.4	2.0	26.6	5.28	7.25	445	0.2
2001	October	25	18	30.4	2.5	26.5	5.25	7.25	446	0.2
2001	October	25	18	30.4	3.0	26.5	5.26	7.24	447	0.2
2001	October	25	18	30.4	3.5	26.5	5.22	7.24	446	0.2
2001	October	25	18	30.4	4.0	26.5	5.16	7.24	447	0.2

----- Month=October STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	19	32.3	0.2	26.8	5.54	7.28	442	0.2
2001	October	25	19	32.3	0.5	26.8	5.45	7.27	442	0.2
2001	October	25	19	32.3	1.0	26.8	5.31	7.27	442	0.2
2001	October	25	19	32.3	1.5	26.8	5.36	7.26	442	0.2
2001	October	25	19	32.3	2.0	26.8	5.34	7.26	442	0.2

----- Month=October STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	21	8.4	0.2	27.4	7.01	7.71	16854	10.4
2001	October	25	21	8.4	0.5	27.4	6.66	7.71	20192	11.7
2001	October	25	21	8.4	1.0	27.4	6.24	7.72	24249	14.5
2001	October	25	21	8.4	1.5	27.4	5.51	7.63	25432	15.5
2001	October	25	21	8.4	2.0	27.3	5.23	7.58	25560	15.6

----- Month=October STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	22	12.8	0.2	28.1	7.13	7.55	8410	4.7
2001	October	25	22	12.8	0.5	27.7	6.84	7.52	9367	5.3
2001	October	25	22	12.8	1.0	27.5	6.54	7.52	10863	6.1
2001	October	25	22	12.8	1.5	27.5	6.32	7.54	12117	6.9
2001	October	25	22	12.8	2.0	27.5	6.02	7.49	12798	7.4
2001	October	25	22	12.8	2.5	27.5	5.89	7.47	13985	8.1
2001	October	25	22	12.8	3.0	27.5	5.76	7.50	16412	9.5
2001	October	25	22	12.8	3.5	27.6	5.69	7.54	19240	11.4
2001	October	25	22	12.8	4.0	27.6	5.71	7.54	19286	11.4

----- Month=October STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	23	17.5	0.2	27.8	5.86	7.22	2471	1.3
2001	October	25	23	17.5	0.5	27.8	5.42	7.22	2355	1.3
2001	October	25	23	17.5	1.0	27.7	5.32	7.21	2322	1.2
2001	October	25	23	17.5	1.5	27.4	5.15	7.19	2773	1.5
2001	October	25	23	17.5	2.0	27.3	5.06	7.17	4162	2.3

----- Month=October STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	24	21.9	0.2	27.0	4.50	7.12	478	0.2
2001	October	25	24	21.9	0.5	27.0	4.42	7.13	478	0.2
2001	October	25	24	21.9	1.0	27.0	4.37	7.13	477	0.2
2001	October	25	24	21.9	1.5	27.0	4.38	7.13	479	0.2
2001	October	25	24	21.9	2.0	26.9	4.16	7.11	448	0.2
2001	October	25	24	21.9	2.5	26.8	4.09	7.11	478	0.2

----- Month=October STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	25	24.7	0.2	26.6	4.92	7.19	468	0.2
2001	October	25	25	24.7	0.5	26.7	4.86	7.20	470	0.2
2001	October	25	25	24.7	1.0	26.9	4.87	7.20	468	0.2
2001	October	25	25	24.7	1.5	26.6	4.85	7.19	469	0.2
2001	October	25	25	24.7	2.0	26.5	4.80	7.19	468	0.2
2001	October	25	25	24.7	2.5	26.4	4.79	7.19	467	0.2

----- Month=October STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	October	25	92	12.7	0.2	27.6	6.43	7.39	8625	4.8
2001	October	25	92	12.7	0.5	27.5	6.11	7.38	9807	5.6
2001	October	25	92	12.7	1.0	27.5	6.00	7.40	11258	6.4
2001	October	25	92	12.7	1.5	27.5	5.82	7.43	13589	7.7
2001	October	25	92	12.7	2.0	27.6	5.69	7.50	16877	10.0
2001	October	25	92	12.7	2.5	27.6	5.78	7.55	18888	11.2
2001	October	25	92	12.7	3.0	27.6	5.80	7.56	19201	11.4
2001	October	25	92	12.7	3.5	27.6	5.68	7.56	19796	11.8

----- Month=November STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	9	-2.4	0.2	23.0	5.81	7.77	43626	28.2
2001	November	26	9	-2.4	0.5	22.9	5.72	7.78	43645	28.2
2001	November	26	9	-2.4	1.0	22.9	5.66	7.78	43630	28.2
2001	November	26	9	-2.4	1.5	22.8	5.62	7.78	43652	28.1
2001	November	26	9	-2.4	2.0	22.8	5.57	7.78	43650	28.2
2001	November	26	9	-2.4	2.5	22.7	5.55	7.78	43718	28.2
2001	November	26	9	-2.4	3.0	22.6	5.65	7.80	44152	28.7
2001	November	26	9	-2.4	3.5	22.7	4.56	7.72	45707	29.7
2001	November	26	9	-2.4	4.0	22.7	4.09	7.69	46184	30.0

----- Month=November STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	10	6.6	0.2	23.6	5.14	7.57	39303	25.1
2001	November	26	10	6.6	0.5	23.5	5.05	7.57	39365	25.0
2001	November	26	10	6.6	1.0	23.5	5.05	7.59	39567	25.3
2001	November	26	10	6.6	1.5	23.3	4.82	7.57	39703	25.4
2001	November	26	10	6.6	2.0	23.2	3.86	7.51	42611	27.4
2001	November	26	10	6.6	2.5	23.2	3.70	7.51	42690	27.5

----- Month=November STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	11	10.5	0.2	24.2	5.21	7.49	32352	20.2
2001	November	26	11	10.5	0.5	24.0	4.95	7.46	33217	20.8
2001	November	26	11	10.5	1.0	23.6	4.22	7.41	35983	22.8
2001	November	26	11	10.5	1.5	23.5	4.09	7.41	36342	23.0
2001	November	26	11	10.5	2.0	23.4	3.84	7.39	36559	23.1
2001	November	26	11	10.5	2.5	23.4	3.76	7.39	36619	23.2
2001	November	26	11	10.5	3.0	23.3	3.75	7.39	36755	23.3

----- Month=November STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	12	15.5	0.2	24.3	4.98	7.34	22135	13.3
2001	November	26	12	15.5	0.5	24.3	4.85	7.34	22158	13.3
2001	November	26	12	15.5	1.0	24.3	4.82	7.34	22226	13.3
2001	November	26	12	15.5	1.5	24.3	4.80	7.34	22244	13.4
2001	November	26	12	15.5	2.0	24.0	4.28	7.27	23340	13.9
2001	November	26	12	15.5	2.5	23.9	4.03	7.24	23689	14.3

----- Month=November STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	13	20.1	0.2	25.4	5.32	7.33	11651	6.7
2001	November	26	13	20.1	0.5	25.4	5.24	7.33	11579	6.6
2001	November	26	13	20.1	1.0	24.2	4.39	7.22	15332	8.9
2001	November	26	13	20.1	1.5	24.0	4.07	7.17	15737	9.2
2001	November	26	13	20.1	2.0	24.0	3.97	7.16	15902	9.3
2001	November	26	13	20.1	2.5	23.9	3.96	7.15	16004	9.4
2001	November	26	13	20.1	3.0	23.9	3.91	7.17	16134	9.4
2001	November	26	13	20.1	3.5	23.9	3.90	7.15	16209	9.4
2001	November	26	13	20.1	4.0	23.9	3.86	7.16	16123	9.4
2001	November	26	13	20.1	4.5	23.9	3.83	7.15	16132	9.4

----- Month=November STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	14	23.6	0.2	23.8	5.80	7.40	2074	1.1
2001	November	26	14	23.6	0.5	23.7	5.63	7.38	2355	1.3
2001	November	26	14	23.6	1.0	23.7	5.52	7.37	2494	1.4
2001	November	26	14	23.6	1.5	23.6	5.43	7.36	2553	1.4
2001	November	26	14	23.6	2.0	23.6	5.37	7.36	2584	1.4
2001	November	26	14	23.6	2.5	23.6	5.37	7.35	2626	1.4
2001	November	26	14	23.6	3.0	23.6	5.31	7.35	2822	1.5
2001	November	26	14	23.6	3.5	23.7	5.32	7.35	2828	1.5

----- Month=November STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	15	25.9	0.2	23.7	6.23	7.58	622	0.3
2001	November	26	15	25.9	0.5	23.7	6.12	7.58	624	0.3
2001	November	26	15	25.9	1.0	23.6	6.08	7.57	625	0.3

----- Month=November STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	17	29.5	0.2	23.2	6.05	7.57	578	0.3
2001	November	26	17	29.5	0.5	23.4	6.06	7.58	578	0.3
2001	November	26	17	29.5	1.0	23.2	5.99	7.57	578	0.3
2001	November	26	17	29.5	1.5	23.2	5.93	7.57	577	0.3
2001	November	26	17	29.5	2.0	23.2	5.89	7.56	578	0.3
2001	November	26	17	29.5	2.5	23.2	5.91	7.56	578	0.3
2001	November	26	17	29.5	3.0	23.2	5.82	7.56	578	0.3
2001	November	26	17	29.5	3.5	23.1	5.80	7.55	578	0.3
2001	November	26	17	29.5	4.0	23.0	5.66	7.53	577	0.3
2001	November	26	17	29.5	4.5	22.9	5.55	7.54	578	0.3

----- Month=November STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	18	30.4	0.2	24.0	6.19	7.63	578	0.3
2001	November	26	18	30.4	0.5	23.9	6.10	7.62	578	0.3
2001	November	26	18	30.4	1.0	23.6	6.00	7.61	578	0.3
2001	November	26	18	30.4	1.5	23.6	5.95	7.61	578	0.3
2001	November	26	18	30.4	2.0	23.5	5.93	7.60	578	0.3
2001	November	26	18	30.4	2.5	23.2	5.72	7.56	577	0.3
2001	November	26	18	30.4	3.0	23.0	5.68	7.56	577	0.3
2001	November	26	18	30.4	3.5	23.0	5.64	7.55	577	0.3

----- Month=November STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	19	32.3	0.2	22.9	6.07	7.58	576	0.3
2001	November	26	19	32.3	0.5	22.9	5.86	7.58	575	0.3
2001	November	26	19	32.3	1.0	22.9	5.91	7.58	575	0.3
2001	November	26	19	32.3	1.5	22.9	5.74	7.59	576	0.3
2001	November	26	19	32.3	2.0	23.0	5.83	7.59	576	0.3
2001	November	26	19	32.3	2.5	23.0	5.70	7.59	576	0.3
2001	November	26	19	32.3	3.0	23.0	5.69	7.59	576	0.3

----- Month=November STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	21	8.4	0.2	23.7	4.54	7.53	39869	25.5
2001	November	26	21	8.4	0.5	23.7	4.52	7.51	39852	25.4
2001	November	26	21	8.4	1.0	23.6	4.44	7.52	40133	25.7
2001	November	26	21	8.4	1.5	23.3	4.04	7.51	40886	26.2
2001	November	26	21	8.4	2.0	23.2	3.91	7.50	40923	26.3

----- Month=November STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	22	12.8	0.2	24.1	4.60	7.35	27744	17.0
2001	November	26	22	12.8	0.5	24.1	4.62	7.36	27627	16.9
2001	November	26	22	12.8	1.0	23.9	4.40	7.34	28254	17.3
2001	November	26	22	12.8	1.5	23.9	4.40	7.35	29279	18.1
2001	November	26	22	12.8	2.0	23.9	4.18	7.36	31214	19.5
2001	November	26	22	12.8	2.5	23.9	4.24	7.36	32461	20.2
2001	November	26	22	12.8	3.0	23.8	4.08	7.37	33379	20.9
2001	November	26	22	12.8	3.5	23.8	3.98	7.36	33589	21.0

----- Month=November STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	23	17.5	0.2	24.7	4.86	7.26	17462	10.3
2001	November	26	23	17.5	0.5	24.6	4.72	7.25	17702	10.4
2001	November	26	23	17.5	1.0	24.5	4.55	7.25	18430	10.9
2001	November	26	23	17.5	1.5	24.0	3.83	7.18	20685	12.3

----- Month=November STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	24	21.9	0.2	24.0	5.41	7.31	4935	2.7
2001	November	26	24	21.9	0.5	24.0	5.40	7.31	4868	2.7
2001	November	26	24	21.9	1.0	24.0	5.33	7.31	4852	2.7
2001	November	26	24	21.9	1.5	24.0	5.05	7.27	6682	3.7
2001	November	26	24	21.9	2.0	24.2	4.98	7.26	7559	4.2
2001	November	26	24	21.9	2.5	24.1	4.99	7.25	7662	4.3
2001	November	26	24	21.9	3.0	24.1	4.90	7.24	7851	4.4

----- Month=November STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	25	24.7	0.2	24.0	6.27	7.51	875	0.5
2001	November	26	25	24.7	0.5	23.8	5.98	7.50	903	0.5
2001	November	26	25	24.7	1.0	23.6	5.96	7.50	877	0.5
2001	November	26	25	24.7	1.5	23.7	5.93	7.51	836	0.4
2001	November	26	25	24.7	2.0	23.6	5.92	7.51	837	0.4
2001	November	26	25	24.7	2.5	23.6	5.88	7.50	851	0.4
2001	November	26	25	24.7	3.0	23.6	5.77	7.50	855	0.4

----- Month=November STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	November	26	92	12.7	0.2	24.0	4.95	7.37	26492	16.2
2001	November	26	92	12.7	0.5	23.8	4.81	7.38	28402	17.4
2001	November	26	92	12.7	1.0	23.8	4.65	7.36	28389	17.9
2001	November	26	92	12.7	1.5	23.6	4.33	7.36	29384	18.2
2001	November	26	92	12.7	2.0	23.5	4.13	7.33	29510	18.2
2001	November	26	92	12.7	2.5	23.6	4.15	7.33	29665	18.3
2001	November	26	92	12.7	3.0	23.5	4.09	7.32	29804	18.4
2001	November	26	92	12.7	3.5	23.5	4.03	7.32	29812	18.4

----- Month=December STATION=9 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	9	-2.4	0.2	18.4	6.77	7.65	46031	29.9
2001	December	26	9	-2.4	0.5	18.4	6.69	7.67	46031	29.9
2001	December	26	9	-2.4	1.0	18.4	6.54	7.70	46014	29.9
2001	December	26	9	-2.4	1.5	18.4	6.39	7.70	46022	29.9
2001	December	26	9	-2.4	2.0	18.4	6.46	7.70	46015	29.9
2001	December	26	9	-2.4	2.5	18.4	6.46	7.70	45986	29.9
2001	December	26	9	-2.4	3.0	18.4	6.51	7.70	45986	29.9
2001	December	26	9	-2.4	3.5	18.4	6.44	7.70	45975	29.9

----- Month=December STATION=10 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	10	6.6	0.2	17.6	6.95	7.62	38916	24.8
2001	December	26	10	6.6	0.5	17.5	6.77	7.62	38825	24.7
2001	December	26	10	6.6	1.0	17.5	6.73	7.62	39087	24.8
2001	December	26	10	6.6	1.5	17.7	6.61	7.64	40377	25.8
2001	December	26	10	6.6	2.0	17.7	6.61	7.64	40379	25.9
2001	December	26	10	6.6	2.5	17.7	6.59	7.64	40406	25.9

----- Month=December STATION=11 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	11	10.5	0.2	17.0	7.38	7.51	28059	17.3
2001	December	26	11	10.5	0.5	17.1	7.28	7.53	27998	17.2
2001	December	26	11	10.5	1.0	17.1	7.19	7.54	27893	17.1
2001	December	26	11	10.5	1.5	17.1	7.13	7.55	28079	17.3
2001	December	26	11	10.5	2.0	17.1	7.21	7.55	28078	17.2

----- Month=December STATION=12 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	12	15.5	0.2	18.0	7.31	7.45	20057	11.9
2001	December	26	12	15.5	0.5	18.1	7.07	7.48	20105	11.9
2001	December	26	12	15.5	1.0	18.1	7.07	7.49	20058	11.9
2001	December	26	12	15.5	1.5	18.0	7.05	7.49	20049	11.9
2001	December	26	12	15.5	2.0	18.1	6.97	7.49	20749	12.3
2001	December	26	12	15.5	2.5	18.2	6.90	7.49	21602	12.9
2001	December	26	12	15.5	3.0	18.4	6.38	7.43	23011	13.9

----- Month=December STATION=13 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	13	20.1	0.2	18.1	7.82	7.48	12170	7.0
2001	December	26	13	20.1	0.5	18.3	7.27	7.46	13864	7.8
2001	December	26	13	20.1	1.0	18.7	6.29	7.33	17036	9.8
2001	December	26	13	20.1	1.5	18.7	5.94	7.32	19000	11.3
2001	December	26	13	20.1	2.0	18.6	6.01	7.34	19514	11.6
2001	December	26	13	20.1	2.5	18.6	5.98	7.34	19470	11.5
2001	December	26	13	20.1	3.0	18.6	6.01	7.34	19540	11.6
2001	December	26	13	20.1	3.5	18.6	6.01	7.35	19531	11.6

----- Month=December STATION=14 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	14	23.6	0.2	18.0	8.02	7.61	2239	1.2
2001	December	26	14	23.6	0.5	18.0	7.78	7.62	2313	1.2
2001	December	26	14	23.6	1.0	18.0	7.77	7.63	2300	1.2
2001	December	26	14	23.6	1.5	18.0	7.29	7.54	2726	1.5
2001	December	26	14	23.6	2.0	17.9	7.27	7.51	2767	1.6
2001	December	26	14	23.6	2.5	17.9	7.26	7.52	3007	1.6
2001	December	26	14	23.6	3.0	17.9	7.18	7.52	3080	1.7

----- Month=December STATION=15 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	15	25.9	0.2	17.8	8.56	7.88	739	0.4
2001	December	26	15	25.9	0.5	17.8	8.45	7.90	741	0.4
2001	December	26	15	25.9	1.0	17.8	8.50	7.90	741	0.4

----- Month=December STATION=17 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	17	29.5	0.2	17.5	8.35	7.77	645	0.3
2001	December	26	17	29.5	0.5	17.7	8.17	7.77	645	0.3
2001	December	26	17	29.5	1.0	17.7	8.07	7.78	645	0.3
2001	December	26	17	29.5	1.5	17.7	8.00	7.77	645	0.3
2001	December	26	17	29.5	2.0	17.7	7.94	7.77	645	0.3

----- Month=December STATION=18 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	18	30.4	0.2	17.8	8.56	7.83	645	0.3
2001	December	26	18	30.4	0.5	17.9	8.42	7.83	646	0.3
2001	December	26	18	30.4	1.0	17.7	8.23	7.82	646	0.3
2001	December	26	18	30.4	1.5	17.7	8.16	7.82	646	0.3
2001	December	26	18	30.4	2.0	17.6	8.12	7.82	645	0.3
2001	December	26	18	30.4	2.5	17.5	7.91	7.80	645	0.3
2001	December	26	18	30.4	3.0	17.4	7.70	7.77	645	0.3
2001	December	26	18	30.4	3.5	17.4	7.69	7.77	645	0.3

----- Month=December STATION=19 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	19	32.3	0.2	16.9	8.54	7.72	649	0.3
2001	December	26	19	32.3	0.5	17.0	8.25	7.72	650	0.3
2001	December	26	19	32.3	1.0	17.0	8.03	7.72	650	0.3
2001	December	26	19	32.3	1.5	16.9	7.92	7.33	650	0.3
2001	December	26	19	32.3	2.0	16.9	7.90	7.33	650	0.3

----- Month=December STATION=21 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	21	8.4	0.2	17.1	7.32	7.55	34251	21.5
2001	December	26	21	8.4	0.5	17.2	7.24	7.57	34216	21.4
2001	December	26	21	8.4	1.0	17.2	6.95	7.58	34587	21.8
2001	December	26	21	8.4	1.5	17.3	6.79	7.58	34777	22.0

----- Month=December STATION=22 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	22	12.8	0.2	17.2	7.19	7.45	24503	14.8
2001	December	26	22	12.8	0.5	17.5	6.98	7.47	24488	14.8
2001	December	26	22	12.8	1.0	17.5	6.95	7.48	24480	14.8
2001	December	26	22	12.8	1.5	17.5	6.90	7.49	24480	14.8
2001	December	26	22	12.8	2.0	17.4	6.90	7.49	24594	14.9
2001	December	26	22	12.8	2.5	17.4	7.00	7.51	24767	15.0
2001	December	26	22	12.8	3.0	17.3	6.97	7.50	25112	15.3
2001	December	26	22	12.8	3.5	17.2	6.95	7.50	25139	15.3

----- Month=December STATION=23 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	23	17.5	0.2	18.1	7.46	7.42	17769	10.4
2001	December	26	23	17.5	0.5	18.1	7.33	7.45	17635	10.4
2001	December	26	23	17.5	1.0	18.1	7.17	7.45	17671	10.5
2001	December	26	23	17.5	1.5	18.4	6.37	7.38	20758	12.5

----- Month=December STATION=24 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	24	21.9	0.2	18.3	7.62	7.45	5169	2.8
2001	December	26	24	21.9	0.5	18.4	7.45	7.46	5117	2.8
2001	December	26	24	21.9	1.0	18.4	7.09	7.42	6333	3.5
2001	December	26	24	21.9	1.5	18.5	7.02	7.41	6492	3.6
2001	December	26	24	21.9	2.0	18.3	6.92	7.41	7914	4.2

----- Month=December STATION=25 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	25	24.7	0.2	18.1	9.05	7.82	1204	0.6
2001	December	26	25	24.7	0.5	18.1	8.60	7.77	1246	0.7
2001	December	26	25	24.7	1.0	18.1	8.33	7.76	1382	0.7
2001	December	26	25	24.7	1.5	17.9	8.07	7.73	1390	0.7
2001	December	26	25	24.7	2.0	18.0	8.04	7.70	1453	0.8
2001	December	26	25	24.7	2.5	18.0	7.86	7.68	1693	0.9

----- Month=December STATION=92 -----

Year	Month	Day	STATION	River Kilometer of Site Location	Sampling Depth (m)	Temperature (C)	Dissolved Oxygen (mg/L)	pH Water Whole Field (std.units)	Specific Conductance (us/cm)	Salinity (ppt)
2001	December	26	92	12.7	0.2	17.3	7.23	7.43	23752	14.4
2001	December	26	92	12.7	0.5	17.4	7.08	7.45	23734	14.3
2001	December	26	92	12.7	1.0	17.4	6.99	7.47	23735	14.3
2001	December	26	92	12.7	1.5	17.4	6.86	7.47	23842	14.4
2001	December	26	92	12.7	2.0	17.4	6.87	7.48	23970	14.5
2001	December	26	92	12.7	2.5	17.5	6.76	7.47	24196	14.7
2001	December	26	92	12.7	3.0	17.5	6.73	7.48	25062	15.2
2001	December	26	92	12.7	3.5	17.4	6.80	7.48	25700	16.7



Back to Start

APPENDIX F

Complete Analysis of Light Profiles “Fixed” Sampling Stations

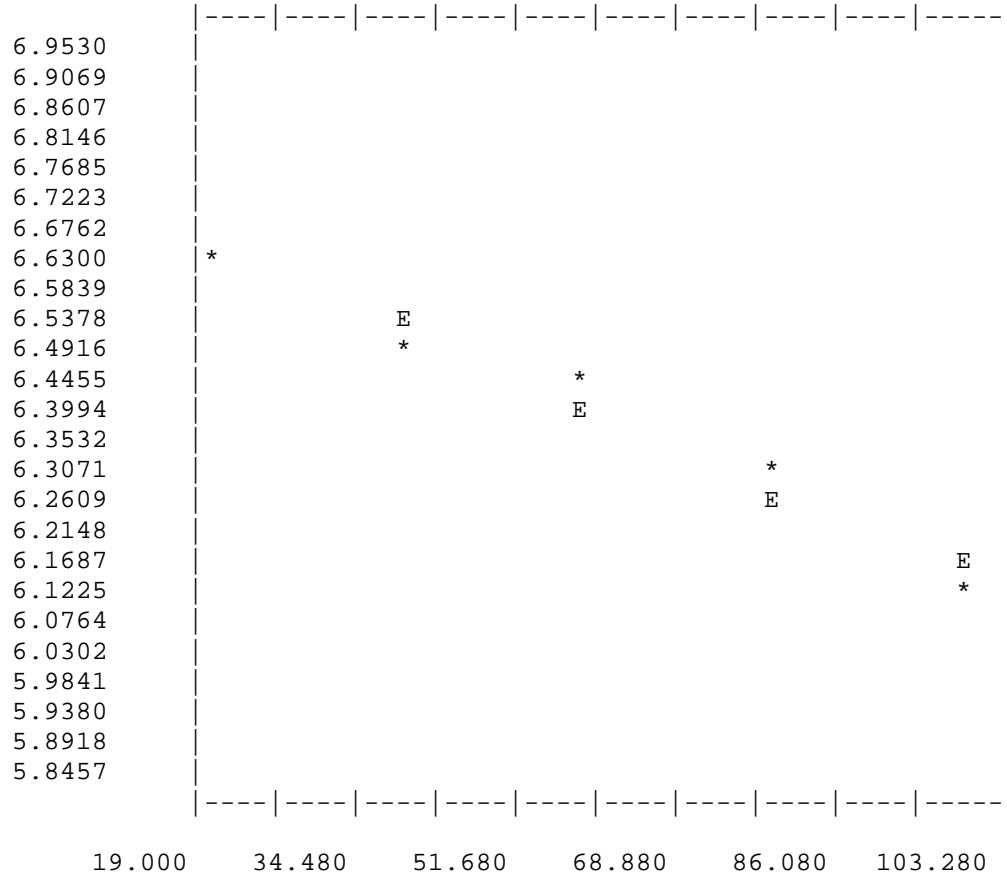
Note: No data for April Station #18

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.74494	-0.00615	0.98461	0.96945
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	749.	6.62007	6.62192
2	40.	640.	6.46303	6.49890
3	60.	618.	6.42811	6.37588
4	80.	524.	6.26340	6.25286
5	100.	447.	6.10479	6.12984



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.46

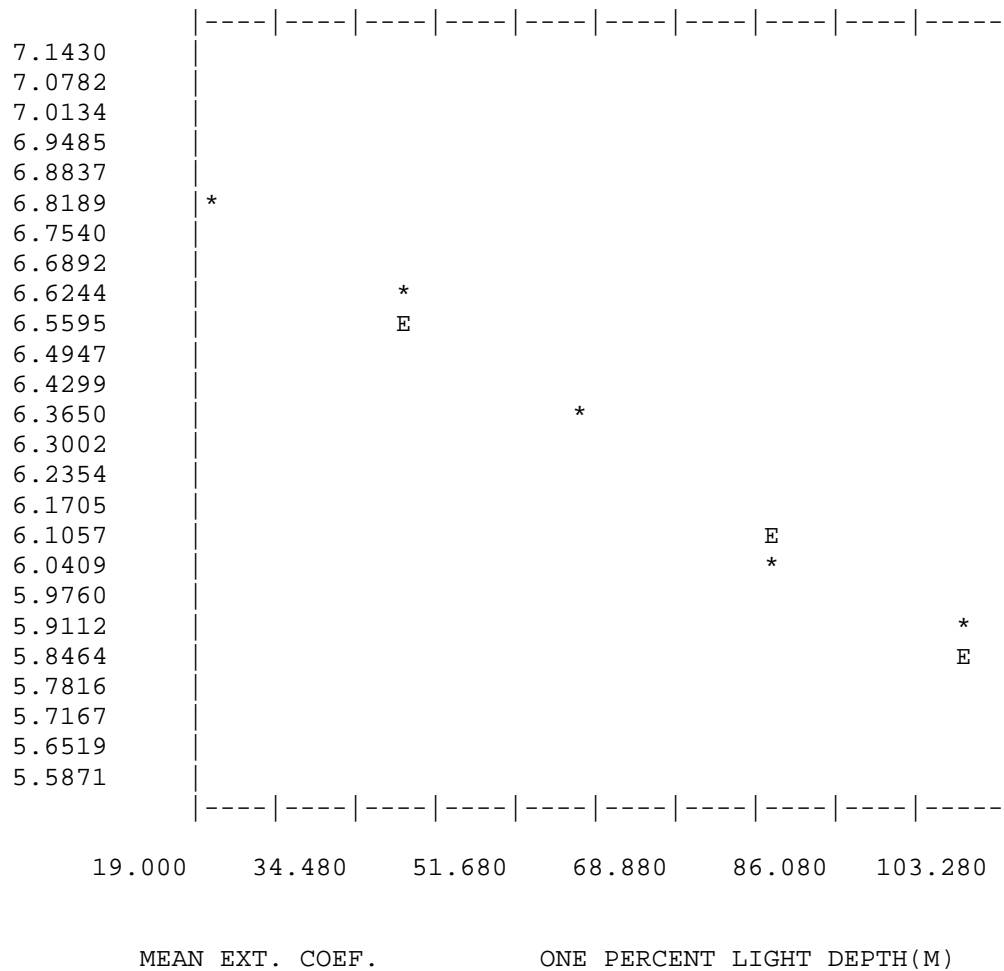
9.98

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.05039	-0.01238	0.99388	0.98779
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	892.	6.79459	6.80288
2	40.	719.	6.57925	6.55538
3	60.	557.	6.32436	6.30787
4	80.	398.	5.98896	6.06037
5	100.	347.	5.85220	5.81286



0.93

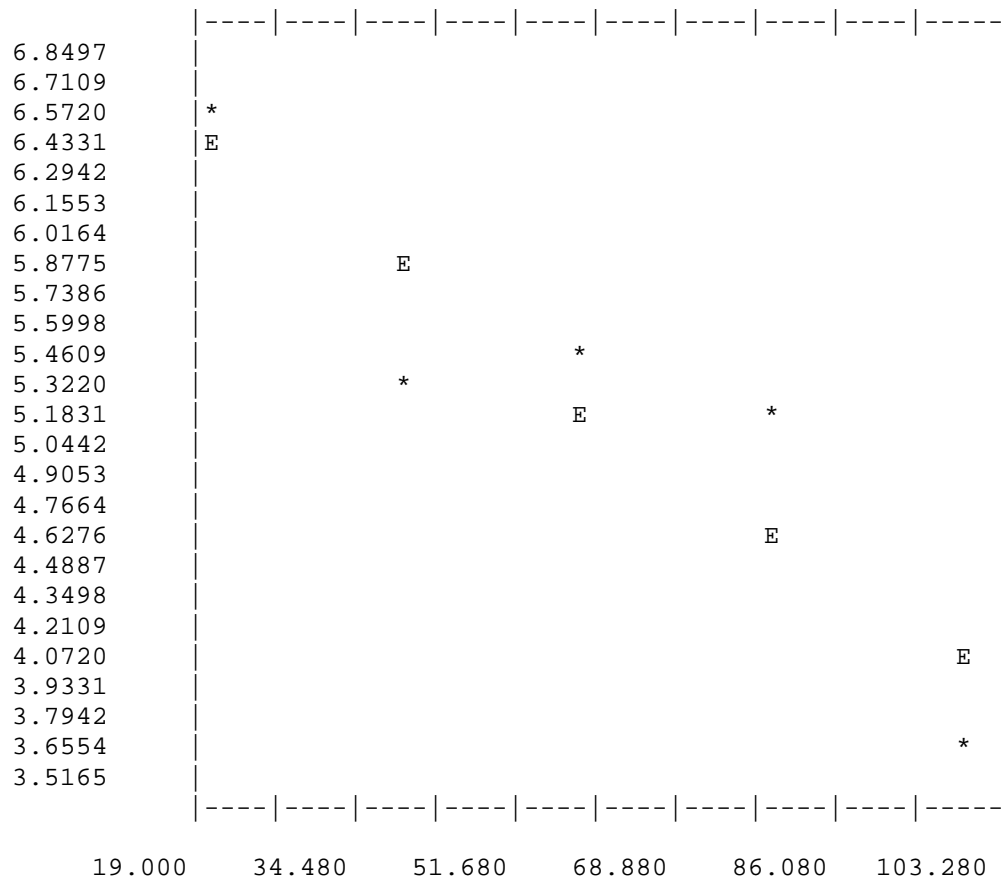
4.96

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.99382	-0.03053	0.90638	0.82152
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	680.	6.52356	6.38313
2	40.	184.	5.22036	5.77243
3	60.	234.	5.45959	5.16174
4	80.	155.	5.04986	4.55105
5	100.	34.	3.55535	3.94036



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.29

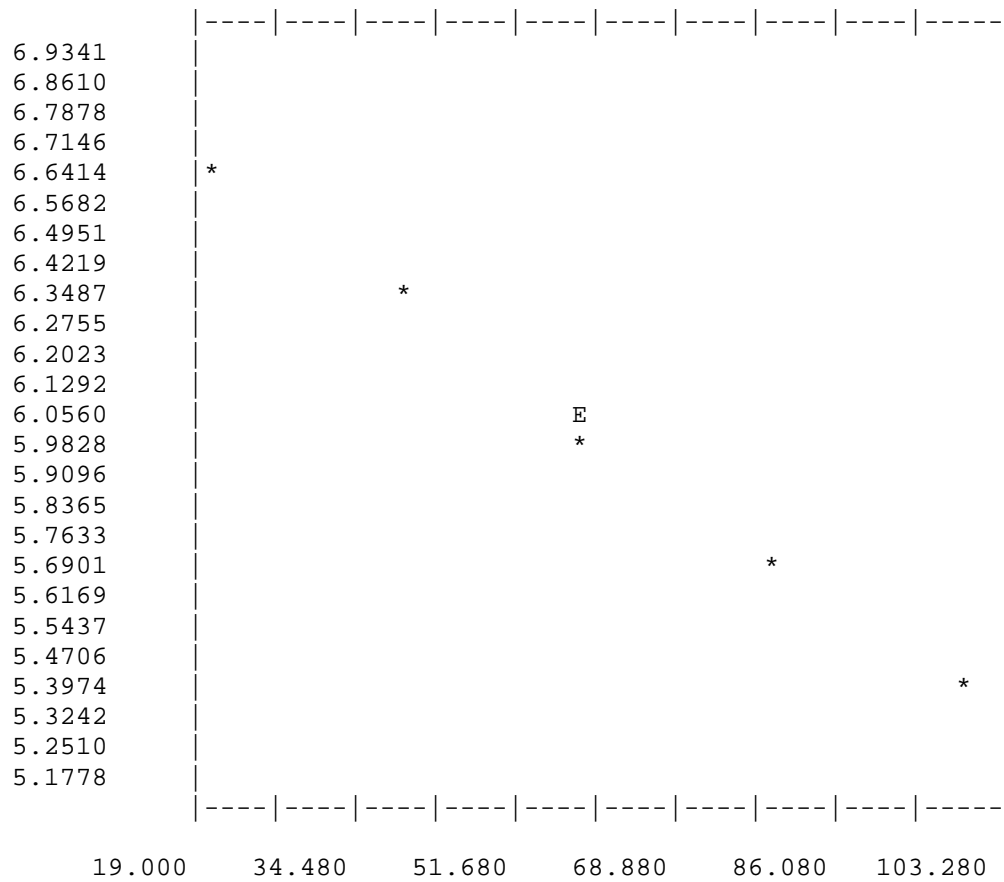
2.01

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.91003	-0.01537	0.99932	0.99864
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	737.	6.60394	6.60269
2	40.	551.	6.31355	6.29535
3	60.	388.	5.96358	5.98801
4	80.	289.	5.66988	5.68066
5	100.	218.	5.38907	5.37332



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.15

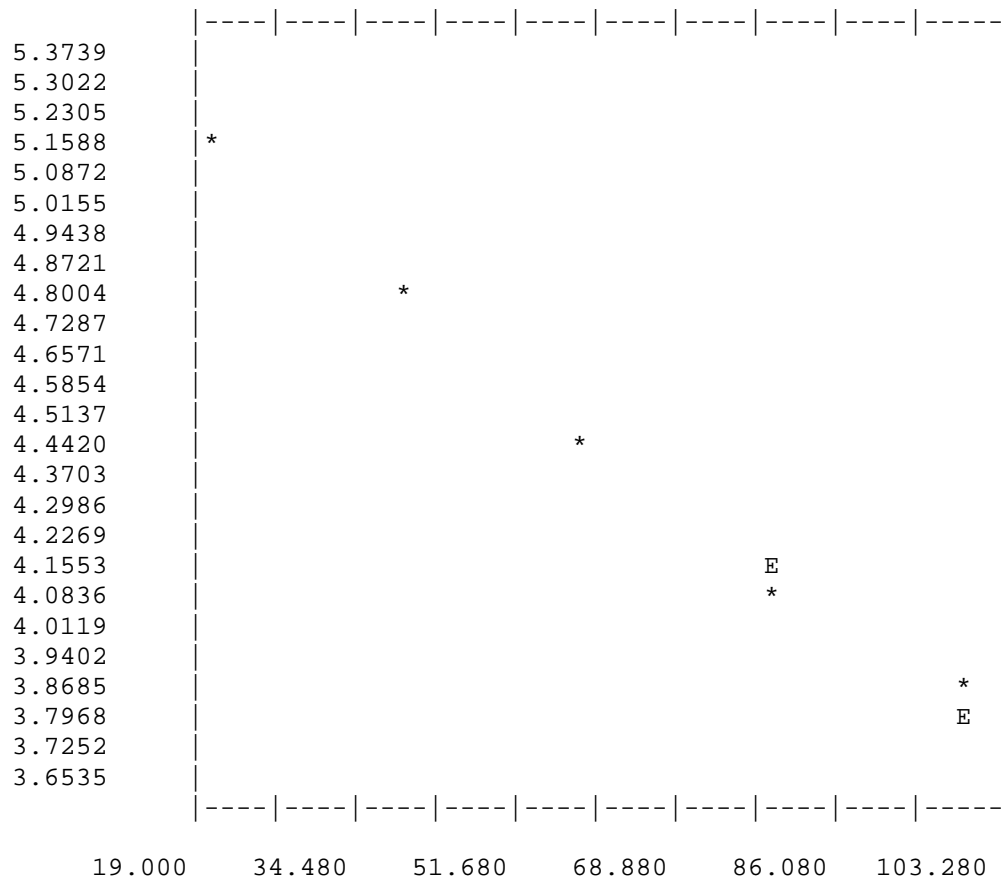
4.00

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.42821	-0.01658	0.99822	0.99644
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	166.	5.11799	5.09663
2	40.	117.	4.77068	4.76505
3	60.	80.	4.39445	4.43347
4	80.	58.	4.07754	4.10188
5	100.	44.	3.80666	3.77030



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.24

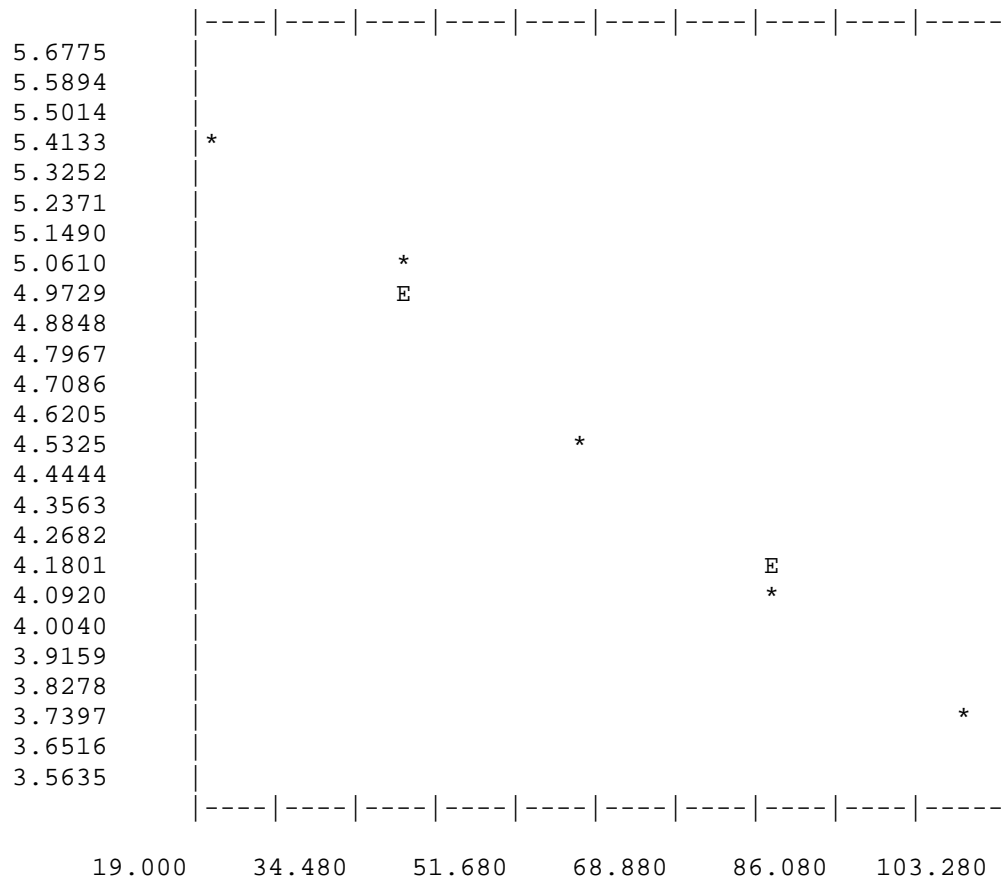
3.70

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.83311	-0.02175	0.99878	0.99757
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	222.	5.40717	5.39817
2	40.	146.	4.99043	4.96322
3	60.	87.	4.47734	4.52827
4	80.	58.	4.07754	4.09332
5	100.	39.	3.68888	3.65838



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.63

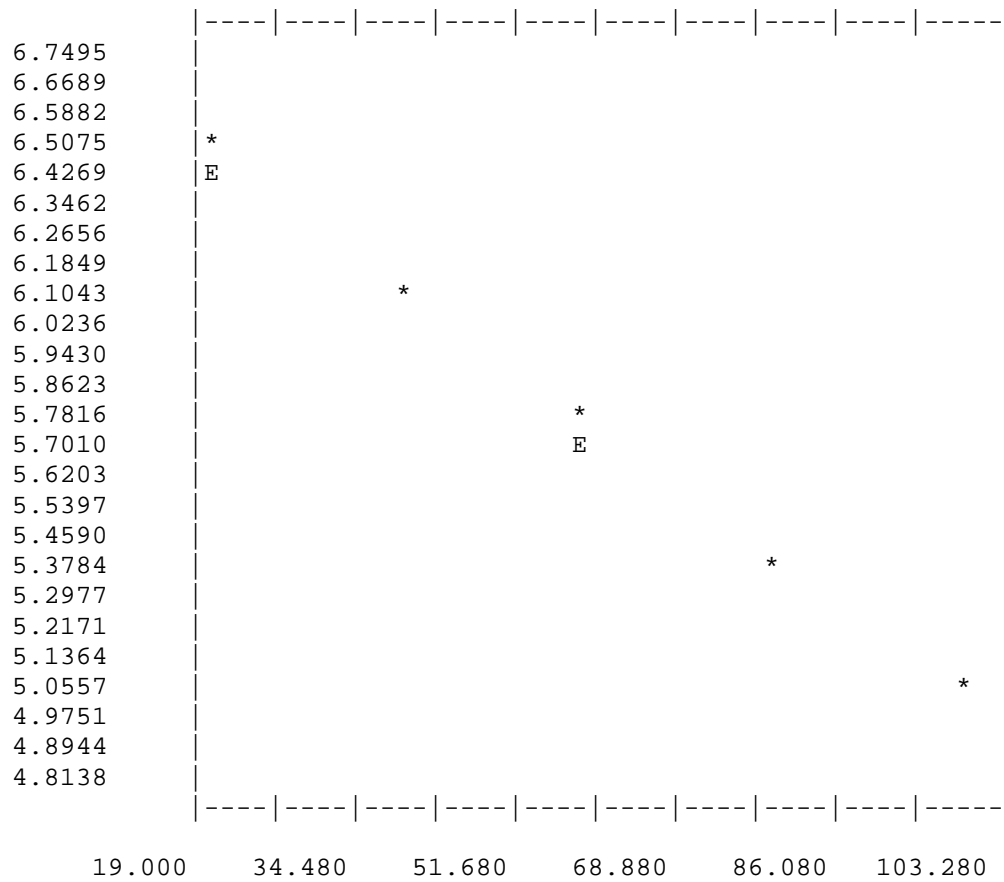
2.82

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.77211	-0.01790	0.99970	0.99940
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	618.	6.42811	6.41413
2	40.	416.	6.03309	6.05616
3	60.	299.	5.70378	5.69818
4	80.	208.	5.34233	5.34021
5	100.	145.	4.98361	4.98223



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.34

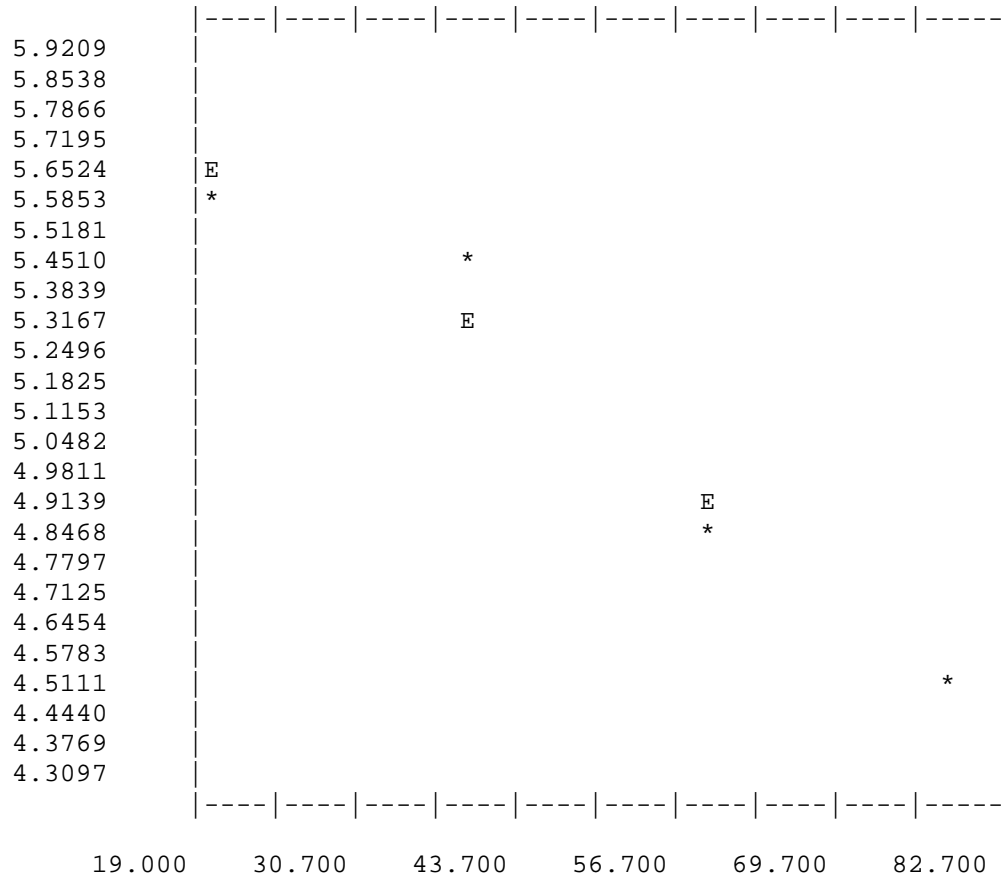
3.43

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.02639	-0.01937	0.97349	0.94769
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	256.	5.54908	5.63897
2	40.	225.	5.42054	5.25154
3	60.	120.	4.79579	4.86412
4	80.	86.	4.46591	4.47669



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.45

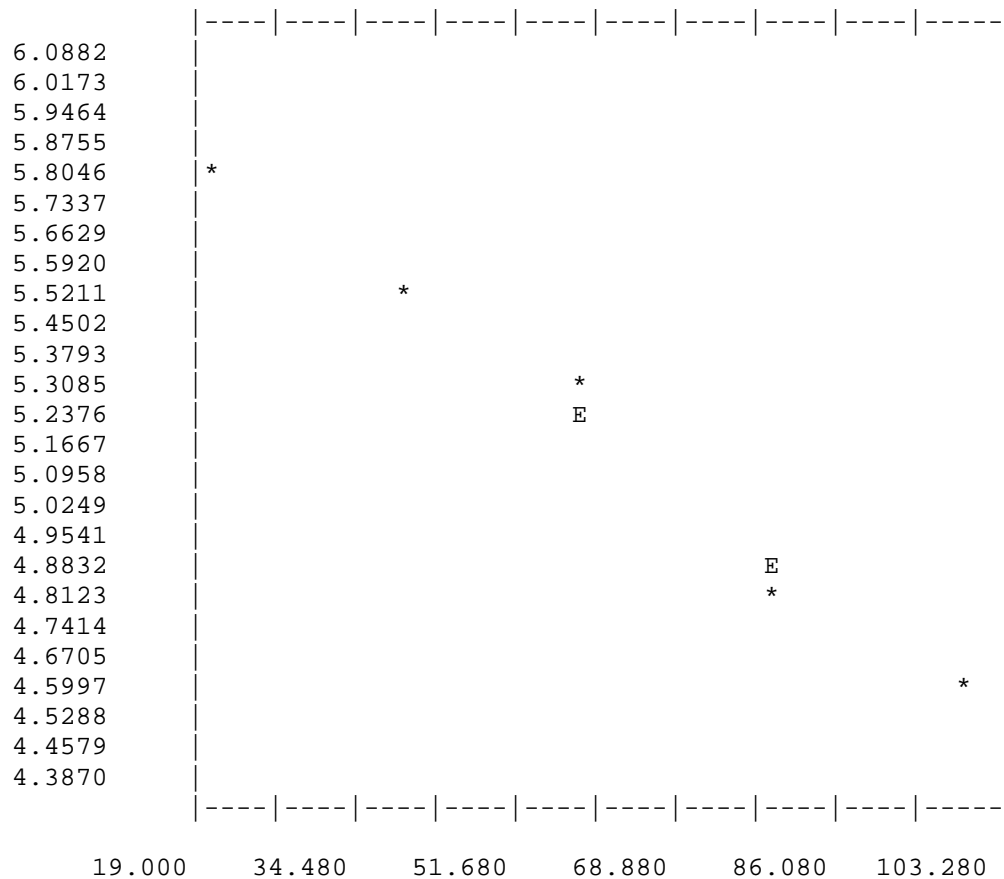
3.17

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.11013	-0.01559	0.98848	0.97710
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	310.	5.73979	5.79824
2	40.	247.	5.51343	5.48635
3	60.	197.	5.28827	5.17446
4	80.	119.	4.78749	4.86256
5	100.	93.	4.54329	4.55067



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.17

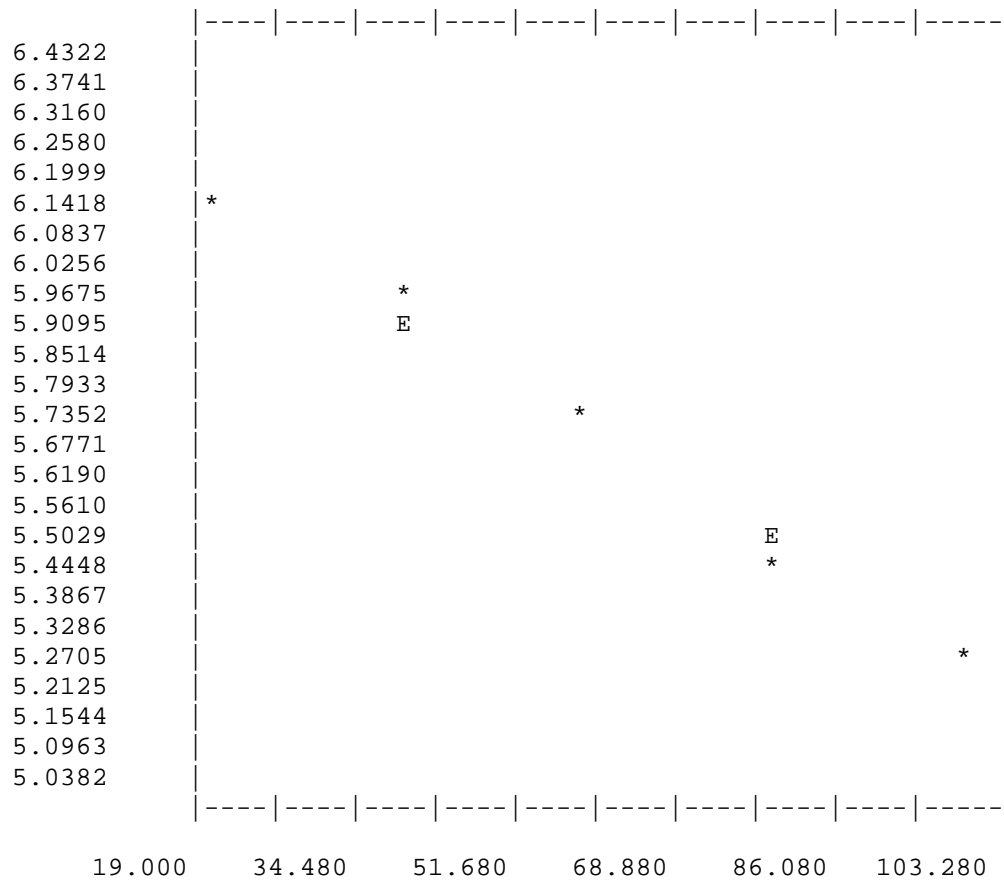
3.94

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.34683	-0.01105	0.99819	0.99639
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	455.	6.12249	6.12591
2	40.	371.	5.91889	5.90500
3	60.	294.	5.68698	5.68408
4	80.	227.	5.42935	5.46316
5	100.	192.	5.26269	5.24225



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.83

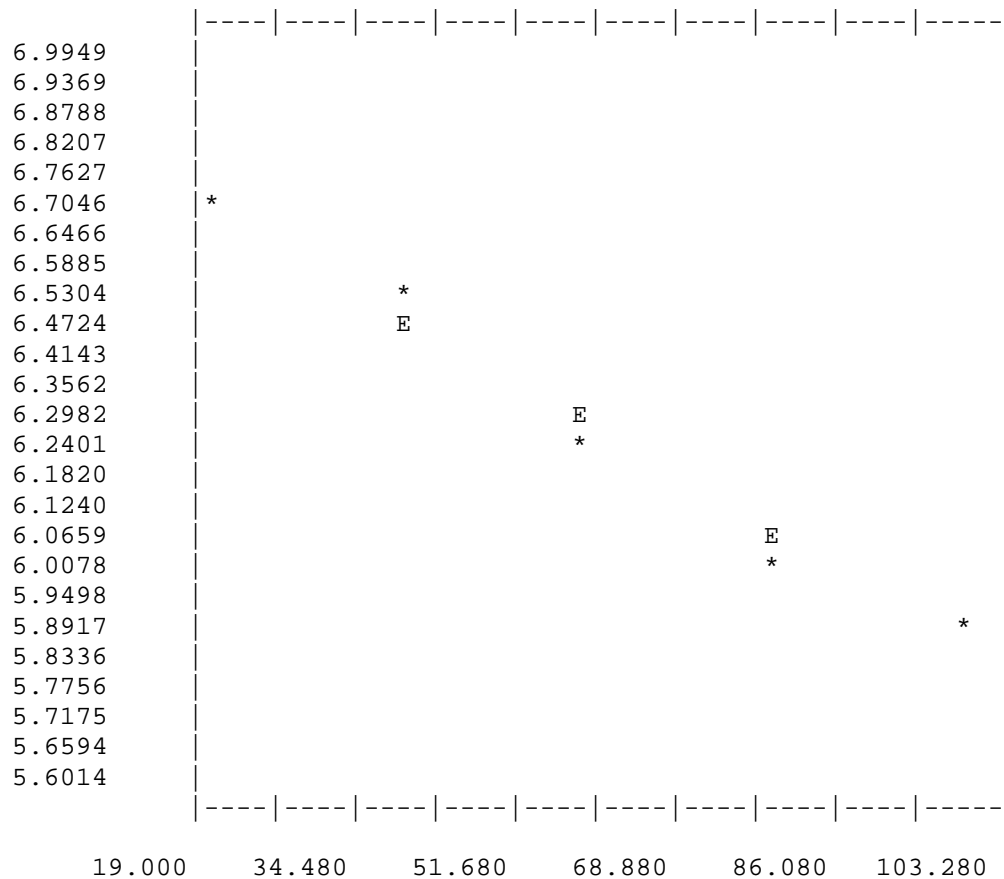
5.56

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.86767	-0.01033	0.99239	0.98483
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	781.	6.66185	6.66115
2	40.	661.	6.49527	6.45462
3	60.	494.	6.20456	6.24810
4	80.	404.	6.00389	6.04158
5	100.	355.	5.87493	5.83505



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.77

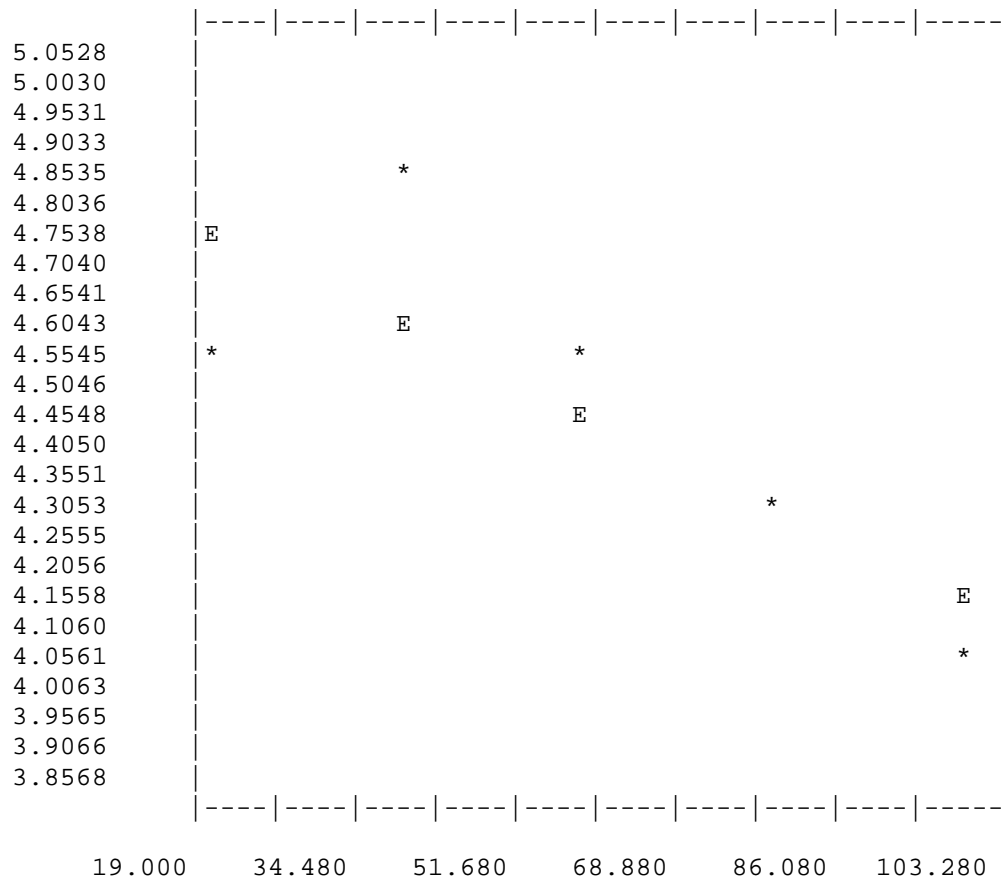
5.95

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	4.88994	-0.00778	0.81206	0.65944
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	90.	4.51086	4.73428
2	40.	122.	4.81218	4.57863
3	60.	91.	4.52179	4.42297
4	80.	70.	4.26268	4.26731
5	100.	54.	4.00733	4.11166



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.58

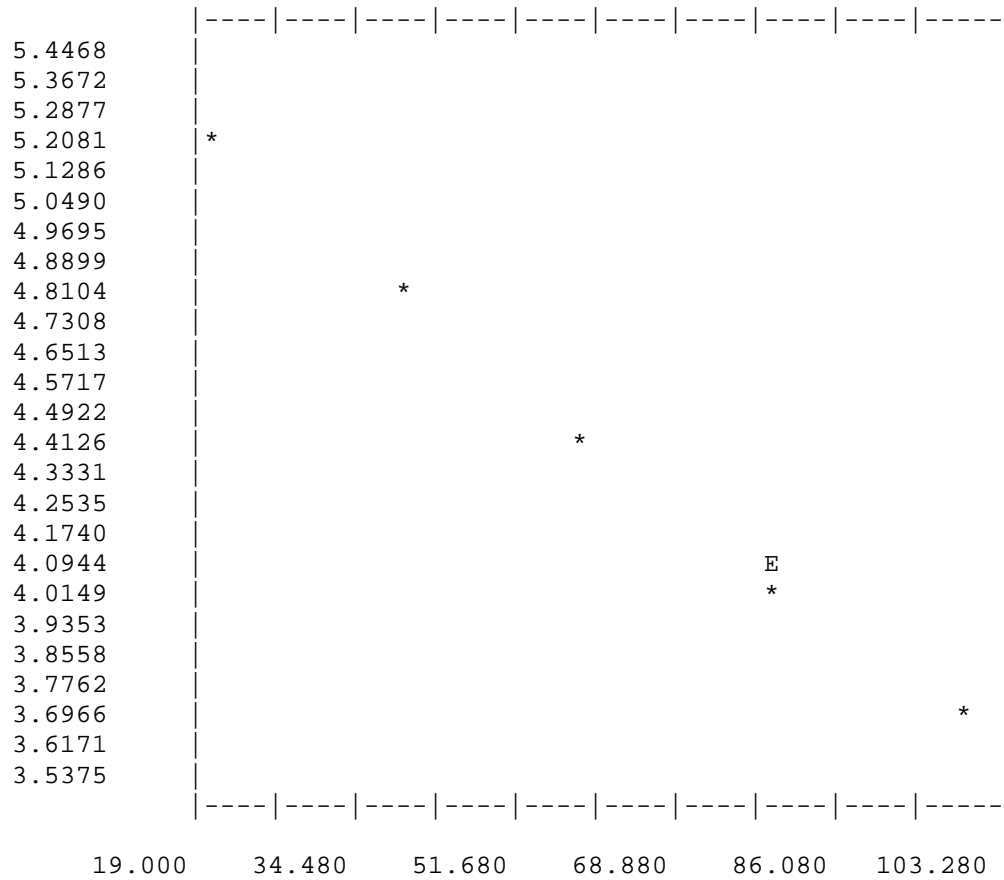
7.89

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.54550	-0.01905	0.99936	0.99873
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	178.	5.18739	5.16440
2	40.	117.	4.77068	4.78330
3	60.	79.	4.38203	4.40220
4	80.	54.	4.00733	4.02110
5	100.	38.	3.66356	3.64000



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.43

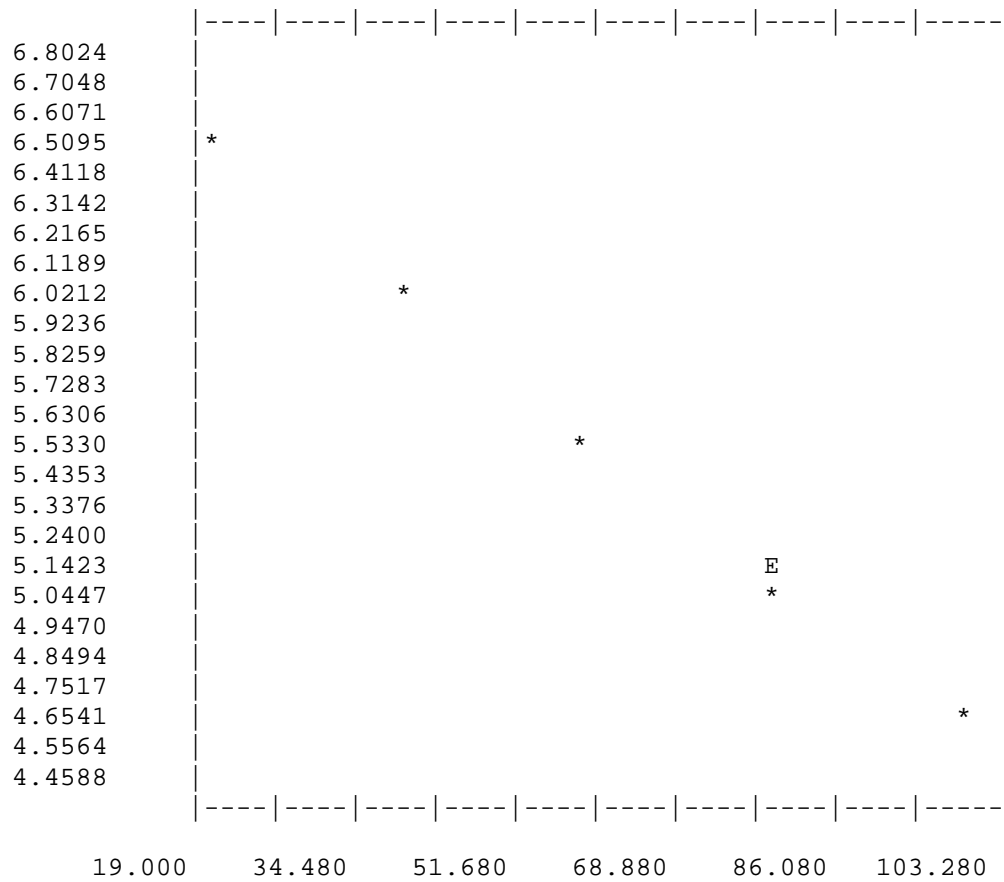
3.22

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.91524	-0.02325	0.99885	0.99769
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	650.	6.47851	6.45033
2	40.	394.	5.97889	5.98541
3	60.	242.	5.49306	5.52049
4	80.	150.	5.01728	5.05558
5	100.	102.	4.63473	4.59066



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.74

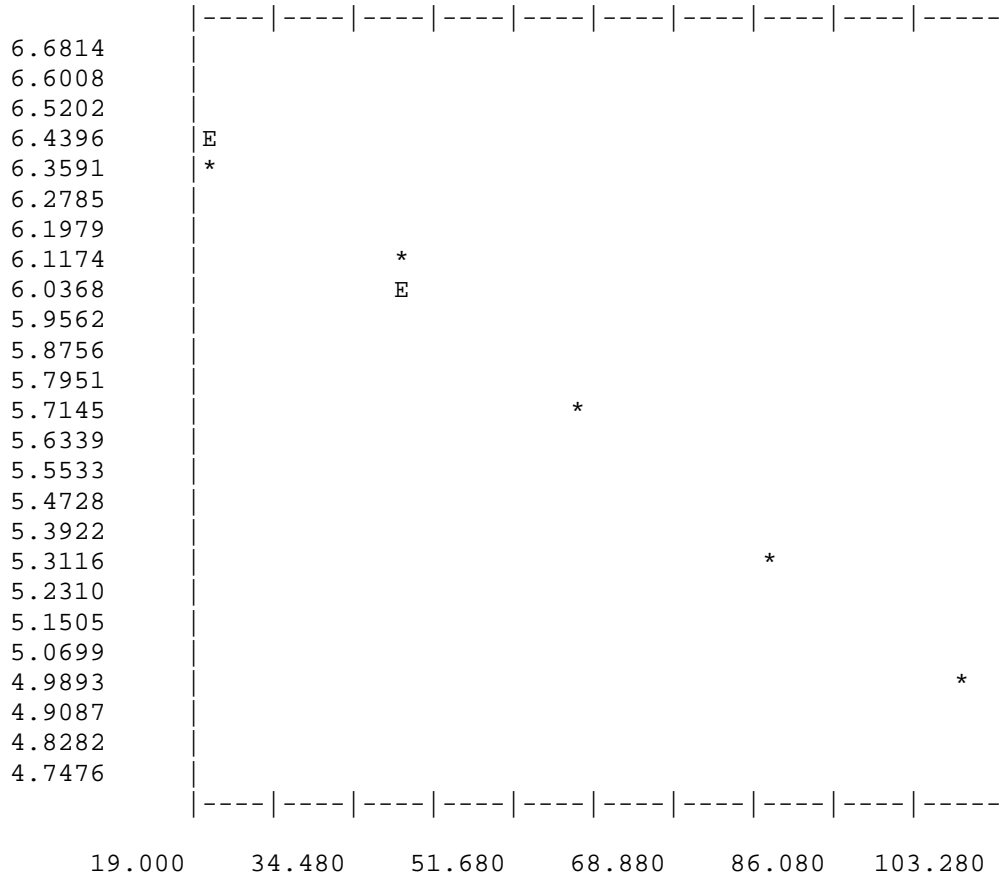
2.64

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.72133	-0.01791	0.99631	0.99264
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	547.	6.30628	6.36321
2	40.	437.	6.08222	6.00509
3	60.	282.	5.64545	5.64697
4	80.	197.	5.28827	5.28885
5	100.	135.	4.91265	4.93073



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.34

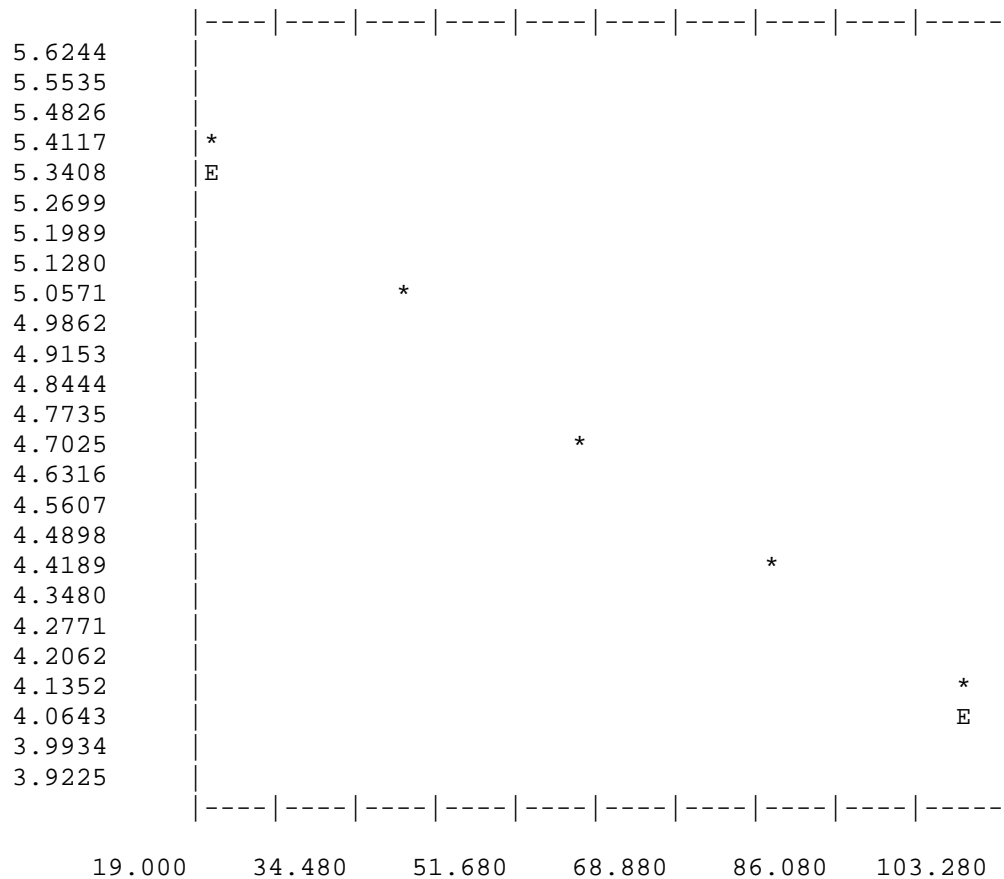
3.43

LIGHT PROFILE ANALYSES - FOR 1/17/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.65698	-0.01603	0.99922	0.99844
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	211.	5.35659	5.33645
2	40.	148.	5.00395	5.01591
3	60.	107.	4.68213	4.69538
4	80.	77.	4.35671	4.37485
5	100.	58.	4.07754	4.05432



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.20

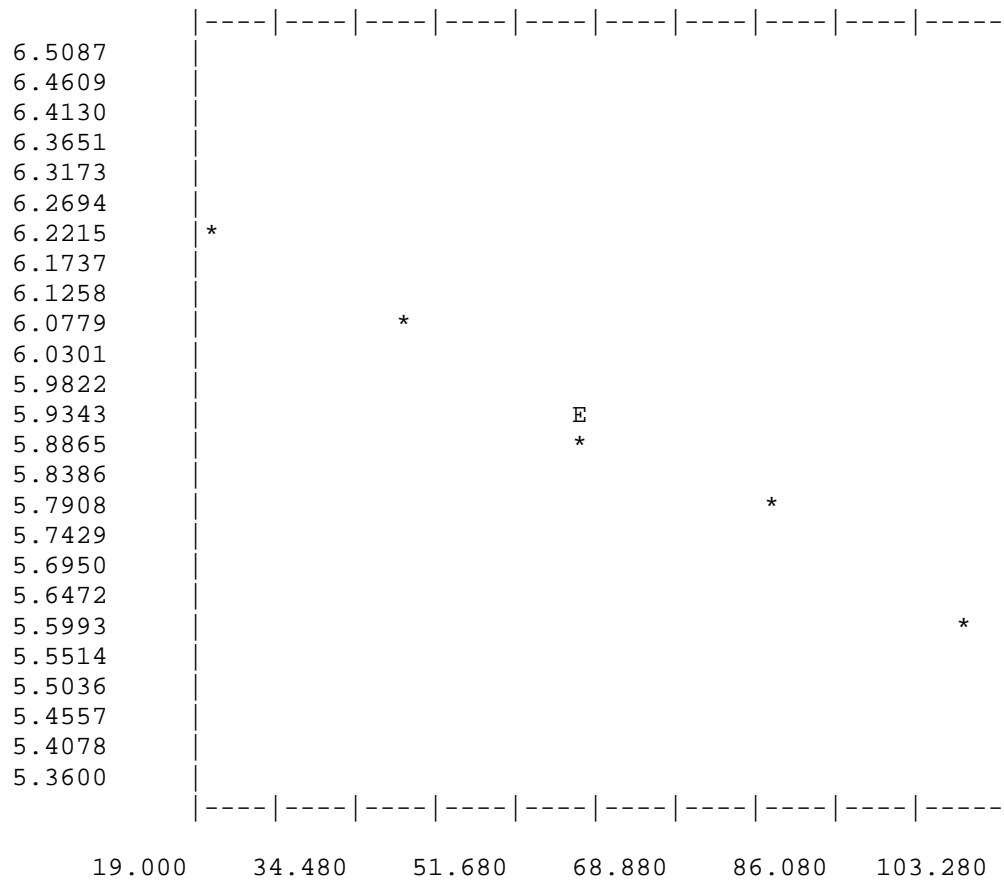
3.83

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.35055	-0.00759	0.99789	0.99579
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	491.	6.19848	6.19878
2	40.	429.	6.06379	6.04701
3	60.	353.	5.86930	5.89524
4	80.	312.	5.74620	5.74347
5	100.	269.	5.59842	5.59170



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.57

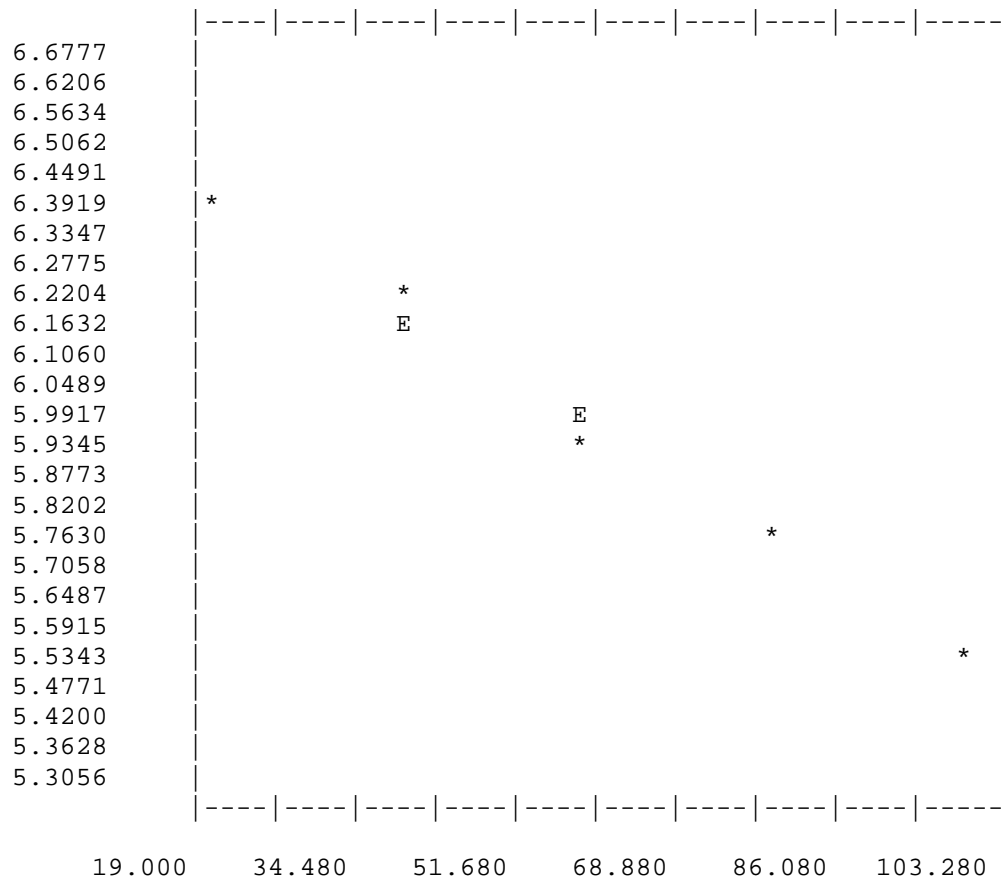
8.09

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.56852	-0.01044	0.99811	0.99622
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	568.	6.34388	6.35975
2	40.	484.	6.18415	6.15098
3	60.	373.	5.92426	5.94222
4	80.	308.	5.73334	5.73345
5	100.	250.	5.52545	5.52468



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.78

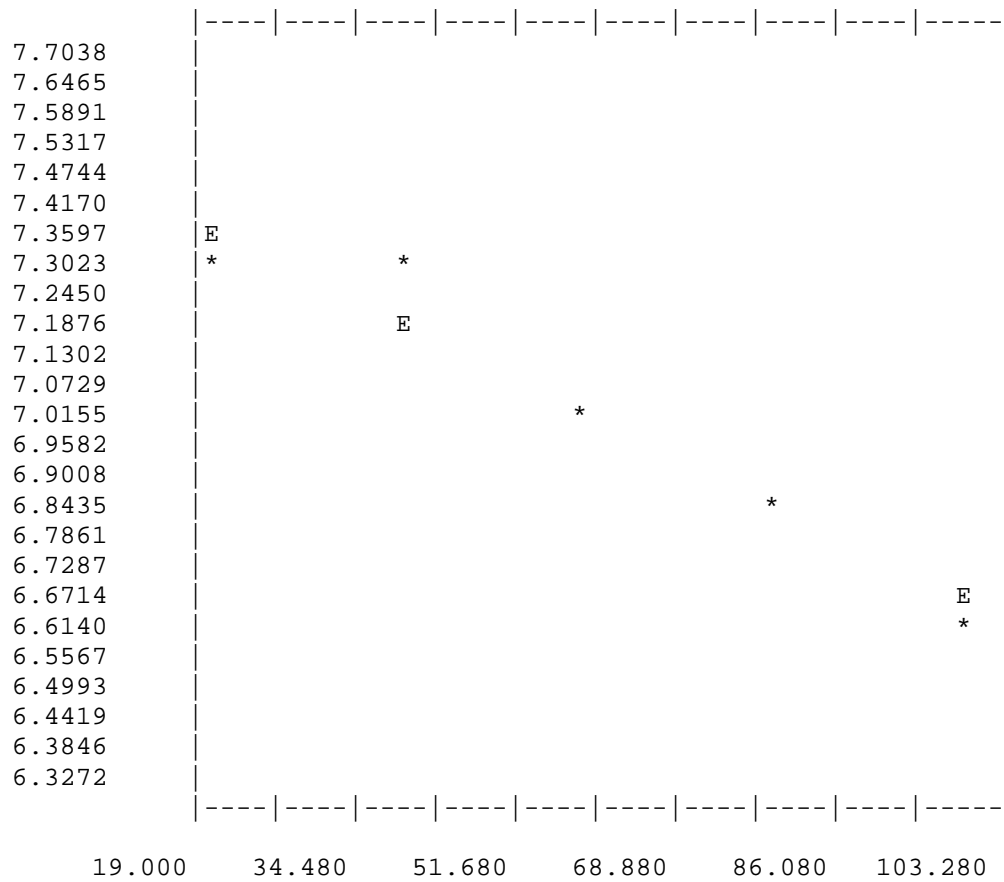
5.88

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.51134	-0.00872	0.97481	0.95025
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	1429.	7.26543	7.33697
2	40.	1413.	7.25418	7.16260
3	60.	1074.	6.98008	6.98823
4	80.	935.	6.84162	6.81387
5	100.	734.	6.59987	6.63950



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.65

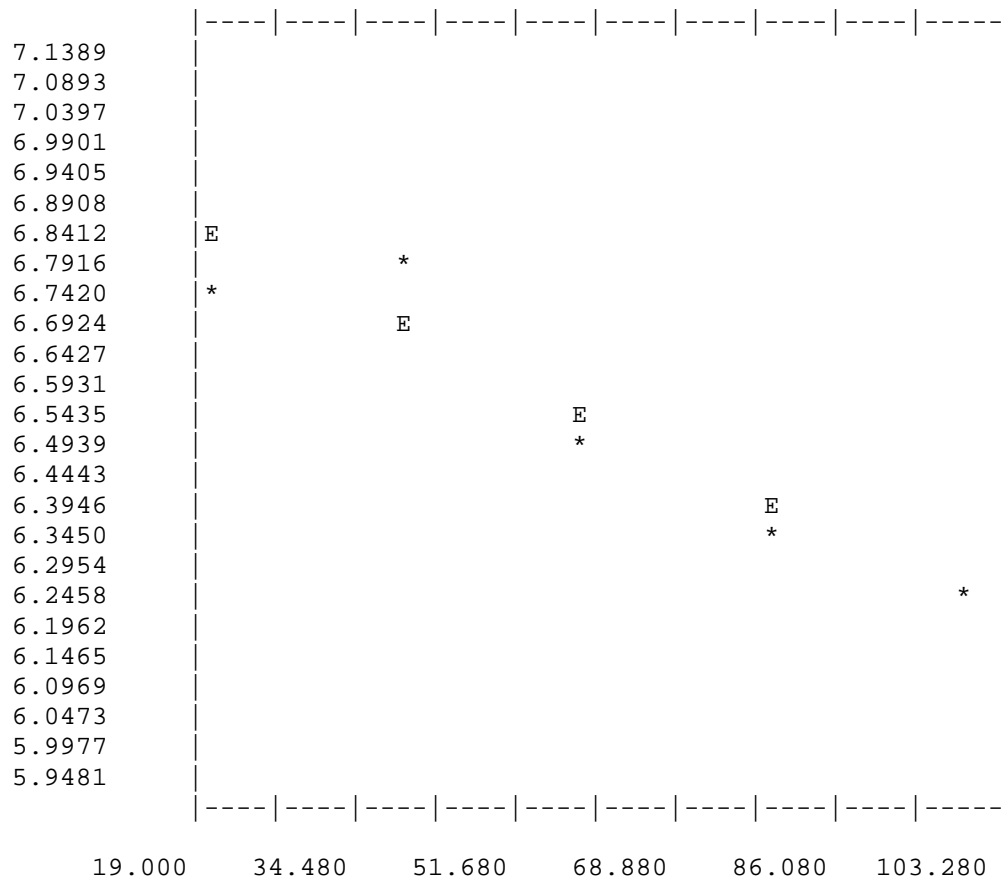
7.04

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.94650	-0.00738	0.96469	0.93062
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	839.	6.73340	6.79898
2	40.	858.	6.75577	6.65146
3	60.	660.	6.49375	6.50393
4	80.	558.	6.32615	6.35641
5	100.	497.	6.21060	6.20889



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.55

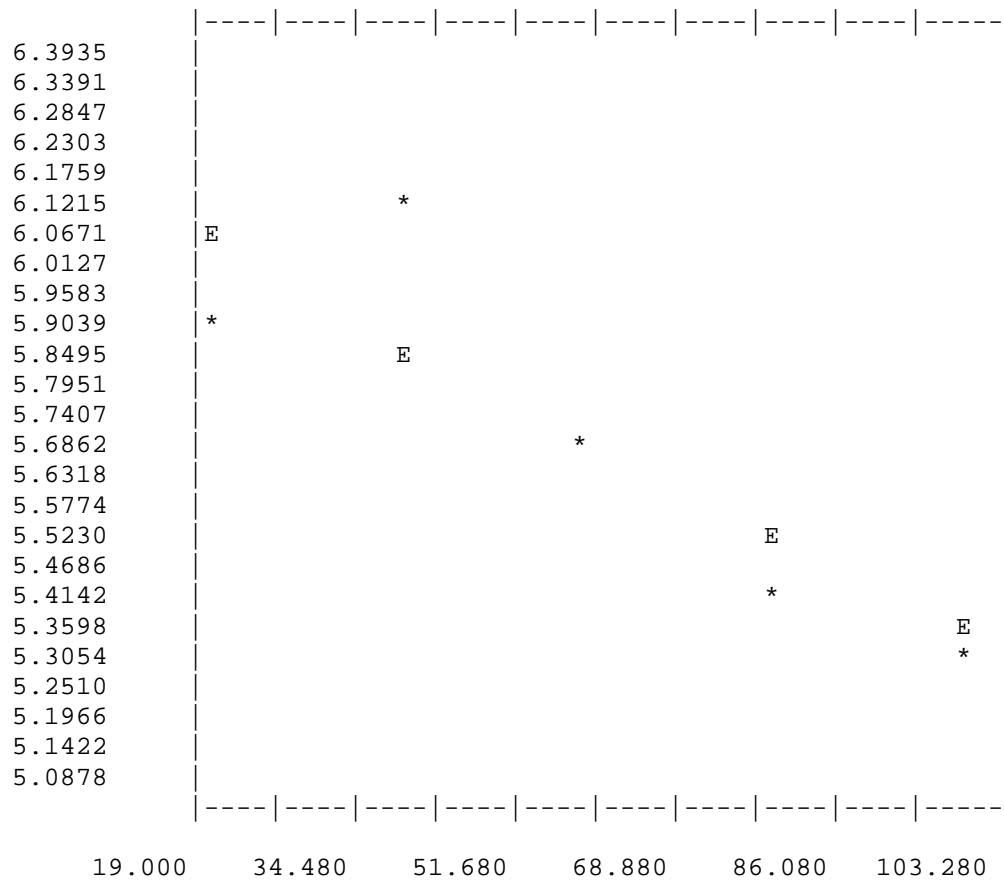
8.32

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.20504	-0.00898	0.88112	0.77637
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	349.	5.85793	6.02538
2	40.	440.	6.08905	5.84572
3	60.	290.	5.67332	5.66605
4	80.	223.	5.41165	5.48639
5	100.	199.	5.29832	5.30673



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.67

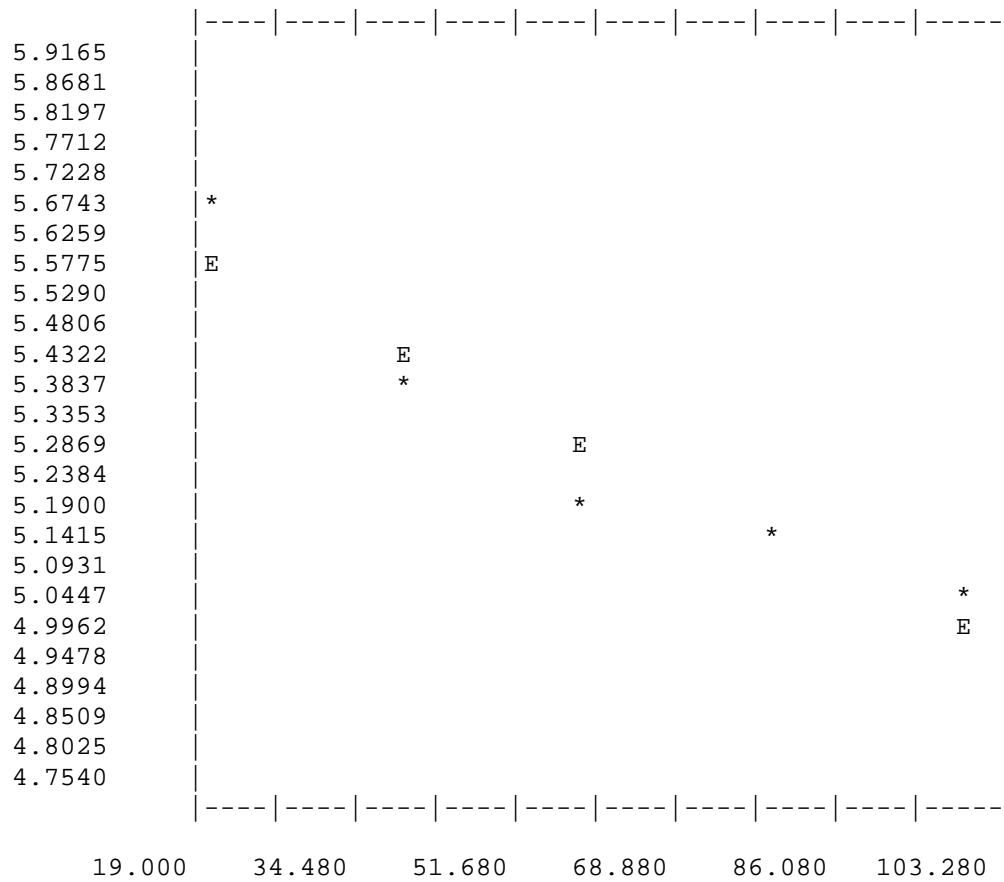
6.84

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.70886	-0.00756	0.96422	0.92972
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	279.	5.63479	5.55774
2	40.	211.	5.35659	5.40662
3	60.	177.	5.18178	5.25551
4	80.	162.	5.09375	5.10439
5	100.	149.	5.01064	4.95328



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.57

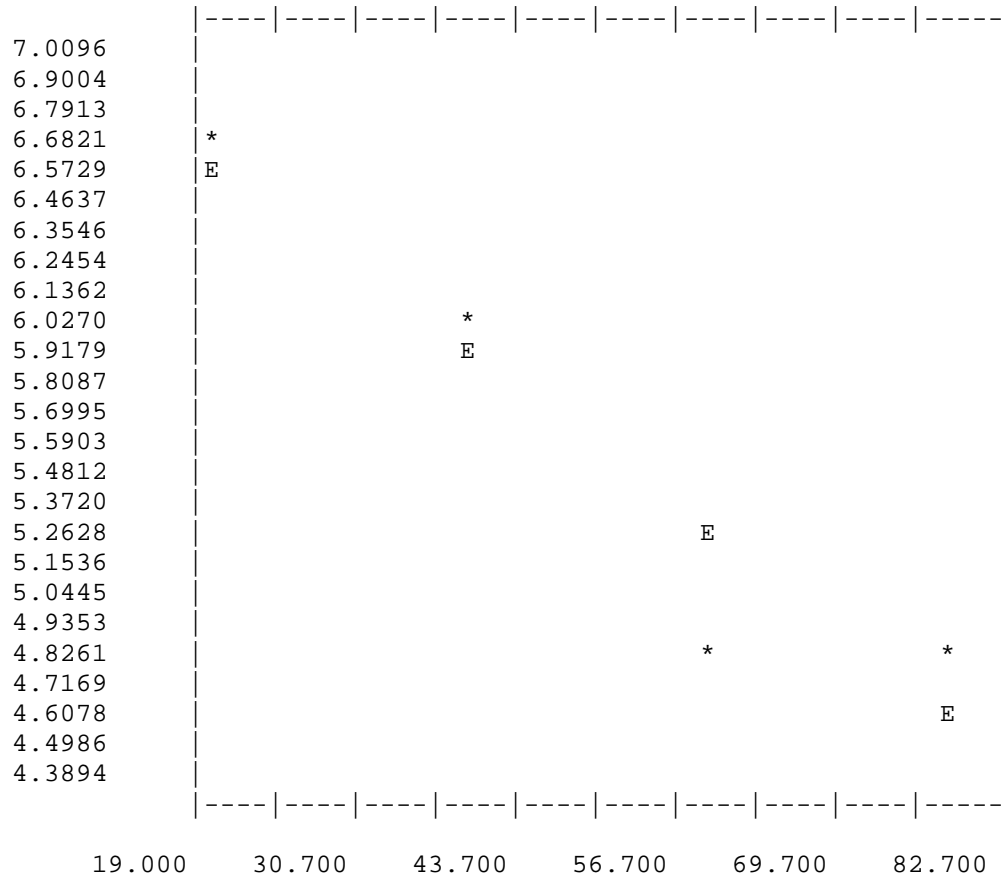
8.13

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.25553	-0.03438	0.95213	0.90655
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	792.	6.67582	6.56802
2	40.	372.	5.92158	5.88052
3	60.	119.	4.78749	5.19302
4	80.	116.	4.76217	4.50551



