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Water quality in Chesapeake Bay : Virginia portion, water year 1993 : a report to the Virginia Department of Environmental Quality

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WATER QUALITY IN CHESAPEAKE BAY

BALTIMORE Virginia Portion

Water Year 1993

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WASHINGTON

39° 00'

Kevin Curling and Bruce Neilson

A Report to

Virginia Department of Environmental Quality

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June 1994

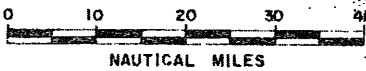
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RICHMOND

Data Report No. 52

School of Marine Science/Virginia Institute of Marine Science
The College of William & Mary in Virginia
Gloucester Point, VA 23062

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NAUTICAL MILES

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WATER QUALITY IN CHESAPEAKE BAY

Virginia Portion

Water Year 1993

Kevin Curling and Bruce Neilson

A Report to

Virginia Department of Environmental Quality

June 1994

Data Report No. 52

School of Marine Science/Virginia Institute of Marine Science
The College of William & Mary in Virginia
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Particulate Phosphorus	57
Total Dissolved Phosphorus	64
Ortho-phosphorus	71
Total Nitrogen	78
Particulate Nitrogen	85
Total Dissolved Nitrogen	92
Ammonia	99
Nitrate+Nitrite	106
Nitrite	113
Dissolved Silica	120
Dissolved Organic Carbon	127
Particulate Carbon	134
Total Suspended Solids	141
pH	148

INTRODUCTION

The Chesapeake Bay Water Quality Monitoring Program (WQMP) has three main objectives: (1) characterization of water quality conditions, (2) detection of temporal and spatial trends in water quality, and (3) creation of a data base that furthers our understanding of the processes that control water quality in the Chesapeake Bay system. The purpose of this report is to characterize water quality conditions in the Virginia portion of Chesapeake Bay during the 1993 water year, which runs from October 1992 through September 1993. These monitoring efforts have been conducted with funding from the US Environmental Protection Agency and the Commonwealth of Virginia.

DESCRIPTION OF MONITORING PROGRAM

Water quality is monitored at some fifty stations within Chesapeake Bay and at the confluence of a tributary and the main stem of the bay. Twenty-seven of those stations are located in Virginia (see Figure 1). Responsibility for sampling is shared between the Virginia Institute of Marine Science (VIMS) of the College of William & Mary and the Applied Marine Research Laboratory (AMRL) at Old Dominion University (ODU), as indicated in Table 1. Standard protocols are employed throughout the WQMP. VIMS' field procedures are described in the *Field Procedures Manual* (1989) and the *Instrument Calibration Manual* (1989). Similar documents are available for the other institutions.

Monitoring occurs once each month during the cooler months (October through March) and twice each month during the warmer months (April through September). The

Figure 1. Map of Monitoring Stations

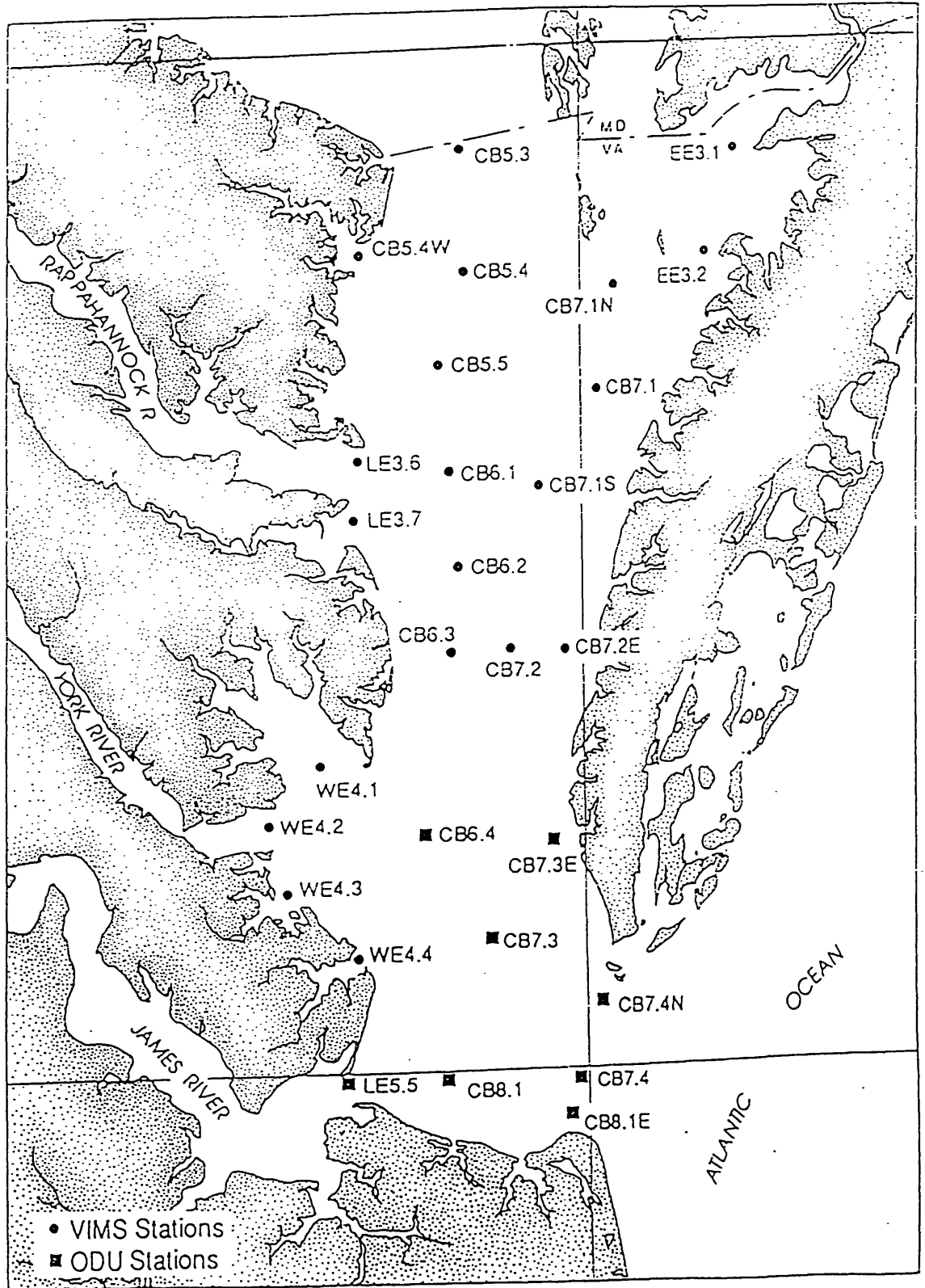


Table 1. Location of Chesapeake Bay Water Quality Monitoring Stations

Sampled by VIMS

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Depth</u> (M)	<u>Pycnocline</u>
CB5.4	37 48.0	76 10.5	33	*
CB5.5	37 41.5	76 11.4	20	*
CB6.1	37 35.3	76 9.8	13	*
CB6.2	37 29.2	76 9.4	11	*
CB6.3	37 24.7	76 9.6	12	*
EE3.1 **	37 54.5	75 47.5	4	
EE3.2 **	37 47.6	75 50.6	26	
CB7.1N	37 46.5	75 58.5	32	
CB7.1	37 41.0	75 59.4	25	
CB7.1S	37 34.9	76 3.5	16	
CB5.4W	37 48.8	76 17.7	5	
CB7.2	37 24.7	76 4.8	23	
CB7.2E	37 24.7	76 1.5	14	
LE3.6	37 35.8	76 17.1	10	
LE3.7	37 31.8	76 18.4	8	
WE4.1	37 18.7	76 20.8	6	
WE4.2	37 14.5	76 23.2	15	
WE4.3	37 10.6	76 22.4	6	
WE4.4	37 6.6	76 17.6	8	

Sampled by ODU

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Depth</u> (M)	<u>Pycnocline</u>
CB6.4	37 14.2	76 12.5	11	*
CB7.3	37 7.0	76 7.5	14	*
CB7.4	36 59.6	76 0.6	14	*
CB7.4N	37 3.5	75 58.4	13	
CB8.1E	36 56.7	76 1.5	18	
CB8.1	36 59.3	76 10.1	9	
CB7.3E	37 13.7	76 3.3	20	
LE5.5	36 59.8	76 18.2	21	

* Samples are collected 1 m below the surface and 1 m above the bottom at all stations; samples also are collected 1 m above and 1 m below the pycnocline at the designated stations.

** These stations are referred to as EE3.4 and EE3.5 in Chesapeake Bay Program reports.

institutions responsible for the monitoring program in both Virginia and Maryland attempt to collect all samples within a three-day window, typically Monday through Wednesday of the chosen week. No attempt is made to schedule the sampling for particular phases of the semi-diurnal tide or for times within the lunar month. Adverse weather is the primary reason for not meeting the established schedule. The sampling dates for water year 1993 are listed in Table 2.

Observations on sea state, weather conditions, water clarity and other notable features are recorded at each station. The physical setting is characterized using continuous profiling instruments. Water temperature, conductivity, dissolved oxygen (DO), pH and *in vivo* fluorescence measurements are recorded at one-meter intervals vertically through the water column, except at depths greater than 15 meters, when measurements are made at two-meter intervals. Light attenuation and secchi depth measurements are also made at each station. *In vivo* fluorescence measurements are recorded as the vessel moves from one station to another; water is taken from about 1 m depth.

Water samples are collected at 1 m below the surface and 1 m above the bottom at all stations. At the stations located along the deep trough of Chesapeake Bay (see Table 1), samples are also collected one meter above and one meter below the pycnocline, except when there is minimal density stratification. For the latter case, samples are collected at 1/3rd and 2/3rds of the water column depth.

Water samples are analyzed for a number of nutrient species (see Table 3) following standard analytical procedures (for details see *Laboratory Procedures Manual*, 1989).

Table 2. Date when each station was sampled during each month of the 1993 water year.

	Oct. 92	Nov. 92	Dec. 92	Jan. 93	Feb. 93	March 93
CB5.4	7	18	8	5	9	10
CB5.5	6	17	7	5	9	10
CB6.1	6	17	7	5	8	9
CB6.2	6	16	7	4	8	9
CB6.3	6	16	7	4	8	9
CB6.4	8	17	16	6	9	12
CB7.3	8	17	16	6	9	12
CB7.4	8	17	16	6	9	10
CB7.4N	8	17	16	6	9	10
CB8.1E	8	17	16	6	9	10
CB8.1	8	17	15	7	9	10
EE3.1	7	18	8	5	9	10
EE3.2	7	18	8	5	9	10
CB7.1N	7	18	8	4	9	9
CB7.1	7	18	8	4	8	9
CB7.1S	7	18	8	4	8	9
CB5.4W	6	17	8	5	9	10
CB7.2	8	16	9	4	8	9
CB7.2E	8	16	-	4	8	9
CB7.3E	8	17	16	6	9	12
LE3.6	7	17	9	5	9	10
LE3.7	7	17	9	5	9	10
WE4.1	6	16	9	5	9	10
WE4.2	6	16	7	4	8	9
WE4.3	8	19	7	4	8	9
WE4.4	8	19	7	4	9	9
LE5.5	9	18	15	7	10	12

Table 2 (cont). Date when each station was sampled during each month of the 1993 water year.

	April 93	May 93	June 93	July 93	Aug. 93	Sep. 93
CB5.4	13, 26	10, 24	14, 29	12, 27	9, 23	14, 28
CB5.5	13, 26	10, 24	15, 29	12, 27	9, 23	13, 28
CB6.1	12, 26	10, 24	15, 29	12, 26	9, 23	14, 28
CB6.2	12, 26	10, 24	15, 29	12, 26	9, 23	13, 28
CB6.3	12, 26	10, 24	15, 29	12, 26	9, 23	13, 28
CB6.4	14, 29	10, 27	15, 29	12, 27	9, 23	15, 29
CB7.3	14, 28	10, 27	15, 29	12, 28	9, 23	14, 29
CB7.4	14, 30	10, 27	15, 29	12, 27	10, 23	14, 29
CB7.4N	14, 30	10, 27	15, 29	12, 27	10, 23	14, 29
CB8.1E	14, 30	10, 27	15, 29	12, 27	10, 23	14, 29
CB8.1	14, 29	10, 27	15, 29	12, 27	9, 23	14, 29
EE3.1	13, 27	11, 25	14, 30	13, 27	10, 24	14, 29
EE3.2	13, 27	11, 25	14, 30	13, 27	10, 24	14, 29
CB7.1N	12, 27	11, 25	14, 30	13, 28	10, 23	14, 29
CB7.1	12, 27	11, 25	14, 30	13, 28	10, 24	14, 28
CB7.1S	12, 26	10, 24	14, 30	13, 26	9, 23	14, 28
CB5.4W	13, 26	10, 24	15, 29	12, 27	9, 23	14, 28
CB7.2	12, 26	10, 24	14, 30	13, 26	9, 23	13, 28
CB7.2E	12, 26	10, 24	14, 30	13, 26	9, 23	15, 28
CB7.3E	14, 29	10, 27	15, 29	12, 27	9, 23	15, 29
LE3.6	13, 27	11, 25	15, 29	12, 26	10, 24	13, 28
LE3.7	13, 27	11, 25	15, 29	12, 26	10, 24	13, 28
WE4.1	13, 27	11, 25	15, 30	13, 28	9, 23	15, 28
WE4.2	12, 26	10, 24	14, 29	12, 26	9, 23	13, 27
WE4.3	12, 26	10, 24	14, 29	12, 26	10, 24	13, 27
WE4.4	12, 26	10, 24	14, 29	12, 26	10, 24	13, 29
LE5.5	28	11, 27	15, 29	12, 28	9, 23	14, 29

Table 3. Water Quality Analyses

<i>Carbon</i>	Particulate carbon Dissolved organic carbon	
<i>Nitrogen</i>	Particulate nitrogen Total dissolved nitrogen Ammonia-nitrogen Nitrite-nitrogen Nitrate+Nitrite-nitrogen	
<i>Phosphorus</i>	Particulate phosphorus Total dissolved phosphorus Ortho-phosphorus	
<i>Silica</i>	Dissolved silicate	
<i>Chlorophyll-a</i> <i>Total suspended solids</i>		
<i>Dissolved oxygen and salinity</i>		(typically one sample per station as a check on <i>in situ</i> measurement systems)

RESULTS

The data for water year 1993 are presented in the appendices by water quality analysis. For each measure of water quality, maximum, minimum, and mean values for the year are reported for each station. These statistics are given for both the surface and bottom sampling points, and therefore illustrate not only the range of conditions occurring over the year, but also whether surface-to-bottom differences are large. Following the table are the graphs for each station. The data for both the surface and bottom sampling points have been plotted, with the exception of Secchi depth, for which there is only one measurement per station. The maximum and minimum values at the surface are presented as "whiskers", while maximum and minimum values at the bottom are shown as "boxes".

When there were two cruises during a given month, the data from the two cruises have been combined into a single monthly data set.

No results have been listed in the tables or plotted in the figures for the samples taken above and below the pycnocline. Individuals interested in values for the surface mixed layer or the bottom mixed layer should access the entire data base and examine the pycnocline results.

Perhaps the single most important measure of water quality is the dissolved oxygen (DO) concentration. For estuarine waters, state water quality standards specify that the daily average DO concentration should be 5.0 mg/l or greater, and that no observation should be below 4.0 mg/l. The portion of the DO measurements below 5 mg/l and below 4 mg/l have been calculated for each station and are included in the DO section.

In addition to those water quality parameters which are measured directly, several other parameters have been calculated. Salinity is determined using water temperature and conductivity observations and the UNESCO Equations of State (UNESCO, 1983). Total phosphorus and total nitrogen have been calculated by summing the values for the particulate and total dissolved fractions. Chlorophyll-a has been calculated using a trichromatic formula (ASTM, 19979; Method D 3731-79).

OTHER REPORTS AND OTHER MONITORING EFFORTS

The water quality monitoring in the Virginia portion of Chesapeake Bay is shared between the Applied Marine Research Lab (AMRL) and the Virginia Institute of Marine

Science (VIMS). During the first few years of the program, separate contract reports were prepared. Subsequently, VIMS began producing water quality data reports that covered the entire Virginia portion of Chesapeake Bay. These are listed below:

Water Year	VIMS Data Report No.
1985	36
1988	38
1989	35
1990	37
1991	49
1992	51

The data for the entire Chesapeake Bay Water Quality Monitoring Program (main stem and tributaries in Virginia and Maryland) from 1984 through 1991 is also available in graphical format on CD-ROM (Rennie and Neilson, 1994).

The scientists at ODU redirected their data analysis efforts to synthesizing water quality and living resource data (*c. f.* Alden *et al*, 1992) and to an examination of the power of the data set to detect temporal trends. For copies of these reports, contact the principal investigator, Dr. Raymond Alden at AMRL.

A comparable monitoring program is conducted in the major tributaries to Chesapeake Bay by the Virginia State Water Control Board (SWCB), now the water division of the Department of Environmental Quality (DEQ). The SWCB has issued tributary water quality characterization reports for 1984-85, 1986, 1987 and 1988. For copies of these reports, contact the Chesapeake Bay Office at DEQ in Richmond.

The US Environmental Protection Agency, Chesapeake Bay Program Office, has examined the water quality data for the main stem of Chesapeake Bay to determine

whether conditions are changing. Reports have been issued as part of the Chesapeake Bay Programs's Technical Report Series (see below). A similar examination of tributary data was made by Bishop *et al* (1990).

Dissolved Oxygen (1984-1990)	CBP/TRS 66/91
Phosphorus (1984-1990)	CBP/TRS 67/91
Nitrogen (1984-1990)	CBP/TRS 68/92
Phosphorus, Nitrogen, Secchi Depth & Dissolved Oxygen (1984-1992)	CBP/TRS 90/93

The Chesapeake Bay program also includes programs to monitor the living resources; phytoplankton, zooplankton and benthos have been monitored in the Virginia tributaries and in the Virginia portion of Chesapeake Bay since 1984 (see Alden *et al.*, 1992). Other elements deal with toxic substances, nonpoint source pollution and modelling of water quality. The Chesapeake Bay Program will provide water quality data to users; it is recommended that interested parties acquire the *Guide to Using Chesapeake Bay Program Water Quality Monitoring Data* (1993) prior to making a request for data. Contact the Chesapeake Bay Program Office at 1-800-968-7229 to obtain the guide.

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Tributary Water Quality Characterization Report (Reports available for 1984-85, 1986, 1987 and 1988). Chesapeake Bay Office, Virginia Water Control Board, Richmond, VA 23230-1143.

UNESCO, 1983. UNESCO Technical Papers in Marine Science 44. Algorithms for Computation of Fundamental Properties of Seawater.

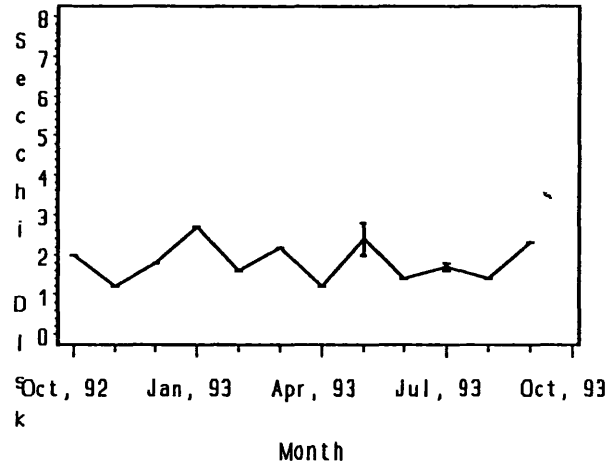
SECCHI DISK

Values reported as meters.

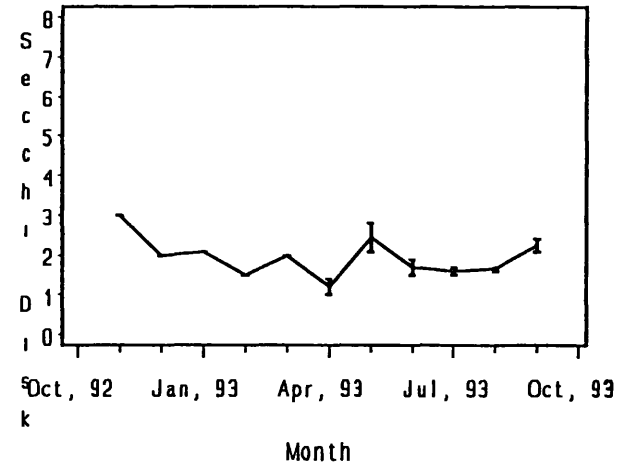
Secchi Disk
October, 1992 - September, 1993

	Secchi Disk (m)		
	Max	Mean	Min
CB5.4.....	2.80	1.81	1.20
CB5.5.....	3.00	1.90	1.00
CB6.1.....	3.00	1.83	1.10
CB6.2.....	3.10	1.65	0.80
CB6.3.....	3.40	1.67	0.80
CB6.4.....	2.20	1.43	0.80
CB7.3.....	2.30	1.54	0.90
CB7.4.....	7.50	1.98	0.70
CB7.4N.....	2.50	1.57	0.60
CB8.1E.....	2.70	1.41	0.70
CB8.1.....	1.80	1.22	0.80
EE3.1.....	1.60	0.92	0.50
EE3.2.....	2.00	1.24	0.60
CB7.1N.....	2.70	1.57	0.90
CB7.1.....	3.10	1.71	0.70
CB7.1S.....	3.40	1.82	1.10
CB5.4W.....	3.10	1.66	1.00
CB7.2.....	3.10	1.79	1.00
CB7.2E.....	2.80	1.73	0.90
CB7.3E.....	2.20	1.53	0.90
LE3.6.....	4.00	1.66	1.00
LE3.7.....	4.70	1.76	0.80
WE4.1.....	2.50	1.25	0.90
WE4.2.....	2.80	1.61	0.90
WE4.3.....	3.80	1.48	0.80
WE4.4.....	3.20	1.22	0.80
LE5.5.....	2.10	1.21	0.50

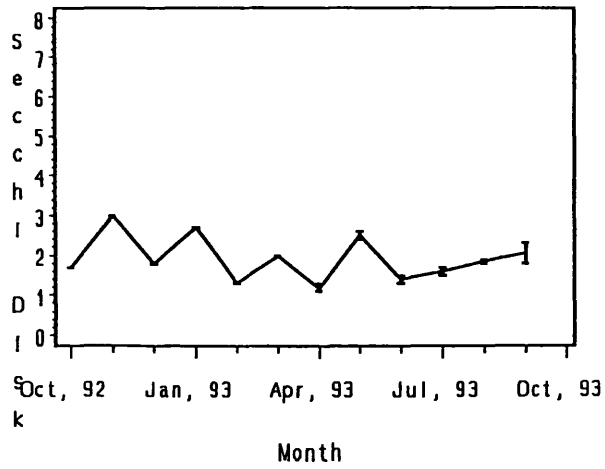
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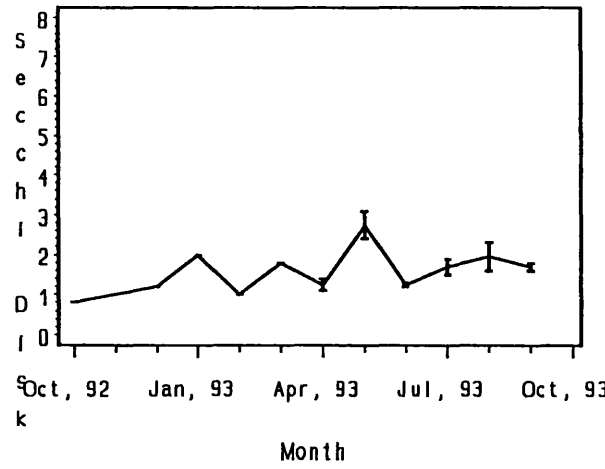
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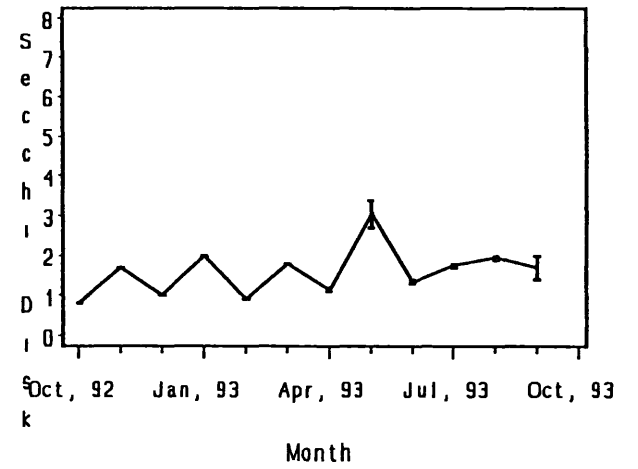
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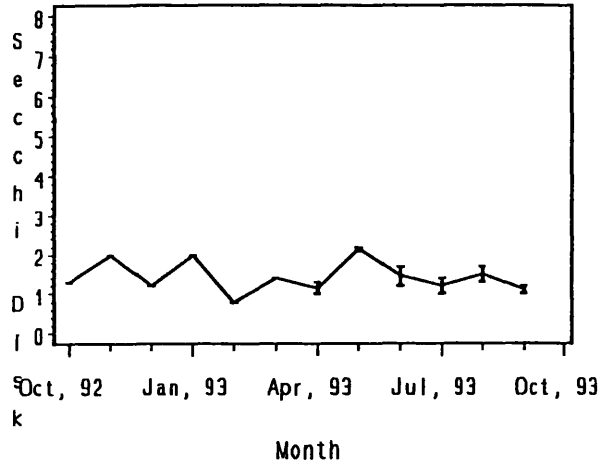
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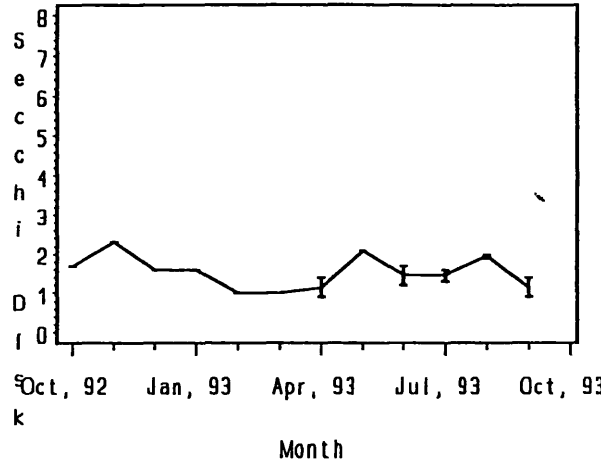
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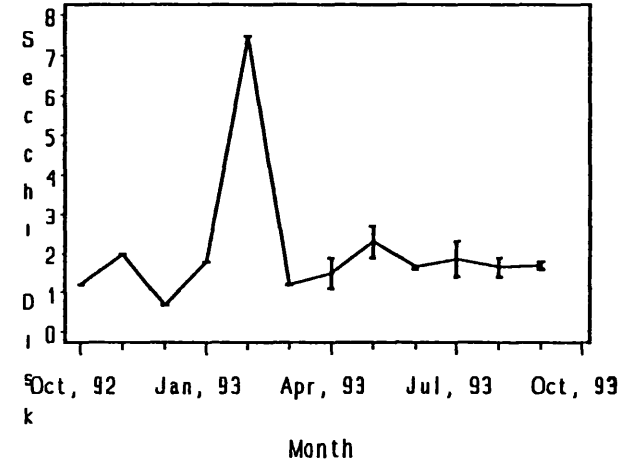
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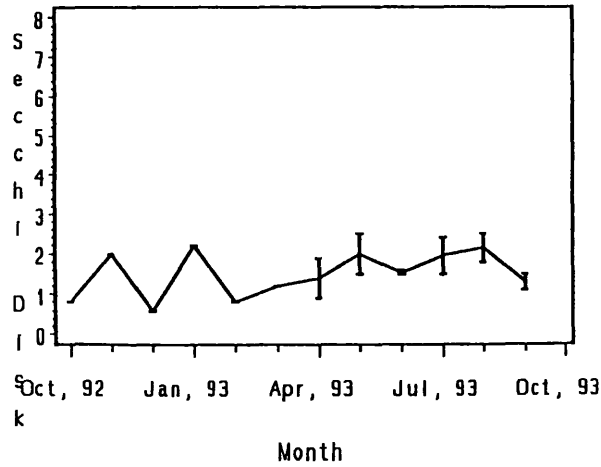
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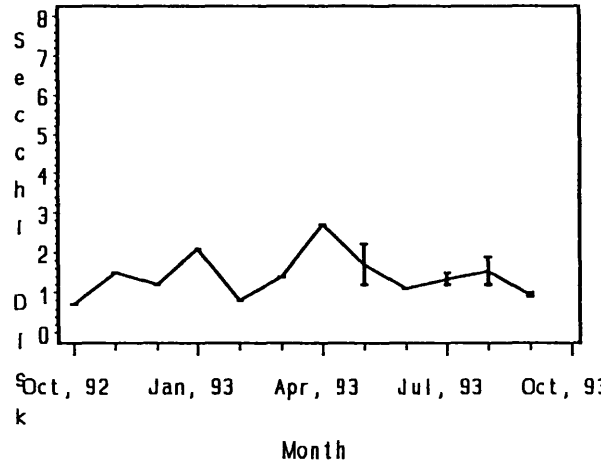
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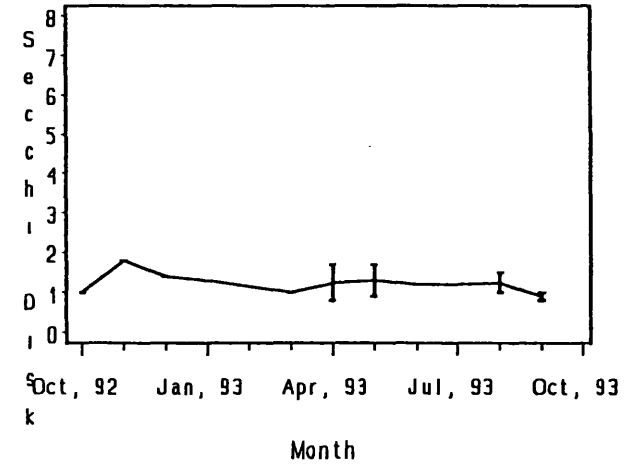
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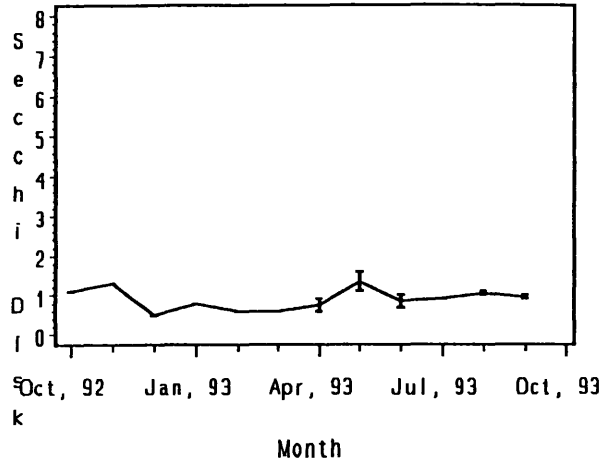
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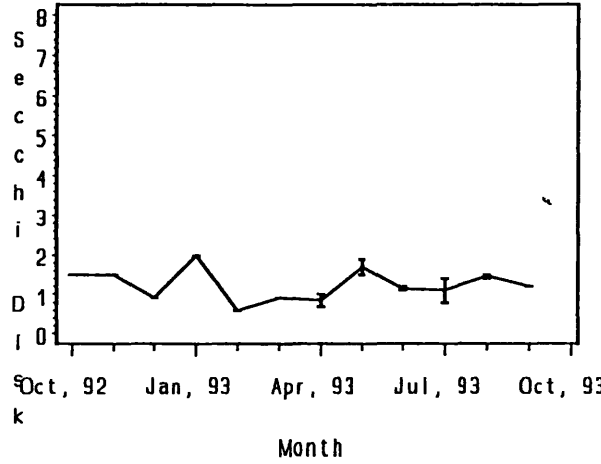
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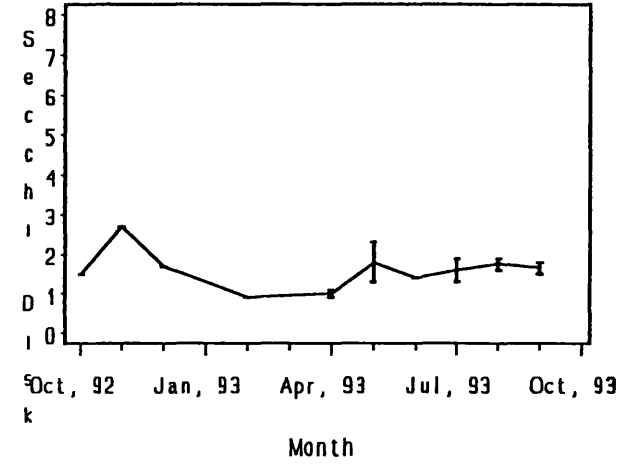
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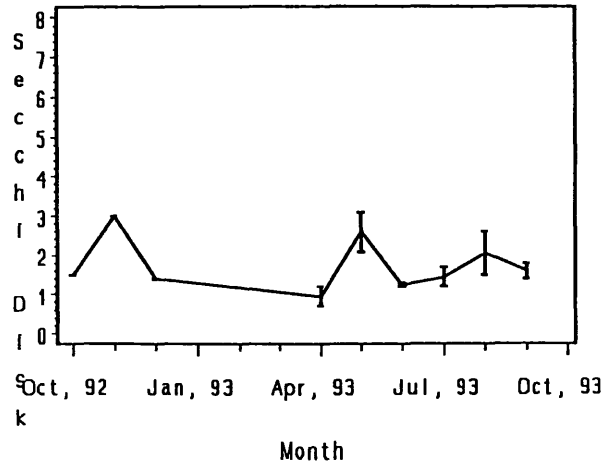


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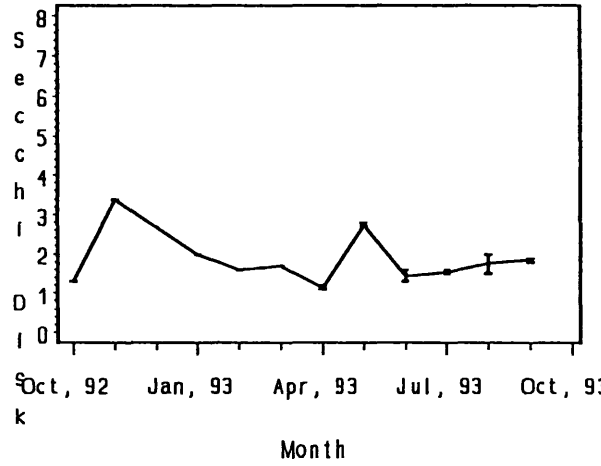
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Layer — Surface

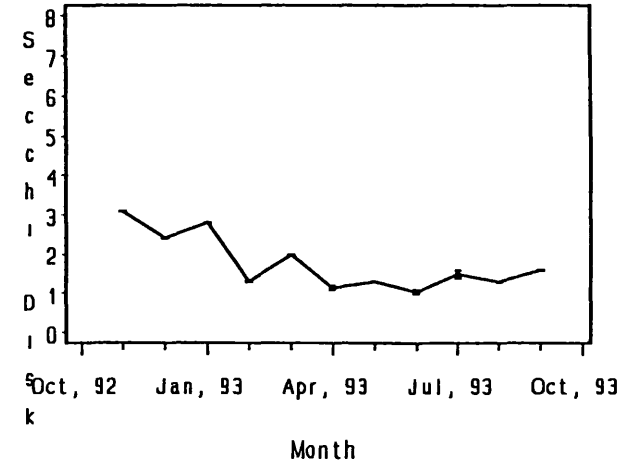
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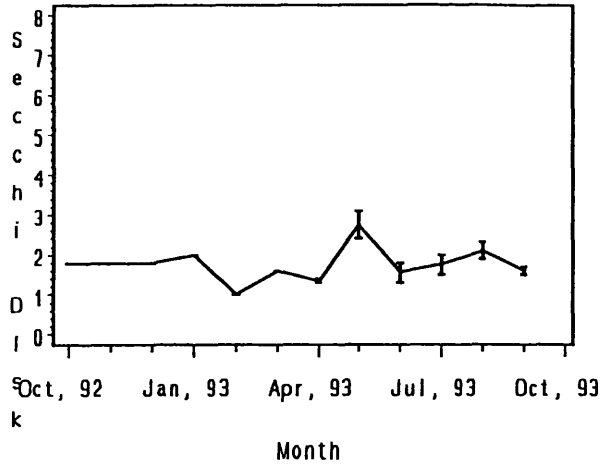
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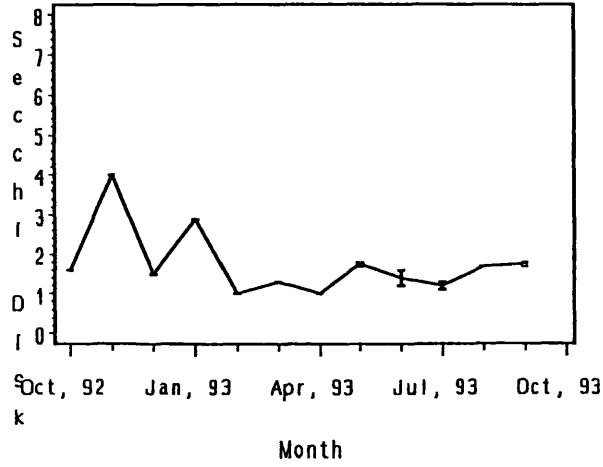
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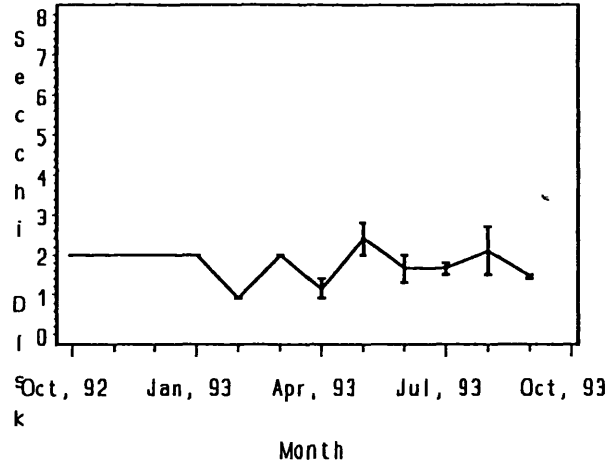
Layer — Surface

Station Id=LE3.6



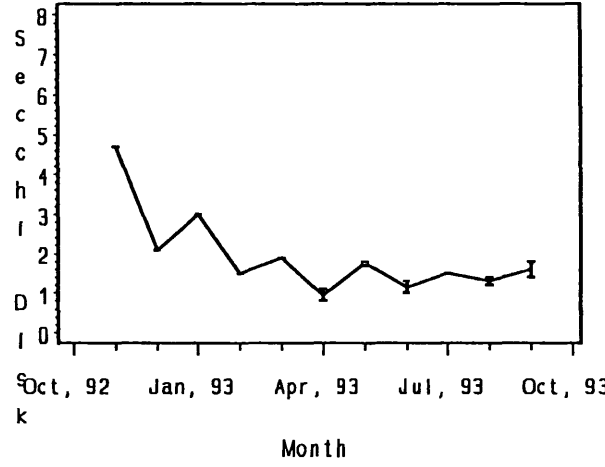
Layer — Surface

Station Id=CB7.2E



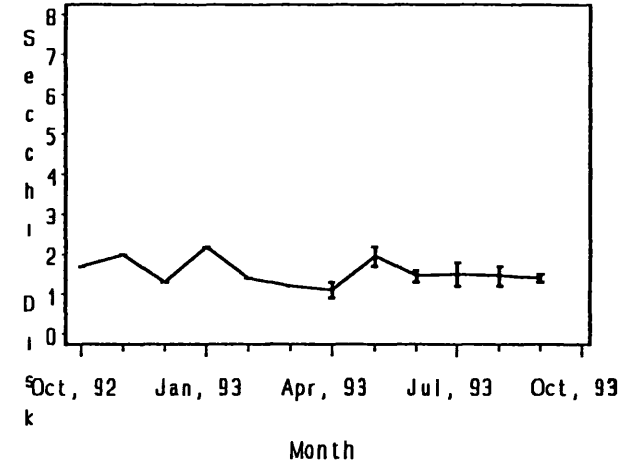
Layer — Surface

Station Id=LE3.7



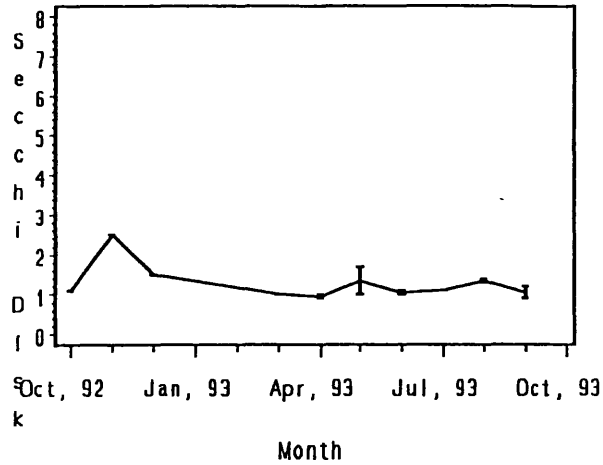
Layer — Surface

Station Id=CB7.3E



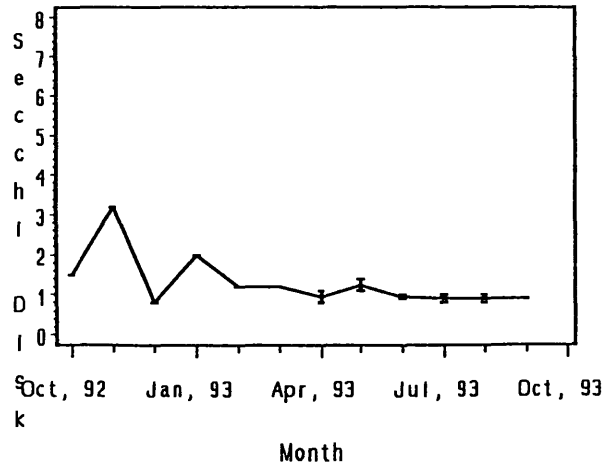
Layer — Surface

Station Id=WE4.1



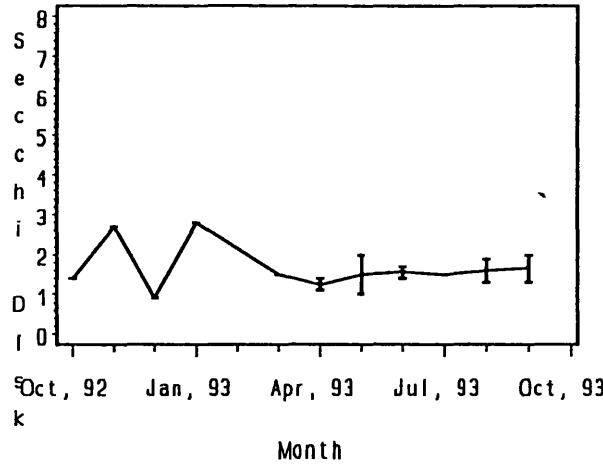
Layer — Surface

Station Id=WE4.4



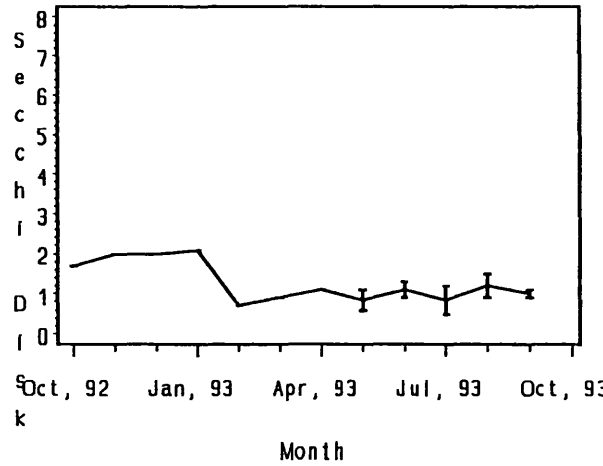
Layer — Surface

Station Id=WE4.2



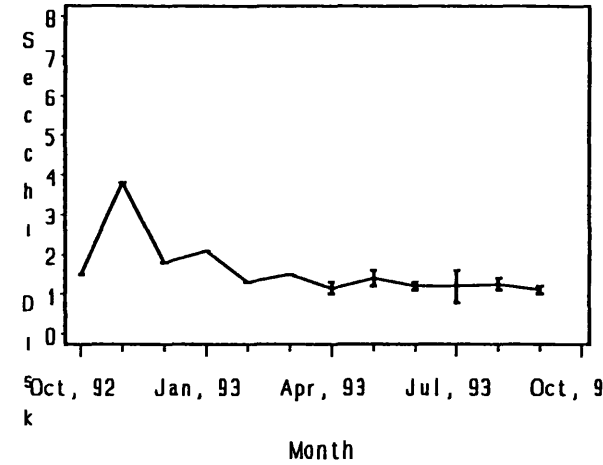
Layer — Surface

Station Id=LE5.5



Layer — Surface

Station Id=WE4.3



Layer — Surface

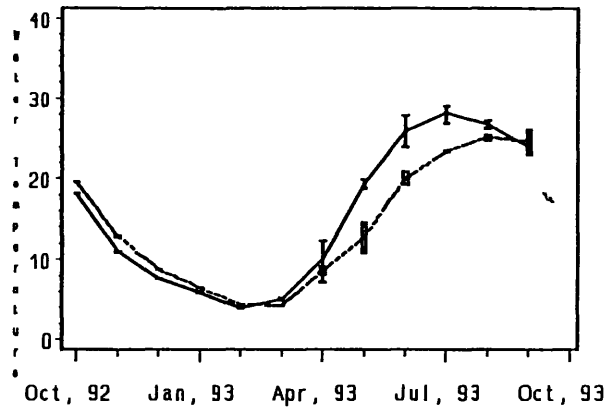
WATER TEMPERATURE

Values reported as degrees Centigrade.

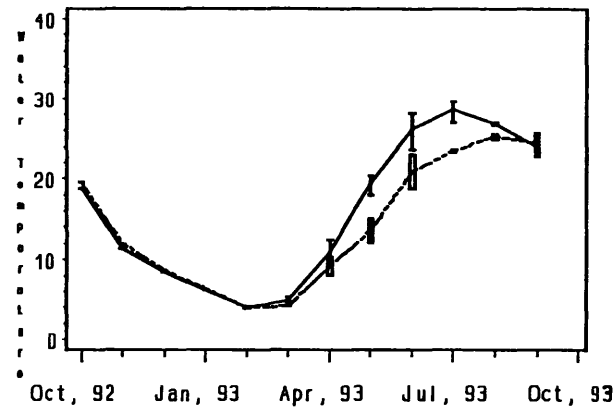
Water Temperature
October, 1992 - September, 1993

	Water Temperature					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	29.04	17.51	3.83	26.10	15.74	4.17
CB5.5.....	29.68	17.34	3.98	25.70	16.05	3.84
CB6.1.....	30.55	18.65	3.92	25.61	16.31	4.23
CB6.2.....	29.68	18.42	4.13	25.33	16.26	4.30
CB6.3.....	29.47	17.99	4.18	25.33	15.89	4.42
CB6.4.....	29.54	17.42	3.95	25.07	15.66	3.85
CB7.3.....	29.73	17.53	4.43	24.49	14.65	4.59
CB7.4.....	26.49	16.41	4.98	24.03	13.54	4.47
CB7.4N.....	28.19	16.67	4.25	25.12	15.80	4.28
CB8.1E.....	26.47	16.80	5.06	22.95	12.69	4.85
CB8.1.....	27.25	17.24	4.37	24.70	14.85	4.41
EE3.1.....	30.15	19.03	2.58	30.06	17.69	2.59
EE3.2.....	30.26	17.42	2.86	27.01	17.50	4.04
CB7.1N.....	29.02	17.36	2.98	26.42	16.40	4.24
CB7.1.....	30.22	18.12	3.92	25.71	16.45	4.42
CB7.1S.....	30.24	17.94	3.99	25.11	16.15	4.50
CB5.4W.....	30.00	18.66	3.70	29.98	18.06	3.62
CB7.2.....	30.76	18.33	4.55	25.34	15.69	4.57
CB7.2E.....	30.74	18.52	4.53	25.32	16.85	4.51
CB7.3E.....	29.17	17.14	4.61	25.29	15.74	4.35
LE3.6.....	31.12	18.89	3.99	27.48	17.44	3.87
LE3.7.....	30.86	18.79	4.22	28.26	17.83	3.86
WE4.1.....	30.28	18.39	4.41	29.98	17.81	4.38
WE4.2.....	29.25	18.44	4.78	26.85	16.64	4.68
WE4.3.....	29.02	17.94	4.16	27.93	18.03	4.28
WE4.4.....	30.29	18.33	4.33	29.84	17.88	4.34
LE5.5.....	30.08	18.30	5.32	25.22	15.03	5.01

Station Id=CB5.4



Station Id=CB5.5



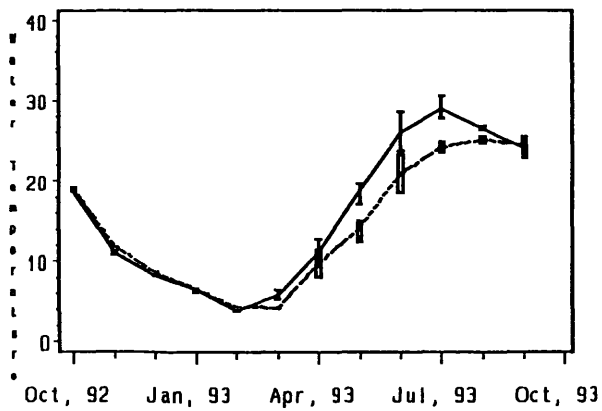
Month

Month

Layer — Surface — Bottom

Layer — Surface — Bottom

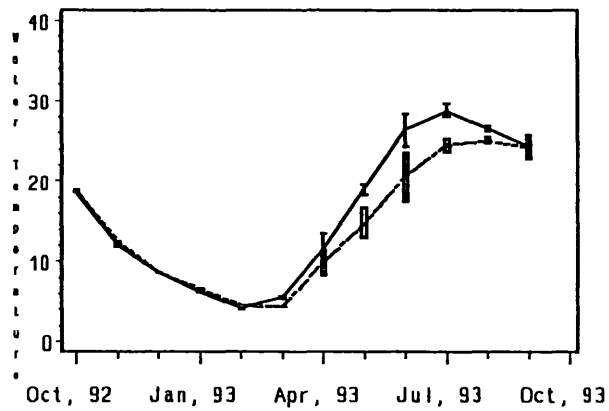
Station Id=CB6.1



Month

Layer — Surface — Bottom

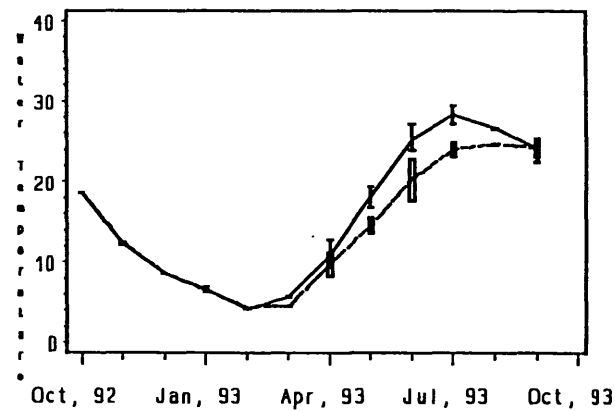
Station Id=CB6.2



Month

Layer — Surface — Bottom

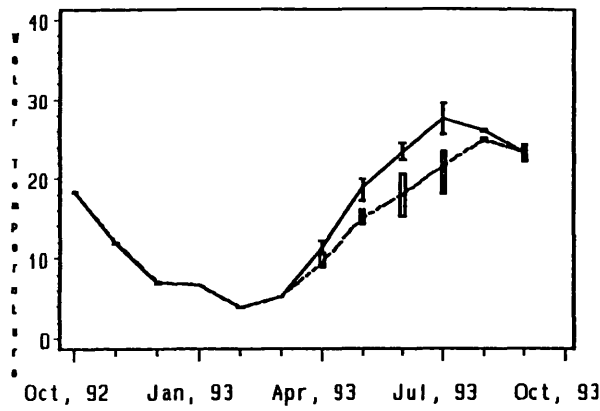
Station Id=CB6.3



Month

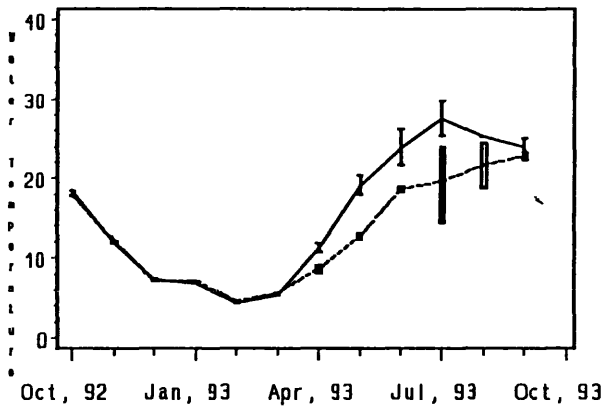
Layer — Surface — Bottom

Station Id=CB6.4



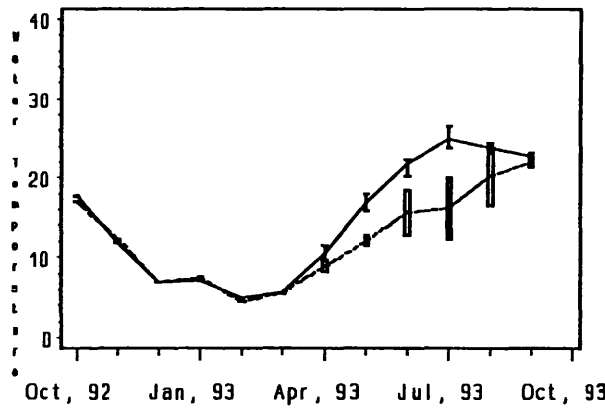
Month
 Layer — Surface — Bottom
 Station Id=CB7.4N

Station Id=CB7.3

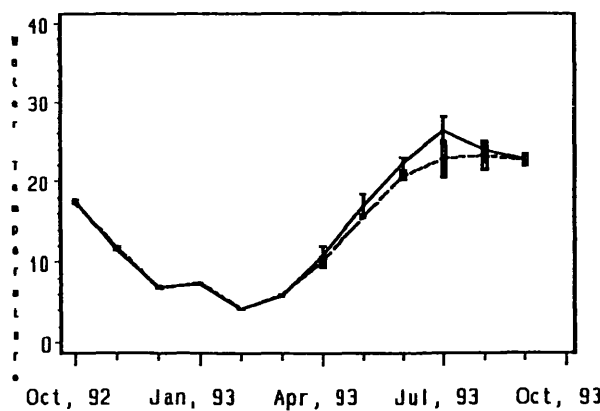


Month
 Layer — Surface — Bottom
 Station Id=CB8.1E

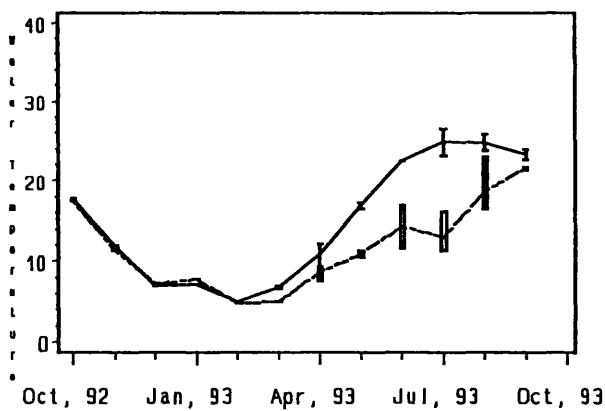
Station Id=CB7.4



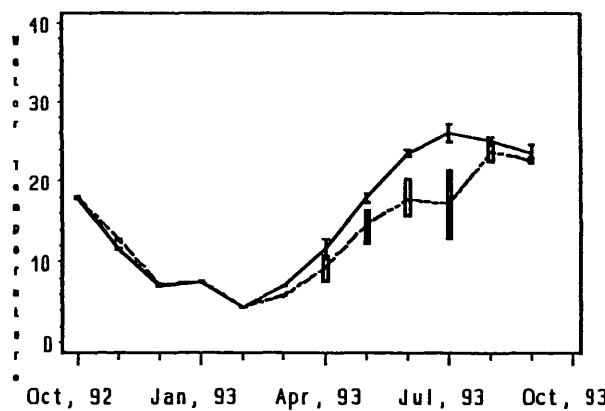
Month
 Layer — Surface — Bottom
 Station Id=CB8.1



Month
 Layer — Surface — Bottom

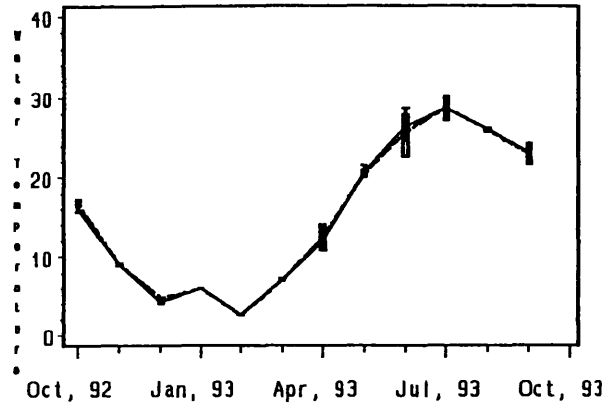


Month
 Layer — Surface — Bottom



Month
 Layer — Surface — Bottom

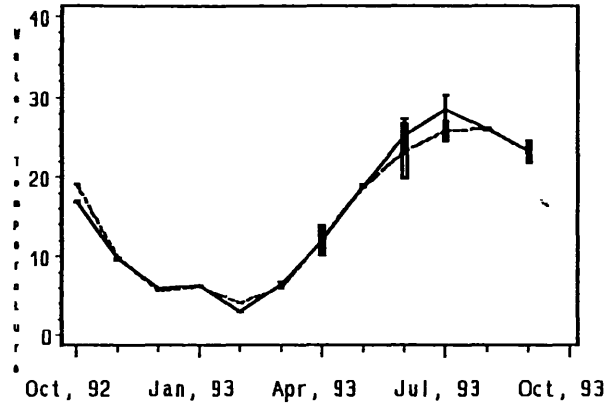
Station Id=EE3.1



Month

Layer — Surface - - - Bottom

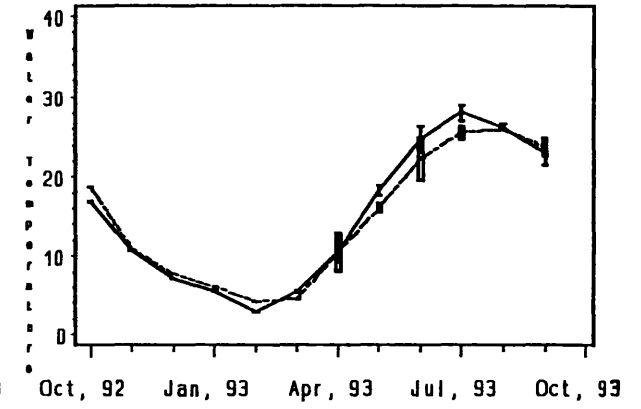
Station Id=EE3.2



Month

Layer — Surface - - - Bottom

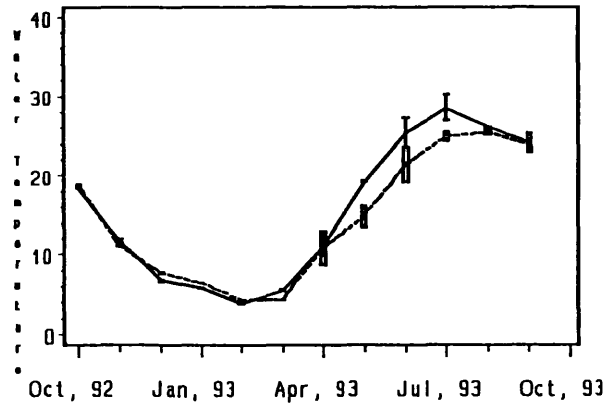
Station Id=CB7.1N



Month

Layer — Surface - - - Bottom

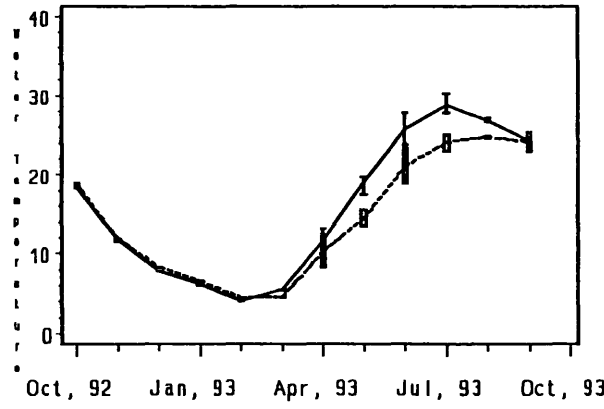
Station Id=CB7.1



Month

Layer — Surface - - - Bottom

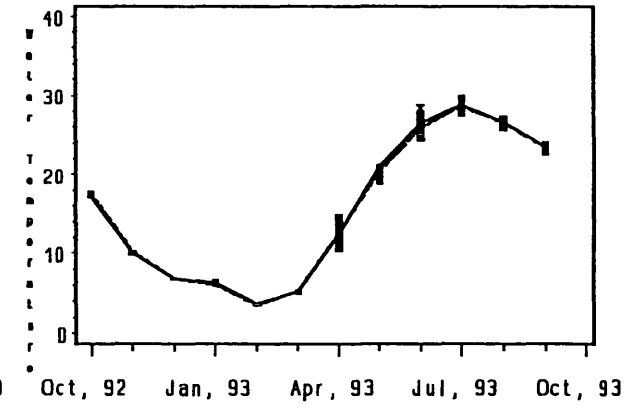
Station Id=CB7.1S



Month

Layer — Surface - - - Bottom

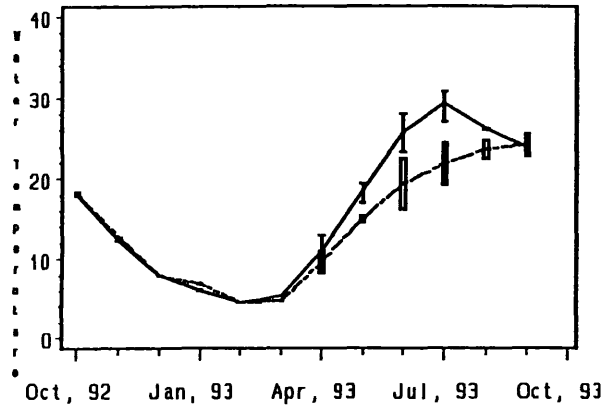
Station Id=CB5.4W



Month

Layer — Surface - - - Bottom

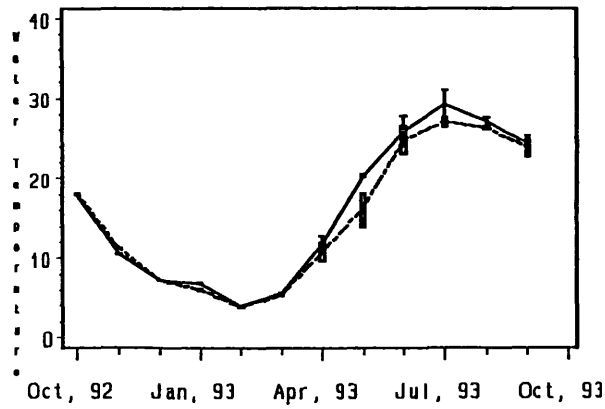
Station Id=CB7.2



Month

Layer — Surface - - - Bottom

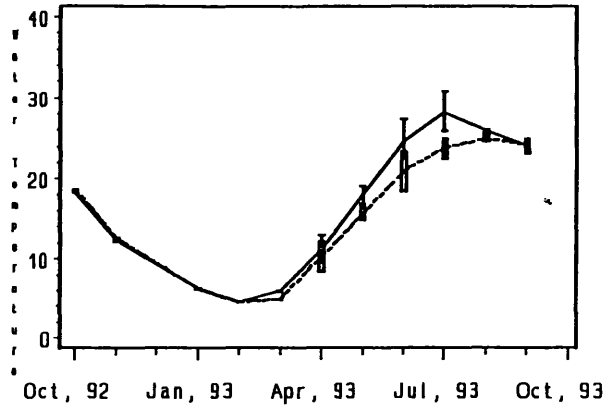
Station Id=LE3.6



Month

Layer — Surface - - - Bottom

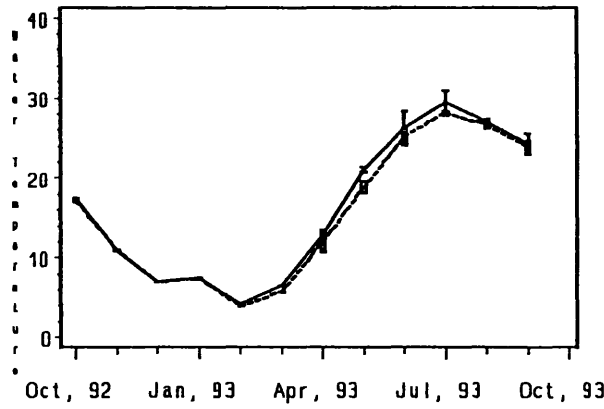
Station Id=CB7.2E



Month

Layer — Surface - - - Bottom

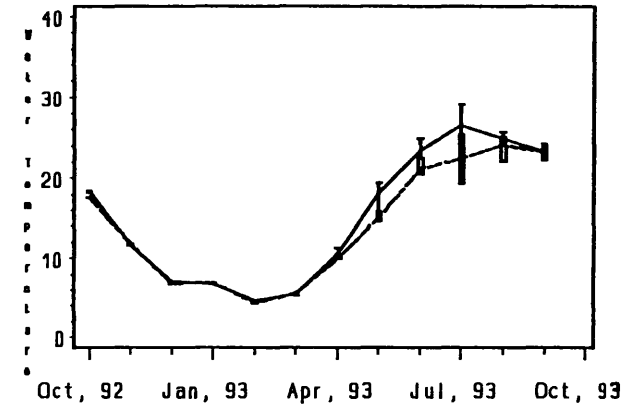
Station Id=LE3.7



Month

Layer — Surface - - - Bottom

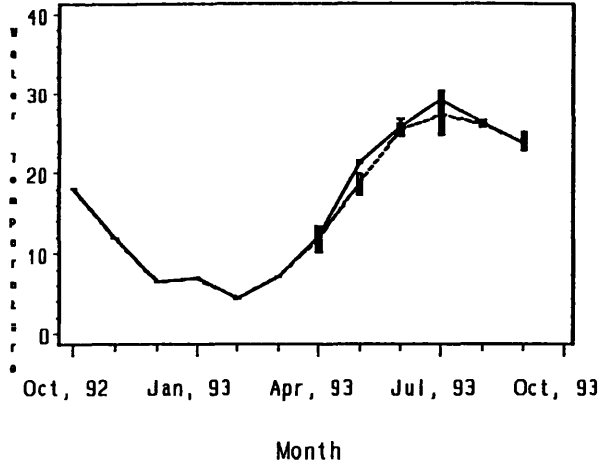
Station Id=CB7.3E



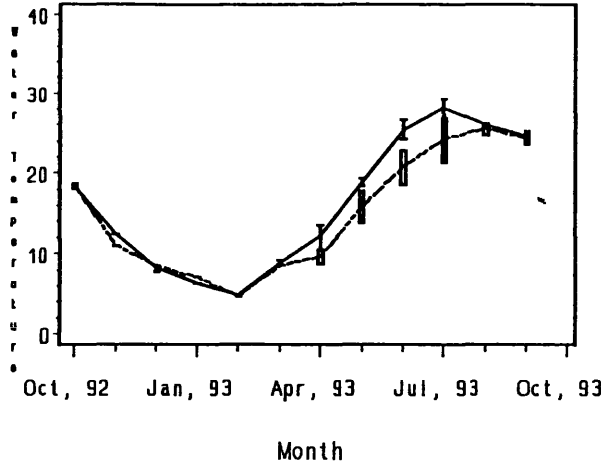
Month

Layer — Surface - - - Bottom

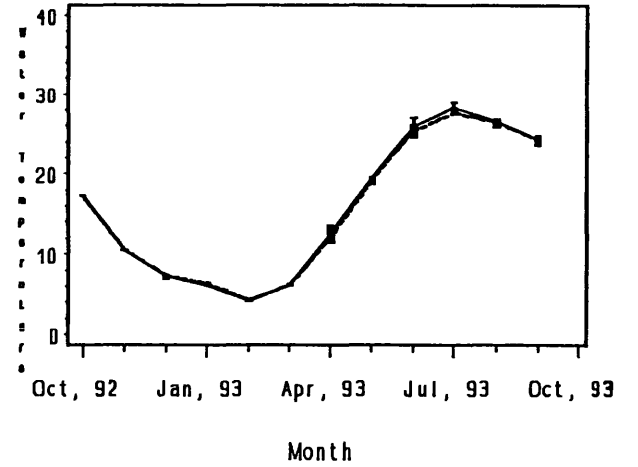
Station Id=WE4.1



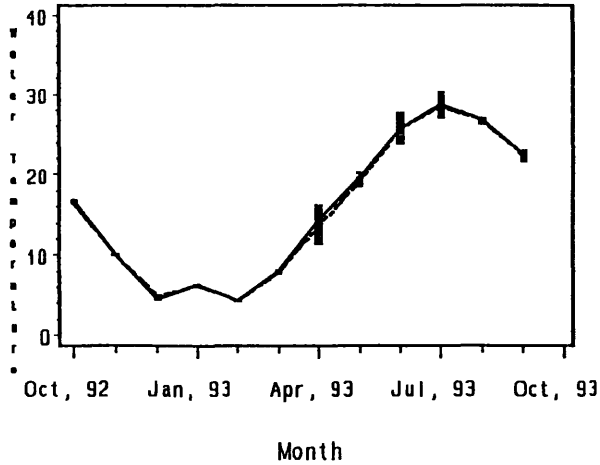
Station Id=WE4.2



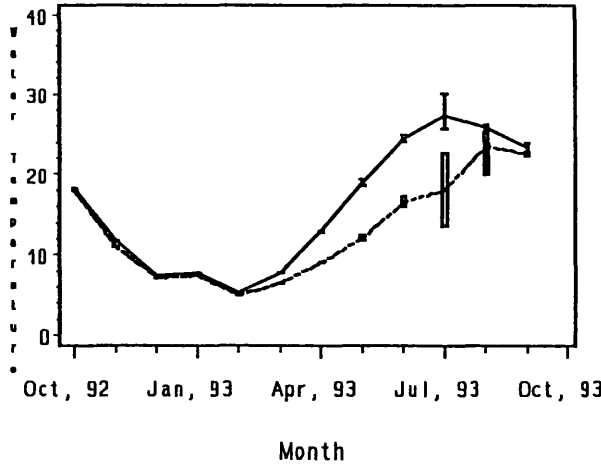
Station Id=WE4.3



Layer — Surface — Bottom
Station Id=WE4.4



Layer — Surface — Bottom
Station Id=LE5.5



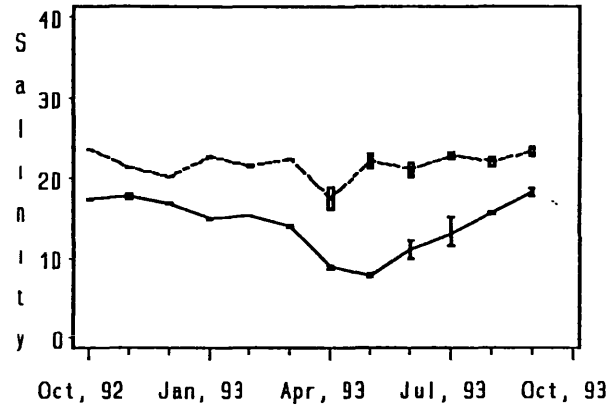
SALINITY

Salinity is calculated using UNESCO 83 EOS
and is reported as practical salinity (PS).

