

2001-237



ULUSAL DENİZ ÖLÇME VE İZLEME PROGRAMI

MARMARA DENİZİ ALT PROJESİ

1989 YILLIK RAPORU

Proje No: DEBÇAG-60/G



**DENİZ ARAŞTIRMA ENSTİTÜSÜ**

Orta Doğu Teknik

Üniversitesi

İÇEL

ULUSAL DENİZ ÖLÇME VE İZLEME PROGRAMI

MARMARA DENİZİ ALT PROJESİ

1989 YILLIK RAPORU

Proje No: DEBÇAG-60/G

Destekleyen Kuruluş

TÜBİTAK DENİZ BİLİMLERİ  
VE  
ÇEVRE ARAŞTIRMALARI GRUBU

ORTA DOĞU TEKNİK ÜNİVERSİTESİ  
DENİZ BİLİMLERİ ENSTİTÜSÜ  
P.K. 28, 33731  
Erdemli-İÇEL  
Aralık, 1990

## ÖNSÖZ

Ulusal Deniz Ölçüm ve İzleme Programı-Marmara Denizi Alt Projesi (DEBÇAG-60/G) çerçevesinde Türk Boğazlar Sistemi'ni oluşturan Marmara Denizi ve Boğazlarında 1989 yılı içerisinde ölçülen temel oşinografik ve biyokimyasal parametrelerin mevsimsel bazda değişimleri bu rapor kapsamında sunulmuştur.

Ülkemizi çevreleyen denizlerimizle 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.

## İÇİNDEKİLER

	<u>Sayfa No</u>
ÖNSÖZ.....	i
İÇİNDEKİLER.....	ii
I. GİRİŞ.....	1
II. 1989 DÖNEMİ BULGULARININ DEĞERLENDİRİLMESİ.....	2
II.1. Biyokimyasal ve Fiziksel Bulgular.....	2
II.2. Kirletici Parametreler.....	4
ÇİZELGELER.....	6
ŞEKİLLER.....	112

## I. GİRİŞ

Türkiye Bilimsel ve Teknik Araştırma Kurumu (TÜBİTAK) tarafından desteklenen "Ulusal Deniz Ölçüm ve İzleme Programı-Marmara Denizi Alt Projesi (DEBÇAG-60/G) kapsamında 1989 yılı içinde Marmara Denizi ve Boğazlarının dinamiğini kontrol eden etkenlerin belirlenmesi, Marmara 'yı çevreleyen koy ve körfezlerin mevcut kirlilik durumlarının tespiti ve bu denizimizin biyokimyasal karakterlerinin bilimsel bazda tanımlanması yönünde toplam 3 saha çalışması yapılmıştır. Bu saha çalışmalarının birincisi Şubat, ikincisi Mart, Üçüncüsü ise Eylül, 1989 aylarında ODTÜ-DBE'ne ait R/V Bilim gemisiyle yapılmıştır.

Bu çalışmalarda, biyokimyasal parametreler olarak besin tuzlarından *orto*-fosfat ( $o-PO_4-P$ ), Toplam Oksitlenmiş Azot ( $TNO_2-N$ ), molibdat reaktif Silikat ( $Si(OH)_3-Si$ ), suda çözülmüş halde bulunan organik maddeler (DOC) ve klorofil-a (CHLL-a); kirletici parametreler olarak ta Hüyük Maddeler (HM), Toplam Askıda Katı Maddeler (TAK), suda çözülmüş/disperse olmuş Poliaromatik Petrol Hidrokarbonları (PAH) ve suda Toplam Civa ( $Hg_w$ ) ölçümleri yapılmıştır. Bu parametrelerin tanımlanmasında kullanılan birimler ve kısaltmalar Çizelge-1'de sunulmuştur.

Yukarıda adı geçen biyokimyasal parametreler ile ilgili 1987-1988 dönemine ait saha bulgularının değerlendirilmesi ve yorumlanması Temmuz, 1989 da yıllık rapor olarak TÜBİTAK-DEBÇAG grubuna sunulmuştu. Şubat, Mart ve Eylül, 1989 dönemlerinde ölçüm ve izleme çalışmalarının yapıldığı istasyonlar, örnekleme derinlikleri ile beraber, sırası ile, Çizelge-2, Çizelge-3 ve Çizelge-4'te; ölçümlerin yapıldığı istasyonların yer ve kod numaraları ise Şekil-1, Şekil-2 ve Şekil-3'te gösterilmiştir. Şekil 4-6'da ise tuzluluk, sıcaklık ve çözülmüş oksijenin ölçümlerinin yapıldığı istasyonların yerleri gösterilmektedir.

Şekil 1-6'da konumları verilen istasyonlar, üç ana grup altında toplanabilirler. Bunlar, sırası ile, nehir deşarjları ile evsel ve endüstriyel atıksular gibi kara kökenli kirletici kaynakların doğrudan etkisi altında kalan bölgelerdeki istasyonlar; kıta sahanlığı üzerinde bulunan fakat karasal kaynaklardan dolaylı olarak etkilenen kıyı istasyonları; toplam su derinliği 200 metreden daha fazla olan açık-deniz istasyonlarıdır. Birinci grupta İzmit (İst.M5 ve M6), Gemlik (İst.M17 ve M18) ve Bandırma (İst.M31, M32) körfezlerindeki istasyonlar sayılabilir.

1989 yılı I. Dönemine ait fiziksel ve kimyasal bulgular IBM disketlerinde I. Dönem Bulgu Raporu kapsamında TÜBİTAK-DEBÇAG grubuna daha önce sunulmuştu. Söz konusu Bulgu Raporu kapsamında verilmeyen Eylül, 1989 bulguları bu rapor kapsamında disketler halinde sunulmuştur.

## II. 1989 DÖNEMİ BULGULARININ DEĞERLENDİRİLMESİ

### II.1. BİYOKİMYASAL VE FİZİKSEL BULGULAR:

"Ulusal Deniz Ölçüm ve İzleme Programı- Marmara Denizi Alt Projesi (DEBÇAG-60/G) kapsamında 1989 yılı içinde ölçümü yapılan kimyasal bulgular, Şubat, 1989 dönemi için Çizelge-5, Mart, 1989 için Çizelge-6 ve Eylül, 1989 dönemi için ise Çizelge-7'de sunulmuştur. Aynı dönemler içinde yerinde ölçümü yapılan tuzluluk, sıcaklık ve çözünmüş oksijen değerleri ise, sırası ile, Çizelge-8, Çizelge-9 ve Çizelge-10'da istasyon bazında, standart derinliklerde sunulmuştur.

Çizelgelerin incelenmesinden, bir geçiş denizi özelliği gösteren Marmara Denizi üst tabaka sularının kalınlığının mevsimsel ölçekte değiştiği, kış sonuna doğru (Şubat-Mart) hakim rüzgarların sebep olduğu düşey karışım sonucunda, üst tabaka sularının tuzluluğunun yaz dönemine (22-23 ppt) oranla

arttığı (24-26 ppt) görülmektedir. Marmara Denizi alt tabaka sularının ( >150m ) ise mevsimsel değişikliklerden etkilenmediği, nisbeten sabit sıcaklıkta (14.40-14.50 °C) ve tuzlulukta (=38.55) olduğu aynı çizelgelerin incelenmesinden anlaşılmaktadır.

Alt tabaka suları içinde ve bilhassa birincil yoğunluk (primary pycnocline) tabakalaşmasının hemen altında yer alan su kütlesi içinde önemli miktarlarda bakteriyolojik parçalanmaya uğrayan karasal ve denizsel kaynaklı organik maddeler, anorganik bileşenlerine ve daha fazla bakteriyolojik parçalanmaya dirençli organik maddelere dönüşmektedir. Organik maddenin bakteriyolojik parçalanması esnasında ise suda çözülmüş halde bulunan oksijen tüketilmekte, zaman zaman tehlike sınırlarının altına inebilmektedir.

Şekil-7'de Marmara'nın doğu baseni üzerinde bulunan M9 nolu istasyonda 1989 döneminde farklı aylarda ölçülen oksijen profilleri verilmiştir. Bu profillerin incelenmesinden, Ağustos, 1989'da yoğunluk tabakalaşmasının hemen altında bulunan suların 0.5 mg/l den daha az oksijen içerdiği görülmektedir. Aynı dönemde derin suların içerdiği oksijen miktarı 1.0 mg/l'den fazladır. Yaz döneminin sonlarında esmeye başlayan kuvvetli poyraz rüzgarları, yoğunluk arakesitinin karaya doğru yükselmesine ve bu bölgenin tabanına yakın yaşayan bentik ve demersal canlıların oksijeni çok az olan bu tabaka sularının etkisinde kalmasına ve dolayısıyla oksijensizlikten ölmelerine neden olmuştur. Şiddetli esen bu rüzgarların olumlu etkisi ise arakesit üzerinde yarattığı karışımdan dolayı oksijeni 0.5 mg/l'ye düşmüş bulunan suların yeniden oksijenlenmesidir. Ekim, 1989 da bölgede ölçülen oksijen değerlerinden (bkz. Şek.7) anlaşılmaktadır.

Yaz dönemi boyunca alt tabaka suları içinde birikime uğrayan besin tuzları, kış dönemlerinde dikey karışımlarla üst tabaka sularına geri gönderilmektedir. Bu artışlar Çizelge-5 ve

Çizelge-6'dan kolayca görülebilmektedir. Bunun sonucunda, fotik bölge sularının besin tuzu konsantrasyonları artmakta ve bahar döneminde planktonların kullanılmasına hazır hale getirilmektedir.

Marmara Denizi derin basenleri boyunca besin tuzlarının düşey değişimleri Şubat, Mart ve Eylül, 1989 dönemleri için Şekil-8 de gösterilmiştir. Besin tuzlarının düşey değişimlerinin incelenmesinden, üst tabaka sularının (0-30m) içerdiği besin tuzu miktarlarının mevsimsel ölçekte değiştiği görülmektedir. Alt tabaka sularının içerdiği besin tuzu miktarları ise derine doğru gidildikçe artmaktadır. Marmara Denizi alt tabaka suları 1.2-1.4  $\mu\text{M}$  fosfat iyonu, 9.0-11.0  $\mu\text{M}$   $\text{TNO}_x\text{-N}$  ve 45-50  $\mu\text{M}$  silikat içermektedir. Bu tabaka sularına en önemli besin tuzu girdisi üst tabaka içinde planktonlarca oluşturulan partikül haldeki organik maddeler ile, bu tabakaya değişik karakterdeki atıksuların getirdiği organik maddeler yoluyla olmaktadır.

Marmara Denizi'nin Çanakkale Boğazı ile birleştiği bölgede ise (İst. M46), bölge sularının dinamik yapısına bağlı olarak meydana gelen yatay ve düşey karışımlar süreklilik gösterebilmekte, buna bağlı olarak Marmara Denizi derin basenleri boyunca gözlenen besin tuzlarının iki tabakalı yapısı nisbeten daha az belirgin olmaktadır. Şubat, 1989 döneminde görüldüğü gibi tüm su kolonu besin elementleri açısından homojen bir yapı gösterebilmektedir.

## II.2. KİRLETİCİ PARAMETRELER

1989 yılı Ulusal Oşinografi Programı kapsamında Marmara Denizi'ni çevreleyen, potansiyel kirletici ve kirletilmiş bölgeler olarak bilinen İzmit, Gemlik ve Bandırma Körfezleri ile turizm faaliyetlerinin yoğun olduğu Erdek Körfezi sularında HM, TAK, PAH ve Hg<sub>w</sub> ölçümleri yapılmış, elde edilen değerler derlenerek Çizelge-11-13'te sunulmuştur.



Çizelgelerin incelenmesinden, fosfat iyonu açısından en fazla kirletilmiş körfezin Bandırma Körfezi olduğu görülmektedir. Şubat, 1989 döneminde Marmara Denizi Üst tabaka sularının içerdiği  $PO_4-P$  miktarı 0.3-0.4  $\mu M$  mertebesinde iken, Bandırma Körfezi'nde bu değer 6.77  $\mu M$ , İzmit Körfezi'nde ise 0.80  $\mu M$  olarak bulunmuştur. 1987-1988 döneminde yapılan ölçümlerde de, aynı körfezlerin fosfat iyonu bakımından en fazla kirletilmiş bölgeler olduğu belirtilmişti. Her iki körfez sularının tüm izleme çalışmalarında yüksek miktarlarda fosfat iyonu içermesi, bu bölge sularının çevrede kurulu gübre fabrikalarının atıksularından fazlasıyla etkilendiğini, bu bölgelerdeki su hareketlerinin sınırlı ve yenilenme zamanının uzun olmasından kaynaklandığı düşünülmektedir. En yüksek civa değerlerine (Şubat ayında 12.8 ng/l; Mart ayında ise 8.6 ng/l) yine bu körfezlerde rastlanılması tesadüf değildir.

Geçmiş dönemlerde yapılan çalışmalarda azotlu bileşiklerce kirletildiği belirlenen Gemlik Körfezi'nin 1989 dönemi içinde Marmara Denizi genelinden farklı değerler göstermediği, ölçülen değerlerin mevsim normalleri içinde bulunduğu anlaşılmıştır. Bu azalmanın nedeni, tam olarak bilinmemekle beraber, körfeze yapılan atıksu deşarjlarındaki azalmadan veya körfez sularının 1989 yılı içinde daha etkin olarak yenilenebilmesi olabilir.

Çizelge 1: Marmara Denizi'nde Ulusal Deniz Ölçme ve İzleme Programı kapsamında izlenen kimyasal parametreler

Parametre	Sembol	Birim	Analiz Yöntemi
<b>Besin Tuzları:</b>			
orto-fosfat fosforu	O-PO <sub>4</sub> -P	µg-at P/l	1
Toplam Oksitlenmiş Azot (NO <sub>3</sub> <sup>-</sup> +NO <sub>2</sub> <sup>-</sup> )	TO <sub>x</sub> N-N	µg-at N/l	1
Molibdat Reaktif Silikat	Si(OH) <sub>3</sub> -Si	µg-at Si/l	1
Çözünmüş Organik Karbon	DOC	mg C/l	1
Suda Çözünmüş Oksijen	DO	mg O <sub>2</sub> /l	2
Klorofil-a	CHLL-a	mg/m <sup>3</sup>	3
Birincil Üretim <sup>(*)</sup>	PP	mg C/m <sup>2</sup> /gün	3
Toplam Askıda Katı Madde	TAK	mg/l	4
Poliaromatik Petrol Hidrokarbonları	PAH	µg/l	5
Suda Toplam Civa	Hg <sub>w</sub>	ng/l	6

(\*) Klorofil-a ölçüm değerleri ve ışık şiddeti değerleri kullanılarak hesaplanmıştır

(1) Technicon Autoanalyzer II sistemi ve kolorimetrik yöntem kullanılarak

(2) Standard Winkler yöntemi kullanılarak

(3) Spektrofotometrik yöntemi kullanılarak

(4) 0,45 µm göz açıklı cam elyafli filtre kağıdından süzülerek gravimetrik yöntem kullanılarak

(5) Genelde n-hekzan ile ekstre edildikten sonra fluorimetrik yöntem kullanılarak

(6) Atomik Soğurma-Soğuk buhar yöntemi kullanılarak

ŞİZELGE 2. Şubat, 1989 Döneminde Marmara Denizi ve Boğazlarında Ölçülen biyokimyasal parametreler ve ölçüm aralıkları

İstasyon No	PARAMETRELER								
	HM	σ-PO <sub>4</sub> -P	TNO <sub>3</sub> -N	Si	DOC	CHLL-A	TAK	PAH	Hg <sub>2</sub>
M2	P	P	P	P	Y,AKD	-	Y	Y,AKD	P
M3	Y	Y	Y	Y	-	-	Y	Y	Y
M5	Y,AKD	Y,AKD	Y,AKD	Y,AKD	Y,AKD	-	Y,AKD	Y	Y
K4	Y	Y	Y	Y	Y	-	Y	Y	Y
M7	Y	Y	Y	Y	Y	-	Y	Y	Y
M8	Y	Y	Y	Y	Y	-	Y	Y	Y
M9	P	P	P	P	P	P	P	Y	Y
M10	P	P	P	P	P	P	P	-	Y
M11	Y	Y	Y	Y	Y	-	Y	Y	Y
M12	Y	Y	Y	Y	Y	-	Y	Y	Y
M13	Y	Y	Y	Y	Y	-	Y	Y	Y
M14	P	P	P	P	P	P	Y	Y	Y
M15	P	P	P	P	P	Y	Y	Y	Y
M16	Y	Y	Y	Y	Y	-	Y	Y	Y
M17	Y,AKD	Y,AKD	Y,AKD	Y	-	-	Y,AKD	Y,AKD	Y,AKD
M18	Y	Y	Y	Y	Y	-	Y	Y	Y
M19	Y	Y	Y	Y	Y	-	Y	Y	Y
M20	Y	Y	Y	Y	Y	-	Y	Y	Y
M21	Y	Y	Y	Y	Y	-	Y	-	-
M22	Y	Y	Y	Y	Y	-	Y	Y	Y
M24	P	P	P	P	P	Y	Y	Y	Y
M25	Y	Y	Y	Y	Y	-	Y	-	Y
M26	Y	Y	Y	Y	Y	-	Y	Y	Y
M27	P	P	P	P	P	P	Y	Y	Y
M28	P	P	P	P	P	-	Y	Y	Y
M29	P	P	P	P	P	Y	Y	Y	Y
M30	Y	Y	Y	Y	Y	-	Y	Y	Y
M31	Y	Y	Y	Y	Y	-	Y	Y	Y
M32	Y	Y	Y	Y	Y	-	Y	Y	Y
M33	P	P	P	P	P	Y	Y	-	Y
M37	P	P	P	P	P	P	Y	Y	-
M38	P	P	P	P	P	-	Y	Y	-
M39	P	P	P	P	P	P	Y	-	Y
M40	P	P	P	P	P	-	Y	-	Y
M41	Y	Y	Y	Y	Y	-	Y	Y	Y
M42	Y	Y	Y	Y	Y	-	Y	Y	Y
M43	Y	Y	Y	Y	Y	-	Y	Y	Y
M44	P	P	P	P	P	-	Y	Y	Y
M45	P	P	P	P	P	-	Y	Y	Y
M46	P	P	P	P	P	-	Y	Y	Y
C0	P	P	P	P	P	Y	Y	Y	Y
E14	Y	Y	Y	Y	Y	-	Y	-	-

Y: Yüzey suyunda analizi yapılanlar  
P: Su kolonunda analizi yapılanlar  
-: Örnekleme yapılmadı

ÇİZELGE 3.: Mart, 1989 Döneminde Marmara Denizi ve Boğazlarında Ölçülen biyokimyasal parametreler ve ölçüm aralıkları

İstasyon No	PARAMETRELER								
	HM	o-PO <sub>4</sub> -P	TNO <sub>x</sub> -N	Si	DOC	CHLL-A	TAK	PAH	Hg <sub>w</sub>
M2	P	P	P	P	P	-	Y	Y	Y
M3	P	P	P	P	P	P	Y	Y	Y
M5	Y	Y	Y	Y	Y	-	Y	Y	Y
M6	Y	Y	Y	Y	Y	-	Y	-	-
M7	Y	Y	Y	Y	Y	-	Y	Y	-
M8	Y	Y	Y	Y	Y	-	-	-	-
M9	P	P	P	P	P	P	Y, AKD	Y, AKD	-
M11	Y	Y	Y	Y	Y	-	Y	-	-
M12	Y	Y	Y	Y	Y	-	-	-	Y
M13	Y	Y	Y	Y	Y	-	-	-	Y
M14	Y	Y	Y	Y	Y	-	Y	-	-
M15	P	P	P	P	P	Y	Y	Y	Y
M16	Y	Y	Y	Y	Y	-	-	-	-
M17	P	P	P	P	P	Y	Y	-	Y
M18	Y	Y	Y	Y	Y	-	Y	Y	-
M19	Y	Y	Y	Y	Y	-	-	-	-
M20	Y	Y	Y	Y	Y	-	Y	Y	-
M21	Y	Y	Y	Y	Y	-	-	-	-
M22	Y	Y	Y	Y	Y	-	Y	Y	-
M23	Y	Y	Y	Y	Y	-	-	-	Y
M24	P	P	P	P	P	Y	Y	Y	-
M25	Y	Y	Y	Y	Y	-	Y	Y	-
M26	Y	Y	Y	Y	Y	-	Y	Y	-
M27	P	P	P	P	P	-	Y	-	Y
M28	P	P	P	P	P	P	-	Y	-
M29	P	P	P	P	P	Y	Y	-	-
M30	Y	Y	Y	Y	Y	-	-	-	-
M31	Y	Y	Y	Y	Y	-	-	Y	Y
M32	Y, AKD	Y, AKD	Y, AKD	Y, AKD	Y, AKD	-	-	-	Y
M34	P	P	P	P	P	P	Y	Y	-
M35	P	P	P	P	P	-	Y	-	-
M36	Y	Y	Y	Y	Y	-	Y	Y	Y
M37	P	P	P	P	P	-	Y	Y	-
M39	P	P	P	P	P	-	Y	Y	Y
M40	Y	Y	Y	Y	Y	-	Y	Y	-
M41	Y	Y	Y	Y	Y	-	-	-	-
M42	Y	Y	Y	Y	Y	-	Y	-	-
M43	Y	Y	Y	Y	Y	-	Y	-	-
M44	P	P	P	P	P	Y	-	-	Y

ÇİZELGE 3 : (Devam)

İstasyon No	PARAMETRELER								
	HM	o-PO <sub>4</sub> -P	TNO <sub>x</sub> -N	Si	DOC	CHLL-A	TAK	PAH	Hg <sub>2</sub>
M45	P	P	P	P	P	-	-	-	-
M46	P	P	P	P	P	P	Y	Y	Y
G22	P	P	P	P	P	-	Y	-	-
G0	P	P	P	P	P	-	Y	Y	Y
E14	Y	Y	Y	Y	Y	-	Y	Y	-

Y ; Yüzey suyunda analizi yapılanlar

P ; Su kolonunda analizi yapılanlar

- ; Örnekleme yapılmadı

AKD; Akdeniz kökenli suyun ilk ölçüldüğü derinlikten

ÇİZELGE 4: Eylül, 1989 Döneminde Marmara Denizi ve Boğazlarında ölçülen biyokimyasal parametreler ve bunların örnekleme aralığı

İstasyon No	PARAMETRELER								
	HM	o-PQ <sub>4</sub> -P	TNO <sub>2</sub> -N	Si	DOC	CHLL-A	TAK	PAH	Hg <sub>w</sub>
M2	P	P	P	P	P	-	Y	Y,AKD	P
M3	P	P	P	P	P	-	Y	Y	Y
M5	P	P	P	P	P	-	Y,AKD	Y	Y
M6	P	P	P	P	P	-	Y,AKD	Y	Y
M7	Y	Y	Y	Y	Y	-	Y	Y	Y
M8	Y	Y	Y	Y	Y	-	Y	Y	Y
M9	P	P	P	P	P	P	Y,AKD	Y	Y
M10	P	P	P	P	P	P	Y	Y	Y
M11	-	P	P	-	-	-	Y	-	-
M12	Y	Y	Y	Y	Y	-	Y	Y	Y
M13	Y	Y	Y	Y	Y	-	Y	Y	Y
M14	-	-	-	Y	-	P	Y	Y	Y
M15	P	P	P	P	P	-	Y	Y	Y
M16	Y	Y	Y	Y	Y	-	Y	Y	Y
M17	P	P	P	P	P	-	Y	Y	Y
M18	Y	-	-	Y	Y	-	Y	Y	Y
M19	Y	Y	Y	Y	Y	-	Y	Y	Y
M20	Y	Y	Y	Y	Y	-	Y	Y	Y
M21	Y	Y	Y	Y	Y	-	Y	Y	Y
M22	Y	Y	Y	Y	Y	-	Y	Y	Y
M24	P	P	P	P	P	-	Y	Y	Y
M25	Y	Y	Y	Y	Y	-	Y	Y	Y
M26	Y	Y	Y	Y	Y	-	Y	Y	Y
M27	P	P	P	P	P	P	P	Y	P
M28	Y	Y	Y	Y	Y	-	Y	Y	Y
M29	P	P	P	P	P	-	Y	Y	Y
M30	Y	Y	Y	Y	Y	-	Y	Y	Y
M31	Y	Y	Y	Y	Y	-	Y	Y	Y
M32	P	P	P	P	P	-	Y,AKD	Y	Y
M33	Y	Y	Y	Y	Y	-	Y	Y	Y
M34	Y	Y	Y	Y	Y	-	Y	Y	Y
M35	P	P	P	P	P	P	P	Y	P
M36	Y	Y	Y	Y	Y	-	Y	Y	Y
M37	Y	Y	Y	Y	Y	-	Y	Y	Y
M38	Y,AKD	Y,AKD	Y,AKD	Y,AKD	Y,AKD	-	Y,AKD	Y,AKD	Y
M39	Y	Y	Y	Y	Y	-	Y	Y	Y
M40	Y	Y	Y	Y	Y	-	Y	Y	Y
M41	Y	Y	Y	Y	Y	-	Y	Y	Y
M42	Y	Y	Y	Y	Y	-	Y	Y	Y
M43	Y	Y	Y	Y	Y	-	Y	Y	Y

Y ; Yüzey suyunda analizi yapılanlar  
P ; Su kolonunda analizi yapılanlar  
- ; Örnekleme yapılmadı  
AKD; Akdeniz kökenli suyun ilk ölçüldüğü derinlikten

ÇİZELGE 4: (Devam)

İstasyon No	PARAMETRELER								
	HM	$\sigma$ -PO <sub>4</sub> -P	TNO <sub>3</sub> -N	Si	ODC	CHLL-A	TAK	PAH	Hg <sub>2</sub>
E14	P	P	P	P	P	-	Y	Y	Y
C7	P	P	P	P	P	P	Y	Y	P
C0	P	P	P	P	P	P	P	Y	P
D6	P	P	P	P	P	-	Y	Y	Y

Y ; Yüzey suyunda analizi yapılanlar

P ; Su kolonunda analizi yapılanlar

- ; Örnekleme yapılmadı

AKD; Akdeniz kökenli suyun ilk ölçüldüğü derinlikten

ÇİZELGE-5: ŞUBAT, 1989 DÖNEMİNDE MARMARA DENİZİ VE BOĞAZLARI  
BOYUNCA STANDARD DERİNLİKLERDE ÖLÇÜLEN  
BİYOKİMYASAL PARAMETRELERİN DEĞİŞİMİ



STATION NUMBER: M-5  
 TOTAL DEPTH: 70.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 01:10  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE:  
 LATITUDE:  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SI/Cd:

TSS: 4.06  
 SD/PH:  
 SM/PH: 0.81  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	P04-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.92	22.70	17.76	11.02	1.03	0.43	1.14	6.54	2.00	
5.	6.99	22.82	17.84	11.56						
10.	8.46	25.47	19.74	11.00						
15.	8.76	26.49	20.50	9.52						
60.	8.76	26.49	20.50	9.52	0.59	1.34	10.74		1.08	

STATION NUMBER: 11-7  
 TOTAL DEPTH: 300.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 09:45  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.52°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SI/Cd:

TSS: 1.42  
 SD/PH:  
 SM/PH: 0.67  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	P04-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.94	24.26	18.98	7.29	0.75	0.39	0.11	3.95	2.26	
5.	6.93	24.29	19.00	10.70						

STATION NUMBER: 11-8  
 TOTAL DEPTH: 300.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 09:45  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.52°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 8.5  
 SI/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SI/Cd:

TSS: 1.70  
 SD/PH:  
 SM/PH: 0.80  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	P04-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.94	24.26	18.98	7.29	0.82	0.30	0.12	4.12		

STATION NUMBER: M-9  
 TOTAL DEPTH: 1200.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

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

CHARACTER  
 LONGITUDE: 29. 0'  
 LATITUDE: 40.46'  
 WIND:  
 WIND DIRECTION:

QS:  
 SD/Hg:  
 SW/Hg: 7.2  
 SM/Hg:  
 BOD-5:

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

TSS: 1.66  
 SD/PH:  
 SW/PH: 0.84  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	INH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.90	23.91	18.71	10.51	0.81	0.47	0.11	4.71	1.97	4.92
5.	6.90	23.92	18.72	11.32						
10.	6.86	24.29	19.01	11.96	0.80	0.40	0.11	4.47	2.03	
15.	6.91	24.51	19.18	11.97						
20.	8.46	26.50	20.55	11.04	0.84	0.28	0.12	4.93		4.44
25.	10.44	29.73	22.77	9.62						
30.	14.15	36.15	27.05	7.05	0.61	0.58	2.93	15.84	1.15	2.10
40.	14.96	38.29	28.52	3.36						
50.	14.94	38.46	28.66	2.26	0.37	1.30	10.90	33.09		
60.	14.91	38.50	28.70	2.31						
70.	14.88	38.54	28.73	1.99						
75.	14.86	38.55	28.75	1.87	0.65	1.17	7.76	26.93		
80.	14.84	38.56	28.76	1.76						
90.	14.82	38.56	28.77	1.70						
100.	14.79	38.57	28.78	1.77	0.58	1.33	10.81	35.83		
125.	14.71	38.57	28.80	1.34						
150.	14.61	38.56	28.81	1.22	0.76	1.39	9.10	46.79		
200.	14.49	38.55	28.83	.98						
250.	14.42	38.54	28.84	.75	0.56	1.38	11.10	46.84		
300.	14.40	38.54	28.85	.81						
350.	14.40	38.54	28.85	.81	0.78	1.36	10.77	47.96	0.59	
400.	14.39	38.53	28.85	1.03						
450.	14.39	38.53	28.85	1.10	0.52	1.29	10.38	47.61	0.56	
500.	14.40	38.53	28.85	1.18						
550.	14.40	38.53	28.85	1.23	0.45	1.36	11.08	41.31	0.53	
600.	14.41	38.54	28.85	1.28						
650.	14.41	38.54	28.85	1.29	0.56	1.32	10.15	45.55		
700.	14.42	38.54	28.86	1.30						
800.	14.44	38.54	28.86	1.53	0.58	1.25	10.00	44.60		
900.	14.46	38.54	28.86	1.60		1.25	10.01	43.70	0.60	
1100.	14.46	38.54	28.86	1.62	0.54	1.25	9.82	43.22		
1200.	14.48	38.54	28.86	1.62	0.57	1.14	9.73	42.40		

STATION NUMBER: M-12	SEASON:	
TOTAL DEPTH: 59.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 15-02-89	TIME: 00:00	LONGITUDE: 28.34'
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.57'
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 1.08
SD/Hg:	SD/Cd:	SD/PH:
SM/Hg: 4.8	SM/Cd:	SM/PH: 1.12
SH/Hg:	SH/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	HM	P04-P	NO3-N +	Si	TOC	CHL-a NO2-N
0.	7.30	23.63	18.45	11.43	0.65	0.38	0.38	5.45	1.78	
5.	7.44	23.47	18.31	10.82						

STATION NUMBER: M-13	SEASON:	
TOTAL DEPTH: 820.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 15-02-89	TIME: 19:55	LONGITUDE: 28.40'
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.50'
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 3.92
SD/Hg:	SD/Cd:	SD/PH:
SM/Hg: 7.7	SM/Cd:	SM/PH: 0.87
SH/Hg:	SH/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	HM	P04-P	NO3-N +	Si	TOC	CHL-a NO2-N
0.	6.99	23.62	18.47	11.90	0.78	0.58	0.12	3.79	1.85	
5.	6.99	23.62	18.47	12.18						

STATION NUMBER: H-14  
 TOTAL DEPTH: 850.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 10:05  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.40°  
 LATITUDE: 40.45°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 0.5  
 SH/Hg:  
 SDD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 3.35  
 SD/PH:  
 SM/PH: 0.99  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.72	24.61	19.27	9.95	0.67	0.60	0.11	3.59	2.29	9.57
5.	6.99	23.61	18.46	12.45						
10.	7.16	23.78	18.58	12.98						
15.	7.02	24.47	19.14	12.60						
20.	8.11	26.35	20.48	11.75						
25.	14.38	36.86	27.55	9.02	0.54	1.16	8.08	20.49		1.01
30.	14.92	38.00	28.31	4.48						
40.	14.97	38.34	28.56	2.68						
50.	14.96	38.44	28.64	2.29	0.73	1.39	10.46	31.58		0.90
60.	14.96	38.48	28.67	2.20						
70.	14.93	38.51	28.70	1.73						
75.	14.92	38.53	28.72	1.92	0.37	1.38	10.99	32.00	0.65	
80.	14.89	38.54	28.73	1.82						
90.	14.85	38.55	28.75	1.86						
100.	14.80	38.56	28.77	1.69	0.45	1.40	11.11	36.10	0.62	
125.	14.74	38.57	28.79	1.49						
150.	14.69	38.57	28.81	1.33						
200.	14.54	38.56	28.83	1.09	0.50	1.42	11.55	42.95	0.60	
250.	14.46	38.54	28.84	.89						
300.	14.42	38.54	28.84	.85	0.70	1.36	11.12	48.43	0.61	
400.	14.40	38.54	28.85	1.01	0.47	1.18	10.45	47.89	0.58	
500.	14.40	38.54	28.85	1.11	0.56	1.38	10.25	46.84	0.58	
600.	14.42	38.54	28.86	1.40	0.47	1.28	9.16	44.32		
700.	14.42	38.54	28.86	1.60	0.32	1.26	9.52	41.17	0.55	

STATION NUMBER: H-15  
 TOTAL DEPTH: 350.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 16:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.40°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 14.5  
 SH/Hg:  
 SDD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.70  
 SD/PH:  
 SM/PH: 1.03  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	9.02	20.30	15.63	11.97	0.84	0.34	0.11	4.03	2.24	5.74
5.	7.43	23.34	18.20	12.34						
10.	7.06	24.62	19.24	12.38	0.71	0.29	0.11	4.71		
15.	6.97	24.77	19.38	12.06						
20.	6.96	24.82	19.41	11.65						
25.	7.29	25.19	19.67	11.58	0.88	0.24	0.11	5.00	2.04	
30.	13.81	35.59	26.69	8.87						
40.	14.91	38.07	28.36	3.06						
50.	14.97	38.40	28.60	2.57	0.58	1.17	10.37	27.61		
60.	14.95	38.50	28.69	2.47						
70.	14.85	38.55	28.75	2.37						
75.	14.81	38.55	28.76	1.96	0.45	1.21	10.16	30.54	0.67	
80.	14.78	38.56	28.77	1.78						
90.	14.68	38.56	28.80	1.46						
100.	14.62	38.56	28.81	1.38	0.47	1.34	11.23	38.16	0.65	
125.	14.55	38.56	28.83	1.38						
150.	14.51	38.55	28.83	1.08						
200.	14.44	38.54	28.84	.94	0.71	1.37	11.50	44.32	0.60	
250.	14.41	38.54	28.84	.90						
300.	14.40	38.54	28.85	.97	0.67	1.40	11.50	41.72		

STATION NUMBER: M-16  
 TOTAL DEPTH: 100.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 16:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.40'  
 LATITUDE: 40.33'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SN/Cd:

TSS: 1.64  
 SD/PH:  
 SM/PH: 1.08  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	7.00	24.54	19.19	12.60	0.88	0.23	0.10	4.40	1.93	
5.	7.00	24.54	19.19	12.63						

STATION NUMBER: M-17  
 TOTAL DEPTH: 60.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

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

CHARACTER  
 LONGITUDE: 29.4'  
 LATITUDE: 40.27'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SN/Cd:

TSS: 2.46  
 SD/PH:  
 SM/PH: 0.72  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	3.31	21.20	17.03	14.85	0.86	0.43	0.13	4.92		
5.	6.76	24.50	19.19	13.23						
10.	7.66	26.01	20.27	12.67						
15.	7.57	26.26	20.47	11.71						
20.	7.63	26.45	20.61	11.54						
25.	7.64	26.89	20.96	11.49						
30.	15.22	38.16	28.39	8.34						
40.	14.98	38.19	28.44	3.80						
50.	14.97	38.44	28.64	3.24	0.80	0.41	0.97			
60.	14.88	38.54	28.73	2.28						

STATION NUMBER: M-18  
 TOTAL DEPTH: 100.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 13:55  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.57'  
 LATITUDE: 40.24'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SN/Cd:

TSS: 1.70  
 SD/PH:  
 SM/PH: 0.40  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	8.09	27.84	21.65	15.52	1.38	0.34	0.12	6.12	2.02	

STATION NUMBER: 11-19  
 TOTAL DEPTH: 64.0 m.  
 PLACE:  
 DATE: 15-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 14:55  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.44°  
 LATITUDE: 40.26°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 10.2  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 2.83  
 SD/PH:  
 SM/PH: 0.92  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	7.29	24.60	19.21	14.39	0.86	0.40	0.13	4.98	2.21	
5.	7.36	24.68	19.26	13.87						

STATION NUMBER: 11-20  
 TOTAL DEPTH: 52.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 05:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.28°  
 LATITUDE: 40.28°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.48  
 SD/PH:  
 SM/PH: 0.80  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	6.31	23.70	18.61	14.26	0.70	0.29	0.09	4.32	1.83	
5.	7.07	24.71	19.32	11.80						

STATION NUMBER: 11-21  
 TOTAL DEPTH: 53.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 06:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20°  
 LATITUDE: 40.32°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 7.0  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.14  
 SD/PH:  
 SM/PH: 0.44  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	6.99	24.47	19.14	8.30	0.80	0.29	0.09	4.38	1.65	

STATION NUMBER: M-22  
 TOTAL DEPTH: 125.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 03:10  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20'  
 LATITUDE: 40.40'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SA/Hg:  
 SI/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SA/Cd:  
 SI/Cd:

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

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	NO2-N	Si	TOC	CHL-a
0.	6.97	24.46	19.13	14.15	0.88	0.27	0.10		4.17	1.69	
5.	6.95	24.46	19.13	12.45							

STATION NUMBER: M-24  
 TOTAL DEPTH: 730.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 00:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SA/Hg: 5.9  
 SI/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SA/Cd:  
 SI/Cd:

TSS: 1.51  
 SD/PH:  
 SA/PH: 0.92  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	NO2-N	Si	TOC	CHL-a
0.	6.90	24.50	19.17	12.23	0.86	0.33	0.12		4.59	1.92	4.92
5.	6.95	24.43	19.11	12.02							
10.	6.96	24.42	19.11	11.75							
15.	6.91	24.49	19.16	11.72							
20.	6.85	24.66	19.30	11.65							
25.	6.91	24.75	19.37	11.73	0.52	0.96	7.04		18.71	1.04	
30.	11.83	31.63	24.01	9.61							
40.	14.97	38.12	28.39	3.16							
50.	14.95	38.43	28.63	2.16	0.30	1.20	10.33		29.06	0.54	
60.	14.93	38.51	28.70	2.02							
70.	14.91	38.54	28.73	1.77							
75.	14.90	38.55	28.74	1.73	0.30	0.83	3.77		12.00	1.58	
80.	14.86	38.56	28.75	1.69							
90.	14.83	38.56	28.76	1.46							
100.	14.80	38.57	28.77	1.45	0.28	1.27	10.01		13.78	0.54	
125.	14.74	38.57	28.79	1.38							
150.	14.65	38.57	28.81	1.36							
200.	14.55	38.56	28.83	1.11	0.30	1.35	11.41		41.86	0.52	
250.	14.50	38.55	28.83	.97							
300.	14.45	38.55	28.84	.98	0.35	1.33	10.93		46.10	0.51	
400.	14.41	38.54	28.85	.76	0.40	1.36	10.71		48.57	0.62	
500.	14.42	38.54	28.85	1.13	0.62	1.28	10.64		47.61	0.56	
600.	14.42	38.54	28.86	1.32	0.40	1.25	8.08		44.87	0.51	

STATION NUMBER: M-25	SEASON:	
TOTAL DEPTH: 60.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 15-02-89	TIME: 23:15	LONGITUDE: 28.20°
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.59°
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 1.38
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 6.8	SW/Cd:	SW/PH:
SH/Hg:	SH/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	6.87	24.48	19.16	11.26	0.75	0.37	0.11	4.39	1.80		
5.	6.87	24.48	19.16	11.27							

STATION NUMBER: M-26	SEASON:	
TOTAL DEPTH: 700.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 16-02-89	TIME: 16:45	LONGITUDE: 28. 0°
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.55°
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 2.10
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 12.0	SW/Cd:	SW/PH: 0.50
SH/Hg:	SH/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	7.26	24.32	18.99	12.70	0.93	0.39	0.10	4.58	2.02		
5.	7.22	24.35	19.01	12.84							



STATION NUMBER: M-27  
 TOTAL DEPTH: 1000.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 14:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SN/Cd:

TSS: 3.20  
 SD/PH:  
 SM/PH: 0.67  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-I	DO	IRI	P04-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	5.40	27.07	21.36	11.85	0.67	0.32	0.29	4.91	1.90	4.10	
5.	6.89	24.66	19.30	12.28							
10.	7.13	24.57	19.20	12.23	0.80	0.34	0.10	4.71	1.76	4.28	
15.	7.12	25.07	19.59	11.61							
20.	7.13	25.28	19.76	11.84	0.70	0.39	0.10	5.36	1.80	2.66	
25.	7.10	25.68	20.08	11.72							
30.	10.06	29.35	22.52	10.30	0.61	0.27	1.61	10.80	1.50	3.17	
40.	15.01	38.02	28.31	4.07	0.32	0.98	8.05	19.38	0.74	0.16	
50.	15.04	38.47	28.65	3.06	0.47	1.22	11.11	27.95	0.74	0.09	
60.	14.96	38.52	28.70	2.79	0.54	1.08	8.76	24.55	0.71		
70.	14.82	38.53	28.74	3.60	0.52	1.02	8.20	24.36	0.75		
75.	14.75	38.54	28.76	3.97							
80.	14.73	38.54	28.77	4.02	0.45	0.93	7.86	25.74	0.71		
90.	14.72	38.56	28.79	3.35							
100.	14.72	38.58	28.80	2.84	0.65	1.13	4.76	31.27	0.70		
125.	14.69	38.58	28.81	1.72							
150.	14.65	38.58	28.82	1.94							
200.	14.53	38.56	28.83	1.48	0.43	1.34	11.34	41.37	0.65		
250.	14.47	38.55	28.84	1.14							
300.	14.44	38.54	28.84	1.02	0.58	1.35	11.28	45.99	0.62		
400.	14.42	38.54	28.85	1.14	0.42	1.29	8.11	23.03	1.18		
500.	14.43	38.55	28.85	1.49	0.54	1.33	10.33	46.21	0.63		
600.	14.43	38.55	28.86	1.90	0.60	1.25	9.88	43.08	0.66		
700.	14.42	38.55	28.87	2.34	0.43	1.20	9.63	39.07	0.64		
800.	14.41	38.55	28.87	2.29	0.47	1.18	8.31	38.10			
900.	14.41	38.55	28.87	2.23	0.58	1.25	8.69	25.19	1.08		
1000.	14.41	38.55	28.87	2.23	0.54	1.19	9.76	38.33	0.65		

STATION NUMBER: M-28  
 TOTAL DEPTH: 800.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 12:45  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.45'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 6.5  
 SI/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SI/Cd:

TSS: 2.20  
 SD/PH:  
 SM/PH: 1.12  
 FC/0m. :  
 FC/2m. :

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	7.10	24.57	19.21	2.45	0.95	0.30	0.11	4.39	2.05		
5.	7.06	24.57	19.21	10.67							
10.	7.04	24.55	19.20	12.04	0.84	0.32	0.10	4.53	2.09		
15.	7.04	24.55	19.20	11.62							
20.	7.15	24.65	19.26	12.08	0.67	0.27	0.10	4.80	2.13		
25.	7.04	25.65	20.06	12.01							
30.	8.25	27.48	21.33	11.23	0.97	0.59	0.19	5.98	1.95		
40.	15.05	38.17	28.41	4.33	0.41	1.00	8.60	19.67	0.86		
50.	15.01	38.48	28.66	3.76	0.40	1.16	8.82	25.20	0.81		
60.	14.90	38.53	28.72	2.65							
70.	14.82	38.54	28.75	2.16							
75.	14.81	38.54	28.75	2.00	0.35	1.13	10.71	32.82	0.78		
80.	14.78	38.55	28.76	2.16							
90.	14.77	38.56	28.77	1.95							
100.	14.75	38.56	28.78	2.03	0.35	1.32	10.48	33.64	0.71		
125.	14.76	38.58	28.79	2.61							
150.	14.74	38.58	28.80	2.58							
200.	14.62	38.58	28.82	1.96	0.40	1.26	10.50	36.02	0.68		
250.	14.51	38.56	28.84	1.25							
300.	14.46	38.55	28.84	1.25	0.60	1.24	10.07	29.94	0.60		
400.	14.44	38.55	28.85	1.40	0.43	1.32	10.45	16.16	0.65		
500.	14.43	38.55	28.86	1.47	0.41	1.27	10.00	42.60	0.63		
600.	14.44	38.55	28.86	2.05	0.45	1.19	9.69	39.12	0.58		
700.	14.43	38.55	28.87	2.12	0.45	1.23	9.72	39.39	0.60		
800.	14.43	38.55	28.87	2.12	0.58	1.04	9.62	38.08	0.63		

STATION NUMBER: M-29  
 TOTAL DEPTH: 98.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 12:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.40'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 2.2  
 SM/Hg:  
 BOD-5:

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

TSS: 1.24  
 SD/PH:  
 SW/PH: 0.86  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IN	P04-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	7.32	25.11	19.60	11.16	0.91	0.45	0.10	5.29	1.57	3.94
5.	7.31	25.12	19.61	11.22						
10.	7.29	25.16	19.65	12.14	0.88	0.38	0.10	5.23	1.72	
15.	7.30	25.18	19.66	11.93						
20.	7.69	25.56	19.91	11.87	0.77	0.39	0.10	5.41	1.72	
25.	7.88	25.90	20.15	11.31						
30.	11.42	31.64	24.09	9.41		0.60	0.48	9.67	1.38	
40.	14.93	38.17	28.44	4.27	0.35	0.94	7.62	17.34	0.59	
50.	14.96	38.51	28.70	4.39	0.45	0.95	7.73	21.72	0.62	
60.	14.88	38.55	28.74	3.15						
70.	14.85	38.57	28.76	2.87						
75.	14.77	38.57	28.78	2.76	0.38	1.16	9.57	30.08	0.62	
80.	14.75	38.57	28.79	2.86						
90.	14.73	38.57	28.79	2.62						

STATION NUMBER: M-30  
 TOTAL DEPTH: 44.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 11:15  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.34'  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.48  
 SD/PH:  
 SW/PH: 0.65  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IN	P04-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	7.12	24.56	19.19	11.47	0.84	0.61	0.10	4.75	1.73	
5.	7.22	24.55	19.18	12.47						

STATION NUMBER: M-31	SEASON:	
TOTAL DEPTH: 50.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 16-02-89	TIME: 08:05	LONGITUDE: 28. 8'
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.25'
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 1.84
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 2.7	SW/Cd:	SW/PH: 0.91
SM/Hg:	SM/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	6.84	25.06	19.62	16.58	0.75	1.18	0.10	4.86	1.82		
5.	6.93	25.00	19.56	12.59							

STATION NUMBER: M-32	SEASON:	
TOTAL DEPTH: 30.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 16-02-89	TIME: 09:30	LONGITUDE: 27.57'
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.22'
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 2.18
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 12.8	SW/Cd:	SW/PH: 0.79
SM/Hg:	SM/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	6.87	25.40	19.88	10.97	0.91	6.77	0.20	6.87	1.63		
5.	6.80	25.30	19.81	11.07							

STATION NUMBER: H-33  
 TOTAL DEPTH: 760.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 17:10  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.53°  
 LATITUDE: 40.50°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 12.9  
 SH/Hg:  
 BOD-5:

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

TSS: 3.15  
 SD/PH:  
 SW/PH: 0.38  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	chl	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	6.67	24.47	19.18	9.12	0.93	0.68	0.10	4.62	1.92		
5.	6.93	24.74	19.35	12.21							
10.	7.03	24.85	19.43	12.78	0.75	0.20	0.12	4.93	2.05		
15.	7.02	24.87	19.45	12.04							
20.	7.08	24.92	19.48	11.96	0.70	0.29	0.10	4.36	2.04		
25.	7.09	25.24	19.73	11.62							
30.	11.30	31.77	24.21	9.67	0.47	0.82	2.81	14.95	1.22		
40.	15.06	38.13	28.38	3.61	0.30	1.00	8.44	20.62	0.76		
50.	15.00	38.52	28.69	2.92	0.45	1.18	9.79	27.26			
60.	14.94	38.56	28.73	2.94							
70.	14.86	38.57	28.76	2.40							
75.	14.85	38.58	28.77	2.07	0.53	0.87	4.15	14.40	1.43		
80.	14.83	38.58	28.78	2.19							
90.	14.78	38.58	28.79	1.96							
100.	14.76	38.58	28.79	1.77	0.35	0.92	10.56	34.45	0.66		

STATION NUMBER: H-34  
 TOTAL DEPTH: 800.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 04:35  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.40°  
 LATITUDE: 40.52°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 2.28  
 SD/PH:  
 SW/PH: 0.49  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	chl	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	7.14	24.51	19.16	12.29	1.29	0.32	0.11	4.81	1.99		
5.	7.14	24.51	19.16	12.39							
10.	7.11	24.52	19.16	12.28							
15.	7.07	24.61	19.24	12.22							
20.	7.15	25.43	19.87	11.95							
25.	7.17	25.71	20.09	11.60	0.80	0.31	0.12	5.27	1.87		
30.	12.13	32.23	24.41	9.43							
40.	14.78	38.19	28.49	4.48							
50.	15.03	38.49	28.66	3.97	0.43	0.96	8.61	23.25	0.70		
60.	14.93	38.55	28.73	2.77							
70.	14.85	38.56	28.76	2.83							
75.	14.81	38.56	28.77	2.84	0.25	1.12	9.71	30.08	0.71		
80.	14.80	38.57	28.77	2.57							
90.	14.76	38.57	28.79	2.28							
100.	14.73	38.57	28.79	2.37	0.43	1.19	10.07	32.02	0.70		
125.	14.70	38.58	28.81	2.17							

STATION NUMBER: M-35  
 TOTAL DEPTH: 1060.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 05:35  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.34°  
 LATITUDE: 40.50°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.62  
 SD/PH:  
 SM/PH: 0.83  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N			CHL-a
							+	Si	TOC	
0.	7.04	24.91	19.48	11.70	0.84	0.51	0.12	4.63	2.03	
5.	6.97	24.81	19.41	12.01						
10.	7.01	24.82	19.41	11.98						
15.	6.88	25.17	19.70	11.98						
20.	6.86	25.25	19.77	11.81						
25.	6.87	25.39	19.88	11.72	0.91	0.37	0.12	5.13	1.83	
30.	12.85	35.39	26.74	9.22						
40.	15.04	38.34	28.54	3.74						
50.	14.93	38.51	28.70	3.46	0.35	1.17	9.39	25.46	0.72	
60.	14.86	38.54	28.74	2.02						
70.	14.81	38.56	28.76	1.58						
75.	14.80	38.56	28.77	1.54						
80.	14.77	38.56	28.78	1.65						
90.	14.76	38.57	28.78	1.46						
100.	14.74	38.57	28.79	1.79	0.56	1.34	11.31	37.32	0.60	
125.	14.70	38.58	28.81	1.53						
150.	14.65	38.58	28.82	1.55						
200.	14.54	38.57	28.83	1.43	0.41	1.23	11.28	40.95	0.62	
250.	14.47	38.55	28.84	1.11						
300.	14.44	38.55	28.85	1.13	0.58	1.31	11.15	46.35	0.59	
400.	14.42	38.54	28.85	1.31	0.40	1.28	9.85	45.93	0.60	
500.	14.43	38.55	28.86	1.69	0.42	1.29	10.74	38.74	0.71	
600.	14.44	38.56	28.86	2.26	0.36	1.17	9.55	38.33	0.65	
700.	14.43	38.56	28.87	2.25	0.41	1.07	9.55	38.06	0.57	
800.	14.44	38.56	28.88	2.54	0.20	1.12	9.22	35.97	0.64	
900.	14.41	38.56	28.88	2.42	0.35	1.14	9.10	37.08	0.62	
1000.					0.30	1.16	8.92	38.24	0.65	

STATION NUMBER: M-36  
 TOTAL DEPTH: 430.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 09:15  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.28°  
 LATITUDE: 40.42°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.50  
 SD/PH:  
 SM/PH: 0.55  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N			CHL-a
							+	Si	TOC	
0.	7.26	25.31	19.77	11.21	0.82	0.33	0.59	4.93	1.96	
5.	7.14	24.97	19.51	11.96						

STATION NUMBER: H-37  
 TOTAL DEPTH: 490.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 18:40  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.48°  
 LATITUDE: 40.42°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.73  
 SD/PH:  
 SW/PH: 0.32  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N		Si	TOC	CHL-a
							+	NO2-N			
0.	6.68	24.97	19.57	9.97	0.65	0.38		0.22	4.64		
5.	6.89	24.37	19.07	11.78							
10.	7.12	24.41	19.08	12.18	0.71	0.30		0.11	5.18	1.87	
15.	7.13	25.46	19.90	11.79							
20.	7.11	25.66	20.06	11.50	0.71	0.31		0.10	5.61	1.81	
25.	7.10	25.99	20.32	11.25							
30.	10.89	30.13	23.01	9.66	0.70	0.33		0.09	4.86	1.97	
40.	15.02	38.21	28.45	4.48	0.40	0.88		6.95	18.83	0.75	
50.	14.99	38.51	28.69	3.95							
60.	14.93	38.55	28.73	3.01	0.38	1.13		9.67	27.82	0.72	
70.	14.86	38.56	28.75	2.30							
75.	14.85	38.56	28.76	2.09	0.52	1.20		10.01	30.44	0.71	
80.	14.83	38.57	28.77	1.99							
90.	14.79	38.57	28.78	2.11							
100.	14.76	38.57	28.79	2.29	0.34	1.21		8.85	32.52	0.65	
125.	14.72	38.58	28.80	2.34							
150.	14.70	38.58	28.81	2.21							

STATION NUMBER: H-38  
 TOTAL DEPTH: 68.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 22:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.40°  
 LATITUDE: 40.33°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 0.83  
 SD/PH:  
 SW/PH: 0.67  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N		Si	TOC	CHL-a
							+	NO2-N			
0.	9.31	19.28	14.79	8.47	0.62	0.28		0.11	4.71	1.79	
5.	7.89	23.96	18.63	11.86							
10.	7.32	25.81	20.15	12.27	0.67	0.35		0.11	5.81	1.77	
15.	7.34	26.06	20.34	11.54							
20.	7.18	26.31	20.56	11.27	0.80	0.39		0.14	6.13	1.66	
25.	7.24	26.59	20.77	11.03							
30.	9.40	29.98	23.10	10.02	0.74	0.44		0.93	7.90	1.60	
40.	14.56	37.97	28.36	4.41	0.32	0.88		7.59	19.79	0.73	
50.	14.60	38.20	28.54	4.18	0.41	0.75		8.02	22.70	0.86	
60.	14.60	38.50	28.77	3.25							

STATION NUMBER: M-39  
 TOTAL DEPTH: 40.0 m.  
 PLACE:  
 DATE: 16-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 23:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.40'  
 LATITUDE: 40.25'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 4.7  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 2.36  
 SD/PH:  
 SM/PH: 0.51  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	5.42	25.78	20.35	7.08	0.91	0.44	0.15	6.82	1.80	
5.	6.54	26.17	20.52	9.37						
10.	6.86	26.33	20.61	10.61						
15.	6.82	26.35	20.64	10.97						
20.	6.76	26.43	20.70	10.94	0.80	0.29	0.14	6.16	1.72	
25.	6.79	26.48	20.74	10.96						
30.	6.88	26.58	20.81	10.92						
40.	6.88	26.58	20.81	10.92	0.50	1.04	7.68	24.36	0.86	

STATION NUMBER: M-40  
 TOTAL DEPTH: 54.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 00:20  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.29'  
 LATITUDE: 40.26'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 0.94  
 SD/PH:  
 SM/PH: 0.61  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.89	26.02	20.36	2.63	0.91	0.34	0.11	5.45	1.74	
5.	7.02	25.85	20.22	9.62						
10.	6.86	25.90	20.28	11.63						
15.	6.80	26.03	20.38	11.62						
20.	6.78	26.17	20.50	11.57	0.80	0.30	0.14	5.81	1.79	
25.	6.93	26.53	20.76	11.32						
30.	7.39	27.05	21.12	11.05						
40.	14.54	38.08	28.46	6.93	0.56	0.99	7.88	23.39	0.73	



STATION NUMBER: M-41  
 TOTAL DEPTH: 60.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 01:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.27°  
 LATITUDE: 40.30°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 4.2  
 SM/Hg:  
 BOD-5:

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

TSS: 0.98  
 SD/PH:  
 SW/PH: 0.61  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	P04-P	NO3-N +	Si	TOC	CHL-a
0.	6.96	25.83	20.21	11.81	0.91	0.36	0.12	5.61	1.74	
5.	6.97	25.84	20.22	11.41						

STATION NUMBER: M-42  
 TOTAL DEPTH: 69.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 13:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.25°  
 LATITUDE: 40.34°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.94  
 SD/PH:  
 SW/PH: 0.55  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	P04-P	NO3-N +	Si	TOC	CHL-a
0.	6.85	25.82	20.21	8.95	0.80	0.30	0.12	5.59	1.75	
5.	6.84	25.82	20.22	9.26						

STATION NUMBER: M-43  
 TOTAL DEPTH: 135.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 10:10  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.22°  
 LATITUDE: 40.38°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.14  
 SD/PH:  
 SW/PH: 0.72  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	6.92	25.68	20.10	12.23	0.67	0.35	0.12	5.35	1.90	
5.	6.96	25.76	20.15	12.34						

STATION NUMBER: M-44  
 TOTAL DEPTH: 86.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 11:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.15°  
 LATITUDE: 40.35°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 4.3  
 SH/Hg:  
 BOD-5:

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

TSS: 0.87  
 SD/PH:  
 SW/PH: 1.03  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	7.05	24.72	19.33	11.05	0.51	0.23	0.10	4.69	1.80	
5.	6.99	24.97	19.53	12.32						
10.	6.97	25.10	19.63	12.47	0.75	0.23	0.10	4.93	1.78	
15.	6.95	25.20	19.72	12.28						
20.	6.99	25.67	20.08	11.99						
25.	6.86	26.13	20.46	11.88	0.75	0.23	0.11	5.41	1.81	
30.	13.63	35.99	27.06	9.03						
40.	14.80	38.28	28.55	4.70						
50.	15.03	38.51	28.68	3.10	0.31	1.09	10.08	25.74	0.65	
60.	14.86	38.55	28.75	2.00						
70.	14.64	38.55	28.79	2.54						
75.	14.63	38.56	28.81	3.08	0.65	0.34	0.61	6.10	1.75	
80.	14.53	38.57	28.83	2.56						

STATION NUMBER: H-45  
 TOTAL DEPTH: 65.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 11:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.17°  
 LATITUDE: 40.30°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 9.1  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 0.57  
 SD/PH:  
 SM/PH: 0.39  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	7.17	25.30	19.77	11.94	0.67	0.14	0.11	4.98	1.84	
5.	6.96	25.27	19.77	12.70						
10.	6.88	25.26	19.77	12.81						
15.	6.95	25.48	19.93	12.57						
20.	6.93	25.59	20.03	12.24						
25.	7.16	26.28	20.54	11.85						
30.	11.20	33.41	25.48	9.89						
40.	14.70	38.27	28.56	4.73	0.30	0.77	6.90		0.79	
45.	14.75	38.42	28.66	4.17	0.24	0.77	6.77		0.77	
50.	14.81	38.54	28.75	3.61	0.30	0.90	7.94		0.70	
55.	14.61	38.52	28.77	3.10	0.58	1.18	10.20		0.66	
60.	14.40	38.49	28.80	2.58						

STATION NUMBER: H-46  
 TOTAL DEPTH: 75.0 m.  
 PLACE:  
 DATE: 17-02-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 14:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 26.45°  
 LATITUDE: 40.26°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 7.9  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 3.30  
 SD/PH:  
 SM/PH: 0.76  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	7.32	25.50	19.91	13.45	0.78	0.35	0.11	5.18	1.76	4.05
5.	7.02	25.48	19.93	12.22						
10.	6.91	25.48	19.94	11.75						
15.	6.92	25.53	19.98	11.52						
20.	6.99	25.65	20.06	11.40	0.28	0.32	0.12	2.58	0.65	
25.	7.89	27.04	21.04	10.76						
30.	12.64	36.70	27.79	8.77						
40.	13.10	38.37	28.99	7.39						
50.	13.16	38.55	29.12	7.77						
60.	13.17	38.58	29.14	7.85	0.32	0.29	2.25	2.51	0.68	
70.	13.19	38.60	29.15	7.79						
75.	13.19	38.61	29.16	7.69						

STATION NUMBER: C-0      SEASON:  
TOTAL DEPTH: 95.0 m.      STATION TYPE:  
PLACE:  
DATE: 17-02-89      TIME: 23:09      CHARACTER  
BAROMETRIC PRESSURE:      AIR TEMPERATURE:      LONGITUDE: 26.11'  
CLOUD:      WAVE STATE:      LATITUDE: 40.1'  
SECCHI DISK DEPTH:      VISIBILITY:      WIND:  
WIND DIRECTION:

OS:      TR:      TSS: 0.05  
SD/Hg:      SD/Cd:      SD/PH:  
SA/Hg: 7.0      SA/Cd:      SA/PH: 0.66  
SI/Hg:      SI/Cd:      FC/0m.:  
BOD-5:      FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	8.62	27.65	21.47	8.11	0.58	0.24	0.37	4.77	1.66	2.05
5.	10.34	32.40	24.87	7.78						
10.	11.02	34.26	26.20	8.64	0.45	0.28	0.81	3.59	1.23	
15.	11.52	35.10	26.76	8.52						
20.	13.26	38.64	29.17	8.06	0.41	0.27	1.52	2.63	0.78	
25.	13.26	38.68	29.20	7.54						
30.	13.26	38.71	29.22	7.54						
40.	13.27	38.73	29.23	7.48						
50.	13.27	38.74	29.24	7.43						
60.	13.27	38.75	29.25	7.53	0.50	0.24	2.05	2.51	0.66	
70.	13.27	38.75	29.25	7.47						

STATION NUMBER: E-14      SEASON:  
TOTAL DEPTH: 70.0 m.      STATION TYPE:  
PLACE:  
DATE: 18-02-89      TIME: 00:30      CHARACTER  
BAROMETRIC PRESSURE:      AIR TEMPERATURE:      LONGITUDE: 25.58'  
CLOUD:      WAVE STATE:      LATITUDE: 39.57'  
SECCHI DISK DEPTH:      VISIBILITY:      WIND:  
WIND DIRECTION:

OS:      TR:      TSS: 1.23  
SD/Hg:      SD/Cd:      SD/PH:  
SA/Hg:      SA/Cd:      SA/PH:  
SI/Hg:      SI/Cd:      FC/0m.:  
BOD-5:      FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	3.39	23.09	18.76	14.81	0.52	0.22	0.41	4.01	1.37	
5.	8.50	32.83	25.51	10.82						

STATION NUMBER: 30 A      SEASON:  
TOTAL DEPTH: 21.0 m.      STATION TYPE:  
PLACE:  
DATE: 15-02-89      TIME: 01:10      CHARACTER  
BAROMETRIC PRESSURE:      AIR TEMPERATURE:      LONGITUDE: 29.21'  
CLOUD:      WAVE STATE:      LATITUDE: 40.43'  
SECCHI DISK DEPTH:      VISIBILITY:      WIND:  
WIND DIRECTION:

OS:      TR:      TSS: 2.75  
SD/Hg:      SD/Cd:      SD/PH:  
SA/Hg: 4.3      SA/Cd:      SA/PH: 0.91  
SI/Hg:      SI/Cd:      FC/0m.:  
BOD-5:      FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.92	22.70	17.76	11.02	1.01	0.80	0.14	7.40	1.90	
5.	6.99	22.82	17.84	11.56						
10.	8.46	25.47	19.74	11.00						
15.	8.76	26.49	20.50	9.52						
25.	8.76	26.49	20.50	9.52	1.36	0.54	1.27	11.73	1.87	

ÇİZELGE-6: MART, 1989 DÖNEMİNDE MARMARA DENİZİ VE BOĞAZLARI  
BOYUNCA STANDARD DERİNLİKLERDE ÖLÇÜLEN  
BİYOKİMYASAL PARAMETRELERİN DEĞİŞİMİ

STATION NUMBER: H-2 SEASON:  
 TOTAL DEPTH: 50.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 24-03-89 TIME: 16:30 LONGITUDE: 28.59°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.59°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 5.15  
 SD/Hg: SD/PH: SD/PH:  
 SW/Hg: 2.1 SW/Cd: SW/PH: 2.30  
 SH/Hg: SH/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	8.32	19.98	15.47	11.07	0.67	0.34	0.73	4.46	2.00	
5.	8.62	21.66	16.74	10.72						
10.	8.97	23.59	18.20	9.92	0.72	0.39	0.87	7.68	1.81	
15.	9.05	24.55	18.94	9.24						
20.	9.88	28.92	22.23	8.55	0.65	0.38	1.86	10.36	1.58	
25.	11.81	32.69	24.83	5.79						
30.	14.19	37.23	27.87	3.09	0.44	0.93	8.78	22.62	0.91	
40.	14.86	38.25	28.52	1.92	0.46	1.15	10.44	31.60	0.70	

STATION NUMBER: H-3 SEASON:  
 TOTAL DEPTH: 90.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 23-03-89 TIME: 20:15 LONGITUDE: 29.4°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.50°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 2.80  
 SD/Hg: SD/PH: SD/PH:  
 SW/Hg: 5.1 SW/Cd: SW/PH: 0.32  
 SH/Hg: SH/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	9.88	23.72	18.18	12.58	0.56	0.25	0.13	4.66	2.05	

STATION NUMBER: H-5 SEASON:  
 TOTAL DEPTH: 270.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 22-03-89 TIME: 18:55 LONGITUDE:  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE:  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 5.40  
 SD/Hg: SD/PH: SD/PH:  
 SW/Hg: SW/Cd: SW/PH: 1.96  
 SH/Hg: SH/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	16.37	39.05	28.80	24.35	1.28	0.53	0.16	5.52	2.63	

STATION NUMBER: H-6  
 TOTAL DEPTH: 60 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 18:55  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE:  
 LATITUDE:  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 8.30  
 SD/PH:  
 SW/PH:  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a NO2-N
0.	16.37	39.05	28.80	24.35	1.74	1.47	0.24	7.41	3.69	

STATION NUMBER: H-7  
 TOTAL DEPTH: 210.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 18:10  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.0°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.50  
 SD/PH:  
 SW/PH: 0.37  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a NO2-N
0.	11.52	22.66	17.14	8.35	0.69	0.23	0.12	4.96	2.13	

STATION NUMBER: H-8  
 TOTAL DEPTH: 270.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 18:55  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.52°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

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

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

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

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a NO2-N
0.	16.37	39.05	28.80	24.35	0.70	0.36	0.11	5.36	2.02	

STATION NUMBER: M-9  
 TOTAL DEPTH: 1000.0 m.  
 PLACE:  
 DATE: 23-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 04:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 29. 0'  
 LATITUDE: 40.46'  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 3.0  
 SD/PH:  
 SW/PH: 1.28  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N			
							+	Si	TOC	CHL-a
							NO2-N			
0.	10.17	23.15	17.70	11.42	0.72	0.37	0.13	4.09	2.04	7.13
5.	9.95	23.22	17.78	11.70						
10.	9.43	23.46	18.04	11.61	0.78	0.23	0.13	5.57	0.86	1.05
15.	8.89	25.42	19.64	10.81						
20.	9.50	28.01	21.58	8.79						
25.	12.72	34.88	26.36	6.04						
30.	14.15	37.14	27.81	3.26	0.47	0.86	6.28	24.68	0.61	2.25
40.	14.90	38.38	28.61	2.03	0.41	1.12	9.44	29.24	0.59	
50.	14.88	38.48	28.69	1.87	0.41	1.20	10.17	33.95	0.53	0.12
60.	14.86	38.52	28.72	1.61						0.09
70.	14.84	38.55	28.75	1.56						
75.	14.82	38.55	28.76	1.59						
80.	14.81	38.56	28.76	1.53						0.14
90.	14.76	38.57	28.78	1.41						
100.	14.72	38.57	28.79	1.37						
125.	14.65	38.57	28.81	1.12						
150.	14.58	38.56	28.82	1.08						
200.	14.48	38.55	28.84	.87	0.33	1.27	11.03	42.33	0.55	
250.	14.42	38.54	28.84	.82						
300.	14.40	38.54	28.85	.97	0.52	1.30	11.21	48.95	0.58	
400.	14.39	38.54	28.85	.94	0.44	1.19	10.56	49.98	0.55	
500.	14.40	38.54	28.86	1.21	0.50	1.22	10.16	47.33	0.55	
600.	14.41	38.54	28.86	1.21	0.50	1.15	9.91	47.78	0.54	
700.	14.43	38.54	28.86	1.27	0.48	1.14	9.92	47.13	0.52	
750.	14.44	38.55	28.86	1.36	0.46					
800.	14.44	38.55	28.86	1.45	0.46	1.16	9.92	47.19	0.48	
900.	14.46	38.55	28.86	1.52	0.48	1.13	9.89	45.72	0.48	
1000.	14.48	38.55	28.86	1.53						



STATION NUMBER: H-10  
 TOTAL DEPTH: 140.0 m.  
 PLACE:  
 DATE: 23-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 17:55  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.55°  
 LATITUDE: 40.52°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 6.5  
 SH/Hg:  
 BOD-5:

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

TSS: 5.24  
 SO/PH:  
 SW/PH:  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.51	20.96	16.45	13.40	0.85	0.24	0.21	4.34	2.01	4.82
5.	8.10	21.05	16.33	12.08						
10.	9.04	22.22	17.12	11.52	0.67	0.30	0.12	4.80	2.11	2.65
15.	9.44	24.09	18.53	11.74						
20.	9.23	26.61	20.53	11.46	0.74	0.30	0.42	8.92	1.57	0.91
25.	12.44	33.79	25.57	7.80						
30.	14.49	37.43	27.96	3.49	0.52	0.77	4.81	25.92	0.83	0.46
40.	14.95	38.37	28.59	2.17	0.54	1.10	0.60	32.04	0.71	0.38
50.	14.94	38.50	28.69	1.92	0.46	1.19	11.26	33.95	0.70	
60.	14.87	38.53	28.73	1.58						
70.	14.82	38.55	28.76	1.28						
75.	14.79	38.56	28.76	1.33	0.33	1.21	10.96	37.48	0.74	
80.	14.77	38.56	28.77	1.33						
90.	14.73	38.56	28.79	1.29						
100.	14.68	38.57	28.80	1.17	0.41	1.14	8.47	25.27	1.25	
125.	14.47	38.55	28.83	1.02						