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.58

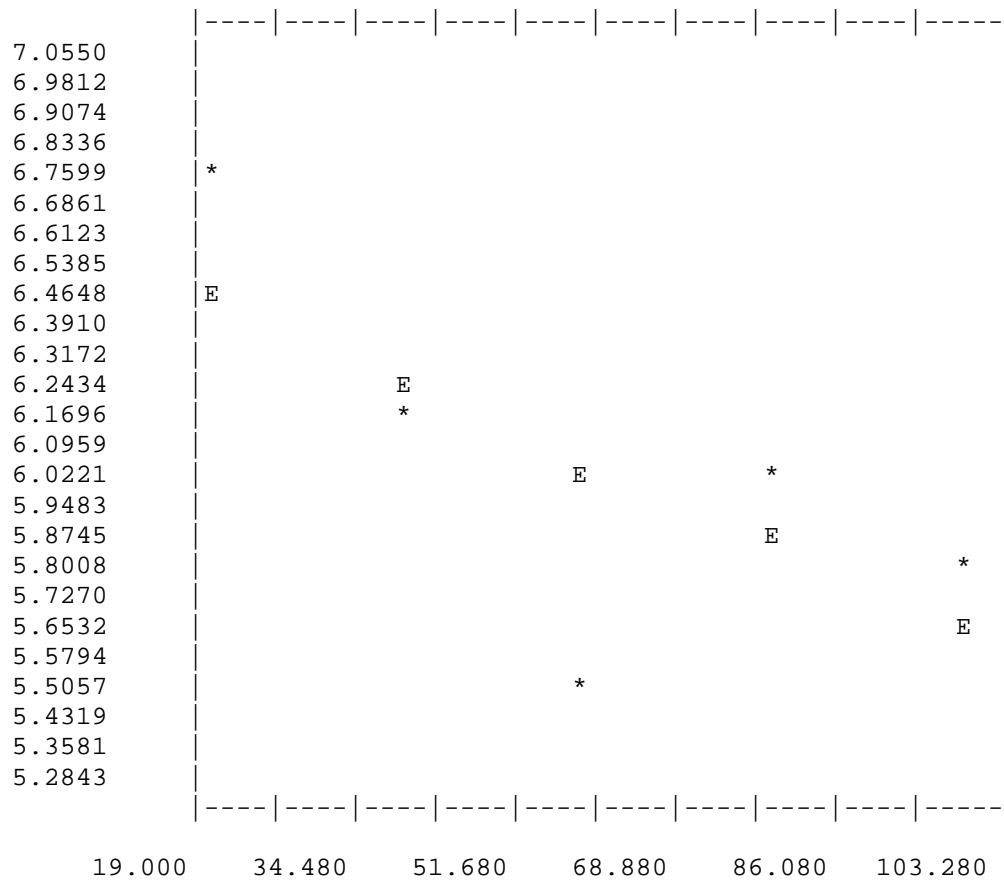
1.79

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.62728	-0.01030	0.70385	0.49541
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	827.	6.71901	6.42130
2	40.	448.	6.10702	6.21532
3	60.	240.	5.48480	6.00934
4	80.	397.	5.98645	5.80335
5	100.	313.	5.74939	5.59737



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.77

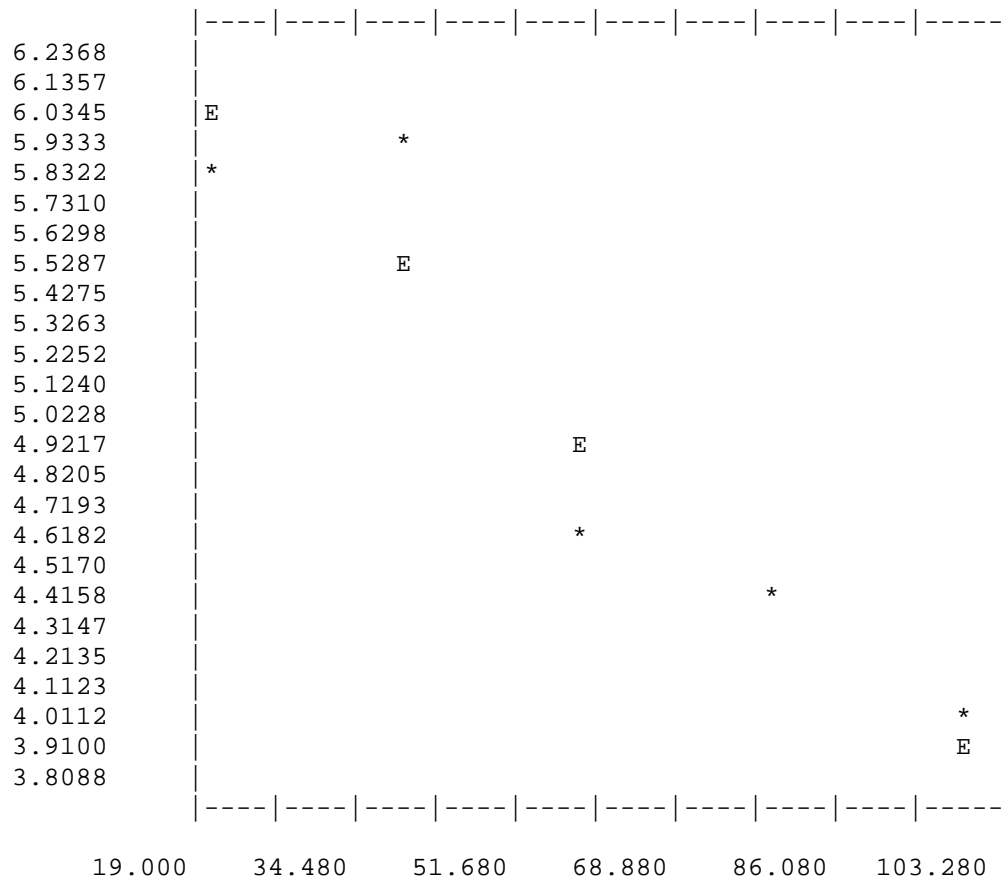
5.96

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.44911	-0.02546	0.93790	0.87965
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	321.	5.77455	5.93985
2	40.	360.	5.88888	5.43059
3	60.	99.	4.60517	4.92133
4	80.	75.	4.33073	4.41207
5	100.	54.	4.00733	3.90282



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.91

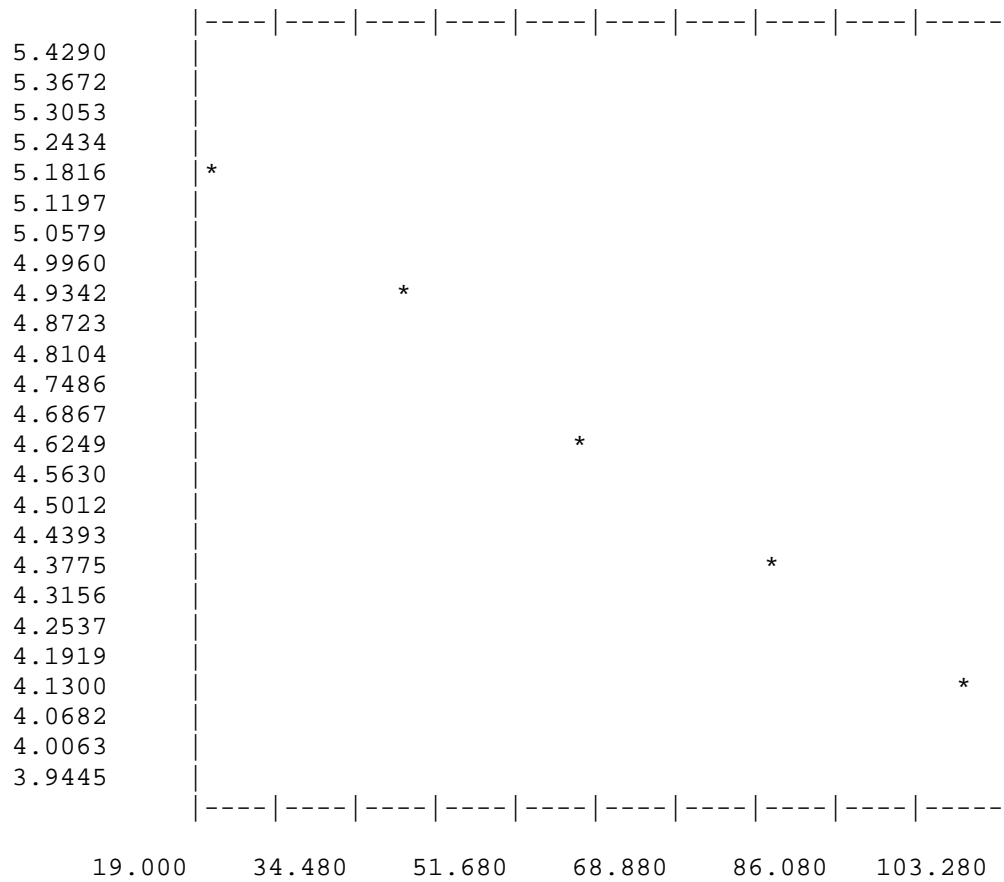
2.41

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.42357	-0.01337	0.99839	0.99678
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	175.	5.17048	5.15625
2	40.	133.	4.89784	4.88892
3	60.	97.	4.58497	4.62159
4	80.	76.	4.34381	4.35427
5	100.	60.	4.11087	4.08694



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.00

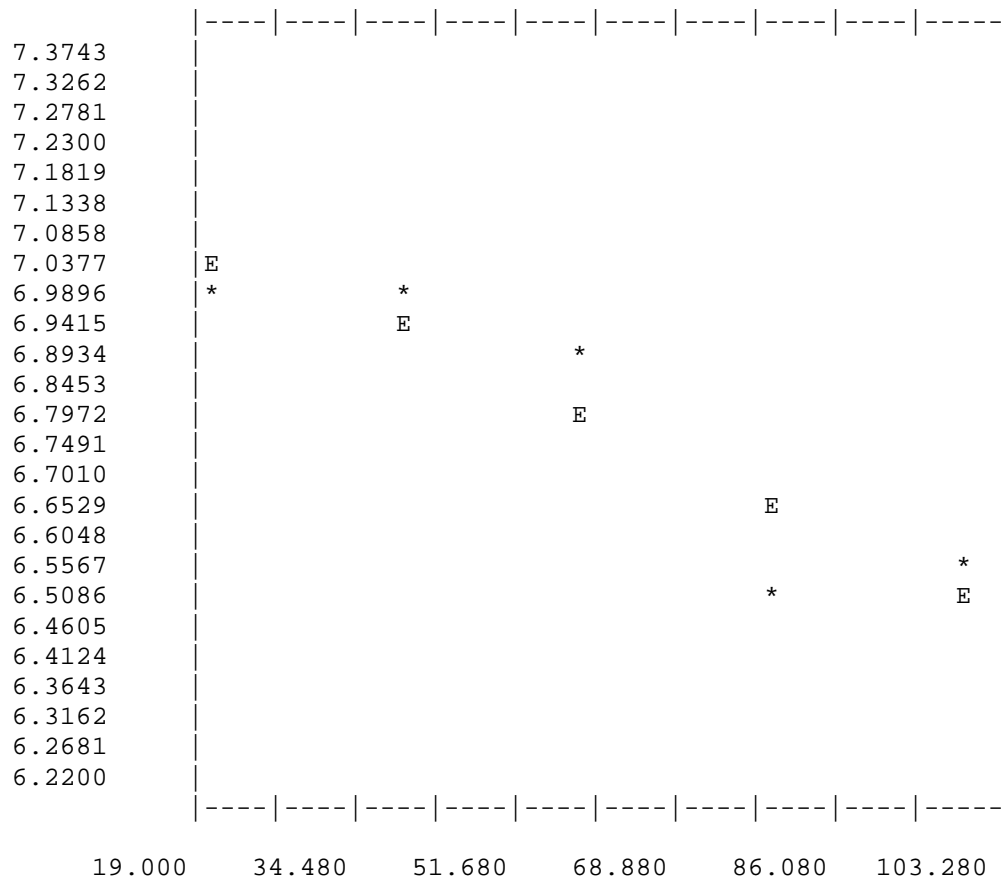
4.59

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	7.15254	-0.00647	0.89438	0.79992
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	1051.	6.95845	7.02317
2	40.	1036.	6.94409	6.89379
3	60.	979.	6.88755	6.76442
4	80.	662.	6.49678	6.63505
5	100.	688.	6.53524	6.50568



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.49

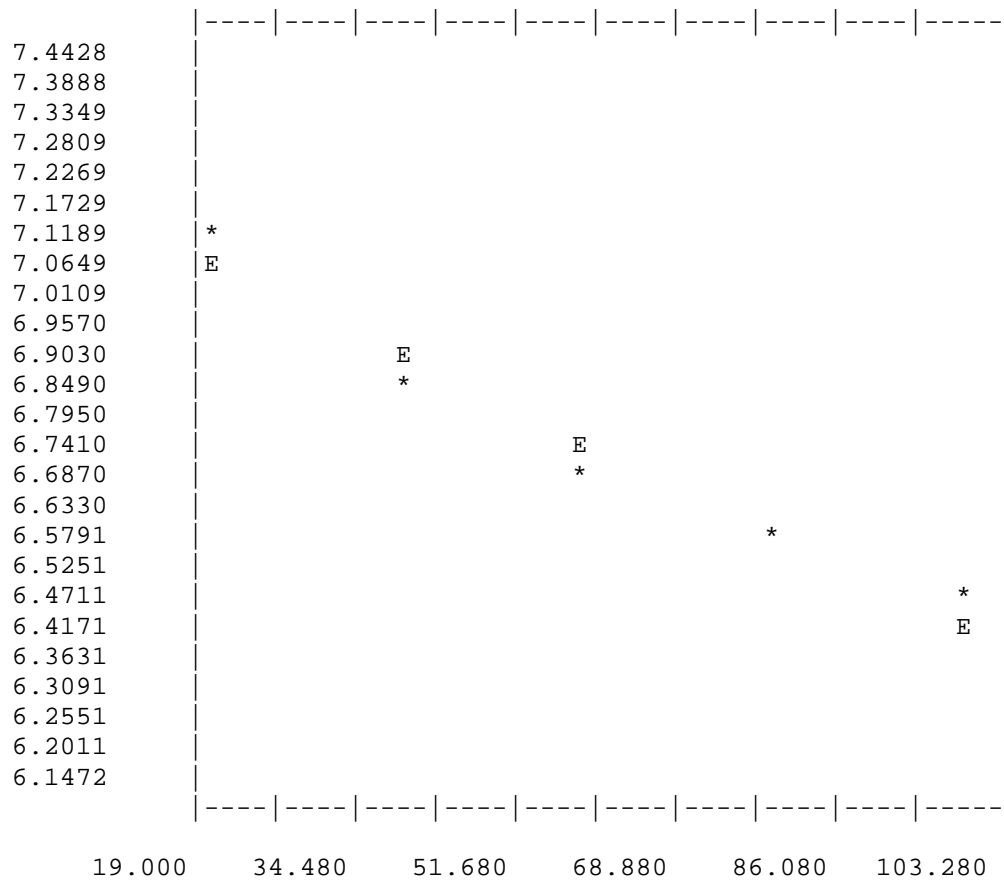
9.49

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.17193	-0.00758	0.96722	0.93552
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	1197.	7.08841	7.02031
2	40.	930.	6.83626	6.86870
3	60.	760.	6.63463	6.71709
4	80.	702.	6.55536	6.56548
5	100.	645.	6.47080	6.41387



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.57

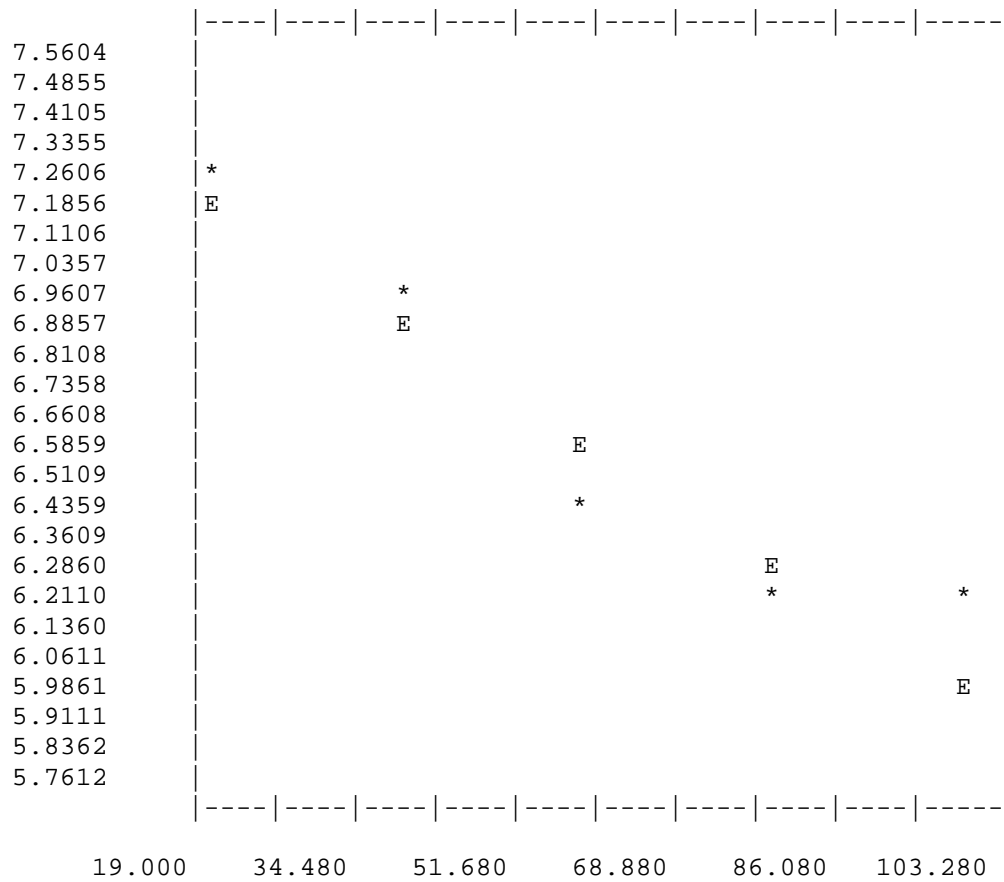
8.10

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	7.44948	-0.01464	0.95579	0.91354
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	1339.	7.20042	7.15668
2	40.	1050.	6.95750	6.86388
3	60.	609.	6.41346	6.57109
4	80.	462.	6.13773	6.27829
5	100.	466.	6.14633	5.98550



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.10

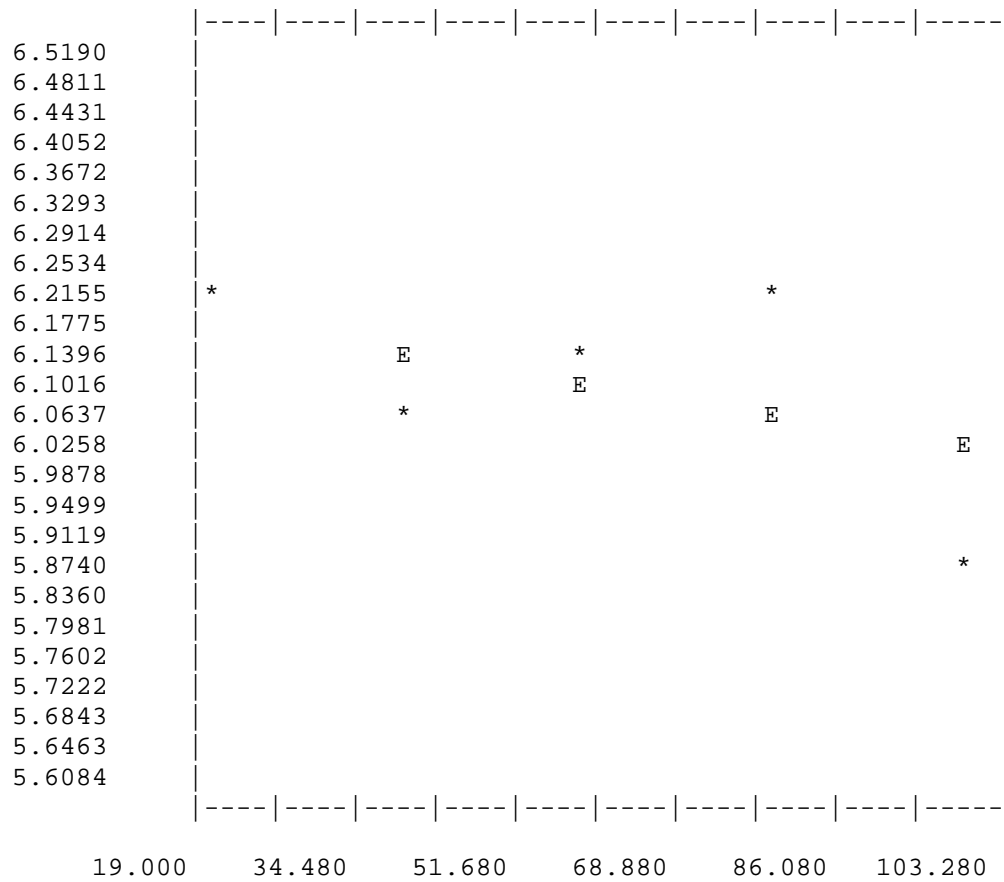
4.19

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.23406	-0.00243	0.54159	0.29332
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	488.	6.19236	6.18538
2	40.	418.	6.03787	6.13671
3	60.	462.	6.13773	6.08804
4	80.	496.	6.20859	6.03936
5	100.	351.	5.86363	5.99069



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.18

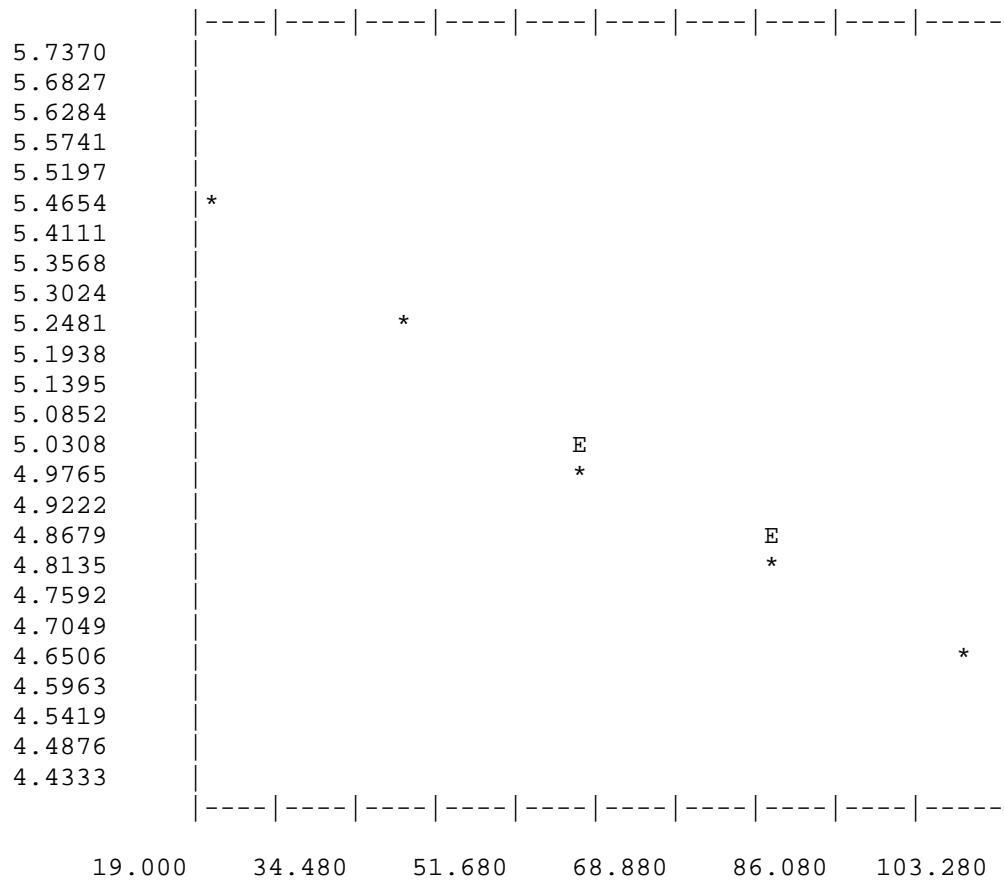
25.23

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.63434	-0.01025	0.99402	0.98808
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	235.	5.46383	5.42936
2	40.	183.	5.21494	5.22438
3	60.	143.	4.96981	5.01940
4	80.	121.	4.80402	4.81442
5	100.	103.	4.64439	4.60944



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.77

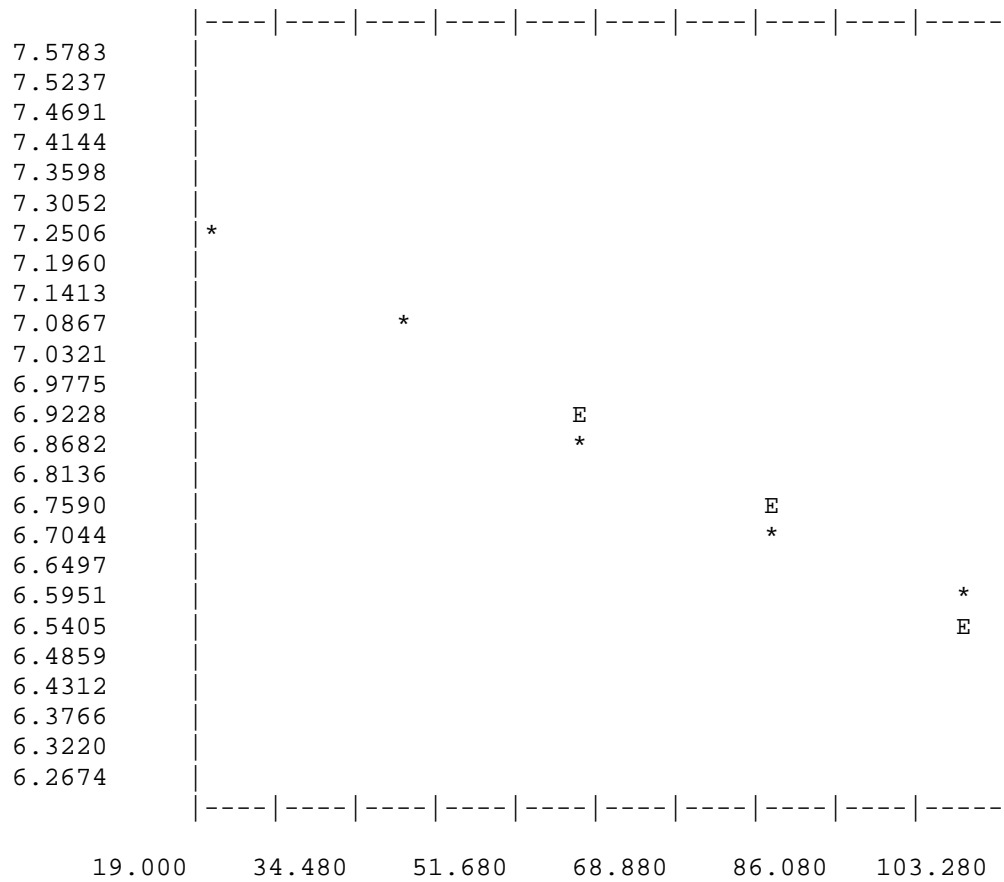
5.99

LIGHT PROFILE ANALYSES - FOR 2/14/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	7.36875	-0.00829	0.99503	0.99009
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	1362.	7.21744	7.20295
2	40.	1143.	7.04229	7.03714
3	60.	943.	6.85013	6.87134
4	80.	791.	6.67456	6.70554
5	100.	714.	6.57228	6.53973



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.62

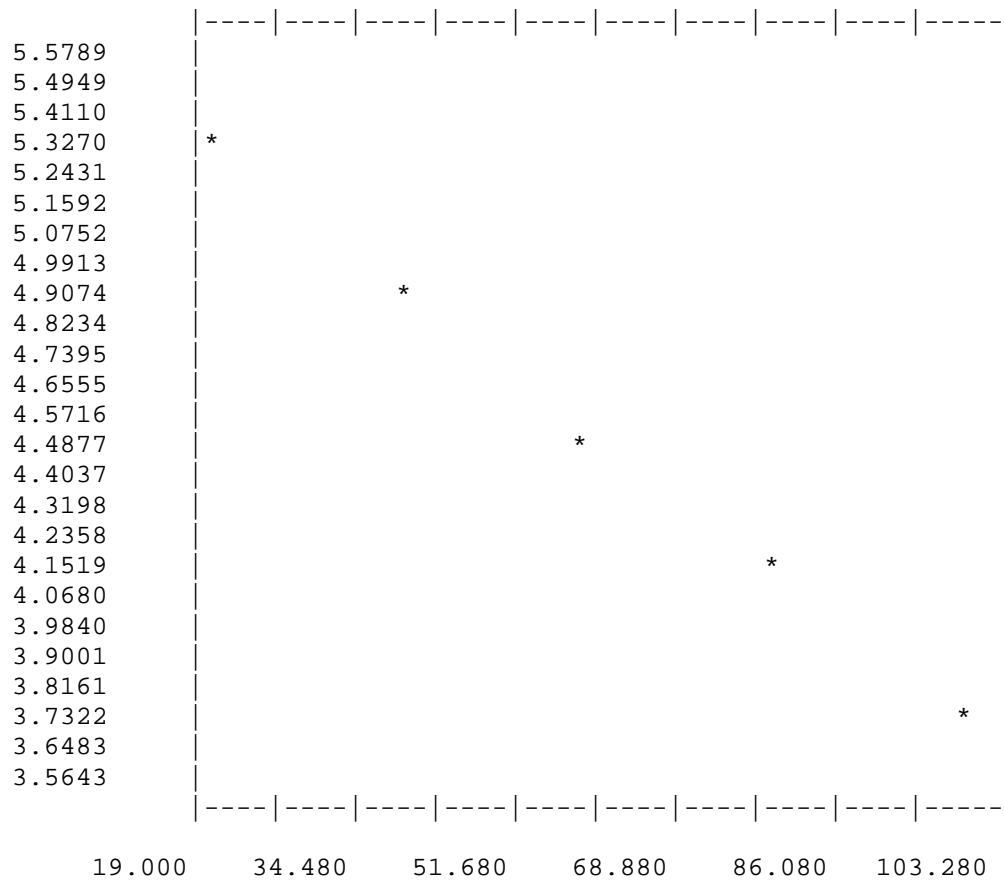
7.41

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.68996	-0.02020	0.99776	0.99553
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	202.	5.31321	5.28599
2	40.	129.	4.86753	4.88202
3	60.	82.	4.41884	4.47806
4	80.	61.	4.12713	4.07409
5	100.	38.	3.66356	3.67012



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.51

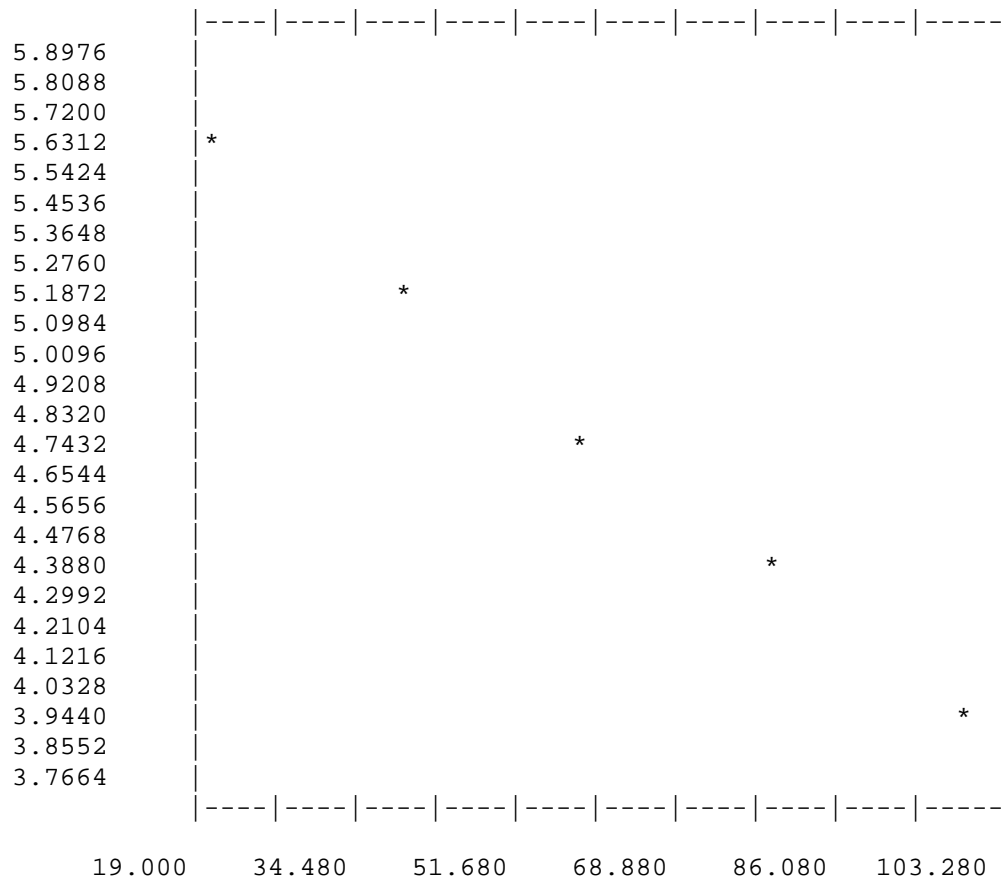
3.04

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.02405	-0.02145	0.99936	0.99873
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	274.	5.61677	5.59502
2	40.	168.	5.12990	5.16599
3	60.	113.	4.73620	4.73696
4	80.	75.	4.33073	4.30793
5	100.	47.	3.87120	3.87890



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.61

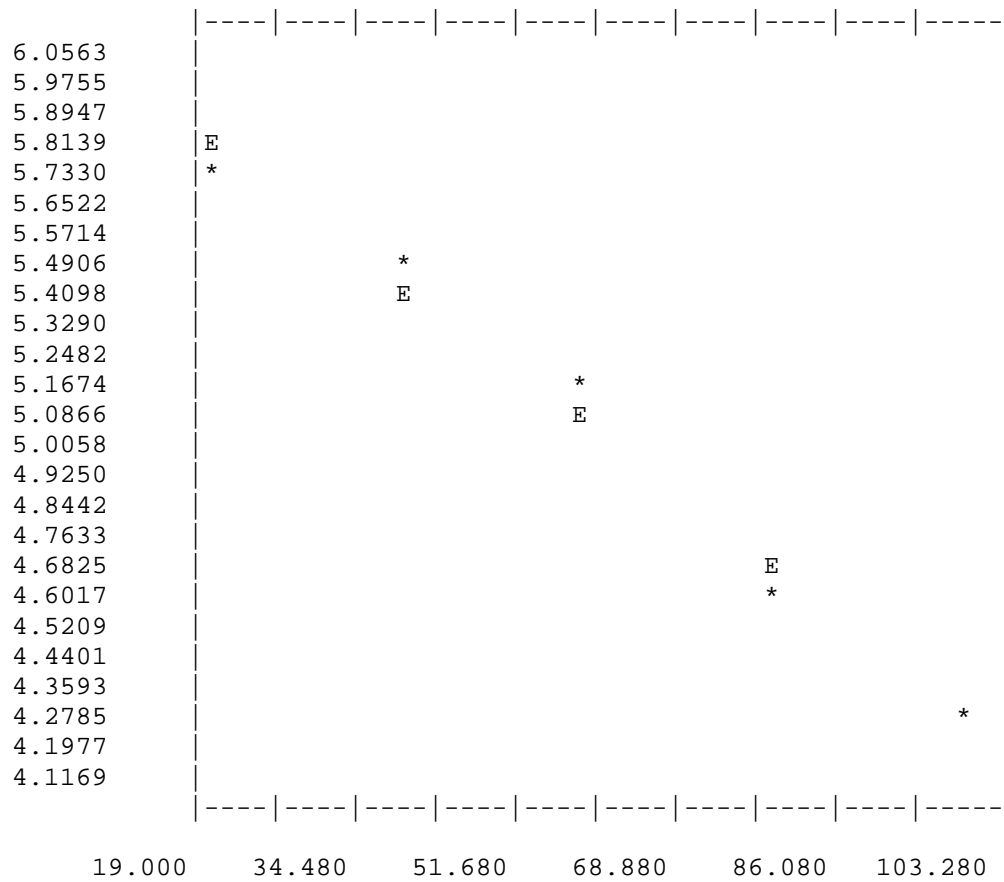
2.86

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.14236	-0.01872	0.99110	0.98227
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	293.	5.68358	5.76788
2	40.	234.	5.45959	5.39340
3	60.	166.	5.11799	5.01892
4	80.	97.	4.58497	4.64445
5	100.	69.	4.24850	4.26997



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

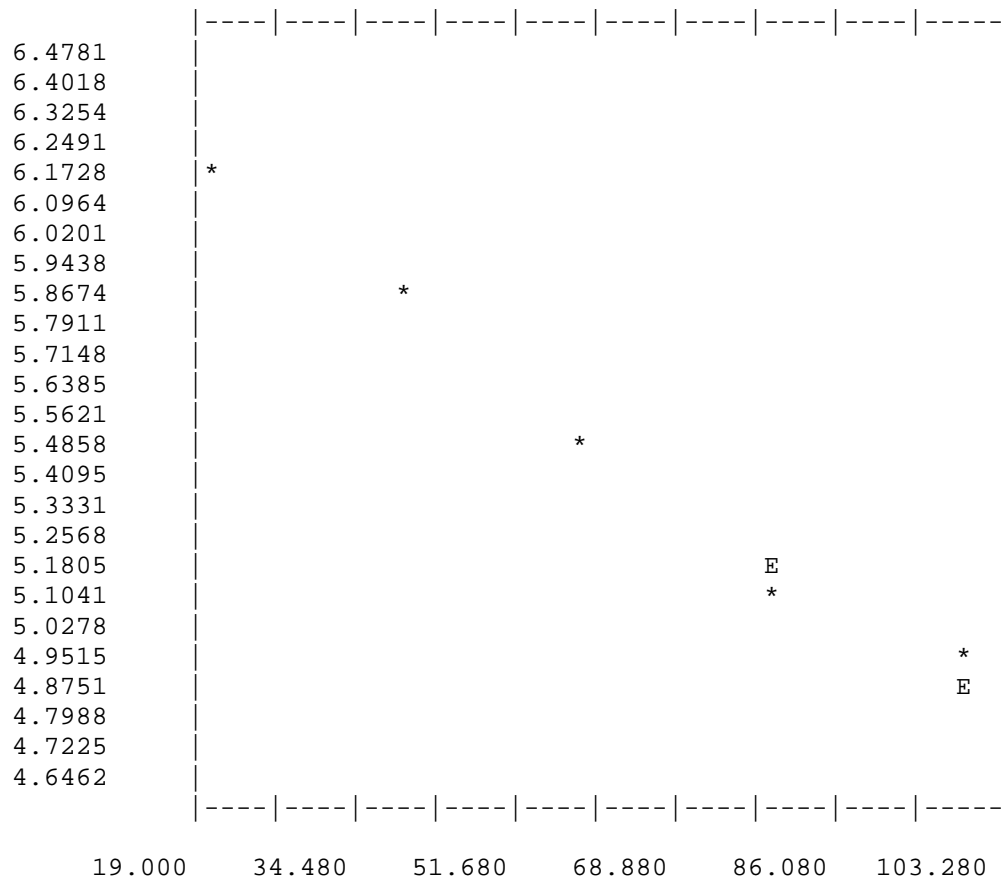
3.28

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.48706	-0.01677	0.99434	0.98872
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	477.	6.16961	6.15172
2	40.	347.	5.85220	5.81637
3	60.	225.	5.42054	5.48103
4	80.	161.	5.08760	5.14569
5	100.	130.	4.87520	4.81034



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.26

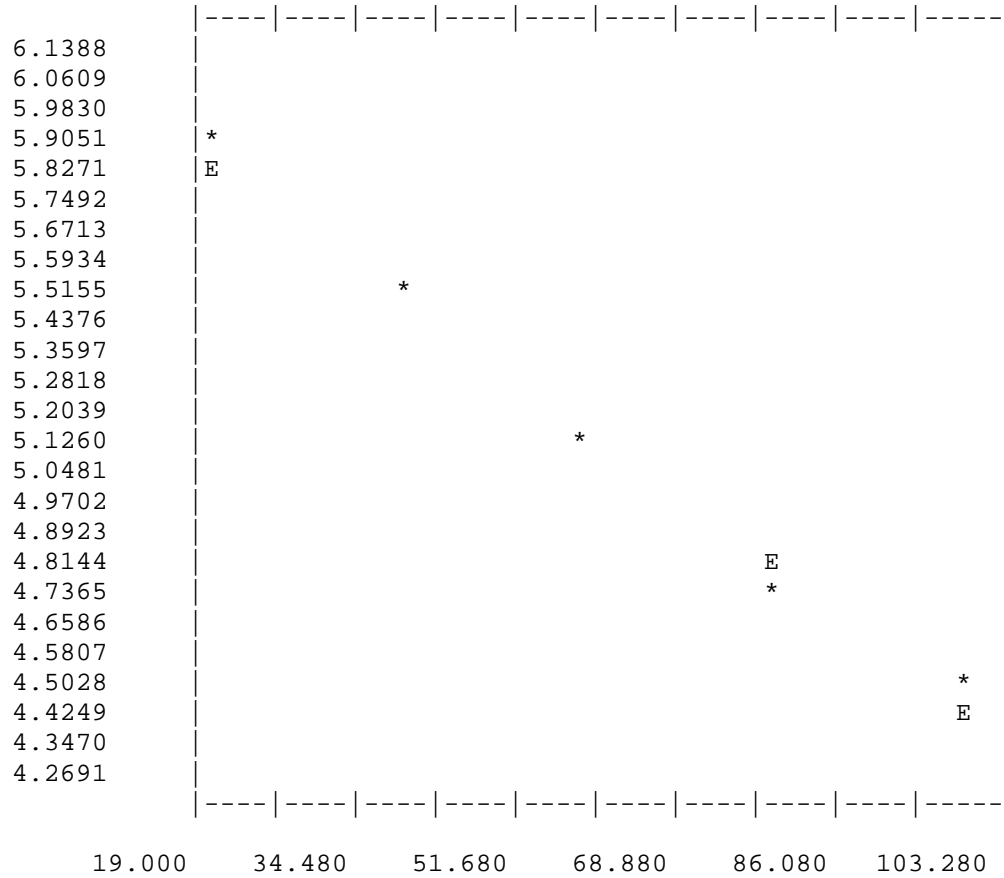
3.66

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.15220	-0.01740	0.99354	0.98713
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	345.	5.84644	5.80412
2	40.	229.	5.43808	5.45603
3	60.	162.	5.09375	5.10795
4	80.	106.	4.67283	4.75986
5	100.	88.	4.48864	4.41178



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.31

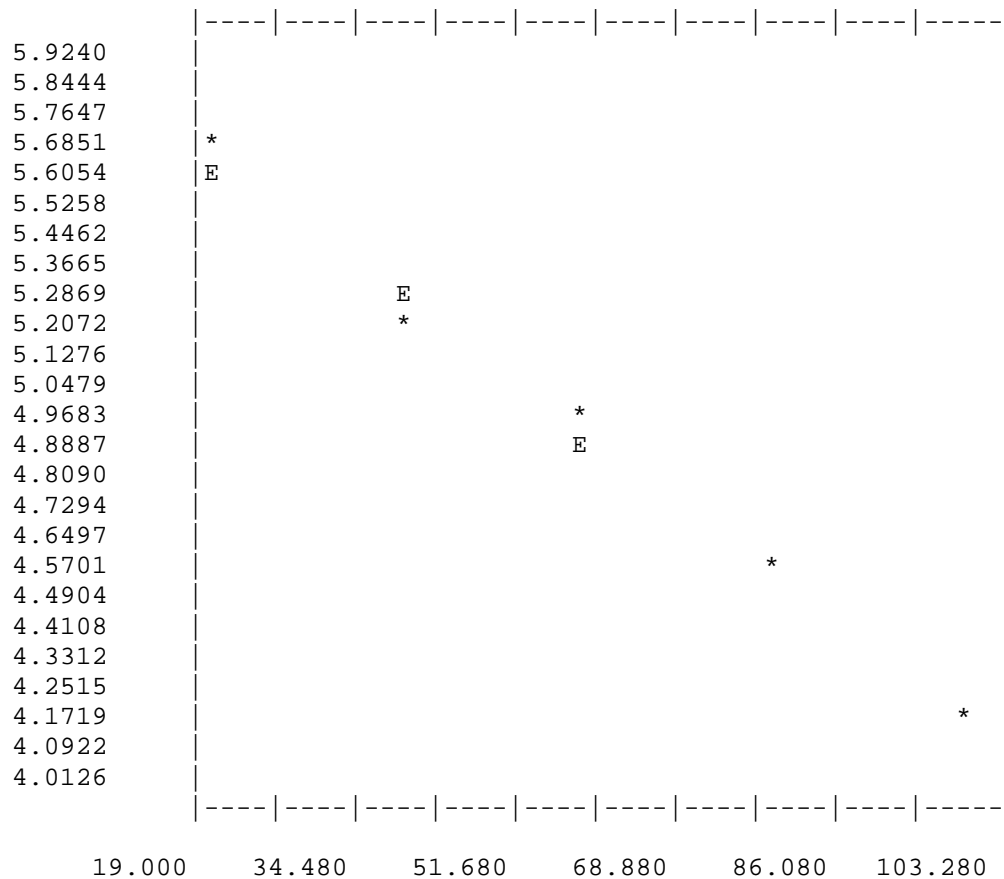
3.53

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.95965	-0.01820	0.99539	0.99080
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	281.	5.64191	5.59571
2	40.	170.	5.14166	5.23177
3	60.	135.	4.91265	4.86783
4	80.	89.	4.49981	4.50389
5	100.	62.	4.14313	4.13995



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.36

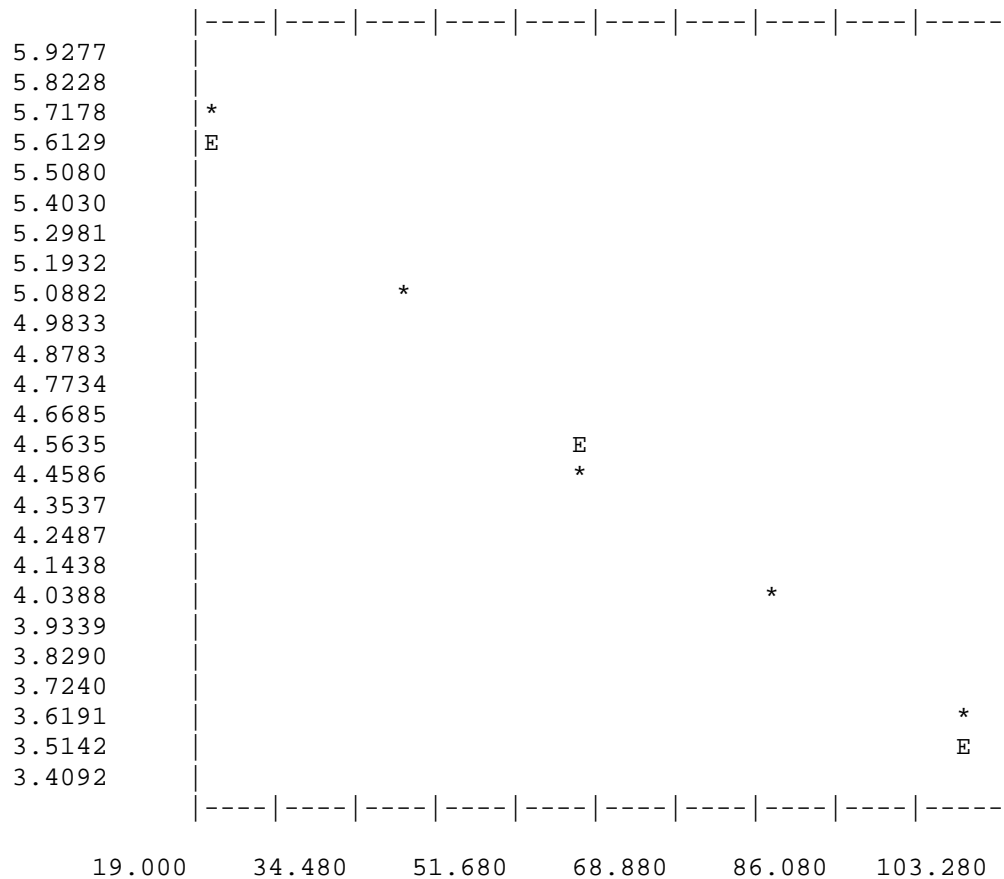
3.37

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.13741	-0.02659	0.99754	0.99509
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	282.	5.64545	5.60557
2	40.	161.	5.08760	5.07372
3	60.	84.	4.44265	4.54188
4	80.	54.	4.00733	4.01003
5	100.	33.	3.52636	3.47819



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.99

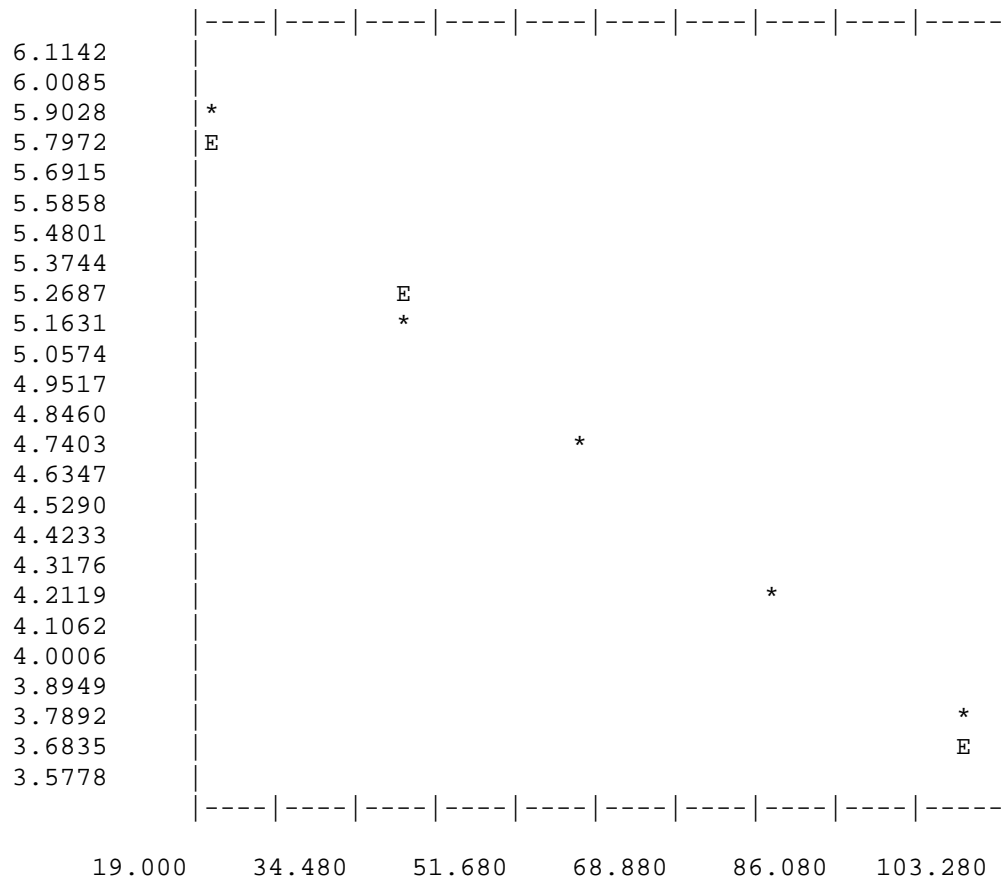
2.31

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.27270	-0.02618	0.99744	0.99489
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	337.	5.82305	5.74914
2	40.	170.	5.14166	5.22558
3	60.	107.	4.68213	4.70202
4	80.	64.	4.17439	4.17846
5	100.	39.	3.68888	3.65490



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.96

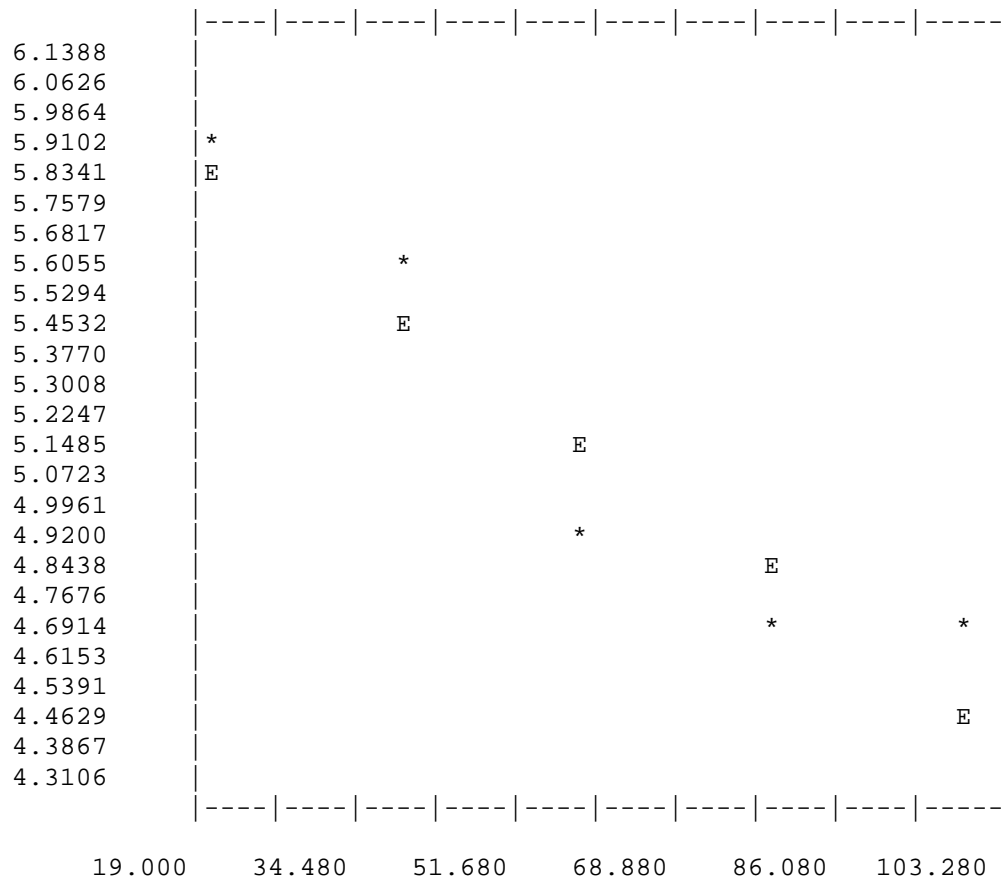
2.35

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.10120	-0.01644	0.95174	0.90581
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	345.	5.84644	5.77241
2	40.	253.	5.53733	5.44362
3	60.	131.	4.88280	5.11483
4	80.	106.	4.67283	4.78603
5	100.	102.	4.63473	4.45724



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.23

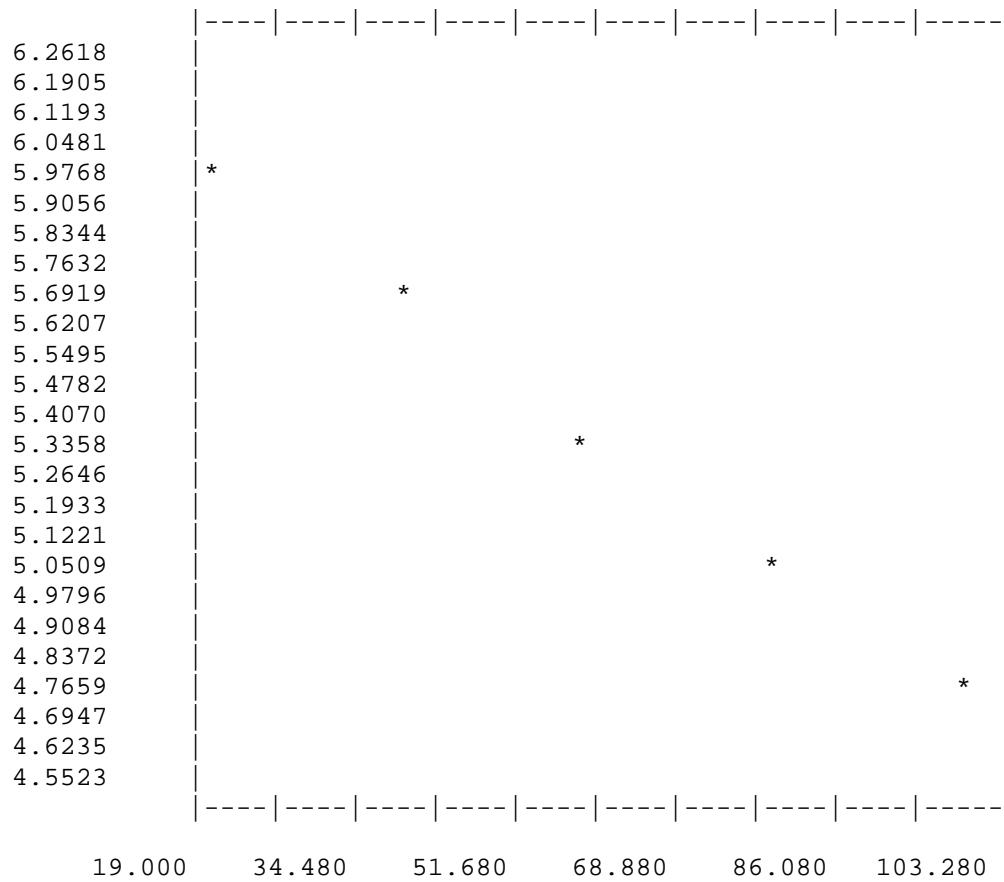
3.74

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.25812	-0.01541	0.99947	0.99895
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	388.	5.96358	5.94987
2	40.	280.	5.63835	5.64163
3	60.	203.	5.31812	5.33338
4	80.	149.	5.01064	5.02513
5	100.	113.	4.73620	4.71688



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.16

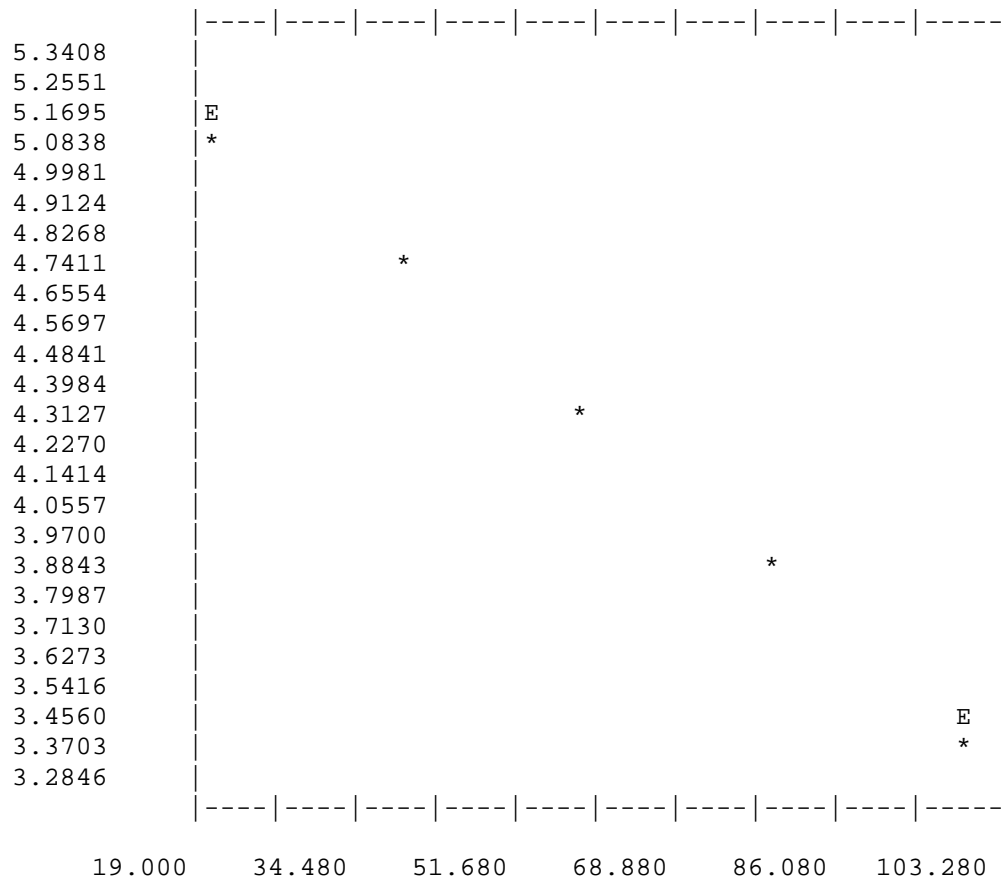
3.98

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.51030	-0.02119	0.99794	0.99589
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	153.	5.03695	5.08649
2	40.	112.	4.72739	4.66268
3	60.	68.	4.23411	4.23888
4	80.	45.	3.82864	3.81507
5	100.	28.	3.36730	3.39126



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.59

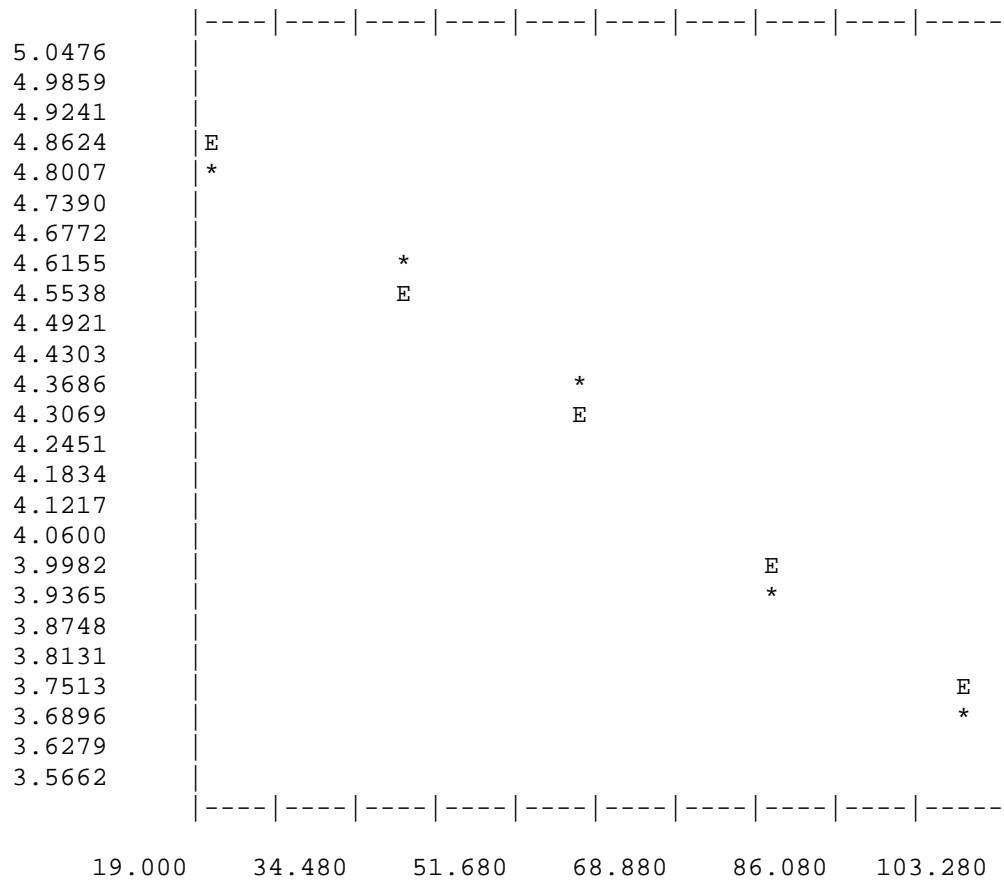
2.90

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.08607	-0.01394	0.99192	0.98390
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	116.	4.76217	4.80723
2	40.	94.	4.55388	4.52838
3	60.	75.	4.33073	4.24954
4	80.	49.	3.91202	3.97069
5	100.	39.	3.68888	3.69185



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.05

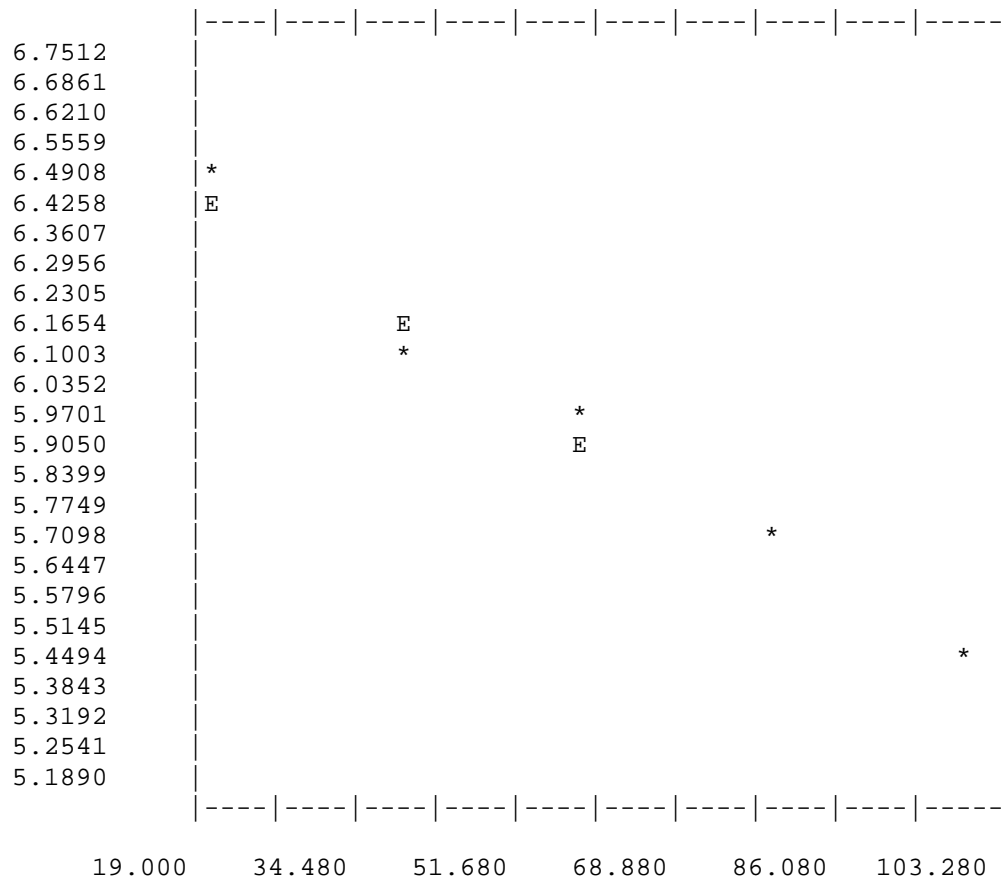
4.40

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.64843	-0.01251	0.99572	0.99145
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	619.	6.42972	6.39813
2	40.	439.	6.08677	6.14784
3	60.	372.	5.92158	5.89754
4	80.	285.	5.65599	5.64724
5	100.	219.	5.39363	5.39694



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.94

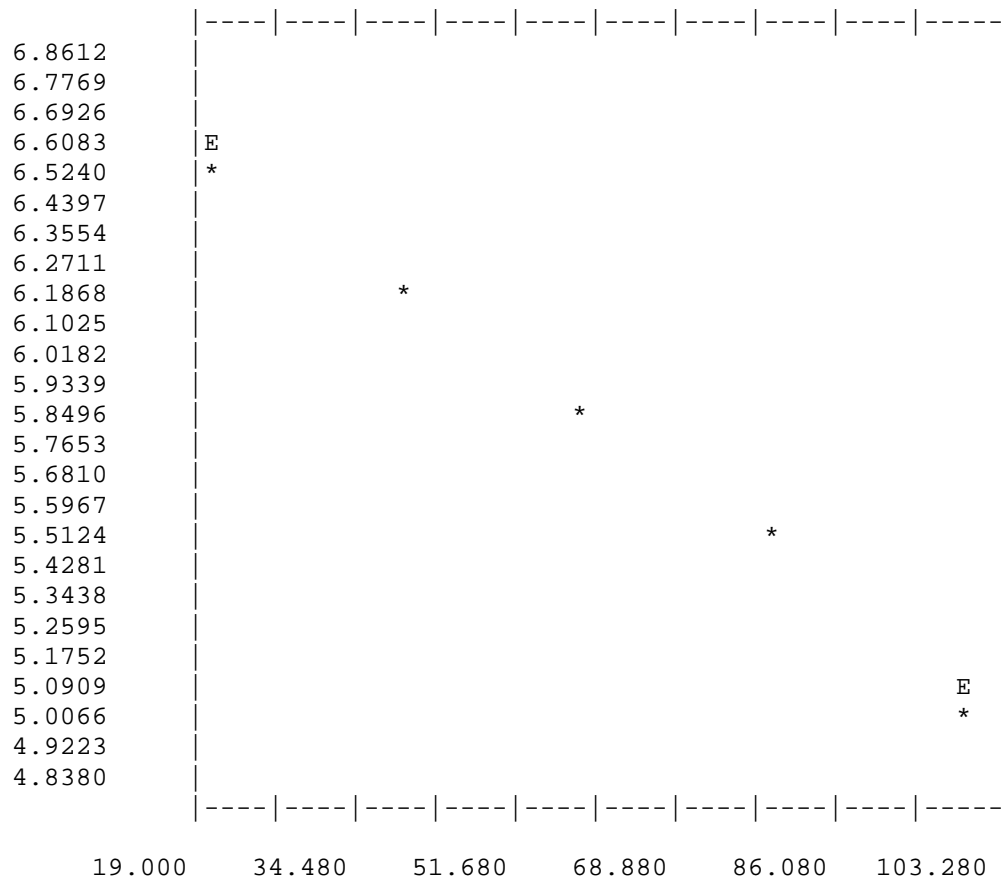
4.91

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.90280	-0.01842	0.99680	0.99361
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	677.	6.51915	6.53443
2	40.	466.	6.14633	6.16606
3	60.	338.	5.82600	5.79770
4	80.	242.	5.49306	5.42933
5	100.	148.	5.00395	5.06096



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.38

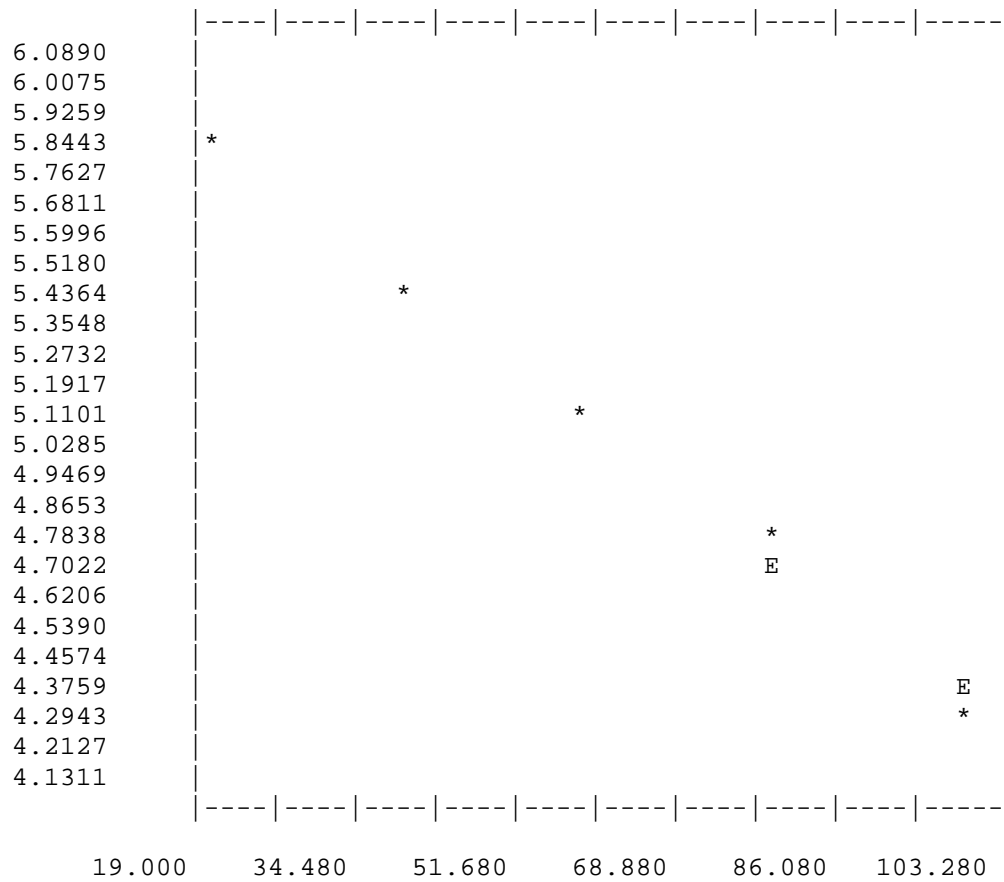
3.33

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.16743	-0.01865	0.99673	0.99347
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	329.	5.79909	5.79450
2	40.	213.	5.36598	5.42157
3	60.	164.	5.10595	5.04865
4	80.	110.	4.70953	4.67572
5	100.	70.	4.26268	4.30279



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

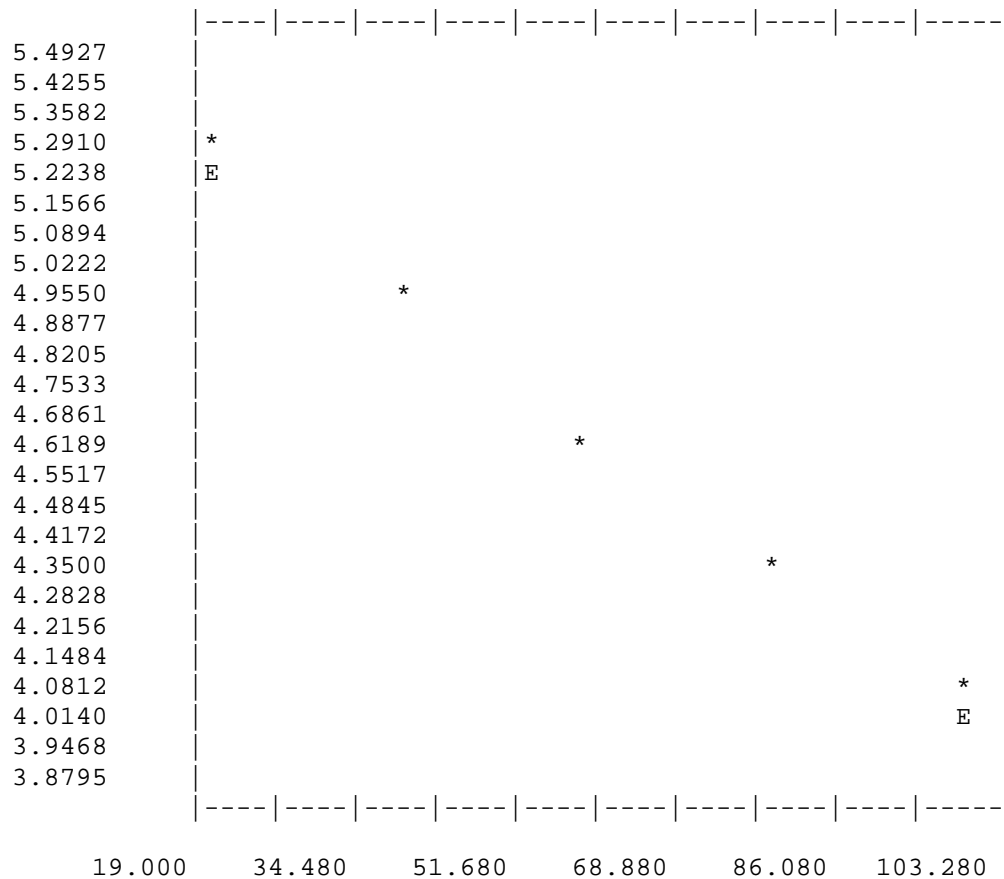
3.29

LIGHT PROFILE ANALYSES - FOR 3/15/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.50517	-0.01492	0.99905	0.99809
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	186.	5.23111	5.20673
2	40.	132.	4.89035	4.90829
3	60.	97.	4.58497	4.60985
4	80.	74.	4.31749	4.31142
5	100.	55.	4.02535	4.01298



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.12

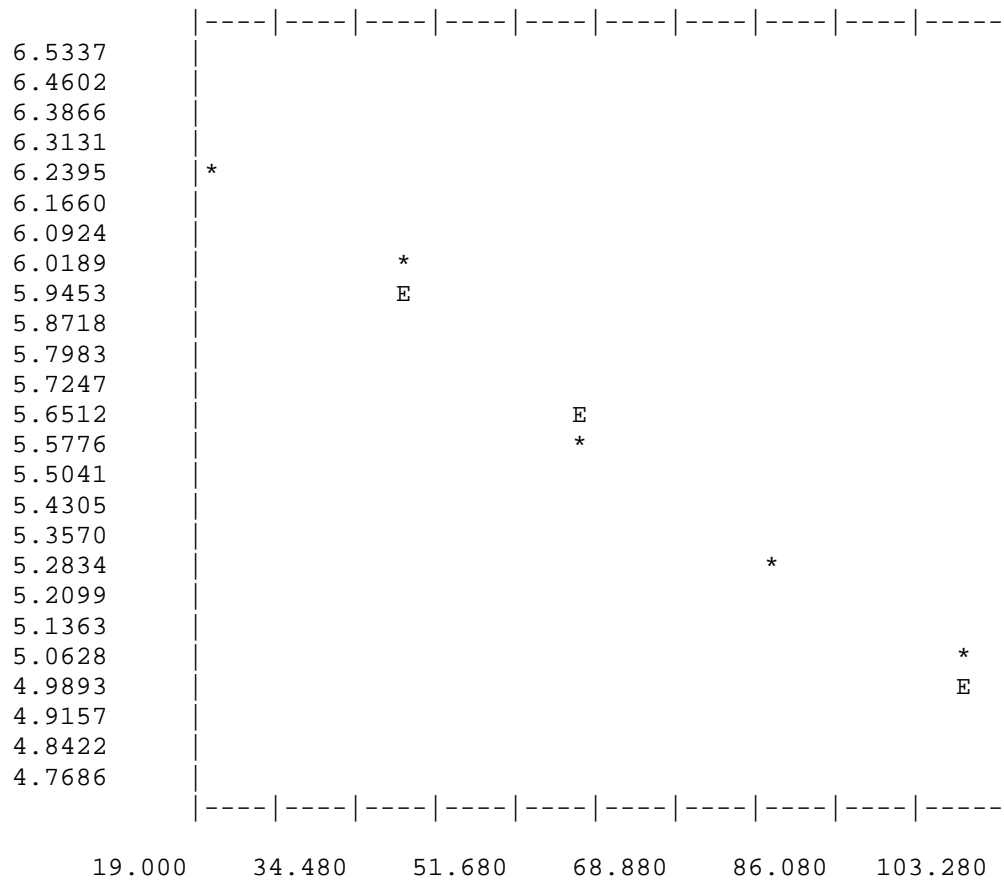
4.11

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.53686	-0.01595	0.99532	0.99066
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	503.	6.22258	6.21792
2	40.	381.	5.94542	5.89898
3	60.	249.	5.52146	5.58005
4	80.	184.	5.22036	5.26111
5	100.	146.	4.99043	4.94218



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.20

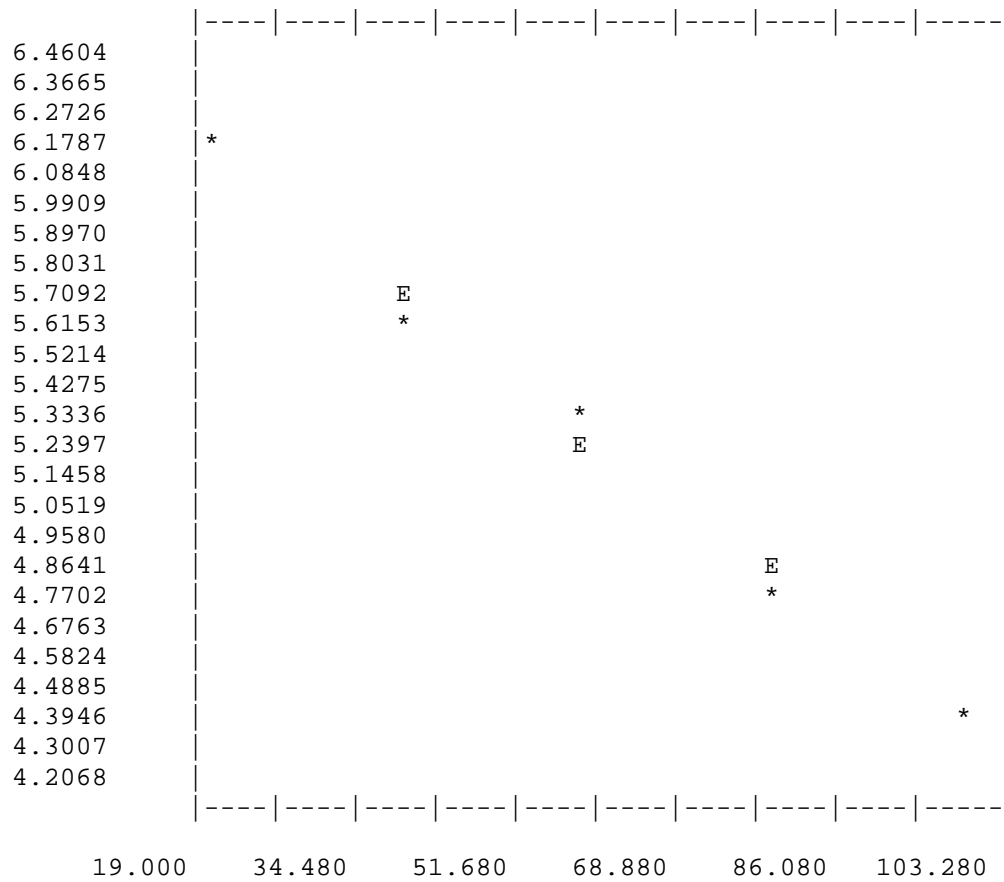
3.85

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.54485	-0.02215	0.99512	0.99027
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	469.	6.15273	6.10176
2	40.	256.	5.54908	5.65867
3	60.	196.	5.28320	5.21558
4	80.	116.	4.76217	4.77249
5	100.	75.	4.33073	4.32940



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.66

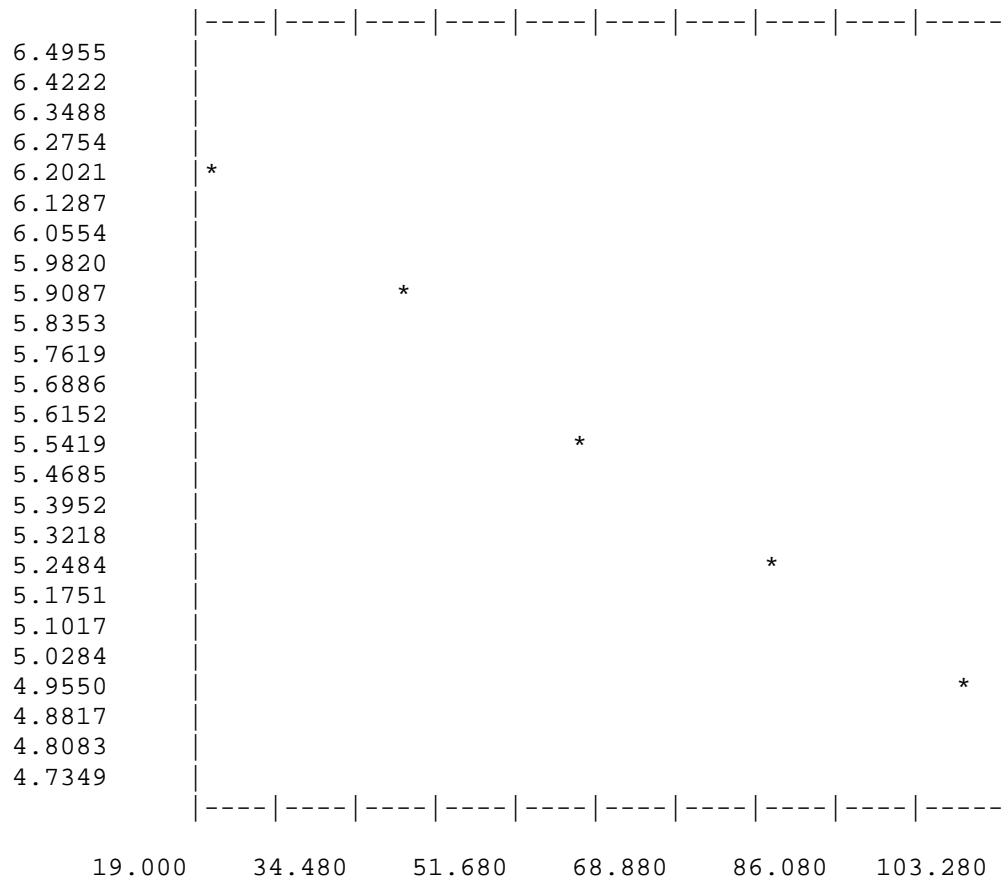
2.77

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.48060	-0.01574	0.99927	0.99853
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	485.	6.18621	6.16586
2	40.	343.	5.84064	5.85113
3	60.	246.	5.50939	5.53639
4	80.	185.	5.22575	5.22166
5	100.	136.	4.91998	4.90692



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.18

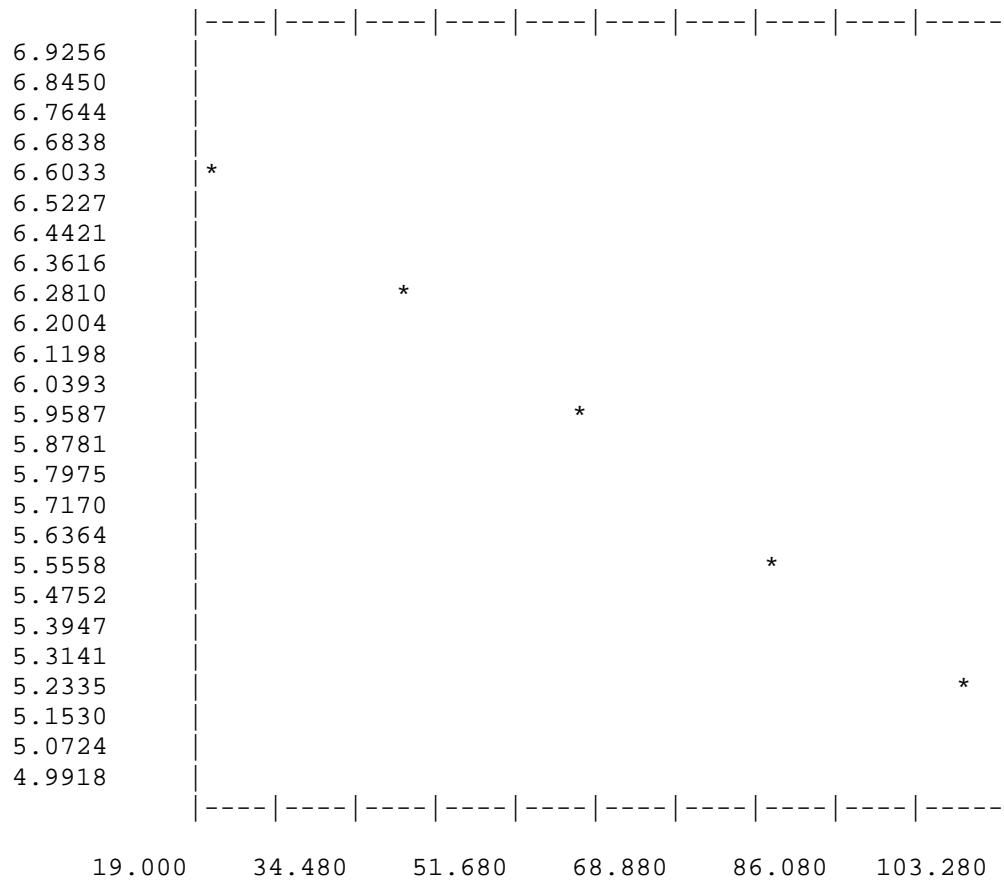
3.90

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.94891	-0.01779	0.99974	0.99949
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	731.	6.59578	6.59307
2	40.	506.	6.22851	6.23723
3	60.	363.	5.89715	5.88140
4	80.	246.	5.50939	5.52556
5	100.	176.	5.17615	5.16972



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.33

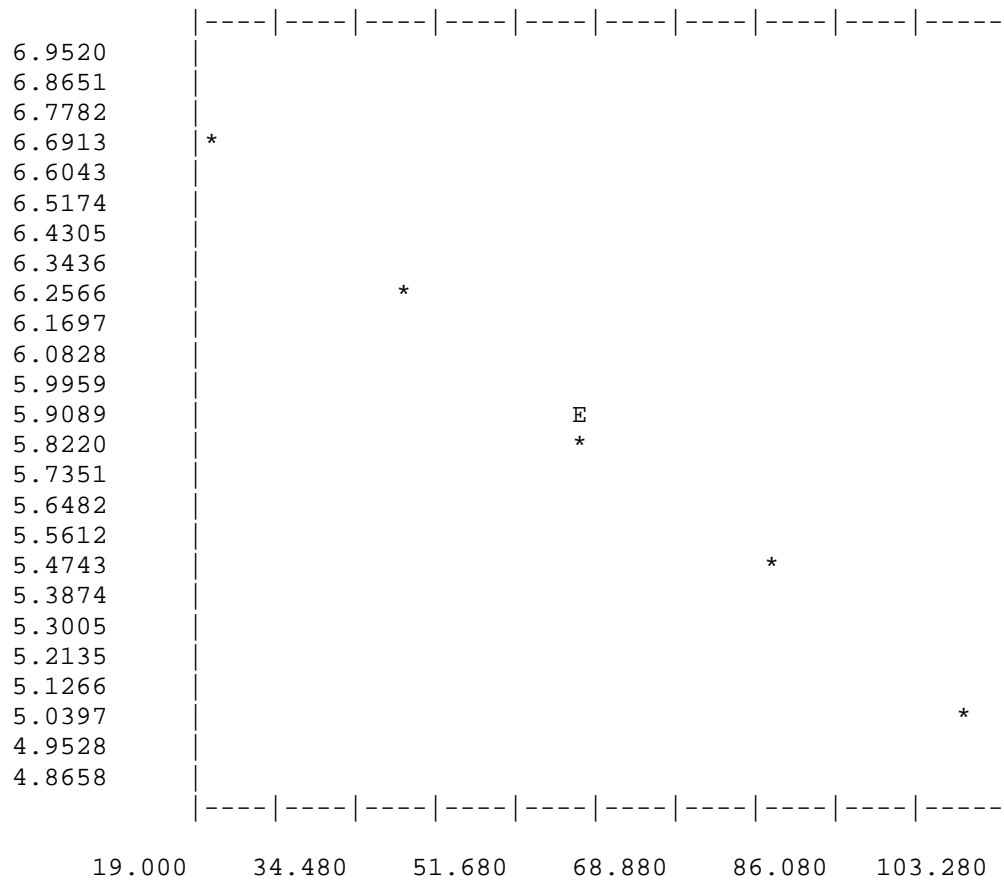
3.45

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.01785	-0.01984	0.99970	0.99940
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	742.	6.61070	6.62100
2	40.	515.	6.24611	6.22415
3	60.	333.	5.81114	5.82729
4	80.	229.	5.43808	5.43044
5	100.	152.	5.03044	5.03358



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.49

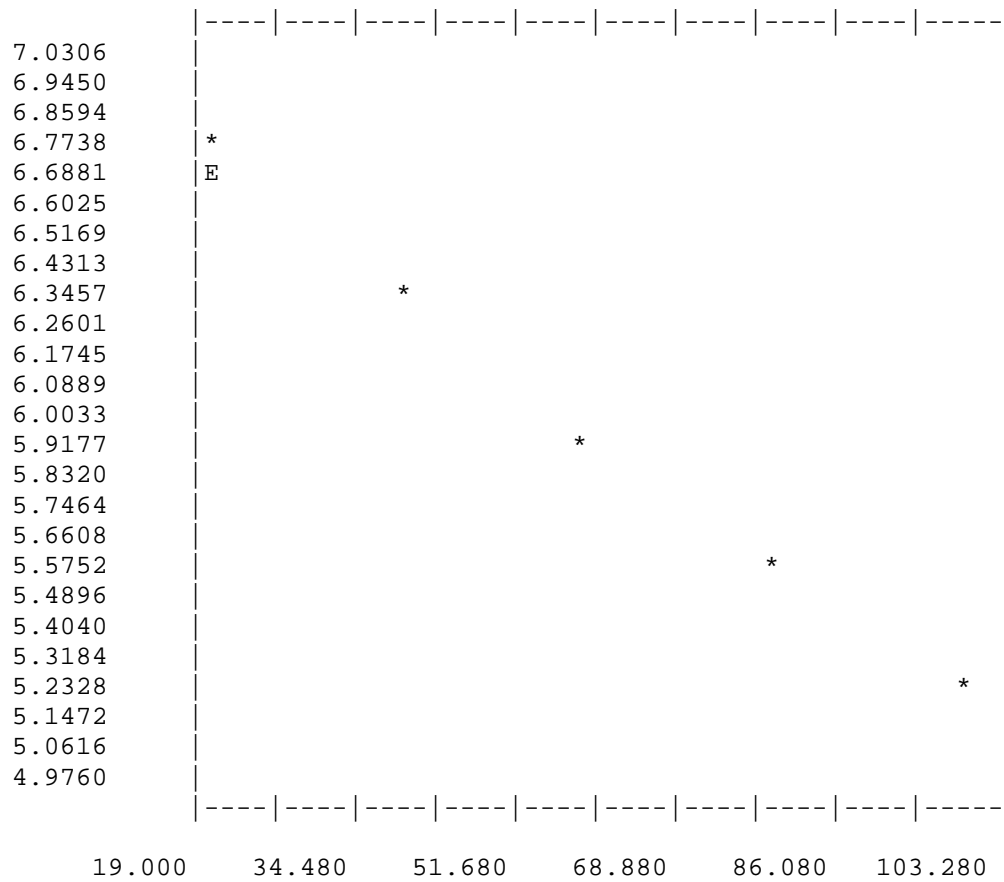
3.09

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.06007	-0.01912	0.99963	0.99927
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	808.	6.69580	6.67761
2	40.	535.	6.28413	6.29514
3	60.	363.	5.89715	5.91267
4	80.	249.	5.52146	5.53020
5	100.	174.	5.16479	5.14773