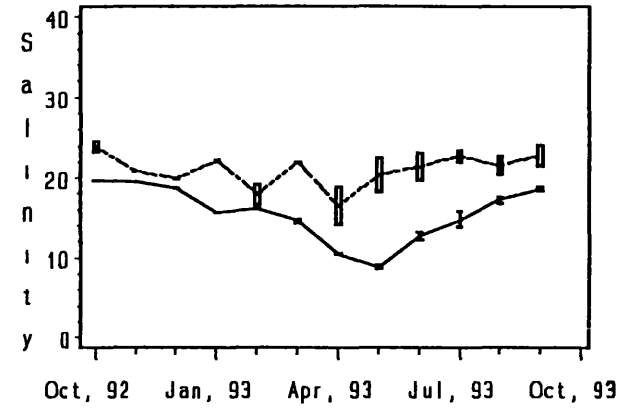
Salinity
October, 1992 - September, 1993

	Salinity					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	18.68	13.63	7.59	23.94	21.69	16.14
CB5.5.....	19.79	14.93	8.60	24.59	20.98	14.22
CB6.1.....	20.65	15.40	9.39	25.05	21.28	13.47
CB6.2.....	20.90	15.96	10.24	25.29	21.28	13.50
CB6.3.....	22.62	16.77	10.00	25.40	21.81	14.43
CB6.4.....	25.60	18.89	12.80	28.60	23.17	18.10
CB7.3.....	26.30	21.25	14.20	31.40	27.72	21.90
CB7.4.....	29.70	24.11	17.70	32.00	29.80	24.50
CB7.4N.....	32.50	25.84	16.70	32.30	29.09	25.10
CB8.1E.....	27.00	22.47	15.20	32.20	29.97	27.30
CB8.1.....	25.20	20.22	12.00	31.30	25.20	14.70
EE3.1.....	19.16	15.44	10.50	20.14	16.26	10.57
EE3.2.....	20.90	17.20	13.59	23.41	18.55	13.76
CB7.1N.....	20.05	16.06	11.30	23.06	18.91	11.66
CB7.1.....	22.31	16.81	9.69	24.27	20.59	12.56
CB7.1S.....	22.61	16.39	9.06	25.40	22.13	13.20
CB5.4W.....	18.65	13.78	8.25	18.54	13.94	8.25
CB7.2.....	24.18	17.56	9.84	29.86	24.68	16.61
CB7.2E.....	25.33	19.10	12.38	27.29	22.37	14.67
CB7.3E.....	26.40	21.96	15.60	30.20	26.13	20.20
LE3.6.....	19.77	14.36	8.80	21.44	15.90	11.13
LE3.7.....	19.47	14.53	9.50	20.93	15.01	10.35
WE4.1.....	22.84	18.17	12.67	22.84	18.91	13.83
WE4.2.....	23.23	18.42	12.58	25.77	21.41	13.64
WE4.3.....	23.42	18.47	11.98	23.44	18.70	11.99
WE4.4.....	23.41	18.44	12.26	23.60	18.53	12.23
LE5.5.....	24.40	19.89	12.10	31.10	25.87	19.30

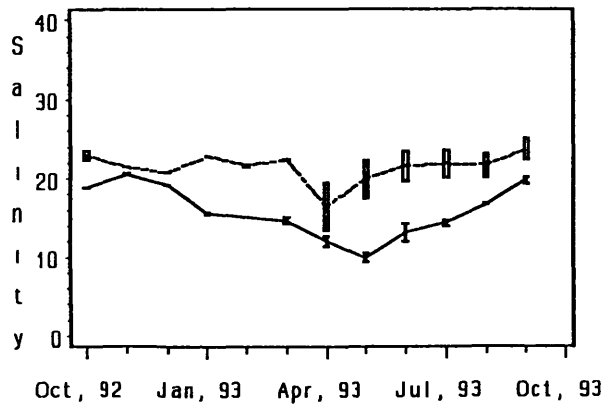
Station Id=CB5.4



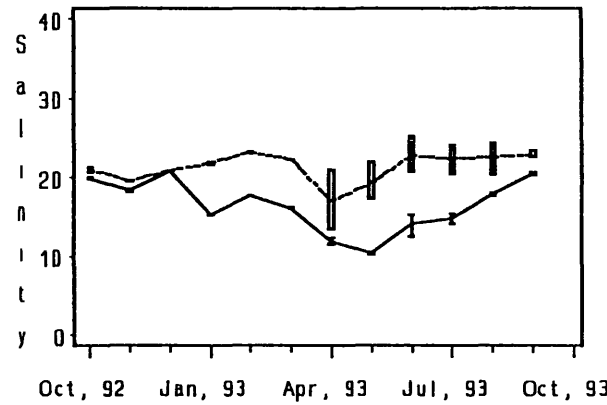
Station Id=CB5.5



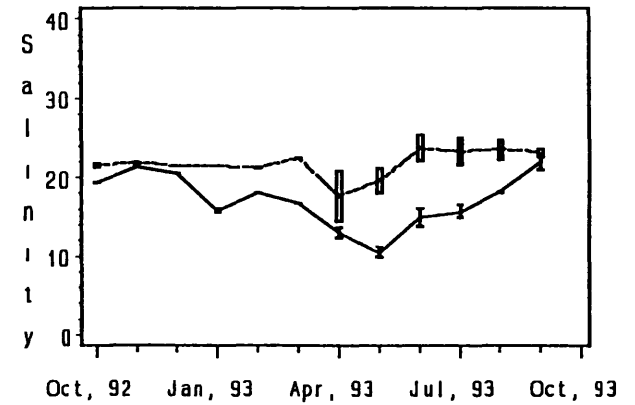
Station Id=CB6.1



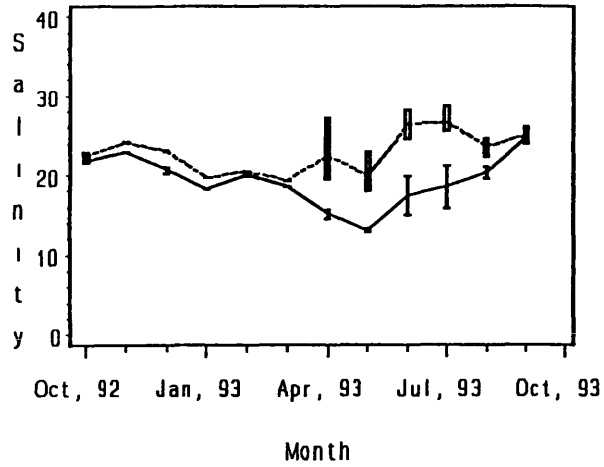
Station Id=CB6.2



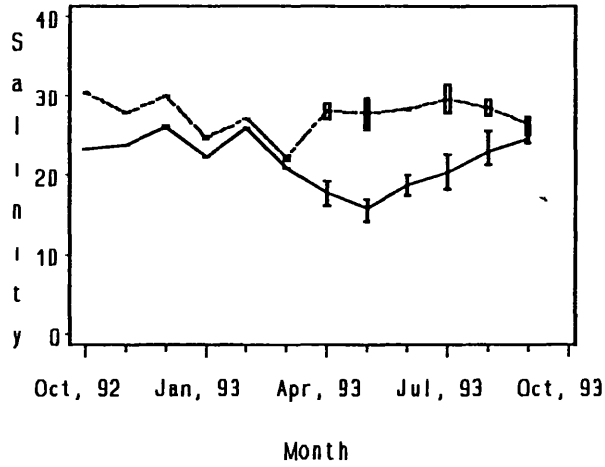
Station Id=CB6.3



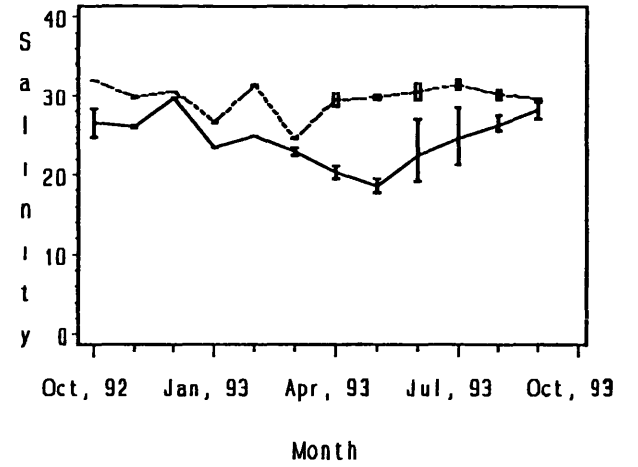
Station Id=CB6.4



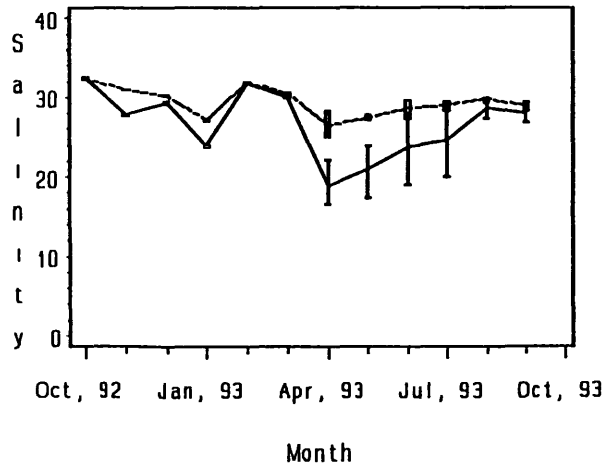
Station Id=CB7.3



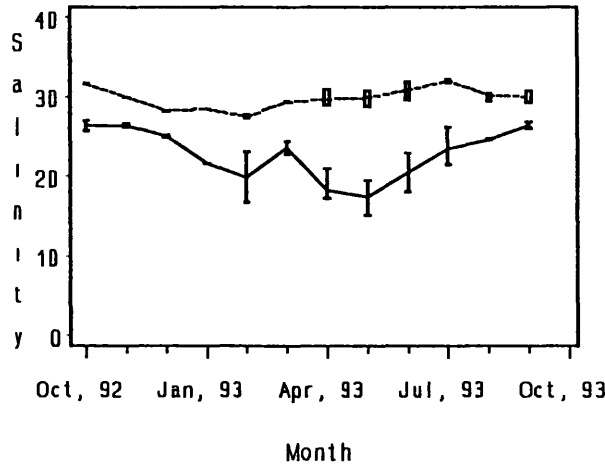
Station Id=CB7.4



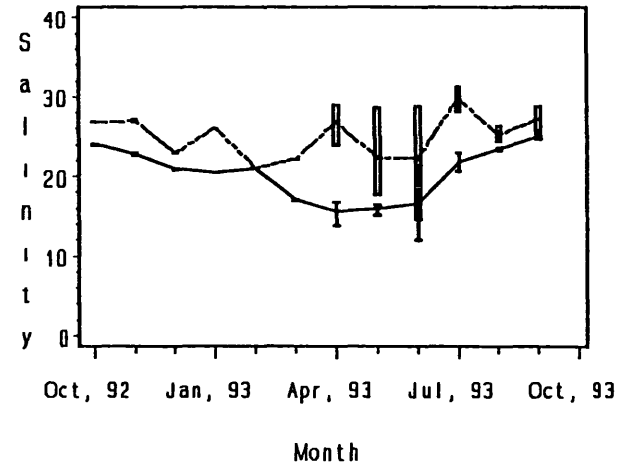
Layer — Surface — Bottom
Station Id=CB7.4N



Layer — Surface — Bottom
Station Id=CB8.1E



Layer — Surface — Bottom
Station Id=CB8.1

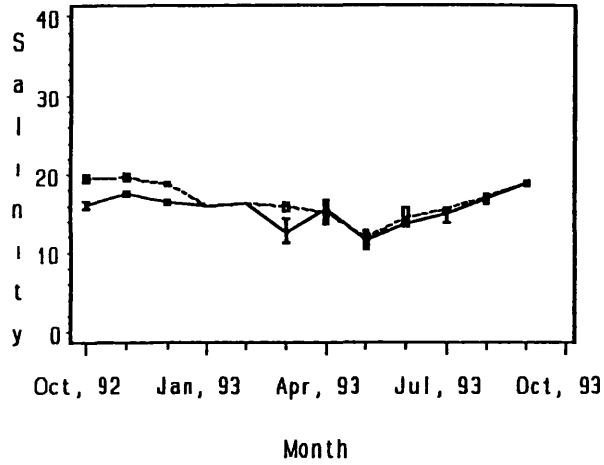


Layer — Surface — Bottom

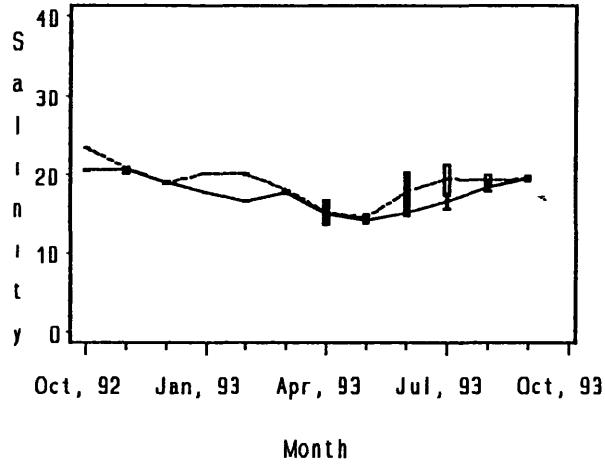
Layer — Surface — Bottom

Layer — Surface — Bottom

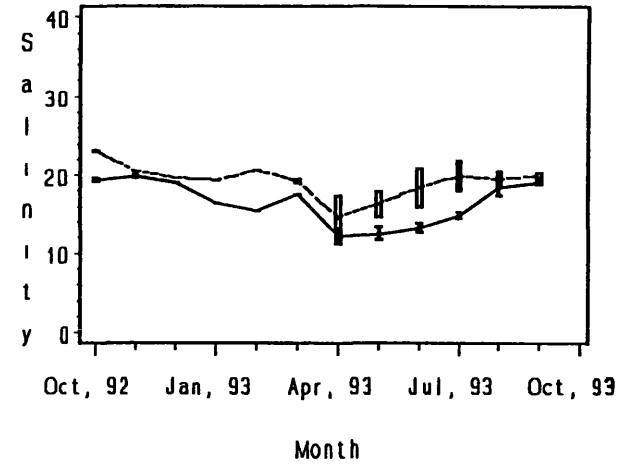
Station Id=EE3.1



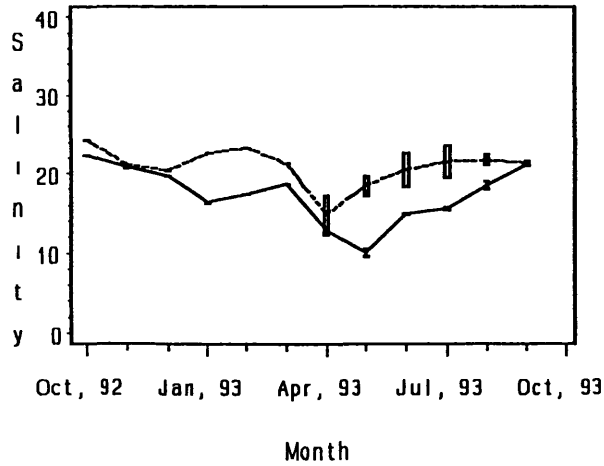
Station Id=EE3.2



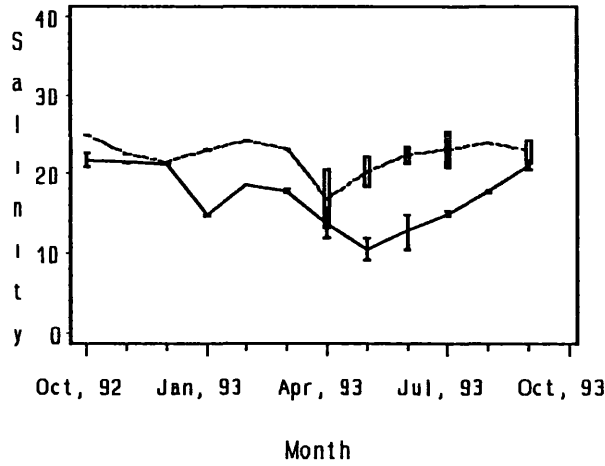
Station Id=CB7.1N



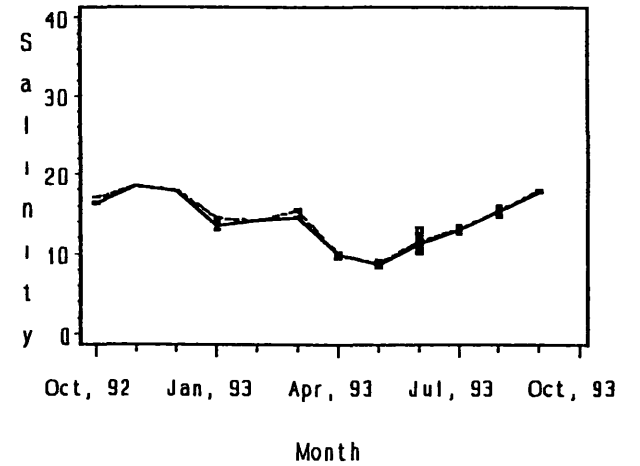
Layer — Surface — Bottom
Station Id=CB7.1



Layer — Surface — Bottom
Station Id=CB7.1S



Layer — Surface — Bottom
Station Id=CB5.4W

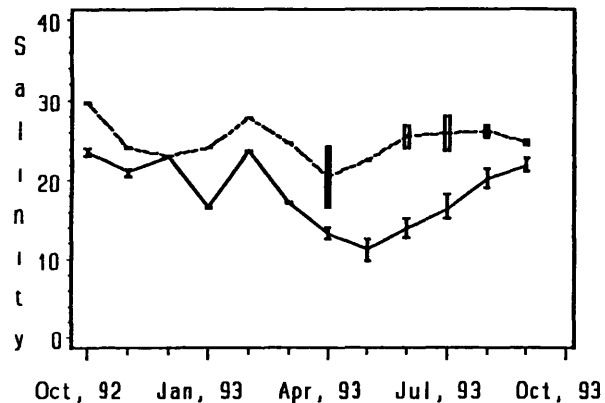


Layer — Surface — Bottom

Layer — Surface — Bottom

Layer — Surface — Bottom

Station Id=CB7.2

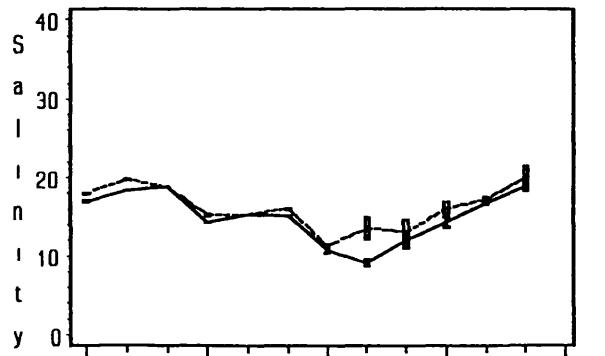


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface - - - Bottom

Station Id=LE3.6

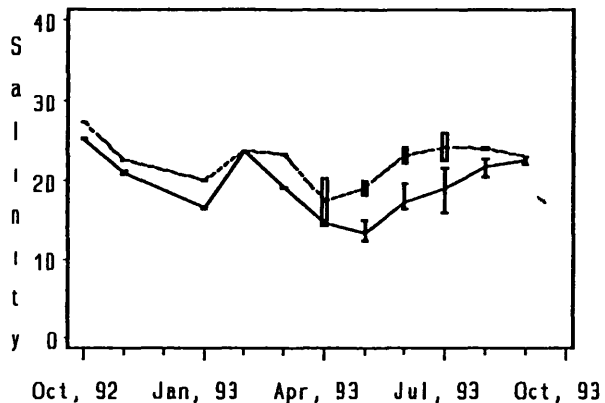


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface - - - Bottom

Station Id=CB7.2E

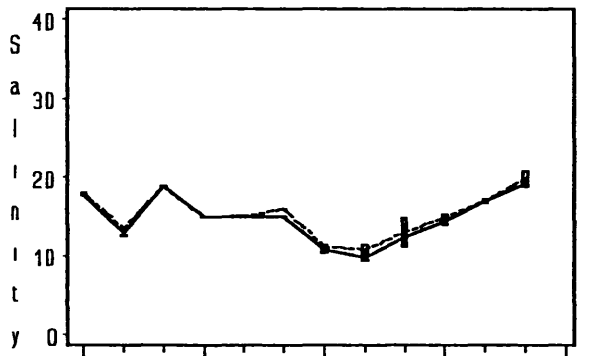


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface - - - Bottom

Station Id=LE3.7

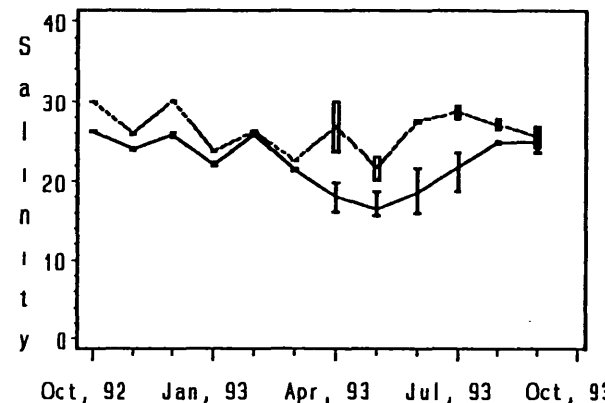


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface - - - Bottom

Station Id=CB7.3E

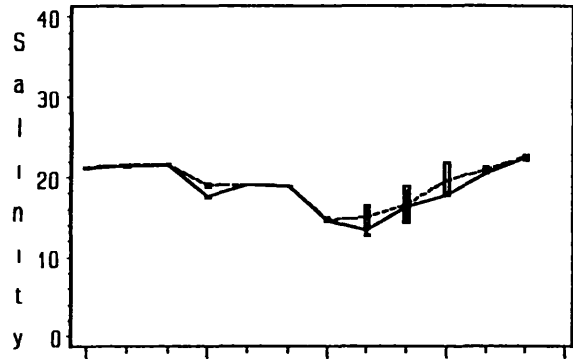


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface - - - Bottom

Station Id=WE4.1

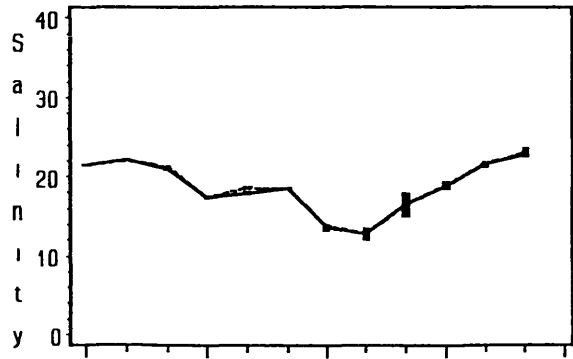


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface — Bottom

Station Id=WE4.4

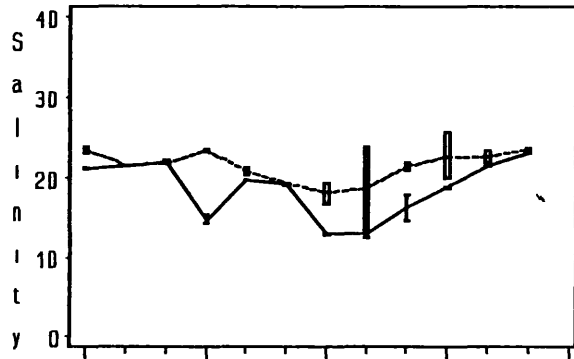


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface — Bottom

Station Id=WE4.2

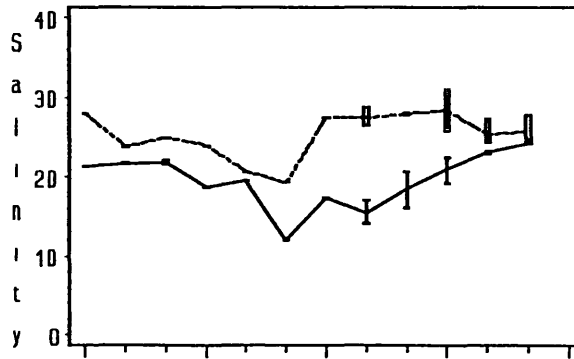


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface — Bottom

Station Id=LE5.5

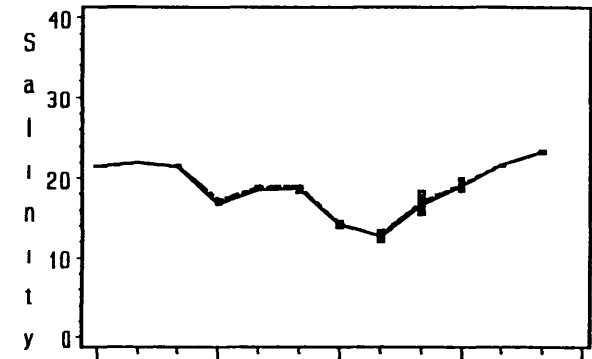


Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface — Bottom

Station Id=WE4.3



Oct, 92 Jan, 93 Apr, 93 Jul, 93 Oct, 93

Month

Layer — Surface — Bottom

DISSOLVED OXYGEN

Values reported as mg/l.

Dissolved Oxygen
October, 1992 - September, 1993

	Dissolved Oxygen					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	12.30	9.37	5.41	10.24	4.59	0.00
CB5.5.....	12.43	9.55	6.62	10.64	5.05	0.09
CB6.1.....	12.06	9.54	6.48	9.90	5.47	1.07
CB6.2.....	12.66	9.23	4.54	10.12	6.16	1.60
CB6.3.....	12.57	9.06	5.68	10.44	6.42	3.03
CB6.4.....	12.85	8.31	5.24	12.39	6.35	2.74
CB7.3.....	13.33	8.88	6.21	11.60	7.14	4.98
CB7.4.....	10.32	7.96	5.68	9.23	6.90	4.28
CB7.4N.....	11.29	7.78	5.53	8.67	7.07	5.33
CB8.1E.....	10.99	8.07	5.77	8.27	6.62	4.17
CB8.1.....	11.10	8.06	5.31	9.30	6.99	4.85
EE3.1.....	11.65	8.34	5.78	11.69	8.15	3.48
EE3.2.....	11.85	8.39	5.96	12.00	7.08	0.44
CB7.1N.....	11.67	8.52	5.86	10.66	6.37	1.23
CB7.1.....	12.32	9.35	6.31	9.86	5.77	0.81
CB7.1S.....	12.45	9.65	7.25	10.11	6.14	2.17
CB5.4W.....	14.21	9.37	4.19	14.30	8.97	3.97
CB7.2.....	12.63	9.48	7.07	10.13	6.59	3.82
CB7.2E.....	12.46	8.93	5.69	10.58	6.91	3.27
CB7.3E.....	10.91	7.83	5.12	8.97	6.49	4.14
LE3.6.....	12.51	9.61	6.54	12.46	7.59	0.54
LE3.7.....	12.70	9.52	6.55	12.37	8.17	0.64
WE4.1.....	12.00	8.96	6.57	12.46	8.14	1.35
WE4.2.....	11.56	8.39	6.01	10.93	5.86	1.17
WE4.3.....	11.89	8.50	5.42	11.77	8.13	1.16
WE4.4.....	11.66	8.64	5.16	11.82	8.58	4.75
LE5.5.....	14.13	8.08	5.31	9.29	6.34	4.21

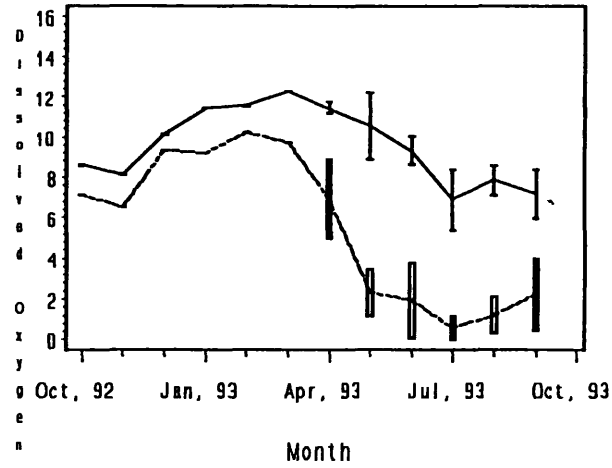
Dissolved Oxygen
October, 1992 - September, 1993

	CB7.4N	CB7.4	CB8.1E	CB8.1	CB7.3	CB7.3E	CB6.4	CB6.3	CB7.2	CB7.2E	CB6.2	CB6.1	CB5.5	CB5.4
Oct, 1992														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	14	16	10	14	20	10	12	18	12	10	12	18	25
Nov, 1992														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	11	13	17	9	13	16	12	10	18	13	9	12	17	23
Dec, 1992														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*	0.00	0.00	0.00	0.00
Total Obs.....	12	14	17	7	14	18	10	12	18	0	10	11	16	24
Jan, 1993														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	12	14	16	9	12	17	12	12	19	12	10	12	17	25
Feb, 1993														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	12	14	8	13	16	11	11	18	13	10	12	17	24
Mar, 1993														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	12	11	15	9	12	15	8	12	18	12	10	12	16	25
Apr, 1993														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	21	26	33	17	23	34	19	24	37	25	20	27	35	48
May, 1993														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.04	0.00	0.00	23.81	28.00	36.11	60.42
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	22.22	43.75
Total Obs.....	25	28	30	14	26	30	19	23	37	26	21	25	36	48
Jun, 1993														
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	31.58	43.48	36.11	43.48	60.00	37.50	50.00	65.22
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.09	33.33	34.78	35.00	37.50	47.06	63.04
Total Obs.....	19	24	32	17	26	30	19	23	36	23	20	24	34	46
Jul, 1993														
% < 5.....	0.00	0.00	0.00	7.14	4.35	77.78	55.56	54.17	66.67	54.17	40.00	41.67	67.65	73.91
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	50.00	54.17	0.00	33.33	40.00	41.67	64.71	69.57
Total Obs.....	20	23	32	14	23	27	18	24	36	24	20	24	34	46
Aug, 1993														
% < 5.....	0.00	0.00	0.00	7.14	0.00	24.14	64.71	47.83	16.22	28.00	55.00	54.17	50.00	72.34
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	47.06	21.74	0.00	0.00	15.00	50.00	38.24	55.32
Total Obs.....	25	27	32	14	26	29	17	23	37	25	20	24	34	47
Sep, 1993														
% < 5.....	0.00	33.33	31.25	0.00	0.00	0.00	0.00	23.81	24.32	0.00	15.00	37.50	34.38	60.42
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.50	9.38	22.92
Total Obs.....	20	21	32	14	24	28	20	21	37	25	20	24	32	48

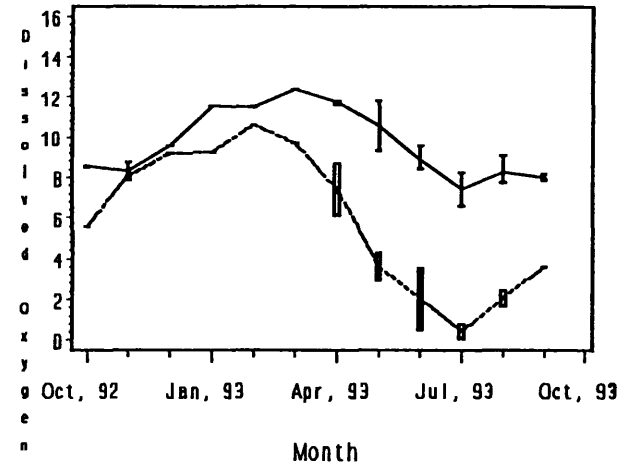
Dissolved Oxygen
October, 1992 - September, 1993

	CB7.1S	CB7.1	CB7.1N	EE3.2	EE3.1	CB5.4W	LE3.6	LE3.7	WE4.1	WE4.2	WE4.3	WE4.4	LE5.5
Oct, 1992													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	16	20	25	21	3	5	9	7	5	13	5	7	19
Nov, 1992													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	16	20	23	22	3	4	9	6	5	14	5	7	17
Dec, 1992													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	18	24	21	3	4	9	6	5	13	5	7	18
Jan, 1993													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	16	21	23	22	4	4	8	6	5	14	5	6	19
Feb, 1993													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	12	17	24	20	3	5	9	7	5	13	6	7	17
Mar, 1993													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	16	21	23	21	4	5	10	7	5	11	5	7	19
Apr, 1993													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	32	38	47	43	5	8	17	13	10	30	10	14	17
May, 1993													
% < 5.....	44.83	52.50	55.32	0.00	0.00	0.00	5.56	0.00	0.00	27.59	0.00	0.00	0.00
% < 4.....	0.00	35.00	40.43	0.00	0.00	0.00	0.00	0.00	0.00	24.14	0.00	0.00	0.00
Total Obs.....	29	40	47	41	6	8	18	14	10	29	10	13	37
Jun, 1993													
% < 5.....	36.67	70.00	39.13	42.86	12.50	0.00	6.25	25.00	0.00	42.86	20.00	0.00	0.00
% < 4.....	33.33	50.00	26.09	0.00	12.50	0.00	0.00	0.00	0.00	39.29	10.00	0.00	0.00
Total Obs.....	30	40	46	42	8	8	16	12	10	28	10	13	36
Jul, 1993													
% < 5.....	70.97	80.00	63.04	39.53	22.22	12.50	17.65	27.27	30.00	53.85	10.00	25.00	40.63
% < 4.....	70.97	75.00	58.70	37.21	0.00	0.00	11.76	27.27	20.00	42.31	10.00	0.00	0.00
Total Obs.....	31	40	46	43	9	8	17	11	10	26	10	12	32
Aug, 1993													
% < 5.....	62.50	60.00	2.22	26.83	0.00	55.56	0.00	0.00	0.00	37.93	0.00	0.00	2.86
% < 4.....	31.25	42.50	0.00	0.00	0.00	11.11	0.00	0.00	0.00	17.24	0.00	0.00	0.00
Total Obs.....	32	40	45	41	8	9	18	14	10	29	10	13	35
Sep, 1993													
% < 5.....	20.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00	3.85	0.00	0.00	11.11
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	30	39	47	43	7	8	16	12	9	26	9	12	36

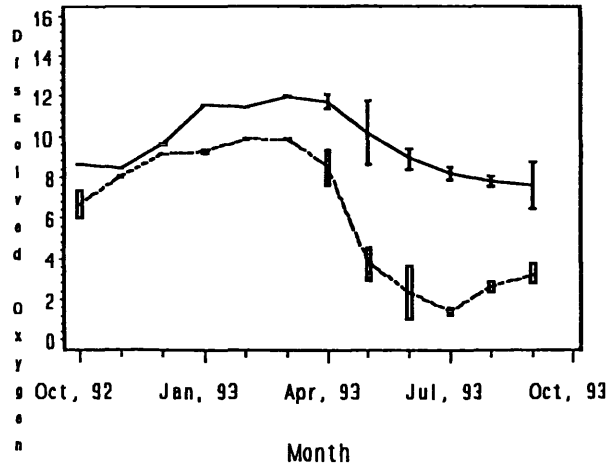
Station Id=CB5.4



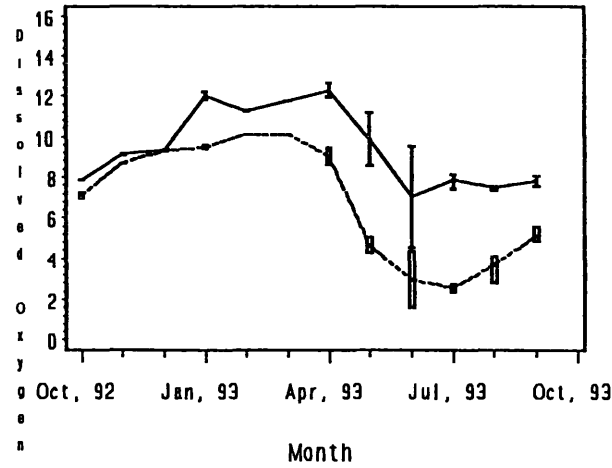
Station Id=CB5.5



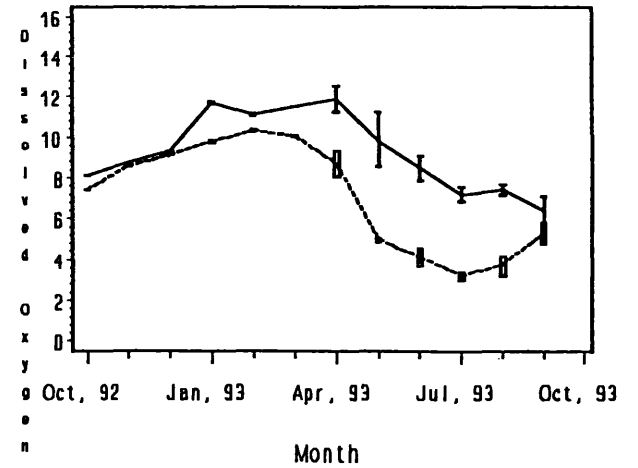
Station Id=CB6.1



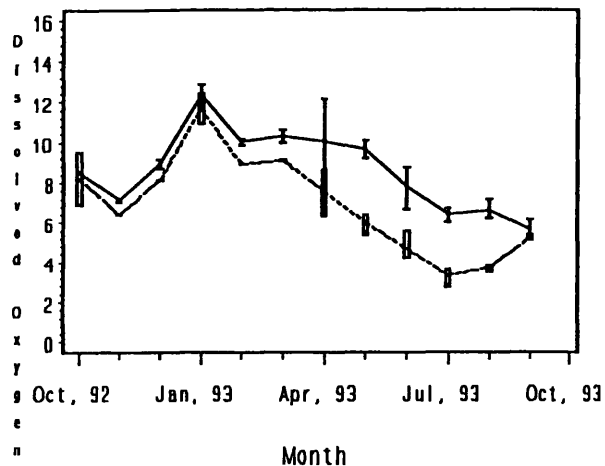
Station Id=CB6.2



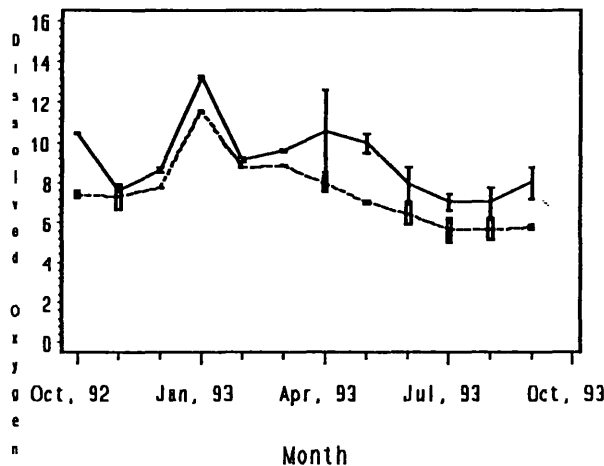
Station Id=CB6.3



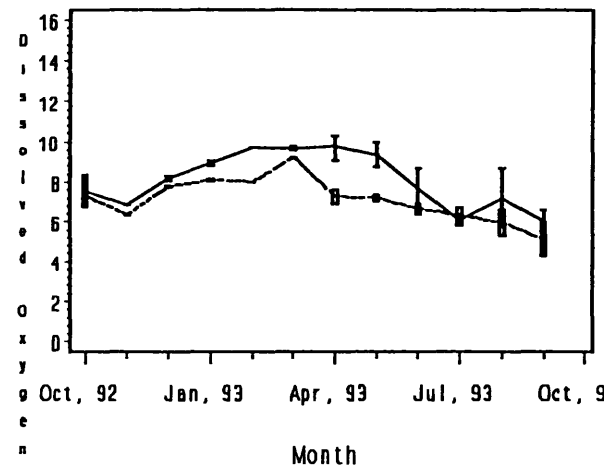
Station Id=CB6.4



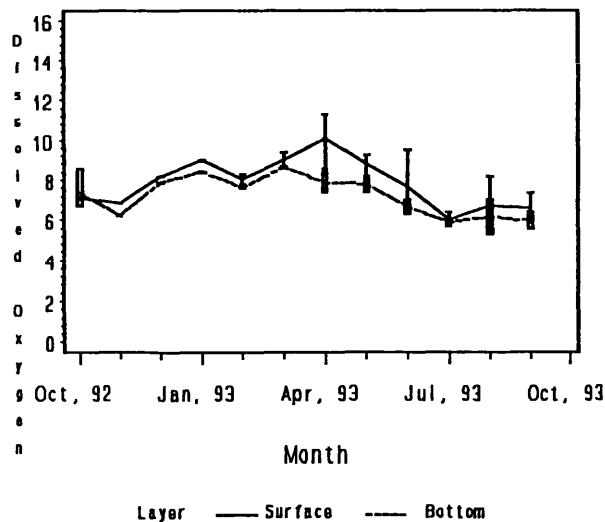
Station Id=CB7.3



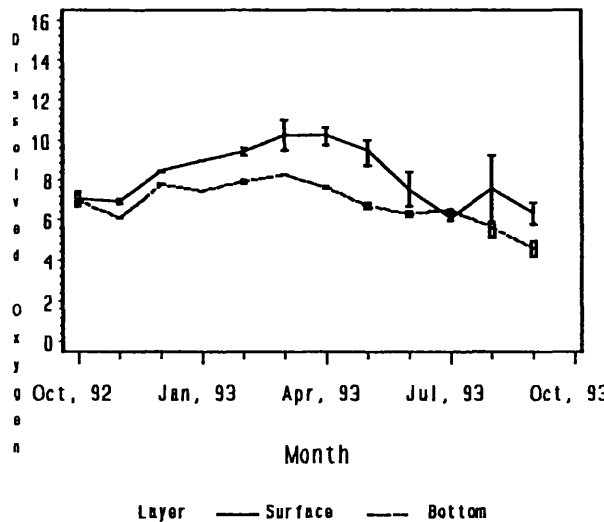
Station Id=CB7.4



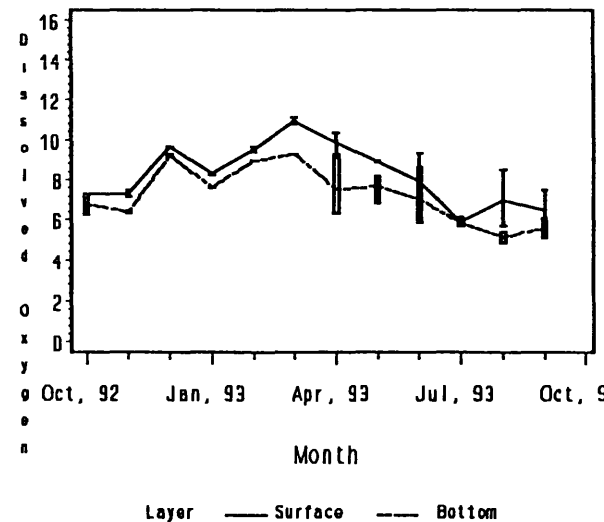
Station Id=CB7.4N



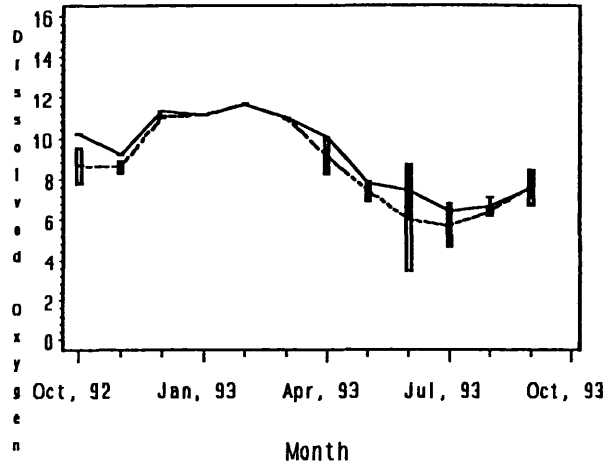
Station Id=CB8.1E



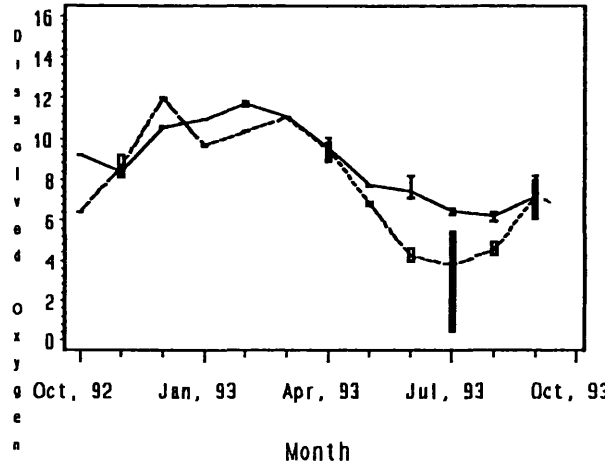
Station Id=CB8.1



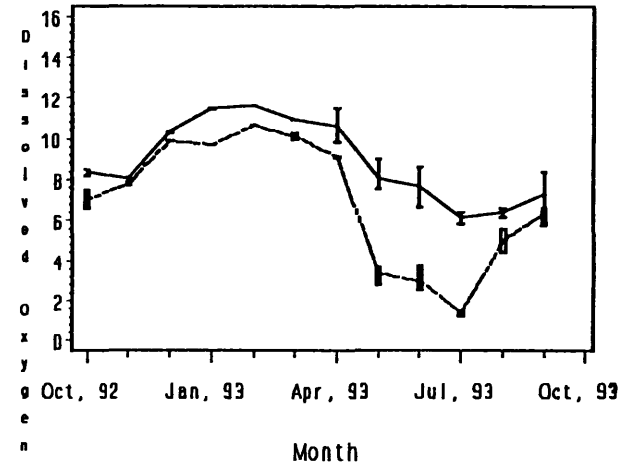
Station Id=EE3.1



Station Id=EE3.2



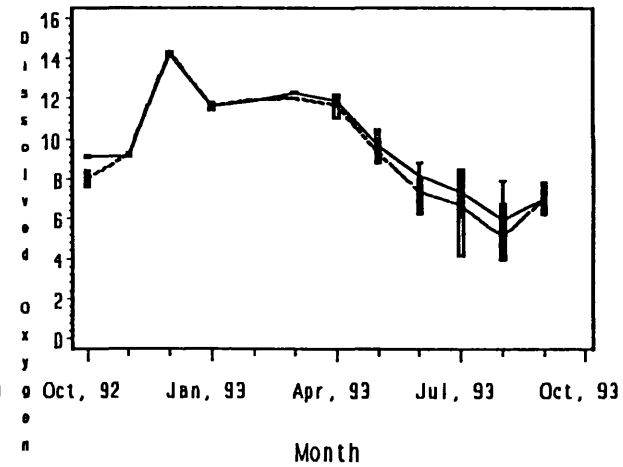
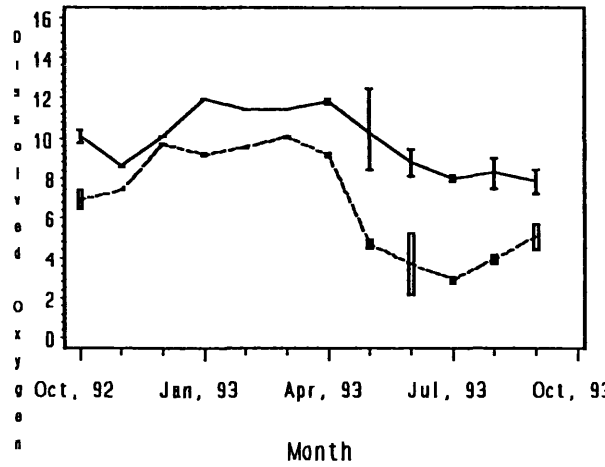
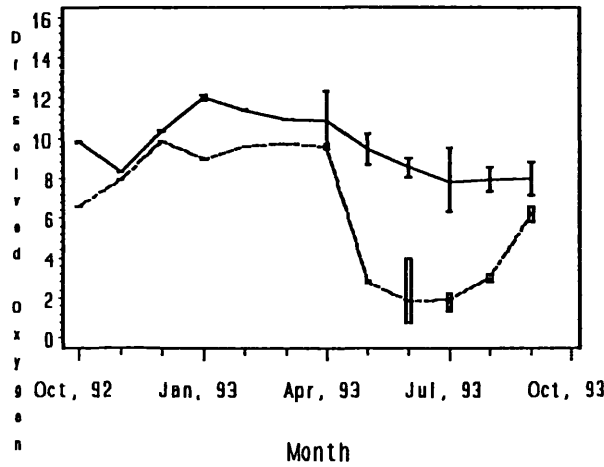
Station Id=CB7.1N



Layer — Surface — Bottom
Station Id=CB7.1

Layer — Surface — Bottom
Station Id=CB7.1S

Layer — Surface — Bottom
Station Id=CB5.4W

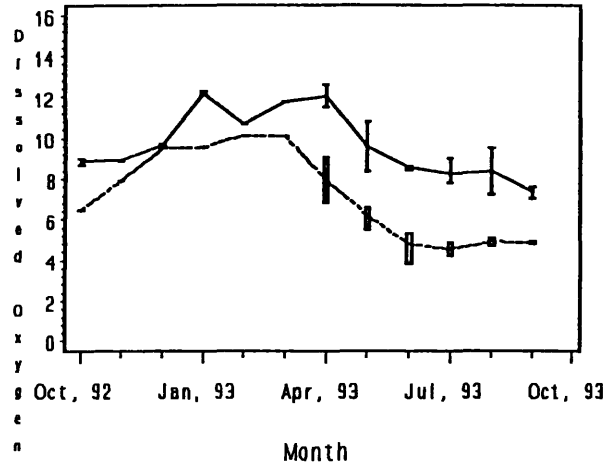


Layer — Surface — Bottom

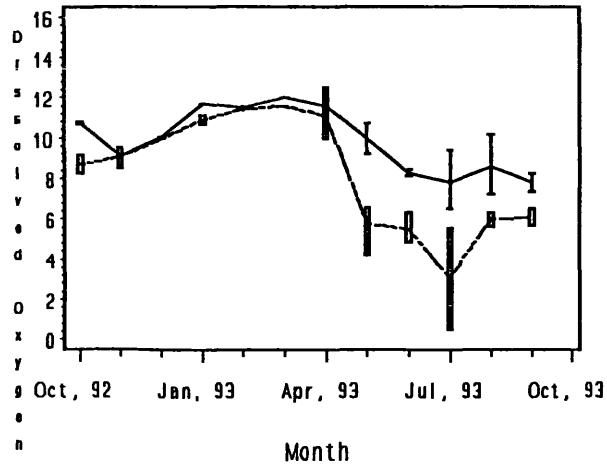
Layer — Surface — Bottom

Layer — Surface — Bottom

Station Id=CB7.2

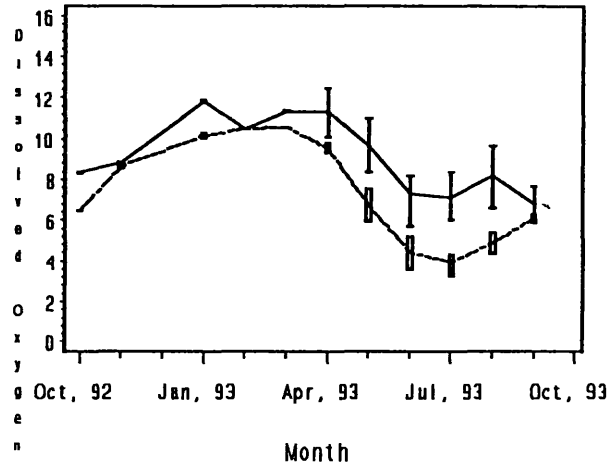


Layer — Surface — Bottom
Station Id=LE3.6

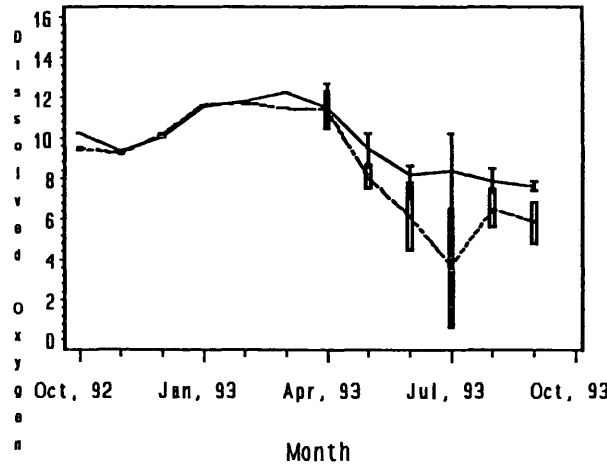


Layer — Surface — Bottom

Station Id=CB7.2E

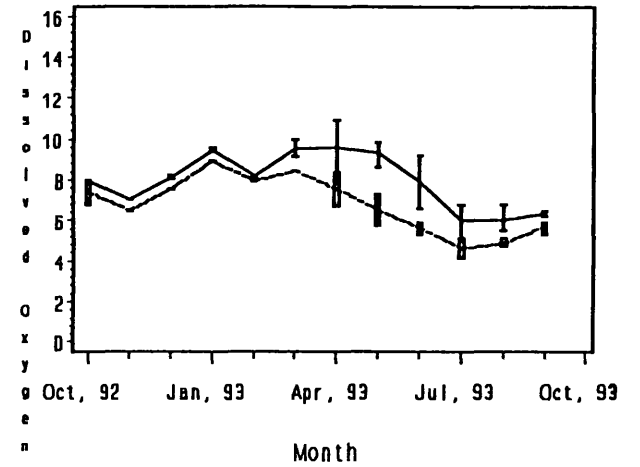


Layer — Surface — Bottom
Station Id=LE3.7



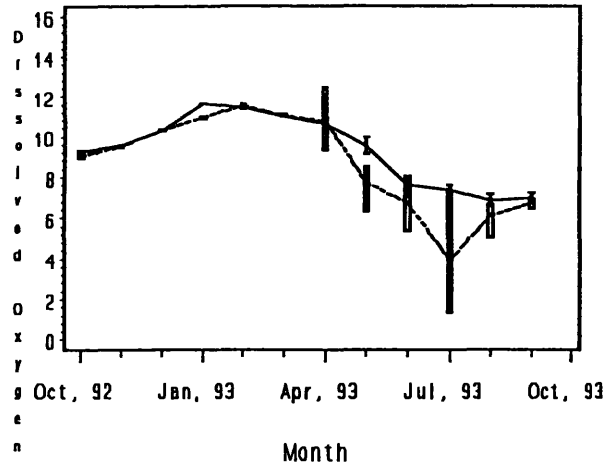
Layer — Surface — Bottom

Station Id=CB7.3E



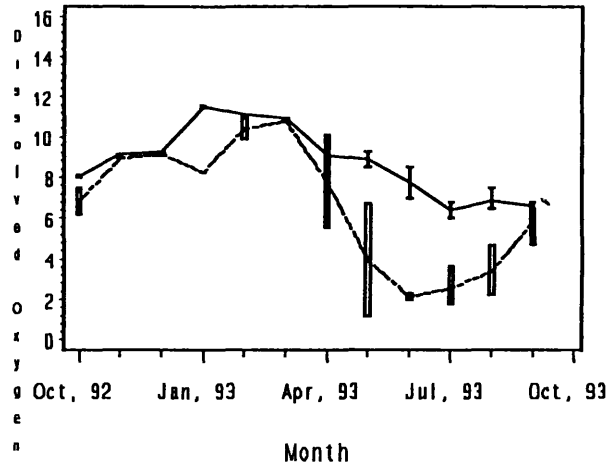
Layer — Surface — Bottom

Station Id=WE4.1



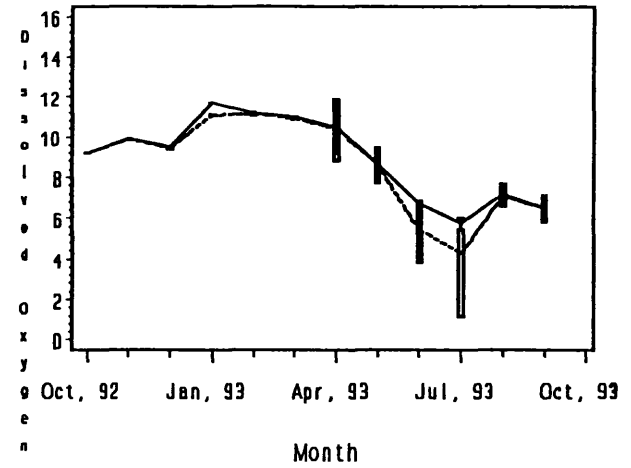
Layer — Surface - - - Bottom
Station Id=WE4.4

Station Id=WE4.2

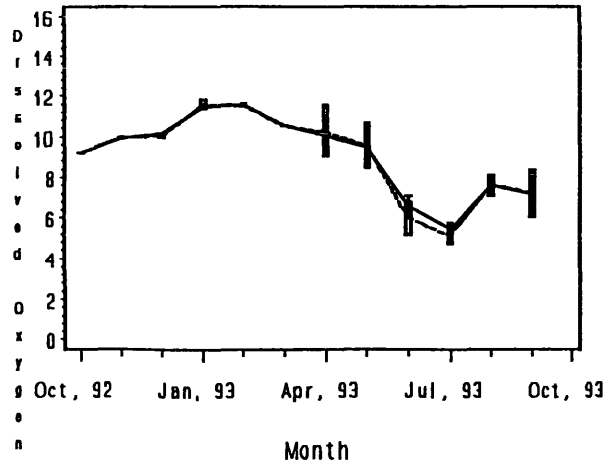


Layer — Surface - - - Bottom
Station Id=LE5.5

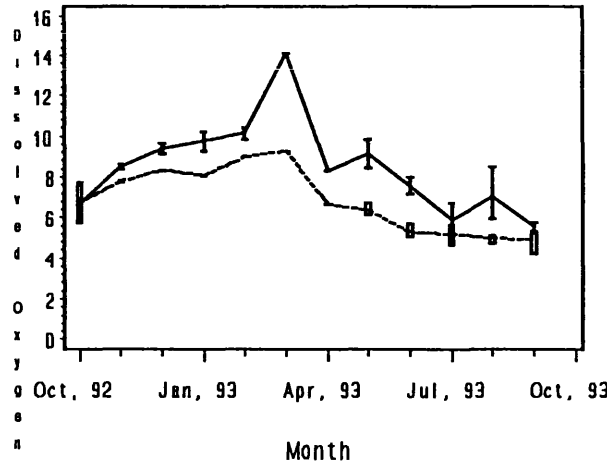
Station Id=WE4.3



Layer — Surface - - - Bottom



Layer — Surface - - - Bottom



Layer — Surface - - - Bottom

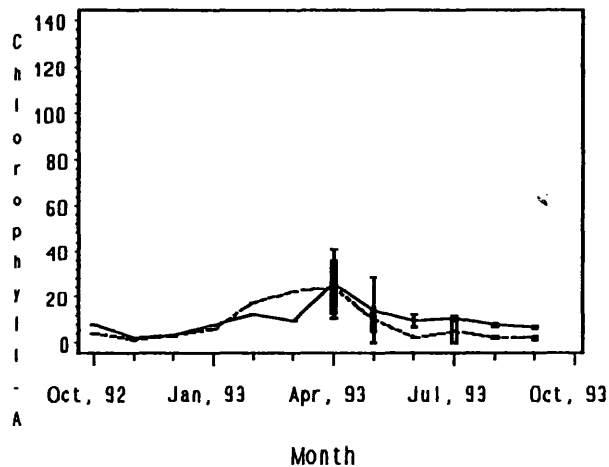
CHLOROPHYLL-A

Values reported as ug/l.

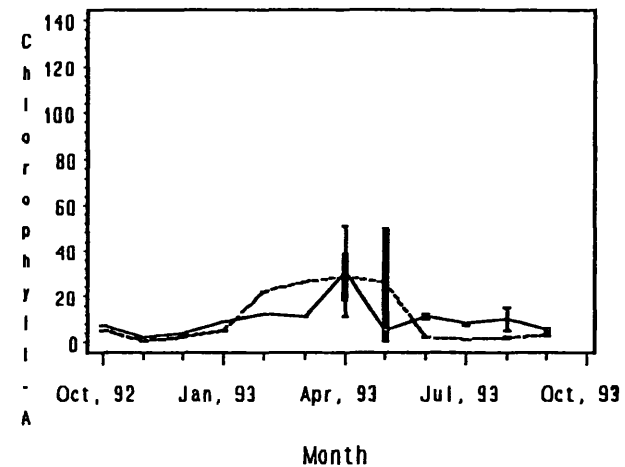
Chlorophyll-A
October, 1992 - September, 1993

	Chlorophyll-A					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	41.00	10.82	0.00	35.78	8.23	0.00
CB5.5.....	50.82	10.45	0.74	49.90	10.58	0.73
CB6.1.....	58.31	13.45	0.68	78.85	14.05	0.76
CB6.2.....	56.92	10.86	0.74	74.95	11.33	0.72
CB6.3.....	51.14	10.66	0.77	80.53	15.70	1.50
CB6.4.....	26.63	8.90	2.62	64.75	12.89	0.71
CB7.3.....	28.02	7.08	2.40	19.31	6.50	1.28
CB7.4.....	19.70	6.67	1.29	17.81	5.30	0.00
CB7.4N.....	26.91	6.56	0.88	14.88	5.38	0.00
CB8.1E.....	33.48	8.88	1.76	20.39	6.90	1.32
CB8.1.....	26.38	10.18	1.55	34.84	9.90	1.28
EE3.1.....	22.90	11.89	2.73	24.61	11.38	0.00
EE3.2.....	47.47	13.39	1.56	47.90	13.01	1.57
CB7.1N.....	68.03	12.02	0.77	72.37	15.91	1.53
CB7.1.....	65.66	12.57	0.00	84.00	15.54	0.65
CB7.1S.....	56.22	10.14	0.80	62.54	11.90	0.00
CB5.4W.....	46.86	11.31	1.59	51.26	13.72	2.13
CB7.2.....	43.57	10.05	0.75	73.66	10.96	0.77
CB7.2E.....	56.39	12.37	0.00	55.11	10.50	0.00
CB7.3E.....	32.63	10.02	2.18	39.73	9.00	0.79
LE3.6.....	53.15	11.78	1.56	129.12	18.44	0.75
LE3.7.....	65.04	13.15	0.79	68.05	14.04	2.84
WE4.1.....	22.70	9.75	0.77	32.55	11.22	2.82
WE4.2.....	20.20	9.19	0.75	60.34	11.68	3.03
WE4.3.....	21.53	8.73	0.00	46.87	11.30	1.54
WE4.4.....	34.15	10.96	0.78	39.41	10.55	2.40
LE5.5.....	36.00	10.59	3.15	55.71	10.82	1.90

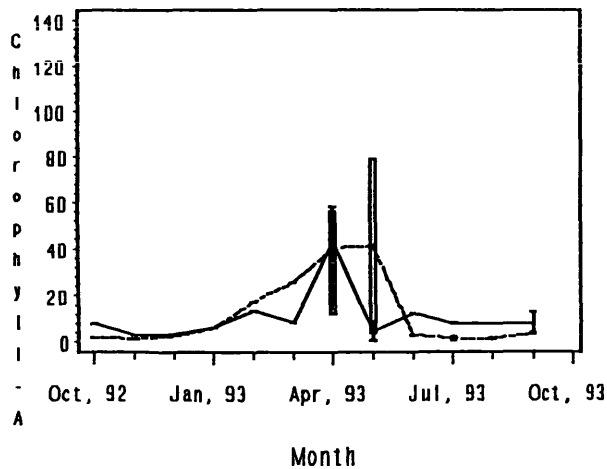
Station Id=CB5.4



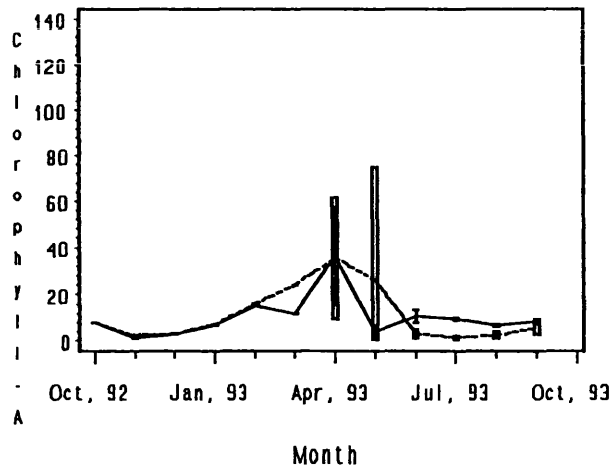
Station Id=CB5.5



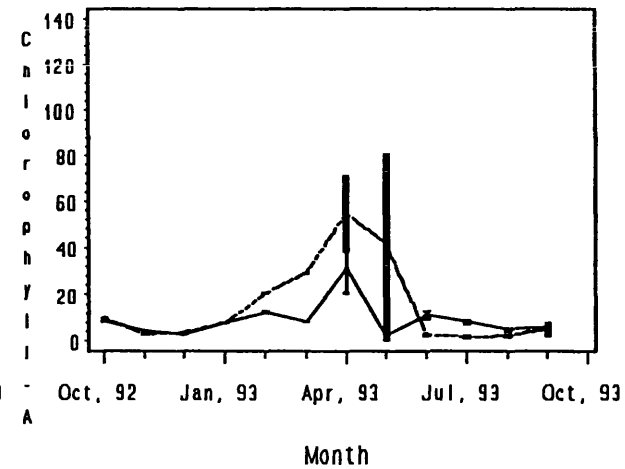
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3



Layer — Surface — Bottom

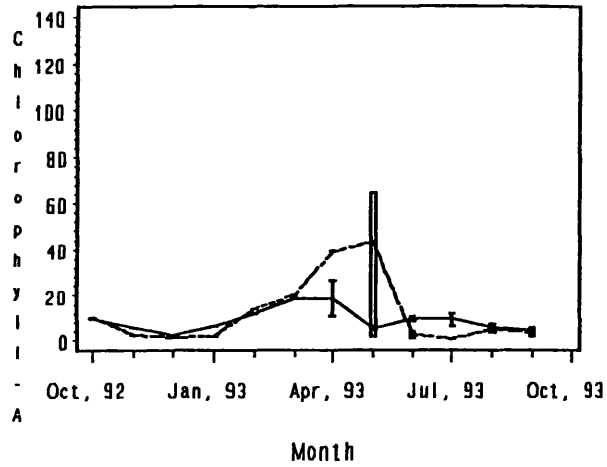
Layer — Surface — Bottom

Layer — Surface — Bottom

Layer — Surface — Bottom

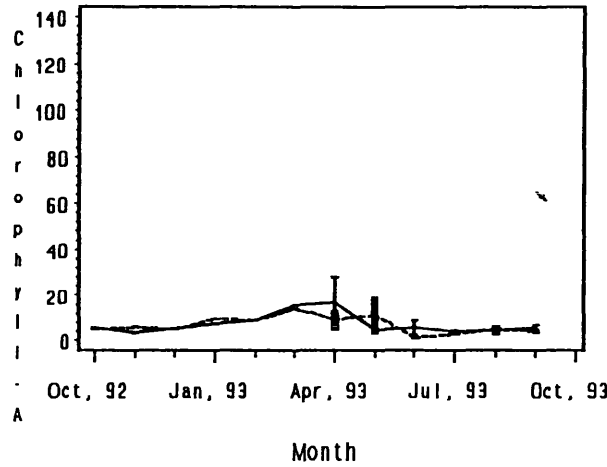
Layer — Surface — Bottom

Station Id=CB6.4



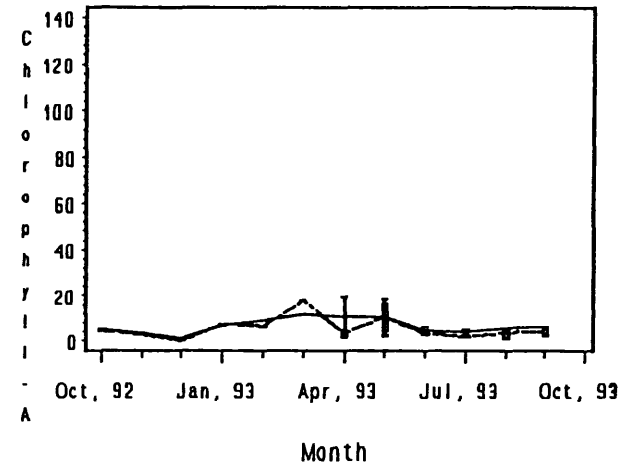
Layer — Surface — Bottom
Station Id=CB7.4N

Station Id=CB7.3

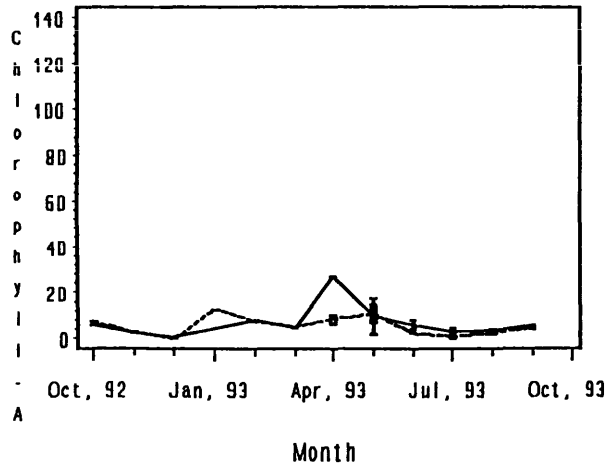


Layer — Surface — Bottom
Station Id=CB8.1E

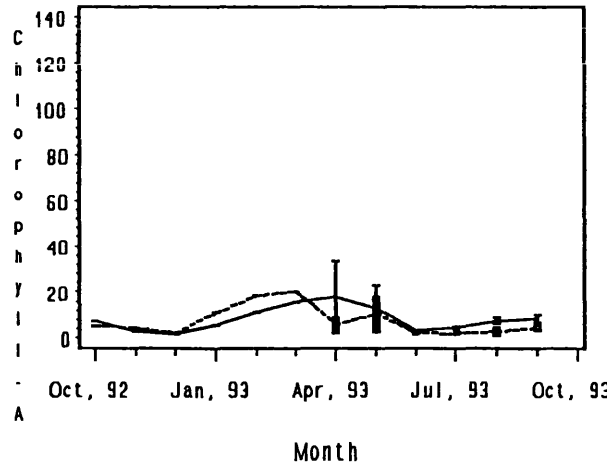
Station Id=CB7.4



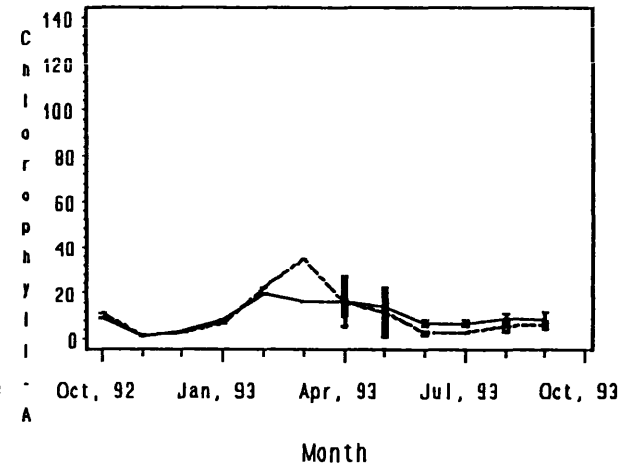
Layer — Surface — Bottom
Station Id=CB8.1