STATION NUMBER: H-11  
 TOTAL DEPTH: 65.0 m.  
 PLACE:  
 DATE: 23-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 21:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 29.10°  
 LATITUDE: 40.51°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.17  
 SO/PH:  
 SW/PH:  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	9.96	23.55	18.03	11.69	1.08	0.27	0.13	4.08	2.11	

STATION NUMBER: H-12  
 TOTAL DEPTH: 55.0 m.  
 PLACE:  
 DATE: 23-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 12:20  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.34°  
 LATITUDE: 40.57°  
 WIND:  
 WIND DIRECTION:

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

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

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

DEPTH	T	S	SI-T	DO	IN	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	9.73	23.80	18.26	11.10	0.76	0.36	NO2-N 0.13	4.63	2.23	

STATION NUMBER: H-13  
 TOTAL DEPTH: 800.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 22:45  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.40°  
 LATITUDE: 40.49°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 2.12  
 SD/PH:  
 SW/PH: 0.46  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IN	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	9.03	22.24	17.14	10.48	0.67	0.29	NO2-N 0.13	4.73	2.32	

STATION NUMBER: H-14  
 TOTAL DEPTH: 800.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 21:20  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.45°  
 LATITUDE: 40.45°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.65  
 SD/PH:  
 SW/PH:  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IN	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	8.93	22.21	17.13	9.62	0.69	0.23	NO2-N 0.14	4.50	2.09	

STATION NUMBER: M-15  
 TOTAL DEPTH: 400.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 20:15  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.40°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 6.1  
 SI/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SW/Cd:  
 SI/Cd:

TSS: 6.30  
 SD/PH:  
 SW/PH: 0.87  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	N03-N + N02-N	Si	TOC	CHL-a
0.	10.71	21.44	16.29	13.64	0.89	0.31	0.12	3.48	2.57	10.66
5.	9.62	22.58	17.32	11.95						
10.	8.59	23.40	18.10	12.93	0.85	0.26	0.11	4.98	2.16	
15.	8.55	24.19	18.73	11.66						
20.	11.23	30.76	23.44	9.08						
25.	13.08	36.46	27.34	3.79						
30.	14.87	38.03	28.34	2.27	0.56	0.94	7.60	28.95	0.95	
40.	14.93	38.45	28.65	2.11						
50.	14.85	38.49	28.70	1.85	0.33	1.12	9.97	34.89	0.65	
60.	14.87	38.52	28.72	1.82						
70.	14.84	38.55	28.75	1.69						
75.	14.80	38.55	28.76	1.64						
80.	14.79	38.55	28.76	1.57						
90.	14.78	38.57	28.78	1.47						
100.	14.75	38.57	28.79	1.54	0.50	1.12	8.41	38.36	0.57	
125.	14.66	38.57	28.81	1.41						
150.	14.62	38.57	28.82	1.30	0.43	1.22	10.91	41.36	0.55	
200.	14.50	38.55	28.83	1.05	0.34	1.22	11.15	43.95	0.52	
250.	14.43	38.54	28.84	.84	0.32	1.14	10.96	48.81	0.51	
300.	14.41	38.54	28.85	.87	0.41	1.20	10.64	49.69	0.51	
350.	14.41	38.54	28.85	.87	0.35	1.15	10.34	49.16	0.51	

STATION NUMBER: M-16  
 TOTAL DEPTH: 200.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 16:15  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.40°  
 LATITUDE: 40.33°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SW/Cd:  
 SI/Cd:

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

DEPTH	T	S	SI-T	DO	HI	PO4-P	N03-N + N02-N	Si	TOC	CHL-a
0.	10.80	21.08	16.01	12.49	0.89	0.45	0.13	3.70	2.85	

STATION NUMBER: M-17  
 TOTAL DEPTH: 200.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 16:15  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 29.4°  
 LATITUDE: 40.27°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SA/Hg: 4.9  
 SH/Hg:  
 BOO-5:

TR:  
 SO/Cd:  
 SA/Cd:  
 SH/Cd:

TSS: 2.33  
 SD/PH:  
 SA/PH:  
 FC/0m. :  
 FC/2m. :

DEPTH	T	S	SI-T	DO	PH	PO4-P	N03-N + N02-N	Si	TOC	CHL-a
0.	10.48	24.52	18.71	13.21	0.72	0.20	0.12	8.05	2.21	
5.	10.34	24.69	18.87	13.28	0.67	0.35	0.14	7.20	2.09	
10.	10.35	24.87	19.01	12.67	0.76	0.27	0.15	6.82	1.97	
15.	9.38	25.24	19.43	13.67						
20.	8.99	27.37	21.15	10.52	0.74	0.25	0.17	7.07	1.71	
25.	11.35	32.58	24.83	6.71						
30.	14.21	37.31	27.93	3.52	0.54	0.63	0.96	19.39	0.92	
40.	14.87	38.28	28.54	2.53	0.33	1.03	9.07	29.24	0.64	
50.	14.86	38.51	28.72	1.80	0.48	1.02	9.89	34.83	0.63	
60.	14.82	38.54	28.75	1.53	0.46	1.01	10.12	37.63	0.59	

STATION NUMBER: M-18  
 TOTAL DEPTH: 104.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 13:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.57°  
 LATITUDE: 40.42°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SA/Hg:  
 SH/Hg:  
 BOO-5:

TR:  
 SO/Cd:  
 SA/Cd:  
 SH/Cd:

TSS: 3.85  
 SD/PH:  
 SA/PH: 0.59  
 FC/0m. :  
 FC/2m. :

DEPTH	T	S	SI-T	DO	PH	PO4-P	N03-N + N02-N	Si	TOC	CHL-a
0.	14.98	24.08	17.70	12.26	0.82	0.32	0.13	6.69	1.95	
5.	11.05	24.97	18.97	11.97						

STATION NUMBER: M-19  
 TOTAL DEPTH: 65.0 m.  
 PLACE:  
 DATE: 23-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 04:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.44°  
 LATITUDE: 40.26°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SA/Hg:  
 SH/Hg:  
 BOO-5:

TR:  
 SO/Cd:  
 SA/Cd:  
 SH/Cd:

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

DEPTH	T	S	SI-T	DO	PH	PO4-P	N03-N + N02-N	Si	TOC	CHL-a
0.	9.79	24.91	19.12	11.79	0.72	0.33	0.13	6.23	1.95	

STATION NUMBER: M-20  
 TOTAL DEPTH: 54.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 10:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.28°  
 LATITUDE: 40.28°  
 WIND:  
 WIND DIRECTION:

DS:  
 SD/Hg:  
 SJ/Hg:  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SJ/Cd:  
 SH/Cd:

TSS: 1.40  
 SD/PH:  
 SJ/PH: 0.07  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	9.20	23.49	18.10	12.04	0.74	0.23	NO2-N	0.12	4.56	1.93

STATION NUMBER: M-21  
 TOTAL DEPTH: 150.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 09:35  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20°  
 LATITUDE: 40.32°  
 WIND:  
 WIND DIRECTION:

DS:  
 SD/Hg:  
 SJ/Hg:  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SJ/Cd:  
 SH/Cd:

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

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	9.72	23.76	18.24	12.63	0.80	0.30	NO2-N	0.12	5.22	2.05

STATION NUMBER: M-22  
 TOTAL DEPTH: 125.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 08:40  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

DS:  
 SD/Hg:  
 SJ/Hg:  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SJ/Cd:  
 SH/Cd:

TSS: 1.75  
 SD/PH:  
 SJ/PH: 0.56  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	9.37	23.32	17.94	12.30	0.80	0.29	NO2-N	0.12	4.40	2.12

STATION NUMBER: M-23  
 TOTAL DEPTH: 400.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 07:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 20.20'  
 LATITUDE: 40.45'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

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

DEPTH	T	S	SI-T	DO	INI	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	9.71	23.72	18.20	11.86	0.78	0.24	0.14	5.34	2.14	

STATION NUMBER: M-24  
 TOTAL DEPTH: 700.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 04:35  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 20.20'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.65  
 SD/PH:  
 SM/PH: 0.59  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	INI	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	6.74	24.24	19.01	12.99	0.80	0.25	0.12	5.06	2.13	3.73
5.	9.24	23.64	18.20	11.93						
10.	9.13	24.23	18.69	11.90	0.70	0.27	0.12	5.67	2.10	
15.	8.46	24.82	19.23	11.53						
20.	8.37	25.11	19.47	10.94						
25.	8.92	27.37	21.16	9.99						
30.	14.11	37.31	27.95	6.00	0.48	0.59	0.85	17.77	1.04	
40.	14.96	38.31	28.54	2.15						
50.	14.97	38.43	28.63	2.01	0.80	0.95	10.32	32.92	0.63	
60.	14.96	38.48	28.67	2.00						
70.	14.94	38.51	28.70	1.85						
75.	14.92	38.52	28.71	1.78						
80.	14.89	38.53	28.73	1.71						
90.	14.85	38.55	28.75	1.70						
100.	14.81	38.56	28.77	1.53	0.37	1.04	8.80	28.36	1.89	
125.	14.72	38.58	28.80	1.55						
150.	14.66	38.57	28.81	1.42						
200.	14.54	38.56	28.83	1.10	0.44	1.23	11.04	44.54	0.57	
250.	14.47	38.55	28.84	.98						
300.	14.43	38.54	28.84	.90						
400.	14.41	38.54	28.85	1.21						
500.	14.40	38.54	28.86	1.29	0.31	1.18	10.03	45.72	0.58	
600.	14.42	38.55	28.86	1.67						
700.	14.41	38.55	28.87	2.05	0.44	0.99	9.31	40.13	0.74	

STATION NUMBER: H-25  
 TOTAL DEPTH: 57.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 05:25  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20'  
 LATITUDE: 40.59'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg:  
 SH/Hg:  
 BOD-5:  
 TR:  
 SD/Cd:  
 SW/Cd:  
 SH/Cd:  
 TSS: 3.50  
 SD/PH:  
 SW/PH:  
 FC/Dm.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IRI	PO4-P	N03-N + N02-N	SI	TOC	CHL-a
0.	9.81	23.95	18.36	11.01	0.83	0.39	0.12	5.57	2.21	

STATION NUMBER: H-26  
 TOTAL DEPTH: 500.0 m.  
 PLACE:  
 DATE: 21-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 03:30  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.55'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg:  
 SH/Hg:  
 BOD-5:  
 TR:  
 SD/Cd:  
 SW/Cd:  
 SH/Cd:  
 TSS: 3.55  
 SD/PH:  
 SW/PH:  
 FC/Dm.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IRI	PO4-P	N03-N + N02-N	SI	TOC	CHL-a
0.	9.76	22.66	17.37	12.59	0.96	0.46	0.12	3.67	2.56	

STATION NUMBER: H-27  
 TOTAL DEPTH: 1200.0 m.  
 PLACE:  
 DATE: 22-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 12:20  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 2.5  
 SH/Hg:  
 BOD-5:  
 TR:  
 SD/Cd:  
 SW/Cd:  
 SH/Cd:  
 TSS: 3.60  
 SD/PH:  
 SW/PH:  
 FC/Dm.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IRI	PO4-P	N03-N + N02-N	SI	TOC	CHL-a
0.	10.05	23.71	18.15	12.59	0.78	0.48	0.11	4.66	2.45	
5.	10.04	23.86	18.27	12.67						
10.	9.24	24.03	19.51	12.39	0.87	0.32	0.11	5.29	2.31	
15.	8.55	24.23	18.76	12.38						
20.	8.37	24.85	19.27	11.64						
25.	8.67	26.79	20.75	10.69						
30.	13.10	35.44	26.71	6.91	0.56	0.60	0.70	14.83	1.22	
40.	15.02	38.34	28.56	2.78						
50.	14.96	38.53	28.70	2.43	0.48	1.05	10.20	29.83	0.60	
60.	14.87	38.55	28.75	2.85						
70.	14.81	38.56	28.76	1.91						
75.	14.79	38.56	28.77	1.61						
80.	14.78	38.57	28.78	1.70						
90.	14.74	38.57	28.78	1.89						
100.	14.74	38.57	28.79	2.10	0.30	1.14	10.45	35.42	0.55	
125.	14.71	38.58	28.80	2.34						
150.	14.67	38.58	28.81	2.36						
200.	14.60	38.57	28.83	2.04	0.35	1.08	9.74	37.18	0.53	
250.	14.52	38.56	28.84	1.44						
300.	14.47	38.55	28.84	1.25	0.37	1.15	10.59	45.57	0.55	
400.	14.43	38.55	28.85	1.49	0.40	1.12	9.90	45.72	0.52	
500.	14.43	38.55	28.86	1.81	0.46	1.10	9.55	43.07	0.57	
600.	14.42	38.55	28.86	2.08						
700.	14.42	38.55	28.87	2.31						
750.	14.42	38.55	28.87	2.31	0.48	1.07	9.63	41.74	0.52	
800.	14.41	38.55	28.87	2.31						
900.	14.41	38.55	28.87	2.25						

STATION NUMBER: H-28  
 TOTAL DEPTH: 780.0 m.  
 PLACE:  
 DATE: 21-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 22:45  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0°  
 LATITUDE: 40.45°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS:  
 SD/PH:  
 SM/PH: 0.46  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	9.92	24.41	18.72	12.85	0.70	0.30	0.13	4.59	2.27	6.35
5.	9.32	23.81	18.33	12.26						
10.	9.10	23.92	18.44	11.72	0.65	0.34	0.10	4.45		4.83
15.	8.91	24.40	18.85	11.77						
20.	8.35	24.85	19.27	11.65						
25.	8.69	26.83	20.77	10.27						
30.	13.57	36.20	27.21	6.75	0.72	0.32	0.13	6.44	1.85	2.39
40.	14.93	38.32	28.55	2.39						
50.	14.93	38.50	28.69	2.38	0.26	0.83	7.88	24.83	0.80	
60.	14.83	38.53	28.74	2.47						
70.	14.84	38.56	28.76	1.95						
75.	14.83	38.57	28.77	1.87						
80.	14.81	38.57	28.77	1.65						
90.	14.77	38.57	28.79	1.62						
100.	14.76	38.57	28.79	1.47	0.43		10.75	35.86	0.79	
125.	14.71	38.58	28.81	1.72						
150.	14.62	38.57	28.82	1.37						
200.	14.55	38.56	28.83	1.59	0.50	1.19	11.88	41.45	0.61	
250.	14.45	38.55	28.84	1.13						
300.	14.43	38.54	28.85	1.04	0.43		10.39	46.75	0.68	
400.	14.41	38.54	28.85	1.18	0.40	1.09	10.33	48.07	0.77	

STATION NUMBER: H-29  
 TOTAL DEPTH: 87.0 m.  
 PLACE:  
 DATE: 21-03-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

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

CHARACTER  
 LONGITUDE: 28. 0°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 7.25  
 SD/PH:  
 SM/PH:  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	9.86	23.99	18.39	12.25	0.72	0.41	0.11	5.50	2.76	10.25
5.	9.66	24.01	18.43	12.37						
10.	8.48	24.37	18.88	12.27	0.63	0.27	0.09	5.20	1.99	
15.	8.30	24.91	19.32	11.29						
20.	8.49	26.46	20.51	10.33						
25.	11.32	31.92	24.33	8.04	0.59	0.44	0.68	13.21	1.38	
30.	14.12	37.21	27.87	3.57						
40.	14.79	38.35	28.61	3.55						
50.	14.78	38.51	28.73	2.73	0.33	0.97	8.24	29.39	1.01	
60.	14.82	38.57	28.77	2.11						
70.	14.55	38.51	28.79	2.49						
75.	14.65	38.55	28.79	2.66	0.33	0.77	8.39	28.83	0.86	
80.	14.65	38.56	28.80	2.37						



STATION NUMBER: H-30 SEASON:  
 TOTAL DEPTH: 45.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 21-03-89 TIME: 21:10 LONGITUDE: 28.0°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.34°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS:  
 SD/Hg: SD/Cd: SD/PH:  
 SA/Hg: 2.1 SA/Cd: SA/PH:  
 SH/Hg: SA/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N			CHL-a
							+	Si	TOC	
0.	10.14	23.78	18.19	13.02	0.65	0.37	0.11	5.20		

STATION NUMBER: H-31 SEASON:  
 TOTAL DEPTH: 50.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 21-03-89 TIME: 19:15 LONGITUDE: 28.0°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.25°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS:  
 SD/Hg: SD/Cd: SD/PH:  
 SA/Hg: 8.6 SA/Cd: SA/PH: 0.66  
 SH/Hg: SA/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N			CHL-a
							+	Si	TOC	
0.	9.31	24.65	18.99	11.57	0.80	0.42	0.13	5.99	2.10	

STATION NUMBER: H-32 SEASON:  
 TOTAL DEPTH: 32.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 21-03-89 TIME: 18:15 LONGITUDE: 27.57°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.22°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS:  
 SD/Hg: SD/Cd: SD/PH:  
 SA/Hg: 5.0 SA/Cd: SA/PH:  
 SH/Hg: SA/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N			CHL-a
							+	Si	TOC	
0.	10.03	24.32	18.62	12.36	0.85	0.72	0.12	5.69	2.27	
5.	9.99	24.31	18.62	12.20						
10.	9.73	24.37	18.71	12.24						
15.	8.92	25.18	19.45	12.16						
20.	9.33	28.58	22.05	8.53						
25.	11.36	33.27	25.37	6.23						
27.	11.36	33.27	25.37	6.23	0.56	0.68	0.94	13.06	1.43	

STATION NUMBER: M-44 SEASON:  
 TOTAL DEPTH: 82.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 20-03-89 TIME: 20:15 LONGITUDE: 27.15°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.35°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS:  
 SD/Hg: SD/Cd: SD/PH:  
 SW/Hg: 7.1 SW/Cd: SW/PH:  
 SH/Hg: SH/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	9.21	24.76	19.09	11.55	0.87	0.30	0.13	5.60	1.95	4.84	
5.	9.22	24.76	19.09	11.57							
10.	9.20	24.76	19.09	11.65	0.63	0.36	0.19	5.52	1.94		
15.	8.69	24.82	19.20	11.60							
20.	8.53	25.03	19.39	11.13							
25.	8.95	26.97	20.84	10.46							
30.	13.38	37.26	28.08	6.94	0.32	0.49	1.15	12.47	0.87		
40.	14.17	38.20	28.63	5.09							
50.	14.55	38.43	28.72	3.62	0.26	0.97	7.36	24.74	0.49		
60.	14.74	38.54	28.77	2.70							
70.	14.69	38.56	28.79	2.03							
75.	14.70	38.56	28.79	1.98		0.90	9.96	31.80	0.59		

STATION NUMBER: M-45 SEASON:  
 TOTAL DEPTH: 82.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 20-03-89 TIME: 20:45 LONGITUDE: 27.17°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.33°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS:  
 SD/Hg: SD/Cd: SD/PH:  
 SW/Hg: SW/Cd: SW/PH:  
 SH/Hg: SH/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	HI	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	9.33	24.68	19.00	10.82	0.70	0.30	0.60	5.55	2.18		
5.	9.33	24.68	19.00	10.99							
10.	8.36	24.83	19.25	11.13	0.82	0.30	0.13	5.57	1.87		
15.	8.50	25.03	19.39	10.34							
20.	8.38	25.46	19.74	10.30	0.82	0.28	0.11	6.09	1.66		
25.	9.31	27.45	21.17	9.74							
30.	12.31	35.70	27.07	7.38	0.21	0.40	2.42	10.16	0.67		
40.	13.91	38.16	28.65	5.19							
50.	13.22	38.52	29.08	5.57	0.35	0.36	1.59	4.68	0.59		
60.	13.06	38.59	29.17	7.36							
70.	13.08	38.64	29.20	7.36							

ÇİZELGE-7: EYLÜL, 1989 DÖNEMİNDE MARMARA DENİZİ VE BOĞAZLARI  
BOYUNCA STANDARD DERİNLİKLERDE ÖLÇÜLEN  
BİYOKİMYASAL PARAMETRELERİN DEĞİŞİMİ

STATION NUMBER: M-7  
 TOTAL DEPTH: 1189.0 m.  
 PLACE:  
 DATE: 23-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 11:32  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 29.5°  
 LATITUDE: 40.44°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 1.40  
 SD/PH:  
 SM/PH: 0.90  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	N03-N +	Si	TOC	CHL-a N02-N
0.	18.55	25.22	17.67	6.14	0.59	0.14	0.42	10.17	1.78	
5.	18.46	25.54	17.94	6.22						

STATION NUMBER: M-8  
 TOTAL DEPTH: 200.0 m.  
 PLACE:  
 DATE: 23-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 13:53  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.52°  
 LATITUDE: 40.40°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 8.1  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 0.80  
 SD/PH:  
 SM/PH: 0.68  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	N03-N +	Si	TOC	CHL-a N02-N
0.	21.56	22.77	15.07	7.17	0.74	-11	0.17	0.87	2.17	
5.	21.33	22.77	15.13	8.46						

STATION NUMBER: M-9  
 TOTAL DEPTH: 1190.0 m.  
 PLACE:  
 DATE: 23-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 09:50  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 29. 0'  
 LATITUDE: 40.46'  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 1.14  
 SD/PH:  
 SW/PH: 1.12  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	INI	PO4-P	NO3-N +	Si	TOC	CHL-a	NO2-N
0.	20.96	22.95	15.36	7.71	0.68	-11	0.13	1.98	2.15	1.73	
5.	20.40	23.10	15.62	7.90							
10.	19.39	23.81	16.40	7.65	0.72	0.13	0.51	6.16	1.96	2.68	
15.	16.20	31.91	23.33	6.86							
20.	14.29	38.03	28.47	2.89	0.59	0.78	0.41	28.94	0.69	0.20	
25.	14.56	38.18	28.53	.86							
30.	14.63	38.30	28.60	.85	0.56	1.19	5.12	35.33	0.57	0.09	
40.	14.70	38.42	28.68	.89	0.61	1.24	7.54	35.42	0.61		
50.	14.72	38.48	28.73	.96							
60.	14.72	38.52	28.75	.93	0.63	1.31	9.36	38.06	0.53		
70.	14.71	38.54	28.77	1.02							
75.	14.68	38.54	28.78	1.00							
80.	14.67	38.55	28.79	.88	0.54	1.30	9.66	39.92	0.50		
90.	14.65	38.56	28.80	.92							
100.	14.62	38.56	28.81	1.11	0.40	1.25	10.46	44.03	0.47		
125.	14.56	38.56	28.82	1.08							
150.	14.51	38.56	28.83	1.09	0.36						
200.	14.44	38.54	28.84	.90	0.70	1.21	10.37	46.53	0.47		
250.	14.40	38.54	28.85	.89	0.65	1.23	9.99	48.47	0.45		
300.	14.39	38.54	28.85	.94							
400.	14.39	38.54	28.86	1.19							
500.	14.40	38.54	28.86	1.39	0.77	1.13	9.27	46.44	0.47		
600.	14.41	38.55	28.86	1.51							
700.	14.43	38.55	28.86	1.55							
750.	14.43	38.55	28.86	1.47	0.54	1.10	9.07	44.03	0.49		
800.	14.44	38.55	28.86	-1.39							
900.	14.45	38.55	28.86	1.65							

STATION NUMBER: M-12	SEASON:	
TOTAL DEPTH: 60.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 26-09-89	TIME: 23:27	LONGITUDE: 28.34°
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.57°
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 1.12
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 12.0	SW/Cd:	SM/PH: 0.56
SM/Hg:	SM/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N		Si	TOC	CHL-a
							+	NO2-N			
0.	21.07	23.01	15.38	8.05	0.79	0.14	0.08	0.81			
5.	21.06	23.01	15.38	8.22							

STATION NUMBER: M-13	SEASON:	
TOTAL DEPTH: 800.0 m.	STATION TYPE:	
PLACE:		CHARACTER
DATE: 23-09-89	TIME: 18:03	LONGITUDE: 28.40°
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	LATITUDE: 40.50°
CLOUD:	WAVE STATE:	WIND:
SECCHI DISK DEPTH:	VISIBILITY:	WIND DIRECTION:
OS:	TR:	TSS: 1.40
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 1.9	SW/Cd:	SM/PH: 0.62
SM/Hg:	SM/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N		Si	TOC	CHL-a
							+	NO2-N			
0.	21.29	22.81	15.17	8.34	0.54	-11	0.12	0.78	2.21		
5.	21.29	22.81	15.17	8.32							

STATION NUMBER: M-14 SEASON:  
TOTAL DEPTH: 700.0 m. STATION TYPE:  
PLACE: CHARACTER  
DATE: 23-09-89 TIME: 16:33 LONGITUDE: 28.40'  
BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.45'  
CLOUD: WAVE STATE: WIND:  
SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 1.10  
SD/Hg: SD/Cd: SD/PH:  
SH/Hg: 3.9 SH/Cd: SH/PH: 0.60  
SI/Hg: SI/Cd: FC/0m.:  
BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	21.89	22.85	15.05	8.14				0.52	2.24	1.65
5.	21.88	22.85	15.05	8.16						
10.	21.32	22.89	15.22	8.26						1.54
15.	21.22	22.87	15.23	8.05						
20.	17.23	30.50	22.01	8.44						2.53
25.	14.26	37.72	28.23	.64						
30.	14.56	38.18	28.52	.72						0.38
40.	14.73	38.41	28.67	1.25						0.10
50.	14.76	38.50	28.73	1.74						

STATION NUMBER: M-15 SEASON:  
TOTAL DEPTH: 370.0 m. STATION TYPE:  
PLACE: CHARACTER  
DATE: 23-09-89 TIME: 15:15 LONGITUDE: 28.40'  
BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.40'  
CLOUD: WAVE STATE: WIND:  
SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 0.84  
SD/Hg: SD/Cd: SD/PH:  
SH/Hg: 7.1 SH/Cd: SH/PH: 0.13  
SI/Hg: SI/Cd: FC/0m.:  
BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	PH	PO4-P	NO3-N + NO2-N	Si	TOC	CHL-a
0.	21.69	22.63	14.93	8.88	0.68	-11	0.34	0.64	2.19	
5.	21.67	22.84	15.10	8.59						
10.	21.64	22.95	15.19	8.56	0.75	-11	0.16	0.70	2.23	
15.	21.59	22.99	15.23	8.53						
20.	18.83	26.54	18.59	8.89	0.63	0.19	0.31	10.00	2.13	
25.	14.21	37.56	28.12	1.19						
30.	14.67	38.28	28.58	.97	0.52	0.75	1.26	28.19	0.59	
40.	14.74	38.45	28.49	1.36	0.41	0.97	7.43	34.44	0.51	
50.	14.76	38.52	28.75	1.42						
60.	14.74	38.56	28.78	1.39	0.61	1.10	9.28	37.78	0.51	
70.	14.70	38.56	28.79	1.36						
75.	14.67	38.56	28.80	1.39						
80.	14.65	38.56	28.81	1.32	0.61	0.77	7.50	39.44	0.62	
90.	14.63	38.56	28.81	1.28						
100.	14.59	38.56	28.82	1.24	0.42	0.99	8.44	44.03	0.47	
125.	14.53	38.56	28.83	1.12						
150.	14.47	38.55	28.84	.99	0.43	0.94	7.83	45.56	0.47	
200.	14.42	38.54	28.84	.94	0.47	0.85	6.93	48.47	0.43	
250.	14.39	38.54	28.85	.97	0.47	0.92	7.57	49.72	0.45	
300.	14.38	38.54	28.85	1.19	0.50	1.11	9.12	49.17	0.52	

STATION NUMBER: M-16 SEASON:  
 TOTAL DEPTH: 150.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 23-09-89 TIME: 23:10 LONGITUDE: 28.40°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.33°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 1.92  
 SD/Hg: SD/Cd: SD/PH:  
 SW/Hg: 3.7 SW/Cd: SW/PH: 0.50  
 SI/Hg: SI/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	WI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.21	22.89	15.25	0.18	0.77	-11	0.11	1.05	2.19	
5.	21.22	22.90	15.25	0.21						

STATION NUMBER: M-17 SEASON:  
 TOTAL DEPTH: 70.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 24-08-89 TIME: 01:51 LONGITUDE: 29.4°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.27°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 1.18  
 SD/Hg: SD/Cd: SD/PH:  
 SW/Hg: 4.7 SW/Cd: SW/PH: 0.05  
 SI/Hg: SI/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	WI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	20.33	24.21	16.47	7.74	0.74	-11	0.13	3.55	1.89	
5.	20.34	24.21	16.47	7.76						
10.	20.22	24.28	16.55	7.77	0.65	0.15	0.12	3.43	2.13	
15.	19.77	24.79	17.05	7.67						
20.	17.03	29.00	20.91	6.09	0.95	0.33	0.42	9.72	1.62	
25.	15.47	35.54	26.29	2.87						
30.	14.48	37.65	28.14	2.40	0.61	0.66	1.61	24.31	0.85	
40.	14.73	38.29	28.58	1.58						
50.	14.76	38.42	28.67	1.45	0.43	1.13	6.57	33.75	0.83	
60.	14.71	38.54	28.77	1.09						

STATION NUMBER: M-18 SEASON:  
 TOTAL DEPTH: 107.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 24-09-89 TIME: 03:03 LONGITUDE: 28.57°  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.24°  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 1.08  
 SD/Hg: SD/Cd: SD/PH:  
 SW/Hg: 5.91 SW/Cd: SW/PH: 0.42  
 SI/Hg: SI/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	WI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	20.20	24.28	16.56	7.75	0.83			3.20	2.28	
5.	20.13	24.37	16.65	7.87						



STATION NUMBER: M-19  
 TOTAL DEPTH: 67.0 m.  
 PLACE:  
 DATE: 24-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 04:24  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.44°  
 LATITUDE: 40.26°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 1.6  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 2.92  
 SD/PH:  
 SM/PH: 0.98  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	19.83	24.53	16.84	7.80	0.68	-11	0.12	3.55	2.29	
5.	19.89	24.58	16.86	7.82						

STATION NUMBER: M-20  
 TOTAL DEPTH: 60.0 m.  
 PLACE:  
 DATE: 24-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 06:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.30°  
 LATITUDE: 40.28°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SM/Hg: 12.6  
 SH/Hg:  
 BOD-5:

TR:  
 SD/Cd:  
 SM/Cd:  
 SH/Cd:

TSS: 0.36  
 SD/PH:  
 SM/PH: 0.30  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	HM	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.27	22.83	15.19	7.85	0.70	-11	0.11	0.81	2.12	
5.	21.27	22.83	15.19	7.88						

STATION NUMBER: H-21  
 TOTAL DEPTH: 60.0 m.  
 PLACE:  
 DATE: 14-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 07:22  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20'  
 LATITUDE: 40.32'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 8.3  
 SM/Hg:  
 BOD-5:

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

TSS: 1.74  
 SD/PH:  
 SW/PH: 0.65  
 FC/0m. :  
 FC/2m. :

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	20.71	23.36	15.74	7.78	0.65	-11	0.10	2.21	2.29	
5.	20.71	23.36	15.74	7.74						

STATION NUMBER: H-22  
 TOTAL DEPTH: 130.0 m.  
 PLACE:  
 DATE: 24-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 08:25  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20'  
 LATITUDE: 40.40'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 10.4  
 SM/Hg:  
 BOD-5:

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

TSS: 0.96  
 SD/PH:  
 SW/PH: 0.69  
 FC/0m. :  
 FC/2m. :

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.23	22.91	15.26	7.78	0.86	-11	-11	0.81	2.23	
5.	21.23	22.91	15.26	7.76						

STATION NUMBER: M-24  
 TOTAL DEPTH: 720.0 m.  
 PLACE:  
 DATE: 24-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 10:18  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.20'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 1.6  
 SH/Hg:  
 BOD-5:

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

TSS: 1.90  
 SD/PH:  
 SW/PH: 0.95  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	20.90	22.73	15.21	8.15	0.88	-11	-11	1.16	2.17		
5.	20.90	22.73	15.21	8.31							
10.	20.87	22.75	15.23	8.28	0.62	-11	-11	1.69	2.21		
15.	20.62	23.33	15.74	8.27							
20.	19.05	25.14	17.48	8.37	0.72	-11	-11	2.78	2.10		
25.	13.86	36.69	27.53	1.40							
30.	14.53	38.14	28.50	.60	0.46	0.75	0.73	27.78	0.65		
40.	14.85	38.43	28.66	1.28	0.45	1.14	9.22	32.78	0.57		
50.	14.84	38.51	28.72	1.57							
60.	14.80	38.54	28.75	1.38	0.47	1.20	9.89	36.94	0.53		
70.	14.74	38.56	28.77	1.51							
75.	14.74	38.56	28.78	1.44							
80.	14.73	38.56	28.78	1.45	0.46	1.12	9.89	36.94	0.54		
90.	14.71	38.56	28.79	1.17							
100.	14.69	38.56	28.80	1.30	0.61	1.13	9.96	39.31	0.54		
125.	14.65	38.56	28.81	1.42							
150.	14.58	38.56	28.82	1.27	0.45	1.15	10.01	39.50	0.55		
200.	14.50	38.55	28.93	1.21	0.52	1.25	10.40	45.19	0.51		
250.	14.42	38.54	28.84	.99	0.47	1.22	10.34	49.03	0.52		
300.	14.40	38.54	28.85	1.07							
400.	14.39	38.54	28.85	1.24							
500.	14.40	38.54	28.86	1.48	0.51	1.07	9.10	45.89	0.53		
600.	14.41	38.55	28.87	2.03							
700.	14.39	38.55	28.87	2.15							

STATION NUMBER: M-25  
 TOTAL DEPTH: 61.0 m.  
 PLACE:  
 DATE: 26-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 21:48  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28.15'  
 LATITUDE: 41. 0'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 4.4  
 SH/Hg:  
 BOD-5:

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

TSS: 0.96  
 SD/PH:  
 SW/PH: 0.38  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	20.14	24.31	16.60	7.84	0.68	0.13	0.06	0.70	2.17		
5.	21.00	23.17	15.52	8.07							

STATION NUMBER: H-26  
 TOTAL DEPTH: 700.0 m.  
 PLACE:  
 DATE: 26-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 19:46  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.55'  
 WIND:  
 WIND DIRECTION:

DS:  
 SD/Hg:  
 SW/Hg: 12.0  
 SH/Hg:  
 BOD-5:

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

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

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N		Si	TOC	CHL-a
							+	NO2-N			
0.	21.80	23.08	15.24	7.21	0.81	0.14	0.07	0.87	2.22		
5.	21.38	23.03	15.31	7.71							

STATION NUMBER: H-27  
 TOTAL DEPTH: 1250.0 m.  
 PLACE:  
 DATE: 24-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 22:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 28. 0'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

DS:  
 SD/Hg:  
 SW/Hg: 10.1  
 SH/Hg:  
 BOD-5:

TR:  
 SW/Cd:  
 SH/Cd:

TSS: 0.46  
 SD/PH:  
 SW/PH: 0.61  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	NH	PO4-P	NO3-N		Si	TOC	CHL-a
							+	NO2-N			
0.	21.23	23.00	15.33	7.96	0.88	-11	-11	0.99	2.24	0.16	
5.	21.23	23.00	15.33	8.01							
10.	21.11	23.08	15.42	7.97	0.75	-11	0.18	1.10	2.22	2.41	
15.	20.66	23.60	15.93	7.91							
20.	17.25	28.08	20.15	8.03	0.86	0.12	-11	3.33	1.99	1.79	
25.	15.01	37.62	27.99	2.11							
30.	15.19	38.28	28.46	3.18	0.48	0.46	0.86	18.47	0.63	0.24	
40.	14.86	38.47	28.68	1.82	0.54	0.98	7.49	29.58	0.60	0.14	
50.	14.84	38.53	28.73	1.53							
60.	14.80	38.55	28.76	1.60	0.56	1.05	9.46	35.14	0.55		
70.	14.77	38.56	28.77	1.49							
75.	14.74	38.56	28.78	1.54							
80.	14.71	38.56	28.79	1.56	0.41	0.96	9.11	34.78	0.52		
90.	14.68	38.57	28.80	1.57							
100.	14.65	38.57	28.81	1.59	0.45	0.96	9.70		0.52		
125.	14.59	38.56	28.82	1.55							
150.	14.52	38.56	28.83	1.37							
200.	14.46	38.55	28.84	1.14	0.43	1.04	9.93	42.64	0.52		
250.	14.44	38.55	28.84	1.20	0.47	1.07	10.02	46.67	0.50		
300.	14.41	38.54	28.85	1.22							
400.	14.41	38.55	28.86	1.62							
500.	14.42	38.56	28.86	2.08	0.54	0.93	8.97	41.39	0.47		
600.	14.40	38.55	28.87	2.18							
700.	14.39	38.55	28.87	2.11							
750.	14.39	38.55	28.87	2.20	0.43	0.93	8.65	38.53	0.52		
800.	14.39	38.55	28.88	2.28							
900.	14.40	38.55	28.88	2.32							
1000.	14.40	38.55	28.88	2.32	0.52	0.89	8.28	37.89	0.53		

STATION NUMBER: H-28	SEASON:	CHARACTER
TOTAL DEPTH: 750.0 m.	STATION TYPE:	LONGITUDE: 28. 0'
PLACE:		LATITUDE: 40.45'
DATE: 24-09-89	TIME: 20:55	WIND:
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	WIND DIRECTION:
CLOUD:	WAVE STATE:	
SECCHI DISK DEPTH:	VISIBILITY:	
OS:	TR:	TSS: 1.12
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 7.9	SW/Cd:	SW/PH: 1.16
SM/Hg:	SM/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	IM	P04-P	NO3-N +	Si	TOC	CHL-a
0.	21.26	22.91	15.25	7.92	0.74	-11	-11	0.99	2.23	
5.	21.26	22.90	15.25	7.96						

STATION NUMBER: H-29	SEASON:	CHARACTER
TOTAL DEPTH: 101.0 m.	STATION TYPE:	LONGITUDE: 28. 0'
PLACE:		LATITUDE: 40.40'
DATE: 24-09-89	TIME: 19:53	WIND:
BAROMETRIC PRESSURE:	AIR TEMPERATURE:	WIND DIRECTION:
CLOUD:	WAVE STATE:	
SECCHI DISK DEPTH:	VISIBILITY:	
OS:	TR:	TSS: 1.95
SD/Hg:	SD/Cd:	SD/PH:
SW/Hg: 7.5	SW/Cd:	SW/PH: 0.43
SM/Hg:	SM/Cd:	FC/0m.:
BOD-5:		FC/2m.:

DEPTH	T	S	SI-T	DO	IM	P04-P	NO3-N +	Si	TOC	CHL-a
0.	21.29	22.90	15.24	8.00	0.63	-11		0.99	2.23	
5.	21.30	22.90	15.23	8.14						
10.	21.05	23.14	15.48	8.19	0.65	-11		2.33	2.24	
15.	20.13	24.08	16.42	7.85						
20.	15.43	31.47	23.17	7.52	0.81	0.37	0.39	15.14	1.23	
25.	14.59	37.66	28.12	1.08						
30.	15.20	38.39	28.54	2.49	0.47	0.55	0.98	18.06	0.61	
40.	14.87	38.53	28.73	2.71	0.39	0.92	8.06	29.86	0.56	
50.	14.81	38.56	28.76	1.94						
60.	14.81	38.59	28.79	2.02	0.43	0.85	8.80	34.08	0.61	
70.	14.86	38.62	28.80	2.59						
75.	14.89	38.63	28.80	2.87						
80.	14.87	38.63	28.81	3.00	0.52			32.50	0.57	
90.	14.88	38.63	28.81	3.08						

STATION NUMBER: M-30      SEASON:  
TOTAL DEPTH: 50.0 m.      STATION TYPE:  
PLACE:      CHARACTER  
DATE: 24-09-89      TIME: 19:00      LONGITUDE: 28. 0'  
BAROMETRIC PRESSURE:      AIR TEMPERATURE:      LATITUDE: 40.34'  
CLOUD:      WAVE STATE:      WIND:  
SECCHI DISK DEPTH:      VISIBILITY:      WIND DIRECTION:

OS:      TR:      TSS: 1.03  
SD/Hg:      SD/Cd:      SD/PH:  
SW/Hg: 3.0      SW/Cd:      SW/PH: 0.50  
SH/Hg:      SH/Cd:      FC/0m.:  
BOD-5:      FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.44	22.98	15.26	8.22	0.97	-11	-11	1.16	2.25	
5.	21.44	22.98	15.26	8.27						

STATION NUMBER: M-31      SEASON:  
TOTAL DEPTH: 53.0 m.      STATION TYPE:  
PLACE:      CHARACTER  
DATE: 24-09-89      TIME: 16:06      LONGITUDE: 28. 8'  
BAROMETRIC PRESSURE:      AIR TEMPERATURE:      LATITUDE: 40.25'  
CLOUD:      WAVE STATE:      WIND:  
SECCHI DISK DEPTH:      VISIBILITY:      WIND DIRECTION:

OS:      TR:      TSS: 2.25  
SD/Hg:      SD/Cd:      SD/PH:  
SW/Hg: 2.2      SW/Cd:      SW/PH: 0.24  
SH/Hg:      SH/Cd:      FC/0m.:  
BOD-5:      FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.02	23.80	15.99	8.27	0.70	0.16	-11	2.09	2.25	
5.	21.01	23.81	16.00	8.32						

STATION NUMBER: M-32      SEASON:  
TOTAL DEPTH: 32.0 m.      STATION TYPE:  
PLACE:      CHARACTER  
DATE: 24-09-89      TIME: 17:10      LONGITUDE: 27.57'  
BAROMETRIC PRESSURE:      AIR TEMPERATURE:      LATITUDE: 40.22'  
CLOUD:      WAVE STATE:      WIND:  
SECCHI DISK DEPTH:      VISIBILITY:      WIND DIRECTION:

OS:      TR:      TSS: 2.15  
SD/Hg:      SD/Cd:      SD/PH:  
SW/Hg: 7.6      SW/Cd:      SW/PH: 1.09  
SH/Hg:      SH/Cd:      FC/0m.:  
BOD-5:      FC/2m.:

DEPTH	T	S	SI-T	DO	NI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.25	23.29	15.54	8.25	0.82	1.26	-11	1.34	2.31	
5.	21.23	23.29	15.55	8.21						
10.	21.16	23.32	15.59	8.19	0.81	1.42	-11	1.92	2.26	
15.	20.99	23.37	15.67	8.15						
20.	18.22	30.43	21.73	7.05						
25.	16.10	37.00	27.27	3.26	0.38	0.65	2.21	12.78	0.79	

STATION NUMBER: M-33  
 TOTAL DEPTH: 820.0 m.  
 PLACE:  
 DATE: 24-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 01:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.53°  
 LATITUDE: 40.50°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SM/Cd:

TSS: 1.12  
 SD/PH:  
 SW/PH: 1.33  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	150.98	*****	*****	*****	0.68	-11	-11	1.34	2.22	
5.	94.70	*****	*****	*****	-56.14					

STATION NUMBER: M-34  
 TOTAL DEPTH: 1052.0 m.  
 PLACE:  
 DATE: 26-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 16:57  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.40°  
 LATITUDE: 40.52°  
 WIND:  
 WIND DIRECTION:

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

TR:  
 SD/Cd:  
 SM/Cd:  
 SM/Cd:

TSS: 0.13  
 SD/PH:  
 SW/PH: 0.67  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.55	23.09	15.32	8.13	0.86	0.12	0.05	0.87	2.22	
5.	21.32	23.13	15.40	8.39						

STATION NUMBER: M-35  
 TOTAL DEPTH: 1140.0 m.  
 PLACE:  
 DATE: 26-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 14:42  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.34'  
 LATITUDE: 40.50'  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 2.5  
 SD/PH:  
 SW/PH: 0.80  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N		SI	TOC	CHL-a
							+	NO2-N			
0.	21.66	23.03	15.25	8.37	0.81	-11	-11	0.64	2.15	0.96	
5.	21.47	23.05	15.30	8.50							
10.	21.16	23.03	15.37	8.56	0.92	0.13	0.06	0.64	2.12	2.12	
15.	21.09	23.02	15.38	8.36							
20.	16.28	35.75	26.26	6.68	0.86	0.16	0.07	0.93	0.64	0.14	
25.	15.33	38.18	28.36	3.66							
30.	15.40	38.46	28.55	4.08	0.43	0.42	0.70	16.67	0.66	0.11	
40.	15.14	38.57	28.70	3.65	0.43	0.64	3.77	20.14	0.59	0.08	
50.	15.00	38.59	28.75	3.29	0.50	0.87	7.23	26.25	0.58		
60.	14.81	38.57	28.77	2.02							
70.	14.75	38.57	28.78	1.47							
75.	14.73	38.57	28.79	1.47							
80.	14.71	38.56	28.79	1.42	0.48	1.12	10.20	37.92	0.52		
90.	14.68	38.57	28.80	1.45							
100.	14.66	38.57	28.81	1.55	0.52	1.06	11.55	37.92	0.57		
125.	14.62	38.57	28.81	1.60							
150.	14.60	38.57	28.82	1.58	0.44	1.05	9.65	37.78	0.53		
200.	14.50	38.56	28.84	1.34	0.60	1.14	10.52	46.39	0.52		
250.	14.47	38.56	28.84	1.33	0.43	1.10	10.32	46.67	0.49		
300.	14.42	38.54	28.85	1.20							
400.	14.51	38.57	28.85	1.94							
500.	14.43	38.56	28.86	1.94	0.29	0.99	8.80	40.28	0.52		
600.	14.41	38.56	28.87	2.20							
700.	14.41	38.56	28.88	2.45							
750.	14.39	38.56	28.88	2.45	0.25	0.95	8.34	36.39	0.54		
800.	14.37	38.56	28.89	2.46							
900.	14.35	38.55	28.89	2.56							
1000.	14.24	38.55	28.89	2.58							

STATION NUMBER: M-36  
 TOTAL DEPTH: 400.0 m.  
 PLACE:  
 DATE: 26-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 11:03  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.28'  
 LATITUDE: 40.42'  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 0.78  
 SD/PH:  
 SW/PH: 0.32  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N		SI	TOC	CHL-a
							+	NO2-N			
0.	21.32	23.11	15.39	4.64	0.86	-11	-11	0.46	2.13		
5.	21.28	23.12	15.40	7.03							



STATION NUMBER: M-37  
 TOTAL DEPTH: 500.0 m.  
 PLACE:  
 DATE: 25-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 02:00  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.48°  
 LATITUDE: 40.42°  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 7.2  
 SM/Hg:  
 ROD-5:

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

TSS: 0.86  
 SD/PH:  
 SW/PH: 0.78  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	P04-P	NO3-N +	Si	TOC	CHL-a
0.	21.05	23.07	15.43	7.86	0.77	-11	-11	1.05	2.18	
5.	21.05	23.07	15.43	7.86						

STATION NUMBER: M-38  
 TOTAL DEPTH: 88.0 m.  
 PLACE:  
 DATE: 25-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 04:51  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.34°  
 LATITUDE: 40.33°  
 WIND:  
 WIND DIRECTION:

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

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

TSS: 0.92  
 SD/PH:  
 SW/PH: 0.52  
 FC/0m.:  
 FC/2m.:

DEPTH	T	S	SI-T	DO	IM	P04-P	NO3-N +	Si	TOC	CHL-a
0.	20.86	23.11	15.51	7.90	0.79	-11	0.70	1.16	2.17	
5.	20.86	23.11	15.51	7.97						

STATION NUMBER: M-39 SEASON:  
 TOTAL DEPTH: 42.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 25-09-89 TIME: 06:26 LONGITUDE: 27.40'  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.25'  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 0.66  
 SD/Hg: SD/Cd: SD/PH:  
 SM/Hg: SM/Cd: SM/PH: 0.80  
 SM/Hg: SM/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.26	23.84	15.95	7.97	0.74	-11	NO2-N			
5.	21.27	23.84	15.95	8.03			0.15	1.10	2.11	

STATION NUMBER: M-40 SEASON:  
 TOTAL DEPTH: 54.0 m. STATION TYPE:  
 PLACE: CHARACTER  
 DATE: 25-09-89 TIME: 07:32 LONGITUDE: 27.29'  
 BAROMETRIC PRESSURE: AIR TEMPERATURE: LATITUDE: 40.26'  
 CLOUD: WAVE STATE: WIND:  
 SECCHI DISK DEPTH: VISIBILITY: WIND DIRECTION:

OS: TR: TSS: 0.86  
 SD/Hg: SD/Cd: SD/PH:  
 SM/Hg: 1.1 SM/Cd: SM/PH: 0.86  
 SM/Hg: SM/Cd: FC/0m.:  
 BOD-5: FC/2m.:

DEPTH	T	S	SI-T	DO	MI	PO4-P	NO3-N +	Si	TOC	CHL-a
0.	21.15	23.55	15.77	8.07	0.74	-11	NO2-N			
5.	21.15	23.55	15.77	8.09			-11	1.45	2.21	



STATION NUMBER: M-43  
 TOTAL DEPTH: 122.0 m.  
 PLACE:  
 DATE: 25-09-89  
 BAROMETRIC PRESSURE:  
 CLOUD:  
 SECCHI DISK DEPTH:

SEASON:  
 STATION TYPE:  
 TIME: 09:40  
 AIR TEMPERATURE:  
 WAVE STATE:  
 VISIBILITY:

CHARACTER  
 LONGITUDE: 27.22'  
 LATITUDE: 40.38'  
 WIND:  
 WIND DIRECTION:

OS:  
 SD/Hg:  
 SW/Hg: 5.6  
 SH/Hg:  
 BOD-5:

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

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

DEPTH	T	S	SI-T	DO	IM	PO4-P	NO3-N +	Si	TOC	CHL-a	
							NO2-N				
0.	21.30	23.14	15.42	8.19	0.70	-11	0.21	0.58	2.21		
5.	21.29	23.14	15.42	8.13							
10.	21.21	23.21	15.49	8.18							
15.	21.07	23.29	15.59	8.17							
20.	18.35	31.47	22.50	8.26							
25.	16.85	38.56	28.28	6.37							
30.	16.41	38.80	28.58	7.34							
40.	15.08	38.58	28.72	4.86							
50.	14.90	38.57	28.75	2.81							
60.	14.80	38.57	28.77	2.04							
70.	14.77	38.57	28.78	1.63							
75.	14.75	38.57	28.79	1.77							
80.	14.73	38.57	28.79	1.70							
90.	14.70	38.57	28.80	1.44							
100.	14.71	38.58	28.81	1.68							

ÇİZELGE-8: ŞUBAT, 1989 DÖNEMİNDE MARMARA DENİZİ VE BOĞAZLARI  
BOYUNCA STANDARD DERİNLİKLERDE ÖLÇÜLEN  
FİZİKSEL PARAMETRELERİN DEĞİŞİMİ

STA.:M-2            DATE/TIME:13-02-89/16:55    TOT.DEPTH:    50.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	7.669	20.978	7.918
10.0	8.283	21.944	7.480
20.0	9.784	27.714	6.771
30.0	13.178	34.469	5.537

STA.:M-1            DATE/TIME:13-02-89/17:10    TOT.DEPTH:    60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	7.209	19.359	7.817
10.0	8.270	23.048	7.402
20.0	10.675	29.189	6.437
30.0	13.536	35.042	4.158
50.0	14.861	38.227	1.715

STA.:M-11            DATE/TIME:14-02-89/09:15    TOT.DEPTH:    77.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	7.104	22.869	6.671
10.0	7.150	23.059	8.193
20.0	7.058	24.233	8.157
30.0	13.360	34.861	3.771
50.0	14.931	38.363	1.527

STA.:M-3            DATE/TIME:14-02-89/14:25    TOT.DEPTH:    70.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.337	24.618	8.662
20.0	9.191	28.148	7.016
30.0	13.097	34.492	4.543
50.0	14.831	38.068	1.628

STA.:M-6            DATE/TIME:14-02-89/20:10    TOT.DEPTH:    29.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	8.145	26.626	7.238
20.0	8.379	27.563	7.461

STA.:M-5            DATE/TIME:14-02-89/23:10    TOT.DEPTH:    150.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	7.584	24.326	7.171
10.0	7.973	25.484	7.781
20.0	7.323	28.381	7.169
30.0	13.894	35.951	3.812
50.0	14.878	38.293	1.235
75.0	14.866	38.445	.944
100.0	14.856	38.465	.721

STA.:M-8 DATE/TIME:15-02-89/09:45 TOT.DEPHTH: 300.0 m

DEP(M)	TEM(C)	SAL(ppT)	OX(ml/l)
10.0	6.939	24.327	8.654
20.0	6.925	24.538	8.644
30.0	14.527	37.105	5.598
50.0	14.947	38.474	1.911
75.0	14.847	38.561	1.492
100.0	14.745	38.575	1.401
150.0	14.656	38.585	1.401
200.0	14.450	38.549	.743
250.0	14.374	38.542	.672

STA.:M-17 DATE/TIME:15-02-89/12:30 TOT.DEPHTH: 68.0 m.

DEP(M)	TEM(C)	SAL(ppT)	OX(ml/l)
10.0	7.523	26.067	8.686
20.0	7.639	26.436	8.099
30.0	14.520	37.010	6.282
50.0	14.962	38.445	2.163

STA.:M-18 DATE/TIME:15-02-89/13:55 TOT.DEPHTH: 100.0 m.

DEP(M)	TEM(C)	SAL(ppT)	OX(ml/l)
10.0	7.434	26.333	8.908
20.0	7.516	26.862	8.338
30.0	13.669	35.272	5.412
50.0	14.969	38.397	2.346
75.0	14.861	38.540	1.627
100.0	14.772	38.569	1.226

STA.:M-19 DATE/TIME:15-02-89/14:55 TOT.DEPHTH: 64.0 m.

DEP(M)	TEM(C)	SAL(ppT)	OX(ml/l)
1.0	7.287	24.603	10.070
10.0	7.519	25.499	8.403
20.0	7.942	26.381	8.022
30.0	13.722	35.466	5.053
50.0	14.767	38.543	1.658

STA.:M-16 DATE/TIME:15-02-89/16:00 TOT.DEPHTH: 100.0 m.

DEP(M)	TEM(C)	SAL(ppT)	OX(ml/l)
1.0	7.004	24.541	8.819
10.0	6.975	24.546	8.706
20.0	8.234	26.251	8.079
30.0	13.556	35.284	4.784
50.0	14.904	38.499	1.584
75.0	14.784	38.543	1.805
100.0	14.612	38.579	1.447

STA.:M-15 DATE/TIME:15-02-89/16:50 TOT.DEPTH: 350.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.058	24.561	8.733
20.0	6.936	24.805	8.179
30.0	13.698	35.584	4.338
50.0	14.972	38.396	1.745
75.0	14.797	38.553	1.366
100.0	14.609	38.542	.958
150.0	14.492	38.554	.745
200.0	14.406	38.543	.648
250.0	14.374	38.540	.616
300.0	14.355	38.540	.658

STA.:M-14 DATE/TIME:15-02-89/18:05 TOT.DEPTH: 850.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.213	23.869	9.077
20.0	7.908	25.985	8.455
30.0	14.509	38.002	3.188
50.0	14.948	38.438	1.589
75.0	14.908	38.528	1.406
100.0	14.789	38.560	1.174
150.0	14.663	38.572	.916
200.0	14.505	38.555	.748
250.0	14.417	38.543	.608
300.0	14.375	38.540	.582
400.0	14.341	38.537	.682
500.0	14.327	38.537	.746
600.0	14.327	38.542	.933
700.0	14.316	38.543	1.053

STA.:M-13 DATE/TIME:15-02-89/19:55 TOT.DEPTH: 820.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	6.986	23.615	8.331
10.0	7.087	23.970	8.477
20.0	8.387	26.940	7.595
30.0	14.975	38.109	3.028
50.0	14.909	38.512	1.358
75.0	14.819	38.560	1.184
100.0	14.733	38.573	1.055
150.0	14.555	38.562	.816
200.0	14.453	38.550	.664
250.0	14.391	38.542	.615
300.0	14.357	38.539	.599
400.0	14.333	38.537	.742
500.0	14.318	38.537	.844

STA.:M-12 DATE/TIME:15-02-89/00:00 TOT.DEPTH: 50.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.450	23.473	7.513
20.0	7.520	25.825	7.468
30.0	13.554	35.266	4.662
50.0	14.922	38.406	1.487



STA.:M-25 DATE/TIME:15-02-89/23:15 TOT.DEPHT: 60.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	6.869	24.482	7.880
10.0	6.866	24.481	7.900
20.0	7.033	25.024	7.785
30.0	13.096	35.161	5.840
50.0	14.814	38.531	1.204

STA.:M-24 DATE/TIME:16-02-89/00:30 TOT.DEPHT: 730.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.955	24.422	9.244
20.0	6.852	24.634	8.091
30.0	11.890	31.742	6.818
50.0	14.941	38.424	1.440
75.0	14.885	38.542	1.202
100.0	14.785	38.568	1.009
150.0	14.628	38.571	.944
200.0	14.519	38.560	.764
250.0	14.459	38.551	.665
300.0	14.409	38.545	.666
400.0	14.354	38.538	.510
500.0	14.339	38.538	.757
600.0	14.328	38.543	.879

STA.:M-22 DATE/TIME:16-02-89/03:10 TOT.DEPHT: 125.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.948	24.457	8.414
20.0	6.863	24.719	8.456
30.0	10.056	30.458	6.805
50.0	14.802	38.475	2.441
75.0	14.745	38.563	1.161
100.0	14.641	38.573	.922

STA.:M-23 DATE/TIME:16-02-89/04:15 TOT.DEPHT: 280.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	7.008	24.537	8.362
20.0	7.347	25.087	7.945
30.0	13.224	34.632	6.340
50.0	14.944	38.439	1.554
75.0	14.847	38.546	1.214
100.0	14.777	38.568	1.142
150.0	14.663	38.586	1.381
200.0	14.478	38.557	.890

STA.:M-20 DATE/TIME:16-02-89/05:50 TOT.DEPHT: 52.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	7.404	25.337	7.877
20.0	8.295	27.166	7.353
30.0	14.301	36.733	5.087

STA.:M-21 DATE/TIME:16-02-89/06:50 TOT.DEPHTH: 50.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.982	24.461	8.572
20.0	8.236	26.463	8.053
30.0	13.729	35.642	5.184
50.0	14.856	38.475	2.123

STA.:M-31 DATE/TIME:16-02-89/08:05 TOT.DEPHTH: 50.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	7.015	25.302	8.238
20.0	7.309	25.759	7.938
30.0	14.611	37.570	3.502

STA.:M-32 DATE/TIME:16-02-89/09:10 TOT.DEPHTH: 30.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.785	25.356	7.711
20.0	6.966	25.314	7.569

STA.:M-30 DATE/TIME:16-02-89/11:15 TOT.DEPHTH: 44.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	7.249	24.568	8.882
20.0	9.174	27.707	8.119
30.0	13.919	36.504	3.913

STA.:M-29 DATE/TIME:16-02-89/12:00 TOT.DEPHTH: 80.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	7.318	25.110	7.901
10.0	7.285	25.162	8.477
20.0	7.688	25.608	8.235
30.0	11.341	31.290	6.669
50.0	14.933	38.503	3.069
75.0	14.760	38.571	1.908

STA.:M-28 DATE/TIME:16-02-89/12:45 TOT.DEPHTH: 100.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	7.006	24.548	8.258
20.0	7.193	24.661	8.448
30.0	8.432	27.450	7.690
50.0	14.956	38.485	2.641
75.0	14.796	38.544	1.458
100.0	14.733	38.556	1.407
150.0	14.714	38.584	1.783

STA : M-21      DATE/TIME:16-02-89/06:50      TOT.DEPTH: 53.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	6.982	24.461	8.572
20.0	8.236	26.463	8.053
30.0	13.729	35.642	5.184
50.0	14.856	38.475	2.123

STA : M-31      DATE/TIME:16-02-89/08:05      TOT.DEPTH: 50.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	7.015	25.302	8.238
20.0	7.309	25.759	7.938
30.0	14.611	37.570	3.502

STA: M-32      DATE/TIME:16-02-89/09:30      TOT.DEPTH: 30.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	6.785	25.356	7.711
20.0	6.966	25.514	7.563

STA : M-30      DATE/TIME:16-02-89/11:15      TOT.DEPTH: 44.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	7.249	24.568	8.887
20.0	9.174	27.707	8.119
30.0	13.919	36.504	3.913

STA: M-29      DATE/TIME:16-02-89/12:00      TOT.DEPTH: 98.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	7.318	25.110	7.901
10.0	7.285	25.162	8.477
20.0	7.688	25.608	8.235
30.0	11.341	31.290	6.669
50.0	14.933	38.503	3.069
75.0	14.760	38.571	1.908

STA: M-28      DATE/TIME:16-02-89/12:45      TOT.DEPTH: 800.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	7.036	24.548	8.258
20.0	7.193	24.661	8.448
30.0	8.432	27.450	7.690
50.0	14.996	38.485	2.641
75.0	14.796	38.544	1.458
100.0	14.733	38.556	1.407
150.0	14.714	38.584	1.783
200.0	14.589	38.576	1.335
250.0	14.471	38.557	.856
300.0	14.414	38.550	.872
400.0	14.376	38.548	.947
500.0	14.351	38.547	.984
600.0	14.348	38.555	1.377
700.0	14.319	38.553	1.396
750.0	14.314	38.553	1.401

STA.:M-28 DATE/TIME:16-02-89/12:45 TOT.DEPHTH: 800.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
200.0	14.589	38.576	1.335
250.0	14.471	38.557	.856
300.0	14.414	38.550	.872
400.0	14.376	38.548	.947
500.0	14.351	38.547	.984
600.0	14.348	38.555	1.377
700.0	14.319	38.553	1.396
750.0	14.314	38.553	1.401

STA.:M-28 DATE/TIME:16-02-89/12:45 TOT.DEPHTH: 800.0 m.  
upcast data

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	7.043	24.583	7.879
10.0	6.997	24.608	7.780
20.0	7.019	24.698	6.937
30.0	9.861	30.182	3.270
50.0	15.015	38.534	1.542
75.0	14.796	38.548	1.047
100.0	14.771	38.544	1.311
150.0	14.706	38.580	1.433
200.0	14.591	38.573	1.052
250.0	14.482	38.560	.805
300.0	14.421	38.551	.829
400.0	14.375	38.548	.927
500.0	14.354	38.550	1.099
600.0	14.348	38.555	1.409
700.0	14.318	38.553	1.339

STA.:M-27 DATE/TIME:16-02-89/14:30 TOT.DEPHTH: 1000.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	7.155	24.464	8.581
20.0	7.121	25.301	8.289
30.0	10.327	29.195	7.085
50.0	15.017	38.445	2.039
75.0	14.743	38.534	2.761
100.0	14.704	38.577	1.969
150.0	14.623	38.579	1.346
200.0	14.504	38.563	1.015
250.0	14.429	38.551	.780
300.0	14.392	38.544	.692
400.0	14.356	38.541	.767
500.0	14.350	38.546	.995
600.0	14.335	38.553	1.264
700.0	14.313	38.554	1.540
750.0	14.301	38.550	1.476
800.0	14.290	38.551	1.493

STA.:M-26 DATE/TIME:16-02-89/16:45 TOT.DEPHTH: 700.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	7.258	24.325	8.874
10.0	7.074	24.903	8.893
20.0	7.218	25.644	8.466

30.0	12.382	38.314	5.810
50.0	15.061	38.533	2.053
75.0	14.828	38.557	1.155
100.0	14.766	38.579	1.132
150.0	14.605	38.573	1.119
200.0	14.474	38.557	.891
250.0	14.420	38.548	.728
300.0	14.375	38.542	.761
400.0	14.347	38.542	.817
500.0	14.330	38.548	1.085

STA.:M-33      DATE/TIME:16-02-89/17:10      TOT.DEPH: 760.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.035	24.849	8.920
20.0	7.082	24.924	8.225
30.0	11.939	32.628	6.560
50.0	14.976	38.521	1.862
75.0	14.834	38.575	1.453
100.0	14.742	38.581	1.241
150.0	14.627	38.579	1.239
200.0	14.498	38.562	1.005
250.0	14.422	38.561	.793
300.0	14.394	38.546	.770
400.0	14.352	38.541	.737
500.0	14.342	38.548	1.059
600.0	14.328	38.554	1.452
700.0	14.298	38.552	1.471

STA.:M-37      DATE/TIME:16-02-89/18:40      TOT.DEPH: 490.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.159	24.446	8.405
20.0	7.143	25.658	8.026
30.0	10.855	30.222	6.778
50.0	14.969	38.503	2.726
75.0	14.841	38.563	1.461
100.0	14.747	38.572	1.581
150.0	14.675	38.583	1.524
200.0	14.549	38.572	1.227
250.0	14.466	38.560	.959
300.0	14.389	38.544	.735
400.0	14.352	38.542	.883

STA.:M-38      DATE/TIME:16-02-89/22:00      TOT.DEPH: 48.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	7.335	25.797	8.663
20.0	7.183	26.280	7.851
30.0	8.402	28.373	7.248
50.0	14.618	38.204	2.860

STA.:M-39      DATE/TIME:16-02-89/23:00      TOT.DEPH: 40.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.847	26.325	7.434
20.0	6.780	26.427	7.624
30.0	6.881	26.585	7.566

STA.:M-40 DATE/TIME:17-02-89/00:20 TOT.DEPTH: 34.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	6.823	25.904	8.215
20.0	6.768	24.188	8.106
30.0	7.394	27.056	7.858

STA.:M-41 DATE/TIME:17-02-89/01:00 TOT.DEPTH: 60.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	6.760	25.834	8.278
10.0	6.904	25.915	8.304
20.0	6.893	25.935	8.254
30.0	8.512	28.870	7.144
50.0	14.601	38.308	2.571

STA.:M-34 DATE/TIME:17-02-89/04:35 TOT.DEPTH: 800.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	7.141	24.514	8.627
10.0	7.112	24.518	8.540
20.0	7.138	25.088	8.320
30.0	12.401	32.831	6.497
50.0	15.016	38.479	2.735
75.0	14.803	38.563	2.030
100.0	14.713	38.570	1.629
150.0	14.627	38.578	1.755
200.0	14.525	38.570	1.183
250.0	14.443	38.556	.964
300.0	14.386	38.544	.695
400.0	14.353	38.541	.751
500.0	14.370	38.554	1.180
600.0	14.376	38.563	1.866
700.0	14.364	38.567	1.913
750.0	14.344	38.564	1.805

STA.:M-35 DATE/TIME:17-02-89/05:35 TOT.DEPTH: 1060.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	7.010	24.821	8.331
20.0	6.859	25.249	8.253
30.0	12.573	25.077	6.636
50.0	14.912	38.509	2.460
75.0	14.789	38.561	1.076
100.0	14.725	38.571	1.210
150.0	14.624	38.580	1.069
200.0	14.512	38.566	.982
250.0	14.431	38.552	.771
300.0	14.389	38.546	.769
400.0	14.360	38.543	.804
500.0	14.357	38.551	1.130
600.0	14.347	38.557	1.522
700.0	14.325	38.558	1.480
750.0	14.322	38.560	1.661
800.0	14.313	38.562	1.683
1000.0	14.229	38.552	1.422

STA.:M-36 DATE/TIME:17-02-89/09:15 TOT.DEPTH: 430.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	7.166	25.037	8.460
20.0	7.154	25.470	8.417
30.0	11.544	33.080	6.501
50.0	14.956	38.500	2.072
75.0	14.772	38.565	1.672
100.0	14.685	38.578	1.329
150.0	14.563	38.575	1.285
200.0	14.486	38.563	1.424
250.0	14.411	38.553	1.186
300.0	14.410	38.558	1.285
400.0	14.379	38.554	1.279

STA.:M-43 DATE/TIME:17-02-89/10:10 TOT.DEPTH: 135.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	6.930	25.679	8.556
10.0	6.954	25.792	8.620
20.0	6.880	26.115	8.294
30.0	11.932	34.497	6.607
50.0	14.964	38.514	1.875
75.0	14.722	38.548	1.170
100.0	14.601	38.579	1.731

STA.:M-44 DATE/TIME:17-02-89/11:00 TOT.DEPTH: 86.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.974	25.102	8.692
20.0	6.980	25.646	8.582
30.0	13.632	36.092	6.403
50.0	15.023	38.511	2.115
75.0	14.621	38.545	2.142

STA.:M-45 DATE/TIME:17-02-89/11:50 TOT.DEPTH: 65.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.883	25.260	8.954
20.0	6.938	25.628	8.495
30.0	11.770	34.869	6.622
50.0	14.799	38.534	2.517

STA.:M-46 DATE/TIME:17-02-89/16:05 TOT.DEPTH: 82.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	6.983	25.603	8.554
20.0	6.936	25.597	8.364
30.0	14.311	35.922	6.159
50.0	14.192	38.492	1.938
75.0	13.211	38.602	5.357

STA: M-44      DATE/TIME:17-02-89/11:00    TOT.DEPTH: 86.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.974	25.102	8.692
20.0	6.980	25.646	8.582
30.0	13.632	36.092	6.403
50.0	15.023	38.511	2.115
75.0	14.621	38.565	2.142

STA: C1-Y      DATE/TIME:17-02-89/11:25    TOT.DEPTH: 73.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.987	25.261	8.689
20.0	6.969	25.865	8.412
30.0	11.843	34.132	6.701
50.0	14.731	38.480	2.794

STA: M-45      DATE/TIME:17-02-89/11:50    TOT.DEPTH: 65.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.883	25.260	8.954
20.0	6.938	25.628	8.495
30.0	11.770	34.869	6.623
50.0	14.799	38.534	2.517

STA: C2-X      DATE/TIME:17-02-89/13:00    TOT.DEPTH: 53.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.890	25.266	8.806
20.0	6.893	25.380	8.755
30.0	14.194	37.683	6.563
50.0	14.858	38.516	1.387

STA: C2-Y      DATE/TIME:17-02-89/13:30    TOT.DEPTH: 66.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.881	25.230	8.791
20.0	6.947	25.340	8.252
30.0	13.685	37.447	6.131
50.0	14.819	38.514	2.497

STA: C2-Z      DATE/TIME:17-02-89/13:50    TOT.DEPTH: 67.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.987	25.200	8.379
20.0	6.978	25.504	8.358
30.0	13.646	37.253	6.306
50.0	14.325	38.444	3.505



STA: C2-S      DATE/TIME:17-02-89/14:20      TOT.DEPTH: 69.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	7.134	25.258	8.031
10.0	6.889	25.574	7.947
20.0	6.817	25.873	7.708
30.0	13.683	37.638	6.136
50.0	13.679	38.418	4.036

STA : D1-Z      DATE/TIME:17-02-89/15:10      TOT.DEPTH: 64.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.885	25.645	7.721
20.0	6.821	25.807	7.669
30.0	13.407	37.399	5.724
50.0	13.449	38.500	4.351

STA: D1-Y      DATE/TIME:17-02-89/15:45      TOT.DEPTH: 68.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	7.095	25.417	8.616
10.0	6.881	25.499	8.420
20.0	6.952	25.608	8.125
30.0	14.275	38.043	5.322
50.0	13.631	38.408	3.064

STA: M-46      DATE/TIME:17-02-89/16:05      TOT.DEPTH: 82.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.983	25.603	8.554
20.0	6.936	25.597	8.364
30.0	14.311	35.922	6.159
50.0	14.192	38.492	1.938
75.0	13.211	38.602	5.357

STA: D-1      DATE/TIME:17-02-89/16:50      TOT.DEPTH: 75.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.906	25.469	8.210
20.0	7.003	25.656	7.799
30.0	12.602	36.677	5.964
50.0	13.152	38.547	5.527
75.0	13.177	38.614	5.351

STA: C-3      DATE/TIME:17-02-89/15:30      TOT.DEPTH: 75.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	6.890	25.624	8.751
20.0	6.821	25.703	8.399
30.0	12.460	36.119	6.793
50.0	13.165	38.586	5.563

STA.: D-2      DATE/TIME:17-02-89/18:00    TOT.DEPTH: 80.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	6.823	25.449	8.682
10.0	6.750	25.521	8.435
20.0	6.882	25.786	8.071
30.0	10.613	33.285	6.628
50.0	13.140	38.536	5.522
75.0	13.178	38.660	5.436

STA.: D-3      DATE/TIME:17-02-89/18:40    TOT.DEPTH: 92.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	6.803	25.529	6.971
10.0	6.732	25.528	8.029
20.0	7.003	26.034	7.821
30.0	11.501	34.354	6.255
50.0	13.166	38.580	5.517
75.0	13.186	38.645	5.389

STA: C-4      DATE/TIME:17-02-89/19:15    TOT.DEPTH: 72.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	6.762	25.528	8.349
20.0	6.927	25.792	8.085
30.0	12.597	36.937	6.139
50.0	13.226	38.617	5.456

STA: C-5      DATE/TIME:17-02-89/19:50    TOT.DEPTH: 80.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	6.790	25.543	7.232
10.0	6.770	25.592	7.844
20.0	6.917	25.947	7.860
30.0	12.796	37.635	6.203
50.0	13.240	38.609	5.475
75.0	13.255	38.673	5.365

STA: D-4      DATE/TIME:17-02-89/20:50    TOT.DEPTH: 82.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	7.095	26.136	7.918
20.0	10.930	32.551	6.653
30.0	13.273	38.596	5.556
50.0	13.250	38.714	5.472
75.0	13.247	38.744	5.528

STA: D-5      DATE/TIME:17-02-89/21:50    TOT.DEPTH: 70.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	9.556	31.511	7.062
20.0	13.226	38.620	5.534

30.0 13.246 38.714 5.440  
50.0 13.243 38.750 5.317

STA: C-6 DATE/TIME:17-02-89/22:15 TOT.DEPTH: 68.0 m.