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.43

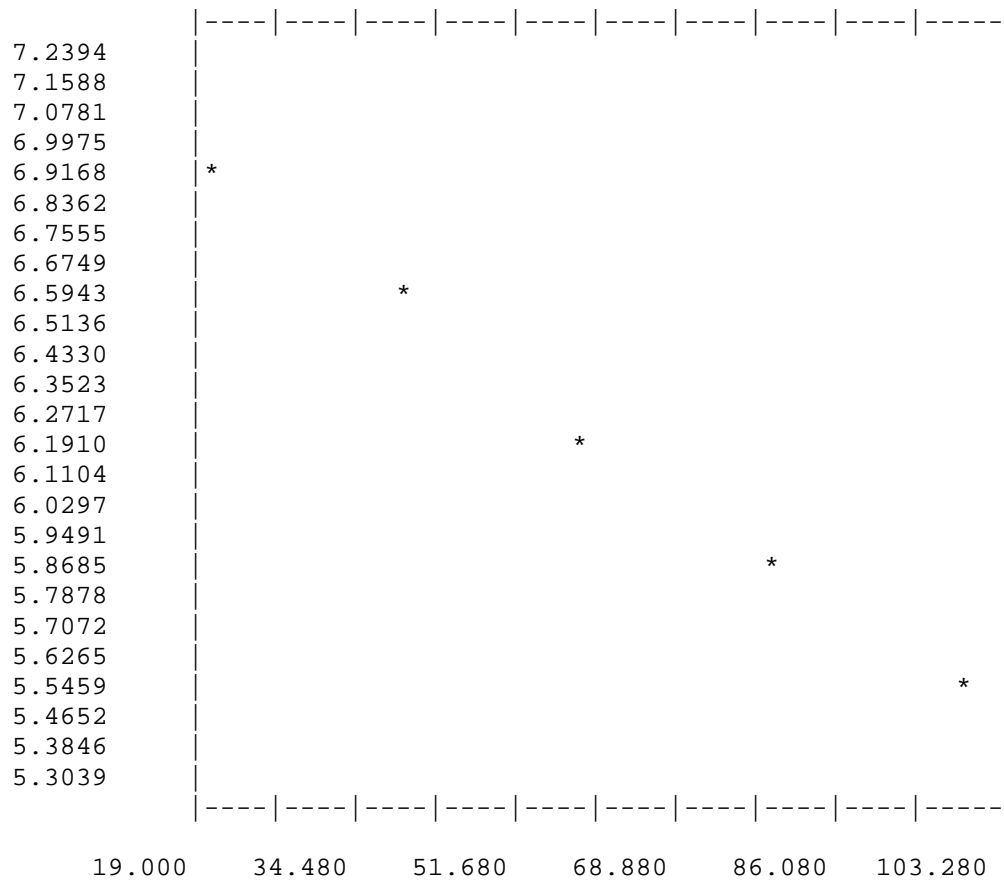
3.21

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.22638	-0.01728	0.99954	0.99909
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	986.	6.89467	6.88075
2	40.	687.	6.53379	6.53512
3	60.	477.	6.16961	6.18948
4	80.	340.	5.83188	5.84385
5	100.	248.	5.51745	5.49821



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.30

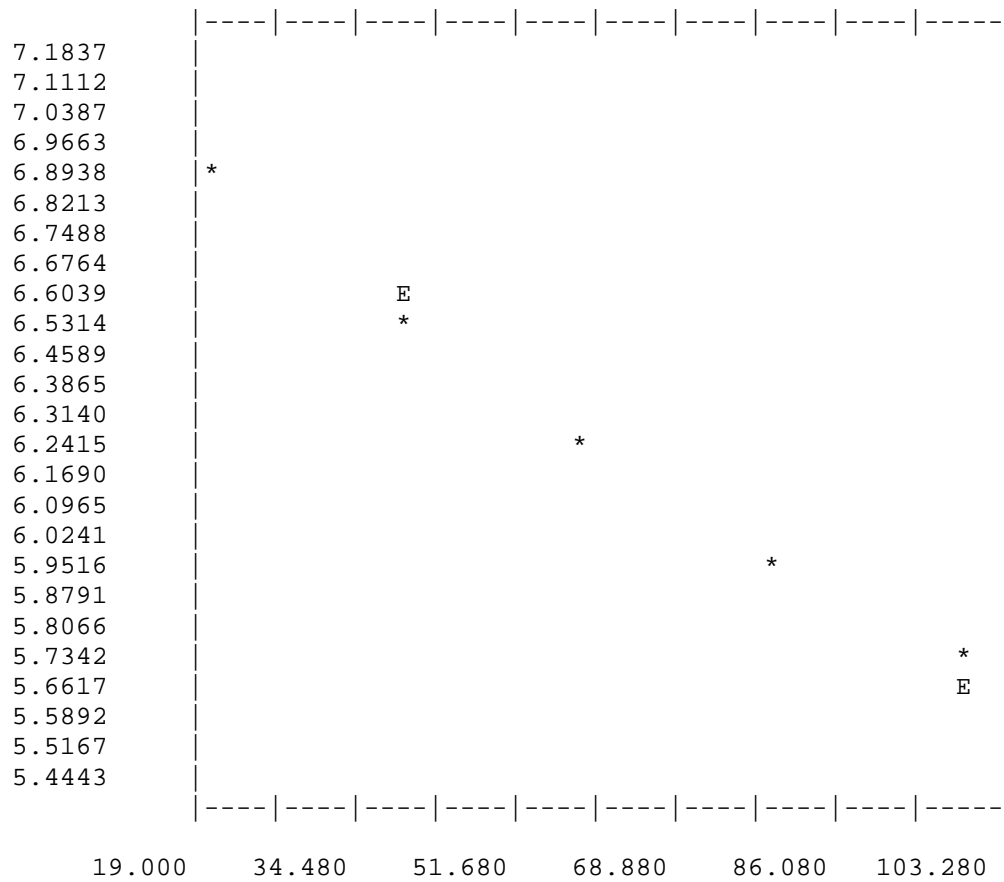
3.55

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.11781	-0.01463	0.99961	0.99922
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	935.	6.84162	6.82515
2	40.	674.	6.51471	6.53249
3	60.	509.	6.23441	6.23982
4	80.	381.	5.94542	5.94716
5	100.	287.	5.66296	5.65450



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.10

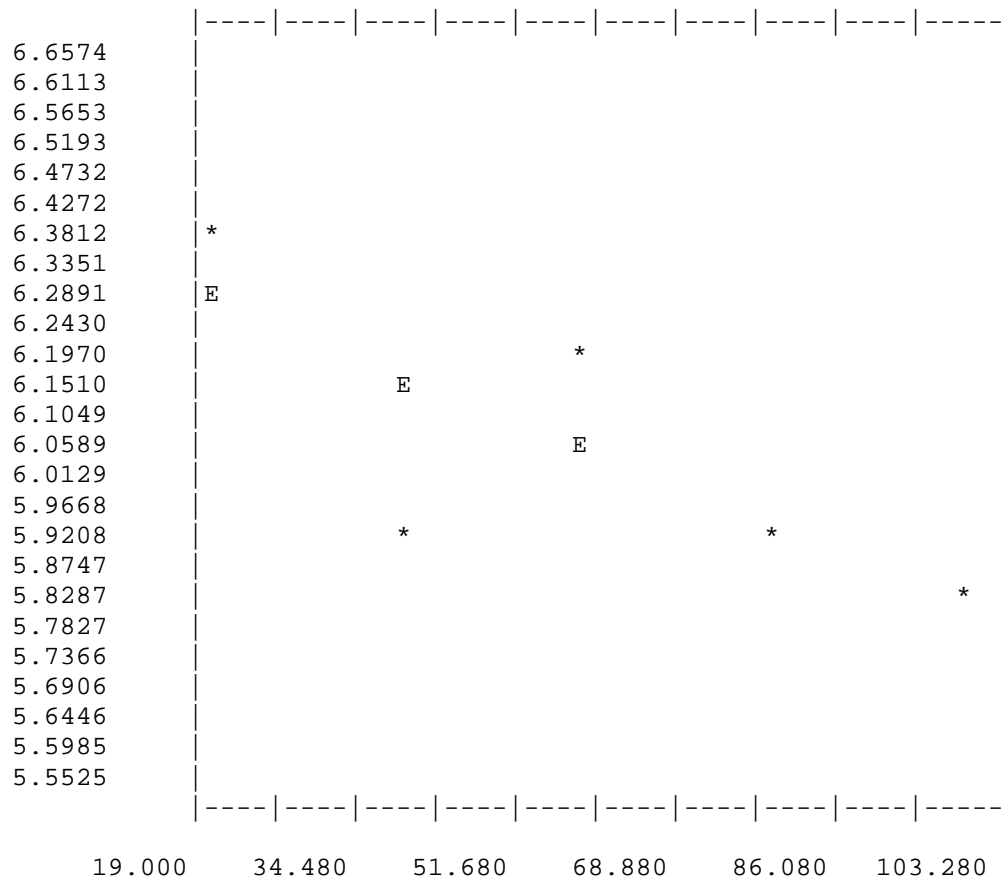
4.20

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.35536	-0.00559	0.78641	0.61844
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	566.	6.34036	6.24354
2	40.	370.	5.91620	6.13172
3	60.	474.	6.16331	6.01990
4	80.	357.	5.88053	5.90808
5	100.	329.	5.79909	5.79626



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.42

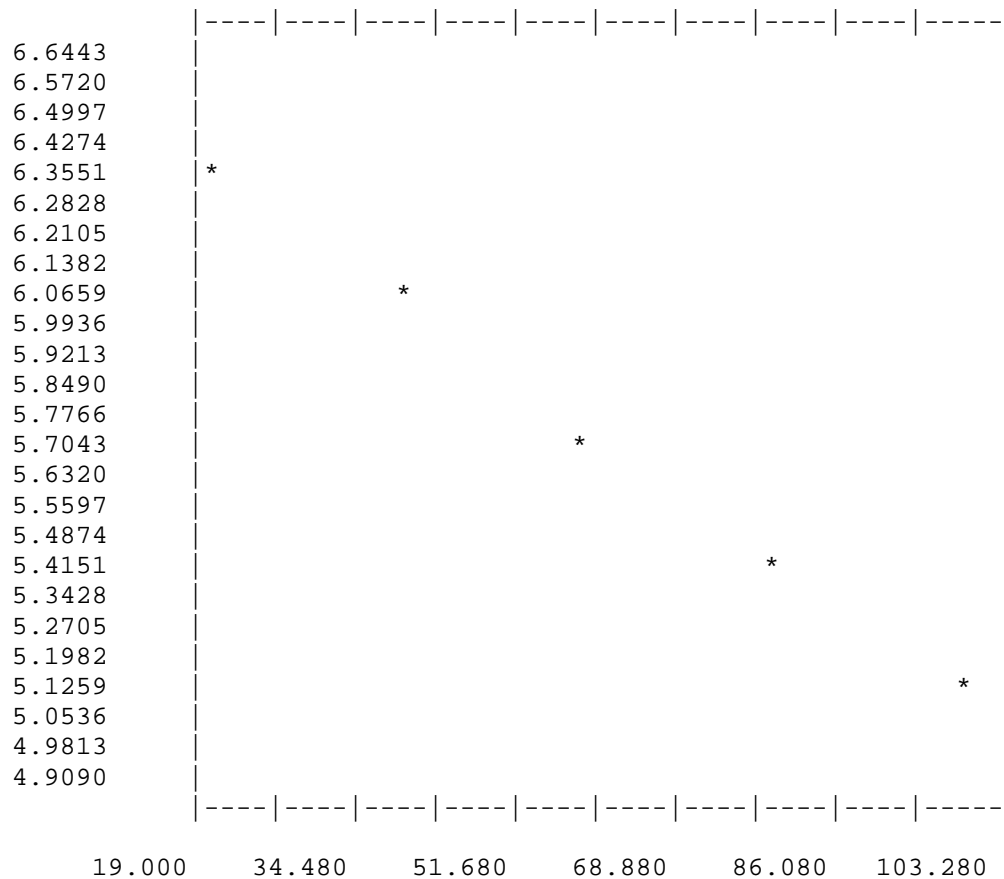
10.98

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.61484	-0.01524	0.99920	0.99840
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	559.	6.32794	6.31012
2	40.	403.	6.00141	6.00539
3	60.	289.	5.66988	5.70067
4	80.	220.	5.39816	5.39594
5	100.	164.	5.10595	5.09122



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.14

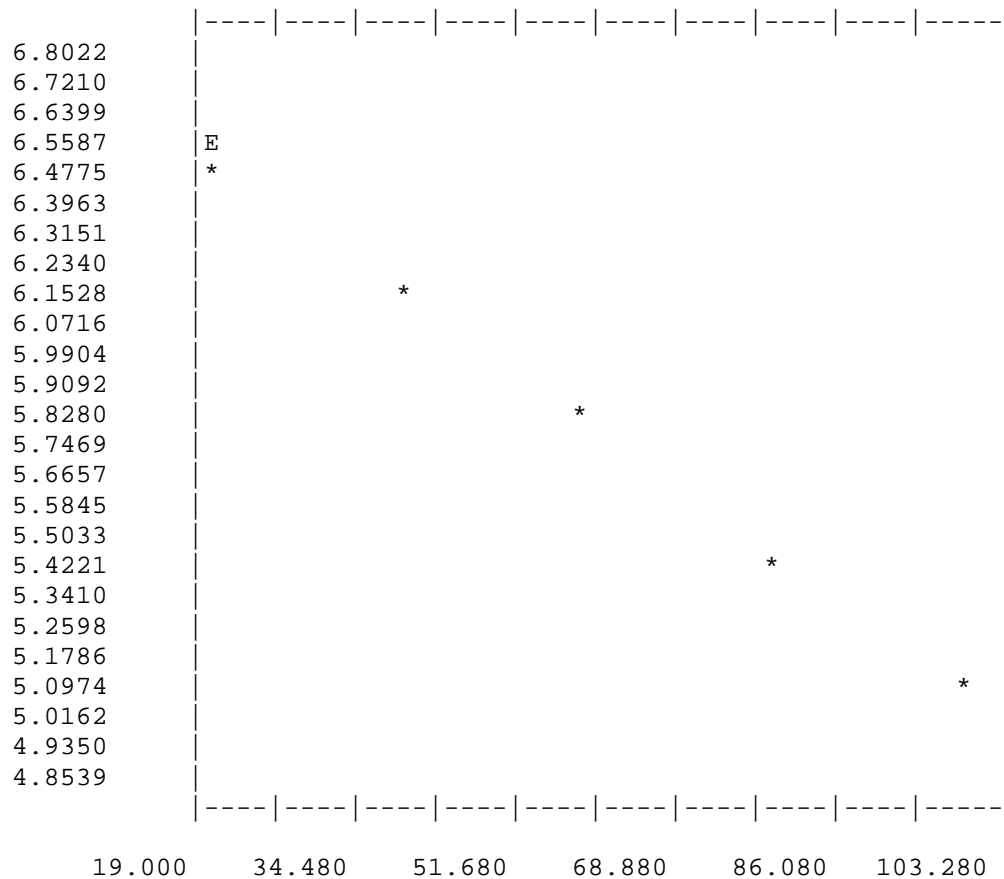
4.03

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.84065	-0.01812	0.99904	0.99807
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	633.	6.45205	6.47831
2	40.	462.	6.13773	6.11597
3	60.	324.	5.78383	5.75362
4	80.	214.	5.37064	5.39128
5	100.	151.	5.02388	5.02894



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.36

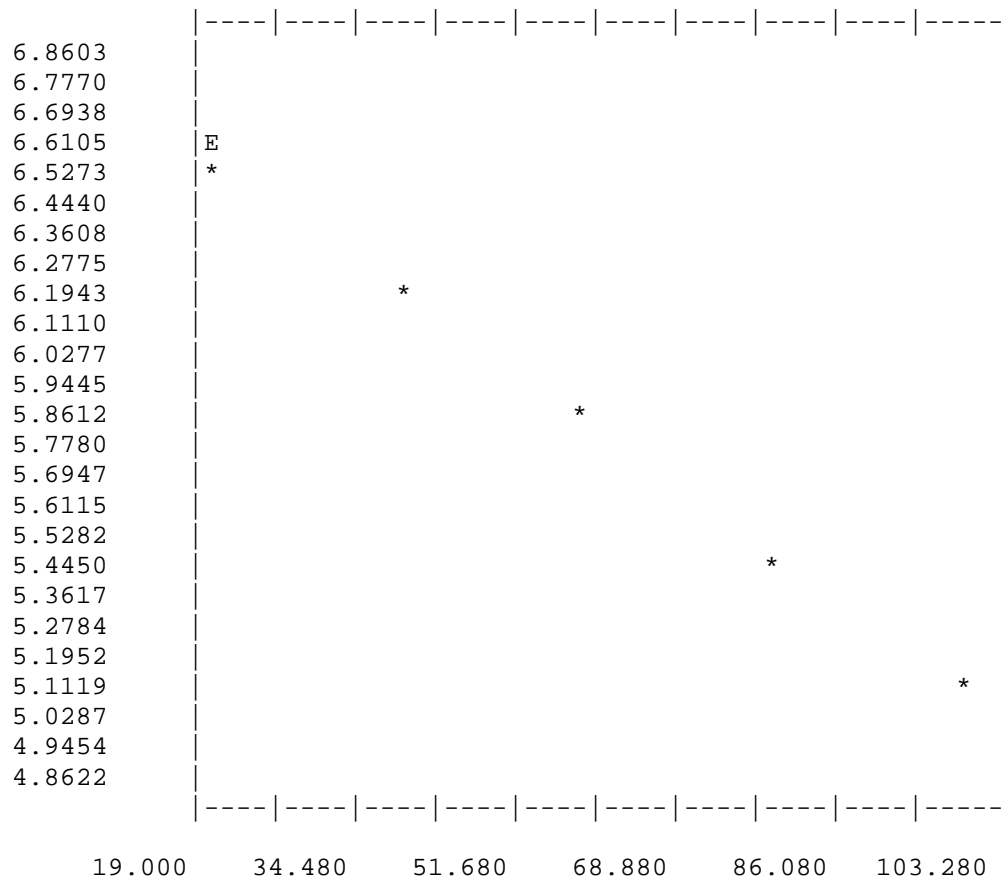
3.39

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.90618	-0.01863	0.99973	0.99946
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	676.	6.51767	6.53362
2	40.	478.	6.17170	6.16106
3	60.	330.	5.80212	5.78849
4	80.	225.	5.42054	5.41593
5	100.	152.	5.03044	5.04337



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

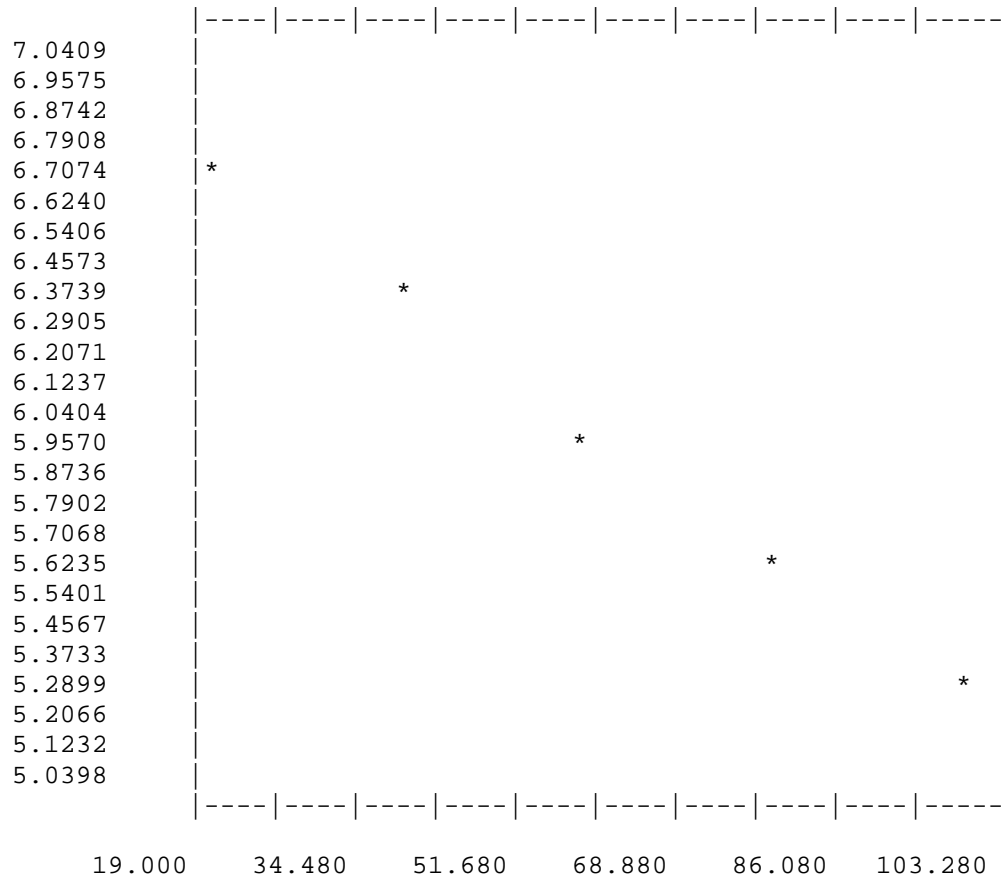
3.30

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.04319	-0.01826	0.99897	0.99794
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	816.	6.70564	6.67800
2	40.	541.	6.29527	6.31282
3	60.	375.	5.92959	5.94764
4	80.	259.	5.56068	5.58246
5	100.	189.	5.24702	5.21728



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.37

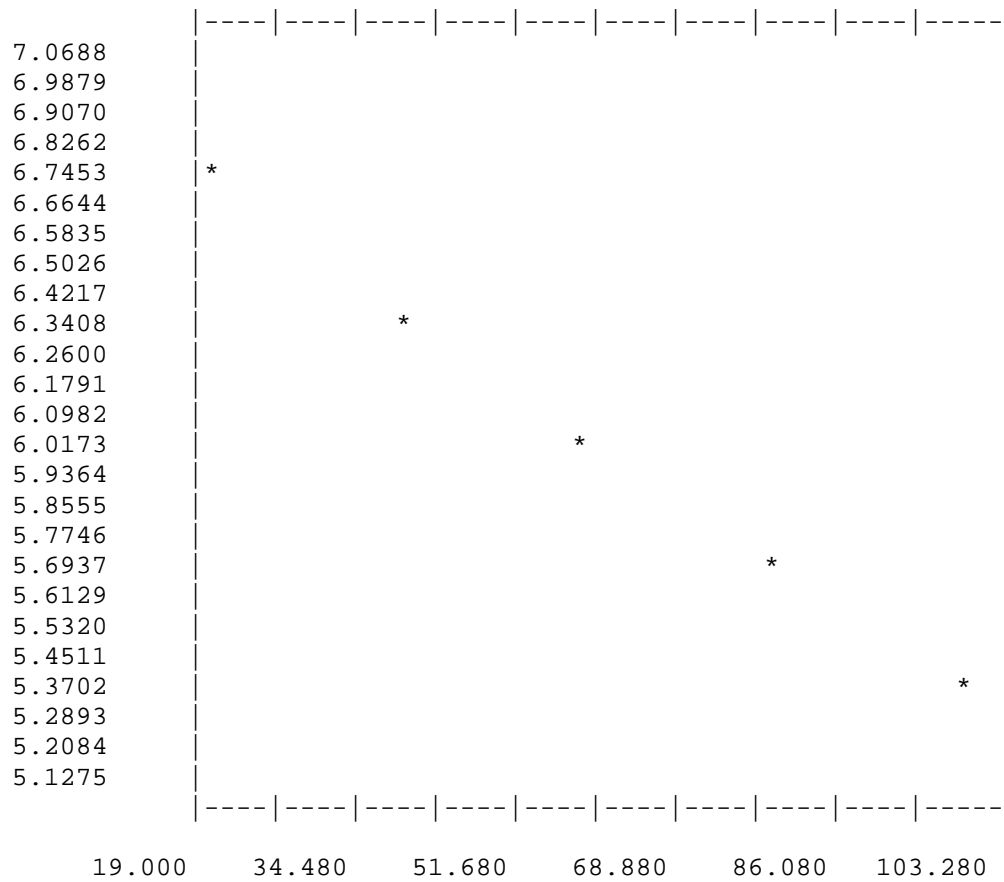
3.36

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.02287	-0.01711	0.99604	0.99209
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	838.	6.73221	6.68075
2	40.	527.	6.26910	6.33863
3	60.	407.	6.01127	5.99651
4	80.	277.	5.62762	5.65438
5	100.	208.	5.34233	5.31226



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.28

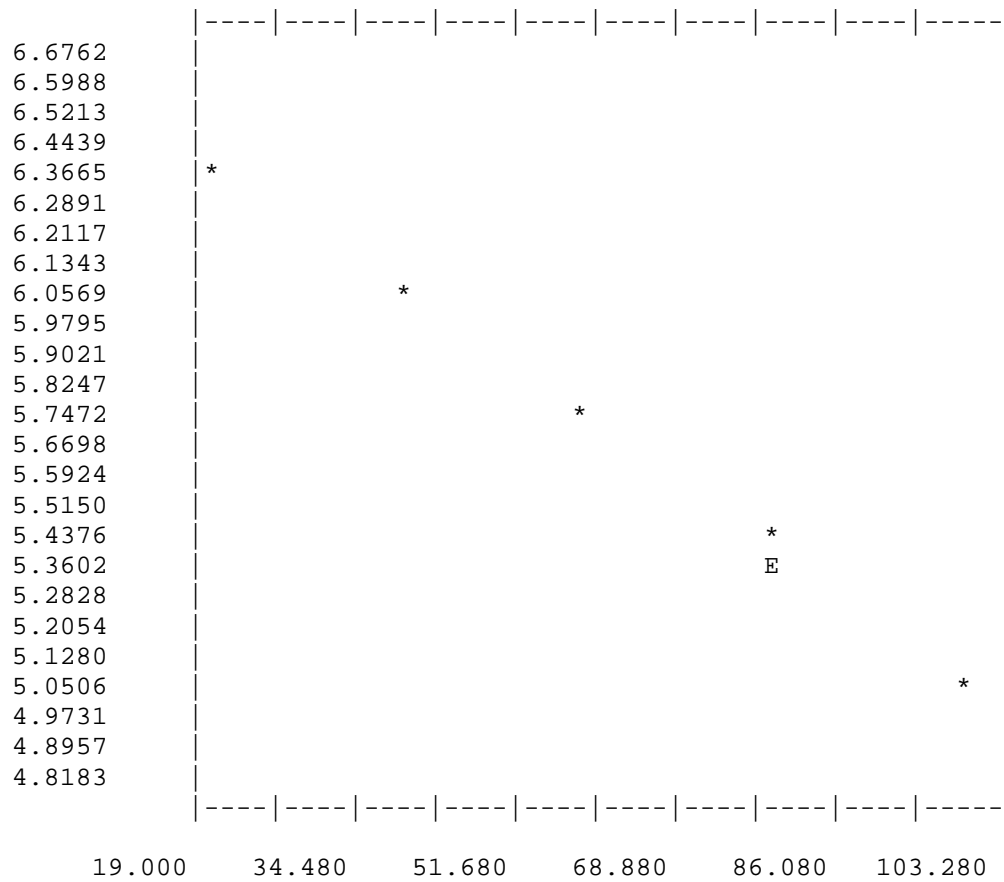
3.59

LIGHT PROFILE ANALYSES - FOR 4/27/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.69526	-0.01685	0.99957	0.99914
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	571.	6.34914	6.35825
2	40.	410.	6.01859	6.02125
3	60.	297.	5.69709	5.68425
4	80.	213.	5.36598	5.34724
5	100.	146.	4.99043	5.01024



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.26

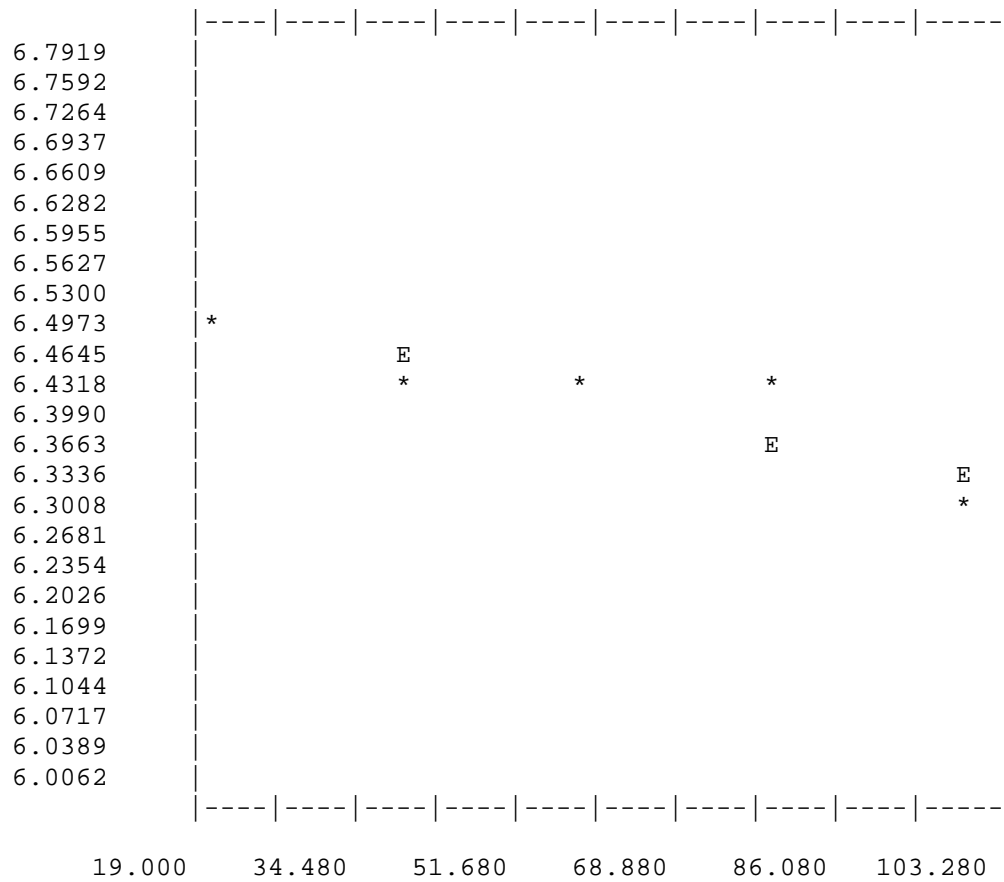
3.64

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.50279	-0.00172	0.80799	0.65285
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	643.	6.46770	6.46846
2	40.	602.	6.40192	6.43414
3	60.	615.	6.42325	6.39982
4	80.	612.	6.41837	6.36549
5	100.	537.	6.28786	6.33117



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.13

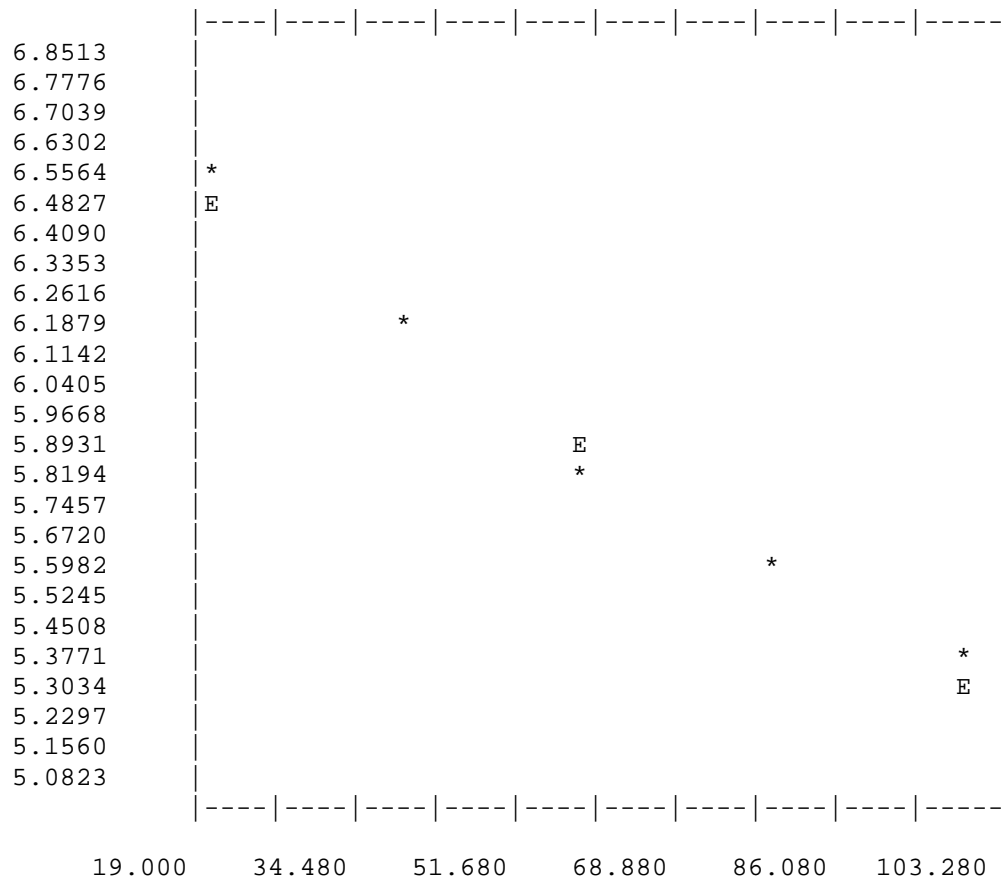
35.78

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.75624	-0.01484	0.98677	0.97371
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	681.	6.52503	6.45943
2	40.	472.	6.15910	6.16262
3	60.	315.	5.75574	5.86581
4	80.	253.	5.53733	5.56900
5	100.	210.	5.35186	5.27219



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.11

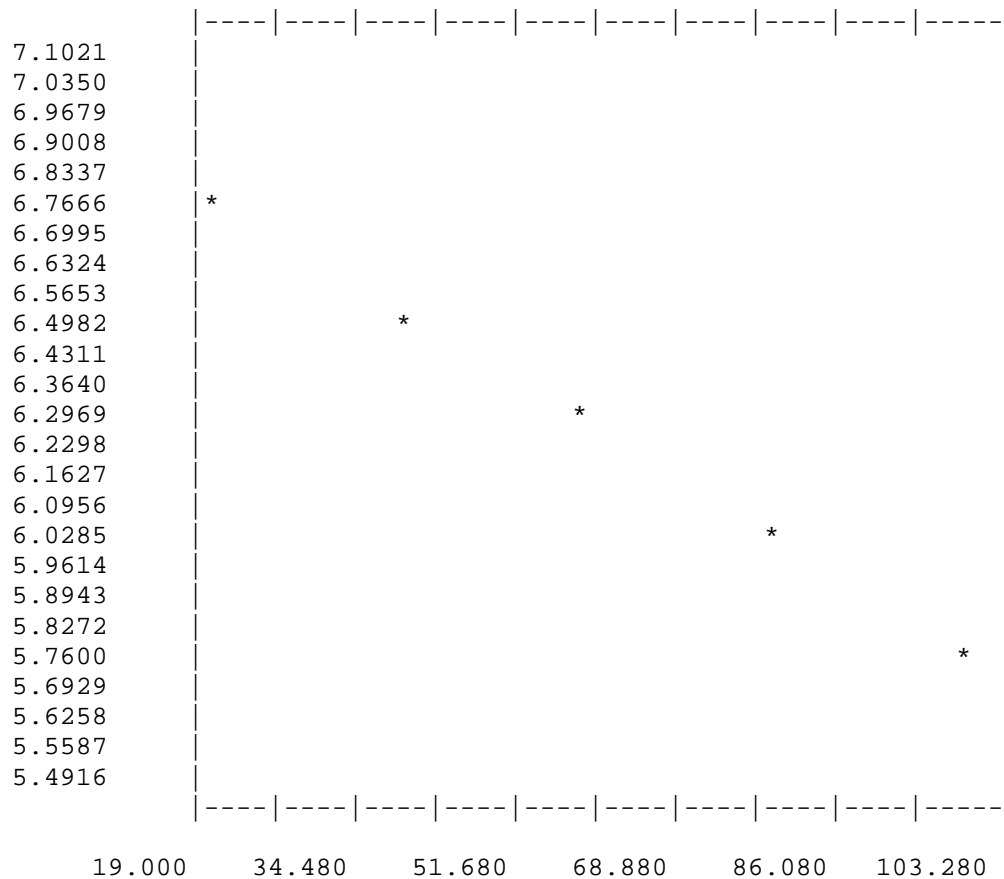
4.14

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.01712	-0.01307	0.99972	0.99943
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	865.	6.76389	6.75570
2	40.	650.	6.47851	6.49429
3	60.	512.	6.24028	6.23287
4	80.	391.	5.97126	5.97146
5	100.	301.	5.71043	5.71004



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.98

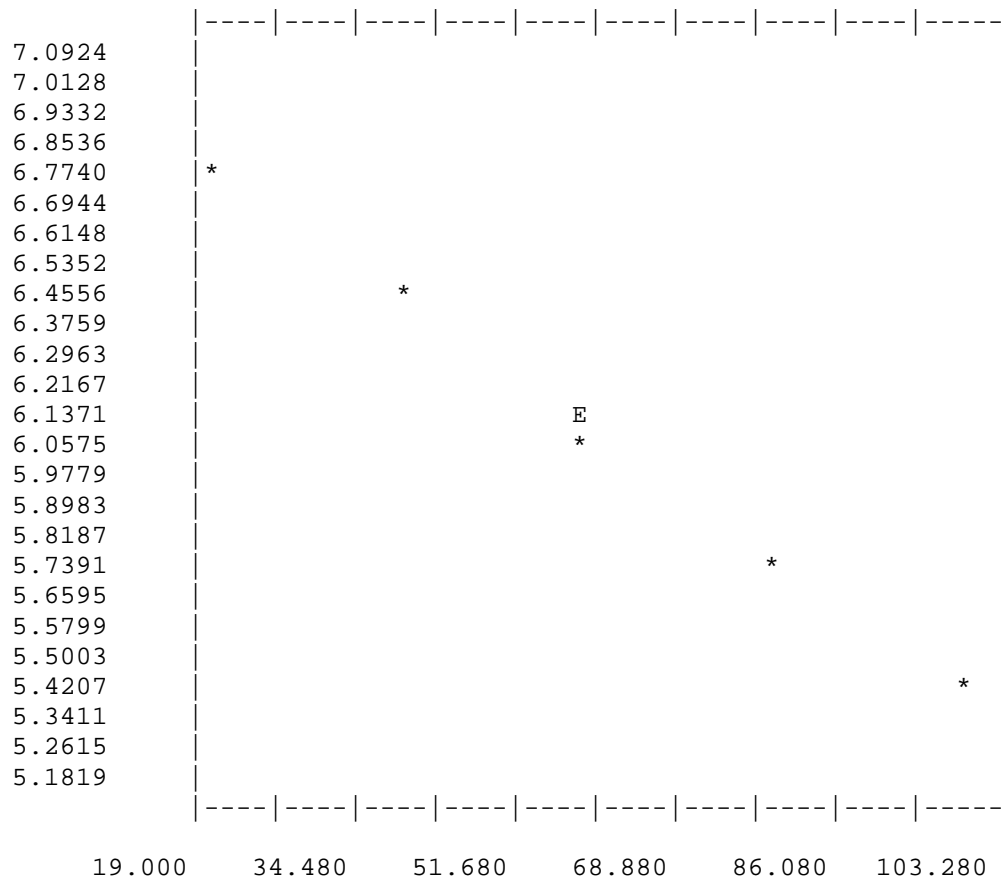
4.70

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.10062	-0.01730	0.99842	0.99683
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	848.	6.74406	6.75465
2	40.	631.	6.44889	6.40869
3	60.	410.	6.01859	6.06273
4	80.	306.	5.72685	5.71677
5	100.	215.	5.37528	5.37081



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.30

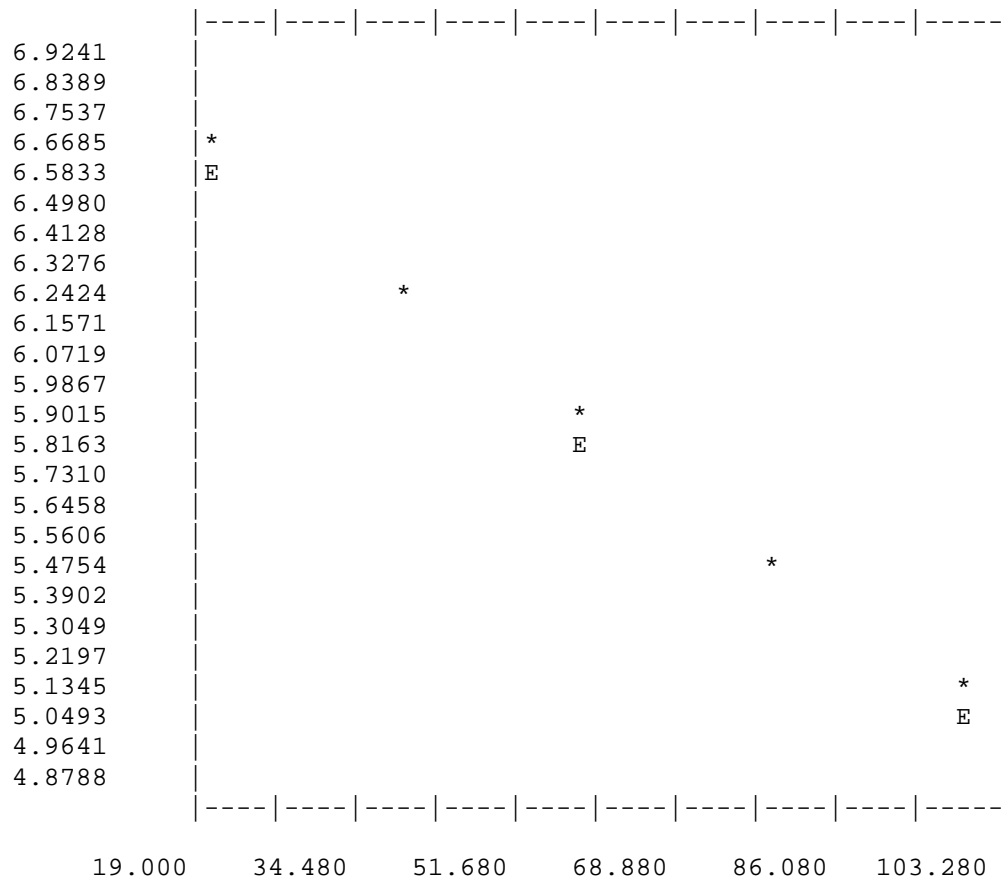
3.55

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.96396	-0.01918	0.99965	0.99929
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	730.	6.59441	6.58035
2	40.	480.	6.17587	6.19674
3	60.	337.	5.82305	5.81313
4	80.	224.	5.41610	5.42952
5	100.	156.	5.05625	5.04592



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.44

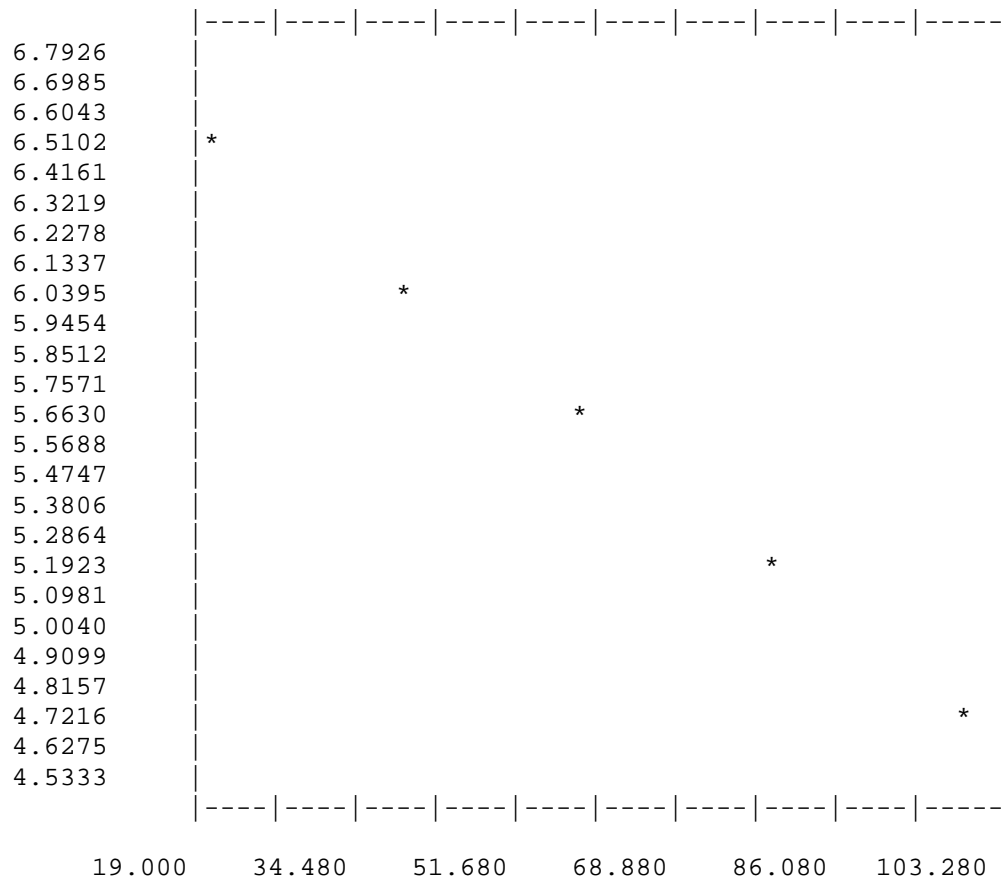
3.20

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.91300	-0.02219	0.99961	0.99922
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	632.	6.45047	6.46915
2	40.	415.	6.03069	6.02530
3	60.	271.	5.60580	5.58146
4	80.	171.	5.14749	5.13761
5	100.	106.	4.67283	4.69376



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.66

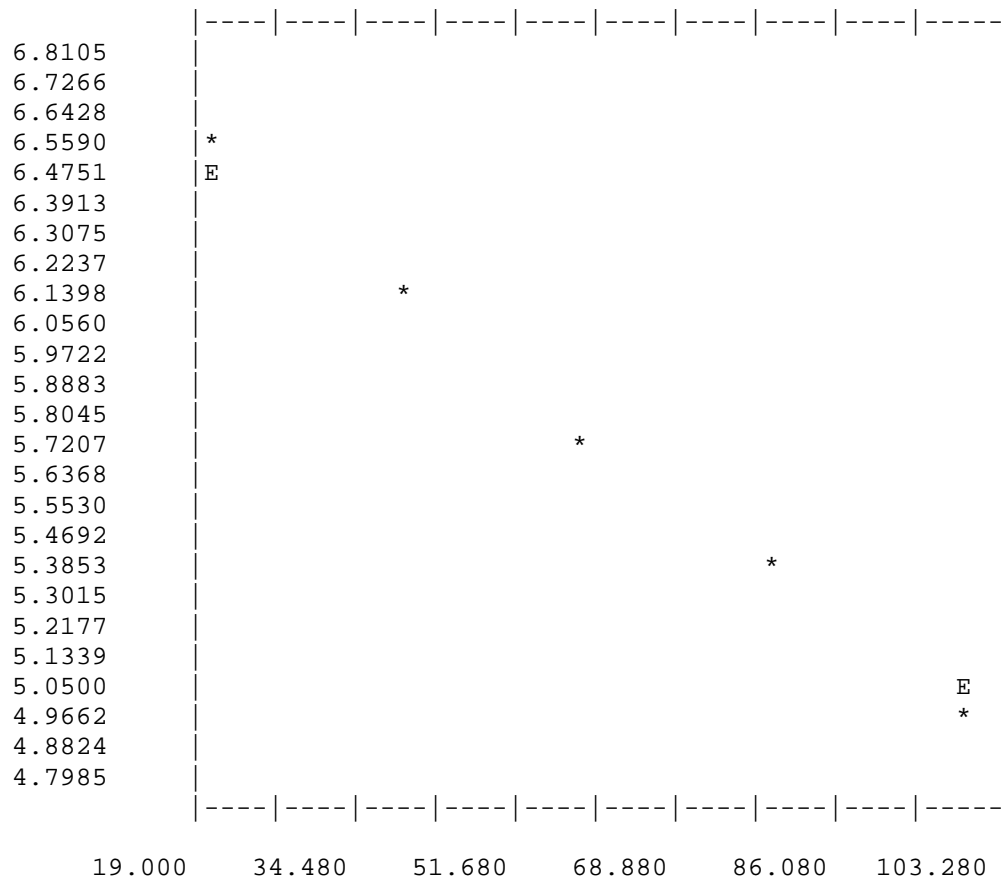
2.77

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.83850	-0.01872	0.99924	0.99849
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	655.	6.48616	6.46406
2	40.	429.	6.06379	6.08962
3	60.	297.	5.69709	5.71517
4	80.	213.	5.36598	5.34073
5	100.	142.	4.96284	4.96628



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

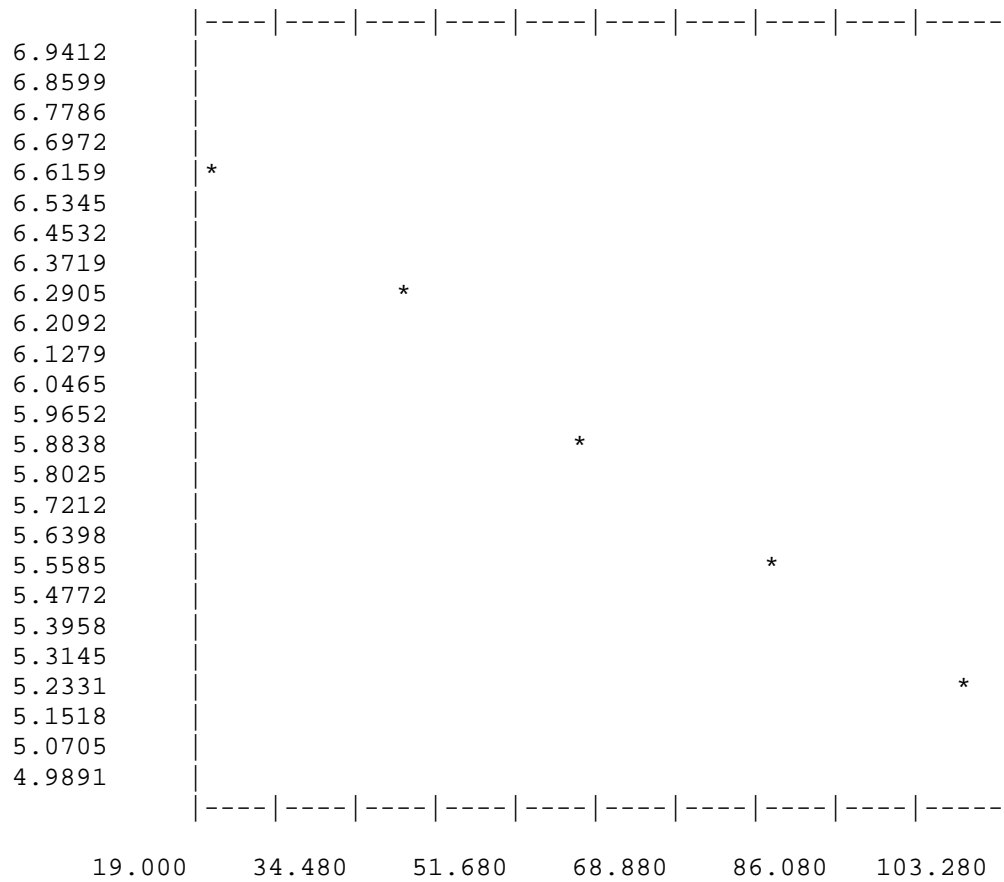
3.28

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.92950	-0.01763	0.99817	0.99634
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	742.	6.61070	6.57682
2	40.	497.	6.21060	6.22414
3	60.	341.	5.83481	5.87146
4	80.	243.	5.49717	5.51877
5	100.	181.	5.20401	5.16609



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.32

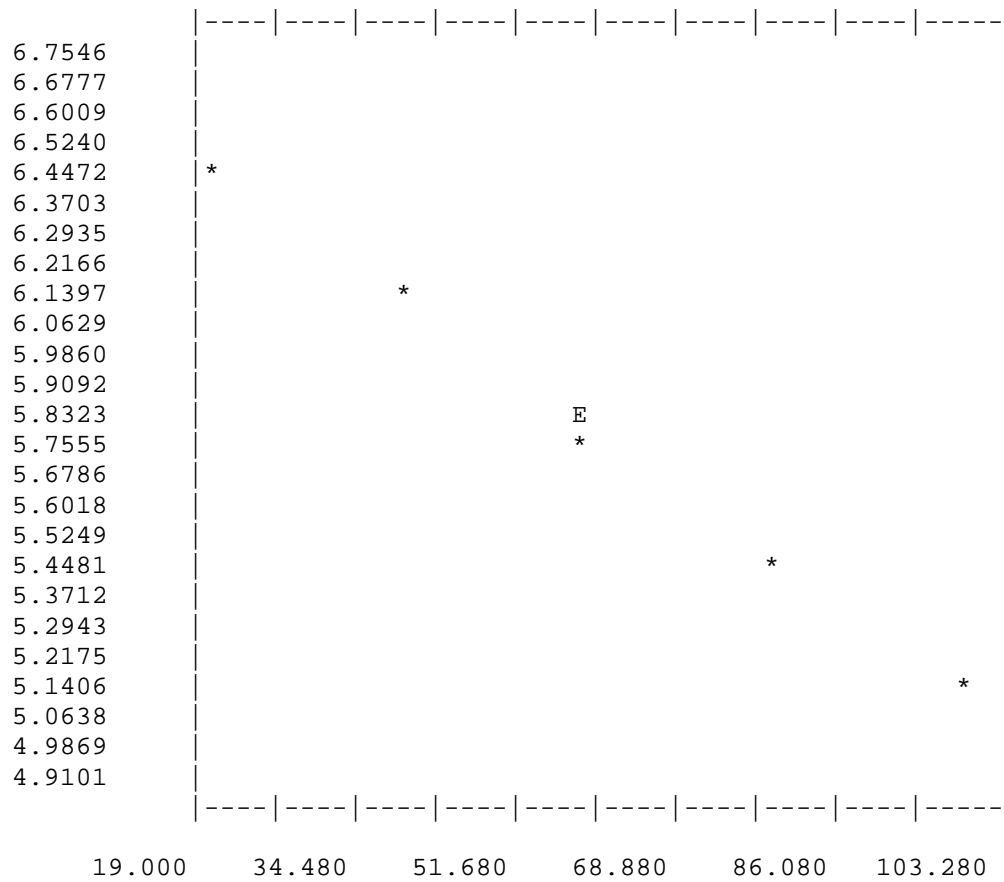
3.48

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.76184	-0.01672	0.99991	0.99983
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	621.	6.43294	6.42747
2	40.	439.	6.08677	6.09309
3	60.	314.	5.75257	5.75872
4	80.	228.	5.43372	5.42435
5	100.	161.	5.08760	5.08997



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.25

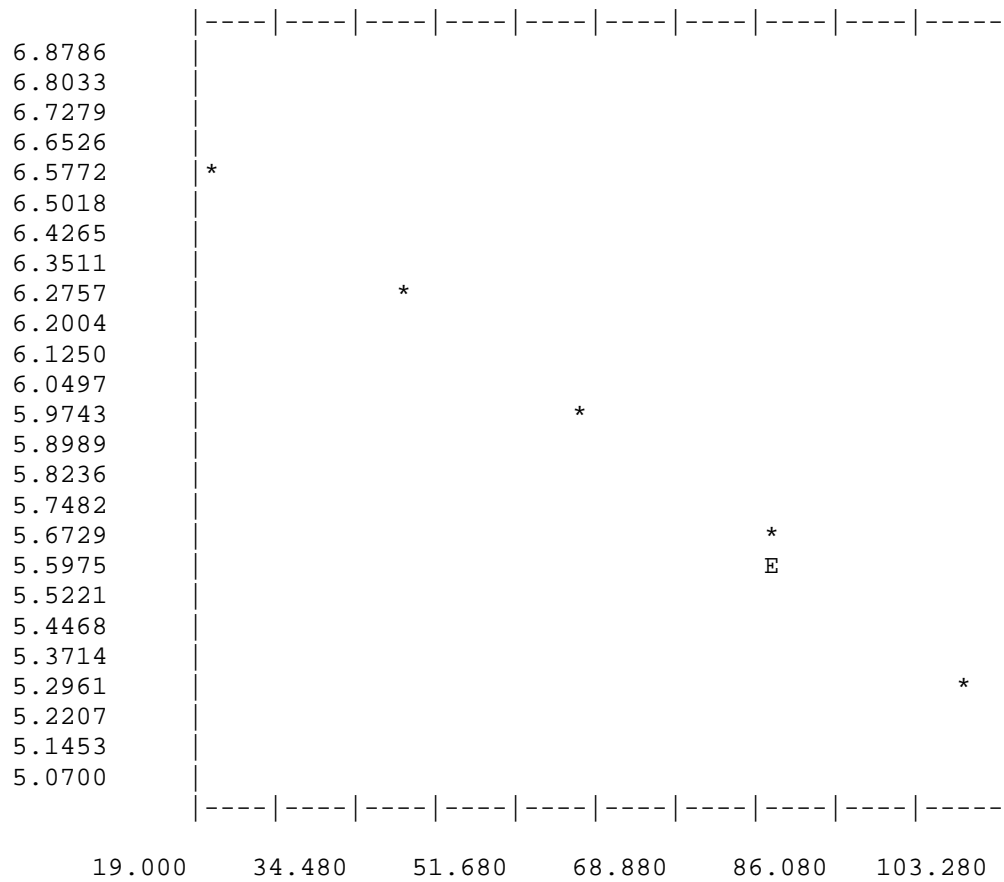
3.67

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.86585	-0.01585	0.99896	0.99792
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	699.	6.55108	6.54875
2	40.	501.	6.21860	6.23165
3	60.	368.	5.91080	5.91455
4	80.	279.	5.63479	5.59745
5	100.	191.	5.25750	5.28036



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.19

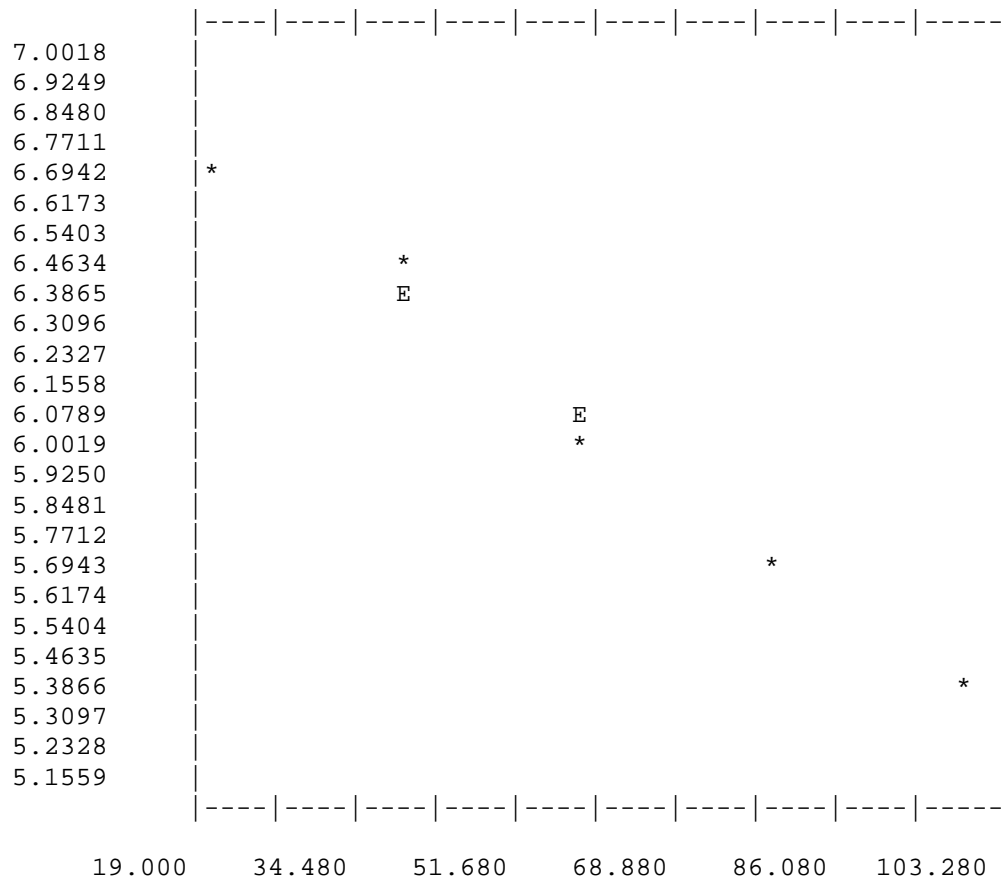
3.87

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.99897	-0.01653	0.99728	0.99456
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	757.	6.63068	6.66843
2	40.	601.	6.40026	6.33788
3	60.	403.	6.00141	6.00734
4	80.	284.	5.65249	5.67680
5	100.	210.	5.35186	5.34626



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.24

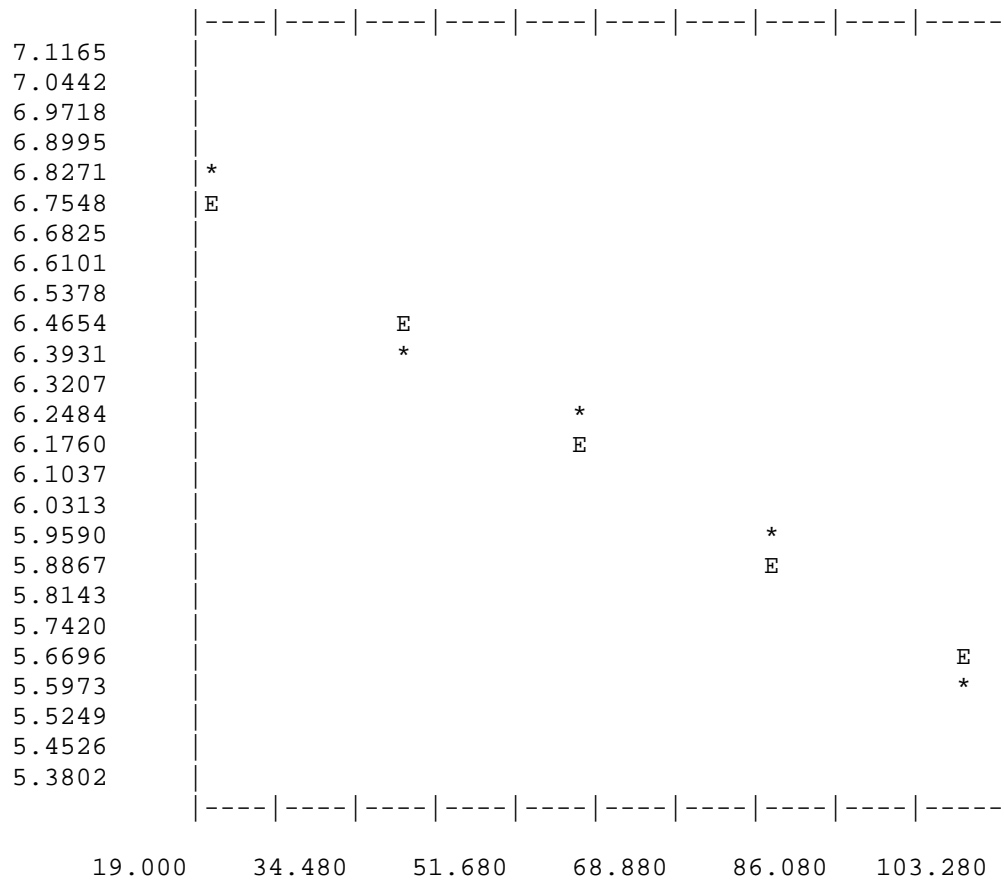
3.72

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.00269	-0.01397	0.98881	0.97775
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	877.	6.77765	6.72326
2	40.	563.	6.33505	6.44383
3	60.	492.	6.20051	6.16441
4	80.	372.	5.92158	5.88498
5	100.	266.	5.58725	5.60555



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.05

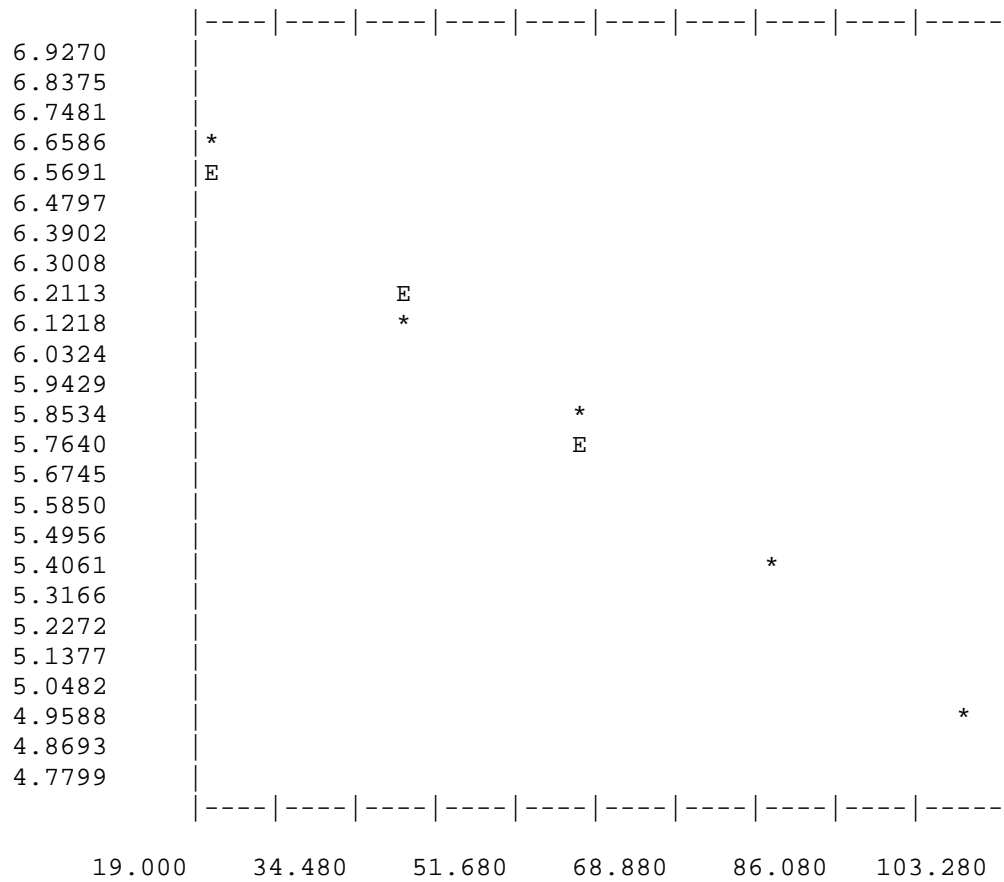
4.39

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.96750	-0.02030	0.99738	0.99476
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	732.	6.59715	6.56145
2	40.	437.	6.08222	6.15540
3	60.	327.	5.79301	5.74935
4	80.	206.	5.33272	5.34330
5	100.	139.	4.94164	4.93725



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.52

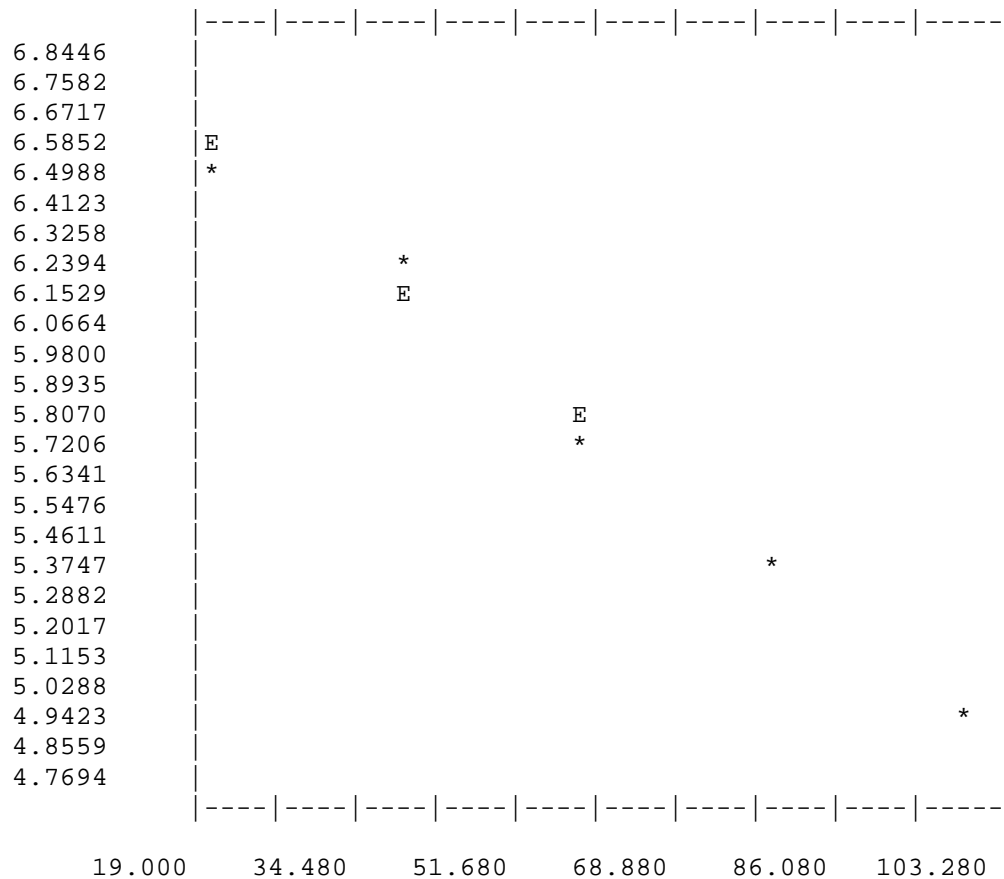
3.02

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.91604	-0.01987	0.99905	0.99811
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	663.	6.49828	6.51871
2	40.	474.	6.16331	6.12138
3	60.	302.	5.71373	5.72405
4	80.	200.	5.30330	5.32673
5	100.	139.	4.94164	4.92940



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.49

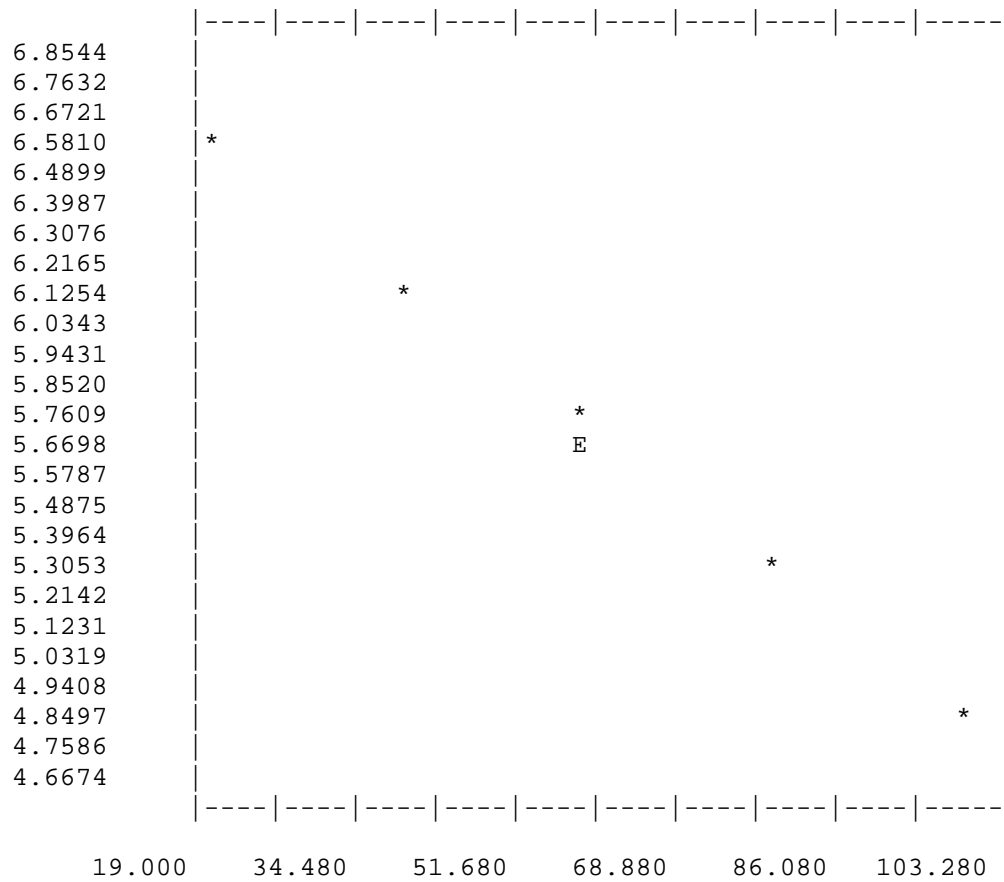
3.09

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.94775	-0.02131	0.99990	0.99980
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	683.	6.52796	6.52164
2	40.	437.	6.08222	6.09553
3	60.	292.	5.68017	5.66941
4	80.	187.	5.23644	5.24330
5	100.	123.	4.82028	4.81719



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.60

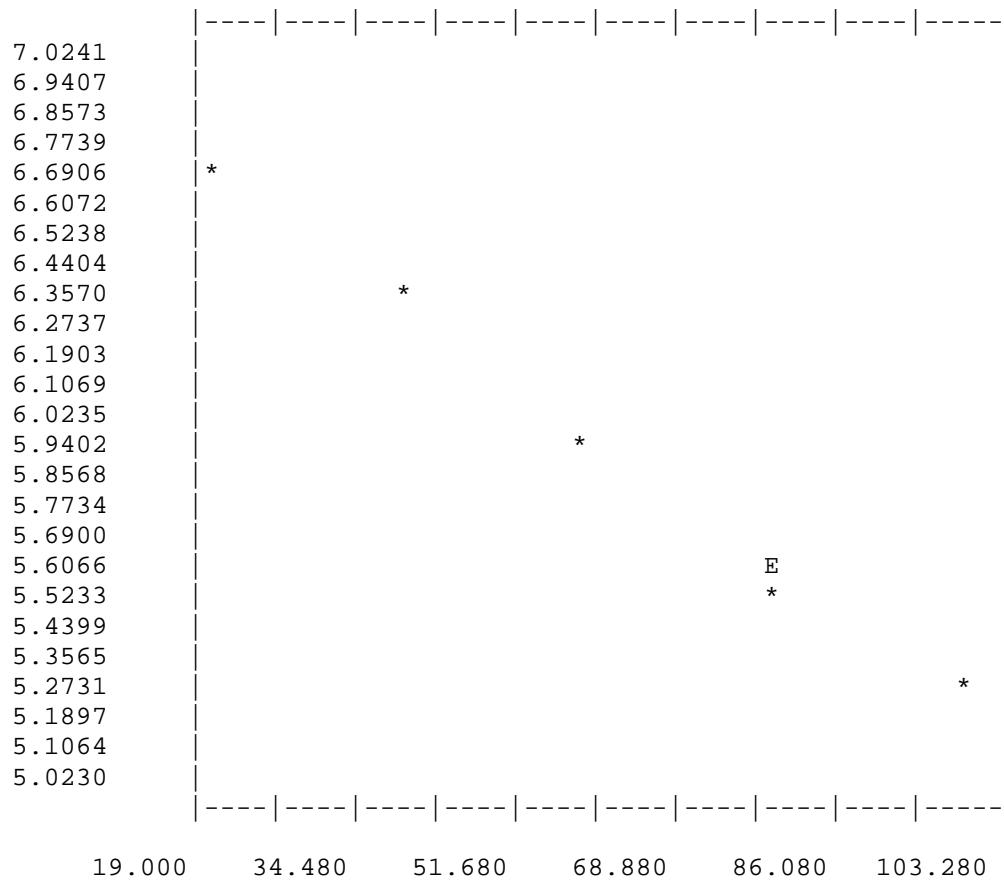
2.88

LIGHT PROFILE ANALYSES - FOR 5/29/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	7.04465	-0.01845	0.99573	0.99148
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	803.	6.68960	6.67564
2	40.	570.	6.34739	6.30663
3	60.	354.	5.87212	5.93761
4	80.	249.	5.52146	5.56860
5	100.	191.	5.25750	5.19958



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.38

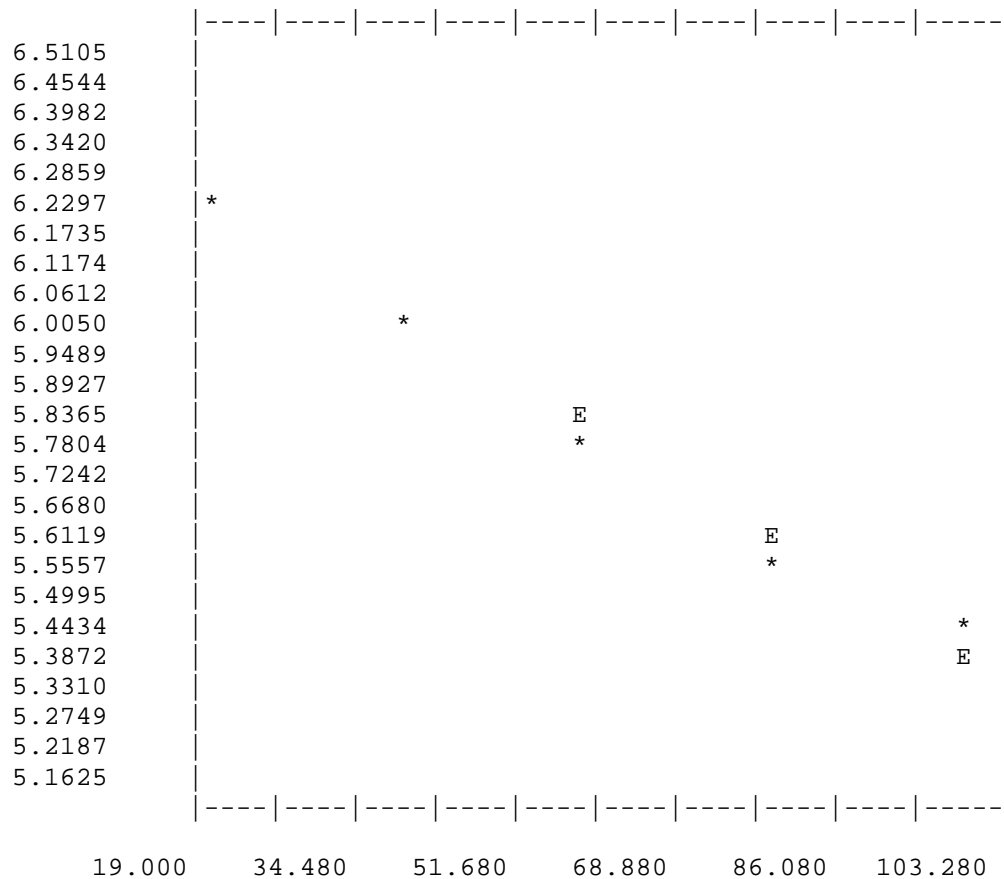
3.33

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.39015	-0.01015	0.99506	0.99015
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	492.	6.20051	6.18714
2	40.	403.	6.00141	5.98414
3	60.	311.	5.74300	5.78113
4	80.	256.	5.54908	5.57812
5	100.	223.	5.41165	5.37512



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.76

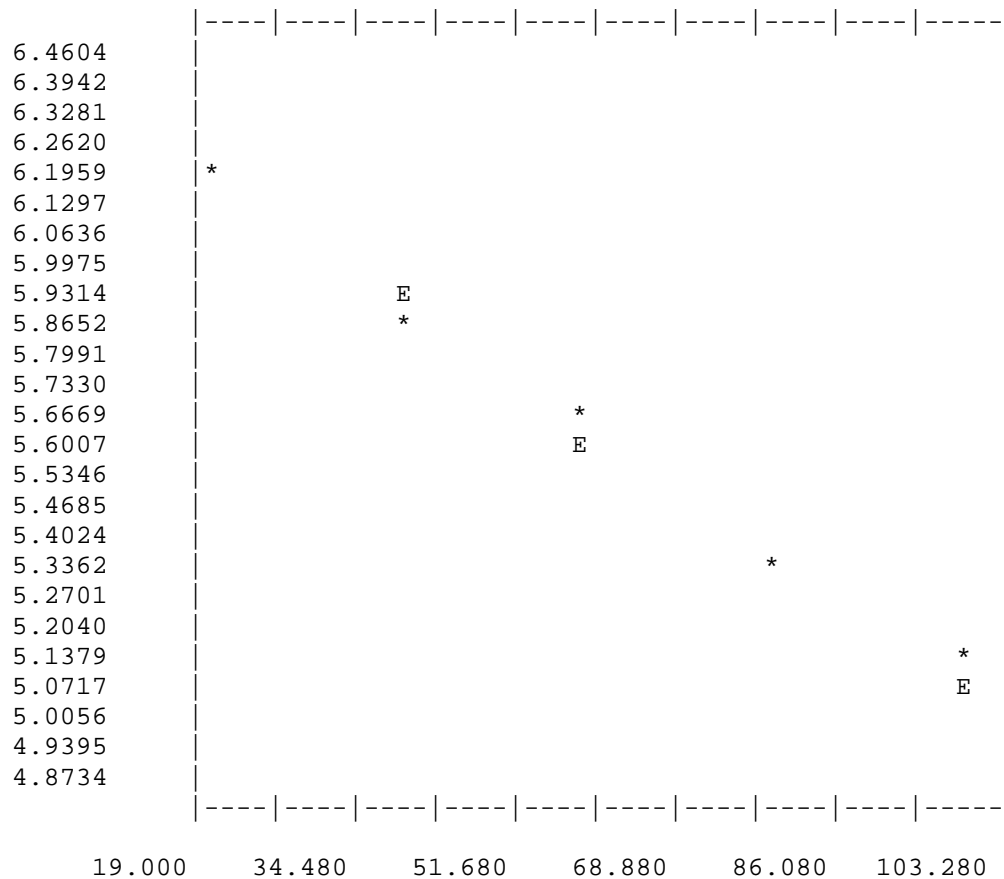
6.05

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.40732	-0.01347	0.99932	0.99864
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	469.	6.15273	6.13791
2	40.	347.	5.85220	5.86850
3	60.	270.	5.60212	5.59909
4	80.	202.	5.31321	5.32968
5	100.	159.	5.07517	5.06026



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.01

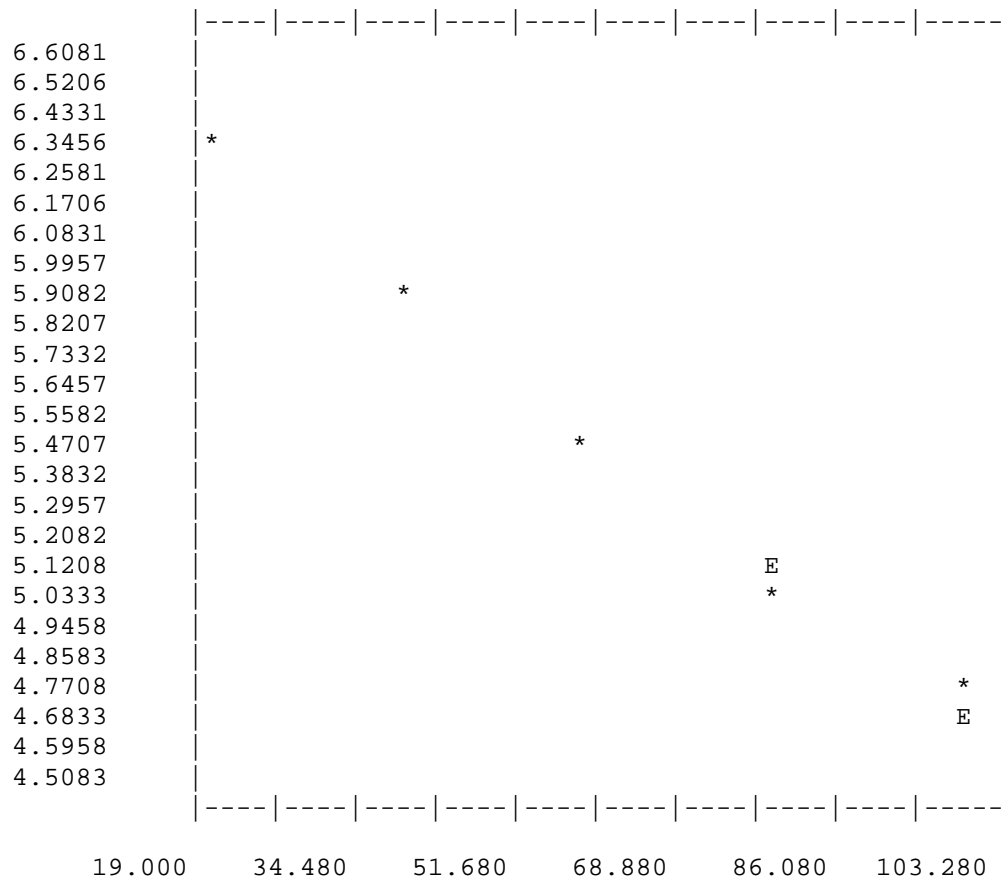
4.56

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.67807	-0.02025	0.99819	0.99639
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	540.	6.29342	6.27316
2	40.	357.	5.88053	5.86825
3	60.	226.	5.42495	5.46333
4	80.	150.	5.01728	5.05842
5	100.	109.	4.70048	4.65351



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.52

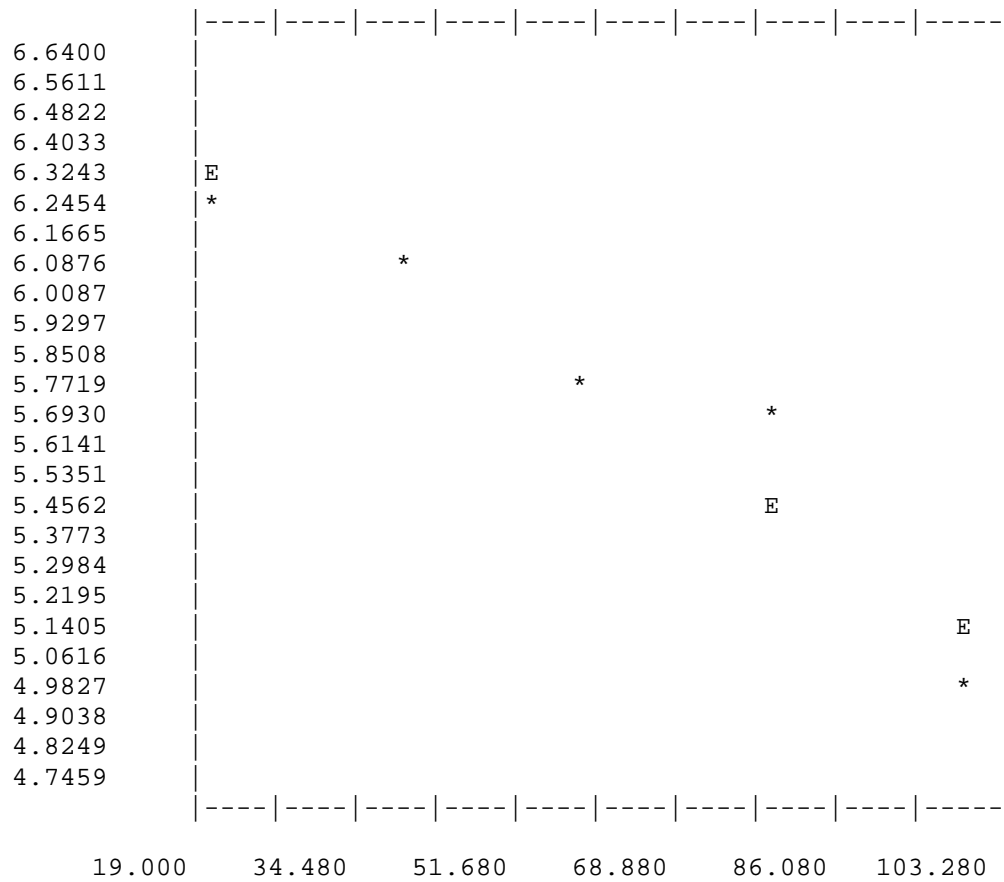
3.03

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.62614	-0.01512	0.94271	0.88869
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	511.	6.23832	6.32383
2	40.	421.	6.04501	6.02153
3	60.	306.	5.72685	5.71923
4	80.	290.	5.67332	5.41693
5	100.	135.	4.91265	5.11463



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.13

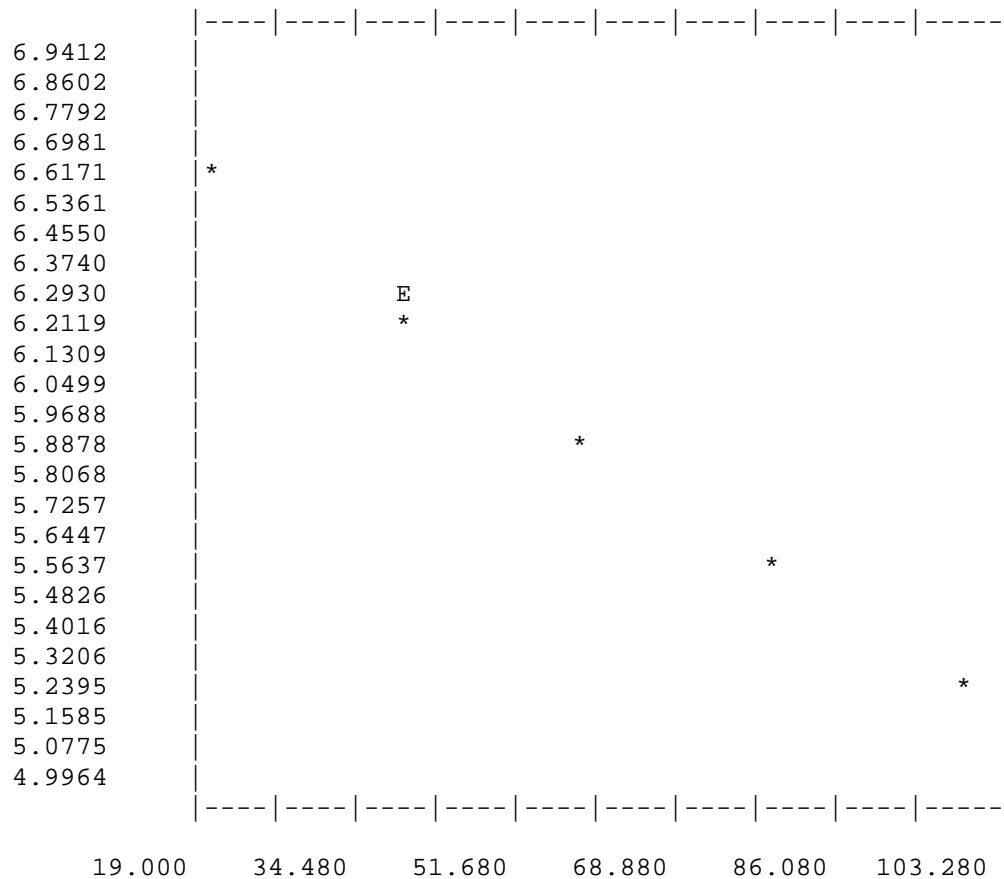
4.06

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.92180	-0.01748	0.99828	0.99657
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	742.	6.61070	6.57226
2	40.	490.	6.19644	6.22272
3	60.	341.	5.83481	5.87318
4	80.	250.	5.52545	5.52364
5	100.	180.	5.19850	5.17410