Layer — Surface — Bottom

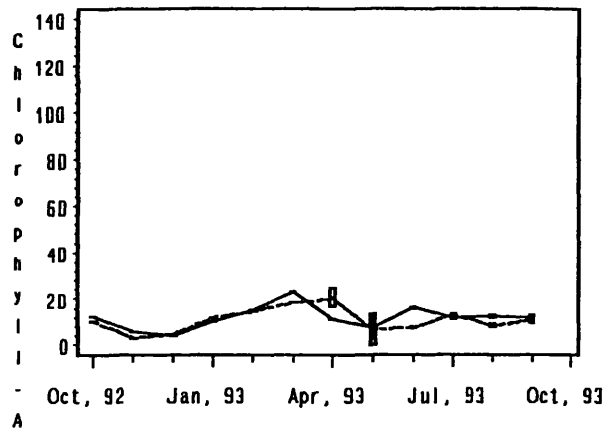


Layer — Surface — Bottom



Layer — Surface — Bottom

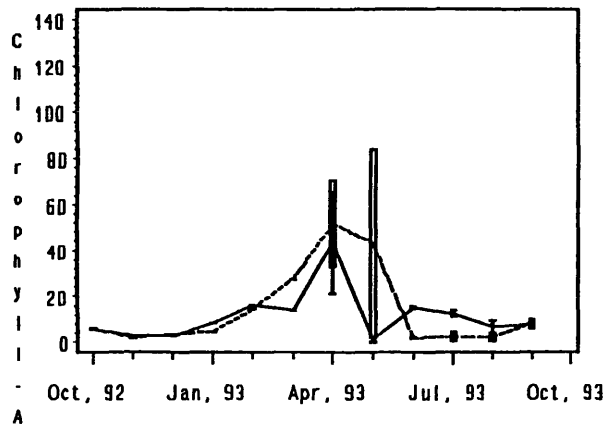
Station Id=EE3.1



Month

Layer — Surface — Bottom

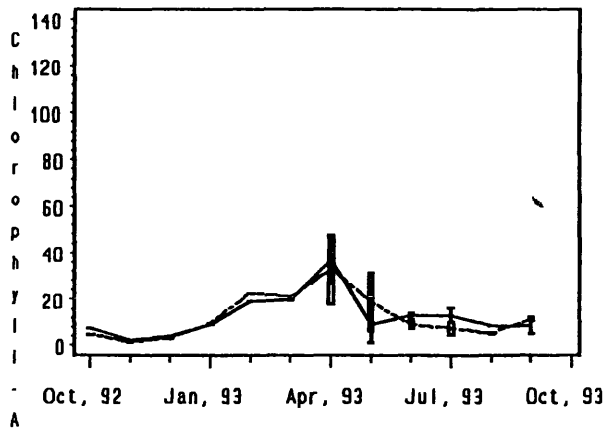
Station Id=CB7.1



Month

Layer — Surface — Bottom

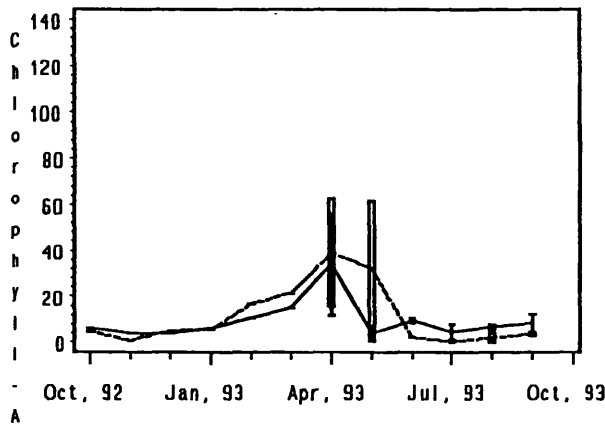
Station Id=EE3.2



Month

Layer — Surface — Bottom

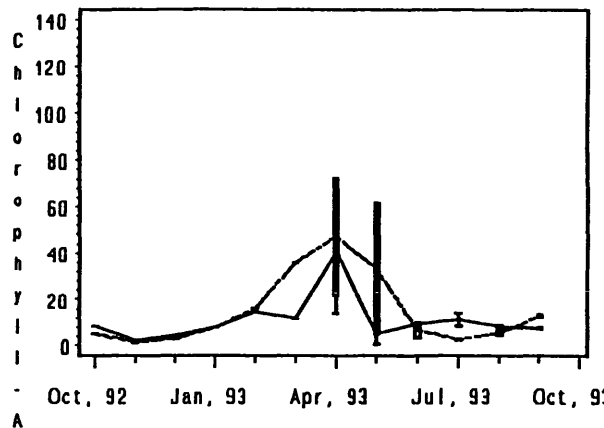
Station Id=CB7.1S



Month

Layer — Surface — Bottom

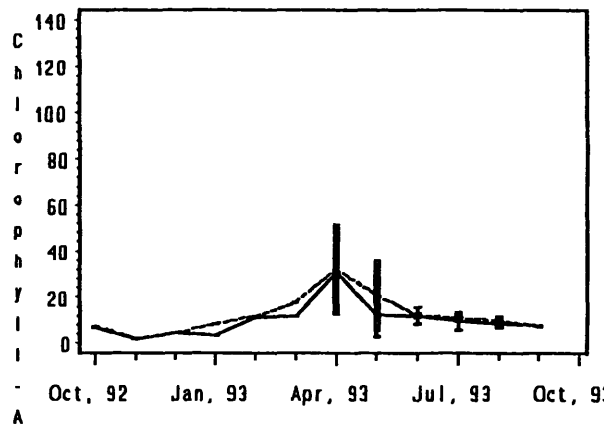
Station Id=CB7.1N



Month

Layer — Surface — Bottom

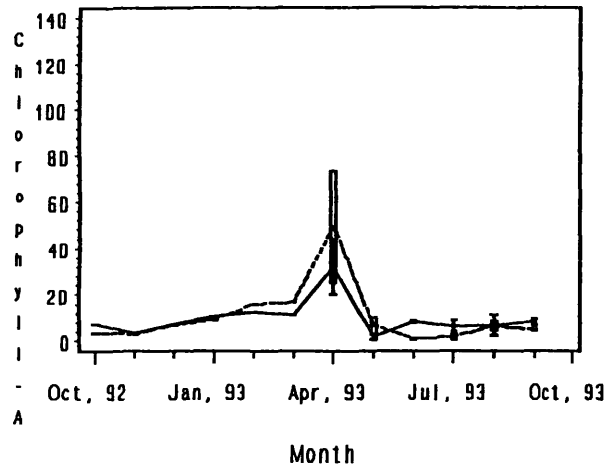
Station Id=CB5.4W



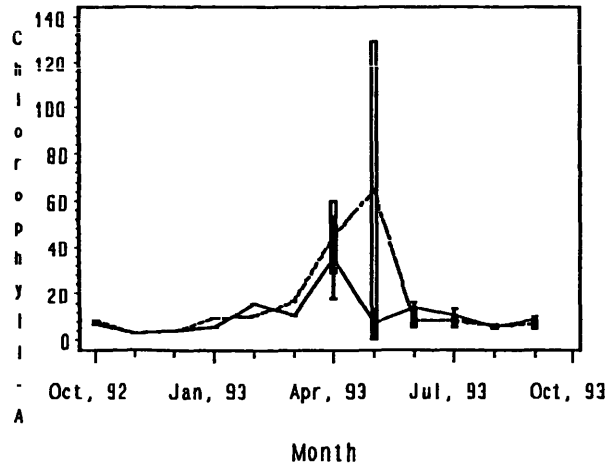
Month

Layer — Surface — Bottom

Station Id=CB7.2

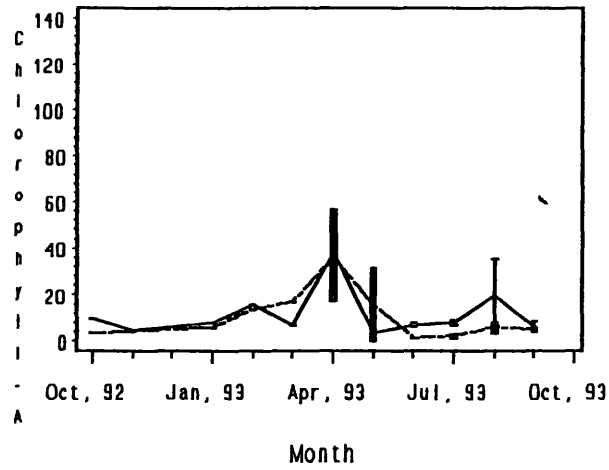


Layer — Surface — Bottom
 Station Id=LE3.6

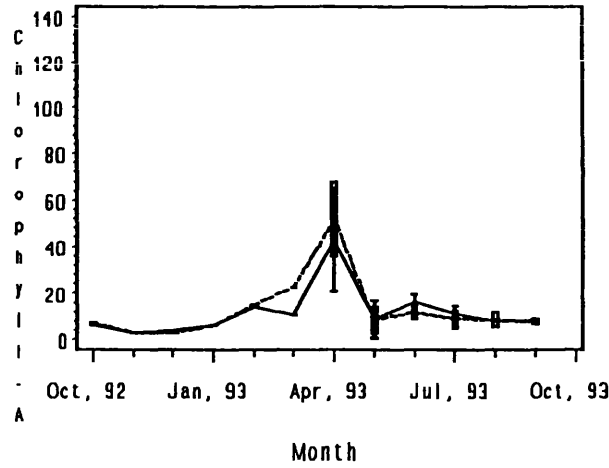


Layer — Surface — Bottom

Station Id=CB7.2E

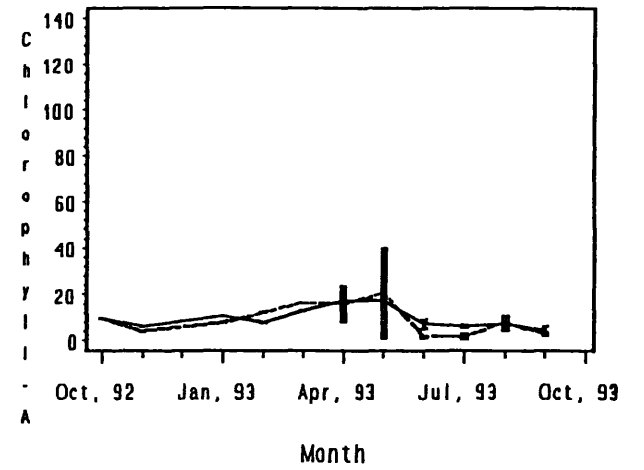


Layer — Surface — Bottom
 Station Id=LE3.7



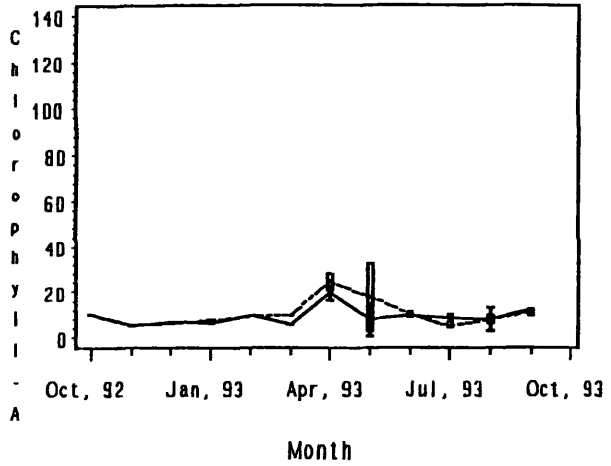
Layer — Surface — Bottom

Station Id=CB7.3E

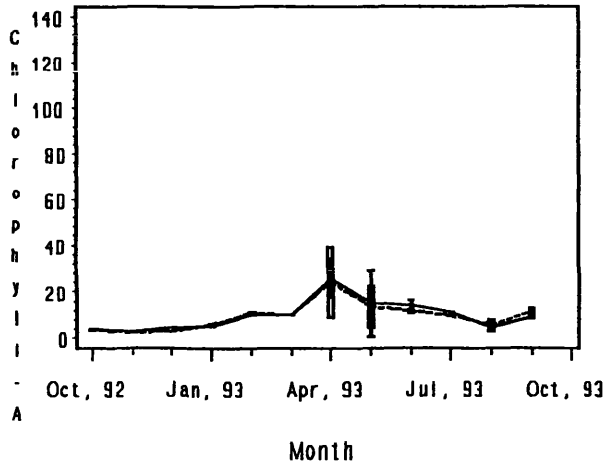


Layer — Surface — Bottom

Station Id=WE4.1

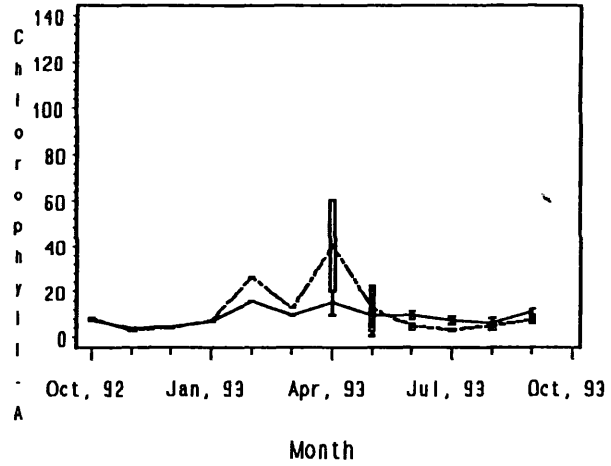


Layer — Surface — Bottom
Station Id=WE4.4

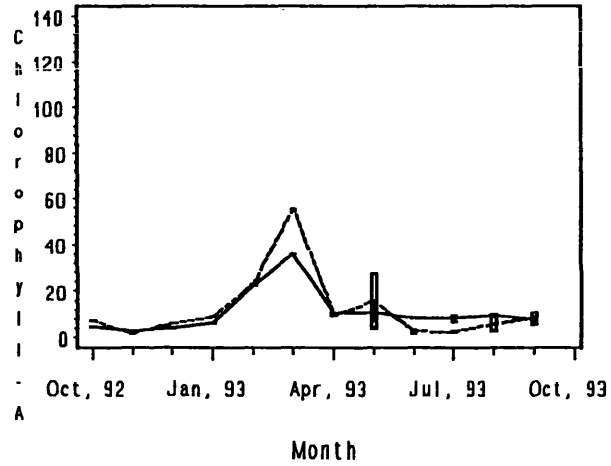


Layer — Surface — Bottom

Station Id=WE4.2

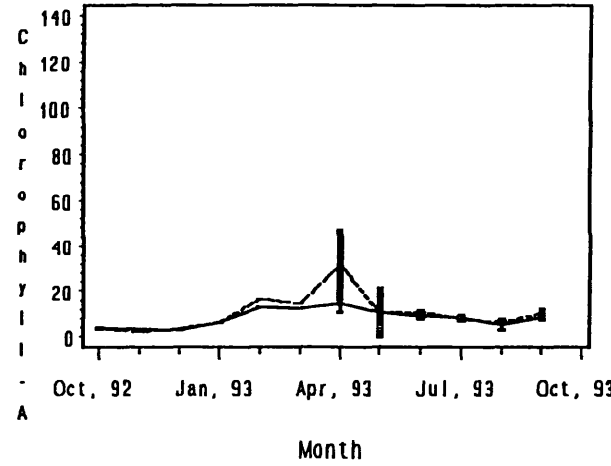


Layer — Surface — Bottom
Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom

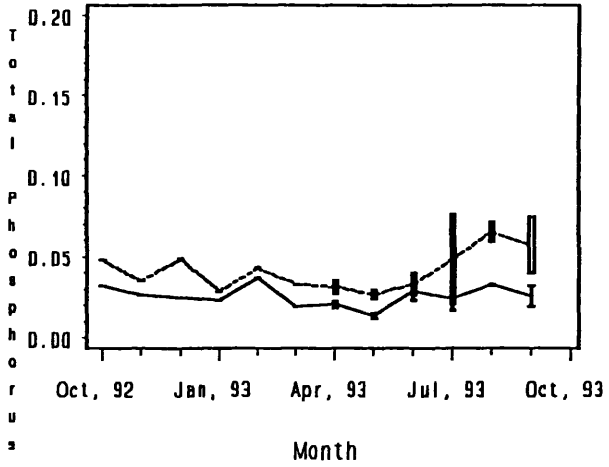
TOTAL PHOSPHORUS

Total Phosphorus is the sum of
Particulate Phosphorus and Total Dissolved Phosphorus.
Values reported as mg/l.

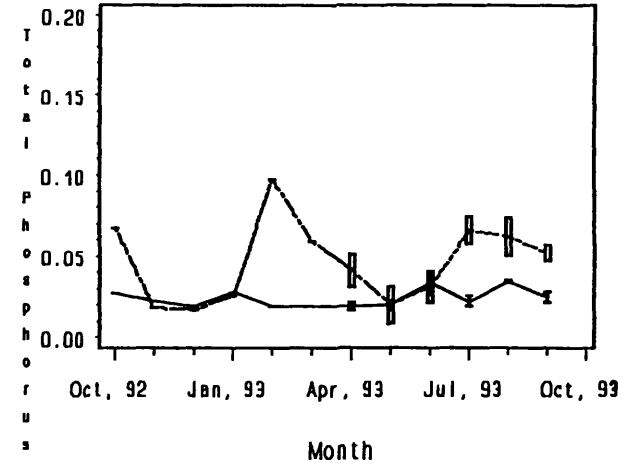
Total Phosphorus
October, 1992 - September, 1993

	Total Phosphorus (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.0372	0.0252	0.0119	0.0758	0.0423	0.0212
CB5.5.....	0.0396	0.0251	0.0171	0.0975	0.0462	0.0092
CB6.1.....	0.0349	0.0224	0.0140	0.0632	0.0367	0.0154
CB6.2.....	0.0358	0.0241	0.0116	0.0669	0.0342	0.0168
CB6.3.....	0.0501	0.0264	0.0102	0.0756	0.0440	0.0215
CB6.4.....	0.0550	0.0291	0.0155	0.0630	0.0373	0.0210
CB7.3.....	0.0390	0.0259	0.0185	0.0510	0.0354	0.0225
CB7.4.....	0.0470	0.0270	0.0125	0.1520	0.0470	0.0215
CB7.4N.....	0.0450	0.0283	0.0155	0.1830	0.0411	0.0220
CB8.1E.....	0.0410	0.0300	0.0190	0.0995	0.0501	0.0190
CB8.1.....	0.0490	0.0338	0.0210	0.0670	0.0439	0.0230
EE3.1.....	0.1243	0.0451	0.0209	0.0662	0.0387	0.0168
EE3.2.....	0.0448	0.0315	0.0200	0.0807	0.0422	0.0246
CB7.1N.....	0.0389	0.0269	0.0162	0.0948	0.0466	0.0237
CB7.1.....	0.0395	0.0255	0.0154	0.0893	0.0430	0.0184
CB7.1S.....	0.0353	0.0226	0.0113	0.0736	0.0365	0.0120
CB5.4W.....	0.0499	0.0274	0.0179	0.0416	0.0290	0.0185
CB7.2.....	0.0395	0.0237	0.0105	0.1036	0.0514	0.0204
CB7.2E.....	0.1606	0.0336	0.0138	0.0652	0.0319	0.0146
CB7.3E.....	0.0390	0.0285	0.0170	0.0910	0.0425	0.0255
LE3.6.....	0.0366	0.0252	0.0158	0.0524	0.0306	0.0130
LE3.7.....	0.0440	0.0268	0.0157	0.0461	0.0272	0.0152
WE4.1.....	0.0393	0.0278	0.0137	0.0649	0.0323	0.0205
WE4.2.....	0.0426	0.0320	0.0219	0.0979	0.0485	0.0286
WE4.3.....	0.0493	0.0322	0.0214	0.0447	0.0311	0.0175
WE4.4.....	0.0590	0.0333	0.0174	0.0600	0.0348	0.0173
LE5.5.....	0.0940	0.0442	0.0230	0.1300	0.0597	0.0360

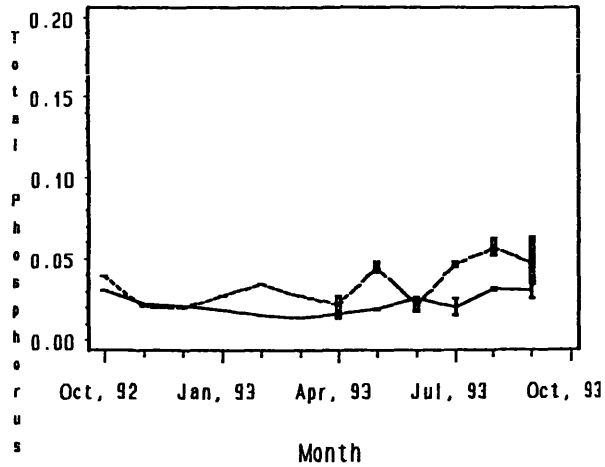
Station Id=CB5.4



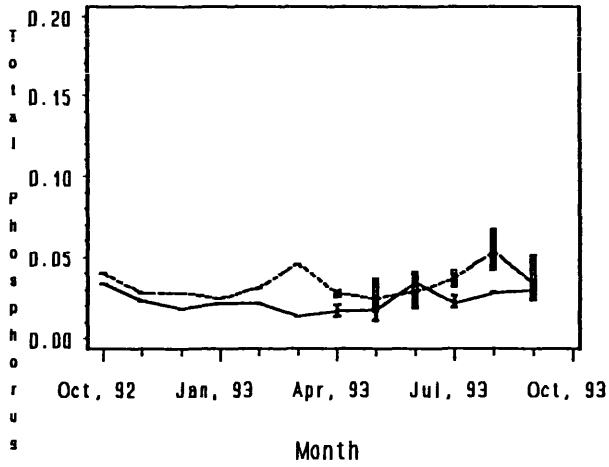
Station Id=CB5.5



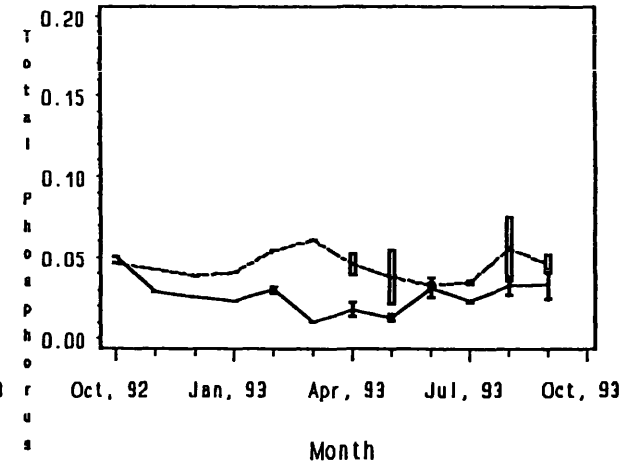
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3



Layer — Surface — Bottom

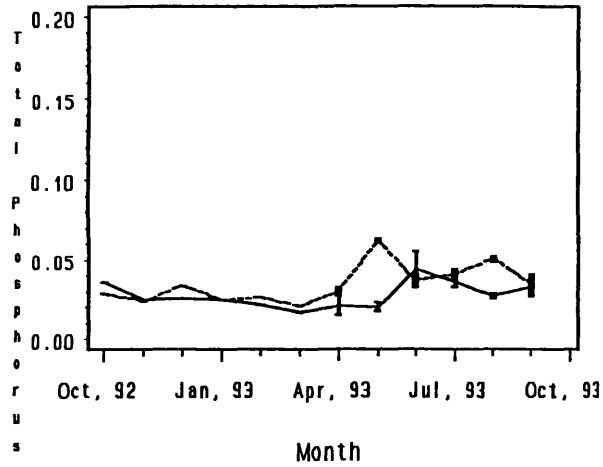
Layer — Surface — Bottom

Layer — Surface — Bottom

Layer — Surface — Bottom

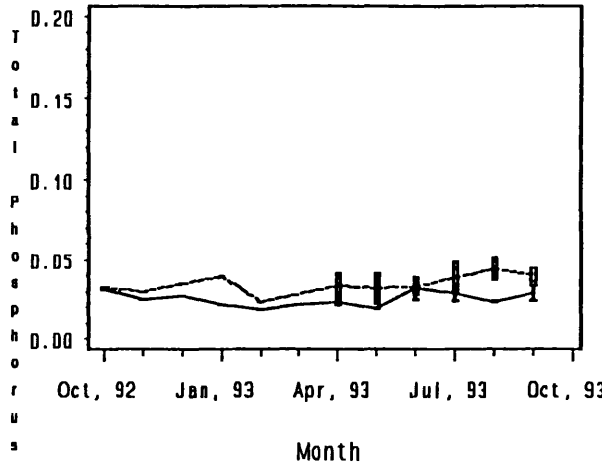
Layer — Surface — Bottom

Station Id=CB6.4



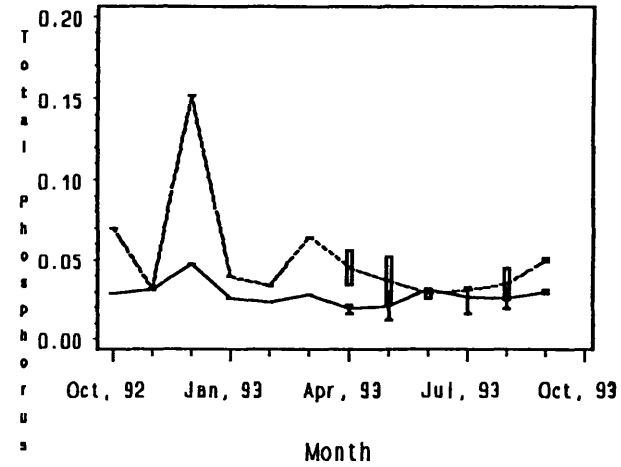
Layer — Surface — Bottom
Station Id=CB7.4N

Station Id=CB7.3

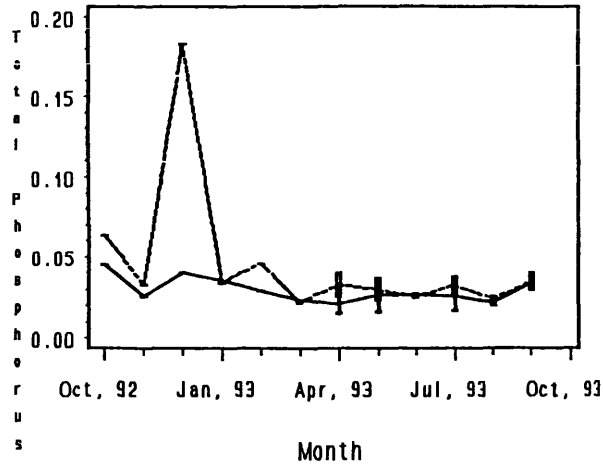


Layer — Surface — Bottom
Station Id=CB8.1E

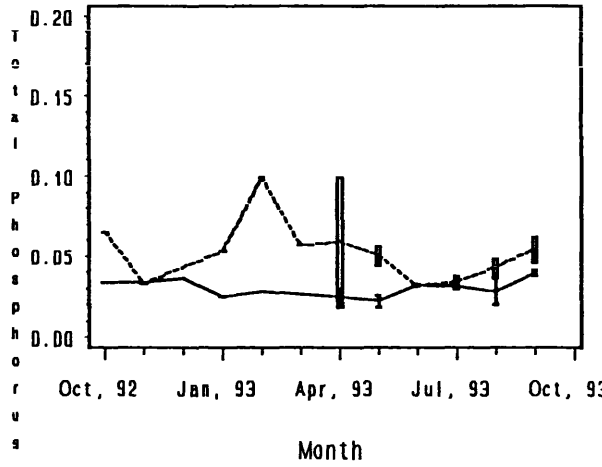
Station Id=CB7.4



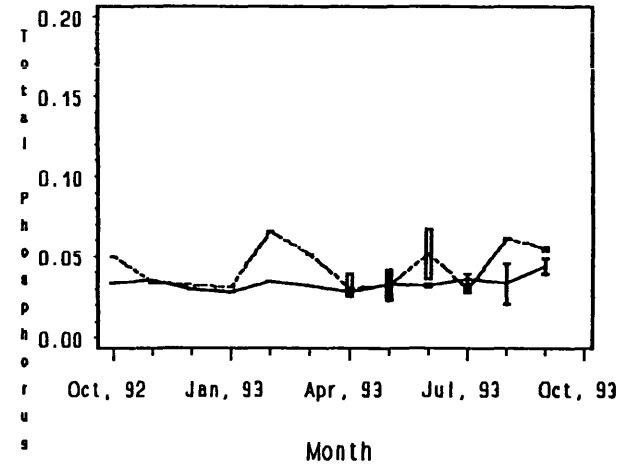
Layer — Surface — Bottom
Station Id=CB8.1



Layer — Surface — Bottom

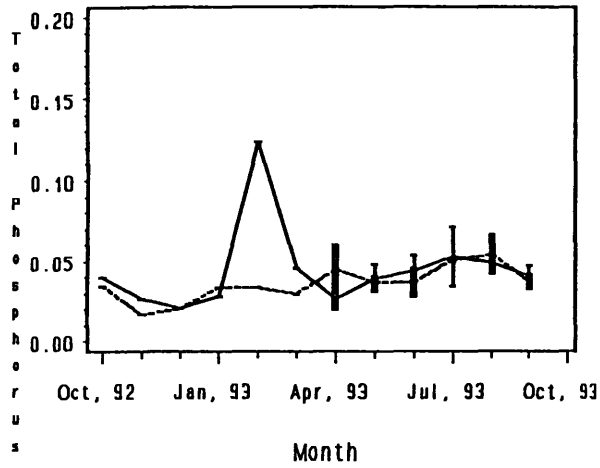


Layer — Surface — Bottom

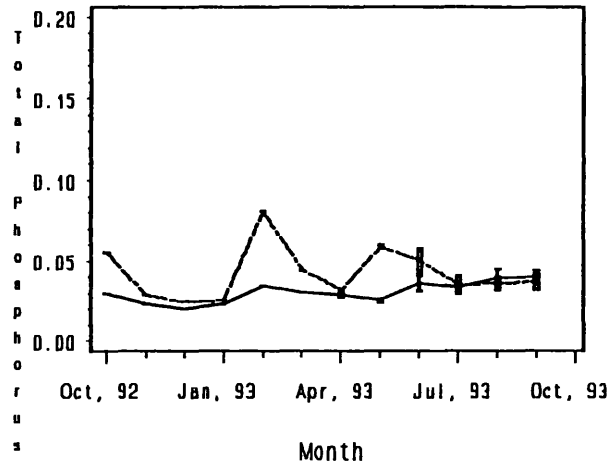


Layer — Surface — Bottom

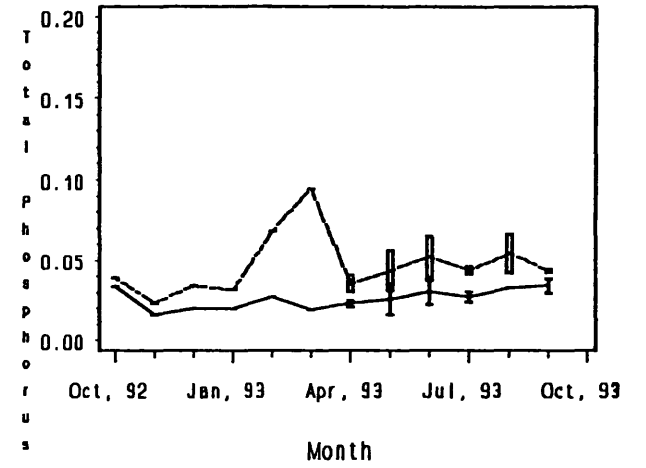
Station Id=EE3.1



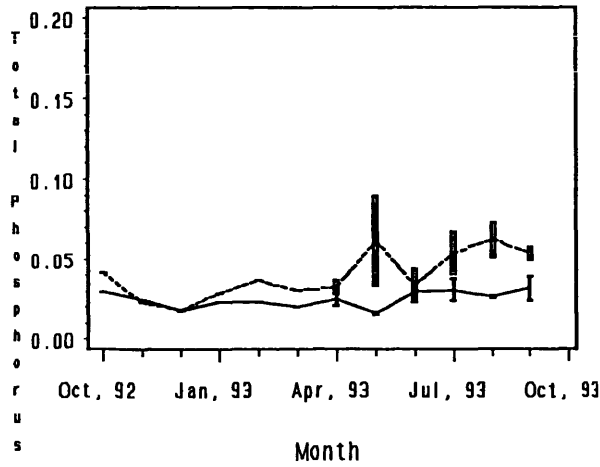
Station Id=EE3.2



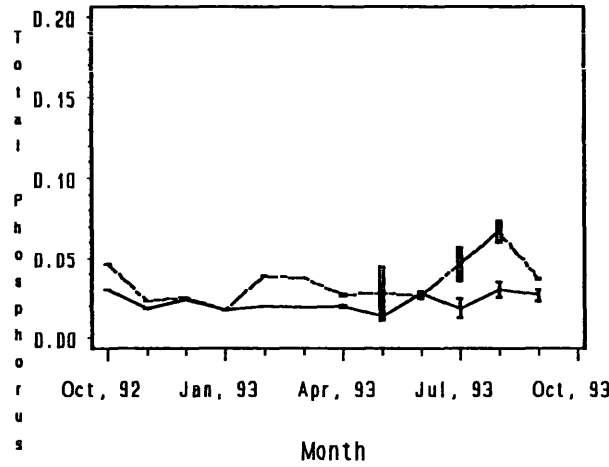
Station Id=CB7.1N



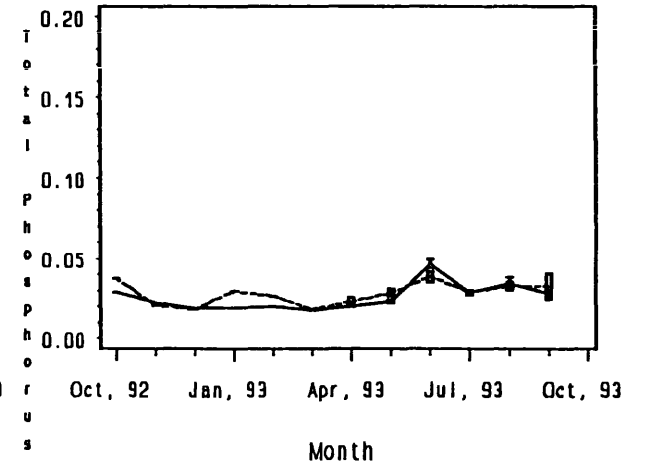
Layer — Surface — Bottom
Station Id=CB7.1



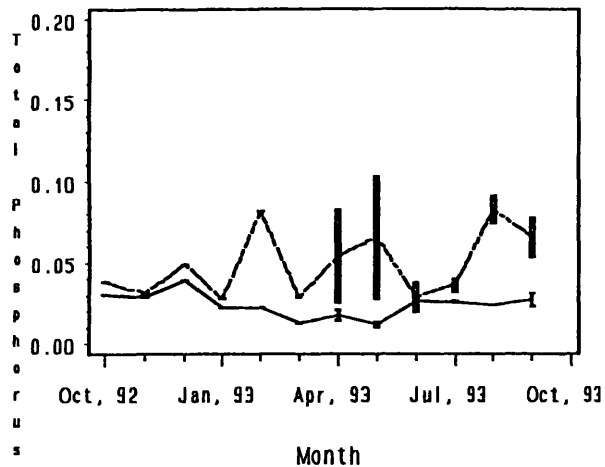
Layer — Surface — Bottom
Station Id=CB7.1S



Layer — Surface — Bottom
Station Id=CB5.4W

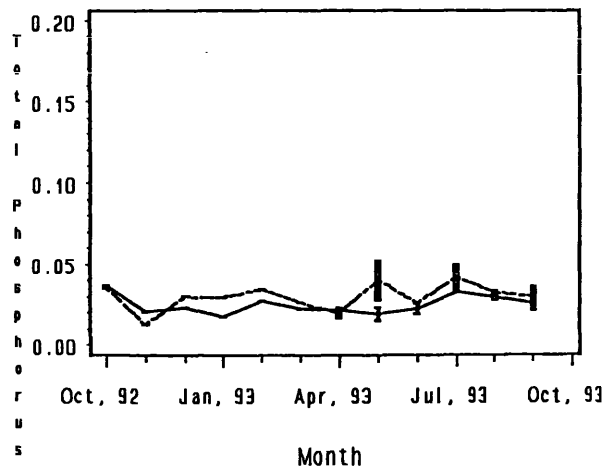


Station Id=CB7.2



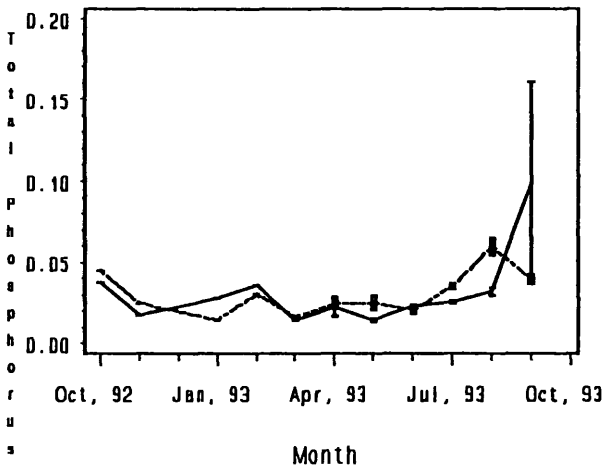
Layer — Surface — Bottom

Station Id=LE3.6



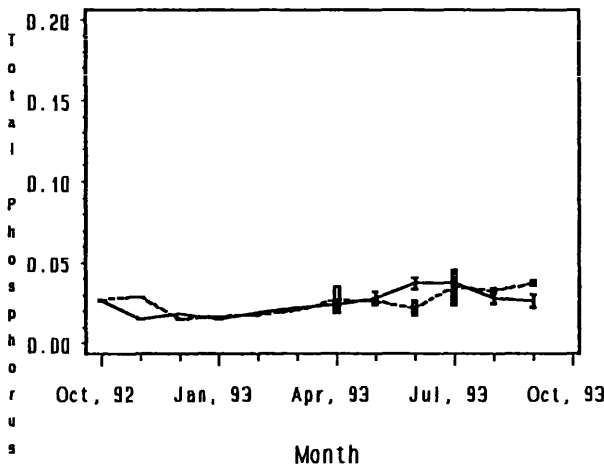
Layer — Surface — Bottom

Station Id=CB7.2E



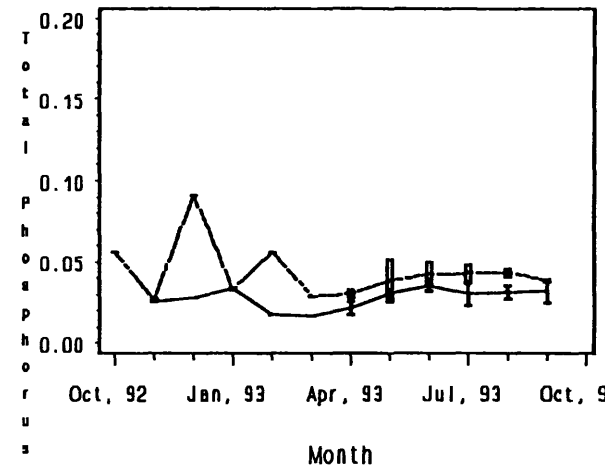
Layer — Surface — Bottom

Station Id=LE3.7



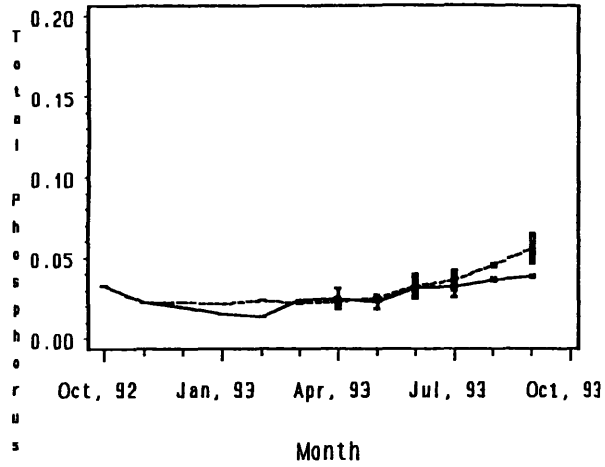
Layer — Surface — Bottom

Station Id=CB7.3E

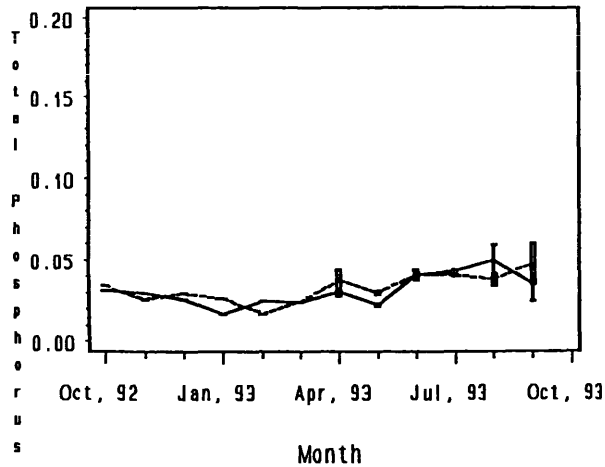


Layer — Surface — Bottom

Station Id=WE4.1

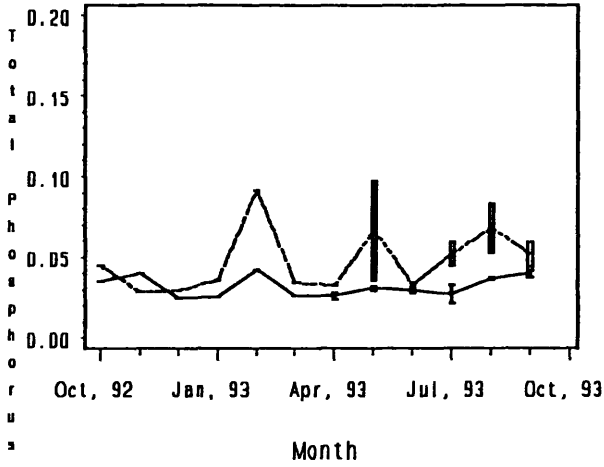


Layer — Surface — Bottom
Station Id=WE4.4

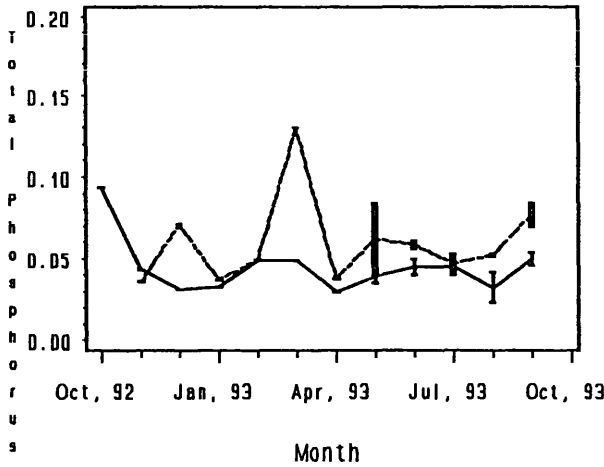


Layer — Surface — Bottom

Station Id=WE4.2

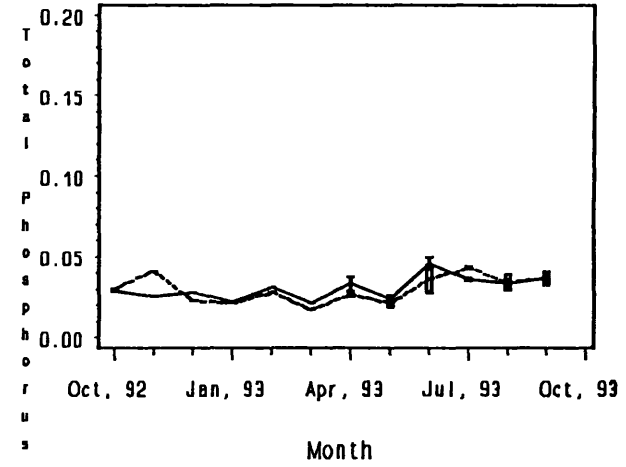


Layer — Surface — Bottom
Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom

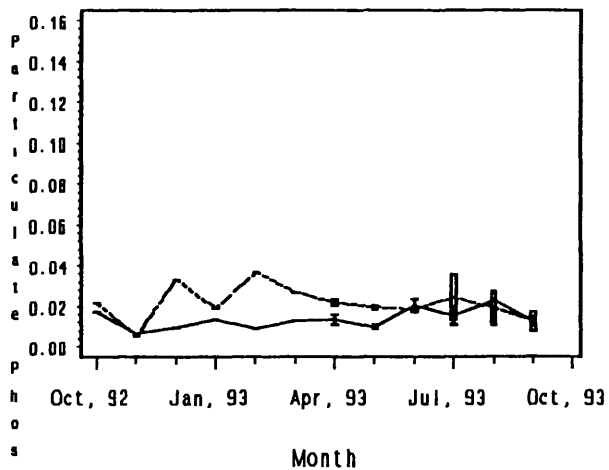
PARTICULATE PHOSPHORUS

Values reported as mg/l.

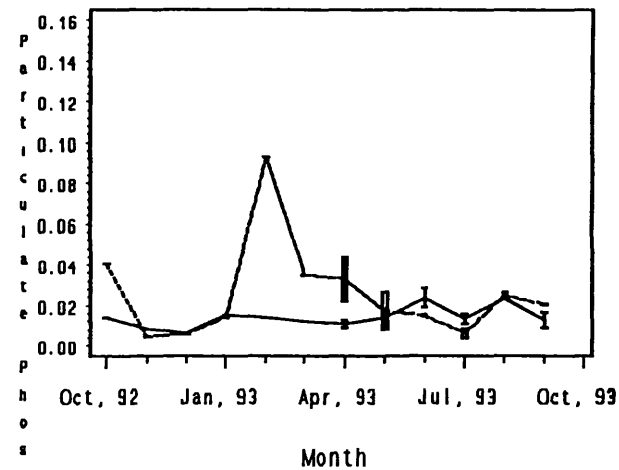
Particulate Phosphorus
October, 1992 - September, 1993

	Particulate Phosphorus (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.0239	0.0145	0.0063	0.0370	0.0209	0.0052
CB5.5.....	0.0286	0.0153	0.0065	0.0925	0.0239	0.0041
CB6.1.....	0.0224	0.0138	0.0081	0.0408	0.0172	0.0067
CB6.2.....	0.0258	0.0147	0.0056	0.0400	0.0183	0.0006
CB6.3.....	0.0275	0.0158	0.0050	0.0597	0.0286	0.0077
CB6.4.....	0.0440	0.0202	0.0110	0.0550	0.0231	0.0120
CB7.3.....	0.0310	0.0174	0.0090	0.0360	0.0216	0.0080
CB7.4.....	0.0260	0.0169	0.0080	0.1300	0.0329	0.0090
CB7.4N.....	0.0310	0.0173	0.0080	0.1600	0.0297	0.0100
CB8.1E.....	0.0270	0.0187	0.0080	0.0970	0.0348	0.0110
CB8.1.....	0.0340	0.0213	0.0100	0.0630	0.0289	0.0120
EE3.1.....	0.0450	0.0259	0.0109	0.0512	0.0262	0.0058
EE3.2.....	0.0318	0.0203	0.0061	0.0737	0.0308	0.0065
CB7.1N.....	0.0282	0.0163	0.0032	0.0898	0.0326	0.0087
CB7.1.....	0.0217	0.0156	0.0059	0.0833	0.0256	0.0070
CB7.1S.....	0.0233	0.0134	0.0053	0.0378	0.0206	0.0044
CB5.4W.....	0.0389	0.0183	0.0084	0.0296	0.0182	0.0070
CB7.2.....	0.0265	0.0142	0.0055	0.0956	0.0350	0.0063
CB7.2E.....	0.1506	0.0218	0.0041	0.0383	0.0179	0.0041
CB7.3E.....	0.0280	0.0200	0.0110	0.0710	0.0284	0.0090
LE3.6.....	0.0240	0.0161	0.0068	0.0464	0.0205	0.0090
LE3.7.....	0.0330	0.0168	0.0057	0.0281	0.0168	0.0062
WE4.1.....	0.0289	0.0167	0.0054	0.0389	0.0193	0.0085
WE4.2.....	0.0286	0.0183	0.0099	0.0889	0.0309	0.0096
WE4.3.....	0.0286	0.0194	0.0069	0.0317	0.0194	0.0082
WE4.4.....	0.0510	0.0222	0.0099	0.0430	0.0232	0.0099
LE5.5.....	0.0460	0.0274	0.0110	0.1240	0.0425	0.0160

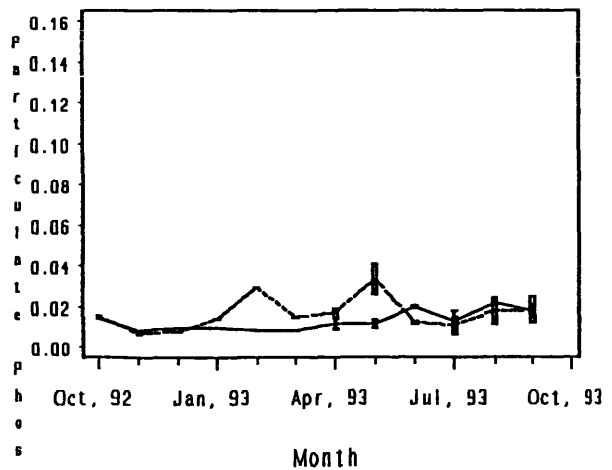
Station Id=CB5.4



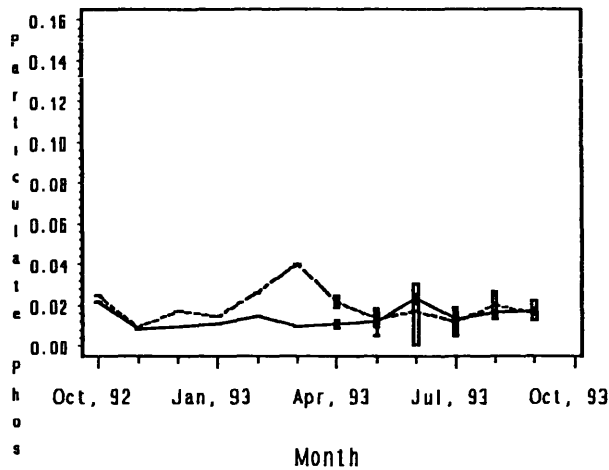
Station Id=CB5.5



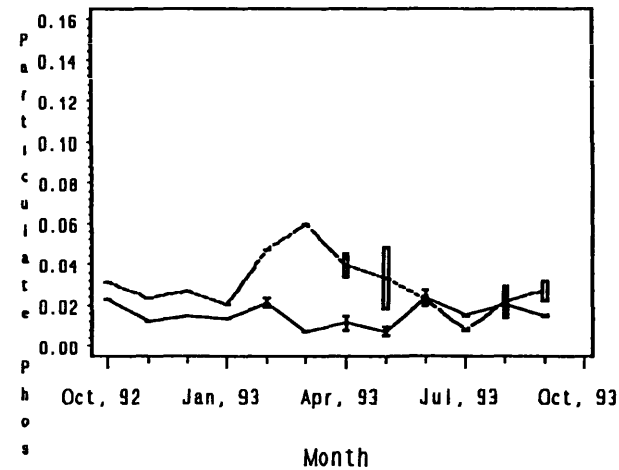
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3

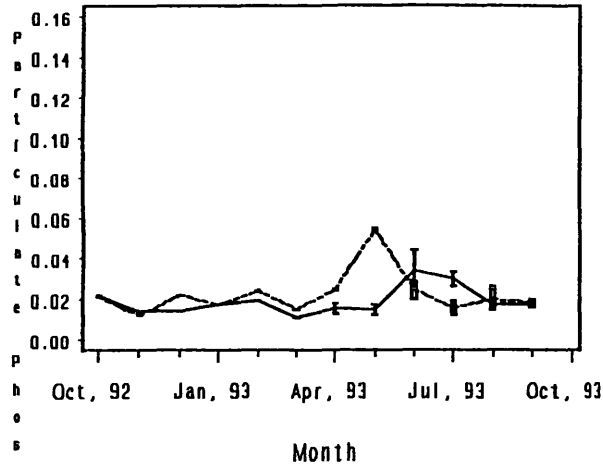


Layer — Surface - - - Bottom

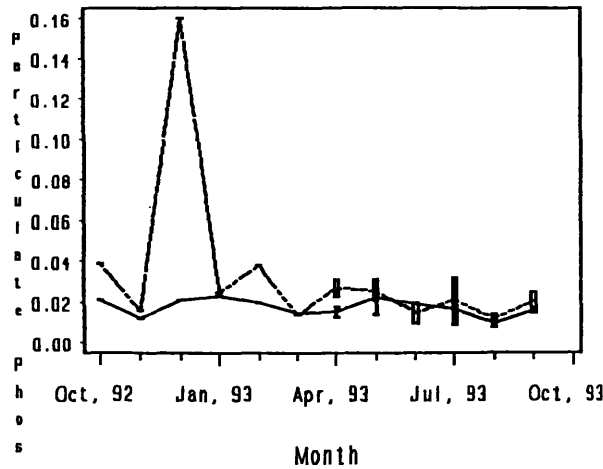
Layer — Surface - - - Bottom

Layer — Surface - - - Bottom

Station Id=CB6.4

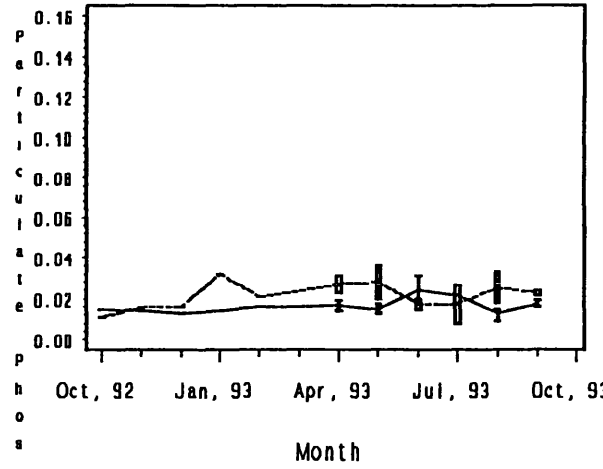


Layer — Surface — Bottom
Station Id=CB7.4N

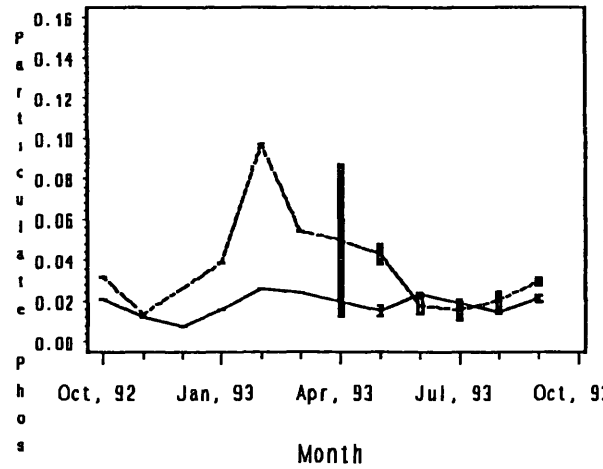


Layer — Surface — Bottom

Station Id=CB7.3

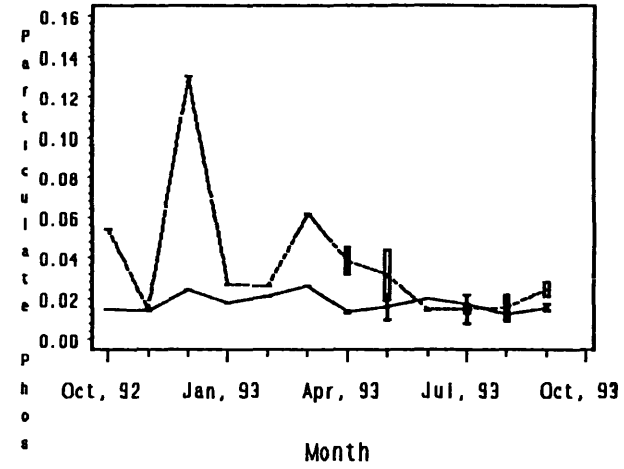


Layer — Surface — Bottom
Station Id=CB8.1E

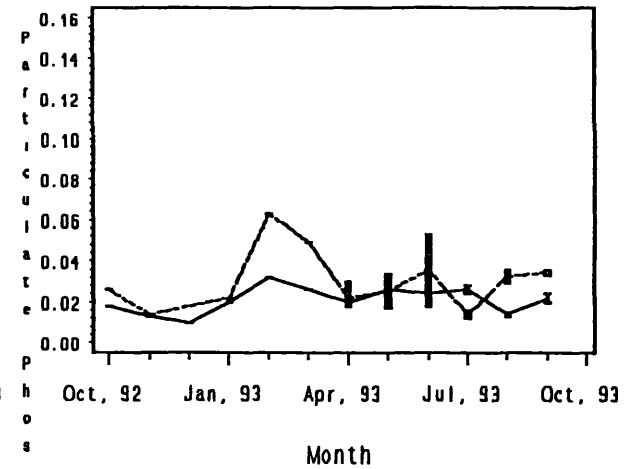


Layer — Surface — Bottom

Station Id=CB7.4

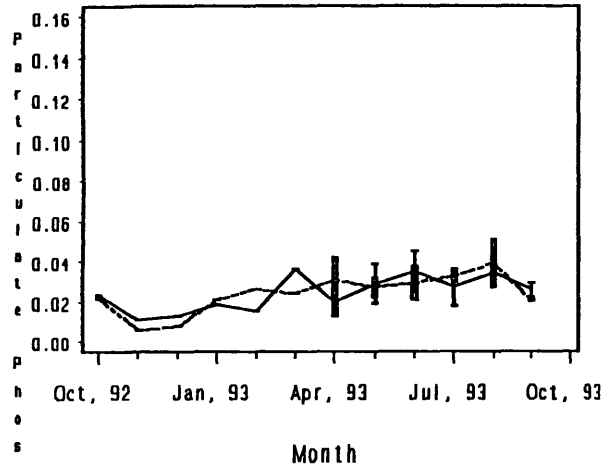


Layer — Surface — Bottom
Station Id=CB8.1

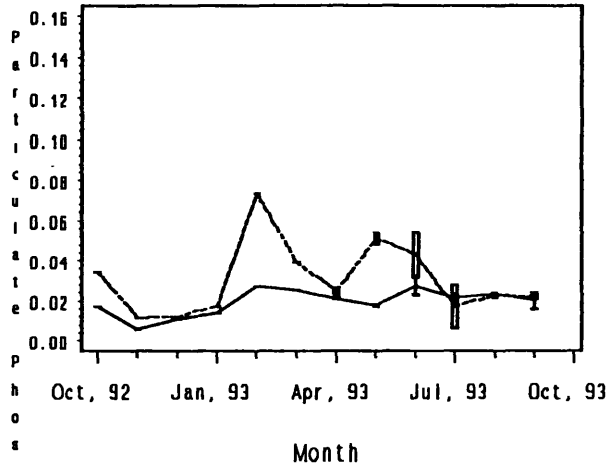


Layer — Surface — Bottom

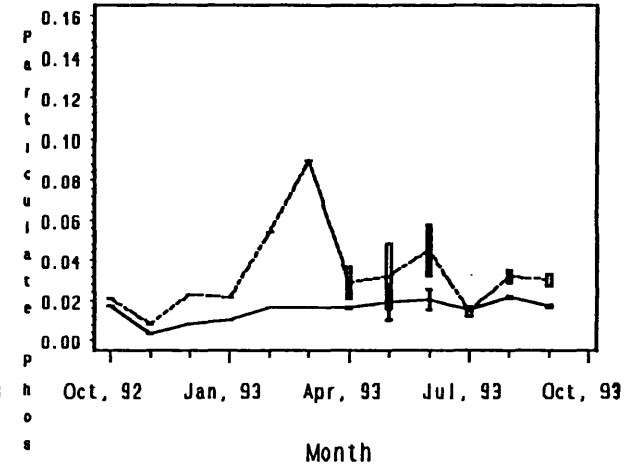
Station Id=EE3.1



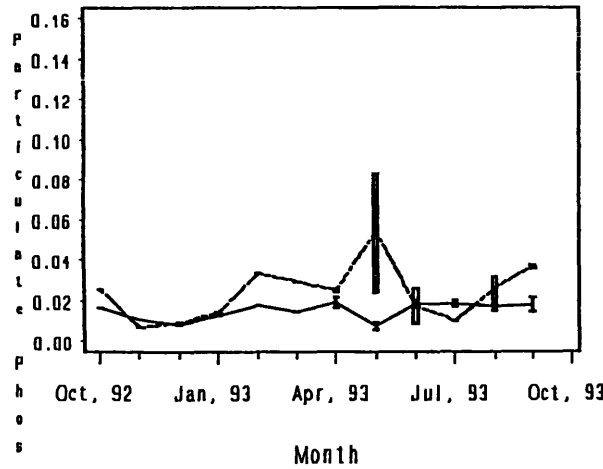
Station Id=EE3.2



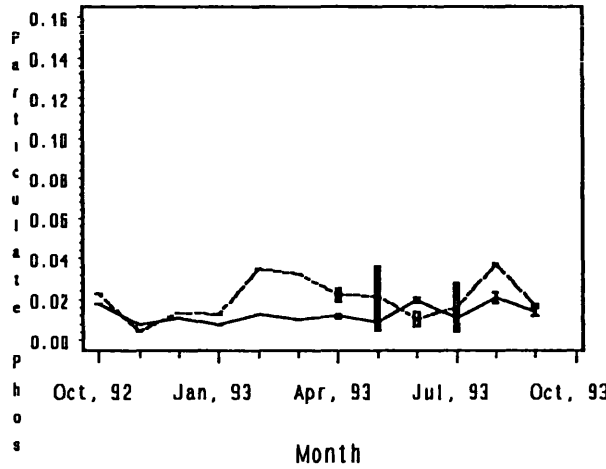
Station Id=CB7.1N



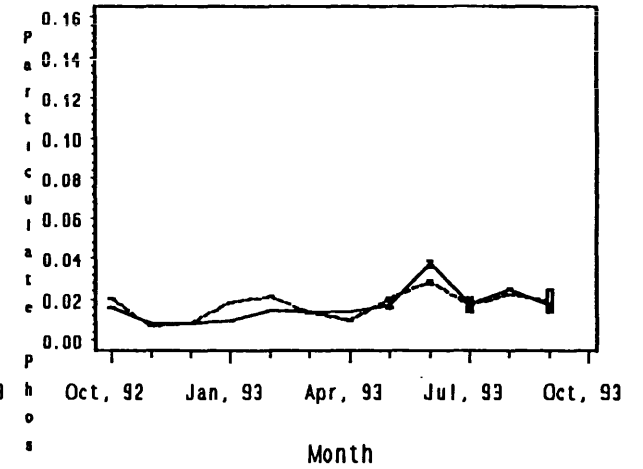
Station Id=CB7.1



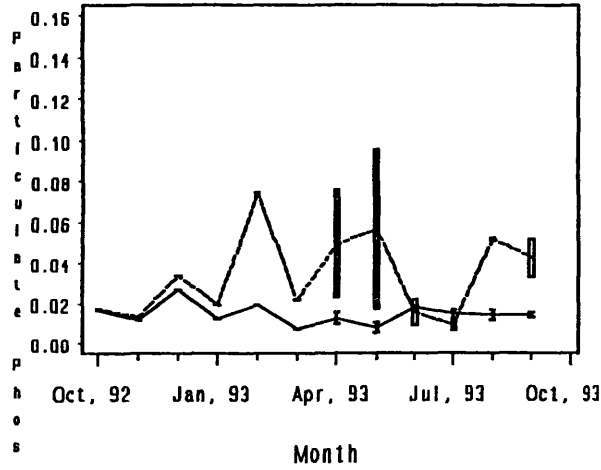
Station Id=CB7.1S



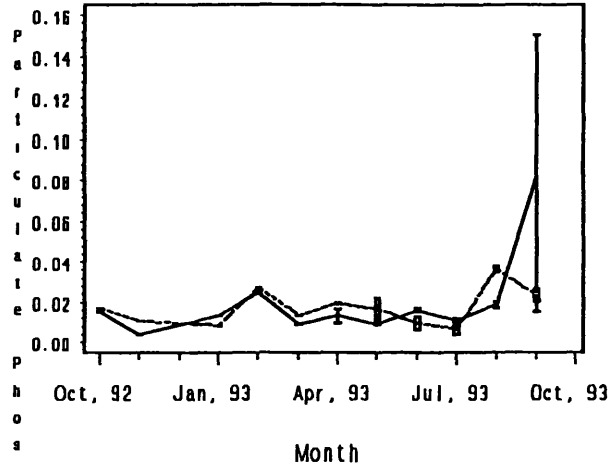
Station Id=CB5.4W



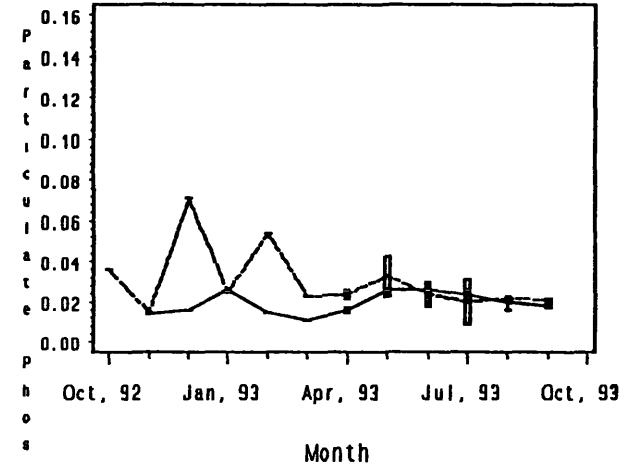
Station Id=CB7.2



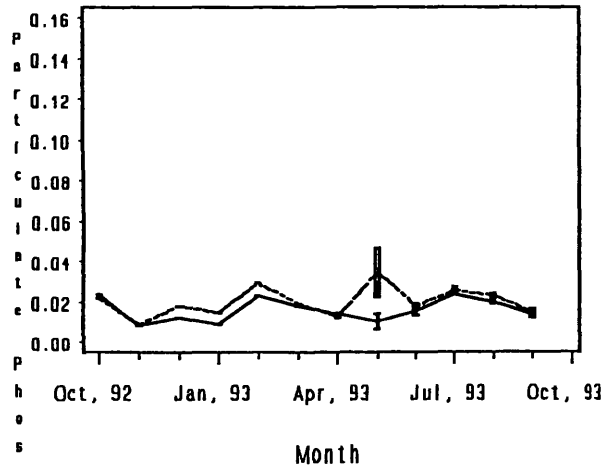
Station Id=CB7.2E



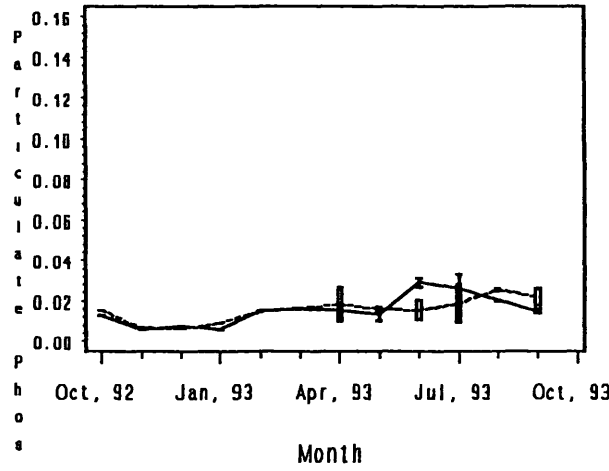
Station Id=CB7.3E



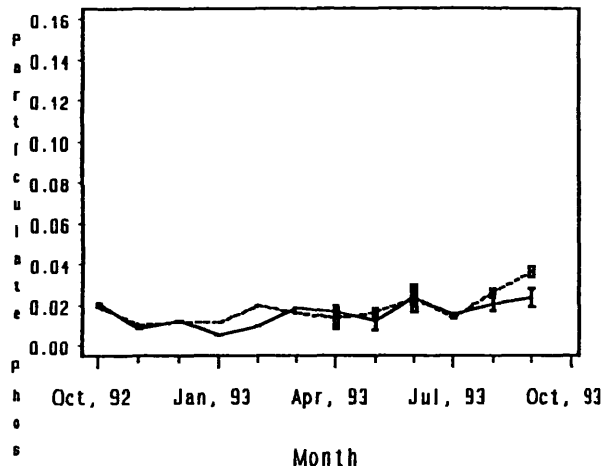
Station Id=LE3.6



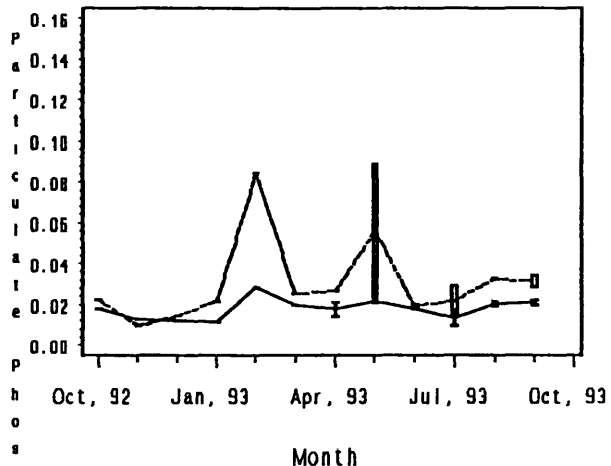
Station Id=LE3.7



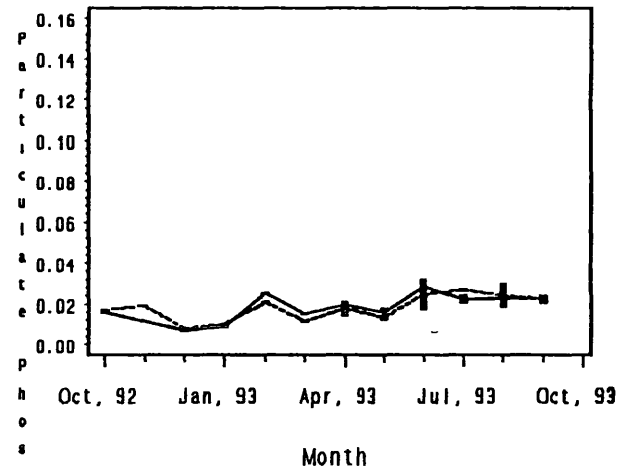
Station Id=WE4.1



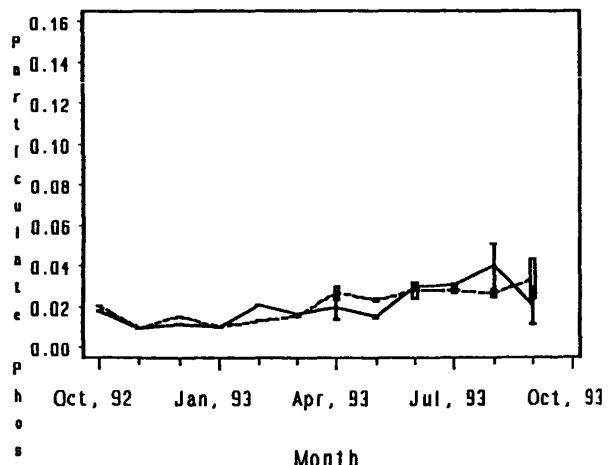
Station Id=WE4.2



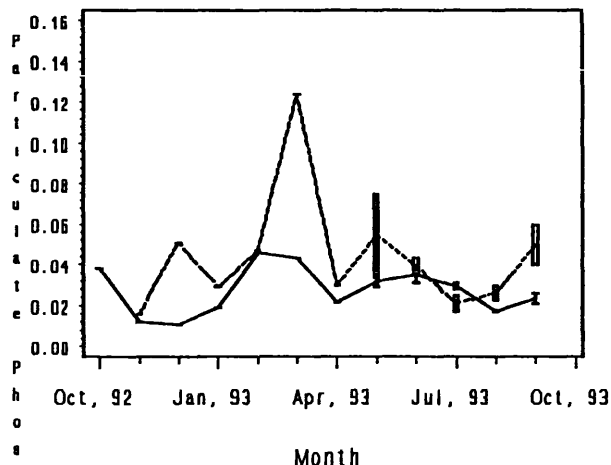
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5



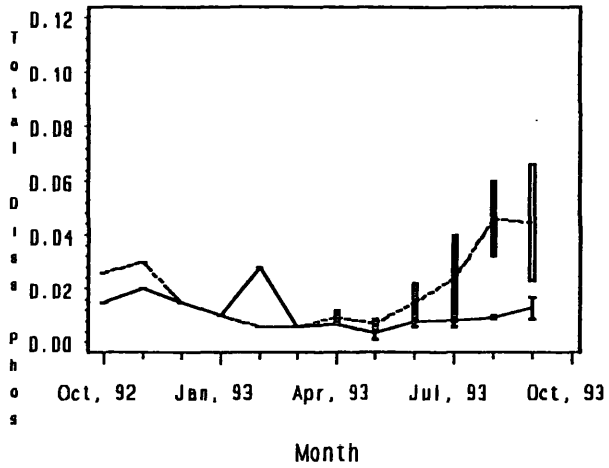
TOTAL DISSOLVED PHOSPHORUS

Values reported as mg/l.