DEP(M)	TEM(C)	SAL(ppt)	DX(m1/1)
1.0	8.021	27.671	6.399
10.0	10.381	33.030	6.231
20.0	13.086	38.344	5.639
30.0	13.212	38.622	5.307
50.0	13.244	38.736	5.187

STA: D-6 DATE/TIME:17-02-89/22:45 TOT.DEPTH: 89.0 m.

DEP(M)	TEM(C)	SAL(ppt)	DX(m1/1)
1.0	8.369	28.835	6.659
10.0	11.037	33.921	6.588
20.0	13.242	38.646	5.851
30.0	13.260	38.712	5.530
50.0	13.262	38.744	5.457
75.0	13.255	38.753	5.192

STA: C-0 DATE/TIME:17-02-89/23:09 TOT.DEPTH: 95.0 m.

DEP(M)	TEM(C)	SAL(ppt)	DX(m1/1)
10.0	11.005	34.255	6.086
20.0	13.237	38.609	5.632
30.0	13.261	38.706	5.267
50.0	13.262	38.742	5.341
75.0	13.262	38.752	5.093

STA: C-7 DATE/TIME:17-02-89/23:45 TOT.DEPTH: 58.0 m.

DEP(M)	TEM(C)	SAL(ppt)	DX(m1/1)
1.0	9.841	31.831	7.162
10.0	9.648	34.247	7.045
20.0	12.537	38.099	6.258
30.0	13.453	38.688	5.644
50.0	13.506	38.768	5.321

STA: C-8 DATE/TIME:18-02-89/00:15 TOT.DEPTH: 44.0 m.

DEP(M)	TEM(C)	SAL(ppt)	DX(m1/1)
1.0	9.585	32.090	5.900
10.0	10.033	36.597	5.994
20.0	12.951	38.274	5.918
30.0	13.522	38.701	5.477

STA: E-14 DATE/TIME:18-02-89/00:30 TOT.DEPTH: 70.0 m.

DEP(M)	TEM(C)	SAL(ppt)	DX(m1/1)
10.0	11.421	37.093	6.532
20.0	13.230	38.508	5.925
30.0	13.460	38.666	5.618
50.0	13.192	38.791	5.576

ÇİZELGE-9: MART, 1989 DÖNEMİNDE MARMARA DENİZİ VE BOĞAZLARI  
BOYUNCA STANDARD DERİNLİKLERDE ÖLÇÜLEN  
FİZİKSEL PARAMETRELERİN DEĞİŞİMİ

STA.: D-5      DATE/TIME:20-03-89/66:08      TOT.DEPTH: 48.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	10.158	28.764	7.633
10.0	11.659	34.129	7.073
20.0	13.161	38.676	5.949
30.0	13.138	38.702	5.905
50.0	13.122	38.727	5.797

STA: D-4      DATE/TIME:20-03-89/10:20      TOT.DEPTH: 73.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.351	25.508	8.120
10.0	9.187	25.729	8.015
20.0	9.627	28.356	7.313
30.0	13.095	38.632	5.756
50.0	13.106	38.706	5.739

STA: C-5      DATE/TIME:20-03-89/11:20      TOT.DEPTH: 66.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.052	25.150	8.734
10.0	9.004	25.173	8.552
20.0	8.950	25.300	8.312
30.0	12.763	38.015	6.563
50.0	13.075	38.660	5.985

STA: C-4      DATE/TIME:20-03-89/12:00      TOT.DEPTH: 55.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.370	25.134	8.348
10.0	9.261	25.154	8.388
20.0	8.845	25.707	8.063
30.0	12.872	38.252	6.079

STA: D-3      DATE/TIME:20-03-89/12:47      TOT.DEPTH: 53.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	9.004	25.239	8.169
20.0	8.782	26.425	7.502
30.0	12.504	37.445	5.910
50.0	13.027	38.684	5.671

STA: D-2      DATE/TIME:20-03-89/13:30      TOT.DEPTH: 80.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.212	25.132	8.367
10.0	8.926	25.191	8.381
20.0	8.421	25.568	7.823
30.0	12.584	37.659	5.789
50.0	13.020	38.674	5.731

STA : C-3            DATE/TIME:20-03-89/14:10    TOT.DEPTH:    70.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.172	25.192	8.075
10.0	8.885	25.199	8.122
20.0	8.495	25.879	7.455
30.0	12.786	37.900	5.513
50.0	13.018	38.681	5.708

STA.: D-1            DATE/TIME:20-03-89/15:35    TOT.DEPTH:    73.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.553	25.073	9.003
10.0	8.491	25.281	8.879
20.0	8.415	25.671	7.874
30.0	13.073	37.329	5.589
50.0	13.016	38.656	5.779

STA : M-46            DATE/TIME:20-03-89/16:30    TOT.DEPTH:    82.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.507	25.049	8.270
10.0	9.375	25.058	8.285
20.0	8.387	25.683	7.641
30.0	12.651	36.789	5.890
50.0	12.960	38.572	5.124
75.0	13.001	38.691	5.610

STA: D1-Y            DATE/TIME:20-03-89/17:00    TOT.DEPTH:    72.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.632	24.879	8.244
10.0	8.508	25.265	8.415
20.0	8.315	25.524	7.611
30.0	12.941	36.838	5.924
50.0	12.986	38.642	5.094

STA: D1-Z            DATE/TIME:20-03-89/17:35    TOT.DEPTH:    60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.760	24.914	8.358
10.0	8.959	25.108	8.485
20.0	8.330	25.522	7.580
30.0	13.006	36.799	4.939
50.0	12.986	38.604	5.265

STA : C-25            DATE/TIME:20-03-89/18:15    TOT.DEPTH:    66.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.631	25.264	8.271
10.0	8.412	25.500	8.372
20.0	8.550	26.072	7.160
30.0	12.905	36.636	3.988
50.0	14.061	38.430	2.509

STA: C2-Z DATE/TIME:20-03-89/18:40 TOT.DEPTH: 65.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.649	24.949	8.008
10.0	9.187	25.202	8.157
20.0	8.436	25.832	7.384
30.0	13.222	37.259	4.250
50.0	14.538	38.504	2.029

STA: C2-Y DATE/TIME:20-03-89/19:00 TOT.DEPTH: 64.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.625	24.955	8.052
10.0	9.484	25.091	7.948
20.0	8.389	25.647	7.363
30.0	13.459	37.394	3.811
50.0	14.826	38.532	1.356

STA: C2-X DATE/TIME:20-03-89/19:20 TOT.DEPTH: 60.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.746	24.971	8.056
10.0	9.721	24.980	8.210
20.0	8.460	25.527	7.684
30.0	13.225	37.065	4.923
50.0	14.908	38.488	1.815

STA: M-44 DATE/TIME:20-03-89/20:15 TOT.DEPTH: 82.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.213	24.764	8.080
10.0	9.199	24.764	8.073
20.0	8.535	25.015	7.742
30.0	13.189	36.910	4.731
50.0	14.509	38.418	2.469
75.0	14.687	38.562	1.375

STA: C1-Y DATE/TIME:20-03-89/20:45 TOT.DEPTH: 82.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.334	24.677	7.570
10.0	8.424	24.821	7.682
20.0	8.359	25.440	7.255
30.0	12.178	35.656	5.046
50.0	13.175	38.520	3.775

STA: M-45 DATE/TIME:20-03-89/21:55 TOT.DEPTH: 66.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	8.894	25.046	7.397
10.0	8.802	25.052	7.755
20.0	8.314	25.487	7.422
30.0	13.220	37.159	4.956
50.0	14.035	38.554	1.985

STA.:M-46 DATE/TIME:20-03-89/16:30 TOT.DEPTH: 82.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.507	25.049	8.270
10.0	9.375	25.058	8.285
20.0	8.387	25.683	7.641
30.0	12.651	36.789	5.890
50.0	12.960	38.572	5.124
75.0	13.001	38.691	5.610

STA.:M-44 DATE/TIME:20-03-89/20:15 TOT.DEPTH: 82.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.213	24.764	8.080
10.0	9.199	24.764	8.073
20.0	8.535	25.015	7.742
30.0	13.189	36.910	4.731
50.0	14.509	38.418	2.469
75.0	14.687	38.562	1.375

STA.:M-45 DATE/TIME:20-03-89/21:55 TOT.DEPTH: 66.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	8.894	25.046	7.397
10.0	8.802	25.052	7.755
20.0	8.314	25.487	7.422
30.0	13.220	37.159	4.956
50.0	14.035	38.554	1.985

STA.:M-41 DATE/TIME:20-03-89/22:55 TOT.DEPTH: 60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.349	25.202	7.768
10.0	8.601	25.476	7.576
20.0	8.419	25.952	7.389
30.0	13.447	37.320	3.344
50.0	13.607	38.386	3.799

STA.:M-40 DATE/TIME:20-03-89/23:30 TOT.DEPTH: 48.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.216	25.125	8.175
10.0	8.428	25.706	7.904
20.0	8.794	27.260	7.162
30.0	12.966	36.902	3.890

STA.:M-39 DATE/TIME:21-03-89/00:45 TOT.DEPTH: 37.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.843	24.671	8.549
10.0	8.952	25.518	8.297
20.0	8.450	26.165	7.458
30.0	13.950	37.948	4.121



STA.:M-38 DATE/TIME:21-03-89/01:50 TOT.DEPTH: 66.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	8.616	24.560	7.842
10.0	8.495	24.840	7.946
20.0	8.651	26.582	7.363
30.0	13.594	37.250	3.826
50.0	14.146	38.407	2.672

STA.:M-42 DATE/TIME:21-03-89/03:30 TOT.DEPTH: 68.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	8.992	24.951	7.786
10.0	8.747	25.134	7.710
20.0	8.444	25.448	7.691
30.0	13.633	37.632	5.434
50.0	14.408	38.419	2.915

STA.:M-43 DATE/TIME:21-03-89/04:20 TOT.DEPTH: 130.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.263	25.153	8.166
10.0	9.264	25.153	8.085
20.0	8.373	25.686	7.836
30.0	13.421	37.148	5.573
50.0	14.964	38.444	2.838
75.0	14.643	38.524	1.732
100.0	13.724	38.528	2.927

STA.:M-36 DATE/TIME:21-03-89/05:45 TOT.DEPTH: 350.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.124	23.997	7.943
10.0	8.766	24.258	8.101
20.0	8.509	25.034	7.573
30.0	12.581	35.799	4.553
50.0	14.977	38.465	1.961
75.0	14.812	38.554	.941
100.0	14.702	38.560	1.335
150.0	14.498	38.536	1.813
200.0	14.429	38.535	1.784
250.0	14.431	38.544	1.481
300.0	14.407	38.547	.838

STA.:M-35 DATE/TIME:21-03-00/08:15 TOT.DEPTH: 900.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	8.581	24.577	7.976
20.0	8.432	24.801	7.363
30.0	13.054	36.779	4.265
50.0	14.865	38.515	1.566
75.0	14.739	38.566	1.378
100.0	14.673	38.565	1.502
150.0	14.610	38.571	1.565
200.0	14.540	38.569	1.191
250.0	14.471	38.559	.982

300.0	14.401	38.547	.809
400.0	14.361	38.549	1.165
500.0	14.353	38.555	1.379
600.0	14.333	38.559	1.500
700.0	14.309	38.558	1.663
750.0	14.285	38.555	1.672
800.0	14.281	38.557	1.607

STA.:M-34      DATE/TIME:21-03-89/10:15      TOT.DEPTH: 1000.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.487	24.668	8.037
10.0	9.448	24.670	8.104
20.0	8.406	24.961	7.788
30.0	12.800	35.577	4.016
50.0	14.961	38.523	1.954
75.0	14.792	38.563	1.126
100.0	14.706	38.569	1.355
150.0	14.622	38.578	1.422
200.0	14.486	38.560	.835
250.0	14.409	38.547	.675
300.0	14.376	38.543	.678
400.0	14.365	38.546	.918
500.0	14.340	38.551	1.079
600.0	14.331	38.559	1.518
700.0	14.289	38.555	1.632
750.0	14.283	38.556	1.523
800.0	14.265	38.556	1.746

STA.:M-37      DATE/TIME:21-03-89/14:14      TOT.DEPTH: 490.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.165	24.061	8.657
10.0	9.094	24.326	8.655
20.0	8.371	25.095	7.753
30.0	13.492	36.056	3.879
50.0	14.915	38.485	1.742
75.0	14.824	38.567	1.597
100.0	14.703	38.563	1.627
150.0	14.625	38.574	1.432
200.0	14.514	38.562	.997
250.0	14.417	38.548	.677
300.0	14.369	38.543	.683
400.0	14.356	38.554	1.316

STA.:M-32      DATE/TIME:21-03-89/18:15      TOT.DEPTH: 32.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.030	24.315	8.652
10.0	9.712	24.403	8.628
20.0	9.199	28.216	6.176

STA.:M-31      DATE/TIME:21-03-89/19:15      TOT.DEPTH: 50.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.307	24.651	8.094
10.0	8.883	25.016	8.209
20.0	8.831	27.299	7.582
30.0	13.264	36.612	3.515

STA.:M-30 DATE/TIME:21-03-89/21:10 TOT.DEPTH: 45.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.143	23.778	9.111
10.0	8.481	24.417	8.761
20.0	8.976	27.585	7.015
30.0	14.316	37.324	2.199

STA.:M-29 DATE/TIME:21-03-89/21:45 TOT.DEPTH: 87.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.860	23.986	8.570
10.0	8.497	24.358	8.603
20.0	8.533	26.504	7.189
30.0	13.983	37.027	2.583
50.0	14.784	38.513	2.024
75.0	14.635	38.549	1.848

STA.:M-28 DATE/TIME:21-03-89/22:45 TOT.DEPTH: 780.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	9.142	23.907	8.276
20.0	8.430	24.840	8.059
30.0	13.353	36.257	4.787
50.0	14.932	38.498	1.681
75.0	14.820	38.565	1.303
100.0	14.741	38.573	1.019
150.0	14.595	38.569	.943
200.0	14.515	38.565	1.097
250.0	14.415	38.548	.771
300.0	14.383	38.543	.707
400.0	14.352	38.542	.800

STA.:M-27 DATE/TIME:22-03-89/12:20 TOT.DEPTH: 1200.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.050	23.710	8.805
10.0	9.277	24.025	8.480
20.0	8.333	24.852	8.078
30.0	13.460	35.681	4.855
50.0	14.961	38.525	1.814
75.0	14.779	38.562	1.116
100.0	14.729	38.573	1.458
150.0	14.649	38.577	1.632
200.0	14.574	38.573	1.419
250.0	14.478	38.560	.983
300.0	14.420	38.550	.853
400.0	14.366	38.546	1.004
500.0	14.353	38.551	1.214
600.0	14.332	38.553	1.379
700.0	14.310	38.553	1.521
750.0	14.304	38.553	1.487
800.0	14.290	38.551	1.507

STA.:M-33 DATE/TIME:22-03-89/02:00 TOT.DEPTH: 800.0 m.

DEP (M)	TEM (C)	SAL (ppt)	DX (ml/l)
10.0	9.389	24.210	8.631
20.0	8.346	24.617	7.924
30.0	13.439	35.983	4.723
50.0	14.995	38.519	1.811
75.0	14.807	38.567	1.300
100.0	14.727	38.577	1.331
150.0	14.625	38.576	1.504
200.0	14.507	38.563	.967
250.0	14.430	38.551	.819
300.0	14.396	38.546	.796
400.0	14.367	38.544	.869
500.0	14.357	38.549	1.091
600.0	14.334	38.554	1.300
700.0	14.316	38.554	1.369
750.0	14.308	38.554	1.347
800.0	14.302	38.553	1.297

STA.:M-26 DATE/TIME:21-03-89/03:30 TOT.DEPTH: 500.0 m.

DEP (M)	TEM (C)	SAL (ppt)	DX (ml/l)
1.0	9.762	22.656	8.813
10.0	9.720	23.857	8.783
20.0	8.477	24.817	8.115
30.0	14.488	37.585	2.787
50.0	14.926	38.533	1.736
75.0	14.789	38.571	1.424
100.0	14.709	38.576	1.149
150.0	14.591	38.575	1.377
200.0	14.467	38.557	.894
250.0	14.400	38.547	.735
300.0	14.373	38.543	.783
400.0	14.340	38.543	.919

STA.:M-25 DATE/TIME:22-03-89/05:25 TOT.DEPTH: 57.0 m.

DEP (M)	TEM (C)	SAL (ppt)	DX (ml/l)
1.0	9.810	23.945	7.703
10.0	9.894	23.976	7.688
20.0	8.384	24.950	7.298
30.0	14.094	36.879	3.957
50.0	14.838	38.522	.816

STA.:M-24 DATE/TIME:22-03-89/06:35 TOT.DEPTH: 700.0 m.

DEP (M)	TEM (C)	SAL (ppt)	DX (ml/l)
10.0	9.098	24.279	8.337
20.0	8.378	25.056	7.633
30.0	14.076	37.173	4.130
50.0	14.959	38.431	1.358
75.0	14.909	38.521	1.238
100.0	14.797	38.565	1.061
150.0	14.633	38.574	.984
200.0	14.506	38.559	.759
250.0	14.428	38.548	.674
300.0	14.389	38.543	.615
400.0	14.353	38.541	.820

500.0	14.324	38.540	.864
600.0	14.324	38.549	1.111
700.0	14.305	38.553	1.348

STA.:M-22      DATE/TIME:22-03-89/08:40      TOT.DEPTH: 125.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.368	23.325	8.604
10.0	8.820	24.170	8.524
20.0	8.417	24.669	7.796
30.0	12.721	35.504	4.327
50.0	14.768	38.458	2.192
75.0	14.775	38.565	1.233
100.0	14.721	38.577	1.313

STA.:M-21      DATE/TIME:22-03-89/09:35      TOT.DEPTH: 150.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.715	23.765	8.839
10.0	8.426	24.463	9.004
20.0	8.741	26.876	7.525
30.0	12.921	36.162	3.610

STA.:M-20      DATE/TIME:22-03-89/10:30      TOT.DEPTH: 54.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.200	23.492	8.424
10.0	8.656	24.273	8.271
20.0	8.499	24.956	7.481
30.0	13.873	36.903	3.407

STA.:M-19      DATE/TIME:23-03-89/04:30      TOT.DEPTH: 65.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.771	24.909	8.253
10.0	8.597	25.426	7.950
20.0	9.174	27.842	6.000
30.0	13.860	37.017	2.785
50.0	14.774	38.506	1.455

STA.:M-18      DATE/TIME:22-03-89/13:50      TOT.DEPTH: 104.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	9.688	25.276	8.989
20.0	8.694	26.700	7.519
30.0	13.924	36.866	3.010
50.0	14.792	38.458	1.506
75.0	14.793	38.555	1.097
100.0	14.722	38.563	.370

STA.:M-17      DATE/TIME:22-03-89/16:15      TOT.DEPTH: 200.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	10.472	24.522	9.241

10.0	10.278	24.892	8.874
20.0	9.052	27.772	7.348
30.0	14.111	37.202	2.479
50.0	14.841	38.512	1.223

STA.:M-16      DATE/TIME:22-03-89/16:15      TOT.DEPTH: 200.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	8.449	24.486	9.207
20.0	8.415	26.164	7.645
30.0	13.907	36.812	3.047
50.0	14.901	38.486	1.515
75.0	14.781	38.552	1.536
100.0	14.727	38.568	1.168
150.0	14.609	38.568	.947
200.0	14.502	38.556	.812

STA.:M-7      DATE/TIME:22-03-89/18:10      TOT.DEPTH: 210.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	8.493	24.751	8.619
20.0	8.945	26.814	7.344
30.0	13.419	36.497	3.754
50.0	14.824	38.494	1.507
75.0	14.791	38.546	1.238
100.0	14.672	38.567	1.069
150.0	14.556	38.561	.777
200.0	14.470	38.552	.669

STA.:M-8      DATE/TIME:22-03-89/18:55      TOT.DEPTH: 270.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
200.0	14.417	38.546	.601
250.0	14.365	38.542	.590

STA.:M-15      DATE/TIME:22-03-89/20:15      TOT.DEPTH: 400.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	8.662	23.347	9.061
20.0	11.239	30.999	6.344
30.0	14.866	38.032	1.599
50.0	14.838	38.486	1.317
75.0	14.790	38.547	1.141
100.0	14.736	38.571	1.066
150.0	14.601	38.568	.897
200.0	14.468	38.552	.720
250.0	14.395	38.543	.573
300.0	14.360	38.540	.590

STA.:M-14      DATE/TIME:22-03-89/21:20      TOT.DEPTH: 800.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	8.934	22.210	6.731
10.0	8.995	23.001	7.802

20.0	8.456	24.774	7.137
30.0	14.841	38.012	1.509
50.0	14.919	38.502	1.174
75.0	14.832	38.555	1.099
100.0	14.740	38.569	.912
150.0	14.598	38.567	.841
200.0	14.480	38.554	.682
250.0	14.395	38.542	.498
300.0	14.365	38.539	.589
400.0	14.333	38.537	.663
500.0	14.319	38.540	.865
600.0	14.318	38.542	.954

STA.:M-13      DATE/TIME:22-03-89/22:45      TOT.DEPTH: 800.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.035	22.239	7.336
10.0	9.027	22.411	7.863
20.0	8.610	24.744	7.924
30.0	14.431	37.528	2.873
50.0	14.917	38.501	1.323
75.0	14.819	38.564	1.281
100.0	14.751	38.577	1.020
150.0	14.568	38.562	.747
200.0	14.443	38.547	.579
250.0	14.386	38.541	.608
300.0	14.356	38.537	.506
400.0	14.336	38.537	.610
500.0	14.325	38.539	.741
600.0	14.319	38.540	.832
700.0	14.315	38.541	.863
750.0	14.316	38.542	.929

STA.:M-12      DATE/TIME:23-03-89/12:20      TOT.DEPTH: 55.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.736	23.802	7.767
10.0	9.754	24.042	7.727
20.0	8.635	24.830	7.620
30.0	14.486	37.552	2.921
50.0	14.903	38.494	.929

STA.:M-11      DATE/TIME:23-03-89/13:10      TOT.DEPTH: 72.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.202	21.749	5.104
10.0	9.175	21.738	5.050
20.0	9.156	21.700	4.914
30.0	14.108	18.968	4.163
50.0	14.946	18.796	3.923

STA.:M-10      DATE/TIME:23-03-89/03:00      TOT.DEPTH: 1100.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	9.049	22.433	7.871
20.0	8.965	26.879	7.223
30.0	14.146	37.031	3.214

50.0	14.922	38.477	1.293
75.0	14.809	38.554	1.037
100.0	14.727	38.571	.934
150.0	14.548	38.559	.743
200.0	14.443	38.546	.556
250.0	14.389	38.540	.479
300.0	14.366	38.537	.549
400.0	14.338	38.537	.686
500.0	14.325	38.537	.687
600.0	14.321	38.539	.873
700.0	14.317	38.540	.795
750.0	14.316	38.541	.868
800.0	14.318	38.542	.947

STA.:M-3      DATE/TIME:23-03-89/20:15      TOT.DEPTH: 90.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	9.882	23.718	8.803
10.0	8.762	24.243	8.757
20.0	9.347	27.492	6.945
30.0	14.168	37.122	2.110
50.0	14.930	38.443	1.328
75.0	14.827	38.540	.999

STA.:M-4      DATE/TIME:23-03-89/23:30      TOT.DEPTH: 460.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	8.659	24.934	8.112
20.0	9.747	28.926	5.874
30.0	13.351	35.660	3.380
50.0	14.909	38.445	1.400
75.0	14.802	38.545	1.062
100.0	14.699	38.572	.956
150.0	14.563	38.562	.709
200.0	14.434	38.548	.551
250.0	14.372	38.541	.613
300.0	14.353	38.539	.624
400.0	14.339	38.540	.638

STA.:M-5      DATE/TIME:24-03-89/01:50      TOT.DEPTH: 150.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	10.736	24.190	10.840
10.0	9.362	24.903	9.016
20.0	9.449	27.988	6.879
30.0	14.462	37.673	2.811
50.0	14.868	38.399	1.380
75.0	14.866	38.440	1.381
100.0	14.865	38.471	1.136

STA.:M-6      DATE/TIME:24-03-89/08:04      TOT.DEPTH: 20.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	11.700	24.231	9.124
10.0	10.315	24.652	9.750



STA : E-14      DATE/TIME:20-03-89/01:30      TOT.DEPTH:    66.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	10.981	32.170	7.007
10.0	11.564	36.788	6.827
20.0	12.509	38.022	6.312
30.0	13.146	38.657	6.092
50.0	13.126	38.741	5.856

STA: C-8      DATE/TIME:20-03-89/02:40      TOT.DEPTH:    60.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	10.400	29.336	7.609
10.0	11.465	35.803	7.223
20.0	11.441	37.192	6.668
30.0	13.274	38.364	5.823
50.0	13.115	38.586	5.744

STA: C-7      DATE/TIME:20-03-89/06:00      TOT.DEPTH:    52.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	10.170	29.701	7.104
10.0	11.216	36.144	6.786
20.0	13.145	38.591	6.313
30.0	13.159	38.717	5.800

STA: C-0      DATE/TIME:20-03-89/06:45      TOT.DEPTH:    75.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.860	28.245	7.290
10.0	10.927	32.090	6.622
20.0	13.131	38.641	5.791
30.0	13.109	38.702	5.775
50.0	13.031	38.752	5.708

STA: D-6      DATE/TIME:20-03-89/07:25      TOT.DEPTH:    82.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	10.128	28.811	7.520
10.0	11.127	32.656	7.040
20.0	13.168	38.672	5.976
30.0	13.092	38.725	5.813
50.0	13.040	38.744	5.743

STA: C-6      DATE/TIME:20-03-89/08:12      TOT.DEPTH:    66.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	9.604	27.065	7.868
10.0	11.897	34.968	6.903
20.0	13.187	38.645	5.972
30.0	13.184	38.671	5.914
50.0	13.142	38.735	5.772

STA.:M-2      DATE/TIME:24-03-89/16:30      TOT.DEPTH: 50.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	8.323	19.979	7.750
10.0	8.969	23.558	7.076
20.0	9.942	29.112	6.043
30.0	14.188	37.229	2.036

STA.:M-1      DATE/TIME:24-03-89/16:55      TOT.DEPTH: 60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	9.181	24.011	6.434
20.0	9.581	27.627	5.242
30.0	14.400	37.398	2.942
50.0	14.911	38.432	1.074

ÇİZELGE-10: EYLÜL, 1989 DÖNEMİNDE MARMARA DENİZİ VE BOĞAZLARI  
BOYUNCA STANDARD DERİNLİKLERDE ÖLÇÜLEN  
FİZİKSEL PARAMETRELERİN DEĞİŞİMİ

STA.:M-4      DATE/TIME:19-09-89/14:10      TOT.DEPH: 600.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.466	23.209	5.464
10.0	20.615	24.084	5.593
20.0	14.315	37.822	.606
30.0	14.665	38.375	.704
50.0	14.726	38.537	.887
75.0	14.692	38.565	.912
100.0	14.594	38.565	.831
150.0	14.475	38.555	.792
200.0	14.400	38.547	.654
250.0	14.361	38.543	.678
300.0	14.339	38.544	.776
400.0	14.323	38.547	.982
500.0	14.320	38.549	1.042
600.0	14.319	38.550	1.099

STA.:M-5      DATE/TIME:19-09-89/16:45      TOT.DEPH: 130.0 m

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.757	23.440	5.131
10.0	17.712	28.640	5.517
20.0	14.576	37.993	.444
30.0	14.655	38.278	.348
50.0	14.759	38.413	.169
75.0	14.743	38.437	.163
100.0	14.778	38.453	.100

STA.:M-6      DATE/TIME:19-09-89/18:36      TOT.DEPH: 30.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	22.110	23.218	5.484
10.0	16.440	29.656	3.292
20.0	14.613	38.143	.428

STA.:M-3      DATE/TIME:19-09-89/23:02      TOT.DEPH: 95.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
10.0	20.014	24.078	5.552
20.0	14.396	37.909	.553
30.0	14.541	38.146	.434
50.0	14.702	38.464	.736
75.0	14.669	38.547	.726

STA.:M-2      DATE/TIME:21-09-89/06:12      TOT.DEPH: 55.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	19.830	20.180	5.083
10.0	17.600	27.659	4.710
20.0	14.600	38.230	1.187
30.0	14.808	38.532	1.048

STA.:M-1 DATE/TIME:21-09-89/06:51 TOT.DEPH: 52.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	19.820	20.383	5.242
10.0	16.604	30.588	4.410
20.0	14.480	37.947	1.604
30.0	14.726	38.444	.868

STA.:M-11 DATE/TIME:23-09-89/04:00 TOT.DEPH: 67.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.353	22.882	5.432
10.0	20.150	25.501	5.618
20.0	14.731	38.285	1.387
30.0	14.836	38.531	1.147
50.0	14.649	38.562	.394

STA.:M-10 DATE/TIME:23-09-89/07:26 TOT.DEPH: 1000.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.294	22.959	5.534
10.0	21.292	23.048	5.579
20.0	14.237	37.556	1.521
30.0	14.712	38.304	.579
50.0	14.755	38.497	.886
75.0	14.731	38.544	.802
100.0	14.691	38.563	.853
150.0	14.543	38.559	.767
200.0	14.454	38.550	.630
250.0	14.395	38.543	.577
300.0	14.357	38.539	.613
400.0	14.331	38.539	.749
500.0	14.320	38.541	.924
600.0	14.319	38.543	.987
700.0	14.319	38.545	1.056
750.0	14.319	38.546	1.068
800.0	14.318	38.546	1.088

STA.:M-9 DATE/TIME:23-09-89/09:50 TOT.DEPH: 1190.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	20.963	22.955	5.398
10.0	19.337	23.778	5.370
20.0	14.351	37.836	2.036
30.0	14.623	38.298	.574
50.0	14.708	38.483	.680
75.0	14.671	38.542	.700
100.0	14.607	38.561	.777
150.0	14.490	38.555	.761
200.0	14.406	38.545	.629
250.0	14.367	38.541	.626
300.0	14.347	38.541	.656
400.0	14.329	38.542	.836
500.0	14.320	38.544	.976
600.0	14.319	38.546	1.055
700.0	14.319	38.547	1.088
750.0	14.318	38.548	.0
800.0	14.316	38.548	.0

STA.:M-7 DATE/TIME:23-09-89/13:00 TOT.DEPTH: 154.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	20.568	23.044	5.686
10.0	19.227	23.988	5.033
20.0	15.058	32.426	2.944
30.0	14.550	37.977	.585
50.0	14.754	38.471	1.208
75.0	14.760	38.551	.887
100.0	14.750	38.562	1.087

STA.:M-8 DATE/TIME:23-09-89/13:53 TOT.DEPTH: 200.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.569	22.770	5.020
10.0	20.517	23.518	5.999
20.0	14.281	35.095	3.810
30.0	14.597	38.227	.710
50.0	14.751	38.501	.955
75.0	14.686	38.561	.955
100.0	14.588	38.563	.930
150.0	14.435	38.549	.748
200.0	14.372	38.541	.702
250.0	14.344	38.539	.754

STA.:M-15 DATE/TIME:23-09-89/15:15 TOT.DEPTH: 370.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	21.618	22.951	5.988
20.0	18.100	29.187	6.260
30.0	14.623	38.346	.650
50.0	14.750	38.521	1.004
75.0	14.658	38.563	.970
100.0	14.570	38.561	.871
150.0	14.448	38.549	.692
200.0	14.388	38.543	.660
250.0	14.351	38.539	.681
300.0	14.335	38.540	.831

STA.:M-14 DATE/TIME:23-09-89/16:33 TOT.DEPTH: 700.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.890	22.852	5.695
10.0	21.336	22.885	5.787
20.0	15.123	33.237	6.286
30.0	14.559	38.182	.469
50.0	14.732	38.505	1.211
75.0	14.707	38.556	.709
100.0	14.565	38.560	.819
150.0	14.443	38.549	.642
200.0	14.391	38.543	.649
250.0	14.358	38.540	.681
300.0	14.338	38.540	.776
400.0	14.321	38.541	.951
500.0	14.319	38.543	1.021
600.0	14.320	38.546	1.064

STA.:M-13 DATE/TIME:23-09-89/18:03 TOT.DEPH: 800.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.293	22.807	5.835
10.0	21.215	22.818	5.789
20.0	19.905	34.657	6.183
30.0	14.657	38.265	.630
50.0	14.798	38.497	.948
75.0	14.735	38.557	.803
100.0	14.686	38.568	1.015
150.0	14.530	38.557	.818
200.0	14.428	38.547	.620
250.0	14.375	38.541	.639
300.0	14.348	38.549	.649
400.0	14.325	38.540	.878
500.0	14.319	38.541	.940
600.0	14.318	38.543	.985

STA.:M-23 DATE/TIME:24-09-89/22:28 TOT.DEPH: 300.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.514	22.941	5.592
10.0	21.517	22.940	5.682
20.0	21.141	23.026	5.661
30.0	14.388	37.982	.454
50.0	14.764	38.495	.052
75.0	14.708	38.533	.034
100.0	14.618	38.561	.865
150.0	14.503	38.559	.902
200.0	14.403	38.544	.692
250.0	14.374	38.544	.780

