

RAPPORTS DE MISSIONS

SCIENCES DE LA MER

OCÉANOGRAPHIE

N° 4

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Rapport de la campagne ÉQUALIS  
à bord du NO ALIS  
pendant la période d'observations intensives  
de l'opération COARE  
du 3 novembre au 12 décembre 1992

Marie-Hélène RADENAC  
Martine RODIER  
Arata KANEKO  
Sylvain BONNET  
Hervé OIRY  
Jean-Yves PANCHÉ

J G  F S



Document de travail

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**ORSTOM**

L'INSTITUT FRANÇAIS DE RECHERCHE SCIENTIFIQUE  
POUR LE DÉVELOPPEMENT EN COOPÉRATION

CENTRE DE NOUMÉA

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Nouméa : ORSTOM. Décembre 1993. 491 p.  
*Missions : Sci. mer : Océanogr. ; 4*

Ø300CECAM

CAMPAGNE OCEANOGRAPHIQUE ; SEL NUTRITIF ; SALINITE ; CHLOROPHYLLE ;  
METEOROLOGIE ; COURANT ; TEMPERATURE / PACIFIQUE TROPICAL OUEST

Imprimé par le Centre ORSTOM  
Décembre 1993

 ORSTOM Nouméa  
REPROGRAPHIE

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## REMERCIEMENTS

La réussite de l'opération à bord du N.O. ALIS, navire océanographique de l'ORSTOM, a reposé sur l'enthousiasme et l'efficacité de l'ensemble du personnel embarqué ou à terre. Nous remercions tout particulièrement les officiers et les membres de l'équipage pour leur participation active et efficace à toutes les opérations à la mer, clef du succès logistique de la campagne.

Notre équipe ne disposant que de peu de matériel, la campagne n'aurait pu se dérouler sans la collaboration d'autres laboratoires quant au prêt d'instruments. R. Lukas (Université d'Hawaii) a généreusement prêté la sonde CTD et C. Oudot (ORSTOM, Cayenne) la rosette. F. Bradley (CSIRO, Canberra) a fourni et installé tout le matériel météorologique. Enfin, O. Thiele (NASA) a mis à notre disposition un pluviomètre optique, P. Niiler (SIO, La Jolla) nous a confié les bouées dérivantes et la Mission Océanologique du Pacifique (Marine Nationale) nombre de canettes d'échantillonnage de salinité. Qu'ils en soient tous remerciés.

Nous sommes également reconnaissants à B. Buisson dont les travaux ont permis de développer et d'adapter pour les besoins de la campagne des logiciels d'acquisition et de calculs. Nous tenons à remercier les électroniciens du Centre ORSTOM de Nouméa pour leur aide dans la préparation du matériel d'hydrologie et de météorologie. Nous remercions P. Gérard qui a assuré au laboratoire l'ensemble des analyses de chlorophylle et C. Menkès qui a effectué, au retour de campagne, les mesures de salinité à bord du N.O. Le Noroît. Pour finir, n'oublions pas un coup de chapeau à notre chef mécanicien pour ces talents de caricaturiste!



## RÉSUMÉ

La campagne océanographique EQUALIS est une opération commune aux programmes internationaux JGOFS (Joint Global Ocean Flux Study) et TOGA-COARE (Tropical Ocean and Global Atmosphere - Coupled Ocean Atmosphere Response Experiment) organisée par le groupe FLUPAC (Flux dans l'ouest du Pacifique équatorial) du centre ORSTOM de Nouméa, Nouvelle Calédonie, avec la participation ou la collaboration de chercheurs japonais et australiens. Elle a eu lieu du 3 novembre au 12 décembre 1992 à bord du navire océanographique de l'ORSTOM, l'ALIS et a consisté en deux points fixes à 156°15E, 1°30S (10 jours) et 156°10E, 1°45S (8 jours), interrompus par une journée d'intercomparaison de mesures météorologiques avec un navire océanographique australien.

Au cours de cette campagne 193 stations ont été effectuées. Elles comprenaient un trait de bathysonde CTD (0 - 500 ou 1000 m) avec prélèvements d'échantillons d'eau de mer à l'aide d'une rosette. Ces échantillons ont permis l'analyse des sels nutritifs dissous (nitrate, nitrite, phosphate et silicate) et des pigments chlorophylliens sur la couche 0 - 200 m, et le dosage de la salinité pour les stations à 1000 m. Plusieurs types de mesures en continu ont été réalisés: le courant absolu de 20 à 350 - 400 m, à l'aide d'un profileur de courant acoustique à effet Döppler, la température et la salinité de surface, la quantité de pluie ainsi que les paramètres météorologiques (températures air sec et air humide, direction et module du vent, rayonnement solaire incident) enregistrés toutes les 15 minutes. Enfin, trois bouées dérivantes équipées d'un capteur de température de surface ont été larguées et les officiers du bord ont effectué des observations météorologiques au début de chaque station sonde.

Ce rapport présente le déroulement de la campagne, le matériel et les méthodes employés et les premiers résultats obtenus.

**MOTS CLÉS:** campagne océanographique, Pacifique tropical ouest, température, salinité, courant, paramètres météorologiques, sels nutritifs, chlorophylle, JGOFS, COARE.



## ABSTRACT

The oceanographic cruise EQUALIS, a joint operation of both international programs JGOFS (Joint Global Ocean Flux Study) and TOGA-COARE (Tropical Ocean and Global Atmosphere - Coupled Ocean Atmosphere Response Experiment) has been organized by the FLUPAC group of the centre ORSTOM de Nouméa, New Caledonia, with the participation and the collaboration of Japanese and Australian scientists. It was carried out from November 3rd to December 12th, 1992 on board the ORSTOM research vessel ALIS and consisted of two fixed stations at 156°15E, 1°30S (10 days) and 156°10E, 1°45S (8 days), interrupted during one day for intercomparison of meteorological measurements with an Australian research vessel.

193 stations have been made during this cruise. Each of them included a CTD cast (0 - 500 or 1000 m) with sea water rosette sampling. Water samples were analyzed for nutrients (nitrate, nitrite, phosphate, and silicate) and chlorophyll on the 0 - 200 m layer, and for salinity when samples were taken at 1000 m. Continuous measurements were made: absolute current with an Acoustic Doppler Current Profiler and surface temperature and salinity, rainfall, and meteorological parameters (dry and wet air temperatures, wind speed and direction, incoming solar radiation) have been recorded every 15 minutes. Three drifting buoys were launched and meteorological measurements were made at the beginning of each CTD cast by the crew.

This report details the cruise operations, utilized materials and methods, and it presents preliminary results.

**KEY WORDS:** oceanographic cruise, western tropical Pacific, temperature, salinity, current, meteorological parameters, nutrients, chlorophyll, JGOFS, COARE.



