R150/91-04
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ULUSAL DENİZ ÖLÇÜM VE İZLEME PROGRAMI
DOĞU KARADENİZ ALT PROJESİ
1990 DÖNEMİ YILLIK RAPORU

Proje No: DEBÇAG-85/G

Destekleyen Kuruluş

TÜBİTAK DENİZ BİLİMLERİ
VE
ÇEVRE ARAŞTIRMALARI GRUBU

ORTA DOĞU TEKNİK ÜNİVERSİTESİ
DENİZ BİLİMLERİ ENSTİTÜSÜ
P.K. 28, 33731
Erdemli-İÇEL
Nisan, 1991

ODTÜ-DBE KÜTÜPHANESİ
METU-DMS LIBRARY

ÖNSÖZ

Ulusal Deniz Ölçüm ve İzleme Programı-Karadeniz Alt Projesi **(DEBÇAG-85/G)** çerçevesinde Doğu Karadeniz bölgesi kıyı ve açık deniz sularında 1990 yılı içerisinde ölçülen temel oşinografik ve biyokimyasal parametrelerin değişimleri, mevsimsel bazda, bu rapor kapsamında sunulmuştur.

Ülkemizi kuzeyden çevreleyen ve ekononik değeri yüksek olan bu denizimizle ilgili temel oluşturacak ve gelecek kuşaklara oşinografik bazlı bilgi aktarımını sağlayacak bu Ölçüm ve İzleme Programı'nın gerçekleştirilmesine önayak olan ve gerekli koordinasyonu sağlayan T.C. Başbakanlık Devlet Planlama Teşkilatı **(DPT)**, Türkiye Bilimsel ve Teknik Araştırma Kurumu-Deniz Bilimleri ve Çevre Araştırmaları Grubu **(TÜBİTAK-DEBÇAG)** ile Seyir, Hidrografi ve Oşinografi Hizmetleri Plan Koordinasyon Kurulu'na teşekkürü bir borç biliriz.

Ayrıca, söz konusu saha çalışmalarının ve ölçümlerin sağlıklı ve düzenli olarak yapılmasında, verilerin toplanmasında büyük özveri ile katkılarda bulunmuş tüm ODTÜ-Deniz Bilimleri Enstitüsü personeline ve R/V Bilim Gemisi personeline çalışmalarından dolayı teşekkür ederiz.

I. GİRİŞ

Ulusal Deniz Ölçüm ve İzleme Programı çerçevesinde Doğu Karadeniz bölgesinde yürütülen oşinografik saha çalışmalarına 1990 yılında da devam edilmiştir. Bu amaçla, ODTÜ-DBE tarafından Ocak, Nisan, ve Eylül, 1990 tarihlerinde toplam Üç saha çalışması yapılmıştır.

ODTÜ-DBE'ne ait R/V Bilim gemisiyle 1990 dönemi içinde yapılan saha çalışmalarından elde edilen fiziksel ve hidrokimyasal bulgular çizelgeler halinde bu rapor kapsamında sunulmuştur. Bu çalışmalarda ölçülen kimyasal parametrelerin kısa adları ve birimleri ise Çizelge 1'de verilmiştir.

BULGULARIN SAKLANMASI

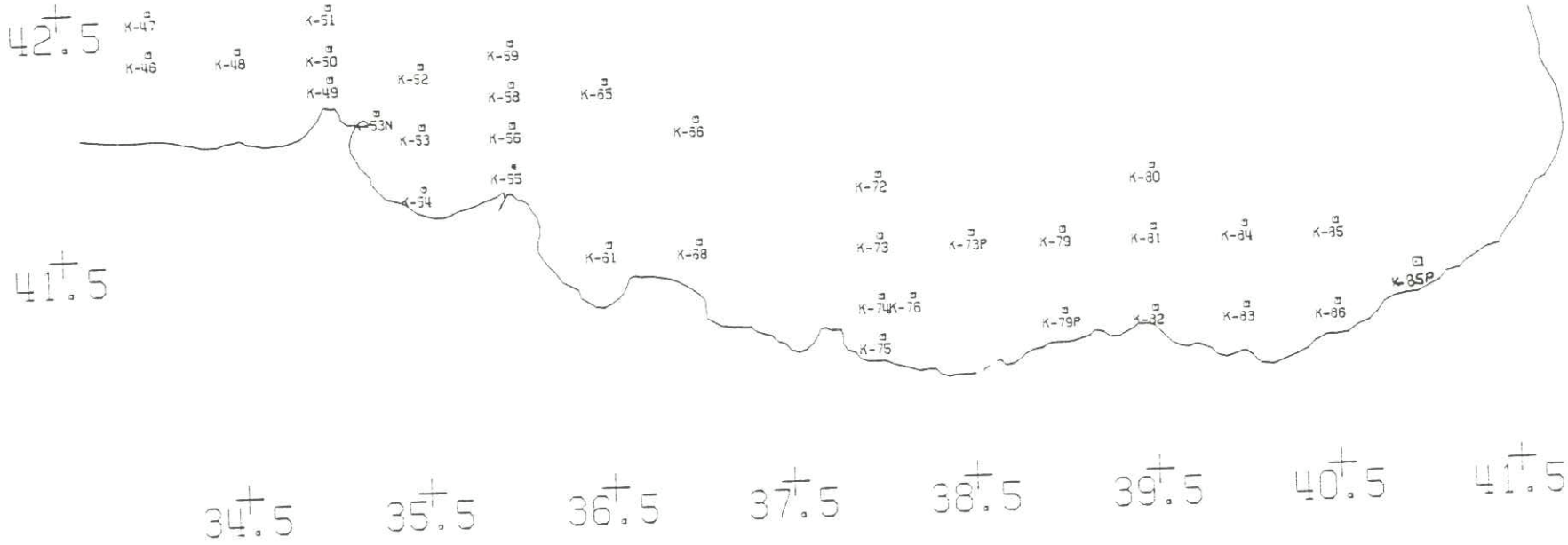
Ulusal Ölçme ve İzleme Programı-Karadeniz Alt Projesi kapsamında (DEBÇAG-85/G) ziyaret edilen istasyonların yerleri, sırasıyla, Şekil 1-3'te gösterilmiştir. Belirtilen dönemlere ait fiziksel ve hidrokimyasal bulgular ise, sırasıyla, Çizelge 2-4'te verilmiştir.

1990 Dönemi içinde ölçümü yapılan parametreler IBM disketleri halinde rapor ekinde sunulmaktadır. Analizi yapılan, fakat analitik tayin sınırlarının altında bulunan değerler "-11" olarak gösterilmiştir. Eylül,1990 dönemi saha çalışmaları esnasında ziyaret edilen istasyonların bir kesiminde yoğunluk arakesitine yakın olan derinliklerde çözünmüş oksijen ölçümleri, oksik ve anoksik tabakaların kesiştiği geçiş bölgesinde oksijen ve hidrojen sülfür ölçümleri birlikte daha sık aralıklarla yapılmıştır. Eylül,1990 dönemi çalışmalarında çözünmüş oksijen değerleri su kolonunda CTD-probu tarafından sağlanan tuzluluk ve yoğunluk değerleri gözönüne alınarak Rozet örnekleyicisi ile alınan su örneklerinde Winkler metodu kullanılarak yapılmıştır.

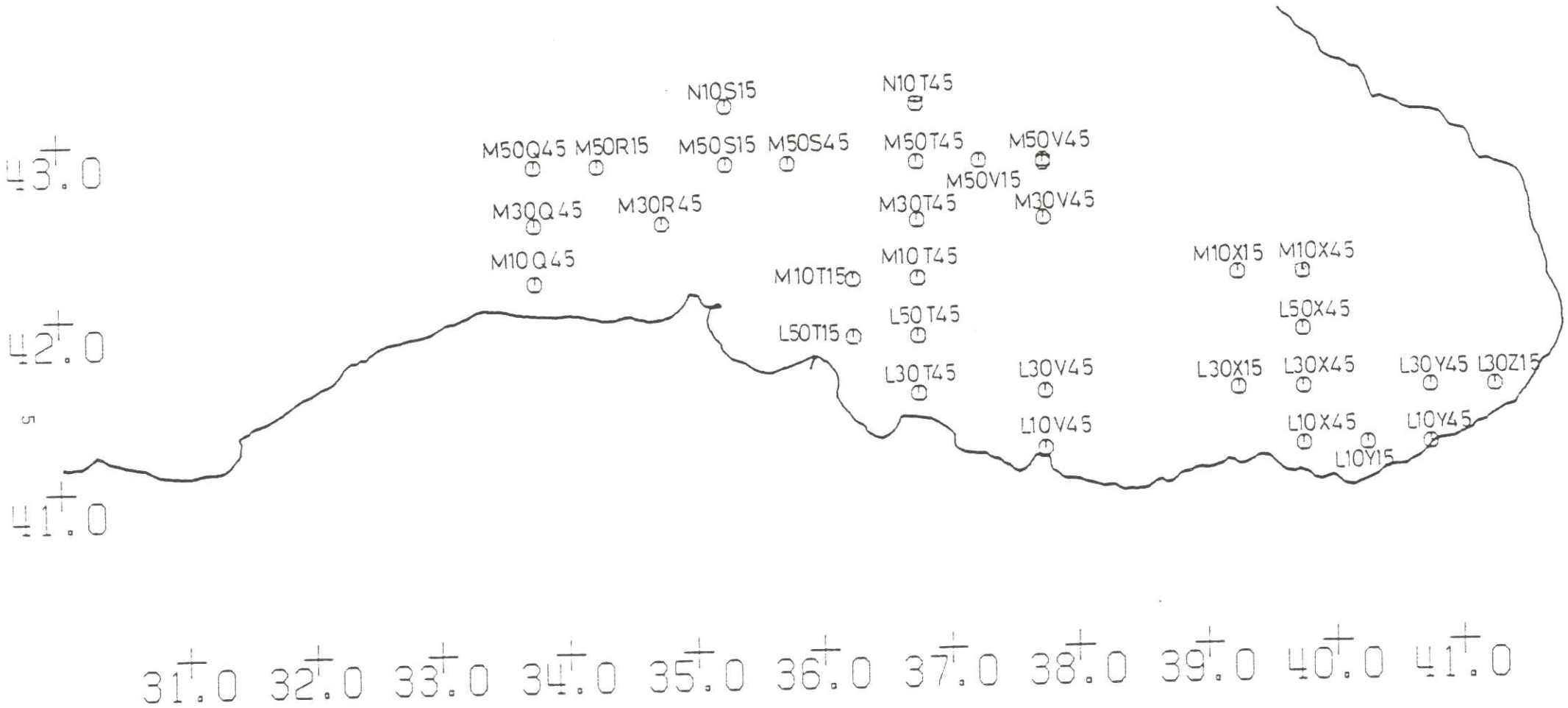
Çizelge-1: Ulusal Karadeniz çalışmaları kapsamında ölçümü yapılan parametreler ve bu parametrelere ait kısaltma ve birimler

Kısaltma	Parametre	Birim
H_2S	Hidrojen sülfür	mg/l
DO	Çözünmüş oksijen	mg/l
HM	Humik maddeler	mg/l
o-PO_4	orto-fosfat	µg-at P/l
NO_3 + NO_2	Toplam Oksitlenmiş azot Bileşikleri (NO_3+NO_2)	µg-at N/l
Si	Molibdat reaktif silikat ($Si(OH)_3$-Si)	µg-at Si/l
SW/PH	Suda çözünmüş-süspanse olmuş poliaromatik petrol hidrokarbonları	µg/l
SW/Hg	Suda toplam civa	ng/l
CHLL-a	Klorofil-a	µg/l
TSS	Toplam Asılı Katı	mg/l
T	Sıcaklık	°C
S	Tuzluluk	ppt

Şekil-1: Şubat, 1990 Döneminde Doğu Karadeniz'de biyokimyasal parametrelerin ölçüldüğü istasyonların konumları



Şekil-2; Nisan, 1990 Döneminde Doğu Karadeniz'de biyokimyasal parametrelerin ölçüldüğü istasyonların konumları



Şekil-3: Eylül, 1990 Döneminde Doğu Karadeniz'de biyokimyasal parametrelerin ölçüldüğü istasyonların konumları

ÇİZELGE 2: ŞUBAT, 1990 DÖNEMİNDE DOĞU KARADENİZ'DE ÖLÇÜLEN FİZİKSEL VE BİYOKİMYASAL PARAMETRELER

STATION NUMBER: K44
TOTAL DEPTH: 85.0 m.
PLACE:
DATE:11-02-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:00:50
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:34. 0'
LATITUDE:42. 5'
WIND:2
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:8.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.28
SD/PH:
SW/PH:0.52
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.80	17.88	13.98	10.01	0.07		0.06	1.02	
5.	6.80	17.88	13.98	10.67					
10.	6.80	17.88	13.98	11.09	0.06		0.06	1.09	3.30
15.	6.80	17.88	13.98	11.73					
20.	6.81	17.88	13.98	11.79					3.35
25.	6.80	17.88	13.98	11.87	0.07		0.07	1.16	
30.	6.81	17.89	13.99	11.89					4.07
40.	7.02	18.06	14.11	11.09					2.20
50.	7.05	18.18	14.20	10.66	0.12		1.44	3.56	0.44
60.	6.95	18.26	14.27	10.64					
70.	7.08	18.38	14.35	10.83					
75.	7.29	18.55	14.46	9.14	0.36			10.03	
80.	7.31	18.59	14.49	7.78					

STATION NUMBER: K46-P
TOTAL DEPTH: 200.0 m.
PLACE:
DATE:10-02-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:23:30
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:6

CHARACTER
LONGITUDE:34. 0'
LATITUDE:42.11'
WIND:2
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.87
SD/PH:
SW/PH:0.92
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.77	17.87	13.98	10.20	0.11		0.08	0.87	
5.	6.77	17.87	13.98	10.60					
10.	6.77	17.88	13.99	11.21	0.05		0.05	1.38	
15.	6.71	17.90	14.01	11.73					
20.	6.74	17.94	14.04	11.67					
25.	6.65	17.96	14.06	11.72	0.05		0.35	2.47	
30.	6.61	17.96	14.07	11.83					
40.	6.59	17.99	14.09	11.77	0.08		0.33	2.69	
50.	6.74	18.22	14.26	11.55					
60.	6.83	18.27	14.29	11.11					
65.					0.11		1.61	5.09	
70.	7.14	18.50	14.44	9.89					
75.	7.18	18.56	14.48	8.57					
80.	7.22	18.63	14.53	7.97					
90.	7.30	18.79	14.65	6.82	0.30		3.72	14.27	
100.	7.35	18.94	14.76	5.79					
115.					0.56		6.32	22.73	
125.	7.68	19.64	15.27	1.22					
150.	8.16	20.41	15.82		1.07		4.65	55.50	
165.					1.20		3.42	58.14	
190.					3.78		2.36	98.31	

STATION NUMBER: K-48
TOTAL DEPTH: 2000.0 m.
PLACE:
DATE:25-02-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
CHARACTER
TIME:21:25
LONGITUDE:34.30'
AIR TEMPERATURE:
LATITUDE:42.20'
WAVE STATE:
WIND:
VISIBILITY:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:9.6
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.76
SD/PH:
SW/PH:0.78
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.75	18.21	14.25	12.30	0.05		0.36	2.98	1.48
5.	6.75	18.21	14.25	12.16					
10.	6.76	18.21	14.25	12.19	0.05		0.33	3.13	1.37
15.	6.76	18.21	14.25	12.24					
20.	6.76	18.21	14.25	12.26					2.47
25.	6.76	18.21	14.25	12.17	0.05		0.68	3.20	
30.	6.76	18.21	14.25	12.22					1.92
40.	6.74	18.21	14.25	12.20					1.65
50.	6.73	18.22	14.26	12.04	0.07		0.46	3.27	0.88
60.	7.12	18.59	14.51	10.14					
70.	7.38	19.13	14.91	5.07					
75.	7.49	19.35	15.07	3.18	0.72		6.23	31.26	
80.	7.59	19.52	15.19	2.16					
90.	7.63	19.60	15.25	1.40					
100.	7.67	19.68	15.31	1.06	0.87		7.19	37.83	
125.	7.88	20.02	15.55		1.13		6.95	49.64	
140.					1.21	0.20	5.40	39.69	
150.	8.16	20.45	15.86						
164.					1.32	0.88	1.19	70.33	
188.					4.83	0.96		83.92	
200.	8.56	21.09	16.31						
235.						1.91		106.97	
250.	8.72	21.45	16.57						
282.					4.56	2.55		130.02	
300.	8.79	21.65	16.72						
376.					5.07	3.50		165.48	
400.	8.83	21.87	16.88						
470.					5.54	5.56		199.76	
500.	8.85	22.00	16.98						

STATION NUMBER: K48-F
TOTAL DEPTH: 300.0 m.
PLACE:
DATE:11-02-90
BAROMETRIC PRESSURE:1022
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:12:00
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:34.30'
LATITUDE:42.13'
WIND:3
WIND DIRECTION:NE

OS:
SD/Hg:
SW/Hg:6.6
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.60
SD/PH:
SW/PH:0.60
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.57	17.85	13.98	12.27	0.09		0.16	1.31	3.90
5.	6.57	17.85	13.98	12.48					
10.	6.52	17.87	14.00	12.60	0.08		0.06	1.31	4.16
15.	6.40	17.95	14.08	12.66					
20.	6.38	17.98	14.10	12.24					3.24
24.					0.11		1.27	3.13	
25.	6.37	17.98	14.10	12.27					
30.	6.38	17.98	14.10	12.15					1.37
40.	6.64	18.05	14.14	11.96					1.04
48.					0.07		2.30	3.85	
50.	6.89	18.17	14.20	11.29					0.77
60.	6.96	18.25	14.26	11.07					
70.	7.00	18.30	14.29	10.87					
72.					0.04		1.97	4.87	
75.	7.02	18.33	14.32	10.79					
80.	7.04	18.37	14.35	10.49					
90.	7.15	18.50	14.44	9.47					
97.					0.28		4.38	13.21	
100.	7.36	18.87	14.70	6.30					
125.	7.73	19.76	15.36	1.24	0.92		7.43	32.24	
150.	8.10	20.32	15.76		1.20		5.84	49.15	
200.	8.52	21.01	16.25		4.76		0.22	72.94	
250.	8.70	21.38	16.52		4.68			98.31	

STATION NUMBER: K-52
TOTAL DEPTH: 1800.0 m.
PLACE:
DATE:25-02-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:12:30
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:35.30'
LATITUDE:42.15'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.68
SD/PH:
SW/PH:1.20
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.89	18.13	14.17	11.86	0.02		0.13	2.91	1.37
5.	6.90	18.13	14.17	12.07					
10.	6.77	18.13	14.18	12.13	0.07		0.48	3.13	1.99
15.	6.74	18.15	14.20	12.08					
20.	6.73	18.16	14.21	12.12					1.65
25.	6.73	18.16	14.21	12.08	0.03		0.44	3.27	
30.	6.72	18.18	14.23	12.09					1.70
40.	6.77	18.23	14.26	11.98					1.15
50.	6.76	18.23	14.26	11.97	0.02		0.47	3.63	1.39
60.	6.98	18.38	14.36	11.34					
70.	7.15	18.61	14.52	8.08					
75.	7.21	18.69	14.58	7.66	0.23		3.23	11.27	
80.	7.25	18.74	14.62	6.83					
90.	7.47	19.28	15.02	4.63					
100.	7.61	19.54	15.21	2.22	0.91		7.63	36.06	
125.	8.01	20.20	15.67		0.94		4.65	53.78	
145.					0.96	0.20	1.86	67.97	
150.	8.39	20.76	16.07						
169.					4.78	1.67	1.08	79.20	
193.					3.93	1.52		91.02	
200.	8.66	21.27	16.43						
241.					4.11	2.31		115.84	
250.	8.74	21.51	16.61						
290.					4.91	2.98		136.52	
300.	8.79	21.68	16.74						
386.					3.93	3.90		168.44	
400.	8.83	21.85	16.87						
483.					5.59			195.04	
500.	8.84	21.98	16.96						

STATION NUMBER: K55
TOTAL DEPTH: 374.0 m.
PLACE:
DATE:14-02-90
BAROMETRIC PRESSURE:1003
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:07:00
AIR TEMPERATURE:
WAVE STATE:4
VISIBILITY:5

CHARACTER
LONGITUDE:36. 0'
LATITUDE:41.50'
WIND:5
WIND DIRECTION:ESE

DS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.82
SD/PH:
SW/PH:0.85
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	7.03	17.91	13.99	11.54	0.05		0.30	1.24	1.26
5.	7.04	17.91	13.99	11.61					
10.	7.03	17.91	13.99	11.76	0.05		0.28	1.24	2.10
15.	7.03	17.91	13.99	11.92					
20.	7.03	17.91	13.99	11.89					2.36
25.	7.03	17.91	13.99	12.02	0.11		0.28	1.16	
30.	7.03	17.91	13.99	11.95					2.09
40.	7.04	17.92	14.00	11.84					2.47
50.	6.84	18.15	14.19	11.50	0.09		1.73	3.71	1.26
60.	6.99	18.25	14.26	10.97					
70.	6.90	18.27	14.28	11.52					
75.	7.17	18.40	14.36	11.08	0.07		1.78	5.23	
80.	7.28	18.53	14.45	9.05					
81.					0.32		3.44	15.86	
90.	7.42	18.87	14.70	6.30					
100.	7.53	19.22	14.97	3.76					
102.					0.81		7.08	27.48	
122.					0.96		7.14	35.41	
125.	7.64	19.49	15.16	1.97					
143.					0.69		4.11	57.08	
150.	7.98	20.13	15.62						
163.					3.76		1.28	67.65	
200.	8.51	20.97	16.22						
204.					4.76			87.21	
245.					4.65			109.41	
250.	8.72	21.46	16.58						