STA.:M-16 DATE/TIME:23-09-89/23:10 TOT.DEPH: 150.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.205	22.895	5.725
10.0	21.212	22.727	5.750
20.0	15.335	31.406	5.537
30.0	14.837	38.048	.982
50.0	15.065	38.584	2.060
75.0	15.083	38.633	2.005
100.0	15.002	38.653	2.289
150.0	14.715	38.604	1.563

STA.:M-17 DATE/TIME:24-08-89/01:51 TOT.DEPH: 70.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	20.334	24.212	5.416
10.0	20.200	24.297	5.422
20.0	16.864	29.108	4.018
30.0	14.427	37.735	1.863
50.0	14.740	38.430	1.066

STA.:M-18 DATE/TIME:24-09-89/03:03 TOT.DEPH: 107.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	20.198	24.277	5.426
10.0	20.074	24.450	5.376

20.0	16.037	39.444	4.225
30.0	14.409	37.671	.665
50.0	14.747	38.497	.459
75.0	14.656	38.547	.449
100.0	14.588	38.546	.113

STA.:M-19      DATE/TIME:24-07-89/04:24      TOT.DEPTH: 67.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	19.823	24.527	5.458
10.0	17.519	27.752	5.727
20.0	14.229	35.252	.833
30.0	15.030	38.305	1.935
50.0	14.823	38.520	.695

STA.:M-20      DATE/TIME:24-09-89/06:00      TOT.DEPTH: 60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.273	22.825	5.493
10.0	20.862	23.224	5.512
20.0	19.260	25.349	5.400
30.0	14.773	38.124	.981
50.0	15.064	38.605	1.489

STA.:M-21      DATE/TIME:14-09-89/07:22      TOT.DEPTH: 60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	20.708	23.963	5.447
10.0	20.707	23.963	5.476
20.0	20.000	24.167	5.441
30.0	15.623	38.374	2.869
50.0	15.112	38.663	3.054

STA.:M-22      DATE/TIME:24-09-89/08:25      TOT.DEPTH: 130.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.233	22.908	5.448
10.0	21.152	22.989	5.453
20.0	19.943	24.347	5.535
30.0	14.730	37.919	.312
50.0	14.754	38.533	1.935
75.0	14.684	38.563	.862
100.0	14.608	38.564	.877

STA.:M-24      DATE/TIME:24-09-89/10:18      TOT.DEPTH: 720.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	20.898	22.734	5.759
10.0	20.862	22.743	5.806
20.0	19.923	24.083	5.707
30.0	14.497	38.138	.429
50.0	14.812	38.503	1.060
75.0	14.731	38.558	1.008
100.0	14.671	38.565	.918
150.0	14.559	38.539	.832



200.0	14.466	38.552	.844
250.0	14.386	38.541	.695
300.0	14.353	38.538	.744
400.0	14.329	38.539	.868
500.0	14.320	38.541	1.039
600.0	14.319	38.533	1.425
700.0	14.289	38.552	1.509

STA.:M-31      DATE/TIME:24-09-89/16:06      TOT. DEPTH: 53.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.022	29.802	5.773
10.0	20.761	29.806	5.810
20.0	17.775	30.638	4.173
30.0	15.889	38.162	3.002

STA.:M-32      DATE/TIME:24-09-89/17:10      TOT. DEPTH: 32.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.249	29.286	5.771
10.0	21.156	29.320	5.750
20.0	17.989	30.380	4.999

STA.:M-30      DATE/TIME:24-09-89/19:00      TOT. DEPTH: 30.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.440	22.982	5.750
10.0	20.720	29.475	5.860
20.0	15.003	32.045	5.159
30.0	15.673	38.599	2.973

STA.:M-29      DATE/TIME:24-09-89/19:53      TOT. DEPTH: 101.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.293	22.900	5.599
10.0	20.987	29.208	5.734
20.0	14.838	32.620	5.463
30.0	15.190	38.401	1.646
50.0	14.800	38.557	1.401
75.0	14.875	38.630	2.009

STA.:M-28      DATE/TIME:24-09-89/20:55      TOT. DEPTH: 730.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.263	22.905	5.545
10.0	20.717	29.512	5.642
20.0	16.810	28.372	5.616
30.0	14.709	38.184	1.161
50.0	14.848	38.543	1.460
75.0	14.739	38.574	1.248
100.0	14.637	38.572	1.383
150.0	14.559	38.574	1.204
200.0	14.489	38.565	1.061
250.0	14.389	38.545	.869
300.0	14.414	38.557	1.139
<del>400.0</del>	<del>14.360</del>	<del>38.550</del>	<del>1.161</del>
500.0	14.341	38.557	1.444
600.0	14.295	38.550	1.512

STA.:M-27 DATE/TIME:24-09-89/22:00 TOT.DEPTH: 1250.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.225	32.999	5.559
10.0	21.154	32.062	5.581
20.0	16.461	38.654	5.753
30.0	15.148	38.284	2.107
50.0	14.826	38.526	1.085
75.0	14.732	38.543	1.059
100.0	14.636	38.547	1.113
150.0	14.501	38.557	.954
200.0	14.428	38.548	.810
250.0	14.399	38.547	.842
300.0	14.365	38.542	.852
400.0	14.352	38.547	1.131
500.0	14.345	38.555	1.454
600.0	14.307	38.552	1.527
700.0	14.284	38.550	1.475
750.0	14.281	38.551	1.545
800.0	14.271	38.550	1.594

STA.:M-33 DATE/TIME:24-09-89/01:00 TOT.DEPTH: 820.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
20.0	14.428	32.724	5.527
30.0	14.670	38.250	1.198
50.0	14.822	38.531	.919
75.0	14.735	38.561	.957
100.0	14.669	38.570	1.077
150.0	14.560	38.548	1.099
200.0	14.465	38.556	.835
250.0	14.404	38.546	.757
300.0	14.387	38.546	.857
400.0	14.343	38.542	.905
500.0	14.340	38.550	1.222
600.0	14.307	38.553	1.467
700.0	14.280	38.550	1.497
750.0	14.276	38.551	1.536
800.0	14.270	38.552	1.571

STA.:M-37 DATE/TIME:25-09-89/02:00 TOT.DEPTH: 500.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.049	23.074	5.500
10.0	21.051	23.073	5.499
20.0	14.140	32.812	6.090
30.0	15.052	38.426	1.861
50.0	14.885	38.542	1.664
75.0	14.737	38.574	1.228
100.0	14.661	38.581	1.352
150.0	14.504	38.562	.903
200.0	14.421	38.549	.775
250.0	14.451	38.564	.909
300.0	14.517	38.589	1.474
400.0	14.499	38.594	1.726

STA.:M-38 DATE/TIME:25-09-89/04:51 TOT.DEPHTH: 68.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	20.861	23.114	5.536
10.0	20.984	23.274	5.595
20.0	17.804	35.348	4.963
30.0	15.639	39.707	4.472
50.0	15.175	39.700	3.109

STA.:M-39 DATE/TIME:25-09-89/06:26 TOT.DEPHTH: 42.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.264	23.838	5.543
10.0	21.267	23.838	5.676
20.0	17.129	36.094	3.129
30.0	15.740	38.546	4.326

STA.:M-40 DATE/TIME:25-09-89/07:32 TOT.DEPHTH: 54.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.152	23.553	5.648
10.0	21.205	23.607	5.630
20.0	17.533	36.340	3.249
30.0	16.249	38.543	4.271

STA.:M-41 DATE/TIME:25-09-89/08:08 TOT.DEPHTH: 42.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.017	23.357	5.542
10.0	20.916	23.538	5.478
20.0	18.014	37.644	3.653
30.0	15.724	38.567	5.206
50.0	15.261	38.731	3.042

STA.:M-42 DATE/TIME:25-09-89/08:55 TOT.DEPHTH: 30.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	20.837	23.229	5.602
10.0	20.804	23.260	5.586
20.0	17.769	37.607	4.447
30.0	16.315	39.770	5.035
50.0	14.944	38.593	2.751

STA.:M-43 DATE/TIME:25-09-89/09:40 TOT.DEPHTH: 122.0 m.

DEP(M)	TEM(C)	SAL (ppt)	OX (ml/l)
1.0	21.301	23.143	5.732
10.0	21.212	23.224	5.700
20.0	18.017	35.239	5.767
30.0	16.394	38.795	5.188
50.0	14.871	38.572	1.969
75.0	14.740	38.569	1.237
100.0	14.698	38.584	1.171

STA.:M-44 DATE/TIME:25-09-89/10:34 TOT.DEPH: 84.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.253	23.178	5.664
10.0	21.191	23.569	5.709
20.0	17.747	35.582	5.819
30.0	16.918	38.886	5.429
50.0	14.910	38.615	2.833
75.0	14.689	38.606	1.483

STA.:M-46 DATE/TIME:26-09-89/09:33 TOT.DEPH: 79.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.282	23.281	5.764
10.0	21.260	23.293	5.960
20.0	17.415	38.590	5.947
30.0	16.218	38.943	5.804
50.0	15.527	38.936	5.599

STA.:M-45 DATE/TIME:27-09-89/11:35 TOT.DEPH: 56.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.356	23.560	5.668
10.0	21.167	23.624	5.664
20.0	17.870	38.312	5.447
30.0	16.385	38.849	5.101
50.0	14.846	38.654	2.462

STA.:M-36 DATE/TIME:26-09-89/11:03 TOT.DEPH: 400.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.315	23.113	3.153
10.0	21.239	23.125	5.034
20.0	19.272	34.770	5.051
30.0	15.743	38.688	3.873
50.0	14.818	38.555	1.638
75.0	14.722	38.570	.999
100.0	14.650	38.570	1.064
150.0	14.877	38.655	2.166
200.0	14.581	38.593	1.372
250.0	14.532	38.589	1.347
300.0	14.514	38.589	1.376

STA.:M-35 DATE/TIME:26-09-89/14:42 TOT.DEPH: 1140.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.614	23.032	5.873
10.0	21.157	23.027	5.971
20.0	15.658	36.097	5.755
30.0	15.409	38.460	2.804
50.0	14.998	38.592	2.329
75.0	14.714	38.566	1.029
100.0	14.645	38.566	1.085
150.0	14.579	38.570	1.108
200.0	14.467	38.557	.933
250.0	14.437	38.556	.932
300.0	14.378	38.534	.832
400.0	14.450	38.573	1.355
500.0	14.354	38.557	1.257

600.0	14.319	38.557	1.539
700.0	14.306	38.561	1.714
750.0	14.282	38.560	1.755
800.0	14.246	38.555	1.725
1000.0	14.204	38.553	1.805

STA.:M-34      DATE/TIME:26-07-89/16:57      TOT.DEPHTH: 1052.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.548	23.091	5.710
10.0	20.928	23.150	5.867
20.0	15.049	34.609	5.290
30.0	14.817	38.308	1.970
50.0	14.849	38.541	1.581
75.0	14.730	38.560	.957
100.0	14.664	38.565	1.075
150.0	14.549	38.564	1.149
200.0	14.435	38.549	.845
250.0	14.389	38.543	.807
300.0	14.370	38.541	.040
400.0	14.351	38.544	.896
500.0	14.364	38.558	1.404
600.0	14.325	38.563	1.640
700.0	14.288	38.557	1.706
750.0	14.269	38.558	1.789
800.0	14.239	38.555	1.800
1000.0	14.207	38.553	1.809

STA.:M-26      DATE/TIME:26-09-89/19:46      TOT.DEPHTH: 700.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	21.268	23.021	5.426
20.0	15.925	35.483	5.218
30.0	14.965	38.444	2.442
50.0	14.776	38.532	1.035
75.0	14.720	38.567	1.019
100.0	14.649	38.566	1.141
150.0	14.555	38.564	1.033
200.0	14.434	38.548	.753
250.0	14.396	38.543	.671
300.0	14.366	38.541	.776
400.0	14.337	38.542	.908

STA.:M-25      DATE/TIME:26-09-89/21:48      TOT.DEPHTH: 61.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
10.0	21.075	23.048	5.698
20.0	16.150	36.980	4.958
30.0	14.884	38.457	1.134
50.0	14.780	38.556	.190

STA.:M-12      DATE/TIME:26-09-89/23:27      TOT.DEPHTH: 60.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.065	23.011	5.632
10.0	20.827	23.103	5.835
20.0	16.680	30.586	4.443
30.0	14.800	38.345	1.711

STA : M-44      DATE/TIME:25-09-89/10:34      TOT.DEPTH:      84.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.253	23.178	5.666
10.0	21.191	23.569	5.709
20.0	17.747	35.582	5.819
30.0	16.918	38.886	5.429
50.0	14.910	38.615	2.833
75.0	14.689	38.606	1.483

STA: C1-Y      DATE/TIME:25-09-89/11:00      TOT.DEPTH:      74.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.325	23.281	5.729
10.0	21.200	23.656	5.727
20.0	18.213	38.024	5.490
30.0	16.708	38.888	4.703
50.0	15.346	38.718	4.084

STA: M-45      DATE/TIME:25-09-89/11:35      TOT.DEPTH:      66.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.356	23.560	5.668
10.0	21.167	23.624	5.664
20.0	17.870	38.312	5.447
30.0	16.385	38.849	5.181
50.0	14.846	38.654	2.462

STA : E-14      DATE/TIME:25-09-89/19:08      TOT.DEPTH:      70.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.902	33.950	5.106
10.0	21.191	36.278	5.124
20.0	19.247	37.950	5.424
30.0	17.330	38.836	5.664
50.0	16.164	39.008	5.663

STA : C-7      DATE/TIME:25-09-89/20:55      TOT.DEPTH:      54.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	20.384	28.405	4.917
10.0	20.400	36.295	5.358
20.0	17.348	38.793	5.790
30.0	17.017	38.841	5.756

STA : C-0      DATE/TIME:25-09-89/21:35      TOT.DEPTH:      80.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	20.181	27.252	5.040
10.0	18.170	35.128	5.866
20.0	16.222	38.924	5.989

30.0	15.556	38.946	5.847
50.0	15.200	38.968	5.494
75.0	15.035	38.961	5.433

STA: D-6            DATE/TIME:25-09-89/22:10    TOT.DEPH:    88.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(m1/1)
1.0	20.208	28.169	5.508
10.0	18.144	33.522	6.045
20.0	15.923	38.944	6.016
30.0	15.474	38.949	5.775
50.0	15.203	38.964	5.529
75.0	15.106	38.964	5.426

STA: C-6            DATE/TIME:25-09-89/22:48    TOT.DEPH:    67.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(m1/1)
1.0	20.083	27.565	4.896
10.0	17.658	34.802	5.942
20.0	15.491	38.977	5.767
30.0	15.090	38.988	5.596
50.0	15.066	38.967	5.445

STA: D-5            DATE/TIME:25-09-89/23:26    TOT.DEPH:    67.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(m1/1)
1.0	19.882	27.954	5.661
10.0	17.161	37.497	5.973
20.0	16.283	38.927	5.874
30.0	15.970	38.930	5.819
50.0	15.354	38.951	5.618

STA.: C5-6            DATE/TIME:26-09-89/00:08    TOT.DEPH:    50.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(m1/1)
1.0	21.375	23.465	4.486
10.0	19.028	30.368	5.954
20.0	15.896	38.966	5.870
30.0	15.720	38.956	5.774

STA: D-4            DATE/TIME:26-09-89/00:50    TOT.DEPH:    65.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(m1/1)
1.0	21.289	23.648	5.641
10.0	21.147	24.181	5.726
20.0	15.949	38.826	5.510

STA: C-5            DATE/TIME:26-09-89/01:29    TOT.DEPH:    81.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(m1/1)
1.0	21.268	23.310	4.468
10.0	21.276	23.350	5.960
20.0	16.929	36.229	6.102

30.0	15.620	38.845	5.736
50.0	15.338	38.940	5.571

STA: C-4      DATE/TIME:26-09-89/02:05      TOT.DEPTH: 65.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.240	23.298	5.701
10.0	21.260	23.359	5.674
20.0	18.142	34.321	5.640
30.0	15.399	38.855	5.495

STA: D-3      DATE/TIME:26-09-89/02:47      TOT.DEPTH: 67.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.254	23.188	5.712
10.0	21.297	23.263	5.856
20.0	19.303	31.950	5.726
30.0	15.530	38.803	5.639
50.0	15.363	38.911	5.473

STA: D-2      DATE/TIME:26-09-89/03:21      TOT.DEPTH: 84.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.171	23.162	5.689
10.0	21.180	23.169	5.996
20.0	19.040	32.284	5.847
30.0	15.668	38.871	5.749
50.0	15.392	38.923	5.556
75.0	15.293	38.939	5.424

STA: C3      DATE/TIME:26-09-89/03:55      TOT.DEPTH: 67.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.225	23.158	5.021
10.0	21.234	23.165	5.912
20.0	18.135	35.912	5.747
30.0	15.890	38.841	5.693
50.0	15.336	38.935	5.550

STA: D1      DATE/TIME:26-09-89/04:41      TOT.DEPTH: 50.0 m.

DEP (M)	TEM (C)	SAL (ppt)	OX (ml/l)
1.0	21.502	23.308	6.022
10.0	21.509	23.344	5.978
20.0	17.358	38.949	5.897
30.0	16.282	38.854	5.671



STA: M-46      DATE/TIME:26-09-89/09:33      TOT.DEPTH:      79.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.282	23.281	5.764
10.0	21.260	23.293	5.960
20.0	17.415	38.530	5.947
30.0	16.218	38.943	5.804
50.0	15.527	38.936	5.599

STA: D1-Y      DATE/TIME:26-09-89/06:05      TOT.DEPTH:      83.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	21.269	23.272	5.698
20.0	17.406	38.496	5.622
30.0	16.194	38.955	5.635
50.0	15.680	38.942	5.346
75.0	15.588	38.942	5.309

STA: D1-Z      DATE/TIME:26-09-89/06:36      TOT.DEPTH:      67.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
10.0	21.146	23.237	5.710
20.0	18.367	37.735	5.470
30.0	16.558	38.961	5.294
50.0	15.798	38.942	5.229

STA: C2-S      DATE/TIME:26-09-89/07:16      TOT.DEPTH:      48.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.229	23.261	5.542
10.0	21.167	23.375	5.531
20.0	17.799	38.292	5.017
30.0	16.302	38.851	4.549
50.0	15.088	38.684	2.868

STA: C2-Z      DATE/TIME:26-09-89/07:43      TOT.DEPTH:      67.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.187	23.395	5.530
10.0	21.266	23.541	5.555
20.0	17.604	38.724	5.343
30.0	17.121	38.926	5.267
50.0	14.943	38.651	2.565

STA: C2-Y      DATE/TIME:26-09-89/08:10      TOT.DEPTH:      67.0 m.

DEP(M)	TEM(C)	SAL(ppt)	OX(ml/l)
1.0	21.245	23.274	5.581
10.0	21.194	23.621	5.585
20.0	18.058	37.465	5.412
30.0	16.386	38.859	4.841
50.0	15.026	38.684	2.654

ÇİZELGE-11: Şubat, 1989 döneminde Marmara Denizi'ni çevreleyen koy ve körfezler ile Ege Denizi çıkışında ölçülen kirlilik parametrelerinin değerleri

Koy/Körfez	İst.	Depth	HM	PO <sub>4</sub> -P	TNO <sub>x</sub> -N	Si(OH) <sub>3</sub> -Si	DOC	TAK	PAH	Hg <sub>w</sub>
İzmit K.	M5	0	1,03	0,43	1,14	6,54	2,00	4,06	0,81	3,5
		60	0,59	1,34	10,74	-,-	1,08	0,57	1,05	6,4
	M6	0	1,01	0,80	0,14	7,40	1,90	2,75	0,91	4,3
		25	1,36	0,54	1,27	11,73	1,87	0,72	-,-	-,-
Gemlik K.	M17	0	0,86	0,43	0,13	4,92	-,-	2,46	0,72	6,4
		50	0,80	0,41	0,97	-,-	-,-	0,64	0,50	2,7
	M18	0	1,38	0,34	0,12	6,12	2,02	1,70	0,40	6,4
Kocaçay	M19	0	0,86	0,40	0,13	4,98	2,21	2,83	0,92	10,2
Bandırma K.	M32	0	0,91	6,77	0,20	6,87	1,63	2,18	0,79	12,8
	M31	0	0,75	1,18	0,10	4,86	1,82	1,84	0,91	2,7
Erdak K.	M39	0	0,91	0,44	0,15	6,82	1,80	2,36	0,51	4,7
		40	0,50	1,04	7,86	24,36	0,86	-,-	-,-	-,-
B,Çekmece	M12	0	0,65	0,38	0,38	5,45	1,78	1,08	1,12	4,8
Çanakkale	C0	0	0,58	0,24	0,37	4,77	1,66	0,85	0,66	7,0
		60	0,50	0,24	2,05	2,51	0,66	-,-	-,-	-,-
	M46	0	0,78	0,35	0,11	5,18	1,76	3,30	0,76	7,9
		60	0,32	0,29	2,25	2,51	0,68	-,-	-,-	-,-

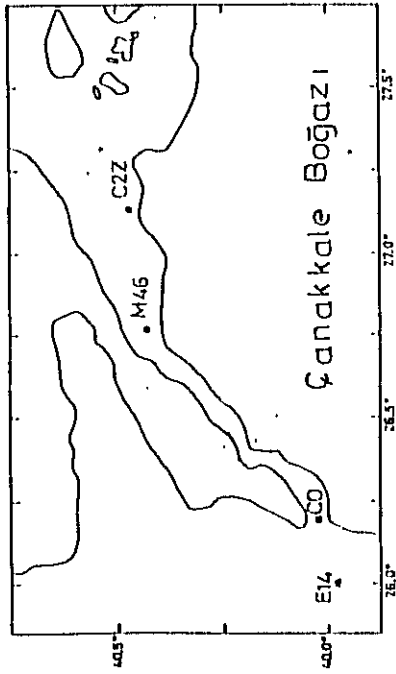
=====

ÇİZELGE-12: Mart, 1989 döneminde Marmara Denizi'ni çevreleyen  
koy ve körfezler ile Ege Denizi çıkışında ölçülen kirlilik  
parametrelerinin değerleri

Koy/Körfez	Ist.	Depth	HM	PO <sub>4</sub> -P	TNO <sub>5</sub> -N	Si(OH) <sub>3</sub> -Si	DOC	TAK	PAH	Hg <sub>w</sub>
İzmit K.	M5	0	1,74	1,47	0,24	7,41	3,69	8,30	-,--	-,--
	M6	0	1,28	0,53	0,16	5,52	2,63	5,40	1,96	-,--
Gemlik K.	M17	0	0,70	0,27	0,13	7,63	2,15	2,33	-,--	4,9
		50	0,48	1,02	9,88	34,83	0,63	-,--	-,--	-,--
	M18	0	0,82	0,32	0,13	6,69	1,95	3,85	0,59	-,--
Kocaçay	M19	0	0,72	0,33	0,13	6,23	1,95	-,--	-,--	-,--
Bandırma K.	M32	0	0,85	0,72	0,12	5,69	2,27	-,--	-,--	5,0
	M31	0	0,80	0,42	0,13	5,99	2,10	-,--	0,66	8,6
Erdek K.	M39	0	0,80	0,28	0,32	14,53	2,10	2,16	0,77	5,7
		30	0,44	0,62	5,07	18,80	0,66	-,--	-,--	-,--
Çanakkale	C0	0	0,61	0,23	1,05	4,76	1,32	1,22	0,27	3,4
		50	0,30	0,27	1,88	3,06	0,50	-,--	-,--	-,--
	M46	0	0,64	0,33	0,30	6,05	1,51	2,49	0,33	1,0
		60	0,25	0,27	2,32	3,21	0,49	-,--	-,--	-,--

ÇİZELGE-13: Eylül, 1989 döneminde Marmara Denizi'ni çevreleyen  
koy ve körfezler ile Ege Denizi çıkışında ölçülen kirlilik  
parametrelerinin değerleri

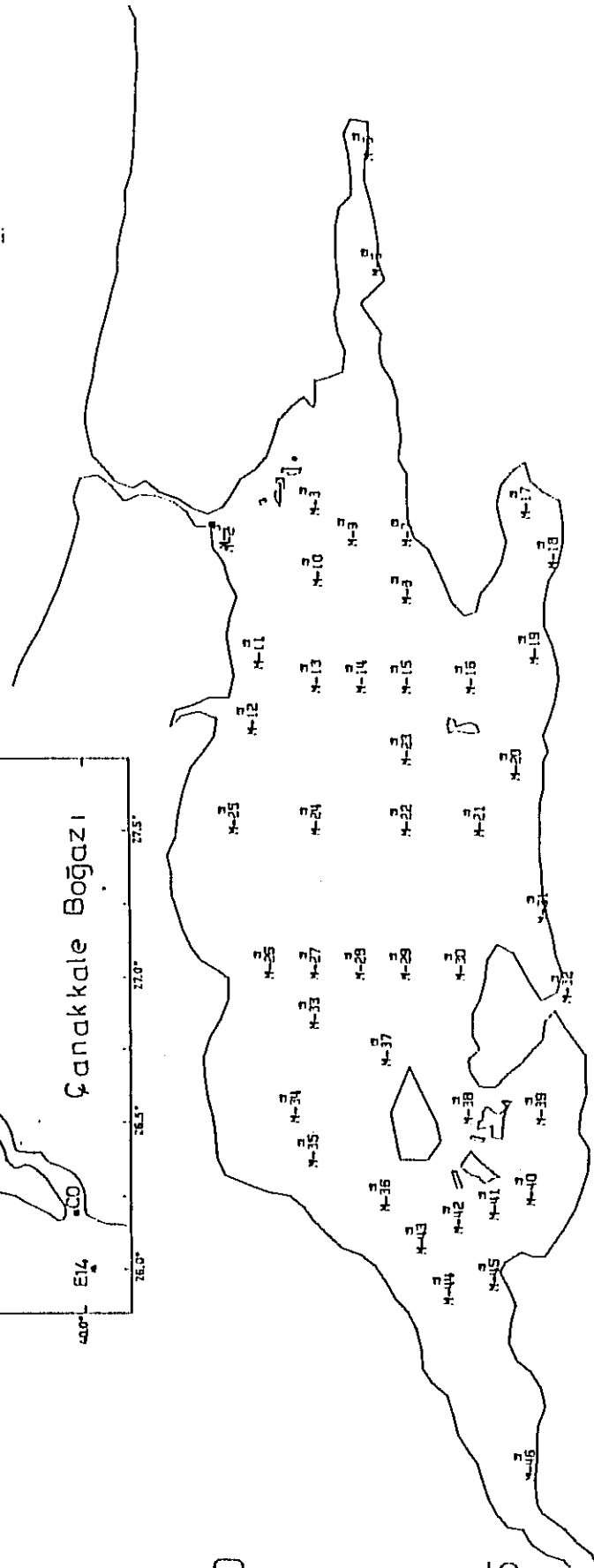
Koy/Körfez	Ist.	Depth	HM	PO <sub>4</sub> -P	TNO <sub>5</sub> -N	Si(OH) <sub>3</sub> -Si	DOC	TAK	PAH	Hg <sub>w</sub>
Gemlik K.	M17	0	0,74	BDL	0,13	3,55	1,89	1,18	0,85	4,72
		50	0,43	1,13	6,57	33,75	0,83	-,--	-,--	-,--
	M18	0	0,83	-,--	-,--	3,20	2,28	1,08	0,42	5,91
Kocaçay	M19	0	0,68	BDL	0,12	3,55	2,29	2,92	0,98	1,6
Bandırma K.	M32	0	0,81	1,34	BDL	1,63	2,28	2,15	1,09	7,56
	M31	0	0,70	0,16	BDL	2,09	2,25	2,25	0,24	2,23
Erdek K.	M39	0	0,74	BDL	0,15	1,10	2,11	0,66	0,80	-,--
		40	0,50	1,04	7,86	24,36	0,86	-,--	-,--	-,--
Çanakkale	M46	0	0,82	BDL	0,19	0,41	2,15	0,72	0,81	5,83
		40	0,29	0,18	1,07	3,06	0,67	1,26	-,--	0,88
	E14	0	0,54	BDL	BDL	0,81	1,79	1,04	1,03	-,--
		60	0,17	0,33	0,64	3,06	0,61	-,--	-,--	-,--



41.5

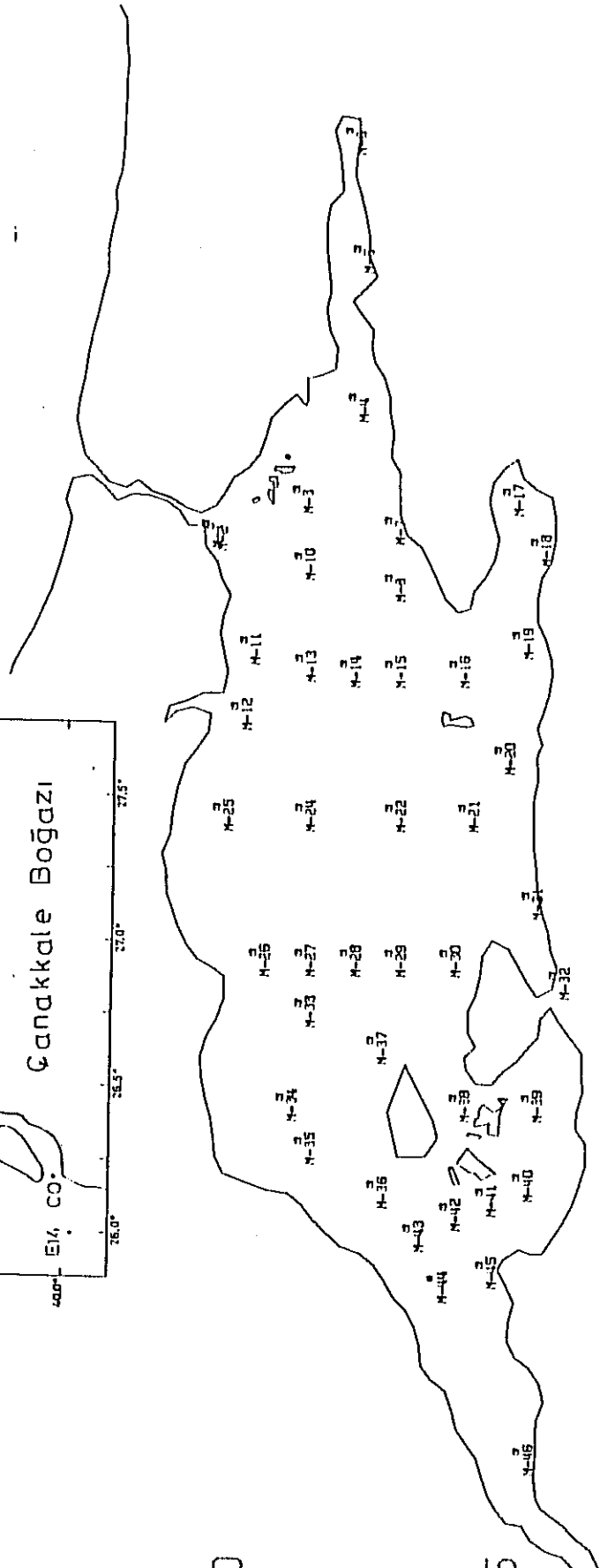
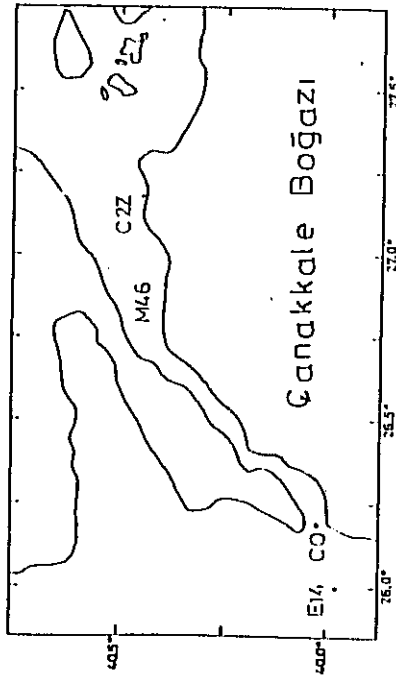
41.0

40.5



27.0 27.5 28.0 28.5 29.0 29.5 30.0

ŞEKİL 1. Şubat, 1989 Döneminde Marmara Denizi ve boğazlarında ziyaret edilen istasyonların adları ve yerleri



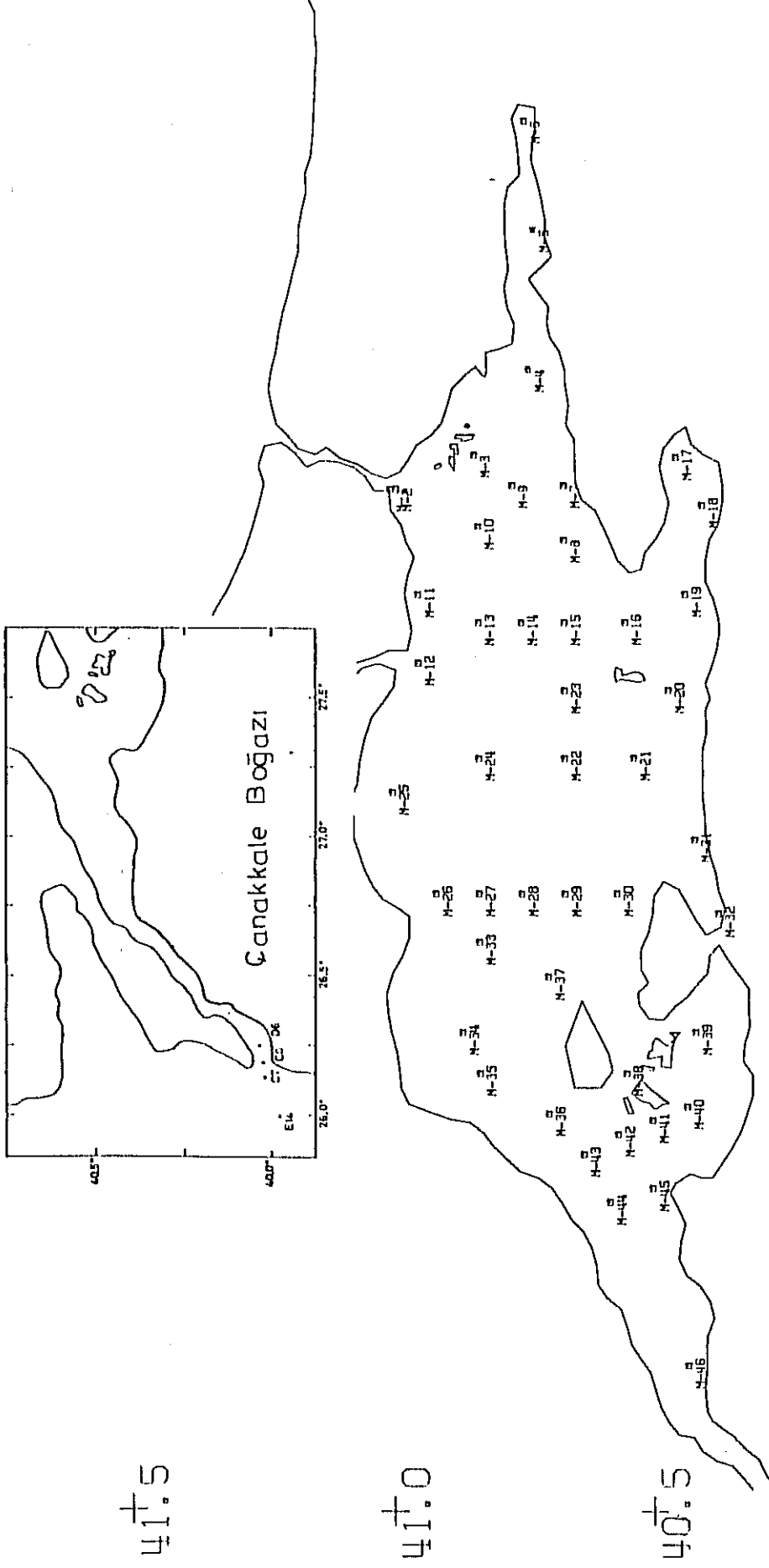
41.5

41.0

40.5

27.0 27.5 28.0 28.5 29.0 29.5 30.0

ŞEKİL 2. Mart , 1989 Döneminde Marmara Denizi ve boğazlarında ziyaret edilen istasyonların adları ve yerleri