## 1. INTRODUCTION

La perspective d'un changement climatique global dû à l'augmentation de CO<sub>2</sub> atmosphérique, a fait prendre conscience de la nécessité de mieux comprendre les mécanismes de production primaire marine. La capacité de l'océan à engendrer un flux de carbone vers les eaux profondes, équivalent à la production nouvelle que mesurent les biologistes, est une quantité mal connue dont la détermination est indispensable à la prévision de l'évolution du climat de la planète. Pour mieux décrire et comprendre la production primaire marine et ses réponses aux variations de l'environnement, il est nécessaire d'avoir identifié et compris les mécanismes physiques responsables des apports de sels nutritifs dans la couche euphotique. C'est donc le type même de recherche qui, pour être menée à bien, doit être pluridisciplinaire.

JGOFS (Joint Global Ocean Flux Study) est l'un des grands programmes internationaux visant à apporter des éléments de réponses à cet important problème. Ses objectifs sont de *"déterminer et comprendre à une échelle globale les mécanismes qui contrôlent les flux de carbone et d'autres éléments d'origine biologique dans l'océan, et d'évaluer les échanges de ces éléments avec l'atmosphère, les sédiments, et les marges continentales"* (Anonyme, 1987). L'un des thèmes abordés par le programme international JGOFS-Pacifique est l'étude de la ceinture équatoriale. C'est par l'intermédiaire de nombreux programmes nationaux dont le programme FLUPAC (Flux dans l'ouest du Pacifique équatorial), que les multiples aspects de ce vaste sujet de recherche sont traités. L'objectif de ce projet ORSTOM est d'estimer le flux vertical de carbone exporté hors de la couche euphotique vers les couches profondes, en se restreignant à l'étude de la couche supérieure de l'océan (500 m).

TOGA (Tropical Ocean and Global Atmosphere), programme international de recherche sur le climat, s'attache à étudier le couplage entre les océans tropicaux et l'atmosphère globale. Dans le cadre du programme COARE (Coupled Ocean Atmosphere Response Experiment), les études océaniques, atmosphériques et de l'interface océan-atmosphère sont restreintes au Pacifique tropical ouest, région de première importance pour la genèse du phénomène El Niño-Oscillation Australe (ENSO) et ses conséquences sur les perturbations du climat mondial (World Climate Research Programme, 1990). Une composante modélisation, des études pilotes (1990-91), une période de suivi accru (1991-94) et une période d'observations intensives (novembre 1992 - février 1993) permettront de mieux comprendre les processus physiques et les interactions entre l'océan et l'atmosphère intervenant dans la zone d'eaux chaudes du Pacifique tropical ouest.

La campagne océanographique EQUALIS, première campagne du groupe FLUPAC, vise plus particulièrement à estimer l'advection verticale et l'apport en sels nutritifs vers la couche euphotique. Elle se situe donc au confluent des deux grands programmes internationaux cités ci-dessus, l'idée de



départ étant de profiter d'un environnement scientifique exceptionnel pendant la période d'observations intensives, car l'étude des structures verticales hydrologiques, courantologiques et des flux dans la couche homogène sont des thèmes majeurs du programme COARE. Le déroulement de la campagne est présenté au chapitre suivant et les conditions de réalisation des mesures effectuées pendant la campagne sont détaillées aux chapitres 3 à 7. L'ensemble des figures et résultats obtenus est regroupé en annexes.

## 2. DÉROULEMENT DE LA CAMPAGNE

### 2.1. Travaux réalisés

La campagne EQUALIS à bord du N.O. Alis, dont le trajet est reporté sur la figure 1, s'est déroulée du 3 novembre au 12 décembre 1992 et peut être brièvement résumée en trois phases:

- point fixe 1: du 12 au 22 novembre 1992 à 1°30S et 156°15E
- point fixe 2: du 27 novembre au 6 décembre 1992 à 1°45S et 156°10E
- intercomparaison des mesures météorologiques: du 27 novembre (20h30) au 28 novembre (13h00) 1992, avec le navire australien Franklin.

Un point remarquable de ces opérations reste le mouillage de l'Alis par 1800 m de fond du 13 au 21 novembre puis du 28 novembre au 5 décembre 1992.

Les travaux effectués pendant la mission (annexe 1) ont eu lieu à l'intérieur d'un réseau composé:

- d'un "trajet en papillon" décrit par le navire américain Wecoma, présent sur la zone du 14 novembre au 3 décembre 1992;
- de 4 mouillages équipés de profileurs de courants (PCM) de l'Université du Washington (USA);
- d'un mouillage équipé d'un ADCP des universités d'Hiroshima et Kyushu (Japon);
- d'une bouée ATLAS équipée d'une chaîne à thermistances et de capteurs de conductivité;
- de la bouée météorologique IMET (Improved Meteorological instrumentation) mise en place par "Woods Hole Oceanographic Institution".

Les 2 points fixes, qui se sont déroulés à l'intérieur du "papillon", ont été organisés de la même manière:

- mesure en continu des courants de 20 m à 300-400 m grâce à un profileur acoustique à effet Doppler (ADCP) tracté;
- mesure en continu des paramètres météorologiques (températures air sec et air humide, rayonnement solaire incident, vitesse et direction du vent, pluie);