STATION NUMBER: K56
TOTAL DEPTH: 1200.0 m.
PLACE:
DATE:13-02-90
BAROMETRIC PRESSURE:1003
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:09:00
AIR TEMPERATURE:
WAVE STATE:4
VISIBILITY:5

CHARACTER
LONGITUDE:36. 0'
LATITUDE:42. 0'
WIND:5
WIND DIRECTION:SE

OS:
SD/Hg:
SW/Hg:1.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.54
SD/PH:
SW/PH:0.54
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.80	17.90	14.00	11.55	0.08		0.20	1.38	2.47
5.	6.80	17.90	14.00	11.53					
10.	6.80	17.90	14.00	11.90	0.08		0.23	1.38	2.31
15.	6.80	17.90	14.00	11.90					
20.	6.80	17.90	14.00	11.97					2.42
25.	6.80	17.90	14.00	11.94	0.07		0.08	1.45	
30.	6.79	17.90	14.00	11.87					2.09
40.	6.74	17.97	14.06	11.83					1.43
50.	6.94	18.21	14.23	10.89	0.11		1.77	3.93	1.04
60.	6.96	18.25	14.26	10.92					
70.	6.99	18.29	14.29	10.73					
75.	7.05	18.33	14.31	10.63	0.11		2.29	5.45	
76.					0.09		2.34	6.34	
80.	7.15	18.43	14.38	10.07					
90.	7.31	18.93	14.76	6.56					
100.	7.48	19.22	14.97	3.14					
114.					1.14		7.58	42.28	
125.	7.95	20.09	15.60						
150.	8.32	20.67	16.00						
153.					4.23		1.30	70.30	
191.					4.63			89.85	
200.	8.61	21.19	16.38						
230.					4.87			71.35	
250.	8.72	21.44	16.56						
300.	8.79	21.66	16.73						
306.					5.11			139.01	
383.					5.63			170.19	
400.	8.83	21.88	16.89						
500.	8.85	22.01	16.99						

STATION NUMBER: K58
TOTAL DEPTH: 1500.0 m.
PLACE:
DATE:14-02-90
BAROMETRIC PRESSURE:1002
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:11:15
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:6

CHARACTER
LONGITUDE:38. 0'
LATITUDE:42.10'
WIND:4
WIND DIRECTION:SE

OS:
SD/Hg:
SW/Hg:2.8
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.78
SD/PH:
SW/PH:0.69
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.83	18.00	14.08	11.66	0.07		0.14	1.38	2.36
5.	6.81	18.00	14.08	11.63					
10.	6.82	18.03	14.10	11.79	0.07		0.09	1.38	3.24
15.	6.93	18.15	14.19	11.74					
20.	6.93	18.16	14.19	11.58					1.37
25.	6.93	18.16	14.19	11.72	0.04		0.30	2.33	
30.	6.93	18.17	14.20	11.66					
40.	6.93	18.26	14.27	11.46					0.55
50.	6.95	18.32	14.31	11.06	0.18		0.80	3.13	0.33
60.	7.18	18.49	14.43	10.06					
70.	7.37	19.03	14.83	4.87					
75.	7.48	19.26	15.00	3.59	0.64		6.19	22.39	
80.	7.64	19.56	15.22	1.94					
90.	7.87	19.98	15.51						
100.	8.06	20.25	15.71		1.18		5.80	49.05	
125.	8.27	20.58	15.94						
150.	8.48	20.93	16.19		5.28		0.19	70.92	
200.	8.68	21.34	16.49		4.72			94.56	
250.	8.75	21.56	16.65		4.59			111.70	
300.	8.80	21.71	16.76		4.83			132.98	
400.	8.83	21.89	16.90		5.24			161.35	
500.	8.85	22.01	16.99		6.10			188.53	

STATION NUMBER: K59
TOTAL DEPTH: 1952.0 m.
PLACE:
DATE:14-02-90
BAROMETRIC PRESSURE:1002
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:13:10
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:6

CHARACTER
LONGITUDE:36. 0'
LATITUDE:42.20'
WIND:4
WIND DIRECTION:SE

OS:
SD/Hg:
SW/Hg:14.1
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.30
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.95	18.14	14.18	11.39	0.05		0.17	1.96	1.48
5.	6.95	18.14	14.18	11.51					
9.					0.06		0.16	1.96	
10.	6.94	18.14	14.18	11.71					1.76
15.	6.93	18.14	14.18	11.76					
20.	6.92	18.16	14.19	11.85					1.43
24.					0.08		0.50	2.33	
25.	6.92	18.19	14.22	11.66					
30.	6.94	18.21	14.23	11.69					0.99
40.	6.92	18.23	14.25	11.45					0.77
48.					0.05		0.64	3.49	
50.	6.98	18.30	14.30	11.35					0.64
53.					1.18		7.01	44.33	
60.	7.09	18.41	14.37	10.29					
70.	7.44	19.28	15.02	4.42	0.90		3.94	56.15	
75.	7.57	19.50	15.18	2.35					
80.	7.69	19.72	15.33	.41					
88.					2.59		0.98	65.01	
90.	7.85	19.96	15.50						
100.	8.01	20.18	15.66						
125.	8.35	20.72	16.04						
140.					6.18		0.21	73.88	
150.	8.56	21.08	16.30						
164.					5.04		0.45	88.65	
188.					4.59			99.29	
200.	8.69	21.38	16.51						
234.					4.63			110.52	
250.	8.77	21.59	16.67						
282.					5.00			135.93	
300.	8.80	21.72	16.77						
376.					5.31			163.12	
400.	8.84	21.90	16.90						
470.					5.90			192.08	
500.	8.85	22.02	17.00						

STATION NUMBER:K-61
TOTAL DEPTH: 500.0 m.
PLACE:
DATE:17-02-90
BAROMETRIC PRESSURE:1020
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:15:40
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:36.30'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:NE

OS:
SD/Hg:
SW/Hg:>0.3
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.86
SD/PH:
SW/PH:0.70
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	7.42	17.85	13.90	11.99	0.07		0.06	1.31	3.19
5.	7.41	17.85	13.90	11.89					
10.	7.37	17.85	13.91	12.08	0.10		0.13	1.60	3.51
15.	7.33	17.85	13.91	12.22					
20.	7.30	17.86	13.92	12.17					3.74
25.	7.29	17.86	13.92	12.15	0.07		0.41	1.74	
30.	7.25	17.86	13.93	12.03					4.40
40.	7.25	17.87	13.93	11.97					3.46
50.	7.28	18.03	14.06	11.37	0.08		0.34	2.11	2.14
60.	7.18	18.14	14.15	11.21					
70.	7.17	18.34	14.31	10.82					
75.	7.18	18.37	14.34	9.98	0.13		1.78	4.36	
80.	7.24	18.43	14.37	9.75					
90.	7.30	18.54	14.46	8.59					
100.	7.44	18.74	14.59	7.55	0.45		4.77	10.64	
125.	7.54	19.30	15.03	3.17	0.78		6.89	26.00	
150.	7.73	19.69	15.31	.97	0.56		3.16	34.28	
200.	8.37	20.73	16.05		1.66		3.75	60.28	
250.	8.63	21.25	16.43		4.58			82.15	
300.	8.74	21.54	16.63		4.65			144.80	
400.	8.83	21.85	16.86					158.39	
500.	8.85	21.98	16.97					187.35	

STATION NUMBER: K-62
TOTAL DEPTH: 900.0 m.
PLACE:
DATE:14-02-90
BAROMETRIC PRESSURE:1009
CLOUD:c/r
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:20:50
AIR TEMPERATURE:
WAVE STATE:5
VISIBILITY:5

CHARACTER
LONGITUDE:36.30'
LATITUDE:41.45'
WIND:5
WIND DIRECTION:NW

OS:
SD/Hg:
SW/Hg:11.6
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.74
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.59	17.83	13.96	11.61	0.02		0.05	1.24	3.46
5.	6.59	17.83	13.96	11.76					
10.	6.59	17.83	13.96	11.86	0.09		0.23	1.38	3.13
15.	6.59	17.83	13.96	11.96					
20.	6.59	17.83	13.96	12.05					3.35
25.	6.59	17.83	13.97	12.00	0.03		0.11	1.45	
30.	6.60	17.87	13.99	12.02					3.57
40.	6.95	18.23	14.24	10.65					2.09
50.	6.99	18.27	14.28	10.80	0.03		1.06	4.00	0.80
60.	6.85	18.28	14.29	11.24					
70.	6.84	18.30	14.31	11.11					
75.	6.85	18.33	14.33	11.14	0.03		0.66	3.85	
80.	7.02	18.45	14.41	10.82					
90.	7.46	18.95	14.76	5.38					
100.	7.45	19.27	15.01	2.94	0.67		4.73	26.00	
125.	7.92	20.05	15.57						
150.	8.30	20.63	15.98		0.56		2.33	60.28	
200.	8.60	21.18	16.37		4.81		0.05	86.88	
250.	8.73	21.49	16.60		3.69		0.06	106.38	
300.	8.78	21.66	16.72		4.10			128.25	
400.	8.83	21.86	16.87		4.83			161.35	
500.	8.85	22.00	16.98		6.16			192.67	

STATION NUMBER: K-63
TOTAL DEPTH: 778.0 m.
PLACE:
DATE:14-02-90
BAROMETRIC PRESSURE:1007
CLOUD:r
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:18:20
AIR TEMPERATURE:
WAVE STATE:5
VISIBILITY:6

CHARACTER
LONGITUDE:36.30'
LATITUDE:42. 0'
WIND:4
WIND DIRECTION:NNV

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.79
SD/PH:
SW/PH:0.67
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.75	17.89	14.00	11.74				1.31	2.86

STATION NUMBER: K-65
TOTAL DEPTH: 704.0 m.
PLACE:
DATE:14-02-90
BAROMETRIC PRESSURE:1006
CLOUD:r
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:16:45
AIR TEMPERATURE:
WAVE STATE:5
VISIBILITY:6

CHARACTER
LONGITUDE:36.30'
LATITUDE:42.10'
WIND:4
WIND DIRECTION:NNV

OS:
SD/Hg:
SW/Hg:12.1
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.80
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.92	17.99	14.06	11.62	0.02		0.33	1.45	2.35

STATION NUMBER: K71
TOTAL DEPTH: 1393.0 m.
PLACE:
DATE:19-02-90
BAROMETRIC PRESSURE:1026
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:04:35
AIR TEMPERATURE:
WAVE STATE:4
VISIBILITY:5

CHARACTER
LONGITUDE:37.30'
LATITUDE:41.15'
WIND:4
WIND DIRECTION:N

OS:
SD/Hg:
SW/Hg:18.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.33
SD/PH:
SW/PH:0.76
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	7.08	17.91	13.98	9.85	0.33		0.11	1.45	

STATION NUMBER: K-66
TOTAL DEPTH: 1000.0 m.
PLACE:
DATE:18-02-90
BAROMETRIC PRESSURE:1021
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:04:00
AIR TEMPERATURE:
WAVE STATE:4
VISIBILITY:5

CHARACTER
LONGITUDE:37. 0'
LATITUDE:42. 0'
WIND:5
WIND DIRECTION:NE

OS:
SD/Hg:
SW/Hg:8.9
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.78
SD/PH:
SW/PH:0.50
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.92	18.18	14.21	11.45	0.02		0.05	2.40	1.26
5.	6.92	18.18	14.21	11.14					
9.					0.02		0.37	2.84	
10.	6.93	18.18	14.21	11.33					1.17
15.	6.93	18.18	14.21	11.76					
20.	6.93	18.18	14.21	11.64					1.37
23.					0.05		0.32	2.91	
25.	6.93	18.18	14.21	11.72					
30.	6.94	18.20	14.22	11.70					1.43
40.	6.93	18.30	14.30	11.24					1.37
46.					0.02		0.43	3.27	
50.	6.97	18.33	14.32	11.05					0.81
60.	7.31	18.82	14.67	7.38					
70.	7.50	19.31	15.04	3.37	0.65		6.17	23.12	
75.	7.67	19.60	15.25	1.67					
80.	7.85	19.90	15.46	.54					
90.	8.00	20.16	15.65						
93.					0.63		1.99	52.60	
100.	8.14	20.37	15.79						
117.					1.94		1.59	65.60	
125.	8.36	20.71	16.03						
150.	8.56	21.06	16.28		3.06	0.20	1.21	69.74	
175.					6.07	0.20		78.01	
200.	8.70	21.39	16.52		3.54	0.67			
250.	8.77	21.60	16.68		4.28	1.00		100.47	
300.	8.80	21.74	16.78		4.02	1.50		103.47	
400.	8.84	21.92	16.92		4.46	2.67		141.84	
500.	8.85	22.02	17.00		5.31	3.67		167.26	

STATION NUMBER: K-67
TOTAL DEPTH: 380.0 m.
PLACE:
DATE:18-02-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:00:55
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:37. 0'
LATITUDE:41.45'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.00
SD/PH:
SW/PH:0.40
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.79	18.01	14.09	11.72	0.02		0.11	1.74	2.80
5.	6.78	18.01	14.09	11.77					
10.	6.78	18.01	14.09	12.08	0.07		0.14	1.82	3.21
15.	6.77	18.01	14.09	12.05					
20.	6.76	18.01	14.09	12.08					3.35
25.	6.76	18.01	14.09	11.97	0.02		0.09	2.04	
30.	6.81	18.05	14.12	11.92					3.19
40.	6.96	18.28	14.28	11.24					1.04
50.	6.95	18.30	14.30	11.31	0.08		1.47	4.36	0.55
60.	7.13	18.41	14.37	10.55					
70.	7.26	18.74	14.61	7.82					
75.	7.30	18.92	14.75	6.25	0.30		3.05	15.56	
80.	7.39	19.11	14.89	4.59					
90.	7.61	19.50	15.18	2.13					
100.	7.76	19.74	15.35	.98	1.04		7.54	36.64	
125.	8.14	20.37	15.79		0.63		3.33	53.78	
150.	8.39	20.77	16.07		2.24	0.20	1.36	66.19	
175.					4.30	0.42		79.20	
200.	8.63	21.23	16.41		2.88	2.42		87.47	
250.	8.74	21.52	16.62			1.50		107.57	
300.	8.79	21.68	16.74		4.34	2.42		132.98	

STATION NUMBER: K68
TOTAL DEPTH: 229.0 m.
PLACE:
DATE:17-02-90
BAROMETRIC PRESSURE:1021
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:21:45
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:37. 0'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:NE

OS:
SD/Hg:
SW/Hg:5.0
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.50
SD/PH:
SW/PH:0.58
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	7.00	17.90	13.98	11.57	0.07		0.31	1.31	2.20
5.	7.00	17.90	13.98	11.76					
9.					0.09		0.08	1.38	
10.	6.84	17.90	14.00	11.93					2.14
15.	6.77	17.90	14.00	11.89					
20.	6.86	17.92	14.01	11.99					2.69
23.					0.10		0.27	1.38	
25.	6.95	17.99	14.06	11.55					
30.	7.01	18.10	14.14	11.25					1.26
40.	6.95	18.18	14.21	11.05					0.44
46.					0.12		1.48	3.64	
50.	7.03	18.20	14.22	10.83					0.51
60.	7.16	18.32	14.29	10.23					
70.	7.15	18.34	14.31	9.88	0.11		1.59	6.69	
75.	7.17	18.39	14.35	9.68					
80.	7.23	18.47	14.40	9.09					
90.	7.29	18.55	14.46	8.40					
94.					0.13		1.93	6.50	
100.	7.40	18.82	14.67	6.70					
117.					0.35		4.02	14.18	
125.	7.53	19.28	15.01	3.18					
140.					0.75	0.20	6.44	27.78	
150.	7.77	19.79	15.38	.36					
164.					1.04	0.20	7.11	36.64	
188.					1.14	0.25	5.59	52.60	

STATION NUMBER: K70
TOTAL DEPTH: 1800.0 m.
PLACE:
DATE:18-02-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:12:15
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:5

CHARACTER
LONGITUDE:37.30'
LATITUDE:41.30'
WIND:4
WIND DIRECTION:N

OS:
SD/Hg:
SW/Hg:10.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.61
SD/PH:
SW/PH:0.70
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.74	17.92	14.02	11.47	0.09		0.06	1.38	2.58
5.	6.75	17.92	14.02	11.60					
10.	6.74	17.92	14.02	11.64	0.02		0.11	1.38	
15.	6.74	17.92	14.02	11.85					
20.	6.73	17.92	14.02	11.86					
25.	6.72	17.94	14.04	11.80	0.07		0.10	1.38	
30.	6.73	17.96	14.06	11.74					
40.	6.95	18.21	14.23	11.11					
50.	6.96	18.26	14.27	10.79	0.02		0.91	4.65	
60.	6.97	18.29	14.29	10.63					
70.	6.94	18.38	14.36	10.49					
75.	7.32	18.77	14.63	8.06	0.07		1.00	4.36	
80.	7.39	19.11	14.89	4.75					
90.	7.57	19.48	15.16	2.14					
100.	7.70	19.67	15.29	.64	0.86		6.84	31.91	
102.					1.21		5.63	50.83	
122.					0.28		1.36	48.46	
125.	8.16	20.38	15.80						
143.					1.08		3.20	60.28	
150.	8.37	20.72	16.04						
163.					1.85			66.78	
200.	8.62	21.20	16.38						
204.					2.89			109.93	
245.					4.47			100.47	
250.	8.71	21.45	16.57						
300.	8.78	21.66	16.72						
308.					4.74			133.57	
400.	8.83	21.87	16.88						
410.					5.29			161.94	

STATION NUMBER: K73
TOTAL DEPTH: 1900.0 m.
PLACE:
DATE:23-02-90
BAROMETRIC PRESSURE:1033.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:09:45
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41.30'
WIND:3
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:0.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.60
SD/PH:
SW/PH:1.66
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	SI	CHL-a
0.	6.74	18.09	14.16	12.70	0.03		0.05	1.67	
5.	6.78	18.10	14.16	11.73					
9.					0.07		0.06	1.96	
10.	6.80	18.10	14.16	11.40					
15.	6.80	18.10	14.16	11.44					
20.	6.86	18.15	14.19	11.65					
24.					0.06		0.14	2.40	
25.	6.87	18.17	14.20	11.54					
30.	6.88	18.18	14.21	11.53					
40.	6.90	18.20	14.23	11.33					
48.					0.08		1.10	3.63	
50.	6.90	18.28	14.29	11.02					
60.	6.89	18.35	14.35	10.80					
70.	7.34	18.99	14.80	5.55					
72.					0.53		5.95	19.78	
75.	7.42	19.23	14.98	3.67					
80.	7.57	19.49	15.17	1.88					
90.	7.83	19.89	15.46						
96.					1.15		7.40	47.87	
100.	7.95	20.08	15.59						
120.					1.02		5.02	55.56	
123.					0.79		2.42	65.01	
125.	8.21	20.46	15.86						
143.					5.32		0.07	80.97	
150.	8.49	20.94	16.20						
164.					3.08			92.20	
200.	8.68	21.35	16.49						
205.					4.45			112.88	
246.					3.04			132.39	
250.	8.76	21.57	16.66						
300.	8.80	21.72	16.76						
328.					4.40			176.71	
400.	8.84	21.90	16.90						
410.					5.16			196.76	
500.	8.85	22.02	16.99						

STATION NUMBER: K74
TOTAL DEPTH: 1206.0 m.
PLACE:
DATE:23-02-90
BAROMETRIC PRESSURE:1035
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:06:50
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41.15'
WIND:3
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:9.8
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.34
SD/PH:
SW/PH:1.39
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	6.64	18.01	14.10	10.09	0.05		0.60	1.67	
5.	6.63	18.00	14.09	11.00					
9.					0.09		0.36	1.82	
10.	6.64	18.00	14.09	11.31					
15.	6.64	18.00	14.09	11.45					
20.	6.65	18.00	14.09	11.48					
22.					0.02		0.22	1.82	
25.	6.66	18.00	14.09	11.40					
30.	6.67	18.01	14.10	11.35					
40.	6.68	18.01	14.10	11.38					
45.					0.08		0.53	1.96	
50.	6.71	18.03	14.11	11.30					
60.	6.88	18.19	14.22	11.12					
68.					0.13		1.59	4.22	
70.	6.88	18.27	14.28	10.81					
75.	6.94	18.33	14.32	10.78					
80.	7.01	18.42	14.39	9.81					
90.	7.40	18.84	14.68	7.00	0.62		5.98	21.28	
100.	7.55	19.19	14.94	3.69					
113.					0.47		2.36	37.83	
125.	7.85	19.91	15.47						
136.					0.68		2.28	54.96	
143.					0.85		3.54	49.64	
150.	8.21	20.46	15.85						
164.					0.83		1.42	61.47	
200.	8.61	21.22	16.40						
205.					5.13			89.24	
245.					3.66			114.66	
250.	8.74	21.52	16.62						
300.	8.80	21.70	16.75						
328.					3.15			154.25	
400.	8.84	21.89	16.90						
410.					5.64			189.72	
500.	8.85	22.02	17.00						

STATION NUMBER: K75
TOTAL DEPTH: 281.0 m.
PLACE:
DATE:23-02-90
BAROMETRIC PRESSURE:1034.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:05:15
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:5

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41. 5'
WIND:3
WIND DIRECTION:NW