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.31

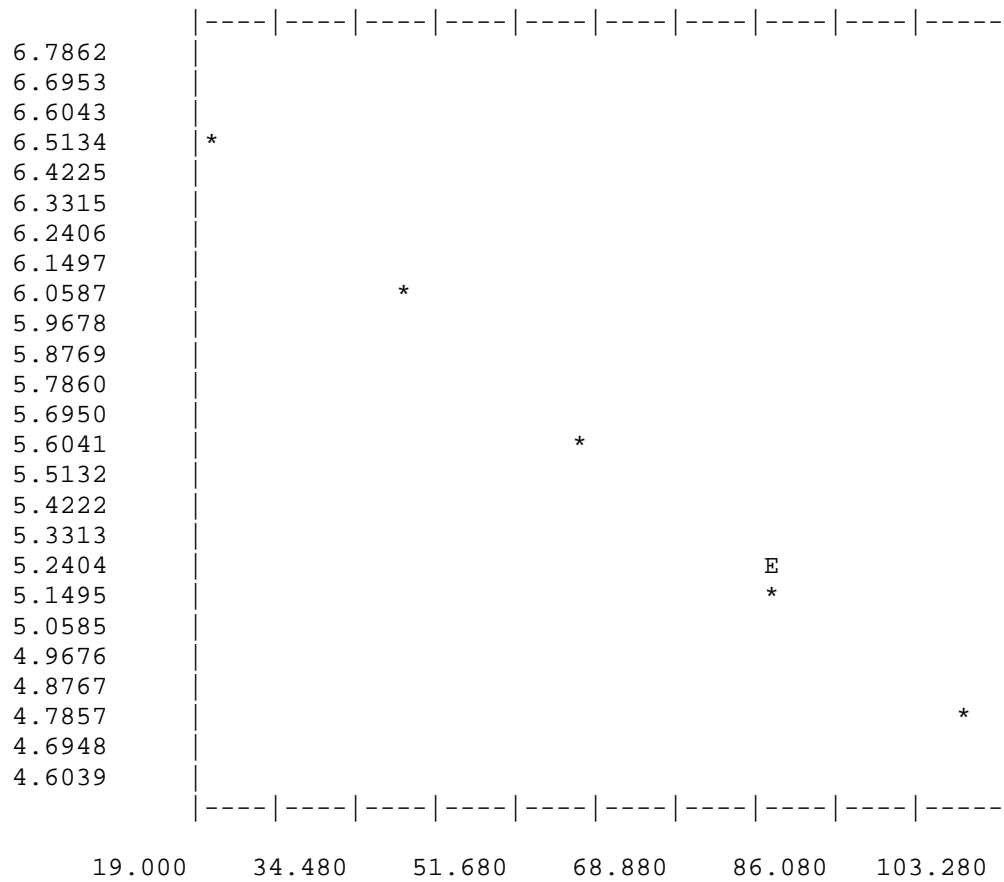
3.51

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.85172	-0.02101	0.99889	0.99779
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	640.	6.46303	6.43147
2	40.	393.	5.97635	6.01122
3	60.	268.	5.59471	5.59098
4	80.	170.	5.14166	5.17073
5	100.	118.	4.77912	4.75048



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.58

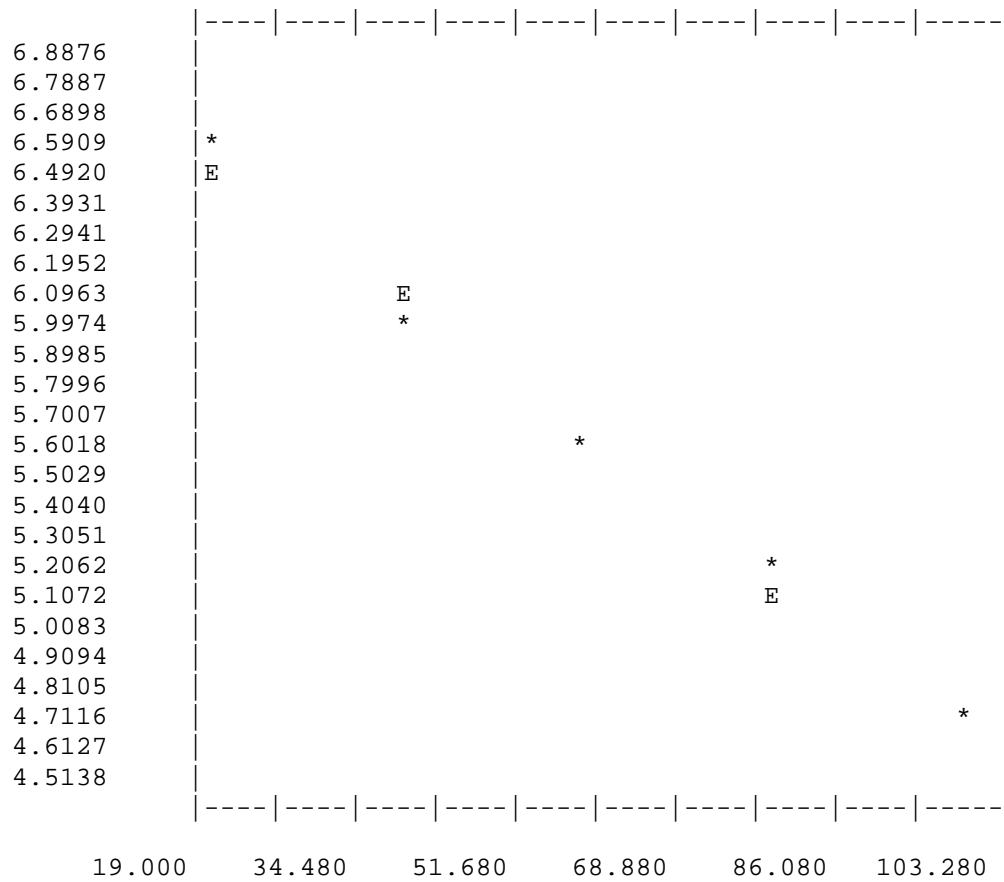
2.92

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.94476	-0.02298	0.99663	0.99327
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	705.	6.55962	6.48526
2	40.	381.	5.94542	6.02575
3	60.	251.	5.52943	5.56625
4	80.	167.	5.12396	5.10675
5	100.	106.	4.67283	4.64724



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.72

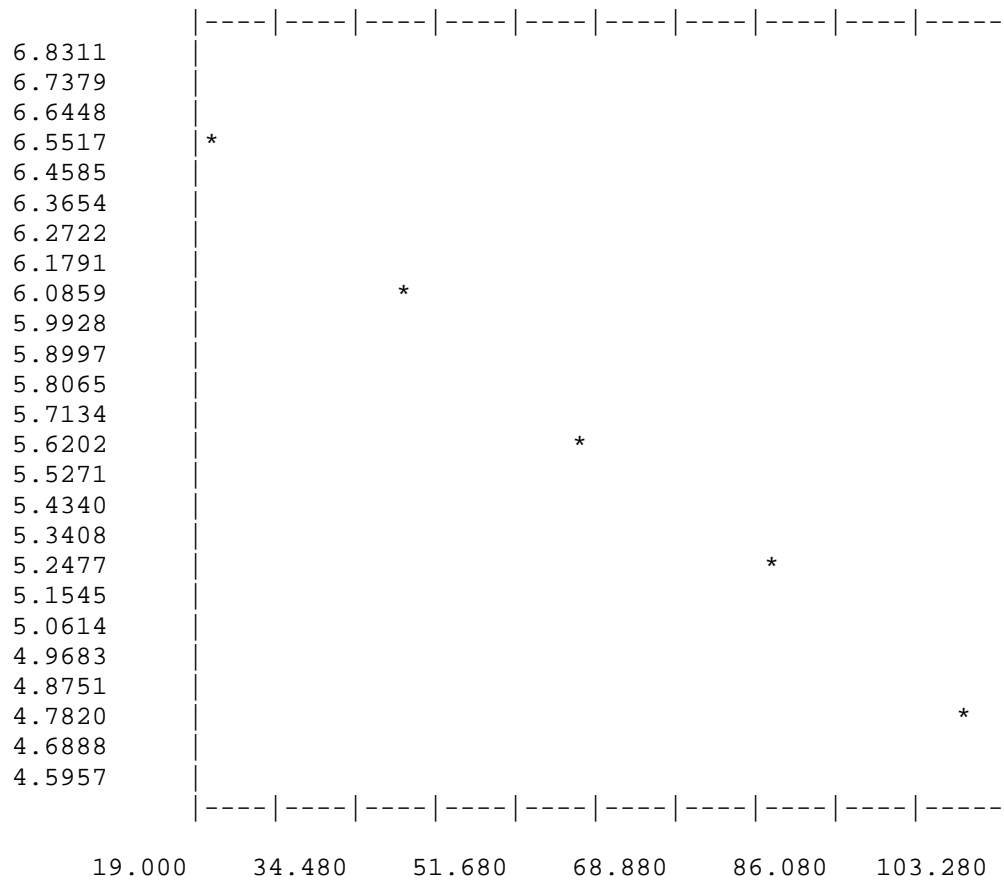
2.67

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.92512	-0.02186	0.99940	0.99880
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	668.	6.50578	6.48800
2	40.	425.	6.05444	6.05088
3	60.	263.	5.57595	5.61377
4	80.	175.	5.17048	5.17665
5	100.	116.	4.76217	4.73953



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.64

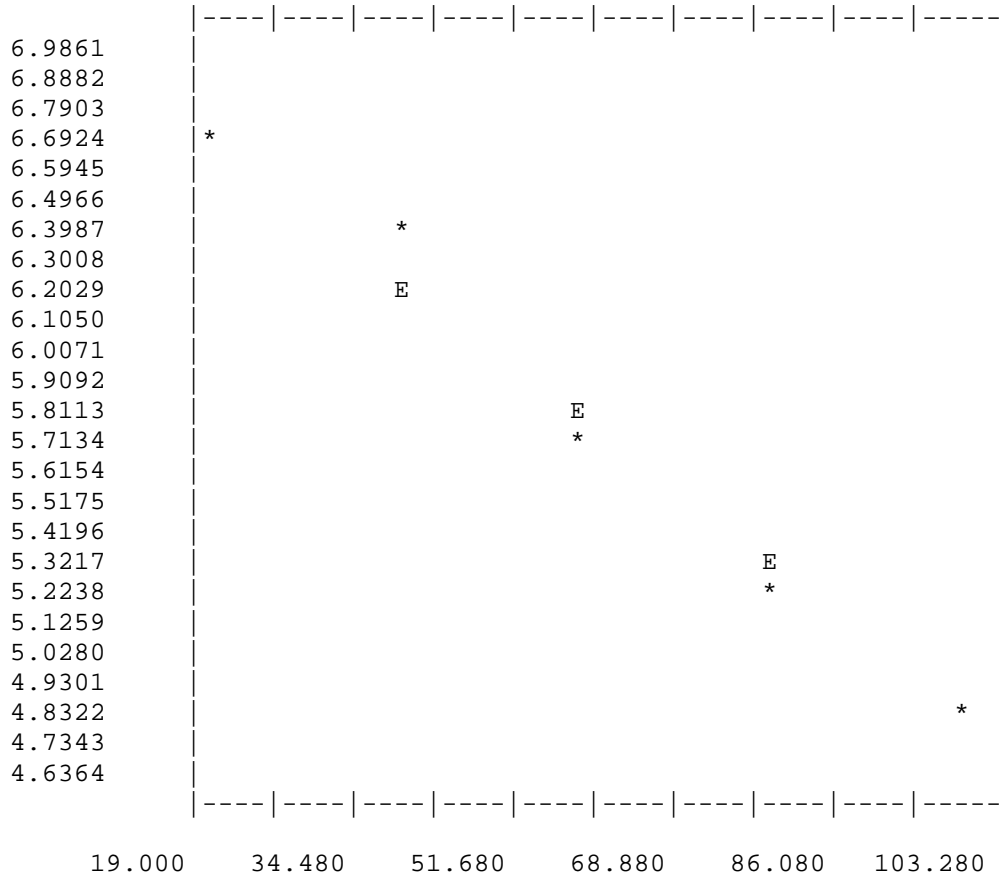
2.81

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.12250	-0.02345	0.99184	0.98374
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	736.	6.60259	6.65346
2	40.	560.	6.32972	6.18443
3	60.	275.	5.62040	5.71540
4	80.	181.	5.20401	5.24637
5	100.	123.	4.82028	4.77733



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.76

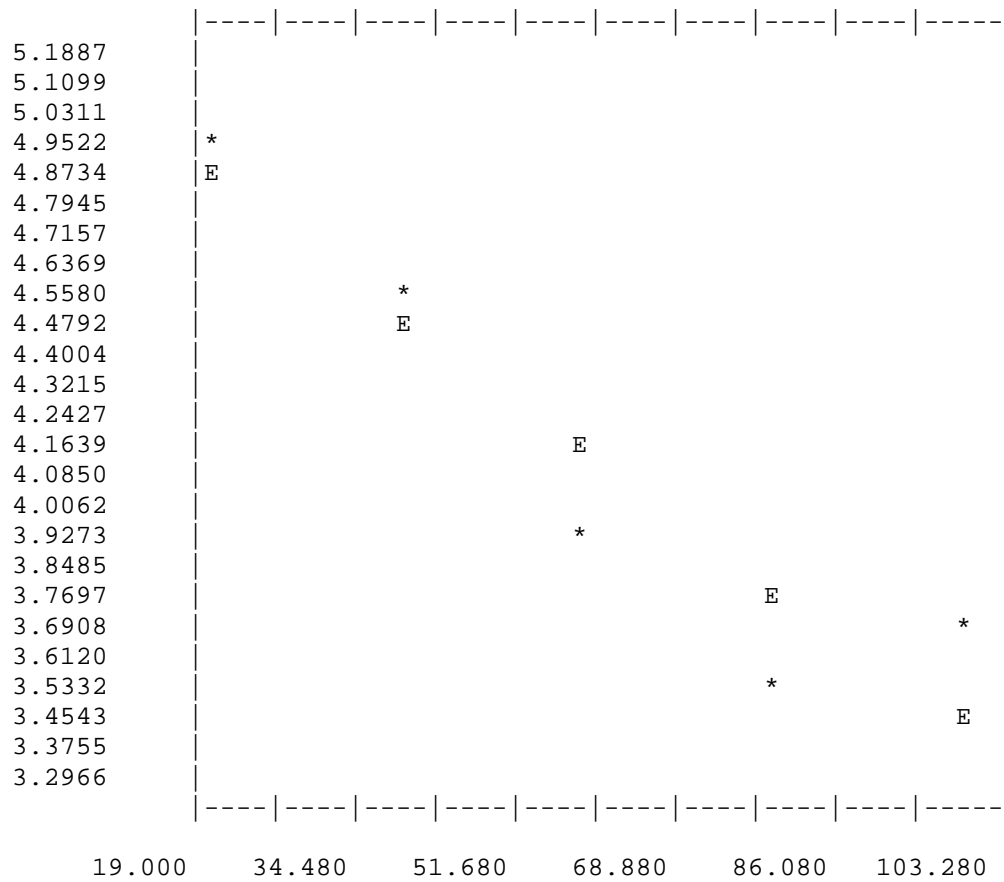
2.62

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.18894	-0.01802	0.94174	0.88687
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	139.	4.94164	4.82859
2	40.	91.	4.52179	4.46823
3	60.	49.	3.91202	4.10788
4	80.	33.	3.52636	3.74753
5	100.	37.	3.63759	3.38717



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.35

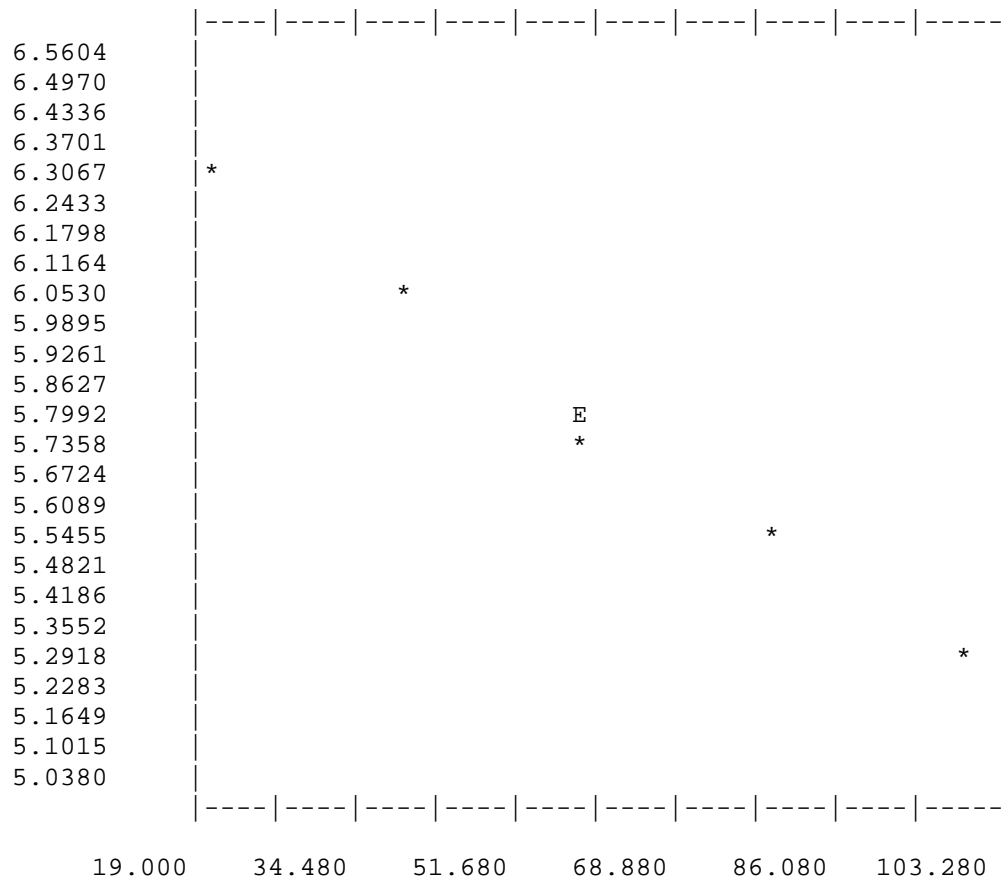
3.41

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.49737	-0.01256	0.99850	0.99701
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	516.	6.24804	6.24616
2	40.	405.	6.00635	5.99495
3	60.	301.	5.71043	5.74374
4	80.	248.	5.51745	5.49253
5	100.	187.	5.23644	5.24132



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.94

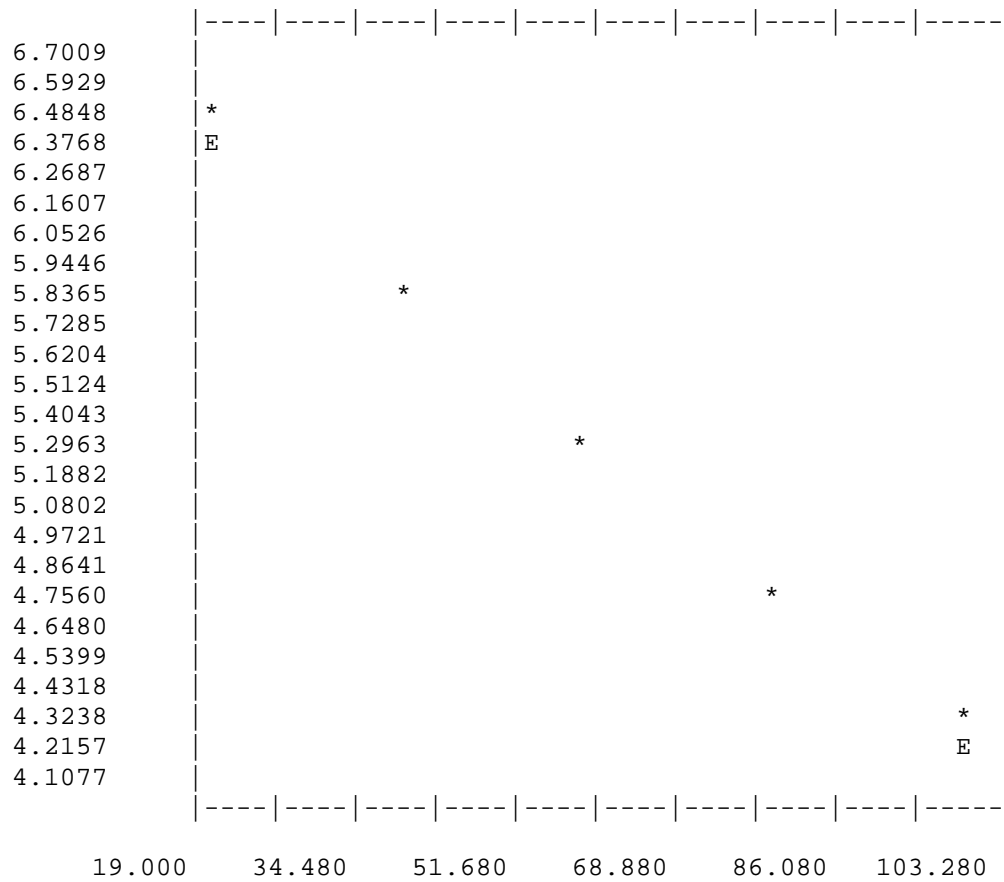
4.89

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.89513	-0.02685	0.99951	0.99901
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	590.	6.38182	6.35813
2	40.	327.	5.79301	5.82114
3	60.	198.	5.29330	5.28415
4	80.	111.	4.71850	4.74715
5	100.	68.	4.23411	4.21016



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.01

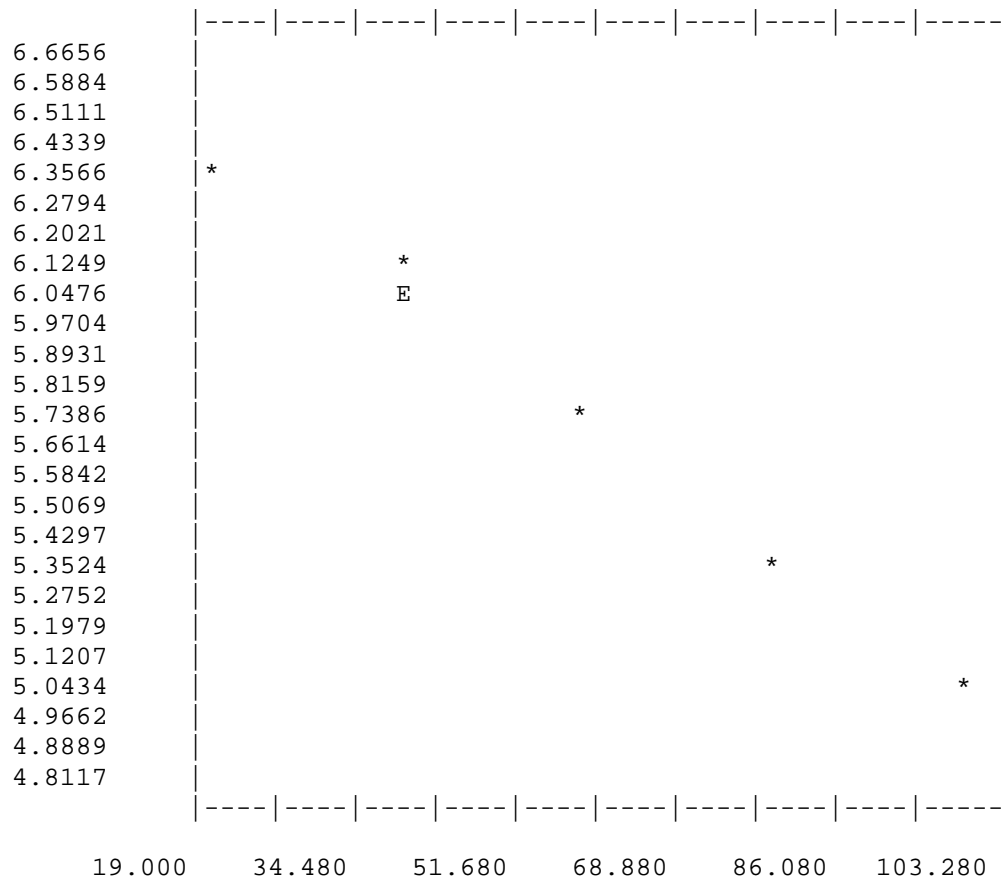
2.29

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.68330	-0.01675	0.99706	0.99413
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	542.	6.29711	6.34821
2	40.	428.	6.06146	6.01312
3	60.	301.	5.71043	5.67803
4	80.	207.	5.33754	5.34294
5	100.	145.	4.98361	5.00784



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.26

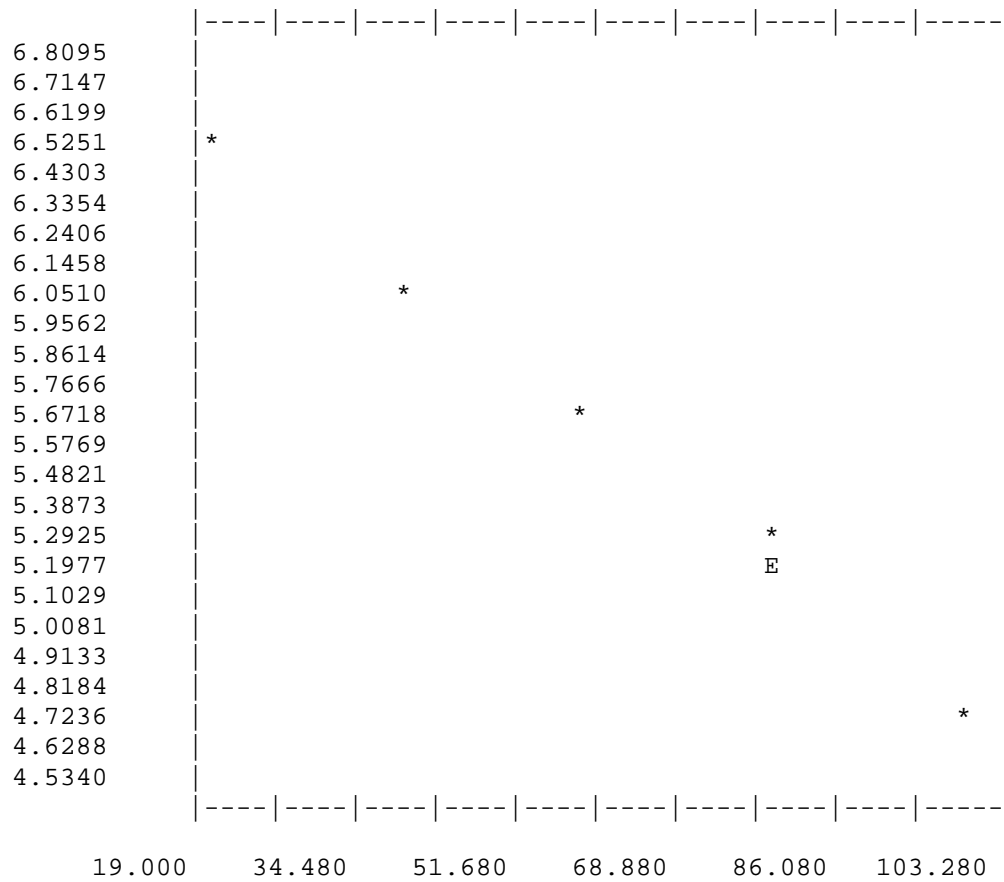
3.66

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.92741	-0.02211	0.99850	0.99699
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	650.	6.47851	6.48524
2	40.	415.	6.03069	6.04307
3	60.	270.	5.60212	5.60090
4	80.	184.	5.22036	5.15873
5	100.	106.	4.67283	4.71656



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.66

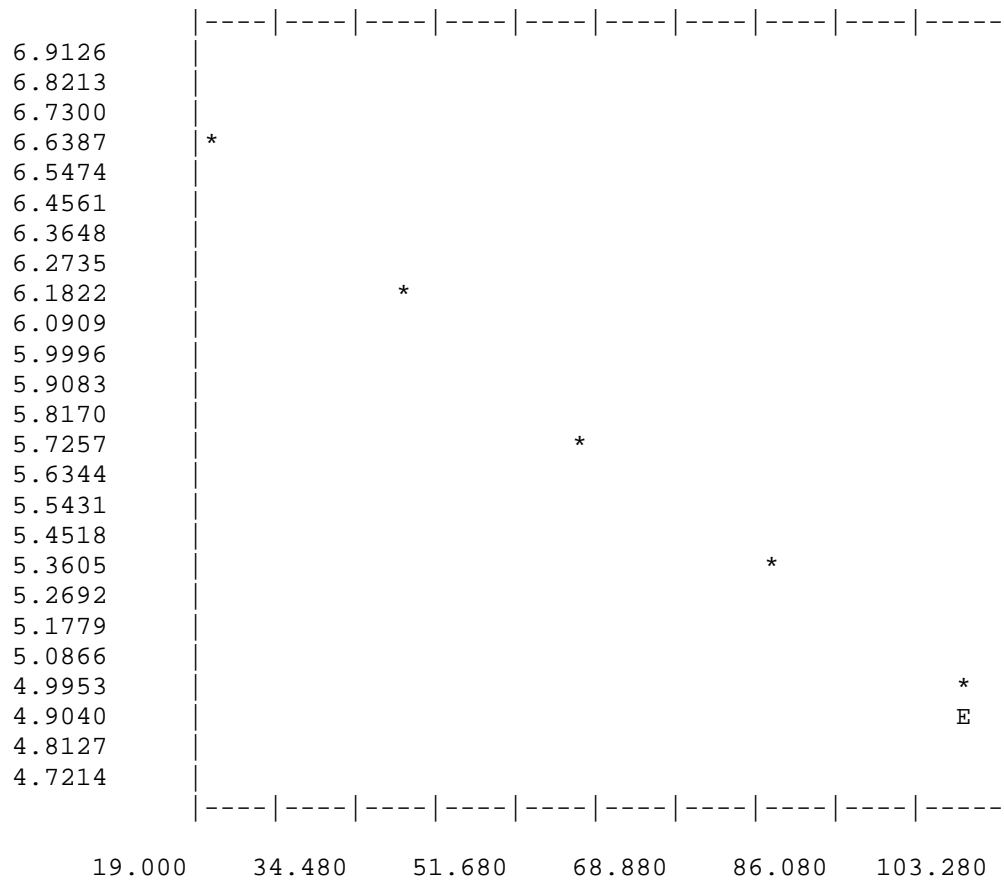
2.78

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.97518	-0.02101	0.99906	0.99812
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	722.	6.58341	6.55490
2	40.	456.	6.12468	6.13461
3	60.	292.	5.68017	5.71433
4	80.	195.	5.27811	5.29405
5	100.	134.	4.90527	4.87376



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.58

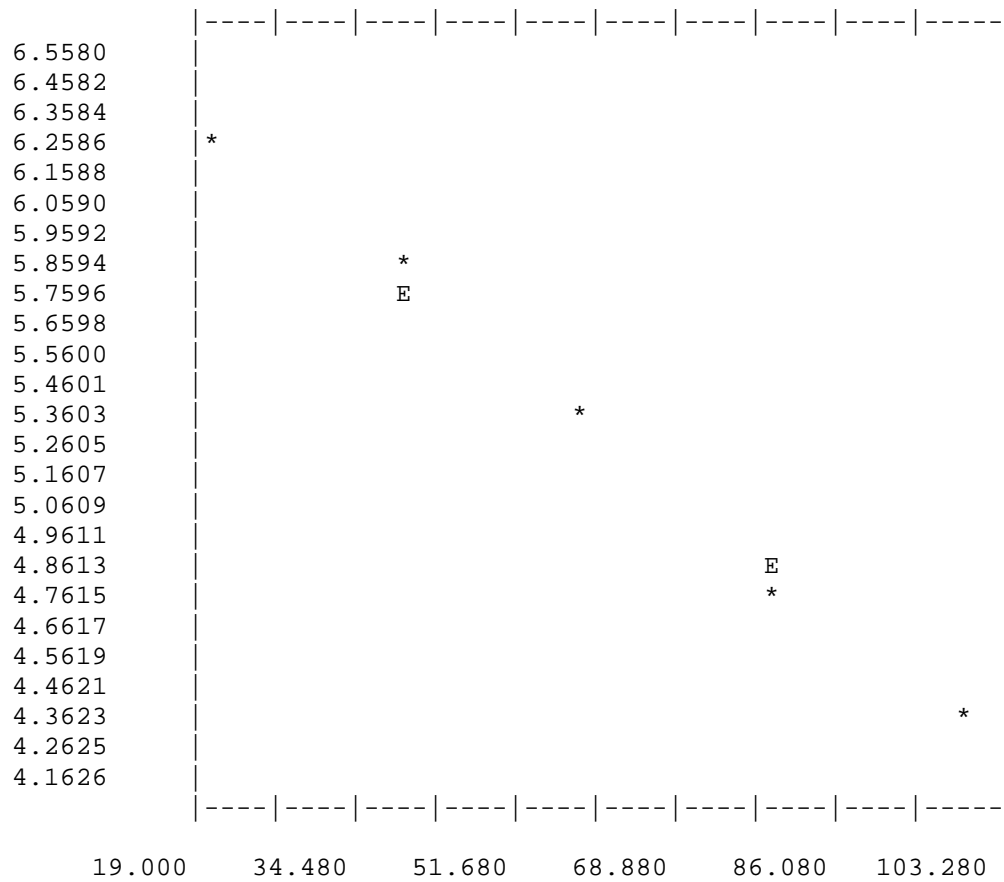
2.92

LIGHT PROFILE ANALYSES - FOR 6/26/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.73758	-0.02459	0.99974	0.99949
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	506.	6.22851	6.24574
2	40.	319.	5.76832	5.75390
3	60.	196.	5.28320	5.26206
4	80.	115.	4.75359	4.77022
5	100.	71.	4.27667	4.27837



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.84

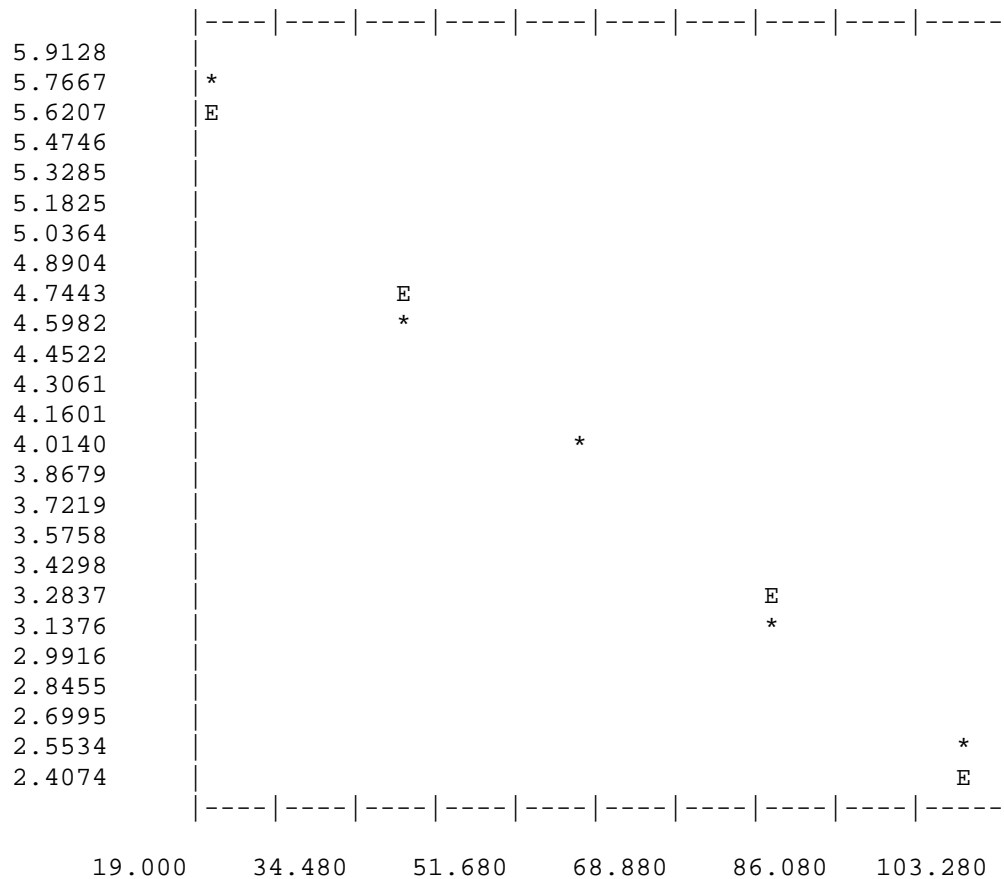
2.50

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.26524	-0.03885	0.99320	0.98644
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	278.	5.63121	5.48826
2	40.	91.	4.52179	4.71127
3	60.	53.	3.98898	3.93428
4	80.	20.	3.04452	3.15730
5	100.	11.	2.48491	2.38031



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.91

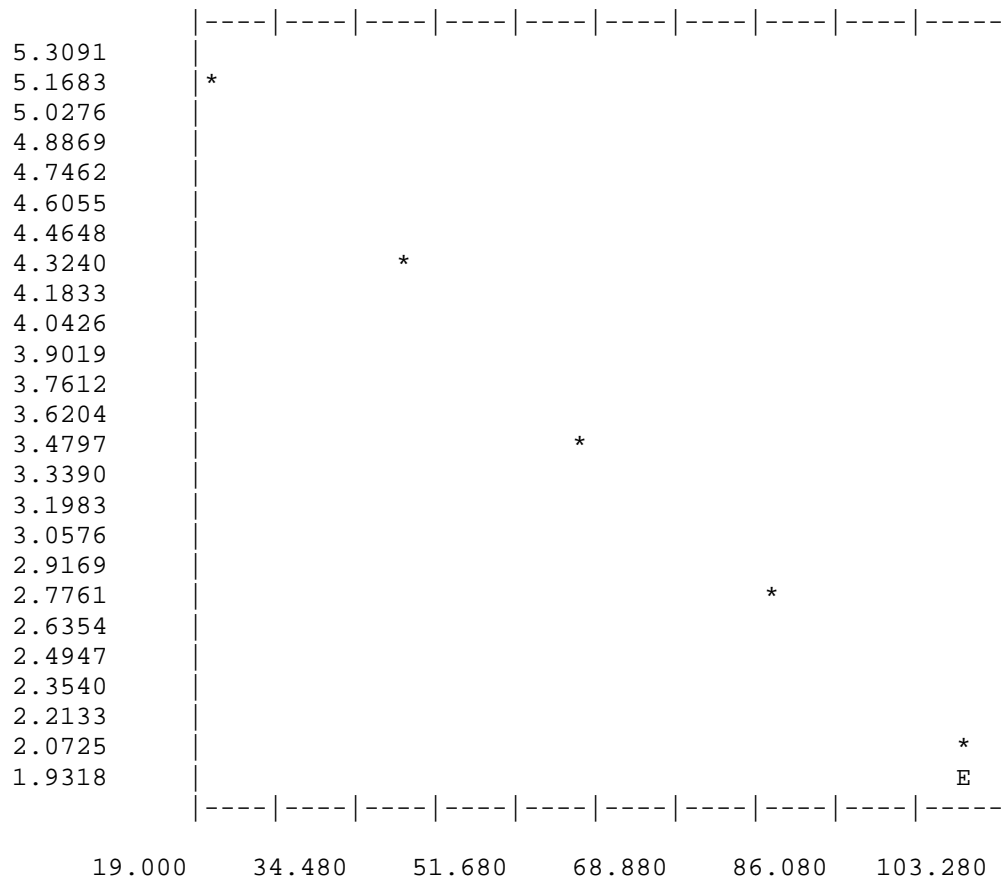
1.58

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.82822	-0.03943	0.99863	0.99727
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	156.	5.05625	5.03965
2	40.	73.	4.30407	4.25108
3	60.	28.	3.36730	3.46252
4	80.	13.	2.63906	2.67395
5	100.	6.	1.94591	1.88538



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.96

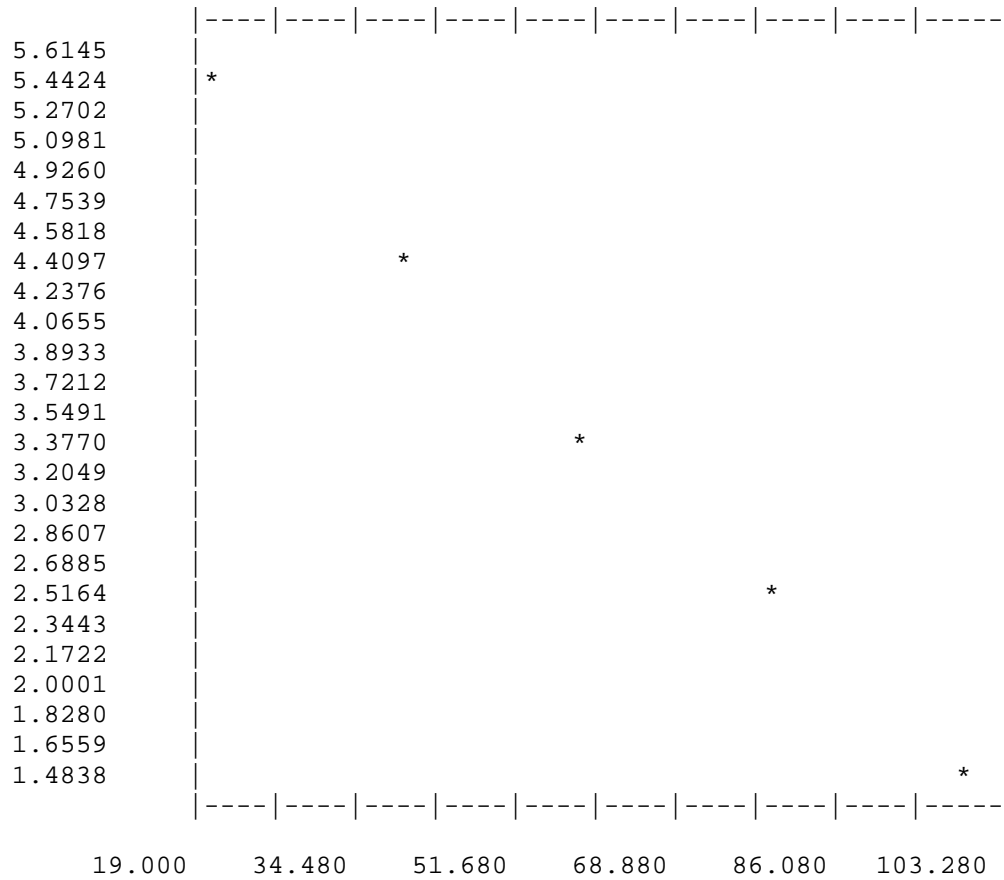
1.56

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.30129	-0.04921	0.99974	0.99947
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	209.	5.34711	5.31717
2	40.	74.	4.31749	4.33305
3	60.	26.	3.29584	3.34892
4	80.	10.	2.39790	2.36480
5	100.	3.	1.38629	1.38068



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.69

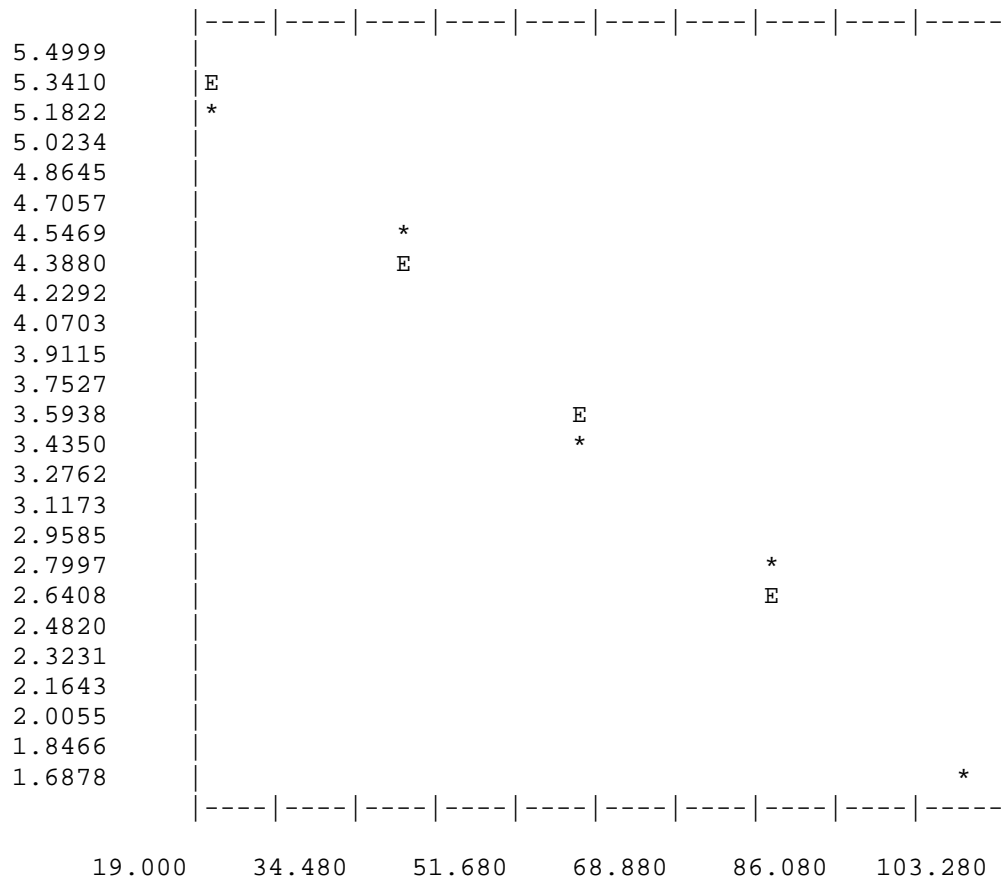
1.25

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.12811	-0.04451	0.99449	0.98902
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	172.	5.15329	5.23797
2	40.	91.	4.52179	4.34783
3	60.	26.	3.29584	3.45768
4	80.	14.	2.70805	2.56754
5	100.	4.	1.60944	1.67739



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.34

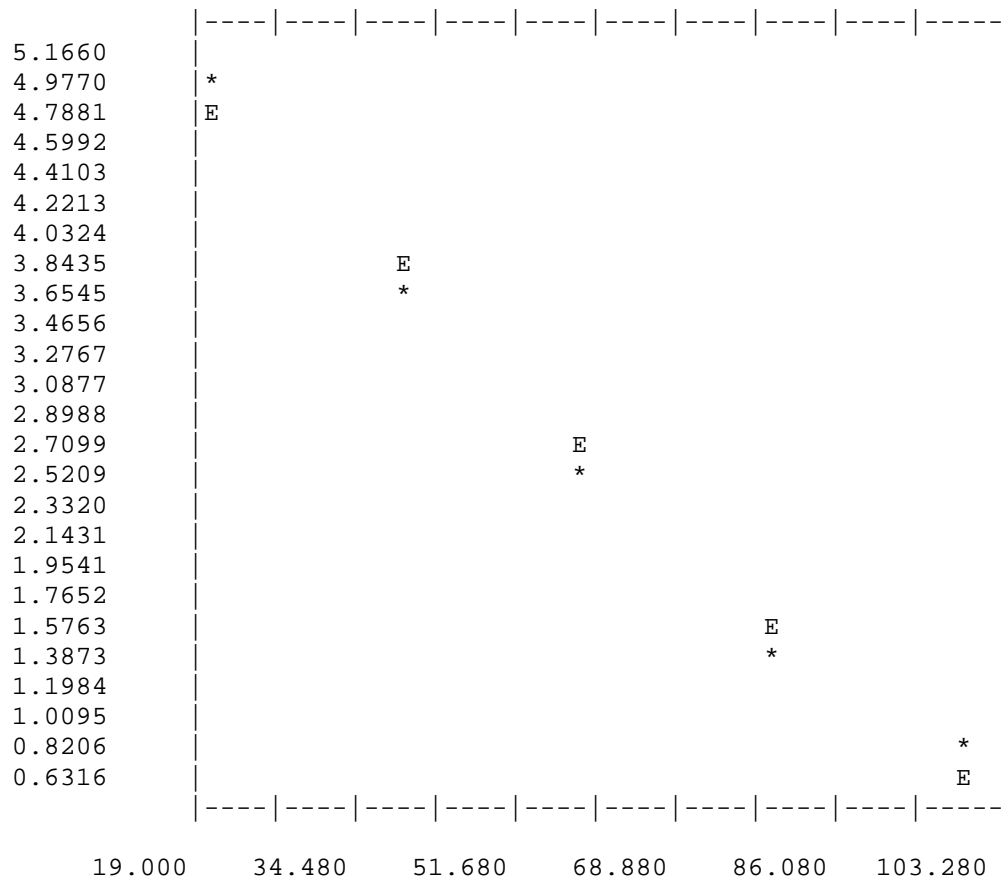
1.38

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	5.80514	-0.05339	0.99341	0.98687
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	136.	4.91998	4.73731
2	40.	36.	3.61092	3.66948
3	60.	10.	2.39790	2.60165
4	80.	3.	1.38629	1.53382
5	100.	1.	0.69315	0.46599



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

4.00

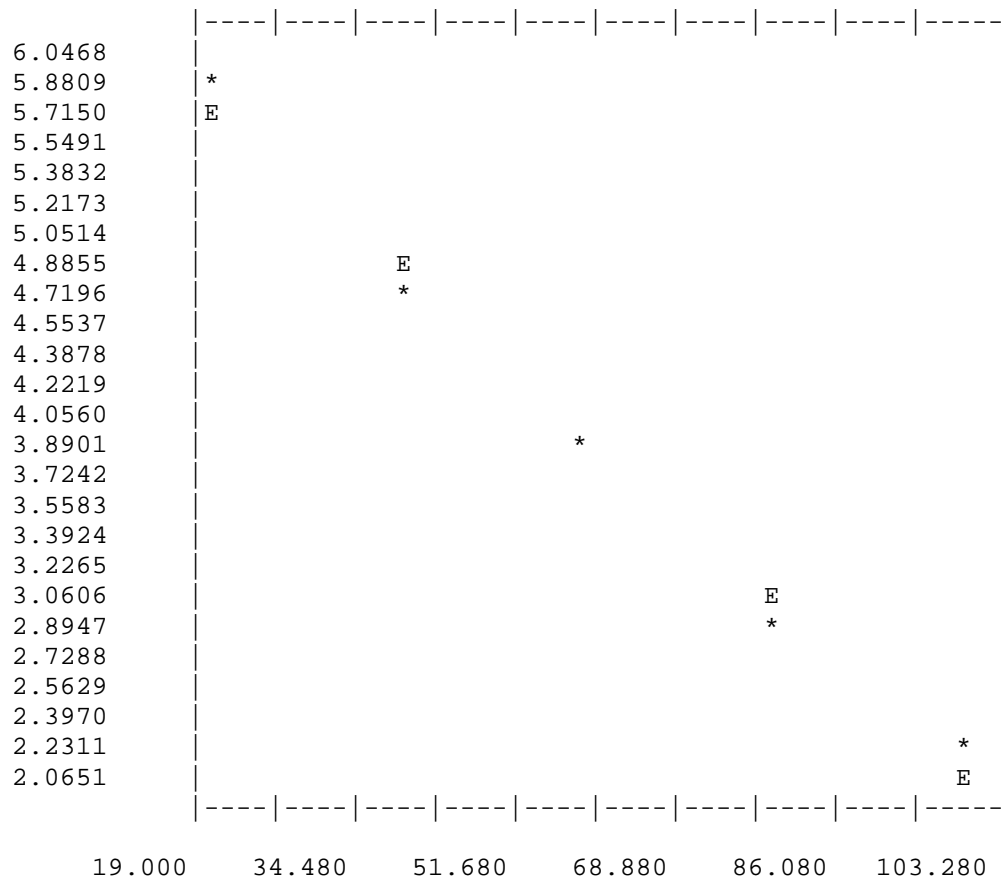
1.15

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.57942	-0.04580	0.99790	0.99581
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	316.	5.75890	5.66337
2	40.	102.	4.63473	4.74733
3	60.	46.	3.85015	3.83129
4	80.	16.	2.83321	2.91524
5	100.	7.	2.07944	1.99920



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.44

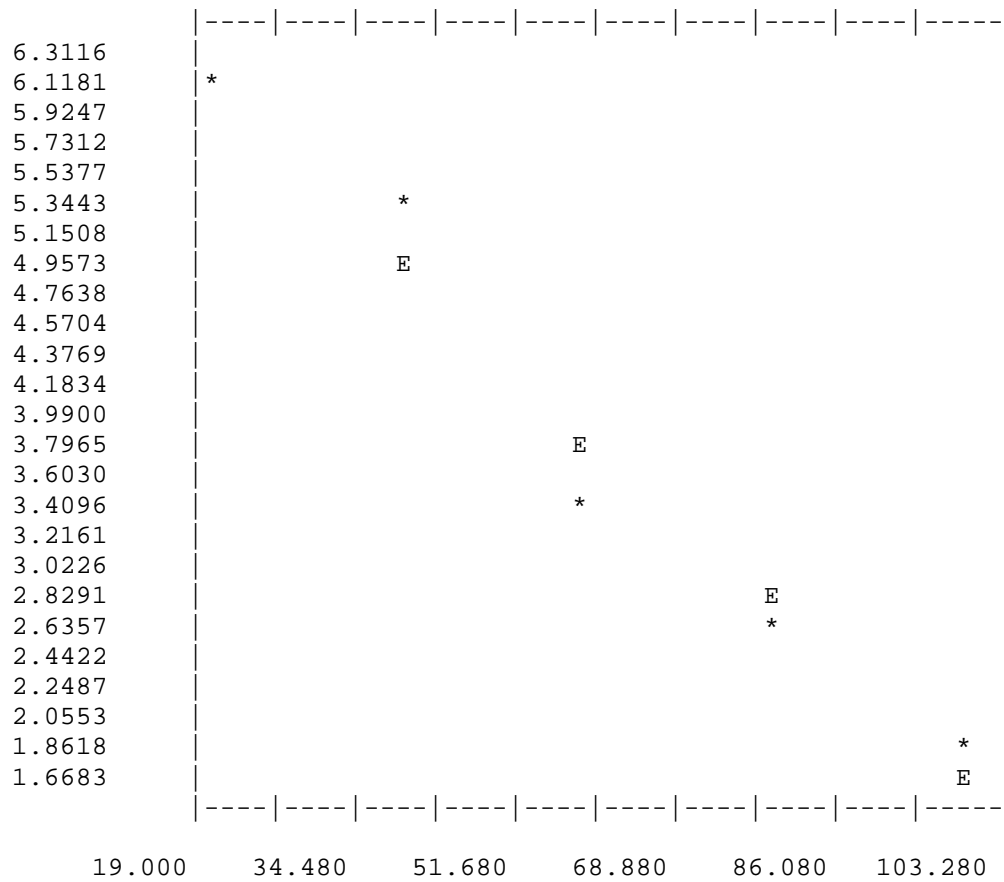
1.34

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.12571	-0.05573	0.98586	0.97192
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	396.	5.98394	6.01106
2	40.	189.	5.24702	4.89641
3	60.	29.	3.40120	3.78176
4	80.	11.	2.48491	2.66712
5	100.	5.	1.79176	1.55247



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

4.18

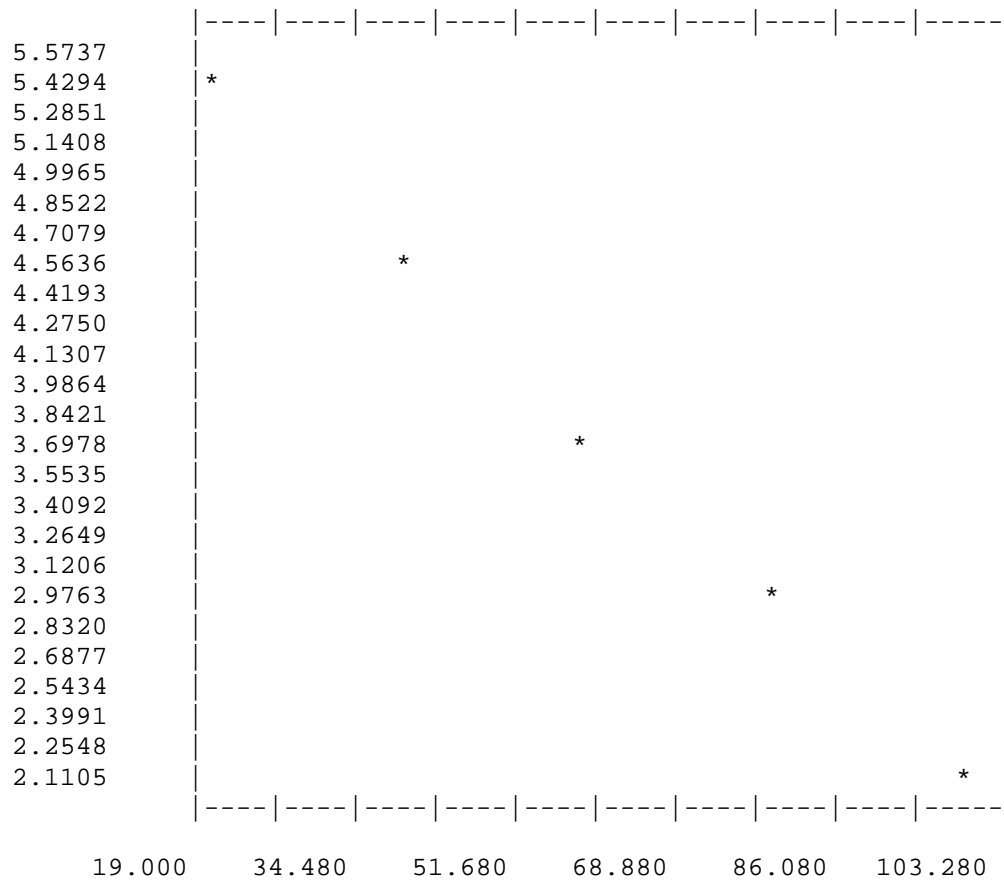
1.10

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.10322	-0.04034	0.99980	0.99960
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	201.	5.30827	5.29651
2	40.	89.	4.49981	4.48980
3	60.	37.	3.63759	3.68309
4	80.	17.	2.89037	2.87639
5	100.	7.	2.07944	2.06968



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.03

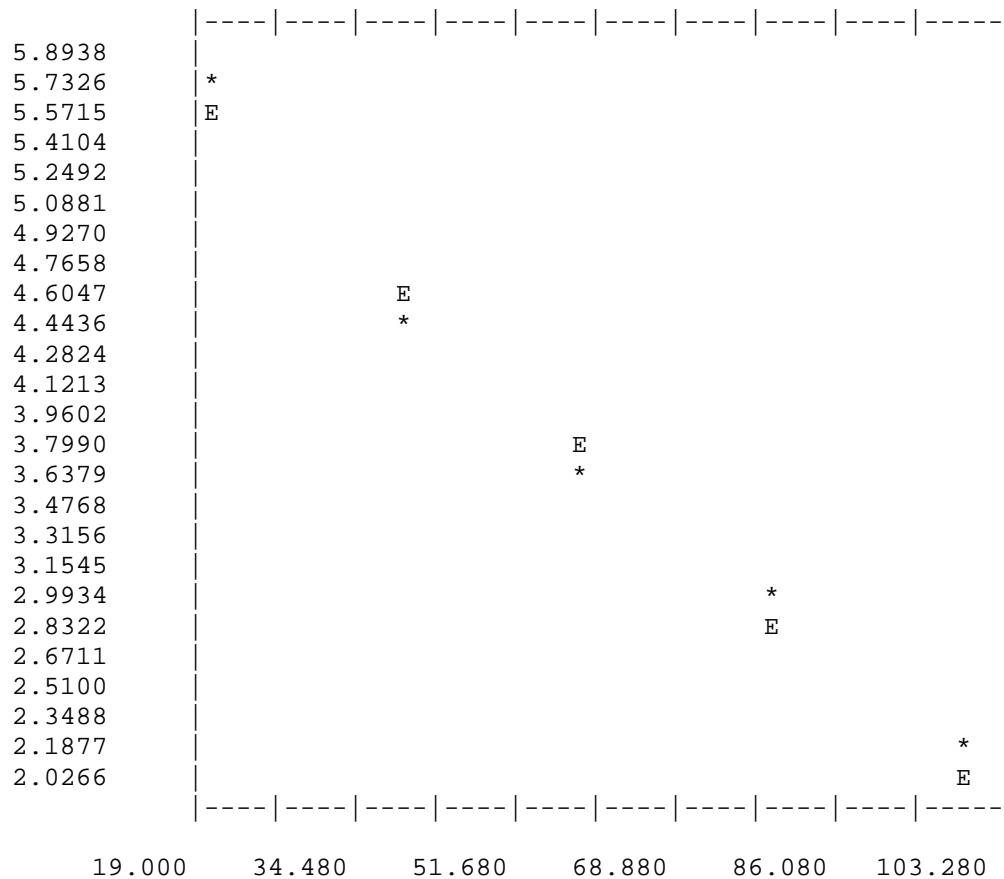
1.52

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.30200	-0.04338	0.99404	0.98811
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	273.	5.61313	5.43432
2	40.	84.	4.44265	4.56664
3	60.	33.	3.52636	3.69896
4	80.	16.	2.83321	2.83128
5	100.	7.	2.07944	1.96360



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.25

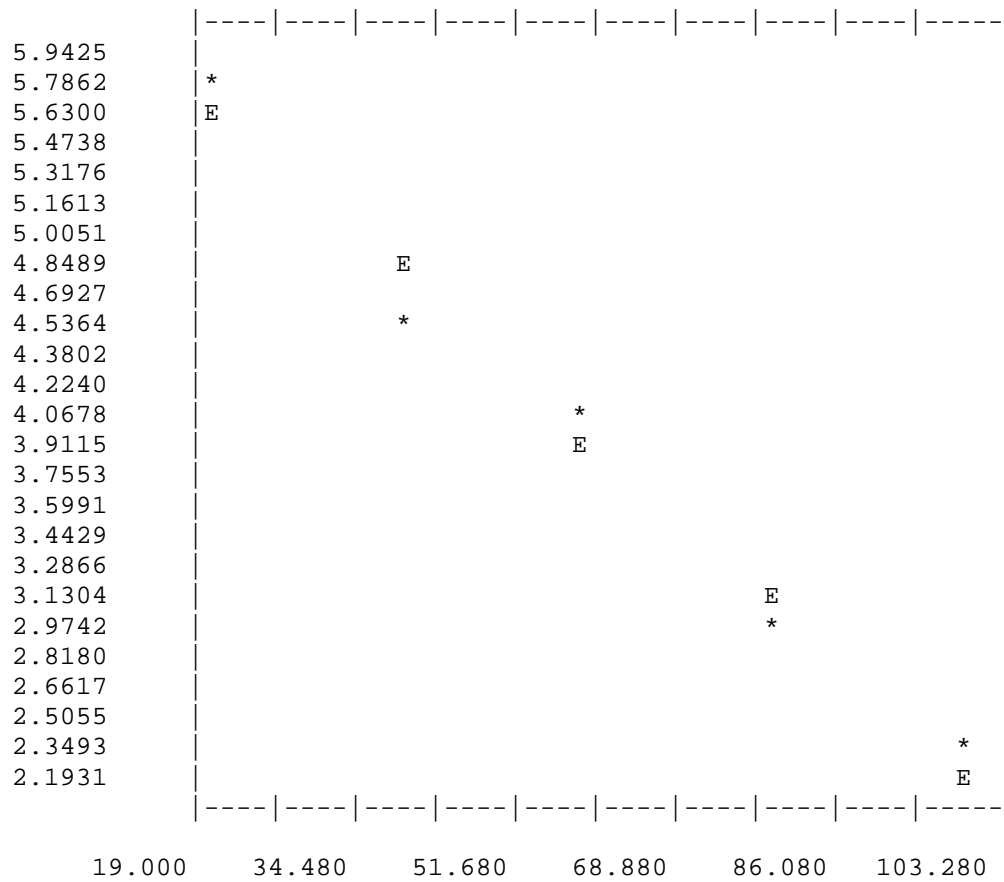
1.42

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.39979	-0.04256	0.99313	0.98632
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	286.	5.65948	5.54864
2	40.	87.	4.47734	4.69750
3	60.	54.	4.00733	3.84635
4	80.	17.	2.89037	2.99520
5	100.	8.	2.19722	2.14405



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.19

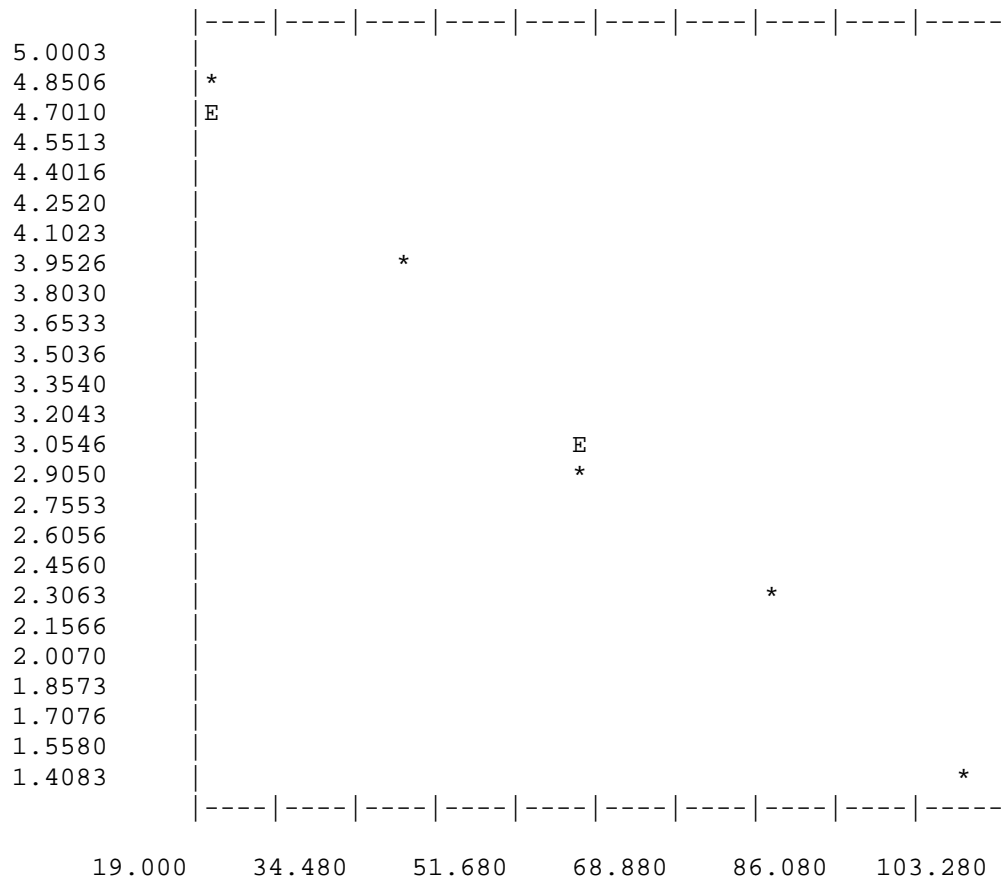
1.44

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.51646	-0.04192	0.99713	0.99428
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	116.	4.76217	4.67814
2	40.	45.	3.82864	3.83983
3	60.	16.	2.83321	3.00151
4	80.	8.	2.19722	2.16319
5	100.	3.	1.38629	1.32487



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.14

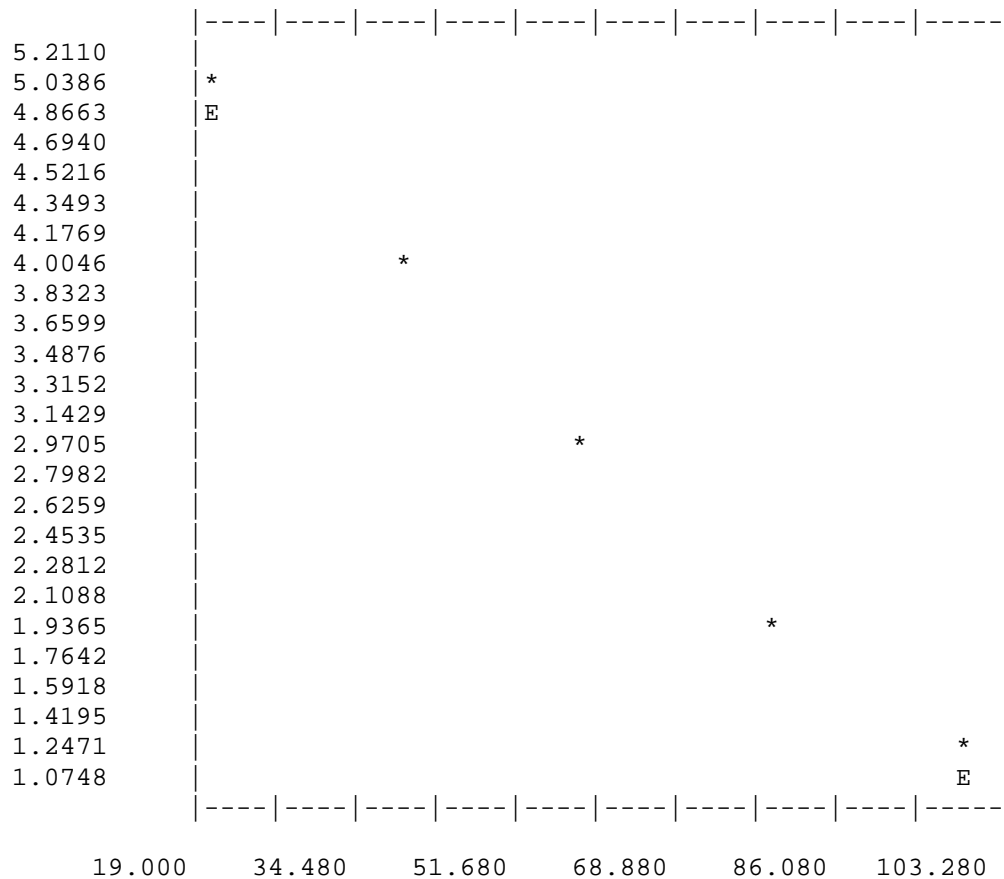
1.46

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.84337	-0.04893	0.99702	0.99406
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	142.	4.96284	4.86469
2	40.	46.	3.85015	3.88600
3	60.	16.	2.83321	2.90732
4	80.	5.	1.79176	1.92863
5	100.	2.	1.09861	0.94995



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.67

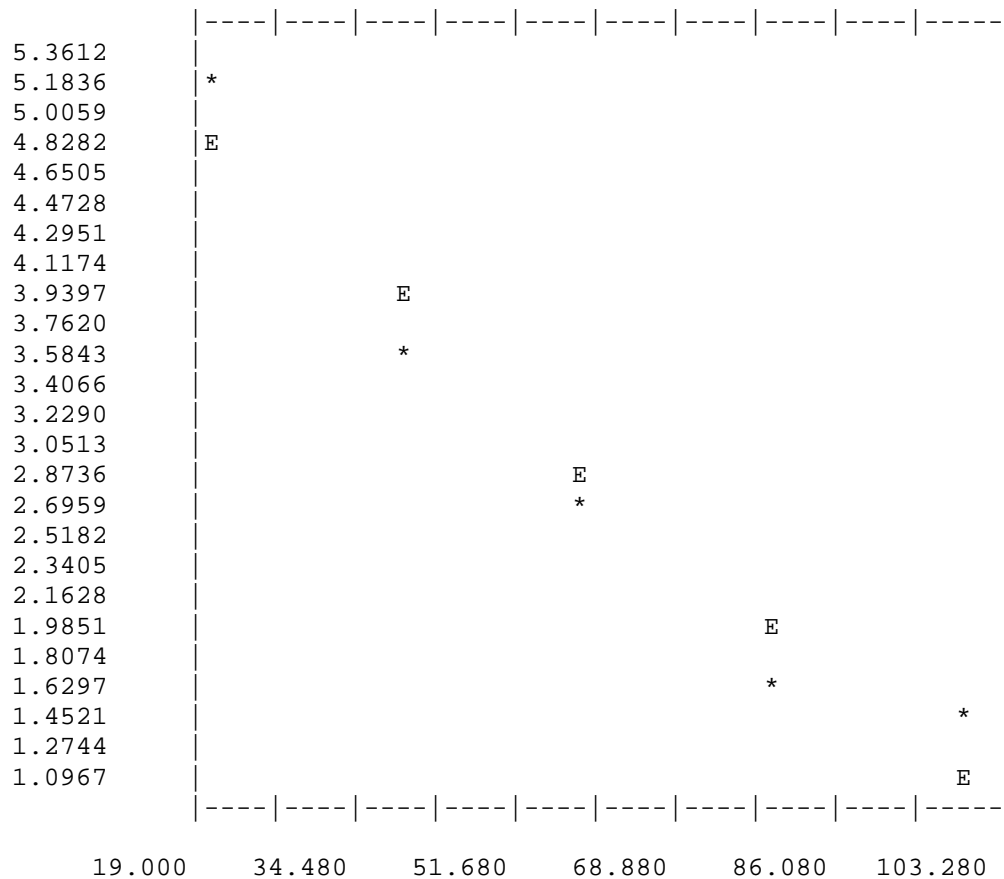
1.25

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.64546	-0.04678	0.96974	0.94039
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	164.	5.10595	4.70984
2	40.	33.	3.52636	3.77422
3	60.	12.	2.56495	2.83860
4	80.	4.	1.60944	1.90297
5	100.	3.	1.38629	0.96735



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.51

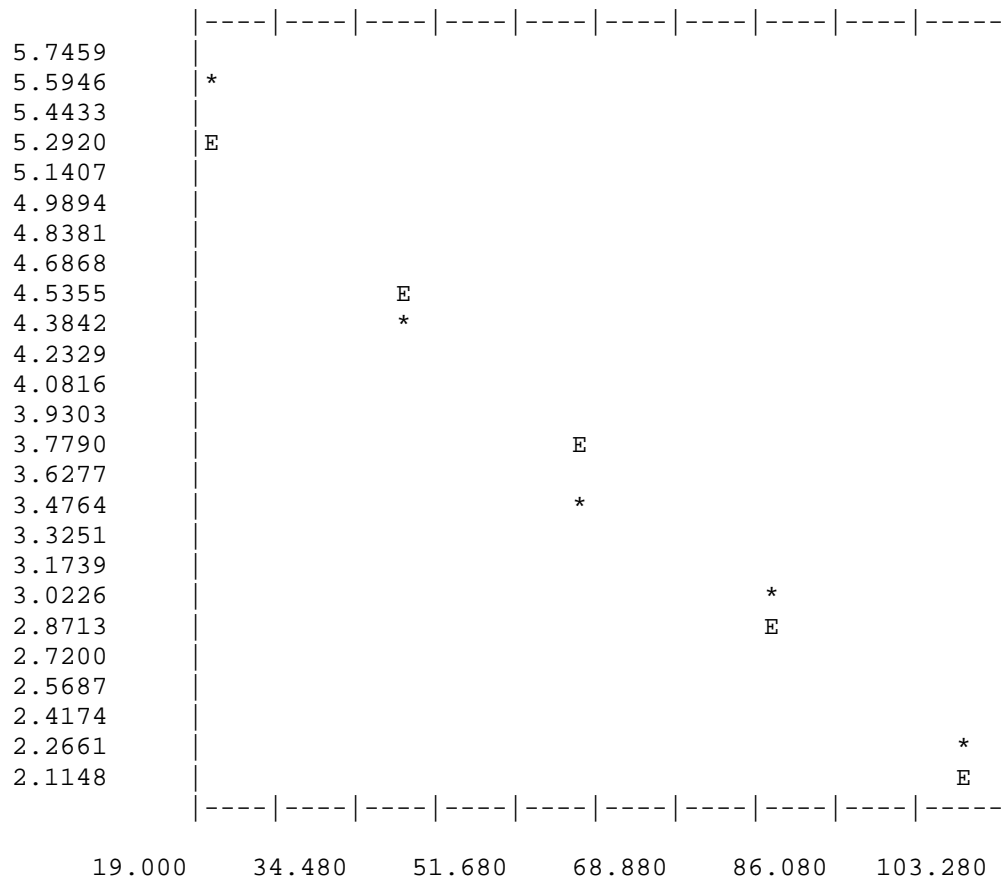
1.31

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.04192	-0.03975	0.98877	0.97767
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	237.	5.47227	5.24690
2	40.	72.	4.29046	4.45188
3	60.	30.	3.43399	3.65686
4	80.	17.	2.89037	2.86184
5	100.	8.	2.19722	2.06683



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.98

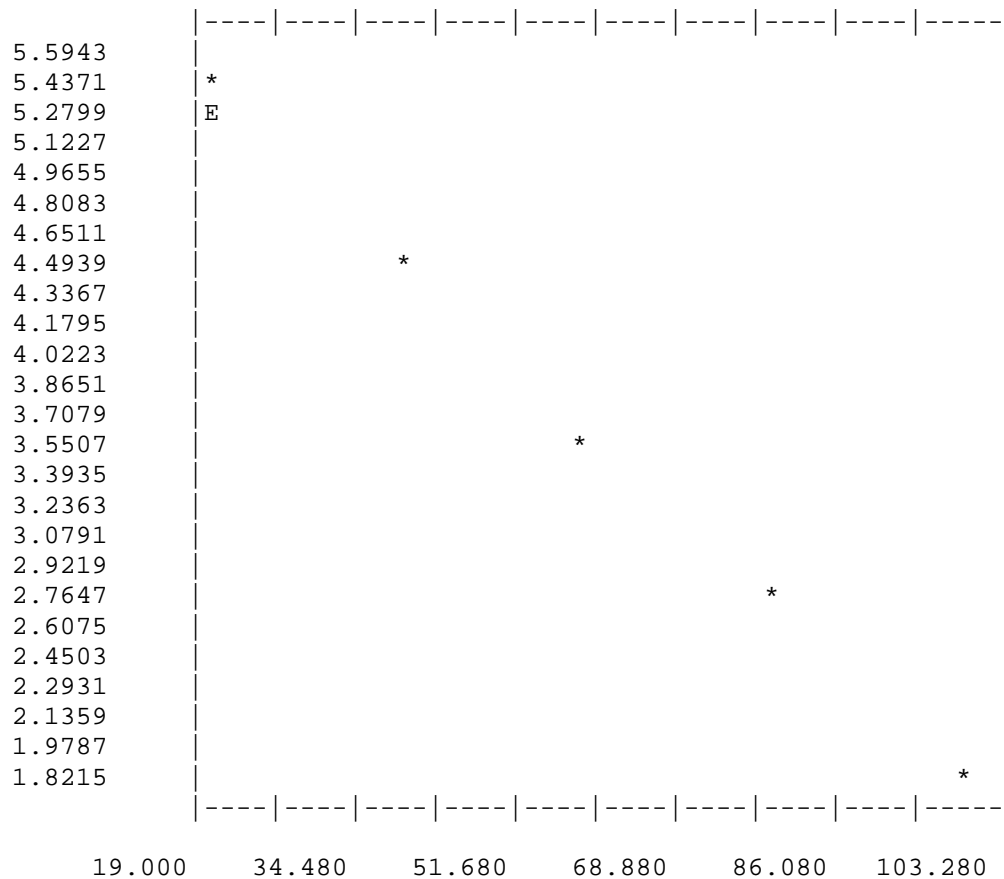
1.54

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.14039	-0.04388	0.99916	0.99832
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	205.	5.32788	5.26269
2	40.	76.	4.34381	4.38500
3	60.	30.	3.43399	3.50730
4	80.	13.	2.63906	2.62960
5	100.	5.	1.79176	1.75190



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.29

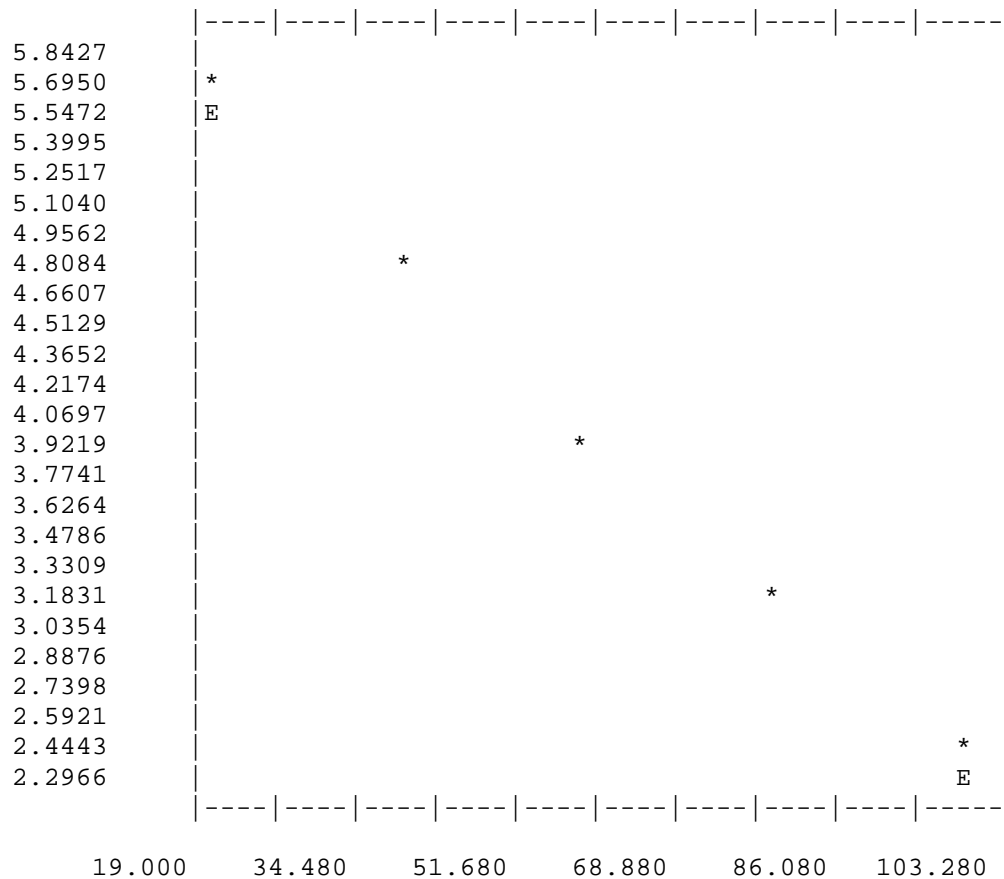
1.40

LIGHT PROFILE ANALYSES - FOR 7/26/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.32856	-0.04067	0.99885	0.99770
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	260.	5.56452	5.51523
2	40.	109.	4.70048	4.70189
3	60.	43.	3.78419	3.88856
4	80.	21.	3.09104	3.07523
5	100.	9.	2.30259	2.26190



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.05

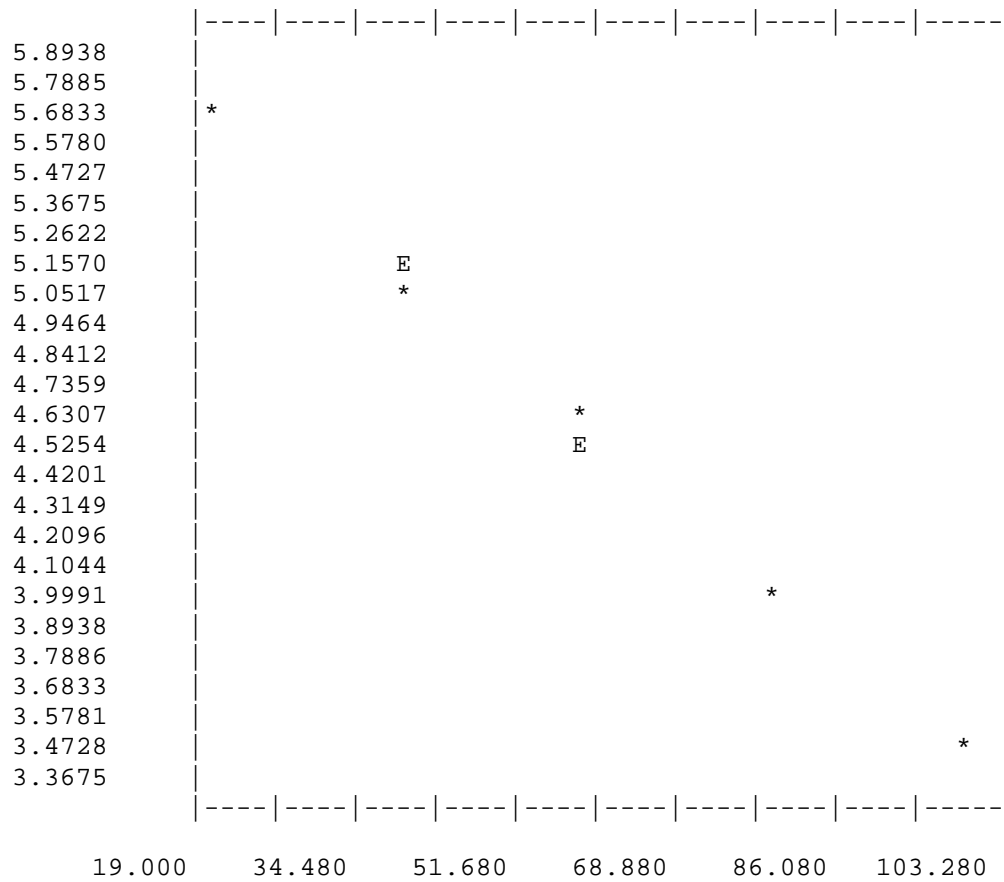
1.51

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.12948	-0.02683	0.99894	0.99789
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	273.	5.61313	5.59283
2	40.	147.	4.99721	5.05618
3	60.	95.	4.56435	4.51953
4	80.	53.	3.98898	3.98288
5	100.	30.	3.43399	3.44623



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.01

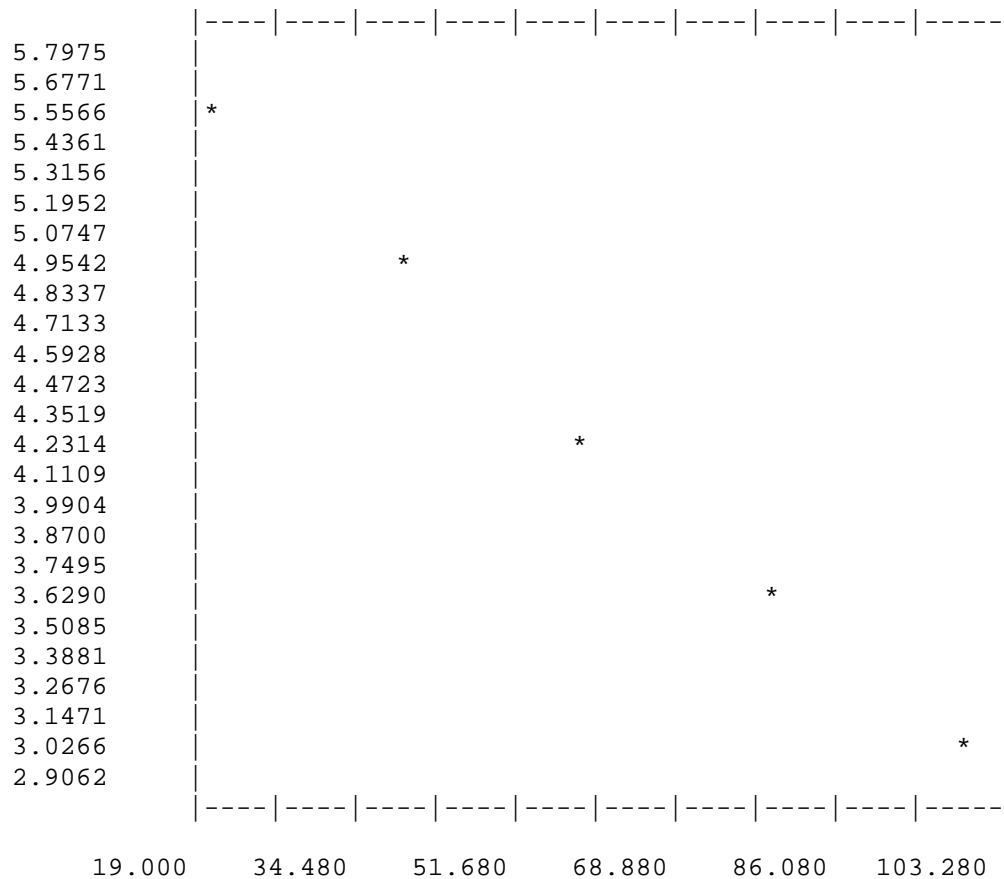
2.29

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.11696	-0.03185	0.99858	0.99716
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	249.	5.52146	5.48003
2	40.	126.	4.84419	4.84310
3	60.	62.	4.14313	4.20618
4	80.	33.	3.52636	3.56925
5	100.	19.	2.99573	2.93232



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.39

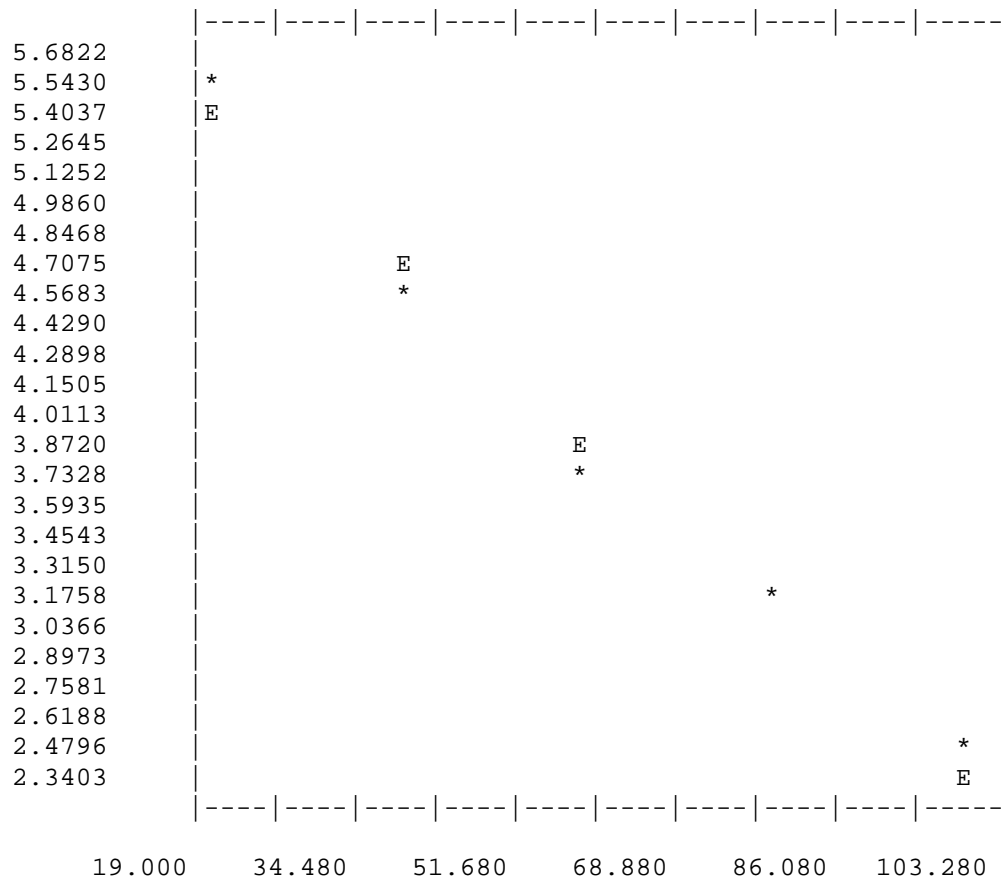
1.93

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.06932	-0.03752	0.99746	0.99493
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	223.	5.41165	5.31884
2	40.	91.	4.52179	4.56836
3	60.	40.	3.71357	3.81789
4	80.	20.	3.04452	3.06741
5	100.	10.	2.39790	2.31693



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.81

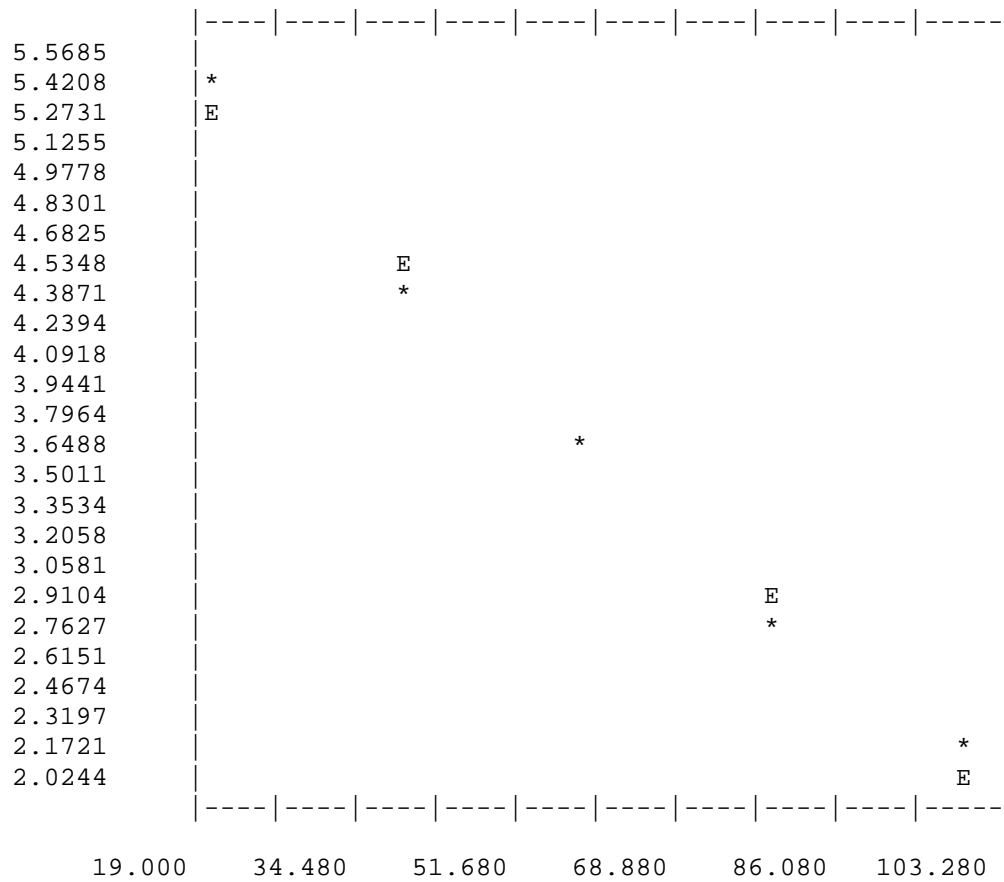
1.64

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.03006	-0.04055	0.99768	0.99537
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	200.	5.30330	5.21915
2	40.	78.	4.36945	4.40823
3	60.	33.	3.52636	3.59732
4	80.	14.	2.70805	2.78641
5	100.	7.	2.07944	1.97550