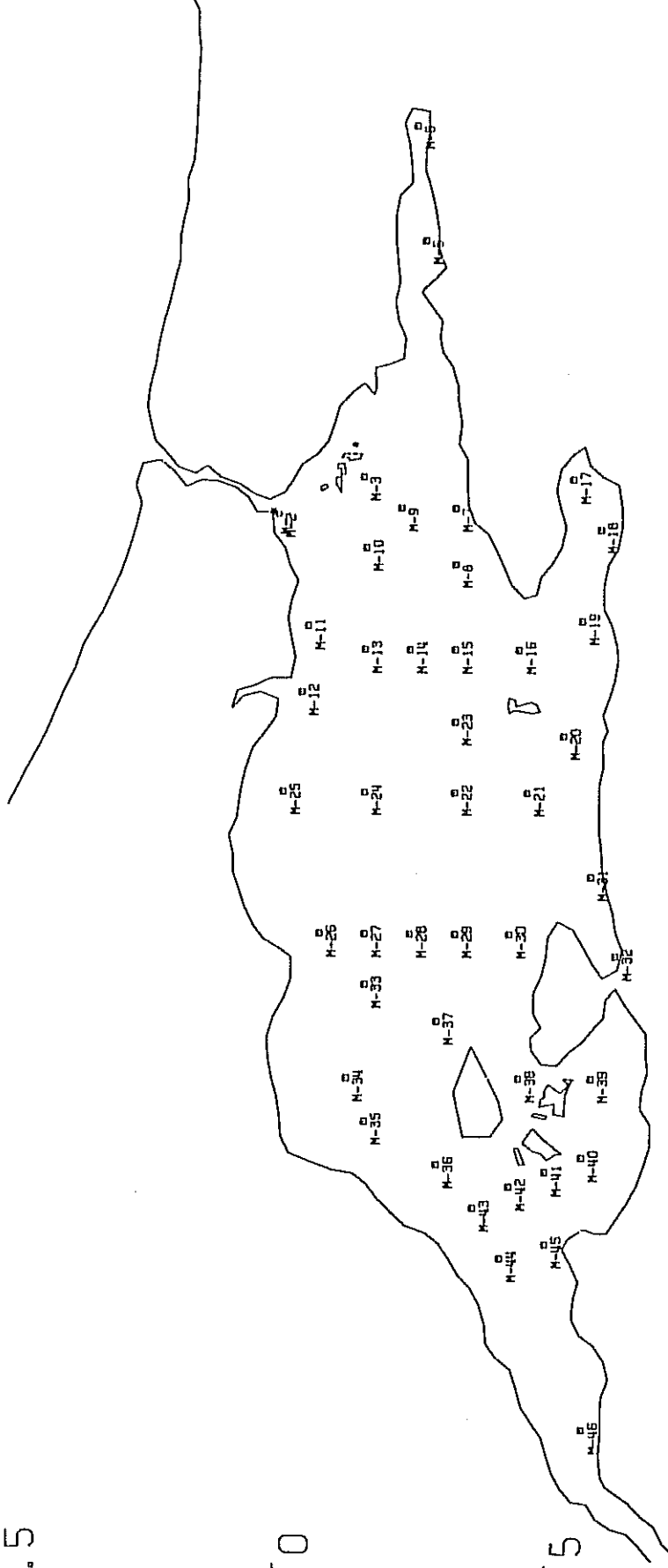
27.0 27.5 28.0 28.5 29.0 29.5 30.0

ŞEKİL 3. Eylül, 1989 Döneminde Marmara Denizi ve boğazlarında ziyaret edilen istasyonların adları ve yerleri

41.5

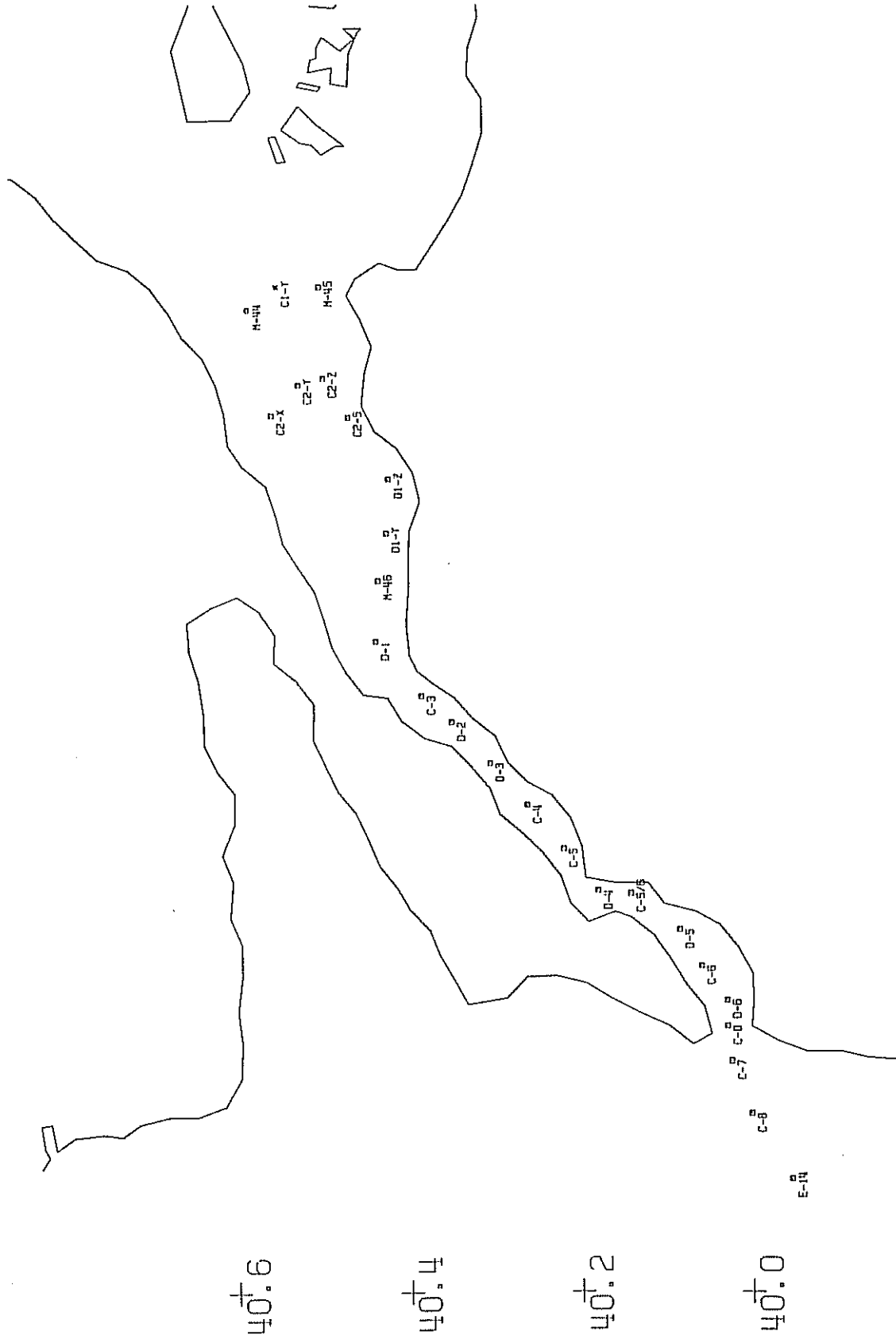
41.0

40.5



27.0 27.5 28.0 28.5 29.0 29.5 30.0

Şekil-4a: Şubat, 1989 döneminde Marmara Denizi boyunca fiziksel parametrelerin ölçüldüğü istasyonlar



26°0 26°2 26°4 26°6 26°8 27°0 27°2 27°4

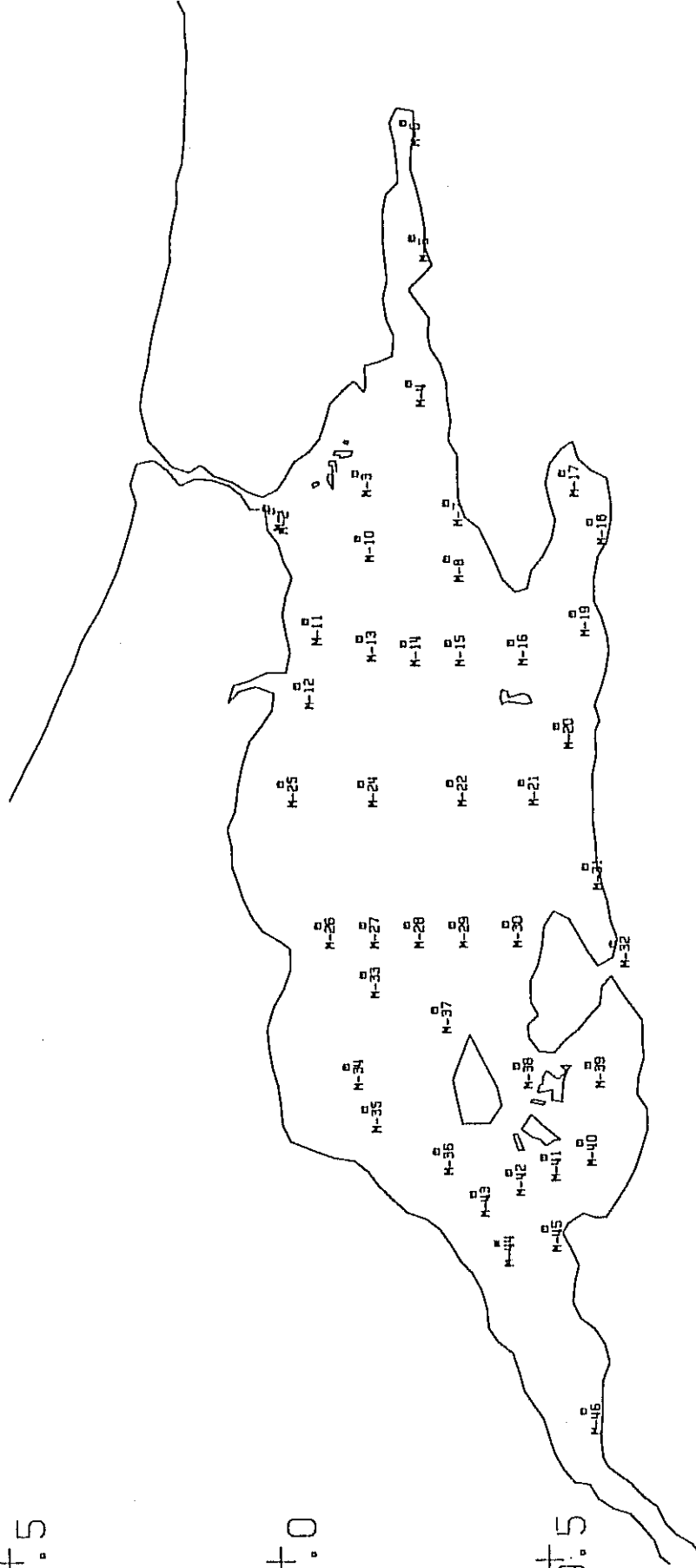
Şekil-4b: Şubat, 1989 döneminde Çanakkale Boğazi boyunca fiziksel parametrelerin ölçüldüğü istasyonlar



41.5

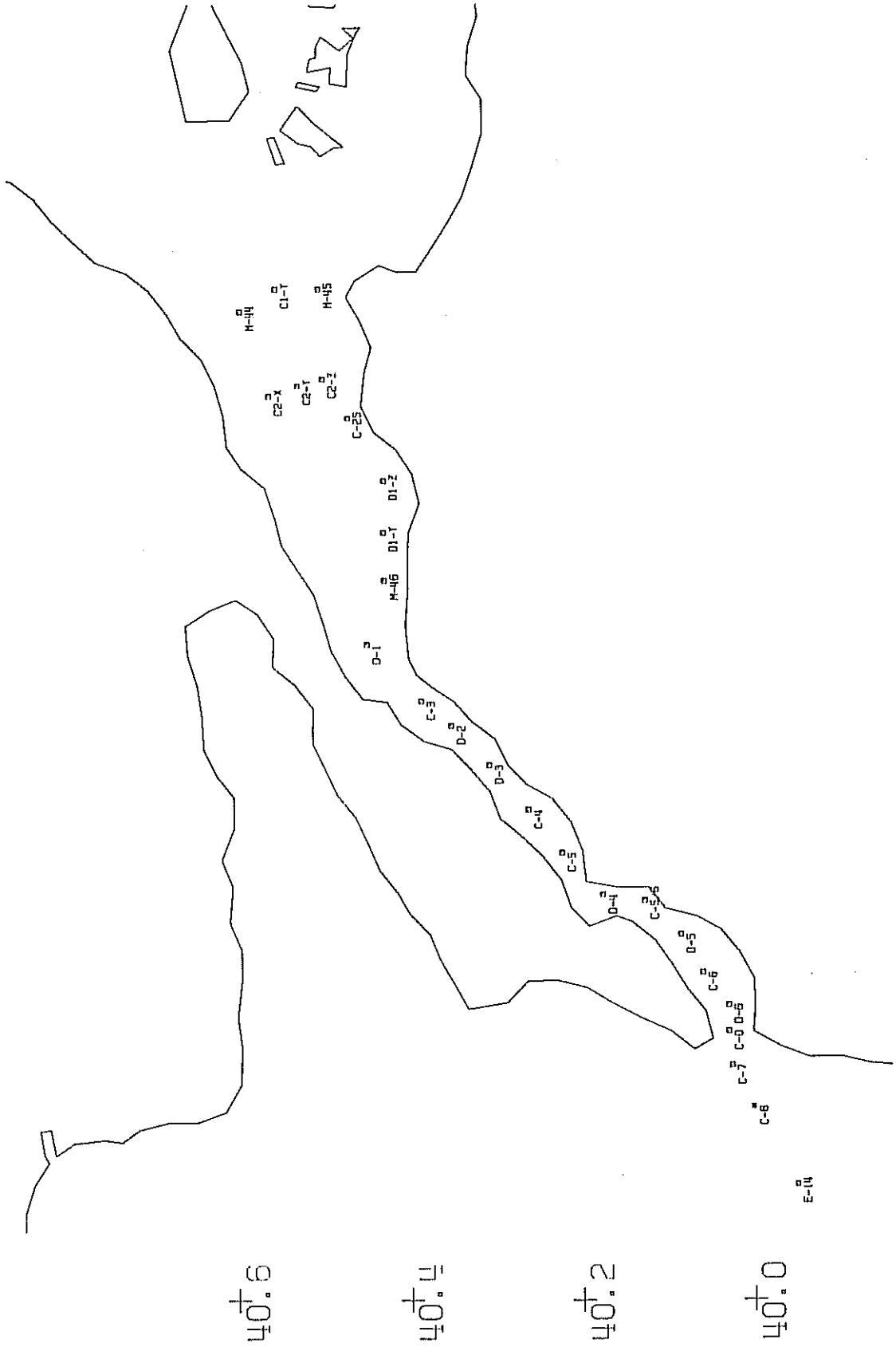
41.0

40.5



27.0 27.5 28.0 28.5 29.0 29.5 30.0

Şekil-5a: Mart, 1989 döneminde Marmara Denizi boyunca fiziksel parametrelerin ölçüldüğü istasyonlar



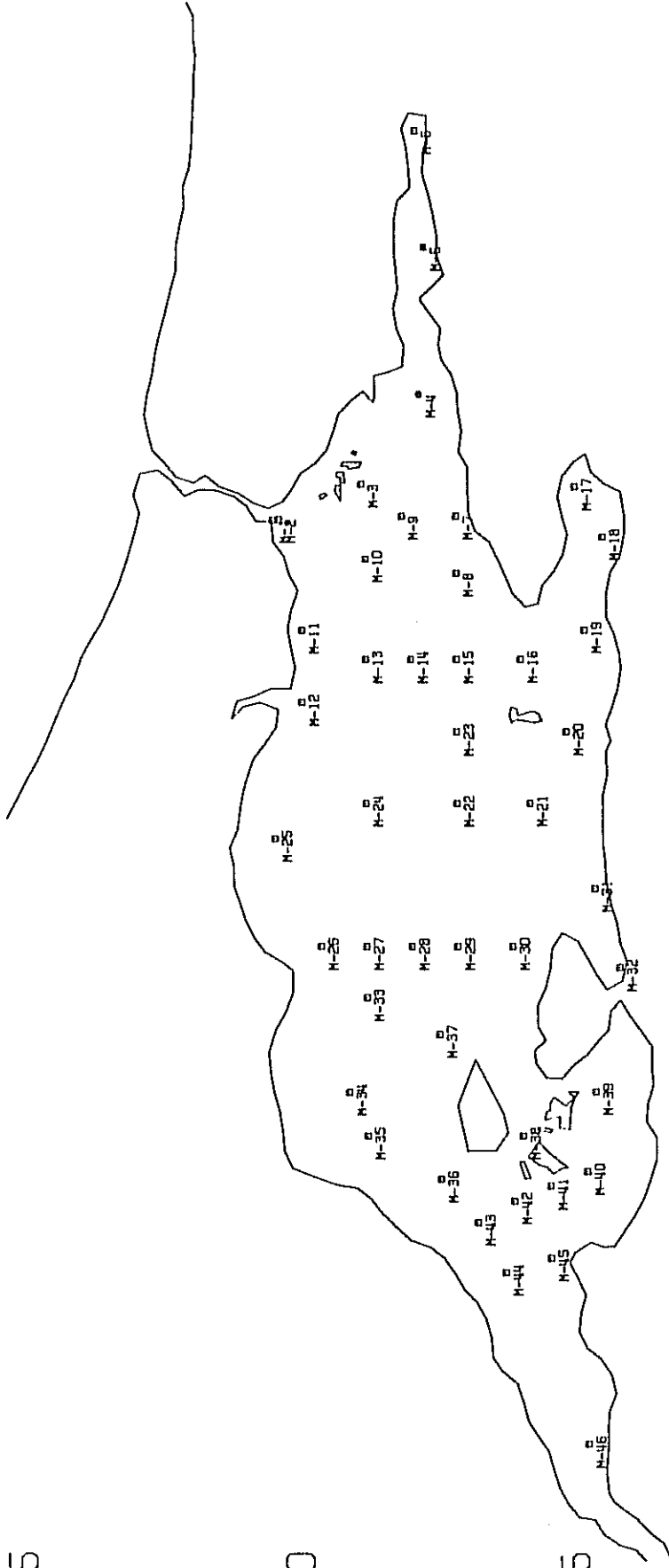
26.0 26.2 26.4 26.6 26.8 27.0 27.2 27.4

Şekil-5b: Mart, 1989 döneminde Çanakkale Boğazı boyunca fiziksel parametrelerin ölçüldüğü istasyonlar

41.5

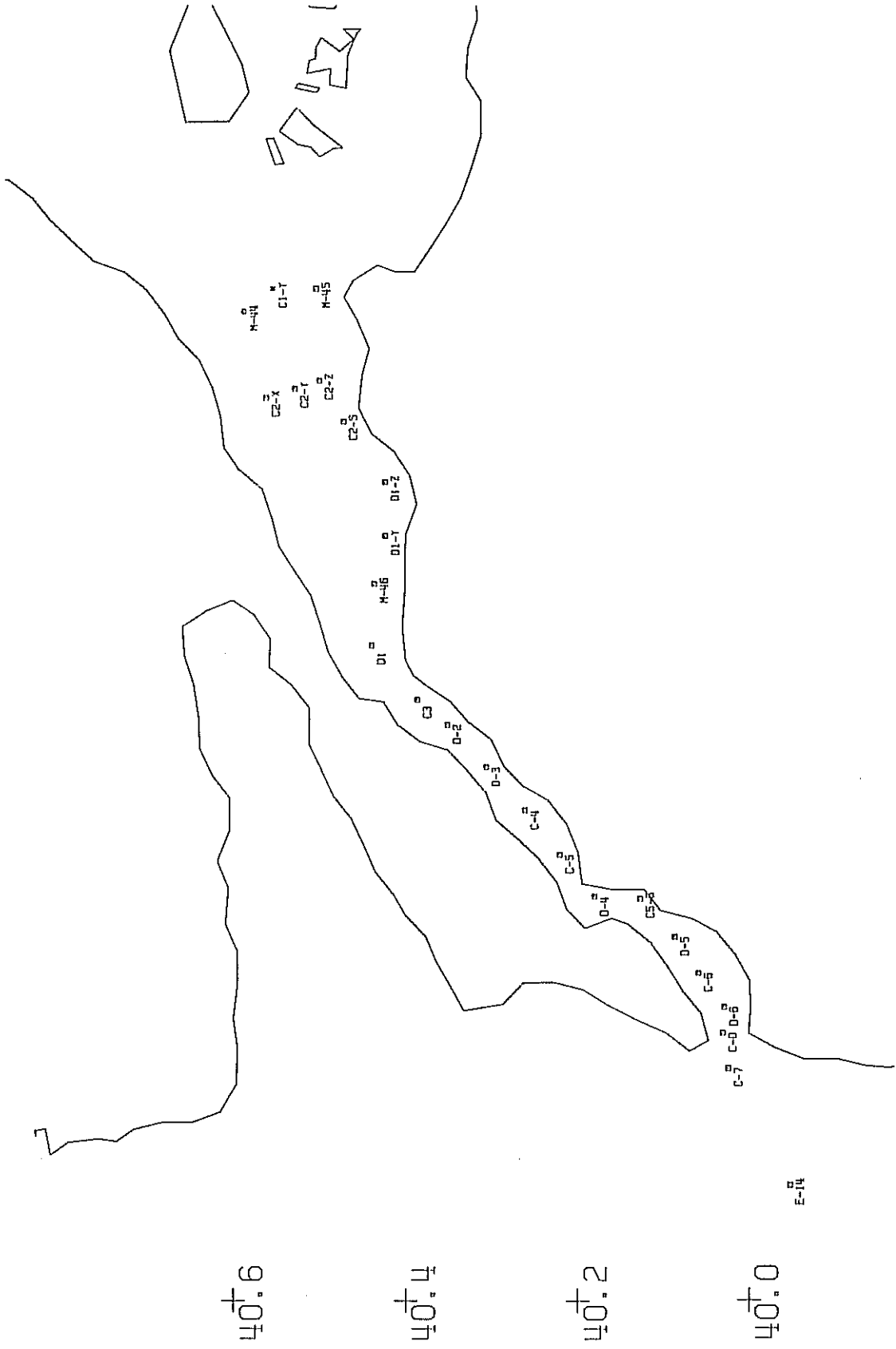
41.0

40.5



27.0 27.5 28.0 28.5 29.0 29.5 30.0

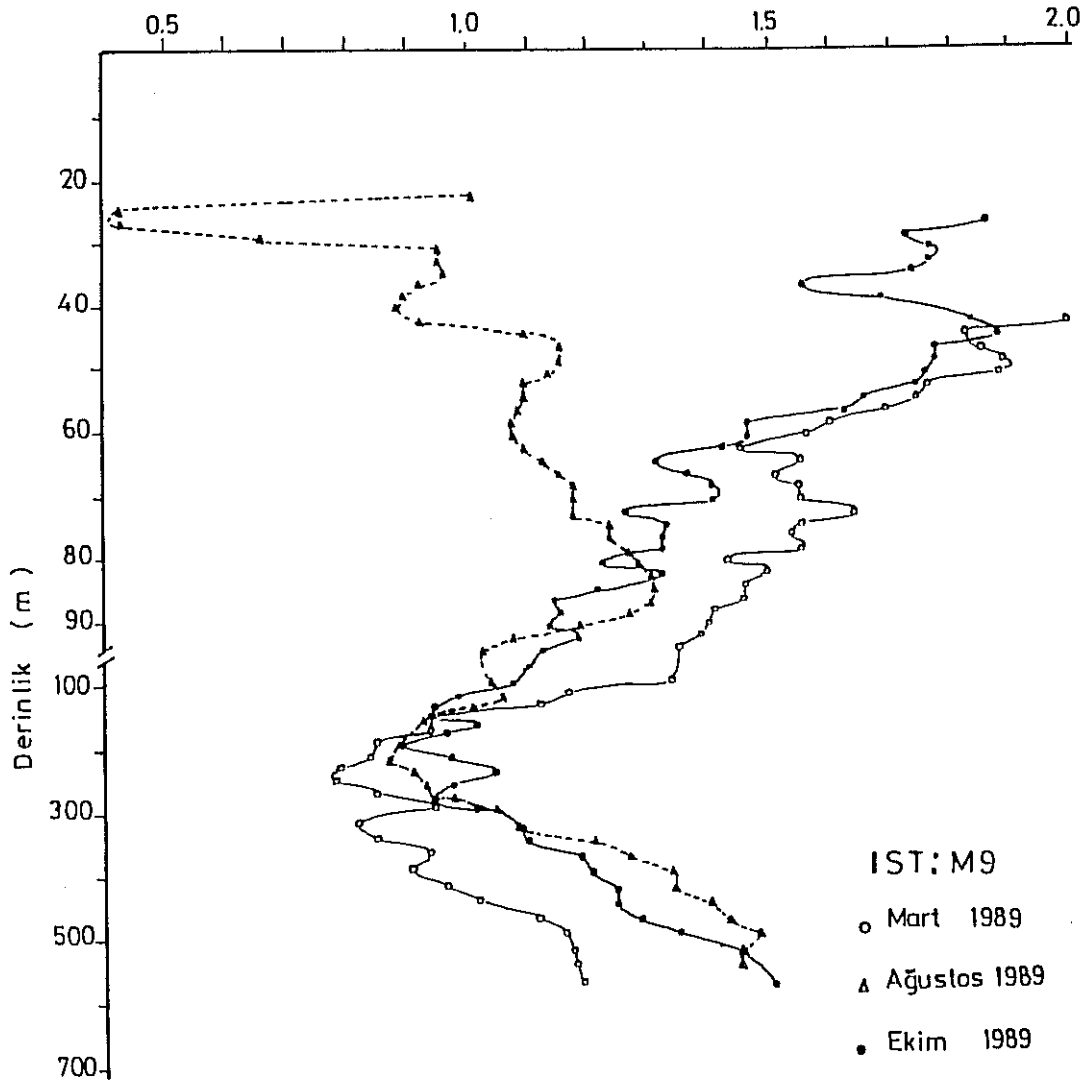
Şekil-6a: Eylül, 1989 döneminde Marmara Denizi boyunca fiziksel parametrelerin ölçüldüğü istasyonlar

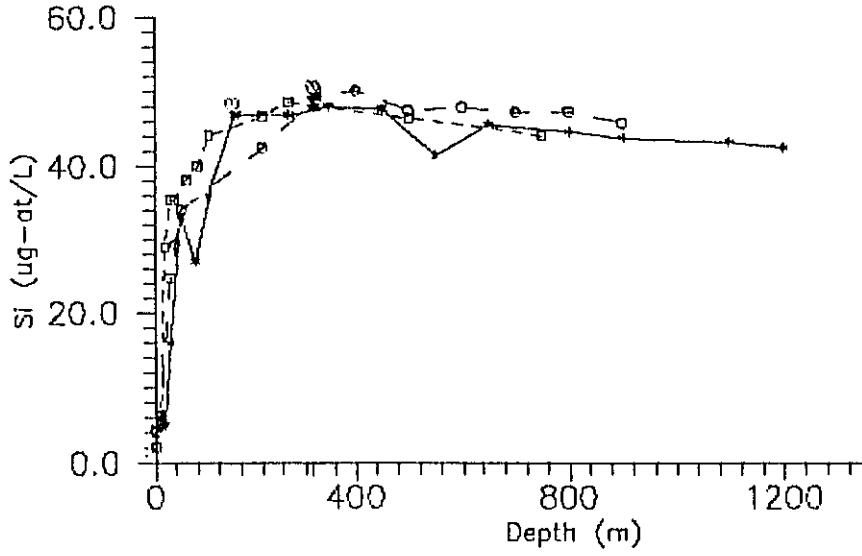


26.0 26.2 26.4 26.6 26.8 27.0 27.2 27.4

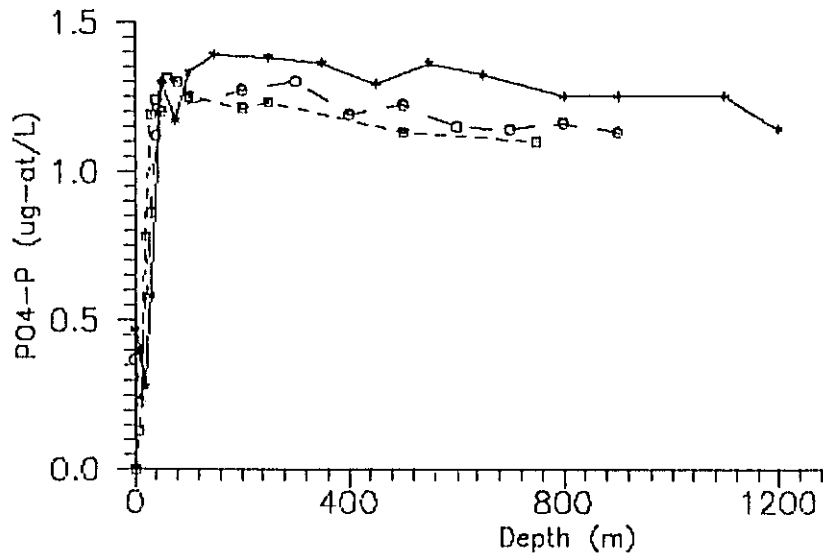
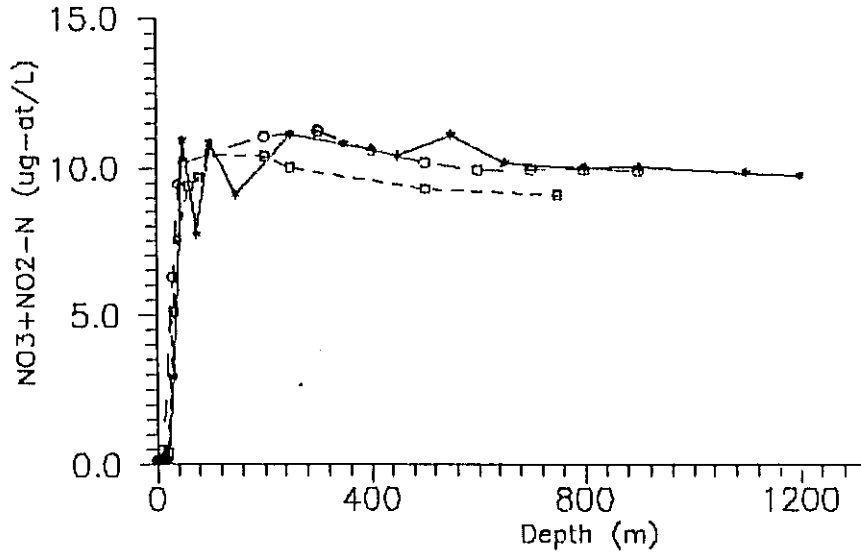
Şekil-6b: Eylül, 1989 döneminde Çanakkale Boğazı boyunca fiziksel parametrelerin ölçüldüğü istasyonlar

ÇÖZÜNÜMÜŞ OKSİJEN (mg/l)

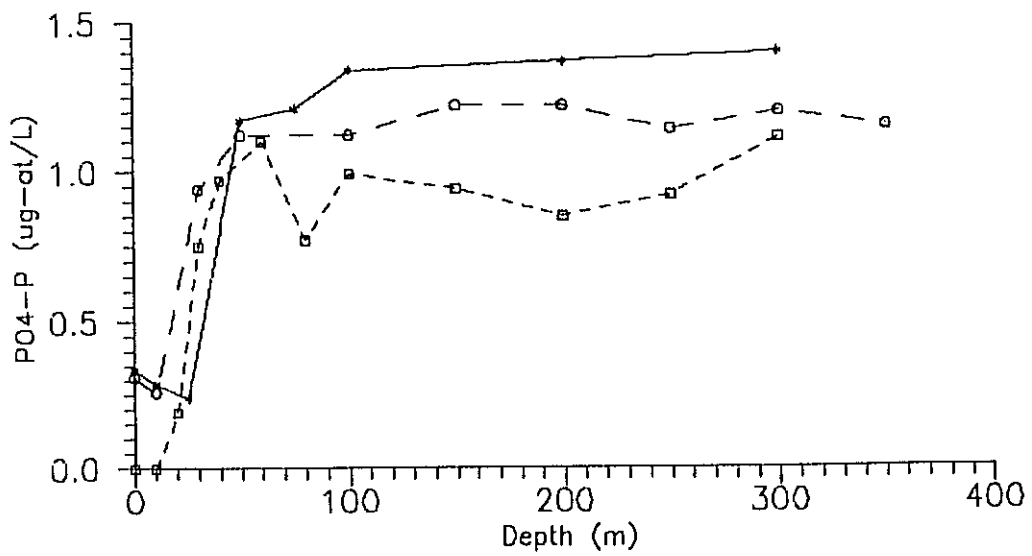
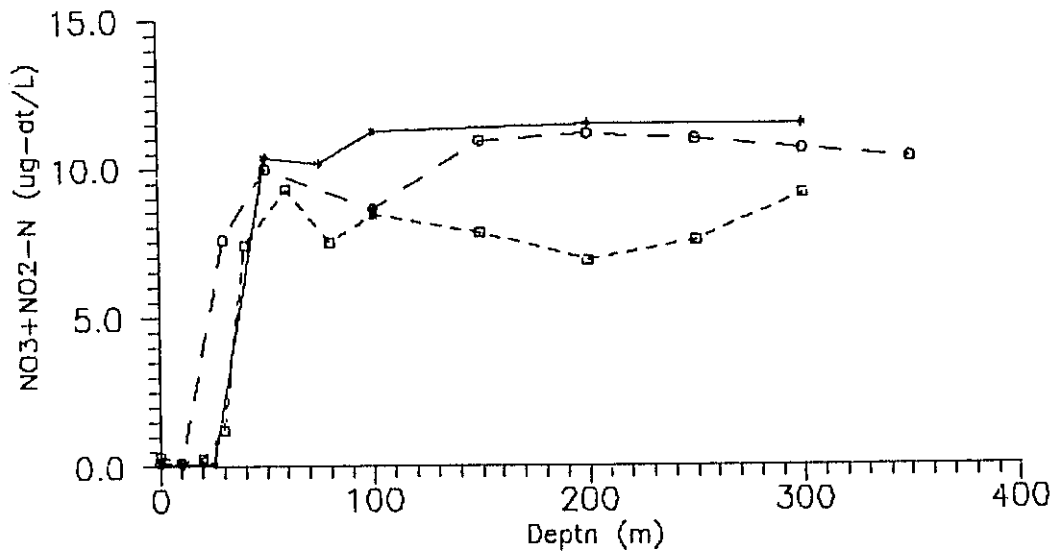
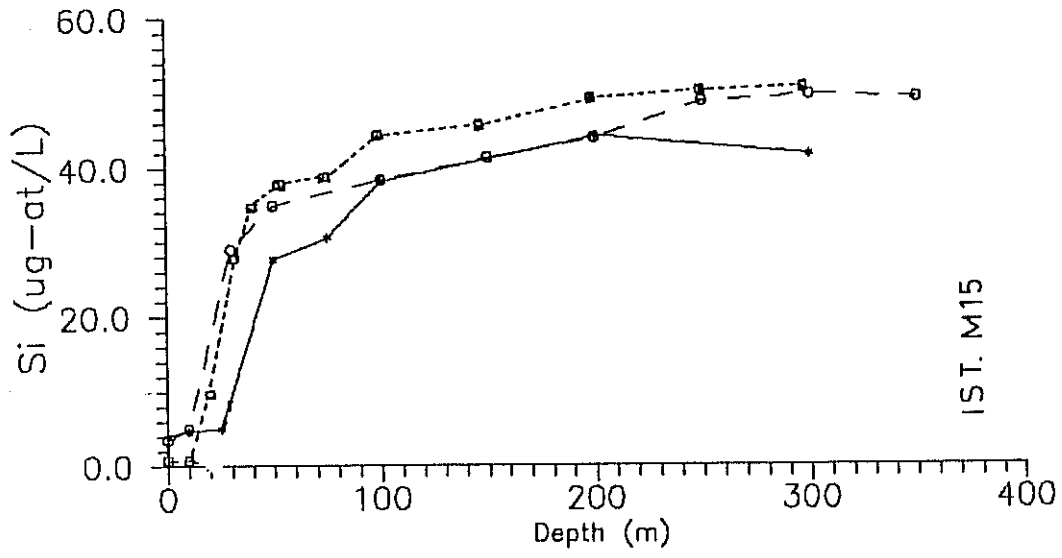