OS:
SD/Hg:
SW/Hg:7.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.56
SD/PH:
SW/PH:0.74
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	7.11	17.93	13.99	11.48	0.03		0.18	1.45	
5.	7.11	17.93	13.99	11.61					
10.	7.11	17.93	13.99	11.67	0.05		1.43	1.60	
15.	7.10	17.93	13.99	11.75					
20.	7.09	17.93	14.00	11.72					
24.					0.08		0.34	1.53	
25.	7.05	17.93	14.00	11.74					
30.	7.04	17.93	14.00	11.65					
40.	7.07	17.96	14.02	11.61					
48.					0.12		0.98	2.40	
50.	7.16	18.06	14.09	10.84					
60.	7.02	18.12	14.15	10.91					
70.	7.04	18.18	14.20	10.62					
72.					0.09		0.50	2.98	
75.	7.03	18.19	14.20	10.74					
80.	7.04	18.21	14.22	10.81					
90.	7.12	18.29	14.28	10.60					
96.					0.07		1.47	8.27	
100.	7.21	18.43	14.38	9.13					
120.					0.26		3.82	18.91	
125.	7.78	19.70	15.31	2.69					
145.					0.60		1.87	53.19	
150.	8.18	20.42	15.83						
169.					1.96		1.77	68.56	
193.					3.75		0.12	86.29	

STATION NUMBER: K-79
TOTAL DEPTH: 1950.0 m.
PLACE:
DATE:22-02-90
BAROMETRIC PRESSURE:1036
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:13:30
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:5

CHARACTER
LONGITUDE:39. 0'
LATITUDE:41.30'
WIND:3
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:14.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.35
SD/PH:
SW/PH:0.59
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	8.09	17.92	13.88	12.32	0.03		0.25	1.96	0.82
5.	8.04	17.92	13.89	11.53					
9.					0.06		0.78	1.96	
10.	8.02	17.92	13.89	11.47					1.25
15.	8.02	17.92	13.89	11.41					
20.	7.99	17.92	13.90	11.49					1.48
21.					0.07		0.41	1.96	
25.	7.98	17.92	13.90	11.48					
30.	7.95	17.93	13.91	11.42					1.32
40.	7.20	17.93	13.98	11.36					0.88
43.					0.10		1.17	1.74	
50.	7.24	18.01	14.05	11.14					0.37
60.	7.05	18.13	14.16	11.16					
65.					0.11		0.97	3.05	
70.	7.39	18.27	14.24	10.52					
75.	7.26	18.31	14.28	9.94					
80.	7.33	18.36	14.31	9.81					
87.					0.38		4.15	13.00	
90.	7.33	18.74	14.60	7.63					
100.	7.51	19.04	14.82	4.95					
108.					1.02		7.24	37.23	
125.	7.95	20.05	15.57						
144.					1.21		3.86	59.69	
150.	8.27	20.57	15.94						
169.					2.26		0.14	73.88	
193.					4.25			87.47	
200.	8.60	21.18	16.37						
241.					4.25			116.43	
250.	8.73	21.49	16.60						
290.					3.32			132.98	
300.	8.78	21.65	16.72						
386.					4.40			166.08	
400.	8.83	21.87	16.88						
483.					5.90			197.40	
500.	8.85	22.01	16.99						

STATION NUMBER: K-84
TOTAL DEPTH: 1850.0 m.
PLACE:
DATE:21-02-90
BAROMETRIC PRESSURE:1033
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:22:40
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:40. 0'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:1.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.85
SD/PH:
SW/PH:0.47
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	8.04	17.96	13.92	11.07	0.02		0.18	1.82	1.21
5.	8.03	17.96	13.92	11.07					
10.	8.02	17.96	13.93	11.32	0.07		0.52	1.82	0.88
15.	7.94	17.96	13.93	11.43					
20.	7.91	17.96	13.94	11.56					1.37
25.	7.57	17.94	13.96	11.60	0.02		0.76	1.74	
30.	7.26	17.94	13.98	11.76					0.99
40.	7.07	18.04	14.09	11.69					0.49
50.	7.13	18.21	14.21	11.06	0.05		0.97	2.91	0.37
60.	7.01	18.27	14.27	10.84					
70.	6.86	18.31	14.31	11.34					
75.	7.28	18.41	14.36	11.03	0.02		1.27	4.14	
80.	7.40	18.57	14.47	8.55					
90.	7.38	18.90	14.73	5.68					
100.	7.51	19.27	15.01	3.41	0.43		4.25	25.41	
125.	8.00	20.13	15.62		1.17	0.20	6.75	47.28	
150.	8.34	20.70	16.03		1.11	0.80	2.17	62.06	
175.					5.26	0.88	0.10	77.42	
200.	8.63	21.24	16.42		4.98	1.44	32.00	88.65	
250.	8.73	21.49	16.60		4.80	2.15		112.88	
300.	8.79	21.68	16.74		4.51	2.78		134.16	
400.	8.83	21.88	16.89		4.73	4.05		167.85	
500.	8.85	22.01	16.98		5.99	5.48		195.63	

STATION NUMBER: K85-P
TOTAL DEPTH: 1400.0 m.
PLACE:
DATE:21-02-90
BAROMETRIC PRESSURE:1033
CLOUD:c/r
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:09:20
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:5

CHARACTER
LONGITUDE:41. 0'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:SW

OS:
SD/Hg:
SW/Hg:3.3
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.43
SD/PH:
SW/PH:0.89
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	8.03	17.95	13.91	10.22	0.03		0.27	2.11	
5.	8.01	17.94	13.91	11.02					
10.	8.01	17.94	13.91	11.21	0.05		0.44	2.18	
15.	8.02	17.94	13.91	11.21					
20.	8.02	17.94	13.91	11.26					
25.	8.03	17.95	13.91	11.22					
30.	8.18	18.00	13.93	11.05					
35.					0.04		0.30	2.33	
40.	7.87	18.01	13.98	10.78					
50.	8.00	18.10	14.04	10.67	0.09		1.17	2.47	
60.	7.95	18.14	14.08	10.41					
70.	7.83	18.26	14.18	10.12					
75.	7.89	18.35	14.25	9.54	0.09		1.20	6.18	
80.	7.82	18.40	14.29	8.94					
90.	7.57	18.69	14.54	7.45					
100.	7.53	18.90	14.71	5.45	0.65		5.95	25.41	
125.	7.77	19.76	15.36	.89	1.07		5.59	49.64	
150.	8.14	20.39	15.81		2.01	0.25	2.16	67.38	
175.					3.64	0.33	0.06	74.47	
200.	8.60	21.18	16.37		5.13	1.17		92.20	
250.	8.73	21.49	16.60		4.84	2.08		124.11	
300.	8.78	21.66	16.72		3.50	2.67		141.84	
400.	8.83	21.86	16.87		5.13	3.42		173.76	
500.	8.85	21.99	16.97		5.42	6.00		195.63	

ÇİZELGE 3: NİSAN, 1990 DÖNEMİNDE DOĞU KARADENİZ'DE ÖLÇÜLEN FİZİKSEL VE BİYOKİMYASAL PARAMETRELER

STATION NUMBER: K-46(M20R00)
TOTAL DEPTH: 700.0 m.
PLACE:
DATE:21-04-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:19:12
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:34. 0'
LATITUDE:42.20'
WIND:3
WIND DIRECTION:NW

OS:
SD/Hg:
SW/Hg:9.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.48
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.08	18.10	13.78	11.71	0.03		0.06	3.56	1.61
5.	10.06	18.10	13.78	11.85					
10.	9.62	18.11	13.85	11.93	0.03		0.28	3.56	0.41
15.	7.70	18.16	14.11	12.57					
20.	7.51	18.16	14.14	12.03	0.17		0.65	4.00	0.62
25.	7.33	18.17	14.16	11.97					
30.	7.32	18.20	14.19	11.80	0.09		1.69	4.19	0.73
40.	7.22	18.33	14.30	11.03					
50.	7.26	18.60	14.50	9.11	0.15		2.43	9.25	0.30
60.	7.36	18.88	14.71	6.63					
70.	7.39	18.98	14.79	5.34					
75.	7.42	19.09	14.87	4.87	0.34		4.49	19.75	
80.	7.46	19.18	14.94	4.16					
90.	7.50	19.30	15.03	3.47					
100.	7.56	19.43	15.12	2.58	0.58		6.49	28.38	
125.	7.79	19.94	15.50	0.92					
130.					0.48	-11	1.98	40.39	
140.					0.68	-11	4.56	46.40	
150.	8.23	20.58	15.95		0.70	-11	2.82	58.40	
175.					2.21	-11	1.84	68.78	
200.	8.61	21.22	16.40		3.23	0.99	0.11	87.33	
250.	8.74	21.52	16.62		3.66	1.85		109.71	
300.	8.79	21.69	16.74		3.93	2.61		129.91	
400.	8.84	21.90	16.90		4.30	3.72		151.74	
500.	8.85	22.03	17.00		4.95	5.16		185.04	

STATION NUMBER: K-47(M30R00)
TOTAL DEPTH: 2200.0 m.
PLACE:
DATE:21-04-90
BAROMETRIC PRESSURE:1023.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:21:27
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:34. 0'
LATITUDE:42.30'
WIND:3
WIND DIRECTION:NW

OS:
SD/Hg:
SW/Hg:0.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.56
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.34	18.06	13.72	11.21	0.03		0.07	3.25	
5.	10.31	18.07	13.73	11.39					
10.	10.00	18.08	13.78	11.56	0.03		0.07	3.19	
15.	9.64	18.10	13.84	11.80					
20.	8.06	18.13	14.05	12.25	0.04		0.41	3.69	
25.	7.63	18.15	14.11	12.00					
30.	7.50	18.15	14.13	11.69	0.03		0.51	4.00	
40.	7.32	18.22	14.20	11.46					
50.	7.25	18.43	14.37	10.46	0.09		2.14	5.75	
60.	7.27	18.65	14.54	8.38					
70.	7.35	18.89	14.73	5.94					
75.	7.40	19.06	14.85	5.31	0.35		3.44	17.50	
80.	7.44	19.18	14.94	4.26					
90.	7.53	19.40	15.10	2.65					
100.	7.66	19.65	15.29	1.74	0.60		5.12	33.30	
110.					0.68		4.54	38.21	
125.	8.12	20.42	15.83		0.94		5.79	46.94	
150.	8.42	20.85	16.13		2.27		0.96	68.78	
175.					3.11		0.09	84.06	
200.	8.65	21.31	16.47		3.31			93.88	
250.	8.75	21.56	16.65		3.80			109.17	
300.	8.80	21.71	16.76		4.21			128.27	
400.	8.84	21.91	16.91		4.74			161.57	
500.	8.85	22.03	17.00		5.25			190.50	
600.	8.85	22.11	17.07						
700.	8.85	22.18	17.12						
800.	8.85	22.23	17.15						

STATION NUMBER: K-48(M20R30)
TOTAL DEPTH: 2000.0 m.
PLACE:
DATE:21-04-90
BAROMETRIC PRESSURE:1022
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:13.10
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:34.30'
LATITUDE:42.20'
WIND:4
WIND DIRECTION:NW

OS:
SD/Hg:
SW/Hg:0.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.56
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.49	18.07	13.70	11.51	0.04		0.37	2.94	
5.	10.49	18.07	13.70	11.54					
9.					0.02		0.10	3.31	
10.	10.45	18.07	13.71	11.63					
15.	10.40	18.07	13.72	11.85					
18.					0.06		2.49	3.38	
20.	10.27	18.09	13.75	11.84					
25.	10.00	18.12	13.81	11.71					
27.					0.02		0.54	3.19	
30.	8.13	18.21	14.11	12.19					
40.	7.53	18.26	14.21	11.97					
45.					0.07		0.65	4.56	
50.	7.24	18.33	14.30	11.99					
60.	7.20	18.61	14.52	10.03					
68.					0.23		3.12	15.44	
70.	7.38	19.01	14.82	5.79					
75.	7.44	19.16	14.92	4.64					
80.	7.50	19.34	15.06	3.79					
82.					0.35		2.86	25.66	
90.	7.67	19.69	15.31	1.05					
91.					0.46		3.93	36.03	
96.					0.58		4.00	43.12	
100.	7.85	19.98	15.52						
115.					0.40		2.04	56.22	
125.	8.26	20.60	15.96						
134.					2.05		1.14	67.68	
150.	8.45	20.90	16.17						
153.					2.79		0.12	80.24	
192.					2.99			119.54	
200.	8.68	21.37	16.51						
230.					3.07			147.92	
250.	8.76	21.59	16.67						
300.	8.81	21.74	16.79						
306.					3.23			172.48	
383.					4.52			181.76	
400.	8.84	21.91	16.91						
500.	8.85	22.03	17.00						

STATION NUMBER: K-49(M12S00)
TOTAL DEPTH: 210.0 m.
PLACE:
DATE:21-04-90
BAROMETRIC PRESSURE:1018.5
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:04:45
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:35. 0'
LATITUDE:42.12'
WIND:4
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:8.6
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.62
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.52	18.04	13.81	11.48	0.03		0.10	3.56	
5.	9.51	18.04	13.81	11.50					
10.	9.48	18.04	13.81	11.66	0.03		0.17	3.56	
15.	9.42	18.04	13.82	11.78					
20.	9.29	18.05	13.85	11.77	0.03		0.17	3.63	
25.	8.95	18.07	13.90	11.81					
30.	8.27	18.09	14.00	11.81	0.03		0.21	3.13	
40.	7.40	18.14	14.13	11.97					
50.	7.22	18.25	14.23	11.45	0.02		0.35	4.25	
60.	7.00	18.32	14.31	11.56					
70.	7.09	18.52	14.46	9.39					
75.	7.22	18.74	14.62	8.19	0.03		1.06	5.94	
80.	7.33	18.93	14.75	6.28					
90.	7.48	19.33	15.06	3.23					
100.	7.64	19.62	15.27	1.93	0.67		7.32	27.29	
125.	8.07	20.38	15.81						
150.	8.39	20.79	16.10		0.77		1.68	61.13	
200.	8.66	21.32	16.47						

STATION NUMBER: EX-1(M13R45)
SEASON:
TOTAL DEPTH: 225.0 m.
STATION TYPE:
PLACE:
CHARACTER
DATE:21-04-90
TIME:06:40
LONGITUDE:34.45'
BAROMETRIC PRESSURE:1019
AIR TEMPERATURE:
LATITUDE:42.13'
CLOUD:c
WAVE STATE:2
WIND:3
SECCHI DISK DEPTH:
VISIBILITY:
WIND DIRECTION:NW

OS:
TR:
TSS:1.11
SD/Hg:
SD/Cd:
SD/PH:
SW/Hg:-11
SW/Cd:
SW/PH:
SM/Hg:
SM/Cd:
FC/0m.:
BOD-5:
COD:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.03	18.09	13.78	11.32	0.02		0.14	3.38	
5.	10.03	18.09	13.78	11.49					
10.	10.02	18.09	13.78	11.54	0.02		0.13	3.38	
15.	10.01	18.09	13.78	11.57					
20.	9.94	18.09	13.79	11.61	0.03		0.14	3.44	
25.	7.89	18.15	14.09	12.30					
30.	7.42	18.14	14.13	12.21	0.02		0.21	3.56	
40.	7.21	18.18	14.18	11.64					
50.	7.17	18.29	14.27	10.87	0.03		1.77	4.19	
60.	7.22	18.60	14.51	8.89					
70.	7.37	18.98	14.79	5.69					
75.	7.44	19.18	14.94	4.73	0.20		2.98	19.69	
80.	7.54	19.42	15.11	2.98					
90.	7.66	19.66	15.29	1.88					
100.	7.78	19.86	15.43		0.67		5.65	37.66	
125.	8.11	20.39	15.82		0.53		2.30	51.86	
150.	8.40	20.83	16.12		1.26		0.74	65.50	
175.					2.21		0.04	80.78	
200.	8.65	21.30	16.46		4.47			93.34	

STATION NUMBER: K-50(M20S00)
TOTAL DEPTH: 2100.0 m.
PLACE:
DATE:21-04-90
BAROMETRIC PRESSURE:1017.5
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:02:47
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:35. 0'
LATITUDE:42.20'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:5.8
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.87
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.72	18.03	13.77	11.48	0.03		0.09	3.25	
5.	9.72	18.03	13.77	11.58					
10.	9.72	18.02	13.77	11.65	0.03		0.06	3.31	
15.	9.72	18.02	13.77	11.61					
20.	9.67	18.03	13.78	11.71	0.02		0.09	3.31	
25.	8.97	18.06	13.89	11.86					
30.	8.18	18.08	14.00	11.90	0.02		1.04	3.56	
40.	7.71	18.12	14.08	11.74					
50.	7.34	18.20	14.19	11.54	0.03		4.14	4.00	
60.	7.13	18.33	14.30	10.73					
70.	7.14	18.55	14.48	9.14					
75.	7.21	18.69	14.58	7.90	0.28		4.65	10.69	
80.	7.25	18.80	14.66	7.37					
90.	7.47	19.26	15.00	4.51					
100.	7.63	19.62	15.27	2.10	0.47		2.04	22.38	
110.					0.49		2.67	40.39	
125.	8.02	20.28	15.74		0.67		0.28	46.90	
150.	8.39	20.81	16.11		1.30		0.07	67.14	
175.					2.55			81.88	
200.	8.67	21.34	16.49		3.68			95.52	
250.	8.76	21.58	16.67		3.95			115.17	
300.	8.81	21.74	16.78		4.63			133.73	
400.	8.84	21.93	16.93		4.82			163.75	
500.	8.85	22.04	17.01		5.22			189.95	

STATION NUMBER: K-51(M30S00)
TOTAL DEPTH: 2020.0 m.
PLACE:
DATE:21-04-90
BAROMETRIC PRESSURE:1017
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:00:44
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:35. 0'
LATITUDE:42.30'
WIND:1
WIND DIRECTION:NNE

OS:
SD/Hg:
SW/Hg:0.3
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.34
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.43	18.12	13.75	11.39	0.05		0.12	3.44	
5.	10.43	18.12	13.75	11.56					
10.	10.40	18.12	13.76	11.50	0.04		0.17	3.56	
15.	10.32	18.12	13.77	11.43					
20.	10.26	18.12	13.77	11.55	0.04		0.10	3.63	
25.	10.11	18.13	13.80	11.60					
30.	7.83	18.17	14.11	12.13	0.03		0.24	3.88	
40.	7.52	18.20	14.16	11.81					
50.	7.32	18.28	14.25	11.49	0.03		1.79	5.31	
60.	7.21	18.41	14.36	10.84					
70.	7.31	18.76	14.62	7.72					
75.	7.34	18.92	14.75	6.16	0.25		3.74	17.69	
80.	7.40	19.11	14.89	4.90					
90.	7.55	19.42	15.12	2.97					
100.	7.72	19.76	15.37	0.86	0.40	0.06	7.37	35.48	
110.					0.83	0.06	6.53	44.21	
125.	8.24	20.58	15.95		0.95	0.15	2.21	55.68	
150.	8.49	20.97	16.22		1.66	0.06	0.09	73.69	
175.					3.54	1.34		87.33	
200.	8.69	21.39	16.53		4.47	1.59		97.70	
250.	8.77	21.62	16.69		4.48	2.19		119.54	
300.	8.81	21.75	16.79		4.61	2.61		134.28	
400.	8.84	21.92	16.92		4.91	4.14		157.20	
500.	8.85	22.04	17.01		5.57	5.41		181.76	

STATION NUMBER: K-52(M15S30)
TOTAL DEPTH: 1990.0 m.
PLACE:
DATE:20-04-90
BAROMETRIC PRESSURE:1017.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:13:45
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:35.30'
LATITUDE:42.15'
WIND:4
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:3.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.24
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.81	18.06	13.79	11.86	0.02		0.19	3.56	
5.	9.81	18.06	13.79	11.71					
10.	9.81	18.06	13.79	11.81	0.02		0.08	3.56	
15.	9.80	18.06	13.79	11.94					
20.	9.74	18.07	13.80	11.91				3.50	
25.	9.29	18.08	13.87	12.21					
30.	7.72	18.18	14.13	12.21	0.02		0.13	3.69	
40.	7.40	18.22	14.19	11.81					
50.	7.27	18.25	14.23	11.55	0.08		1.11	5.06	
60.	7.11	18.35	14.33	10.98					
70.	7.18	18.54	14.46	9.18					
75.	7.18	18.60	14.51	8.76	0.21		3.07	8.13	
80.	7.30	18.90	14.73	7.82					
90.	7.46	19.26	15.00	4.83					
100.	7.63	19.60	15.25	2.39					
110.								29.48	
113.								39.30	
125.	8.11	20.38	15.81		0.64		7.21	36.03	
141.									
150.	8.42	20.84	16.13		0.84	0.09	1.38	52.40	
164.									
188.					2.29	0.18	0.09	75.33	
200.	8.66	21.33	16.48			0.82		83.51	
235.									
250.	8.76	21.57	16.66		2.59	1.55		105.89	
282.									
300.	8.80	21.73	16.77		4.46	1.81		125.00	
376.									
400.	8.83	21.91	16.91		4.82	3.35		155.56	
470.									
500.	8.85	22.03	17.00		5.68	4.72		177.94	

STATION NUMBER: K-53(M00S30)
TOTAL DEPTH: 550.0 m.
PLACE:
DATE:20-04-90
BAROMETRIC PRESSURE:1017
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:16:40
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:35.30'
LATITUDE:42. 0'
WIND:3
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:15.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.52
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.17	17.96	13.66	12.06	0.02		0.13	3.56	0.60
5.	10.15	17.96	13.66	12.08					
10.	10.09	17.96	13.67	12.09	0.04		0.32	3.63	
15.	9.60	18.01	13.77	12.23					
20.	8.61	18.05	13.92	12.57	0.03		0.15	3.31	
25.	8.27	18.10	14.00	12.78					
30.	7.93	18.11	14.05	12.54	0.07		0.26	3.38	
40.	7.24	18.16	14.17	12.38					
50.	7.23	18.22	14.21	12.11	0.08		1.54	4.06	
60.	7.07	18.43	14.39	11.32					
70.	7.15	18.60	14.52	9.18					
75.	7.19	18.70	14.59	7.91	0.27		2.88	12.06	
80.	7.22	18.76	14.63	7.42					
90.	7.47	19.28	15.01	4.32					
100.	7.74	19.80	15.39	0.93	0.79		7.33	32.20	
110.					0.75		2.61	46.94	
120.					0.38	0.01	1.79	17.31	
125.	8.27	20.62	15.98						
150.	8.50	20.99	16.23		3.05	0.18	0.07	75.87	
175.					3.97	0.87		86.79	
200.	8.66	21.33	16.48		4.84	1.21		94.43	
250.	8.77	21.61	16.69		4.98	1.89		205.78	