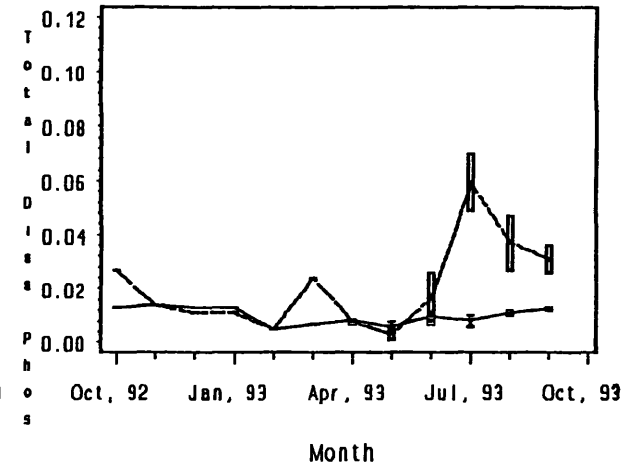
Total Dissolved Phosphorus
October, 1992 - September, 1993

	Total Dissolved Phosphorus (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.0280	0.0107	0.0010	0.0660	0.0214	0.0050
CB5.5.....	0.0140	0.0098	0.0040	0.0700	0.0223	0.0010
CB6.1.....	0.0160	0.0086	0.0040	0.0450	0.0195	0.0010
CB6.2.....	0.0150	0.0094	0.0040	0.0400	0.0159	0.0050
CB6.3.....	0.0280	0.0107	0.0030	0.0460	0.0154	0.0010
CB6.4.....	0.0210	0.0088	0.0025	0.0360	0.0139	0.0025
CB7.3.....	0.0160	0.0085	0.0025	0.0220	0.0132	0.0025
CB7.4.....	0.0230	0.0100	0.0025	0.0300	0.0140	0.0025
CB7.4N.....	0.0240	0.0110	0.0025	0.0240	0.0114	0.0025
CB8.1E.....	0.0280	0.0114	0.0025	0.0330	0.0162	0.0025
CB8.1.....	0.0330	0.0125	0.0025	0.0320	0.0151	0.0025
EE3.1.....	0.1090	0.0192	0.0070	0.0220	0.0126	0.0060
EE3.2.....	0.0210	0.0112	0.0050	0.0230	0.0114	0.0040
CB7.1N.....	0.0210	0.0106	0.0030	0.0340	0.0140	0.0040
CB7.1.....	0.0200	0.0099	0.0040	0.0570	0.0174	0.0010
CB7.1S.....	0.0140	0.0092	0.0040	0.0370	0.0158	0.0010
CB5.4W.....	0.0140	0.0091	0.0030	0.0170	0.0108	0.0050
CB7.2.....	0.0170	0.0094	0.0030	0.0400	0.0164	0.0030
CB7.2E.....	0.0230	0.0118	0.0050	0.0330	0.0141	0.0020
CB7.3E.....	0.0200	0.0086	0.0025	0.0290	0.0141	0.0025
LE3.6.....	0.0160	0.0091	0.0040	0.0220	0.0101	0.0040
LE3.7.....	0.0150	0.0101	0.0040	0.0220	0.0104	0.0030
WE4.1.....	0.0230	0.0111	0.0040	0.0290	0.0130	0.0040
WE4.2.....	0.0270	0.0137	0.0070	0.0510	0.0177	0.0060
WE4.3.....	0.0210	0.0128	0.0060	0.0220	0.0117	0.0060
WE4.4.....	0.0200	0.0111	0.0040	0.0170	0.0116	0.0040
LE5.5.....	0.0560	0.0168	0.0025	0.0300	0.0179	0.0025

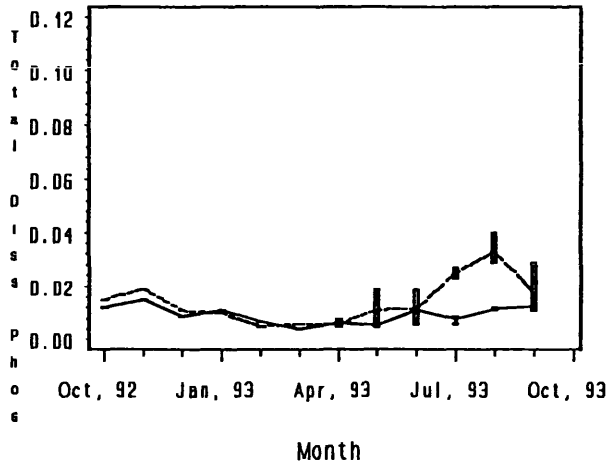
Station Id=CB5.4



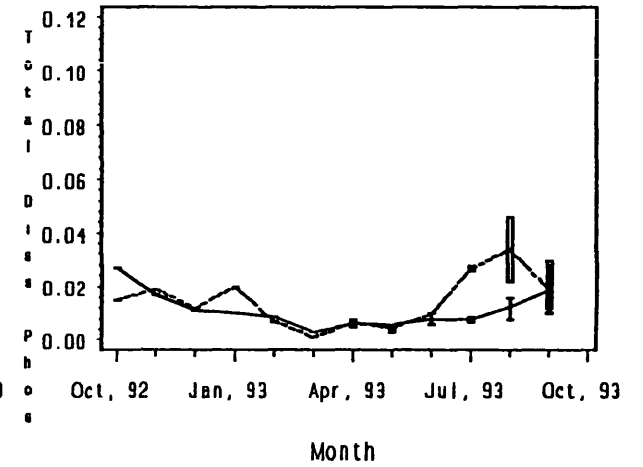
Station Id=CB5.5



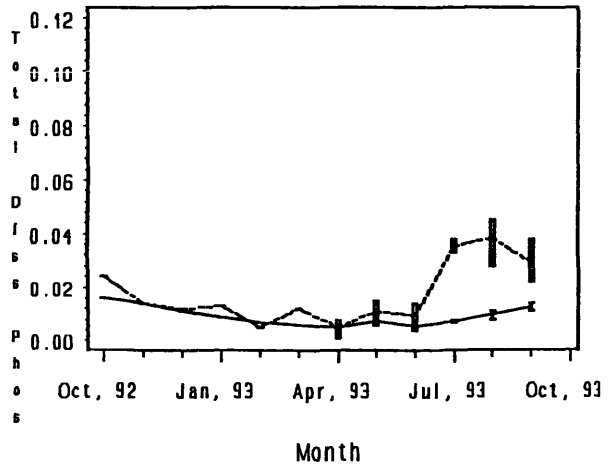
Layer — Surface — Bottom
Station Id=CB6.2



Layer — Surface — Bottom
Station Id=CB6.3



Station Id=CB6.1

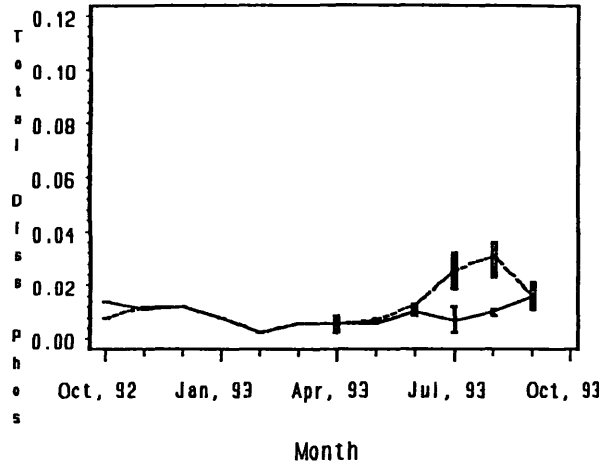


Layer — Surface — Bottom

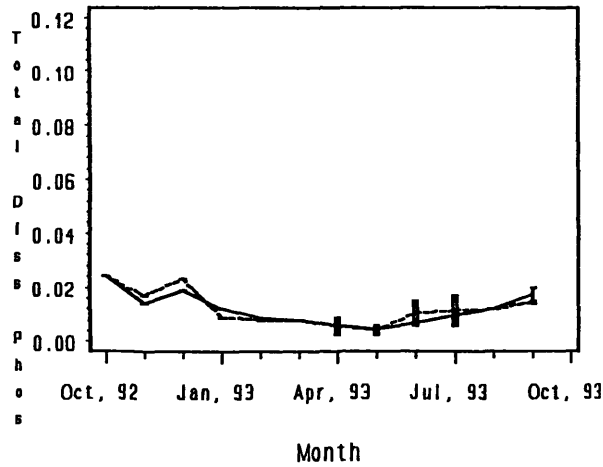
Layer — Surface — Bottom

Layer — Surface — Bottom

Station Id=CB6.4

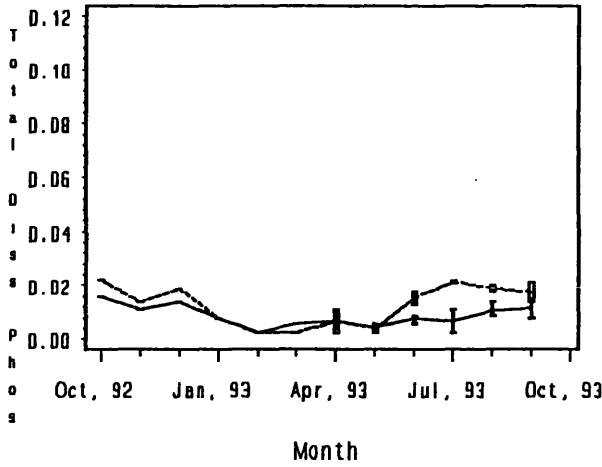


Layer — Surface — Bottom
Station Id=CB7.4N

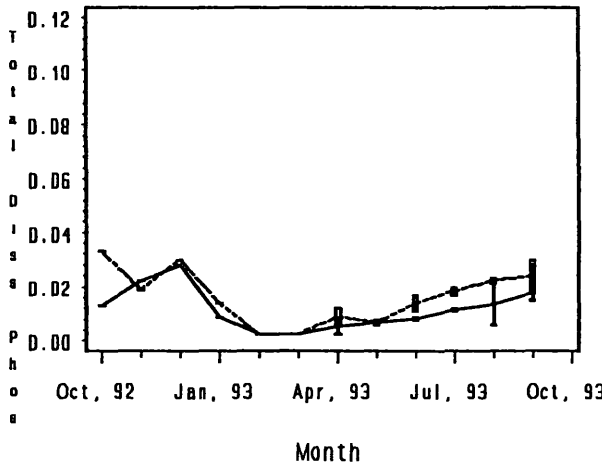


Layer — Surface — Bottom

Station Id=CB7.3

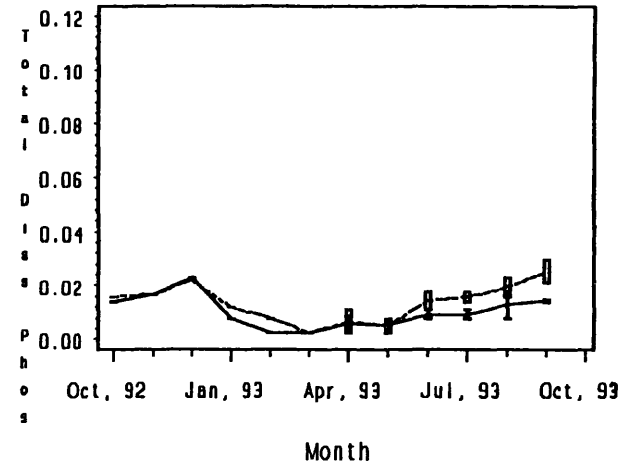


Layer — Surface — Bottom
Station Id=CB8.1E

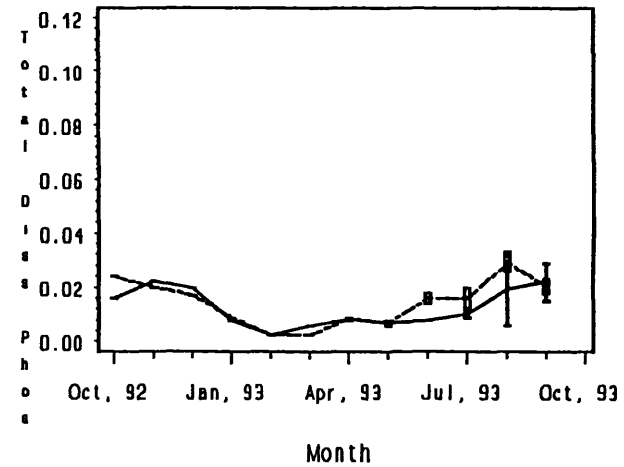


Layer — Surface — Bottom

Station Id=CB7.4

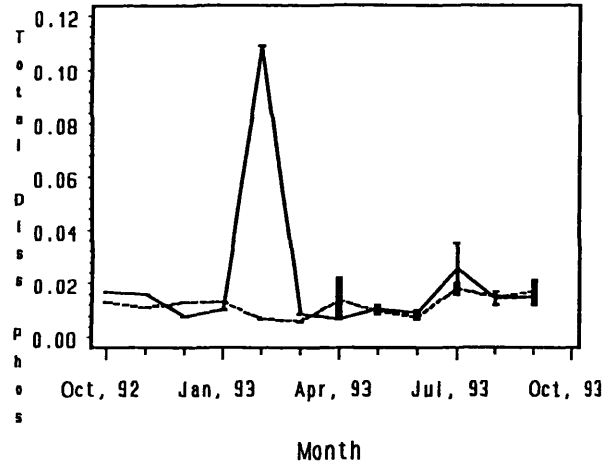


Layer — Surface — Bottom
Station Id=CB8.1

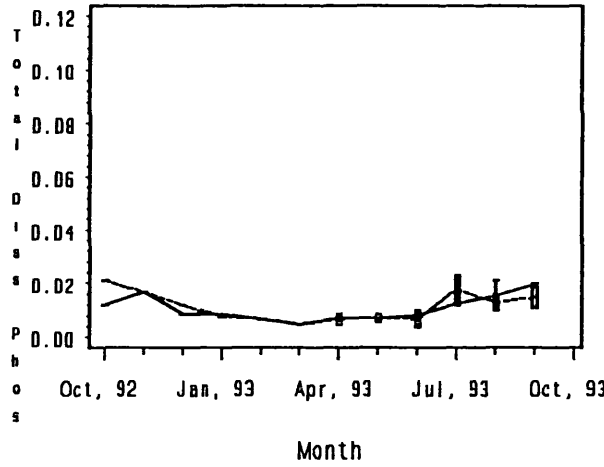


Layer — Surface — Bottom

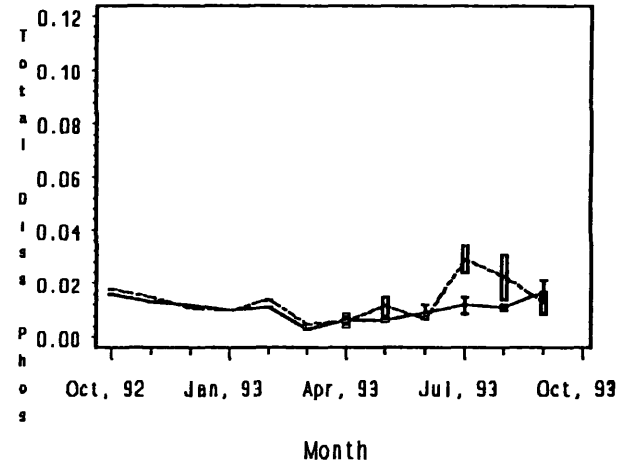
Station Id=EE3.1



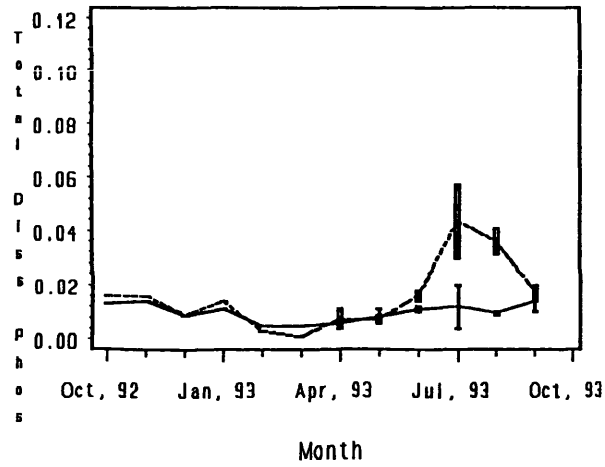
Station Id=EE3.2



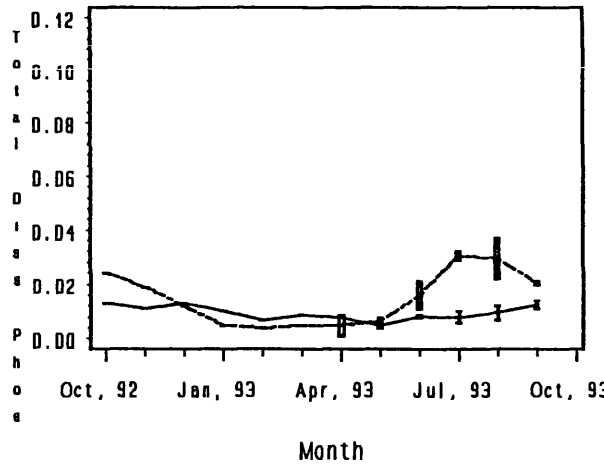
Station Id=CB7.1N



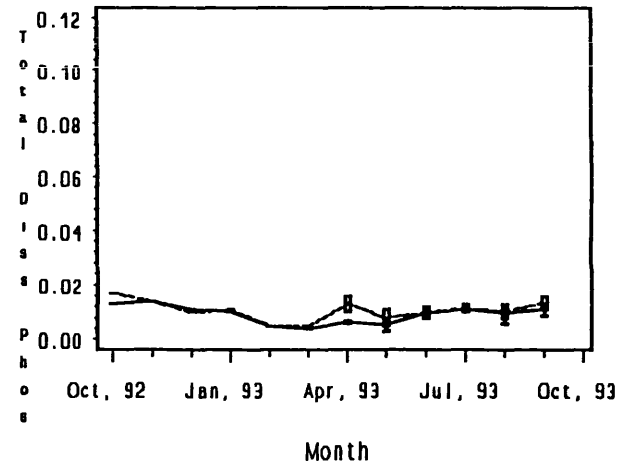
Station Id=CB7.1



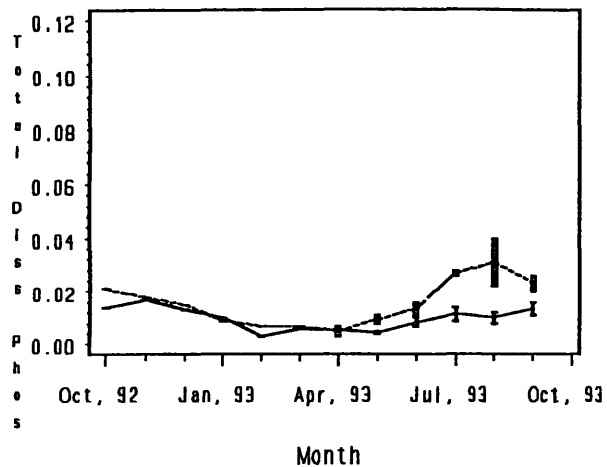
Station Id=CB7.1S



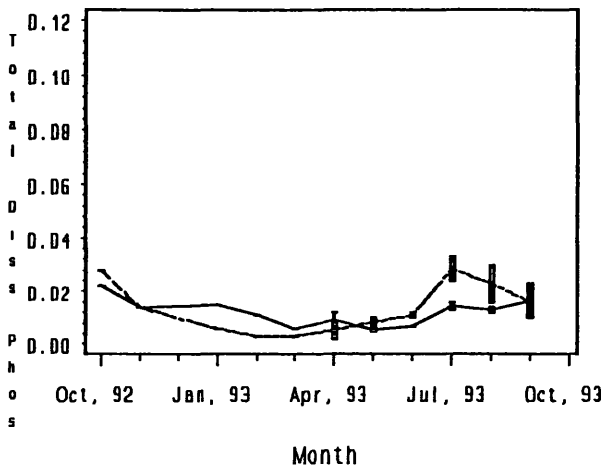
Station Id=CB5.4W



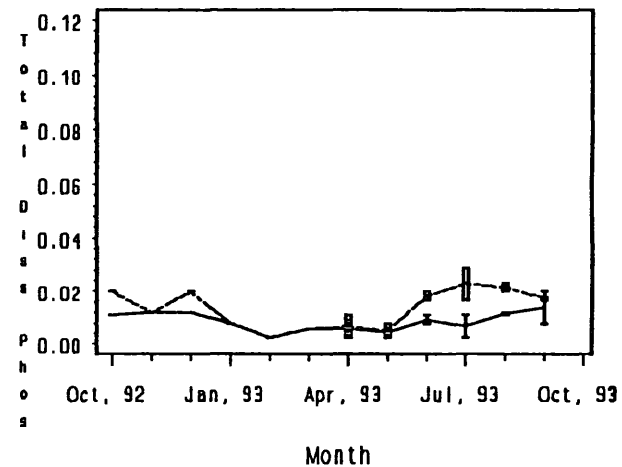
Station Id=CB7.2



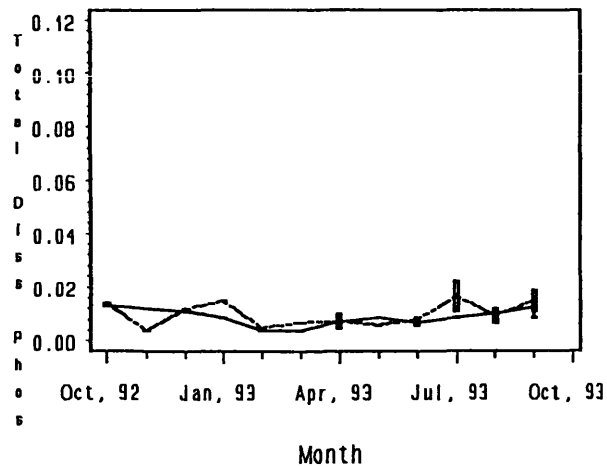
Station Id=CB7.2E



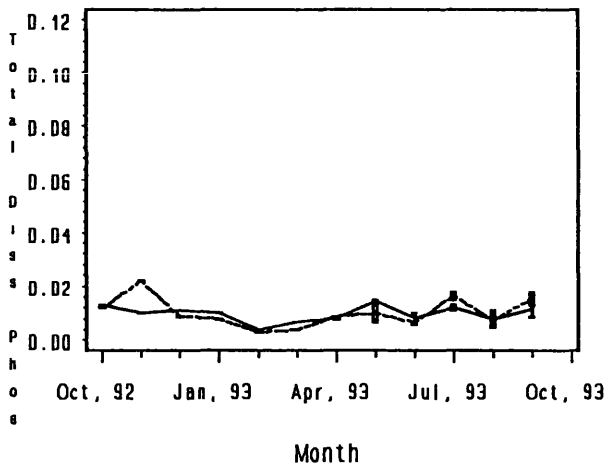
Station Id=CB7.3E



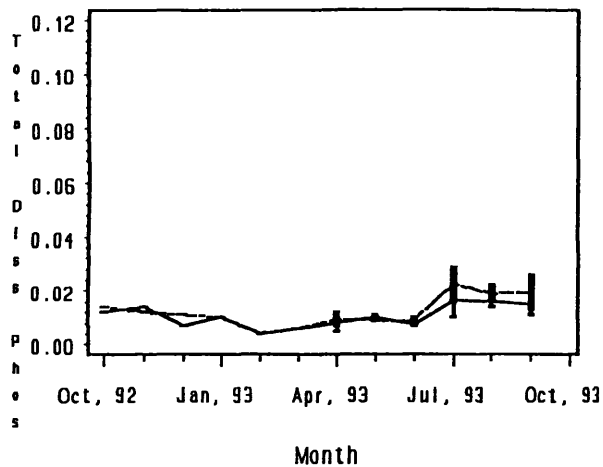
Station Id=LE3.6



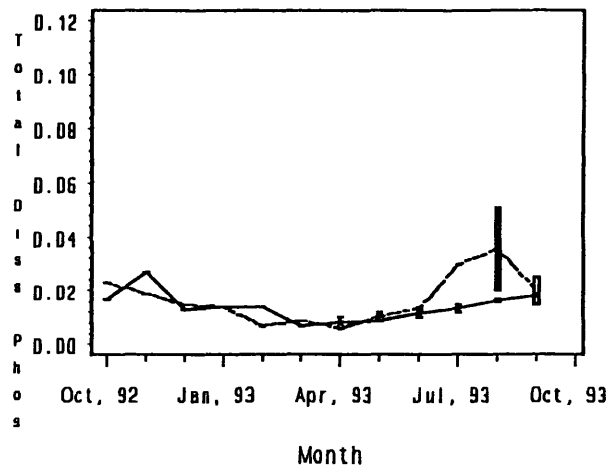
Station Id=LE3.7



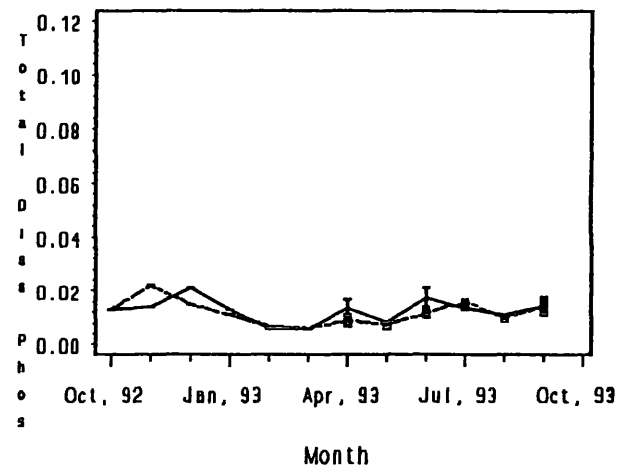
Station Id=WE4.1



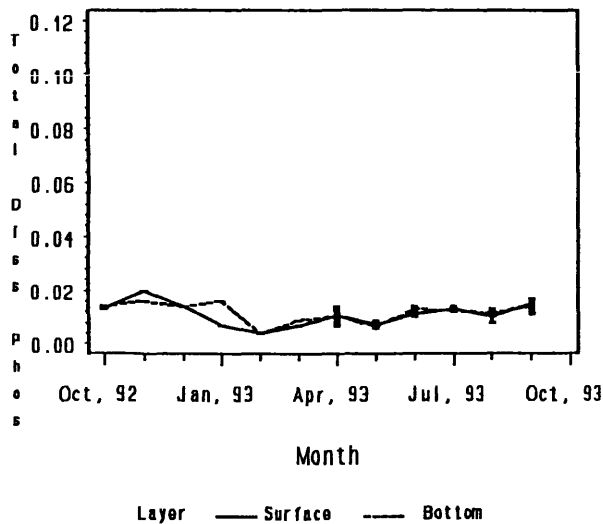
Station Id=WE4.2



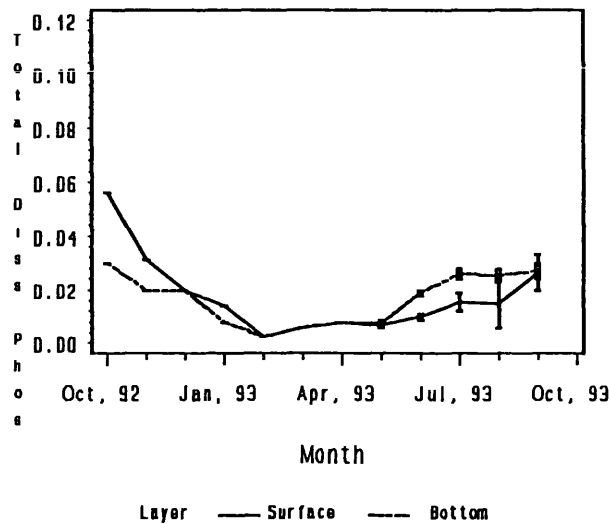
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5



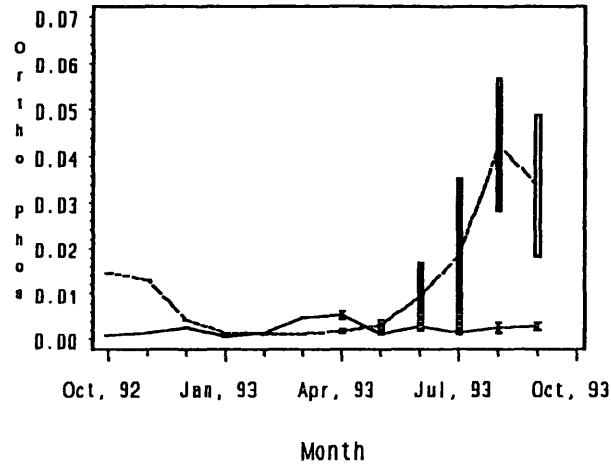
ORTHO-PHOSPHORUS

Values reported as mg/l.

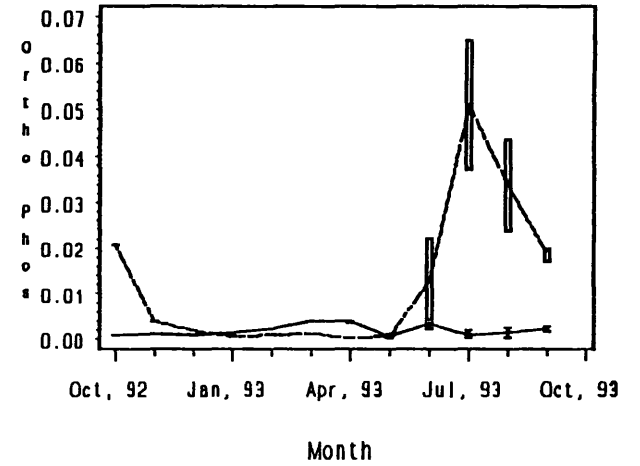
Ortho-phosphate
October, 1992 - September, 1993

	Ortho-phosphate (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.0061	0.0025	0.0006	0.0568	0.0142	0.0013
CB5.5.....	0.0043	0.0020	0.0003	0.0648	0.0147	0.0003
CB6.1.....	0.0048	0.0019	0.0003	0.0436	0.0135	0.0003
CB6.2.....	0.0051	0.0019	0.0003	0.0374	0.0087	0.0003
CB6.3.....	0.0098	0.0022	0.0003	0.0343	0.0088	0.0003
CB6.4.....	0.0170	0.0051	0.0025	0.0350	0.0111	0.0025
CB7.3.....	0.0110	0.0047	0.0025	0.0240	0.0106	0.0025
CB7.4.....	0.0170	0.0058	0.0025	0.0260	0.0091	0.0025
CB7.4N.....	0.0170	0.0069	0.0025	0.0190	0.0078	0.0025
CB8.1E.....	0.0230	0.0080	0.0025	0.0340	0.0129	0.0025
CB8.1.....	0.0310	0.0087	0.0025	0.0280	0.0125	0.0025
EE3.1.....	0.0049	0.0023	0.0003	0.0051	0.0024	0.0003
EE3.2.....	0.0124	0.0027	0.0003	0.0187	0.0035	0.0003
CB7.1N.....	0.0079	0.0017	0.0003	0.0227	0.0050	0.0003
CB7.1.....	0.0072	0.0021	0.0003	0.0395	0.0096	0.0006
CB7.1S.....	0.0025	0.0013	0.0003	0.0340	0.0091	0.0003
CB5.4W.....	0.0074	0.0023	0.0006	0.0139	0.0044	0.0003
CB7.2.....	0.0060	0.0024	0.0003	0.0272	0.0105	0.0003
CB7.2E.....	0.0119	0.0031	0.0003	0.0295	0.0091	0.0003
CB7.3E.....	0.0130	0.0051	0.0025	0.0240	0.0106	0.0025
LE3.6.....	0.0048	0.0024	0.0009	0.0187	0.0035	0.0003
LE3.7.....	0.0073	0.0028	0.0003	0.0131	0.0029	0.0003
WE4.1.....	0.0046	0.0019	0.0003	0.0285	0.0050	0.0003
WE4.2.....	0.0135	0.0045	0.0003	0.0355	0.0103	0.0003
WE4.3.....	0.0077	0.0023	0.0003	0.0130	0.0035	0.0010
WE4.4.....	0.0045	0.0019	0.0003	0.0042	0.0019	0.0003
LE5.5.....	0.0520	0.0128	0.0025	0.0260	0.0134	0.0025

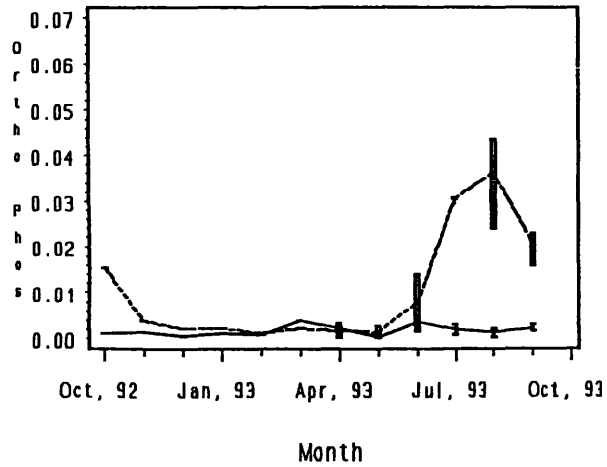
Station Id=CB5.4



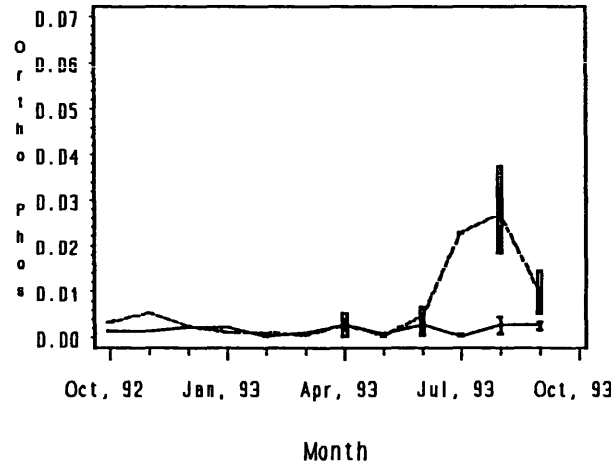
Station Id=CB5.5



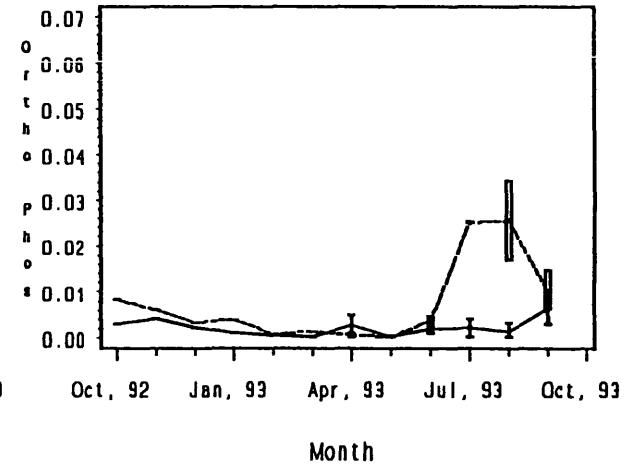
Station Id=CB6.1



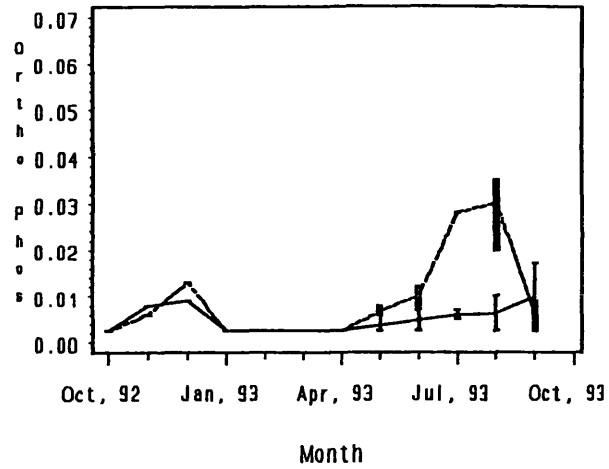
Station Id=CB6.2



Station Id=CB6.3

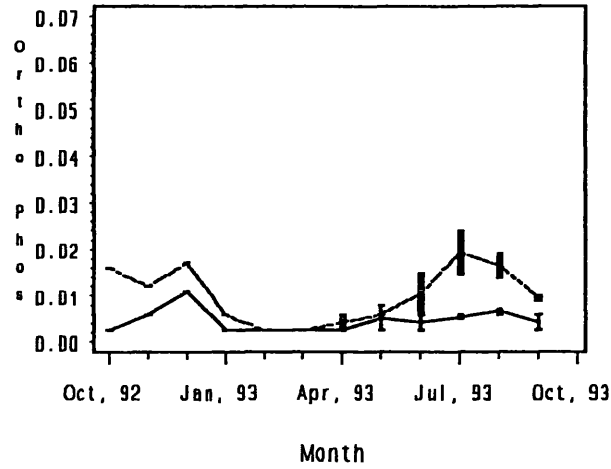


Station Id=CB6.4



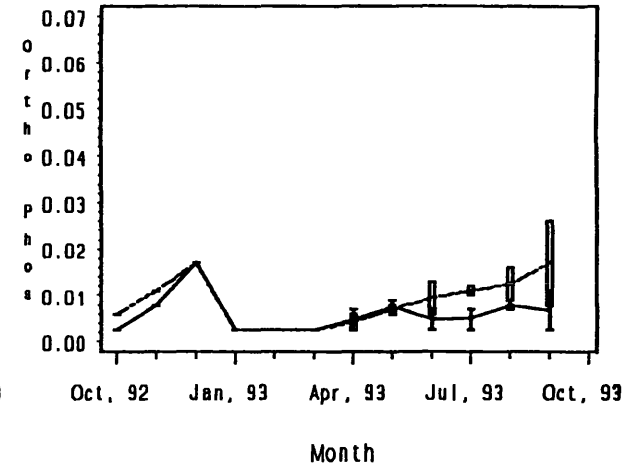
Layer — Surface — Bottom
 Station Id=CB7.4N

Station Id=CB7.3

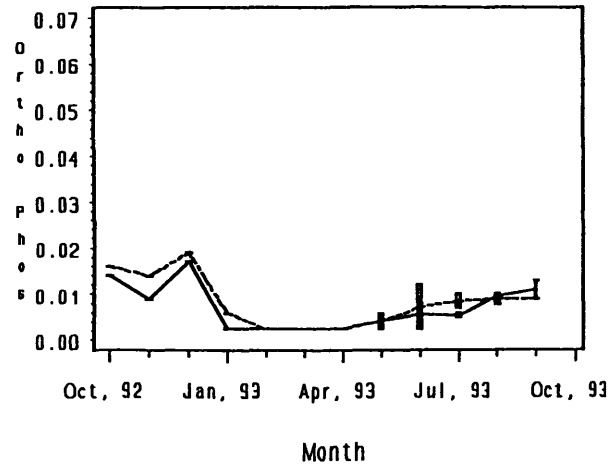


Layer — Surface — Bottom
 Station Id=CB8.1E

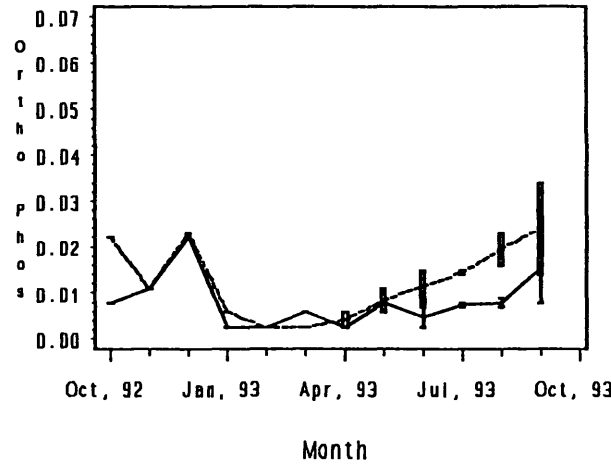
Station Id=CB7.4



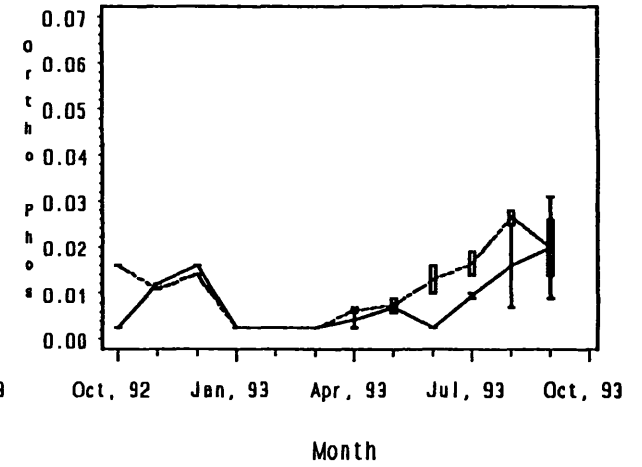
Layer — Surface — Bottom
 Station Id=CB8.1



Layer — Surface — Bottom

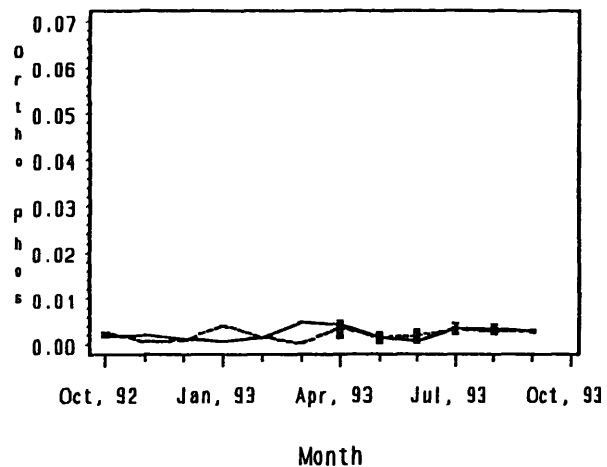


Layer — Surface — Bottom

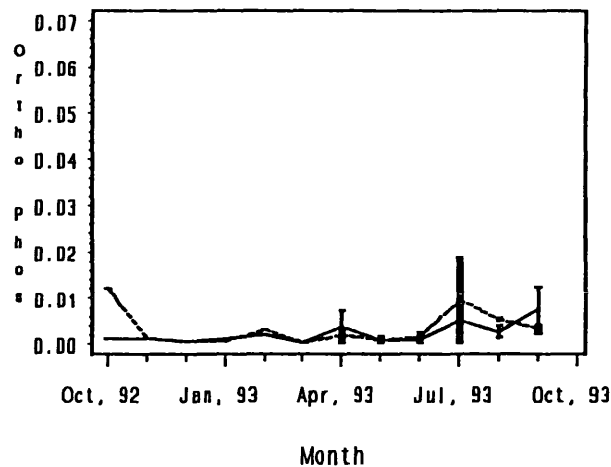


Layer — Surface — Bottom

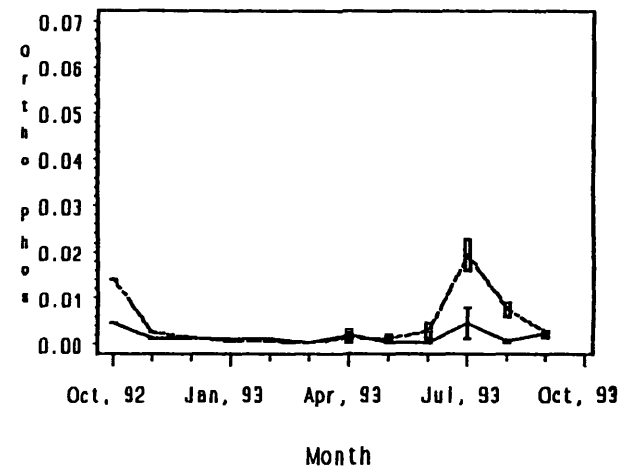
Station Id=EE3.1



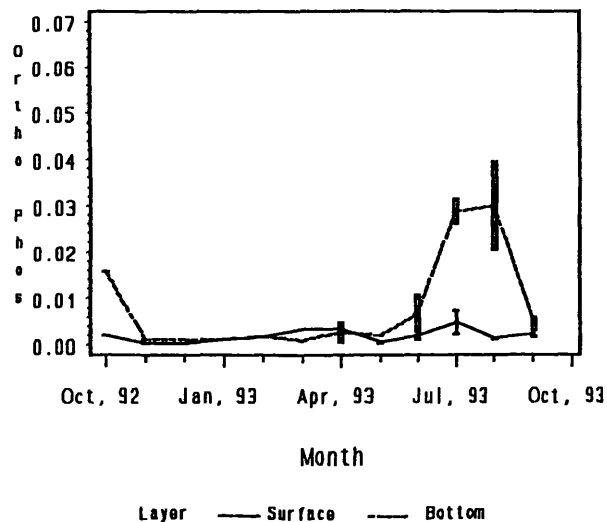
Station Id=EE3.2



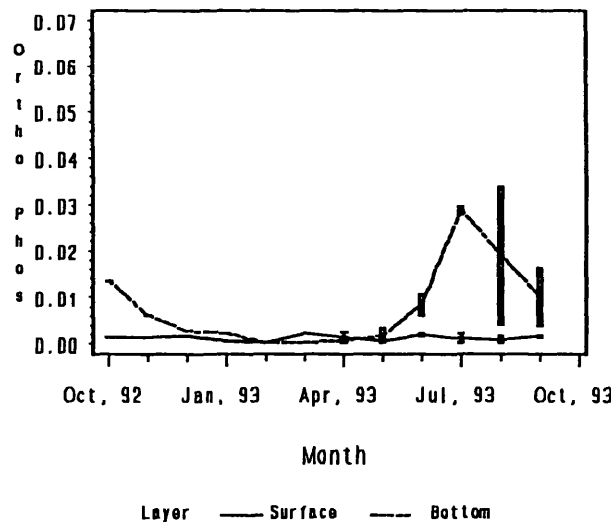
Station Id=CB7.1N



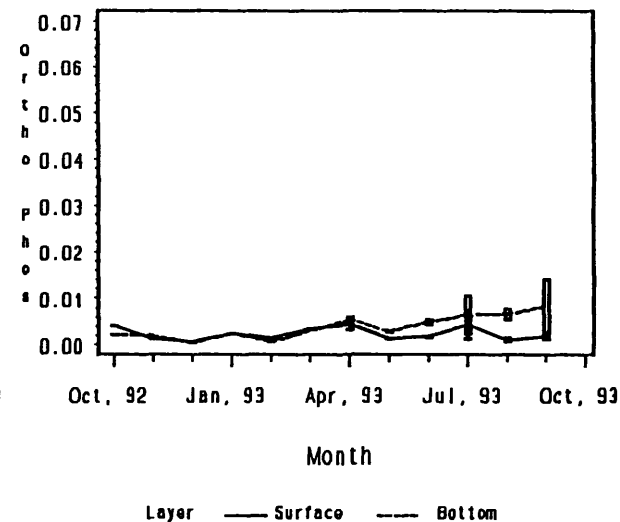
Station Id=CB7.1



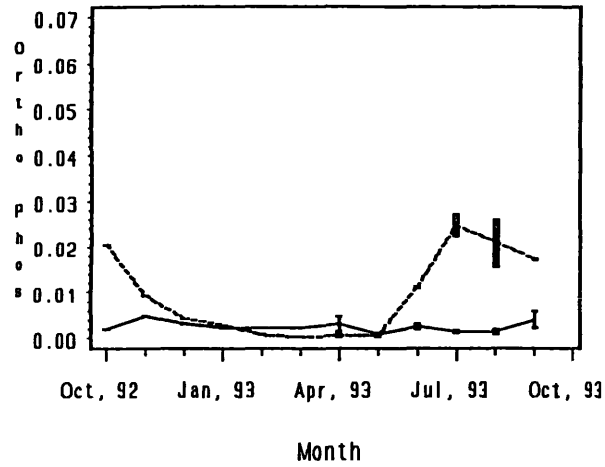
Station Id=CB7.1S



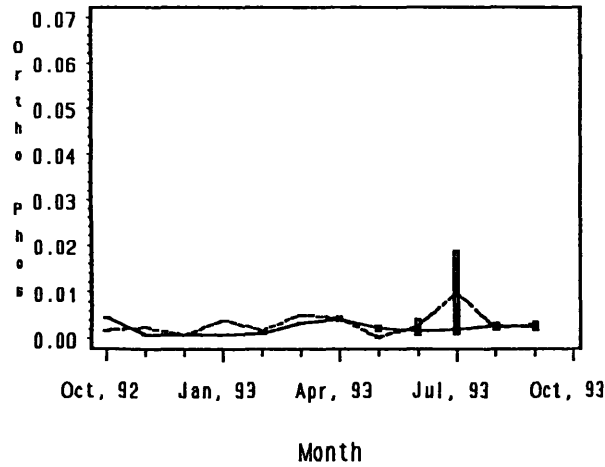
Station Id=CB5.4W



Station Id=CB7.2

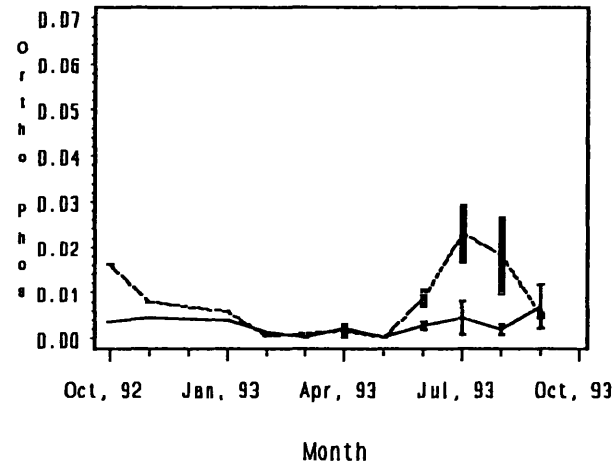


Layer — Surface — Bottom
Station Id=LE3.6

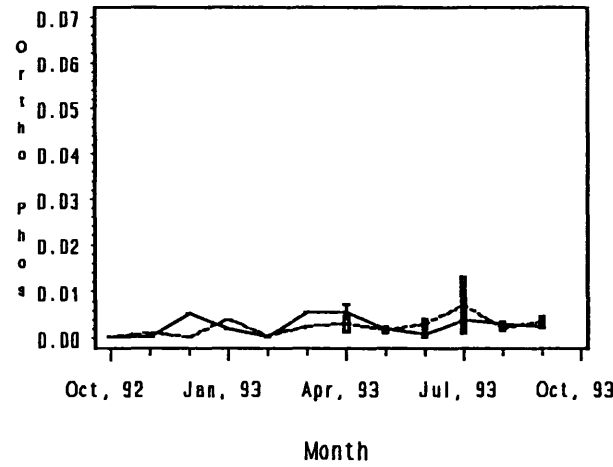


Layer — Surface — Bottom

Station Id=CB7.2E

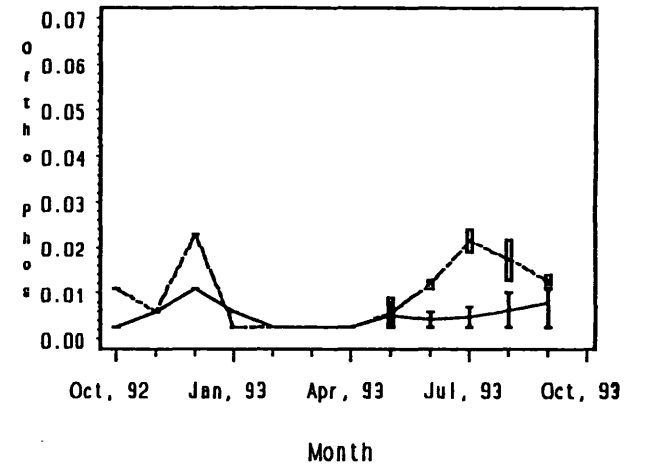


Layer — Surface — Bottom
Station Id=LE3.7



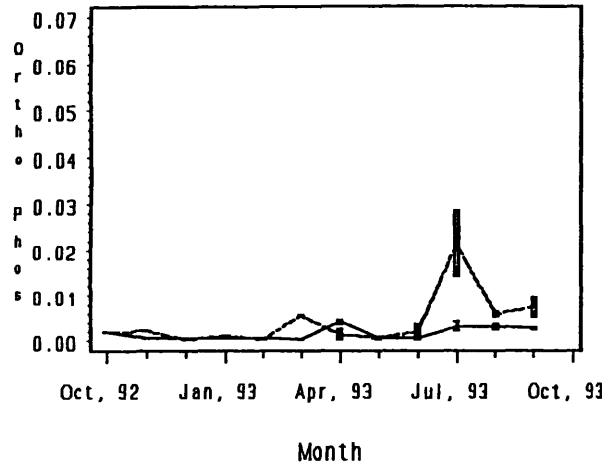
Layer — Surface — Bottom

Station Id=CB7.3E



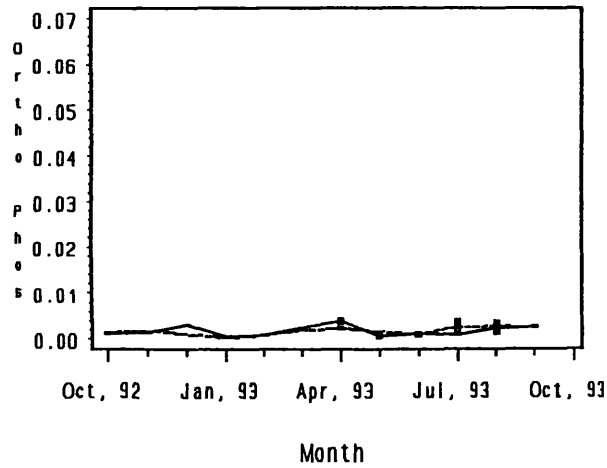
Layer — Surface — Bottom

Station Id=WE4.1



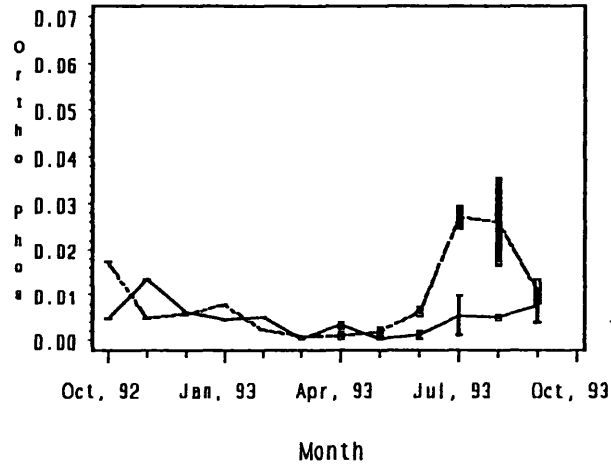
Layer — Surface — Bottom

Station Id=WE4.4



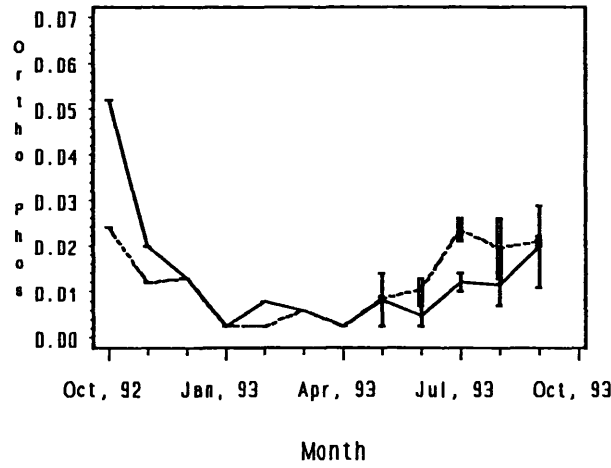
Layer — Surface — Bottom

Station Id=WE4.2



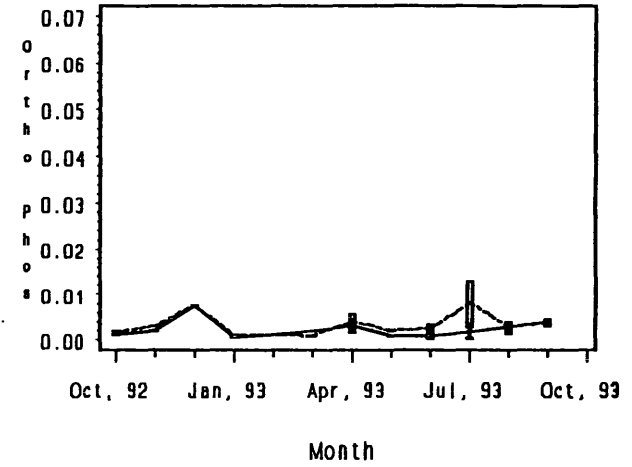
Layer — Surface — Bottom

Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom

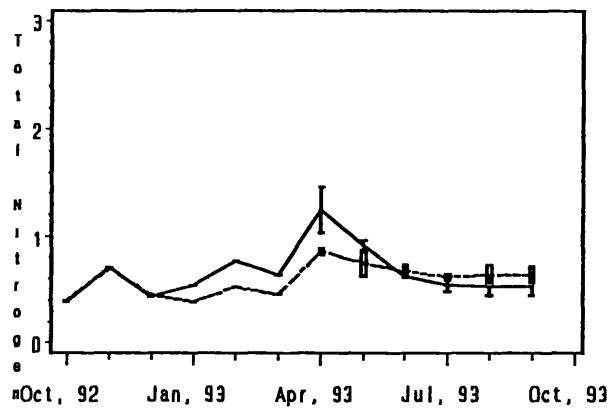
TOTAL NITROGEN

Total Nitrogen is the sum of
Particulate Nitrogen and Total Dissolved Nitrogen
Values reported as mg/l.

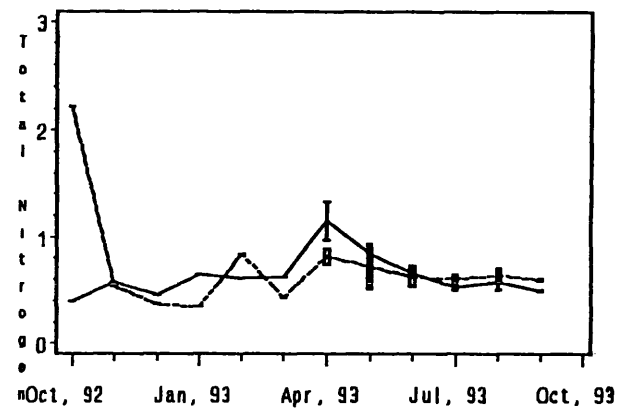
Total Nitrogen
October, 1992 - September, 1993

	Total Nitrogen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	1.4630	0.6796	0.3840	0.8880	0.6265	0.3840
CB5.5.....	1.3290	0.6518	0.3990	2.2230	0.7111	0.3470
CB6.1.....	1.0870	0.6216	0.3840	0.8410	0.5924	0.3050
CB6.2.....	1.1090	0.5683	0.3130	1.0580	0.5723	0.3350
CB6.3.....	0.9970	0.5960	0.4030	1.0170	0.6079	0.4240
CB6.4.....	0.7440	0.5084	0.2740	0.8550	0.4832	0.2660
CB7.3.....	0.6720	0.4449	0.2600	0.4770	0.3344	0.2220
CB7.4.....	0.5670	0.3695	0.2180	0.5640	0.3366	0.1750
CB7.4N.....	0.6220	0.3837	0.2250	0.5920	0.3448	0.1980
CB8.1E.....	0.6060	0.4121	0.2680	0.5280	0.3602	0.1740
CB8.1.....	0.6570	0.4678	0.3040	0.6630	0.4278	0.2480
EE3.1.....	1.4050	0.7455	0.5120	0.9950	0.6971	0.4350
EE3.2.....	1.1210	0.6292	0.4120	1.3120	0.7338	0.4110
CB7.1N.....	1.0580	0.6271	0.3910	0.9660	0.6963	0.4220
CB7.1.....	1.0180	0.5883	0.3450	1.2490	0.6213	0.3470
CB7.1S.....	0.8720	0.5763	0.3410	0.9350	0.5566	0.3570
CB5.4W.....	1.1580	0.6761	0.4330	1.1810	0.6804	0.4530
CB7.2.....	1.0010	0.5441	0.3090	1.0520	0.5398	0.2630
CB7.2E.....	0.9550	0.5428	0.3550	0.9350	0.5072	0.3000
CB7.3E.....	0.6580	0.4106	0.2780	0.5750	0.3859	0.2530
LE3.6.....	0.8710	0.5940	0.3820	1.2270	0.6627	0.3770
LE3.7.....	0.8840	0.5770	0.3530	0.9020	0.5950	0.3350
WE4.1.....	0.8210	0.5344	0.3130	0.9350	0.5761	0.2700
WE4.2.....	0.9070	0.5573	0.3610	0.9170	0.6353	0.3940
WE4.3.....	0.6910	0.5336	0.3610	0.8250	0.5427	0.2940
WE4.4.....	0.8630	0.5526	0.3230	0.8450	0.5708	0.3470
LE5.5.....	0.7190	0.4907	0.3330	0.4920	0.4107	0.2910

Station Id=CB5.4



Station Id=CB5.5



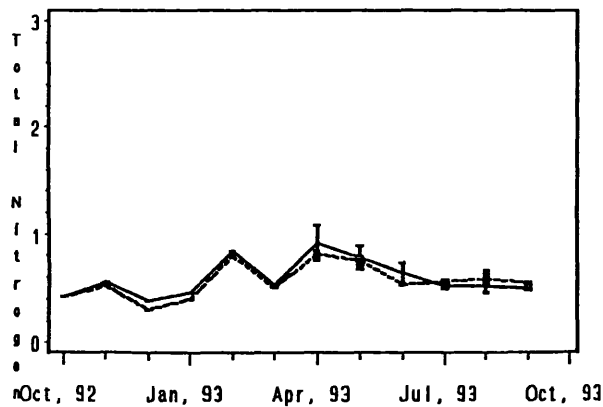
Month

Month

Layer — Surface — Bottom

Layer — Surface — Bottom

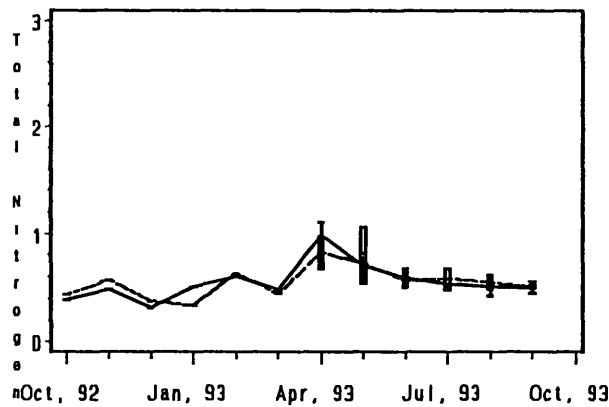
Station Id=CB6.1



Month

Layer — Surface — Bottom

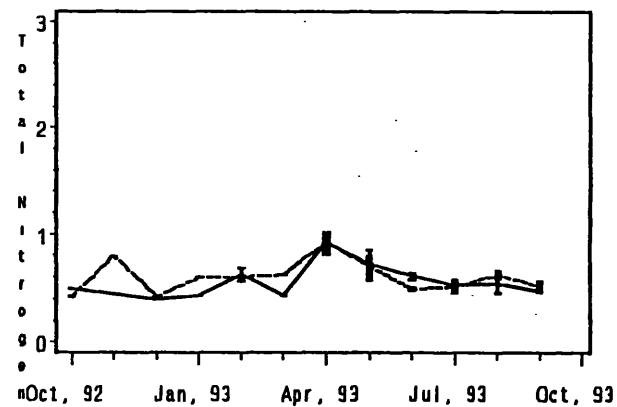
Station Id=CB6.2



Month

Layer — Surface — Bottom

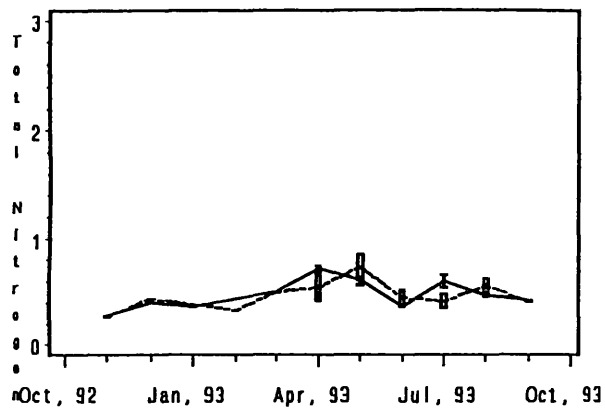
Station Id=CB6.3



Month

Layer — Surface — Bottom

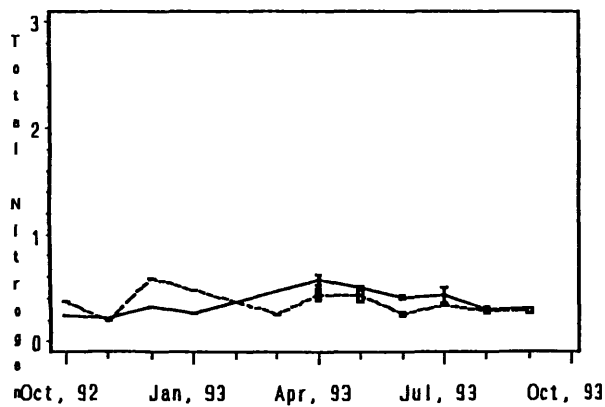
Station Id=CB6.4



Month

Layer — Surface - - - Bottom

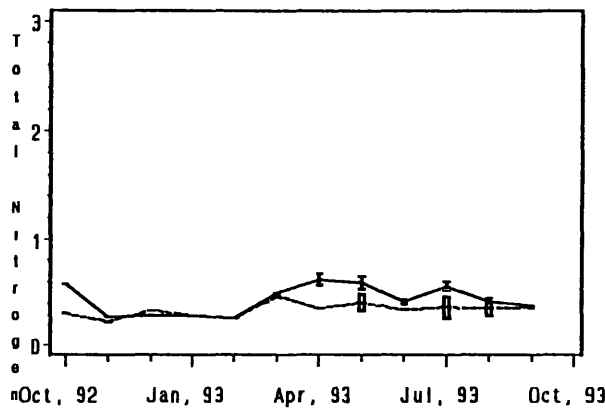
Station Id=CB7.4N



Month

Layer — Surface - - - Bottom

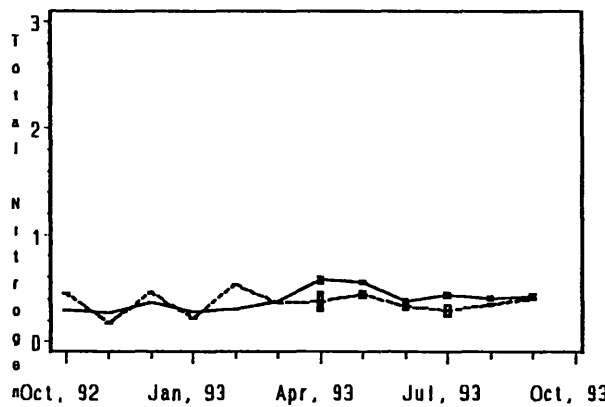
Station Id=CB7.3



Month

Layer — Surface - - - Bottom

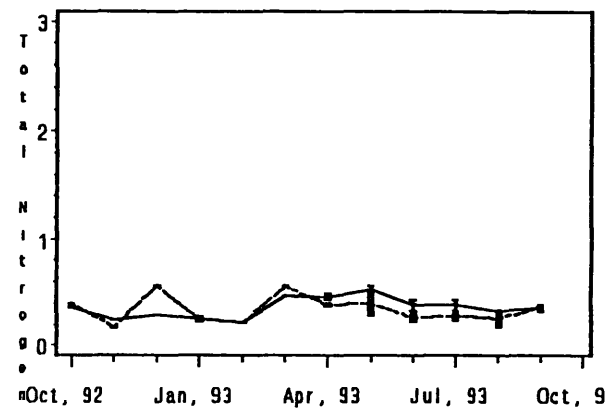
Station Id=CB8.1E



Month

Layer — Surface - - - Bottom

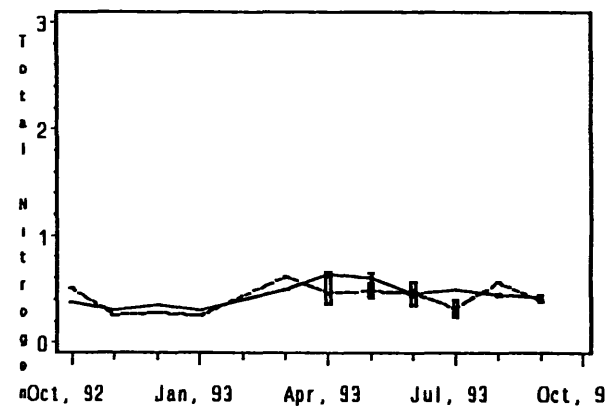
Station Id=CB7.4



Month

Layer — Surface - - - Bottom

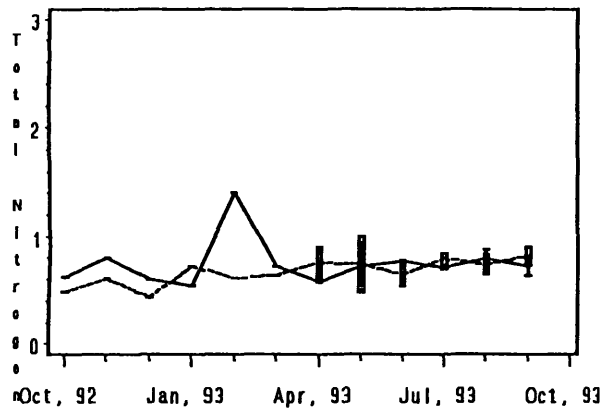
Station Id=CB8.1



Month

Layer — Surface - - - Bottom

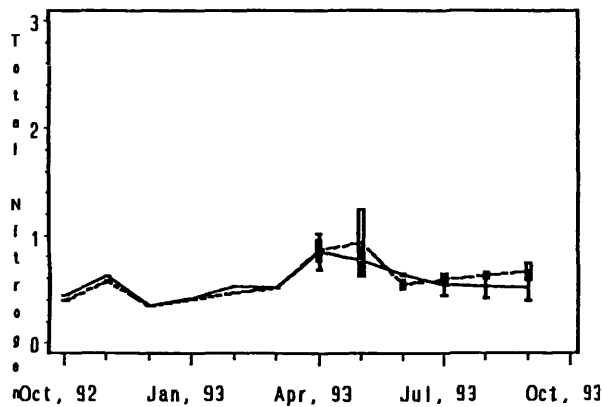
Station Id=EE3.1



Month

Layer — Surface — Bottom

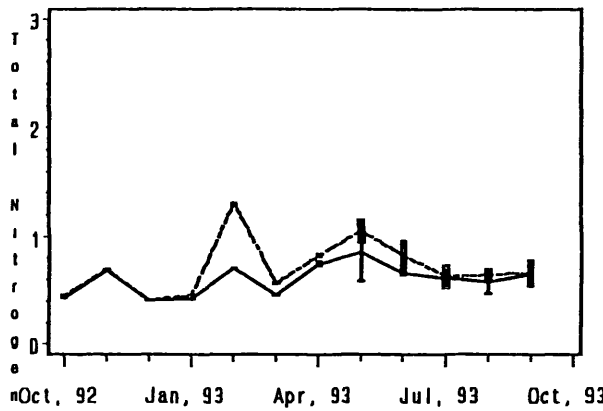
Station Id=CB7.1



Month

Layer — Surface — Bottom

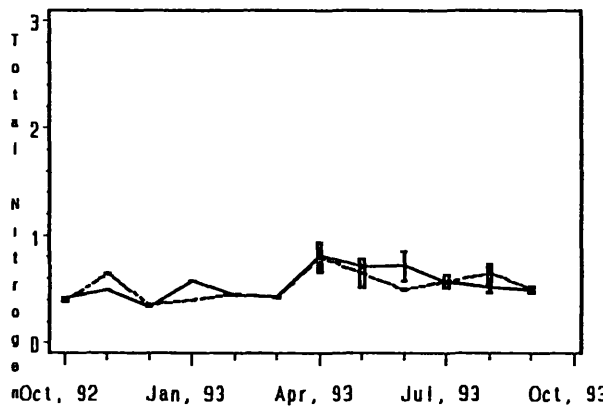
Station Id=EE3.2



Month

Layer — Surface — Bottom

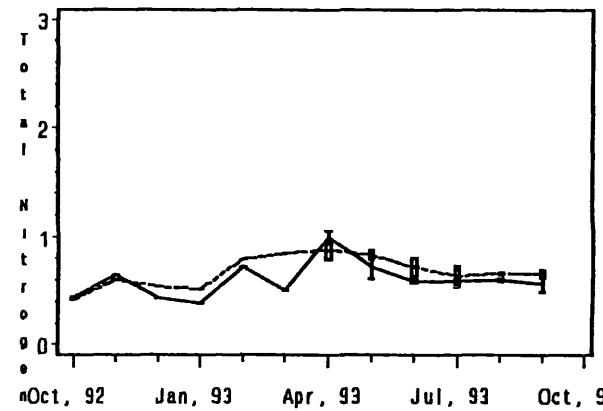
Station Id=CB7.1S



Month

Layer — Surface — Bottom

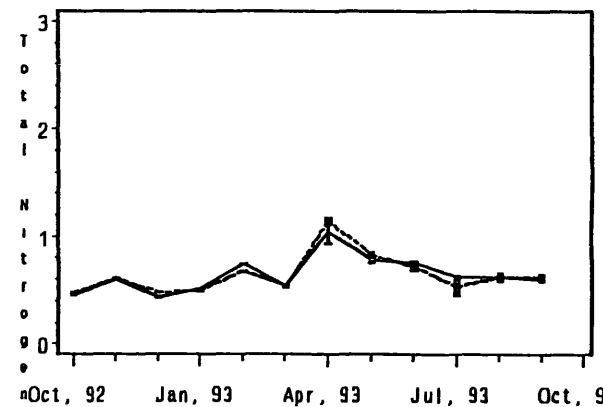
Station Id=CB7.1N



Month

Layer — Surface — Bottom

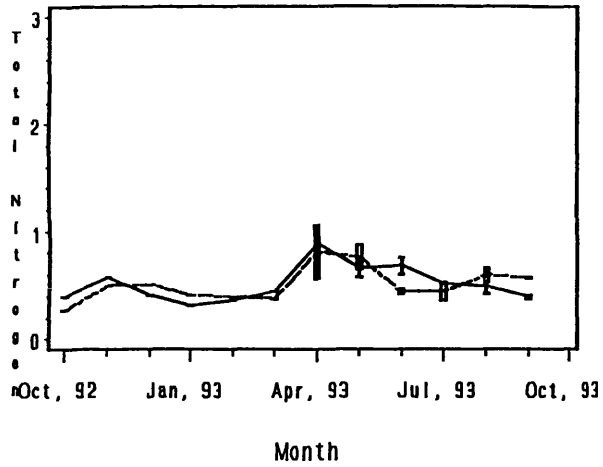
Station Id=CB5.4W



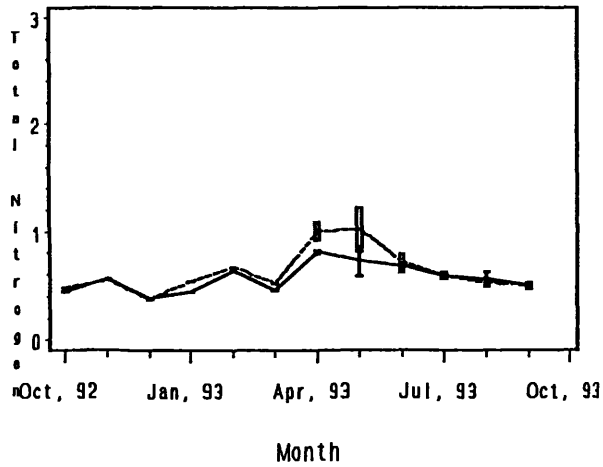
Month

Layer — Surface — Bottom

Station Id=CB7.2

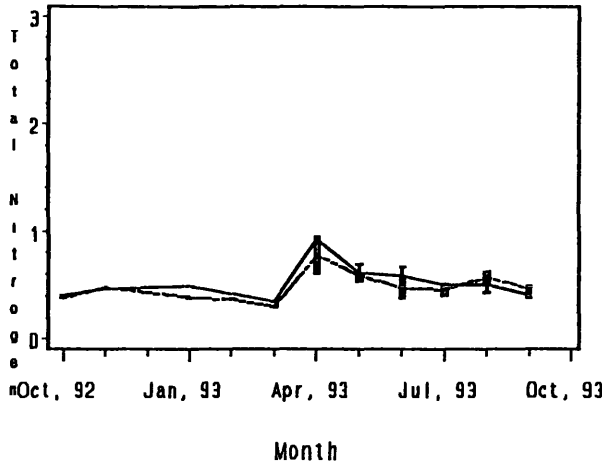


Layer — Surface — Bottom
 Station Id=LE3.6

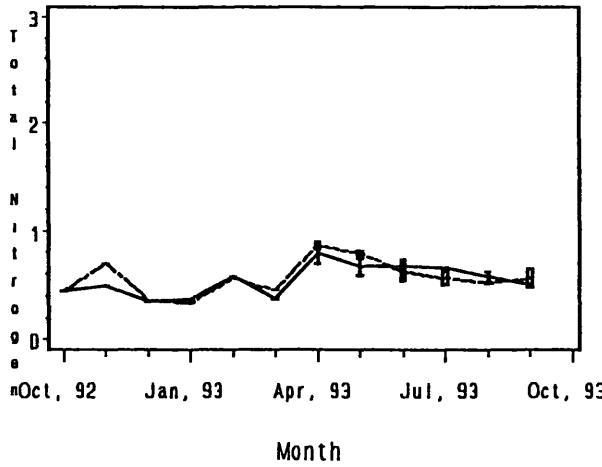


Layer — Surface — Bottom

Station Id=CB7.2E

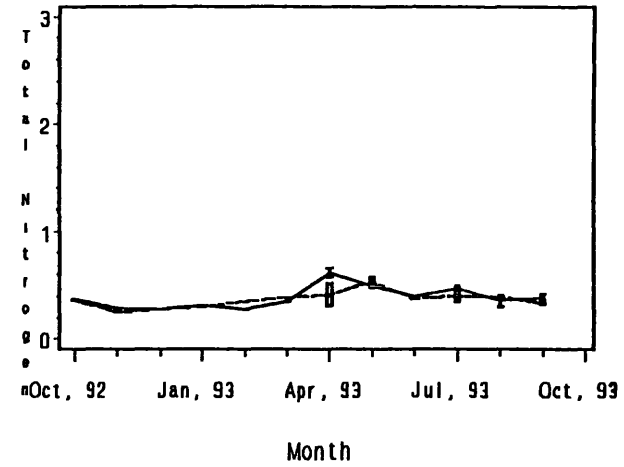


Layer — Surface — Bottom
 Station Id=LE3.7



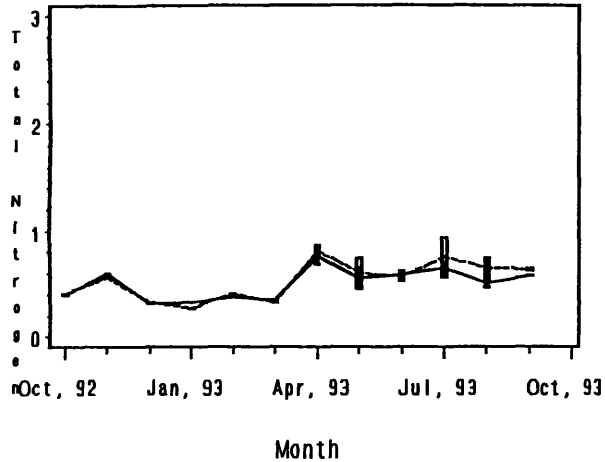
Layer — Surface — Bottom

Station Id=CB7.3E

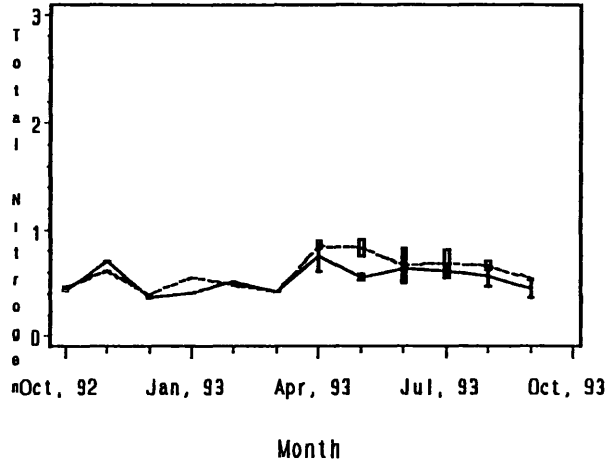


Layer — Surface — Bottom

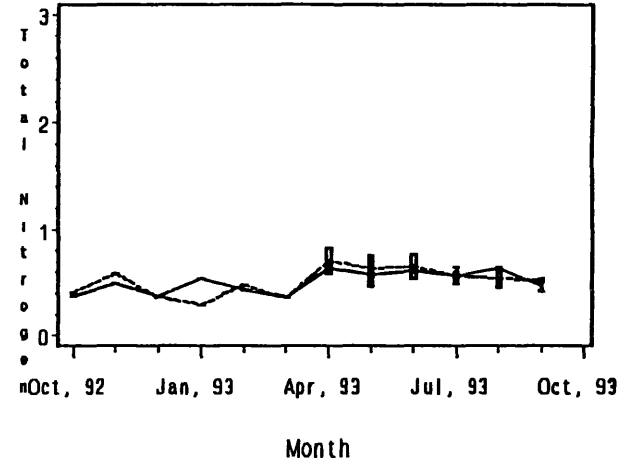
Station Id=WE4.1



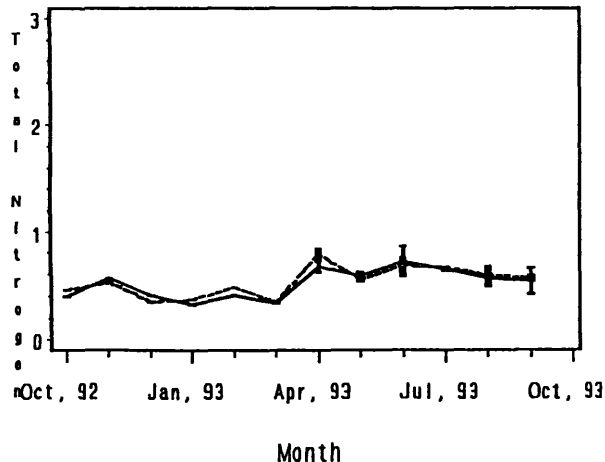
Station Id=WE4.2



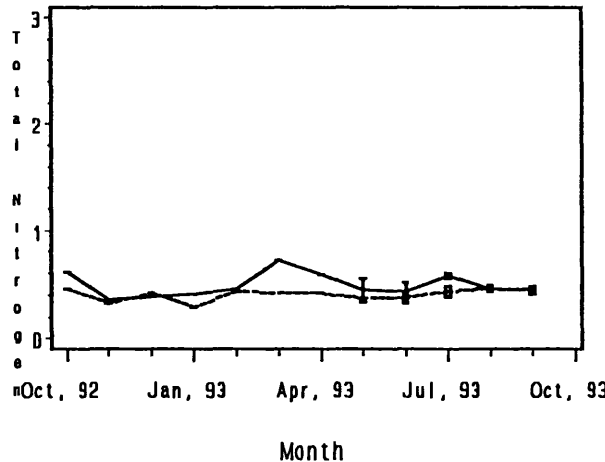
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5



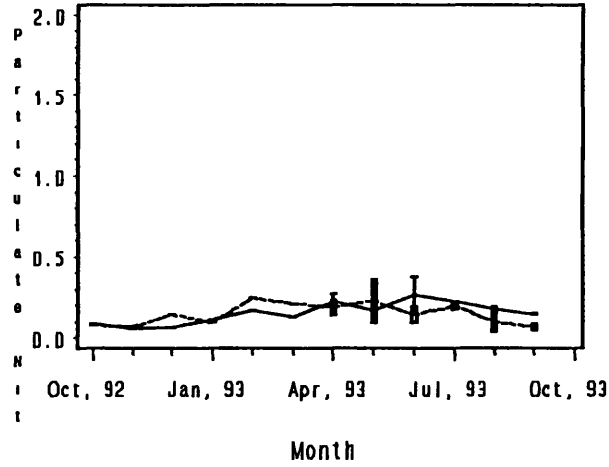
PARTICULATE NITROGEN

Values reported as mg/l.