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.04

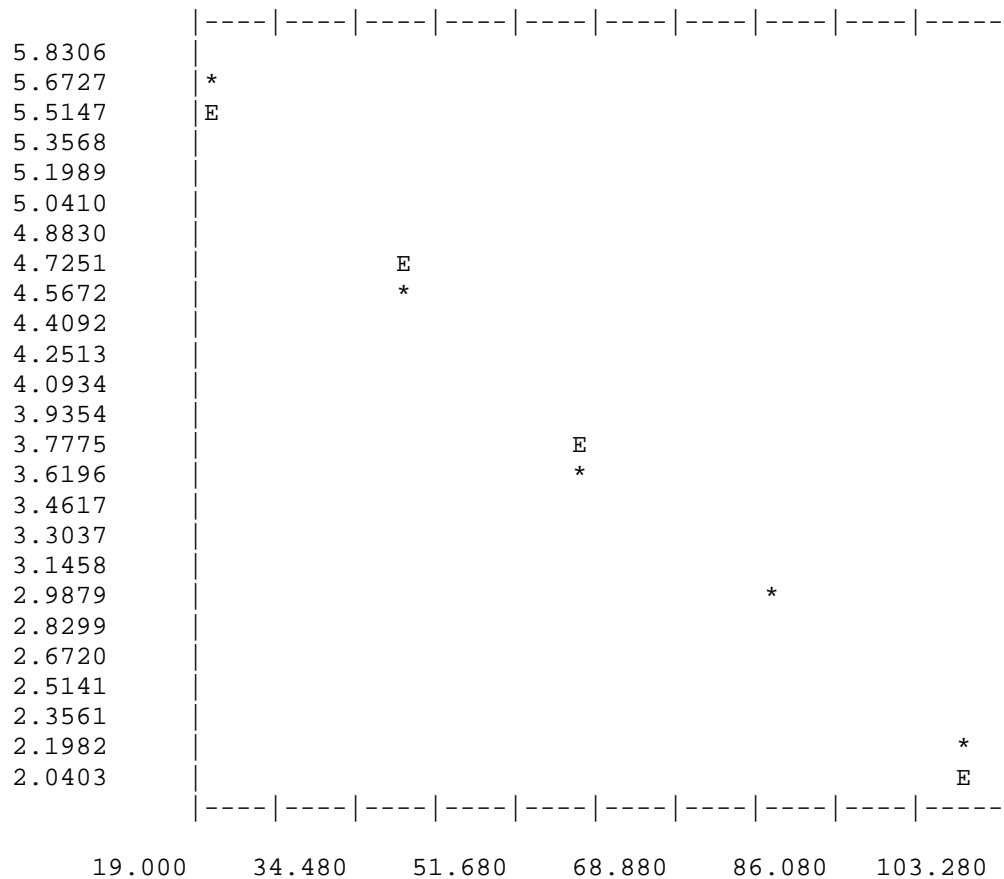
1.51

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.30999	-0.04329	0.99683	0.99368
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	257.	5.55296	5.44427
2	40.	93.	4.54329	4.57856
3	60.	34.	3.55535	3.71285
4	80.	16.	2.83321	2.84714
5	100.	7.	2.07944	1.98143



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.25

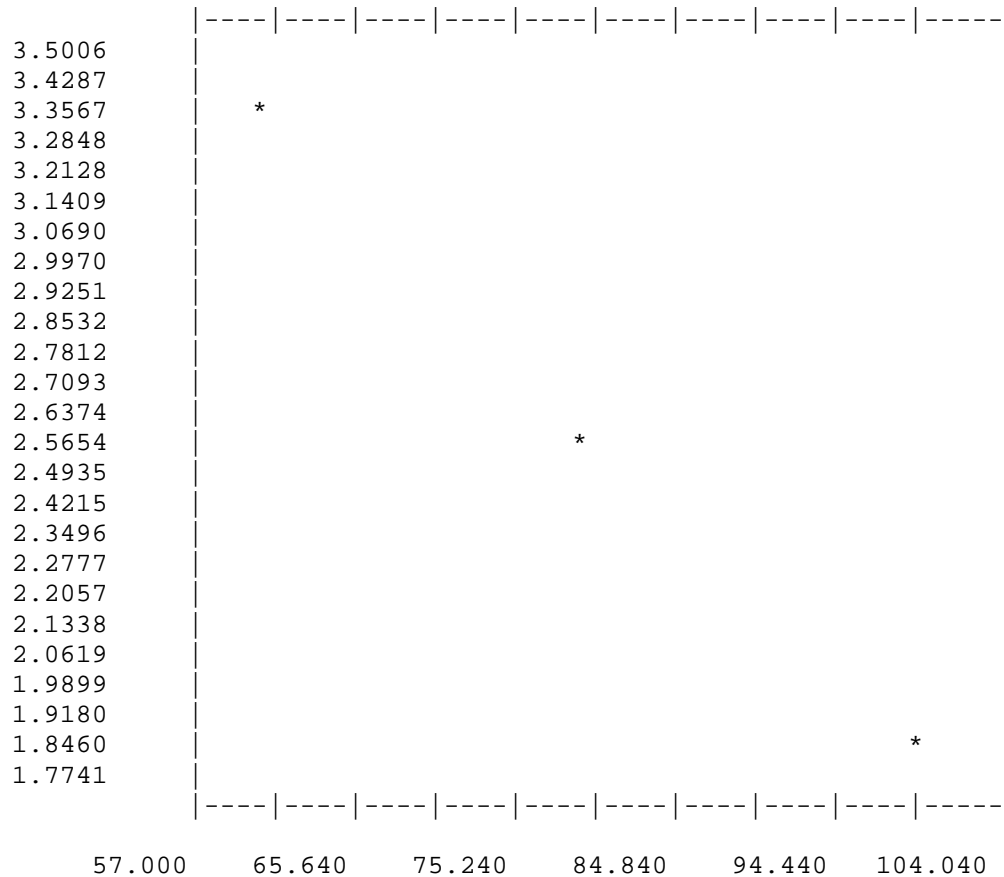
1.42

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.64584	-0.03853	1.00000	0.99999
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	60.	27.	3.33220	3.33390
2	80.	12.	2.56495	2.56325
3	80.	12.	2.56495	2.56325
4	100.	5.	1.79176	1.79261
5	100.	5.	1.79176	1.79261



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.54

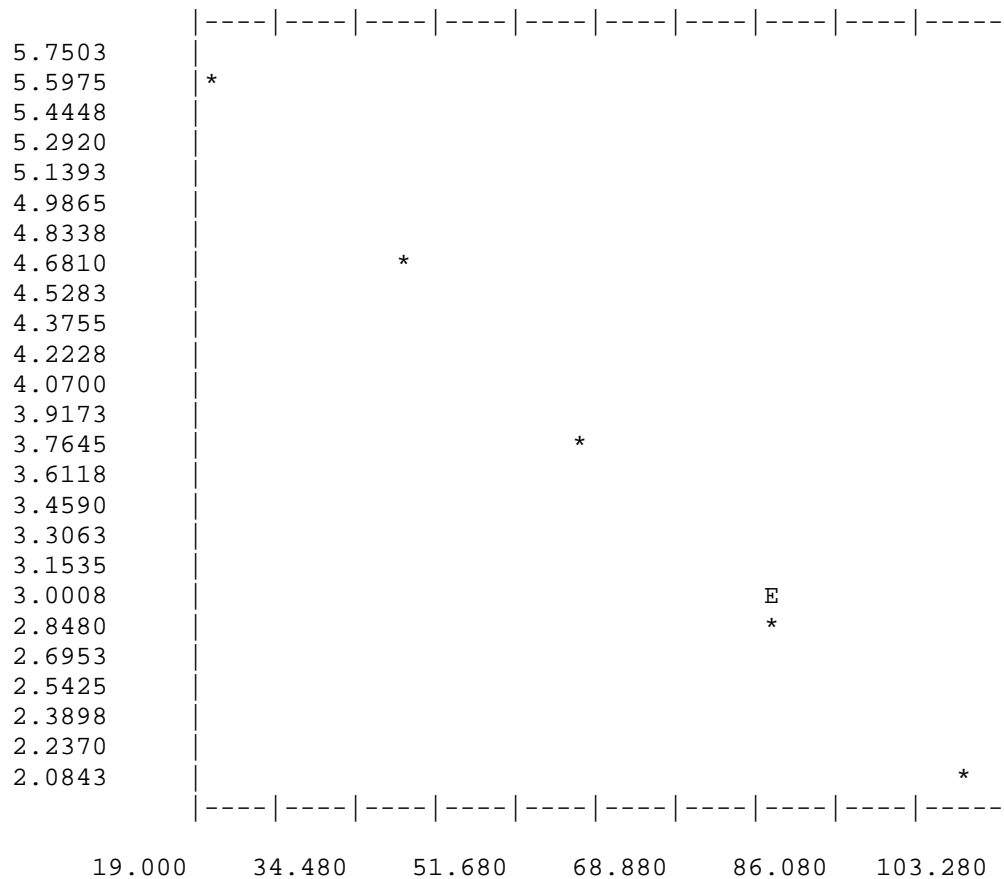
2.99

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.32609	-0.04293	0.99959	0.99918
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	238.	5.47646	5.46751
2	40.	101.	4.62497	4.60893
3	60.	41.	3.73767	3.75035
4	80.	16.	2.83321	2.89177
5	100.	7.	2.07944	2.03319



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.22

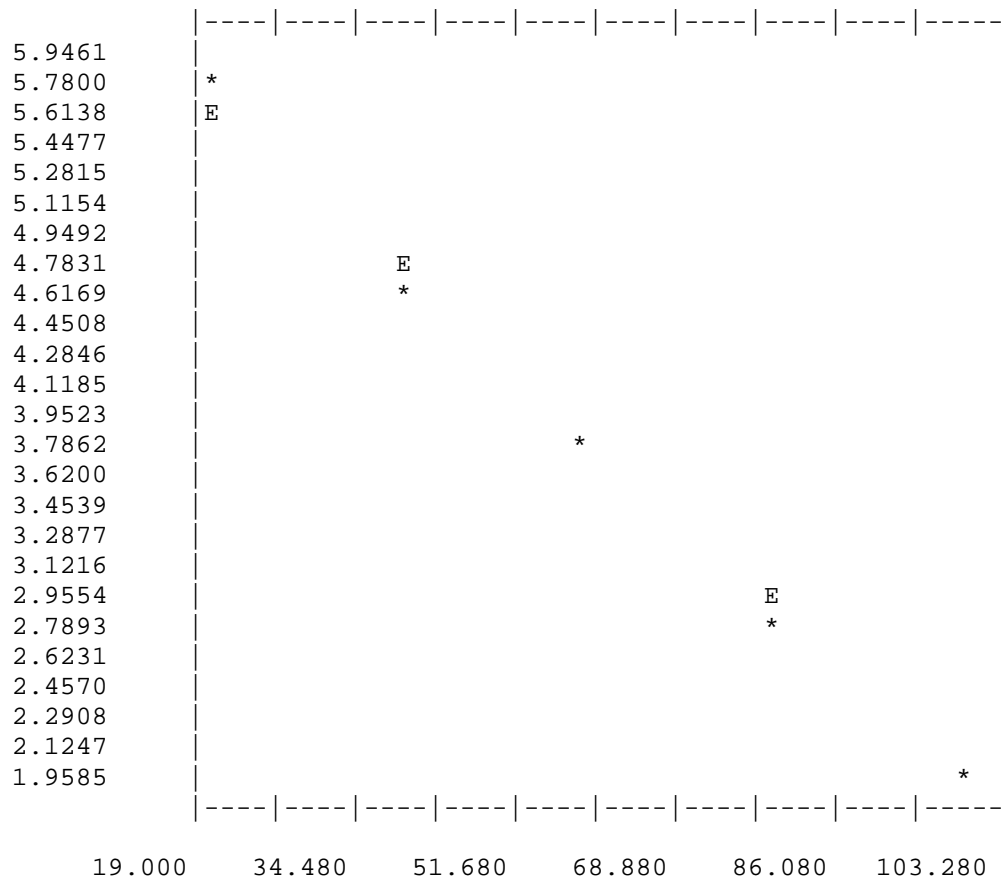
1.43

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.47835	-0.04592	0.99825	0.99650
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	287.	5.66296	5.56002
2	40.	91.	4.52179	4.64169
3	60.	40.	3.71357	3.72336
4	80.	15.	2.77259	2.80503
5	100.	6.	1.94591	1.88670



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.44

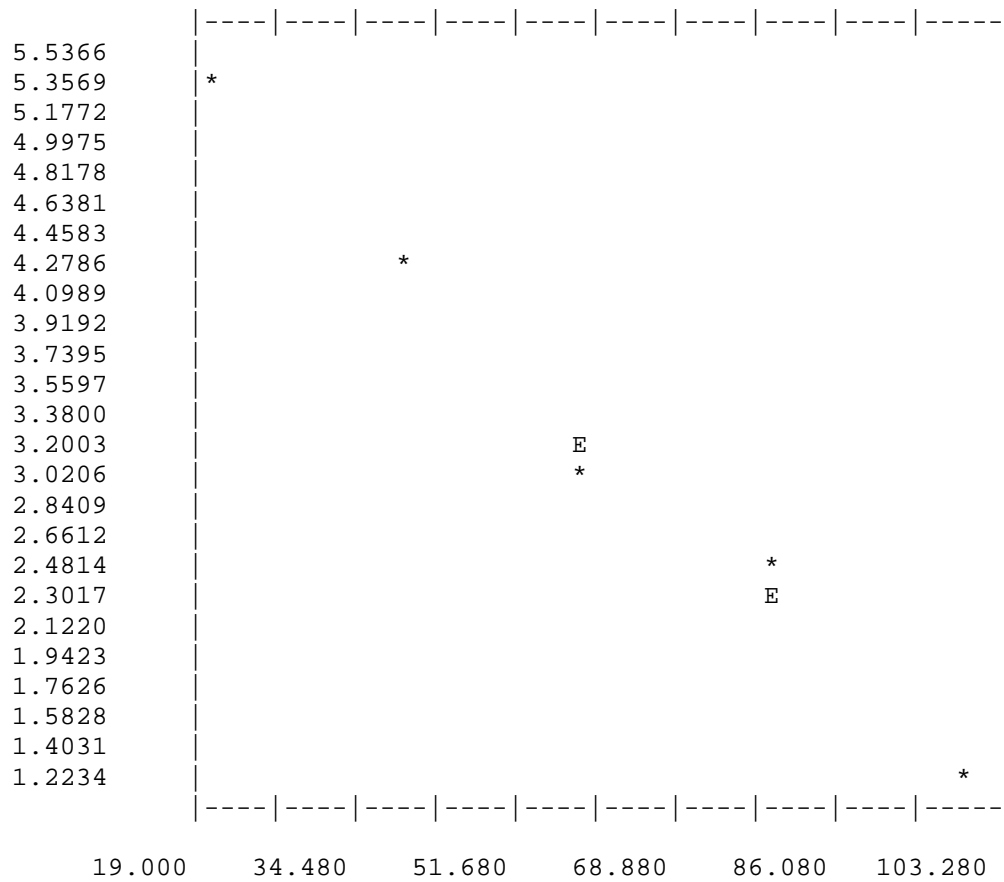
1.34

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.25019	-0.05125	0.99723	0.99447
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	194.	5.27300	5.22510
2	40.	66.	4.20469	4.20001
3	60.	19.	2.99573	3.17492
4	80.	9.	2.30259	2.14984
5	100.	2.	1.09861	1.12475



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.84

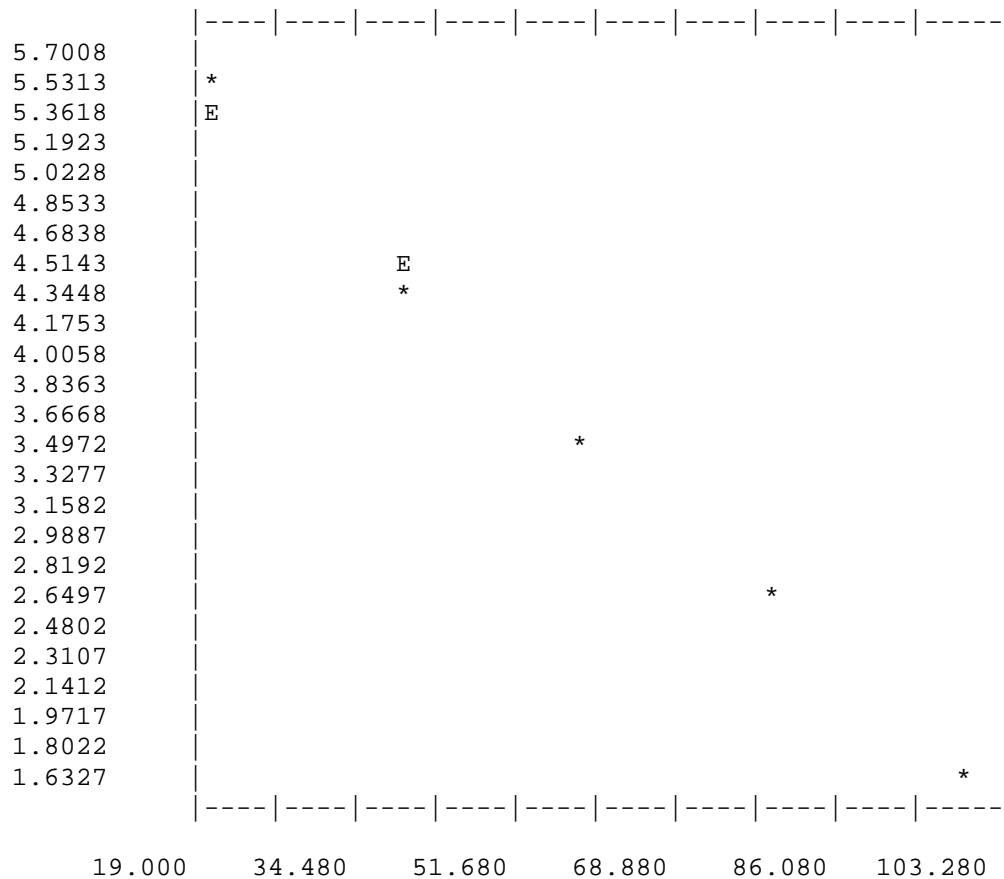
1.20

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.26968	-0.04729	0.99825	0.99651
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	227.	5.42935	5.32379
2	40.	73.	4.30407	4.37789
3	60.	27.	3.33220	3.43199
4	80.	11.	2.48491	2.48609
5	100.	4.	1.60944	1.54020



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.55

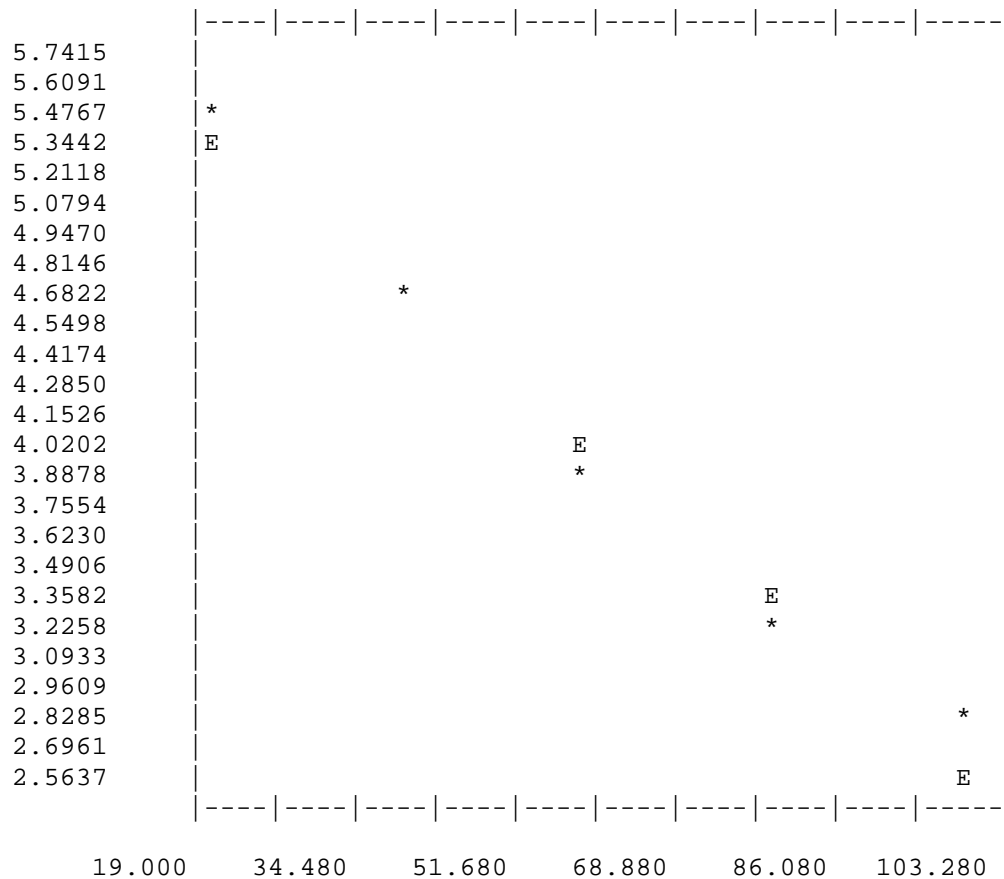
1.30

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.02782	-0.03469	0.99238	0.98483
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	236.	5.46806	5.33411
2	40.	98.	4.59512	4.64040
3	60.	43.	3.78419	3.94670
4	80.	23.	3.17805	3.25299
5	100.	14.	2.70805	2.55928



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.60

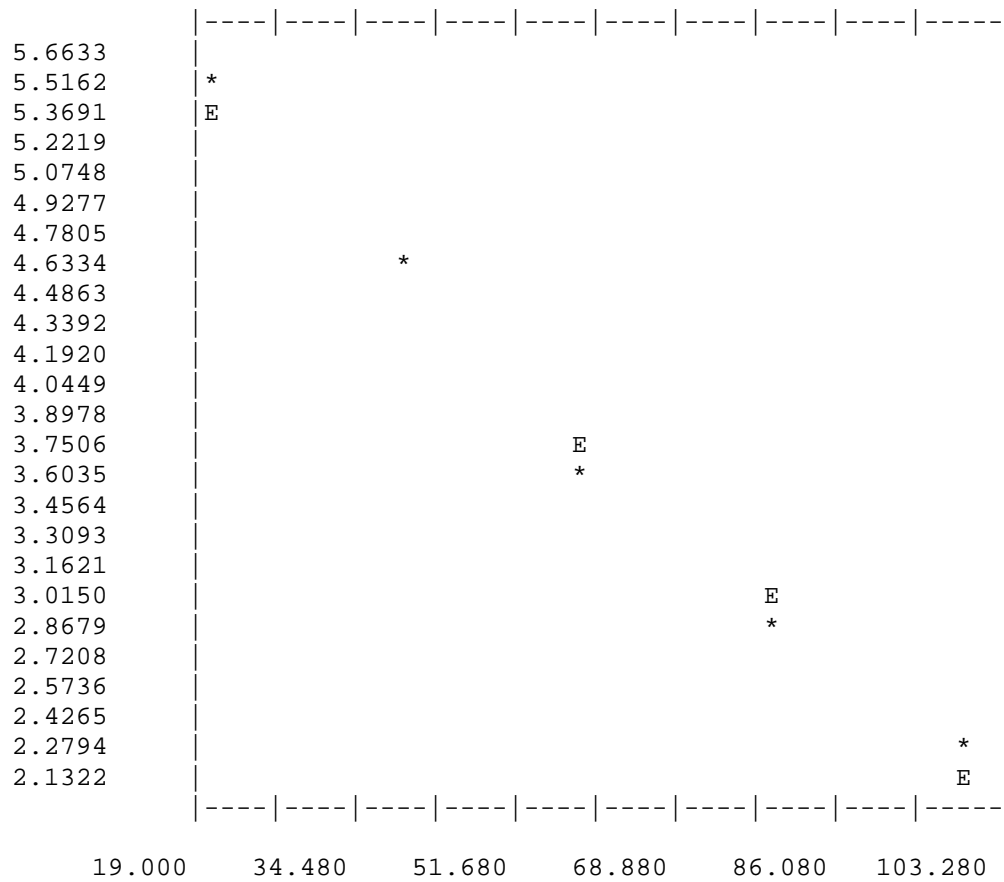
1.77

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.12482	-0.04035	0.99726	0.99453
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	219.	5.39363	5.31778
2	40.	90.	4.51086	4.51073
3	60.	35.	3.58352	3.70369
4	80.	16.	2.83321	2.89664
5	100.	8.	2.19722	2.08960



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.03

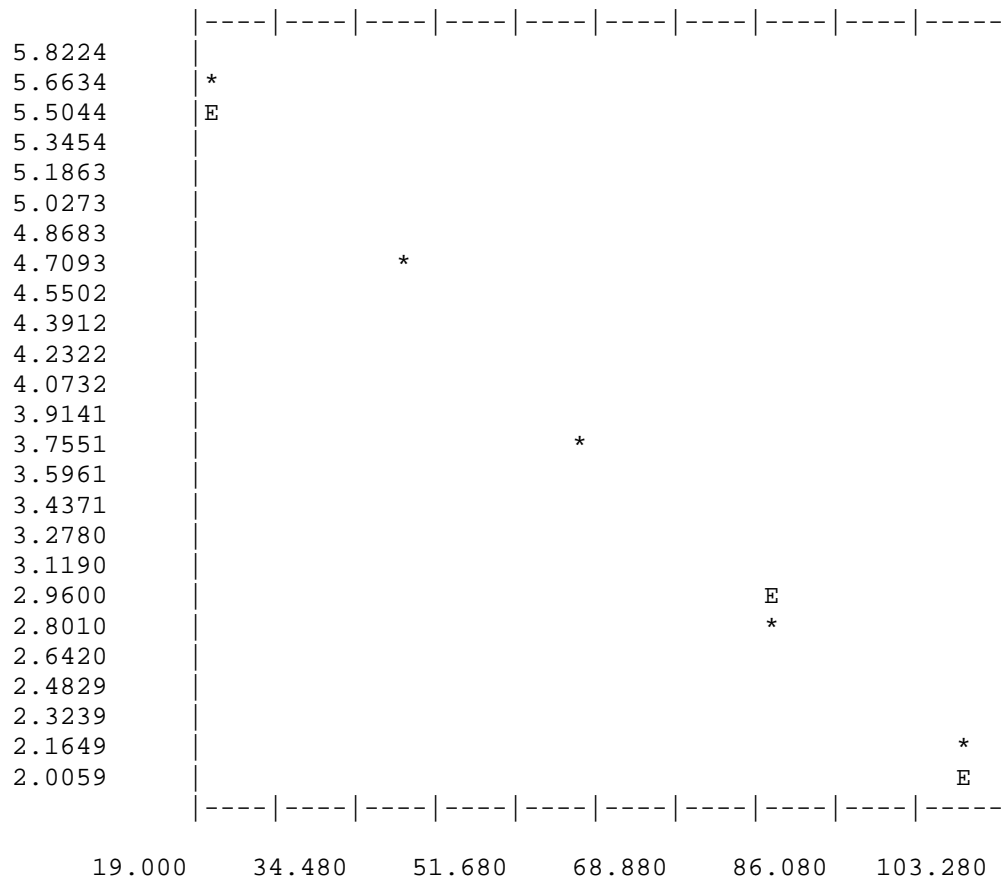
1.52

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.33268	-0.04389	0.99691	0.99383
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	255.	5.54518	5.45495
2	40.	94.	4.55388	4.57722
3	60.	36.	3.61092	3.69949
4	80.	14.	2.70805	2.82176
5	100.	7.	2.07944	1.94403



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.29

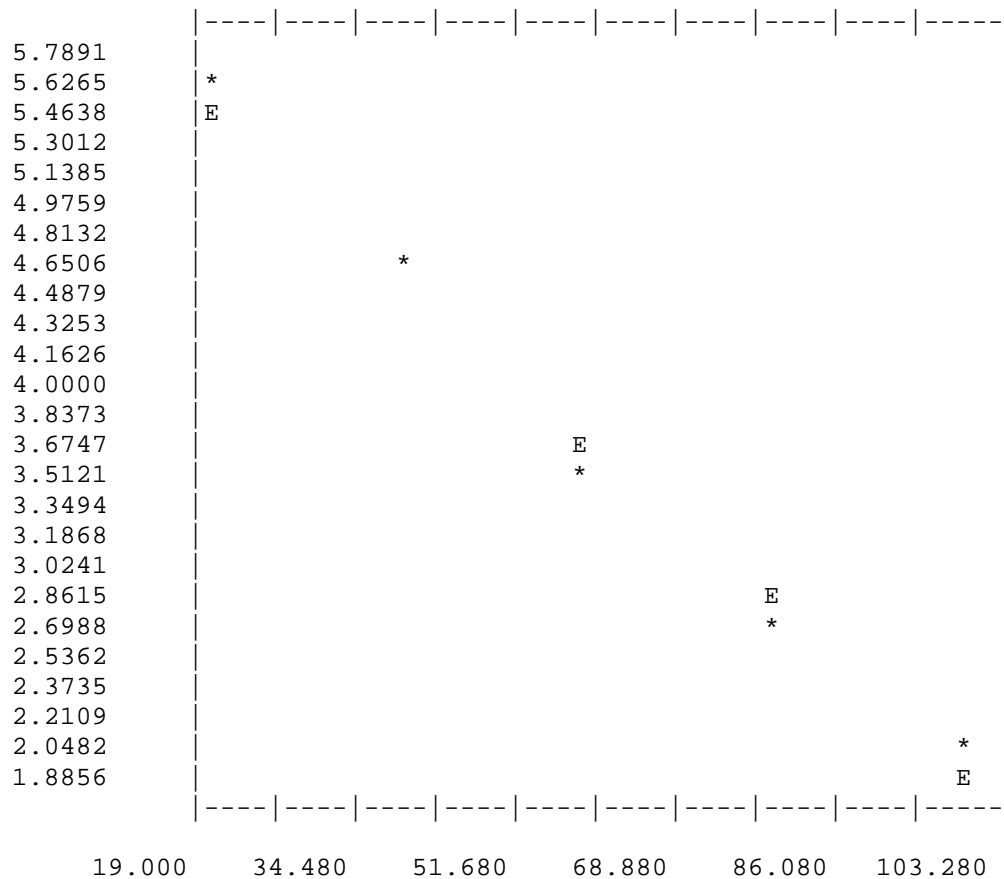
1.40

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.30594	-0.04492	0.99658	0.99318
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	247.	5.51343	5.40748
2	40.	88.	4.48864	4.50902
3	60.	31.	3.46574	3.61055
4	80.	13.	2.63906	2.71209
5	100.	6.	1.94591	1.81363



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.37

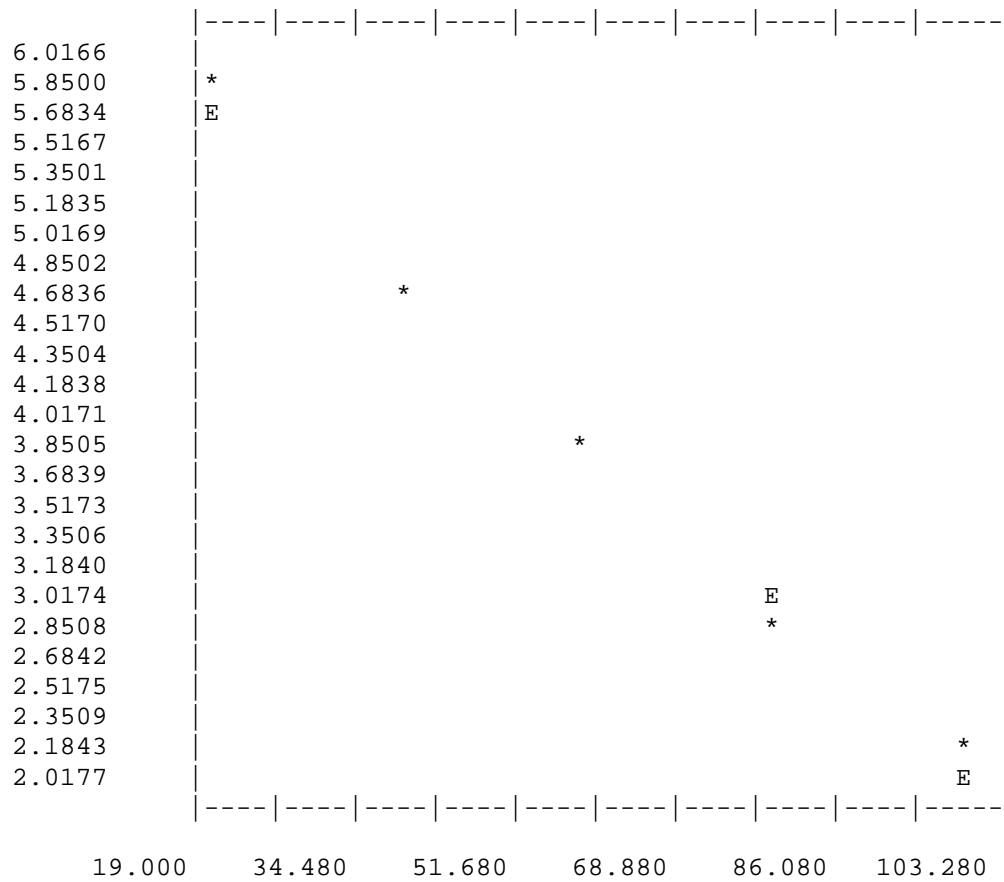
1.37

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.48447	-0.04536	0.99584	0.99169
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	307.	5.73010	5.57727
2	40.	93.	4.54329	4.67006
3	60.	39.	3.68888	3.76286
4	80.	15.	2.77259	2.85566
5	100.	7.	2.07944	1.94846



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.40

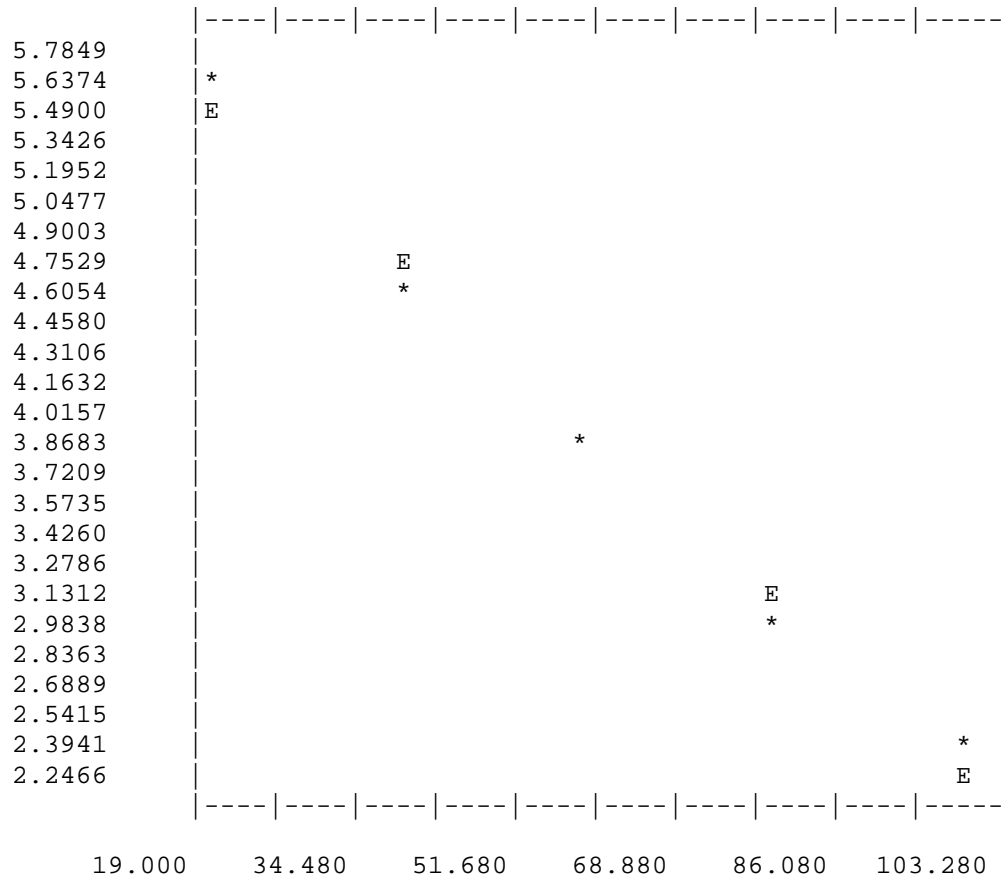
1.35

LIGHT PROFILE ANALYSES - FOR 8/27/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.23676	-0.04027	0.99809	0.99618
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	246.	5.50939	5.43134
2	40.	97.	4.58497	4.62593
3	60.	42.	3.76120	3.82052
4	80.	18.	2.94444	3.01510
5	100.	9.	2.30259	2.20969



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.02

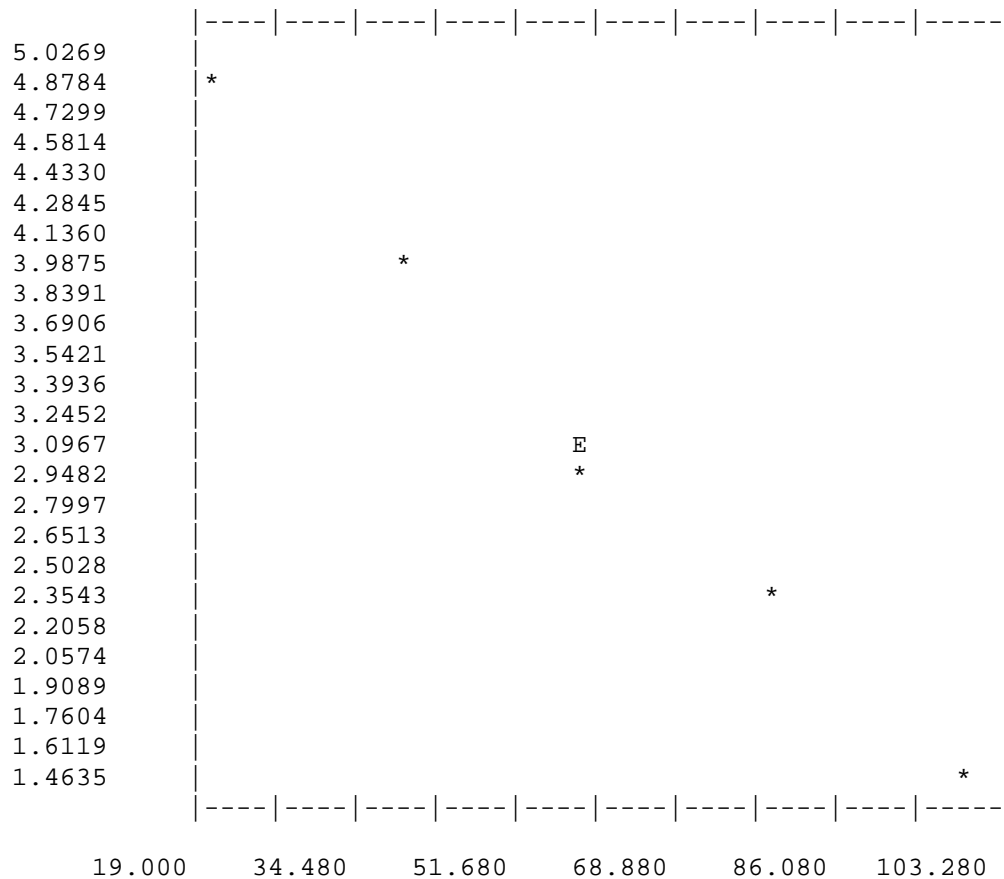
1.52

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.56971	-0.04186	0.99835	0.99670
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	119.	4.78749	4.73260
2	40.	47.	3.87120	3.89550
3	60.	18.	2.94444	3.05840
4	80.	9.	2.30259	2.22130
5	100.	3.	1.38629	1.38420



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.14

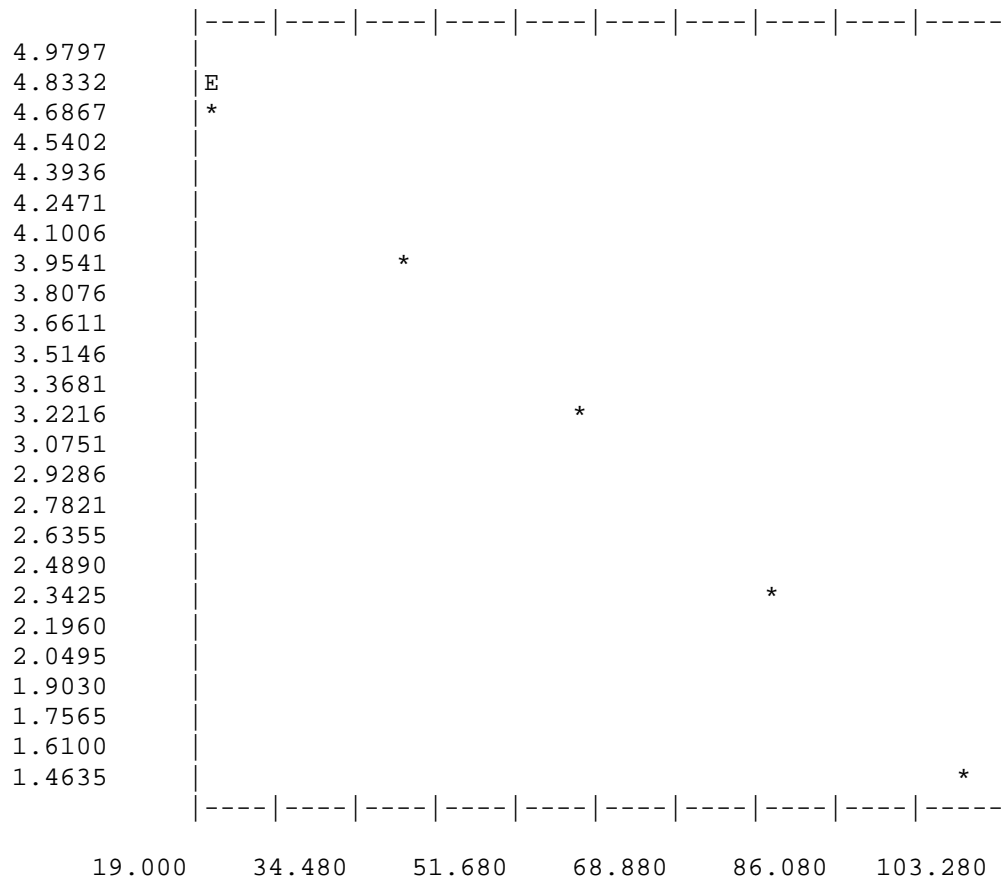
1.47

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.57525	-0.04164	0.99859	0.99718
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	106.	4.67283	4.74255
2	40.	51.	3.95124	3.90984
3	60.	23.	3.17805	3.07713
4	80.	8.	2.19722	2.24442
5	100.	3.	1.38629	1.41171



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.12

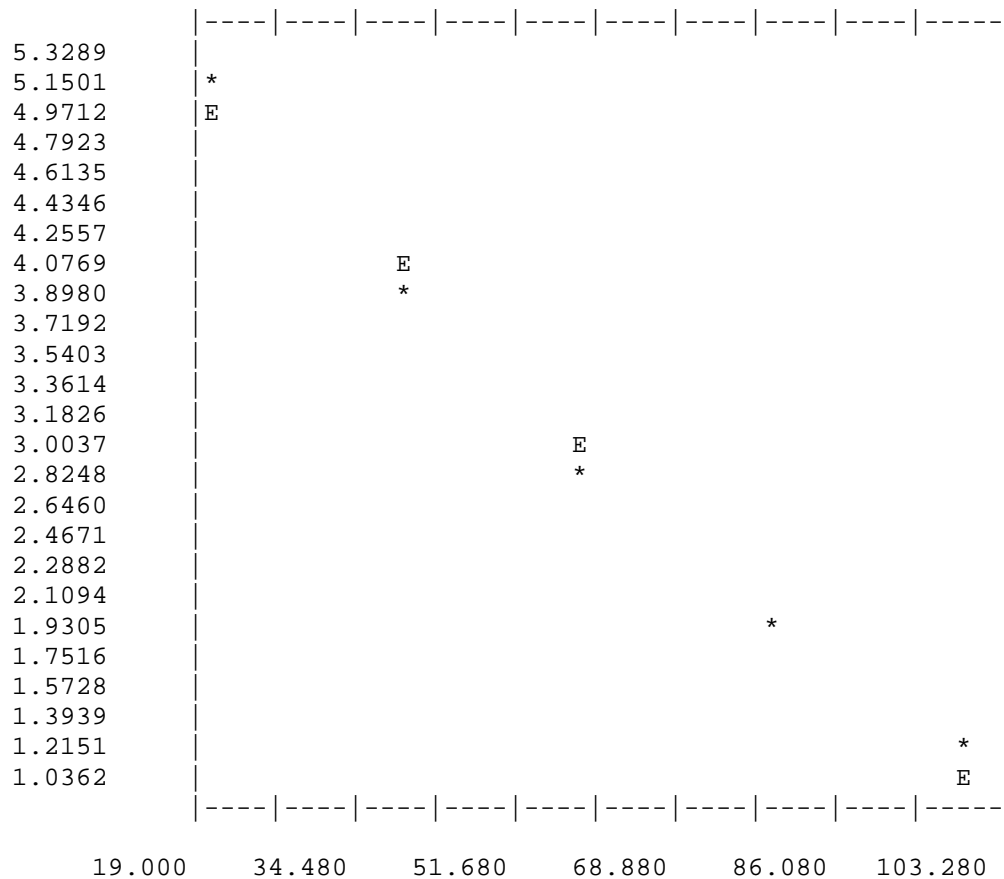
1.47

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.90820	-0.05006	0.99402	0.98807
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	159.	5.07517	4.90705
2	40.	46.	3.85015	3.90590
3	60.	14.	2.70805	2.90475
4	80.	5.	1.79176	1.90360
5	100.	2.	1.09861	0.90245



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.75

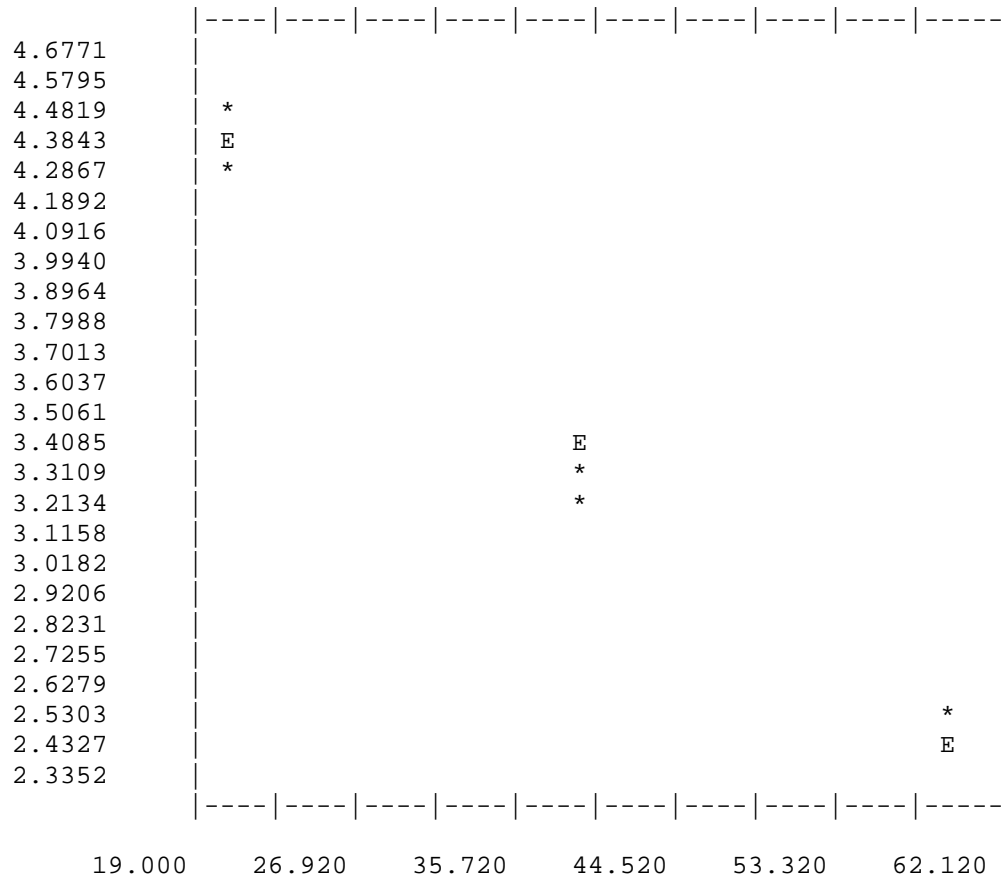
1.23

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.27342	-0.04863	0.98607	0.97234
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	85.	4.45435	4.30072
2	20.	71.	4.27667	4.30072
3	40.	24.	3.21888	3.32803
4	40.	23.	3.17805	3.32803
5	60.	11.	2.48491	2.35534



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.43

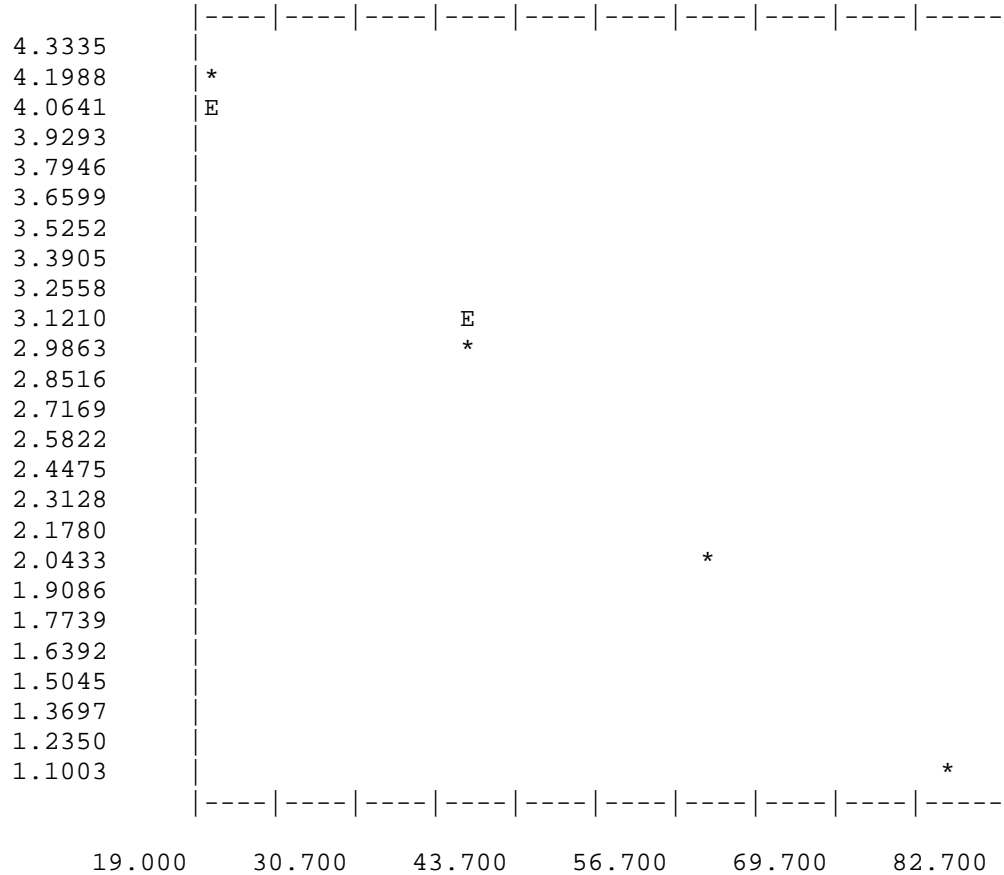
1.89

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	5.05005	-0.05042	0.99724	0.99449
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	61.	4.12713	4.04164
2	40.	18.	2.94444	3.03323
3	60.	6.	1.94591	2.02482
4	80.	2.	1.09861	1.01641



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.78

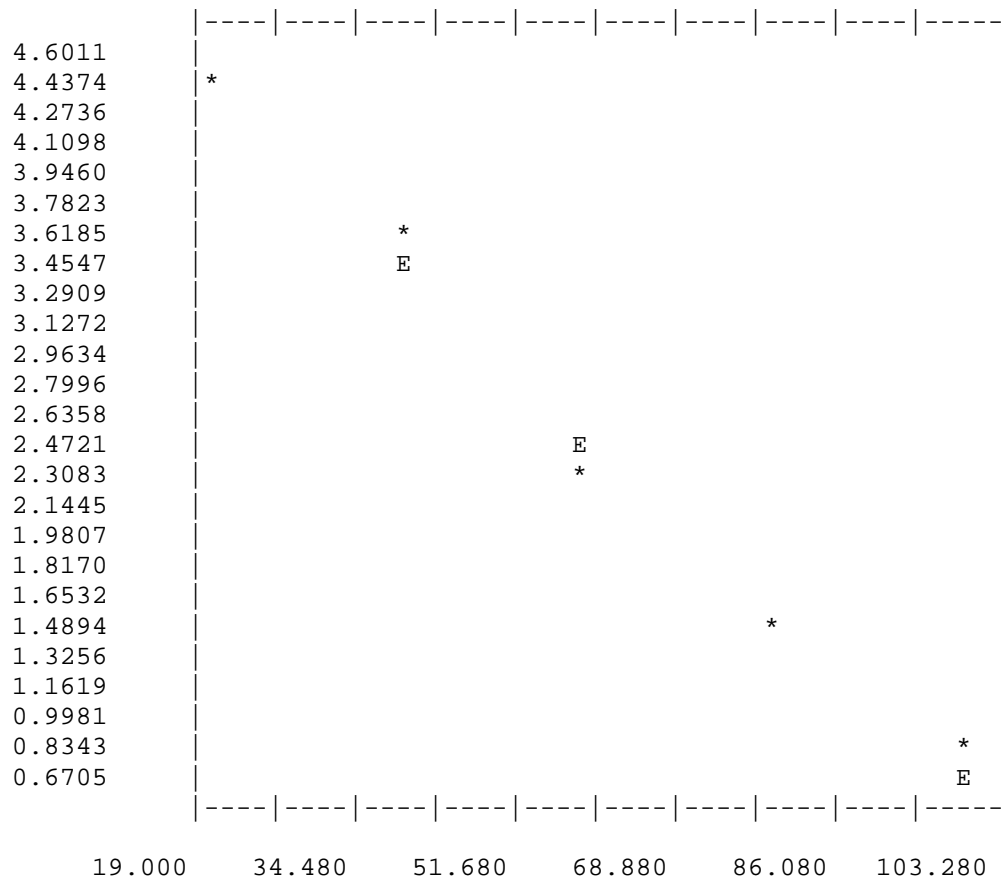
1.22

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.29236	-0.04759	0.99380	0.98763
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	79.	4.38203	4.34058
2	40.	33.	3.52636	3.38879
3	60.	8.	2.19722	2.43701
4	80.	3.	1.38629	1.48523
5	100.	1.	0.69315	0.53345



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.57

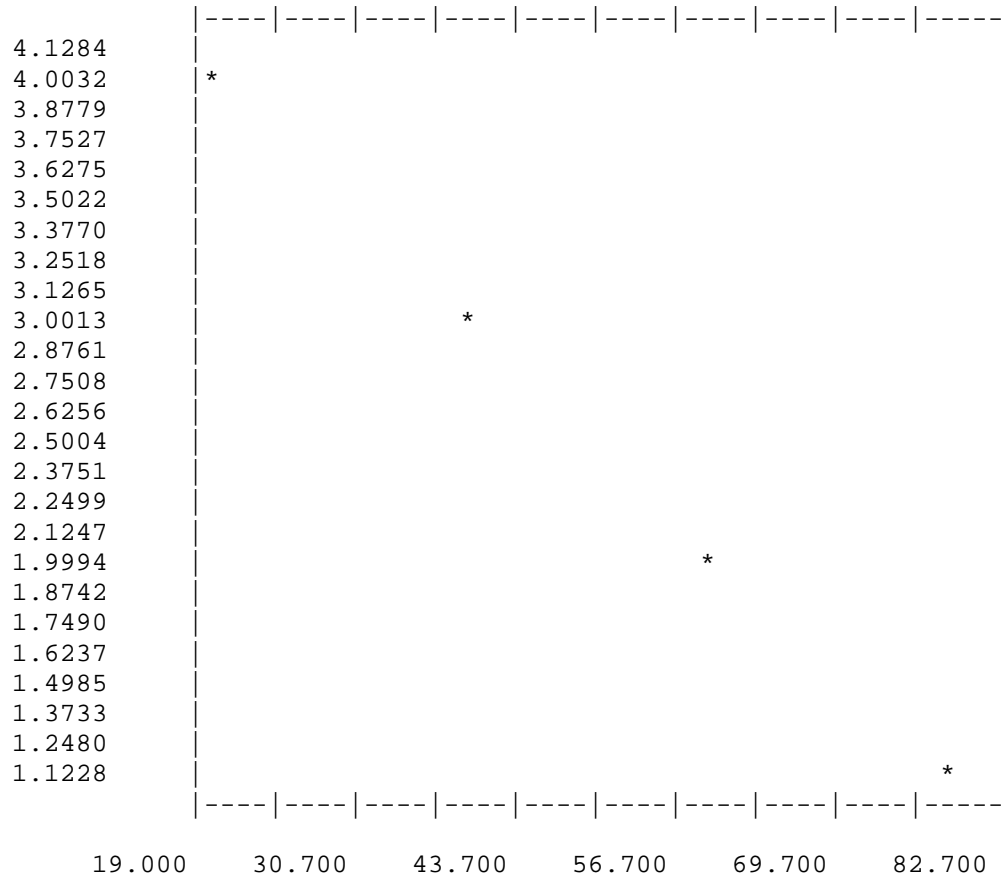
1.29

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.82771	-0.04722	0.99895	0.99789
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	50.	3.93183	3.88330
2	40.	17.	2.89037	2.93889
3	60.	6.	1.94591	1.99447
4	80.	2.	1.09861	1.05006



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.54

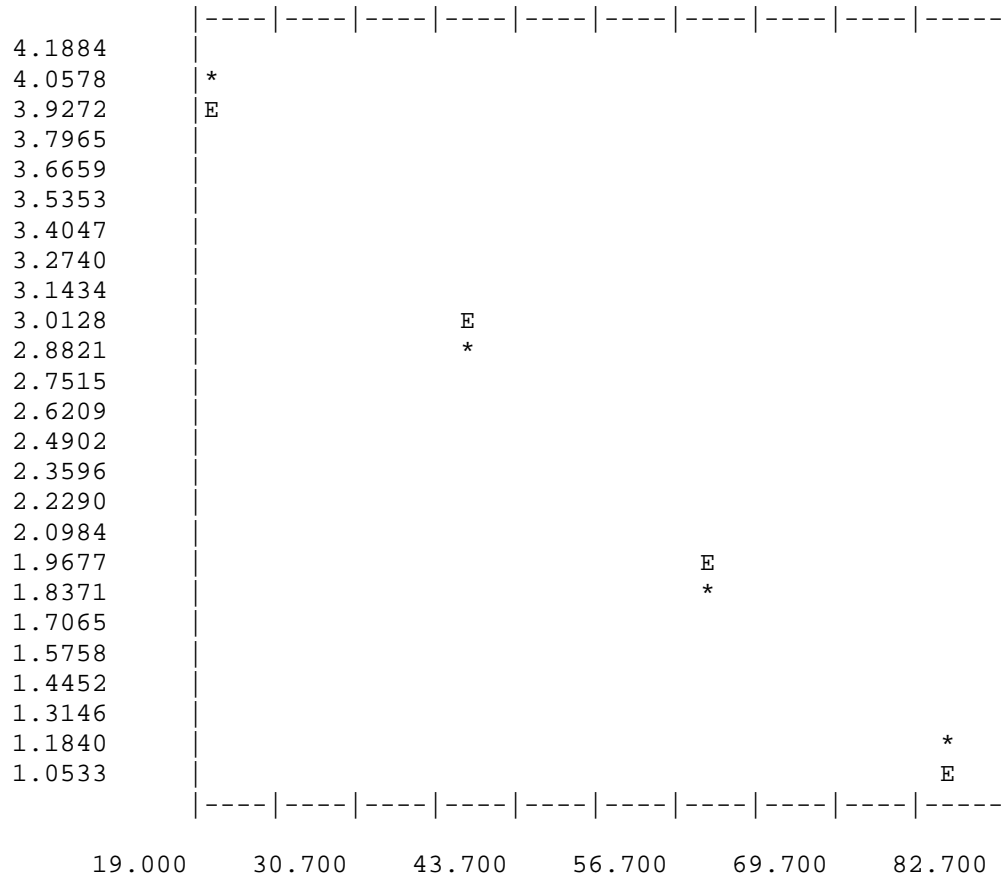
1.30

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.85628	-0.04856	0.99409	0.98821
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	53.	3.98898	3.88503
2	40.	16.	2.83321	2.91377
3	60.	5.	1.79176	1.94251
4	80.	2.	1.09861	0.97126



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.64

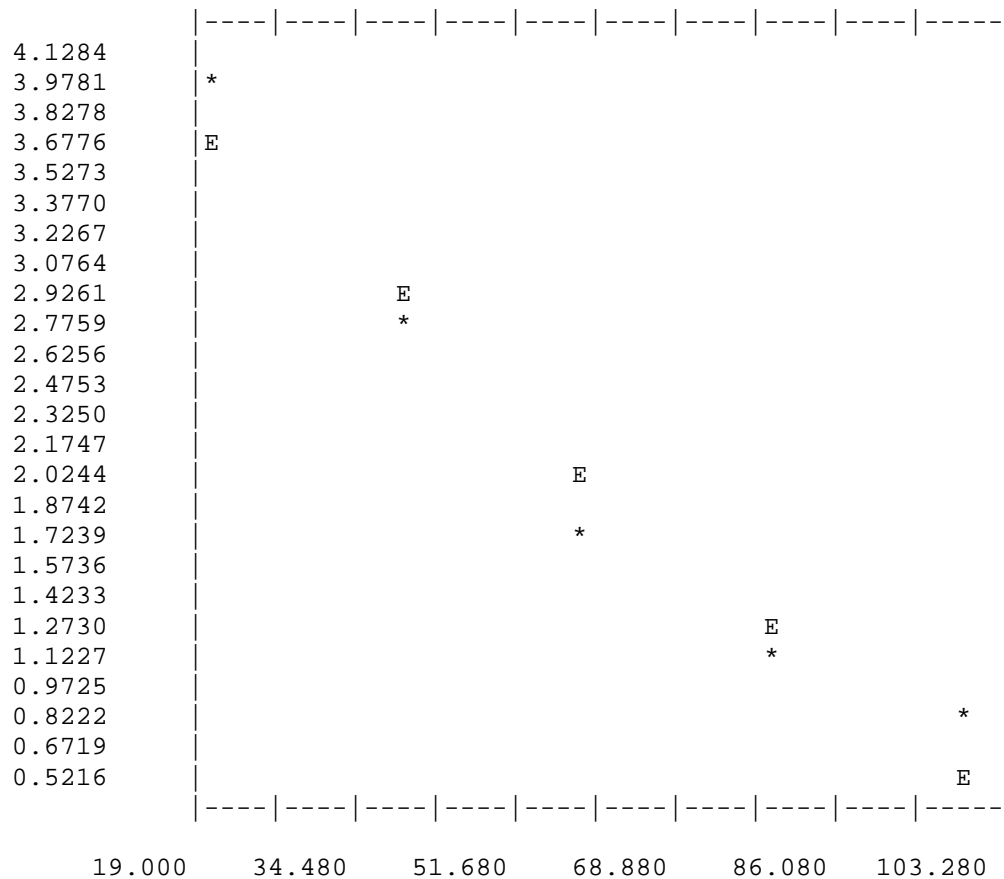
1.26

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.39976	-0.04009	0.97137	0.94355
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	50.	3.93183	3.59798
2	40.	13.	2.63906	2.79620
3	60.	4.	1.60944	1.99442
4	80.	2.	1.09861	1.19264
5	100.	1.	0.69315	0.39086



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.01

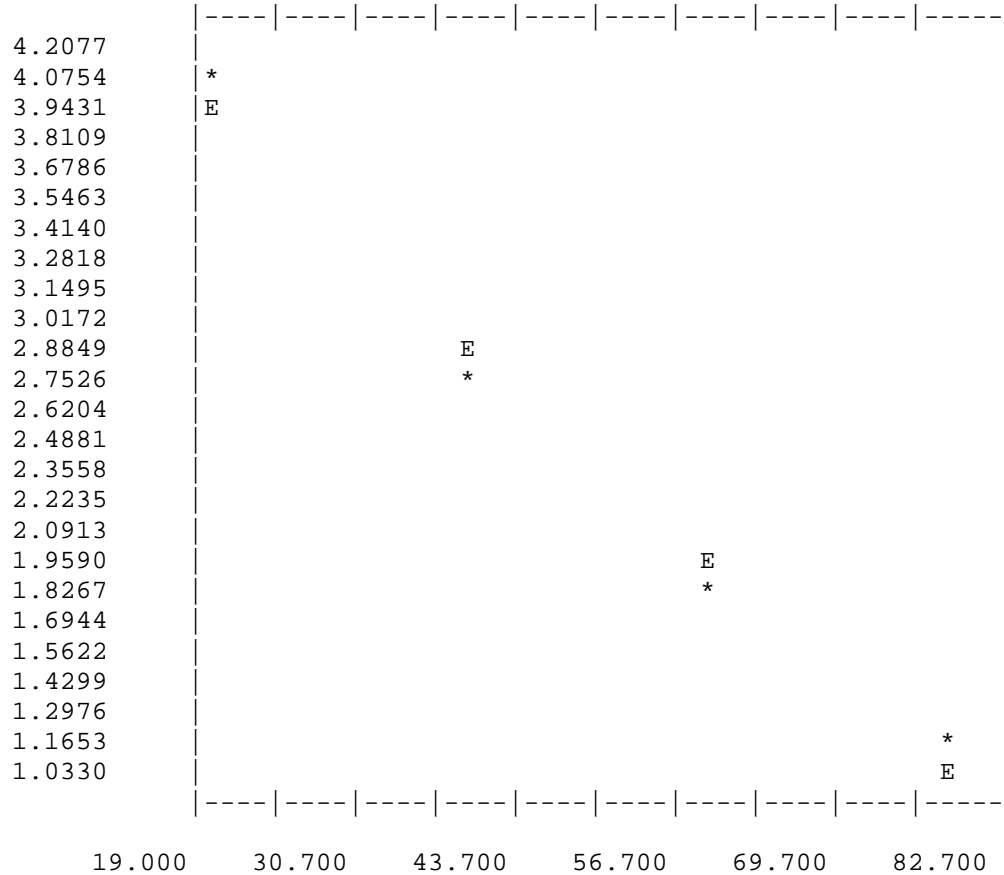
1.53

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.77756	-0.04787	0.98709	0.97434
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	54.	4.00733	3.82021
2	40.	13.	2.63906	2.86286
3	60.	5.	1.79176	1.90552
4	80.	2.	1.09861	0.94817



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.59

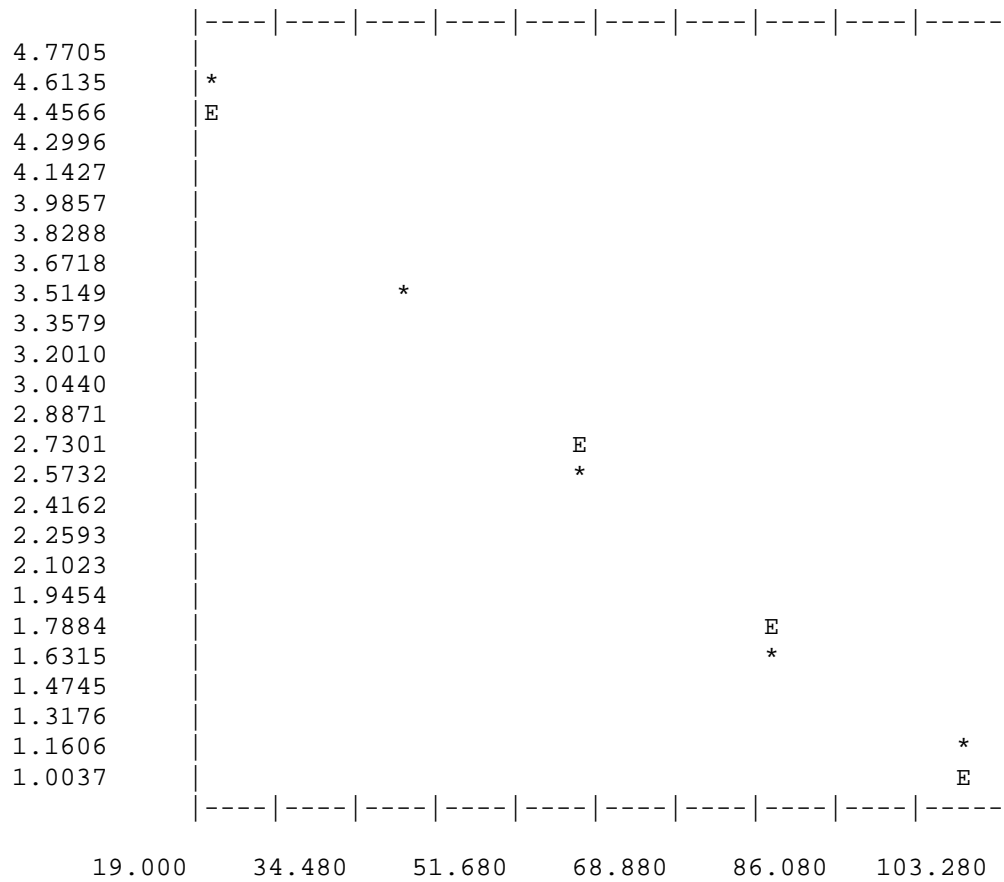
1.28

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.23183	-0.04341	0.99168	0.98343
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	93.	4.54329	4.36371
2	40.	29.	3.40120	3.49560
3	60.	11.	2.48491	2.62749
4	80.	4.	1.60944	1.75938
5	100.	2.	1.09861	0.89126



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.26

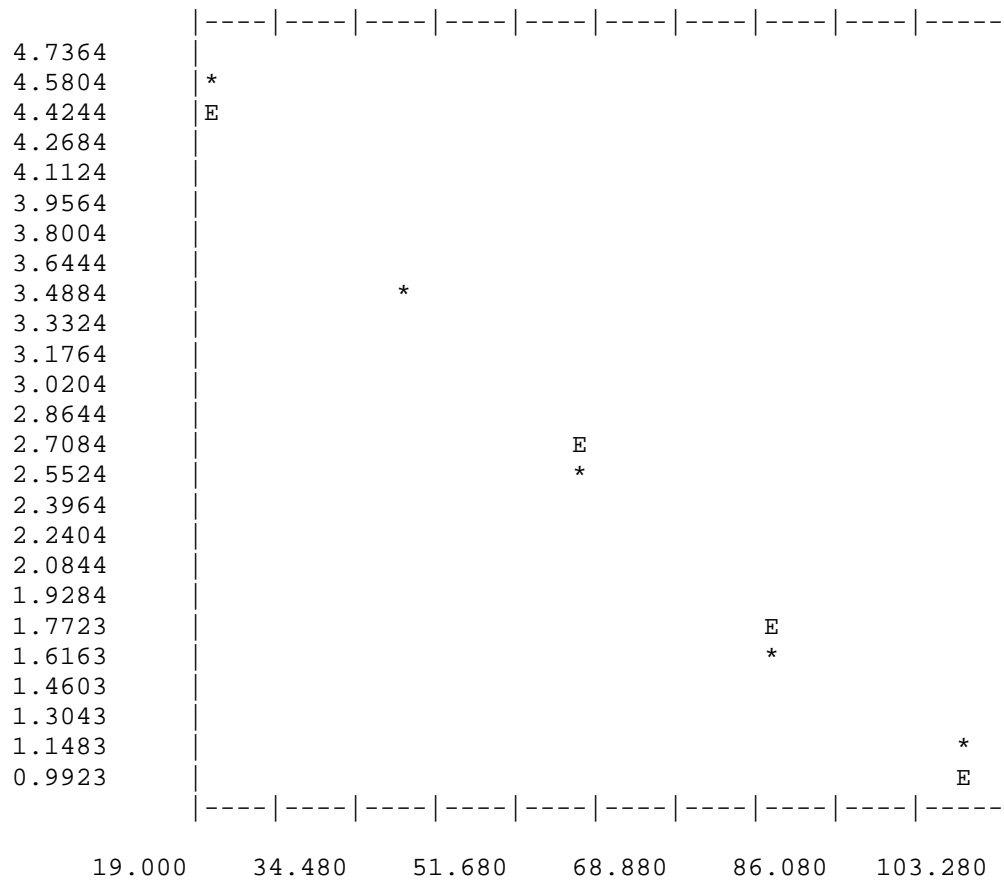
1.41

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.20487	-0.04325	0.99064	0.98137
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	90.	4.51086	4.33997
2	40.	30.	3.43399	3.47506
3	60.	10.	2.39790	2.61016
4	80.	4.	1.60944	1.74525
5	100.	2.	1.09861	0.88035



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.24

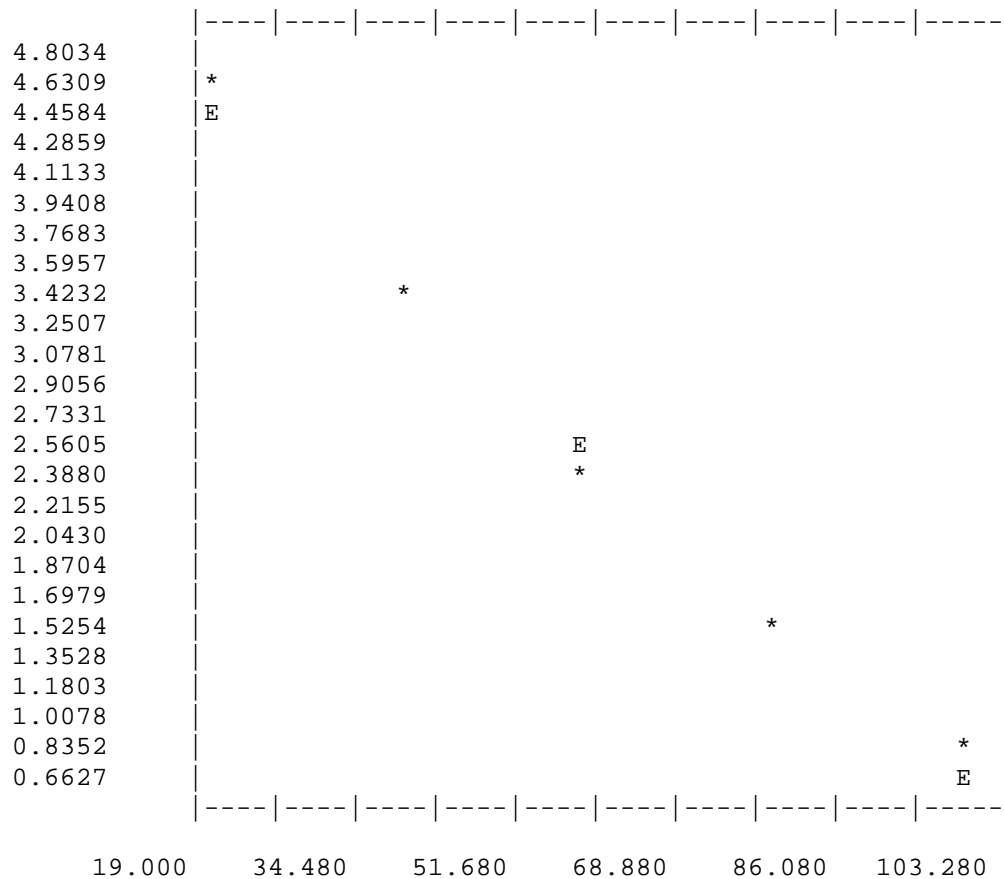
1.42

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.35232	-0.04836	0.99399	0.98801
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	96.	4.57471	4.38505
2	40.	26.	3.29584	3.41778
3	60.	9.	2.30259	2.45052
4	80.	3.	1.38629	1.48325
5	100.	1.	0.69315	0.51598



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.63

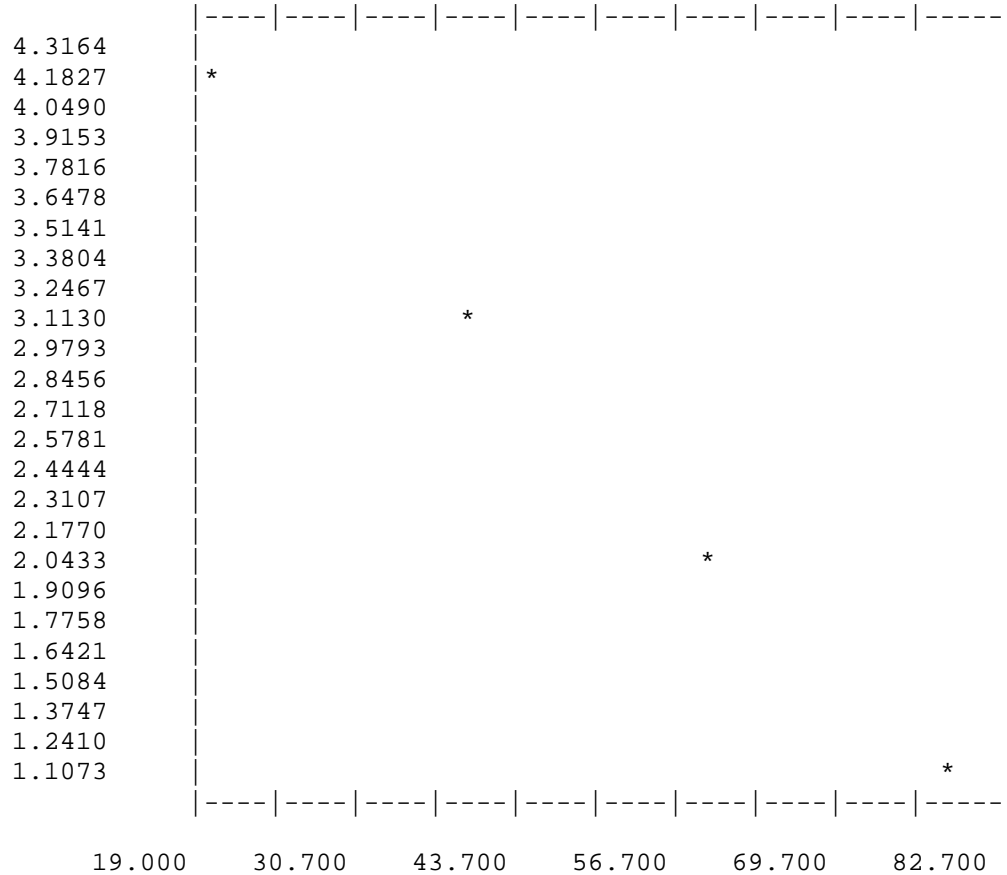
1.27

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.05943	-0.05043	0.99815	0.99630
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	60.	4.11087	4.05077
2	40.	19.	2.99573	3.04211
3	60.	6.	1.94591	2.03345
4	80.	2.	1.09861	1.02479



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.78

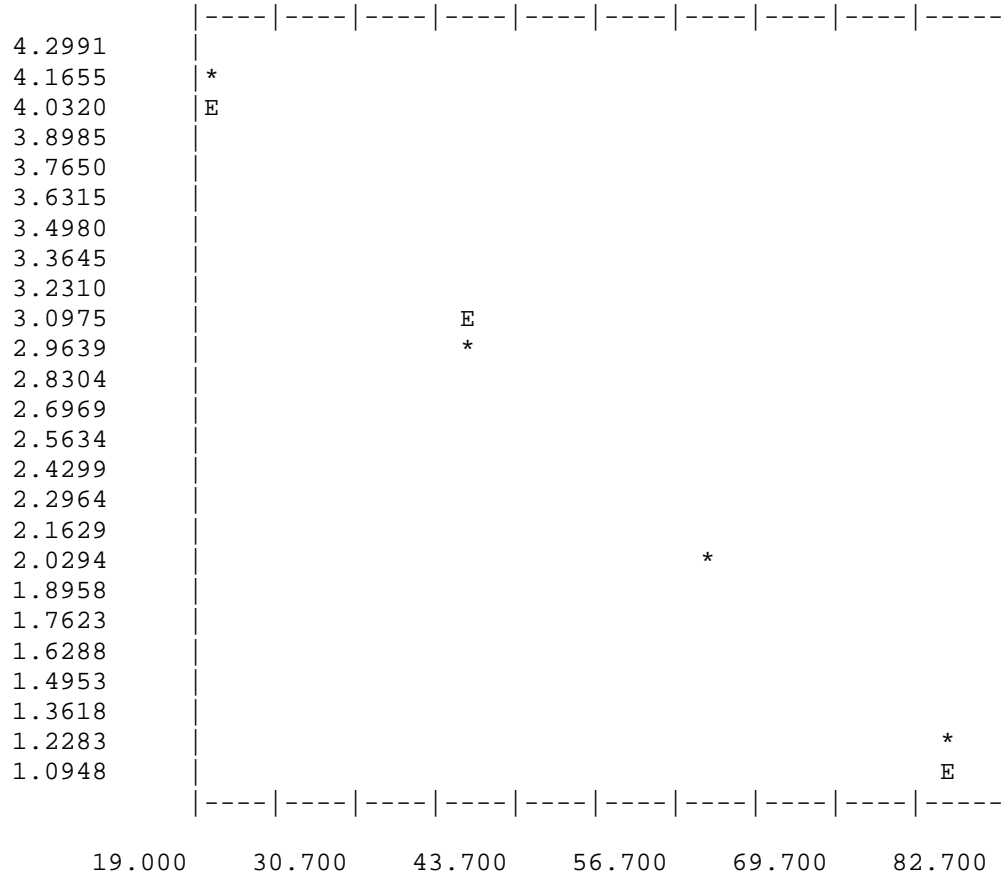
1.22

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.96165	-0.04937	0.99507	0.99017
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	59.	4.09434	3.97420
2	40.	16.	2.83321	2.98675
3	60.	6.	1.94591	1.99929
4	80.	2.	1.09861	1.01184



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.70

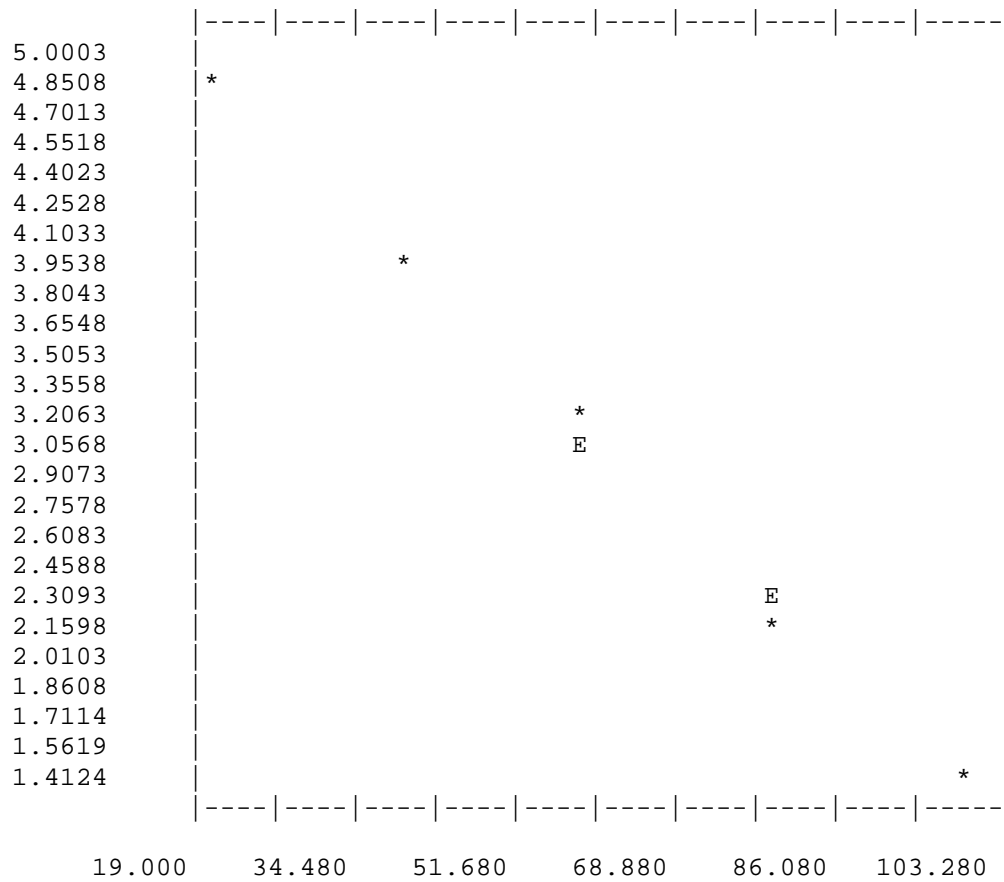
1.24

LIGHT PROFILE ANALYSES - FOR 9/26/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.57981	-0.04250	0.99857	0.99714
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	116.	4.76217	4.72971
2	40.	45.	3.82864	3.87961
3	60.	21.	3.09104	3.02952
4	80.	7.	2.07944	2.17942
5	100.	3.	1.38629	1.32933



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

3.19

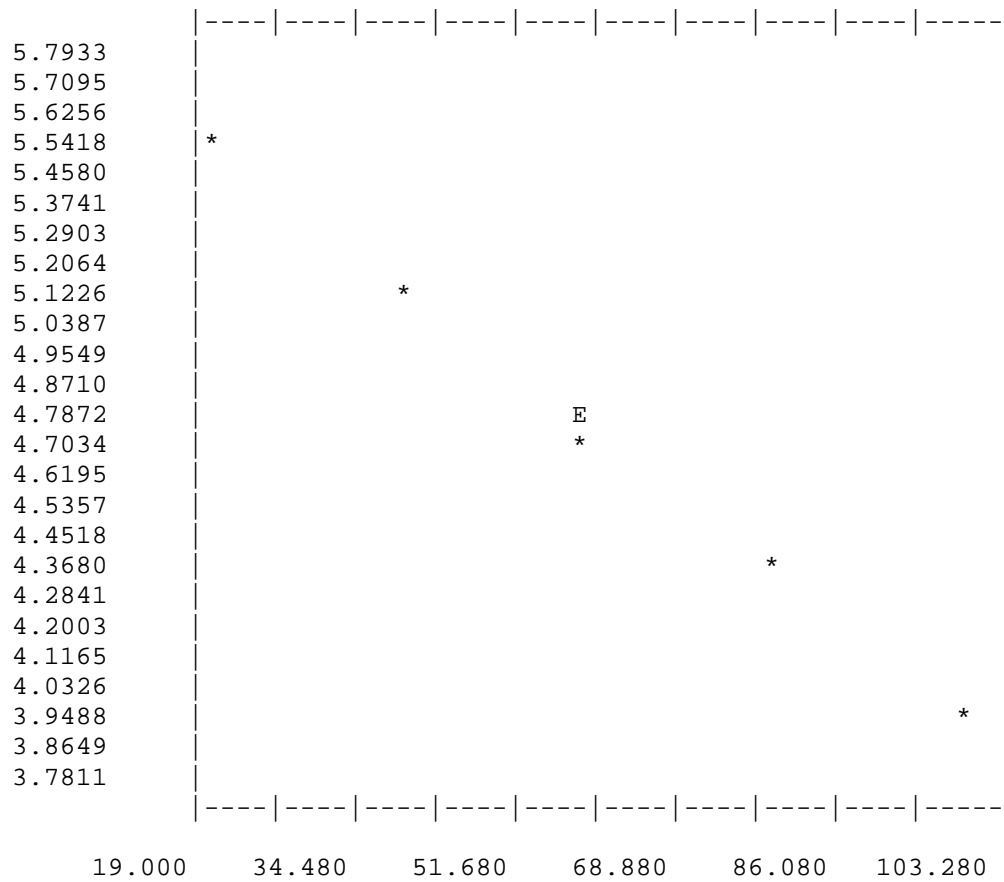
1.44

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.92292	-0.02030	0.99999	0.99997
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	248.	5.51745	5.51700
2	40.	165.	5.11199	5.11108
3	60.	109.	4.70048	4.70516
4	80.	73.	4.30407	4.29924
5	100.	48.	3.89182	3.89332



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.52

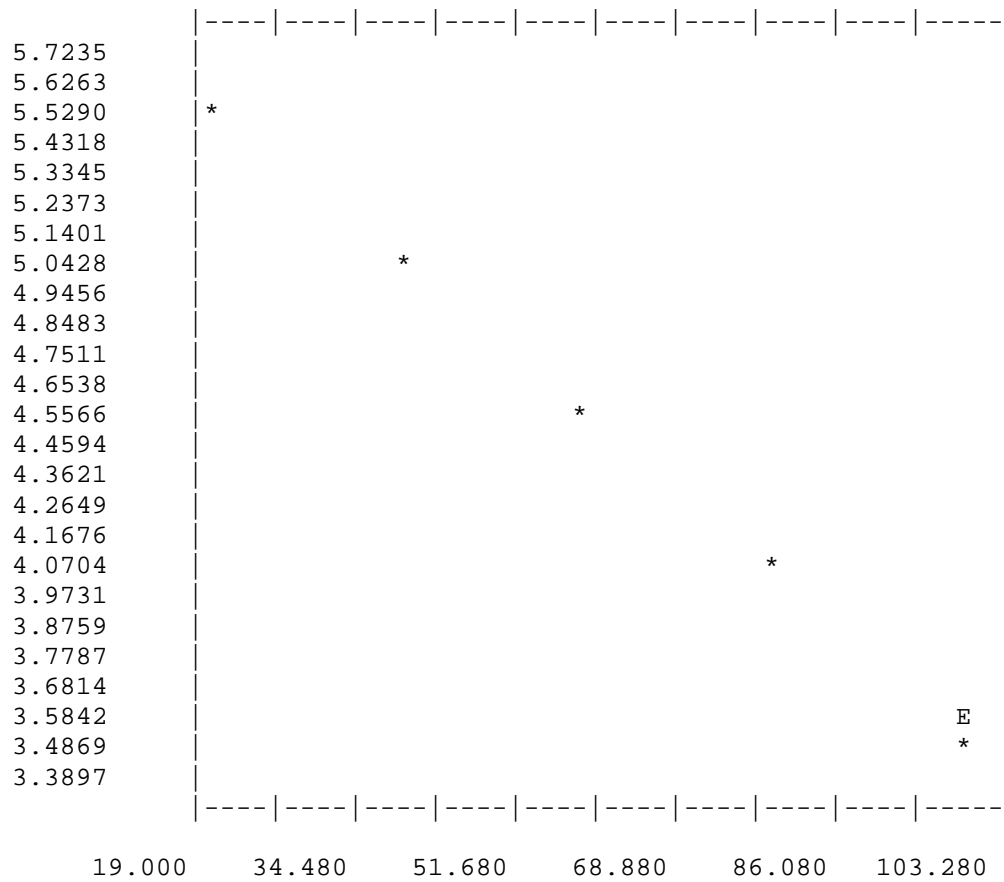
3.03

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.93970	-0.02444	0.99935	0.99869
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	228.	5.43372	5.45096
2	40.	144.	4.97673	4.96223
3	60.	86.	4.46591	4.47349
4	80.	55.	4.02535	3.98475
5	100.	31.	3.46574	3.49602



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.83

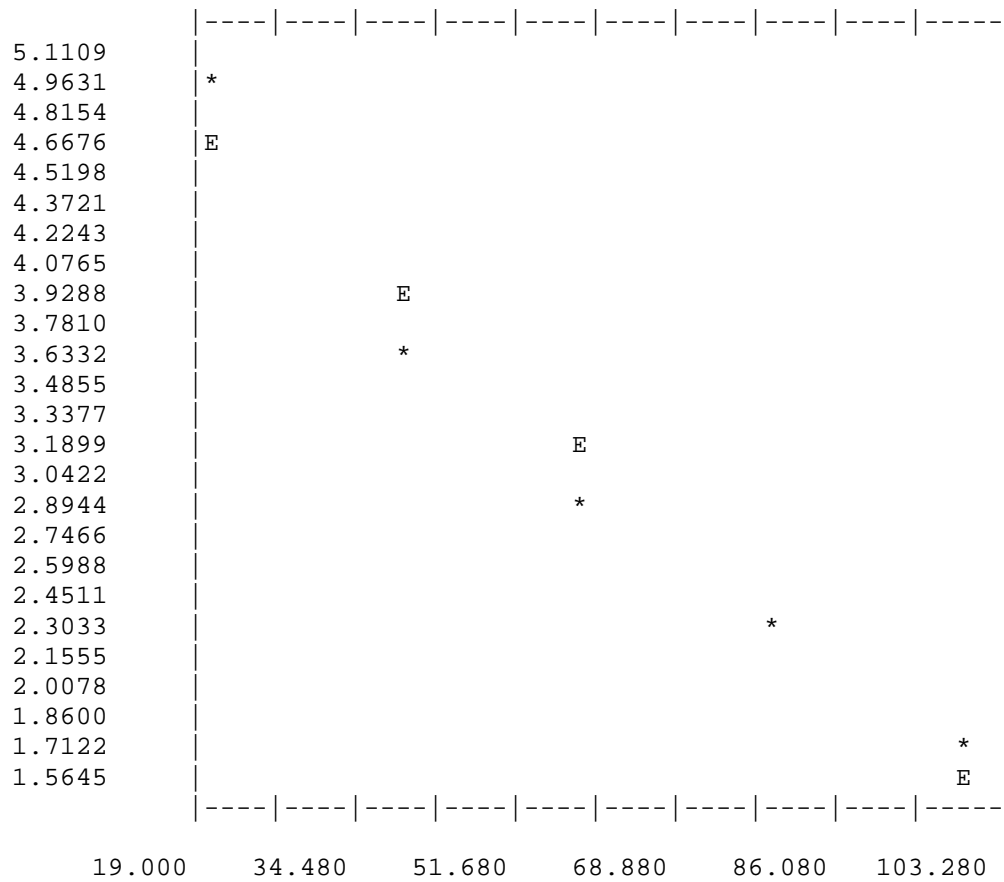
2.51

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.40353	-0.03912	0.98759	0.97533
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	129.	4.86753	4.62107
2	40.	36.	3.61092	3.83862
3	60.	17.	2.89037	3.05617
4	80.	9.	2.30259	2.27372
5	100.	4.	1.60944	1.49126