STATION NUMBER: K53-N(M04S15) SEASON:

TOTAL DEPTH: 150.0 m. STATION TYPE:

PLACE: CHARACTER

DATE:20-04-90 TIME:18:24 LONGITUDE:35.15'

BAROMETRIC PRESSURE:1017.5 AIR TEMPERATURE: LATITUDE:42. 4'

CLOUD:bc WAVE STATE:1 WIND:2

SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:SE

OS: TR: TSS:0.50

SD/Hg: SD/Cd: SD/PH:

SW/Hg:1.3 SW/Cd: SW/PH:

SM/Hg: SM/Cd: FC/0m.:

BOD-5: COD: FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.28	18.00	13.68	11.89	0.05		0.29	3.31	
5.	10.14	18.01	13.70	12.04					
10.	9.99	18.01	13.73	12.13	0.03		0.08	3.38	
15.	9.58	18.05	13.81	12.22					
20.	9.41	18.07	13.85	12.16	0.05		0.31	5.38	
25.	8.75	18.10	13.95	12.40					
30.	8.17	18.14	14.04	12.43	0.03		0.17	3.56	
40.	7.76	18.15	14.10	12.38					
50.	7.28	18.29	14.26	12.07	0.03		1.04	4.38	
60.	7.03	18.41	14.38	11.61					
70.	7.21	18.72	14.60	8.46					
75.	7.32	18.95	14.77	6.94	0.28		2.35	14.44	
80.	7.48	19.27	15.01	5.12					
90.	7.81	19.92	15.48	1.20					
100.	7.92	20.10	15.61		0.76	-11	2.95	44.76	
110.					0.32	-11	1.96	48.58	
120.					0.95	0.06	5.16	51.85	
125.	8.17	20.49	15.89						
150.					2.25	0.15	0.47	68.78	

STATION NUMBER: K-54(L45S30)
TOTAL DEPTH: 81.0 m.
PLACE:
DATE:13-04-90
BAROMETRIC PRESSURE:1020
CLOUD:r
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:14:41
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:35.30'
LATITUDE:41.45'
WIND:2
WIND DIRECTION:NW

OS:
SD/Hg:
SW/Hg:1.2
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.54
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.85	17.97	13.71	12.03	0.05		0.09	3.28	
5.	9.67	17.98	13.75	12.05					
10.	8.94	18.01	13.85	12.42	0.05		0.09	3.25	
15.	7.58	18.10	14.08	12.58					
20.	7.48	18.13	14.11	12.21	0.05		0.61	3.88	
25.	7.26	18.14	14.14	12.18					
30.	7.23	18.17	14.17	11.91	0.09		1.08	4.13	
40.	7.14	18.23	14.22	11.63					
50.	7.10	18.26	14.26	11.37	0.06		2.34	5.38	
60.	7.11	18.40	14.36	10.84					
70.	7.39	19.11	14.89	6.65					
75.	7.46	19.27	15.01	3.94	0.38		3.94	26.38	

STATION NUMBER: K-55(L30T00)
TOTAL DEPTH: 500.0 m.
PLACE:
DATE:13-04-90
BAROMETRIC PRESSURE:1020
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:20:09
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:36. 0'
LATITUDE:41.50'
WIND:2
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:3.1
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.72
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.57	17.97	13.75	12.13	0.05		0.66	3.19	0.50
5.	9.53	17.98	13.76	12.14					
10.	9.12	17.98	13.81	12.31	0.07		0.16	3.19	0.46
15.	8.91	17.99	13.85	12.47					
20.	8.82	18.00	13.87	12.58	0.07		0.11	3.06	0.41
25.	8.68	18.01	13.89	12.56					
30.	8.52	18.02	13.92	12.46	0.03		0.10	3.06	0.60
40.	7.34	18.11	14.12	12.35					
50.	7.26	18.18	14.18	11.94	0.05		0.70	4.00	
60.	7.06	18.26	14.26	11.76					
70.	7.06	18.41	14.38	10.31					
75.	7.14	18.59	14.51	10.07	0.15		5.74	7.63	
80.	7.21	18.73	14.61	7.92					
90.	7.36	19.04	14.84	6.10					
100.	7.54	19.43	15.12	3.13	0.38		7.49	17.06	
120.					0.49	0.52	0.30	34.12	
125.	8.02	20.24	15.71						
130.					0.68	0.77		36.40	
150.	8.31	20.67	16.01		0.81	0.69		56.51	
175.					1.90	0.94		65.57	
200.	8.68	21.36	16.50		3.05	1.02		86.36	
250.	8.75	21.54	16.64		3.13	1.95		111.95	
300.	8.79	21.68	16.74		3.43	2.20		127.41	
400.	8.83	21.89	16.89		4.26	2.54		158.33	

STATION NUMBER: K-56(MOOTOO)
TOTAL DEPTH: 1150.0 m.
PLACE:
DATE:13-04-90
BAROMETRIC PRESSURE:1020
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:22:09
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:36. 0'
LATITUDE:42. 0'
WIND:2
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:7.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.50
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.36	17.99	13.79	11.80	0.02		0.09	3.00	
5.	9.13	18.00	13.83	11.72					
10.	9.02	18.00	13.84	11.91	0.02		0.16	2.88	
15.	8.99	18.00	13.84	11.94					
20.	8.74	18.01	13.88	12.05	0.03		1.26	3.06	
25.	8.65	18.02	13.90	11.96					
30.	8.43	18.02	13.93	12.05	0.06		3.12	2.94	
40.	7.59	18.07	14.06	12.08					
50.	7.20	18.17	14.17	11.74	0.08		5.97	3.63	
60.	7.02	18.27	14.27	11.26					
70.	7.00	18.37	14.35	10.80					
75.	7.09	18.52	14.46	9.91	0.12		4.48	8.69	
80.	7.18	18.69	14.59	8.19					
90.	7.44	19.22	14.97	4.86					
100.	7.61	19.57	15.23	1.75	0.60		2.60	30.92	
120.					0.83	0.64	0.18	43.72	
125.	8.18	20.47	15.87						
130.					0.87	0.60		50.65	
150.	8.44	20.89	16.16		4.08	0.69		64.19	
175.					3.43	0.86		82.10	
200.	8.67	21.33	16.48		4.30	1.02		92.23	
250.	8.75	21.56	16.65		3.67	1.61		113.02	
300.	8.80	21.72	16.77		3.35	2.04		132.21	
400.	8.83	21.91	16.91		5.28	2.63		159.93	
500.	8.85	22.04	17.01						

STATION NUMBER: K-58(M10T00)
SEASON:
TOTAL DEPTH: 1490.0 m.
PLACE:
DATE:20-04-90
BAROMETRIC PRESSURE:1021
CLOUD:bc
SECCHI DISK DEPTH:

STATION TYPE:

TIME:02:32
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:36. 0'
LATITUDE:42.10'
WIND:2
WIND DIRECTION:NNE

OS:
SD/Hg:
SW/Hg:3.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.28
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.01	18.08	13.77	11.72	0.03		0.08	3.50	
5.	10.02	18.08	13.77	11.73					
10.	9.55	18.08	13.84	11.87	0.05		0.16	3.63	
15.	9.50	18.07	13.84	11.85					
20.	9.17	18.08	13.89	12.05	0.02		0.40	3.63	
25.	8.63	18.09	13.96	12.05					
30.	7.98	18.15	14.08	12.18	0.03		2.51	3.16	
40.	7.30	18.23	14.21	11.75					
50.	7.18	18.33	14.30	11.45	0.03		2.72	4.81	
60.	7.19	18.70	14.59	8.39					
70.	7.29	18.88	14.72	6.31					
75.	7.36	19.05	14.85	5.43	0.25		4.13	18.56	
80.	7.41	19.14	14.91	4.44					
90.	7.48	19.33	15.05	3.17					
100.	7.59	19.54	15.21	2.14	0.53		2.10	30.57	
110.					0.53	0.27	0.18	33.84	
125.	8.07	20.31	15.75		0.51	0.35		47.49	
150.	8.47	20.95	16.21		2.12	0.44		73.14	
175.					2.51	1.47		85.70	
200.	8.68	21.37	16.51		3.17	1.64		97.16	
250.	8.76	21.59	16.67		3.46	2.24		116.26	
300.	8.81	21.74	16.78		3.81	2.97		135.94	
400.	8.84	21.92	16.92		4.26	4.21		161.57	
500.	8.85	22.04	17.01		5.74	5.66		185.58	

STATION NUMBER: K-59(M35T00)
TOTAL DEPTH: 2000.0 m.
PLACE:
DATE:20-04-90
BAROMETRIC PRESSURE:1020
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:07:05
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:36. 0'
LATITUDE:42.35'
WIND:3
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:-11
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.47
SD/PH:
SW/PH:
FC/Om.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.88	18.29	13.95	11.50	0.03			4.06	0.35
5.	9.88	18.29	13.95	11.64					
9.								4.13	
10.	9.88	18.29	13.95	11.62	0.02				
15.	9.79	18.29	13.97	11.67					
19.								4.13	
20.	9.36	18.29	14.02	11.84	0.02				
25.	8.61	18.31	14.13	12.08					
28.								4.19	
30.	8.18	18.31	14.18	12.08	0.03				
40.	7.56	18.33	14.26	12.18					
47.								4.31	
50.	7.09	18.36	14.33	11.95	0.03				
60.	7.02	18.50	14.45	11.50					
66.								28.93	
70.	7.51	19.42	15.12	2.10					
75.	7.63	19.62	15.27	0.66	1.01		7.28	38.75	
80.	7.75	19.83	15.41						
90.	7.99	20.17	15.65						
94.					0.26	0.09	2.05	56.77	
100.	8.18	20.45	15.85						
121.					2.30	0.27	0.09	68.78	
125.	8.44	20.87	16.15						
145.					3.04	0.47		83.51	
150.	8.59	21.16	16.36						
169.						0.87		95.52	
193.						0.99		102.62	
200.	8.73	21.48	16.59						
241.					3.16			123.90	
250.	8.79	21.65	16.72						
290.					3.36	1.98		139.19	
300.	8.81	21.77	16.80						
386.					3.83	4.12		169.20	
400.	8.84	21.94	16.94						
483.						5.58		190.58	
500.	8.85	22.05	17.02						

STATION NUMBER: K-61(L30T30)
SEASON:
TOTAL DEPTH: 500.0 m.
STATION TYPE:
PLACE:
CHARACTER
DATE:14-04-90
TIME:06:20
LONGITUDE:36.30'
BAROMETRIC PRESSURE:1019
AIR TEMPERATURE:
LATITUDE:41.30'
CLOUD:bc
WAVE STATE:2
WIND:3
SECCHI DISK DEPTH:
VISIBILITY:
WIND DIRECTION:SSE

OS:
TR:
TSS:0.54
SD/Hg:
SD/Cd:
SD/PH:
SW/Hg:0.7
SW/Cd:
SW/PH:
SM/Hg:
SM/Cd:
FC/0m.:
BOD-5:
COD:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.42	18.00	13.79	11.46	0.04		0.08	3.06	0.41
5.	9.42	18.00	13.79	11.44					
10.	9.25	18.00	13.81	11.79	0.02		0.28	2.94	0.47
15.	9.08	18.00	13.83	11.82					
20.	8.98	18.00	13.84	11.82	0.03		1.04	3.00	0.41
25.	8.58	18.02	13.91	12.04					
30.	8.07	18.04	13.98	11.93	0.02		1.77	3.00	0.50
40.	7.27	18.12	14.13	11.86					
50.	6.98	18.15	14.18	11.69	0.07		5.18	4.00	
60.	7.21	18.24	14.23	11.54					
70.	7.02	18.35	14.34	10.67					
75.	7.03	18.40	14.37	9.95	0.05		4.09	9.25	
80.	7.12	18.57	14.50	9.50					
90.	7.29	18.90	14.74	6.33					
98.					0.46		3.32	23.99	
100.	7.54	19.40	15.10	3.43					
118.					0.42		1.46	47.85	
125.	8.05	20.27	15.73						
128.					0.66	0.60	0.13	41.05	
148.					0.66	0.94	0.13	49.05	
150.	8.36	20.75	16.07						
172.					4.17	0.94		74.77	
197.					3.36	1.53		85.75	
200.	8.64	21.27	16.44						
246.					3.69	2.20		106.62	
250.	8.73	21.51	16.61						
295.					3.74	2.96		115.18	
300.	8.78	21.69	16.74						
394.					4.01	4.63		161.51	
400.	8.83	21.90	16.91						

STATION NUMBER: K-65(M10T30)
TOTAL DEPTH: 950.0 m.
PLACE:
DATE:19-04-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:22:56
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:36.30'
LATITUDE:42.10'
WIND:1
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:9.9
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.24
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.58	18.13	13.74	11.36	0.03		0.33	3.06	
5.	10.57	18.13	13.74	11.42					
10.	10.12	18.13	13.80	11.63	0.02		0.11	4.00	
15.	9.31	18.15	13.92	11.85					
20.	8.80	18.19	14.01	12.12	0.03		0.13	3.56	
25.	7.95	18.25	14.16	12.39					
30.	7.49	18.27	14.22	12.36	0.02		0.74	3.88	
40.	7.13	18.30	14.29	11.92					
50.	6.96	18.34	14.33	11.60	0.02		1.92	4.13	
60.	7.19	18.68	14.58	9.91					
70.	7.43	19.26	15.00	4.89	0.25		7.60	21.13	
75.	7.59	19.56	15.22	2.10					
80.	7.69	19.72	15.34	0.49	0.06		4.96	34.93	
90.	7.97	20.15	15.64						
100.	8.14	20.41	15.83		0.89	0.44	0.32	50.76	
125.	8.42	20.85	16.14		3.44	0.53	0.09	69.32	
150.	8.54	21.07	16.29		3.33	0.95		80.78	
175.					3.39	1.56		87.88	
200.	8.70	21.41	16.54		3.64	1.72		99.34	
250.	8.77	21.63	16.70		3.80	2.32		120.08	
300.	8.81	21.76	16.80		3.99	2.97		135.91	
400.	8.84	21.93	16.93		4.71	4.29		164.84	
500.	8.85	22.04	17.01		5.16	6.09		185.04	

STATION NUMBER: K-66(M00V00)
TOTAL DEPTH: 2050.0 m.
PLACE:
DATE:19-04-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:19:12
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:37. 0'
LATITUDE:42. 0'
WIND:2
WIND DIRECTION:SSW

OS:
SD/Hg:
SW/Hg:17.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.50
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.70	18.13	13.72	11.12	0.41		0.18	3.06	
5.	10.67	18.13	13.72	11.24					
10.	10.17	18.14	13.80	11.37	0.06		0.18	3.62	
15.	9.67	18.16	13.89	11.65					
20.	9.04	18.16	13.96	11.94	0.06		0.14	4.06	
25.	8.12	18.28	14.16	12.03					
30.	7.79	18.32	14.23	12.24	0.03		1.14	3.63	
40.	7.39	18.32	14.27	12.07					
49.					0.09		1.22	4.88	
50.	7.03	18.33	14.32	11.95					
60.	7.01	18.42	14.39	11.48					
69.					0.17		7.86	29.48	
70.	7.41	19.18	14.95	4.51					
75.	7.54	19.44	15.14	3.01					
79.					0.68		6.96	42.03	
80.	7.70	19.72	15.33	1.60					
90.	7.96	20.16	15.65						
98.					0.72		1.49	58.95	
100.	8.11	20.38	15.80						
123.					0.95	0.70	0.07	67.14	
125.	8.40	20.83	16.12						
148.					2.12	1.04		76.96	
150.	8.55	21.10	16.32						
172.					2.35	1.64		81.88	
197.					2.54	2.07		94.43	
200.	8.69	21.40	16.53						
246.					3.72	2.50		116.26	
250.	8.77	21.61	16.69						
295.					3.85	3.35		127.73	
300.	8.81	21.76	16.80						
394.					4.45	4.64		165.93	
400.	8.84	21.94	16.93						
492.					4.58	6.09		193.77	
500.	8.85	22.04	17.01						

STATION NUMBER: K-68(L30V00)
TOTAL DEPTH: 219.0 m.
PLACE:
DATE:14-04-90
BAROMETRIC PRESSURE:1022
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:23:40
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:37. 0'
LATITUDE:41.30'
WIND:4
WIND DIRECTION:NE

OS:
SD/Hg:
SW/Hg:1.9
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.64
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.43	18.05	13.83	12.08	0.05		0.14	3.25	
5.	9.43	18.05	13.83	12.02					
10.	9.43	18.05	13.83	12.24	0.04		0.23	3.31	
15.	9.43	18.06	13.83	12.28					
20.	9.28	18.07	13.86	12.43	0.02		0.35	3.25	
25.	9.20	18.13	13.92	12.40					
30.	8.12	18.21	14.11	12.67	0.02		0.63	3.63	
40.	7.28	18.28	14.25	12.41					
50.	7.10	18.30	14.28	12.54	0.02		1.23	4.00	
60.	7.04	18.32	14.31	12.38					
70.	7.18	18.70	14.59	9.86					
75.	7.28	18.88	14.72	7.10	0.02		1.32	4.56	
80.	7.41	19.16	14.93	5.50					
90.	7.64	19.60	15.25	2.45					
100.	7.76	19.83	15.42	1.02	0.28		4.73	27.19	
120.					0.50		3.45	42.12	
125.	8.16	20.44	15.84						
130.					0.56		0.15	49.58	
150.	8.41	20.84	16.13		0.71		0.11	61.31	
175.					4.34		0.07	71.44	

STATION NUMBER: K-71(L15V30)
TOTAL DEPTH: 1200.0 m.
PLACE:
DATE:15-04-90
BAROMETRIC PRESSURE:1023
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:11:00
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:37.30'
LATITUDE:41.15'
WIND:4
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:1.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.66
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.58	17.96	13.74	11.54	0.03		0.15	3.38	
5.	9.57	17.96	13.74	11.48					
10.	9.56	17.96	13.74	11.58	0.02		0.10	3.50	
15.	9.56	17.96	13.74	11.55					
19.					0.02		0.32	3.56	
20.	9.50	17.97	13.76	11.65					
25.	8.03	18.10	14.03	11.91					
29.					0.02		0.27	3.56	
30.	8.12	18.21	14.11	11.72					
40.	8.03	18.26	14.16	11.93					
48.								4.19	
50.	7.34	18.24	14.21	11.87					
60.	7.11	18.29	14.28	11.36					
70.	6.98	18.33	14.32	11.39					
72.								5.00	
75.	7.00	18.37	14.35	10.90					
80.	7.07	18.49	14.44	10.14					
90.	7.27	18.85	14.70	6.82					
94.								17.06	
100.	7.44	19.23	14.98	4.18					
113.								26.66	
122.					0.62	0.94	5.61	37.32	
125.	7.86	19.99	15.53						
141.						0.77		53.31	
150.	8.18	20.47	15.87						
164.						0.99		68.24	
188.						1.32		77.83	
200.	8.61	21.20	16.39						
250.	8.73	21.52	16.62						
282.						1.57		18.12	
300.	8.78	21.67	16.73						
400.	8.83	21.88	16.89						
500.	8.85	22.02	16.99						

STATION NUMBER: K-72(L45W00)
TOTAL DEPTH: 2050.0 m.
PLACE:
DATE:19-04-90
BAROMETRIC PRESSURE:1025
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:12:01
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41.45'
WIND:1
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:5.3
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.62
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.63	18.15	13.75	11.64	0.14		0.36	3.19	
5.	10.43	18.15	13.77	11.58					
10.	10.21	18.15	13.80	11.79	0.15		0.97	3.56	
15.	9.60	18.16	13.89	11.81					
20.	9.33	18.16	13.93	12.11	0.03		0.11	3.19	
25.	8.14	18.21	14.10	12.41					
30.	8.17	18.28	14.16	12.32	0.06		0.36	3.88	
40.	7.18	18.30	14.28	12.09					
50.	7.19	18.34	14.31	12.19	0.06		0.51	4.13	
60.	7.07	18.53	14.47	11.17					
70.	7.33	19.08	14.87	5.42					
75.	7.46	19.33	15.05	2.89	0.29		2.79	19.25	
80.	7.55	19.48	15.17	1.84					
90.	7.82	19.94	15.49						
100.	7.99	20.20	15.68		0.93		6.43	46.94	
120.					0.46		1.62	62.23	
125.	8.36	20.74	16.06						
130.					0.97		0.22	66.05	
150.	8.55	21.07	16.29		2.12	0.61	0.09	75.87	
175.					2.23	1.21		86.79	
200.	8.71	21.42	16.55		2.70	1.64		96.61	
250.	8.77	21.62	16.69		4.05	2.32		115.17	
300.	8.80	21.75	16.79		4.57	2.92		133.18	
400.	8.84	21.94	16.93		4.76	4.47		165.89	
500.	8.85	22.05	17.02		5.19	6.01		190.50	