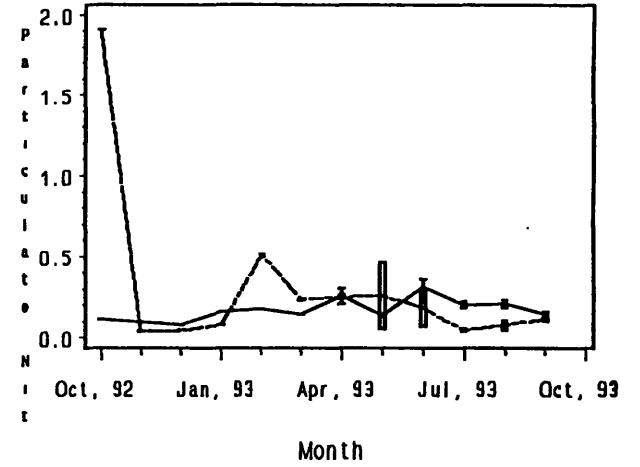
Particulate Nitrogen
October, 1992 - September, 1993

	Particulate Nitrogen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.3740	0.1701	0.0580	0.3610	0.1509	0.0420
CB5.5.....	0.3630	0.1912	0.0820	1.9090	0.2613	0.0410
CB6.1.....	0.3070	0.1784	0.0790	0.3330	0.1427	0.0540
CB6.2.....	0.3550	0.1742	0.0570	0.6260	0.1669	0.0640
CB6.3.....	0.3260	0.1852	0.0820	0.5180	0.1988	0.0720
CB6.4.....	0.3440	0.1815	0.0600	0.4100	0.1661	0.0720
CB7.3.....	0.2830	0.1702	0.0390	0.2860	0.1378	0.0690
CB7.4.....	0.2780	0.1487	0.0570	0.3730	0.1663	0.0180
CB7.4N.....	0.2780	0.1576	0.0800	0.3600	0.1717	0.0640
CB8.1E.....	0.3180	0.1666	0.0660	0.3910	0.1731	0.0760
CB8.1.....	0.2990	0.1922	0.0520	0.4120	0.1832	0.0720
EE3.1.....	0.4140	0.2504	0.1500	0.4990	0.2615	0.0900
EE3.2.....	0.4310	0.2356	0.0920	1.0570	0.3241	0.1010
CB7.1N.....	0.4370	0.2069	0.0930	0.6500	0.2556	0.0860
CB7.1.....	0.3580	0.1839	0.0620	0.8030	0.2127	0.0610
CB7.1S.....	0.3310	0.1781	0.0970	0.4350	0.1566	0.0430
CB5.4W.....	0.4330	0.2303	0.0860	0.4020	0.2277	0.0930
CB7.2.....	0.3590	0.1723	0.0940	0.6270	0.2043	0.0660
CB7.2E.....	0.4000	0.1705	0.0900	0.4210	0.1442	0.0620
CB7.3E.....	0.2890	0.1601	0.0370	0.2410	0.1614	0.0920
LE3.6.....	0.3610	0.2121	0.0810	0.6920	0.2227	0.0820
LE3.7.....	0.5070	0.2306	0.0670	0.4900	0.2166	0.0720
WE4.1.....	0.3000	0.1978	0.0940	0.3320	0.2043	0.0990
WE4.2.....	0.2920	0.1904	0.0870	0.6080	0.2094	0.1010
WE4.3.....	0.3650	0.1953	0.0670	0.4240	0.2032	0.0620
WE4.4.....	0.4350	0.2209	0.0590	0.5530	0.2312	0.0690
LE5.5.....	0.3650	0.1951	0.0590	0.2650	0.1706	0.0850

Station Id=CB5.4



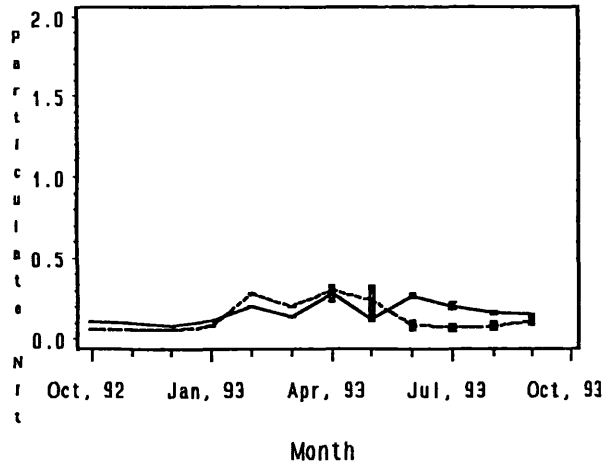
Station Id=CB5.5



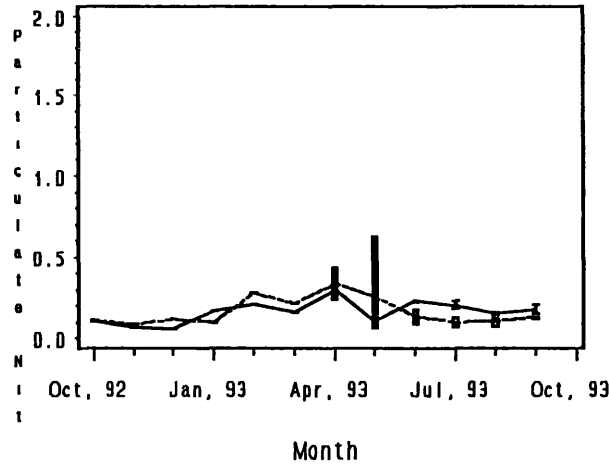
Layer — Surface — Bottom

Layer — Surface — Bottom

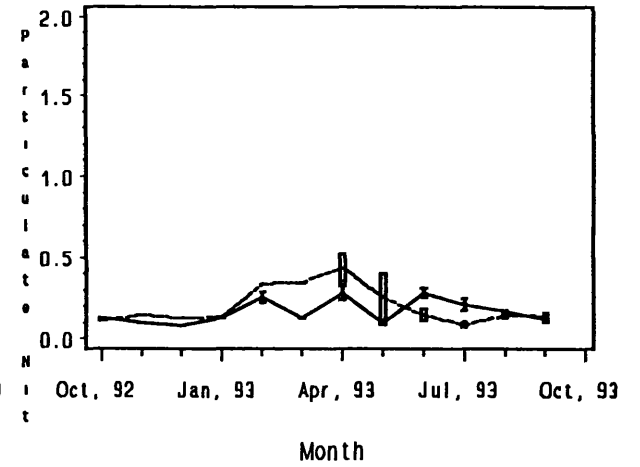
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3

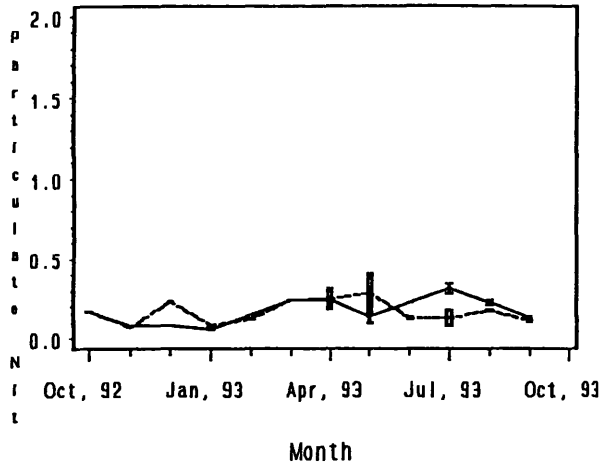


Layer — Surface — Bottom

Layer — Surface — Bottom

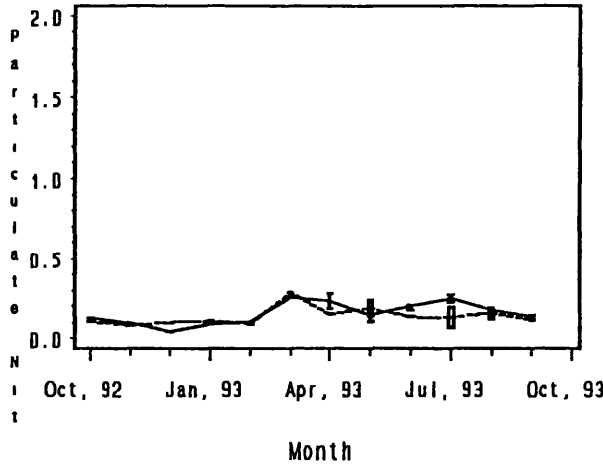
Layer — Surface — Bottom

Station Id=CB6.4



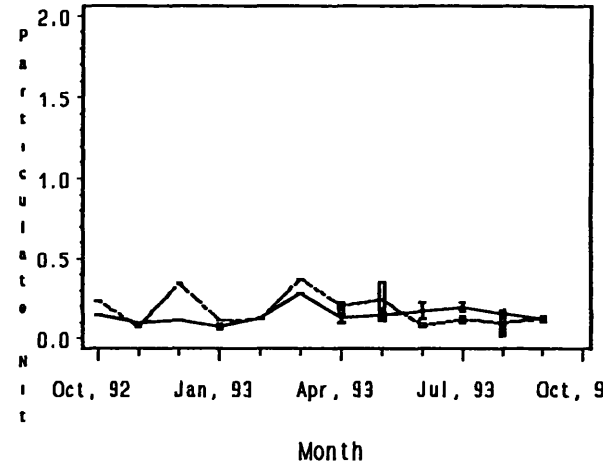
Layer — Surface — Bottom
 Station Id=CB7.4N

Station Id=CB7.3

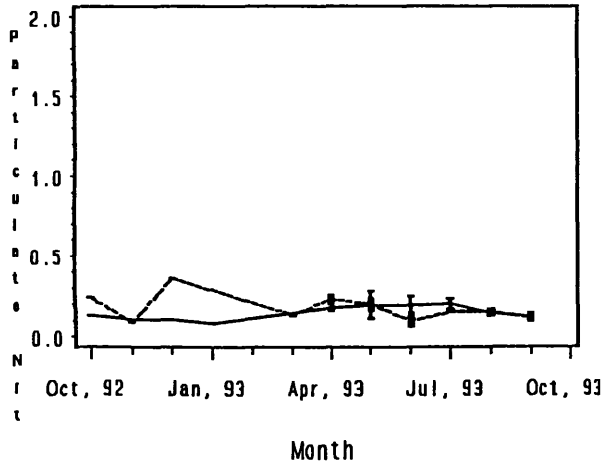


Layer — Surface — Bottom
 Station Id=CB8.1E

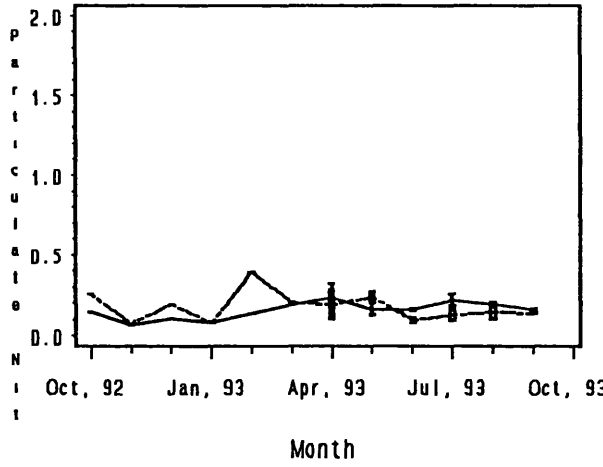
Station Id=CB7.4



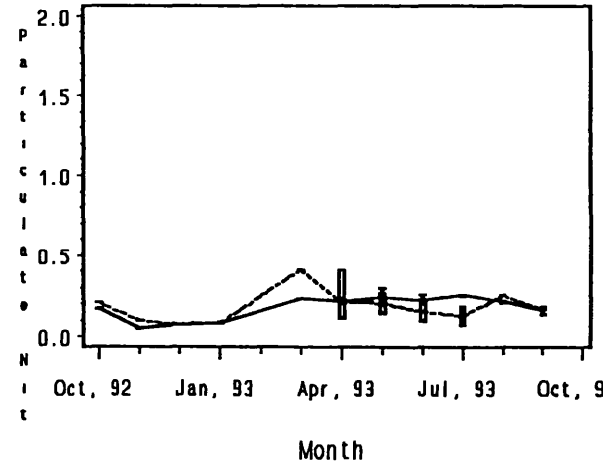
Layer — Surface — Bottom
 Station Id=CB8.1



Layer — Surface — Bottom

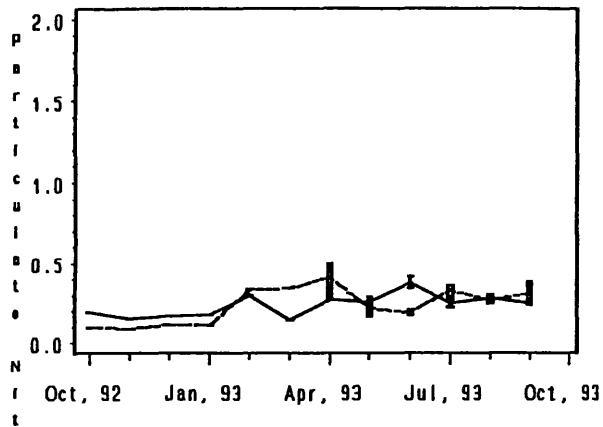


Layer — Surface — Bottom



Layer — Surface — Bottom

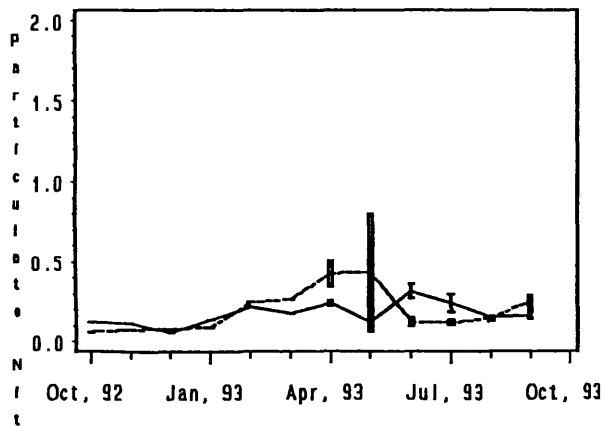
Station Id=EE3.1



Month

Layer — Surface - - - Bottom

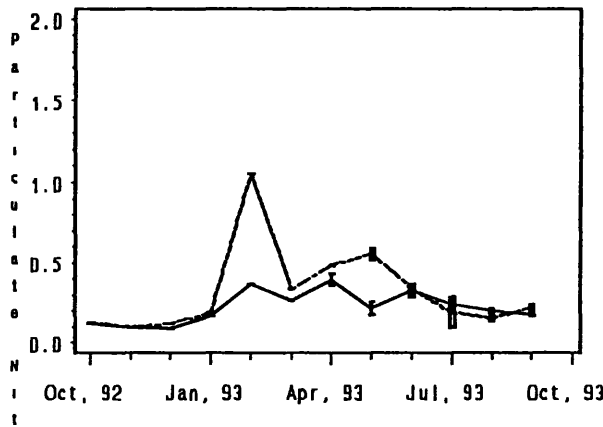
Station Id=CB7.1



Month

Layer — Surface - - - Bottom

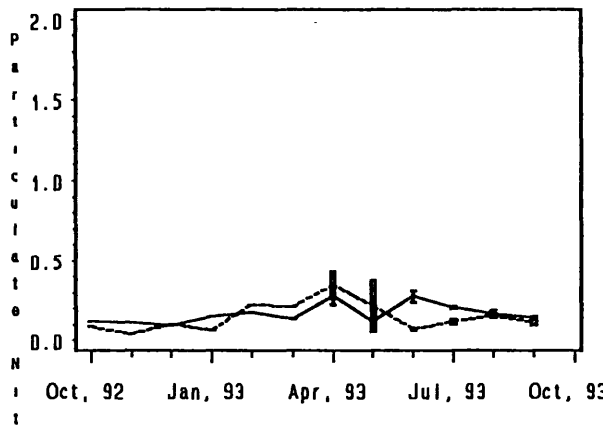
Station Id=EE3.2



Month

Layer — Surface - - - Bottom

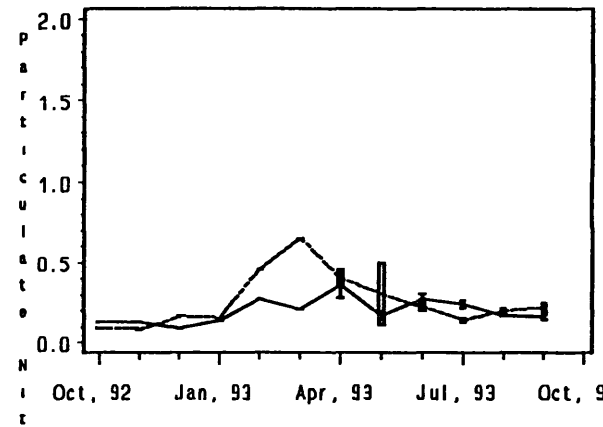
Station Id=CB7.1S



Month

Layer — Surface - - - Bottom

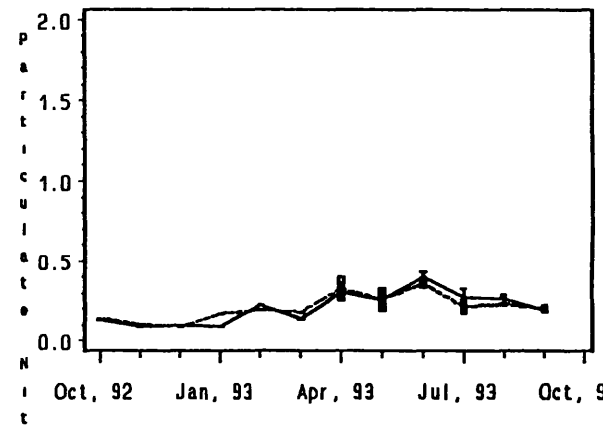
Station Id=CB7.1N



Month

Layer — Surface - - - Bottom

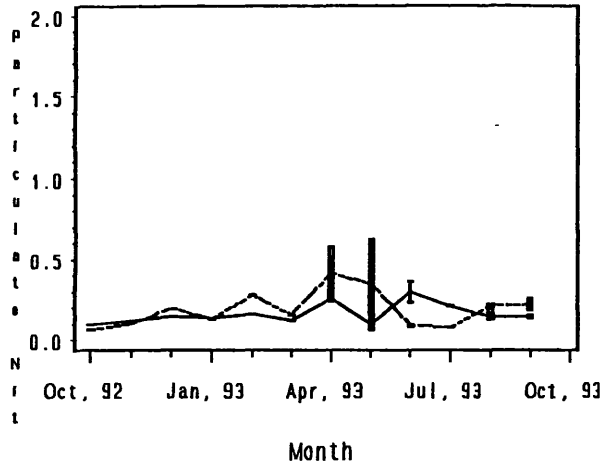
Station Id=CB5.4W



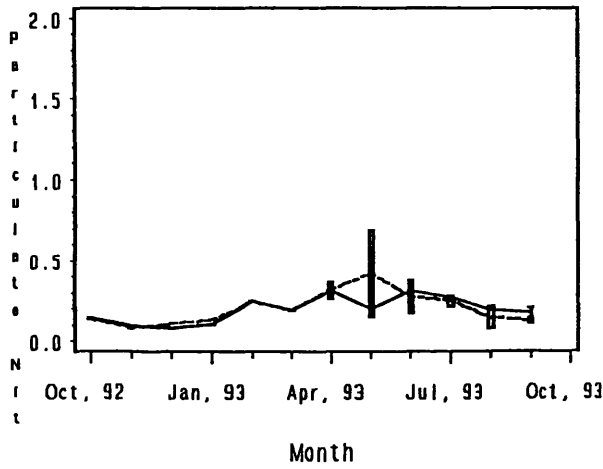
Month

Layer — Surface - - - Bottom

Station Id=CB7.2

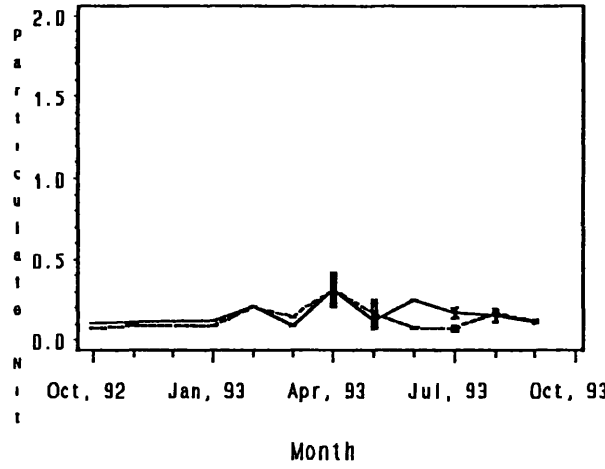


Layer — Surface — Bottom
Station Id=LE3.6

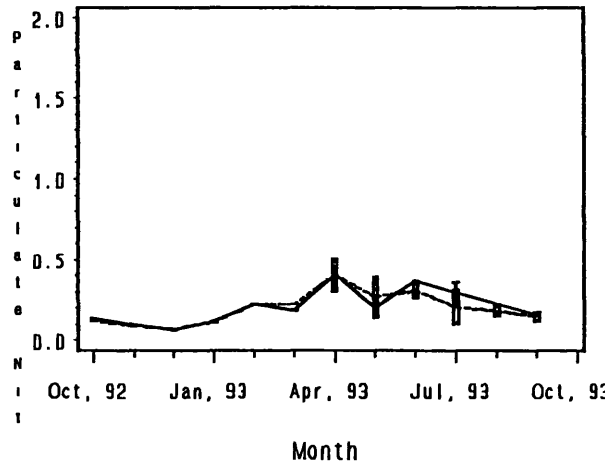


Layer — Surface — Bottom

Station Id=CB7.2E

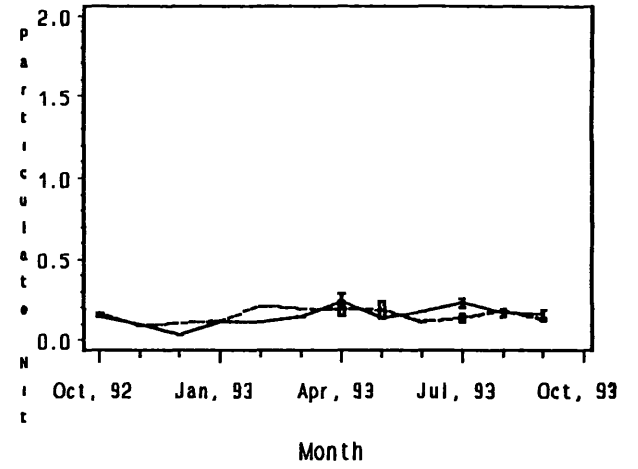


Layer — Surface — Bottom
Station Id=LE3.7



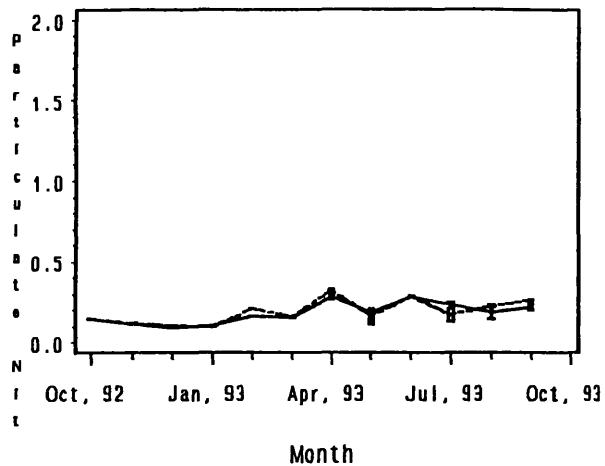
Layer — Surface — Bottom

Station Id=CB7.3E

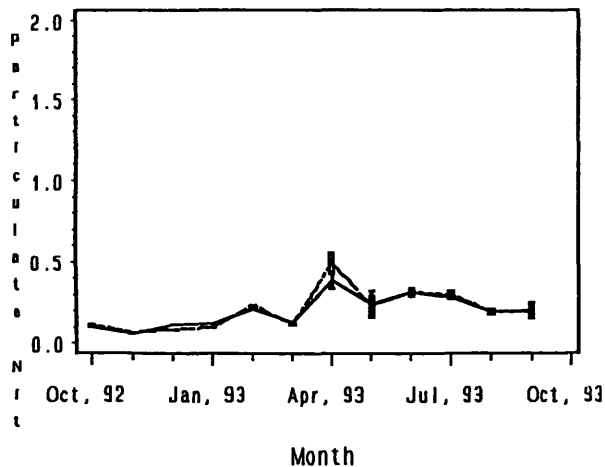


Layer — Surface — Bottom

Station Id=WE4.1

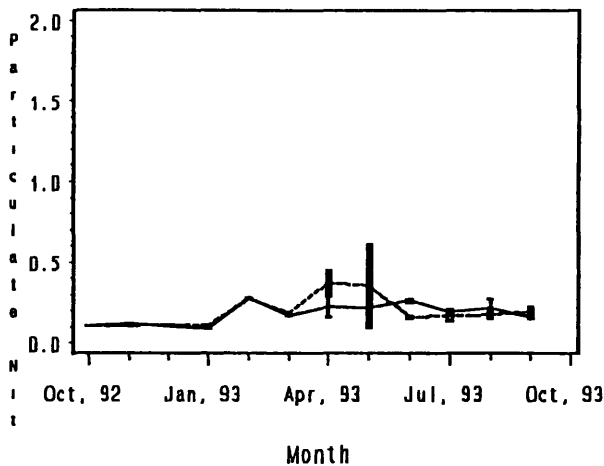


Layer — Surface — Bottom
 Station Id=WE4.4

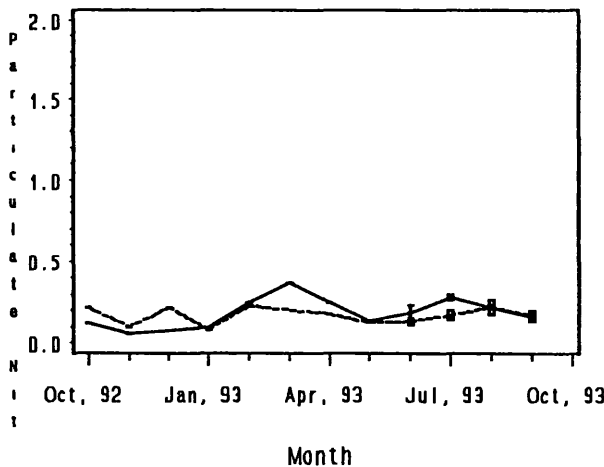


Layer — Surface — Bottom

Station Id=WE4.2

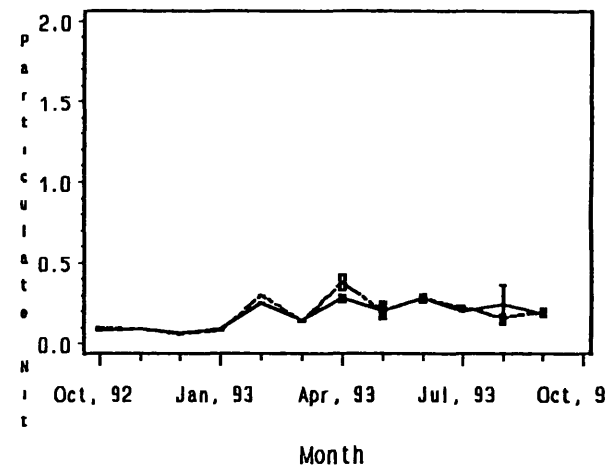


Layer — Surface — Bottom
 Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom

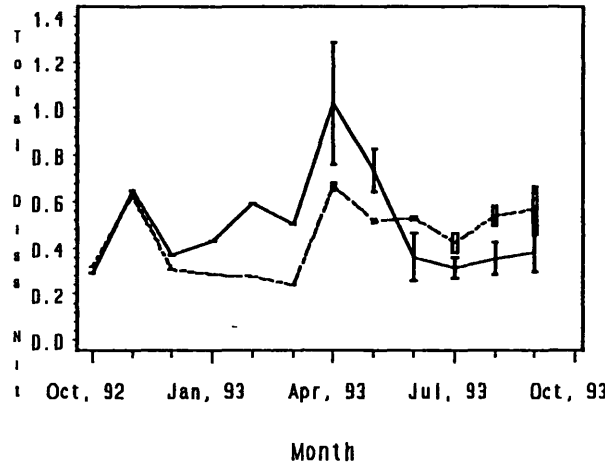
TOTAL DISSOLVED NITROGEN

Values reported as mg/l.

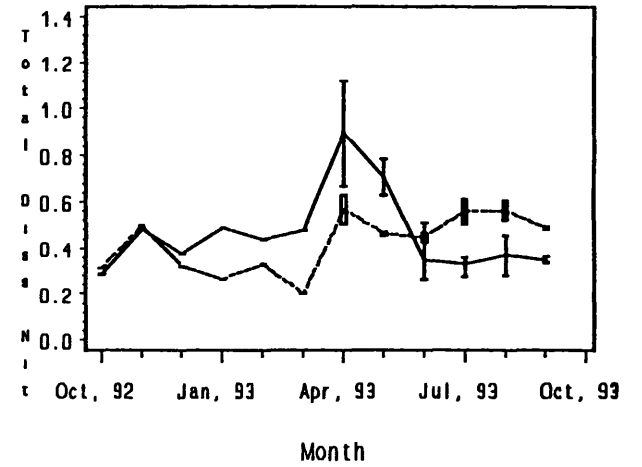
Total Dissolved Nitrogen
October, 1992 - September, 1993

	Total Dissolved Nitrogen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	1.2860	0.5095	0.2570	0.6860	0.4756	0.2400
CB5.5.....	1.1200	0.4606	0.2630	0.6280	0.4498	0.2010
CB6.1.....	0.8520	0.4432	0.2670	0.5570	0.4497	0.2500
CB6.2.....	0.8660	0.3941	0.2450	0.5520	0.4055	0.2240
CB6.3.....	0.7450	0.4108	0.2700	0.6490	0.4091	0.2630
CB6.4.....	0.5010	0.3111	0.1340	0.4550	0.3191	0.1940
CB7.3.....	0.4590	0.2747	0.1510	0.2700	0.1975	0.1390
CB7.4.....	0.4550	0.2197	0.0900	0.2840	0.1703	0.0980
CB7.4N.....	0.4200	0.2196	0.1090	0.3220	0.1706	0.1090
CB8.1E.....	0.4160	0.2454	0.1460	0.2610	0.1877	0.0980
CB8.1.....	0.4600	0.2721	0.2050	0.3540	0.2406	0.1610
EE3.1.....	1.1060	0.4951	0.2910	0.7320	0.4356	0.2750
EE3.2.....	0.9430	0.3936	0.2000	0.6300	0.4097	0.2340
CB7.1N.....	0.7800	0.4201	0.2530	0.6750	0.4407	0.1990
CB7.1.....	0.7580	0.4044	0.2490	0.5540	0.4086	0.2220
CB7.1S.....	0.6140	0.3982	0.2440	0.6010	0.3999	0.2130
CB5.4W.....	0.9040	0.4457	0.3010	0.9230	0.4528	0.2780
CB7.2.....	0.7580	0.3718	0.1720	0.5820	0.3355	0.1200
CB7.2E.....	0.7300	0.3722	0.2060	0.5230	0.3630	0.1510
CB7.3E.....	0.3810	0.2496	0.1550	0.3520	0.2279	0.1420
LE3.6.....	0.6470	0.3819	0.2580	0.8170	0.4400	0.2660
LE3.7.....	0.5960	0.3464	0.1860	0.6150	0.3784	0.2180
WE4.1.....	0.5210	0.3366	0.1960	0.7230	0.3718	0.1660
WE4.2.....	0.6150	0.3669	0.1910	0.6820	0.4259	0.2090
WE4.3.....	0.5380	0.3382	0.1840	0.6110	0.3395	0.1840
WE4.4.....	0.5280	0.3317	0.1980	0.4920	0.3396	0.2300
LE5.5.....	0.4830	0.2921	0.1980	0.2960	0.2391	0.2020

Station Id=CB5.4



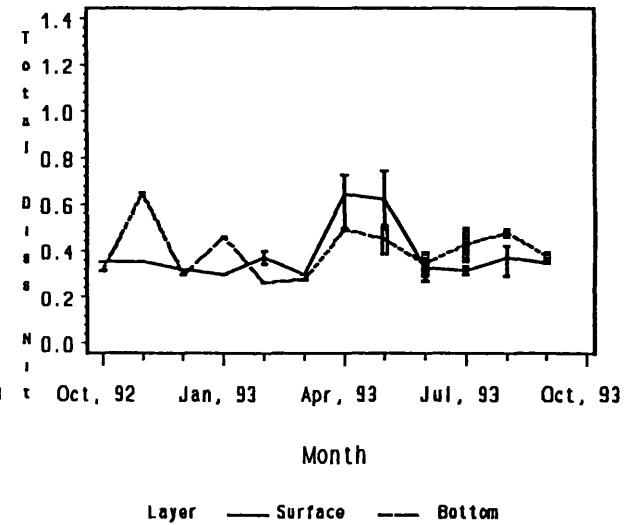
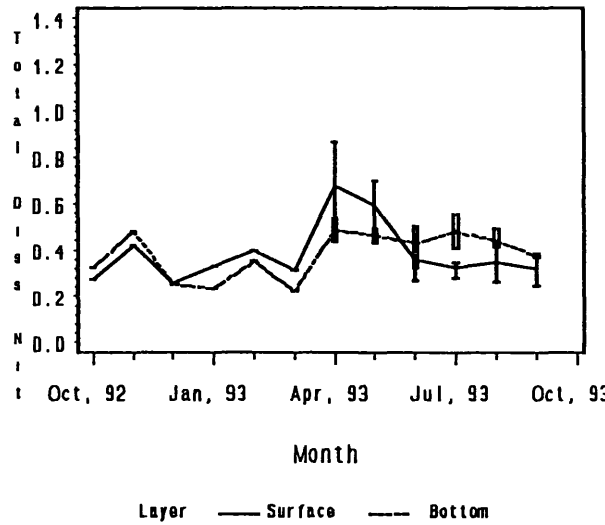
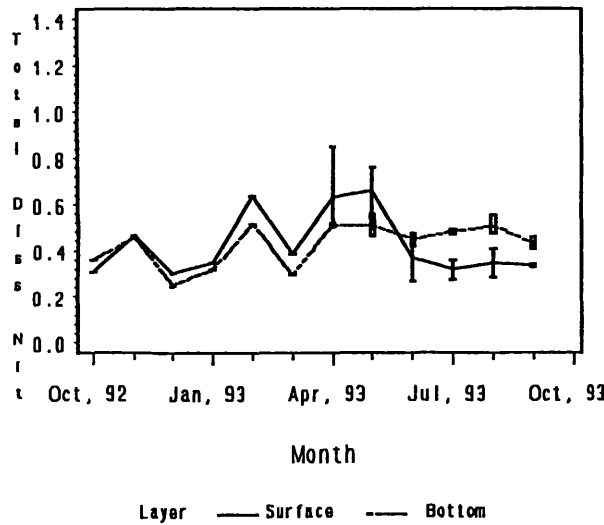
Station Id=CB5.5



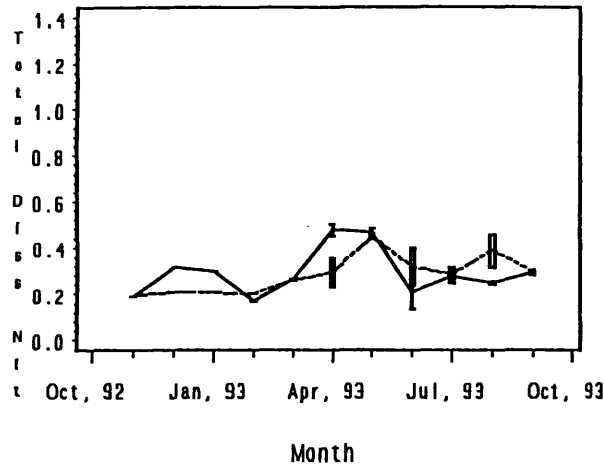
Layer — Surface — Bottom
Station Id=CB6.2

Layer — Surface — Bottom
Station Id=CB6.3

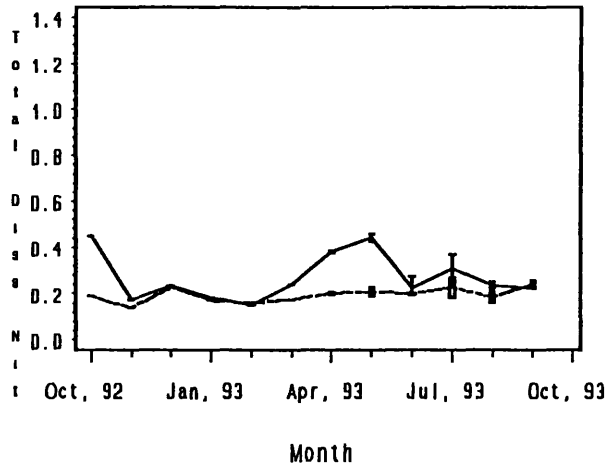
Station Id=CB6.1



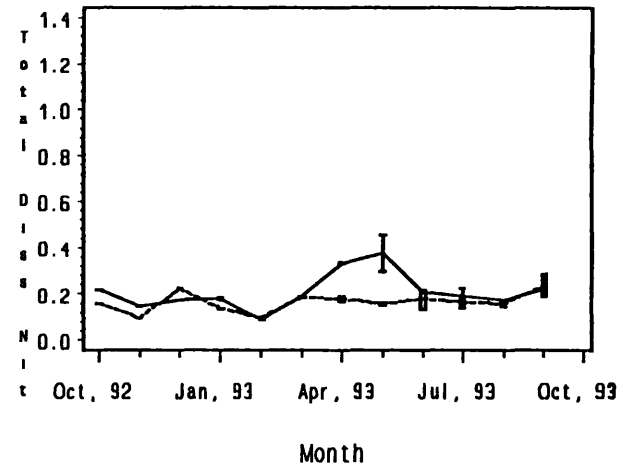
Station Id=CB6.4



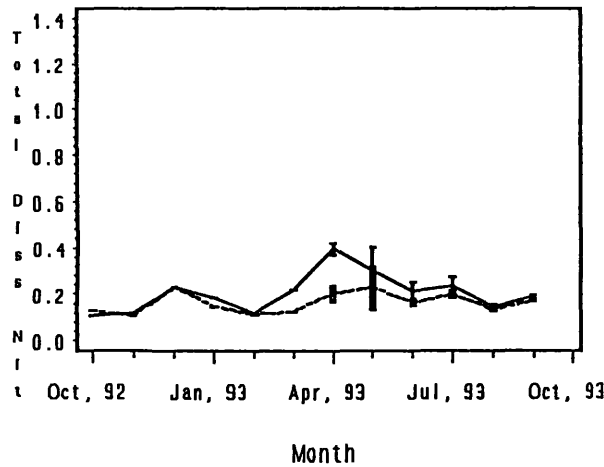
Station Id=CB7.3



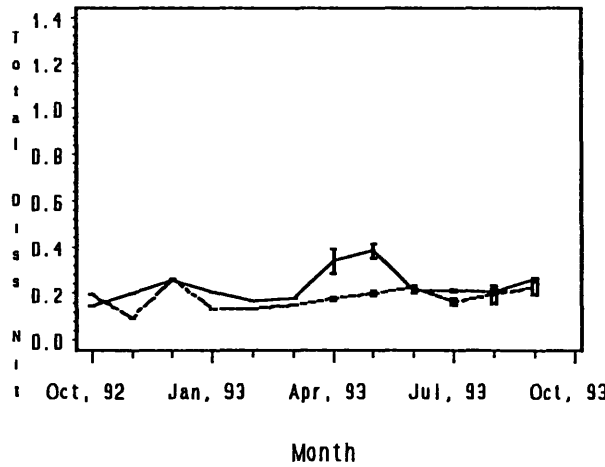
Station Id=CB7.4



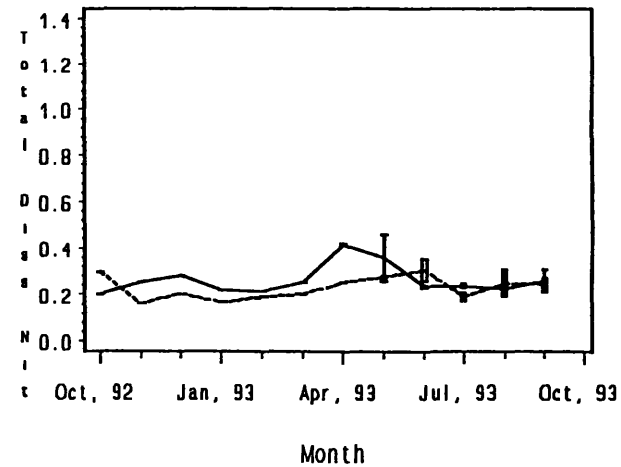
Station Id=CB7.4N



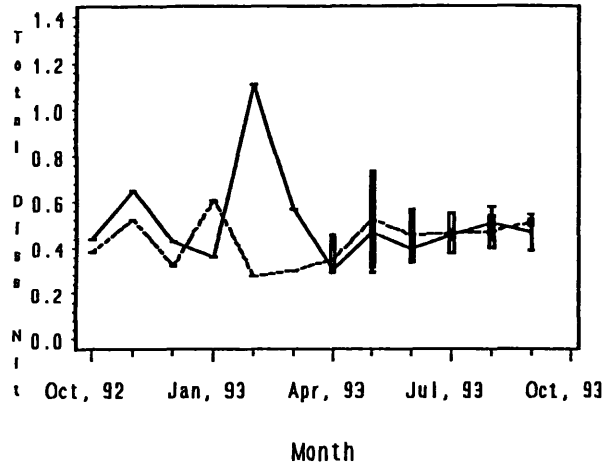
Station Id=CB8.1E



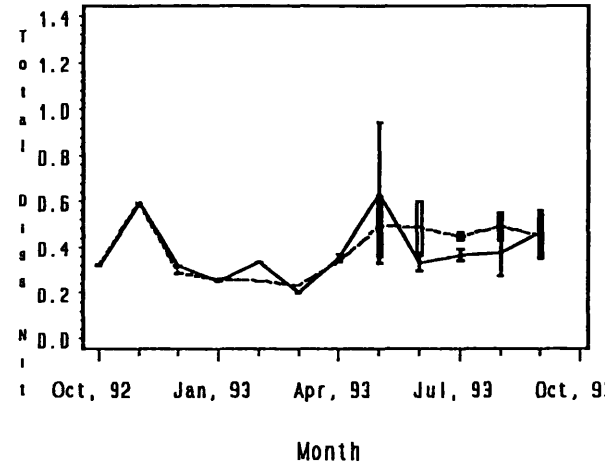
Station Id=CB8.1



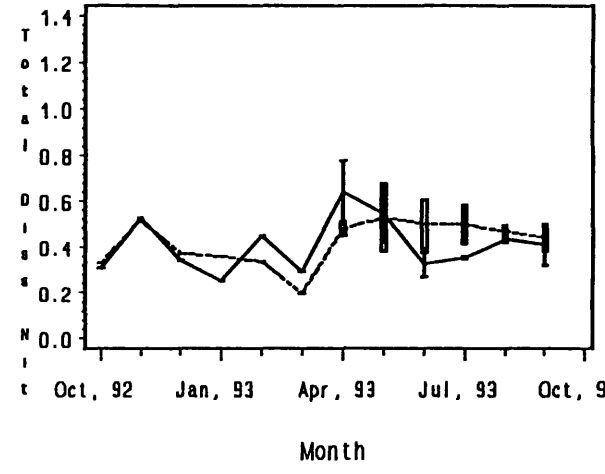
Station Id=EE3.1



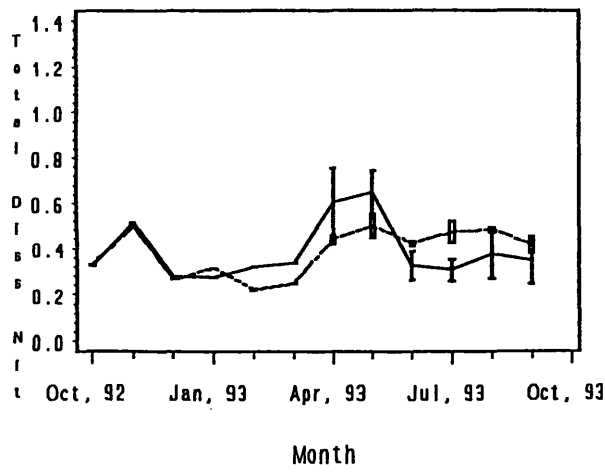
Station Id=EE3.2



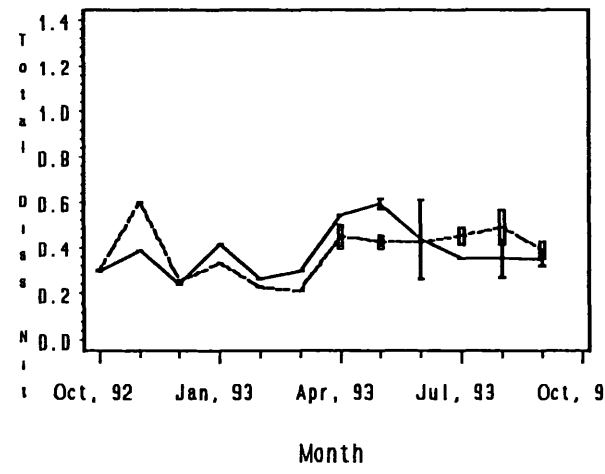
Station Id=CB7.1N



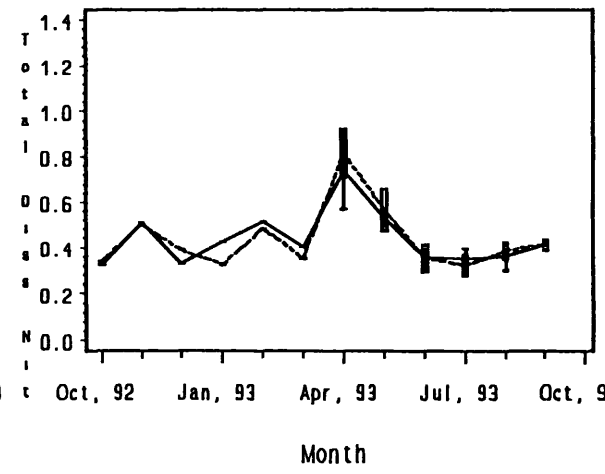
Layer — Surface — Bottom
Station Id=CB7.1



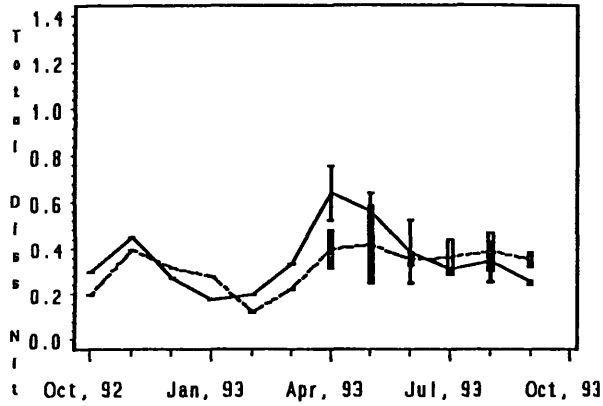
Layer — Surface — Bottom
Station Id=CB7.1S



Layer — Surface — Bottom
Station Id=CB5.4W



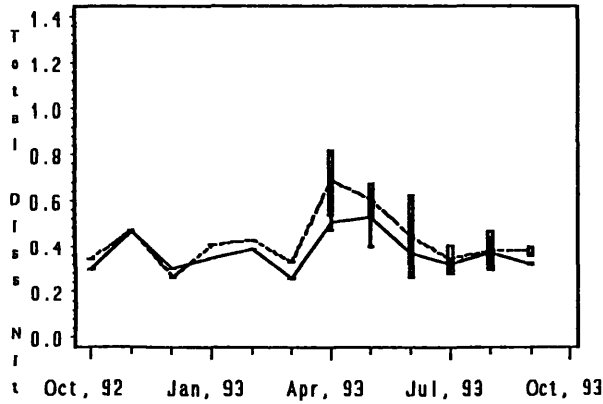
Station Id=CB7.2



Month

Layer — Surface — Bottom

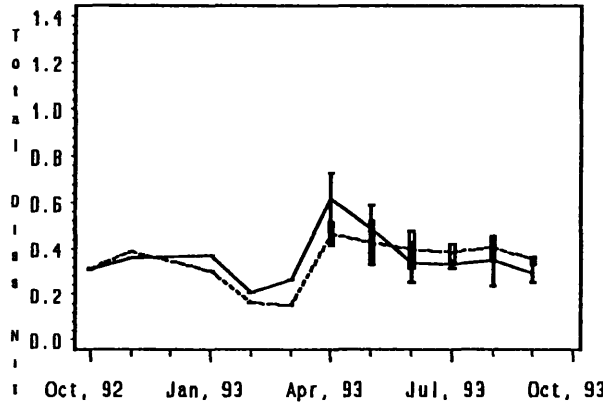
Station Id=LE3.6



Month

Layer — Surface — Bottom

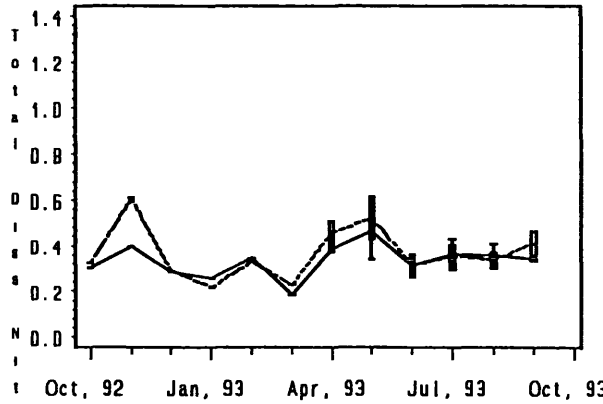
Station Id=CB7.2E



Month

Layer — Surface — Bottom

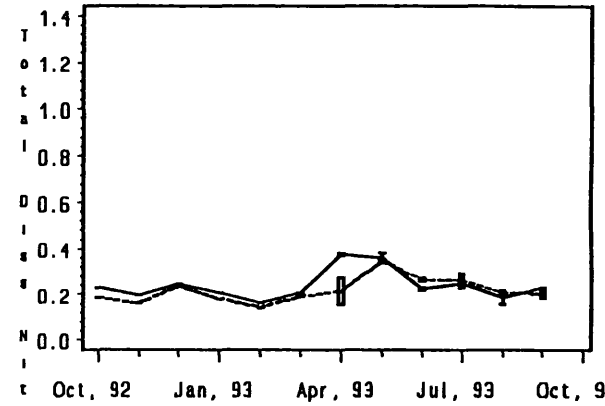
Station Id=LE3.7



Month

Layer — Surface — Bottom

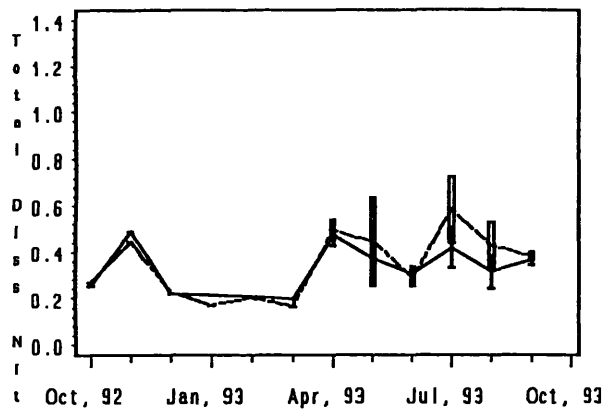
Station Id=CB7.3E



Month

Layer — Surface — Bottom

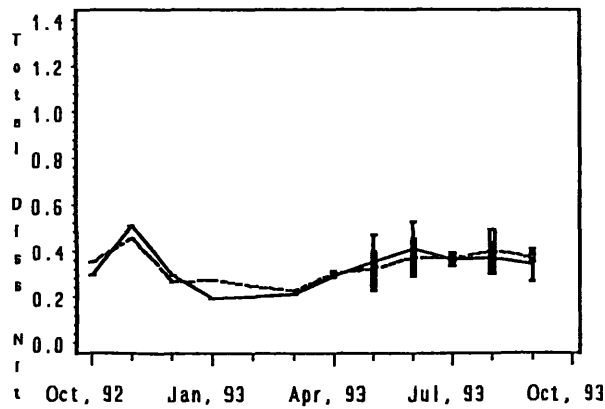
Station Id=WE4.1



Month

Layer — Surface — Bottom

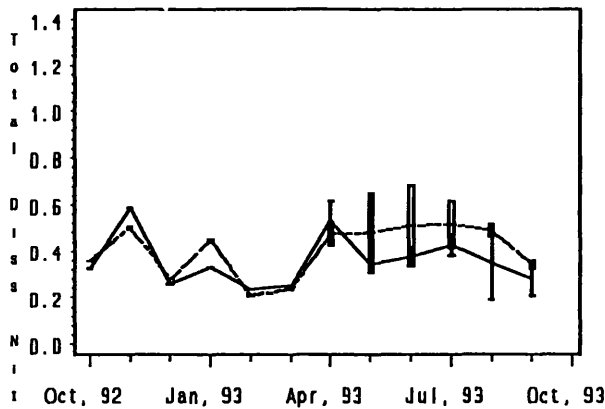
Station Id=WE4.4



Month

Layer — Surface — Bottom

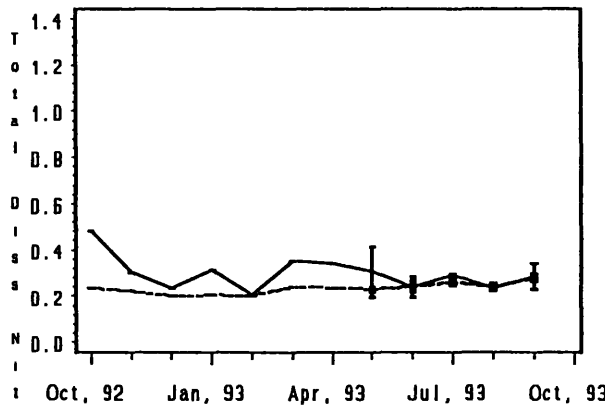
Station Id=WE4.2



Month

Layer — Surface — Bottom

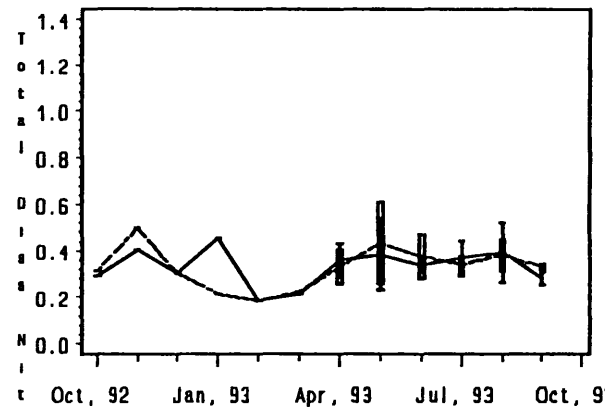
Station Id=LE5.5



Month

Layer — Surface — Bottom

Station Id=WE4.3



Month

Layer — Surface — Bottom

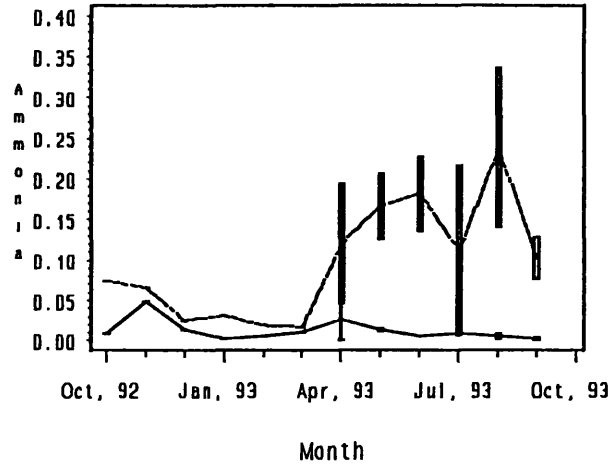
AMMONIA

Values reported as mg/l.