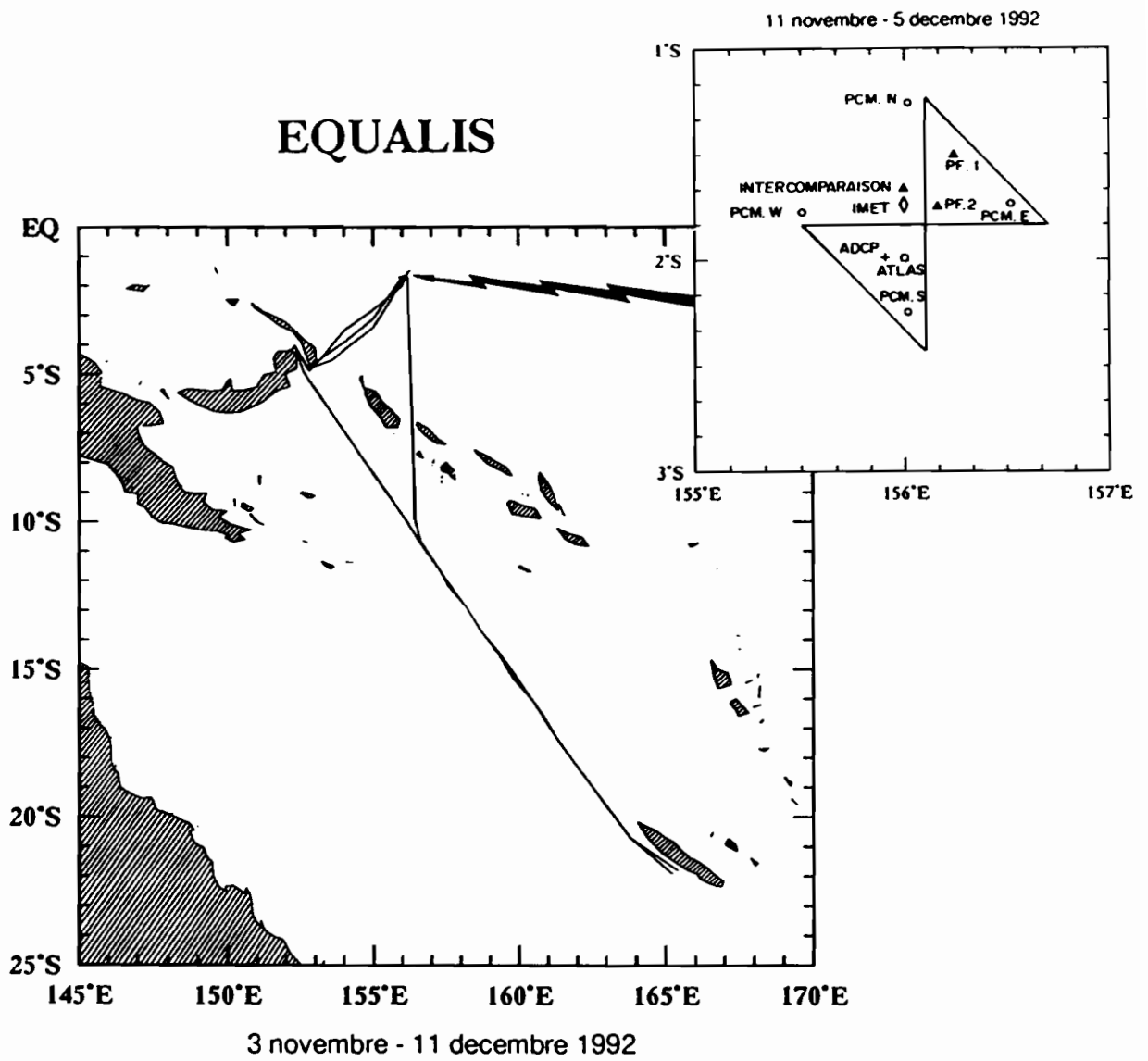


Fig. 1: plan de la campagne et réseau COARE-POI  
*cruise track and COARE-POI array*

- mesure en continu de la température et de la salinité de surface grâce à un thermosalinomètre SBE21;
- observations météorologiques par les officiers du bord, toutes les 6 heures et à chaque trait de sonde;
- 11 traits de sonde-rosette par jour:

<i>heure TU</i>	<i>heure locale</i>	<i>opération</i>
1h00	11h00	2 sondes-rosettes consécutives à 500 m
4h00	14h00	1 sonde-rosette à 500 m
7h00	17h00	2 sondes-rosettes consécutives à 1000 m puis 500 m
10h00	20h00	1 sonde-rosette à 500 m
13h00	23h00	1 sonde-rosette à 500 m
16h00	2h00	1 sonde-rosette à 500 m
19h00	5h00	2 sondes-rosettes consécutives à 100 m puis 500 m
22h00	8h00	1 sonde-rosette à 500 m.

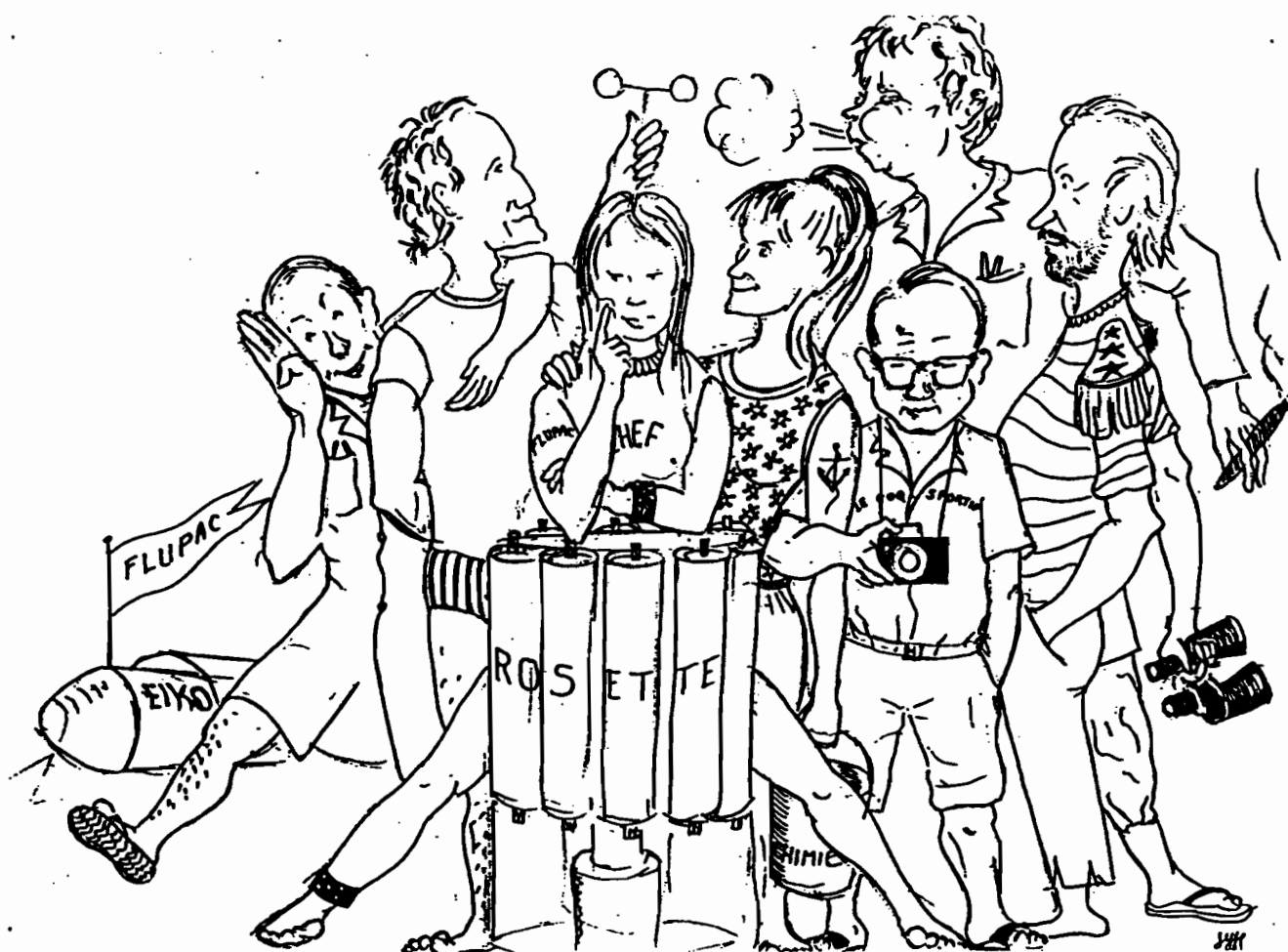
Notons que cette campagne ne comporte pas, de façon mystérieuse, de numéro de station comprenant un 6 (station 6 exceptée). Certains diagnostiquent un caprice informatique...