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.93

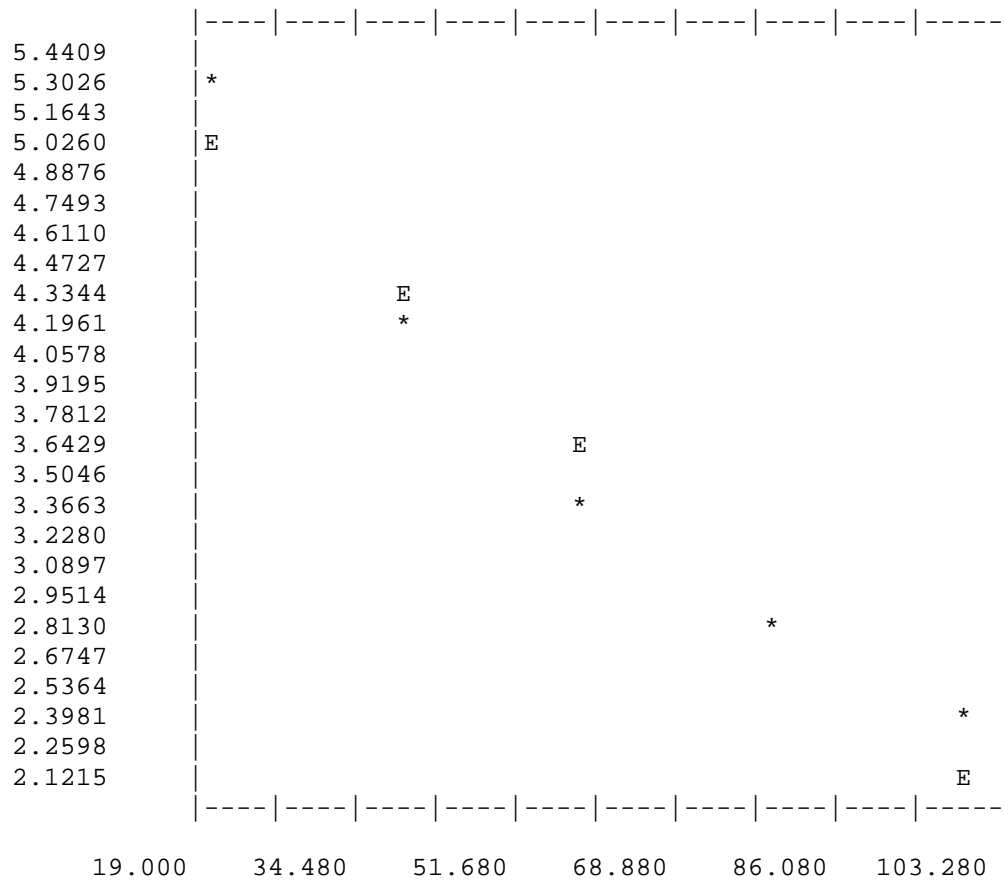
1.57

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.65993	-0.03572	0.98298	0.96625
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	177.	5.18178	4.94546
2	40.	59.	4.09434	4.23099
3	60.	26.	3.29584	3.51652
4	80.	14.	2.70805	2.80205
5	100.	9.	2.30259	2.08758



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.68

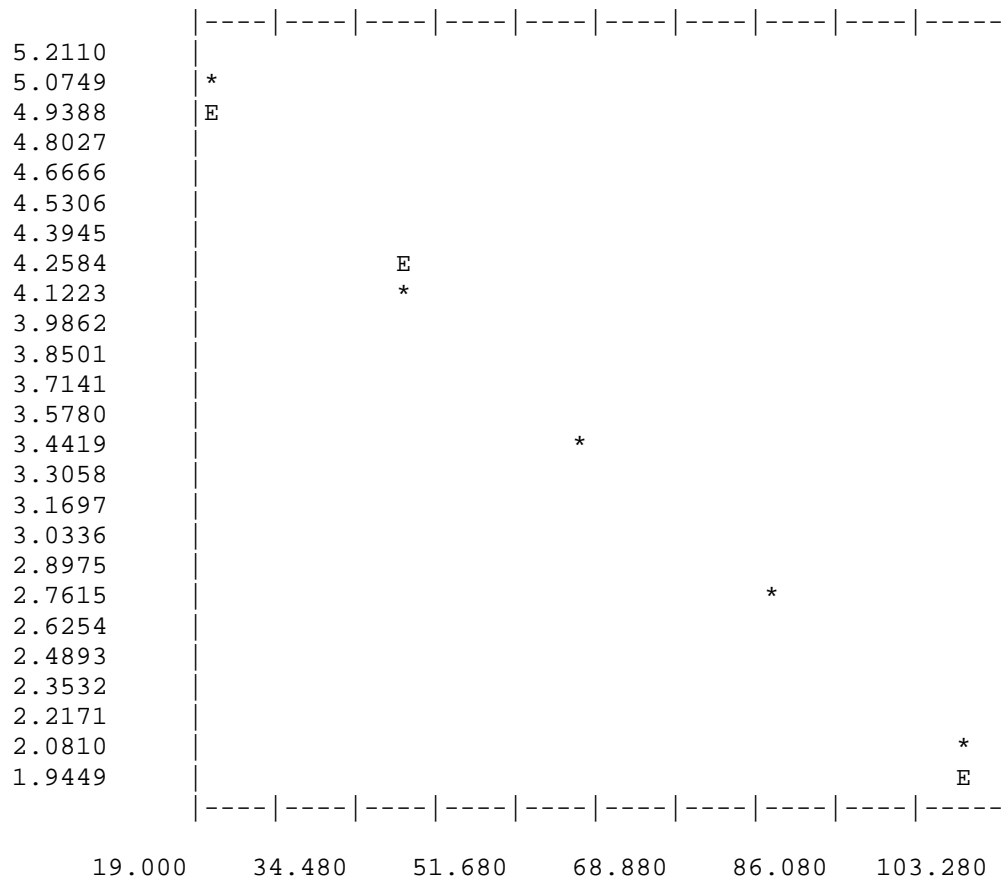
1.72

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.64864	-0.03745	0.99908	0.99817
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	142.	4.96284	4.89972
2	40.	59.	4.09434	4.15081
3	60.	28.	3.36730	3.40189
4	80.	13.	2.63906	2.65297
5	100.	6.	1.94591	1.90406



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.81

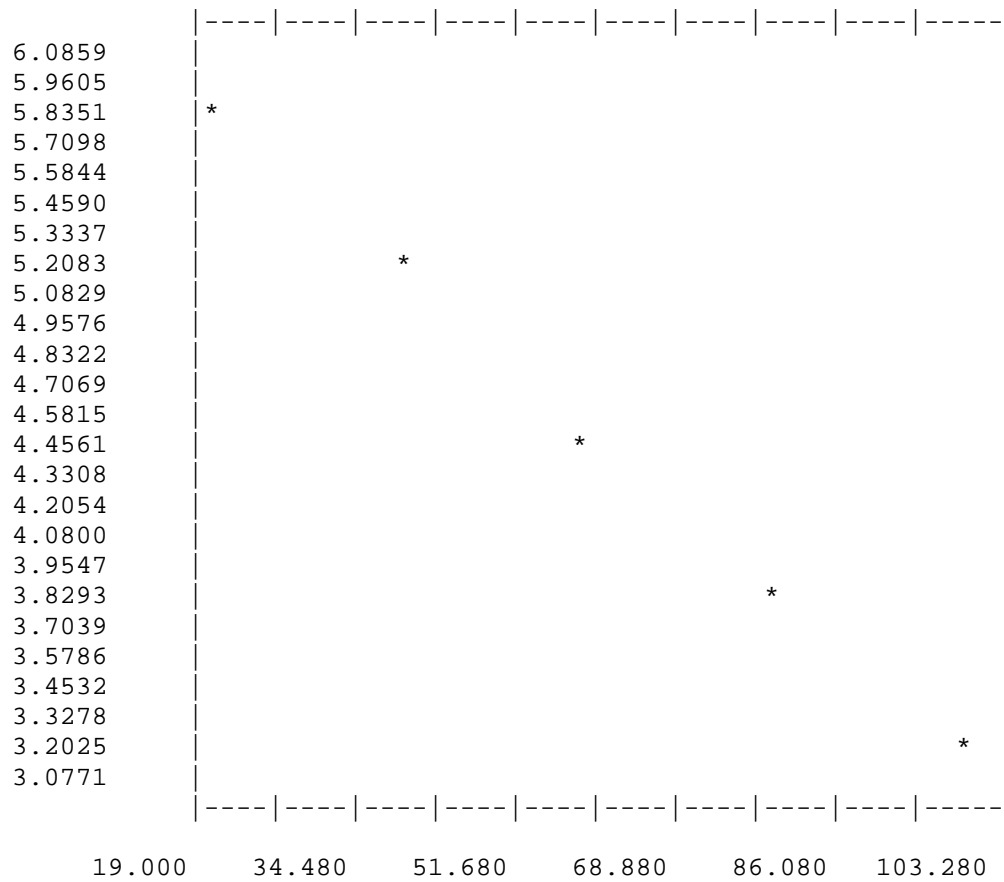
1.64

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.43457	-0.03327	0.99904	0.99808
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	328.	5.79606	5.76907
2	40.	166.	5.11799	5.10358
3	60.	77.	4.35671	4.43809
4	80.	43.	3.78419	3.77260
5	100.	22.	3.13549	3.10710



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.50

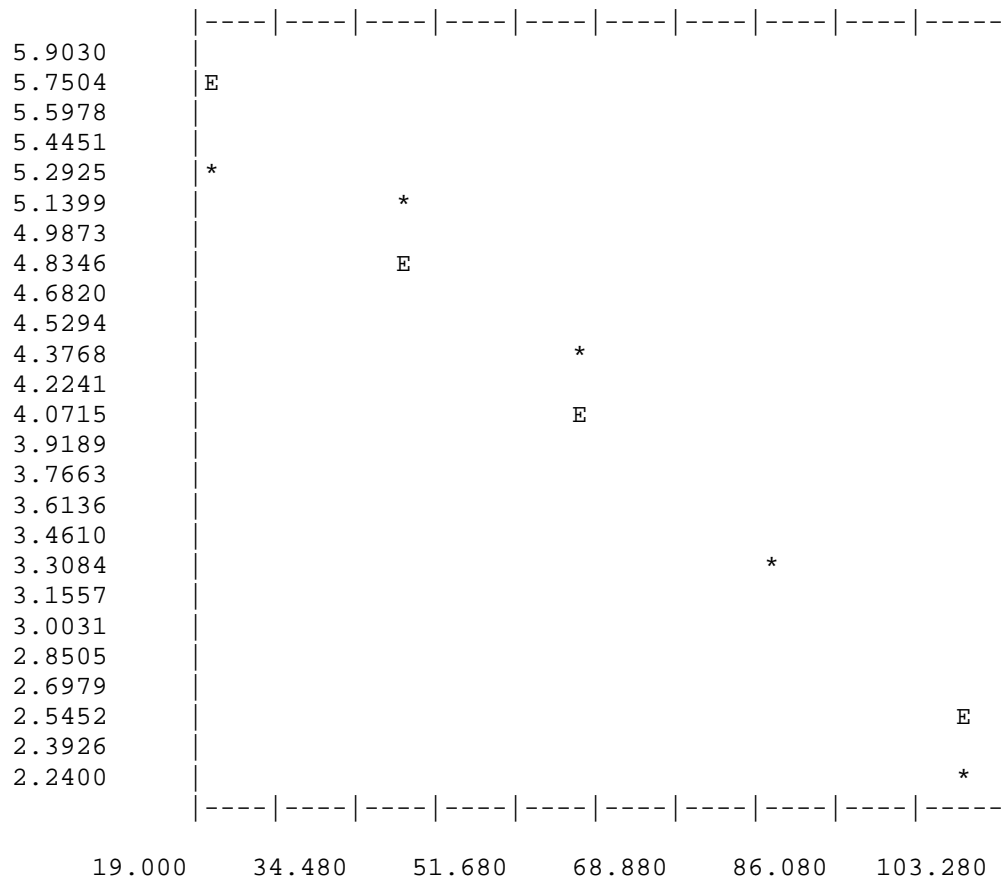
1.85

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.41971	-0.03989	0.97654	0.95363
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	195.	5.27811	5.62192
2	40.	165.	5.11199	4.82413
3	60.	69.	4.24850	4.02633
4	80.	26.	3.29584	3.22854
5	100.	8.	2.19722	2.43075



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.99

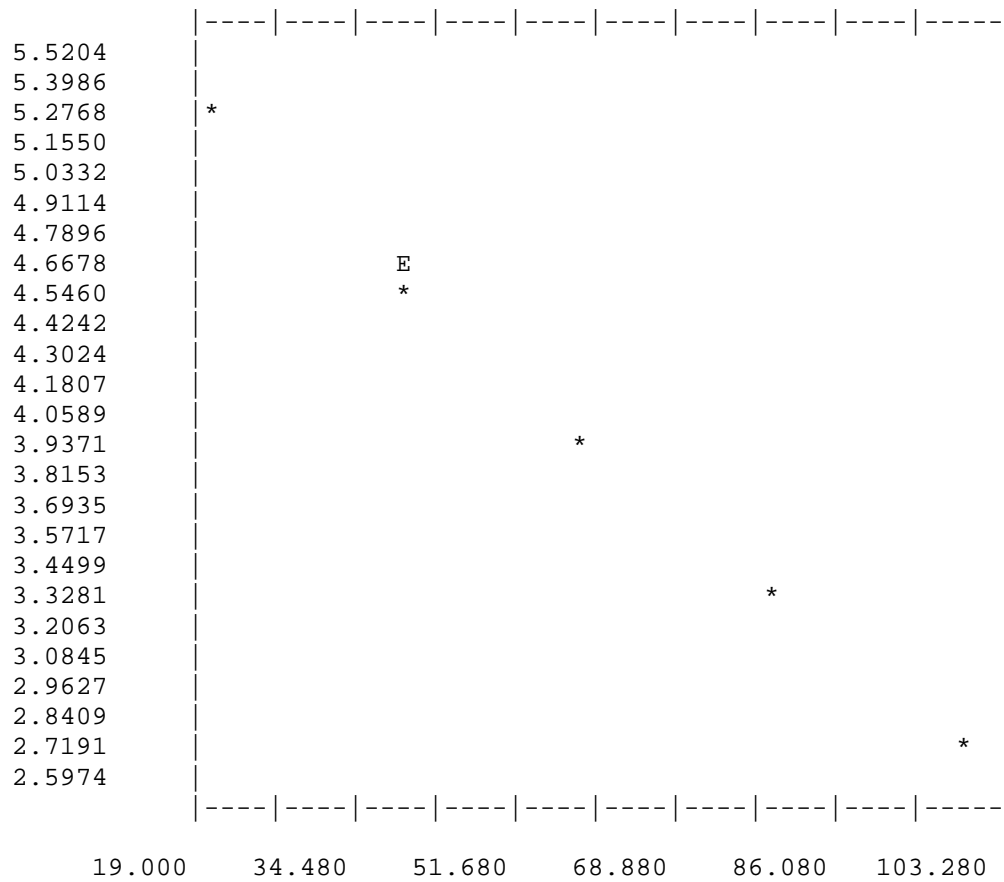
1.54

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.84781	-0.03242	0.99836	0.99672
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	191.	5.25750	5.19941
2	40.	86.	4.46591	4.55102
3	60.	50.	3.93183	3.90263
4	80.	24.	3.21888	3.25424
5	100.	13.	2.63906	2.60585



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.43

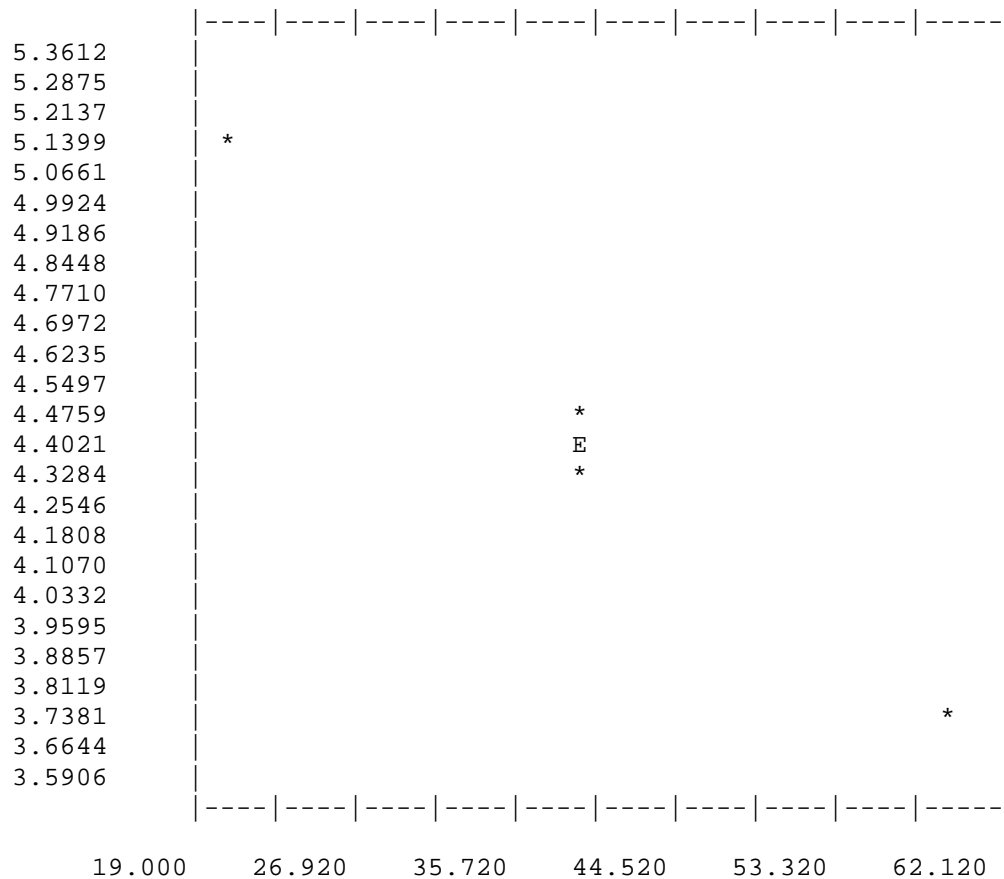
1.89

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.77143	-0.03449	0.99664	0.99329
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	164.	5.10595	5.08159
2	20.	158.	5.06890	5.08159
3	40.	84.	4.44265	4.39174
4	40.	74.	4.31749	4.39174
5	60.	40.	3.71357	3.70190



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.72

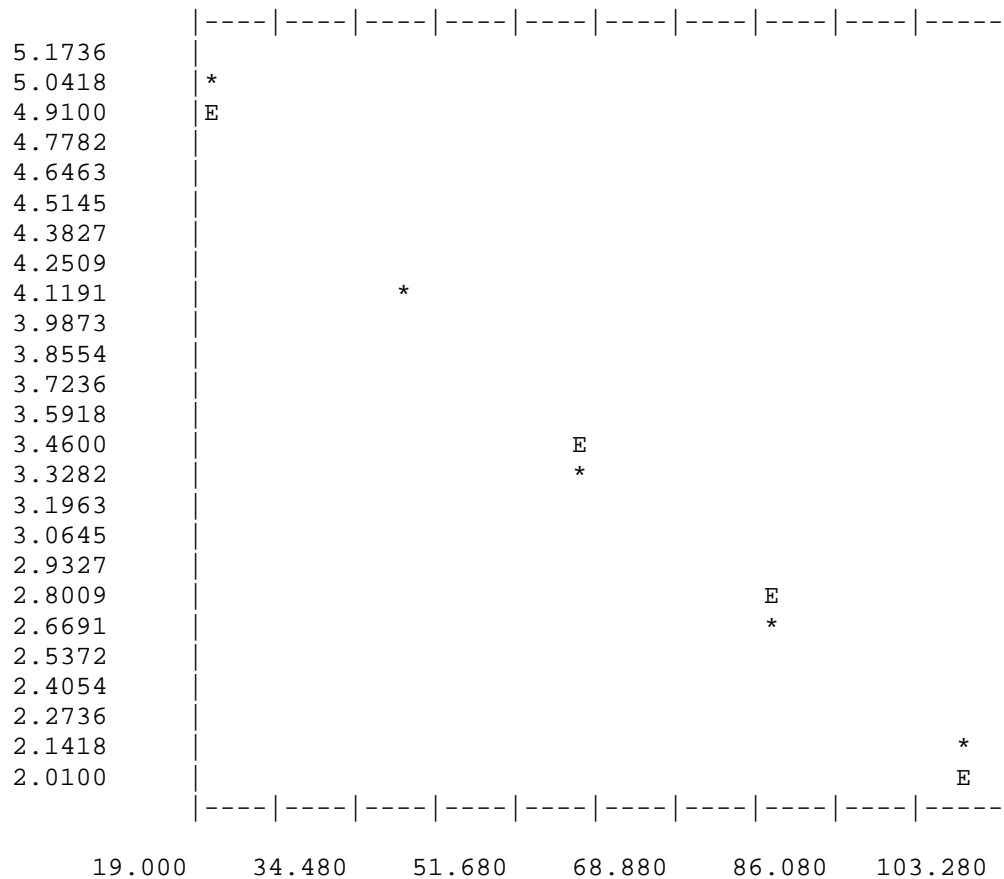
2.67

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.54406	-0.03567	0.99651	0.99303
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	137.	4.92725	4.83065
2	40.	58.	4.07754	4.11724
3	60.	26.	3.29584	3.40383
4	80.	13.	2.63906	2.69041
5	100.	7.	2.07944	1.97700



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.68

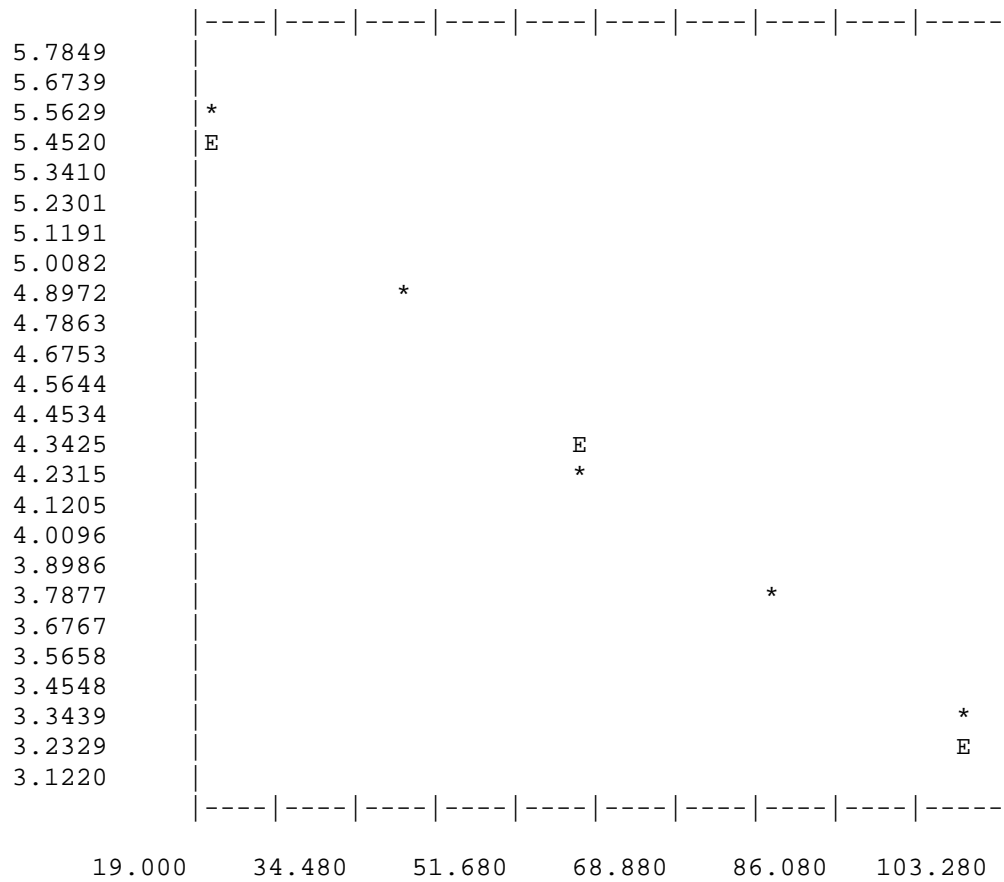
1.72

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.01009	-0.02841	0.99614	0.99230
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	246.	5.50939	5.44197
2	40.	129.	4.86753	4.87384
3	60.	66.	4.20469	4.30572
4	80.	39.	3.68888	3.73759
5	100.	25.	3.25810	3.16947



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.13

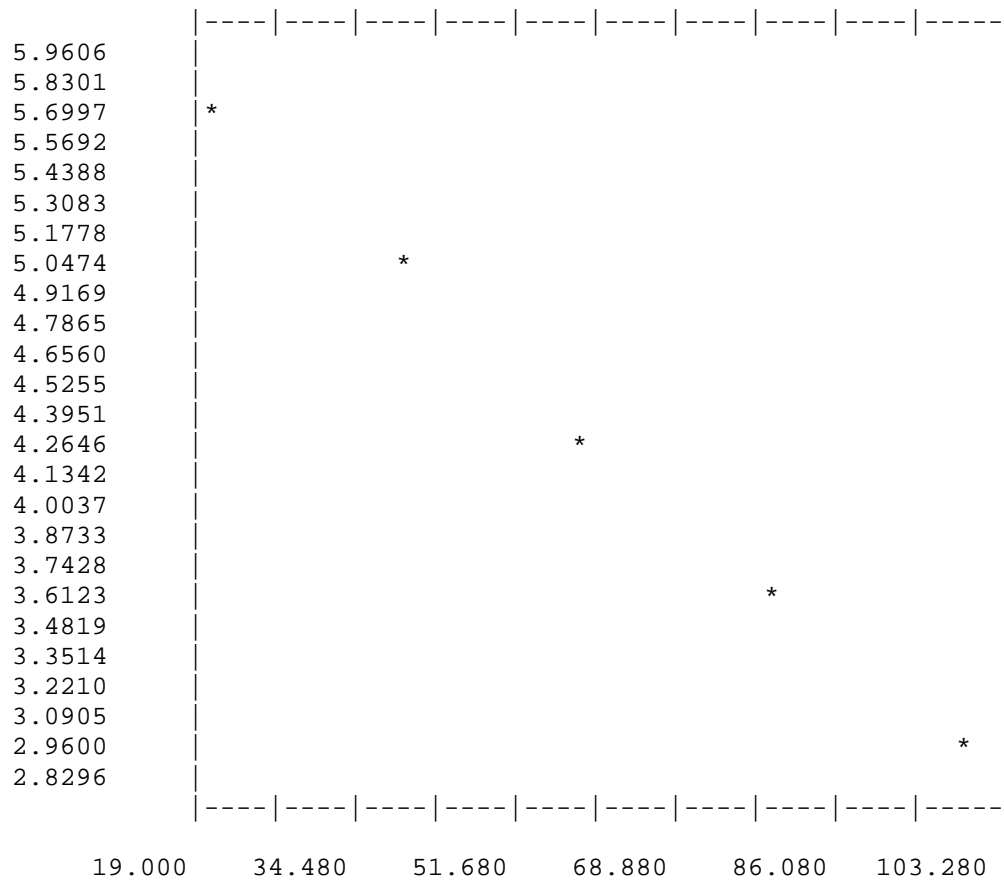
2.16

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.33877	-0.03498	0.99890	0.99781
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	291.	5.67675	5.63926
2	40.	140.	4.94876	4.93974
3	60.	63.	4.15888	4.24023
4	80.	33.	3.52636	3.54071
5	100.	17.	2.89037	2.84119



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.62

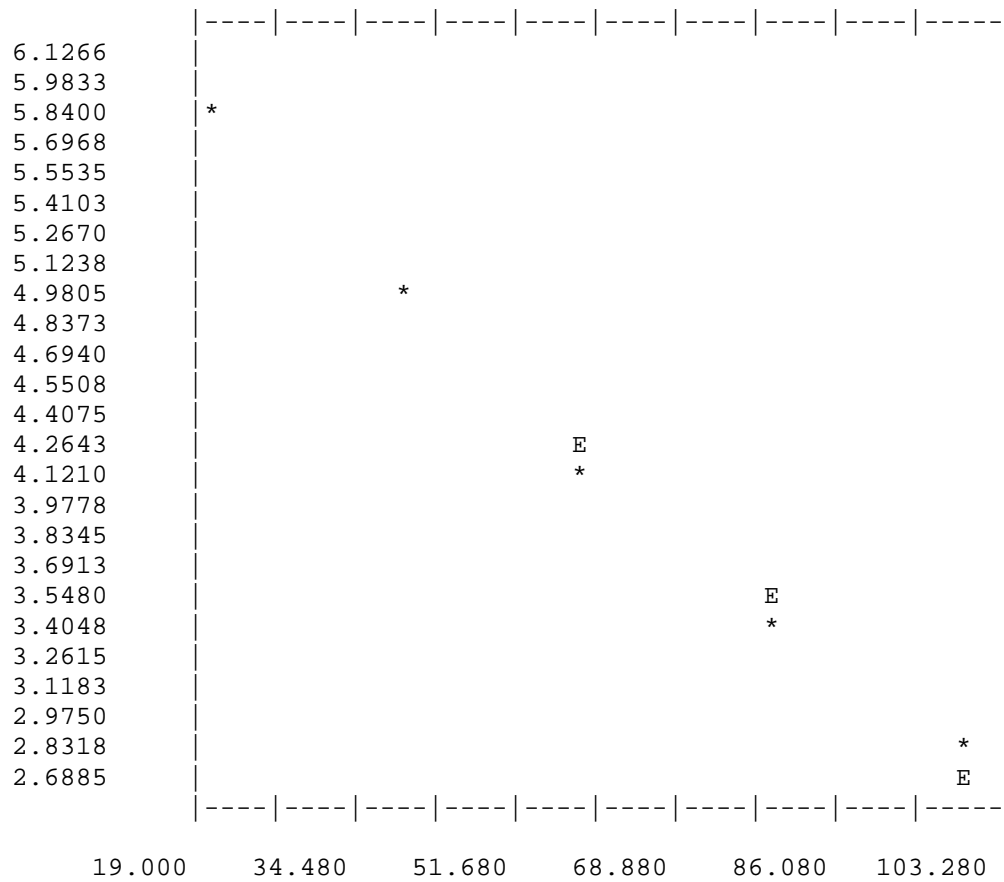
1.76

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.48604	-0.03807	0.99691	0.99382
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	341.	5.83481	5.72468
2	40.	132.	4.89035	4.96332
3	60.	60.	4.11087	4.20196
4	80.	29.	3.40120	3.44060
5	100.	15.	2.77259	2.67924



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.86

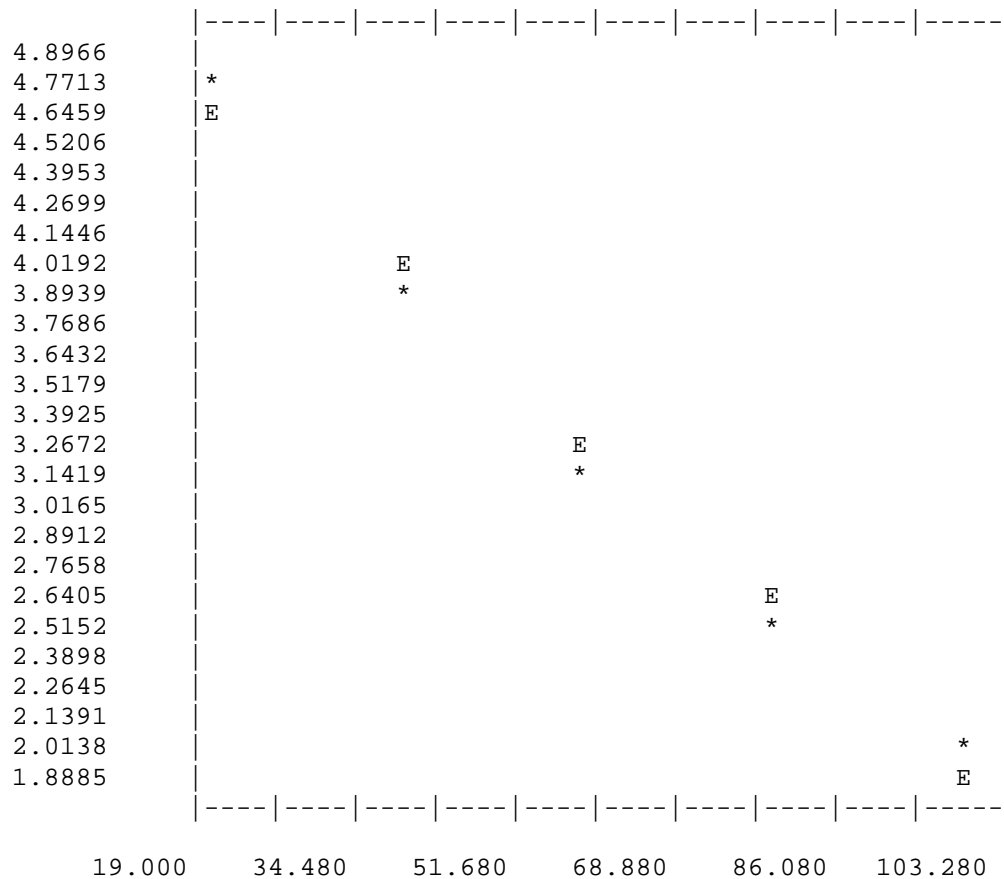
1.61

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.25607	-0.03400	0.99710	0.99421
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	105.	4.66344	4.57604
2	40.	46.	3.85015	3.89601
3	60.	22.	3.13549	3.21598
4	80.	11.	2.48491	2.53595
5	100.	6.	1.94591	1.85592



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.55

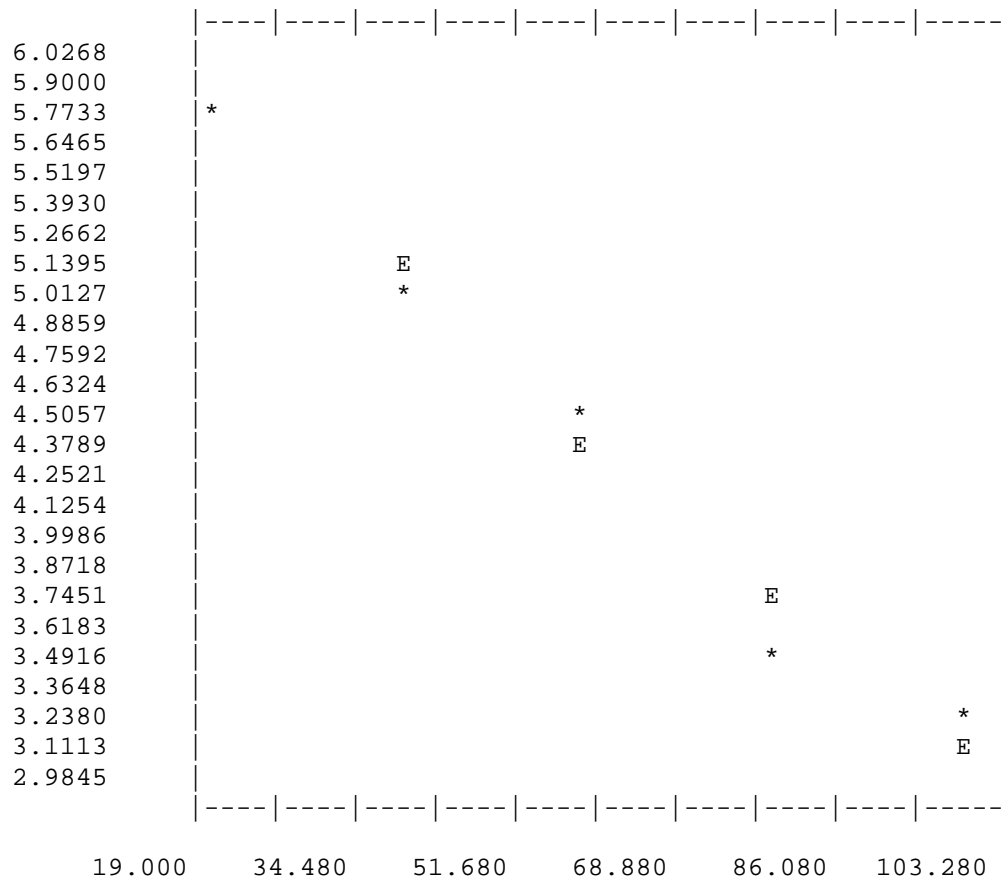
1.81

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.36796	-0.03360	0.99185	0.98376
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	310.	5.73979	5.69600
2	40.	144.	4.97673	5.02404
3	60.	84.	4.44265	4.35208
4	80.	31.	3.46574	3.68012
5	100.	22.	3.13549	3.00816



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.52

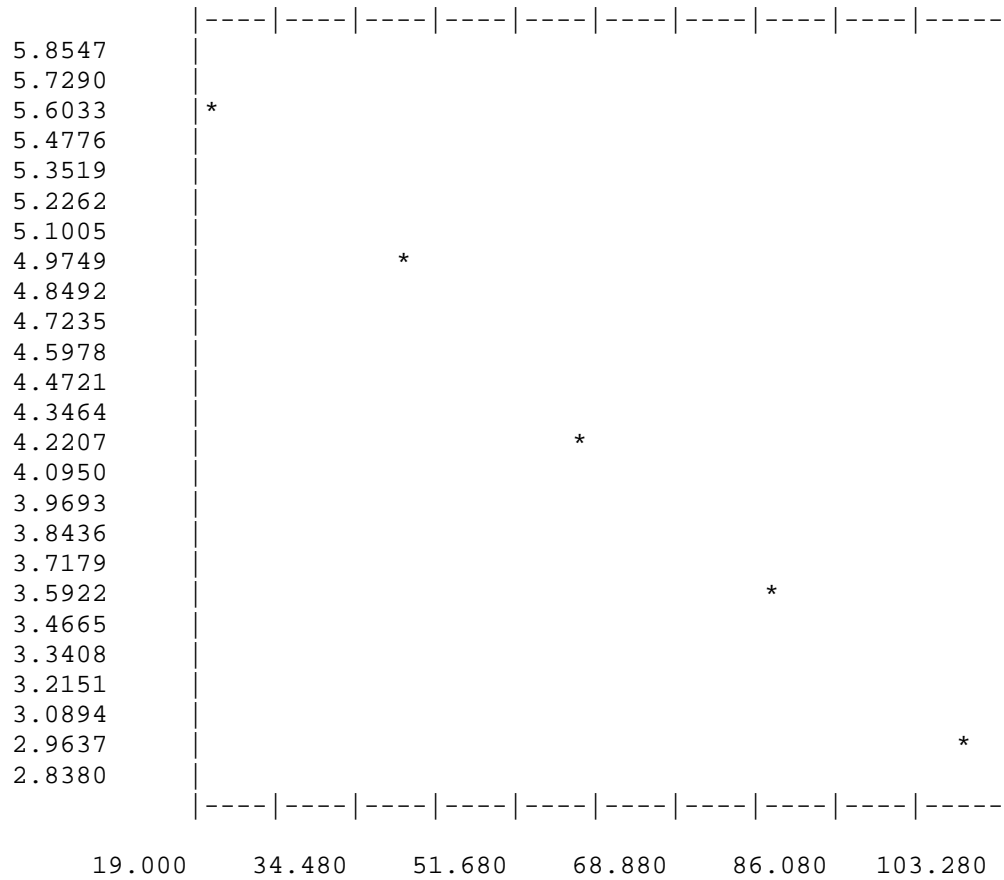
1.83

LIGHT PROFILE ANALYSES - FOR 10/25/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.23004	-0.03375	0.99908	0.99816
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	263.	5.57595	5.55503
2	40.	134.	4.90527	4.88003
3	60.	61.	4.12713	4.20502
4	80.	33.	3.52636	3.53001
5	100.	17.	2.89037	2.85500



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.53

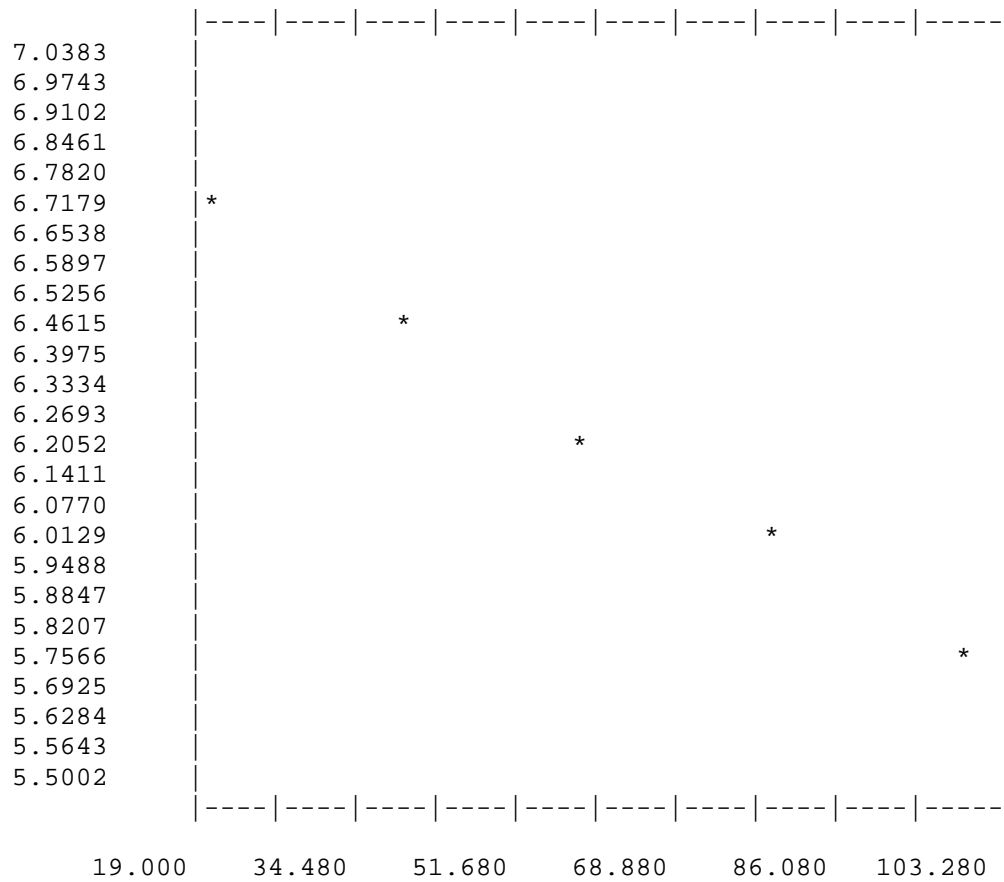
1.82

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.89483	-0.01173	0.99501	0.99004
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	814.	6.70319	6.66031
2	40.	600.	6.39859	6.42579
3	60.	465.	6.14419	6.19127
4	80.	387.	5.96101	5.95676
5	100.	313.	5.74939	5.72224



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.88

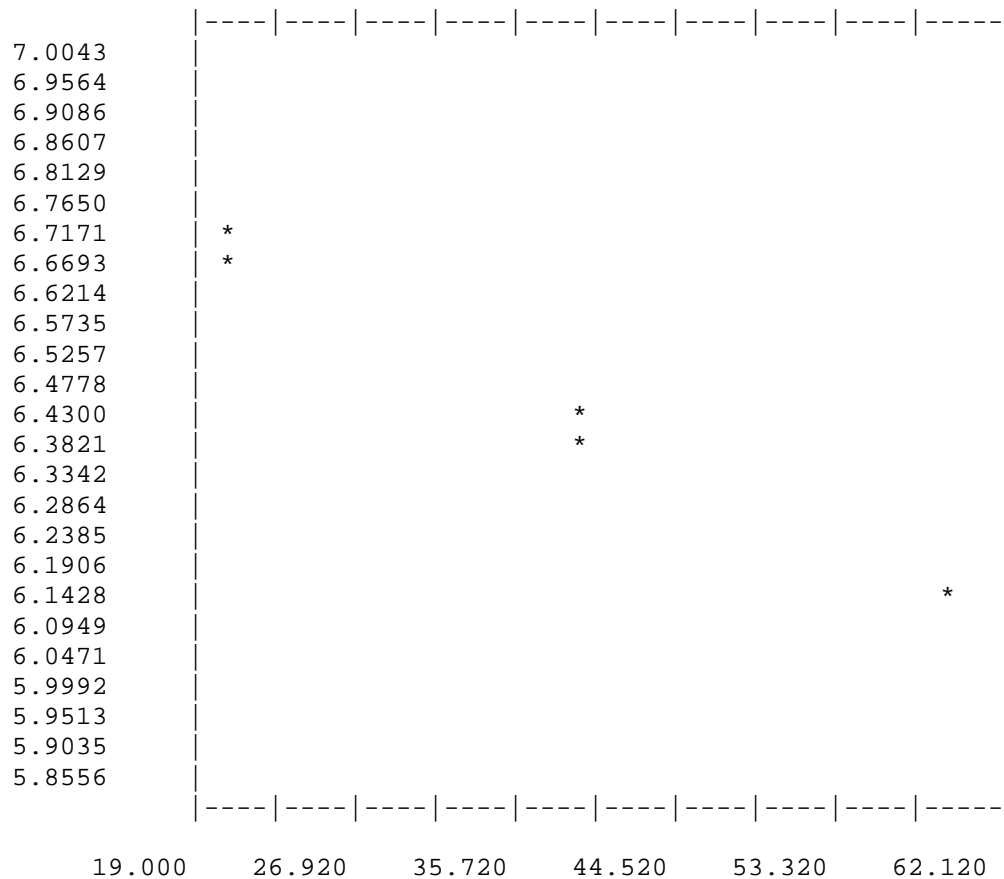
5.24

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.91190	-0.01331	0.99599	0.99199
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	788.	6.67077	6.64574
2	20.	753.	6.62539	6.64574
3	40.	595.	6.39024	6.37958
4	40.	577.	6.35957	6.37958
5	60.	453.	6.11810	6.11342



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.67

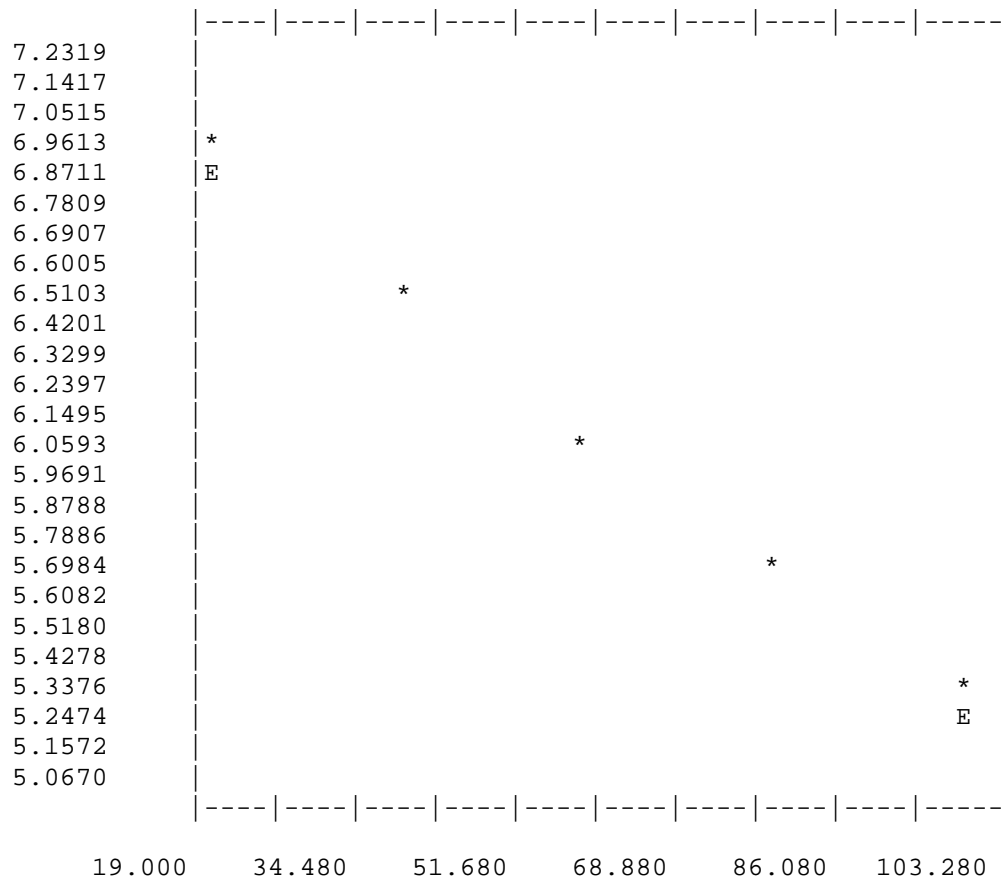
6.92

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.27480	-0.02036	0.99948	0.99896
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	979.	6.88755	6.86758
2	40.	634.	6.45363	6.46037
3	60.	415.	6.03069	6.05315
4	80.	278.	5.63121	5.64594
5	100.	192.	5.26269	5.23873



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.53

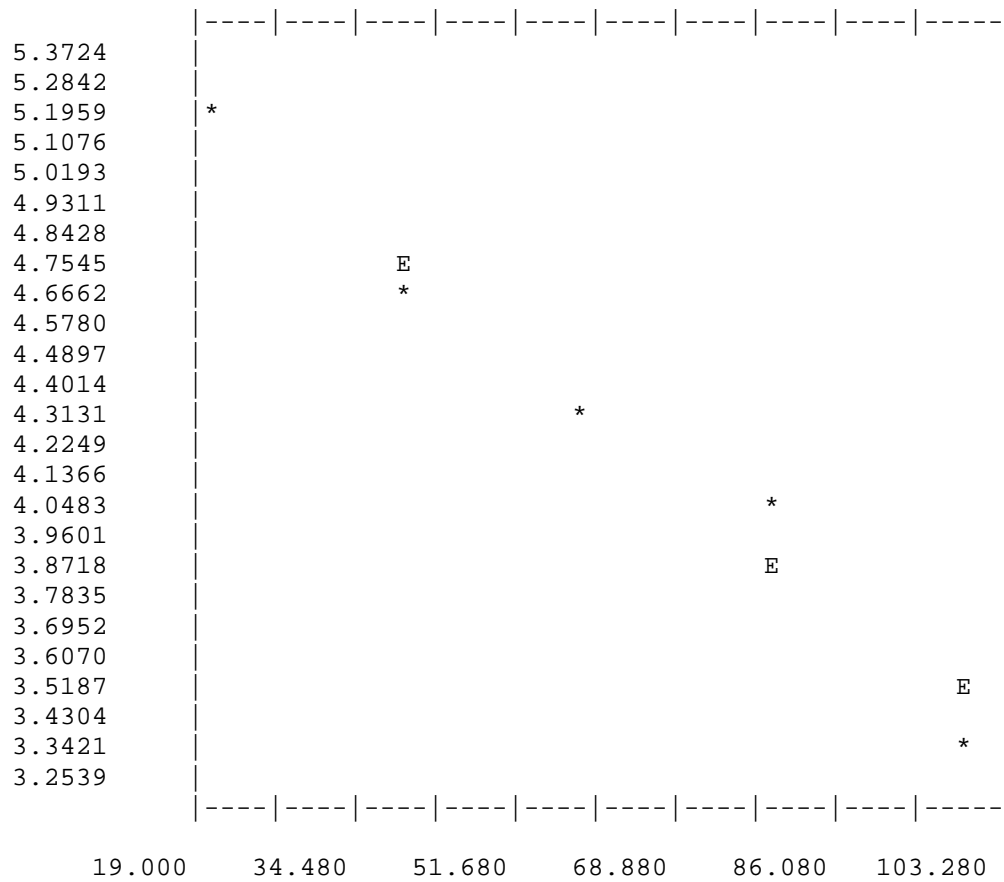
3.02

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.53269	-0.02080	0.98638	0.97295
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	165.	5.11199	5.11660
2	40.	103.	4.64439	4.70051
3	60.	72.	4.29046	4.28442
4	80.	56.	4.04305	3.86833
5	100.	27.	3.33220	3.45224



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.56

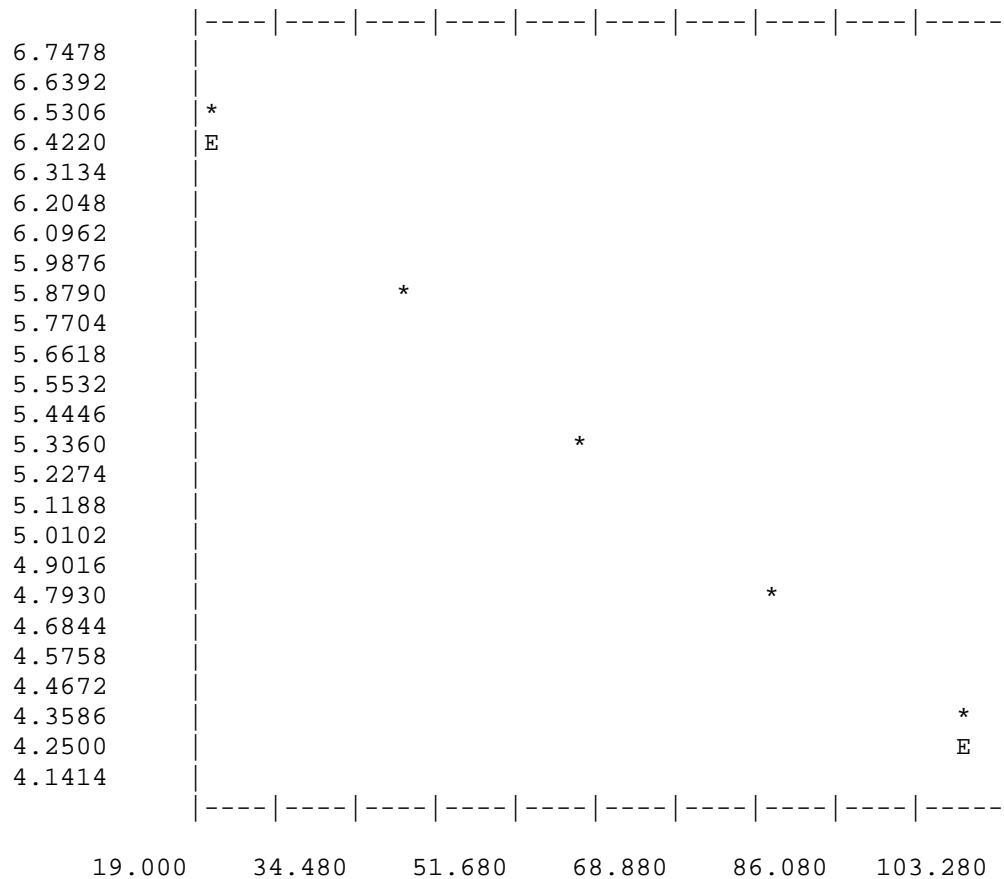
2.95

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.90379	-0.02659	0.99849	0.99699
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	617.	6.42649	6.37204
2	40.	329.	5.79909	5.84028
3	60.	194.	5.27300	5.30853
4	80.	115.	4.75359	4.77677
5	100.	72.	4.29046	4.24502



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.99

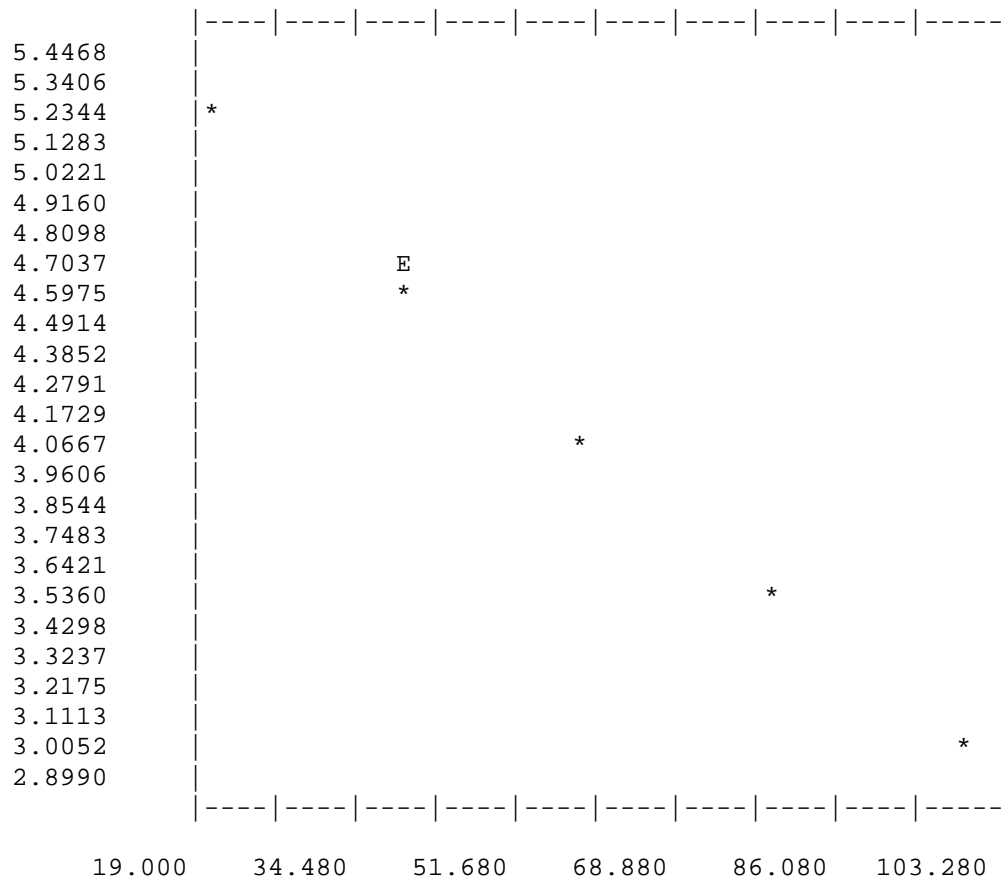
2.31

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.71151	-0.02772	0.99944	0.99887
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	178.	5.18739	5.15718
2	40.	94.	4.55388	4.60286
3	60.	57.	4.06044	4.04853
4	80.	32.	3.49651	3.49420
5	100.	18.	2.94444	2.93988



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.08

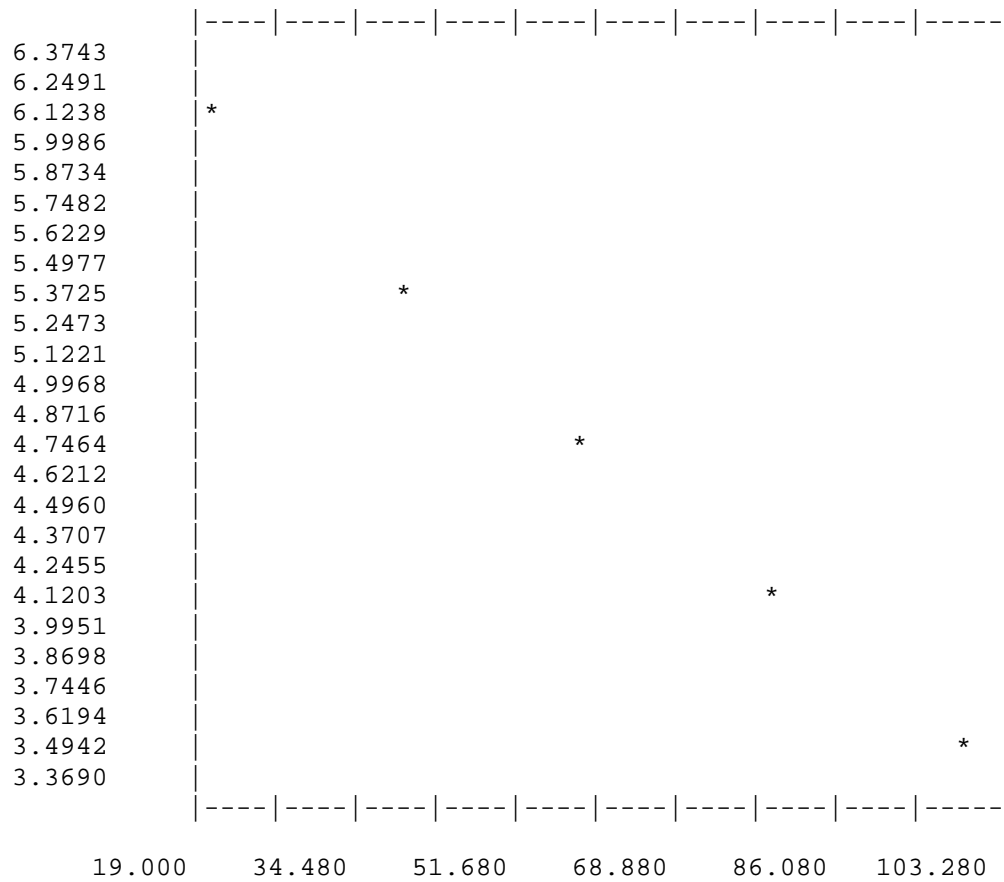
2.22

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.66041	-0.03246	0.99831	0.99662
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	432.	6.07074	6.01122
2	40.	208.	5.34233	5.36203
3	60.	101.	4.62497	4.71284
4	80.	57.	4.06044	4.06366
5	100.	31.	3.46574	3.41447



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.43

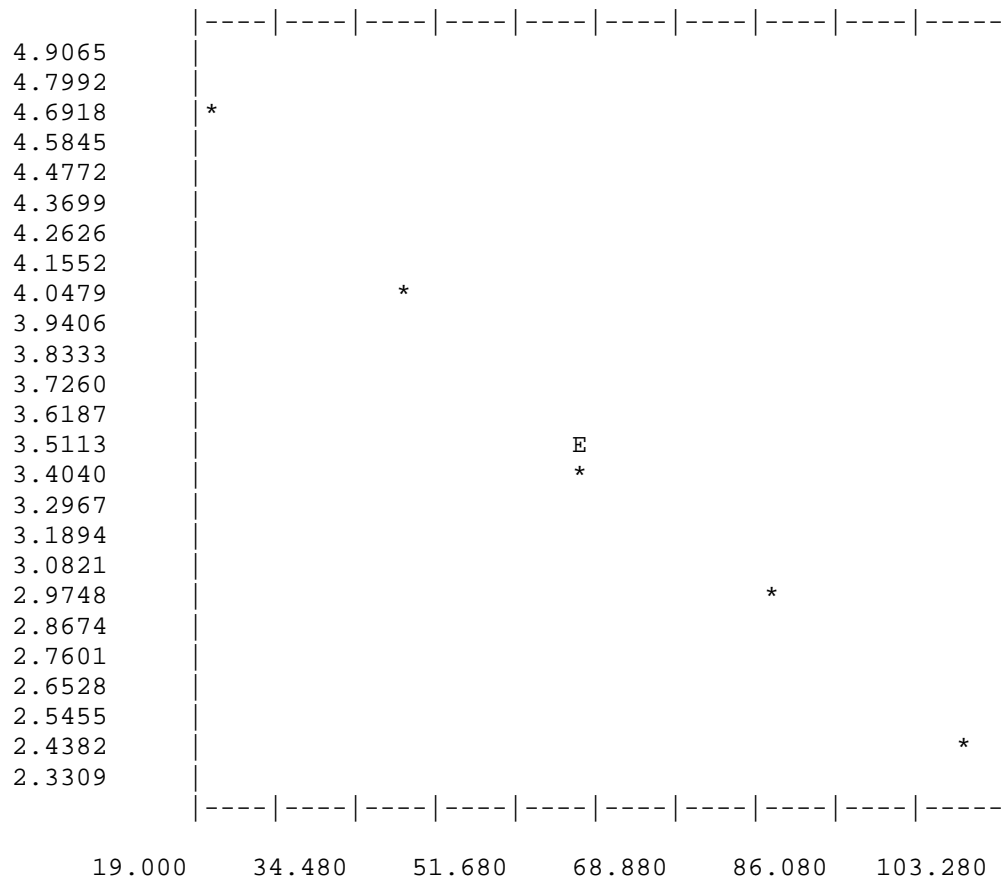
1.89

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.15545	-0.02815	0.99722	0.99445
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	106.	4.67283	4.59247
2	40.	52.	3.97029	4.02950
3	60.	29.	3.40120	3.46652
4	80.	17.	2.89037	2.90354
5	100.	10.	2.39790	2.34056



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.11

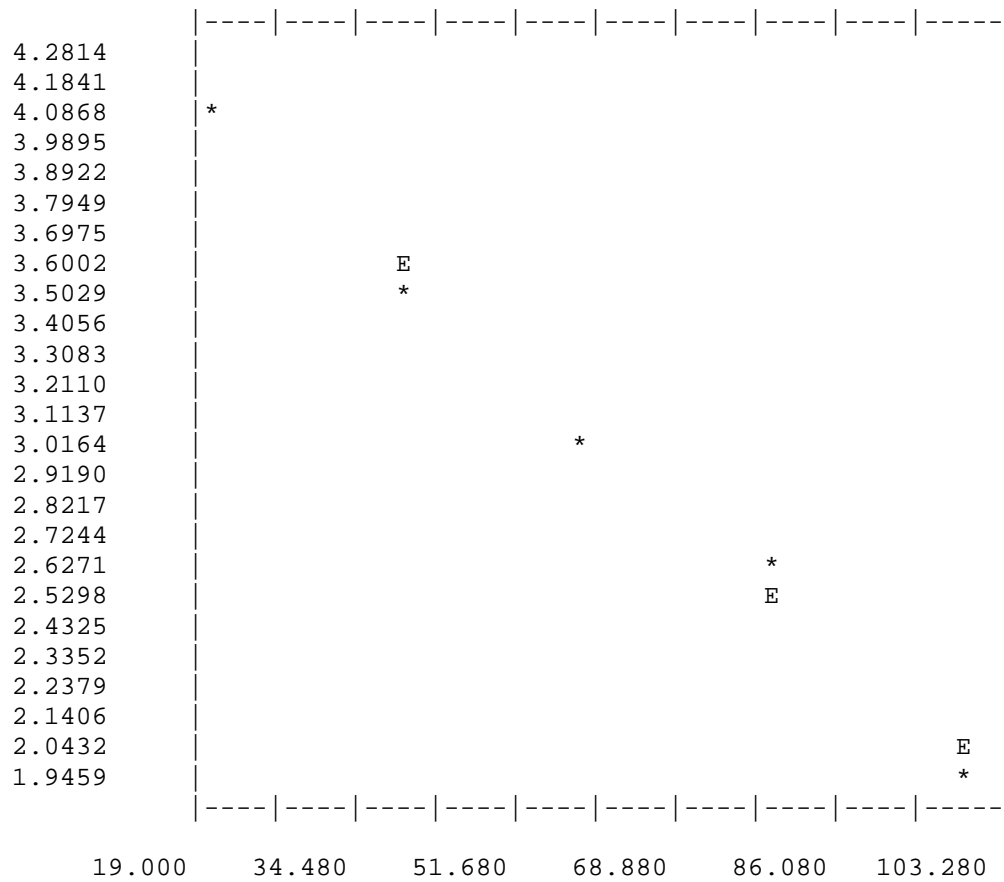
2.18

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	4.53305	-0.02566	0.99648	0.99298
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	58.	4.07754	4.01982
2	40.	30.	3.43399	3.50659
3	60.	18.	2.94444	2.99336
4	80.	12.	2.56495	2.48014
5	100.	6.	1.94591	1.96691



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.92

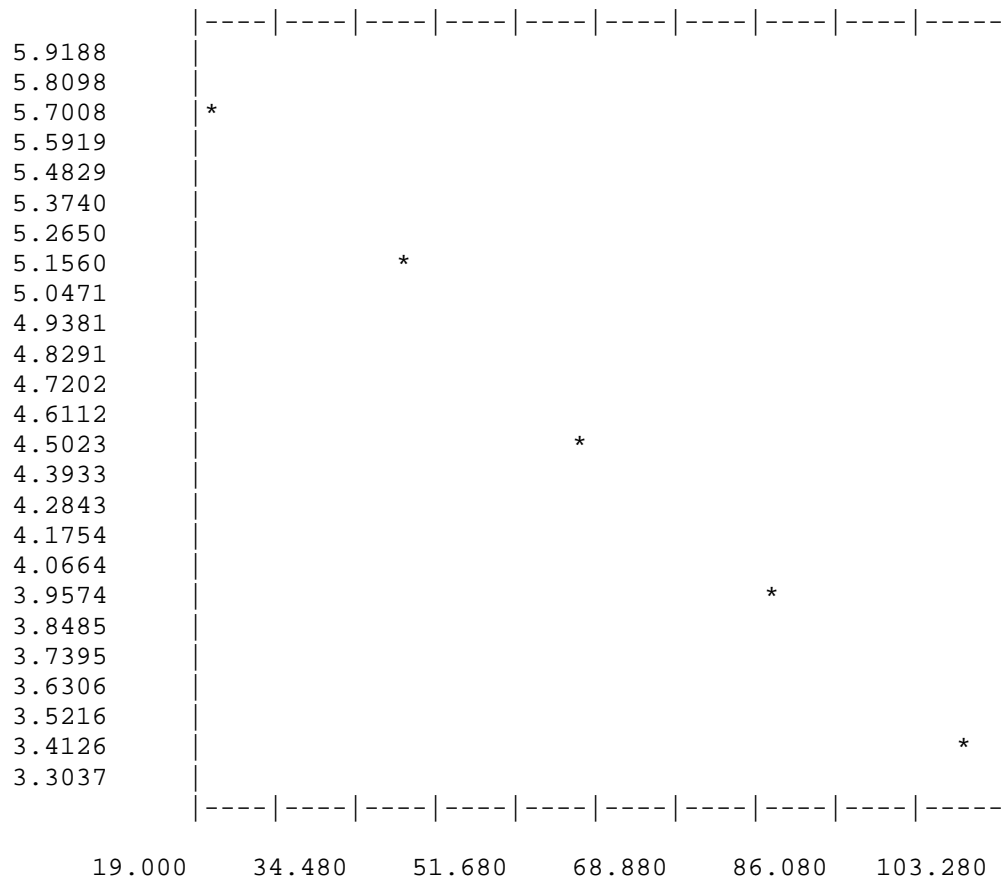
2.39

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.20545	-0.02843	0.99877	0.99755
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	275.	5.62040	5.63693
2	40.	166.	5.11799	5.06841
3	60.	88.	4.48864	4.49989
4	80.	47.	3.87120	3.93137
5	100.	29.	3.40120	3.36285



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.13

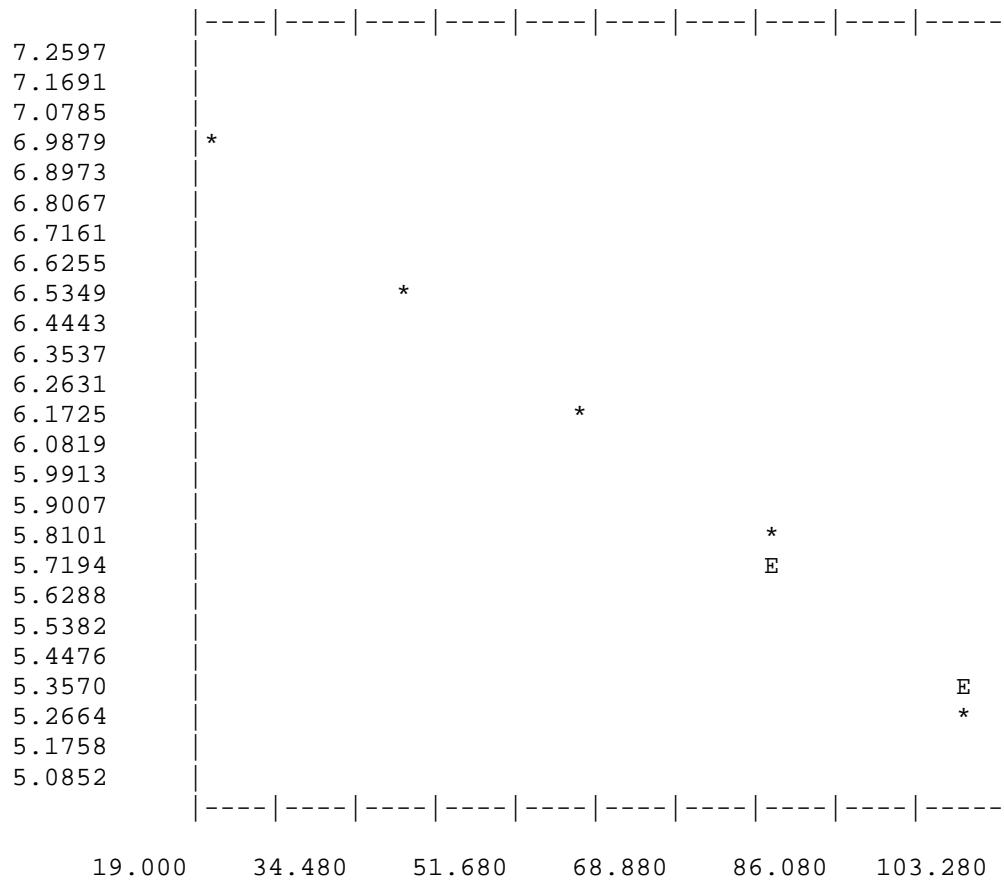
2.16

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.31393	-0.02000	0.99606	0.99213
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	1004.	6.91274	6.91402
2	40.	662.	6.49678	6.51411
3	60.	443.	6.09582	6.11420
4	80.	332.	5.80814	5.71428
5	100.	191.	5.25750	5.31437



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.50

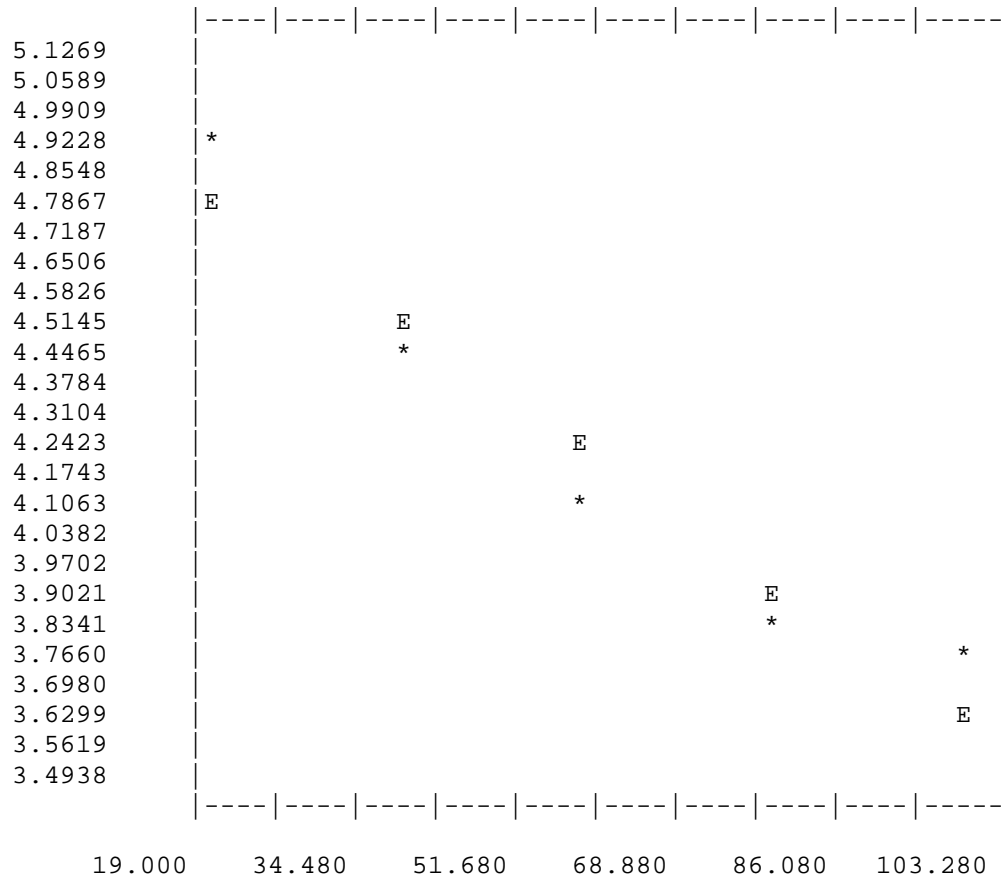
3.07

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.05824	-0.01452	0.96779	0.93662
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	131.	4.88280	4.76782
2	40.	84.	4.44265	4.47739
3	60.	56.	4.04305	4.18696
4	80.	45.	3.82864	3.89654
5	100.	41.	3.73767	3.60611



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.09

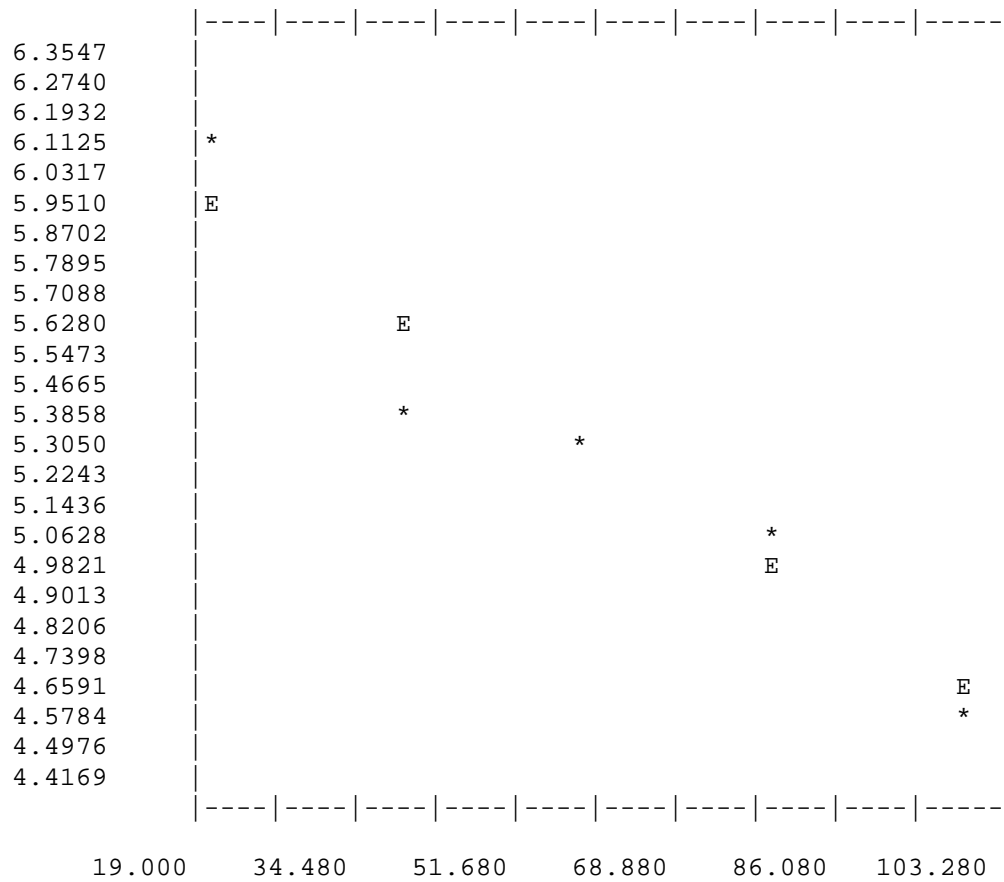
4.23

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.25757	-0.01675	0.97141	0.94363
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	424.	6.05209	5.92264
2	40.	217.	5.38450	5.58770
3	60.	190.	5.25227	5.25277
4	80.	149.	5.01064	4.91783
5	100.	95.	4.56435	4.58290



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.26

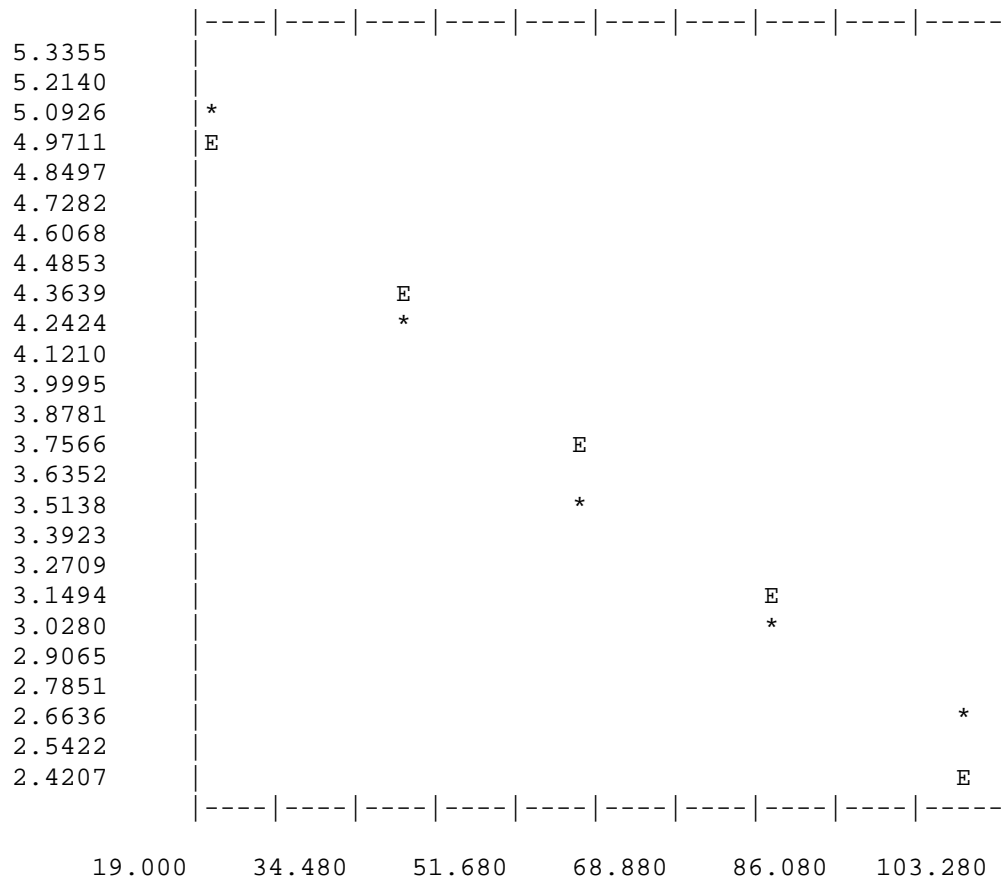
3.67

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	5.50244	-0.03082	0.98639	0.97296
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	160.	5.08140	4.88601
2	40.	61.	4.12713	4.26958
3	60.	32.	3.49651	3.65315
4	80.	19.	2.99573	3.03671
5	100.	12.	2.56495	2.42028



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.31

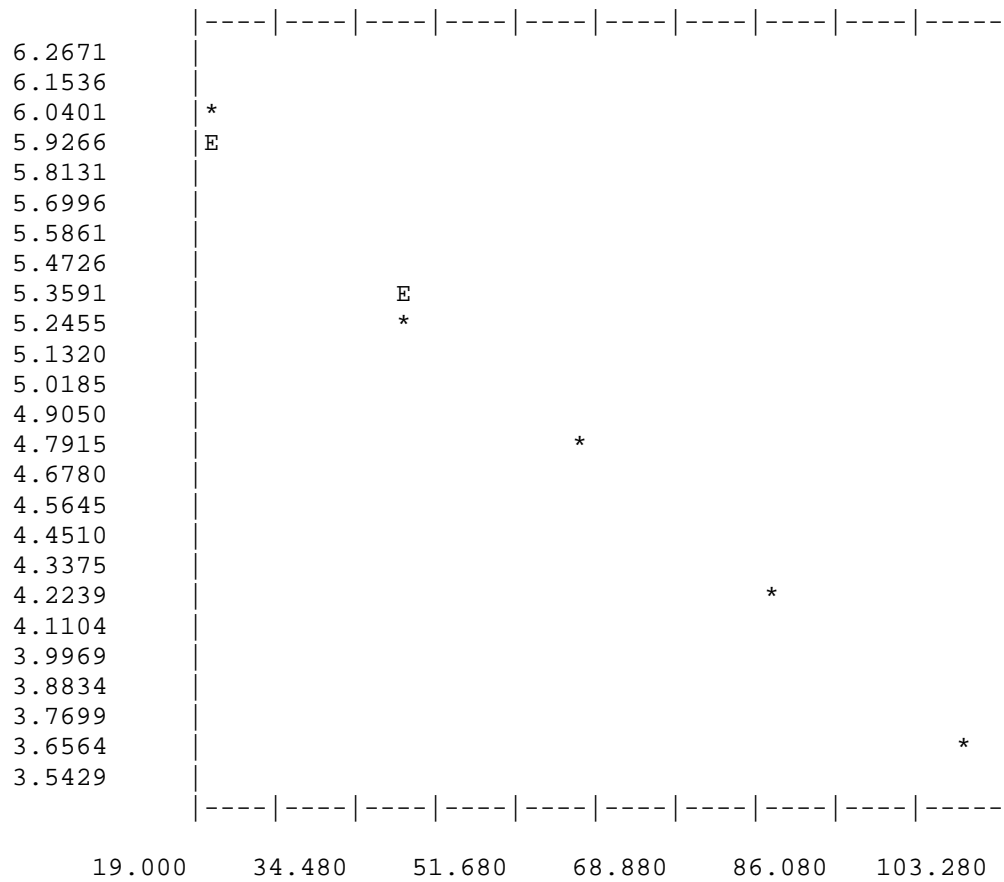
1.99

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.47442	-0.02865	0.99735	0.99472
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	390.	5.96871	5.90150
2	40.	185.	5.22575	5.32859
3	60.	119.	4.78749	4.75568
4	80.	63.	4.15888	4.18277
5	100.	37.	3.63759	3.60986



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.15

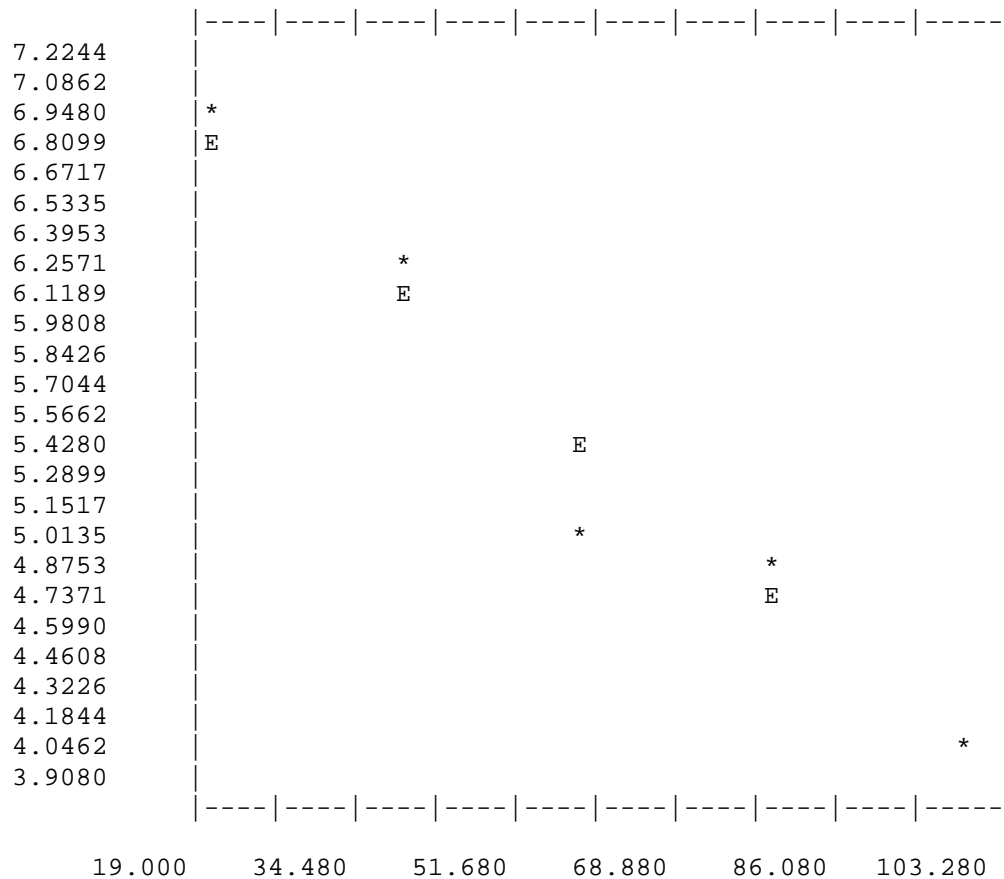
2.14

LIGHT PROFILE ANALYSES - FOR 11/26/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	7.45854	-0.03490	0.97678	0.95409
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	972.	6.88038	6.76048
2	40.	455.	6.12249	6.06243
3	60.	139.	4.94164	5.36438
4	80.	127.	4.85203	4.66633
5	100.	55.	4.02535	3.96828



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

2.62

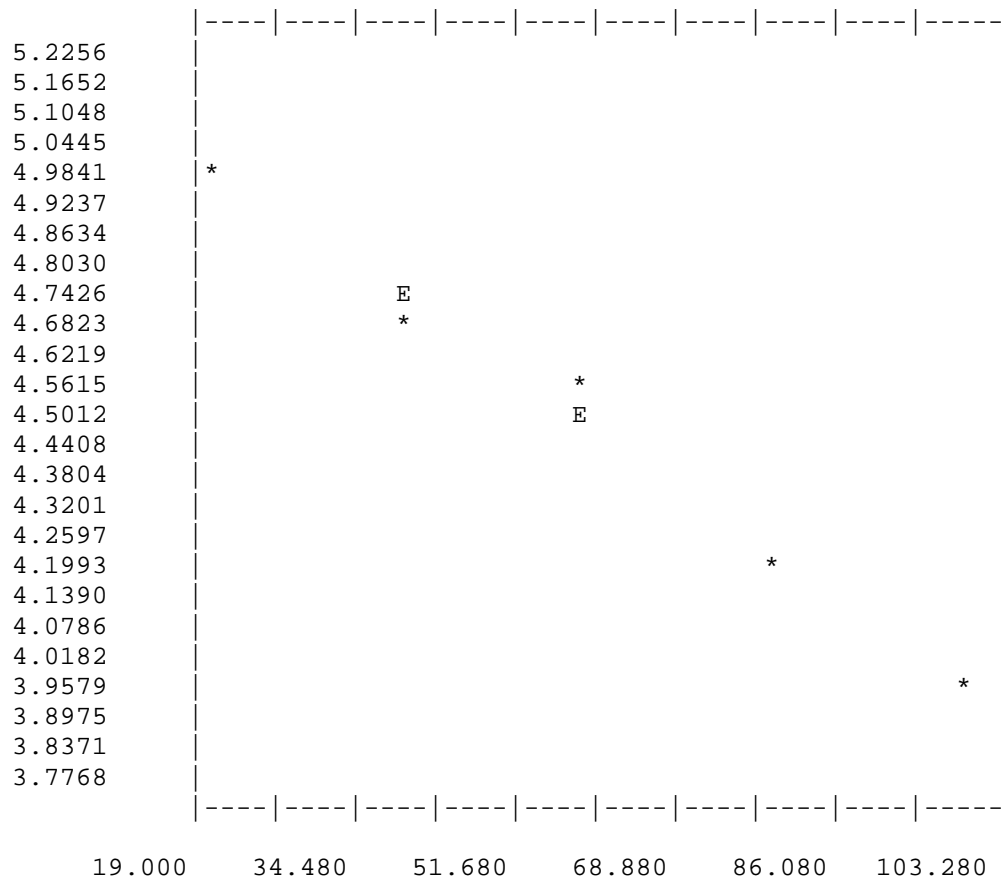
1.76

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 9

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.21815	-0.01290	0.98931	0.97874
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	144.	4.97673	4.96014
2	40.	101.	4.62497	4.70214
3	60.	92.	4.53260	4.44414
4	80.	64.	4.17439	4.18614
5	100.	49.	3.91202	3.92814