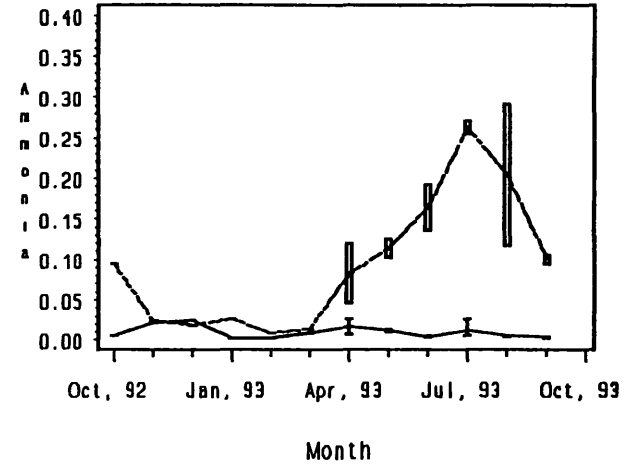
Ammonia
October, 1992 - September, 1993

	Ammonia (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.0513	0.0115	0.0008	0.3352	0.1152	0.0072
CB5.5.....	0.0265	0.0093	0.0020	0.2904	0.1132	0.0080
CB6.1.....	0.0348	0.0093	0.0016	0.2337	0.0945	0.0090
CB6.2.....	0.0299	0.0104	0.0008	0.2297	0.0762	0.0050
CB6.3.....	0.0371	0.0105	0.0008	0.2126	0.0687	0.0020
CB6.4.....	0.0420	0.0100	0.0028	0.1509	0.0521	0.0028
CB7.3.....	0.0290	0.0058	0.0028	0.0671	0.0240	0.0030
CB7.4.....	0.0340	0.0080	0.0028	0.0695	0.0164	0.0028
CB7.4N.....	0.0280	0.0064	0.0028	0.0370	0.0072	0.0028
CB8.1E.....	0.0365	0.0115	0.0028	0.0811	0.0276	0.0030
CB8.1.....	0.0440	0.0134	0.0028	0.0885	0.0399	0.0028
EE3.1.....	0.0163	0.0065	0.0008	0.1614	0.0228	0.0008
EE3.2.....	0.0640	0.0182	0.0020	0.1975	0.0571	0.0029
CB7.1N.....	0.0688	0.0173	0.0019	0.1810	0.0768	0.0050
CB7.1.....	0.0270	0.0082	0.0008	0.2355	0.0872	0.0050
CB7.1S.....	0.0360	0.0079	0.0008	0.1664	0.0695	0.0088
CB5.4W.....	0.0420	0.0099	0.0008	0.0543	0.0155	0.0020
CB7.2.....	0.0180	0.0073	0.0008	0.1490	0.0593	0.0020
CB7.2E.....	0.0453	0.0129	0.0020	0.1306	0.0510	0.0020
CB7.3E.....	0.0290	0.0076	0.0028	0.0853	0.0276	0.0028
LE3.6.....	0.0232	0.0062	0.0008	0.1016	0.0272	0.0020
LE3.7.....	0.0180	0.0064	0.0008	0.0544	0.0141	0.0008
WE4.1.....	0.0173	0.0068	0.0008	0.1711	0.0282	0.0008
WE4.2.....	0.0930	0.0301	0.0033	0.3511	0.1215	0.0065
WE4.3.....	0.0199	0.0068	0.0008	0.0448	0.0118	0.0020
WE4.4.....	0.0136	0.0055	0.0008	0.0280	0.0053	0.0008
LE5.5.....	0.1080	0.0229	0.0028	0.1006	0.0379	0.0028

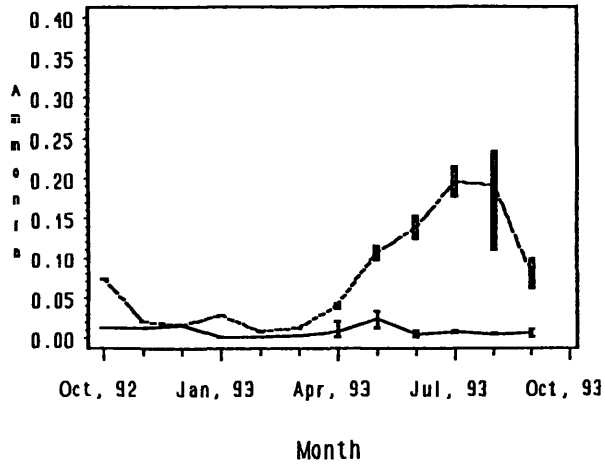
Station Id=CB5.4



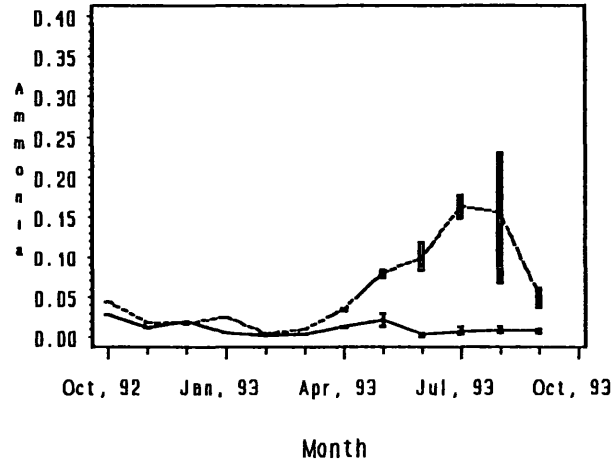
Station Id=CB5.5



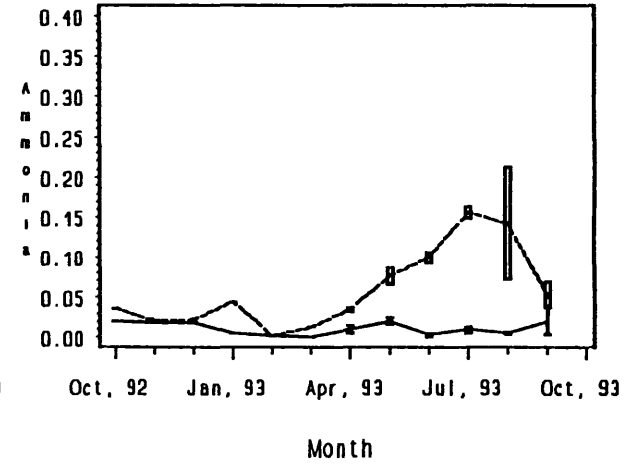
Station Id=CB6.1



Station Id=CB5.2



Station Id=CB6.3

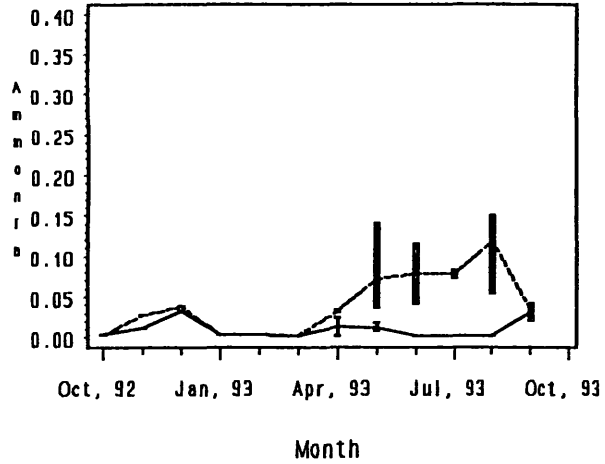


Layer — Surface - - - Bottom

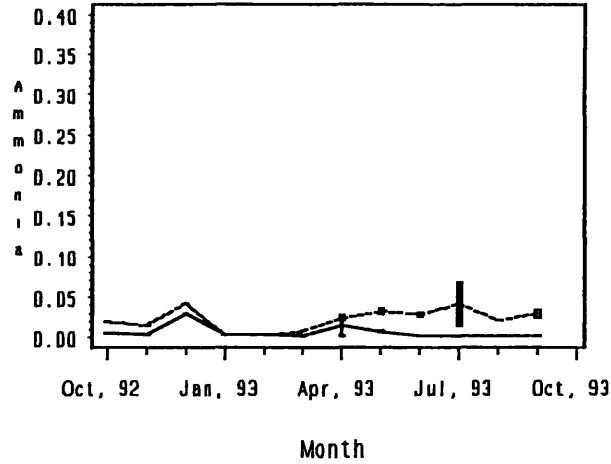
Layer — Surface - - - Bottom

Layer — Surface - - - Bottom

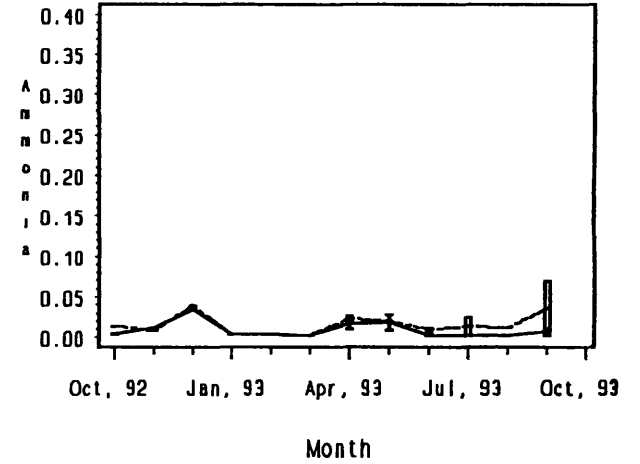
Station Id=CB6.4



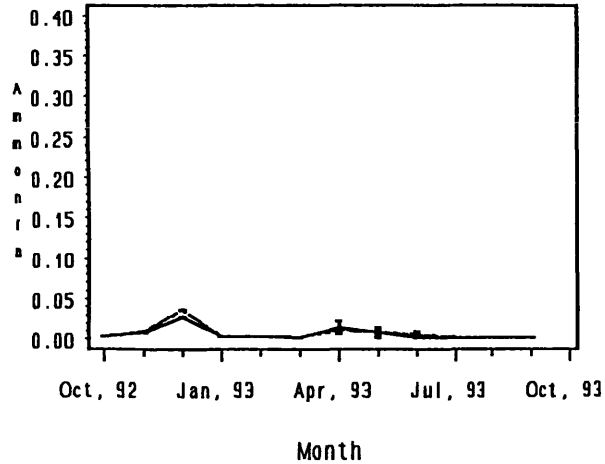
Station Id=CB7.3



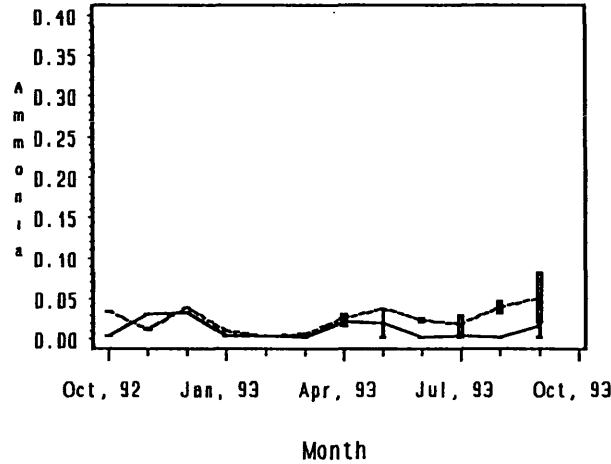
Station Id=CB7.4



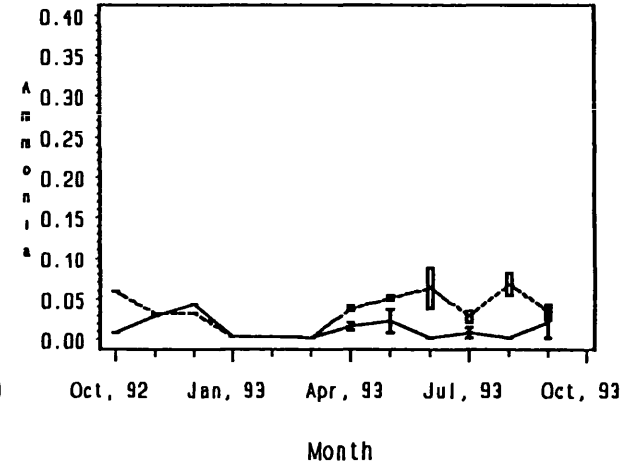
Station Id=CB7.4N



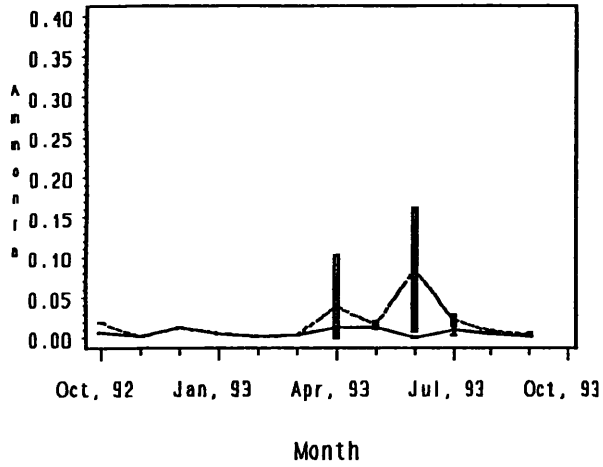
Station Id=CB8.1E



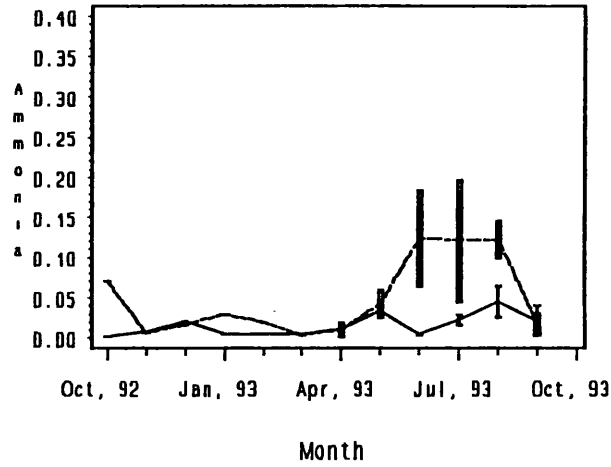
Station Id=CB8.1



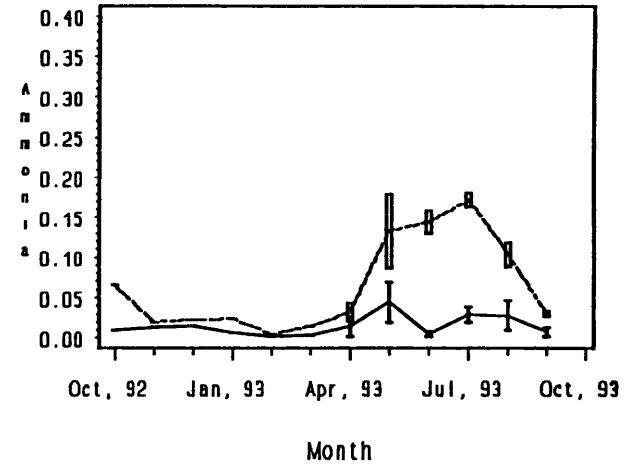
Station Id=EE3.1



Station Id=EE3.2



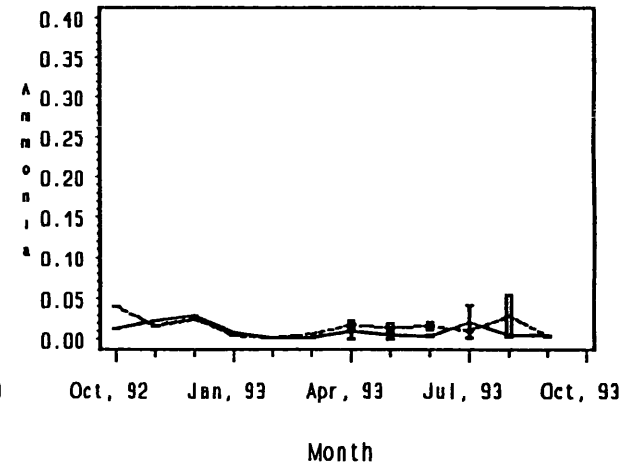
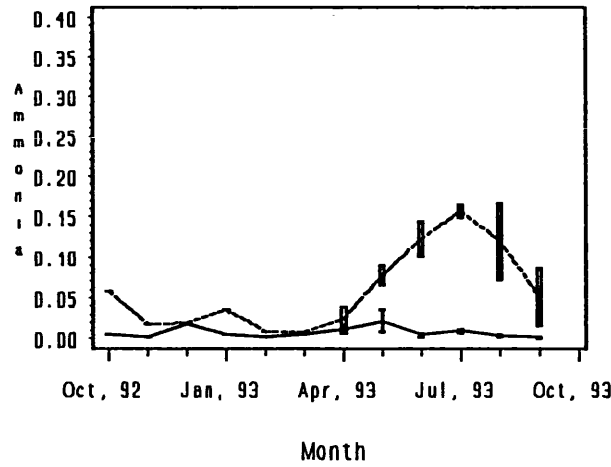
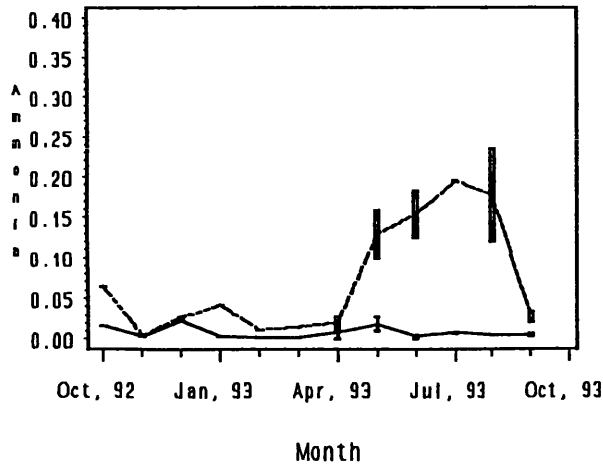
Station Id=CB7.1N



Layer — Surface — Bottom
Station Id=CB7.1

Layer — Surface — Bottom
Station Id=CB7.1S

Layer — Surface — Bottom
Station Id=CB5.4W

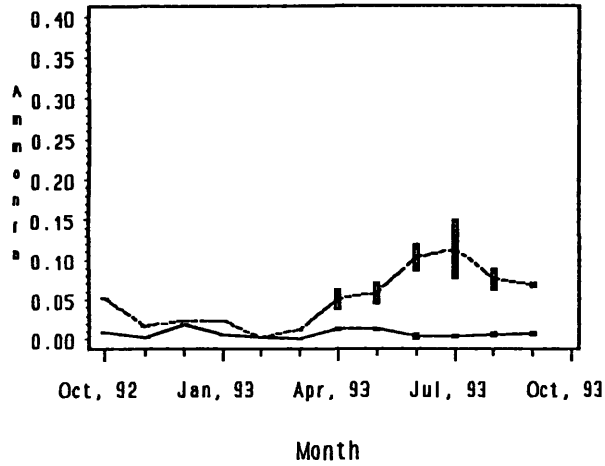


Layer — Surface — Bottom

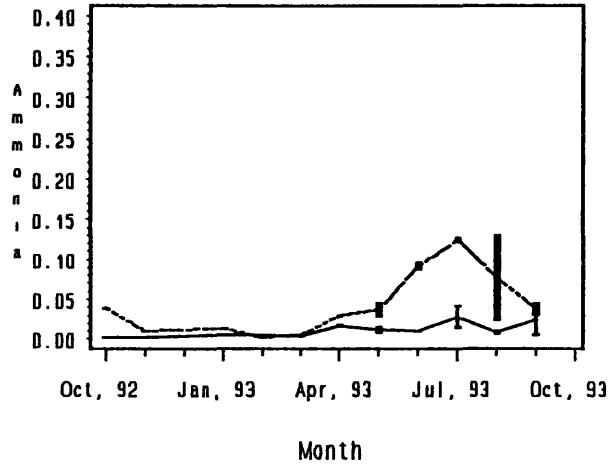
Layer — Surface — Bottom

Layer — Surface — Bottom

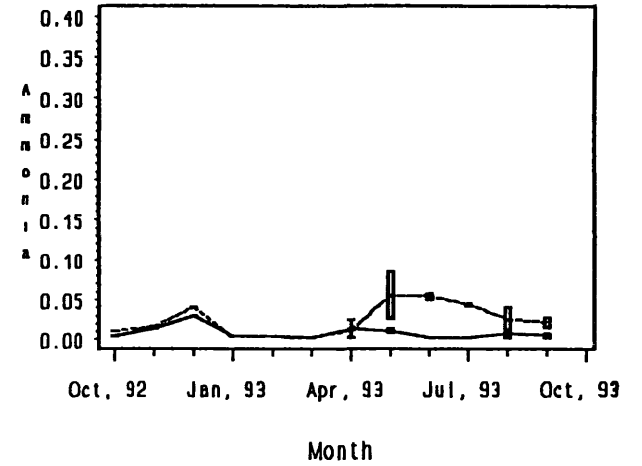
Station Id=CB7.2



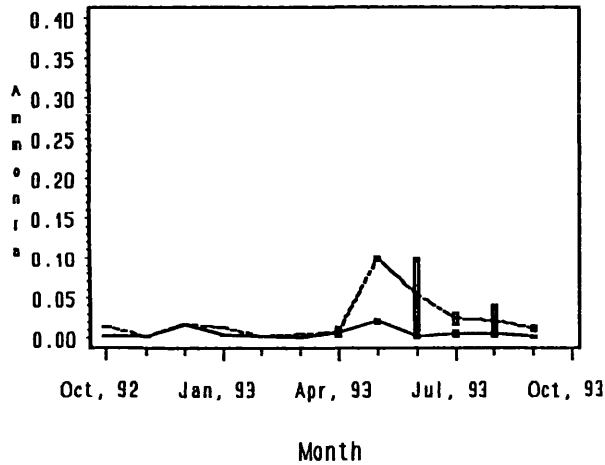
Station Id=CB7.2E



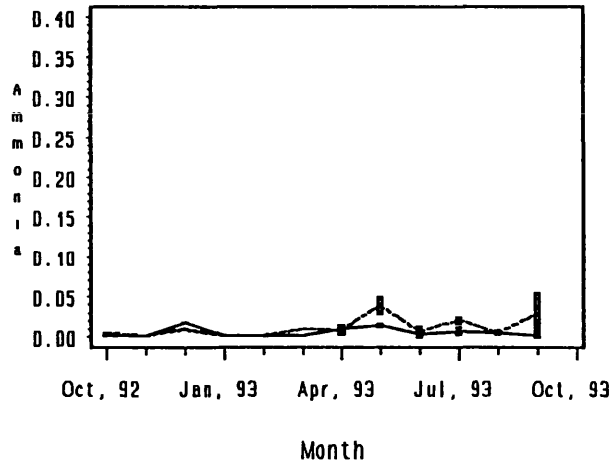
Station Id=CB7.3E



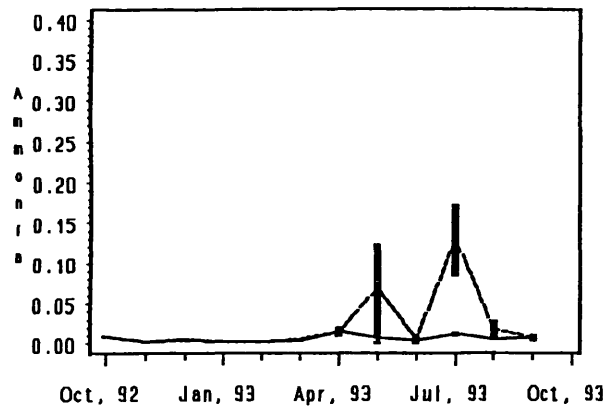
Layer — Surface — Bottom
Station Id=LE3.6



Layer — Surface — Bottom
Station Id=LE3.7



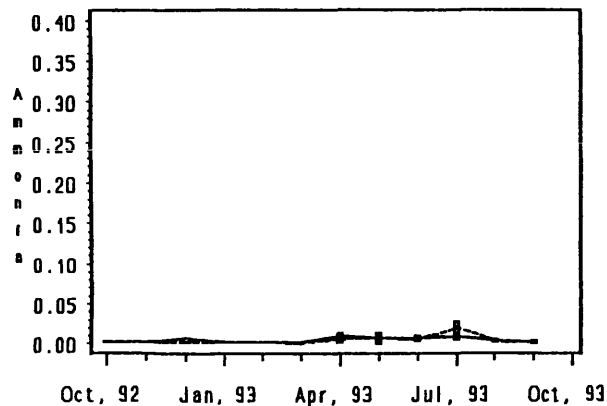
Station Id=WE4.1



Month

Layer — Surface - - - Bottom

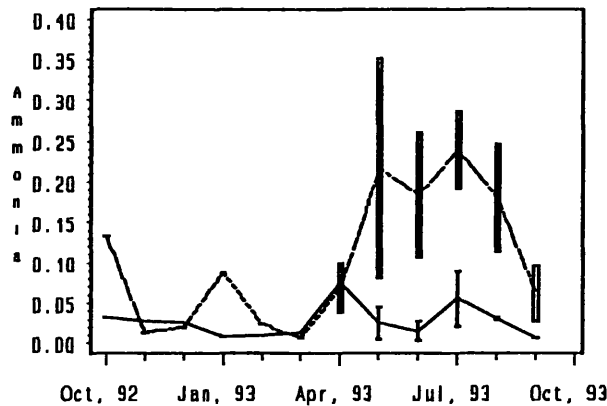
Station Id=WE4.4



Month

Layer — Surface - - - Bottom

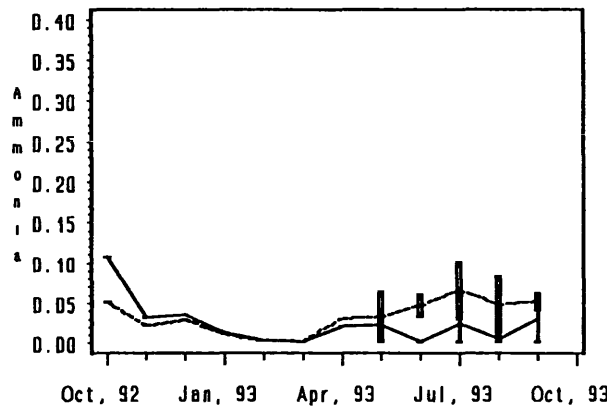
Station Id=WE4.2



Month

Layer — Surface - - - Bottom

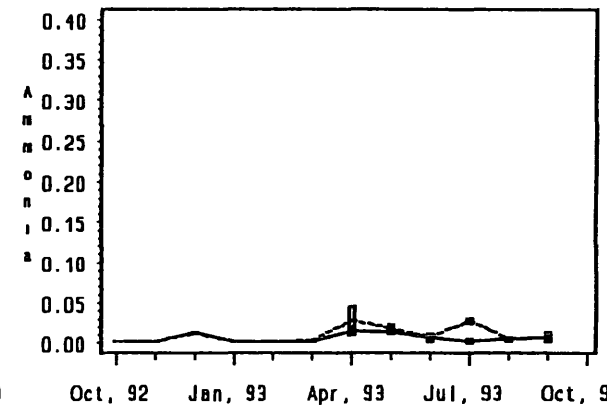
Station Id=LE5.5



Month

Layer — Surface - - - Bottom

Station Id=WE4.3



Month

Layer — Surface - - - Bottom

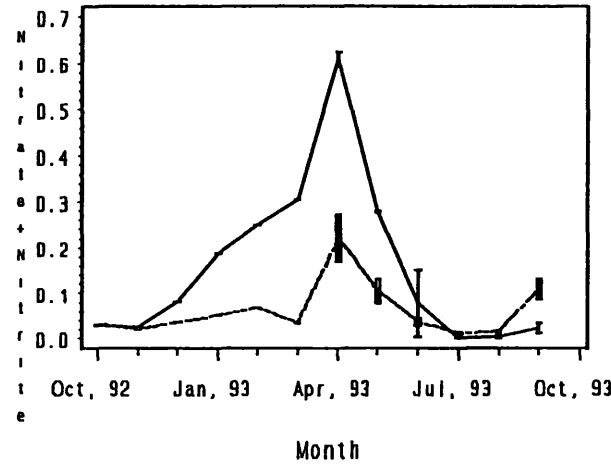
NITRATE + NITRITE

Values reported as mg/l.

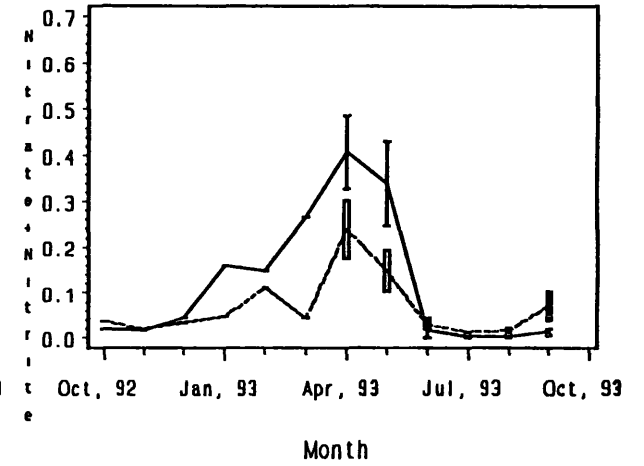
Nitrate+Nitrite
October, 1992 - September, 1993

	Nitrate+Nitrite (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.6251	0.1596	0.0013	0.2710	0.0694	0.0061
CB5.5.....	0.4869	0.1126	0.0010	0.3032	0.0744	0.0113
CB6.1.....	0.5045	0.1439	0.0017	0.2963	0.0813	0.0134
CB6.2.....	0.5536	0.1044	0.0004	0.3032	0.0602	0.0071
CB6.3.....	0.3523	0.1069	0.0011	0.2802	0.0614	0.0065
CB6.4.....	0.3156	0.0855	0.0012	0.1566	0.0524	0.0012
CB7.3.....	0.2350	0.0522	0.0012	0.0394	0.0149	0.0012
CB7.4.....	0.1707	0.0312	0.0012	0.0337	0.0112	0.0012
CB7.4N.....	0.1942	0.0371	0.0012	0.0743	0.0139	0.0012
CB8.1E.....	0.1426	0.0348	0.0012	0.0342	0.0129	0.0033
CB8.1.....	0.1541	0.0446	0.0012	0.3445	0.0516	0.0037
EE3.1.....	0.3452	0.0447	0.0004	0.0929	0.0281	0.0015
EE3.2.....	0.1374	0.0370	0.0020	0.1005	0.0382	0.0040
CB7.1N.....	0.4421	0.1054	0.0011	0.2135	0.0623	0.0074
CB7.1.....	0.3818	0.0885	0.0024	0.2227	0.0509	0.0080
CB7.1S.....	0.3969	0.1019	0.0013	0.2756	0.0539	0.0077
CB5.4W.....	0.4141	0.1258	0.0004	0.5447	0.1216	0.0012
CB7.2.....	0.3862	0.1004	0.0016	0.2227	0.0380	0.0049
CB7.2E.....	0.3192	0.0835	0.0004	0.1407	0.0445	0.0043
CB7.3E.....	0.2466	0.0482	0.0012	0.0969	0.0231	0.0012
LE3.6.....	0.2112	0.0741	0.0013	0.5179	0.1165	0.0004
LE3.7.....	0.1535	0.0371	0.0012	0.4208	0.0742	0.0004
WE4.1.....	0.2002	0.0283	0.0014	0.2077	0.0353	0.0015
WE4.2.....	0.1401	0.0373	0.0020	0.1540	0.0414	0.0022
WE4.3.....	0.1685	0.0230	0.0004	0.1708	0.0253	0.0010
WE4.4.....	0.1236	0.0107	0.0008	0.1512	0.0166	0.0004
LE5.5.....	0.1906	0.0582	0.0012	0.0566	0.0232	0.0027

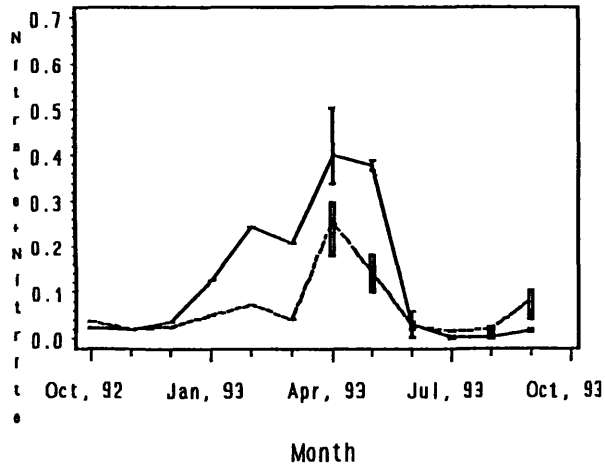
Station Id=CB5.4



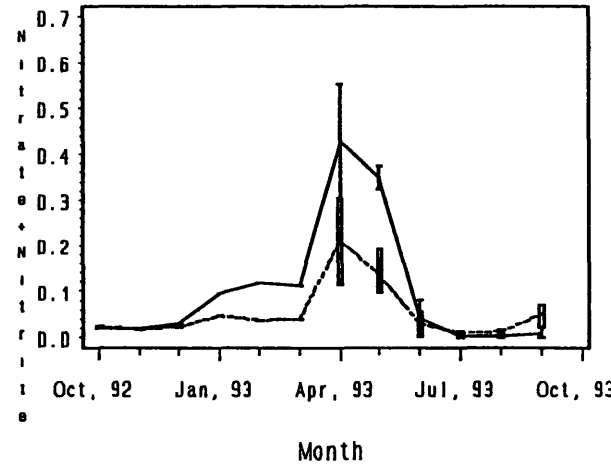
Station Id=CB5.5



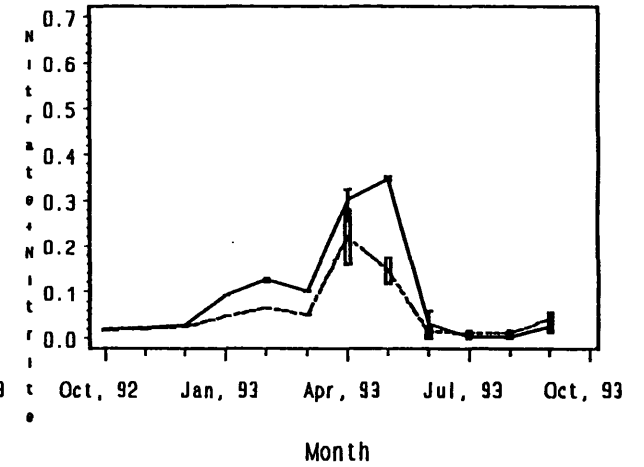
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3

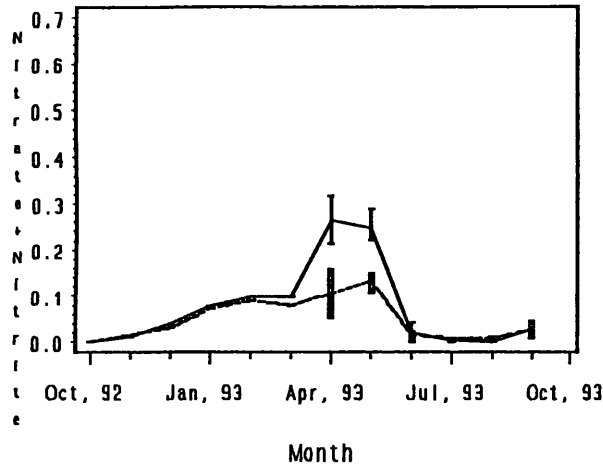


Layer — Surface — Bottom

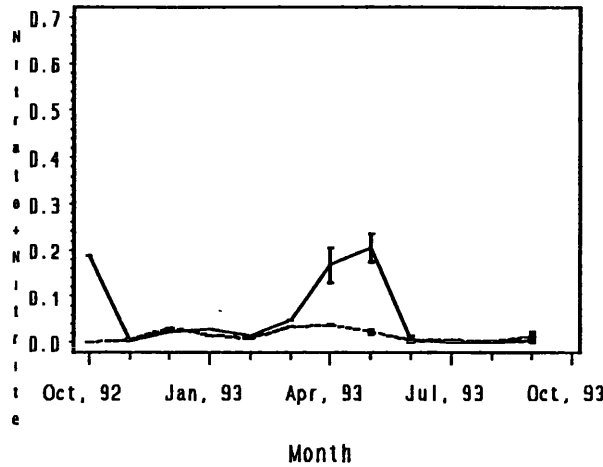
Layer — Surface — Bottom

Layer — Surface — Bottom

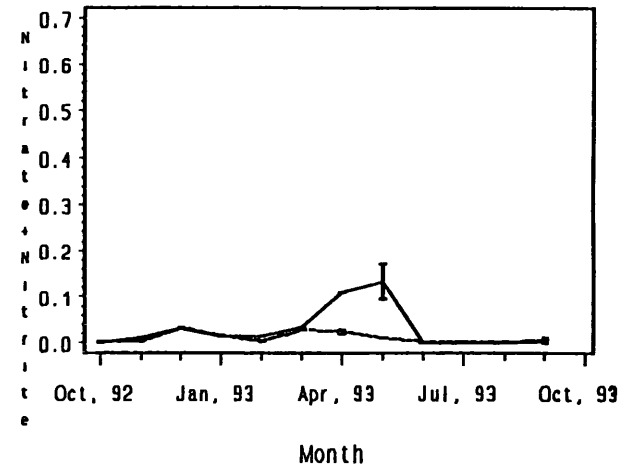
Station Id=CB6.4



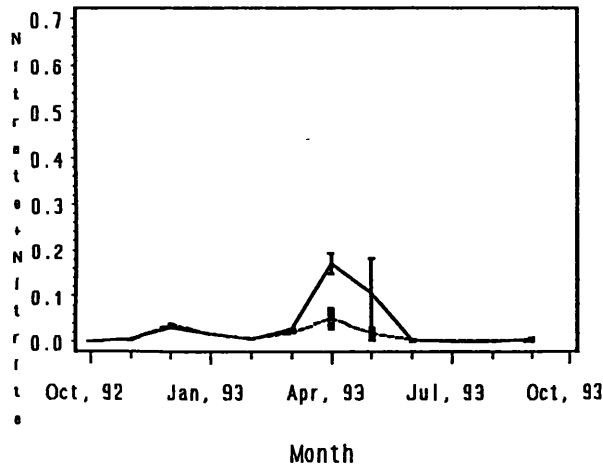
Station Id=CB7.3



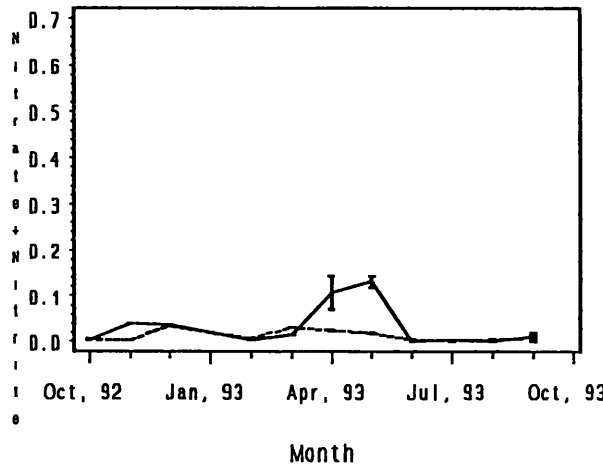
Station Id=CB7.4



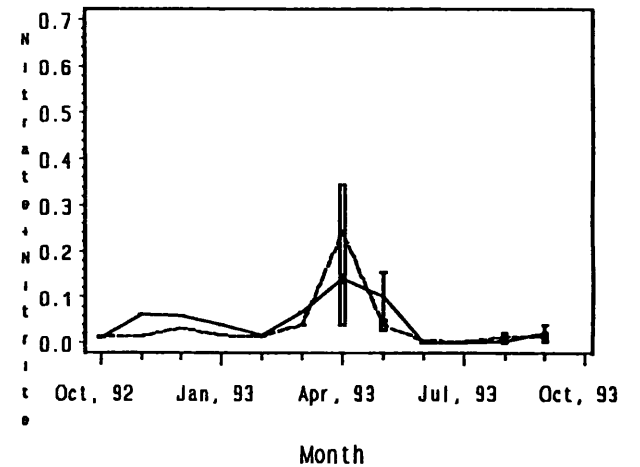
Station Id=CB7.4N



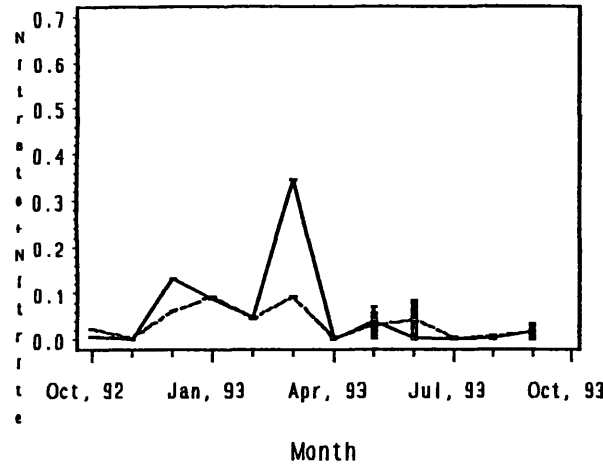
Station Id=CB8.1E



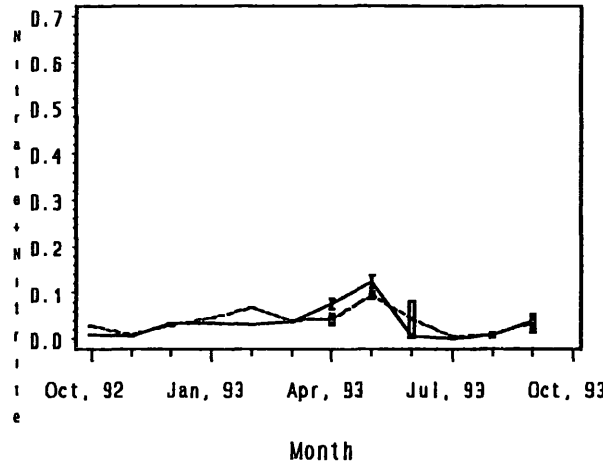
Station Id=CB8.1



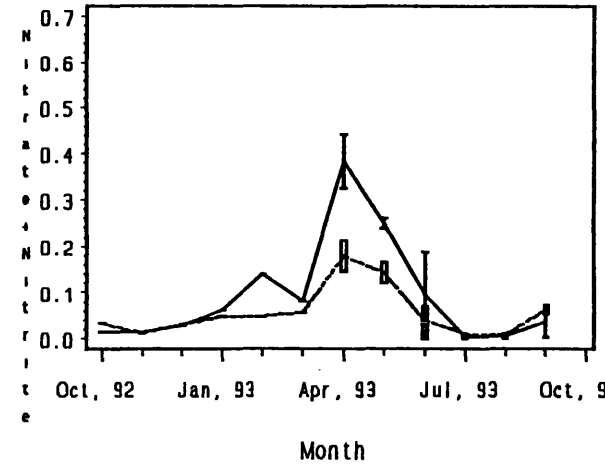
Station Id=EE3.1



Station Id=EE3.2



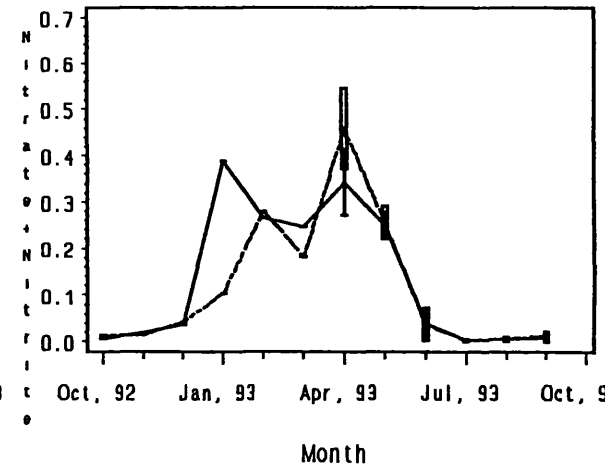
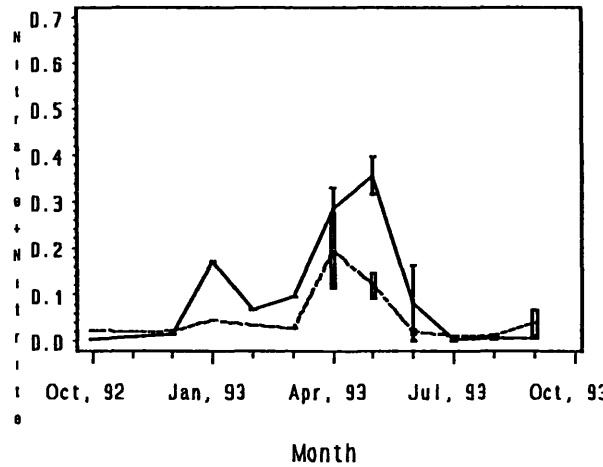
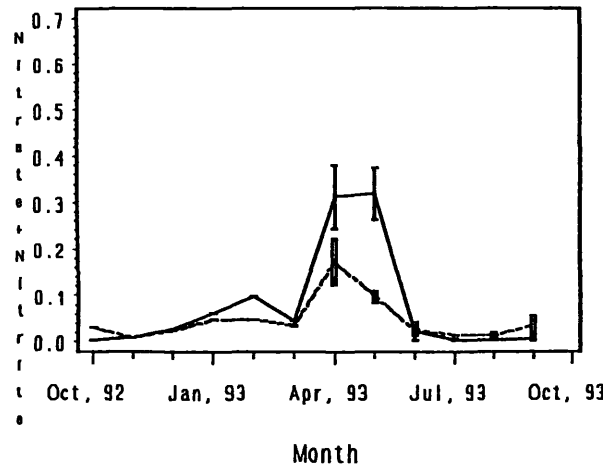
Station Id=CB7.1N



Layer — Surface — Bottom
Station Id=CB7.1

Layer — Surface — Bottom
Station Id=CB7.1S

Layer — Surface — Bottom
Station Id=CB5.4W

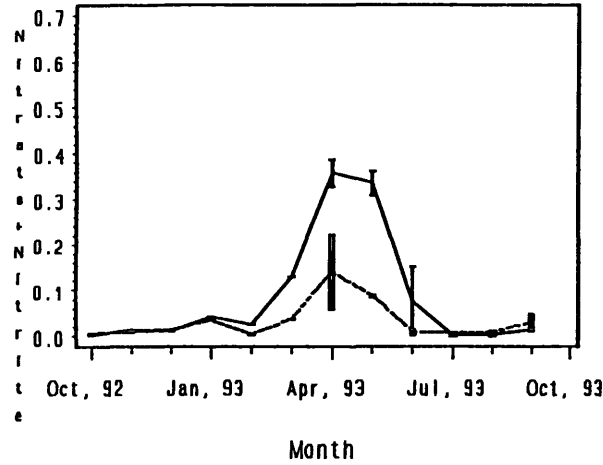


Layer — Surface — Bottom

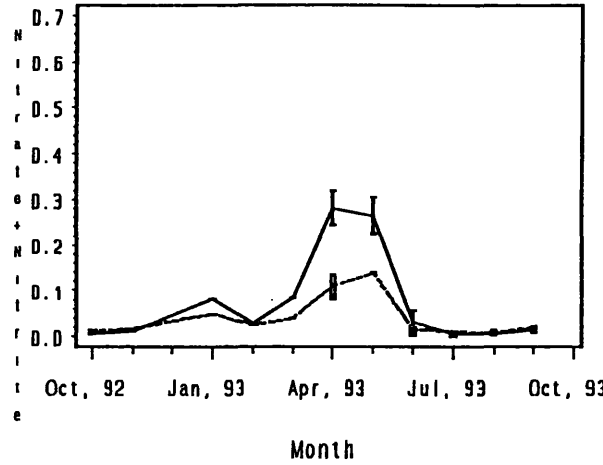
Layer — Surface — Bottom

Layer — Surface — Bottom

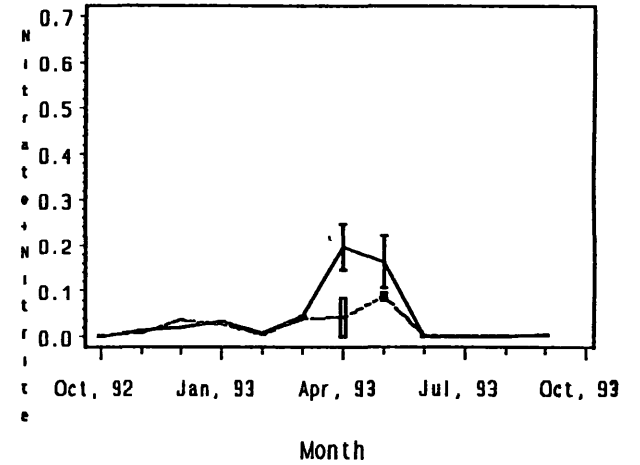
Station Id=CB7.2



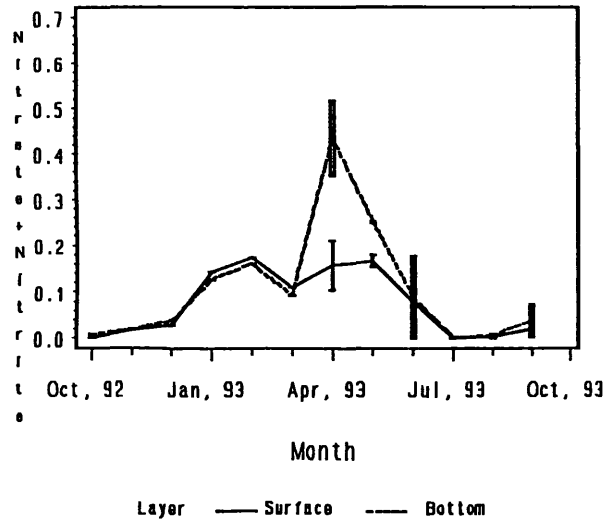
Station Id=CB7.2E



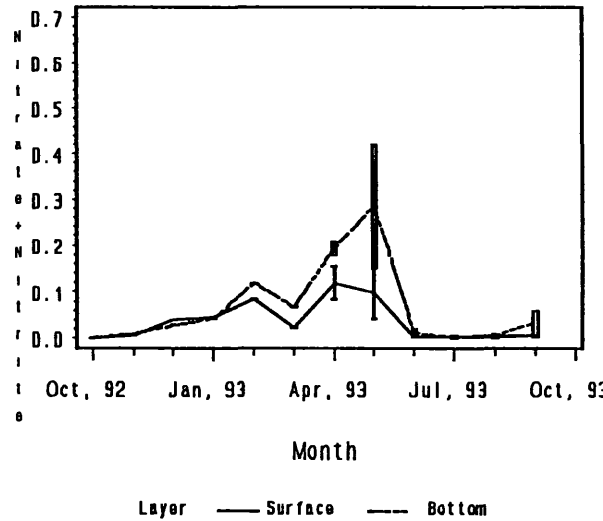
Station Id=CB7.3E



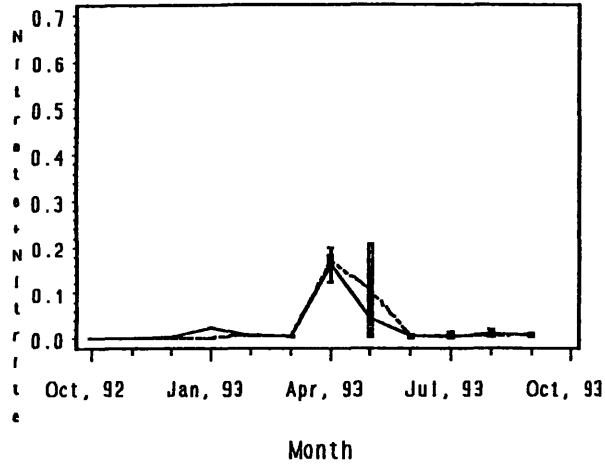
Station Id=LE3.6



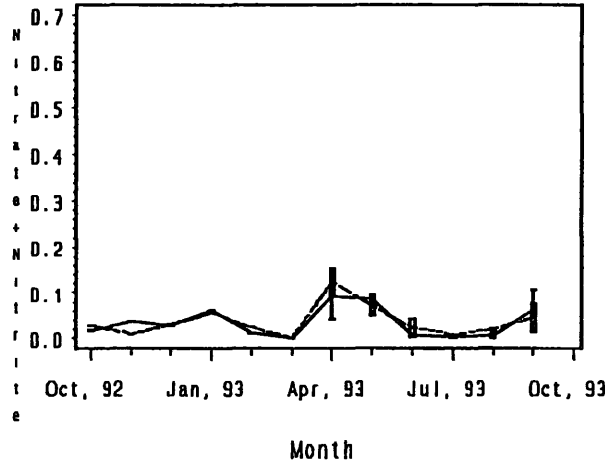
Station Id=LE3.7



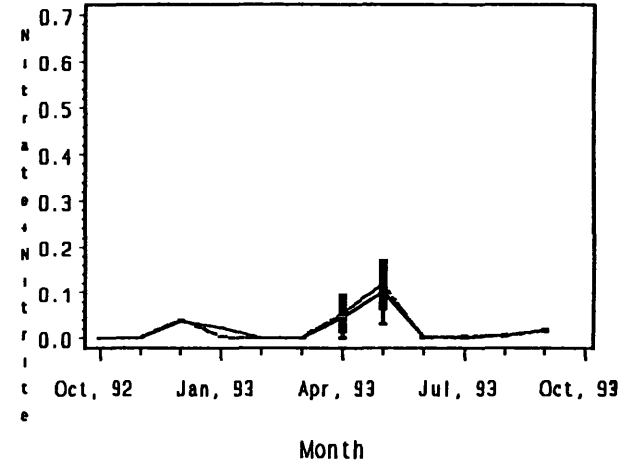
Station Id=WE4.1



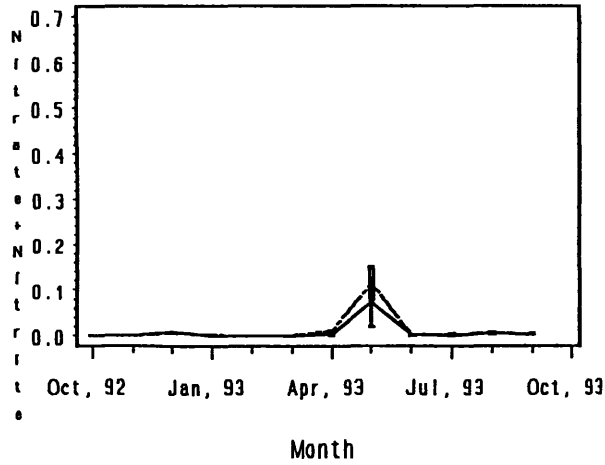
Station Id=WE4.2



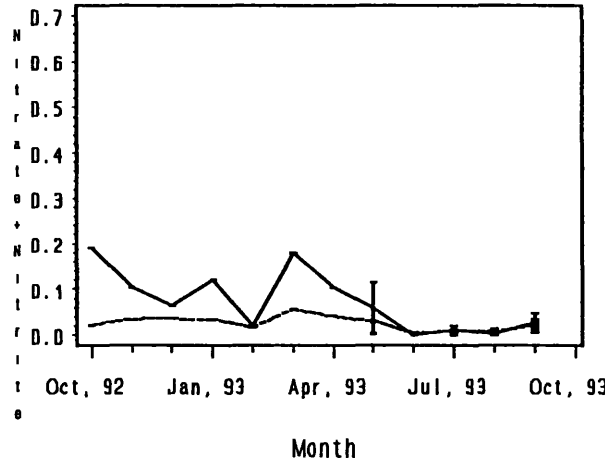
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5



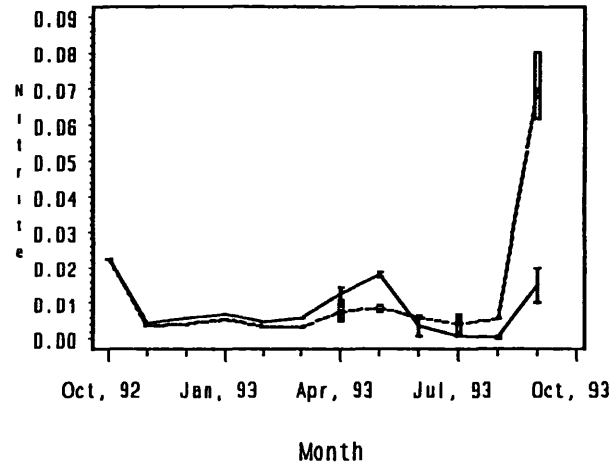
NITRITE

Values reported as mg/l.

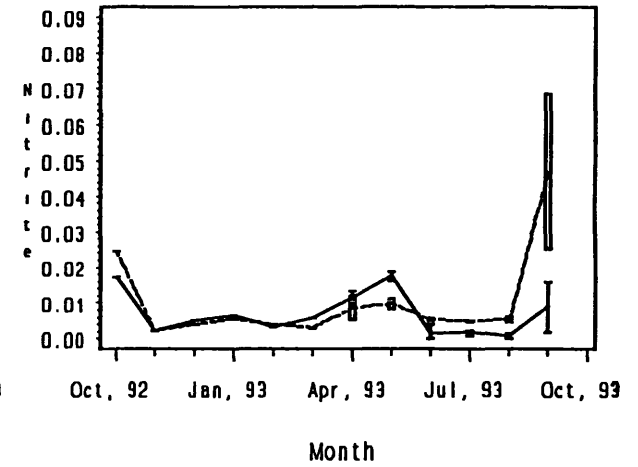
Nitrite
October, 1992 - September, 1993

	Nitrite (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	0.0222	0.0084	0.0001	0.0801	0.0138	0.0015
CB5.5.....	0.0187	0.0064	0.0001	0.0686	0.0115	0.0024
CB6.1.....	0.0234	0.0072	0.0001	0.0740	0.0139	0.0024
CB6.2.....	0.0184	0.0052	0.0001	0.0497	0.0101	0.0021
CB6.3.....	0.0261	0.0065	0.0003	0.0426	0.0092	0.0012
CB6.4.....	0.0336	0.0051	0.0005	0.0308	0.0053	0.0005
CB7.3.....	0.0098	0.0026	0.0005	0.0185	0.0026	0.0005
CB7.4.....	0.0072	0.0023	0.0005	0.0064	0.0017	0.0005
CB7.4N.....	0.0079	0.0023	0.0005	0.0046	0.0013	0.0005
CB8.1E.....	0.0145	0.0032	0.0005	0.0067	0.0020	0.0005
CB8.1.....	0.0210	0.0040	0.0005	0.0145	0.0033	0.0005
EE3.1.....	0.0204	0.0041	0.0001	0.0201	0.0043	0.0001
EE3.2.....	0.0374	0.0064	0.0005	0.0370	0.0071	0.0006
CB7.1N.....	0.0407	0.0074	0.0003	0.0529	0.0101	0.0013
CB7.1.....	0.0150	0.0043	0.0001	0.0401	0.0080	0.0010
CB7.1S.....	0.0185	0.0047	0.0001	0.0463	0.0080	0.0021
CB5.4W.....	0.0158	0.0054	0.0001	0.0156	0.0062	0.0001
CB7.2.....	0.0171	0.0053	0.0001	0.0331	0.0057	0.0009
CB7.2E.....	0.0148	0.0050	0.0002	0.0136	0.0058	0.0014
CB7.3E.....	0.0098	0.0030	0.0005	0.0067	0.0027	0.0005
LE3.6.....	0.0281	0.0058	0.0001	0.0513	0.0081	0.0007
LE3.7.....	0.0083	0.0033	0.0003	0.0458	0.0065	0.0001
WE4.1.....	0.0092	0.0023	0.0002	0.0121	0.0029	0.0002
WE4.2.....	0.0822	0.0087	0.0005	0.0601	0.0095	0.0006
WE4.3.....	0.0170	0.0033	0.0001	0.0156	0.0039	0.0003
WE4.4.....	0.0085	0.0015	0.0001	0.0099	0.0021	0.0001
LE5.5.....	0.0560	0.0076	0.0005	0.0182	0.0041	0.0005

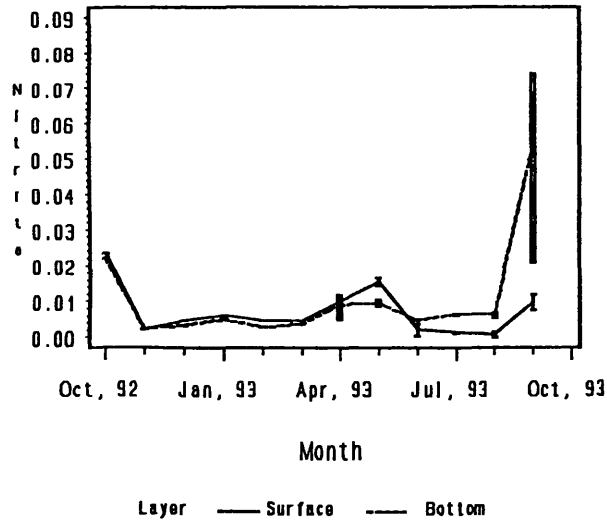
Station Id=CB5.4



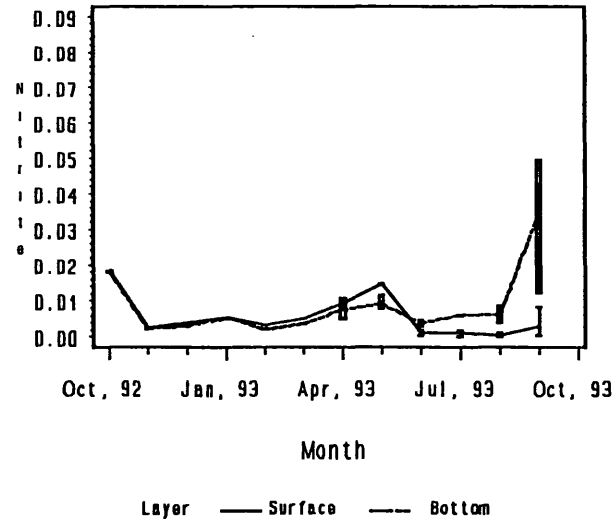
Station Id=CB5.5



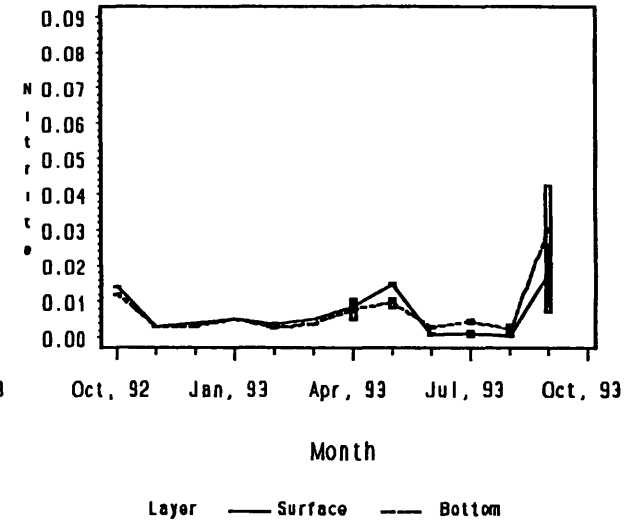
Station Id=CB6.1



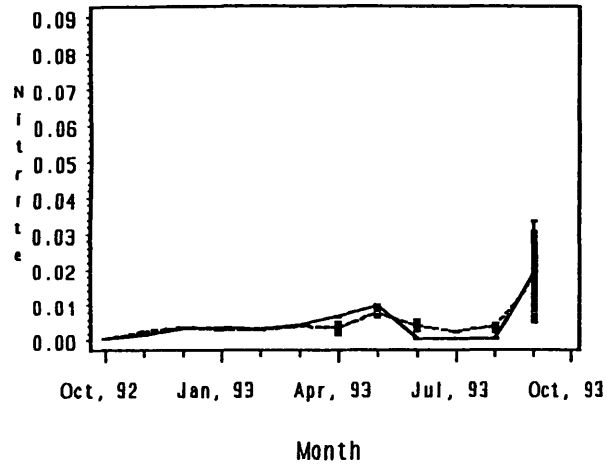
Station Id=CB6.2



Station Id=CB6.3

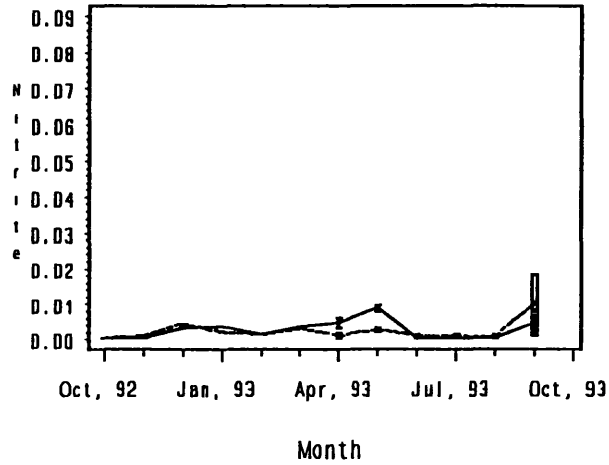


Station Id=CB6.4



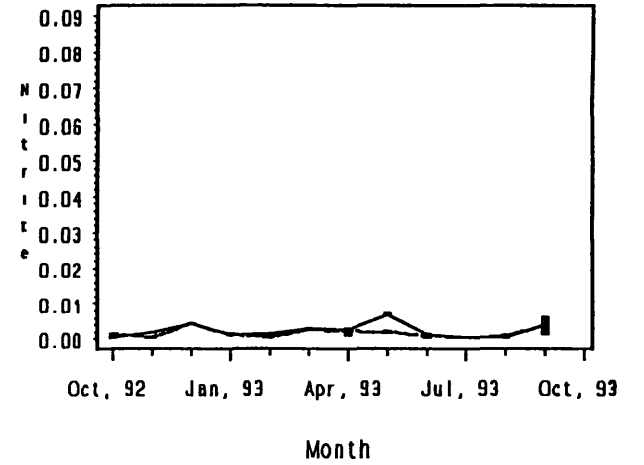
Layer — Surface — Bottom
Station Id=CB7.4N

Station Id=CB7.3

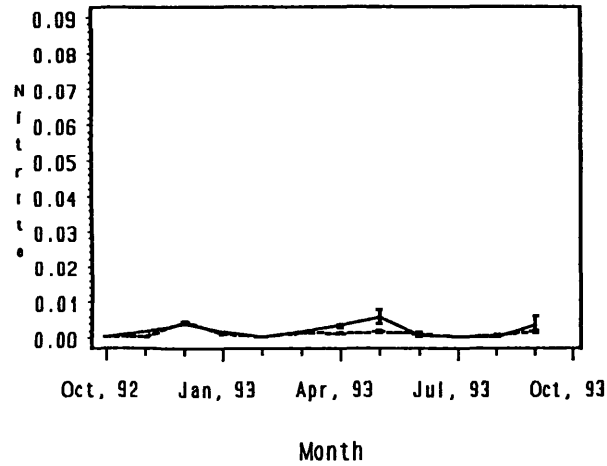


Layer — Surface — Bottom
Station Id=CB8.1E

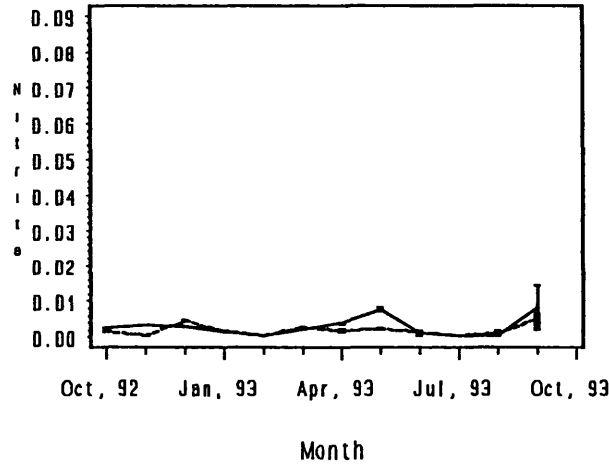
Station Id=CB7.4



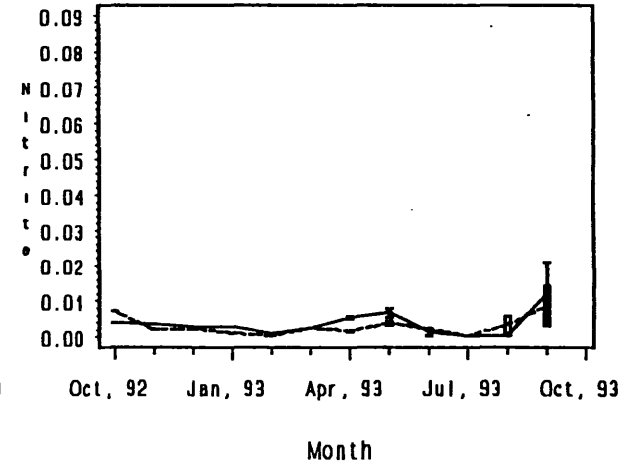
Layer — Surface — Bottom
Station Id=CB8.1



Layer — Surface — Bottom

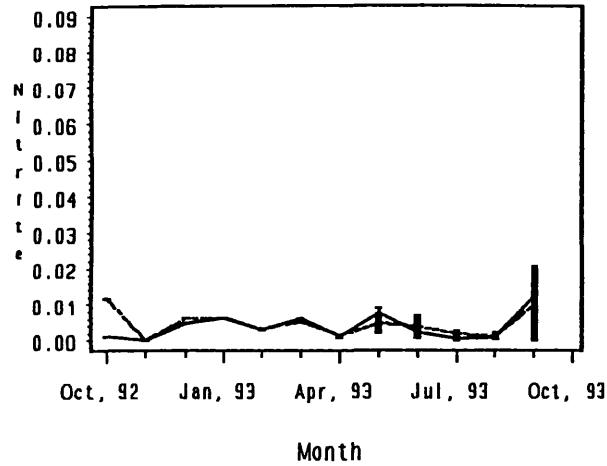


Layer — Surface — Bottom

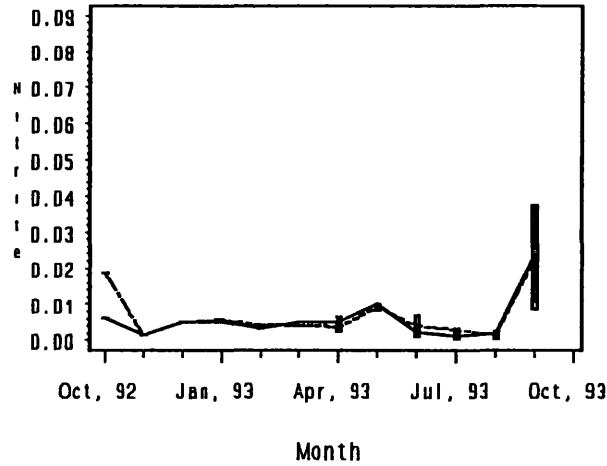


Layer — Surface — Bottom

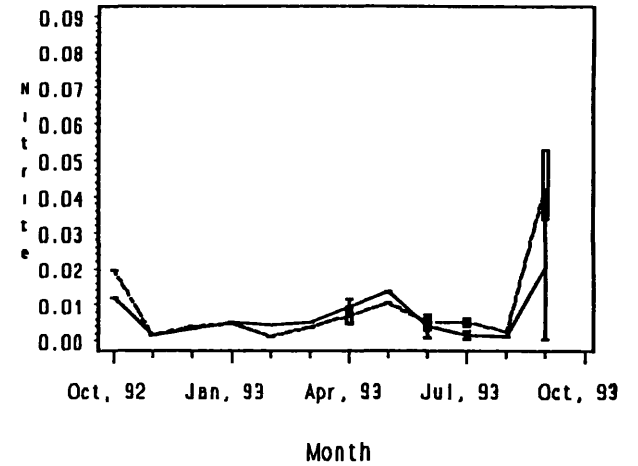
Station Id=EE3.1



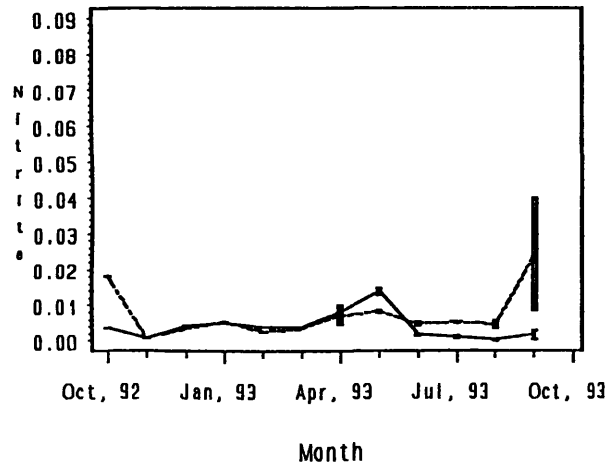
Station Id=EE3.2



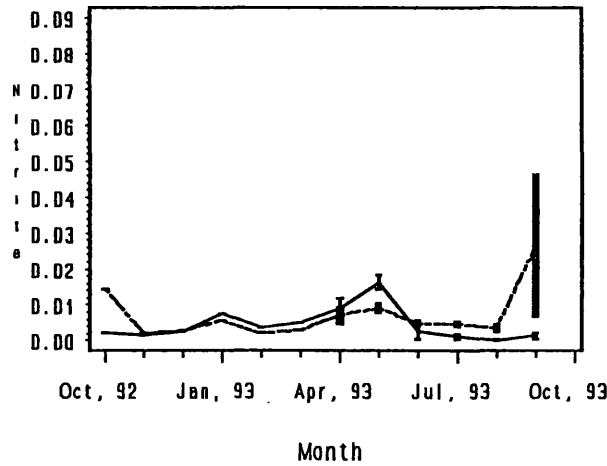
Station Id=CB7.1N



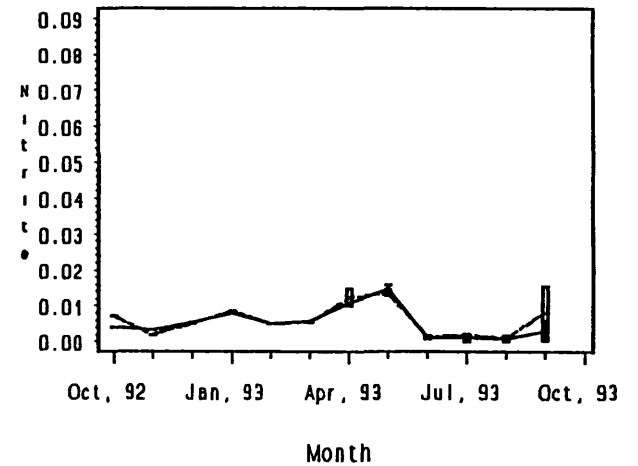
Layer — Surface — Bottom
Station Id=CB7.1



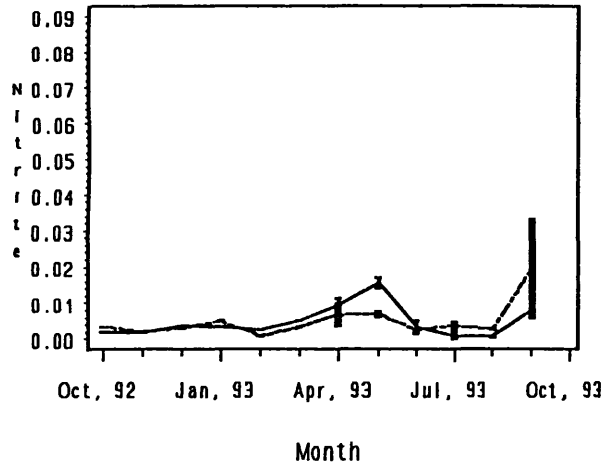
Layer — Surface — Bottom
Station Id=CB7.1S



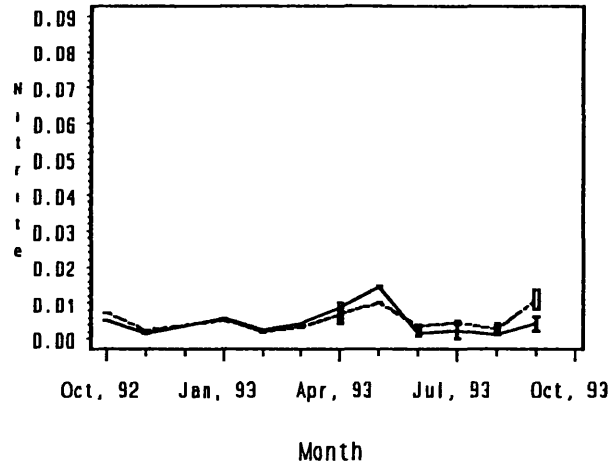
Layer — Surface — Bottom
Station Id=CB5.4W



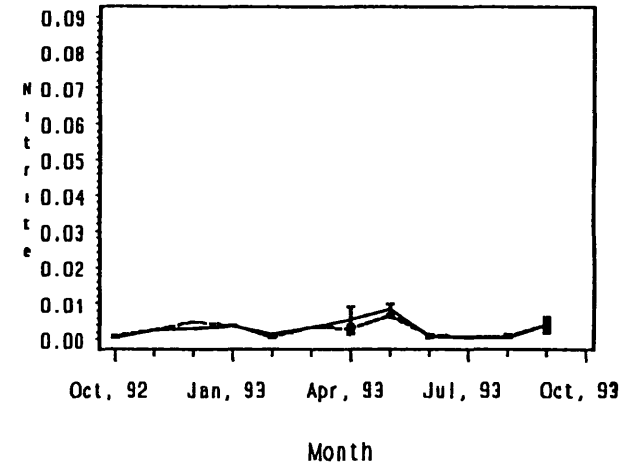
Station Id=CB7.2



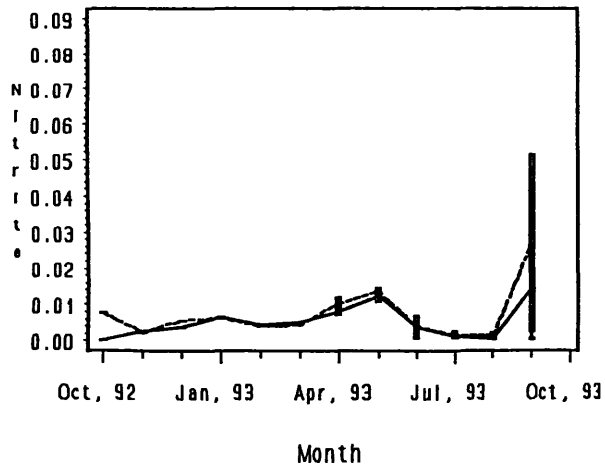
Station Id=CB7.2E



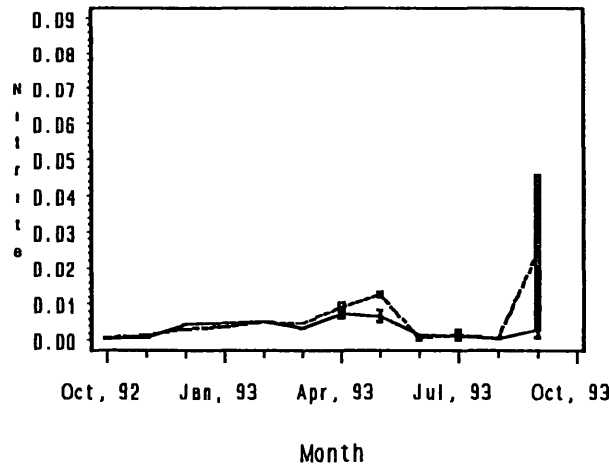
Station Id=CB7.3E



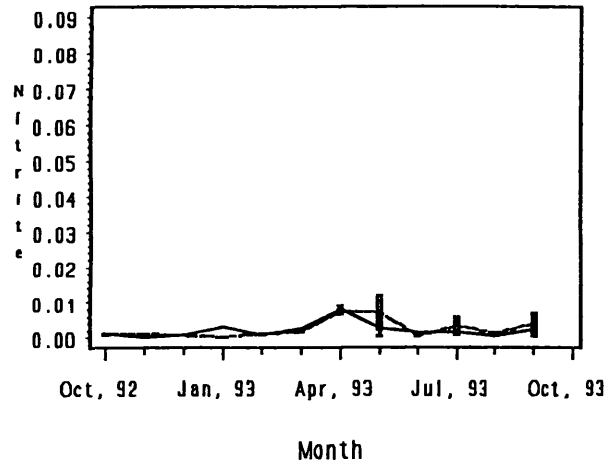
Station Id=LE3.6



Station Id=LE3.7

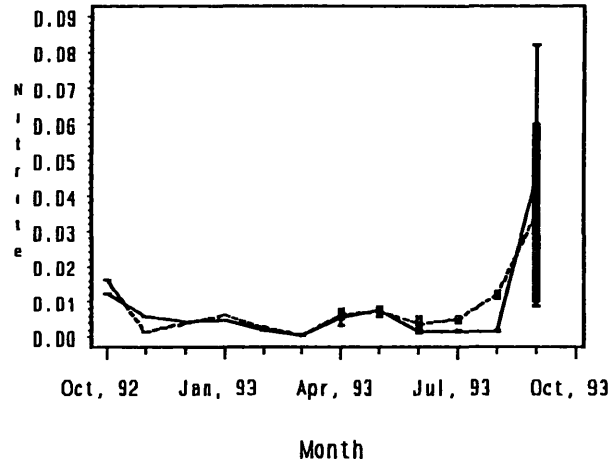


Station Id=WE4.1



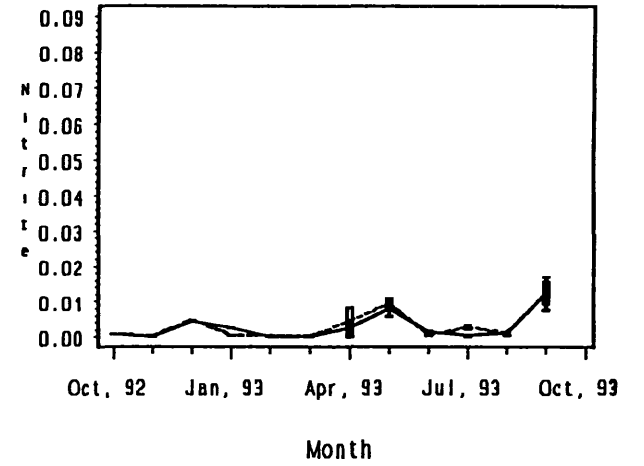
Layer — Surface — Bottom
Station Id=WE4.4

Station Id=WE4.2

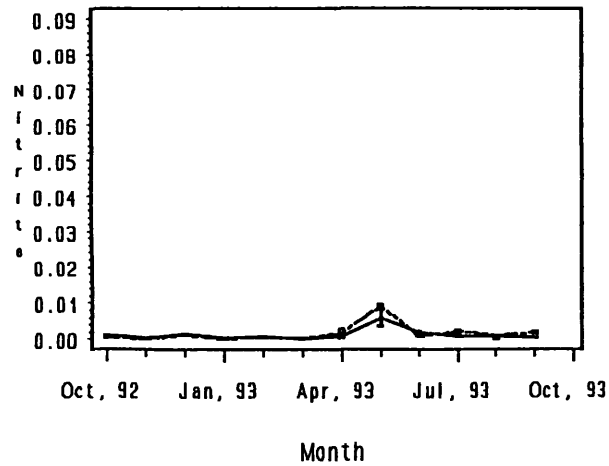


Layer — Surface — Bottom
Station Id=LE5.5

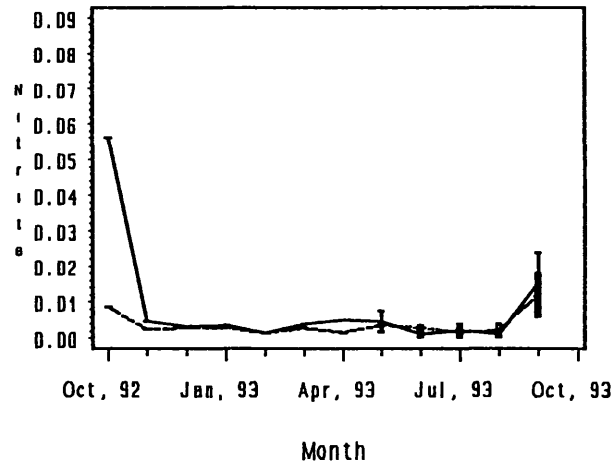
Station Id=WE4.3



Layer — Surface — Bottom



Layer — Surface — Bottom



Layer — Surface — Bottom

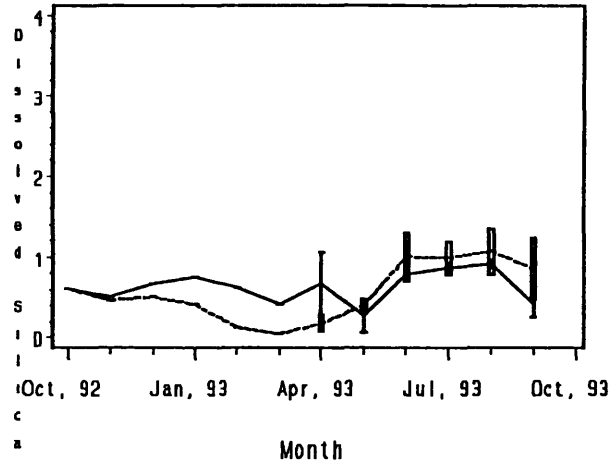
DISSOLVED SILICA

Values reported as mg/l.