La comparaison entre les mesures météorologiques du Franklin et de l'Alis a eu lieu du 27 novembre 10h25 TU au 28 novembre 3h00 TU à proximité de la bouée météorologique IMET (1° 45.27S, 155° 59.73E). Il s'agissait pour les deux navires de suivre des routes parallèles, vent debout, à vitesse réduite, le Franklin se trouvant à un mille au sud de l'Alis. Quatre radiales de 3 à 4 heures ont été faites, le point de départ étant situé à chaque fois à 1° 40S, 156° 00E.

<i>n° radiale</i>	<i>cap (degrés)</i>	<i>vitesse (noeuds)</i>	<i>dates et heures TU</i>	
			<i>début</i>	<i>fin</i>
1	270	3	27/11/92 10h25	27/11/92 14h10
2	240	3	27/11/92 15h50	27/11/92 19h00
3	240	3	27/11/92 19h55	27/11/92 23h00
4	240	3	28/11/92 0h00	28/11/92 0h10
	280	3	28/11/92 0h10	28/11/92 3h00

Les navires américain Moana Wave et japonais Hakuho Maru se sont joints à l'expérience le 27 novembre à 14h00 TU. Ils étaient situés respectivement à deux et trois milles au sud de l'Alis.

## 2.2. Personnel embarqué



Sylvain Bonnet	technicien	sels nutritifs, chlorophylle	ORSTOM Nouméa
Arata Kaneko	chercheur	ADCP	Université d'Hiroshima, Japon
Hervé Oiry	ingénieur	informatique	ORSTOM Nouméa
Jean-Yves Panché	technicien	électronique	ORSTOM Nouméa
Marie-Hélène Radenac *	chercheur	CTD, météorologie	ORSTOM Nouméa
Martine Rodier	chercheur	sels nutritifs, chlorophylle	ORSTOM Nouméa

\* chef de mission

## 3. BATHYSONDE

Les profils verticaux de température et salinité ont été réalisés grâce à une sonde CTD Sea-Bird (SBE 9-02) équipée d'un système TC-DUCT pour réduire les pics de salinité. Les logiciels Sea-Bird version 3.5A (Sea-Bird, 1991) ont été utilisés pour l'acquisition qui a été faite uniquement à la

descente. Les données, dont la fréquence maximale d'acquisition de 24 cycles par seconde a été conservée, ont été directement enregistrées sur le disque dur d'un PC 486 DATAMINI (fichiers EQUAxxx.DAT, xxx étant le numéro de station). Ces données ont ensuite été moyennées (centrées sur les valeurs de pression paires) tous les 2 dbar après élimination des valeurs correspondant à des vitesses de descente inférieures à 0.25 m.s<sup>-1</sup> (fichiers EQUAxxx.AVG).

Les capteurs utilisés étaient le modèle "SBE 3" pour la température, "SBE 4" pour la conductivité et "Paroscientific digiquartz 410K.105" (10000 psia) pour la pression, dont les précisions théoriques sont respectivement 4.10<sup>-3</sup> °C par an, 3.10<sup>-4</sup> S.m<sup>-1</sup> par an et 0.02% "Full Scale". Les capteurs de température et conductivité ont été étalonnés chez Sea-Bird avant la campagne (31/7/92) et au retour de campagne (14/1/93). Au cours de la campagne, un décalage de 1 à 1.5 dbar entre la pression donnée par la sonde en surface et la pression réelle a été observé. Le capteur de pression a donc aussi été renvoyé chez Sea-Bird après la campagne. La correction à appliquer dépend de la pression et est la suivante:

$$P_{\text{corrigée}} = 1.00037 * P_{\text{ctd}} - 1.644$$

Les fichiers EQUAxxx.AVG ont donc été corrigés en utilisant cette relation.

Deux fois par jour, des prélèvements bouteille ont été effectués à 1000 dbar et leur salinité mesurée à l'aide d'un salinomètre Portasal/Guideline modèle 8410 (précision estimée à 2 à 3 10<sup>-3</sup> pour la salinité). Ces analyses ont été faites 2 semaines à 1 mois après le prélèvement à bord du N.O. Le Noroît. Les moyennes et écarts type de la différence de salinité entre les bouteilles et la sonde ont été calculés pour chaque jeu de coefficients (avant et après la campagne):

	$S_{\text{bouteille}} - S_{\text{ctd}}$	
	<i>moyenne</i>	<i>écart type</i>
"pré étalonnage"	0.0102	0.0064
"post étalonnage"	0.0058	0.0058

Notons que malgré l'utilisation des coefficients de post étalonnage pour l'ensemble des stations, un biais constant subsiste tout au long de la campagne (figure 2.a.). Les données présentées n'ont pas été corrigées de cette valeur.

Les moyennes des différences entre les températures sonde en utilisant les coefficients de pré et post étalonnage sont de l'ordre de 0.03 °C pour T > 25 °C et .0006 °C pour T < 5 °C. Cela reflète parfaitement la courbe d'étalonnage fournie par Sea-Bird (figure 2.b.). Les coefficients de post étalonnage ont donc été utilisés pour l'ensemble des stations.