STATION NUMBER: K73-P(L30W00)
TOTAL DEPTH: 1950.0 m.
PLACE:
DATE:16-04-90
BAROMETRIC PRESSURE:1021.5
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:03:25
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:38.30'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:2.1
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.30
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.58	18.04	13.80	11.72				3.38	
5.	9.57	18.04	13.80	11.82					
10.	9.55	18.04	13.80	11.81				3.38	
15.	9.44	18.03	13.81	11.85					
20.	8.55	18.08	13.95	12.16				3.63	
25.	7.36	18.15	14.14	12.07					
30.	7.24	18.19	14.18	11.81				4.00	
40.	7.10	18.29	14.28	11.37					
50.	7.12	18.57	14.49	10.55				7.13	
60.	7.30	18.94	14.77	7.17					
70.	7.50	19.34	15.06	3.54					
75.	7.55	19.44	15.13	2.54				29.48	
80.	7.63	19.59	15.24	1.86					
90.	7.75	19.81	15.40	0.31					
100.	7.90	20.05	15.57					43.12	
120.						0.99		56.22	
125.	8.26	20.59	15.95						
130.						1.07		62.22	
150.	8.48	20.95	16.21			1.24		71.50	
175.						1.57		83.51	
200.	8.68	21.36	16.50			1.82		189.95	
250.	8.75	21.57	16.66			2.49		91.15	
300.	8.80	21.73	16.77			3.16		112.99	
400.	8.84	21.92	16.92			4.50		134.82	
500.	8.85	22.03	17.01					163.75	

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STATION NUMBER: K-73(L15W00)
TOTAL DEPTH: 1900.0 m.
PLACE:
DATE:15-04-90
BAROMETRIC PRESSURE:1023
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:23:56
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:8.9
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.62
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.53	18.17	13.91	11.64	0.02		0.04	3.56	
5.	9.53	18.17	13.91	11.96					
10.	9.55	18.20	13.93	11.86	0.03		0.10	3.63	
15.	9.54	18.20	13.93	11.85					
20.	9.49	18.21	13.94	11.91	<0.02		0.16	3.56	
25.	8.61	18.22	14.06	12.12					
30.	7.71	18.28	14.21	12.38	<0.02		0.16	3.81	
40.	7.20	18.30	14.27	12.14					
50.	7.00	18.31	14.30	12.08	<0.02		2.96	3.81	
60.	6.89	18.37	14.36	11.91					
70.	7.18	18.77	14.65	7.90					
75.	7.39	19.17	14.94	5.36	0.31		3.07	12.88	
80.	7.53	19.44	15.13	2.66					
90.	7.70	19.74	15.35	0.49					
100.	7.98	20.18	15.66		0.55		3.50	39.92	
120.					0.69		2.39	55.44	
125.	8.22	20.54	15.92						
130.					0.66	0.74	0.04	57.58	
150.	8.49	20.97	16.22		0.77	0.90		66.64	
175.					1.45	1.49		75.17	
200.	8.68	21.35	16.50		2.16	1.74		89.03	
250.	8.75	21.55	16.64		3.03	1.82		107.69	
300.	8.79	21.70	16.75		3.12	2.49		125.28	
400.	8.83	21.90	16.91		4.13	3.91		156.20	
500.	8.85	22.03	17.00		4.79	5.59		182.85	

STATION NUMBER: K74-P(L15W30)
TOTAL DEPTH: 1300.0 m.
PLACE:
DATE:16-04-90
BAROMETRIC PRESSURE:1022
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:
TIME:06:30
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:38.30'
LATITUDE:41.15'
WIND:2
WIND DIRECTION:SE

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.22
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.64	17.93	13.71	11.55				3.50	
5.	9.64	17.93	13.71	11.62					
10.	9.67	17.94	13.71	11.75				3.50	
15.	9.68	17.98	13.74	11.72					
20.	8.99	18.01	13.85	11.92				3.38	
25.	7.29	18.07	14.08	12.51					
30.	7.11	18.08	14.11	12.04				3.38	
40.	7.13	18.15	14.17	11.72					
50.	7.13	18.28	14.27	11.83				4.44	
60.	6.93	18.32	14.32	11.83					
70.	7.11	18.57	14.49	8.98					
75.	7.13	18.61	14.52	8.40				4.82	
80.	7.17	18.68	14.58	7.94					
90.	7.27	18.88	14.72	6.35					
100.	7.45	19.24	14.98	3.80				13.33	
125.	7.81	19.90	15.46	0.13					
130.								27.72	
150.	8.26	20.59	15.95					34.65	
175.								50.11	
200.	8.63	21.23	16.41					62.91	
250.	8.73	21.51	16.61					85.83	
300.	8.79	21.68	16.74					127.95	
400.	8.83	21.89	16.89						
500.	8.85	22.02	17.00						

STATION NUMBER: K-74(L15W00)
TOTAL DEPTH: 1800.0 m.
PLACE:
DATE:15-04-90
BAROMETRIC PRESSURE:1023
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:21:18
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41.15'
WIND:2
WIND DIRECTION:NNE

OS:
SD/Hg:
SW/Hg:16.8
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.53
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	9.68	18.07	13.81	11.95	0.13		0.15	3.38	
5.	9.68	18.07	13.81	11.94					
10.	9.67	18.07	13.81	11.98	0.05		0.19	3.63	
15.	9.65	18.07	13.82	11.91					
20.	8.94	18.05	13.89	12.08	0.02		0.31	3.50	
25.	8.64	18.07	13.94	11.99					
30.	8.17	18.18	14.08	12.16	0.02		2.42	3.63	
40.	7.42	18.28	14.24	12.33					
50.	7.05	18.30	14.29	12.22	0.02		2.43	3.69	
60.	6.98	18.31	14.31	12.03					
70.	6.97	18.38	14.36	11.52					
75.	7.02	18.52	14.46	10.11	0.18		5.82	8.19	
80.	7.21	18.80	14.67	8.32					
90.	7.38	19.14	14.92	4.42					
100.	7.62	19.59	15.24	1.52	0.54		4.04	30.92	
116.					0.44		2.79	39.45	
125.	8.06	20.28	15.73						
126.					0.71	0.57	0.11	45.85	
145.					0.77	0.65		55.98	
150.	8.36	20.74	16.06						
169.					2.48	0.65		69.30	
193.					2.62	1.07		62.91	
200.	8.62	21.21	16.39						
241.					2.78	1.91		100.22	
250.	8.73	21.52	16.62						
290.					2.80	2.58		122.08	
300.	8.79	21.69	16.75						
386.					4.04	4.17		154.60	
400.	8.84	21.90	16.91						
483.					5.42	5.34		182.86	
500.	8.85	22.01	16.99						

STATION NUMBER: K79-P(L10X00)
TOTAL DEPTH: 1150.0 m.
PLACE:
DATE:16-04-90
BAROMETRIC PRESSURE:1022.5
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:13:20
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:39. 0'
LATITUDE:41.10'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:0.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.76
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.25	17.88	13.59	11.79	0.03		0.08	3.88	0.33
5.	10.24	17.88	13.59	11.83					
10.	10.19	17.89	13.60	11.86	0.03		0.19	4.13	0.28
15.	9.76	17.98	13.73	12.04					
20.	8.95	18.12	13.94	12.40	0.04		0.26	3.44	0.63
25.	8.11	18.25	14.14	12.60					
30.	7.49	18.21	14.18	12.74	0.02		0.13	3.69	
40.	7.13	18.26	14.25	11.99					
50.	6.97	18.32	14.32	12.06	0.12		1.14	5.38	
60.	7.05	18.45	14.41	10.54					
70.	7.16	18.61	14.53	8.58					
75.	7.23	18.74	14.62	7.70					
80.	7.29	18.87	14.71	6.77					
90.	7.40	19.16	14.93	4.57					
100.	7.57	19.51	15.19	2.21	0.46		2.93	27.84	
120.					0.73		4.89	42.58	
125.	7.99	20.16	15.65						
130.					0.77		4.64	49.13	
150.	8.18	20.46	15.86		0.91		2.14	54.04	
175.					1.93		0.18	66.59	
200.	8.60	21.19	16.38		3.12		0.07	82.42	
250.	8.72	21.47	16.59						
300.	8.78	21.67	16.73		3.71			126.09	
400.	8.84	21.91	16.91		3.85			162.66	
500.	8.85	22.02	17.00		4.01				

STATION NUMBER: K-75(L05W00)
TOTAL DEPTH: 261.0 m.
PLACE:
DATE:15-04-90
BAROMETRIC PRESSURE:1023.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:19:40
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:38. 0'
LATITUDE:41. 5'
WIND:2
WIND DIRECTION:NNE

OS:
SD/Hg:
SW/Hg:-11
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.75
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.21	17.48	13.29	11.57	0.02		0.14	7.19	
5.	10.16	17.53	13.33	11.61					
10.	10.02	17.81	13.57	11.70	0.02		0.09	3.69	
15.	9.77	17.99	13.74	11.88					
20.	9.29	18.06	13.85	12.21	0.02		0.27	2.63	
25.	8.26	18.16	14.05	12.40					
30.	7.39	18.11	14.11	12.38	0.02		0.19	3.38	
40.	7.30	18.17	14.17	11.89					
50.	7.18	18.27	14.25	12.13	0.02		1.93	3.75	
60.	6.97	18.28	14.28	11.86					
70.	6.89	18.34	14.34	11.21					
75.	6.99	18.41	14.39	10.72	0.12		1.03	4.56	
80.	7.06	18.47	14.43	9.70					
90.	7.20	18.76	14.64	7.92					
100.	7.27	18.88	14.73	5.96	0.17		5.07	15.99	
120.					0.39		6.93	23.99	
125.	7.70	19.72	15.33	1.59					
130.					0.73		5.79	33.59	
150.	8.16	20.42	15.83		1.00	0.07	1.16	49.58	
175.					1.43	0.07	0.11	66.11	
200.	8.60	21.16	16.36		2.59	1.40		79.97	
250.	8.73	21.50	16.60		4.98	2.41		84.23	

STATION NUMBER: K-76(L00W10)
TOTAL DEPTH: 94.0 m.
PLACE:
DATE:09-04-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:18:16
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:38.10'
LATITUDE:41.15'
WIND:2
WIND DIRECTION:SW

OS:
SD/Hg:
SW/Hg:8.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.45
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	H2S	NO3-N + NO2-N	Si	TOC	CHL-a
0.	10.13	17.60	13.38	11.75							
5.	10.13	17.61	13.39	11.76					5.06		
10.	10.04	17.80	13.55	11.86							
15.	9.42	18.02	13.80	12.09					5.06		
20.	8.73	18.09	13.94	12.31							
25.	7.76	18.11	14.07	12.34					2.53		
30.	7.27	18.15	14.15	12.10		0.04		0.37	3.38		
40.	7.16	18.21	14.21	11.75							
50.	7.06	18.27	14.27	11.97		0.07		0.76	4.00		
60.	7.02	18.32	14.31	11.29							
70.	7.03	18.44	14.40	10.48							
75.	7.10	18.56	14.49	9.24		0.10		1.24	6.00		
80.	7.17	18.67	14.57	8.39							

STATION NUMBER: K-79(L30X00)
TOTAL DEPTH: 1950.0 m.
PLACE:
DATE:19-04-90
BAROMETRIC PRESSURE:1023.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:04:00
AIR TEMPERATURE:
WAVE STATE:3
VISIBILITY:

CHARACTER
LONGITUDE:39. 0'
LATITUDE:41.30'
WIND:4
WIND DIRECTION:w

OS:
SD/Hg:
SW/Hg:15.8
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.58
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.43	17.98	13.64	11.35	0.03		0.21	3.13	0.25
5.	10.42	17.98	13.64	11.50					
10.	10.16	17.99	13.69	11.66	0.03		0.16	3.25	0.20
15.	9.21	18.04	13.85	12.03					
20.	7.68	18.14	14.10	12.35	0.02		0.11	3.06	0.41
25.	7.44	18.19	14.17	12.25					
30.	7.28	18.20	14.19	12.03	0.07		0.62	0.69	0.47
40.	7.09	18.29	14.28	11.84					
50.	6.98	18.32	14.31	12.06	0.06		1.28	4.19	0.38
60.	6.98	18.39	14.37	10.86					
75.					0.15		1.32	15.50	0.13
100.					0.43		3.27	38.21	
120.					0.45		5.23	46.94	
130.					0.61		1.70	54.58	
150.					0.76	0.44	0.09	67.14	
175.					2.72	0.99		78.05	
200.					3.44	1.72		91.70	
250.					3.53	2.15		114.08	
300.					4.43	2.84		133.18	
400.					5.30	4.29		163.20	
500.					5.39	5.92		191.04	

STATION NUMBER: K-80(L45X30)
TOTAL DEPTH: 1940.0 m.
PLACE:
DATE:18-04-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:4.8
SM/Hg:
BOD-5:

SEASON:
STATION TYPE:

TIME:22:24
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:39.30'
LATITUDE:41.45'
WIND:3
WIND DIRECTION:W

TSS:1.05
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.50	17.93	13.59	12.00	0.05		0.17	3.19	
5.	10.34	17.93	13.62	12.03					
10.	9.49	17.98	13.77	12.30	0.03		0.17	4.00	
15.	9.17	17.99	13.81	12.31					
20.	8.78	17.99	13.86	12.37	0.15		0.62	2.88	
25.	8.01	18.04	13.98	12.59					
30.	7.60	18.10	14.08	12.31	0.07		0.34	2.69	
40.	7.29	18.18	14.18	12.14					
50.	7.13	18.23	14.23	12.03	0.02		3.07	3.38	
60.	7.04	18.30	14.29	11.69					
70.	7.09	18.43	14.39	10.51					
75.	7.19	18.59	14.50	9.45	0.25		5.78	11.13	
80.	7.28	18.87	14.71	7.43					
90.	7.43	19.14	14.91	4.48					
100.	7.56	19.40	15.10	3.03					
116.					0.43		5.30	27.29	
125.	8.06	20.26	15.72		0.58		4.35	39.30	
126.									
145.					0.74		2.05	46.94	
150.	8.35	20.72	16.05		0.74	0.44	0.15	61.13	
169.									
193.					1.47	0.74	0.11	71.50	
200.	8.63	21.27	16.44		2.12	1.30	0.07	79.15	
241.									
250.	8.74	21.53	16.63		2.48	1.98		106.44	
290.									
300.	8.79	21.70	16.76		3.80	2.67		127.18	
386.									
400.	8.83	21.91	16.91		3.99	4.12		158.29	
483.									
500.	8.85	22.04	17.01		4.59	4.63		186.13	

STATION NUMBER: K-81(L30X30)
TOTAL DEPTH: 1940.0 m.
PLACE:
DATE:18-04-90
BAROMETRIC PRESSURE:1023
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:20:01
AIR TEMPERATURE:
WAVE STATE:2
VISIBILITY:

CHARACTER
LONGITUDE:39.30'
LATITUDE:41.30'
WIND:3
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:0.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.89
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.40	17.80	13.50	12.05	0.04		0.36	5.19	
5.	10.40	17.80	13.50	12.11					
10.	9.43	17.89	13.70	12.43	0.03		0.16	4.50	
15.	9.08	17.90	13.76	12.55					
20.	8.80	17.95	13.83	12.52	0.02		0.08	3.38	
25.	8.07	18.06	14.00	12.56					
30.	7.67	18.07	14.05	12.44	0.08		0.56	2.81	
40.	7.33	18.17	14.16	12.20					
50.	7.15	18.23	14.23	12.48	0.10		0.95	3.94	
60.	7.13	18.29	14.27	12.10					
70.	7.11	18.29	14.28	11.74					
75.	7.10	18.31	14.29	11.68	0.11		1.01	4.94	
80.	6.95	18.33	14.33	11.65					
90.	7.23	18.64	14.54	9.33					
100.	7.45	19.17	14.94	5.10	0.43		6.66	22.38	
116.					0.45		5.19	26.20	
125.	7.86	19.99	15.53						
126.					0.47		3.69	35.48	
145.					0.35		1.94	45.30	
150.	8.32	20.68	16.01						
169.					1.92	0.82	0.11	68.23	
193.					2.65	0.95	0.05	81.33	
200.	8.62	21.25	16.42						
241.					3.22	1.64		103.71	
250.	8.74	21.55	16.64						
290.					3.34	2.41		123.06	
300.	8.79	21.72	16.77						
386.					3.39	3.78		155.02	
400.	8.83	21.92	16.92						
483.					3.68	5.75		184.49	
500.	8.85	22.04	17.01						

STATION NUMBER: K-82(L10X30)
TOTAL DEPTH: 950.0 m.
PLACE:
DATE:16-04-90
BAROMETRIC PRESSURE:1022.5
CLOUD:c
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:18:11
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:39.30'
LATITUDE:41.10'
WIND:2
WIND DIRECTION:E

OS:
SD/Hg:
SW/Hg:5.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.78
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	10.40	17.74	13.46	11.63	0.03		0.36	4.88	
5.	10.04	17.76	13.53	11.94					
10.	9.51	17.84	13.65	12.08	0.02		0.23	4.06	
15.	9.51	17.85	13.66	12.00					
20.	9.30	17.88	13.71	12.07	0.02		0.10	3.81	
25.	9.08	17.90	13.76	12.05					
30.	7.98	18.06	14.01	12.23	0.03		0.27	3.38	
40.	7.51	18.14	14.12	11.95					
50.	7.09	18.19	14.20	11.99	0.08		1.27	2.81	
60.	7.11	18.24	14.24	11.74					
70.	7.01	18.31	14.30	11.20					
75.	7.09	18.39	14.36	10.43	0.13		5.25	5.88	
80.	7.11	18.45	14.40	10.08					
90.	7.32	18.71	14.59	8.31					
100.	7.41	19.05	14.84	5.38	0.55		7.93	19.72	
120.					0.38		1.09	29.32	
125.	7.76	19.79	15.39	0.65					
130.					0.42	0.69	0.09	36.25	
150.	8.10	20.34	15.77		0.87	0.77		40.52	
175.					0.85	1.43		61.84	
200.	8.56	21.13	16.34		3.05	1.23		77.83	
250.	8.71	21.46	16.58		3.99	2.20		102.89	
300.	8.79	21.68	16.74		4.44	2.80		129.01	
400.	8.83	21.90	16.90		5.00	4.06		157.27	
500.	8.85	22.02	17.00		5.53	5.75		188.19	

STATION NUMBER: K-83(L10Y00)
TOTAL DEPTH: 1100.0 m.
PLACE:
DATE:17-04-90
BAROMETRIC PRESSURE:1019
CLOUD:bc
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:14.0
SM/Hg:
BOD-5:

SEASON:
STATION TYPE:

TIME:18:15
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:40. 0'
LATITUDE:41.10'
WIND:2
WIND DIRECTION:E

TSS:0.56
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	11.24	17.93	13.49	11.61	0.09		0.08	2.69	
5.	10.99	17.98	13.56	11.86					
10.	9.81	17.95	13.70	12.16	0.03		0.11	2.50	
15.	9.64	17.95	13.72	12.17					
20.	9.02	17.95	13.80	12.32	0.02		0.14	2.56	
25.	8.32	17.97	13.90	12.54					
30.	7.84	17.99	13.96	12.45	0.04		3.79	2.50	
40.	7.34	18.03	14.05	12.28					
50.	7.16	18.08	14.11	11.94	0.11		5.91	3.00	
60.	7.05	18.16	14.18	11.84					
70.	7.10	18.27	14.26	11.54					
75.	7.11	18.33	14.31	10.78	0.42		8.08	21.29	
80.	7.10	18.39	14.35	10.41					
90.	7.32	18.72	14.60	8.01					
100.	7.45	19.07	14.85	5.14					
120.					0.50	0.77	0.08	31.11	
125.	7.78	19.83	15.41	0.66					
130.					0.88	0.77		39.85	
150.	8.18	20.45	15.85		0.97	0.77		54.38	
175.					1.80	0.69		69.32	
200.	8.58	21.17	16.36		2.45	1.28		82.97	
250.	8.72	21.49	16.60		2.82	2.20		105.89	
300.	8.78	21.66	16.73		3.62	2.96		126.63	
400.	8.83	21.89	16.90		3.67	4.74		160.48	
500.	8.85	22.01	16.99		3.81	5.41		183.40	

STATION NUMBER: K-84(L30Y00)
TOTAL DEPTH: 1850.0 m.
PLACE:
DATE:18-04-90
BAROMETRIC PRESSURE:1020
CLOUD:f
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:16.7
SM/Hg:
BOD-5:

SEASON:
STATION TYPE:

TIME:16:08
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:40. 0'
LATITUDE:41.30'
WIND:3
WIND DIRECTION:W

TSS:1.28
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	11.54	17.94	13.45	12.19	0.02		0.24	2.38	
5.	11.30	17.97	13.51	12.48					
10.	10.09	17.95	13.66	12.59	0.04		0.09	2.44	
15.	8.92	17.98	13.83	13.20					
19.					0.03		0.08	2.44	
20.	7.95	17.98	13.95	13.31					
25.	7.50	18.00	14.01	12.95					
29.					0.03		0.21	2.31	
30.	7.37	18.02	14.04	12.72					
40.	7.24	18.05	14.08	12.78					
48.					0.08		1.75	2.75	
50.	7.06	18.16	14.18	12.54					
60.	6.94	18.21	14.23	12.31					
70.	6.96	18.28	14.28	11.84					
72.					0.07		1.74	4.06	
75.	7.07	18.35	14.33	11.37					
80.	7.15	18.46	14.41	10.58					
90.	7.37	18.72	14.59	8.13					
97.					0.06		3.30	14.74	
100.	7.43	19.00	14.80	5.79					
104.					0.06		7.86	21.29	
113.					0.11		3.23		
125.	7.78	19.81	15.40	1.10					
130.					0.23		0.66	54.58	
150.	8.15	20.43	15.84						
152.					0.41		0.07		
173.					0.66				
200.	8.58	21.16	16.36						
217.					0.78				
250.	8.72	21.49	16.60						
260.					0.88				
300.	8.78	21.69	16.75						
346.					3.41				
400.	8.83	21.90	16.90						
433.					4.17				
500.	8.85	22.04	17.01						