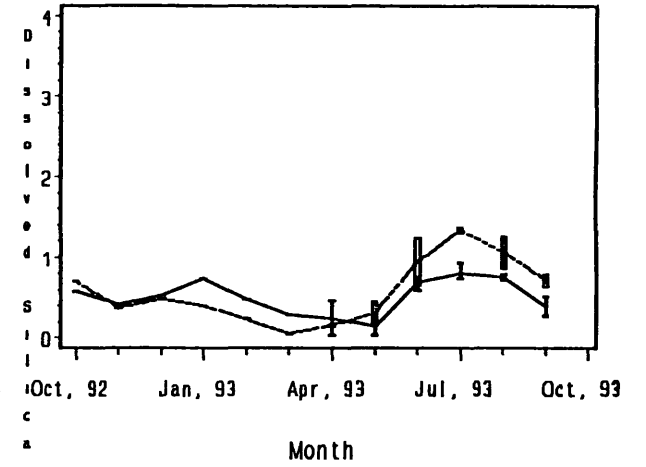
Silica
October, 1992 - September, 1993

	Dissolved Silica (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	1.0510	0.6363	0.0690	1.3510	0.6206	0.0500
CB5.5.....	0.9240	0.5322	0.0300	1.3670	0.6284	0.0580
CB6.1.....	0.8870	0.4557	0.0340	1.1940	0.5714	0.0270
CB6.2.....	0.8660	0.4494	0.0230	0.9890	0.4808	0.0350
CB6.3.....	0.8770	0.4126	0.0230	0.8640	0.4183	0.0380
CB6.4.....	0.8930	0.3762	0.0115	0.8290	0.4355	0.0115
CB7.3.....	0.6000	0.2284	0.0115	0.4510	0.1677	0.0115
CB7.4.....	0.7820	0.2044	0.0115	0.6260	0.1352	0.0115
CB7.4N.....	0.5850	0.1439	0.0115	0.2380	0.0812	0.0115
CB8.1E.....	0.6610	0.2483	0.0115	0.3810	0.1631	0.0115
CB8.1.....	0.8060	0.3616	0.0610	0.6470	0.2647	0.0450
EE3.1.....	2.4760	0.8968	0.0380	1.9620	0.6937	0.0130
EE3.2.....	1.7610	0.4462	0.0160	1.2060	0.4710	0.0190
CB7.1N.....	1.0350	0.4102	0.0230	1.2030	0.4900	0.0370
CB7.1.....	1.1910	0.4061	0.0220	1.2960	0.4827	0.0270
CB7.1S.....	0.7910	0.3966	0.0210	0.9410	0.4139	0.0360
CB5.4W.....	3.2180	0.7506	0.0220	1.1820	0.5890	0.0380
CB7.2.....	0.7880	0.3307	0.0270	0.6100	0.3033	0.0300
CB7.2E.....	0.7470	0.3027	0.0220	0.6390	0.2923	0.0260
CB7.3E.....	0.6720	0.2226	0.0115	0.4250	0.2151	0.0115
LE3.6.....	1.0470	0.5414	0.0470	1.0060	0.5060	0.0200
LE3.7.....	1.0050	0.4751	0.0065	1.2350	0.4916	0.0230
WE4.1.....	0.8200	0.3736	0.0065	1.3060	0.4084	0.0150
WE4.2.....	1.1350	0.6005	0.1440	1.0980	0.5836	0.0600
WE4.3.....	1.0270	0.4374	0.0370	1.2850	0.4441	0.0400
WE4.4.....	1.0290	0.2955	0.0190	1.0590	0.2937	0.0270
LE5.5.....	1.9640	0.5702	0.0540	0.6830	0.3388	0.1360

Station Id=CB5.4

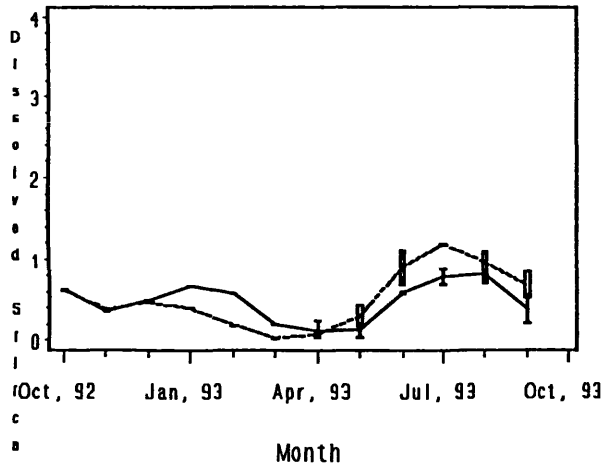


Station Id=CB5.5

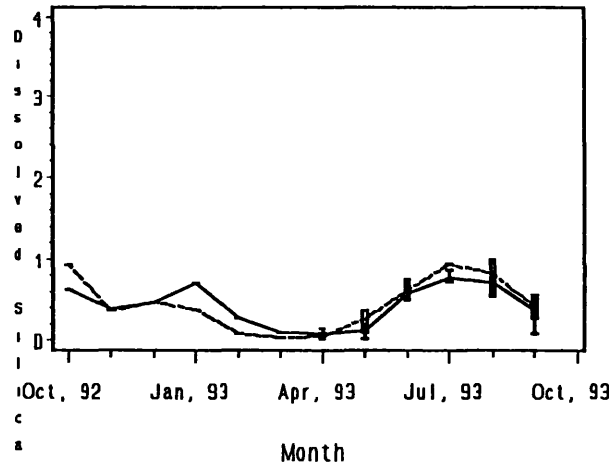


Layer — Surface — Bottom

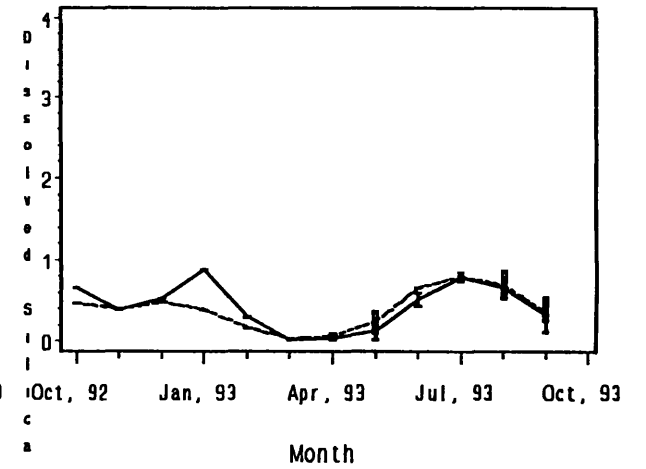
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3

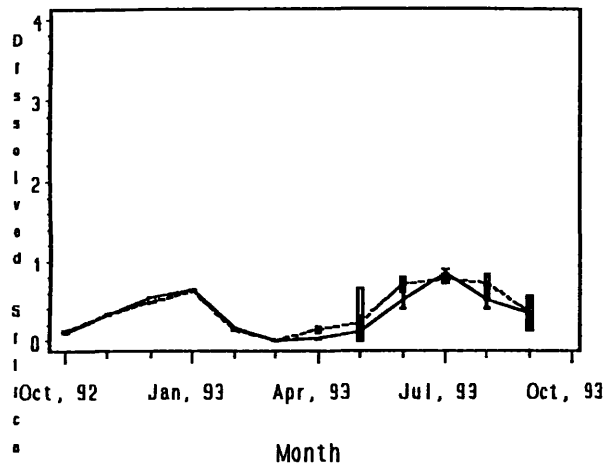


Layer — Surface — Bottom

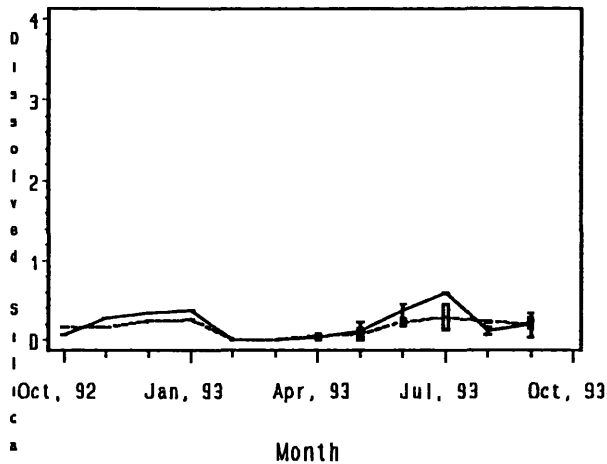
Layer — Surface — Bottom

Layer — Surface — Bottom

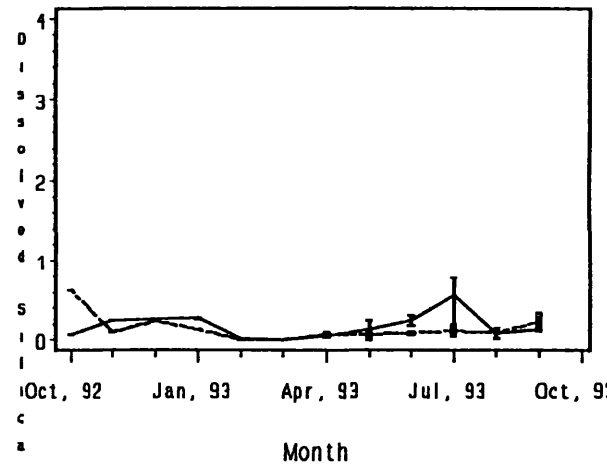
Station Id=CB6.4



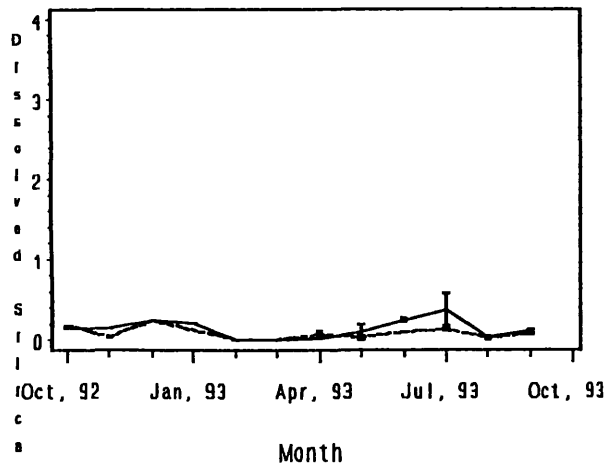
Station Id=CB7.3



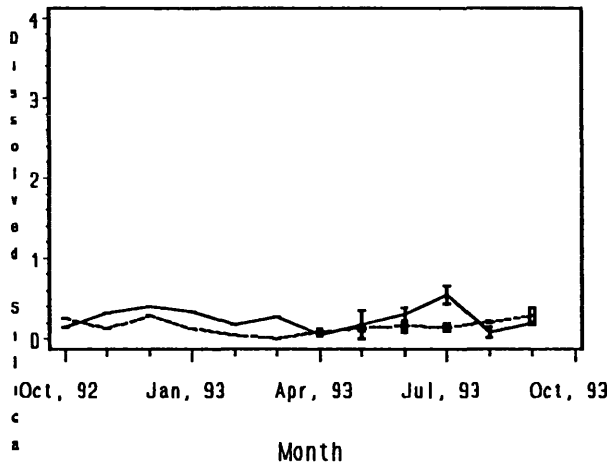
Station Id=CB7.4



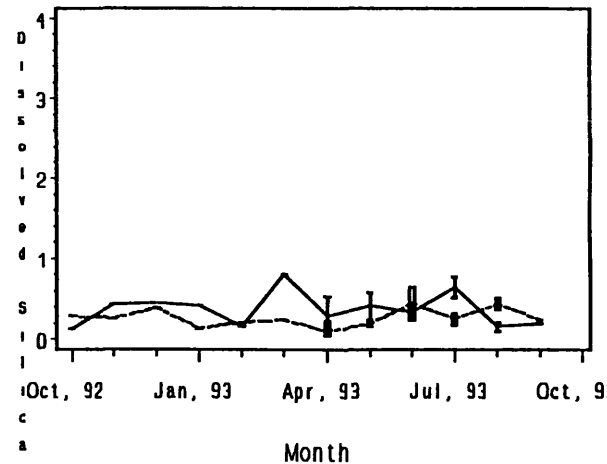
Layer — Surface — Bottom
Station Id=CB7.4N



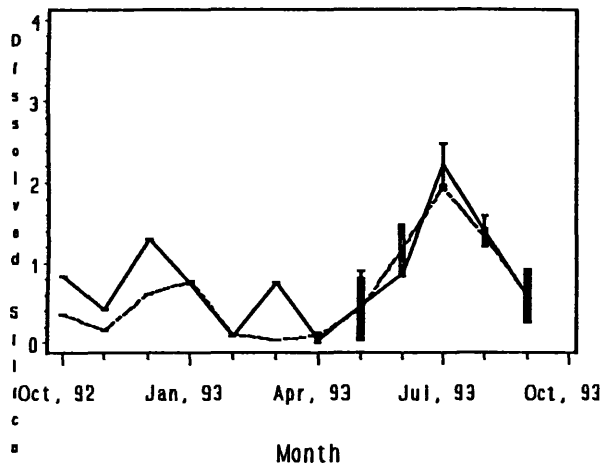
Layer — Surface — Bottom
Station Id=CBB.1E



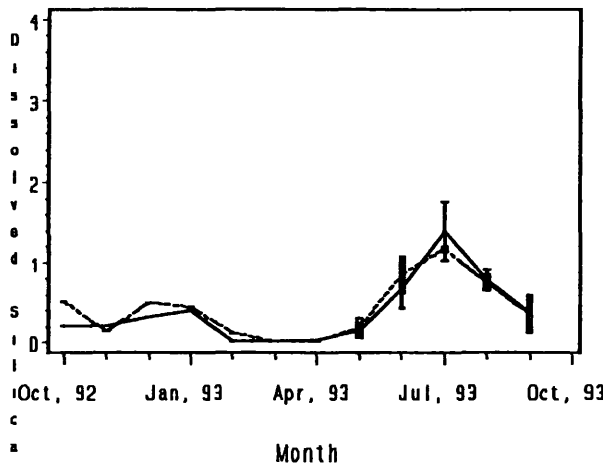
Layer — Surface — Bottom
Station Id=CBB.1



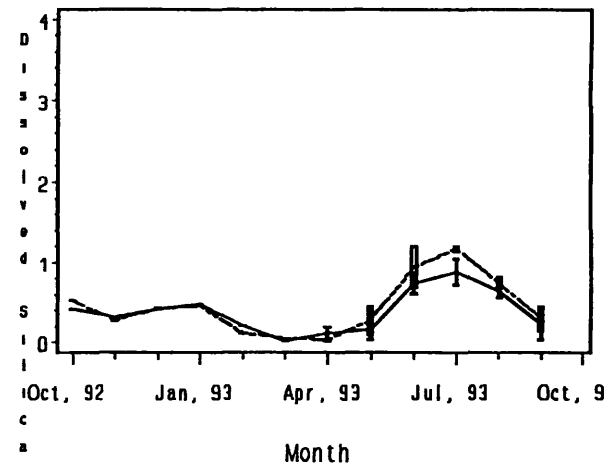
Station Id=EE3.1



Station Id=EE3.2



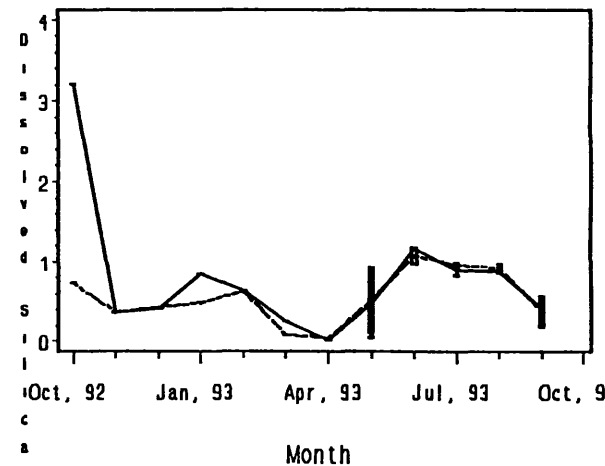
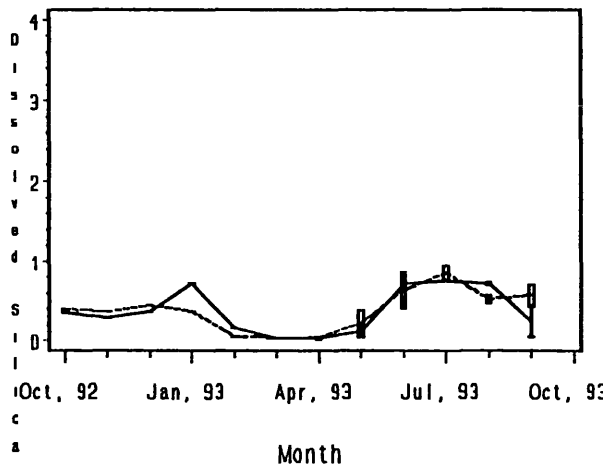
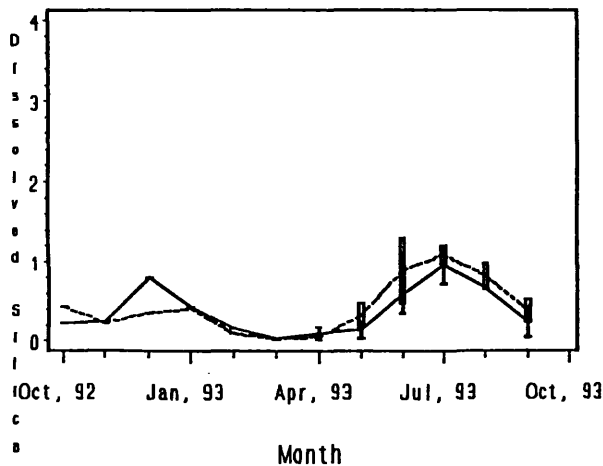
Station Id=CB7.1N



Layer — Surface — Bottom
Station Id=CB7.1

Layer — Surface — Bottom
Station Id=CB7.1S

Layer — Surface — Bottom
Station Id=CB5.4W

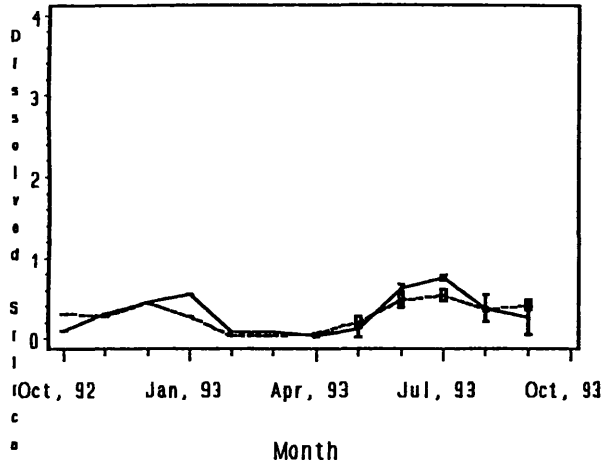


Layer — Surface — Bottom

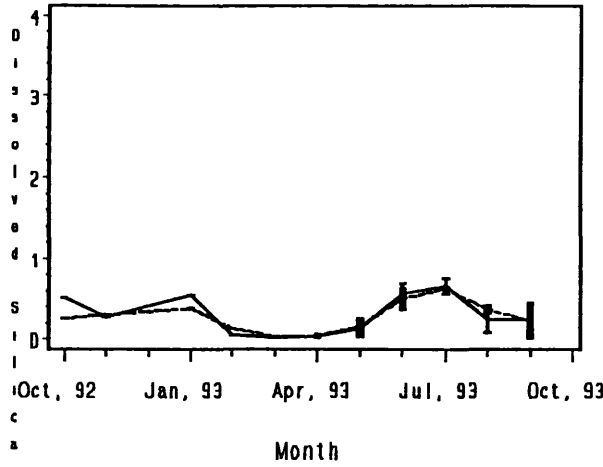
Layer — Surface — Bottom

Layer — Surface — Bottom

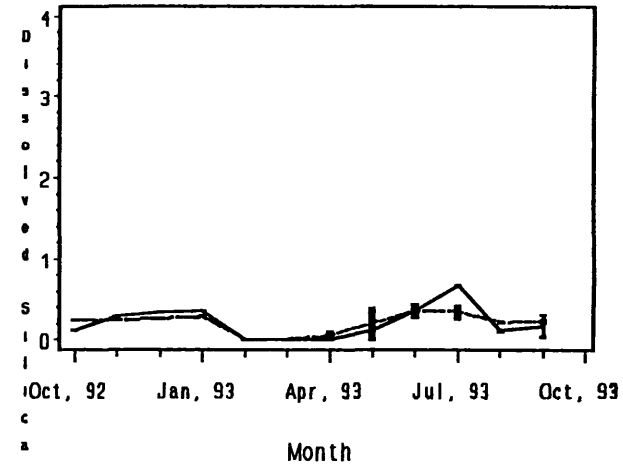
Station Id=CB7.2



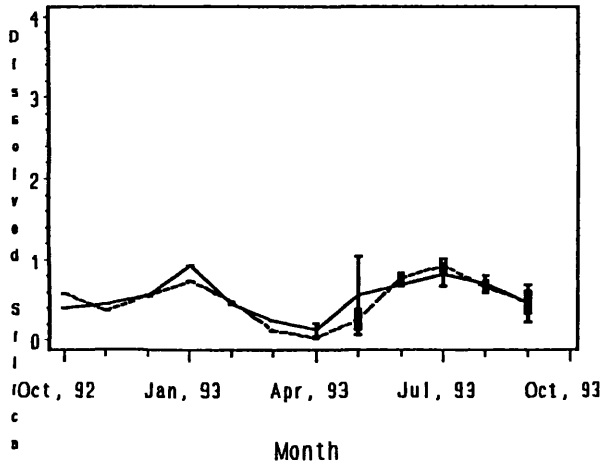
Station Id=CB7.2E



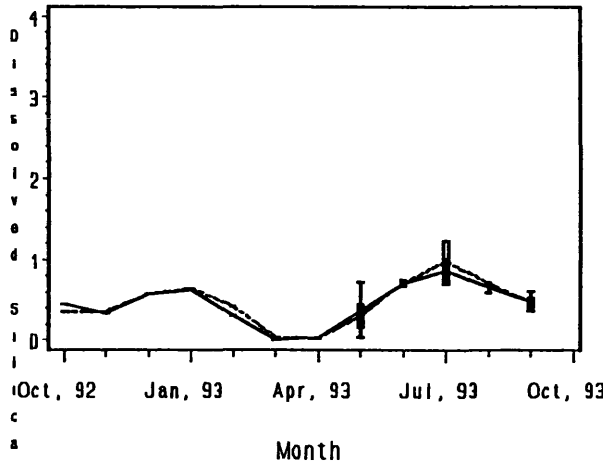
Station Id=CB7.3E



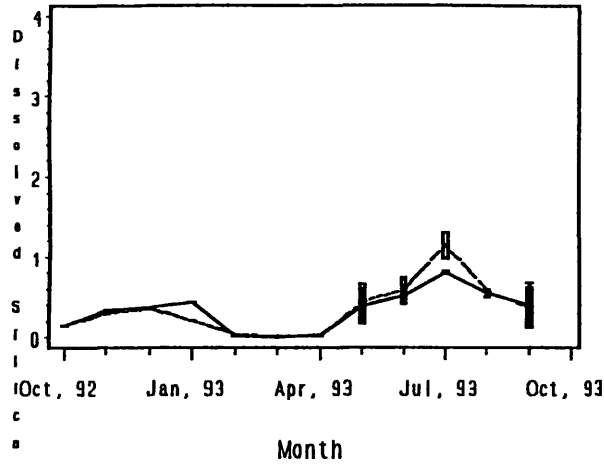
Station Id=LE3.6



Station Id=LE3.7

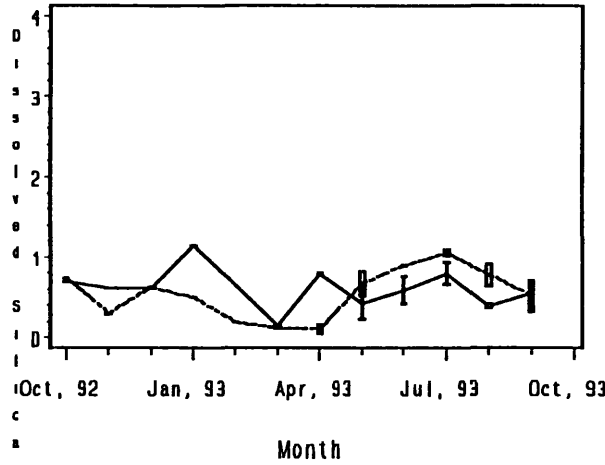


Station Id=WE4.1



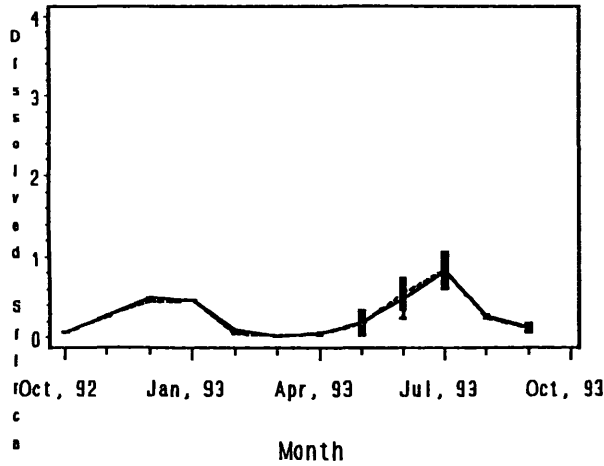
Layer — Surface — Bottom

Station Id=WE4.2



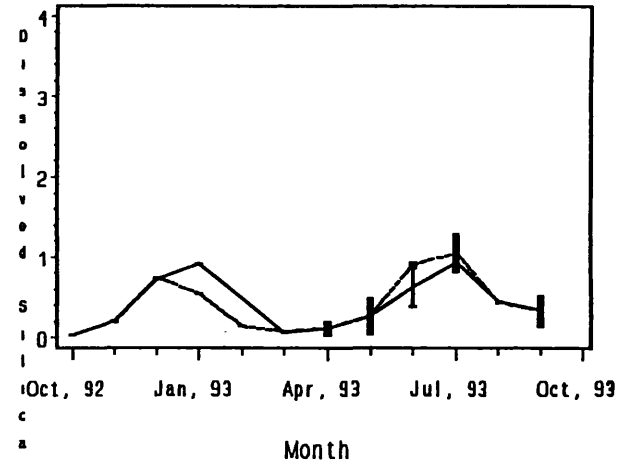
Layer — Surface — Bottom

Station Id=LE5.5

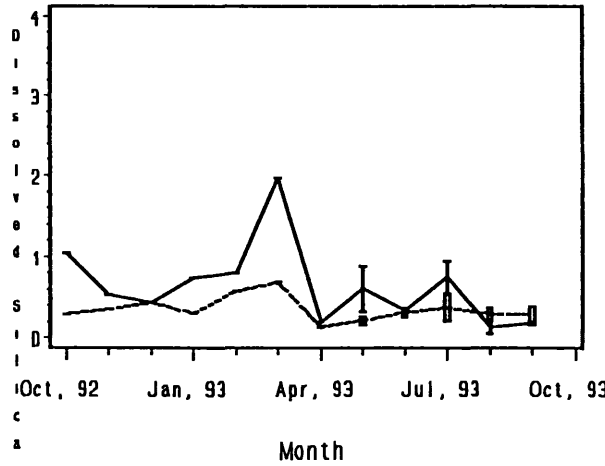


Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom



Layer — Surface — Bottom

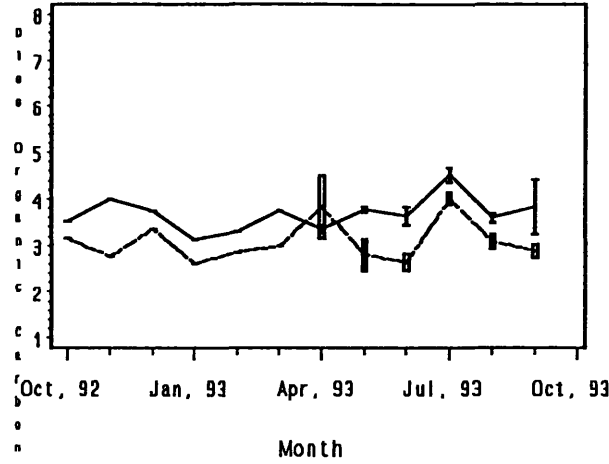
DISSOLVED ORGANIC CARBON

Values reported as mg/l.

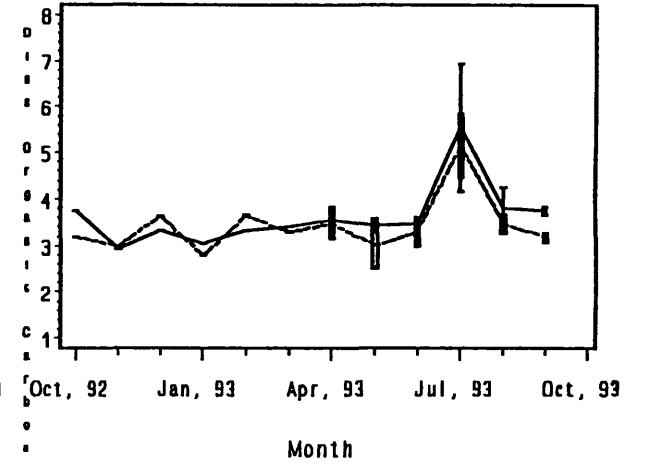
Dissolved Organic Carbon
October, 1992 - September, 1993

	Dissolved Organic Carbon (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	4.680	3.717	3.130	4.500	3.124	2.460
CB5.5.....	6.930	3.799	2.930	5.835	3.485	2.505
CB6.1.....	5.320	3.824	3.040	5.010	3.426	2.670
CB6.2.....	4.700	3.767	2.620	4.570	3.373	2.610
CB6.3.....	4.740	3.619	2.770	3.860	3.211	2.580
CB6.4.....	3.640	2.608	2.010	3.330	2.319	1.530
CB7.3.....	3.380	2.543	1.920	3.340	2.118	1.430
CB7.4.....	4.390	2.441	1.510	2.660	1.879	1.150
CB7.4N.....	3.920	2.197	1.120	3.750	1.961	1.150
CB8.1E.....	3.720	2.509	1.870	3.270	2.009	1.380
CB8.1.....	5.870	2.976	1.730	4.300	2.227	1.580
EE3.1.....	7.430	5.606	4.310	6.790	4.943	3.500
EE3.2.....	4.900	4.260	3.760	4.970	3.803	2.870
CB7.1N.....	4.230	3.694	3.020	4.740	3.525	2.740
CB7.1.....	5.310	3.845	2.990	5.050	3.480	2.520
CB7.1S.....	4.600	3.670	2.950	3.850	3.144	2.450
CB5.4W.....	6.630	4.114	3.310	5.340	3.937	3.140
CB7.2.....	4.310	3.423	2.120	4.410	3.058	2.270
CB7.2E.....	4.510	3.464	2.770	4.260	3.316	2.550
CB7.3E.....	4.280	2.505	1.660	3.450	2.092	1.580
LE3.6.....	4.435	3.742	2.975	5.490	3.700	2.820
LE3.7.....	5.090	4.006	3.410	5.370	3.914	3.210
WE4.1.....	5.340	3.829	3.010	4.590	3.638	2.950
WE4.2.....	6.390	4.150	3.080	4.840	3.613	2.800
WE4.3.....	4.950	3.924	3.210	4.495	3.696	3.140
WE4.4.....	5.010	4.104	3.490	5.460	3.963	3.340
LE5.5.....	4.660	3.034	2.300	3.720	2.638	1.620

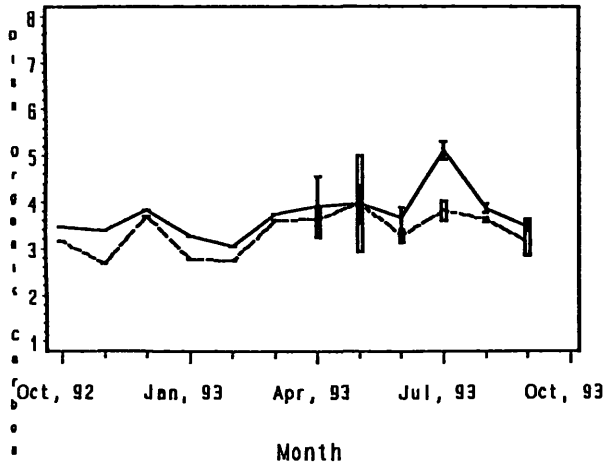
Station Id=CB5.4



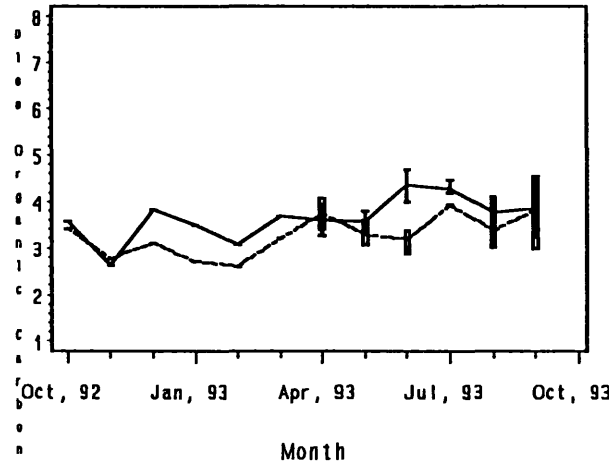
Station Id=CB5.5



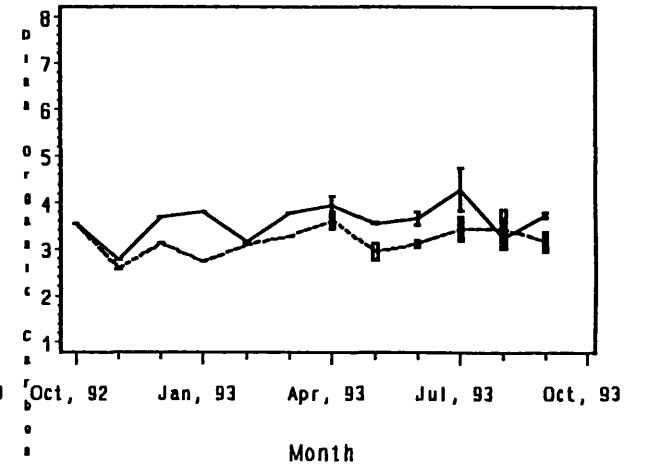
Station Id=CB6.1



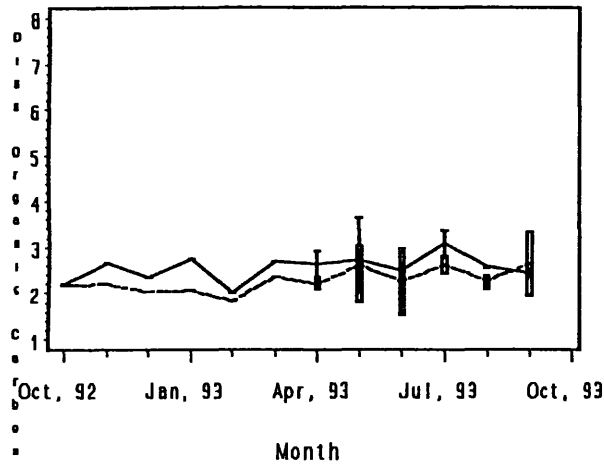
Station Id=CB6.2



Station Id=CB6.3

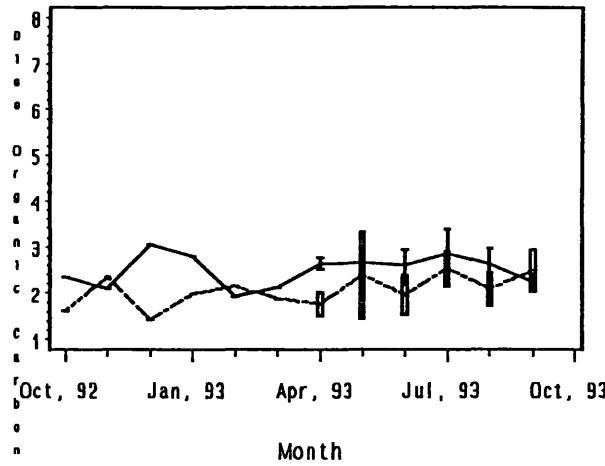


Station Id=CB6.4



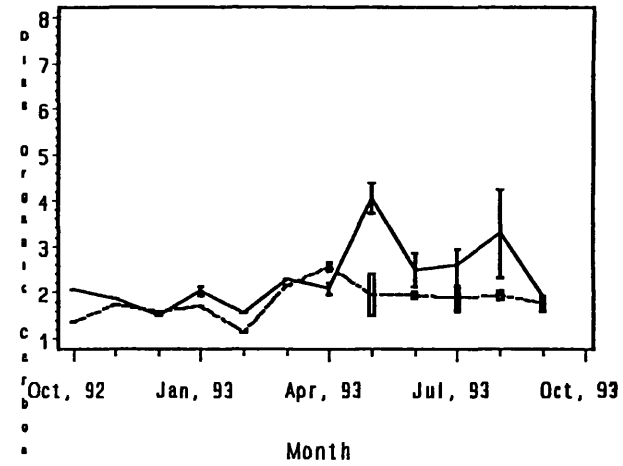
Layer — Surface — Bottom
Station Id=CB7.4N

Station Id=CB7.3

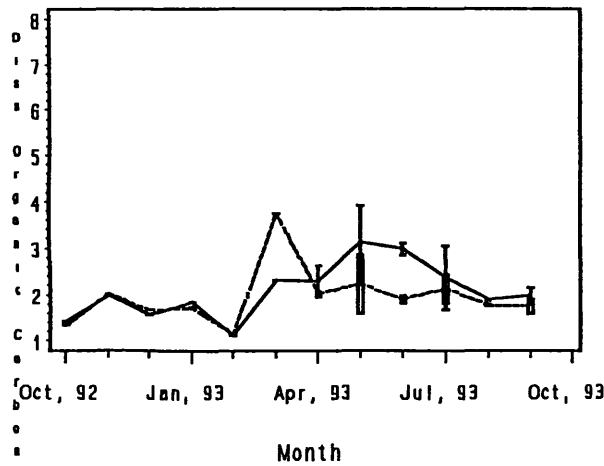


Layer — Surface — Bottom
Station Id=CB8.1E

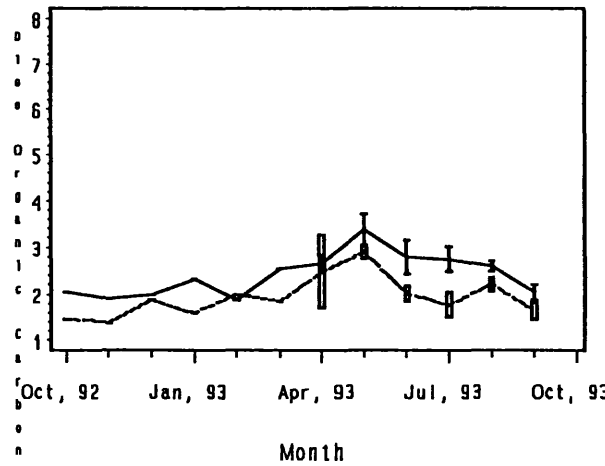
Station Id=CB7.4



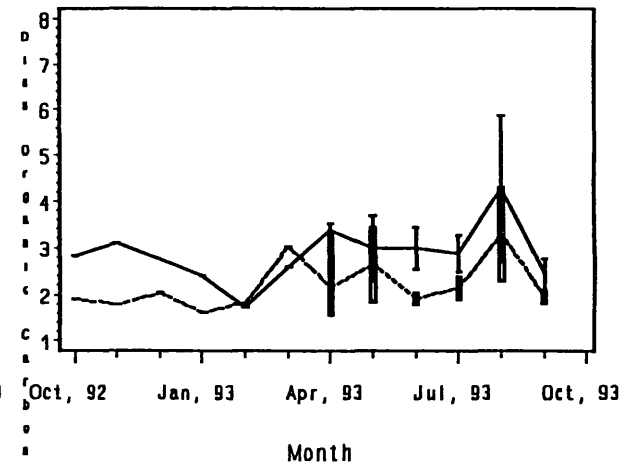
Layer — Surface — Bottom
Station Id=CB8.1



Layer — Surface — Bottom

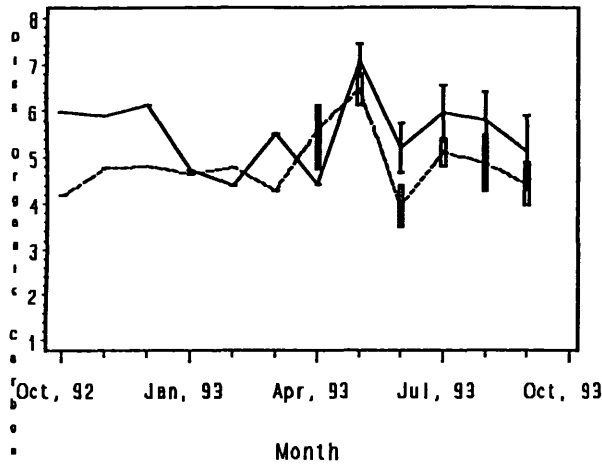


Layer — Surface — Bottom



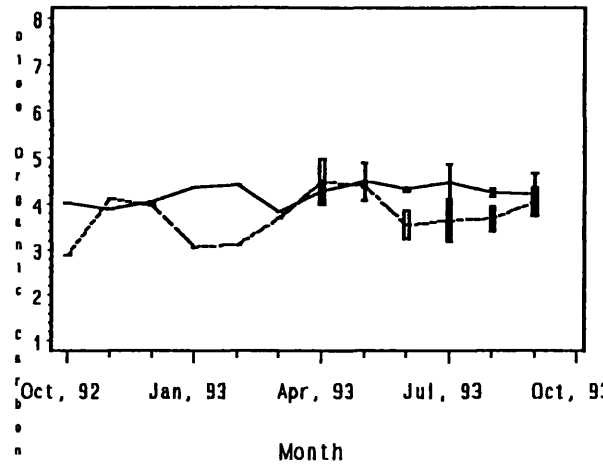
Layer — Surface — Bottom

Station Id=EE3.1



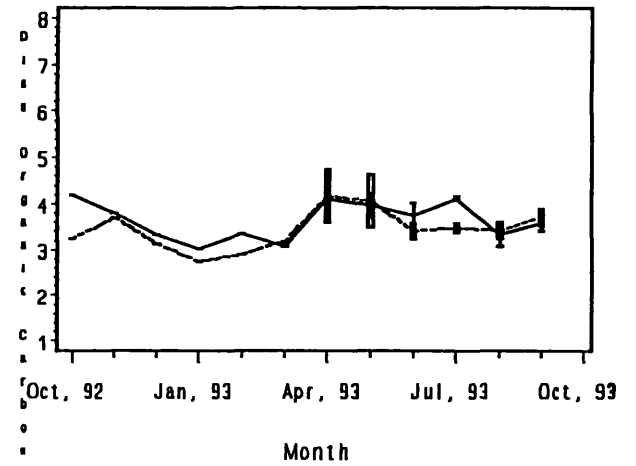
Layer — Surface — Bottom
 Station Id=CB7.1

Station Id=EE3.2

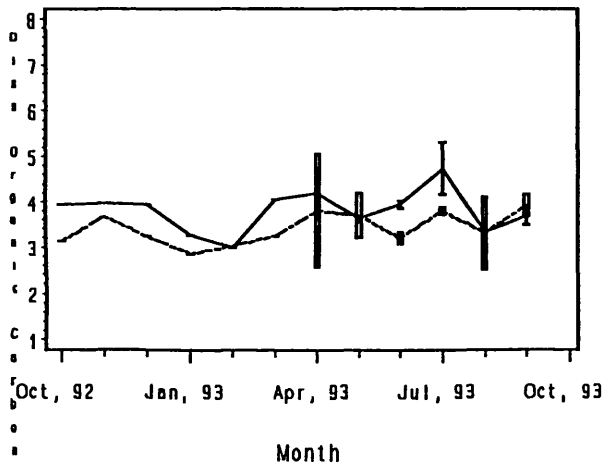


Layer — Surface — Bottom
 Station Id=CB7.15

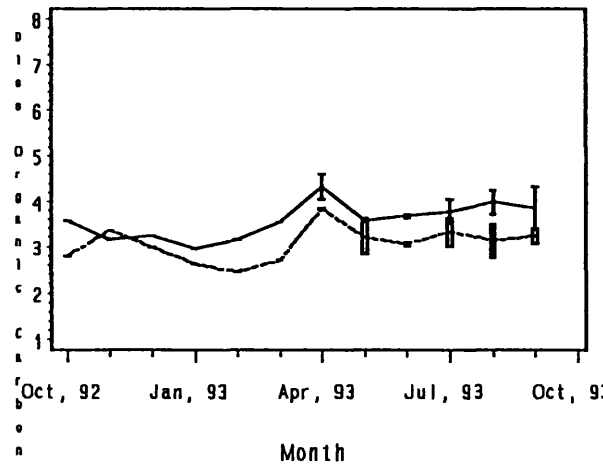
Station Id=CB7.1N



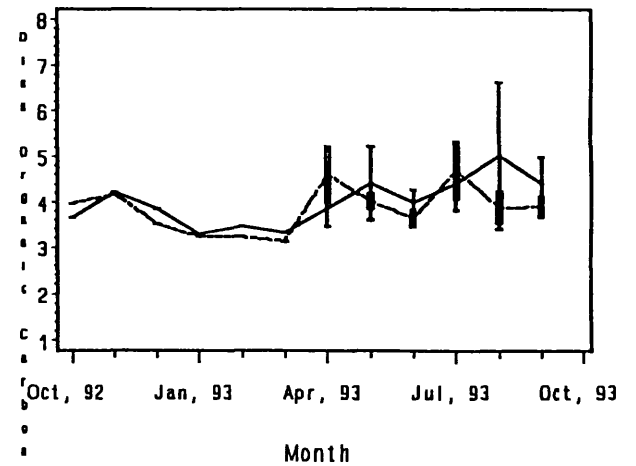
Layer — Surface — Bottom
 Station Id=CB5.4W



Layer — Surface — Bottom

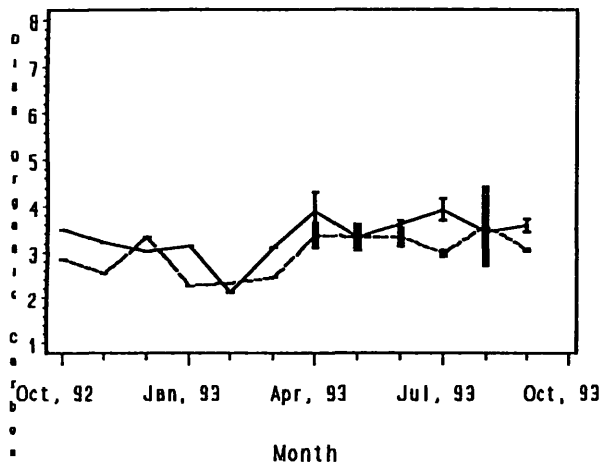


Layer — Surface — Bottom



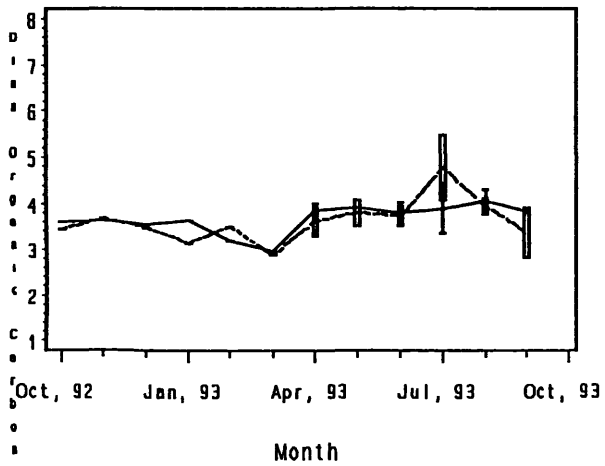
Layer — Surface — Bottom

Station Id=CB7.2



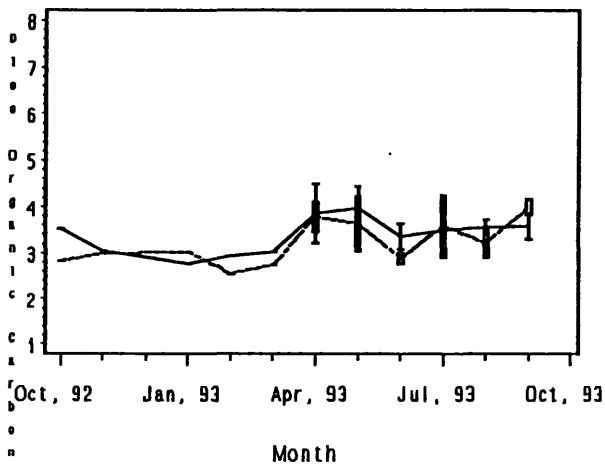
Layer — Surface — Bottom

Station Id=LE3.6



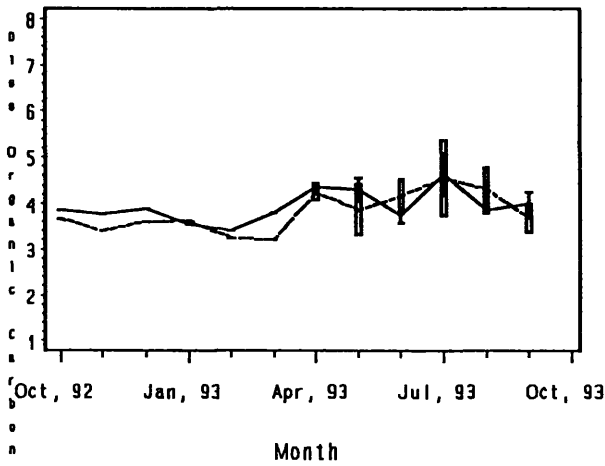
Layer — Surface — Bottom

Station Id=CB7.2E



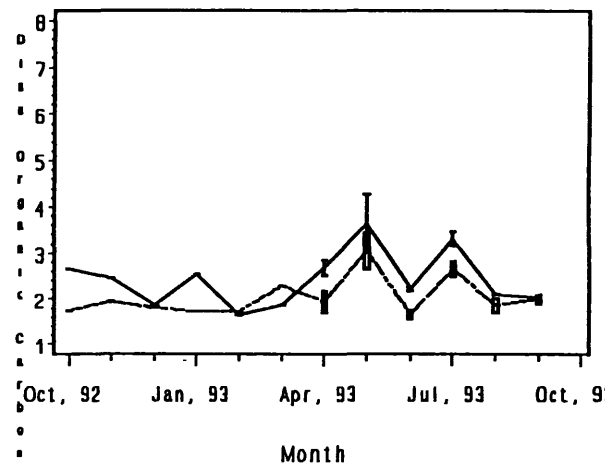
Layer — Surface — Bottom

Station Id=LE3.7



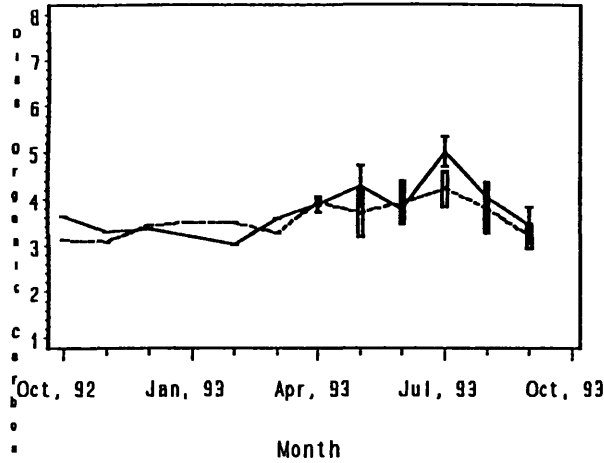
Layer — Surface — Bottom

Station Id=CB7.3E

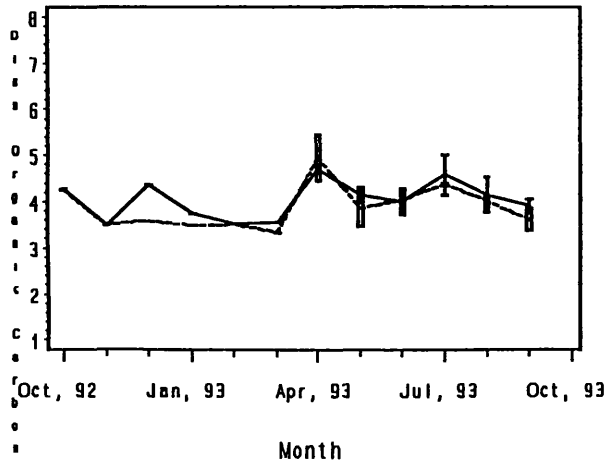


Layer — Surface — Bottom

Station Id=WE4.1

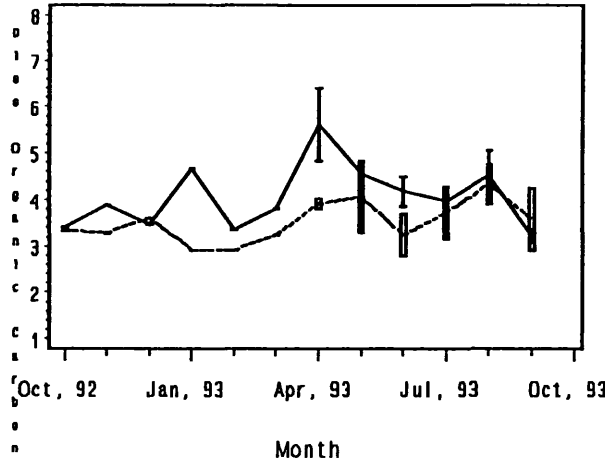


Layer — Surface — Bottom
Station Id=WE4.4

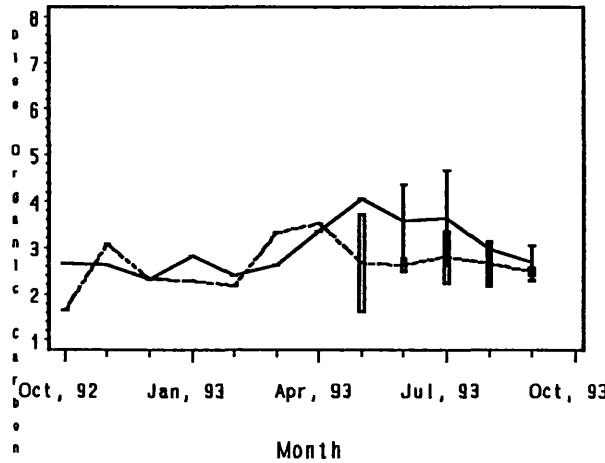


Layer — Surface — Bottom

Station Id=WE4.2

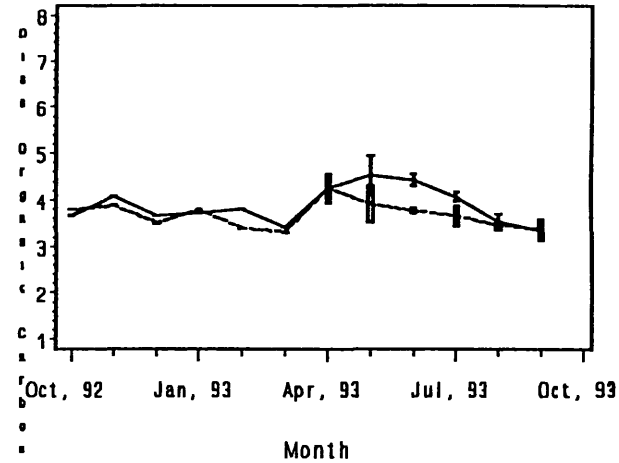


Layer — Surface — Bottom
Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom

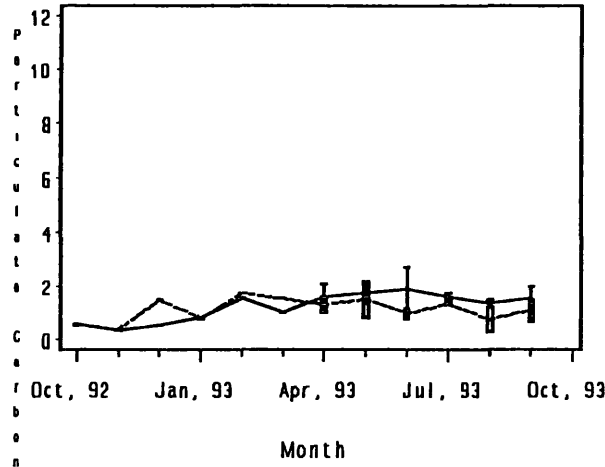
PARTICULATE CARBON

Values reported as mg/l.