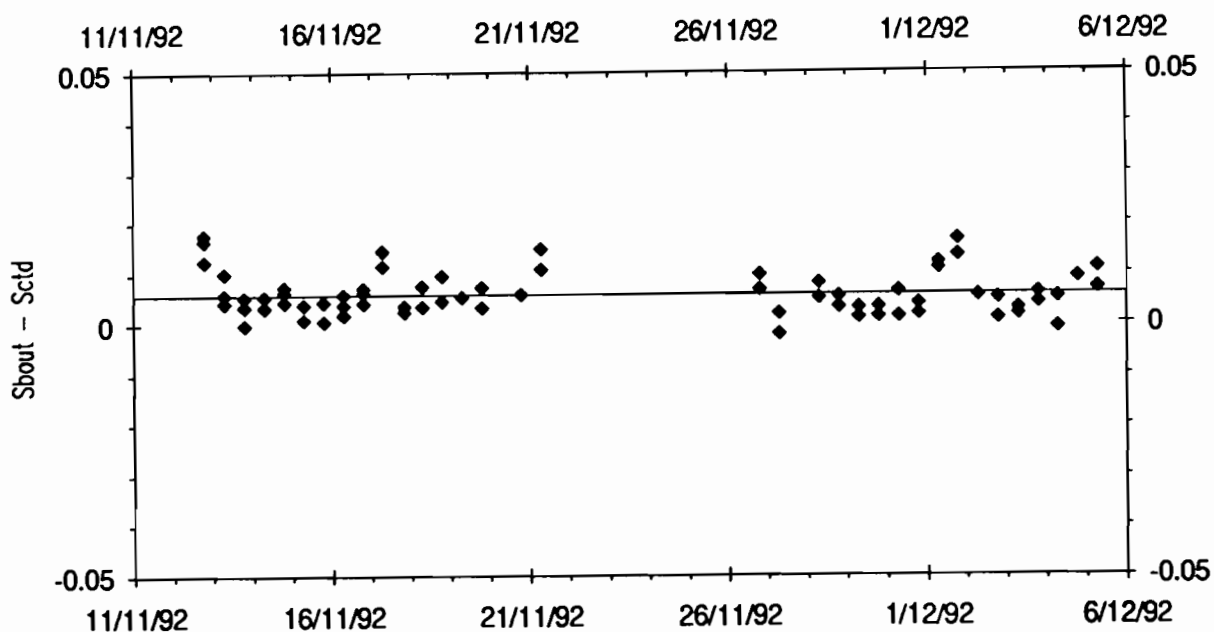


Fig. 2.a: écart de salinité entre les mesures bouteille (Sbout) et sonde (Sctd) en utilisant les coefficients de "post étalonnage"  
*differences between bottle (Sbout) and CTD (Sctd) salinities using post cruise calibration coefficients*

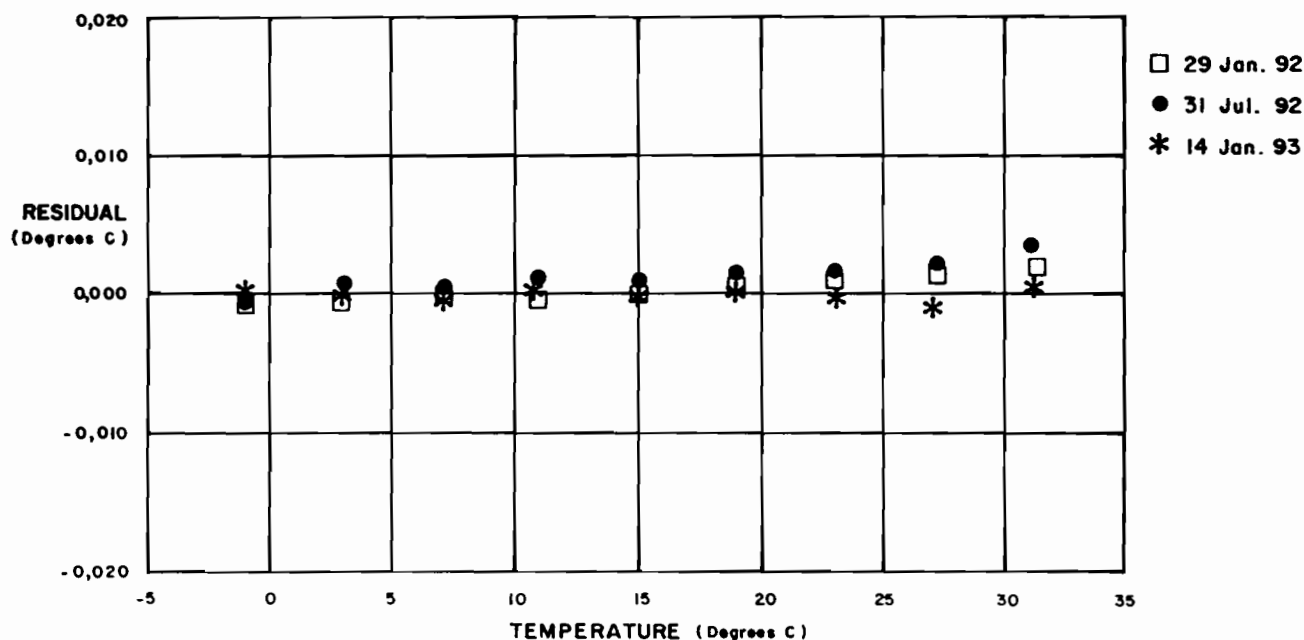


Fig. 2.b: graphique d'étalonnage du capteur de température de la sonde fourni par Sea-Bird  
 residual = température mesurée par l'instrument - température du bain  
 31 juillet 1992: "pré étalonnage"; 14 janvier 1993: "post étalonnage"  
*CTD temperature sensor calibration diagram from Sea-Bird*  
 residual = instrument temperature - bath temperature  
 31 July 1992: pre cruise calibration; 14 January 1993: post cruise calibration

Les profils de température et salinité et les diagrammes T/S sont présentés en annexes 2 et 3 et l'évolution temporelle de ces paramètres en point fixe en annexe 4. Ces mesures sont sous la responsabilité de Marie-Hélène Radenac.

#### 4. COURANTOMÉTRIE

Des mesures de courants ont été obtenues aux points fixes du 11 au 21 novembre 1992 puis du 28 novembre au 5 décembre 1992 à l'aide d'un profileur de courant acoustique à effet Doppler (ADCP), modèle RDSC-0150 de RD Instruments) fonctionnant à 150 KHz. L'ADCP installé sur un support était suspendu à l'aide d'un câble à 6 flotteurs de 30 cm de diamètre reliés en série (figure 3). Lorsque l'Alis n'était pas ancré (du 11 au 14 novembre 1992: stations 1 à 21), le navire évoluait lentement autour de la station à une vitesse d'environ 3 noeuds. L'immersion de l'ADCP était de 10 m du début du premier point fixe au 18 novembre, 18h45 TU (stations 1 à 89), puis 20 m à partir du 19 novembre, 8h15 TU. Généralement, 4 des 6 flotteurs étaient immergés et évitaient au support de l'ADCP de "pilonner" en réponse aux vagues de surface. Pendant les observations, l'ADCP était relié à un microordinateur (SHARP AX386N) à bord de l'Alis par l'intermédiaire d'une interface RS232 permettant le transfert des données ADCP en temps réel vers l'ordinateur.