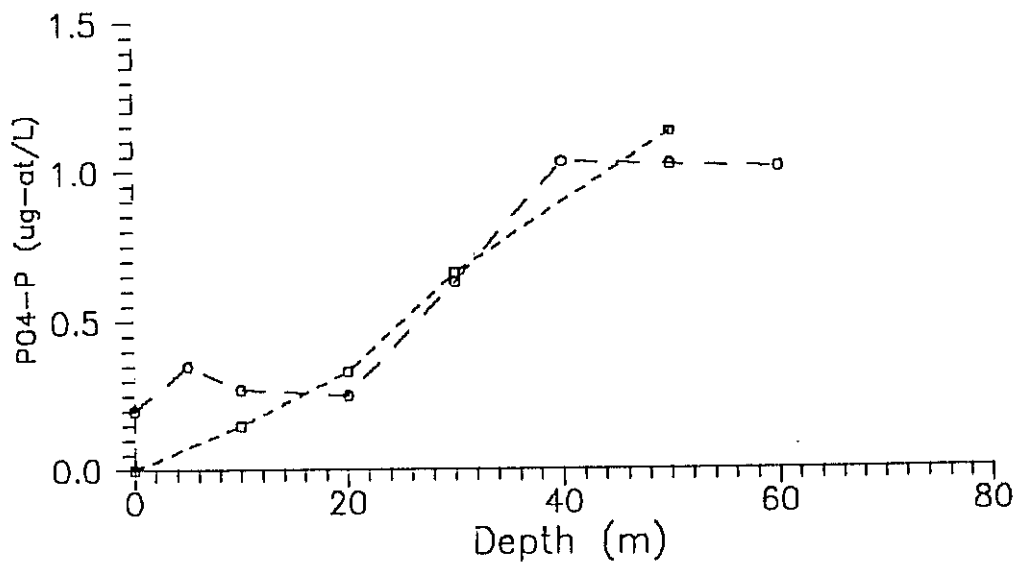
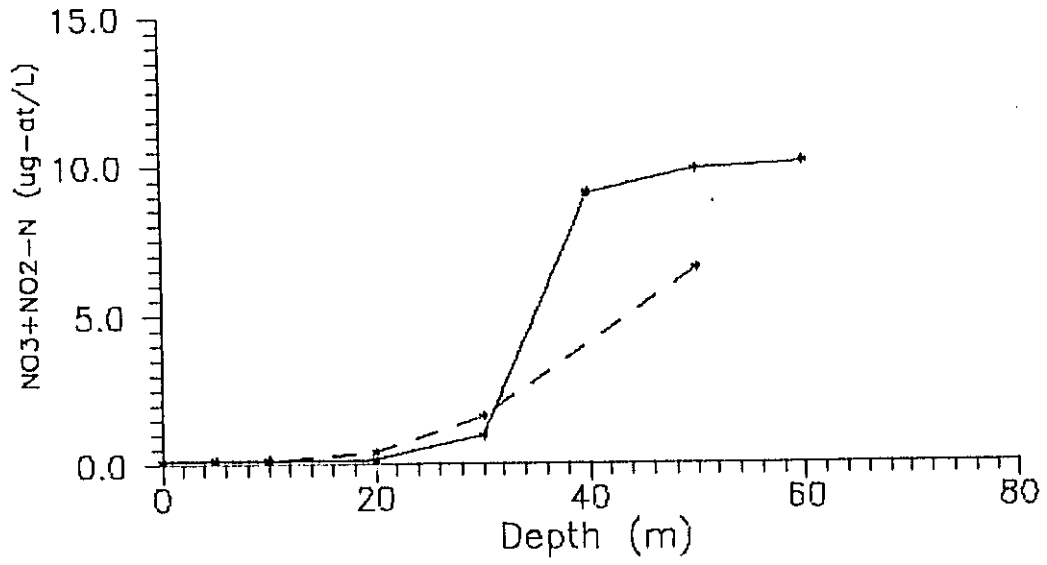
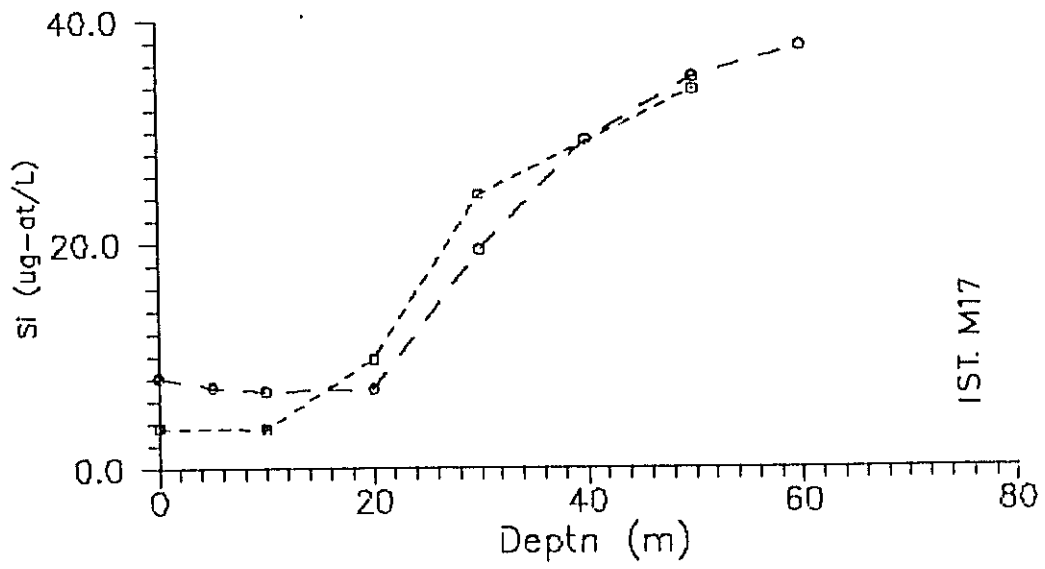
IST. M9



Şekil-8: Marmara Denizi'nin farklı kesimlerinde besin tuzlarının  
 — Şubat, 1989, --- Mart, 1989 ve --- Eylül, 1989 dönemlerinde  
 gözlenen değişimleri

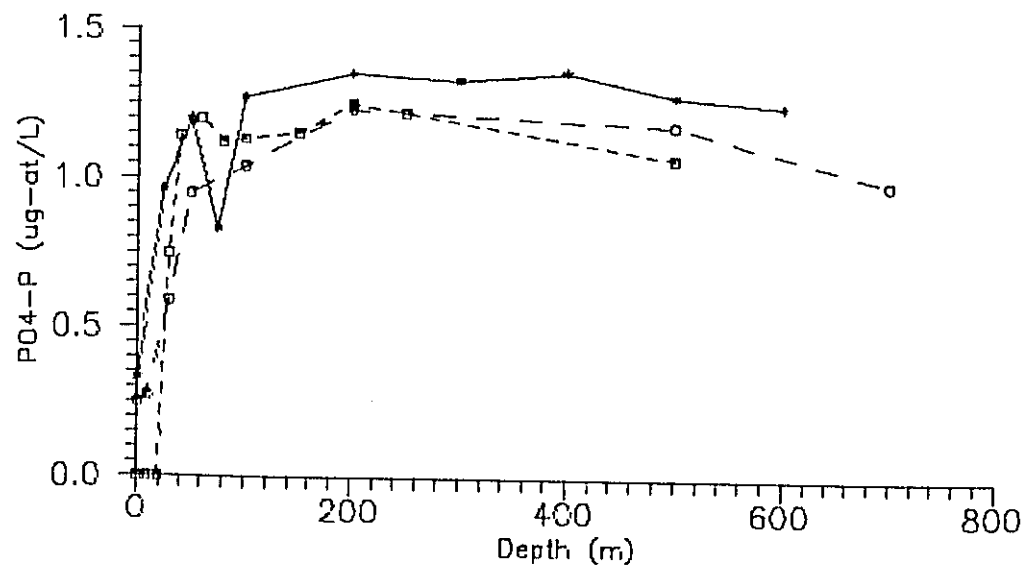
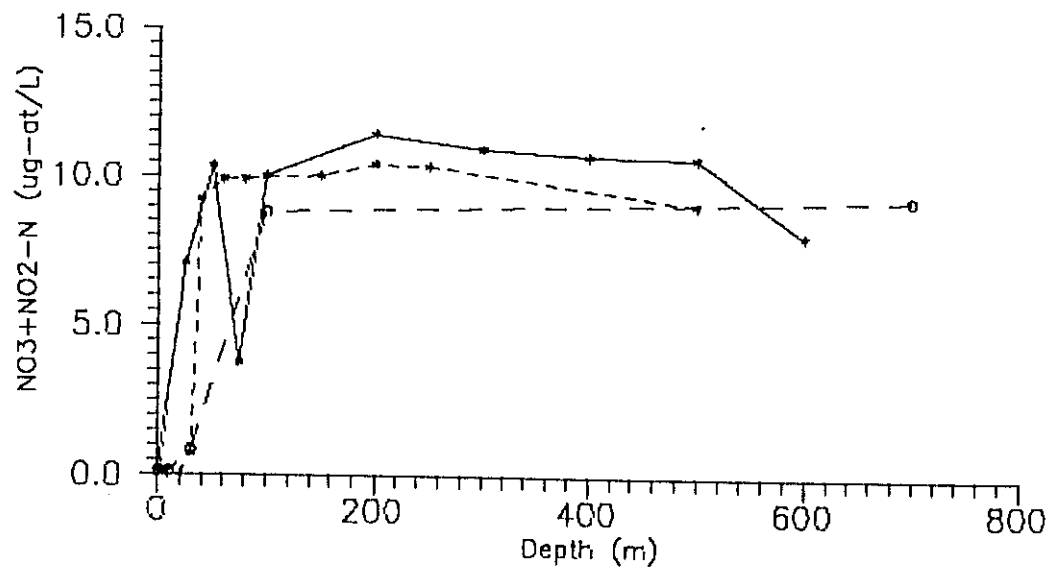
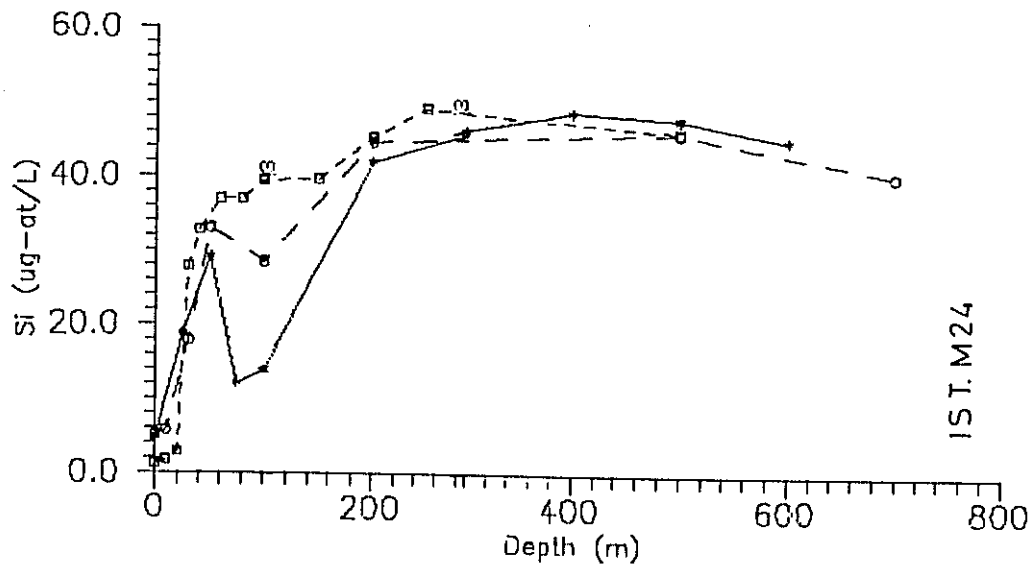


Şekil-8: (Devam)

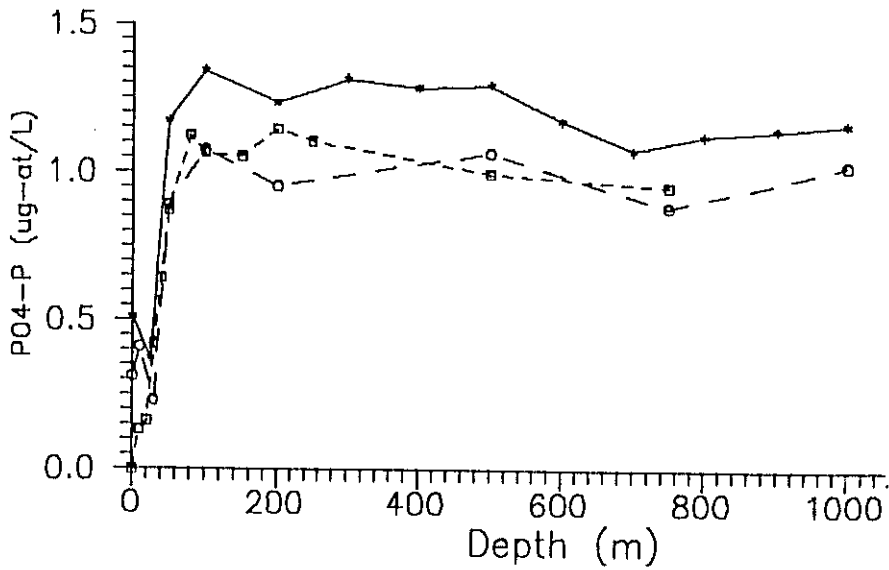
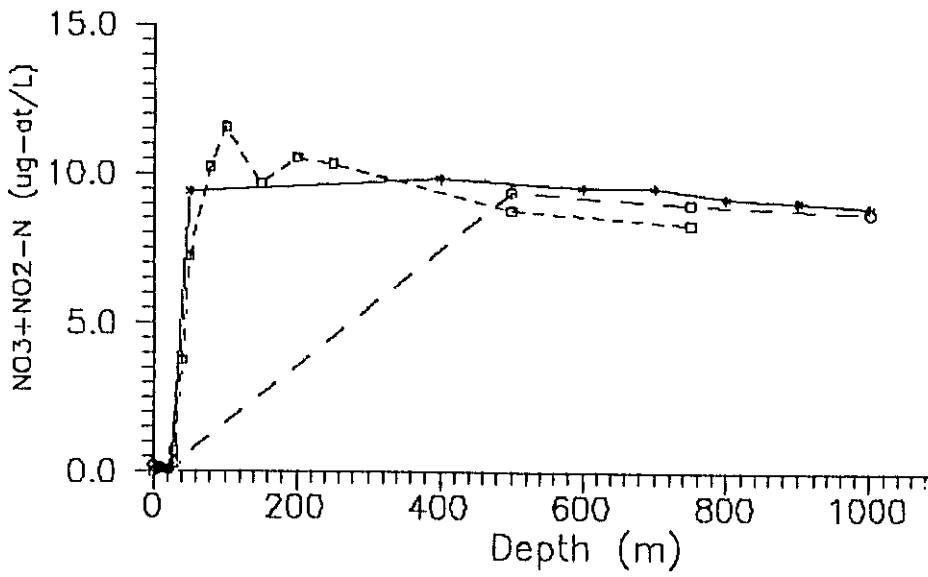
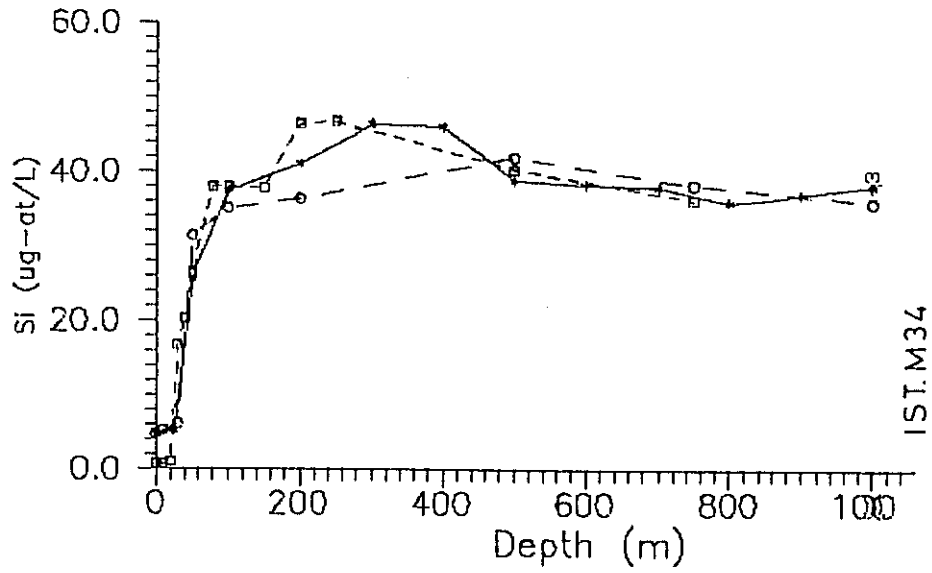


Şekil-8: (Devam)

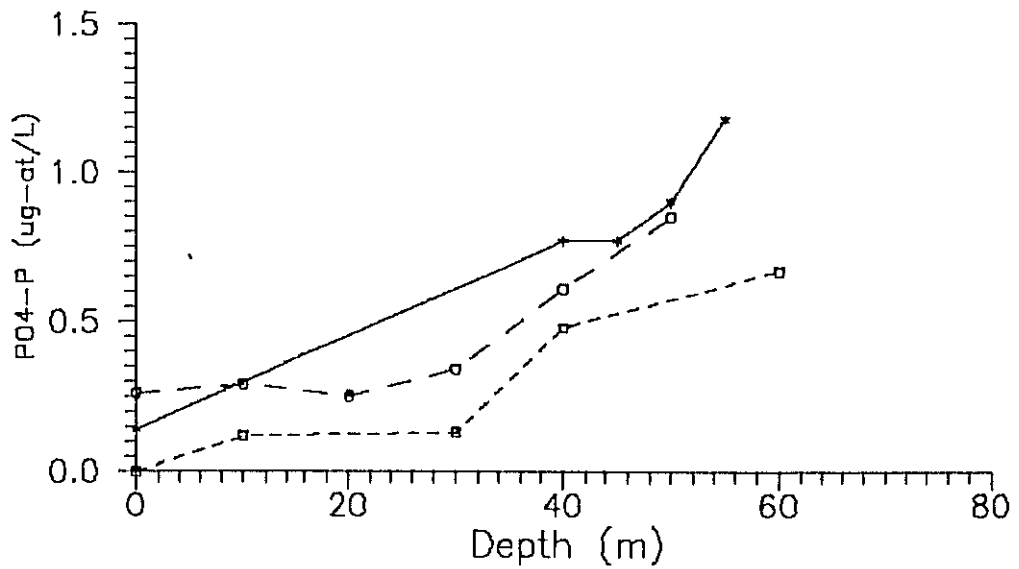
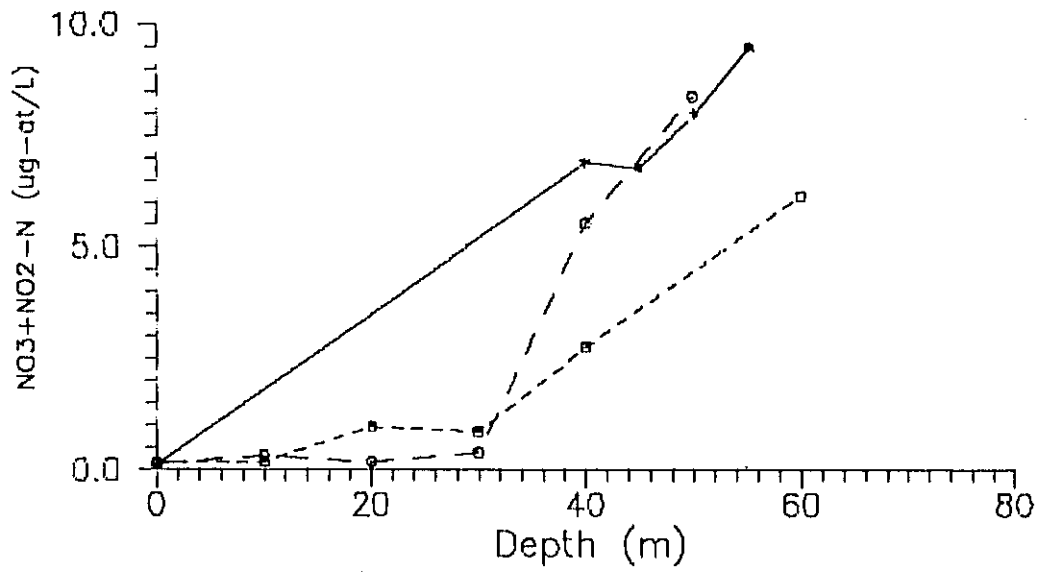
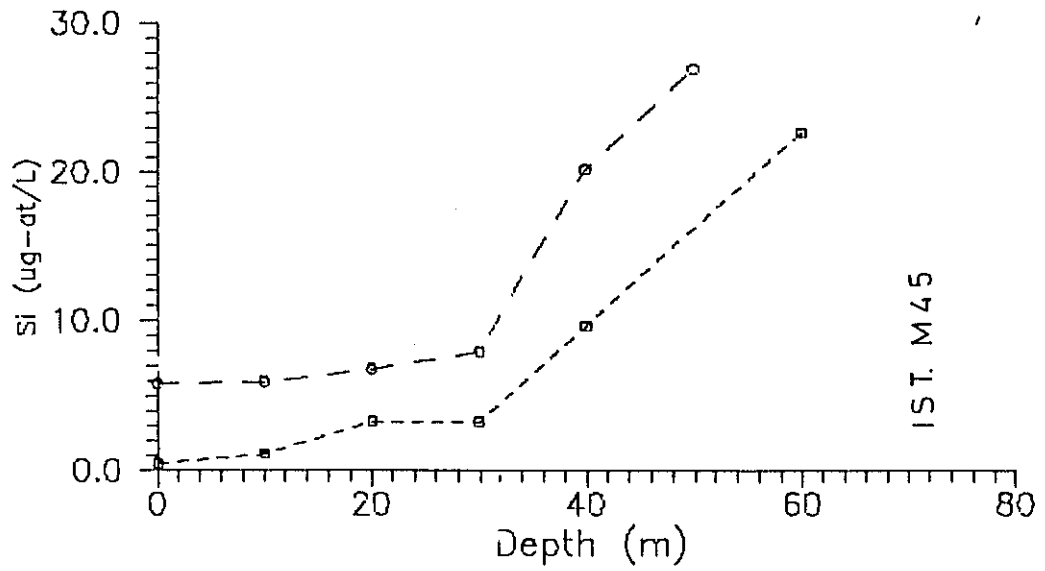




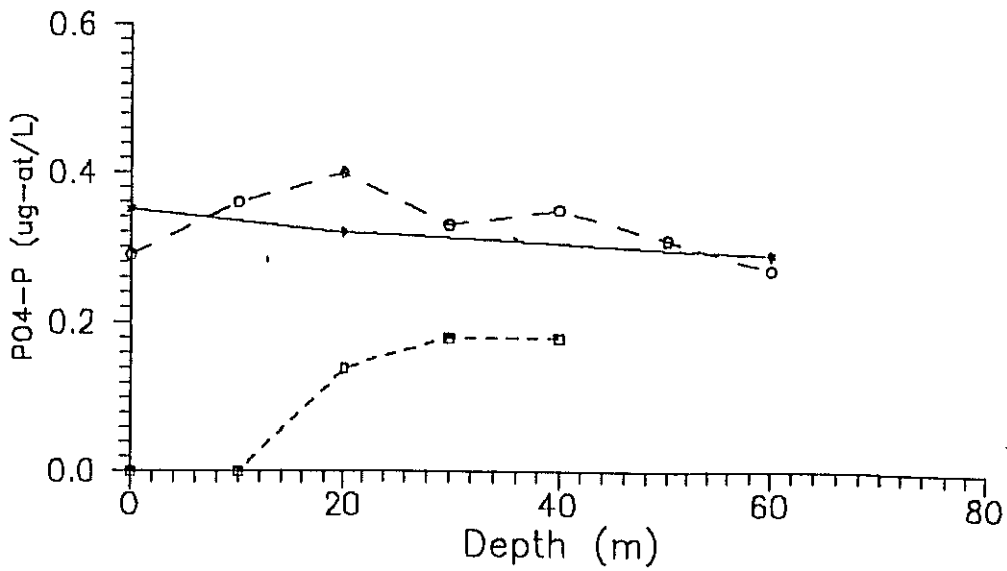
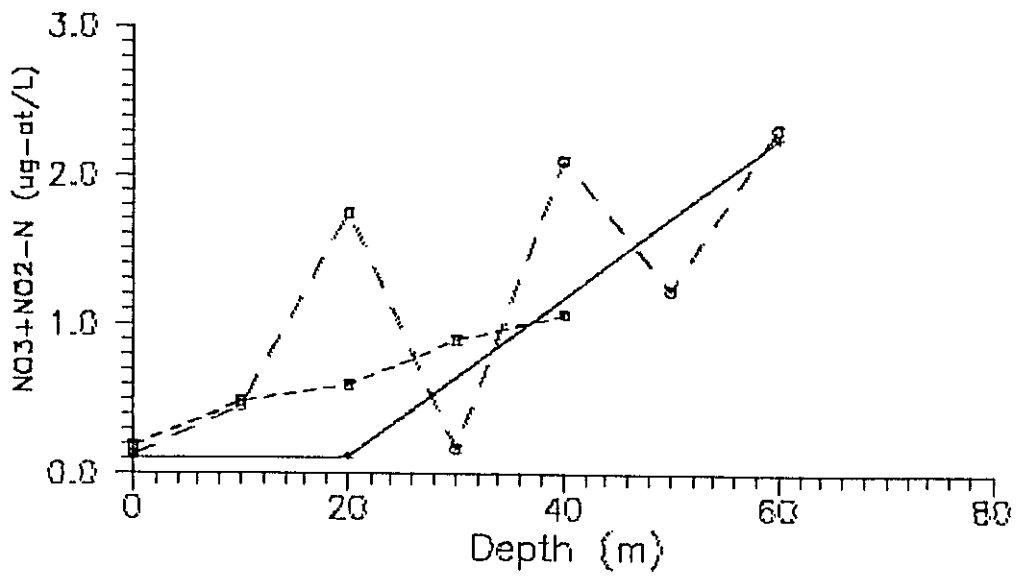
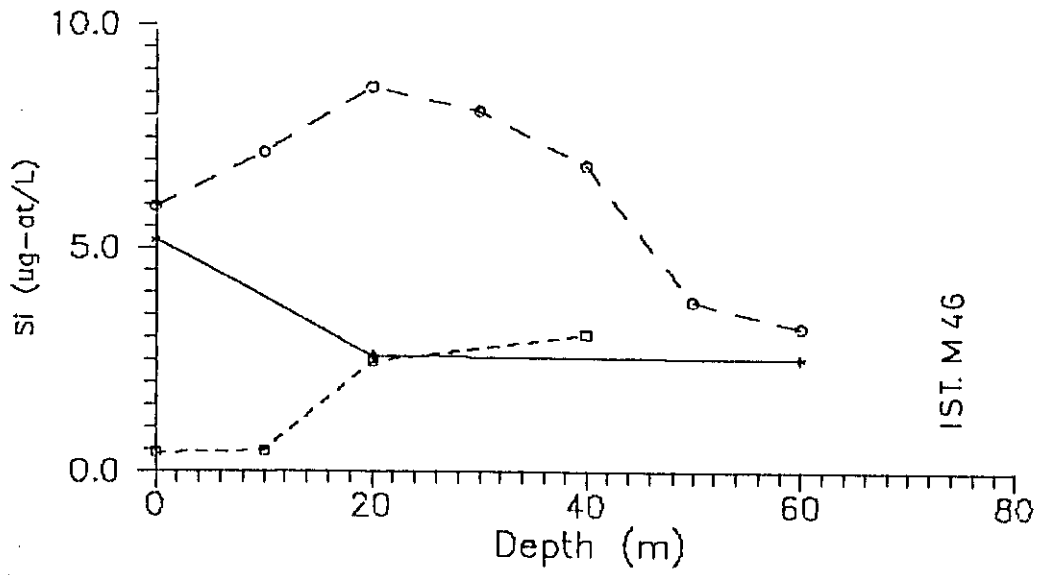
Şekil-8: (Devam)



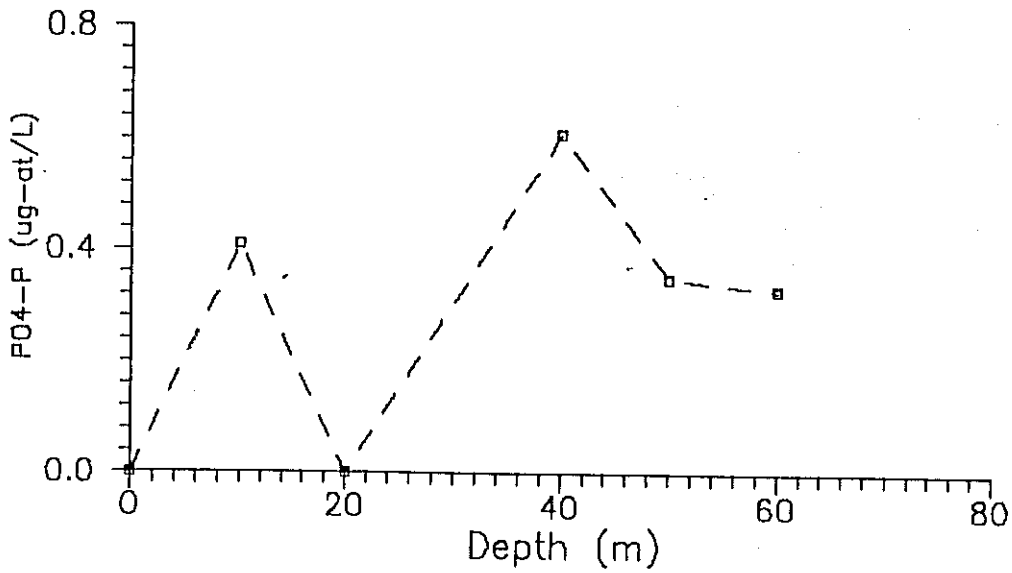
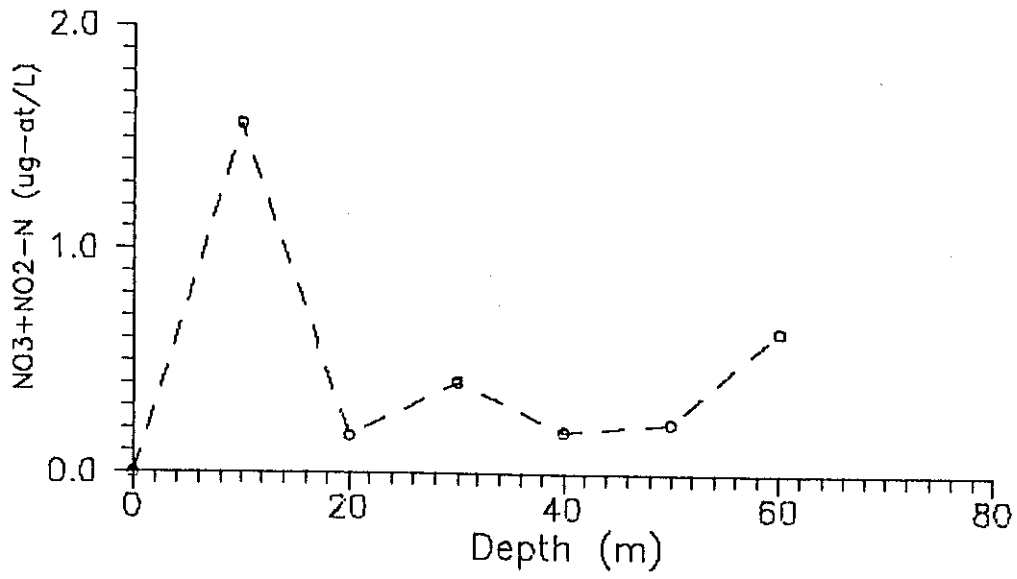
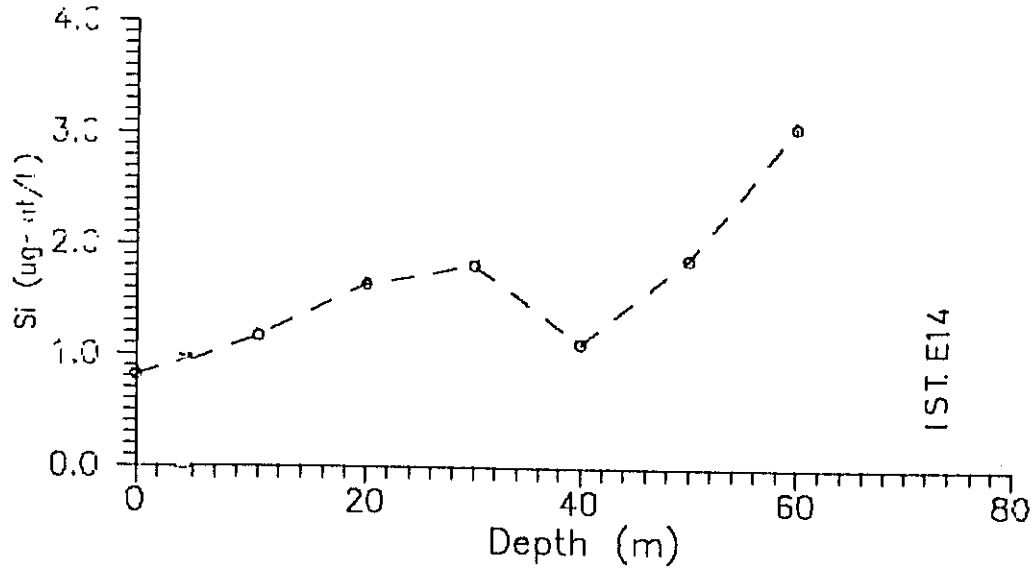
Şekil-8: (Devam)



Şekil-8: (Devam)



Şekil-8: (Devam)



Şekil-8: (Devam)