Particulate Carbon
October, 1992 - September, 1993

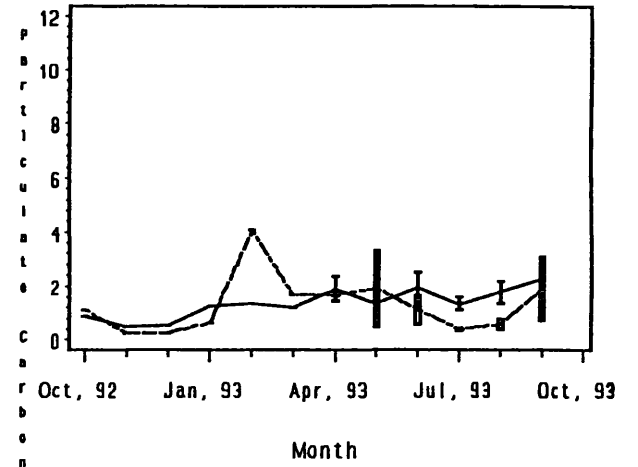
	Particulate Carbon (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	2.7080	1.3512	0.3610	2.1840	1.1364	0.2900
CB5.5.....	2.4970	1.5048	0.4910	4.0610	1.2875	0.2440
CB6.1.....	2.6720	1.4357	0.5110	2.3830	1.0846	0.2550
CB6.2.....	2.8190	1.3285	0.3330	4.7670	1.1941	0.4560
CB6.3.....	2.8460	1.4699	0.5670	3.7980	1.5987	0.6180
CB6.4.....	2.1100	1.2433	0.6700	2.5900	1.0997	0.0650
CB7.3.....	2.5900	1.1916	0.4600	2.1200	0.9761	0.4800
CB7.4.....	1.5400	0.9668	0.5000	4.0900	1.0982	0.3700
CB7.4N.....	2.0800	1.0253	0.4700	4.4700	1.2080	0.4900
CB8.1E.....	2.5200	1.1306	0.5400	2.7300	1.2083	0.5200
CB8.1.....	1.9300	1.1713	0.4900	2.8500	1.1335	0.2700
EE3.1.....	2.6080	1.7415	1.0570	3.9380	1.9308	0.5030
EE3.2.....	3.4950	1.7638	0.6420	XXXXXX	2.6287	0.6270
CB7.1N.....	3.3920	1.4913	0.6320	5.2590	2.0323	0.4200
CB7.1.....	2.4170	1.4881	0.4650	6.0110	1.6701	0.4900
CB7.1S.....	2.9700	1.4870	0.7570	3.2910	1.1994	0.1900
CB5.4W.....	3.4180	1.8249	0.4680	3.2810	1.6192	0.5560
CB7.2.....	2.7550	1.4297	0.7380	4.6120	1.8268	0.4640
CB7.2E.....	3.3130	1.3996	0.5850	3.2890	1.0935	0.4910
CB7.3E.....	2.3000	1.1328	0.5100	3.4200	1.1353	0.5400
LE3.6.....	2.8830	1.5761	0.5030	5.2740	1.7733	0.4420
LE3.7.....	4.3520	1.8554	0.5480	4.1570	1.6024	0.4460
WE4.1.....	2.5600	1.5305	0.7460	2.6700	1.4938	0.6970
WE4.2.....	2.0740	1.2797	0.5890	4.5120	1.5801	0.6680
WE4.3.....	2.8350	1.4753	0.4810	3.2260	1.5373	0.3520
WE4.4.....	3.5790	1.8274	0.3740	4.6700	1.9292	0.3800
LE5.5.....	2.8300	1.2465	0.4500	2.1700	1.0884	0.0650

Station Id=CB5.4



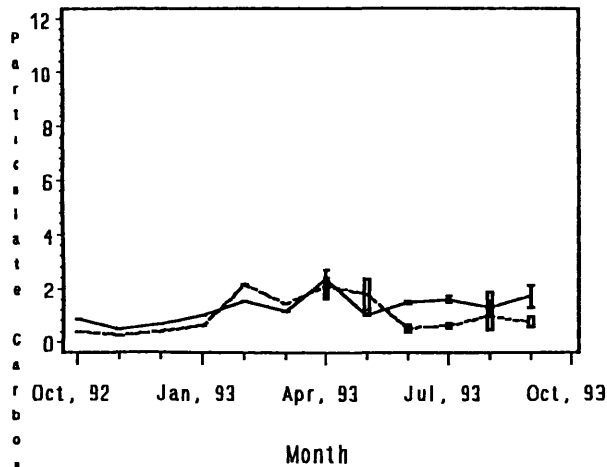
Layer — Surface - - - Bottom

Station Id=CB5.5



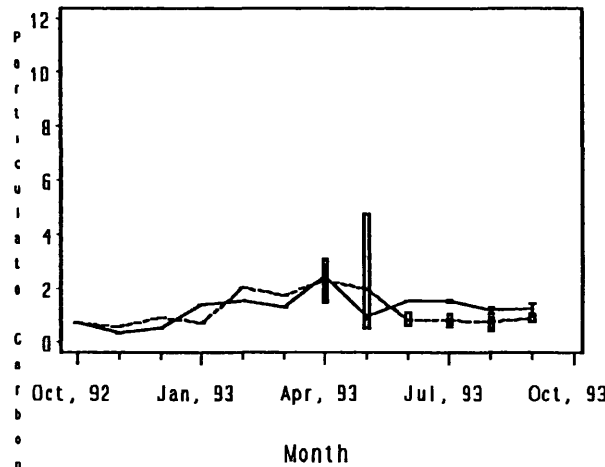
Layer — Surface - - - Bottom

Station Id=CB6.1



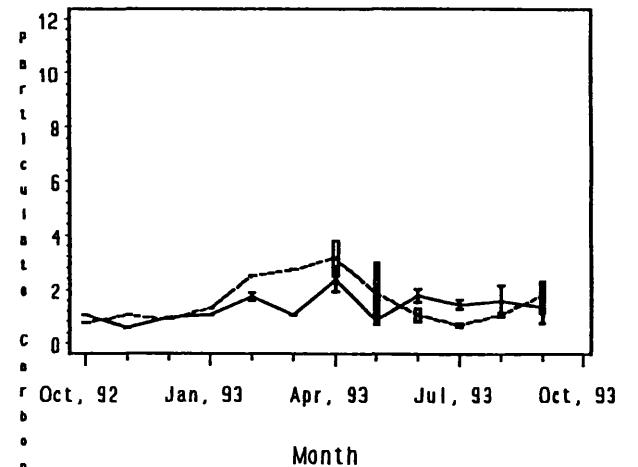
Layer — Surface - - - Bottom

Station Id=CB6.2



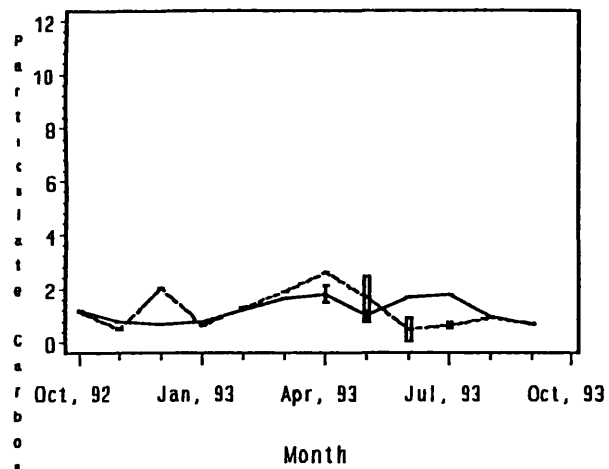
Layer — Surface - - - Bottom

Station Id=CB6.3



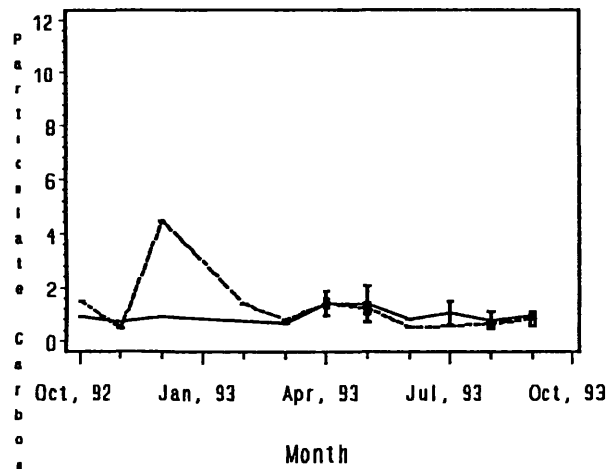
Layer — Surface - - - Bottom

Station Id=CB6.4



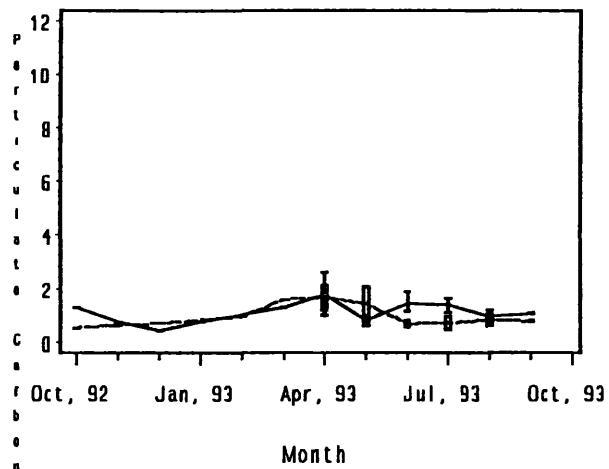
Layer — Surface — Bottom

Station Id=CB7.4N



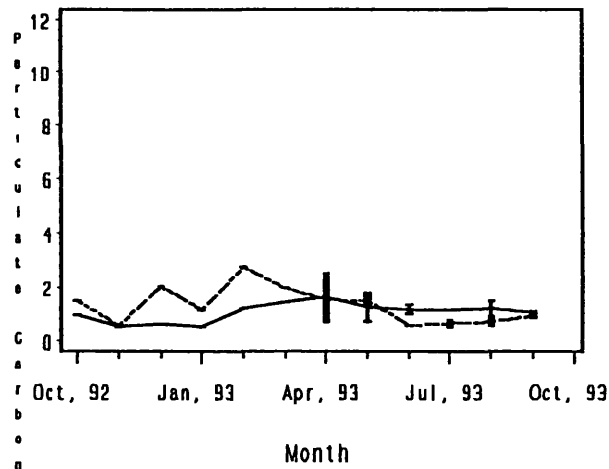
Layer — Surface — Bottom

Station Id=CB7.3



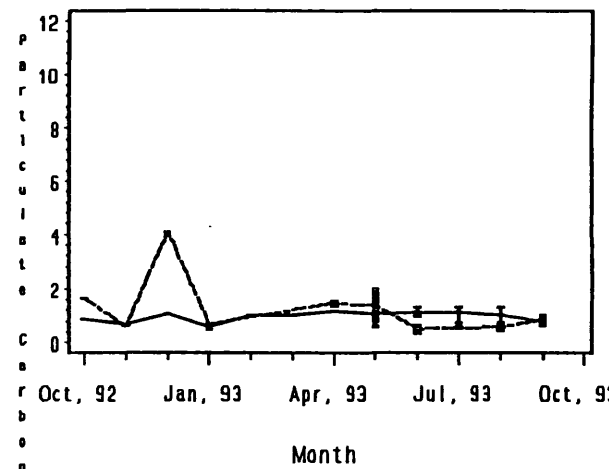
Layer — Surface — Bottom

Station Id=CB8.1E



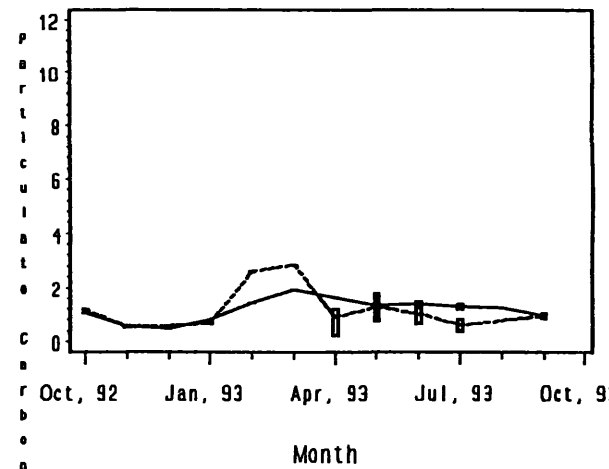
Layer — Surface — Bottom

Station Id=CB7.4



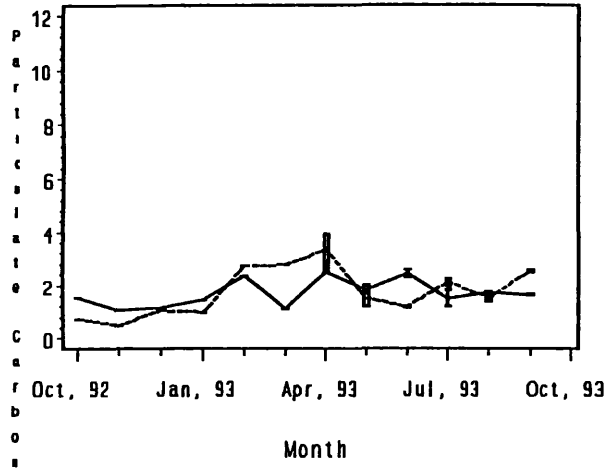
Layer — Surface — Bottom

Station Id=CB8.1



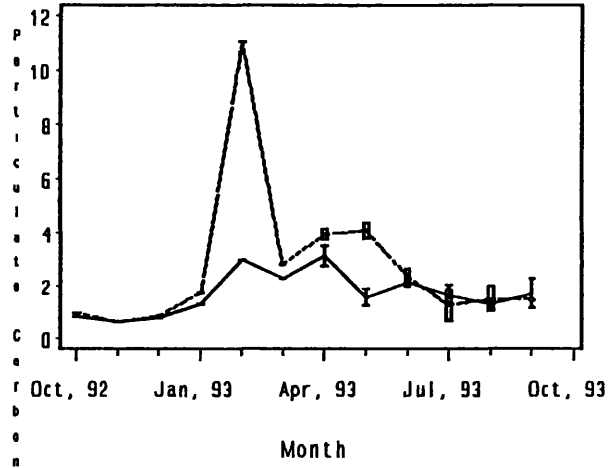
Layer — Surface — Bottom

Station Id=EE3.1



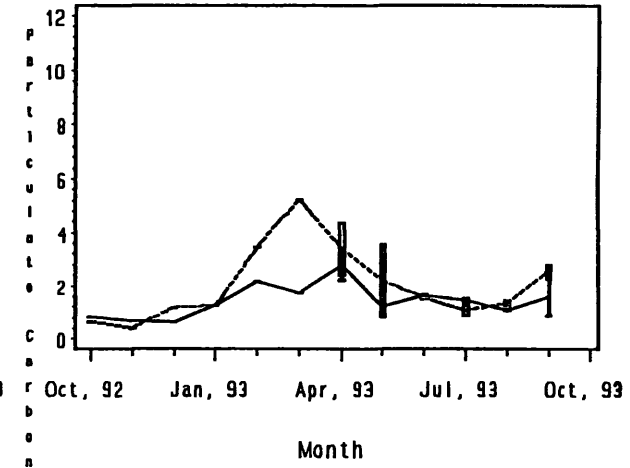
Layer — Surface — Bottom
 Station Id=CB7.1

Station Id=EE3.2

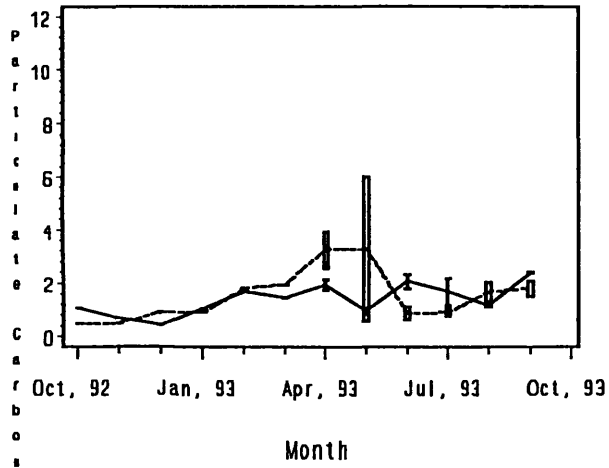


Layer — Surface — Bottom
 Station Id=CB7.1S

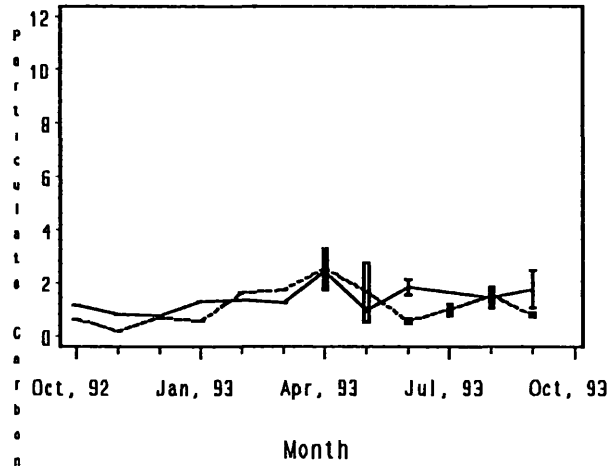
Station Id=CB7.1N



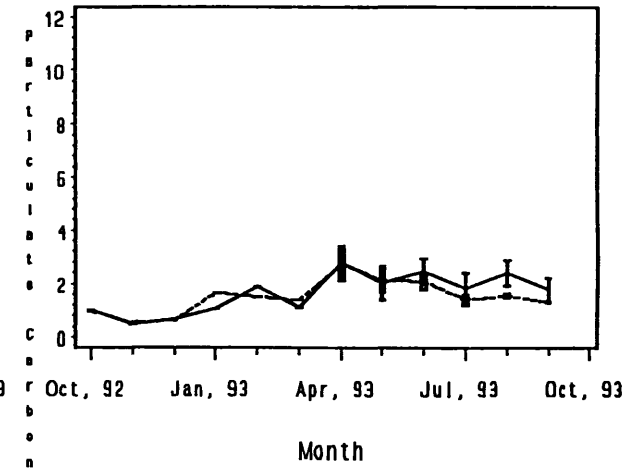
Layer — Surface — Bottom
 Station Id=CB5.4W



Layer — Surface — Bottom

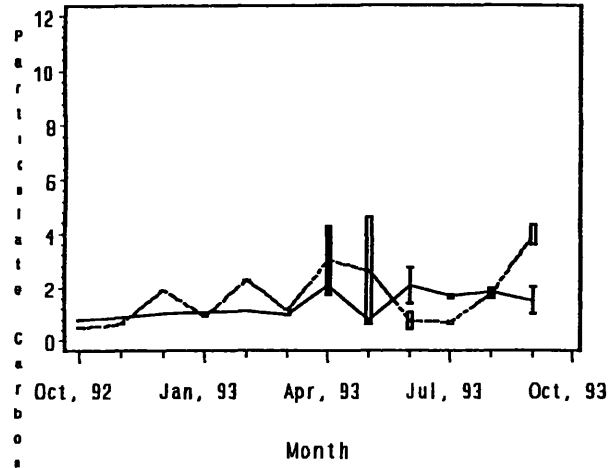


Layer — Surface — Bottom



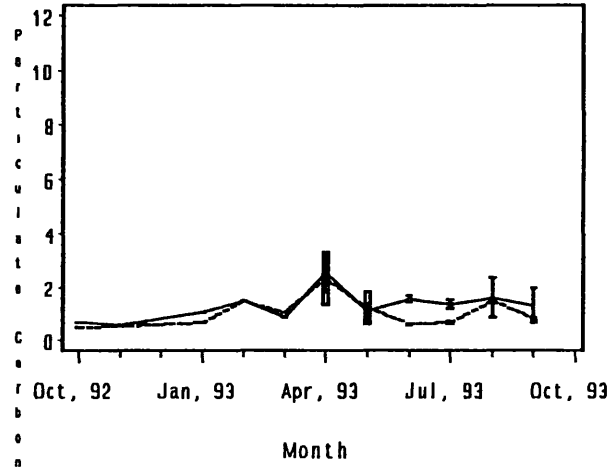
Layer — Surface — Bottom

Station Id=CB7.2



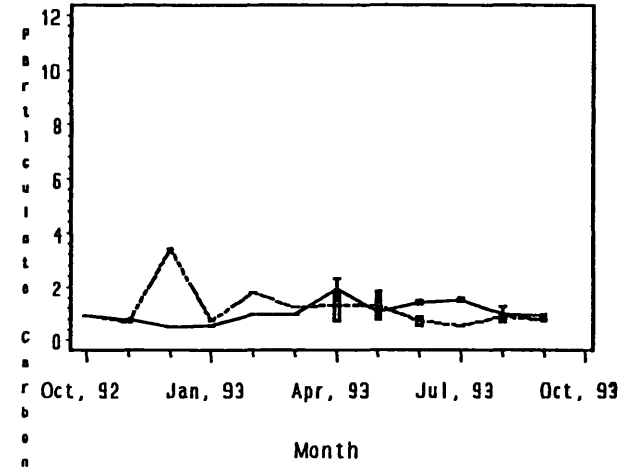
Layer — Surface — Bottom
Station Id=LE3.6

Station Id=CB7.2E

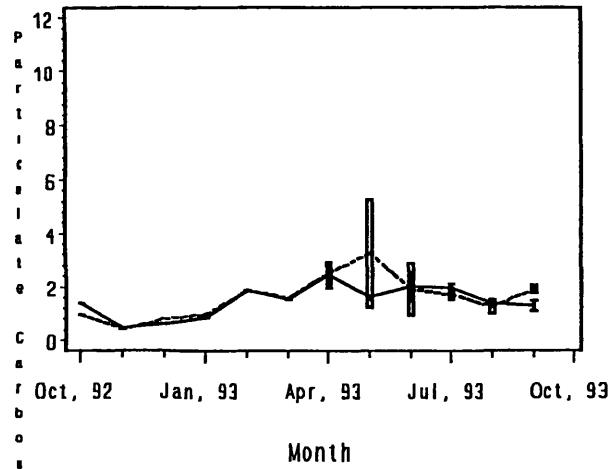


Layer — Surface — Bottom
Station Id=LE3.7

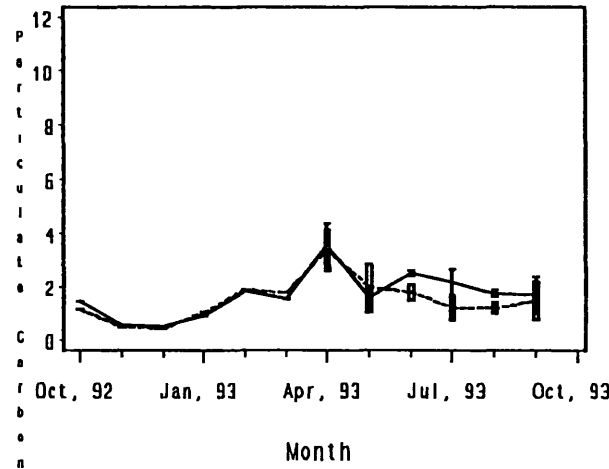
Station Id=CB7.3E



Layer — Surface — Bottom

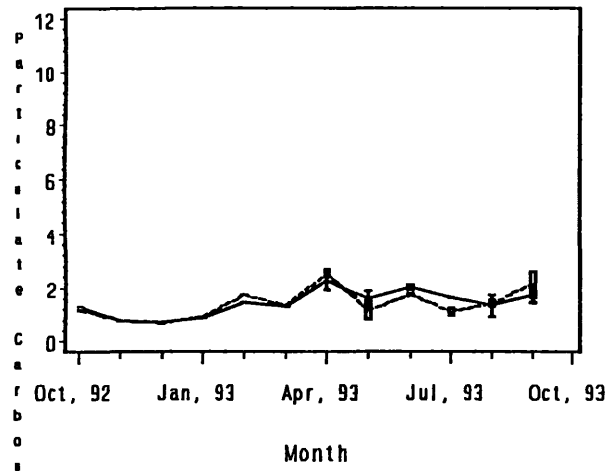


Layer — Surface — Bottom



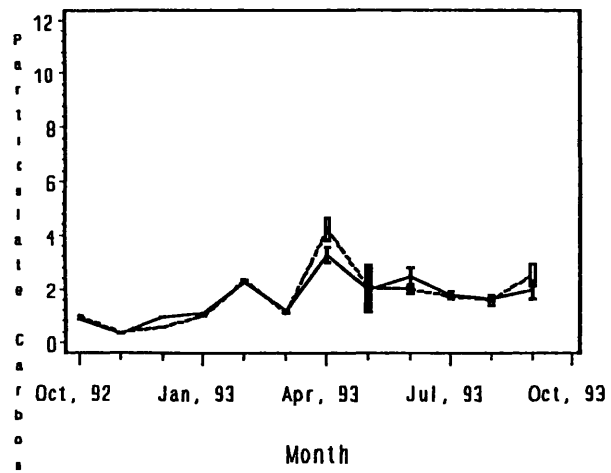
Layer — Surface — Bottom

Station Id=WE4.1



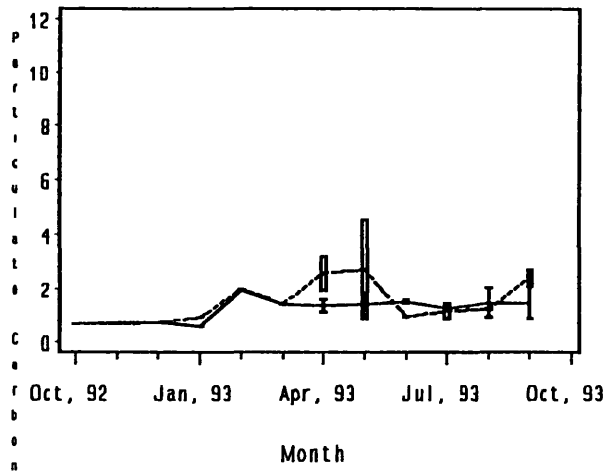
Layer — Surface — Bottom

Station Id=WE4.4



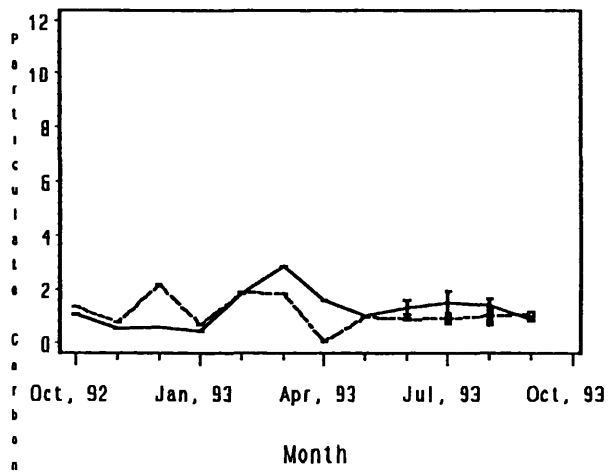
Layer — Surface — Bottom

Station Id=WE4.2



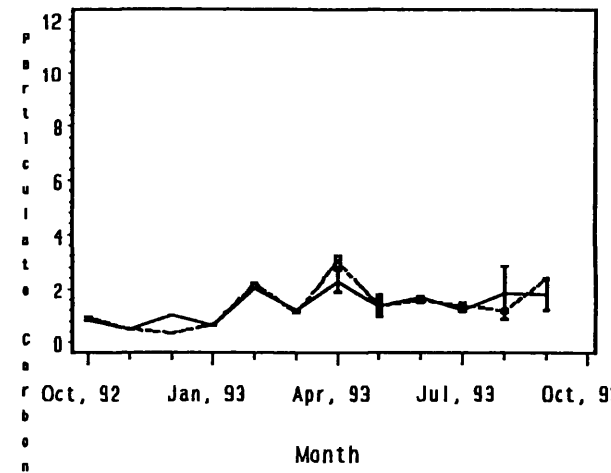
Layer — Surface — Bottom

Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



Layer — Surface — Bottom

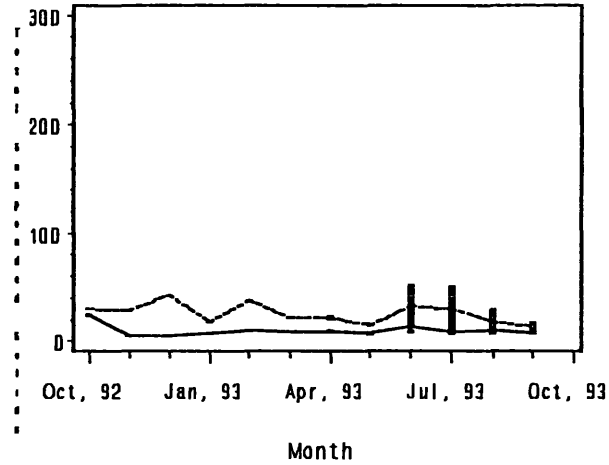
TOTAL SUSPENDED SOLIDS

Values reported as mg/l.

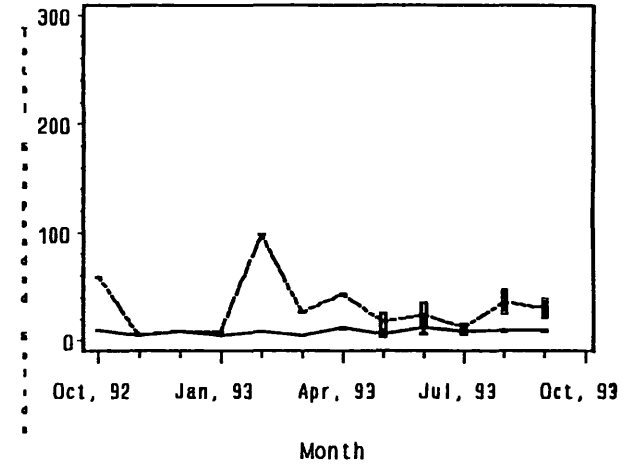
Total Suspended Solids
October, 1992 - September, 1993

	Total Suspended Solids (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	25.00	9.69	5.00	52.00	24.46	7.40
CB5.5.....	21.60	9.13	4.40	98.00	29.81	6.00
CB6.1.....	25.80	9.77	4.80	41.60	19.35	4.60
CB6.2.....	32.80	11.56	4.00	59.00	25.81	5.80
CB6.3.....	26.20	11.53	3.00	56.80	34.66	14.00
CB6.4.....	52.00	25.66	8.20	91.00	36.92	10.30
CB7.3.....	72.00	25.73	7.60	112.50	42.46	10.50
CB7.4.....	86.00	23.56	8.80	215.00	50.06	13.00
CB7.4N.....	80.00	31.96	6.80	231.30	46.65	3.50
CB8.1E.....	42.00	19.69	7.70	112.00	43.89	11.30
CB8.1.....	45.00	20.89	10.60	83.30	35.22	18.00
EE3.1.....	34.20	21.06	10.60	59.20	28.52	12.00
EE3.2.....	38.60	19.91	8.20	141.20	40.26	10.60
CB7.1N.....	30.80	12.67	5.20	98.40	39.21	12.20
CB7.1.....	32.80	14.33	3.60	66.40	27.62	7.80
CB7.1S.....	32.20	12.72	4.20	67.40	24.46	6.40
CB5.4W.....	41.60	14.01	5.20	32.00	15.89	6.40
CB7.2.....	30.60	11.68	3.40	116.40	44.45	13.40
CB7.2E.....	21.40	11.27	5.00	47.40	21.45	8.80
CB7.3E.....	60.00	23.44	11.00	182.50	45.86	10.50
LE3.6.....	37.60	12.44	4.40	46.40	16.21	7.60
LE3.7.....	36.00	13.61	5.60	32.60	16.73	6.80
WE4.1.....	31.80	15.37	5.20	39.50	18.18	6.80
WE4.2.....	25.00	14.01	6.80	154.80	34.15	12.00
WE4.3.....	35.60	17.36	6.80	72.40	21.39	6.80
WE4.4.....	36.20	21.46	6.60	54.80	25.73	8.80
LE5.5.....	54.70	28.23	9.30	168.70	64.19	25.50

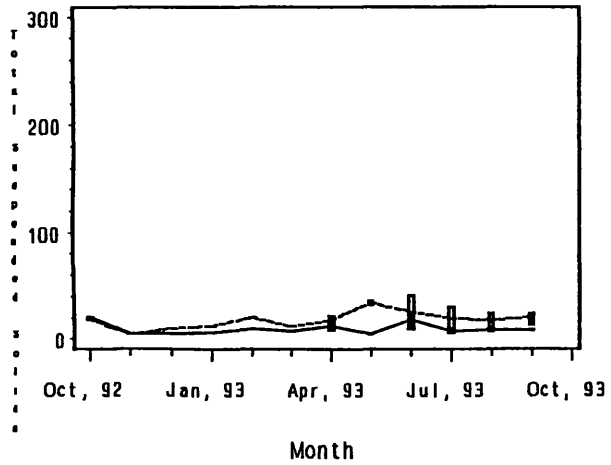
Station Id=CB5.4



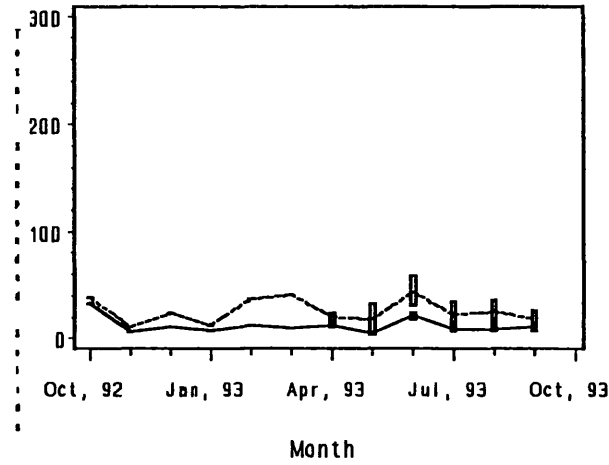
Station Id=CB5.5



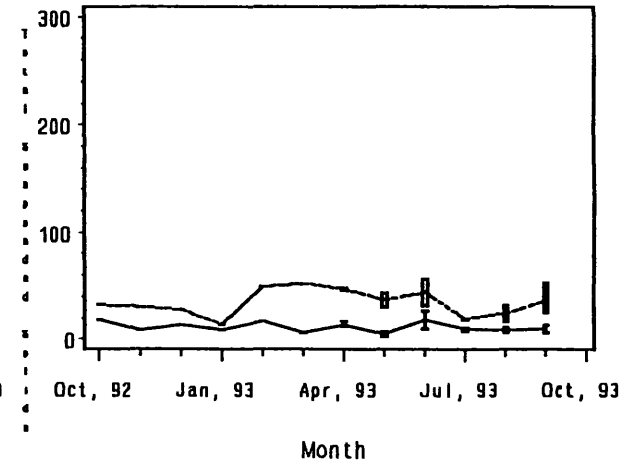
Station Id=CB6.1



Station Id=CB6.2



Station Id=CB6.3

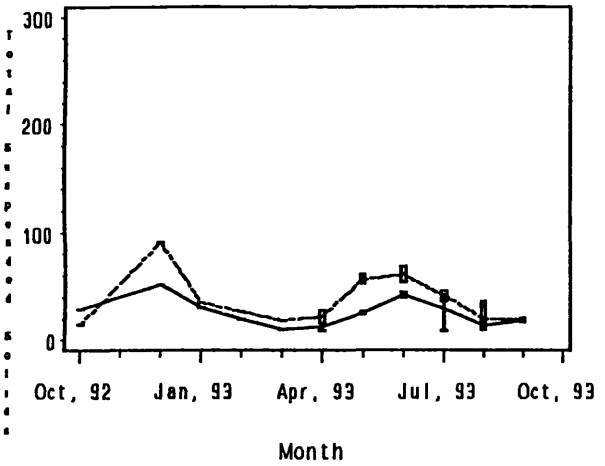


Layer — Surface — Bottom

Layer — Surface — Bottom

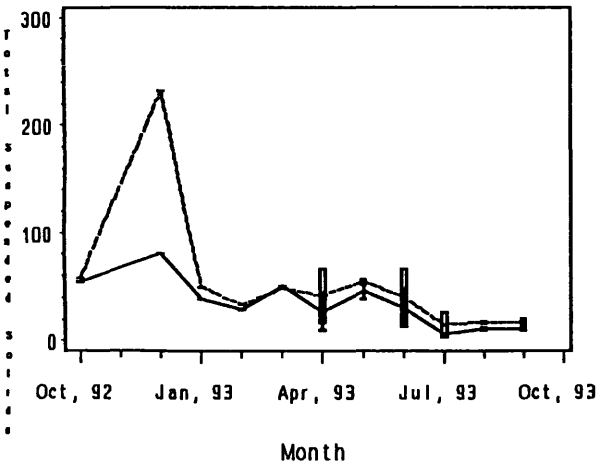
Layer — Surface — Bottom

Station Id=CB6.4



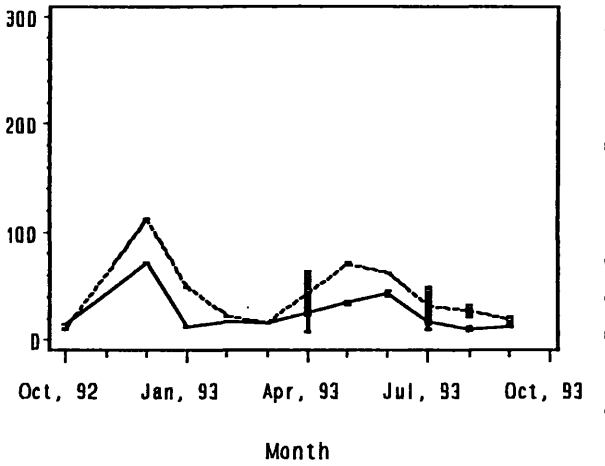
Layer — Surface — Bottom

Station Id=CB7.4N



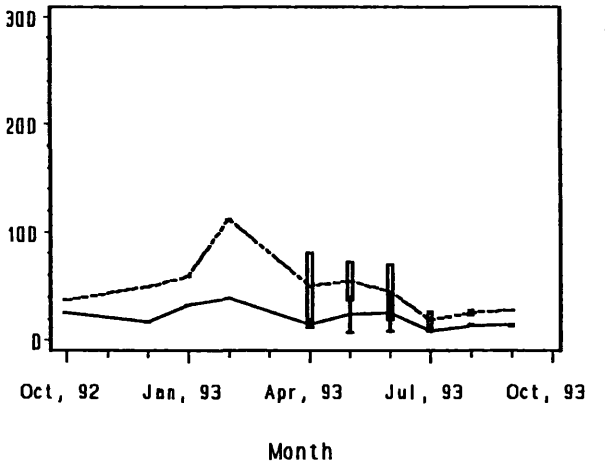
Layer — Surface — Bottom

Station Id=CB7.3



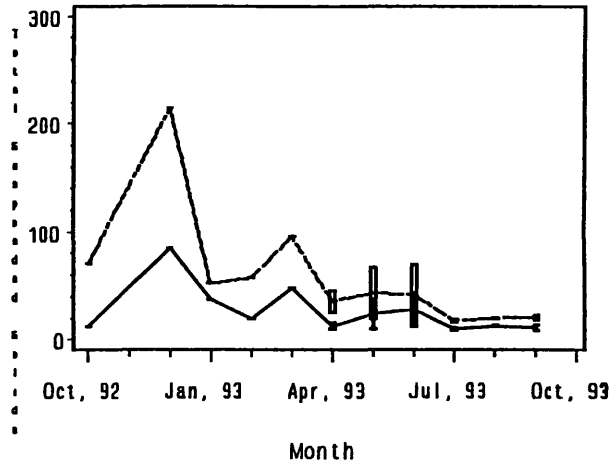
Layer — Surface — Bottom

Station Id=CB8.1E



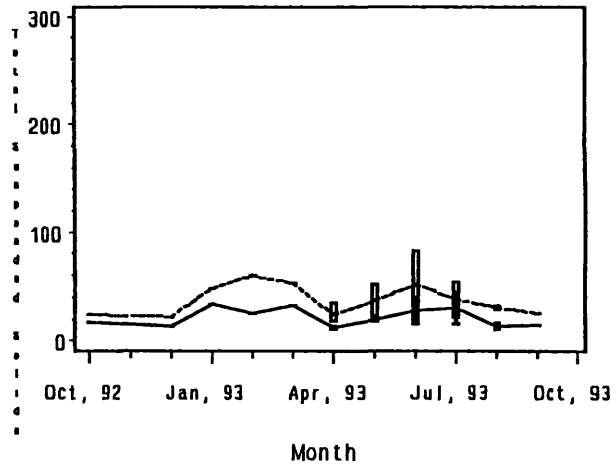
Layer — Surface — Bottom

Station Id=CB7.4



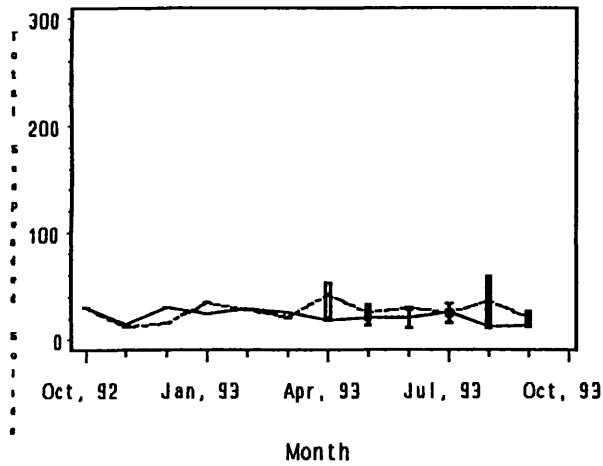
Layer — Surface — Bottom

Station Id=CB8.1



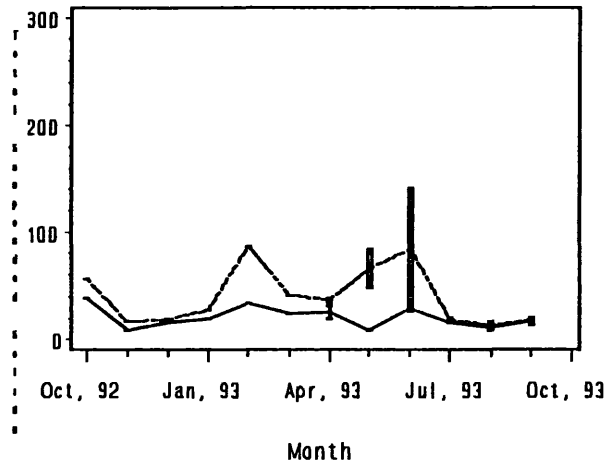
Layer — Surface — Bottom

Station Id=EE3.1



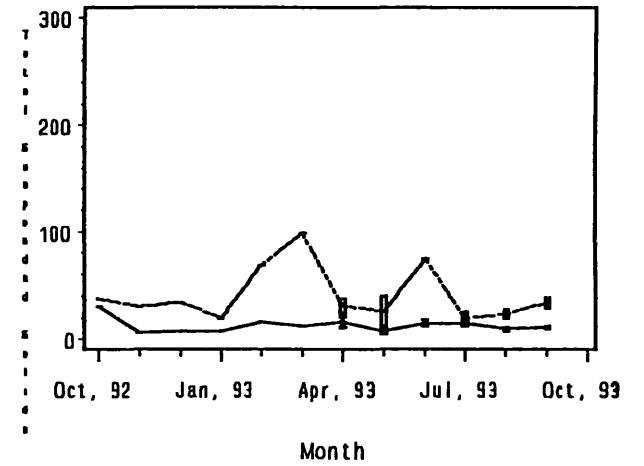
Layer — Surface — Bottom
 Station Id=CB7.1

Station Id=EE3.2

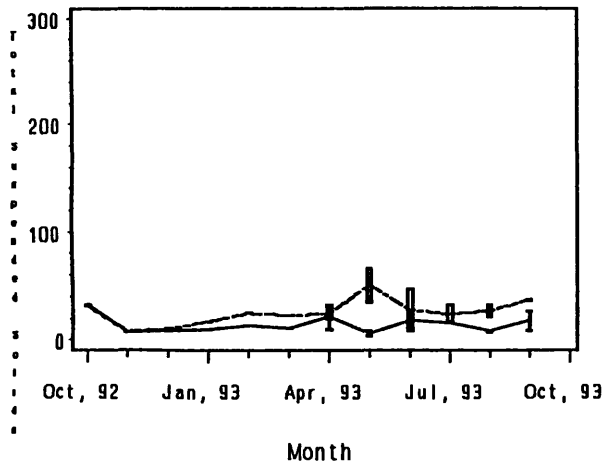


Layer — Surface — Bottom
 Station Id=CB7.1S

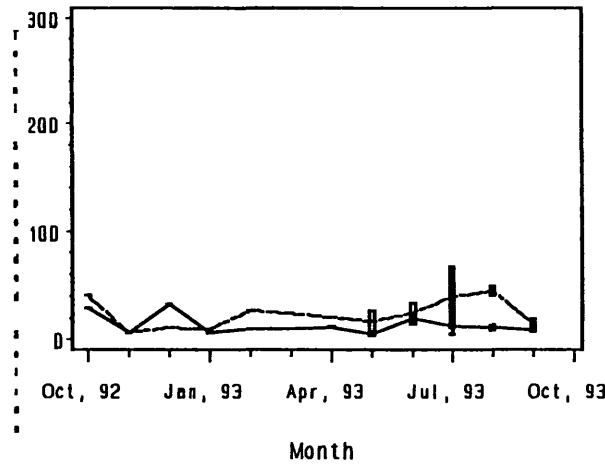
Station Id=CB7.1N



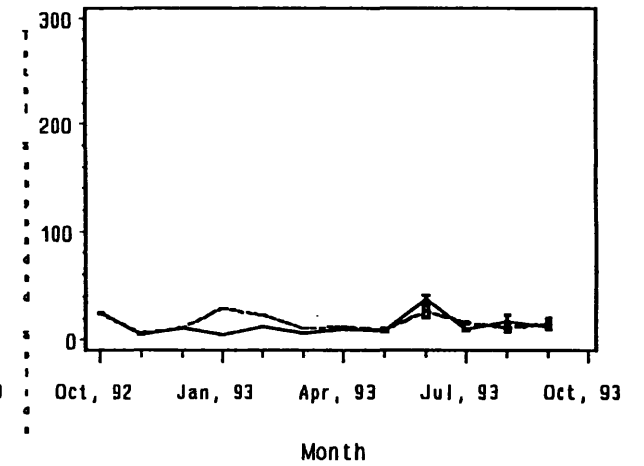
Layer — Surface — Bottom
 Station Id=CB5.4W



Layer — Surface — Bottom

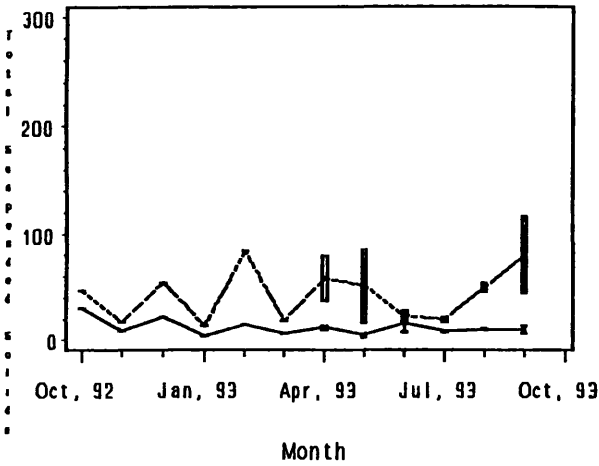


Layer — Surface — Bottom

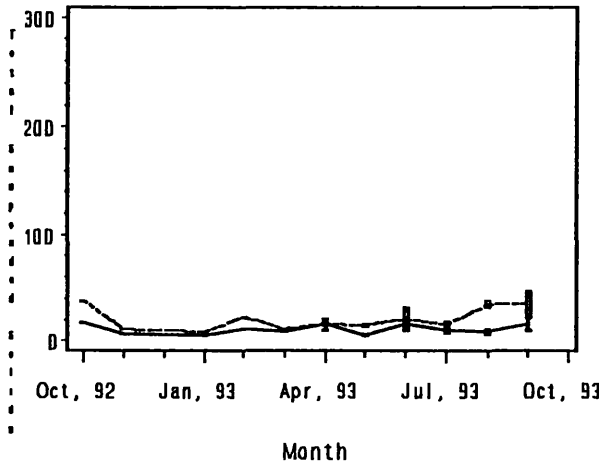


Layer — Surface — Bottom

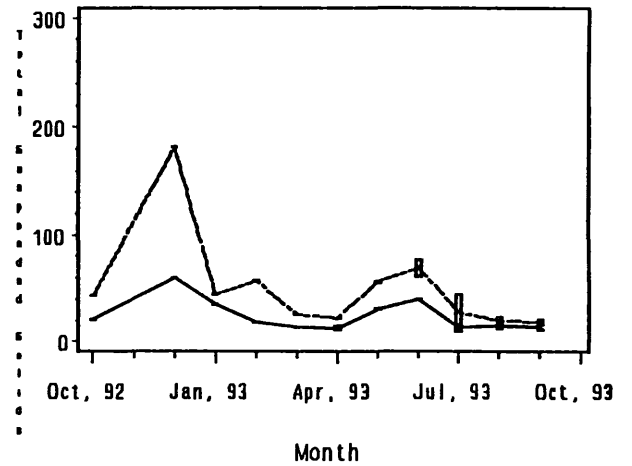
Station Id=CB7.2



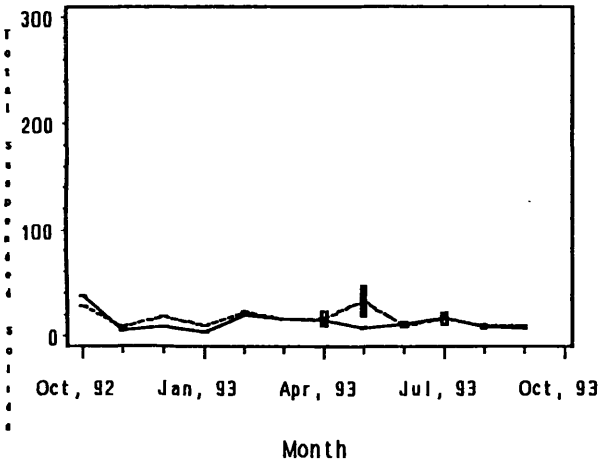
Station Id=CB7.2E



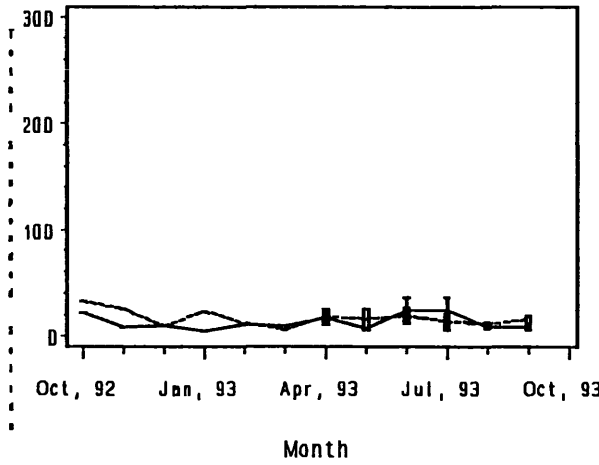
Station Id=CB7.3E



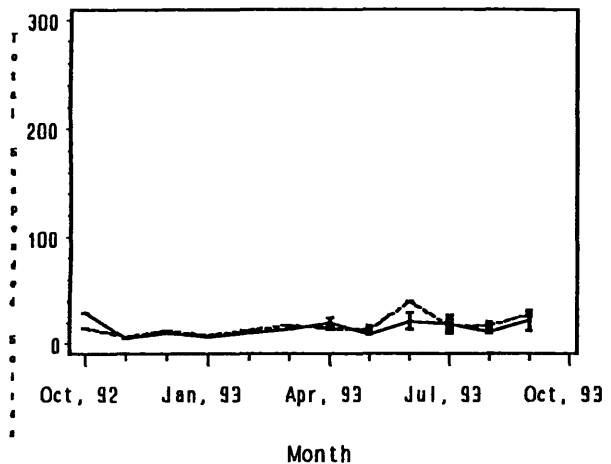
Station Id=LE3.6



Station Id=LE3.7

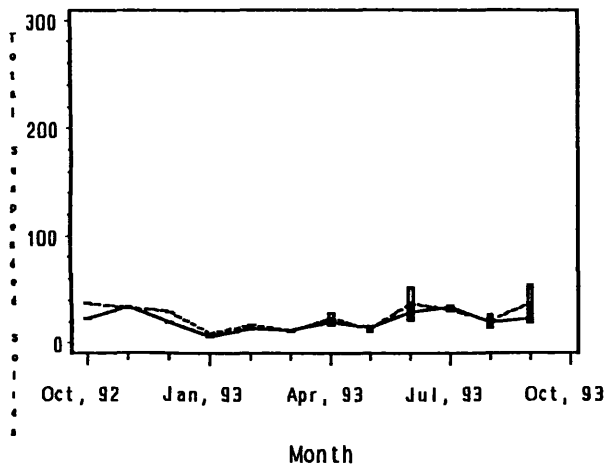


Station Id=WE4.1



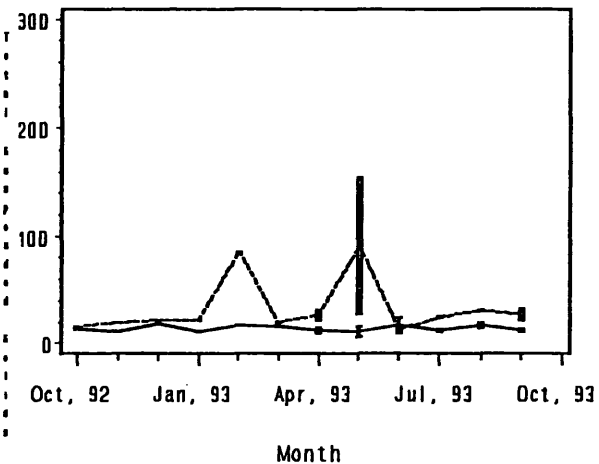
Layer — Surface — Bottom

Station Id=WE4.4



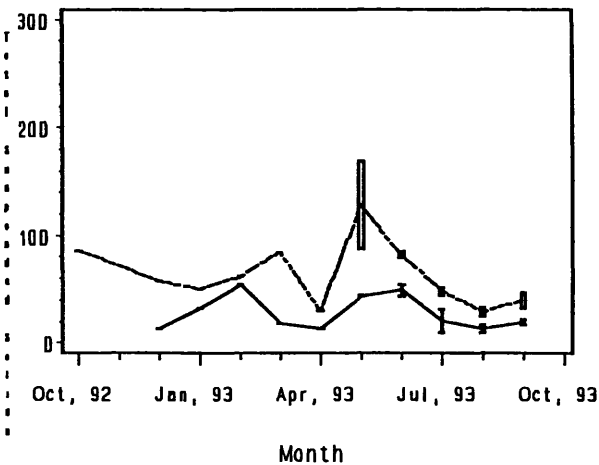
Layer — Surface — Bottom

Station Id=WE4.2



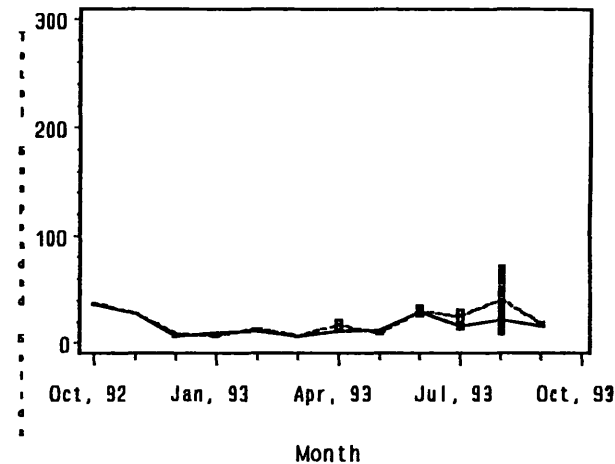
Layer — Surface — Bottom

Station Id=LE5.5



Layer — Surface — Bottom

Station Id=WE4.3



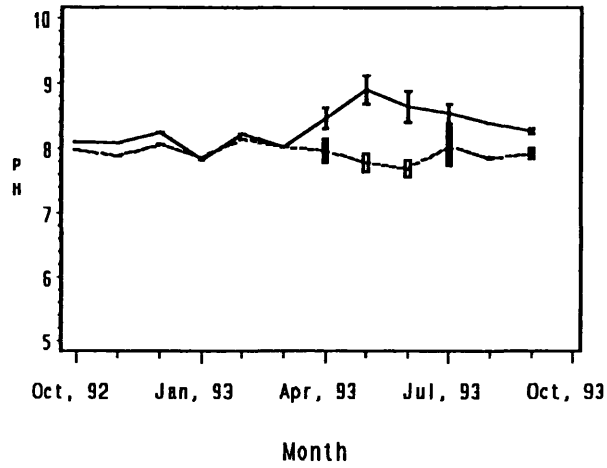
Layer — Surface — Bottom

pH

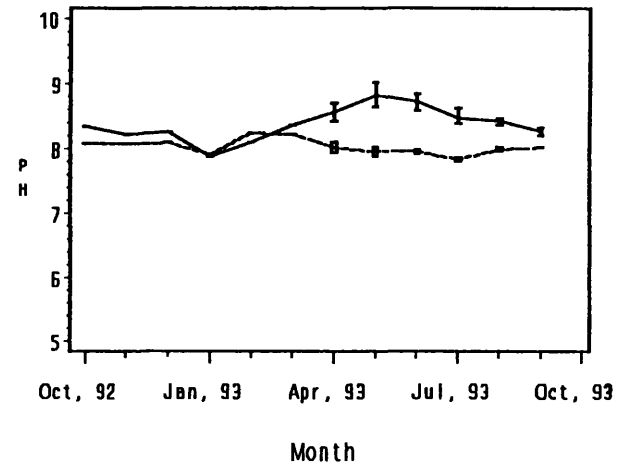
pH
October, 1992 - September, 1993

	pH					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.4.....	9.12	8.38	7.82	8.31	7.91	7.57
CB5.5.....	9.02	8.44	7.88	8.24	8.00	7.79
CB6.1.....	9.05	8.48	8.00	8.35	8.02	7.78
CB6.2.....	8.91	8.45	8.03	8.48	8.11	7.83
CB6.3.....	8.93	8.45	7.95	8.41	8.11	7.89
CB6.4.....	8.30	7.70	6.91	8.04	7.50	7.03
CB7.3.....	8.44	7.70	5.90	8.05	7.49	6.45
CB7.4.....	8.77	7.79	6.95	8.13	7.66	7.19
CB7.4N.....	8.43	7.69	6.99	8.29	7.69	7.17
CB8.1E.....	8.89	7.74	6.65	8.18	7.59	6.58
CB8.1.....	8.66	7.90	7.48	8.58	7.72	7.22
EE3.1.....	8.51	8.16	7.76	8.54	8.07	7.81
EE3.2.....	8.55	8.16	7.69	8.59	8.09	7.70
CB7.1N.....	8.63	8.24	7.77	8.64	8.09	7.83
CB7.1.....	8.84	8.41	8.18	8.61	8.10	7.72
CB7.1S.....	9.05	8.48	8.23	8.52	8.16	7.86
CB5.4W.....	9.06	8.41	7.71	8.98	8.41	7.94
CB7.2.....	8.91	8.40	7.86	8.52	8.09	7.85
CB7.2E.....	8.86	8.35	7.82	8.56	8.19	7.94
CB7.3E.....	8.60	7.66	6.60	8.19	7.52	6.93
LE3.6.....	8.80	8.39	7.88	8.68	8.22	7.75
LE3.7.....	8.96	8.39	7.04	8.87	8.32	7.90
WE4.1.....	8.68	8.26	7.59	8.61	8.20	7.82
WE4.2.....	8.71	8.01	7.42	8.41	7.98	7.55
WE4.3.....	8.79	8.29	7.38	8.78	8.29	7.74
WE4.4.....	8.88	8.33	7.72	8.94	8.36	7.94
LE5.5.....	8.17	7.81	6.73	8.06	7.65	7.03

Station Id=CB5.4

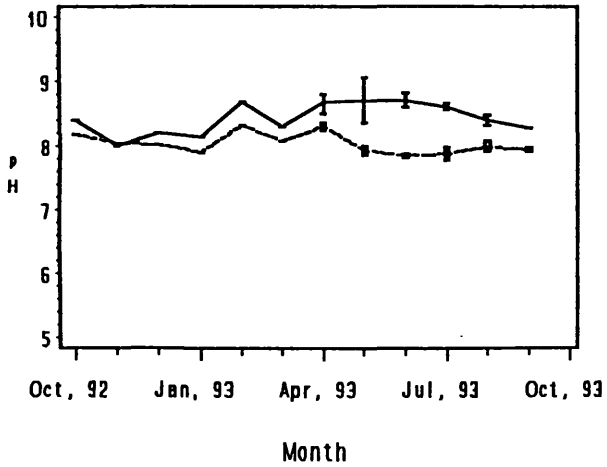


Station Id=CB5.5



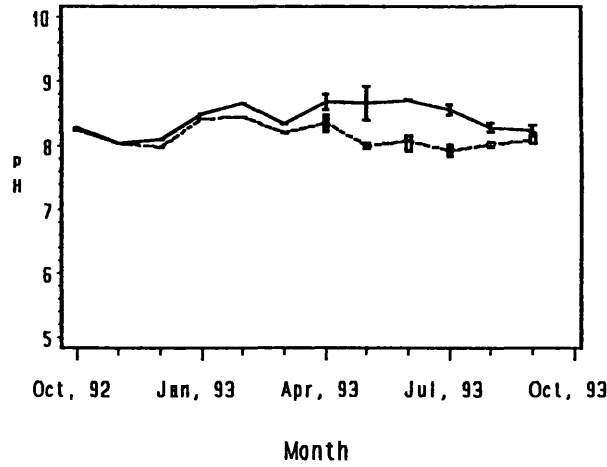
Layer — Surface - - - Bottom
Station Id=CB6.2

Station Id=CB6.1



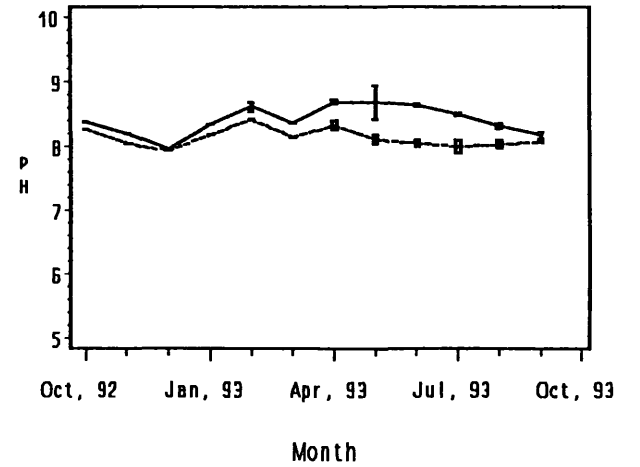
Layer — Surface - - - Bottom

Station Id=CB6.2



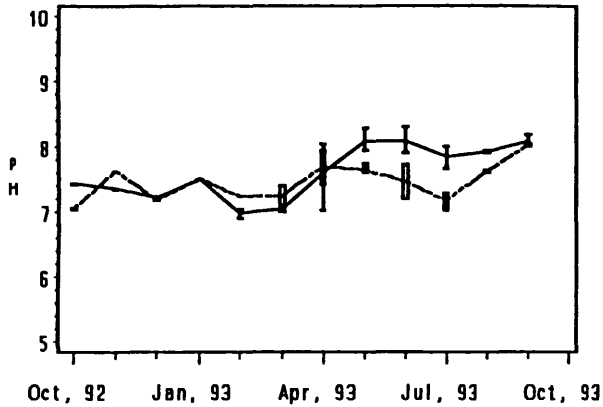
Layer — Surface - - - Bottom

Station Id=CB6.3

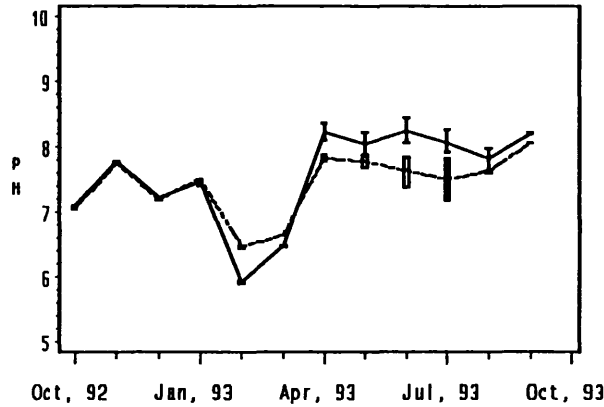


Layer — Surface - - - Bottom

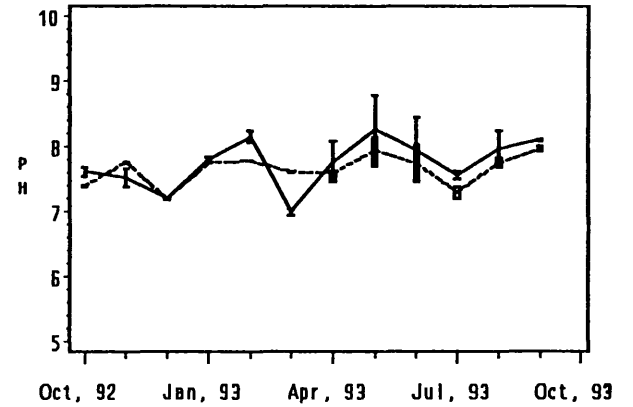
Station Id=CB6.4



Station Id=CB7.3



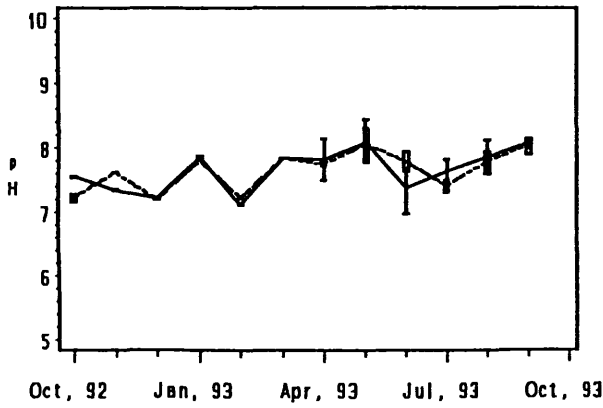
Station Id=CB7.4



Month

Layer — Surface — Bottom

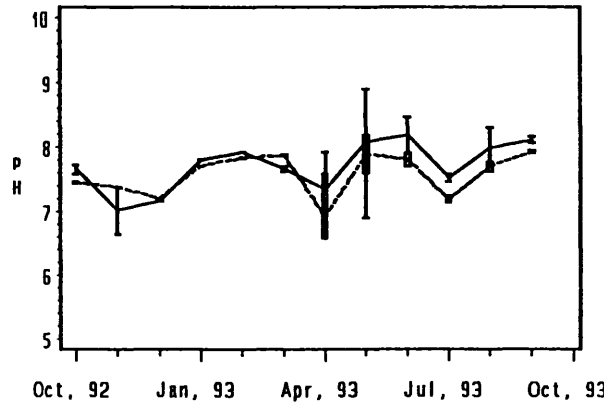
Station Id=CB7.4N



Month

Layer — Surface — Bottom

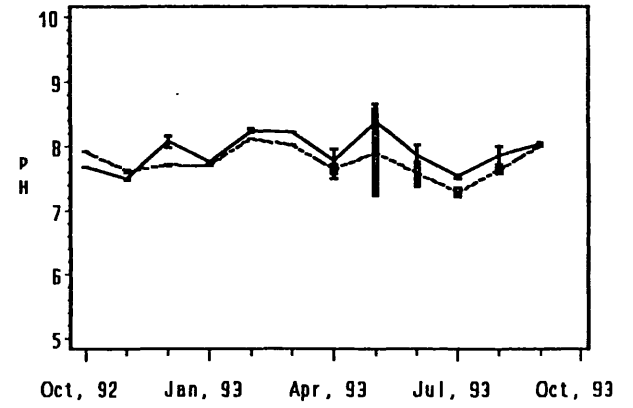
Station Id=CB8.1E



Month

Layer — Surface — Bottom

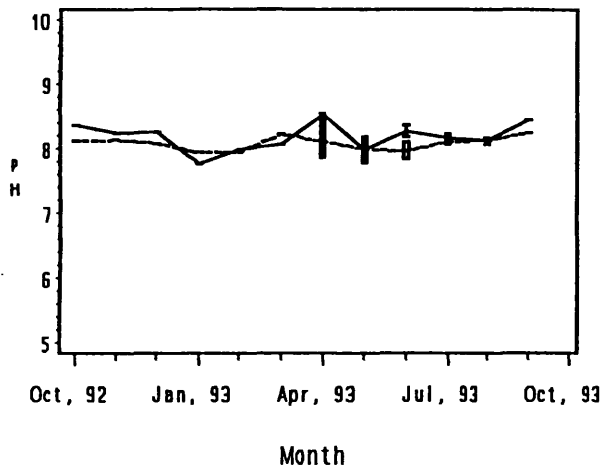
Station Id=CB8.1



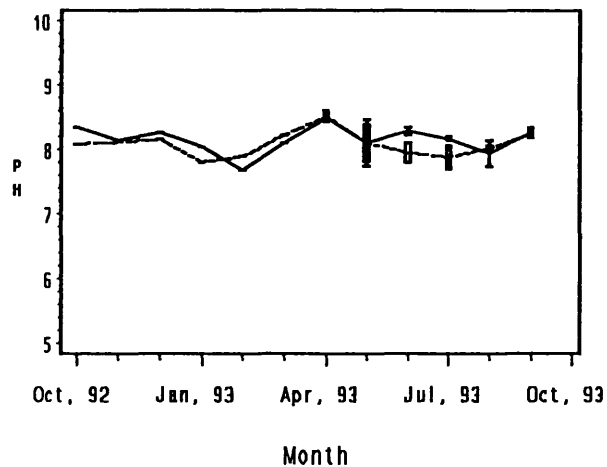
Month

Layer — Surface — Bottom

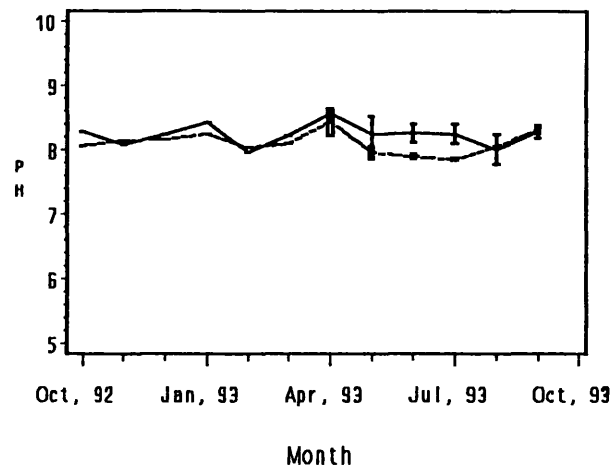
Station Id=EE3.1



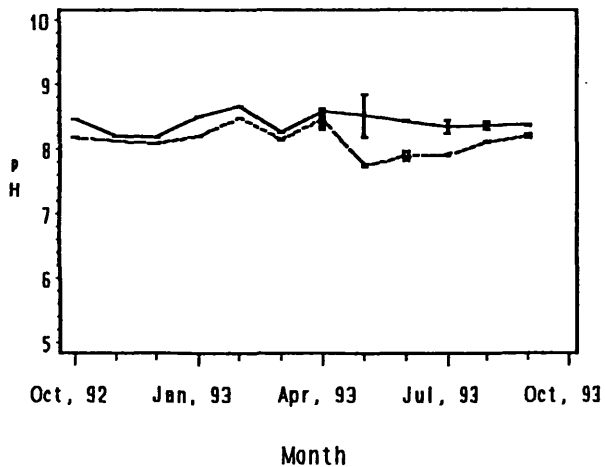
Station Id=EE3.2



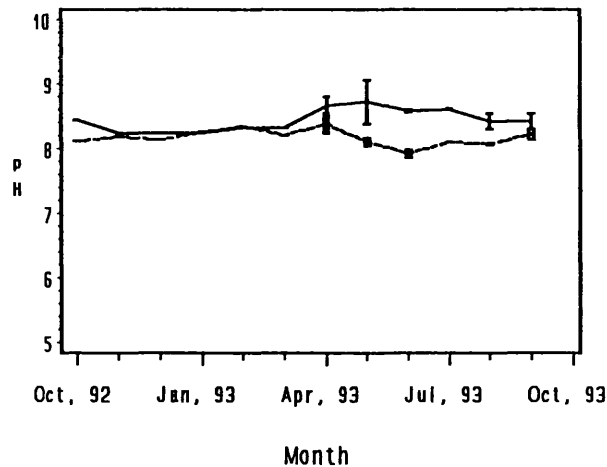
Station Id=CB7.1N



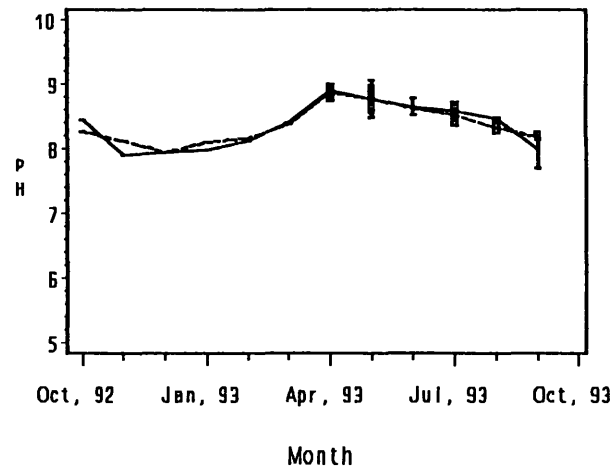
Layer — Surface — Bottom
Station Id=CB7.1



Layer — Surface — Bottom
Station Id=CB7.1S



Layer — Surface — Bottom
Station Id=CB5.4W

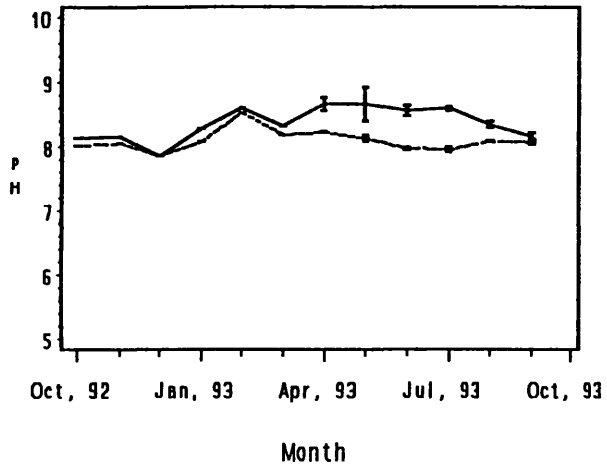


Layer — Surface — Bottom

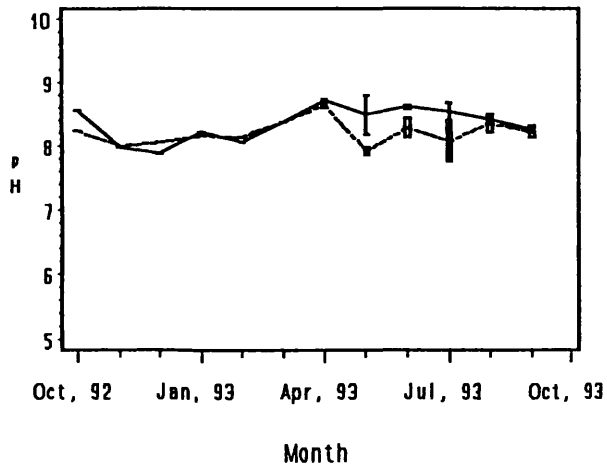
Layer — Surface — Bottom

Layer — Surface — Bottom

Station Id=CB7.2

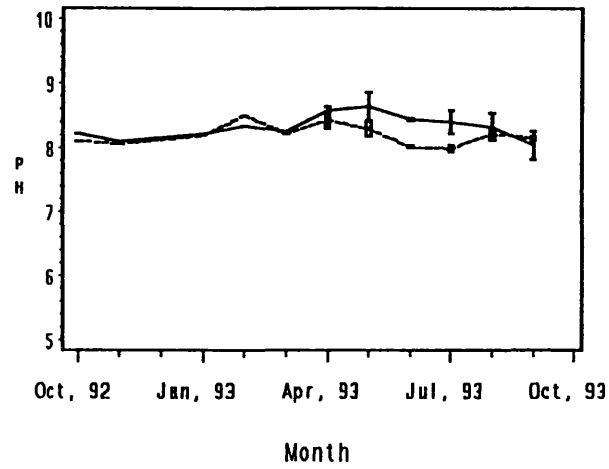


Layer — Surface — Bottom
Station Id=LE3.6

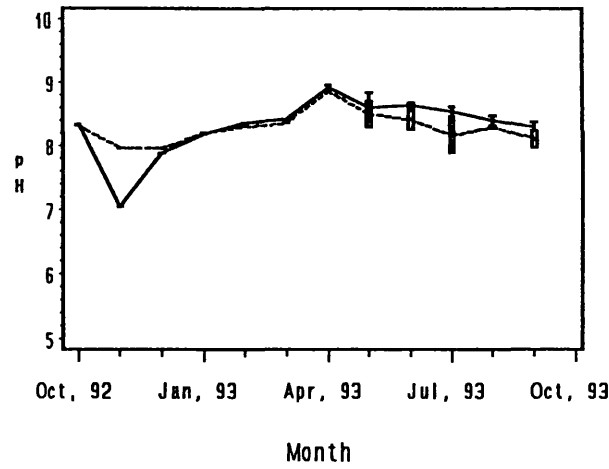


Layer — Surface — Bottom

Station Id=CB7.2E

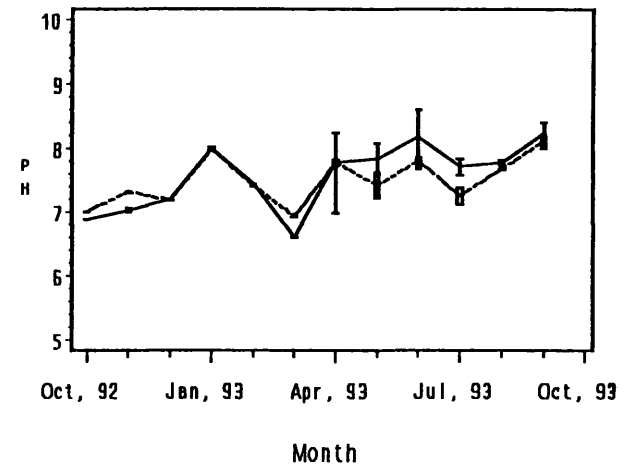


Layer — Surface — Bottom
Station Id=LE3.7



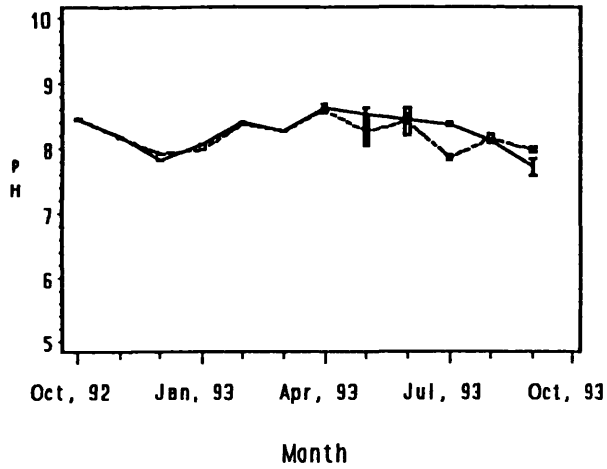
Layer — Surface — Bottom

Station Id=CB7.3E

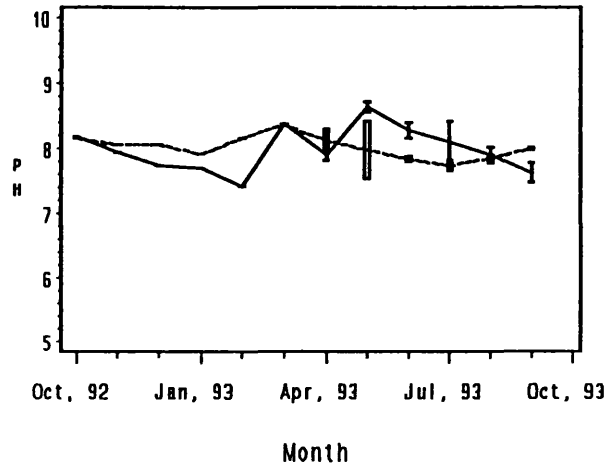


Layer — Surface — Bottom

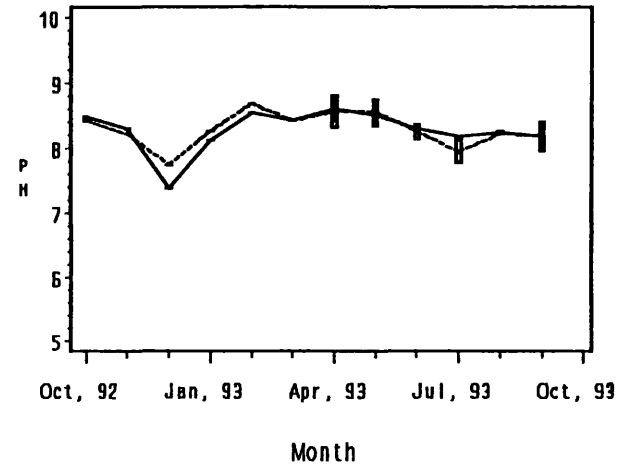
Station Id=WE4.1



Station Id=WE4.2

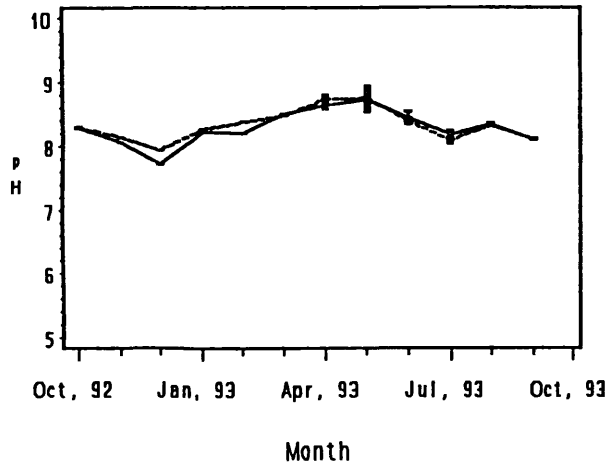


Station Id=WE4.3



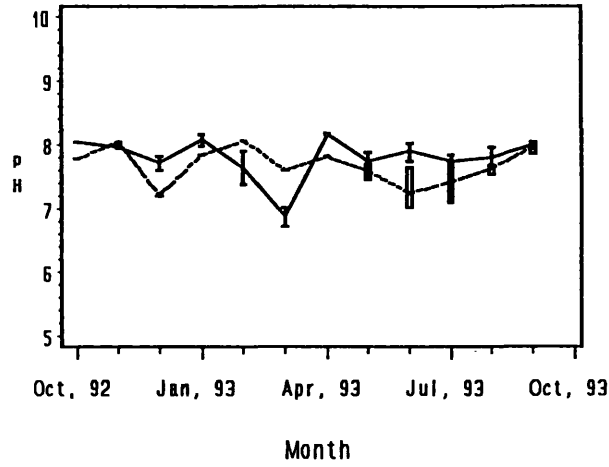
Layer — Surface — Bottom

Station Id=WE4.4



Layer — Surface — Bottom

Station Id=LE5.5



Layer — Surface — Bottom

Layer — Surface — Bottom