Les composantes méridienne, zonale et verticale du courant sont mesurées relativement au corps de l'ADCP. Pendant cette expérience, le fond était situé à une profondeur bien supérieure au "bottom tracking range" de l'ADCP de l'ordre de 500 m. La position du navire obtenue par GPS (Global Positioning System) a donc été utilisée pour transformer la vitesse relative en vitesse absolue. La vitesse de dérive de l'Alis pendant la période au mouillage était plus faible que  $5 \text{ cm.s}^{-1}$ , ce qui est de l'ordre de la précision de la mesure GPS. Pendant cette période, les vitesses mesurées par l'ADCP ont donc été considérées comme des vitesses absolues. Pendant la période de route lente, l'Alis suivait, à vitesse constante, une trajectoire proche du point de station. Dans ces conditions, où la trajectoire du navire n'était pas rectiligne, la vitesse du navire était mal estimée, le GPS nécessitant une moyenne sur 20 mn pour atteindre la précision de  $5 \text{ cm.s}^{-1}$  dans la détermination des vitesses. Pendant cette période, la vitesse absolue a été estimée en considérant que le *bin* le plus profond (380 m) était situé dans une couche immobile. Cette hypothèse est raisonnable puisque les courants majeurs sont situés dans les 300 premiers mètres.

Les données ADCP ont été enregistrées toutes les minutes avec une longueur de *bin* de 8 m. L'enregistrement a souvent été interrompu à cause d'interférences électriques dans l'interface RS232. Le nombre total de profils est de l'ordre de 20000, représentant environ 150 Mbytes de données. Les profils de vitesse absolue présentés en annexe 3 correspondent à la moyenne sur 10 minutes des profils instantanés, s'ils existent, au début de la descente de la sonde. Leur évolution temporelle en point fixe est exposée en annexe 4. Ces données sont sous la responsabilité d'Arata Kaneko.

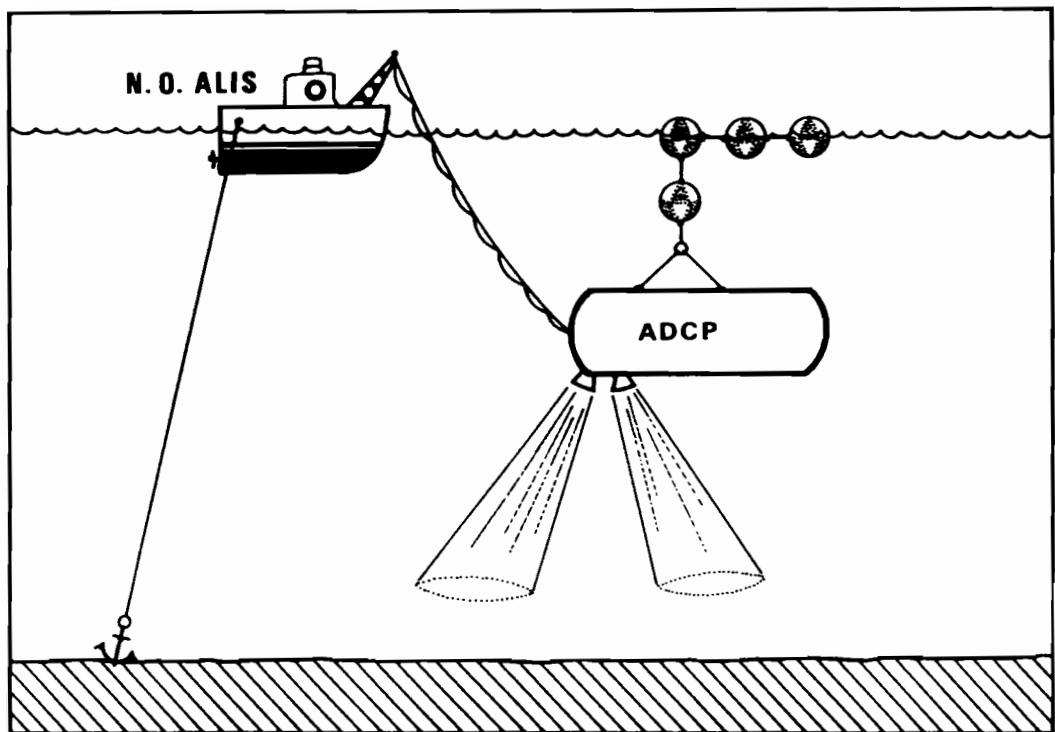


Fig. 3: schéma du système ADCP (adapté de Kaneko *et al.*, 1993)  
*sketch of the ADCP system (adapted from Kaneko et al., 1993)*



## 5. SELS NUTRITIFS ET PIGMENTS CHLOROPHYLLIENS

Les prélèvements ont été effectués à l'aide de 12 bouteilles de 1.2 litres montées sur une rosette General Oceanics couplée à la bathysonde. Tous les prélèvements ont eu lieu à la remontée de l'ensemble bathysonde-rosette.

### 5.1. Sels nutritifs

Les prélèvements ont été effectués à toutes les stations sur 12 niveaux entre 0 et 200 m aux stations de 2h00, 8h00, 14h00, 20h00 et 23h00 (respectivement 16h00, 22h00, 4h00, 10h00 et 13h00 en TU) ou sur 24 niveaux correspondant à l'envoi successif de deux rosettes aux stations de 5h00, 11h00 et 17h00 (respectivement 19h00, 1h00 et 7h00 en TU). A chaque station, les niveaux de prélèvement ont été choisis au vu du diagramme T/S donné par la sonde, afin que la nitracine  $N-NO_3 > 0.1\mu M$  soit échantillonnée au mieux.

Les échantillons sont prélevés dans des fioles en polyéthylène de 50 ml et immédiatement analysés à bord à l'aide d'un Autoanalyseur II Technicon. Nitrate ( $N-NO_3$ ), nitrite ( $N-NO_2$ ), et orthophosphate ( $P-PO_4^{3-}$ ) ont été mesurés à chaque station et à tous les niveaux de prélèvement. Le silicate ( $Si-SiO_4^{2-}$ ) a été analysé uniquement aux stations de 5h00, 11h00, 17h00 et 23h00 (respectivement 19h00, 1h00, 7h00 et 13h00 TU).

Les protocoles analytiques utilisés lors de l'analyse des sels nutritifs sont adaptés de ceux décrits dans Strickland and Parsons (1972). Pour les concentrations de nitrate inférieures à  $1.5 \mu M$  et pour le nitrite, la méthode d'analyse "haute sensibilité" décrite par Oudot et Montel (1988) a été utilisée. Dans le cas du phosphate et du silicate, la ligne de base a été obtenue avec de l'eau de mer synthétique de salinité 35, préparée avec de l'eau bi-distillée et du NaCl haute pureté. Pour le nitrate et le nitrite, de l'eau de mer prélevée en subsurface à  $15^\circ S$  ( $156^\circ E$ ) s'est révélée plus pauvre que l'eau de mer synthétique et a été utilisée par la suite comme référence. Les étalons sont préparés quotidiennement à partir de solutions mères conservées au réfrigérateur et diluées dans l'eau de référence.