STATION NUMBER: K85-P(L30Z00)
TOTAL DEPTH: 1450.0 m.
PLACE:
DATE:18-04-90
BAROMETRIC PRESSURE:1020
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:08:00
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:41. 0'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:3.2
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.78
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	11.64	18.00	13.48	11.53	0.02		0.34	4.44	
5.	11.15	18.09	13.62	11.68					
10.	10.70	18.07	13.67	11.96	0.03		0.11	3.06	
15.	10.32	18.09	13.74	12.01					
20.	8.29	18.11	14.02	12.65	0.03		0.08	2.88	
25.	7.98	18.10	14.04	12.82					
30.	7.99	18.13	14.06	12.55	0.03		0.06	3.19	
40.	7.88	18.13	14.07	12.15					
50.	7.53	18.23	14.19	11.72	0.02		3.25	3.25	
60.	7.21	18.40	14.35	10.61					
70.	7.26	18.64	14.54	8.56					
75.	7.42	18.89	14.72	6.97	0.27		5.69	15.50	
80.	7.44	19.05	14.84	5.28					
90.	7.56	19.38	15.09	2.81					
98.									
100.	7.72	19.71	15.32	1.05	0.35		7.56	33.84	
118.									
125.	8.14	20.38	15.80		0.62		3.00	44.76	
128.									
148.					0.66		0.88	51.86	
150.	8.42	20.85	16.14		0.76	0.61	0.04	64.41	
172.									
197.					3.29	0.95		75.33	
200.					3.59	1.47		90.61	
246.									
250.					3.93	2.15		110.26	
295.									
394.					4.17	3.01		128.82	
492.					4.26	3.95		158.84	
					4.70	5.91		186.13	

STATION NUMBER: K-85(L30Y30)
TOTAL DEPTH: 1750.0 m.
PLACE:
DATE:18-04-90
BAROMETRIC PRESSURE:1020
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:11:55
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:40.30'
LATITUDE:41.30'
WIND:2
WIND DIRECTION:W

OS:
SD/Hg:
SW/Hg:3.0
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.68
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	11.28	18.04	13.57	9.44	0.01		0.10	2.69	0.45
5.	10.86	18.07	13.65	10.69					
10.	10.27	18.05	13.72	12.37	0.03		0.10	2.56	0.50
15.	10.14	18.06	13.74	12.38					
20.	8.80	18.07	13.92	12.81	0.02		0.04	2.56	0.47
25.	7.84	18.10	14.05	13.13					
30.	7.59	18.10	14.08	12.90	0.04		0.16	2.56	0.54
40.	7.25	18.17	14.17	12.51					
50.	7.05	18.27	14.27	11.93	0.09		1.45	4.06	0.20
60.	7.21	18.45	14.39	11.01					
70.	7.38	18.73	14.60	8.41					
75.	7.45	18.97	14.78	6.50	0.26		2.34	11.88	
80.	7.48	19.15	14.92	4.77					
90.	7.64	19.56	15.22	2.07					
100.	7.84	19.95	15.50	.25	0.39		2.58	36.57	
120.					0.74		3.96	51.86	
125.	8.26	20.57	15.94						
130					1.03		3.39	58.95	
150.	8.47	20.95	16.21		1.94	0.27	0.07	69.32	
175.					3.39	1.04	0.11	84.60	
200.	8.67	21.36	16.50		3.86	1.55	0.11	95.52	
250.	8.75	21.59	16.67		4.42	2.07		114.63	
300.	8.80	21.73	16.78		4.49	2.75		129.91	
400.	8.84	21.94	16.93		4.50	4.29		163.20	
500.	8.85	22.06	17.03		5.27	6.26		193.77	

STATION NUMBER: K-86(L10Y30)
TOTAL DEPTH: 1600.0 m.
PLACE:
DATE:17-04-90
BAROMETRIC PRESSURE:1019.5
CLOUD:bc
SECCHI DISK DEPTH:

SEASON:
STATION TYPE:

TIME:22:14
AIR TEMPERATURE:
WAVE STATE:1
VISIBILITY:

CHARACTER
LONGITUDE:40.30'
LATITUDE:41.10'
WIND:2
WIND DIRECTION:E

DS:
SD/Hg:
SW/Hg:1.0
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.12
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	11.38	17.93	13.47	11.84	0.04		0.06		
5.	11.27	17.94	13.49	11.90					
10.	10.05	17.97	13.68	12.20	0.06		0.08	2.88	
15.	9.93	17.96	13.70	12.23					
20.	9.46	17.99	13.78	12.40	0.02		0.05	2.69	
25.	8.92	18.06	13.90	12.52					
30.	8.35	18.26	14.13	12.52	0.02		0.15	3.00	
40.	7.47	18.27	14.22	12.91					
50.	7.14	18.27	14.26	12.61	0.07		1.27	3.56	
60.	6.90	18.30	14.31	12.44					
70.	7.13	18.45	14.40	10.34					
75.	7.35	18.59	14.48	9.43	0.17		1.71	8.56	
80.	7.14	18.71	14.60	8.09					
90.	7.50	19.17	14.92	4.89					
100.	7.61	19.53	15.19	2.26	0.32		2.17	28.93	
120.					0.55	0.10	1.27	38.76	
125.	8.03	20.22	15.69						
130.					0.92	0.77	0.07	38.76	
150.	8.37	20.77	16.08		2.23	0.77		60.59	
175.					2.25	0.77		76.96	
200.	8.62	21.26	16.43		2.26	1.61		87.88	
250.	8.71	21.46	16.58		2.27	2.07		103.71	
300.	8.78	21.66	16.73		3.51	2.58		118.45	
400.	8.83	21.90	16.90		3.76	4.12		153.38	
500.	8.85	22.02	17.00		5.57	5.49		183.40	

ÇİZELGE 4: EYLÜL, 1990 DÖNEMİNDE DOĞU KARADENİZ'DE ÖLÇÜLEN FİZİKSEL VE BİYOKİMYASAL PARAMETRELER

STATION NUMBER: M50Q45
TOTAL DEPTH: 2500.0 m.

DATE:27-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:3.9
SM/Hg:
BOD-5:

TIME:12:45
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:33.45'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

TSS:1.22
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	21.94	18.14	11.49						
5.	20.66	18.17	11.82				-11	1.87	0.79
10.	20.12	18.18	11.96						
15.	19.59	18.17	12.07						
19.				5.26					
20.	18.32	18.20	12.38		0.15		1.44	9.60	0.73
25.	9.07	18.29	14.06						
30.	7.76	18.28	14.20						
40.	7.26	18.40	14.35						
50.	7.25	18.57	14.48	0.23					
60.	7.44	19.13	14.90		0.55		7.40	41.76	1.45
70.	7.65	19.60	15.25						
75.	7.81	19.88	15.45	0.17					
80.	7.92	20.07	15.58		1.15		5.36	50.59	
90.	8.10	20.35	15.78		1.13		0.61	61.18	
99.				0.00					
100.	8.27	20.62	15.97		3.74		0.44	107.65	
125.	8.50	21.01	16.25						
150.	8.61	21.24	16.42						
200.	8.72	21.50	16.61						
250.	8.77	21.67	16.73		4.14		0.05	142.92	
300.	8.81	21.79	16.82						
400.	8.83	21.95	16.94		4.63			172.35	
500.	8.84	22.06	17.03		5.40			201.76	
501.									
600.	8.84	22.13	17.09		7.47			255.29	
700.	8.84	22.19	17.13						
740.									
800.	8.85	22.23	17.16		7.00			280.00	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.88	22.32	17.22						

STATION NUMBER: M30045
TOTAL DEPTH: 2500.0 m.

DATE:27-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:11:35
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:33.45'
LATITUDE:42.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:6.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.12
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	21.27	18.19	11.68						
5.	20.72	18.16	11.79		0.07			2.23	0.72
10.	20.49	18.15	11.84						
15.	20.38	18.15	11.87						
20.	20.08	18.14	11.94	5.99					
25.	12.58	18.31	13.57		0.07			0.96	0.51
30.	9.50	18.30	14.01						
40.	7.43	18.33	14.28						
50.	7.20	18.44	14.39	0.40					
60.	7.42	19.09	14.88		0.08			10.00	0.22
70.	7.68	19.65	15.28						
75.	7.78	19.80	15.39	0.40					
80.	7.86	19.94	15.49		0.14			40.00	
85.				0.10					
90.	8.01	20.20	15.68		1.14			45.29	
100.	8.18	20.47	15.87	0.00					
125.	8.43	20.90	16.18		1.43			57.06	
150.	8.57	21.15	16.35						
200.	8.71	21.47	16.58						
250.	8.77	21.65	16.72		4.16			107.65	
300.	8.80	21.77	16.81						
400.	8.83	21.93	16.93		4.80			141.76	
500.	8.84	22.04	17.01		5.23			173.25	
600.	8.84	22.12	17.07		6.21			200.59	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.23	17.16		6.27			251.18	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21		7.50			271.18	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						
					7.83			294.71	

STATION NUMBER: M10045
TOTAL DEPTH: 650.0 m.

DATE:27-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:09:10
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:33.45'
LATITUDE:42.10'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:2.5
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.18
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	20.51	18.07	11.78		0.03		-11	0.06	0.76
5.	20.93	18.09	11.69						
10.	20.96	18.10	11.69						
15.	20.82	18.10	11.72						
20.	20.44	18.08	11.81		0.03		0.12	0.40	0.68
25.	15.81	18.33	13.01						
30.	10.50	18.24	13.83						
40.	7.52	18.28	14.23						
50.	7.17	18.36	14.33		-11		0.29	5.93	0.69
60.	7.34	18.66	14.54						
70.	7.47	19.01	14.80						
75.	7.52	19.17	14.92	1.27	0.71		4.30	34.71	
80.	7.60	19.37	15.08						
85.				0.79	0.96		4.87	45.29	
90.	7.83	19.84	15.42						
100.	8.02	20.19	15.67	0.25	2.25		1.51	60.59	
125.	8.29	20.66	16.00	0.00	3.33		0.05	94.71	
150.	8.46	20.98	16.23	0.00	4.93			130.59	
200.	8.66	21.35	16.50	0.00	5.95			160.00	
250.	8.72	21.55	16.64						
300.	8.78	21.69	16.75						
400.	8.82	21.88	16.89	0.00	6.54		0.07	191.76	
500.	8.84	22.02	16.99		5.42			215.88	
600.	8.84	22.10	17.06		6.32			215.29	

STATION NUMBER: M50R15
TOTAL DEPTH: 2216.0 m.

DATE:26-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:3.0
SM/Hg:
BOD-5:

TIME:23:30
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:34.15'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

TSS:0.86
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	19.47	18.24	12.16						
5.	19.47	18.24	12.16		0.06		0.08	1.66	0.17
10.	19.42	18.25	12.17						
15.	19.05	18.25	12.26						
20.	18.41	18.25	12.40	5.90					
25.	16.72	18.30	12.81		0.08		0.49	7.61	
30.	8.19	18.35	14.21						
40.	7.30	18.36	14.31						
50.	7.21	18.54	14.47						
60.	7.45	19.16	14.92				0.35		0.43
70.	7.71	19.69	15.31						
75.	7.83	19.91	15.47	0.19					
80.	7.93	20.08	15.59		0.50		3.74	48.24	
85.				0.07					
90.	8.14	20.41	15.83		0.70		0.99	60.59	
100.	8.28	20.62	15.98	0.00					
125.	8.47	20.96	16.21	0.00	3.48		8.12	72.35	
150.	8.57	21.16	16.36		3.59		0.09	105.29	
200.	8.69	21.45	16.57						
250.	8.77	21.65	16.71		3.80			140.59	
300.	8.80	21.77	16.81						
400.	8.83	21.93	16.93		4.19			168.82	
500.	8.84	22.04	17.02		4.55			170.00	
600.	8.84	22.13	17.08		4.91			198.24	
700.	8.84	22.19	17.13						
750.									
800.	8.85	22.23	17.16		5.31			251.18	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21		8.09			278.24	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						

STATION NUMBER: M30R45
TOTAL DEPTH: 2000.0 m.

DATE:26-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:15:45
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:34.45'
LATITUDE:42.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.49
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	σt-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	19.16	18.12	12.14		0.05		-11	0.76	0.59
5.	19.01	18.12	12.17						
10.	18.87	18.11	12.19						
15.	18.63	18.11	12.24						
20.	17.23	18.23	12.63	6.24	0.07		0.45	6.92	0.89
25.	10.77	18.33	13.86						
30.	8.04	18.24	14.14						
40.	7.28	18.36	14.32						
50.	7.22	18.51	14.44	0.97	0.78		3.30		0.03
60.	7.41	19.05	14.85						
70.	7.73	19.69	15.31						
75.	7.82	19.86	15.43	0.54	0.32		1.29		
80.	7.87	19.96	15.51						
85.				0.17	3.66		0.31	104.71	
90.	8.09	20.32	15.76						
100.	8.20	20.51	15.90	0.00	5.39		0.14	139.41	
125.	8.47	20.96	16.22						
150.	8.55	21.15	16.35						
200.	8.69	21.44	16.56						
250.	8.76	21.65	16.72						
300.	8.80	21.76	16.80		4.28		166.47		
400.	8.83	21.91	16.92		5.88		166.47		
500.	8.84	22.03	17.01		5.70		193.53		
600.	8.84	22.12	17.08						
700.	8.84	22.19	17.13						
750.					7.51		251.18		
800.	8.85	22.23	17.16						
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20		8.19		279.41		
1100.	8.87	22.29	17.21						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.89	22.32	17.22		7.29		298.98		

STATION NUMBER: M50S45
TOTAL DEPTH: 2180.0 m.

DATE:25-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:00:45
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:35.45'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	19.33	18.09	12.07						
5.	19.33	18.09	12.07						
10.	19.32	18.09	12.07						
15.	19.00	18.10	12.16						
20.	18.46	18.12	12.29	6.09					
25.	15.73	18.20	12.92						
30.	8.72	18.33	14.14						
40.	7.40	18.39	14.33						
50.	7.27	18.71	14.59	4.60					
60.	7.56	19.43	15.13						
70.	7.78	19.81	15.40	0.27					
75.	7.87	19.97	15.51						
80.	7.95	20.12	15.62	0.10					
90.	8.15	20.42	15.84	0.07		0.00			
100.	8.29	20.64	15.98	0.07		0.03			
110.				0.06		0.05			
120.				0.00		0.06			
125.	8.49	21.01	16.25			0.36			
140.				0.00					
150.	8.63	21.26	16.43			0.66			
160.				0.00					
180.				0.00		0.76			
200.	8.73	21.52	16.62	0.00		0.98			
250.	8.78	21.67	16.73			1.13			
300.	8.81	21.79	16.82						
400.	8.83	21.94	16.93						
500.	8.84	22.06	17.03						
600.	8.84	22.14	17.09						
700.	8.84	22.19	17.13						
800.	8.85	22.23	17.16						
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.89	22.32	17.22						

STATION NUMBER: M10T15
TOTAL DEPTH: 1413.0 m.

DATE:25-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:12:00
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.15'
LATITUDE:42.10'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:3.6
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.92
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	18.68	18.20	12.31						
5.	18.54	18.17	12.31		0.19		0.12	1.99	
10.	18.41	18.15	12.33						
15.	17.57	18.15	12.51						
20.	16.68	18.18	12.71						
25.	8.62	18.26	14.09		0.31		0.32	2.18	
30.	7.69	18.32	14.24						
40.	7.20	18.44	14.38						
50.	7.44	18.96	14.77						
60.	7.49	19.10	14.88		0.62		1.80	18.82	
70.	7.60	19.39	15.09		0.63		5.97	21.76	0.46
75.	7.64	19.57	15.23		0.78		6.76	22.35	0.11
80.	7.77	19.79	15.38						
90.	7.95	20.10	15.61		0.83		7.74	27.65	
100.	8.10	20.35	15.79		0.98		9.29	37.00	
110.					1.30		5.02	51.18	
120.					1.43		4.02	57.65	
125.	8.40	20.83	16.13		2.93		2.68	64.71	
140.									
150.	8.53	21.08	16.30		3.30		1.57	73.53	
160.									
180.					4.78		0.27	71.18	
200.	8.68	21.40	16.53		4.88		0.06	80.59	
250.	8.76	21.61	16.69		5.58		-11	90.00	
300.	8.80	21.75	16.79						
400.	8.83	21.93	16.93		5.60			168.82	
500.	8.84	22.04	17.01		6.08			170.00	
600.	8.84	22.12	17.07		7.52			251.76	
700.	8.84	22.19	17.13						
750.									
800.	8.85	22.23	17.16		7.88			280.00	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.30	17.21		7.94			280.00	
1200.	8.88	22.31	17.22						
1300.	8.89	22.32	17.22						
1350.									
					8.34			303.81	

STATION NUMBER: L50T15
TOTAL DEPTH: 1000.0 m.

DATE:25-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:15:35
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.15'
LATITUDE:41.50'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:3.6
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.12
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	19.28	18.19	12.16		0.05		0.05	0.58	0.32
5.	19.32	18.09	12.07						
10.	19.14	18.08	12.10						
15.	18.41	18.09	12.28						
20.	18.28	18.08	12.30	5.96	0.04		0.11	0.55	0.90
25.	16.58	18.21	12.76						
30.	8.36	18.20	14.08						
40.	7.20	18.39	14.34						
50.	7.29	18.74	14.61	5.18	0.24		2.83	10.16	0.24
60.	7.56	19.29	15.01	3.47	0.63		5.93	19.41	
70.	7.71	19.65	15.28	2.17	0.94		7.38	27.65	
75.	7.77	19.79	15.38						
80.	7.82	19.88	15.45	0.73	1.17		8.10	39.41	
90.	7.89	19.99	15.53	0.66	1.30		8.68	41.76	
100.	7.96	20.12	15.62	0.42	1.36		7.85	50.00	
110.				0.45	1.43		5.97	49.41	
120.				0.14	1.48		1.31	46.47	
125.	8.17	20.47	15.87						
140.				0.01	2.23		0.44	62.94	
150.	8.40	20.85	16.14						
160.				0.00	4.64		0.14	70.00	
180.				0.00	4.80		0.06	85.29	
200.	8.66	21.34	16.49	0.00	4.96		-11	96.47	
250.	8.74	21.56	16.65						
300.	8.79	21.72	16.77		5.15		-11	134.12	
400.	8.83	21.92	16.92		5.62			166.47	
500.	8.84	22.02	16.99		6.51			192.35	
600.	8.84	22.11	17.07						
700.	8.84	22.18	17.12						
750.					7.49			251.18	
800.	8.85	22.22	17.15						
900.	8.86	22.25	17.18						
1000.	8.87	22.29	17.20		8.01			284.12	

STATION NUMBER: L30T45
TOTAL DEPTH: 338.0 m.

DATE:22-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:15:13
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.45'
LATITUDE:41.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:1.8
SM/Hg:
BOD-5:

IR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.22
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N / NO2-N	Si	CHL-a
0.	19.45	18.02	11.99						
5.	19.01	18.02	12.09		0.99		0.28	1.07	0.91
10.	18.81	18.00	12.12						
15.	18.78	18.00	12.13		0.06		0.10	1.07	
20.	17.84	18.04	12.36	6.25					
25.	13.63	18.16	13.28		0.04		0.25	2.18	
30.	11.14	18.14	13.67	6.32					
40.	8.28	18.17	14.06		0.03		0.63	4.08	0.48
50.	7.51	18.28	14.23	6.29	0.04		0.59	5.01	0.70
60.	7.29	18.41	14.36		0.10		0.83	5.50	0.26
70.	7.37	18.71	14.58						
75.	7.40	18.86	14.70	4.06					
80.	7.47	19.06	14.84		0.30	-11	3.04	16.47	
90.	7.61	19.44	15.13						
100.	7.79	19.81	15.39						
101.				0.83					
109.				0.35	1.09	-11	5.23	39.41	
114.				0.34	1.13	-11	5.57	47.29	
120.				0.26	1.13	-11	5.76	48.24	
125.	8.22	20.55	15.92	0.19	1.49	-11	2.66	57.06	
130.				0.14	1.54	-11	1.78	60.47	
149.				0.00	2.36	0.09	1.57	62.59	
150.	8.42	20.88	16.16		5.93	0.16	-11	71.18	
200.	8.66	21.35	16.50	0.00					
250.	8.74	21.56	16.65		5.00	0.68	-11	98.12	
300.	8.77	21.65	16.72						
					4.87	0.75		117.88	

STATION NUMBER: L50T45
TOTAL DEPTH: 2500.0 m.

DATE:22-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:18:25
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.45'
LATITUDE:41.50'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.58
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	20.08	18.25	12.03		0.05		0.28	1.45	1.12
5.	19.04	18.19	12.21						
10.	18.59	18.16	12.29						
15.	18.49	18.16	12.31						
20.	17.09	18.15	12.61	5.99	0.07		0.10	1.46	1.02
25.	15.20	18.26	13.07						
30.	11.27	18.50	13.91	6.19	0.04		0.11	1.81	
40.	7.50	18.40	14.33		0.04		0.41	4.03	
50.	7.35	18.42	14.35	6.69	0.14		1.40	7.59	
60.	7.35	18.69	14.57						
70.	7.53	19.25	14.99	5.99					
75.	7.65	19.53	15.19						
80.	7.74	19.70	15.31	1.78	0.58	-11	5.36	31.77	
90.	7.90	20.02	15.55	1.09	0.78	-11	6.61	35.88	
100.	8.01	20.20	15.67	0.21	0.81	-11	5.89	50.59	
105.				0.20	0.90	-11	2.35	56.47	
110.				0.21	1.15		2.25	57.53	
120.				0.07	1.91	0.12	1.04	63.53	
125.	8.31	20.69	16.03						
130.				0.00	2.54		0.89	64.71	
140.				0.00	3.63	0.20	0.12	71.76	
150.	8.51	21.04	16.27	0.00	4.91	0.38	-11	76.47	
200.	8.69	21.42	16.55	0.00	5.23	0.77	-11	102.35	
250.	8.75	21.60	16.68						
300.	8.80	21.74	16.79		6.21	1.56		136.47	
400.	8.83	21.93	16.93		6.56	1.76		138.24	
500.	8.84	22.05	17.02		6.63	3.25		186.47	

STATION NUMBER: M30145
TOTAL DEPTH: 2093.0 m.