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.97

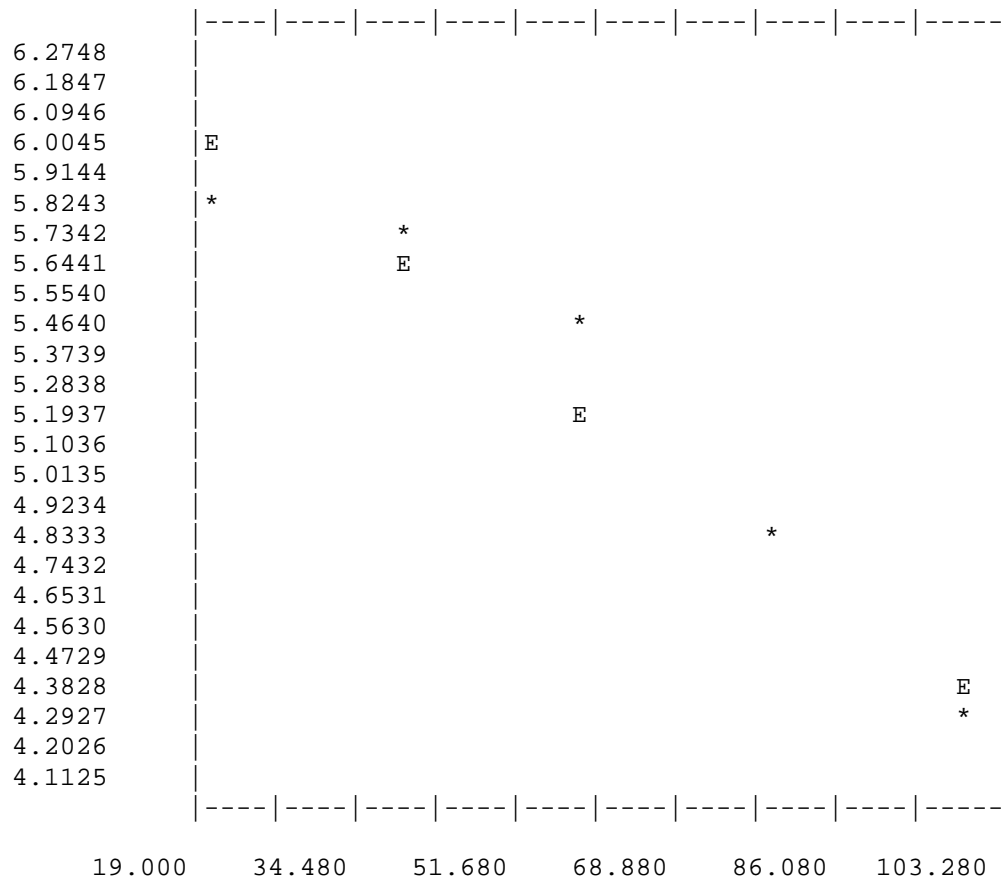
4.76

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 10

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.37881	-0.02014	0.96359	0.92850
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	324.	5.78383	5.97602
2	40.	290.	5.67332	5.57324
3	60.	224.	5.41610	5.17046
4	80.	114.	4.74493	4.76767
5	100.	68.	4.23411	4.36489



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.51

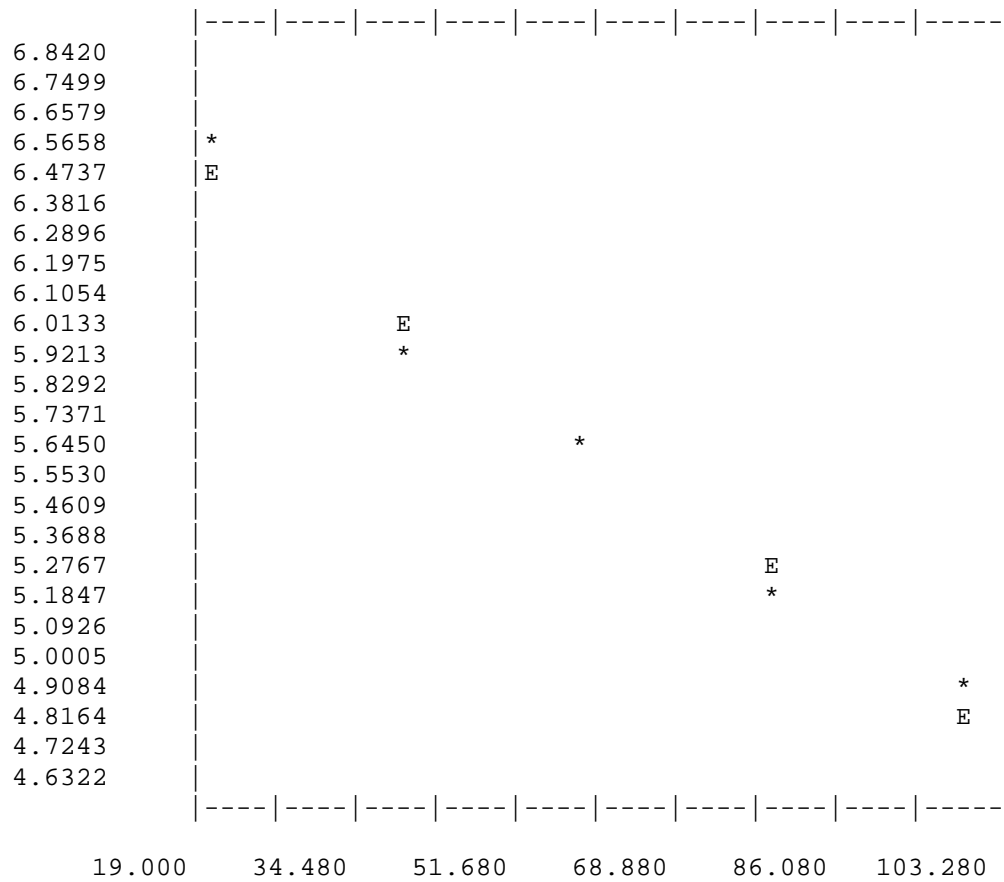
3.05

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 11

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.80878	-0.02030	0.98915	0.97843
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	675.	6.51619	6.40284
2	40.	346.	5.84932	5.99690
3	60.	266.	5.58725	5.59097
4	80.	177.	5.18178	5.18503
5	100.	123.	4.82028	4.77909



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.52

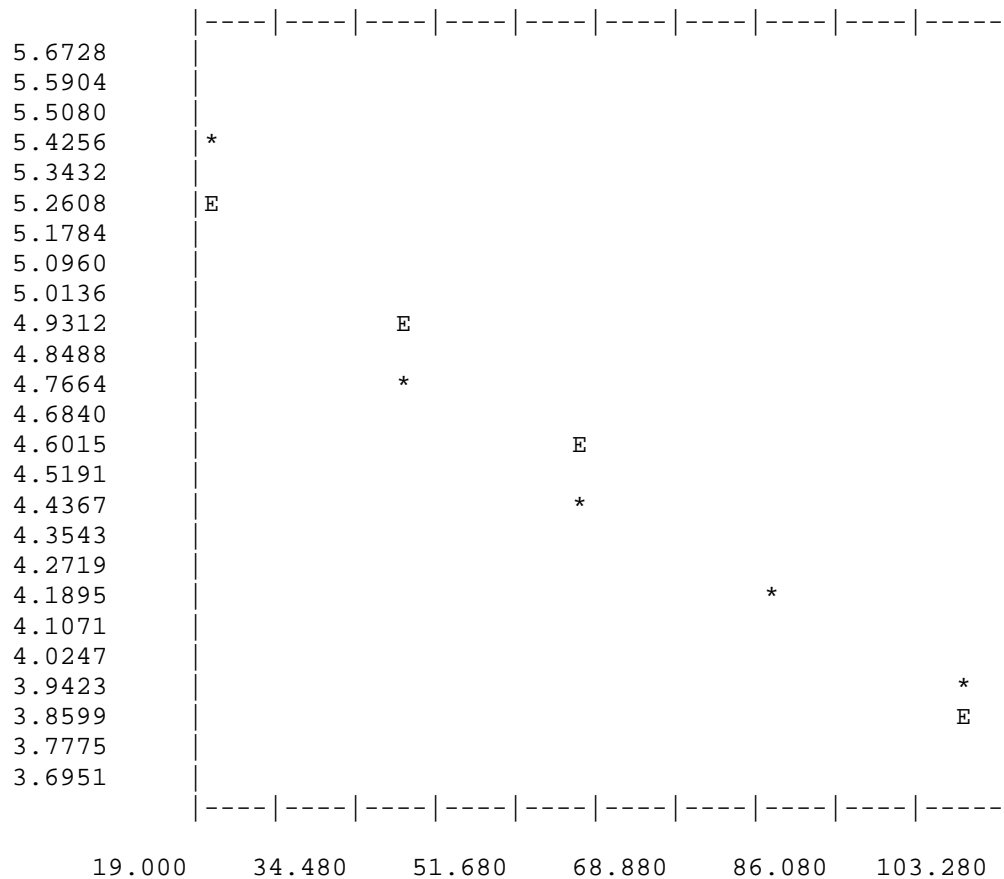
3.03

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 12

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.59871	-0.01796	0.97356	0.94782
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	221.	5.40268	5.23953
2	40.	115.	4.75359	4.88035
3	60.	80.	4.39445	4.52117
4	80.	62.	4.14313	4.16200
5	100.	49.	3.91202	3.80282



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.35

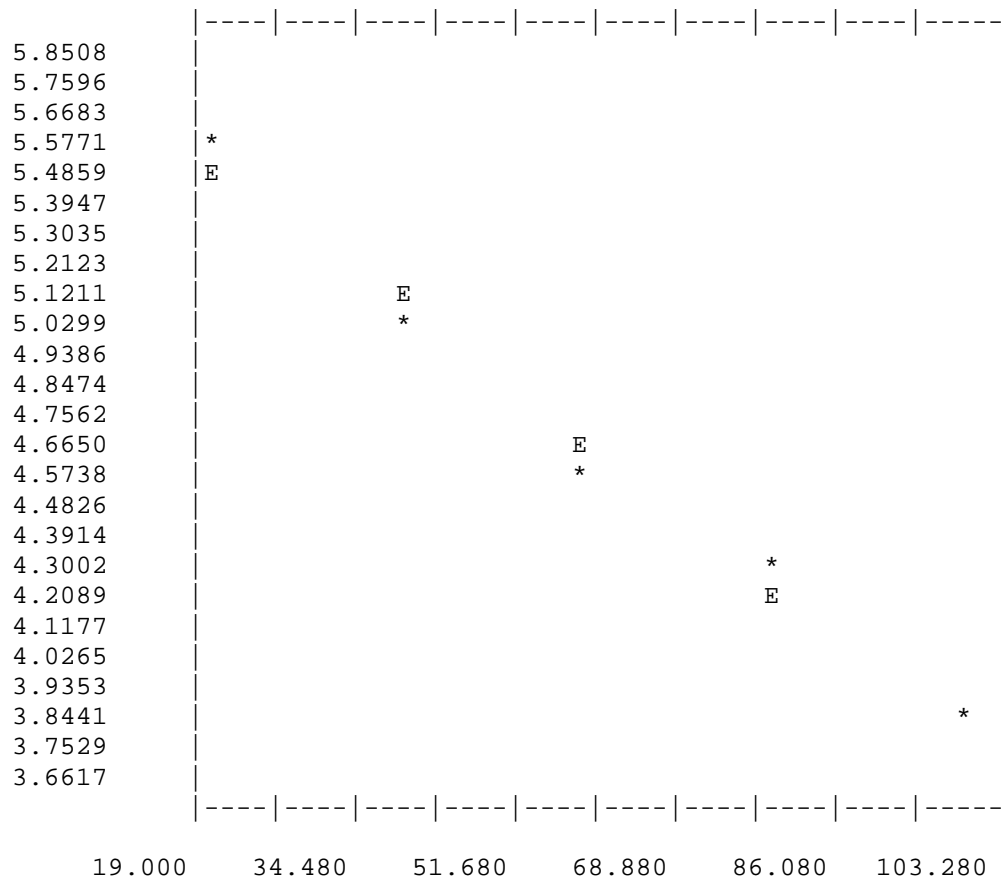
3.42

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 13

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	5.91072	-0.02152	0.99345	0.98695
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	262.	5.57215	5.48025
2	40.	142.	4.96284	5.04978
3	60.	93.	4.54329	4.61932
4	80.	68.	4.23411	4.18885
5	100.	43.	3.78419	3.75838



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.61

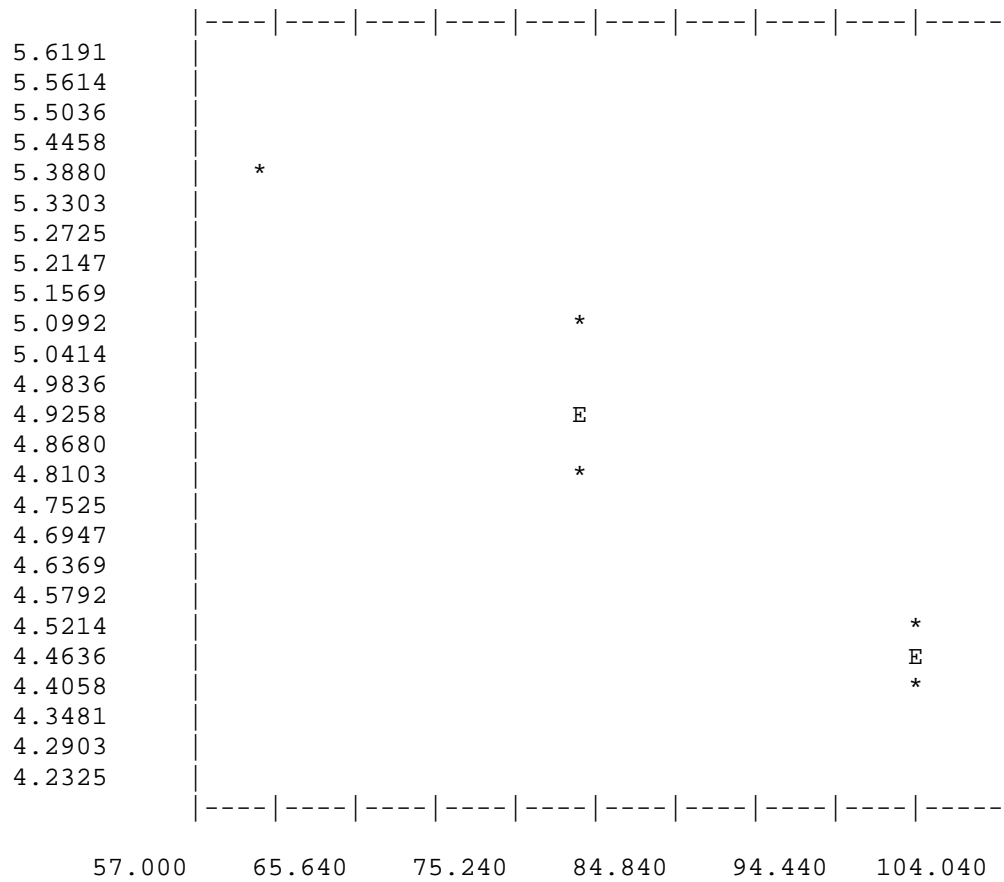
2.85

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 14

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.70967	-0.02264	0.95718	0.91620
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	60.	208.	5.34233	5.35156
2	80.	157.	5.06259	4.89886
3	80.	115.	4.75359	4.89886
4	100.	88.	4.48864	4.44616
5	100.	80.	4.39445	4.44616



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

0.91

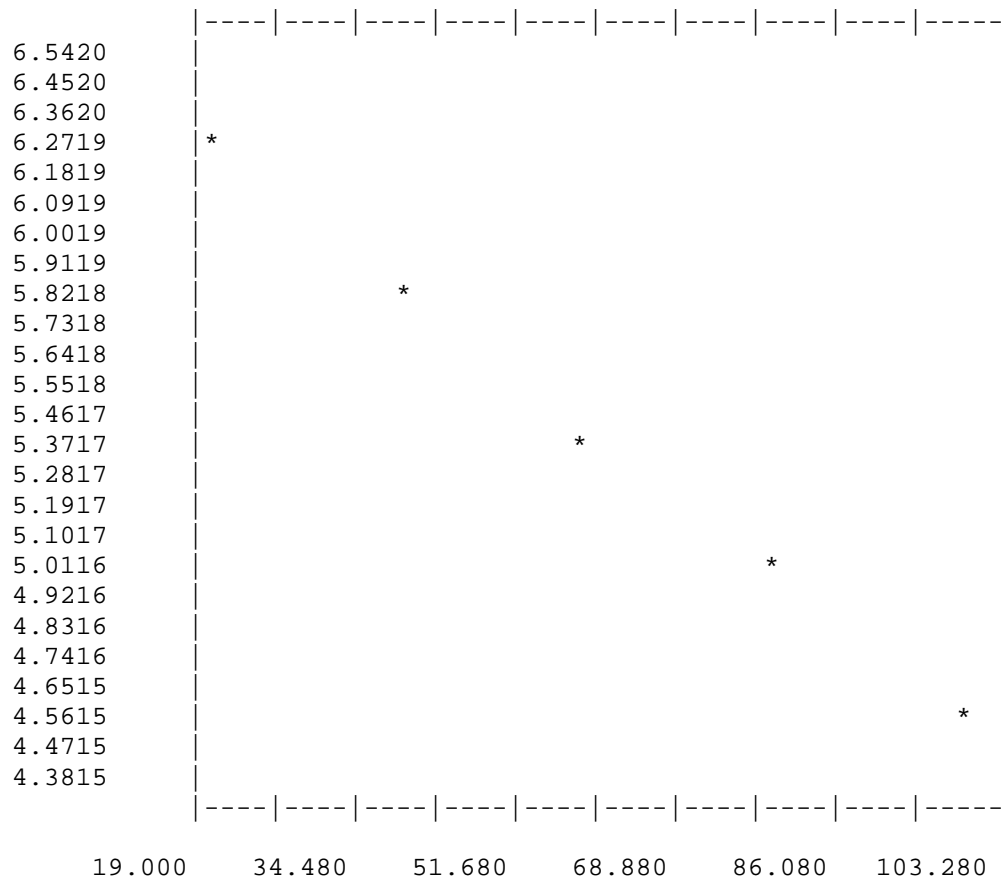
5.09

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 15

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.62348	-0.02106	0.99928	0.99855
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	507.	6.23048	6.20225
2	40.	318.	5.76519	5.78102
3	60.	206.	5.33272	5.35979
4	80.	137.	4.92725	4.93856
5	100.	93.	4.54329	4.51733



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.58

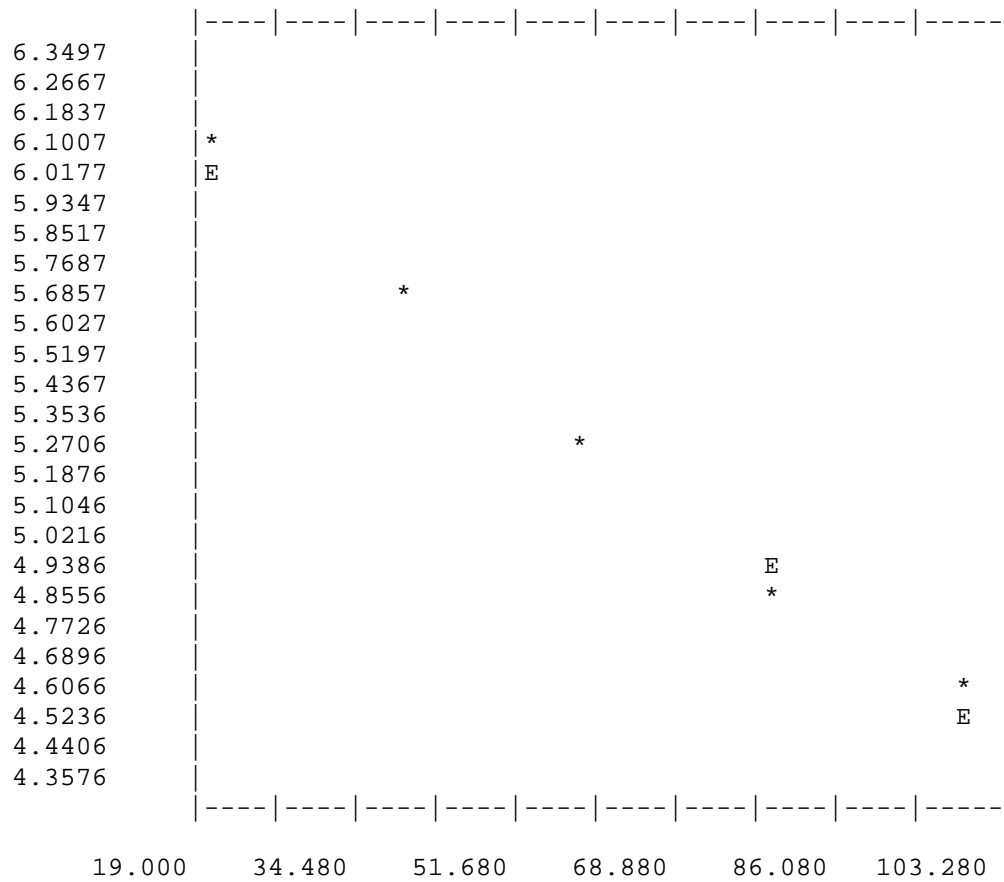
2.92

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 17

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.37242	-0.01873	0.99350	0.98703
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	422.	6.04737	5.99784
2	40.	274.	5.61677	5.62326
3	60.	180.	5.19850	5.24868
4	80.	120.	4.79579	4.87410
5	100.	97.	4.58497	4.49952



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

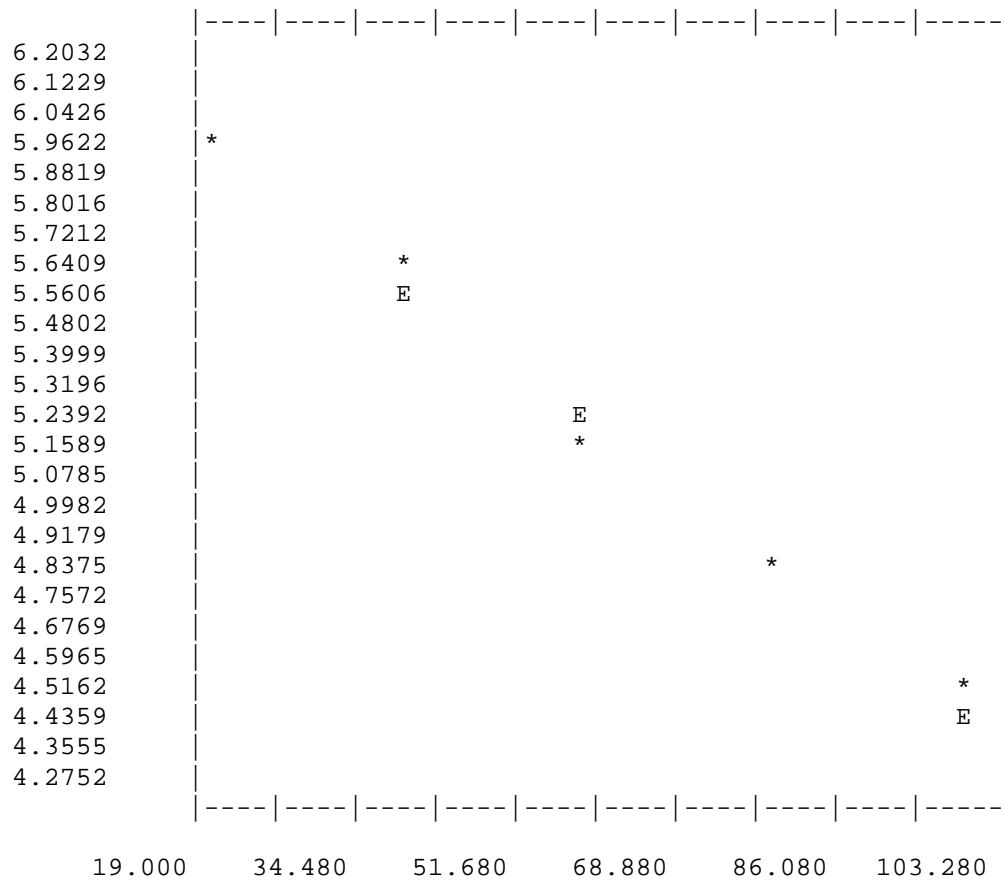
3.28

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 18

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.28090	-0.01865	0.99664	0.99329
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	359.	5.88610	5.90785
2	40.	271.	5.60580	5.53480
3	60.	165.	5.11199	5.16174
4	80.	116.	4.76217	4.78869
5	100.	84.	4.44265	4.41564



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.40

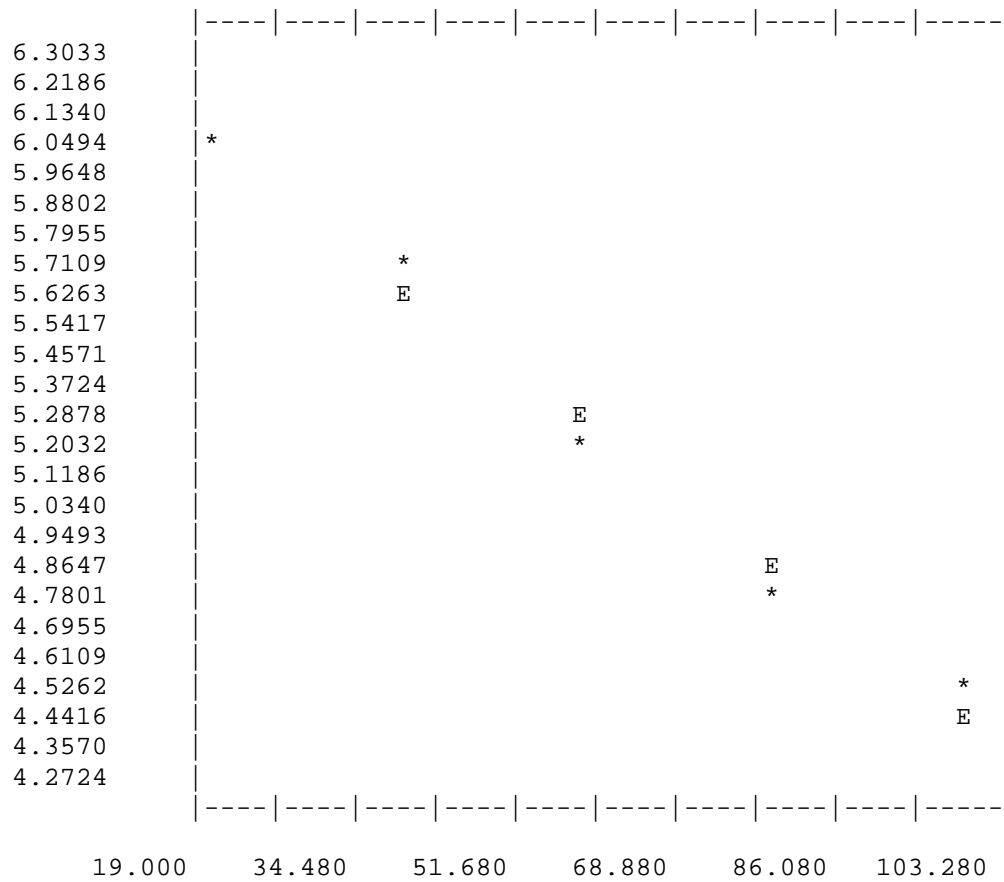
3.29

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 19

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.40184	-0.01994	0.99830	0.99660
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	402.	5.99894	6.00311
2	40.	282.	5.64545	5.60437
3	60.	175.	5.17048	5.20564
4	80.	117.	4.77068	4.80691
5	100.	84.	4.44265	4.40817



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.50

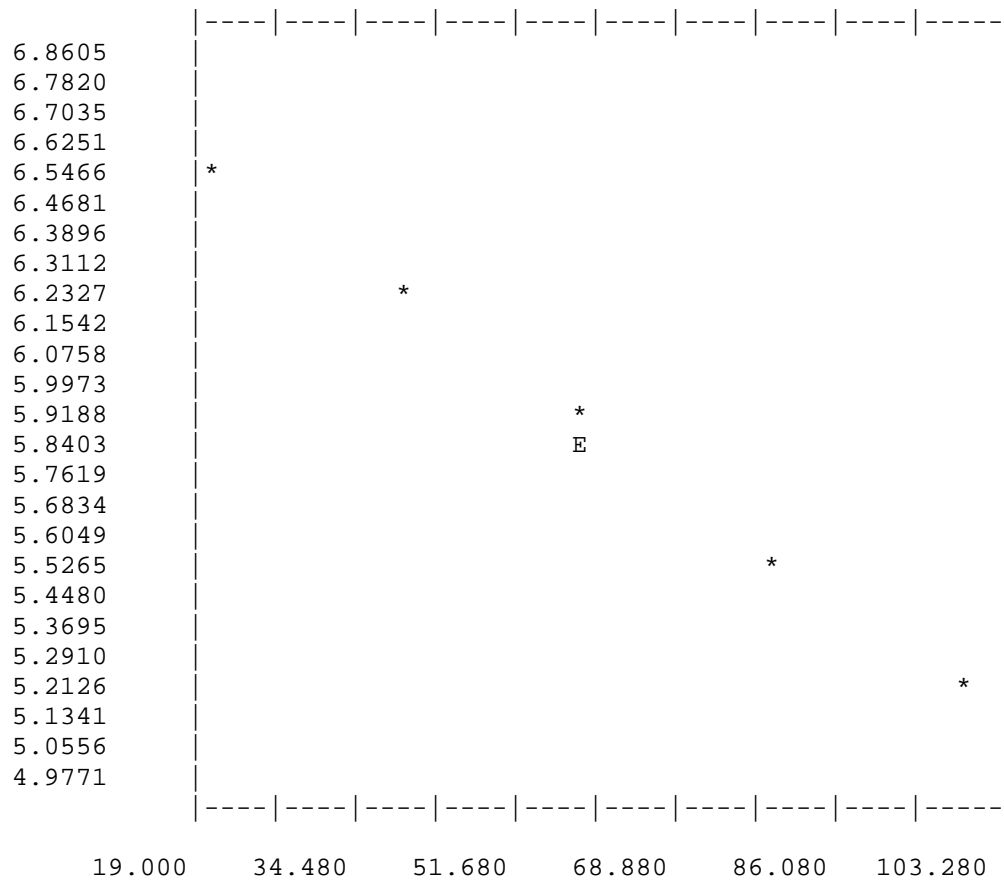
3.08

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 21

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.85797	-0.01701	0.99949	0.99897
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	687.	6.53379	6.51767
2	40.	471.	6.15698	6.17738
3	60.	344.	5.84354	5.83709
4	80.	239.	5.48064	5.49679
5	100.	175.	5.17048	5.15650



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.28

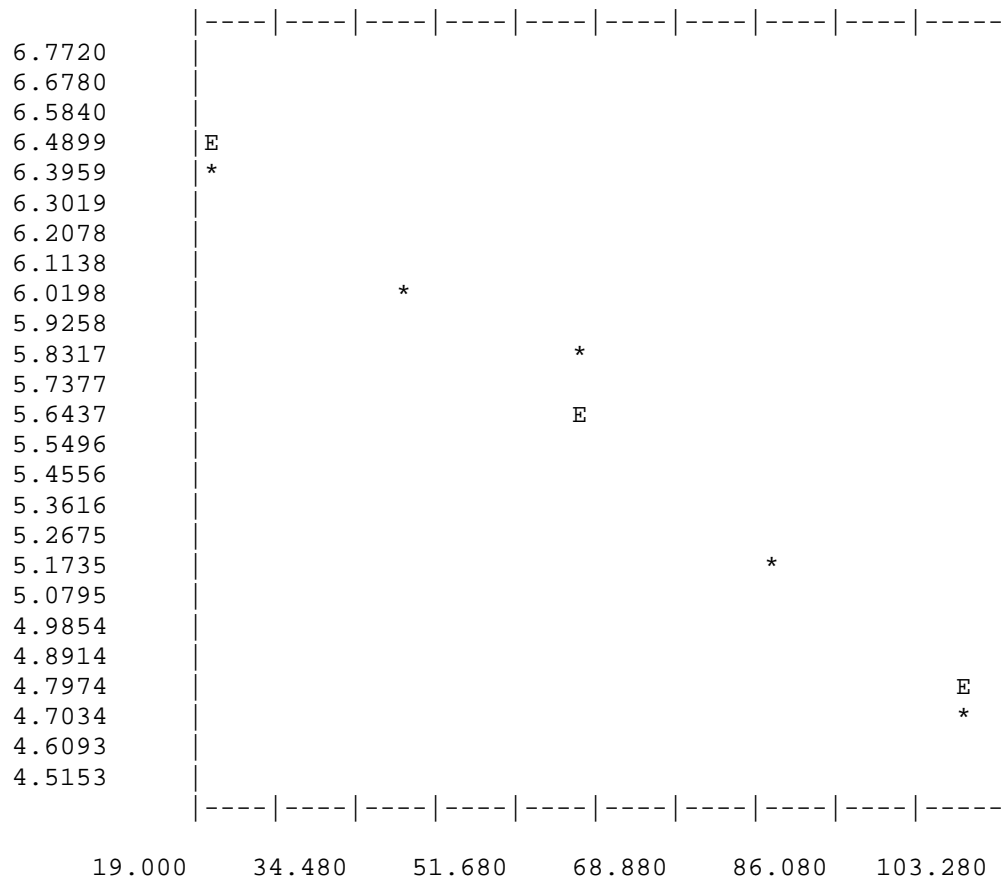
3.61

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 22

COEFFICIENTS FOR THE LINE $Y = A + BX$

	A	B	R	R SQUARED
	6.87999	-0.02152	0.98477	0.96978
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	583.	6.36990	6.44955
2	40.	401.	5.99645	6.01911
3	60.	329.	5.79909	5.58867
4	80.	167.	5.12396	5.15824
5	100.	104.	4.65396	4.72780



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.61

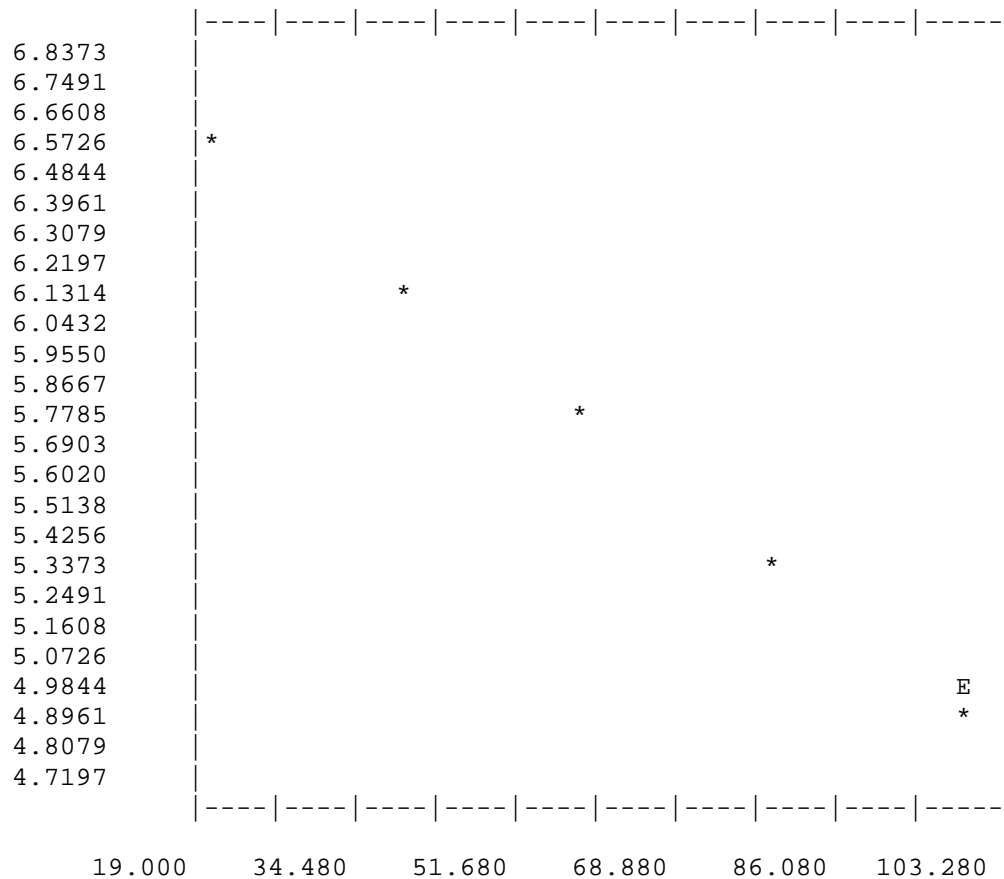
2.85

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 23

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.91265	-0.02005	0.99905	0.99810
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	660.	6.49375	6.51173
2	40.	447.	6.10479	6.11081
3	60.	311.	5.74300	5.70989
4	80.	206.	5.33272	5.30897
5	100.	130.	4.87520	4.90806



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.50

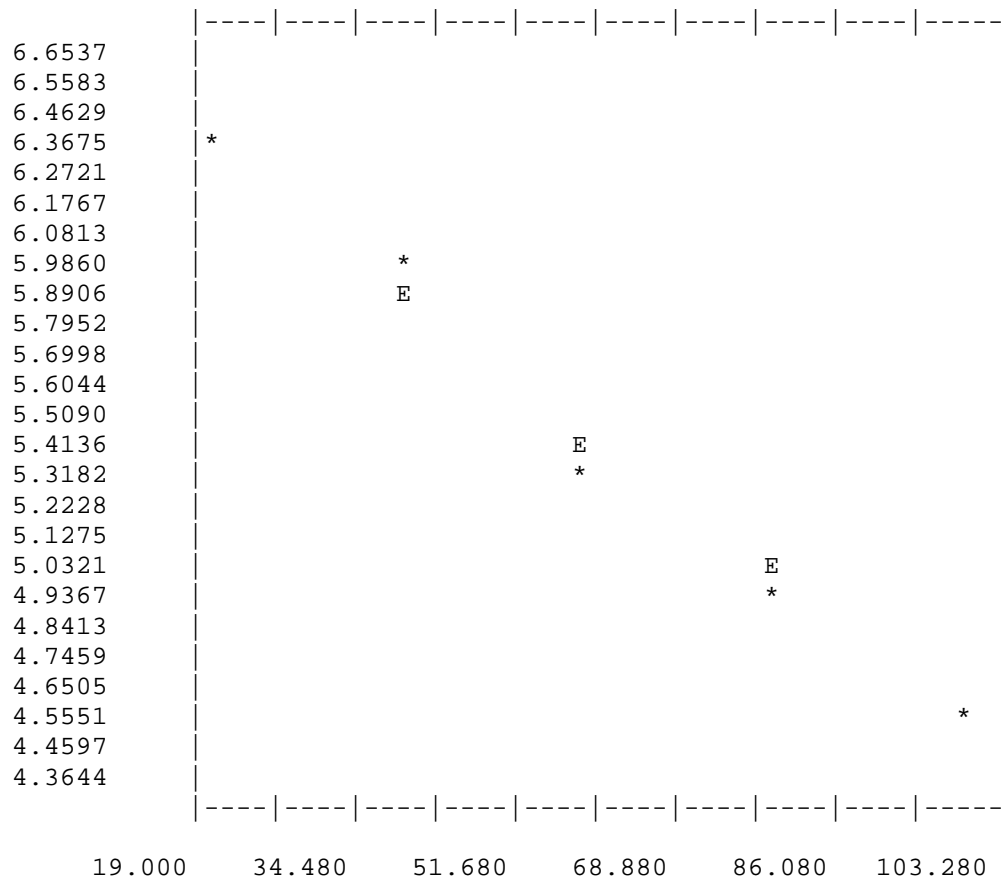
3.06

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 24

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.77431	-0.02281	0.99638	0.99277
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	564.	6.33683	6.31818
2	40.	367.	5.90808	5.86205
3	60.	203.	5.31812	5.40591
4	80.	135.	4.91265	4.94978
5	100.	94.	4.55388	4.49365



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.71

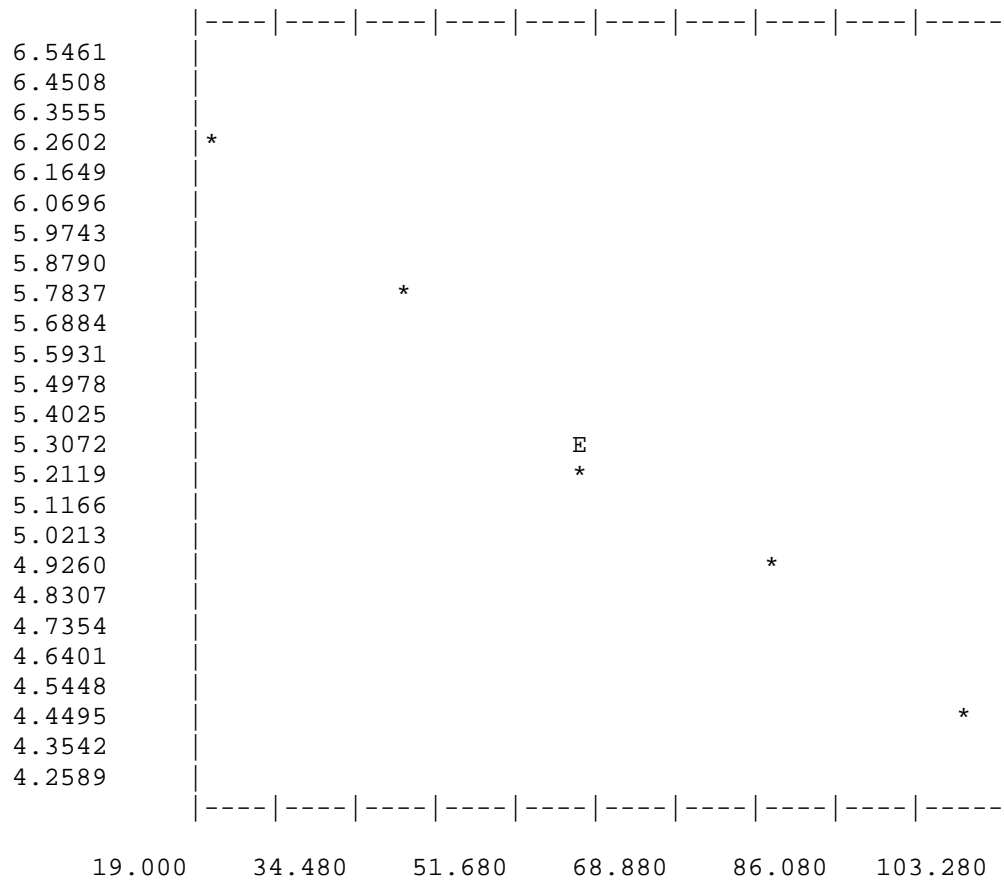
2.69

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 25

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.63023	-0.02247	0.99676	0.99352
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	509.	6.23441	6.18074
2	40.	300.	5.70711	5.73124
3	60.	179.	5.19296	5.28175
4	80.	129.	4.86753	4.83225
5	100.	81.	4.40672	4.38275



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.69

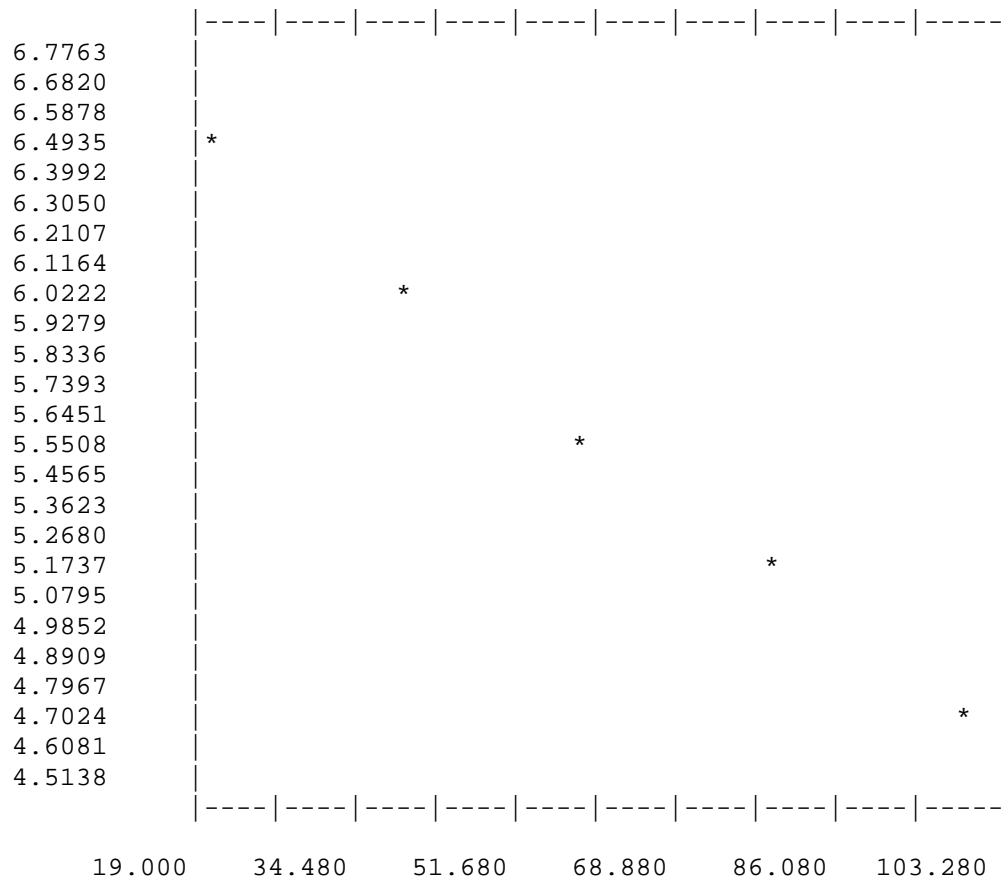
2.73

LIGHT PROFILE ANALYSES - FOR 12/26/2001

STATION LOCATION 92

COEFFICIENTS FOR THE LINE Y = A + BX

	A	B	R	R SQUARED
	6.88491	-0.02233	0.99920	0.99840
N	X = DEPTH (cm)	Y = LIGHT (ME)	LOG VALUE Y	EXPECTED Y
1	20.	634.	6.45363	6.43837
2	40.	404.	6.00389	5.99182
3	60.	245.	5.50533	5.54528
4	80.	160.	5.08140	5.09873
5	100.	107.	4.68213	4.65218



MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

1.67

2.75



Back to Start

APPENDIX G

**Summary of Water Chemistry Data
Collected in Conjunction with
“Fixed” Isohaline Stations**

Date	STATION	Distance from Mouth of River	DEPTH	Color (Platinum- cobalt units)	Turbidity (NTU)	Residue Volatile, suspended (mg/l)	Residue Total at 105 degC susp (mg/l)	Alkalinity Lab (mg/L as CaCO3)	Chloride Dissolved (mg/l as Cl)	IRON
17JAN01	#9	-2.4	Surface	28	67.0	3.3	0.6	121.0	17400.0	0.282
17JAN01	#9	-2.4	Bottom	17	84.0	7.4	0.6	122.0	17690.0	0.434
17JAN01	#10	6.6	Surface	22	1.6	4.9	0.6	117.0	15060.0	0.223
17JAN01	#10	6.6	Bottom	18	2.1	8.4	1.2	120.0	19520.0	0.594
17JAN01	#12	15.5	Surface	37	2.5	3.7	1.9	102.0	7970.0	0.207
17JAN01	#12	15.5	Bottom	37	3.1	11.5	4.3	106.0	9920.0	0.655
17JAN01	#14	23.6	Surface	47	3.2	5.0	3.8	82.7	2020.0	0.128
17JAN01	#14	23.6	Bottom	50	4.0	10.0	9.0	85.0	3030.0	0.169
17JAN01	#18	30.4	Surface	40	1.4	4.1	1.3	73.7	143.0	0.090
17JAN01	#18	30.4	Bottom	43	1.3	2.3	1.3	74.0	145.0	0.086
14FEB01	#9	-2.4	Surface	33	1.2	4.3	0.6	124.0	18490.0	0.239
14FEB01	#9	-2.4	Bottom	33	10.3	48.0	13.5	127.0	18830.0	0.231
14FEB01	#10	6.6	Surface	34	1.9	10.5	2.3	119.0	17050.0	0.263
14FEB01	#10	6.6	Bottom	40	2.4	11.3	0.6	119.0	16950.0	0.246
14FEB01	#12	15.5	Surface	55	4.2	11.8	4.5	99.9	7610.0	0.186
14FEB01	#12	15.5	Bottom	65	4.3	12.3	5.5	102.0	8980.0	0.219
14FEB01	#14	23.6	Surface	65	5.7	8.5	4.3	80.4	1710.0	0.133
14FEB01	#14	23.6	Bottom	65	5.9	8.8	3.3	81.5	1960.0	0.134
14FEB01	#18	30.4	Surface	55	2.3	1.8	0.6	84.0	96.9	0.073
14FEB01	#18	30.4	Bottom	55	2.7	5.0	2.5	83.6	96.4	0.117
15MAR01	#9	-2.4	Surface	30	8.8	17.6	4.0	124.0	17630.0	0.642
15MAR01	#9	-2.4	Bottom	25	8.5	20.8	6.0	125.0	18240.0	0.675
15MAR01	#10	6.6	Surface	31	7.7	44.0	5.0	117.0	16990.0	0.639
15MAR01	#10	6.6	Bottom	35	5.7	43.0	4.0	115.0	17970.0	0.662
15MAR01	#12	15.5	Surface	48	2.7	28.0	6.0	102.0	11780.0	0.336
15MAR01	#12	15.5	Bottom	50	3.6	26.0	4.0	97.9	11830.0	0.297
15MAR01	#14	23.6	Surface	100	4.3	10.0	3.0	82.5	5160.0	0.174
15MAR01	#14	23.6	Bottom	80	4.1	6.0	2.0	83.4	5390.0	0.259
15MAR01	#18	30.4	Surface	65	4.4	0.6	0.6	82.8	258.0	0.175
15MAR01	#18	30.4	Bottom	55	4.6	0.6	0.6	82.6	248.0	0.199
27APR01	#9	-2.4	Surface	48	5.1	44.0	2.0	120.0	18700.0	0.296
27APR01	#9	-2.4	Bottom	55	4.5	28.5	4.0	121.0	19400.0	0.334
27APR01	#10	6.6	Surface	40	7.2	36.0	5.0	113.0	16950.0	0.443
27APR01	#10	6.6	Bottom	43	9.8	39.5	10.5	113.0	17060.0	0.486
27APR01	#12	15.5	Surface	55	3.5	17.0	5.0	89.2	7330.0	0.138
27APR01	#12	15.5	Bottom	60	3.6	14.0	1.0	92.1	8340.0	0.191
27APR01	#14	23.6	Surface	85	3.3	9.5	4.5	69.3	1160.0	0.124
27APR01	#14	23.6	Bottom	85	6.3	14.5	5.0	69.2	1480.0	0.211
27APR01	#18	30.4	Surface	70	1.8	13.0	6.5	79.5	140.0	0.123
27APR01	#18	30.4	Bottom	70	1.7	4.5	4.0	79.0	142.0	0.125

Date	STATION	Distance from Mouth of River	DEPTH	Color (Platinum- cobalt units)	Turbidity (NTU)	Residue Volatile, suspended (mg/l)	Residue Total at 105 degC susp (mg/l)	Alkalinity Lab (mg/L as CaCO3)	Chloride Dissolved (mg/l as Cl)	IRON
29MAY01	#9	-2.4	Surface	16	3.0	21.0	4.5	125.0	19970.0	1.410
29MAY01	#9	-2.4	Bottom	11	3.5	18.4	3.0	125.0	19800.0	1.430
29MAY01	#10	6.6	Surface	28	6.4	30.0	4.5	122.0	18340.0	1.320
29MAY01	#10	6.6	Bottom	33	12.1	51.6	7.0	123.0	18510.0	1.630
29MAY01	#12	15.5	Surface	50	5.2	13.4	2.5	107.0	13940.0	0.994
29MAY01	#12	15.5	Bottom	50	5.4	12.5	2.0	107.0	14370.0	0.994
29MAY01	#14	23.6	Surface	80	5.3	9.3	1.8	81.3	7150.0	0.489
29MAY01	#14	23.6	Bottom	75	4.7	11.8	5.0	81.9	7460.0	0.520
29MAY01	#18	30.4	Surface	70	3.3	6.8	1.8	74.6	972.0	0.105
29MAY01	#18	30.4	Bottom	70	3.6	6.8	2.5	76.6	1250.0	0.123
26JUN01	#9	-2.4	Surface	22	1.2	9.5	1.8	120.0	17790.0	0.417
26JUN01	#9	-2.4	Bottom	21	2.4	12.5	2.5	121.0	18410.0	0.455
26JUN01	#10	6.6	Surface	42	3.1	15.0	3.0	109.0	12120.0	0.282
26JUN01	#10	6.6	Bottom	31	7.0	24.8	6.3	117.0	16340.0	0.544
26JUN01	#12	15.5	Surface	70	3.6	6.0	1.5	87.2	4550.0	0.198
26JUN01	#12	15.5	Bottom	65	8.0	15.5	1.0	94.6	6370.0	0.296
26JUN01	#14	23.6	Surface	120	2.3	4.3	2.3	60.2	207.0	0.226
26JUN01	#14	23.6	Bottom	125	2.2	1.5	1.5	60.3	189.0	0.220
26JUN01	#18	30.4	Surface	140	2.2	1.8	0.8	61.6	74.6	0.254
26JUN01	#18	30.4	Bottom	140	3.2	4.3	0.8	61.8	71.1	0.276
26JUL01	#9	-2.4	Surface	240	2.7	7.0	0.8	63.4	4030.0	0.314
26JUL01	#9	-2.4	Bottom	80	2.0	11.5	4.3	100.0	12780.0	0.511
26JUL01	#10	6.6	Surface	300	2.7	3.5	0.8	44.7	389.0	0.479
26JUL01	#10	6.6	Bottom	130	3.0	13.3	2.8	94.4	10640.0	0.398
26JUL01	#12	15.5	Surface	360	4.7	7.5	3.5	38.7	34.6	0.526
26JUL01	#12	15.5	Bottom	380	4.8	14.5	7.5	36.8	31.8	0.531
26JUL01	#14	23.6	Surface	380	3.6	3.8	1.0	36.8	29.5	0.484
26JUL01	#14	23.6	Bottom	380	3.5	4.8	0.8	36.6	28.8	0.488
26JUL01	#18	30.4	Surface	400	2.1	5.0	1.0	33.7	21.6	0.513
26JUL01	#18	30.4	Bottom	380	2.1	2.5	1.3	33.2	21.8	0.494
27AUG01	#9	-2.4	Surface	140	1.9	4.8	0.8	93.2	8730.0	0.252
27AUG01	#9	-2.4	Bottom	170	1.8	12.3	4.3	95.0	9250.0	0.245
27AUG01	#10	6.6	Surface	180	2.3	6.3	0.7	92.1	6880.0	0.310
27AUG01	#10	6.6	Bottom	120	1.8	10.0	2.7	99.7	10680.0	0.680
27AUG01	#12	15.5	Surface	320	2.8	5.3	5.3	56.7	364.0	0.274
27AUG01	#12	15.5	Bottom	400	2.9	6.5	3.5	65.0	1590.0	0.540
27AUG01	#14	23.6	Surface	360	3.0	5.0	2.3	56.5	34.5	0.782
27AUG01	#14	23.6	Bottom	360	2.6	5.5	3.5	56.2	35.0	0.745
27AUG01	#18	30.4	Surface	360	2.8	5.0	3.7	59.3	32.0	0.779
27AUG01	#18	30.4	Bottom	340	3.8	16.0	7.3	59.8	31.6	0.886

Date	STATION	Distance from Mouth of River	DEPTH	Color (Platinum- cobalt units)	Turbidity (NTU)	Residue Volatile, suspended (mg/l)	Residue Total at 105 degC susp (mg/l)	Alkalinity Lab (mg/L as CaCO3)	Chloride Dissolved (mg/l as Cl)	IRON
26SEP01	#9	-2.4	Surface	310	1.7	7.5	3.3	50.3	1540.0	0.361
26SEP01	#9	-2.4	Bottom	200	1.5	4.3	2.3	75.2	5990.0	0.235
26SEP01	#10	6.6	Surface	380	1.9	4.3	2.5	45.6	78.6	0.483
26SEP01	#10	6.6	Bottom	180	1.8	9.3	8.8	78.6	5990.0	0.369
26SEP01	#12	15.5	Surface	510	1.5	28.0	2.0	43.8	15.4	0.521
26SEP01	#12	15.5	Bottom	380	1.6	4.8	3.3	43.5	14.4	0.530
26SEP01	#14	23.6	Surface	420	1.5	0.8	0.8	43.9	14.3	0.532
26SEP01	#14	23.6	Bottom	380	1.4	2.8	2.5	44.8	14.4	0.534
26SEP01	#18	30.4	Surface	410	1.5	0.8	0.8	43.1	13.8	0.532
26SEP01	#18	30.4	Bottom	380	1.5	0.8	0.8	41.4	13.6	0.529
25OCT01	#9	-2.4	Surface	75	1.0	10.5	5.0	94.6	9780.0	0.199
25OCT01	#9	-2.4	Bottom	60	3.7	18.0	8.0	101.0	11720.0	0.235
25OCT01	#10	6.6	Surface	200	2.4	14.0	9.0	88.0	7750.0	0.281
25OCT01	#10	6.6	Bottom	130	6.3	21.5	4.0	93.1	8970.0	0.317
25OCT01	#12	15.5	Surface	250	3.3	5.5	2.5	70.9	1260.0	0.555
25OCT01	#12	15.5	Bottom	280	3.9	12.5	5.0	74.4	2050.0	0.538
25OCT01	#14	23.6	Surface	210	2.4	1.5	1.0	61.6	42.4	0.634
25OCT01	#14	23.6	Bottom	220	2.4	1.5	1.5	61.5	43.4	0.592
25OCT01	#18	30.4	Surface	230	2.4	5.0	3.0	57.0	37.3	0.556
25OCT01	#18	30.4	Bottom	230	3.0	1.3	1.3	56.6	37.4	0.595
26NOV01	#9	-2.4	Surface	47	1.1	6.0	2.5	115.0	13810.0	0.261
26NOV01	#9	-2.4	Bottom	48	1.0	0.8	0.8	105.0	13650.0	0.239
26NOV01	#10	6.6	Surface	70	2.1	1.3	0.8	103.0	12510.0	0.260
26NOV01	#10	6.6	Bottom	140	7.9	35.3	17.0	105.0	12450.0	0.408
26NOV01	#12	15.5	Surface	140	3.2	5.0	2.6	92.3	6710.0	0.276
26NOV01	#12	15.5	Bottom	140	3.7	2.7	1.2	90.5	6640.0	0.317
26NOV01	#14	23.6	Surface	180	4.2	3.7	1.4	77.4	440.0	0.433
26NOV01	#14	23.6	Bottom	180	4.0	4.3	2.0	77.0	587.0	0.333
26NOV01	#18	30.4	Surface	160	4.1	0.8	0.8	80.8	46.4	0.376
26NOV01	#18	30.4	Bottom	160	3.1	1.3	0.9	81.3	46.8	0.373
26DEC01	#9	-2.4	Surface	46	4.0	4.5	0.8	107.0	14400.0	0.340
26DEC01	#9	-2.4	Bottom	60	3.7	12.5	2.0	109.0	14700.0	0.329
26DEC01	#10	6.6	Surface	70	2.5	6.5	3.0	104.0	11900.0	0.337
26DEC01	#10	6.6	Bottom	43	3.8	15.5	4.5	105.0	12800.0	0.508
26DEC01	#12	15.5	Surface	75	3.0	5.0	0.8	95.2	6100.0	0.191
26DEC01	#12	15.5	Bottom	65	2.8	4.0	0.8	95.4	6520.0	0.265
26DEC01	#14	23.6	Surface	75	3.7	4.0	3.0	92.1	524.0	0.227
26DEC01	#14	23.6	Bottom	80	3.3	4.0	1.5	90.6	736.0	0.198
26DEC01	#18	30.4	Surface	75	2.6	1.5	0.8	96.7	52.6	0.279
26DEC01	#18	30.4	Bottom	75	2.9	0.8	1.0	96.6	53.7	0.219

Date	STATION	Distance from Mouth of River	DEPTH	Nitrogen, Ammonia Total (mg/l as N)	Nitrogen, NO2+NO3 Total (mg/l as N)	Nitrogen, Total Kjeldahl (mg/l as N)	Phosphorus Ortho Total (mg/l as P)	Phosphorus, Phosphorus Total (mg/l as P)	NPA	Silica, Dissolved (mg/l as SiO2)
17JAN01	#9	-2.4	Surface	0.010	0.002	0.541	0.017	0.042	1.6	0.637
17JAN01	#9	-2.4	Bottom	0.010	0.002	0.602	0.023	0.046	1.2	0.537
17JAN01	#10	6.6	Surface	0.010	0.002	0.729	0.060	0.122	0.5	0.965
17JAN01	#10	6.6	Bottom	0.010	0.002	0.680	0.051	0.085	0.5	0.880
17JAN01	#12	15.5	Surface	0.010	0.002	0.914	0.184	0.284	0.1	0.908
17JAN01	#12	15.5	Bottom	0.010	0.002	0.881	0.180	0.250	0.2	0.989
17JAN01	#14	23.6	Surface	0.010	0.538	1.330	0.304	0.418	4.1	0.593
17JAN01	#14	23.6	Bottom	0.010	0.317	1.280	0.333	0.421	2.2	0.635
17JAN01	#18	30.4	Surface	0.010	1.630	0.881	0.281	0.348	13.3	0.428
17JAN01	#18	30.4	Bottom	0.010	1.640	0.896	0.285	0.353	13.2	0.437
14FEB01	#9	-2.4	Surface	0.010	0.002	0.534	0.010	0.032	2.7	0.987
14FEB01	#9	-2.4	Bottom	0.010	0.002	0.563	0.045	0.037	0.6	1.160
14FEB01	#10	6.6	Surface	0.010	0.002	0.633	0.042	0.079	0.7	1.270
14FEB01	#10	6.6	Bottom	0.010	0.002	0.585	0.038	0.078	0.7	1.270
14FEB01	#12	15.5	Surface	0.010	0.002	1.080	0.205	0.285	0.1	1.210
14FEB01	#12	15.5	Bottom	0.010	0.002	0.863	0.196	0.216	0.1	1.220
14FEB01	#14	23.6	Surface	0.010	0.002	1.340	0.404	0.514	0.1	0.050
14FEB01	#14	23.6	Bottom	0.010	0.002	1.330	0.417	0.476	0.1	0.082
14FEB01	#18	30.4	Surface	0.080	0.323	0.937	0.524	0.532	1.8	0.401
14FEB01	#18	30.4	Bottom	0.081	0.319	1.040	0.540	0.549	1.7	0.416
15MAR01	#9	-2.4	Surface	0.010	0.005	0.643	0.039	0.122	0.9	0.188
15MAR01	#9	-2.4	Bottom	0.014	0.052	0.745	0.049	0.137	3.1	0.188
15MAR01	#10	6.6	Surface	0.008	0.017	0.708	0.067	0.160	0.9	0.653
15MAR01	#10	6.6	Bottom	0.022	0.008	1.320	0.074	0.306	0.9	0.676
15MAR01	#12	15.5	Surface	0.014	0.072	1.040	0.145	0.244	1.4	2.160
15MAR01	#12	15.5	Bottom	0.022	0.009	0.963	0.150	0.227	0.5	2.170
15MAR01	#14	23.6	Surface	0.010	0.045	1.230	0.432	0.540	0.3	1.910
15MAR01	#14	23.6	Bottom	0.077	0.051	1.040	0.436	0.473	0.7	1.940
15MAR01	#18	30.4	Surface	0.012	0.050	1.060	0.734	0.784	0.2	0.781
15MAR01	#18	30.4	Bottom	0.027	0.052	1.020	0.752	0.800	0.2	0.784
27APR01	#9	-2.4	Surface	0.011	0.002	0.378	0.010	0.080	3.0	0.418
27APR01	#9	-2.4	Bottom	0.025	0.002	0.373	0.010	0.085	6.2	0.411
27APR01	#10	6.6	Surface	0.057	0.002	0.571	0.055	0.225	2.5	0.340
27APR01	#10	6.6	Bottom	0.027	0.003	0.698	0.049	0.244	1.4	0.321
27APR01	#12	15.5	Surface	0.023	0.043	0.872	0.279	0.387	0.5	2.430
27APR01	#12	15.5	Bottom	0.043	0.049	0.895	0.255	0.346	0.8	2.300
27APR01	#14	23.6	Surface	0.036	0.136	1.100	0.629	0.694	0.6	2.280
27APR01	#14	23.6	Bottom	0.069	0.140	1.040	0.626	0.746	0.8	2.430
27APR01	#18	30.4	Surface	0.036	0.073	0.889	0.658	0.705	0.4	0.932
27APR01	#18	30.4	Bottom	0.046	0.093	0.917	0.657	0.727	0.5	0.944

Date	STATION	Distance from Mouth of River	DEPTH	Nitrogen, Ammonia Total (mg/l as N)	Nitrogen, NO2+NO3 Total (mg/l as N)	Nitrogen, Total Kjeldahl (mg/l as N)	Phosphorus Ortho Total (mg/l as P)	Phosphorus, Phosphorus Total (mg/l as P)	NPA	Silica, Dissolved (mg/l as SiO2)
29MAY01	#9	-2.4	Surface	0.010	0.002	0.879	0.010	0.051	2.7	0.314
29MAY01	#9	-2.4	Bottom	0.010	0.002	0.928	0.010	0.074	2.7	0.370
29MAY01	#10	6.6	Surface	0.010	0.002	0.979	0.034	0.154	0.8	0.141
29MAY01	#10	6.6	Bottom	0.010	0.002	1.520	0.038	0.482	0.7	0.211
29MAY01	#12	15.5	Surface	0.010	0.002	1.440	0.227	0.350	0.1	1.860
29MAY01	#12	15.5	Bottom	0.010	0.003	1.260	0.228	0.345	0.1	1.900
29MAY01	#14	23.6	Surface	0.010	0.015	1.690	0.459	0.571	0.1	1.780
29MAY01	#14	23.6	Bottom	0.022	0.040	1.620	0.460	0.556	0.3	2.000
29MAY01	#18	30.4	Surface	0.010	0.014	1.580	0.778	0.818	0.1	1.450
29MAY01	#18	30.4	Bottom	0.010	0.005	1.430	0.769	0.856	0.0	1.420
26JUN01	#9	-2.4	Surface	0.023	0.003	0.900	0.027	0.085	2.2	0.602
26JUN01	#9	-2.4	Bottom	0.027	0.002	0.994	0.027	0.098	2.5	1.460
26JUN01	#10	6.6	Surface	0.015	0.002	1.200	0.157	0.274	0.2	0.062
26JUN01	#10	6.6	Bottom	0.020	0.002	1.210	0.073	0.251	0.7	0.297
26JUN01	#12	15.5	Surface	0.099	0.219	1.740	0.395	0.550	1.8	1.620
26JUN01	#12	15.5	Bottom	0.037	0.103	1.640	0.333	0.525	1.0	0.890
26JUN01	#14	23.6	Surface	0.112	1.290	1.750	0.545	0.676	5.9	3.330
26JUN01	#14	23.6	Bottom	0.093	1.320	1.590	0.559	0.644	5.8	3.370
26JUN01	#18	30.4	Surface	0.081	1.590	1.280	0.556	0.631	6.9	3.640
26JUN01	#18	30.4	Bottom	0.101	1.640	1.330	0.525	0.676	7.6	3.720
26JUL01	#9	-2.4	Surface	0.166	0.193	2.140	0.305	0.445	2.7	4.030
26JUL01	#9	-2.4	Bottom	0.352	0.019	1.710	0.112	0.250	7.6	2.390
26JUL01	#10	6.6	Surface	0.134	0.353	2.270	0.467	0.627	2.4	5.520
26JUL01	#10	6.6	Bottom	0.496	0.049	2.070	0.233	0.338	5.3	5.300
26JUL01	#12	15.5	Surface	0.106	0.561	2.020	0.730	0.907	2.1	6.550
26JUL01	#12	15.5	Bottom	0.121	0.570	1.810	0.720	0.957	2.2	6.600
26JUL01	#14	23.6	Surface	0.105	0.555	2.050	0.750	0.932	2.0	6.650
26JUL01	#14	23.6	Bottom	0.098	0.579	2.300	0.752	0.924	2.1	6.690
26JUL01	#18	30.4	Surface	0.098	0.496	1.840	0.752	0.892	1.8	6.770
26JUL01	#18	30.4	Bottom	0.158	0.555	2.020	0.749	0.877	2.2	6.700
27AUG01	#9	-2.4	Surface	0.338	0.106	1.800	0.282	0.356	3.6	2.910
27AUG01	#9	-2.4	Bottom	0.321	0.027	1.740	0.267	0.351	3.0	2.840
27AUG01	#10	6.6	Surface	0.292	0.060	1.960	0.376	0.481	2.1	3.240
27AUG01	#10	6.6	Bottom	0.535	0.002	1.810	0.266	0.337	4.6	3.200
27AUG01	#12	15.5	Surface	0.064	0.437	2.140	0.682	0.786	1.7	3.630
27AUG01	#12	15.5	Bottom	0.171	0.354	2.120	0.622	0.722	1.9	3.690
27AUG01	#14	23.6	Surface	0.090	0.494	1.590	0.799	0.939	1.7	3.780
27AUG01	#14	23.6	Bottom	0.108	0.494	1.610	0.815	0.937	1.7	3.790
27AUG01	#18	30.4	Surface	0.104	0.526	1.540	0.841	0.987	1.7	3.950
27AUG01	#18	30.4	Bottom	0.106	0.526	1.630	0.857	1.050	1.7	3.960

Date	STATION	Distance from Mouth of River	DEPTH	Nitrogen, Ammonia Total (mg/l as N)	Nitrogen, NO2+NO3 Total (mg/l as N)	Nitrogen, Total Kjeldahl (mg/l as N)	Phosphorus Ortho Total (mg/l as P)	Phosphorus, Phosphorus Total (mg/l as P)	NPA	Silica, Dissolved (mg/l as SiO2)
26SEP01	#9	-2.4	Surface	0.195	0.091	1.770	0.617	0.701	1.1	2.920
26SEP01	#9	-2.4	Bottom	0.618	0.053	1.720	0.350	0.347	4.4	3.640
26SEP01	#10	6.6	Surface	0.079	0.103	1.870	0.825	1.040	0.5	3.110
26SEP01	#10	6.6	Bottom	0.640	0.041	2.040	0.385	0.569	4.0	3.560
26SEP01	#12	15.5	Surface	0.120	0.116	1.570	0.981	1.150	0.5	3.210
26SEP01	#12	15.5	Bottom	0.141	0.120	1.300	0.967	1.170	0.6	3.190
26SEP01	#14	23.6	Surface	0.167	0.127	0.209	1.000	1.070	0.7	3.260
26SEP01	#14	23.6	Bottom	0.158	0.127	1.630	0.991	1.230	0.7	3.270
26SEP01	#18	30.4	Surface	0.197	0.144	1.760	0.994	1.050	0.8	3.250
26SEP01	#18	30.4	Bottom	0.191	0.144	1.680	0.953	1.100	0.8	3.270
25OCT01	#9	-2.4	Surface	0.130	0.063	1.290	0.176	0.245	2.5	4.620
25OCT01	#9	-2.4	Bottom	0.141	0.057	1.150	0.139	0.223	3.3	4.570
25OCT01	#10	6.6	Surface	0.083	0.064	1.350	0.266	0.362	1.3	5.310
25OCT01	#10	6.6	Bottom	0.171	0.070	1.320	0.233	0.353	2.4	5.450
25OCT01	#12	15.5	Surface	0.036	0.341	1.820	0.571	0.740	1.5	9.970
25OCT01	#12	15.5	Bottom	0.057	0.265	1.690	0.499	0.622	1.5	8.360
25OCT01	#14	23.6	Surface	0.094	0.674	1.390	0.706	0.817	2.5	11.500
25OCT01	#14	23.6	Bottom	0.074	0.663	1.360	0.713	0.799	2.4	0.050
25OCT01	#18	30.4	Surface	0.097	0.894	1.430	0.649	0.729	3.5	11.500
25OCT01	#18	30.4	Bottom	0.080	0.906	1.390	0.654	0.743	3.4	10.800
26NOV01	#9	-2.4	Surface	0.026	.	0.548	0.079	0.119	.	1.260
26NOV01	#9	-2.4	Bottom	0.029	.	0.668	0.089	0.126	.	1.200
26NOV01	#10	6.6	Surface	0.112	.	0.696	0.157	0.176	.	1.920
26NOV01	#10	6.6	Bottom	0.124	.	0.601	0.118	0.180	.	1.730
26NOV01	#12	15.5	Surface	0.072	.	1.500	0.309	0.441	.	3.140
26NOV01	#12	15.5	Bottom	0.110	.	1.410	0.325	0.429	.	3.100
26NOV01	#14	23.6	Surface	0.017	.	1.430	0.666	0.780	.	5.080
26NOV01	#14	23.6	Bottom	0.023	.	1.320	0.057	0.744	.	4.980
26NOV01	#18	30.4	Surface	0.041	.	0.992	0.796	0.885	.	5.490
26NOV01	#18	30.4	Bottom	0.035	.	0.922	0.805	0.899	.	5.530
26DEC01	#9	-2.4	Surface	0.036	0.005	0.874	0.078	1.720	1.2	0.819
26DEC01	#9	-2.4	Bottom	0.041	0.006	0.881	0.073	3.130	1.5	0.840
26DEC01	#10	6.6	Surface	0.058	0.033	0.843	0.163	0.310	1.3	1.190
26DEC01	#10	6.6	Bottom	0.038	0.021	0.891	0.148	0.296	0.9	1.080
26DEC01	#12	15.5	Surface	0.041	0.164	1.000	0.423	0.505	1.1	2.680
26DEC01	#12	15.5	Bottom	0.064	0.151	1.140	0.397	1.660	1.2	2.600
26DEC01	#14	23.6	Surface	0.025	0.359	1.170	0.746	3.910	1.2	2.710
26DEC01	#14	23.6	Bottom	0.036	0.421	1.200	0.722	1.840	1.4	2.810
26DEC01	#18	30.4	Surface	0.029	0.649	0.862	0.861	1.830	1.8	2.980
26DEC01	#18	30.4	Bottom	0.033	0.805	0.728	0.869	0.890	2.2	3.000

Date	STATION	Distance from Mouth of River	DEPTH	Carbon, Organic Total (mg/l as C)	Carbon, Organic dissolved (mg/l as C)	Carbon, Inorganic Total (mg/l as C)	Chlorophyll a (ug/L)	> 20 um Size Fraction	20> <5 um Size Fraction	> 5 um Size Fraction
17JAN01	#9	-2.4	Surface	4.23	4.08	26.90	2.58	0.80	-0.33	2.11
17JAN01	#9	-2.4	Bottom	3.80	3.44	26.60	2.04	.	.	.
17JAN01	#10	6.6	Surface	5.88	5.54	27.20	4.66	0.43	-0.55	4.78
17JAN01	#10	6.6	Bottom	5.17	5.07	27.70	5.16	.	.	.
17JAN01	#12	15.5	Surface	9.53	8.94	22.30	13.20	1.20	0.60	11.40
17JAN01	#12	15.5	Bottom	9.17	8.41	23.20	11.10	.	.	.
17JAN01	#14	23.6	Surface	11.00	9.80	18.50	45.90	4.40	2.40	39.10
17JAN01	#14	23.6	Bottom	11.20	9.85	18.20	42.60	.	.	.
17JAN01	#18	30.4	Surface	9.45	9.05	15.60	16.90	1.80	1.00	14.10
17JAN01	#18	30.4	Bottom	14.80	14.30	10.70	13.00	.	.	.
14FEB01	#9	-2.4	Surface	4.19	2.91	26.10	2.04	0.00	0.00	2.04
14FEB01	#9	-2.4	Bottom	3.65	3.08	27.40	2.27	.	.	.
14FEB01	#10	6.6	Surface	4.69	4.52	27.90	4.04	0.20	-0.20	4.04
14FEB01	#10	6.6	Bottom	4.85	4.13	26.10	4.52	.	.	.
14FEB01	#12	15.5	Surface	8.74	8.05	23.80	22.10	5.20	3.40	13.50
14FEB01	#12	15.5	Bottom	8.76	7.95	22.80	14.10	.	.	.
14FEB01	#14	23.6	Surface	10.60	9.26	17.10	49.30	7.20	3.20	38.90
14FEB01	#14	23.6	Bottom	10.60	8.97	17.30	46.50	.	.	.
14FEB01	#18	30.4	Surface	8.89	8.98	18.60	6.55	0.44	-2.28	8.39
14FEB01	#18	30.4	Bottom	9.00	8.80	18.80	9.30	.	.	.
15MAR01	#9	-2.4	Surface	2.49	1.74	28.40	4.99	3.87	-0.44	1.56
15MAR01	#9	-2.4	Bottom	2.28	1.74	27.60	2.04	.	.	.
15MAR01	#10	6.6	Surface	3.64	3.21	26.50	8.62	5.70	-0.92	3.84
15MAR01	#10	6.6	Bottom	3.61	2.80	27.00	5.23	.	.	.
15MAR01	#12	15.5	Surface	6.95	6.58	23.50	19.80	-3.20	5.30	17.70
15MAR01	#12	15.5	Bottom	6.79	6.36	24.90	11.10	.	.	.
15MAR01	#14	23.6	Surface	9.13	8.51	20.60	34.10	-0.30	1.20	33.20
15MAR01	#14	23.6	Bottom	9.05	8.58	20.70	6.28	.	.	.
15MAR01	#18	30.4	Surface	8.66	7.81	19.80	34.40	2.50	16.20	15.70
15MAR01	#18	30.4	Bottom	8.34	7.61	19.90	17.50	.	.	.
27APR01	#9	-2.4	Surface	3.36	3.40	27.40	6.72	4.48	-0.65	2.89
27APR01	#9	-2.4	Bottom	3.60	3.03	27.40	2.92	.	.	.
27APR01	#10	6.6	Surface	5.72	5.27	25.00	3.80	0.64	0.03	3.13
27APR01	#10	6.6	Bottom	5.59	5.11	25.60	3.33	.	.	.
27APR01	#12	15.5	Surface	12.10	11.10	19.80	29.60	3.60	-0.90	26.90
27APR01	#12	15.5	Bottom	11.80	10.40	18.70	20.00	.	.	.
27APR01	#14	23.6	Surface	15.50	13.30	13.70	15.20	0.90	-0.60	14.90
27APR01	#14	23.6	Bottom	14.80	14.70	14.30	9.68	.	.	.
27APR01	#18	30.4	Surface	14.30	13.70	16.00	6.58	-0.24	-0.92	7.74
27APR01	#18	30.4	Bottom	14.30	13.90	16.00	8.86	.	.	.

Date	STATION	Distance from Mouth of River	DEPTH	Carbon, Organic Total (mg/l as C)	Carbon, Organic dissolved (mg/l as C)	Carbon, Inorganic Total (mg/l as C)	Chlorophyll a (ug/L)	> 20 um Size Fraction	20> <5 um Size Fraction	> 5 um Size Fraction
29MAY01	#9	-2.4	Surface	3.59	2.84	26.20	8.85	5.46	1.79	1.60
29MAY01	#9	-2.4	Bottom	3.49	3.37	28.80	17.10	.	.	.
29MAY01	#10	6.6	Surface	6.55	4.70	25.30	15.70	12.31	1.15	2.24
29MAY01	#10	6.6	Bottom	4.77	4.53	29.90	21.80	.	.	.
29MAY01	#12	15.5	Surface	10.60	9.47	23.60	19.10	1.60	4.20	13.30
29MAY01	#12	15.5	Bottom	9.19	19.30	28.20	17.70	.	.	.
29MAY01	#14	23.6	Surface	22.80	20.30	12.30	45.70	12.50	13.70	19.50
29MAY01	#14	23.6	Bottom	21.80	21.00	10.60	28.20	.	.	.
29MAY01	#18	30.4	Surface	21.30	19.40	11.60	35.80	2.70	3.90	29.20
29MAY01	#18	30.4	Bottom	20.30	19.30	10.20	35.90	.	.	.
26JUN01	#9	-2.4	Surface	5.40	4.71	21.10	2.69	0.65	-0.03	2.07
26JUN01	#9	-2.4	Bottom	4.48	3.90	23.10	6.14	.	.	.
26JUN01	#10	6.6	Surface	9.25	8.71	18.40	4.07	2.30	0.00	1.77
26JUN01	#10	6.6	Bottom	7.39	5.51	20.10	4.96	.	.	.
26JUN01	#12	15.5	Surface	11.90	11.20	14.70	15.00	2.30	-0.50	13.20
26JUN01	#12	15.5	Bottom	12.40	10.90	15.90	9.23	.	.	.
26JUN01	#14	23.6	Surface	15.40	15.10	11.60	4.25	-0.94	0.91	4.28
26JUN01	#14	23.6	Bottom	15.60	15.20	9.86	3.13	.	.	.
26JUN01	#18	30.4	Surface	16.90	17.40	12.10	4.07	0.64	0.51	2.92
26JUN01	#18	30.4	Bottom	21.30	21.40	7.60	2.71	.	.	.
26JUL01	#9	-2.4	Surface	23.00	22.40	10.40	6.82	3.66	0.24	2.92
26JUL01	#9	-2.4	Bottom	10.20	9.93	19.10	7.50	.	.	.
26JUL01	#10	6.6	Surface	31.10	31.00	6.03	2.00	-0.24	0.23	2.01
26JUL01	#10	6.6	Bottom	30.10	29.40	7.63	2.01	.	.	.
26JUL01	#12	15.5	Surface	36.20	36.00	4.15	1.56	0.03	0.44	1.09
26JUL01	#12	15.5	Bottom	37.10	35.60	4.43	1.33	.	.	.
26JUL01	#14	23.6	Surface	37.10	36.30	5.06	1.12	0.03	0.09	1.00
26JUL01	#14	23.6	Bottom	36.60	35.40	2.76	1.09	.	.	.
26JUL01	#18	30.4	Surface	38.20	37.60	3.48	1.00	0.00	0.00	1.00
26JUL01	#18	30.4	Bottom	37.50	37.40	3.04	1.00	.	.	.
27AUG01	#9	-2.4	Surface	16.20	15.70	19.30	17.20	6.80	1.57	8.83
27AUG01	#9	-2.4	Bottom	15.30	15.60	19.30	16.20	.	.	.
27AUG01	#10	6.6	Surface	20.20	17.30	18.10	24.50	13.20	0.20	11.10
27AUG01	#10	6.6	Bottom	13.40	13.30	22.30	5.37	.	.	.
27AUG01	#12	15.5	Surface	32.30	27.80	11.50	8.59	-2.71	2.74	8.56
27AUG01	#12	15.5	Bottom	28.00	25.30	12.30	4.51	.	.	.
27AUG01	#14	23.6	Surface	31.70	32.10	10.60	1.56	-0.41	0.17	1.80
27AUG01	#14	23.6	Bottom	31.70	28.70	10.50	1.32	.	.	.
27AUG01	#18	30.4	Surface	34.10	28.50	10.70	2.51	0.50	0.18	1.83
27AUG01	#18	30.4	Bottom	32.20	31.20	11.90	1.56	.	.	.

Date	STATION	Distance from Mouth of River	DEPTH	Carbon, Organic Total (mg/l as C)	Carbon, Organic dissolved (mg/l as C)	Carbon, Inorganic Total (mg/l as C)	Chlorophyll a (ug/L)	> 20 um Size Fraction	20> <5 um Size Fraction	> 5 um Size Fraction
26SEP01	#9	-2.4	Surface	29.30	30.00	10.10	3.87	0.44	0.51	2.92
26SEP01	#9	-2.4	Bottom	15.80	17.30	20.00	2.72	.	.	.
26SEP01	#10	6.6	Surface	34.10	34.50	7.13	2.27	0.26	0.42	1.59
26SEP01	#10	6.6	Bottom	17.50	17.20	17.20	2.48	.	.	.
26SEP01	#12	15.5	Surface	38.70	36.20	6.63	2.27	0.20	0.44	1.63
26SEP01	#12	15.5	Bottom	37.20	35.50	6.77	1.00	.	.	.
26SEP01	#14	23.6	Surface	36.00	35.30	8.20	1.12	0.12	-0.59	1.59
26SEP01	#14	23.6	Bottom	36.00	36.70	8.26	1.36	.	.	.
26SEP01	#18	30.4	Surface	36.80	35.10	8.00	1.36	0.27	-0.03	1.12
26SEP01	#18	30.4	Bottom	36.80	34.60	7.02	1.00	.	.	.
25OCT01	#9	-2.4	Surface	11.50	11.60	20.70	10.00	6.57	0.03	3.40
25OCT01	#9	-2.4	Bottom	11.90	11.40	20.60	6.14	.	.	.
25OCT01	#10	6.6	Surface	15.20	15.70	18.90	27.70	16.70	1.16	9.84
25OCT01	#10	6.6	Bottom	11.80	12.00	20.20	18.50	.	.	.
25OCT01	#12	15.5	Surface	23.80	24.20	14.50	27.10	10.10	1.80	15.20
25OCT01	#12	15.5	Bottom	21.40	20.70	15.90	24.00	.	.	.
25OCT01	#14	23.6	Surface	24.80	24.90	12.40	2.31	-0.64	-1.16	4.11
25OCT01	#14	23.6	Bottom	25.20	25.20	12.00	1.00	.	.	.
25OCT01	#18	30.4	Surface	25.90	25.70	11.00	1.39	-0.21	-0.23	1.83
25OCT01	#18	30.4	Bottom	26.40	26.10	11.00	1.00	.	.	.
26NOV01	#9	-2.4	Surface	8.68	7.57	22.90	4.14	2.07	0.41	1.66
26NOV01	#9	-2.4	Bottom	6.67	8.03	22.50	4.14	.	.	.
26NOV01	#10	6.6	Surface	9.63	11.00	21.50	7.09	4.16	0.83	2.10
26NOV01	#10	6.6	Bottom	8.65	9.04	22.50	6.62	.	.	.
26NOV01	#12	15.5	Surface	15.60	16.10	20.00	18.90	4.50	3.00	11.40
26NOV01	#12	15.5	Bottom	21.10	26.30	19.20	8.25	.	.	.
26NOV01	#14	23.6	Surface	19.90	20.00	16.00	19.40	2.00	2.80	14.60
26NOV01	#14	23.6	Bottom	23.30	23.50	18.90	16.00	.	.	.
26NOV01	#18	30.4	Surface	17.80	19.20	17.60	8.25	0.00	1.60	6.65
26NOV01	#18	30.4	Bottom	18.00	17.40	17.50	7.57	.	.	.
26DEC01	#9	-2.4	Surface	7.07	5.17	24.10	6.14	1.39	0.71	4.04
26DEC01	#9	-2.4	Bottom	6.11	8.08	24.30	8.18	.	.	.
26DEC01	#10	6.6	Surface	7.87	9.14	23.00	9.30	3.22	0.65	5.43
26DEC01	#10	6.6	Bottom	8.49	8.63	23.10	10.00	.	.	.
26DEC01	#12	15.5	Surface	12.00	14.00	20.70	9.33	2.07	-2.31	9.57
26DEC01	#12	15.5	Bottom	11.60	10.60	21.20	5.46	.	.	.
26DEC01	#14	23.6	Surface	13.30	14.00	20.50	13.00	-3.20	5.10	11.10
26DEC01	#14	23.6	Bottom	13.50	14.30	20.10	10.90	.	.	.
26DEC01	#18	30.4	Surface	11.60	13.20	21.70	14.80	3.80	6.22	4.78
26DEC01	#18	30.4	Bottom	11.80	11.70	21.60	15.00	.	.	.