La limite de détection approximative pour les différents sels nutritifs ainsi que le coefficient de variation pour des répliquats effectués à bord (6 répliquats prélevés sur une même bouteille, station 232) sont donnés dans le tableau ci après :

<i>sel nutritif</i>	<i>limite de détection (<math>\mu\text{M}</math>)</i>	<i>coefficient de variation (%)</i>
N-NO <sub>3</sub> <sup>-</sup> ≤ 1.5 $\mu\text{M}$ N-NO <sub>3</sub> <sup>-</sup> > 1.5 $\mu\text{M}$	0.005 0.03	0.30% pour 1.500 $\mu\text{M}$ 1.10% pour 3.75 $\mu\text{M}$ 1.21% pour 8.55 $\mu\text{M}$
N-NO <sub>2</sub> <sup>-</sup>	0.005	16.5% pour 0.015 $\mu\text{M}$ 3.76% pour 0.095 $\mu\text{M}$
P-PO <sub>4</sub> <sup>3-</sup>	0.008	0.30% pour 0.360 $\mu\text{M}$ 1.12% pour 0.640 $\mu\text{M}$
Si-SiO <sub>4</sub> <sup>2-</sup>	0.1	0.56% pour 2.0 $\mu\text{M}$ 0.25% pour 2.9 $\mu\text{M}$

Les analyses sont sous la responsabilité de Martine Rodier. Les données sont présentées en annexe 3 et leur évolution temporelle en annexe 4.

## 5.2. Pigments chlorophylliens

Des échantillons de 100 ml pour l'analyse de la chlorophylle *a* totale ont été prélevés sur filtres en fibre de verre Whatman GF/F ( $\emptyset$  25 mm), pratiquement à chaque station et à tous les niveaux de 0 à 160-200 m. Les filtres ont été ensuite stockés immédiatement au congélateur pour analyse ultérieure au laboratoire.

La chlorophylle et la phéophytine ont été analysées après extraction au méthanol 95% (15 à 20 minutes) à l'aide d'un fluorimètre Turner étalonné avec de la chlorophylle *a* pure Sigma. L'analyse a été effectuée selon le protocole décrit par Le Bouteiller *et al.* (1992). Des tests effectués lors de missions antérieures (missions PROPPAC) ont montré que le coefficient de variations pour 10 réplicats variait entre 2 et 5% et que la conservation des échantillons à -20 °C n'engendrait pas de perte de concentration supérieure à 10%.

Les résultats présentés en annexe 3 montrent que les mesures sont le plus souvent bonnes et que la sensibilité de la méthode utilisée permet de décrire la distribution verticale de façon satisfaisante. Notons cependant que, compte tenu de quelques incidents liés à un dysfonctionnement du fluorimètre, certaines valeurs telles que celles correspondant à de forts pourcentages de phéophytine dans les couches de surface sont à prendre avec précaution. L'évolution temporelle de la chlorophylle est présentée en annexe 4. Les analyses sont sous la responsabilité de Martine Rodier et Aubert Le Bouteiller.

## 6. MESURES MÉTÉOROLOGIQUES ET THERMOSALINOMÈTRE

### 6.1. Observations par les officiers du bord

Toutes les 3 heures, aux heures des stations bathysonde-rosette, les officiers du bord ont effectué manuellement des relevés météorologiques à l'aide de la station POMAR, vérifiée au départ de la campagne par les services de la Météorologie Nationale. Ceux-ci comprennent: la direction et la vitesse du vent apparent et du vent réel, la température de l'air sec et de l'air humide, la pression atmosphérique et la température de surface de l'eau.

### 6.2. Station météorologique et thermosalinomètre

Les mesures météorologiques (température air sec,  $\Delta T$  (température air sec - température air humide), rayonnement solaire incident, vitesse et direction du vent apparent) complétaient des observations de température et salinité de surface et de pluie, couplées au système GPS de positionnement du navire (Magnavox MX-1107 pouvant aussi servir de relai aux données du loch et du compas gyroscopique du navire) et enregistrées sur un micro-ordinateur type compatible IBM-PC. A l'origine, le logiciel d'acquisition était utilisé à l'ORSTOM pour l'acquisition automatique des mesures de température et salinité de surface à bord des navires marchands (Grelet *et al.*, 1992). Pour cette campagne, nous avons décidé d'en utiliser une version étendue, ALIS.EXE, écrite par B. Buisson, qui outre la gestion d'un plus grand nombre de capteurs, permet des calculs supplémentaires.

Températures et salinités de surface ont été mesurées par un thermosalinomètre Sea-Bird 21 étalonné le 16 septembre 1992 par le constructeur. La prise d'eau était située vers 2.6 mètres. Toutes les trois heures, un échantillon d'eau de mer a été prélevé à la sortie du thermosalinomètre pour contrôler la dérive du capteur de salinité. L'ensemble de ces prélèvements a été analysé au retour de la campagne, du 8 au 11 décembre 1992, sur le salinomètre GUILDLINE à bord du N.O. LE NOROÏT. Le thermosalinomètre était interrogé toutes les 15 secondes et la médiane de la température et de la salinité de surface calculée et enregistrée toutes les 15 minutes. Le capteur de température a subi avant et après la campagne chez Sea-Bird, un étalonnage qui ne permet pas de déceler de changements majeurs dans la mesure de la température. La cellule de conductivité ayant été endommagée après la campagne, seul l'étalonnage effectué avant la campagne est disponible. La comparaison entre les mesures de salinité des échantillons bouteille et celles du thermosalinomètre montre un biais important de 0.034 (figure 4). Ce biais a été confirmé par les mesures réalisées à bord du N.O. Le Noroît après cette campagne à l'aide du même thermosalinomètre (C. Hénin, communication personnelle). Les mesures présentées ont été corrigées de cette erreur.