DATE:23-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:02:15
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.45'
LATITUDE:42.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:0.7
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.53
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	19.52	18.23	12.13						
5.	19.51	18.23	12.14		0.05		0.08	2.38	
10.	19.26	18.26	12.21						
15.	19.22	18.25	12.22						
20.	19.19	18.25	12.22	5.97					
25.	13.58	18.46	13.52		0.07		0.11	2.12	
30.	8.48	18.26	14.10						
40.	7.45	18.36	14.30						
50.	7.24	18.53	14.45	5.94					
60.	7.45	18.97	14.77		0.12		1.46	7.69	
70.	7.67	19.56	15.21						
75.	7.83	19.89	15.45						
80.	7.94	20.10	15.60	0.30					
90.	8.15	20.43	15.84	0.25	0.44		8.19	42.94	
100.	8.28	20.63	15.98	0.23	1.10		5.46	50.00	
110.				0.08	1.36	-11	2.87	56.47	
120.				0.00	1.58	-11	0.17	62.71	
125.	8.46	20.95	16.21		4.55	-11	0.31	70.59	
130.				0.00					
140.					4.78	-11	0.06	74.82	
150.	8.59	21.19	16.38		4.88	0.30	0.06	77.06	
160.					5.04	0.39	-11	83.53	
170.					5.04	0.47	-11	89.06	
180.					5.07	0.49	-11	93.65	
200.	8.71	21.47	16.59		5.11	0.90	-11	99.88	
250.	8.77	21.65	16.72		5.23	1.75		107.65	
300.	8.80	21.77	16.81						
400.	8.83	21.94	16.93		5.93	2.62		140.00	
500.	8.84	22.05	17.02		6.25	3.70		169.71	
600.	8.84	22.13	17.09		6.54	5.40		178.24	
700.	8.84	22.19	17.13						
750.									
800.	8.85	22.23	17.16		7.42			197.06	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.30	17.21		7.65			252.94	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.88	22.32	17.22						
					8.01			279.41	

STATION NUMBER: M50T45
TOTAL DEPTH: 2200.0 m.

DATE:23-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:22:00
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.45'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	21.30	18.40	11.85						
5.	20.11	18.30	12.05		0.09		0.65	2.69	
10.	19.47	18.25	12.16						
15.	19.26	18.23	12.19						
20.	18.24	18.24	12.43	6.59					
25.	10.45	18.38	13.95		0.23		0.12	3.34	
30.	7.83	18.34	14.24						
40.	7.20	18.40	14.35						
50.	7.35	18.78	14.64	4.30					
60.	7.53	19.30	15.03	2.17	0.34		0.74	5.31	
70.	7.75	19.80	15.39		0.97		3.40	15.29	
75.	7.87	20.00	15.53						
80.	7.94	20.11	15.62	0.42	0.57		7.59	27.65	
90.	8.10	20.35	15.78	0.25	0.60	-11	8.49	42.35	
95.				0.18					
100.	8.24	20.56	15.93	0.15	0.61	-11	4.59	55.18	
105.				0.11	1.46	-11	3.53	55.88	
111.				0.10	1.56	-11	1.85	59.53	
115.				0.11	2.11	-11	1.29	61.72	
120.				0.03	3.16	-11	1.14	61.88	
125.	8.44	20.92	16.19		3.10	-11	0.21	66.35	
130.									
141.					4.84	0.15	0.12	66.47	
150.	8.57	21.15	16.35		4.92	0.36	-11	77.18	
160.									
180.					4.96	0.65		89.59	
200.	8.71	21.46	16.58		5.29	0.86		96.47	
250.	8.77	21.65	16.71		5.82	1.70		107.06	
300.	8.80	21.78	16.82						
400.	8.83	21.95	16.94		6.23	2.64		140.82	
500.	8.84	22.05	17.02		6.64	3.55		171.76	
600.	8.84	22.13	17.08		7.62	5.34		200.59	
700.	8.84	22.19	17.13						
750.									
800.	8.85	22.23	17.16		8.01			252.94	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21		8.14			278.82	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.89	22.32	17.22						
1600.	21.30	18.40	11.85		8.63			290.71	
1700.	21.30	18.40	11.85						
1800.	21.30	18.40	11.85						
1900.	21.30	18.40	11.85						
1962.									
2000.	21.30	18.40	11.85		8.66			310.42	

STATION NUMBER: N10T45
TOTAL DEPTH: 2183.0 m.

DATE:24-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:02:10
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.45'
LATITUDE:43.10'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.50
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	20.60	18.37	11.98		0.04		0.04	1.84	
5.	20.59	18.37	11.98						
10.	20.39	18.37	12.03						
15.	20.27	18.37	12.06						
20.	19.16	18.42	12.35	6.73	0.06		0.15	3.10	0.98
25.	10.89	18.44	13.93						
30.	7.90	18.29	14.19						
40.	7.26	18.36	14.32						
50.	7.26	18.52	14.44	5.08	0.18		1.99	10.63	0.31
60.	7.43	19.07	14.86						
70.	7.69	19.64	15.27						
75.	7.79	19.83	15.41	0.64	0.62		8.49		
80.	7.91	20.03	15.55	0.54	0.64		7.63	42.94	
90.	8.08	20.31	15.75	0.18	0.80		5.59	51.88	
95.				0.25	1.06		4.31	53.53	
100.	8.23	20.55	15.93	0.18	1.45		3.02	56.47	
105.				0.11	1.45		1.72	61.18	
110.				0.06	2.46		1.00	65.88	
115.				0.06	4.33		0.19	68.35	
120.				0.00	4.84		0.19	70.59	
125.	8.48	20.95	16.21						
130.					4.86		0.10	80.00	
140.					5.04		0.08	88.24	
150.	8.58	21.16	16.36						
160.					5.27		0.06	97.65	
180.					5.54		-11	105.88	
200.	8.72	21.48	16.59		5.56		-11	141.65	
250.	8.77	21.65	16.72						
300.	8.81	21.78	16.81		5.87			169.77	
400.	8.83	21.94	16.93		6.32			198.82	
500.	8.84	22.04	17.02		6.83			250.11	
600.	8.84	22.13	17.08						
700.	8.84	22.19	17.13						
750.					7.26			276.47	
800.	8.85	22.23	17.16						
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20		7.78			296.47	
1100.	8.87	22.29	17.21						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						
1600.	20.46	18.37	12.02		8.14			312.45	
1700.	20.46	18.37	12.02						
1800.	20.46	18.37	12.02						
1900.	20.46	18.37	12.02						
1950.					8.35			81.18	

STATION NUMBER: L10V45
TOTAL DEPTH: 1443.0 m.

DATE:19-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:15:30
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:37.45'
LATITUDE:41.10'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	21.33	17.95	11.48						
5.	20.65	18.05	11.73						
10.	19.48	18.12	12.06						
15.	17.92	18.13	12.42						
20.	13.22	18.22	13.39						
25.	9.76	18.16	13.87						
30.	8.71	18.17	14.01						
40.	7.62	18.23	14.18						
50.	7.44	18.28	14.24						
60.	7.33	18.47	14.39						
70.	7.39	18.76	14.62	4.48					
75.	7.41	18.82	14.66						
80.	7.49	19.09	14.86	3.18					
90.	7.62	19.42	15.11	2.25					
100.	7.71	19.62	15.26	1.37					
110.				1.41					
125.	8.18	20.48	15.88						
130.				0.19					
140.				0.04					
150.	8.48	20.98	16.23						
200.	8.65	21.33	16.48						
250.	8.74	21.54	16.64						
300.	8.78	21.69	16.74						
400.	8.83	21.91	16.91						
500.	8.84	22.03	17.01						
600.	8.84	22.12	17.07						
700.	8.84	22.18	17.12						
800.	8.85	22.22	17.16						
900.	8.86	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21						
1200.	8.88	22.30	17.21						
1300.	8.88	22.31	17.22						

STATION NUMBER: L30V45
TOTAL DEPTH: 1840.0 m.

DATE:19-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:1.2
SM/Hg:
BOD-5:

TIME:18:05
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:37.45'
LATITUDE:41.30'
WIND:
WIND DIRECTION:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	21.06	18.31	11.83						
5.	21.37	18.27	11.72		0.06		0.09	3.54	
10.	21.32	18.26	11.73						
15.	21.19	18.26	11.76						
20.	12.19	18.25	13.61						
25.	9.06	18.31	14.08		0.14		0.12	3.21	
30.	8.08	18.31	14.19						
40.	7.33	18.36	14.31						
50.	7.20	18.47	14.41	1.09					
60.	7.38	18.99	14.80		0.16		0.41	40.23	
70.	7.58	19.46	15.14	0.53					
75.	7.66	19.61	15.26		0.66		3.12	45.93	
80.	7.75	19.79	15.39	0.20					
90.	7.95	20.12	15.62	0.17	0.69		5.57	53.49	
100.	8.13	20.40	15.82	0.16	1.19		7.95	54.65	
110.				0.10	1.55		3.29	60.70	
125.	8.37	20.80	16.10	0.00	2.93		0.53	66.86	
150.	8.51	21.04	16.27	0.00	4.10		0.47	85.47	
175.					4.14	-11	-11	90.70	
200.	8.68	21.39	16.52		4.82	1.05	-11	101.86	
250.	8.76	21.62	16.69		5.07	1.08	-11	162.79	
300.	8.80	21.74	16.79						
400.	8.83	21.93	16.93		5.23	1.36		193.60	
500.	8.84	22.04	17.01		6.11	2.78		199.42	
600.	8.84	22.12	17.08		6.26	5.60		230.81	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.23	17.16		6.31	6.65		265.12	
900.	8.86	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21			7.42			
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.89	22.32	17.22						
1512.					6.67	7.42		283.72	

STATION NUMBER: M50V15
TOTAL DEPTH: 2100.0 m.

DATE:23-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:21:00
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:37.15'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	17.84	18.11	12.42						
5.	17.40	18.15	12.54						
10.	16.68	18.12	12.67						
15.	16.41	18.12	12.73						
20.	14.80	18.20	13.10	6.85					
25.	10.29	18.29	13.90						
30.	7.57	18.32	14.25						
40.	7.25	18.38	14.33						
50.	7.33	18.73	14.60	4.73					
60.	7.46	19.19	14.94	2.81					
70.	7.64	19.57	15.22	1.52					
75.	7.70	19.69	15.31	0.93		-11			
80.	7.82	19.89	15.46	0.43		0.18			
85.				0.29		0.27			
90.	8.00	20.18	15.66	0.24		0.29			
95.				0.23		0.51			
100.	8.14	20.41	15.83	0.14		0.63			
110.				0.09		1.12			
120.				0.02		1.13			
125.	8.40	20.83	16.12			1.18			
150.	8.56	21.12	16.33						
200.	8.71	21.46	16.58						
250.	8.77	21.64	16.71						
300.	8.80	21.77	16.81						
400.	8.83	21.93	16.93						
500.	8.84	22.05	17.02						
600.	8.84	22.13	17.08						
700.	8.84	22.19	17.13						
800.	8.85	22.23	17.16						
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.30	17.21						
1200.	8.87	22.31	17.22						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.88	22.32	17.22						

STATION NUMBER: L10X45
TOTAL DEPTH: 860.0 m.

DATE:15-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:1.2
SM/Hg:
BOD-5:

TIME:13:00
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:39.45'
LATITUDE:41.10'
WIND:
WIND DIRECTION:

TSS:1.09
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	22.06	18.13	11.44						
5.	22.06	18.13	11.44		0.03		0.04	1.74	0.70
10.	22.05	18.14	11.45						
15.	22.01	18.14	11.46						
20.	21.99	18.15	11.47	6.25					
25.	20.10	18.11	11.91		0.05		0.17	2.66	0.44
30.	13.11	18.26	13.47						
40.	9.42	18.15	13.91	6.22					
50.	8.07	18.19	14.10	6.15					0.29
60.	7.50	18.27	14.22	6.06	0.05		0.93	4.98	
70.	7.20	18.37	14.33	5.65					
75.	7.23	18.44	14.39		0.15		1.30	6.76	
80.	7.30	18.59	14.50	5.64					
90.	7.46	19.03	14.82	5.25					
100.	7.55	19.38	15.09						
125.	8.00	20.18	15.67	2.62	0.25		1.59	9.46	
150.	8.39	20.81	16.11	0.60	0.54	-11	4.25	23.26	
200.	8.63	21.27	16.44			-11			
250.	8.73	21.52	16.62						
300.	8.78	21.69	16.75		3.90	0.17		64.54	
350.									
400.	8.82	21.89	16.90		4.74	0.84		97.44	
500.	8.84	22.01	16.99						
600.	8.84	22.12	17.07						
					5.72	1.52		166.51	

STATION NUMBER: L30X45
TOTAL DEPTH: 1946.0 m.

DATE:15-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:22:30
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:39.45'
LATITUDE:41.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:3.4
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.42
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	St-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	23.25	17.87	10.94		0.06		0.25	1.25	1.08
5.	23.29	17.83	10.89						
10.	23.30	17.82	10.88						
15.	23.22	17.89	10.95						
20.	20.11	18.56	12.23	6.18	0.20		0.53	1.12	
25.	14.11	18.55	13.50						
30.	10.54	18.60	14.11						
40.	8.32	18.29	14.15						
50.	7.39	18.44	14.37	5.38	0.11		1.00	5.94	
60.	7.32	18.65	14.54						
70.	7.41	18.98	14.79						
75.	7.52	19.17	14.92	2.83	0.27		1.94	27.09	
80.	7.56	19.40	15.10						
90.	7.74	19.73	15.34						
100.	7.90	20.02	15.55	0.55	0.31		4.02	42.91	
110.				0.14	1.64		1.36	61.63	
120.				0.13	2.42	-11	0.49	65.70	
125.	8.30	20.63	15.98						
130.				0.09	3.36	-11	0.34	69.07	
150.	8.50	21.00	16.24		4.19	0.40	0.00	77.56	
200.	8.67	21.36	16.51		4.25	1.27	0.00	76.74	
250.	8.75	21.59	16.68						
300.	8.79	21.74	16.78		4.49	3.01		70.93	
400.	8.83	21.92	16.92		4.50	4.04		165.81	
500.	8.84	22.04	17.01						
600.	8.84	22.12	17.08						
700.	8.84	22.18	17.12						
750.					4.69	5.61		198.26	
800.	8.85	22.22	17.16						
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20		5.05	5.83		249.53	
1100.	8.87	22.29	17.21						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.88	22.32	17.22						
1745.					6.74	8.07		272.09	

STATION NUMBER: L10Y15
TOTAL DEPTH: 960.0 m.

DATE:16-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:07:45
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:40.15'
LATITUDE:41.10'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	23.41	17.75	10.80						
5.	23.41	17.75	10.80						
10.	23.41	17.75	10.80						
15.	23.22	17.82	10.90						
20.	19.99	17.96	11.81	6.29					
25.	15.68	17.96	12.75						
30.	13.58	17.99	13.16						
40.	10.00	18.13	13.81						
50.	8.10	18.24	14.14	5.45					
60.	7.45	18.35	14.29						
70.	7.32	18.53	14.45						
75.	7.34	18.75	14.61	5.25					
80.	7.37	18.84	14.68						
90.	7.52	19.29	15.02						
100.	7.73	19.74	15.35	3.78					
125.	8.15	20.41	15.83	3.46		-11			
150.	8.37	20.77	16.08	0.51					
175.				0.09		-11			
200.	8.63	21.25	16.43			0.06			
250.	8.73	21.53	16.63			0.79			
300.	8.78	21.69	16.75						
400.	8.83	21.90	16.91			1.52			
500.	8.84	22.02	17.00			2.70			
600.	8.84	22.11	17.07			3.48			
700.	8.84	22.18	17.12						
800.	8.85	22.22	17.15			5.16			
900.	8.86	22.25	17.18						
1000.	8.86	22.28	17.19						
1100.	8.87	22.29	17.21			6.62			
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						

STATION NUMBER: L10Y45
TOTAL DEPTH: 960.0 m.

DATE:16-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:11:45
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:40.45'
LATITUDE:41.10'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:1.3
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.14
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	23.23	17.75	10.85						
5.	23.24	17.81	10.89		0.08		0.09	1.56	1.53
10.	23.27	17.85	10.91						
15.	23.27	17.85	10.91						
20.	23.29	17.87	10.92						
25.	23.22	17.87	10.94		0.08		1.10	5.22	1.08
30.	22.42	17.93	11.20						
40.	12.03	18.16	13.56						
50.	8.94	18.21	14.01	6.26					
60.	7.90	18.25	14.16		0.14		1.29	2.12	0.27
70.	7.46	18.34	14.28						
75.	7.32	18.44	14.37	5.21					
80.	7.35	18.60	14.50		0.19		3.06	2.49	
90.	7.38	18.87	14.71						
100.	7.50	19.25	14.99	4.77					
125.	7.94	20.10	15.61	0.93	0.35	-11	3.25	3.37	
150.	8.31	20.68	16.01	0.09	0.70	0.06	5.51	17.44	
175.				0.00	0.84	0.06	5.76	19.88	
200.	8.59	21.19	16.38	0.00	0.94	0.23	0.10	43.72	
250.	8.71	21.48	16.59		1.17	0.34		65.70	
300.	8.77	21.66	16.72						
400.	8.82	21.89	16.90		5.39			74.88	
500.	8.84	22.03	17.00		5.72	2.58		158.14	
600.	8.84	22.10	17.06		5.97	3.70		193.26	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.23	17.16		7.42	5.61		249.30	
920.	8.86	22.26	17.18		7.78	6.50		268.02	

STATION NUMBER: L30Y45
TOTAL DEPTH: 1760.0 m.

DATE:16-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:20:50
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:40.45'
LATITUDE:41.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	23.31	17.86	10.91						
5.	23.38	17.86	10.89		0.04		0.89	1.61	
10.	23.38	17.86	10.89						
15.	23.17	17.85	10.94						
20.	17.95	18.20	12.46	6.58	0.05		0.23	3.18	
25.	13.12	18.18	13.38						
30.	10.87	18.01	13.60						
40.	8.40	18.09	13.98						
50.	7.56	18.12	14.10	5.13	-11		0.30	3.36	
60.	7.16	18.17	14.17						
70.	7.08	18.24	14.24						
75.	7.09	18.27	14.26	5.05	0.10		1.26	4.80	
80.	7.07	18.30	14.29						
90.	7.11	18.41	14.37						
100.	7.27	18.67	14.56	5.00	0.56	-11	5.34	10.68	
120.				2.64	0.88	-11	7.70	23.26	
125.	7.58	19.45	15.13						
140.				0.60	0.82	-11	4.44	40.70	
150.	7.94	20.10	15.61						
160.				0.15	1.09	0.17	1.93	58.14	
180.				0.02	4.31	0.23	0.31	73.84	
200.	8.57	21.14	16.35	0.00	4.68	0.68	-11	82.09	
250.	8.70	21.44	16.56						
300.	8.78	21.67	16.74	0.00	4.76	1.58	-11	126.16	
400.	8.82	21.89	16.89		5.26	2.58		158.14	
500.	8.84	22.02	16.99						
501.					5.70	3.48		187.91	
600.	8.84	22.11	17.07						
700.	8.84	22.18	17.12						
750.					5.72	4.20		245.93	
800.	8.85	22.22	17.15						
900.	8.85	22.25	17.18						
1000.	8.86	22.27	17.19		7.09	6.84		275.23	
1100.	8.87	22.29	17.20						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.89	22.32	17.22						
1503.					7.16	7.68		295.55	
1600.	23.31	17.86	10.91						
1700.	23.31	17.86	10.91						
1735.					7.55	8.07		302.80	

STATION NUMBER: L30Z15
TOTAL DEPTH: 1173.0 m.

DATE:16-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:10:05
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:41.15'
LATITUDE:41.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	23.48	17.85	10.85						
5.	23.39	17.86	10.88		0.16			1.35	
10.	23.28	17.85	10.91						
15.	23.26	17.86	10.92						
20.	23.22	17.87	10.94	6.35					
25.	21.48	18.27	11.69		0.04		0.20	1.40	
30.	14.41	18.49	13.39						
40.	10.20	18.27	13.90						
50.	8.35	18.19	14.07	6.32					
60.	7.49	18.36	14.30		0.01		0.70	1.74	
70.	7.28	18.34	14.30						
74.				5.24					
75.	7.25	18.37	14.33		0.13	-11	2.31	4.24	
80.	7.27	18.42	14.36						
90.	7.29	18.61	14.51						
100.	7.44	19.06	14.85	3.10					
120.				0.76	0.62	-11	4.14	5.29	
125.	7.89	19.99	15.52		0.74	-11	3.68	20.35	
140.				0.17					
150.	8.31	20.66	16.00		0.78	0.06	2.78	38.37	
160.				0.04					
180.				0.00	2.76	0.06	0.59	53.95	
200.	8.61	21.23	16.41		3.04	0.34		68.61	
202.				0.00					
249.					3.14	0.68		77.91	
250.	8.73	21.51	16.61		3.36	1.13		86.63	
300.	8.78	21.68	16.74						
400.	8.82	21.89	16.90		3.82	1.34		106.51	
402.									
500.	8.84	22.02	17.00		4.68	2.58		127.44	
600.	8.84	22.12	17.07		5.89	3.82		163.02	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.23	17.16		6.68	7.23		225.58	
900.	8.86	22.26	17.18						
1000.	8.86	22.28	17.20		6.93			279.07	

STATION NUMBER: H10X45
TOTAL DEPTH: 1986.0 m.