Back to Start

APPENDIX H

2001 Flows & Withdrawals

DATE	Peace River	Horse Creek	Joshua Creek	Shell Creek	Facility Withdrawals (cfs)
	at Arcadia (cfs) - Gage 02296750	at Aracadia (cfs) - Gage 02297310	at Nocatee (cfs) - Gage 02297100	at Punta Gorda (cfs) - Gage 02298202	
01/01/01	69.0	10.0	26.0	31.0	0.0
01/02/01	78.0	9.4	29.0	36.0	0.0
01/03/01	87.0	8.6	26.0	40.0	0.0
01/04/01	84.0	8.2	24.0	43.0	0.0
01/05/01	74.0	9.2	29.0	44.0	0.0
01/06/01	75.0	9.2	30.0	51.0	0.0
01/07/01	80.0	8.1	27.0	54.0	0.0
01/08/01	82.0	8.0	25.0	55.0	0.0
01/09/01	77.0	7.7	30.0	55.0	0.0
01/10/01	72.0	8.2	30.0	53.0	0.0
01/11/01	75.0	8.2	32.0	52.0	0.0
01/12/01	86.0	7.9	29.0	51.0	0.0
01/13/01	86.0	7.7	28.0	54.0	0.0
01/14/01	81.0	7.8	26.0	52.0	0.0
01/15/01	79.0	7.6	25.0	57.0	0.0
01/16/01	77.0	7.1	25.0	62.0	0.0
01/17/01	79.0	6.9	24.0	62.0	0.0
01/18/01	76.0	7.0	24.0	61.0	0.0
01/19/01	76.0	6.4	23.0	60.0	0.0
01/20/01	79.0	6.6	24.0	58.0	0.0
01/21/01	76.0	8.0	22.0	57.0	0.0
01/22/01	70.0	7.3	22.0	51.0	0.0
01/23/01	74.0	6.4	22.0	32.0	0.0
01/24/01	70.0	6.2	22.0	26.0	0.0
01/25/01	65.0	5.8	21.0	22.0	0.0
01/26/01	61.0	5.7	22.0	0.0	0.0
01/27/01	61.0	5.8	23.0	0.0	0.0
01/28/01	63.0	5.7	24.0	0.0	0.0
01/29/01	61.0	5.5	23.0	0.0	0.0
01/30/01	60.0	5.4	22.0	0.0	0.0
01/31/01	59.0	5.3	23.0	0.0	0.0
02/01/01	57.0	5.3	22.0	0.0	0.0
02/02/01	57.0	5.4	21.0	0.0	0.0
02/03/01	58.0	5.2	22.0	0.0	0.0
02/04/01	57.0	5.1	21.0	0.0	0.0
02/05/01	52.0	5.0	21.0	0.0	0.0
02/06/01	53.0	5.2	22.0	0.0	0.0
02/07/01	51.0	4.6	22.0	0.0	0.0
02/08/01	49.0	4.4	21.0	0.0	0.0
02/09/01	48.0	4.6	20.0	0.0	0.0
02/10/01	49.0	4.5	20.0	0.0	0.0
02/11/01	45.0	4.4	20.0	0.0	0.0
02/12/01	44.0	4.2	20.0	0.0	0.0
02/13/01	42.0	4.2	21.0	0.0	0.0
02/14/01	41.0	4.0	20.0	0.0	0.0
02/15/01	38.0	4.5	19.0	0.0	0.0
02/16/01	35.0	4.1	19.0	0.0	0.0
02/17/01	37.0	4.0	18.0	0.0	0.0
02/18/01	36.0	3.7	16.0	0.0	0.0
02/19/01	32.0	3.5	15.0	0.0	0.0
02/20/01	28.0	3.5	16.0	0.0	0.0
02/21/01	27.0	3.8	15.0	0.0	0.0
02/22/01	27.0	3.7	16.0	0.0	0.0
02/23/01	26.0	3.5	20.0	0.0	0.0
02/24/01	26.0	3.5	17.0	0.0	0.0

DATE	Peace River	Horse Creek	Joshua Creek	Shell Creek	Facility
	at Arcadia (cfs) - Gage 02296750	at Aracadia (cfs) - Gage 02297310	at Nocatee (cfs) - Gage 02297100	at Punta Gorda (cfs) - Gage 02298202	
02/25/01	26.0	3.5	15.0	0.0	0.0
02/26/01	24.0	3.4	15.0	0.0	0.0
02/27/01	21.0	3.5	16.0	0.0	0.0
02/28/01	20.0	3.5	16.0	0.0	0.0
03/01/01	19.0	3.4	16.0	0.0	0.0
03/02/01	18.0	3.4	16.0	0.0	0.0
03/03/01	19.0	3.5	17.0	0.0	0.0
03/04/01	23.0	5.4	19.0	0.0	0.0
03/05/01	32.0	10.0	22.0	0.0	0.0
03/06/01	39.0	9.0	21.0	0.0	0.0
03/07/01	54.0	7.1	20.0	0.0	0.0
03/08/01	54.0	6.1	20.0	0.0	0.0
03/09/01	44.0	5.6	19.0	0.0	0.0
03/10/01	39.0	5.2	20.0	0.0	0.0
03/11/01	34.0	4.6	18.0	0.0	0.0
03/12/01	29.0	4.2	18.0	0.0	0.0
03/13/01	26.0	3.8	17.0	0.0	0.0
03/14/01	24.0	3.6	17.0	0.0	0.0
03/15/01	24.0	3.8	16.0	0.0	0.0
03/16/01	25.0	3.8	15.0	0.0	0.0
03/17/01	26.0	3.6	16.0	0.0	0.0
03/18/01	24.0	3.5	15.0	0.0	0.0
03/19/01	22.0	4.0	16.0	0.0	0.0
03/20/01	25.0	5.0	26.0	0.0	0.0
03/21/01	26.0	4.8	24.0	0.0	0.0
03/22/01	29.0	4.1	22.0	0.0	0.0
03/23/01	33.0	3.6	21.0	0.0	0.0
03/24/01	30.0	3.3	19.0	0.0	0.0
03/25/01	25.0	3.1	16.0	0.0	0.0
03/26/01	22.0	3.0	15.0	0.0	0.0
03/27/01	19.0	2.9	16.0	0.0	0.0
03/28/01	18.0	2.8	16.0	0.0	0.0
03/29/01	22.0	3.4	19.0	0.0	0.0
03/30/01	109.0	43.0	129.0	0.0	0.0
03/31/01	499.0	88.0	149.0	0.0	0.0
04/01/01	719.0	96.0	127.0	295.0	19.5
04/02/01	518.0	74.0	109.0	271.0	22.7
04/03/01	320.0	58.0	90.0	255.0	22.7
04/04/01	224.0	50.0	75.0	243.0	26.7
04/05/01	178.0	49.0	64.0	236.0	22.3
04/06/01	158.0	47.0	55.0	220.0	16.4
04/07/01	146.0	47.0	48.0	203.0	16.2
04/08/01	133.0	45.0	45.0	198.0	14.9
04/09/01	116.0	42.0	40.0	191.0	7.0
04/10/01	105.0	38.0	38.0	178.0	0.0
04/11/01	97.0	33.0	36.0	168.0	0.0
04/12/01	90.0	29.0	33.0	162.0	0.0
04/13/01	84.0	25.0	31.0	147.0	0.0
04/14/01	78.0	22.0	29.0	115.0	0.0
04/15/01	72.0	19.0	26.0	86.0	0.0
04/16/01	64.0	17.0	23.0	65.0	0.0
04/17/01	57.0	15.0	22.0	45.0	0.0
04/18/01	50.0	12.0	19.0	28.0	0.0
04/19/01	43.0	11.0	19.0	37.0	0.0

DATE	Peace River	Horse Creek	Joshua Creek	Shell Creek	Facility
	at Arcadia (cfs) - Gage 02296750	at Aracadia (cfs) - Gage 02297310	at Nocatee (cfs) - Gage 02297100	at Punta Gorda (cfs) - Gage 02298202	
04/20/01	38.0	9.0	20.0	44.0	0.0
04/21/01	35.0	7.9	19.0	47.0	0.0
04/22/01	34.0	6.9	18.0	51.0	0.0
04/23/01	31.0	5.9	16.0	51.0	0.0
04/24/01	30.0	5.0	18.0	48.0	0.0
04/25/01	29.0	4.4	16.0	50.0	0.0
04/26/01	28.0	4.0	15.0	49.0	0.0
04/27/01	26.0	3.6	14.0	43.0	0.0
04/28/01	24.0	3.2	14.0	39.0	0.0
04/29/01	23.0	2.9	13.0	36.0	0.0
04/30/01	24.0	2.6	14.0	35.0	0.0
05/01/01	25.0	2.3	14.0	36.0	0.0
05/02/01	24.0	2.1	13.0	36.0	0.0
05/03/01	22.0	1.9	12.0	35.0	0.0
05/04/01	22.0	1.7	11.0	52.0	0.0
05/05/01	25.0	1.5	9.7	46.0	0.0
05/06/01	37.0	1.3	9.2	39.0	0.0
05/07/01	44.0	1.1	8.9	26.0	0.0
05/08/01	34.0	0.7	9.2	13.0	0.0
05/09/01	25.0	0.8	9.2	5.0	0.0
05/10/01	21.0	0.8	7.8	1.0	0.0
05/11/01	19.0	0.7	7.8	0.2	0.0
05/12/01	18.0	0.7	8.8	0.0	0.0
05/13/01	17.0	0.8	7.8	0.0	0.0
05/14/01	14.0	0.6	6.9	0.0	0.0
05/15/01	12.0	0.7	7.4	0.0	0.0
05/16/01	11.0	0.6	7.4	0.0	0.0
05/17/01	8.4	0.7	7.3	0.0	0.0
05/18/01	7.8	0.7	7.7	0.0	0.0
05/19/01	7.4	0.8	7.6	0.0	0.0
05/20/01	7.2	0.6	6.6	0.0	0.0
05/21/01	7.3	0.4	6.0	0.0	0.0
05/22/01	14.0	0.5	13.0	0.0	0.0
05/23/01	61.0	0.9	15.0	0.0	0.0
05/24/01	254.0	0.7	13.0	0.0	0.0
05/25/01	174.0	0.5	11.0	0.0	0.0
05/26/01	106.0	0.3	11.0	0.0	0.0
05/27/01	78.0	0.2	11.0	0.0	0.0
05/28/01	63.0	0.2	17.0	0.0	0.0
05/29/01	57.0	0.3	17.0	0.0	0.0
05/30/01	57.0	0.2	16.0	0.1	0.0
05/31/01	56.0	0.3	14.0	9.1	0.0
06/01/01	74.0	0.4	16.0	32.0	0.0
06/02/01	73.0	0.9	16.0	113.0	0.0
06/03/01	78.0	4.6	15.0	201.0	0.0
06/04/01	83.0	3.6	16.0	207.0	0.0
06/05/01	75.0	2.4	15.0	228.0	0.0
06/06/01	91.0	2.7	14.0	292.0	0.0
06/07/01	121.0	4.4	20.0	266.0	0.0
06/08/01	153.0	6.0	34.0	199.0	0.0
06/09/01	139.0	14.0	39.0	244.0	11.7
06/10/01	227.0	16.0	43.0	231.0	18.9
06/11/01	256.0	15.0	31.0	216.0	26.6
06/12/01	205.0	12.0	23.0	207.0	23.7

DATE	Peace River	Horse Creek	Joshua Creek	Shell Creek	Facility
	at Arcadia (cfs) - Gage 02296750	at Aracadia (cfs) - Gage 02297310	at Nocatee (cfs) - Gage 02297100	at Punta Gorda (cfs) - Gage 02298202	
06/13/01	170.0	9.6	21.0	186.0	26.7
06/14/01	151.0	8.6	71.0	142.0	26.4
06/15/01	146.0	6.9	38.0	141.0	24.7
06/16/01	172.0	6.5	26.0	117.0	24.5
06/17/01	180.0	7.1	21.0	82.0	26.4
06/18/01	177.0	20.0	16.0	49.0	26.2
06/19/01	307.0	22.0	20.0	66.0	24.0
06/20/01	569.0	22.0	20.0	145.0	21.5
06/21/01	646.0	17.0	17.0	137.0	21.7
06/22/01	661.0	16.0	22.0	164.0	21.9
06/23/01	615.0	21.0	48.0	238.0	22.3
06/24/01	699.0	29.0	74.0	241.0	22.3
06/25/01	886.0	32.0	52.0	242.0	25.5
06/26/01	891.0	28.0	39.0	247.0	26.7
06/27/01	845.0	29.0	42.0	237.0	26.7
06/28/01	755.0	47.0	43.0	214.0	26.2
06/29/01	703.0	79.0	40.0	227.0	26.7
06/30/01	679.0	71.0	39.0	247.0	26.7
07/01/01	666.0	63.0	37.0	239.0	26.7
07/02/01	716.0	61.0	35.0	221.0	26.7
07/03/01	769.0	64.0	29.0	237.0	26.7
07/04/01	721.0	67.0	26.0	204.0	26.7
07/05/01	616.0	70.0	28.0	169.0	26.7
07/06/01	531.0	70.0	24.0	175.0	26.7
07/07/01	544.0	71.0	21.0	166.0	26.7
07/08/01	565.0	68.0	20.0	179.0	26.7
07/09/01	571.0	69.0	26.0	181.0	25.4
07/10/01	597.0	72.0	35.0	246.0	26.7
07/11/01	892.0	122.0	118.0	453.0	23.4
07/12/01	1330.0	196.0	151.0	719.0	16.4
07/13/01	1409.0	278.0	214.0	894.0	16.5
07/14/01	1370.0	412.0	289.0	964.0	16.6
07/15/01	1750.0	729.0	387.0	980.0	16.4
07/16/01	2060.0	774.0	341.0	990.0	9.2
07/17/01	2030.0	824.0	231.0	1000.0	0.0
07/18/01	2000.0	936.0	174.0	1050.0	0.0
07/19/01	2360.0	970.0	231.0	746.0	0.0
07/20/01	2690.0	1010.0	229.0	838.0	0.0
07/21/01	2650.0	1180.0	219.0	588.0	0.0
07/22/01	2560.0	1520.0	347.0	500.0	0.0
07/23/01	2810.0	1750.0	698.0	460.0	0.0
07/24/01	3410.0	2080.0	1120.0	440.0	0.0
07/25/01	3810.0	2030.0	1000.0	1739.0	10.1
07/26/01	3980.0	1920.0	945.0	3730.0	10.5
07/27/01	3630.0	1500.0	972.0	3350.0	6.1
07/28/01	3050.0	1300.0	676.0	2819.0	0.0
07/29/01	2450.0	1019.0	474.0	2300.0	0.0
07/30/01	2030.0	863.0	351.0	1920.0	0.0
07/31/01	1670.0	743.0	260.0	1760.0	0.0
08/01/01	1429.0	735.0	196.0	1650.0	0.0
08/02/01	1370.0	678.0	164.0	1580.0	0.0
08/03/01	1409.0	726.0	223.0	1660.0	0.0
08/04/01	1590.0	729.0	252.0	1810.0	0.0
08/05/01	1800.0	678.0	359.0	2110.0	10.4

DATE	Peace River at Arcadia (cfs) - Gage 02296750	Horse Creek at Aracadia (cfs) - Gage 02297310	Joshua Creek at Nocatee (cfs) - Gage 02297100	Shell Creek at Punta Gorda (cfs) - Gage 02298202	Facility Withdrawals (cfs)
08/06/01	2070.0	695.0	359.0	2120.0	14.1
08/07/01	2700.0	829.0	533.0	2100.0	13.5
08/08/01	3510.0	898.0	486.0	2270.0	13.6
08/09/01	3810.0	839.0	400.0	1970.0	12.8
08/10/01	3580.0	809.0	380.0	1650.0	13.5
08/11/01	3280.0	851.0	400.0	1630.0	13.4
08/12/01	3020.0	925.0	424.0	1940.0	13.4
08/13/01	2760.0	971.0	296.0	1850.0	0.0
08/14/01	2440.0	1030.0	228.0	1520.0	0.0
08/15/01	2080.0	922.0	181.0	1280.0	0.0
08/16/01	1760.0	842.0	141.0	1080.0	0.0
08/17/01	1480.0	747.0	115.0	954.0	0.0
08/18/01	1180.0	652.0	96.0	840.0	0.0
08/19/01	992.0	542.0	78.0	721.0	0.0
08/20/01	1060.0	457.0	106.0	610.0	0.0
08/21/01	1150.0	430.0	218.0	550.0	0.0
08/22/01	1210.0	369.0	200.0	581.0	0.0
08/23/01	1310.0	361.0	180.0	634.0	22.9
08/24/01	1090.0	332.0	164.0	643.0	13.8
08/25/01	817.0	277.0	130.0	622.0	13.7
08/26/01	639.0	237.0	100.0	580.0	12.9
08/27/01	521.0	206.0	62.0	534.0	22.4
08/28/01	434.0	179.0	50.0	469.0	26.7
08/29/01	367.0	154.0	41.0	460.0	26.7
08/30/01	320.0	130.0	35.0	444.0	26.7
08/31/01	463.0	152.0	40.0	408.0	26.7
09/01/01	380.0	137.0	42.0	404.0	26.7
09/02/01	393.0	177.0	40.0	416.0	26.7
09/03/01	445.0	206.0	39.0	364.0	26.7
09/04/01	439.0	213.0	39.0	419.0	26.7
09/05/01	956.0	375.0	45.0	381.0	26.7
09/06/01	1590.0	435.0	129.0	373.0	26.7
09/07/01	2210.0	530.0	300.0	613.0	26.7
09/08/01	2670.0	726.0	478.0	815.0	26.7
09/09/01	3340.0	916.0	550.0	1590.0	14.3
09/10/01	3960.0	1050.0	600.0	1260.0	21.6
09/11/01	4670.0	1120.0	700.0	1250.0	26.7
09/12/01	5160.0	1770.0	740.0	2170.0	9.2
09/13/01	6040.0	2460.0	729.0	2300.0	0.0
09/14/01	10100.0	4410.0	2130.0	4470.0	1.9
09/15/01	16400.0	6150.0	3050.0	5810.0	1.2
09/16/01	20700.0	6520.0	2620.0	5070.0	0.0
09/17/01	20300.0	5490.0	2180.0	4150.0	0.0
09/18/01	17800.0	4320.0	1700.0	3500.0	0.0
09/19/01	15000.0	3360.0	1470.0	3150.0	0.0
09/20/01	12700.0	2600.0	1170.0	2859.0	0.0
09/21/01	11000.0	1980.0	948.0	2600.0	0.0
09/22/01	9650.0	1419.0	761.0	2390.0	0.0
09/23/01	8169.0	1040.0	673.0	2170.0	0.0
09/24/01	6760.0	854.0	527.0	1900.0	0.0
09/25/01	5800.0	756.0	476.0	1820.0	0.0
09/26/01	5040.0	698.0	423.0	1650.0	0.0
09/27/01	4370.0	621.0	353.0	1520.0	0.0
09/28/01	3870.0	576.0	329.0	1500.0	0.0
09/29/01	3520.0	545.0	343.0	1670.0	0.0

DATE	Peace River at Arcadia (cfs) - Gage 02296750	Horse Creek at Aracadia (cfs) - Gage 02297310	Joshua Creek at Nocatee (cfs) - Gage 02297100	Shell Creek at Punta Gorda (cfs) - Gage 02298202	Facility Withdrawals (cfs)
09/30/01	3280.0	506.0	326.0	1760.0	0.0
10/01/01	3100.0	450.0	266.0	1610.0	0.0
10/02/01	2910.0	400.0	219.0	1440.0	22.0
10/03/01	2640.0	339.0	181.0	1250.0	0.7
10/04/01	2330.0	300.0	149.0	1060.0	18.9
10/05/01	2030.0	280.0	123.0	883.0	26.7
10/06/01	1739.0	260.0	107.0	746.0	26.7
10/07/01	1480.0	230.0	88.0	670.0	26.7
10/08/01	1300.0	200.0	85.0	620.0	26.7
10/09/01	1150.0	170.0	80.0	576.0	25.2
10/10/01	1040.0	140.0	73.0	506.0	24.8
10/11/01	956.0	130.0	65.0	478.0	26.7
10/12/01	888.0	126.0	57.0	452.0	25.1
10/13/01	811.0	111.0	52.0	437.0	26.4
10/14/01	738.0	98.0	48.0	421.0	26.7
10/15/01	674.0	89.0	45.0	398.0	26.7
10/16/01	630.0	81.0	44.0	394.0	26.7
10/17/01	596.0	74.0	42.0	376.0	26.7
10/18/01	556.0	68.0	36.0	347.0	26.7
10/19/01	527.0	62.0	34.0	353.0	26.7
10/20/01	502.0	58.0	36.0	428.0	26.7
10/21/01	497.0	74.0	31.0	402.0	26.7
10/22/01	537.0	125.0	72.0	484.0	26.7
10/23/01	618.0	107.0	124.0	680.0	26.7
10/24/01	642.0	108.0	113.0	727.0	25.8
10/25/01	634.0	105.0	84.0	651.0	20.7
10/26/01	654.0	107.0	78.0	606.0	19.9
10/27/01	656.0	115.0	67.0	671.0	26.7
10/28/01	631.0	104.0	53.0	696.0	26.7
10/29/01	608.0	90.0	49.0	659.0	26.7
10/30/01	580.0	80.0	44.0	540.0	26.7
10/31/01	541.0	73.0	41.0	444.0	17.2
11/01/01	503.0	68.0	41.0	386.0	15.0
11/02/01	466.0	63.0	38.0	349.0	15.5
11/03/01	428.0	58.0	36.0	318.0	15.5
11/04/01	399.0	54.0	33.0	294.0	15.6
11/05/01	381.0	53.0	39.0	290.0	15.9
11/06/01	357.0	48.0	36.0	293.0	16.4
11/07/01	335.0	44.0	33.0	278.0	15.7
11/08/01	314.0	41.0	31.0	265.0	16.4
11/09/01	295.0	40.0	29.0	258.0	15.7
11/10/01	280.0	37.0	27.0	253.0	17.1
11/11/01	267.0	35.0	25.0	247.0	16.4
11/12/01	252.0	33.0	27.0	244.0	16.5
11/13/01	235.0	31.0	31.0	237.0	13.8
11/14/01	222.0	30.0	31.0	240.0	15.8
11/15/01	214.0	29.0	31.0	243.0	15.6
11/16/01	209.0	28.0	30.0	244.0	16.1
11/17/01	201.0	27.0	29.0	230.0	15.0
11/18/01	191.0	26.0	30.0	211.0	15.3
11/19/01	182.0	25.0	28.0	203.0	11.3
11/20/01	176.0	24.0	27.0	202.0	15.7
11/21/01	171.0	23.0	26.0	198.0	15.3
11/22/01	165.0	23.0	25.0	195.0	15.7

DATE	Peace River at Arcadia (cfs) - Gage 02296750	Horse Creek at Aracadia (cfs) - Gage 02297310	Joshua Creek at Nocatee (cfs) - Gage 02297100	Shell Creek at Punta Gorda (cfs) - Gage 02298202	Facility Withdrawals (cfs)
11/23/01	160.0	22.0	24.0	191.0	15.5
11/24/01	156.0	21.0	23.0	178.0	15.3
11/25/01	151.0	20.0	23.0	170.0	15.3
11/26/01	145.0	19.0	21.0	163.0	15.6
11/27/01	139.0	19.0	20.0	159.0	15.8
11/28/01	134.0	18.0	18.0	151.0	5.4
11/29/01	130.0	18.0	15.0	147.0	0.0
11/30/01	126.0	18.0	15.0	143.0	0.0
12/01/01	122.0	17.0	14.0	145.0	10.9
12/02/01	119.0	17.0	14.0	141.0	5.9
12/03/01	116.0	16.0	14.0	135.0	3.9
12/04/01	113.0	16.0	15.0	133.0	0.0
12/05/01	111.0	16.0	15.0	120.0	0.0
12/06/01	109.0	16.0	13.0	108.0	0.0
12/07/01	109.0	16.0	12.0	113.0	0.0
12/08/01	117.0	18.0	11.0	140.0	0.0
12/09/01	118.0	22.0	15.0	167.0	1.0
12/10/01	126.0	40.0	12.0	205.0	1.9
12/11/01	130.0	38.0	12.0	225.0	11.0
12/12/01	122.0	32.0	15.0	186.0	8.0
12/13/01	120.0	26.0	14.0	117.0	0.0
12/14/01	129.0	24.0	14.0	115.0	0.0
12/15/01	115.0	23.0	13.0	139.0	0.0
12/16/01	106.0	22.0	12.0	125.0	0.0
12/17/01	101.0	20.0	12.0	114.0	0.0
12/18/01	98.0	18.0	13.0	119.0	0.0
12/19/01	94.0	17.0	14.0	110.0	0.0
12/20/01	92.0	15.0	13.0	98.0	0.0
12/21/01	89.0	14.0	13.0	100.0	0.0
12/22/01	86.0	14.0	13.0	96.0	0.0
12/23/01	83.0	13.0	13.0	110.0	0.0
12/24/01	81.0	13.0	13.0	137.0	0.0
12/25/01	79.0	12.0	13.0	147.0	0.0
12/26/01	79.0	13.0	13.0	157.0	0.0
12/27/01	79.0	12.0	13.0	149.0	0.0
12/28/01	83.0	12.0	15.0	148.0	0.0
12/29/01	86.0	12.0	14.0	170.0	0.0
12/30/01	85.0	11.0	13.0	179.0	0.0
12/31/01	82.0	11.0	12.0	196.0	0.0



Back to Start

APPENDIX I

USGS Daily Gage Data:

- **Water Level**
- **Conductivity**
- **Temperature**

Note: The following pages provide daily minimum and maximum values - click on each of the above topics for complete data.

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE FL LAKE SOURCE AGENCY USGS
 LATITUDE 264312 LONGITUDE 0821530 DATUM STATE 12 COUNTY 071

PROVISIONAL DATA

SUBJECT TO REVISION

GAGE HEIGHT, FEET, CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	.23	-.79	.72	-.43	.95	-.29	.81	-.65	1.12	-1.14	1.15	-.07
2	.17	-.98	.45	-.68	1.14	-.34	.98	-.85	1.14	-.46	1.45	-.22
3	.37	-.88	.64	-1.27	1.54	-.39	1.31	-.91	.93	-.35	1.27	-.48
4	.44	-.56	.83	-1.27	1.45	-.31	1.34	-.61	.89	-.56	1.43	-.60
5	1.25	-.74	.63	-1.41	.67	-.99	1.39	-.43	1.03	-.36	1.40	-.81
6	1.21	-.58	1.02	-1.40	.93	-1.39	1.17	-.41	1.18	-.55	1.36	-.93
7	1.61	-.84	1.07	-1.43	1.01	-1.34	1.13	-.36	1.38	-.56	1.43	-.88
8	1.67	-.88	1.07	-1.49	1.35	-1.03	1.05	-.42	1.30	-.75	1.23	-.88
9	1.52	-1.39	1.01	-1.36	1.56	-.64	1.18	-.51	1.53	-.58	1.28	-.70
10	1.17	-1.34	.92	-1.18	1.65	-.24	1.18	-.55	1.68	-.47	1.25	-.55
11	1.35	-1.29	.62	-1.00	1.24	-.40	1.59	-.35	1.55	-.42	1.29	-.35
12	1.30	-.97	.51	-.62	1.13	-.21	1.33	-.38	1.39	-.41	1.06	-.29
13	.89	-1.23	.55	-.63	1.39	-.44	1.35	-.48	1.34	-.44	.89	-.18
14	.87	-.76	.58	-.63	1.09	-.33	1.26	-.45	.98	-.43	.80	-.20
15	.56	-.45	.73	-.69	1.37	-.26	1.09	-.30	1.03	-.34	.85	-.14
16	.81	-.26	.81	-.78	1.23	-.23	1.00	-.40	.93	-.11	.88	-.32
17	.85	-.37	1.05	-.99	.88	-.42	.77	-.41	.94	-.10	.89	-.60
18	1.12	-.58	.50	-1.25	1.08	-.80	.26	-.89	.95	.01	1.12	-.87
19	1.29	-.50	1.31	-1.41	1.28	-.57	.74	-1.07	1.00	-.22	1.20	-1.00
20	.80	-.49	1.13	-.85	1.04	.03	1.04	-.68	1.26	-.24	1.32	-1.04
21	.32	-1.40	1.20	-.72	.92	-.33	.92	-.25	1.65	-.19	1.53	-1.09
22	.29	-1.43	1.22	-.69	.64	-.85	.80	-.47	1.72	-.34	1.71	-.95
23	.37	-1.43	1.24	-.61	.79	-.71	1.09	-.52	1.89	-.47	1.89	-1.05
24	.69	-1.36	1.09	-.67	.92	-.53	1.16	-.69	1.75	-.65	1.49	-.94
25	.71	-1.40	1.13	-.38	.95	-.44	1.28	-.76	1.81	-.69	1.25	-.83
26	.49	-1.40	1.03	-.34	.84	-.60	1.02	-1.32	1.82	-.67	1.31	-.83
27	.55	-1.12	.54	-.46	.59	-.76	.89	-1.12	1.72	-.61	.82	-.76
28	.70	-.87	.88	-.39	.98	-.51	1.46	-.82	1.50	-.44	.91	-.40
29	.67	-.56	---	---	1.72	-.41	1.04	-1.15	1.33	-.42	1.04	-.06
30	.76	-.29	---	---	1.80	-.26	.81	-1.17	.90	-.37	1.24	-.14
31	.73	-.30	---	---	1.29	-.54	---	---	.92	-.33	---	---
MONTH	1.67	-1.43	1.31	-1.49	1.80	-1.39	1.59	-1.32	1.89	-1.14	1.89	-1.09

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE FL LAKE SOURCE AGENCY USGS
 LATITUDE 264312 LONGITUDE 0821530 DATUM STATE 12 COUNTY 071

PROVISIONAL DATA

SUBJECT TO REVISION

GAGE HEIGHT, FEET, CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.35	-.29	1.36	-.62	1.85	.04	1.06	.06	1.93	.02	1.86	-.65
2	1.53	-.34	1.88	-.02	1.75	.02	1.29	.20	2.00	.01	1.66	-.92
3	1.53	-.50	1.89	.05	1.74	.20	1.49	.28	2.07	.05	1.52	-.98
4	1.61	-.66	1.97	.11	1.59	.09	1.65	.33	1.86	-.42	1.44	-1.15
5	1.67	-.52	1.87	.06	1.52	.30	1.77	.38	2.03	-.22	1.28	-.90
6	1.59	-.59	1.47	-.19	1.28	.19	1.90	.33	1.83	-.10	1.19	-.70
7	1.59	-.50	1.13	-.04	1.59	.25	1.98	.17	1.65	-.20	1.11	-.40
8	1.54	-.42	1.17	.27	1.61	.34	1.30	-.20	1.76	.05	1.47	.17
9	1.50	-.39	1.16	.36	1.59	.14	1.08	-.63	1.58	-.06	1.17	.07
10	1.37	-.21	.99	.47	1.80	.07	1.26	-.26	1.36	.05	1.47	.03
11	1.26	.06	1.09	.25	1.54	-.64	1.85	.33	1.68	.53	1.59	-.37
12	1.11	.18	1.23	.06	1.53	-.21	2.09	.43	1.60	.25	1.63	-.60
13	1.03	.27	1.31	-.06	1.76	.09	2.45	.99	1.68	-.18	1.89	-.77
14	1.27	.23	1.46	-.20	3.57	.69	2.33	.66	1.64	-.27	1.79	-.59
15	1.36	-.15	1.73	-.26	2.10	-.15	1.89	.62	1.82	-.46	1.77	-.67
16	1.41	-.18	1.93	-.28	1.76	.19	1.71	.34	1.82	-.54	1.63	-.93
17	1.69	-.41	1.77	-.56	1.82	.31	1.49	-.40	1.43	-1.13	1.69	-.51
18	1.71	-.65	1.97	-.34	1.93	.44	1.26	-.79	1.67	-.92	1.75	-.37
19	1.87	-.77	2.21	-.05	1.85	.65	1.94	-.33	1.75	-.37	1.51	-.26
20	1.75	-.80	1.92	-.06	2.03	.64	2.06	.08	1.75	.04	1.24	-.69
21	2.01	-.41	1.61	-.04	2.25	.64	1.85	.07	1.81	.02	.74	-.62
22	2.65	.68	1.41	.41	1.87	.38	1.82	.19	1.51	.20	.93	-.19
23	2.59	.28	1.50	.37	1.81	.35	2.09	.51	1.35	.27	1.71	.34
24	1.68	.05	1.38	.13	1.82	.51	1.96	.59	1.43	.53	1.15	.45
25	1.26	.12	1.37	.01	1.97	.35	1.76	.38	1.26	.30	1.25	-.05
26	1.07	.19	1.46	-.15	1.45	.02	1.37	-.20	1.21	.33	.88	-.36
27	1.17	.05	1.38	-.15	1.56	.27	.60	-.54	1.49	-.07	1.82	-.69
28	.99	-.28	1.39	-.30	1.87	.75	.67	-.12	1.74	-.25	2.24	-.45
29	1.05	-.43	1.55	-.07	1.70	.18	.96	-.12	1.78	-.17	2.07	-.08
30	1.19	-.39	1.67	.01	1.14	.26	1.21	-.16	1.86	-.44	1.76	-.74
31	1.26	-.48	1.67	-.03	---	---	1.57	-.06	---	---	1.69	-.89
MONTH	2.65	-.80	2.21	-.62	3.57	-.64	2.45	-.79	2.07	-1.13	2.24	-1.15
YEAR	3.57	-1.49										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA SUBJECT TO REVISION

GAGE HEIGHT, FEET, CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	.40	-1.07	1.03	-.57	1.40	-.49	1.04	-.57	1.05	-1.30	1.67	-.14
2	.19	-1.22	.28	-.81	1.56	-.32	1.13	-1.05	1.20	-.72	1.85	-.12
3	.65	-1.26	.60	-1.59	1.90	-.44	1.56	-.93	1.18	-.59	1.72	-.49
4	.62	-.82	.91	-1.35	1.75	.17	1.48	-.66	.74	-.85	1.82	-.58
5	1.61	-.96	.90	-1.45	1.23	-1.01	1.52	-.64	.98	-.67	1.91	-.71
6	1.60	-.68	.98	-1.56	1.11	-1.28	1.57	-.52	1.20	-.76	1.76	-.89
7	1.79	-.92	1.21	-1.38	1.16	-1.35	1.41	-.44	1.39	-.84	1.82	-.90
8	1.89	-.60	1.21	-1.41	1.19	-1.03	1.49	-.45	1.08	-.94	1.63	-.85
9	1.95	-1.21	1.13	-1.24	1.58	-.57	1.67	-.53	1.52	-.94	1.70	-.85
10	.67	-1.98	1.19	-1.06	1.98	-.24	1.67	-.53	1.84	-.71	1.75	-.76
11	1.47	-1.10	.88	-1.01	1.44	-.47	2.02	-.52	1.62	-.57	1.78	-.67
12	1.63	-.74	.87	-.80	1.71	-.47	1.80	-.35	1.68	-.57	1.37	-.34
13	1.02	-1.23	.91	-.83	1.86	-.11	1.80	-.49	1.67	-.51	1.26	-.28
14	1.03	-.86	.99	-.85	1.55	-.38	1.69	-.58	1.26	-.61	1.11	-.35
15	.93	-.67	1.08	-.89	1.81	-.43	1.42	-.52	1.38	-.54	1.18	-.25
16	1.16	-.51	1.16	-.95	1.59	-.22	1.29	-.38	1.37	-.18	1.26	-.41
17	1.22	-.62	1.26	-.99	1.18	-.49	1.08	-.66	1.40	-.21	1.22	-.60
18	1.41	-.80	.94	-1.63	.74	-1.03	.68	-1.44	1.35	-.17	1.47	-.79
19	1.64	-.67	1.38	-1.78	1.44	-.94	.71	-1.42	1.39	-.11	1.51	-1.01
20	1.63	-.50	1.38	-.99	1.51	.18	.97	-.80	1.59	-.22	1.63	-.99
21	.25	-1.93	1.42	-.78	1.66	.02	1.14	-.47	1.97	-.16	1.89	-.96
22	.38	-1.73	1.46	-.67	1.16	-.81	.94	-.73	2.07	-.20	1.95	-.96
23	.51	-1.49	1.52	-.71	.82	-.84	1.36	-.56	2.15	-.32	1.99	-.83
24	.59	-1.41	1.19	-.77	1.15	-.69	1.51	-.60	2.13	-.45	1.90	-.85
25	1.01	-1.42	1.35	-.42	1.27	-.41	1.71	-.65	2.23	-.59	1.66	-.83
26	.50	-1.48	1.28	-.45	1.25	-.68	1.14	-1.13	2.20	-.50	1.52	-.80
27	.73	-1.18	1.04	-.60	1.00	-.82	1.11	-1.62	2.09	-.47	.70	-.90
28	.90	-1.03	1.30	-.37	1.33	-1.04	1.61	-1.16	1.68	-.49	1.25	-.60
29	1.04	-.66	---	---	2.23	-.61	.64	-.98	1.65	-.49	1.33	-.23
30	1.18	-.15	---	---	2.35	-.32	.72	-1.37	1.16	-.42	1.59	-.24
31	1.10	-.07	---	---	1.79	-.21	---	---	1.33	-.47	---	---
MONTH	1.95	-1.98	1.52	-1.78	2.35	-1.35	2.02	-1.62	2.23	-1.30	1.99	-1.01

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA SUBJECT TO REVISION

GAGE HEIGHT, FEET, CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	1.68	-.25	---	---	2.15	-.04	1.51	-.48	1.72	-.52	2.07	-.71
2	1.84	-.31	---	---	2.19	-.07	1.75	-.29	2.05	-.58	1.85	-1.00
3	1.85	-.55	---	---	2.08	.04	1.84	-.19	2.10	-.47	1.74	-1.02
4	1.96	-.62	---	---	2.09	.00	1.98	-.17	1.87	-.99	1.49	-1.27
5	2.08	-.55	---	---	2.02	.05	2.10	-.03	1.91	-.69	1.31	-1.23
6	2.03	-.60	---	---	1.77	-.01	2.30	.06	1.68	-.53	1.17	-1.09
7	1.86	-.60	---	---	1.77	.18	2.36	-.12	1.55	-.54	1.27	-.76
8	1.88	-.57	---	---	1.95	.33	1.48	-.71	1.79	-.33	1.76	.07
9	1.66	-.49	---	---	2.10	.43	.90	-1.58	1.68	-.36	1.72	-.05
10	2.05	-.36	---	---	2.19	.17	1.30	-.83	1.65	-.27	1.72	-.21
11	1.51	-.08	---	---	1.65	.02	1.94	-.26	1.99	.24	1.76	-.49
12	---	---	---	---	2.06	.10	2.30	.03	1.83	-.12	1.80	-.68
13	---	---	---	---	2.18	.13	2.70	.72	1.83	-.43	1.93	-.80
14	---	---	---	---	5.64	.61	2.74	.63	1.82	-.46	2.16	-.56
15	---	---	2.14	-.27	2.50	.63	2.23	.14	1.91	-.44	2.05	-.68
16	---	---	2.40	-.30	2.36	.82	2.02	-.05	2.06	-.67	1.66	-.98
17	---	---	2.23	-.49	2.51	.90	1.65	-.97	1.46	-1.27	1.87	-.60
18	---	---	2.46	-.30	2.68	.88	.99	-1.21	1.56	-1.20	2.20	-.44
19	---	---	2.68	-.21	2.55	.96	1.95	-.82	1.86	-.67	1.63	-.32
20	---	---	2.44	-.23	2.66	.95	2.19	-.40	1.85	-.28	1.55	-.86
21	---	---	2.09	-.12	2.79	.79	1.93	-.38	1.86	-.28	.60	-.95
22	---	---	2.01	-.15	2.37	.38	2.00	-.20	1.54	-.08	1.20	-.45
23	---	---	1.79	.00	2.12	.25	2.18	.17	1.55	.10	1.96	.07
24	---	---	1.74	-.16	2.19	.55	2.18	.55	1.70	.31	1.96	.27
25	---	---	1.79	-.33	2.31	.29	2.01	.15	1.70	-.06	1.41	-.38
26	---	---	1.52	-.49	1.55	-.22	1.68	-.66	1.51	-.05	1.34	-.62
27	---	---	1.53	-.57	1.89	-.04	.54	-.90	1.65	-.35	2.00	-.79
28	---	---	1.61	-.66	2.30	.47	.51	-.79	1.80	-.48	2.31	-.43
29	---	---	1.83	-.41	1.85	-.41	.72	-.63	1.94	-.38	2.56	.07
30	---	---	1.93	-.30	1.28	-.16	.97	-.58	2.06	-.51	2.21	-.64
31	---	---	2.25	-.15	---	---	1.30	-.50	---	---	1.98	-.78
MONTH	2.08	-.62	2.68	-.66	5.64	-.41	2.74	-1.58	2.10	-1.27	2.56	-1.27
YEAR	5.64	-1.98										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Below Surface) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	27900	21000	31800	18400	38400	26800	24900	15200	33500	20600	40500	31400
2	27900	20600	26700	18800	37900	26300	18800	10400	34300	23600	41800	30800
3	30600	20100	26100	18100	42100	26700	26100	8820	34300	25100	40400	29800
4	28500	23000	30100	19400	40900	31500	24000	8810	31000	24400	41600	29900
5	36200	20700	31200	20900	37700	24600	25100	9080	33500	25900	42000	29800
6	36600	23900	30600	19700	36400	23800	24000	9430	34500	26100	41200	29400
7	34600	21800	32100	20300	37100	25100	23900	9800	35700	27000	40400	26900
8	36600	24600	32800	20600	37400	25500	24300	10100	33500	25900	37600	26600
9	36400	21100	31900	20900	39100	28100	26500	9850	35700	24900	37500	24000
10	28500	16800	31900	21800	41500	28100	26200	9280	39200	27000	38400	23300
11	33900	20400	31300	21100	38200	28100	29900	9600	37500	28400	38000	22600
12	32200	22000	31800	22600	39300	27500	27600	11400	38000	27200	32200	23400
13	30700	18500	32700	21400	40500	29300	28200	9420	40100	28900	29500	20100
14	31100	19500	33700	22800	38500	26200	26500	9000	38000	27800	30100	18700
15	29800	20100	34900	21400	38400	25900	23500	10500	38700	27100	28600	19400
16	31600	20200	34000	20300	37300	26900	22600	10000	38200	29900	29700	20100
17	32700	19900	35000	20300	34300	23800	22100	12100	38700	31000	29000	20900
18	32900	18900	31600	21200	31500	22400	17900	14300	38600	31900	31200	21300
19	34500	21200	36400	20700	35500	23000	22700	12700	38800	32500	31100	19300
20	34800	21700	37200	24600	35400	29100	25200	15100	40300	33100	33400	18000
21	25700	16600	37500	25300	36300	29200	27000	16900	42600	34200	36700	17500
22	27400	18200	37000	26700	34400	25200	25700	17300	43500	34200	34300	16000
23	28800	19800	38100	26600	32700	24800	29700	18200	43600	34200	32900	14700
24	29000	19200	36400	26300	34300	25500	31900	18200	43500	33700	31000	10500
25	29300	19500	37000	27700	34900	27100	34500	18400	44000	32700	24900	9570
26	28000	16300	37200	29000	34800	27100	30100	18900	44300	32500	21300	8110
27	28200	18600	37000	27400	34100	25200	30700	15400	42900	32000	14600	6880
28	30000	18700	37800	29300	34700	24700	34500	18300	41100	29800	18400	8480
29	32400	21600	---	---	41500	26400	26800	20000	40900	27600	21600	13000
30	32700	23200	---	---	35400	23400	30900	18400	38300	29700	21500	13100
31	31200	21500	---	---	30700	20500	---	---	38900	27900	---	---
MONTH	36600	16300	38100	18100	42100	20500	34500	8810	44300	20600	42000	6880

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Below Surface) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	23100	12300	---	---	11600	1120	403	266	13500	833	28000	9550
2	27600	11500	---	---	10000	731	355	275	14900	1200	25600	9000
3	24700	9550	---	---	6210	730	334	274	15800	1210	22700	9420
4	25700	8580	---	---	4830	645	396	283	13000	973	24000	9030
5	31500	7920	---	---	3890	536	410	296	10500	1390	20800	10600
6	28800	8020	---	---	937	563	434	304	7870	1460	21200	11800
7	27400	7400	---	---	841	426	441	319	16800	2380	24500	12500
8	27900	8170	---	---	714	309	448	322	18200	5850	26500	17500
9	23900	8420	---	---	615	290	727	329	19400	8230	26200	15500
10	25500	7740	---	---	716	276	1110	397	19300	6870	23900	12600
11	15300	6630	---	---	806	254	5390	458	20800	10500	23900	10800
12	10200	4430	---	---	725	229	8330	444	18900	6550	23700	9510
13	---	---	---	---	665	202	11000	635	20300	5520	24500	9140
14	---	---	632	304	7980	169	9600	686	20800	5680	28600	10800
15	---	---	675	305	649	152	5170	575	21300	7480	26300	9620
16	---	---	676	336	312	133	4240	500	20800	6000	22500	8670
17	---	---	754	345	243	125	2580	479	15000	4170	27500	10400
18	---	---	1280	380	245	122	2060	501	20700	4590	30000	12300
19	---	---	4340	386	198	122	10100	875	22100	6700	25300	13000
20	---	---	2680	428	190	124	12000	839	21600	10500	22200	10100
21	---	---	1160	433	194	128	6720	872	22700	9800	18100	9640
22	---	---	716	414	209	141	8600	621	21100	10500	23000	13000
23	---	---	601	414	231	157	6860	935	21700	13700	27300	15300
24	---	---	615	393	253	172	8160	1170	21700	13800	27700	18600
25	---	---	697	392	295	187	5940	686	22300	13000	22400	14300
26	---	---	668	417	355	204	2750	499	21000	11800	20500	15300
27	---	---	3630	470	295	219	1370	476	22600	10900	29000	14400
28	---	---	5910	987	338	231	4430	608	23500	10700	31600	16100
29	---	---	12800	1050	526	245	4320	1080	25600	11400	32400	19000
30	---	---	13300	1100	483	259	5340	793	27600	10200	29100	14400
31	---	---	15100	1280	---	---	7410	697	---	---	28100	14000
MONTH	31500	4430	15100	304	11600	122	12000	266	27600	833	32400	8670
YEAR	44300	122										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Above Bottom) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	27800	21200	32200	17500	---	---	24800	14700	34400	21200	41000	29000
2	27300	20500	27300	18100	---	---	18800	9880	35400	24200	42400	30300
3	29200	20100	25300	17200	---	---	25700	8150	35400	25800	40100	26400
4	29100	22900	30400	18800	---	---	24000	8290	32400	25100	41700	29500
5	35600	20600	31900	20800	---	---	25000	8720	34600	26600	42000	29400
6	35700	23900	31700	18900	---	---	23500	8990	35600	26800	41500	28800
7	33900	21600	33200	21000	---	---	23400	9040	37000	27900	40900	26500
8	36100	24300	33900	21400	---	---	23700	9510	34700	26700	38000	26100
9	36000	20700	33000	21700	---	---	26100	9080	39200	25600	37500	23300
10	28100	16400	33000	22600	---	---	25800	8760	42100	28600	38400	23100
11	32900	20100	32300	21900	---	---	29800	9130	40300	30300	36900	23000
12	32100	21600	33000	23300	---	---	27900	10700	41800	29100	33000	22600
13	30100	17000	33800	20500	---	---	28100	9280	41400	29600	33200	20700
14	30100	18800	35300	23700	---	---	27700	8860	39100	28400	31200	19300
15	28800	19300	36000	22200	38700	33800	24200	10800	39800	27700	30900	20100
16	30400	19600	35200	21100	37800	27100	23100	10100	39100	30500	31800	21300
17	31100	19000	36200	21000	34500	24200	22700	12500	39600	31700	31800	21600
18	31400	17900	32600	21100	31700	22400	18800	9710	39400	32500	32200	21900
19	32600	20100	37200	21100	34800	22700	23700	13100	39700	33000	32100	19900
20	32900	20400	38400	24700	34800	28700	25900	15500	41100	33600	34700	18400
21	23800	15500	38000	25600	35400	28300	27700	17300	43700	35000	37900	18000
22	25700	16400	---	---	33600	24700	27100	17800	44700	34900	35100	16400
23	26300	18000	---	---	31900	24000	30500	18700	44800	34900	33700	15000
24	27100	17500	---	---	33500	24600	32900	18700	44900	34700	31800	10600
25	29500	18500	---	---	34400	26400	35600	19000	45300	33000	25400	9740
26	27100	15600	---	---	34700	26400	31200	19500	45500	33300	23400	8190
27	27500	18100	---	---	34200	24900	31600	15900	43900	32500	19400	6990
28	28700	18500	---	---	34900	24800	35600	18800	41800	29100	24700	8610
29	31900	21000	---	---	42000	26500	28500	20600	41500	26300	26400	13300
30	32200	22700	---	---	35200	23200	31300	19000	39000	29800	30100	13300
31	30600	21900	---	---	30200	20400	---	---	39500	26800	---	---
MONTH	36100	15500	38400	17200	42000	20400	35600	8150	45500	21200	42400	6990

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Above Bottom) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	27800	12600	---	---	13200	1240	399	263	13300	832	28200	9490
2	31300	11800	---	---	11200	861	353	271	14900	1210	25700	9010
3	29800	9630	---	---	6990	762	329	274	15600	1210	26500	9380
4	29800	8110	---	---	5290	686	389	278	12700	1050	25500	9060
5	32100	7680	---	---	4520	557	402	296	11700	1380	20800	10600
6	29600	7880	---	---	937	559	399	302	7820	1460	22200	11700
7	28400	7480	---	---	842	429	461	315	16800	2400	24600	12400
8	28900	8240	---	---	711	312	445	321	20900	5740	27900	17400
9	25100	8560	---	---	571	296	715	329	20600	8220	27900	15800
10	26200	7950	---	---	708	276	1080	393	19900	6810	25200	13000
11	16000	6570	---	---	786	244	5520	453	22100	10600	25700	10800
12	11300	4410	---	---	718	230	8350	440	19600	6380	26500	9500
13	---	---	---	---	653	203	10800	623	20700	5570	27500	9140
14	---	---	653	315	9760	171	9640	653	21300	5580	29600	10800
15	---	---	693	320	622	149	5240	581	22300	7470	28600	9610
16	---	---	696	348	306	131	4430	490	22200	5880	24800	8640
17	---	---	803	358	235	122	2830	487	18300	4120	27500	10300
18	---	---	1240	395	232	117	1970	502	21800	4500	30100	12300
19	---	---	4410	410	191	110	10200	873	25900	6650	24200	13000
20	---	---	2740	444	174	118	12000	845	26200	10400	23400	10100
21	---	---	1190	450	185	122	9270	867	23900	9910	18300	9630
22	---	---	729	433	202	134	12600	615	23800	11100	23200	13000
23	---	---	615	437	224	150	14200	894	23900	13900	29500	15300
24	---	---	625	406	246	160	9550	1210	24300	14100	29400	18700
25	---	---	709	405	284	177	7850	713	24300	13000	23000	14200
26	---	---	676	428	349	194	2920	570	23300	11800	23000	15400
27	---	---	3630	479	283	216	1370	484	25400	11000	29300	14400
28	---	---	5820	993	334	228	4400	619	26300	10700	31800	16100
29	---	---	13800	1060	516	243	4320	1080	27300	11400	33200	19200
30	---	---	13400	1130	486	254	5190	801	27800	10200	30200	14400
31	---	---	15500	1300	---	---	7360	707	---	---	29900	14000
MONTH	32100	4410	15500	315	13200	110	14200	263	27800	832	33200	8640
YEAR	45500	110										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Below Surface) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	14.9	10.6	21.8	19.0	26.9	24.7	25.3	22.2	24.6	21.0	30.6	28.8
2	15.4	12.0	23.1	20.2	26.6	24.4	24.6	21.7	25.5	22.2	30.7	28.1
3	15.2	11.4	21.6	18.5	25.8	24.6	24.5	21.9	24.6	22.7	31.3	29.1
4	13.9	12.2	20.8	18.5	25.4	24.3	25.6	23.0	25.5	21.4	31.0	29.0
5	13.5	10.8	20.6	18.9	24.4	21.7	27.1	23.8	26.1	22.5	30.4	28.7
6	14.1	12.5	20.5	15.8	22.1	18.8	26.9	24.2	26.0	22.9	29.4	28.3
7	14.9	12.5	20.4	17.6	20.7	17.4	26.9	24.4	25.3	22.5	29.4	27.8
8	16.3	14.4	21.1	18.7	21.2	17.6	28.1	25.5	25.1	23.2	30.2	28.1
9	16.3	14.0	21.7	19.4	21.5	18.8	28.5	26.3	24.8	22.6	31.2	28.5
10	15.6	11.3	23.2	20.9	22.3	20.0	29.1	26.3	24.7	22.7	31.0	29.0
11	16.1	13.5	24.3	21.8	23.6	20.4	28.0	26.0	25.1	23.1	31.1	29.3
12	17.3	14.8	24.8	22.5	24.9	21.6	28.7	26.5	26.3	23.3	32.2	29.6
13	18.1	14.2	24.7	22.2	24.6	23.4	28.3	26.9	27.2	24.0	33.6	29.9
14	18.5	15.1	24.9	22.7	25.7	23.6	28.7	27.5	27.2	24.7	32.8	29.2
15	18.8	16.3	24.6	22.9	25.7	24.1	29.1	27.3	27.3	25.3	32.9	29.1
16	20.3	17.0	24.5	23.2	25.5	24.4	28.8	27.3	28.1	25.8	31.6	28.7
17	21.4	18.2	25.0	23.2	26.7	24.6	27.8	25.6	28.5	26.1	32.9	29.3
18	20.7	19.1	24.4	20.8	26.1	23.8	26.2	20.4	29.0	26.6	31.6	28.8
19	21.9	19.9	23.0	18.0	24.4	23.0	24.9	18.5	29.8	26.6	30.0	28.4
20	21.7	18.8	23.1	21.0	23.7	22.9	25.0	20.9	29.8	27.0	31.1	28.0
21	19.4	12.9	23.5	22.3	23.0	21.0	25.5	21.9	29.7	27.7	29.8	27.6
22	17.4	13.4	24.7	22.0	22.3	18.8	26.4	22.4	30.3	28.3	29.1	27.4
23	15.8	12.3	24.7	23.0	22.6	19.6	25.9	23.4	30.2	28.9	28.1	26.3
24	16.1	12.4	25.4	22.9	23.6	20.2	26.9	24.2	30.2	28.5	28.8	26.5
25	16.7	13.9	25.5	23.8	24.3	21.8	27.1	25.2	30.2	28.2	30.2	27.5
26	16.5	12.5	26.8	24.5	23.9	22.4	27.1	23.5	29.9	28.3	31.4	27.7
27	16.2	14.2	27.4	24.5	24.1	20.3	24.9	21.3	29.3	28.3	30.0	27.4
28	16.8	14.8	26.9	25.1	23.0	20.4	24.4	22.6	29.5	28.0	30.2	27.3
29	18.2	15.6	---	---	23.2	21.8	23.7	21.9	29.9	27.5	29.7	27.6
30	19.8	16.9	---	---	22.1	21.3	23.3	20.7	31.6	28.4	30.3	27.7
31	21.4	18.0	---	---	23.7	21.6	---	---	31.7	28.9	---	---
MONTH	21.9	10.6	27.4	15.8	26.9	17.4	29.1	18.5	31.7	21.0	33.6	26.3

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Below Surface) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	31.0	27.6	---	---	31.3	29.4	26.4	23.0	22.9	21.0	24.5	22.9
2	31.4	28.0	---	---	31.2	29.3	26.9	22.9	24.0	22.2	24.9	23.2
3	32.1	28.9	---	---	31.9	29.4	26.6	23.8	25.0	23.1	24.7	23.1
4	31.4	28.8	---	---	31.5	29.6	26.9	24.6	24.7	23.1	25.8	22.8
5	30.9	28.8	---	---	31.8	28.8	27.7	25.0	23.4	21.9	25.4	22.3
6	31.8	29.3	---	---	31.7	29.2	28.2	26.1	23.4	20.4	24.8	22.4
7	32.6	29.4	---	---	32.0	29.1	29.4	26.7	25.4	21.0	25.3	22.9
8	31.7	29.8	---	---	30.6	28.6	29.6	26.4	25.0	21.9	25.8	23.3
9	30.4	29.0	---	---	29.6	27.2	28.6	25.3	24.8	21.6	26.4	23.8
10	31.0	28.6	---	---	28.8	26.9	27.4	25.0	24.2	21.5	25.3	24.1
11	29.7	28.1	---	---	29.3	26.6	27.3	25.3	23.8	21.5	26.1	23.8
12	29.5	28.5	---	---	28.3	26.4	26.8	25.3	23.9	21.8	25.7	24.2
13	---	---	---	---	26.4	25.4	27.1	25.3	23.6	20.9	25.8	23.8
14	---	---	31.1	29.4	25.5	24.3	27.4	25.8	23.2	21.7	26.4	24.7
15	---	---	31.0	28.8	26.3	24.2	28.3	26.5	22.4	21.5	26.2	25.0
16	---	---	32.0	29.3	27.0	24.2	28.0	26.4	22.7	20.7	26.3	24.7
17	---	---	32.1	29.8	27.4	24.4	27.1	24.2	23.8	20.4	26.4	24.8
18	---	---	32.1	29.7	27.4	24.9	25.0	22.0	24.7	21.6	25.8	23.9
19	---	---	31.6	29.6	27.6	25.5	26.2	23.1	24.3	22.0	25.3	22.6
20	---	---	31.4	29.0	27.6	25.7	27.3	24.8	25.7	22.4	24.5	21.5
21	---	---	31.3	29.3	28.7	26.3	27.3	25.5	25.4	22.7	22.1	18.0
22	---	---	31.6	29.0	30.4	26.7	27.7	25.4	25.8	22.6	21.3	19.1
23	---	---	32.5	29.4	29.9	26.6	28.3	25.6	25.1	22.8	21.1	19.0
24	---	---	33.1	29.8	29.5	27.0	29.0	26.0	25.3	23.0	22.1	20.1
25	---	---	33.8	30.2	29.9	27.3	29.6	27.0	25.8	23.4	20.5	18.5
26	---	---	33.1	29.9	28.7	27.1	27.7	24.7	25.4	23.3	18.5	16.6
27	---	---	32.2	29.7	27.1	26.1	25.1	20.0	24.8	22.8	17.5	14.4
28	---	---	32.9	29.8	26.1	25.5	22.4	17.6	24.3	22.4	17.3	15.4
29	---	---	32.7	30.0	27.1	24.6	21.8	18.4	24.1	22.3	19.1	17.2
30	---	---	32.2	30.2	26.7	23.2	22.0	18.9	24.6	22.6	19.0	18.0
31	---	---	31.2	30.0	---	---	22.2	20.1	---	---	19.0	18.2
MONTH	32.6	27.6	33.8	28.8	32.0	23.2	29.6	17.6	25.8	20.4	26.4	14.4
YEAR	33.8	10.6										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Above Bottom) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	14.9	10.6	21.7	19.0	26.6	24.8	25.2	22.2	24.5	21.0	30.5	28.8
2	15.4	12.0	23.1	20.2	26.3	24.5	24.6	21.7	25.4	22.1	30.6	28.1
3	15.2	11.4	21.5	18.4	25.8	24.6	24.4	21.9	24.6	22.7	31.2	29.1
4	13.9	12.1	20.8	18.5	25.5	24.3	25.4	23.1	25.5	21.4	31.0	29.1
5	13.5	10.4	20.6	18.9	24.4	21.7	27.0	23.8	26.0	22.5	30.2	28.8
6	14.1	12.5	20.3	15.8	22.1	18.8	26.9	24.2	25.9	22.8	29.4	28.3
7	14.9	12.5	20.4	17.6	20.7	17.3	26.9	24.4	25.2	22.5	29.4	27.8
8	16.3	14.4	21.1	18.7	21.2	17.6	28.0	25.5	25.1	23.1	30.2	28.0
9	16.3	13.9	21.7	19.3	21.2	18.8	28.5	26.3	24.6	18.2	31.1	28.4
10	15.6	11.3	23.3	20.8	22.5	19.9	29.0	26.3	24.7	22.6	30.9	29.0
11	16.1	13.5	24.3	21.9	23.7	20.5	28.0	26.0	25.1	23.1	31.0	29.3
12	17.3	14.8	24.8	22.5	24.8	21.6	28.2	26.6	25.7	23.3	31.7	29.6
13	18.0	14.2	24.7	22.2	24.6	23.4	28.3	26.9	26.3	23.9	33.3	29.9
14	18.5	15.1	24.8	22.7	25.7	23.6	28.7	27.5	27.2	24.8	32.7	29.1
15	18.9	16.2	24.5	22.9	25.6	24.1	28.7	27.3	27.2	25.3	32.7	29.1
16	20.3	17.0	24.5	23.2	25.4	24.5	28.8	27.3	28.0	25.8	31.4	28.8
17	21.4	18.2	25.0	23.2	26.6	24.6	27.8	25.5	28.4	26.0	32.7	29.2
18	20.6	19.1	24.5	20.8	26.0	23.9	26.2	12.4	28.8	26.4	31.5	28.8
19	21.9	19.9	23.0	18.0	24.4	23.0	24.9	18.5	29.6	26.6	29.9	28.3
20	21.7	18.8	23.1	21.0	23.7	22.9	24.9	20.9	29.8	27.1	30.7	28.0
21	19.5	12.9	23.5	22.3	23.0	21.0	25.4	21.9	29.7	27.8	29.8	27.5
22	17.3	13.4	24.7	22.1	22.3	18.8	26.2	22.4	30.2	28.3	29.1	27.3
23	15.8	12.3	24.7	23.1	22.6	19.6	25.9	23.4	30.1	28.8	28.1	26.3
24	16.1	12.4	25.5	22.9	23.6	20.2	26.8	24.2	30.1	28.5	28.8	26.5
25	16.5	13.8	25.5	23.8	24.3	21.8	27.1	25.2	30.0	28.1	30.1	27.5
26	16.5	12.5	26.8	24.5	23.9	22.4	27.0	23.5	29.9	28.3	31.4	27.7
27	16.2	14.1	27.4	24.6	24.1	20.3	24.9	21.2	29.3	28.2	29.9	27.5
28	16.8	14.7	26.7	25.1	22.9	20.4	24.1	22.6	29.5	28.0	30.1	27.3
29	18.2	15.6	---	---	23.2	21.8	23.6	21.8	29.7	27.4	29.7	27.5
30	19.2	16.9	---	---	22.1	21.3	23.2	20.6	31.5	28.4	30.2	27.7
31	21.2	18.1	---	---	23.6	21.6	---	---	31.6	28.9	---	---
MONTH	21.9	10.4	27.4	15.8	26.6	17.3	29.0	12.4	31.6	18.2	33.3	26.3

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297460 PEACE RIVER AT HARBOUR HEIGHTS FL STREAM SOURCE AGENCY USGS
 LATITUDE 265914 LONGITUDE 0815940 DRAINAGE AREA DATUM STATE 12 COUNTY 015
 PROVISIONAL DATA (1 FT Above Bottom) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	30.9	27.6	---	---	31.0	29.4	26.3	22.9	22.9	21.0	24.5	22.9
2	31.1	28.0	---	---	31.2	29.3	26.8	22.9	24.0	22.2	25.1	23.2
3	31.9	28.9	---	---	31.7	29.4	26.6	23.8	25.0	23.1	24.8	23.2
4	31.0	29.2	---	---	31.5	29.5	26.8	24.6	24.6	23.0	25.7	22.8
5	30.9	28.8	---	---	31.5	28.8	27.7	25.0	23.5	21.8	25.3	22.3
6	31.8	29.3	---	---	31.5	29.1	28.3	26.0	23.4	20.4	24.7	22.4
7	32.5	29.4	---	---	30.9	29.1	29.3	26.7	25.3	20.9	25.3	23.0
8	31.7	29.7	---	---	30.3	28.5	29.6	26.4	24.9	22.0	25.7	23.3
9	30.3	29.0	---	---	29.3	27.2	28.5	25.3	24.7	21.8	26.3	23.8
10	31.0	28.6	---	---	28.7	26.9	27.4	25.0	24.1	21.7	25.2	24.1
11	29.7	28.1	---	---	29.3	26.5	27.2	25.3	23.7	21.7	25.8	23.8
12	29.2	28.2	---	---	28.2	26.3	26.8	25.3	23.6	21.7	25.6	24.2
13	---	---	---	---	26.3	25.4	27.0	25.3	23.5	20.9	25.8	23.8
14	---	---	30.8	29.2	25.5	24.2	27.3	25.8	23.0	21.7	26.4	24.7
15	---	---	31.0	28.8	26.2	24.2	28.3	26.5	22.5	21.5	26.4	25.0
16	---	---	32.0	29.3	26.9	24.1	28.0	26.3	22.6	20.7	26.4	24.7
17	---	---	31.9	29.8	27.0	24.3	27.1	24.2	23.7	20.4	26.3	24.7
18	---	---	32.1	29.7	27.3	24.9	25.1	21.9	24.7	21.6	25.8	23.7
19	---	---	31.6	29.6	27.5	25.4	26.2	23.1	24.4	22.1	25.2	22.6
20	---	---	31.4	29.0	27.5	25.7	27.3	24.8	25.8	23.1	24.6	21.4
21	---	---	31.3	29.2	28.5	26.2	27.2	25.5	25.5	22.8	22.1	18.0
22	---	---	31.6	28.9	29.8	26.7	27.6	25.4	25.8	22.7	21.3	19.1
23	---	---	32.3	29.4	29.7	26.6	28.6	25.7	25.1	23.0	21.0	19.0
24	---	---	33.0	29.8	29.3	27.0	28.8	26.2	25.3	23.0	22.1	20.1
25	---	---	33.7	30.1	29.8	27.2	29.5	27.1	25.8	23.5	20.7	18.7
26	---	---	33.1	29.9	28.7	27.1	27.7	24.8	25.3	23.3	19.0	16.5
27	---	---	32.2	29.7	27.1	26.0	25.1	20.0	24.8	22.8	17.8	14.3
28	---	---	32.9	29.8	26.1	25.5	22.4	17.5	24.3	22.3	17.3	15.4
29	---	---	32.6	30.0	27.0	24.6	21.8	18.4	24.0	22.3	18.8	17.2
30	---	---	32.1	30.2	26.7	23.2	22.0	18.8	24.6	22.6	19.0	18.0
31	---	---	31.3	30.0	---	---	22.2	20.1	---	---	19.4	18.2
MONTH	32.5	27.6	33.7	28.8	31.7	23.2	29.6	17.5	25.8	20.4	26.4	14.3
YEAR	33.7	10.4										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA SUBJECT TO REVISION

GAGE HEIGHT, FEET, CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	.35	-1.26	1.00	-.73	1.35	-.68	.94	-.69	.98	-1.50	1.61	-.34
2	.12	-1.40	.31	-.99	1.51	-.50	1.13	-1.09	1.07	-.92	1.77	-.31
3	.58	-1.47	.51	-1.76	1.86	-.61	1.51	-1.02	1.12	-.78	1.61	-.67
4	.56	-1.02	.78	-1.52	1.71	.01	1.51	-.79	.64	-1.05	1.73	-.75
5	1.50	-1.14	.84	-1.65	1.45	-1.24	1.48	-.76	.88	-.88	1.80	-.77
6	1.57	-.87	.75	-1.70	1.01	-1.54	1.50	-.63	1.10	-.95	1.75	-.85
7	1.53	-1.09	1.16	-1.51	1.12	-1.55	1.34	-.58	1.27	-.98	1.81	-1.06
8	1.83	-.70	1.16	-1.52	1.14	-1.20	1.44	-.57	.97	-1.04	1.58	-.99
9	1.85	-1.42	1.07	-1.35	1.48	-.72	1.57	-.59	1.42	-1.14	1.65	-1.01
10	.45	-2.08	1.13	-1.21	1.84	-.42	1.59	-.66	1.76	-.90	1.72	-.93
11	1.42	-1.23	.84	-1.18	1.37	-.47	1.93	-.65	1.56	-.76	1.77	-.84
12	1.57	-.87	.84	-.98	1.64	-.63	1.76	-.50	1.59	-.77	1.34	-.52
13	.97	-1.41	.89	-1.01	1.80	-.26	1.76	-.64	1.56	-.71	1.21	-.47
14	.96	-1.03	.94	-1.03	1.49	-.56	1.65	-.76	1.19	-.81	1.06	-.53
15	.90	-.84	1.05	-1.08	1.75	-.62	1.38	-.72	1.35	-.74	1.14	-.43
16	1.11	-.68	1.07	-1.15	1.56	-.41	1.22	-.56	1.33	-.38	1.22	-.60
17	1.18	-.79	1.17	-1.16	1.12	-.69	.95	-.85	1.35	-.42	1.16	-.77
18	1.37	-.99	.99	-1.84	.59	-1.23	.72	-1.69	1.29	-.38	1.42	-.97
19	1.56	-.81	1.23	-1.94	1.33	-1.12	.48	-1.61	1.32	-.32	1.46	-1.16
20	1.60	-.72	1.32	-1.13	1.39	-.02	.92	-.97	1.51	-.42	1.58	-1.09
21	.01	-2.10	1.37	-.94	1.58	-.19	1.08	-.66	1.84	-.33	1.81	-1.11
22	.29	-1.91	1.39	-.84	1.13	-1.04	.90	-.92	1.98	-.34	1.88	-1.04
23	.46	-1.75	1.45	-.90	.76	-1.04	1.29	-.76	1.98	-.35	1.91	-.91
24	.55	-1.60	1.12	-.90	1.11	-.85	1.42	-.73	2.04	-.48	1.82	-.94
25	.97	-1.65	1.28	-.57	1.21	-.60	1.60	-.76	2.13	-.71	1.63	-.91
26	.43	-1.62	1.22	-.58	1.17	-.69	1.04	-.97	2.10	-.62	1.38	-.88
27	.69	-1.36	.97	-.79	.93	-.96	1.05	-1.77	2.01	-.64	.69	-1.02
28	.84	-1.20	1.24	-.56	1.25	-1.22	1.54	-1.34	1.63	-.65	1.20	-.74
29	1.02	-.79	---	---	2.06	-.78	.56	-1.16	1.59	-.68	1.32	-.39
30	1.17	-.26	---	---	2.21	-.43	.67	-1.55	1.12	-.61	1.57	-.36
31	1.07	-.25	---	---	1.78	-.35	---	---	1.31	-.65	---	---
MONTH	1.85	-2.10	1.45	-1.94	2.21	-1.55	1.93	-1.77	2.13	-1.50	1.91	-1.16

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA SUBJECT TO REVISION

GAGE HEIGHT, FEET, CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	1.64	-.42	1.57	-.35	2.07	-.09	1.64	.59	1.64	-.61	1.98	-.83
2	1.81	-.46	1.58	-.35	2.10	-.05	1.82	.58	1.95	-.59	1.76	-1.13
3	1.78	-.68	2.26	-.10	2.01	-.06	1.88	.64	2.00	-.53	1.67	-1.14
4	1.91	-.73	2.49	.34	2.04	-.01	2.01	.61	1.77	-1.01	1.41	-1.40
5	2.03	-.73	2.49	.54	1.97	-.07	2.11	.58	1.78	-.82	1.23	-1.33
6	1.90	-.66	2.16	.69	1.74	.02	2.28	.59	1.57	-.67	1.06	-1.23
7	1.79	-.75	1.72	.39	1.75	.26	2.31	.28	1.46	-.69	1.20	-.91
8	1.82	-.72	1.84	.46	1.93	.55	1.48	-.40	1.70	-.47	1.68	-.07
9	1.59	-.64	1.82	.77	2.16	.99	.82	-1.05	1.61	-.50	1.70	-.20
10	2.12	-.53	1.74	.92	2.34	1.19	1.29	-.65	1.60	-.41	1.57	-.38
11	1.46	-.13	1.78	.86	1.99	1.27	1.88	-.18	1.89	.09	1.66	-.64
12	1.58	.07	1.81	.76	2.46	1.69	2.22	.09	1.73	-.27	1.73	-.80
13	1.63	.26	1.80	.62	2.71	2.05	2.55	.81	1.73	-.55	1.76	-.91
14	1.73	.37	2.01	.57	5.97	2.09	2.57	.82	1.71	-.59	2.06	-.64
15	1.62	.05	2.18	.47	5.13	4.09	2.12	.10	1.81	-.59	1.97	-.81
16	1.76	.25	2.40	.34	5.90	5.11	1.91	-.10	1.94	-.79	1.59	-1.13
17	2.25	.16	2.20	.06	5.99	5.86	1.56	-.94	1.39	-1.38	1.79	-.74
18	2.28	.13	2.43	.06	5.88	5.49	.91	-1.21	1.48	-1.30	---	---
19	2.32	.18	2.58	.10	5.49	4.95	1.71	-.85	1.77	-.82	---	---
20	2.21	.17	2.35	.15	4.96	4.36	2.06	-.43	1.76	-.47	---	---
21	2.81	.28	2.04	.13	4.39	3.77	1.84	-.45	1.77	-.47	---	---
22	3.69	1.09	1.97	.07	3.77	3.18	1.91	-.28	1.47	-.27	---	---
23	3.67	2.43	1.77	.12	3.28	2.73	2.11	.11	1.48	-.07	---	---
24	2.79	1.79	1.69	-.06	2.99	2.43	2.11	.47	1.58	.12	---	---
25	2.27	1.63	1.73	-.33	2.92	2.06	1.94	.06	1.64	-.24	---	---
26	2.26	1.69	1.42	-.53	2.34	1.54	1.61	-.73	1.46	-.23	---	---
27	2.28	1.69	1.47	-.65	2.30	1.44	.41	-.97	1.44	-.51	---	---
28	2.05	1.27	1.55	-.75	2.51	1.64	.38	-.85	1.66	-.60	---	---
29	1.80	.83	1.77	-.50	2.06	.88	.58	-.75	1.86	-.49	---	---
30	1.80	.48	1.88	-.43	1.55	.81	.92	-.71	1.96	-.61	---	---
31	1.79	.02	2.16	-.22	---	---	1.24	-.62	---	---	---	---
MONTH	3.69	-.75	2.58	-.75	5.99	-.09	2.57	-1.21	2.00	-1.38	2.06	-1.40
YEAR	5.99	-2.10										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT BELOW SURFACE) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	14.8	12.9	20.6	18.8	26.7	24.9	24.2	22.6	24.7	22.9	30.4	29.1
2	14.5	13.4	21.0	19.6	26.7	24.9	23.9	21.7	25.3	23.6	30.5	28.7
3	14.3	12.3	20.3	19.6	26.3	24.9	24.7	22.2	25.1	24.1	30.7	29.0
4	14.1	12.6	20.5	19.5	25.9	25.0	24.9	22.6	25.5	23.6	30.6	28.6
5	13.9	11.7	20.2	19.2	25.0	22.5	25.6	23.3	26.1	23.9	30.4	28.6
6	14.3	12.5	20.1	18.4	23.0	21.0	26.3	24.3	26.3	24.3	30.0	28.3
7	14.4	12.6	20.7	18.5	21.8	20.3	26.5	24.8	26.3	24.0	30.3	28.3
8	15.4	13.6	21.3	19.0	21.8	19.4	27.6	25.5	26.2	24.5	30.0	28.6
9	15.5	14.3	21.7	19.6	21.5	19.5	28.0	26.2	25.8	24.5	30.8	28.5
10	15.2	13.2	22.7	20.5	22.1	20.4	28.7	26.3	26.1	24.3	31.3	28.8
11	15.9	13.5	23.5	21.5	22.9	20.8	28.1	26.1	26.1	24.2	31.8	29.3
12	16.4	14.8	24.2	22.5	23.7	21.5	28.4	26.6	26.4	24.1	31.8	29.6
13	16.5	14.9	24.4	22.8	24.2	23.4	29.3	26.8	27.0	24.6	31.8	29.8
14	17.1	15.1	24.7	22.8	24.9	23.5	29.6	27.1	27.3	25.3	31.9	29.7
15	17.9	16.2	24.9	23.2	25.6	23.9	29.5	27.4	27.9	25.8	32.8	30.3
16	18.9	16.9	25.1	23.4	25.1	24.3	28.9	27.6	28.7	26.1	32.1	30.2
17	19.6	17.9	25.2	23.7	26.5	24.3	28.0	26.8	29.0	26.6	32.2	30.2
18	20.6	18.8	24.8	23.2	25.8	24.8	27.1	24.7	29.4	27.1	31.9	29.8
19	21.3	19.4	23.9	22.4	24.9	24.0	25.2	23.8	29.3	27.2	30.5	29.3
20	21.1	19.1	23.7	22.1	24.6	23.6	25.2	23.4	29.6	27.2	30.9	28.9
21	19.1	17.2	23.9	22.6	23.9	22.1	25.4	23.7	29.6	27.7	30.6	28.6
22	17.2	15.9	24.5	22.5	22.9	21.3	25.9	23.9	30.4	28.1	29.2	28.2
23	16.5	15.1	24.6	22.9	23.1	20.9	26.4	24.5	30.4	28.9	28.2	26.7
24	16.4	14.5	25.3	23.2	23.7	21.4	27.1	25.0	30.2	28.4	28.6	26.0
25	16.0	14.6	25.5	23.7	24.2	22.1	27.0	25.8	30.5	28.6	29.3	26.8
26	16.2	14.1	26.2	24.3	24.0	22.6	27.1	25.4	30.0	28.6	29.4	27.3
27	15.8	14.4	26.6	24.6	24.0	21.5	26.6	23.9	29.2	28.3	28.8	27.6
28	16.4	14.5	26.7	25.0	23.8	21.9	25.6	24.1	28.8	27.6	29.0	27.3
29	17.1	15.4	---	---	23.9	22.6	25.1	23.8	30.4	27.3	29.2	27.6
30	18.5	16.4	---	---	22.8	22.1	24.0	23.1	30.9	28.1	29.4	27.6
31	20.0	17.7	---	---	23.6	22.1	---	---	30.6	28.8	---	---
MONTH	21.3	11.7	26.7	18.4	26.7	19.4	29.6	21.7	30.9	22.9	32.8	26.0

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT BELOW SURFACE) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	30.2	27.6	28.3	27.4	30.7	29.0	25.1	24.1	23.0	21.1	23.6	22.4
2	30.7	28.0	27.4	25.8	30.5	28.7	24.6	23.4	24.1	22.0	23.8	22.5
3	31.1	28.9	25.8	25.5	30.4	28.3	24.7	23.4	24.7	22.9	23.6	22.6
4	31.0	29.1	26.2	25.2	30.9	28.7	25.0	23.8	23.9	23.1	23.7	22.6
5	30.8	29.2	27.6	25.5	31.1	28.7	25.8	24.3	23.1	22.5	23.2	22.6
6	30.8	29.2	27.6	26.1	29.2	28.1	26.2	25.2	22.9	21.7	23.3	22.6
7	31.7	29.2	27.3	26.3	28.8	27.4	26.6	25.8	22.6	21.6	23.7	22.9
8	30.8	29.4	27.8	26.5	27.7	26.8	26.9	26.1	22.6	21.8	24.2	23.2
9	29.4	28.7	27.7	26.9	26.8	26.2	26.6	25.6	22.4	21.4	24.5	23.4
10	29.9	28.1	28.1	26.8	26.7	26.1	26.4	25.2	22.6	21.1	24.7	23.6
11	28.1	27.1	28.2	27.1	26.8	26.1	26.7	25.6	22.3	20.9	24.8	23.6
12	27.6	26.9	28.5	27.0	26.4	26.0	26.4	25.4	22.3	21.0	25.2	23.9
13	27.3	26.7	28.9	27.5	26.1	25.5	26.6	25.2	22.4	20.9	24.9	23.8
14	26.9	26.4	29.1	28.0	25.5	24.7	26.8	25.7	22.2	21.3	25.3	24.2
15	27.1	26.0	29.4	28.3	24.7	24.4	28.0	26.2	21.8	21.4	25.6	24.4
16	27.4	26.2	30.0	28.6	24.6	24.1	28.1	26.4	22.2	20.9	25.4	24.5
17	27.2	26.5	30.3	28.8	25.1	24.4	26.6	25.1	22.9	21.1	25.4	24.5
18	27.8	26.5	32.8	29.0	25.7	25.0	25.1	23.8	23.3	21.8	---	---
19	27.8	26.5	30.8	29.0	26.1	25.6	25.5	23.5	23.4	22.2	---	---
20	27.8	26.9	31.2	28.9	26.5	26.0	25.9	24.4	23.4	22.5	23.1	21.8
21	27.3	26.4	29.8	28.9	27.1	26.4	25.8	25.1	23.2	22.5	21.8	19.6
22	26.8	26.1	30.1	28.2	27.4	26.8	25.9	25.2	23.2	22.4	20.7	19.6
23	26.4	25.6	29.8	28.4	27.5	26.7	25.7	25.3	23.2	22.4	20.7	19.4
24	26.2	25.3	29.7	28.7	27.7	27.0	26.6	25.5	23.5	22.4	20.8	19.8
25	26.5	25.6	30.2	28.7	27.9	27.1	27.7	26.5	23.8	22.5	20.4	18.7
26	26.9	25.8	30.2	29.3	27.5	26.8	27.0	25.0	23.6	22.6	18.8	17.1
27	27.3	26.4	30.2	29.2	26.8	25.9	25.0	22.6	23.6	22.5	17.3	16.3
28	28.1	26.9	30.9	29.3	25.9	25.4	22.6	20.8	23.3	22.4	17.3	16.1
29	28.5	27.2	31.4	29.4	---	---	21.7	20.2	23.4	22.4	18.5	17.2
30	29.0	27.9	31.9	29.3	---	---	22.4	20.2	23.7	22.4	18.7	17.5
31	29.1	28.2	30.3	29.4	---	---	22.1	20.8	---	---	18.4	18.0
MONTH	31.7	25.3	32.8	25.2	31.1	24.1	28.1	20.2	24.7	20.9	25.6	16.1
YEAR	32.8	11.7										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT ABOVE BOTTOM) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	14.9	13.3	20.6	18.8	26.8	24.9	24.1	22.7	24.7	22.9	30.4	29.1
2	14.6	13.5	21.0	19.7	26.6	25.0	23.9	21.7	25.4	23.6	30.6	28.8
3	14.3	12.4	20.4	19.6	26.4	24.9	24.6	22.1	25.1	24.1	30.7	29.0
4	14.2	12.7	20.5	19.5	25.9	25.0	25.0	22.6	25.5	23.6	30.7	28.7
5	13.8	11.7	20.3	19.3	25.0	22.6	25.7	23.3	26.2	24.0	30.5	28.7
6	14.4	12.6	20.2	18.4	23.0	21.1	26.3	24.3	26.3	24.3	30.0	28.4
7	14.4	12.6	20.8	18.6	21.9	20.3	26.6	24.9	26.2	24.1	30.3	28.4
8	15.4	13.7	21.4	19.1	21.8	19.6	27.7	25.6	26.3	24.6	30.0	28.6
9	15.6	14.3	21.7	19.7	21.5	19.6	28.1	26.3	25.8	24.5	30.6	28.5
10	15.2	13.3	22.7	20.6	22.1	20.6	28.7	26.4	26.2	24.3	31.4	28.8
11	16.0	13.7	23.6	21.6	22.9	20.8	28.1	26.2	26.1	24.2	31.9	29.4
12	16.5	14.8	24.3	22.5	23.7	21.6	28.5	26.7	26.4	24.1	31.8	29.6
13	16.5	15.0	24.5	22.8	24.2	23.4	29.2	26.8	27.0	24.6	31.8	29.9
14	17.2	15.2	24.8	22.9	24.9	23.5	29.4	27.1	27.3	25.3	31.8	29.7
15	17.9	16.2	25.0	23.2	25.6	24.0	29.4	27.4	27.9	25.8	32.7	30.4
16	18.9	16.9	25.1	23.4	25.2	24.3	28.9	27.7	28.8	26.2	32.1	30.2
17	19.7	18.0	25.2	23.8	26.4	24.4	28.0	26.8	29.0	26.6	32.1	30.2
18	20.7	18.8	24.8	23.3	26.0	24.5	27.1	24.8	29.4	27.2	31.6	29.9
19	21.4	19.4	23.9	22.4	25.0	24.0	25.3	23.9	29.3	27.3	30.6	29.3
20	21.1	19.1	23.7	22.3	24.7	23.7	25.2	23.5	29.6	27.3	30.9	29.0
21	19.1	17.2	23.9	22.7	24.0	22.2	25.5	23.7	29.6	27.8	30.5	28.7
22	17.2	16.0	24.5	22.6	23.0	21.4	26.0	24.0	30.4	28.2	29.2	28.2
23	16.5	15.1	24.7	23.0	23.2	21.0	26.5	24.5	30.4	29.0	28.2	26.6
24	16.4	14.6	25.3	23.3	23.8	21.6	27.1	25.1	30.2	28.4	28.5	26.1
25	16.1	14.7	25.5	23.7	24.2	22.2	27.0	25.8	30.5	28.6	29.2	26.8
26	16.2	14.2	26.3	24.3	24.1	22.7	27.2	25.5	30.0	28.6	29.5	27.4
27	15.8	14.5	26.7	24.6	24.2	21.7	26.6	23.9	29.3	28.3	28.9	27.6
28	16.5	14.6	26.7	25.1	23.9	22.0	25.6	24.1	28.8	27.6	28.9	27.4
29	17.1	15.5	---	---	23.9	22.6	25.1	23.8	30.3	27.4	29.0	27.7
30	18.6	16.5	---	---	22.9	22.1	24.1	23.2	30.9	28.2	29.2	27.7
31	20.0	17.8	---	---	23.6	22.1	---	---	30.6	28.9	---	---
MONTH	21.4	11.7	26.7	18.4	26.8	19.6	29.4	21.7	30.9	22.9	32.7	26.1

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT ABOVE BOTTOM) SUBJECT TO REVISION
 TEMPERATURE, WATER (DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	29.7	27.7	28.3	27.4	30.7	29.1	25.1	24.1	23.1	21.1	23.7	22.4
2	30.3	28.1	27.4	25.9	30.6	28.7	24.6	23.4	24.1	22.1	23.8	22.5
3	30.9	28.9	25.9	25.5	30.2	28.3	24.7	23.5	24.7	22.9	23.6	22.7
4	30.9	29.2	26.3	25.2	31.0	28.7	25.0	23.8	23.9	23.2	23.7	22.7
5	30.8	29.1	27.2	25.6	30.5	28.7	25.8	24.3	23.2	22.5	23.3	22.7
6	30.9	29.3	27.6	26.1	29.2	28.2	26.2	25.3	22.9	21.7	23.3	22.6
7	31.4	29.2	27.3	26.4	28.8	27.4	26.7	25.8	22.6	21.6	23.8	22.9
8	30.8	29.4	27.9	26.5	27.7	26.8	26.9	26.1	22.7	21.7	24.3	23.2
9	29.4	28.7	27.7	27.0	26.9	26.3	26.6	25.6	22.4	21.5	24.5	23.4
10	29.9	28.1	28.1	26.8	26.7	26.1	26.4	25.3	22.5	21.1	24.7	23.7
11	28.1	27.1	28.3	27.1	26.9	26.1	26.4	25.6	22.3	21.0	24.8	23.6
12	27.5	27.0	28.5	27.1	26.4	26.0	26.4	25.4	22.3	21.1	25.2	24.0
13	27.4	26.8	28.9	27.5	26.1	25.5	26.6	25.3	22.4	20.9	25.0	23.8
14	27.0	26.4	29.1	28.0	25.5	24.8	26.8	25.7	22.2	21.3	25.4	24.2
15	27.2	26.0	29.5	28.3	24.8	24.4	27.8	26.2	21.8	21.4	25.7	24.5
16	27.4	26.2	30.0	28.6	24.7	24.2	28.0	26.5	22.3	21.0	25.4	24.5
17	27.2	26.6	30.3	28.9	25.2	24.4	26.7	25.2	23.0	21.1	25.4	24.5
18	27.8	26.5	30.5	29.1	25.8	25.0	25.2	23.9	23.4	21.9	---	---
19	27.8	26.5	30.5	29.1	26.2	25.6	25.6	23.5	23.4	22.2	---	---
20	27.9	26.9	30.4	29.0	26.6	26.1	25.9	24.5	23.4	22.5	23.2	21.9
21	27.4	26.4	29.9	28.9	27.1	26.4	25.9	25.1	23.2	22.6	21.9	20.4
22	26.9	26.1	29.6	28.2	27.4	26.9	26.0	25.2	23.3	22.4	20.8	19.6
23	26.5	25.6	29.8	28.4	27.6	26.7	25.8	25.4	23.2	22.4	20.7	19.4
24	26.2	25.3	29.7	28.7	27.8	27.0	26.7	25.6	23.6	22.4	20.8	19.9
25	26.5	25.6	30.2	28.8	27.9	27.1	27.3	26.5	23.8	22.5	20.4	18.7
26	27.0	25.9	30.2	29.4	27.5	26.8	27.0	25.1	23.6	22.7	18.8	17.2
27	27.4	26.4	30.2	29.3	26.8	25.9	25.1	22.7	23.6	22.6	17.4	16.5
28	28.1	26.9	30.5	29.4	25.9	25.5	22.7	20.9	23.4	22.4	17.4	16.2
29	28.5	27.3	31.1	29.4	25.9	25.1	21.6	20.3	23.4	22.4	18.6	17.2
30	29.0	27.9	31.3	29.3	25.5	24.6	22.4	20.3	23.7	22.4	18.7	17.6
31	29.1	28.2	30.3	29.4	---	---	22.1	20.8	---	---	18.5	18.0
MONTH	31.4	25.3	31.3	25.2	31.0	24.2	28.0	20.3	24.7	20.9	25.7	16.2
YEAR	32.7	11.7										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT BELOW SURFACE) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	6690	1160	4610	920	12600	2400	1530	890	8980	1390	17400	4750
2	5200	980	2880	921	13000	2710	890	784	8900	1840	17700	5200
3	6670	908	3920	903	17000	2800	946	722	10300	2120	15500	3730
4	6540	1000	6370	936	14900	4880	1020	818	8190	1960	16700	3670
5	12000	957	6560	939	12600	2580	1000	848	10200	2490	16800	3490
6	12900	1350	6960	979	10100	2260	1110	881	11600	2600	16300	3480
7	10500	1230	9160	1220	11200	2070	1080	878	12500	2570	16500	3010
8	13200	1560	9130	1140	11400	2380	1140	876	10700	2660	10500	2450
9	12300	1260	8210	1140	12800	2750	1240	864	14100	2530	10100	1740
10	4040	551	8380	1270	15200	3280	1280	839	18200	3360	10000	1520
11	9080	1360	6850	1190	11200	3050	2000	826	16400	4460	9680	1270
12	9640	1430	6510	1250	13500	2690	1750	841	16700	4760	5610	1280
13	4840	1220	6810	1170	14100	3260	1920	833	17600	5270	5560	1250
14	4970	1330	7460	1130	12300	2870	1930	849	16200	5490	5150	1170
15	5070	1300	7860	1080	13800	2680	1670	839	18200	5980	5200	1110
16	5930	1290	8000	1060	12000	3200	1740	892	18600	7800	5920	1060
17	5920	1200	9750	1170	10700	2700	1610	892	19000	8220	6460	1060
18	6810	1120	9060	1040	8420	2490	1360	914	18600	8870	7560	1110
19	7960	1140	11200	1040	11800	1880	1360	912	19300	9730	6650	1060
20	8230	1170	12200	2020	13200	4580	2330	933	20700	10100	4880	947
21	2340	959	12600	2480	14200	4240	3200	999	23500	10900	5450	897
22	2800	951	12800	2680	10400	1780	2810	977	25100	11300	3430	782
23	4310	938	13100	2630	10000	2280	4340	971	24900	12100	2430	649
24	4810	937	10800	2350	11700	2290	5510	1030	25000	12100	1490	642
25	6810	483	11400	2630	12100	1660	7480	1050	25300	9220	873	689
26	3730	588	10900	2680	11500	1700	5060	1140	24600	6900	793	703
27	4960	594	10000	2440	10400	1950	5600	1040	21400	6020	711	650
28	5500	937	11800	2850	11600	2020	9810	1200	15600	5200	670	615
29	5870	1000	---	---	19000	2540	4820	1510	15400	4180	700	641
30	5920	1230	---	---	14600	3450	5800	1360	12600	4170	717	641
31	4630	1100	---	---	7260	1530	---	---	14600	3810	---	---
MONTH	13200	483	13100	903	19000	1530	9810	722	25300	1390	17700	615

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT BELOW SURFACE) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	779	686	307	297	457	415	243	242	398	390	1570	526
2	864	726	315	301	442	386	246	242	409	392	1160	541
3	900	720	334	313	407	379	265	244	416	403	1130	547
4	1060	707	351	334	403	384	256	250	425	409	829	552
5	1200	674	353	336	402	360	260	256	427	416	735	555
6	1060	644	349	331	360	266	267	260	435	420	693	558
7	1040	655	331	280	267	234	279	267	441	426	994	568
8	1050	664	286	251	242	224	291	278	444	432	1590	569
9	817	636	251	239	228	220	304	291	448	431	1840	563
10	869	585	244	235	221	205	314	304	446	431	864	552
11	596	552	252	244	205	191	321	312	470	434	940	551
12	614	540	258	251	191	185	327	320	451	438	922	552
13	594	526	266	256	185	167	335	326	476	443	1040	528
14	554	525	265	257	167	122	342	330	475	451	2510	557
15	539	473	270	257	122	102	354	339	496	457	2020	563
16	477	406	282	270	102	97	369	351	541	463	1040	571
17	406	363	291	274	99	92	381	368	494	472	1580	572
18	370	350	310	288	94	91	390	380	516	482	---	---
19	350	312	320	310	98	92	400	384	622	490	---	---
20	319	268	337	313	104	96	403	388	602	490	915	568
21	278	242	346	322	119	104	412	394	583	492	645	578
22	251	244	345	331	138	118	415	407	583	497	959	577
23	265	251	334	320	155	137	428	401	575	501	3250	589
24	267	259	328	302	172	155	444	421	559	506	3460	599
25	263	250	342	313	189	172	443	417	589	511	1230	588
26	254	249	370	342	201	189	429	418	586	513	1240	567
27	260	252	394	369	210	201	429	418	596	515	3400	587
28	270	260	412	392	222	209	427	401	655	517	5900	627
29	276	270	418	405	---	---	403	394	969	520	10700	825
30	287	276	427	407	---	---	397	391	1300	525	6440	657
31	297	287	448	422	---	---	394	389	---	---	5050	659
MONTH	1200	242	448	235	457	91	444	242	1300	390	10700	526
YEAR	25300	91										

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT ABOVE BOTTOM) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
1	7120	1210	4640	921	13200	2500	1590	922	8900	1380	18000	4960
2	5570	1020	2970	921	13700	2850	922	816	9010	1850	18400	5420
3	7110	949	3910	902	17700	2940	966	794	10400	2130	16200	3870
4	6940	1040	6440	934	15500	5250	1060	851	8260	1950	17400	3810
5	12600	993	6680	933	13100	2680	1040	882	10200	2480	17600	3630
6	13700	1390	7160	973	10500	2310	1170	917	11600	2620	17200	3650
7	11400	1260	9600	1140	11700	2320	1140	914	13000	2590	17500	3160
8	13800	1610	9490	1180	11900	2430	1210	913	11600	2680	11200	2580
9	13000	1310	8610	1240	13400	2840	1310	896	15300	2620	11300	1810
10	4210	1140	8860	1310	15700	3440	1370	873	18900	3480	11300	1590
11	9580	1400	7120	1230	11700	3110	2120	861	17000	4640	10300	1330
12	10100	1470	6770	1290	14100	2680	1870	880	17400	4940	6310	1330
13	5140	1250	7060	1210	14600	3360	2000	863	18300	5480	6010	1300
14	5200	1360	7760	1170	12800	3020	1990	877	16800	5700	5650	1210
15	5290	1330	8150	1120	14500	2830	1730	902	18900	6200	5540	1150
16	6170	1320	8320	1100	12700	3320	1780	915	19300	8080	6400	1100
17	6400	1210	10100	1220	11100	2800	1650	912	19600	8520	6790	1110
18	7000	1140	9670	1080	8900	2180	1380	911	19400	9300	8120	1130
19	8300	1160	11700	1080	12500	2220	1390	919	20000	10100	7000	1080
20	8750	1200	12700	2110	13900	5060	2560	975	21600	10500	5360	974
21	2370	976	13200	2580	14900	4430	3320	1000	24500	11400	5800	910
22	2840	964	13400	2810	11200	2520	2900	983	26000	11700	4690	798
23	4380	949	13800	2760	10400	2450	4500	980	25700	12500	2820	671
24	4880	949	11300	2470	12200	2510	5670	1040	25800	12500	1650	664
25	6910	929	12000	2760	12500	3230	7570	1060	25900	9520	918	704
26	3800	922	11500	2790	12100	3200	5100	1160	25400	7080	818	726
27	5110	943	10500	2550	10800	2680	5610	1050	22200	6220	741	672
28	5620	945	12400	2990	12100	2400	9740	1210	16100	5380	694	638
29	5990	1010	---	---	20400	3010	4770	1520	16100	4310	720	665
30	6040	1240	---	---	15100	3590	5800	1350	13200	4310	743	665
31	4700	1090	---	---	7820	1590	---	---	15100	3970	---	---
MONTH	13800	922	13800	902	20400	1590	9740	794	26000	1380	18400	638

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - TAMPA FLORIDA

STATION NUMBER 02297350 PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN FL STREAM SOURCE AGENCY USGS
 LATITUDE 270438 LONGITUDE 0820027 DRAINAGE AREA DATUM STATE 12 COUNTY 027
 PROVISIONAL DATA (1 FT ABOVE BOTTOM) SUBJECT TO REVISION
 SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY TO DECEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
1	806	711	321	310	477	432	254	252	414	406	1690	554
2	913	754	329	314	461	402	257	253	426	408	1230	561
3	955	745	349	327	425	394	262	255	433	419	1180	568
4	1110	727	366	348	420	400	267	261	442	426	874	573
5	1260	694	369	351	420	374	272	266	448	433	765	577
6	1120	665	364	345	374	277	279	271	452	436	724	580
7	1080	678	345	292	278	243	292	278	460	444	1070	590
8	1100	686	298	262	252	233	304	290	465	450	1820	591
9	854	659	262	249	237	228	317	304	467	448	1990	586
10	898	608	254	248	229	212	329	316	464	449	908	578
11	619	568	263	254	213	198	339	323	488	451	998	573
12	640	560	270	261	198	192	344	332	469	452	975	576
13	619	548	278	267	192	173	353	338	500	459	1140	571
14	577	548	277	268	173	126	357	342	498	470	2690	579
15	562	493	282	268	127	105	371	353	520	476	2160	590
16	497	424	294	281	105	99	386	366	569	482	1110	592
17	424	378	303	286	102	95	399	382	513	490	1680	594
18	385	364	323	300	98	93	408	396	537	502	---	---
19	365	324	335	323	104	95	417	400	647	510	---	---
20	332	279	352	327	109	100	421	406	627	511	995	591
21	289	252	360	335	124	109	431	410	609	512	672	596
22	263	254	361	345	143	124	434	425	605	517	1010	605
23	275	263	347	333	162	143	449	418	605	521	3620	612
24	279	270	341	315	179	162	465	440	587	526	3960	623
25	274	260	356	327	197	179	464	434	622	531	1310	611
26	264	259	386	356	210	197	446	436	611	533	1310	611
27	271	262	410	385	219	210	447	443	623	536	3540	617
28	282	271	429	408	232	219	445	418	682	538	6740	649
29	288	282	436	422	243	232	420	410	1040	540	11200	852
30	301	288	444	424	254	243	413	407	1470	547	6700	681
31	311	299	466	440	---	---	411	404	---	---	5250	681
MONTH	1260	252	466	248	477	93	465	252	1470	406	11200	554
YEAR	26000	93										