DATE:17-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:11:00
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHAROCTER
LONGITUDE:39.45'
LATITUDE:42.10'
WIND:
WIND DIRECTION:

O3:
SD/Hg:
SW/Hg:1.8
SN/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SN/Cd:
COD:

TSS:1.03
SD/Pb:
SW/Pb:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	22.74	17.87	11.07						
5.	22.74	17.89	11.08		-11		0.19	2.07	0.82
10.	22.73	17.87	11.07						
15.	22.71	17.88	11.08						
20.	22.13	18.07	11.37						
25.	16.41	18.47	12.99		-11		0.37	2.72	1.54
30.	12.87	18.66	13.79						
40.	7.79	18.41	14.30						
50.	7.23	18.36	14.32	6.63					
60.	7.28	18.52	14.44		0.07		1.06	4.96	0.42
70.	7.43	18.96	14.77						
75.	7.53	19.30	15.02	2.43					
80.	7.66	19.52	15.19		0.53		3.02	27.91	
90.	7.83	19.89	15.45						
100.	7.99	20.16	15.64	0.48					
120.					0.58	-11	4.49	41.86	
125.	8.28	20.64	15.99	0.23	0.74	-11	2.78	54.07	
140.									
150.	8.48	20.98	16.23	0.24	0.78	-11	2.10	55.12	
160.									
180.				0.08	1.93	0.12	0.27	65.12	
200.	8.67	21.37	16.51	0.00	3.24	0.23	0.06	75.85	
250.	8.75	21.56	16.65	0.00	3.73	0.68	-11	92.44	
300.	8.79	21.71	16.76						
400.	8.83	21.91	16.91		4.53	0.96		130.81	
500.	8.84	22.03	17.00		5.46	1.69		162.79	
501.									
600.	8.84	22.11	17.07		5.59	3.64		190.12	
700.	8.84	22.17	17.12						
757.									
800.	8.84	22.22	17.15		5.72	5.50		244.19	
860.									
900.	8.85	22.25	17.18		6.31			261.05	
1000.	8.86	22.28	17.19						
1001.									
1100.	8.87	22.29	17.21		7.36	6.40		267.91	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						
1600.	22.73	17.84	11.05		7.45	7.51		298.09	
1620.									
					6.90			302.29	

STATION NUMBER: 150X45
TOTAL DEPTH: 1760.0 m.

DATE:17-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:06:45
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:39.45'
LATITUDE:41.50'
WIND:
WIND DIRECTION:

DS:
SD/Hg:
SW/Hg:0.5
SH/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SH/Cd:
COD:

TSS:0.05
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N / NO2-N	Si	CHL-a
0.	22.97	17.86	11.00						
5.	23.06	17.87	10.98		0.05		0.27	1.45	1.33
10.	23.08	17.87	10.98						
15.	23.08	17.88	10.98						
20.	23.07	17.89	10.98	5.32					
25.	20.37	18.00	11.76		0.16		2.25	6.04	1.24
30.	14.04	18.12	13.18						
40.	8.64	18.19	14.04						
50.	7.52	18.29	14.23	6.18					
60.	7.29	18.44	14.37		0.27		3.29	4.11	0.24
70.	7.35	18.84	14.68						
75.	7.44	19.08	14.87	3.28					
80.	7.54	19.36	15.07		0.57		5.46	18.61	
90.	7.69	19.67	15.30						
100.	7.81	19.89	15.45	0.49					
120.				0.10	0.60		6.10	42.56	
125.	8.28	20.62	15.98		1.30		2.00	58.61	
140.				0.05					
150.	8.50	21.03	16.26		4.53		1.27	72.67	
160.				0.00					
180.				0.00	3.75	0.57	0.04	73.61	
200.	8.69	21.42	16.55		3.77	0.57		92.56	
250.	8.75	21.58	16.67		4.38	0.73		99.30	
300.	8.79	21.71	16.76						
400.	8.82	21.88	16.89		4.55	2.30		130.93	
500.	8.84	22.01	16.99		5.30	2.36		158.14	
501.									
600.	8.84	22.11	17.07			2.92		187.79	
700.	8.84	22.17	17.12						
750.									
800.	8.85	22.22	17.15		6.54	3.14		244.53	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.19		7.52	3.26		278.49	
1100.	8.87	22.29	17.21						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						
1600.	22.97	17.86	11.00		7.16	4.49		298.09	
1700.	22.97	17.86	11.00						
1800.	22.97	17.86	11.00						
1900.	22.97	17.86	11.00						
					6.31	5.61		308.09	

STATION NUMBER: L30X15
TOTAL DEPTH: 1960.0 m.

DATE:18-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:02:10
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:39.15'
LATITUDE:41.30'
WIND:
WIND DIRECTION:

OS:
SD/Ha:
SW/Ha:
SM/Ha:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:1.70
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	ST-T	DO	PO4-P	H2S	NO3-N / NO2-N	Si	CHL-a
0.	21.58	18.12	11.56						
5.	22.39	18.05	11.29		-11		0.03	0.37	
10.	22.46	18.05	11.27						
15.	21.30	18.13	11.63						
20.	13.79	18.35	13.41		0.03		0.24	3.31	
25.	9.70	18.20	13.91						
30.	8.29	18.21	14.09						
40.	7.67	18.28	14.21						
50.	7.31	18.38	14.33		0.04		0.32	6.76	
60.	7.35	18.58	14.48						
70.	7.43	18.90	14.72		0.51		3.51	23.07	
75.	7.52	19.25	14.98						
80.	7.62	19.47	15.15		0.80		4.23	32.56	
90.	7.81	19.87	15.44		0.76		5.59	39.54	
100.	8.01	20.20	15.68		0.78		3.38	45.35	
120.					0.62		1.36	60.47	
125.	8.34	20.73	16.06						
140.					3.04		0.53	70.47	
150.	8.49	21.01	16.25						
160.					3.30		0.50	79.65	
180.					4.09			88.95	
200.	8.68	21.39	16.53		4.16			96.51	
250.	8.76	21.60	16.68						
300.	8.80	21.75	16.79		4.28			133.72	
400.	8.83	21.93	16.93		4.42			148.26	
500.	8.84	22.04	17.01		5.70			163.49	
600.	8.84	22.11	17.07						
700.	8.84	22.17	17.12						
750.					5.75			194.19	
800.	8.85	22.22	17.15						
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20		6.52			244.77	
1100.	8.87	22.29	17.20						
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22		7.16			253.84	
1600.	21.58	18.12	11.56						
1700.	21.58	18.12	11.56						
1800.	21.58	18.12	11.56						
1900.	21.58	18.12	11.56						
1916.					7.98			273.95	

STATION NUMBER: H10X15
TOTAL DEPTH: 2046.0 m.

DATE:17-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

OS:
SD/Hg:
SM/Hg:0.3
SM/Hg:
BOD-5:

TIME:16:55
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHARACTER
LONGITUDE:39.15'
LATITUDE:42.10'
WIND:
WIND DIRECTION:

TSS:2.10
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	22.75	18.00	11.16						
5.	22.04	18.02	11.36		0.06		0.09	1.99	
10.	21.79	18.03	11.43						
15.	21.78	18.05	11.45						
20.	15.05	18.64	13.40	7.70					
25.	10.41	18.35	13.93		0.03		0.05	2.61	
30.	8.89	18.37	14.14						
40.	7.39	18.35	14.30						
50.	7.25	18.49	14.42	4.90					
60.	7.41	18.92	14.74		0.11		1.14	11.20	
70.	7.59	19.37	15.07	1.35					
75.	7.66	19.54	15.20		0.52		4.10	31.40	
80.	7.75	19.72	15.33	0.61					
90.	7.94	20.09	15.60	0.46	0.82		4.06	40.12	
100.	8.13	20.39	15.81	0.34	0.86		4.72	46.99	
120.				0.11	0.91		3.12	54.65	
125.	8.41	20.84	16.13		1.02		2.49	62.21	
140.									
150.	8.56	21.12	16.33		2.46		0.40	51.74	
160.									
180.					3.43		0.40	83.72	
200.	8.70	21.43	16.56		3.73		0.17	92.44	
250.	8.76	21.63	16.70		4.08		-11	98.84	
300.	8.80	21.76	16.80						
400.	8.83	21.93	16.93		4.61			138.37	
401.									
500.	8.84	22.04	17.01		5.49			168.72	
501.									
600.	8.84	22.13	17.09		5.85			197.91	
700.	8.84	22.19	17.13						
751.									
800.	8.85	22.23	17.16		6.96			248.26	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21		6.18			273.14	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.88	22.32	17.22						
					6.93			300.25	

STATION NUMBER: H30V45
TOTAL DEPTH: 2153.0 m.

DATE:20-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:05:08
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:37.45'
LATITUDE:42.30'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:0.64
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	20.20	18.21	11.96						
5.	20.91	18.20	11.78		0.05		0.41	1.40	
10.	20.90	18.21	11.79						
15.	20.03	18.21	12.00						
20.	16.30	18.25	12.85	6.83					
25.	13.25	18.24	13.41		0.08		0.17	3.15	
30.	8.55	18.35	14.17						
40.	7.20	18.45	14.40						
50.	7.31	18.80	14.66	5.77					
60.	7.46	19.18	14.94		0.09		1.05	7.85	
70.	7.65	19.58	15.23	5.48					
75.	7.73	19.74	15.35		0.13		0.29	8.98	
80.	7.83	19.90	15.46	3.18					
90.	8.01	20.19	15.67	0.46	0.76	-11	3.59	24.88	
100.	8.19	20.47	15.87	0.31	0.93	-11	8.78	37.67	
110.				0.15	1.09	-11	3.68	46.98	
120.					1.44	0.08	1.59	52.33	
125.	8.43	20.87	16.15						
130.				0.07					
150.	8.58	21.16	16.36		1.50	0.08	0.42	58.84	
170.									
200.	8.70	21.43	16.56		4.45	0.92	-11	71.51	
250.	8.77	21.62	16.70		4.77	1.27	-11	85.70	
300.	8.80	21.75	16.80						
400.	8.83	21.93	16.93		4.92	1.50		85.58	
500.	8.84	22.04	17.02		5.29	3.91		163.37	
600.	8.84	22.13	17.08		6.08	5.25		193.72	
700.	8.84	22.19	17.13						
750.									
800.	8.85	22.23	17.16		6.11	6.08		245.93	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.19						
1100.	8.87	22.29	17.21		6.21	8.58		273.26	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						
1501.									
1600.	20.20	18.21	11.96		6.47	10.00			
1700.	20.20	18.21	11.96						
1750.					6.70	10.75			

STATION NUMBER: H50V45
TOTAL DEPTH: 2156.0 m.

DATE:23-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

DS:
SD/Hg:
SW/Hg:0.4
SM/Hg:
BOD-5:

TIME:12:35
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

CHAROCTER
LONGITUDE:37.45'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

TSS:0.66
SD/PH:
SW/PH:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	Si	CHL-a
0.	18.87	18.29	12.33						
5.	18.97	18.18	12.22		0.04		0.15	3.10	0.37
10.	18.75	18.16	12.26	6.31					
15.	17.45	18.15	12.53		0.06		0.10	2.95	0.56
20.	16.55	18.13	12.71	6.94					
25.	10.92	18.20	13.81		0.07		0.21	3.46	0.98
30.	7.99	18.32	14.21	6.66					
40.	7.29	18.36	14.31		0.07		0.29		1.22
50.	7.31	18.67	14.56	4.35					
60.	7.49	19.21	14.96		0.09		2.42	14.00	1.33
70.	7.72	19.72	15.34	0.79					
75.	7.83	19.94	15.49		0.19		8.19	38.71	
80.	7.92	20.08	15.59	0.42					
90.	8.04	20.28	15.73	0.29	0.27		7.55	42.29	
95.				0.26	1.04	-11	5.89	50.59	
100.	8.22	20.52	15.90	0.18	1.07	-11	4.70	54.12	
105.				0.09	1.31	-11	2.83	58.24	
110.				0.00	1.37	-11	1.51	58.82	
115.				0.00	1.50	-11	1.40	62.94	
120.				0.00	1.51	-11		64.12	
125.	8.47	20.95	16.21	0.00	3.38	-11		67.41	
130.				0.00	4.87	0.30		70.00	
150.	8.57	21.14	16.34	0.00	5.31	0.57		71.76	
200.	8.70	21.44	16.56	0.00	5.35	0.59		84.12	
250.	8.76	21.63	16.71		5.59	0.72		99.41	
300.	8.80	21.77	16.81						
400.	8.83	21.93	16.93		6.09	1.73		138.24	
500.	8.84	22.04	17.01		6.31	2.54		168.82	
600.	8.84	22.12	17.07		7.01	3.45		195.29	
700.	8.84	22.18	17.12						
750.									
800.	8.84	22.22	17.15		7.44	5.41		247.65	
900.	8.85	22.25	17.18						
1000.	8.86	22.28	17.20						
1100.	8.86	22.29	17.21		7.70	6.36		276.35	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.88	22.32	17.22						
1600.	18.87	18.29	12.33		7.98	6.55		288.24	
1700.	18.87	18.29	12.33						
1800.	18.87	18.29	12.33						
1900.	18.87	18.29	12.33						
1980.									
					8.50	7.64		308.26	

STATION NUMBER: HU045
TOTAL DEPTH: 1800.0 m.

DATE:22-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:22:15
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:36.45°
LATITUDE:42.10°
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SH/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SH/Cd:
COD:

ISS:0.62
SD/TH:
SW/TH:
TC/0m.:
TC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N + NO2-N	SI	CHL-a
0.	18.77	18.21	12.29						
5.	18.61	18.19	12.31		0.06		0.08	4.29	0.54
10.	18.46	18.17	12.33						
15.	18.29	18.17	12.36						
20.	17.99	18.16	12.43	6.38					
25.	15.17	18.38	13.17		0.05		0.13	3.05	0.53
30.	8.51	18.49	14.29						
40.	7.41	18.44	14.36						
50.	7.19	18.45	14.39	6.41					
60.	7.37	18.75	14.61		0.05		0.73	31.69	0.25
70.	7.62	19.47	15.15						
73.				0.77					
75.	7.74	19.70	15.32		0.59		7.89	45.80	
80.	7.85	19.89	15.45						
89.				0.34					
90.	8.04	20.23	15.70		1.07	-11	5.61	51.18	
99.				0.25					
100.	8.14	20.40	15.82		0.59	11	2.42	56.47	
111.				0.13					
120.				0.14	1.87	-11	1.40	62.35	
125.	8.41	20.85	16.13		3.86	-11	1.68	65.18	
130.				0.00					
140.				0.00	3.92		0.19	72.94	
148.					4.84	0.08	-11	77.65	
150.	8.54	21.11	16.32		4.92	0.15	-11	79.41	
159.									
172.					5.00	0.47		87.06	
180.					5.15	0.60		91.76	
200.	8.70	21.45	16.57		5.21	0.79		96.47	
250.	8.77	21.63	16.70		5.69	0.82		104.12	
300.	8.80	21.75	16.79						
400.	8.83	21.92	16.92		6.29	1.54		139.76	
500.	8.84	22.03	17.00		5.69	1.67		168.24	
600.	8.84	22.12	17.07		7.03	3.37		196.47	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.23	17.16		7.49			250.12	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.30	17.21		7.16			266.35	
1200.	8.88	22.31	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.89	22.32	17.22						
1600.	18.77	18.21	12.29		7.36			298.73	
1700.	18.77	18.21	12.29						
1800.	18.77	18.21	12.29						
					8.53			303.01	

STATION NUMBER: H10S15
TOTAL DEPTH: 2210.0 m.

DATE:24-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

OS:
SD/Hg:
SW/Hg:3.3
SH/Hg:
BOD-5:

TIME:15:05
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

IR:
SD/Cd:
SW/Cd:
SH/Cd:
COD:

CHARACTER
LONGITUDE:35.15'
LATITUDE:43.10'
WIND:
WIND DIRECTION:

ISS:0.94
SD/Fe:
SW/Fe:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N / NO2-N	Si	CHL-a
0.	20.11	18.21	11.97						
5.	19.81	18.15	12.01		0.14		2.14	2.92	0.59
10.	19.60	18.15	12.05						
15.	19.39	18.18	12.13						
20.	18.51	18.19	12.33	6.17					
25.	11.10	18.33	13.82		0.05		0.19	11.87	0.90
30.	7.90	18.31	14.23	6.61					
40.	7.22	18.38	14.34		0.04		0.37	38.82	0.94
50.	7.25	18.64	14.54	4.93					
60.	7.58	19.45	15.14		0.09		1.41	42.71	0.36
70.	7.76	19.80	15.39	0.33					
75.	7.86	19.95	15.50		0.14		8.91	45.88	
80.	7.95	20.11	15.61	0.25	0.31		8.68	46.59	
85.				0.16	0.44	-11	7.08	51.29	
90.	8.14	20.38	15.81	0.09	1.09	-11	5.51	53.53	
95.				0.09	1.29	-11	5.21	56.47	
100.	8.27	20.61	15.97	0.10	1.47	-11	3.31	56.47	
111.				0.08	1.65	0.02	1.40	58.59	
121.				0.00	2.46	0.02	0.70	67.75	
125.	8.50	21.00	16.24		4.06	0.13	0.12	71.88	
130.									
140.					4.92	0.22	0.04	72.00	
150.	8.61	21.22	16.40		4.92	0.28	-11	79.53	
161.									
181.					4.94	0.31	-11	82.94	
200.	8.71	21.49	16.60		5.05	0.61		92.00	
250.	8.78	21.67	16.73		5.35	0.83		100.00	
300.	8.81	21.79	16.82						
400.	8.83	21.94	16.94		5.58	0.93		109.94	
500.	8.84	22.05	17.02		5.99	1.77		142.94	
600.	8.84	22.13	17.08		6.05	2.70		169.41	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.23	17.16		6.54	3.72		197.05	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21		7.52			248.82	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.32	17.22						
1500.	8.89	22.32	17.23						
1600.	20.11	18.21	11.97						
1700.	20.11	18.21	11.97						
1800.	20.11	18.21	11.97						
1850.									
					8.01			276.59	

STATION NUMBER: M50S15
TOTAL DEPTH: 2200.0 m.

DATE:24-09-90
BAROMETRIC PRESSURE:
CLOUD:
SECCHI DISK DEPTH:

TIME:20:15
AIR TEMPERATURE:
WAVE STATE:
VISIBILITY:

CHARACTER
LONGITUDE:35.15'
LATITUDE:42.50'
WIND:
WIND DIRECTION:

OS:
SD/Hg:
SW/Hg:
SM/Hg:
BOD-5:

TR:
SD/Cd:
SW/Cd:
SM/Cd:
COD:

TSS:
SD/Pb:
SW/Pb:
FC/0m.:
FC/2m.:

DEPTH	T	S	SI-T	DO	PO4-P	H2S	NO3-N / NO2-N	SI	CHL-a
0.	19.52	18.32	12.20						
5.	19.52	18.32	12.20		0.06		0.11	3.31	
10.	19.45	18.32	12.22						
15.	18.80	18.32	12.36						
20.	18.61	18.32	12.41	5.95					
25.	15.47	18.34	13.08		0.04		0.15	3.15	
30.	7.64	18.37	14.30						
40.	7.20	18.39	14.35						
50.	7.33	18.80	14.66	4.90					
60.	7.53	19.36	15.07	2.27	0.25		3.08	11.25	
70.	7.70	19.69	15.31	2.03	0.40		4.91	17.41	
75.	7.85	19.95	15.50		0.72	-11	7.85	26.47	
80.	7.97	20.14	15.63	0.24					
90.	8.16	20.44	15.85	0.14	0.95	-11	7.55	44.82	
100.	8.33	20.71	16.04	0.03	1.07	-11	3.46	55.41	
110.				0.00	1.40	-11	0.27	63.06	
120.				0.00	4.59	0.07	0.14	69.42	
125.	8.50	21.01	16.25		4.66	0.15	-11	74.82	
140.				0.00					
150.	8.60	21.23	16.41		4.86	0.46	-11	82.71	
160.				0.00					
180.				0.00	5.04	0.61	-11	88.47	
200.	8.71	21.48	16.60		5.10	0.69	-11	96.47	
250.	8.77	21.65	16.72		5.23	0.82		98.24	
300.	8.80	21.77	16.81						
400.	8.83	21.94	16.93		5.50	1.65		139.41	
500.	8.84	22.05	17.02		6.18	2.66		168.24	
600.	8.84	22.13	17.08		6.52	3.55		196.00	
700.	8.84	22.18	17.12						
750.									
800.	8.85	22.22	17.16		7.16			245.88	
900.	8.85	22.26	17.18						
1000.	8.86	22.28	17.20						
1100.	8.87	22.29	17.21		7.75			274.12	
1200.	8.87	22.30	17.21						
1300.	8.88	22.31	17.22						
1400.	8.88	22.31	17.22						
1500.	8.88	22.32	17.22						
1600.	19.51	18.32	12.21		8.01			294.71	
1700.	19.51	18.32	12.21						
1800.	19.51	18.32	12.21						
1900.	19.51	18.32	12.21						
					8.37			310.80	