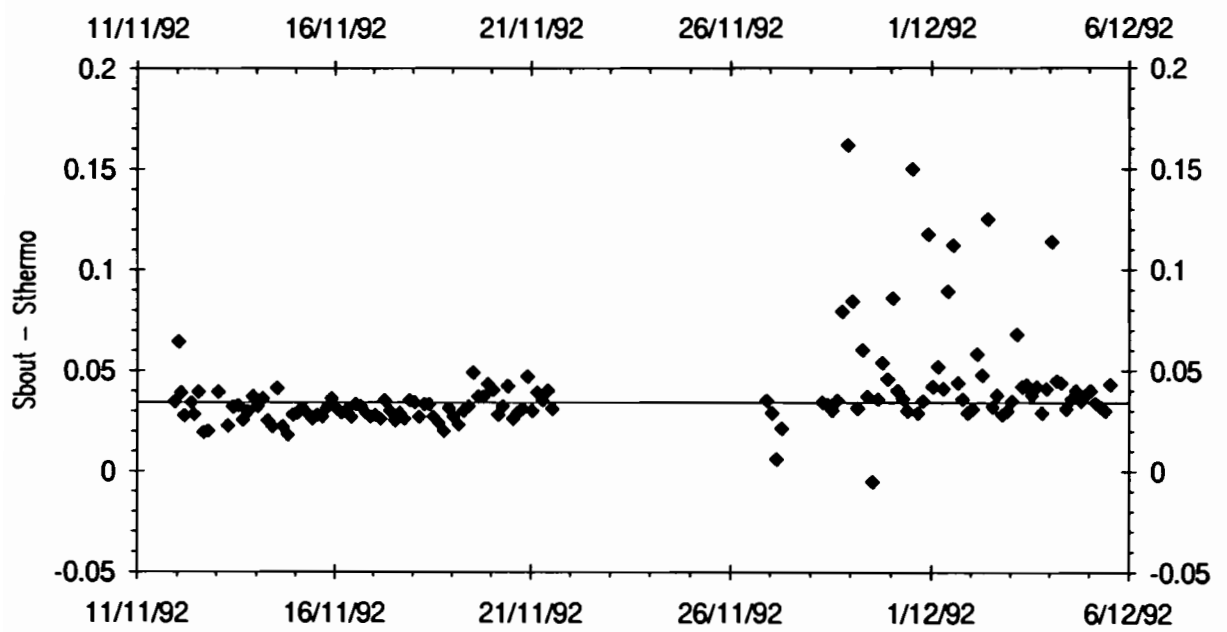


Fig. 4: écart de salinité entre les mesures bouteille (Sbout) et thermosalinomètre (Sthermo)  
*differences between bottle (Sbout) and thermosalinograph (Sthermo) salinities*

La quantité de pluie a été mesurée par un pluviomètre optique STI (ORG-105) monté au-dessus de la passerelle à 6 m de hauteur. Ce capteur était fourni par le Dr. O. Thiele du "Tropical Rainfall Measuring Mission Office". Le pluviomètre optique était interrogé toutes les secondes et la hauteur d'eau intégrée (mm) et l'écart type ( $\text{mm.h}^{-1}$ ) des mesures individuelles calculés et enregistrés toutes les 15 minutes. A la date de parution de ce rapport, les résultats de l'étalonnage post-campagne du NASA/GSFC Calibration Laboratory ne nous sont pas parvenus.

Les capteurs météorologiques ont été installés par le Dr. F. Bradley, du CSIRO de Canberra. La pièce maîtresse de cet ensemble était un enregistreur de données "Datataker 50" recevant les signaux:

- d'un psychromètre fabriqué au laboratoire du "Centre for Environmental Mechanics" du CSIRO, Canberra;
- d'un pyranomètre LICOR 2003S;
- d'un anémomètre SYNCHROTAC 710-1960;
- d'une girouette SYNCHROTAC 710-2900.

Les capteurs étaient situés en tête de mât. L'exposition au vent de l'anémomètre n'étant pas idéale au mouillage, son installation a été modifiée le 16 novembre. L'enregistreur de données était interrogé toutes les 10 secondes et les médiane, moyenne et écart type des paramètres suivants étaient calculés et enregistrés toutes les 15 minutes:

- température air sec ( $^{\circ}\text{C}$ );
- $\Delta T$  ( $^{\circ}\text{C}$ );
- rayonnement solaire incident ( $\text{W.m}^{-2}$ );
- vitesse du vent apparent ( $\text{m.s}^{-1}$ );
- direction du vent apparent (degré).

A chaque interrogation de l'enregistreur de données, la vitesse et la direction du vent par rapport à la route surface du navire ont été calculées par somme vectorielle d'après les informations instantanées du loch et du compas gyroscopique, ainsi que les vitesse et direction absolues du vent d'après la route fond donnée par le navigateur satellite. Les médianes des modules ( $\text{m.s}^{-1}$ ) et direction (degré) des vents "surface" et absolu étaient ensuite calculées et enregistrées toutes les 15 minutes. Au mouillage, le loch ne donnant pas de vitesse négative (l'Alis était mouillé par l'arrière) et la route et la vitesse fond traduisant les lents mouvements d'évitage du navire, ces calculs se sont révélés erronés et n'ont pas été conservés. Il en est de même, lorsque le navire est en dérive. Aux points fixes, les mesures de vent absolu présentées sont les suivantes:

- le module absolu est le module du vent apparent;
- la direction absolue est égale à la somme du cap du navire et de la direction du vent apparent.

Ces données ont été comparées aux mesures de vitesse et direction faites par les officiers du bord. Les vitesse et direction apparentes présentent respectivement une différence moyenne de l'ordre

de 1 noeud et inférieure à 10 degrés, et la direction absolue une différence moyenne supérieure à 10 degrés. Dans tous les cas, l'écart type est très largement supérieur à la moyenne. Nous espérons une meilleure validation après comparaison avec les données de la bouée IMET. Pendant l'intercomparaison, les données présentées sont le résultat de sommes vectorielles.

La vérification du décalage entre les deux mesures de température du psychromètre (température air sec et air humide) a été effectuée trois fois au cours de la campagne. Cela consistait à mesurer la différence de température entre les thermistances, les deux thermomètres étant secs. Cette expérience a été faite de préférence à l'abri du soleil. Le résultat montre un  $\Delta T$  moyen de 0.11 °C et un écart type inférieur à 0.01 °C. Les données présentées ont subi la correction de 0.11 °C.

Les mesures météorologiques aux points fixes et pendant l'intercomparaison sont présentées en annexe 5. Ces données sont sous la responsabilité de Marie-Hélène Radenac.

## 7. BOUÉES DÉRIVANTES

Trois bouées dérivantes équipées d'un seul capteur de température en surface (type Niiler du SIO La Jolla) ont été larguées au cours de la campagne, en début et en fin de premier point fixe et au début du second point fixe:

<i>n° bouée</i> <i>PTT/OMM</i>	<i>mise à l'eau</i>		<i>début de l'acquisition</i>	
	<i>date (TU)</i>	<i>position</i>	<i>date (TU)</i>	<i>position</i>
15556/52838	11/11/92 19h55	1°29.17S, 156°14.90E	12/11/92	1°20.4S, 156°20.4E
15557/55901	21/11/92 22h40	2°30.00S, 155°34.00E	22/11/92	2°30.6S, 155°32.4E
15561/52845	26/11/92 10h53	2°30.07S, 155°34.00S	28/11/92	2°14.4S, 156°01.8E

Les trajectoires de ces bouées au cours des mois de novembre et décembre sont reportées en annexe 6. Ces données sont sous la responsabilité d'Yves du Penhoat.

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## **ANNEXE 1**

**Déroulement de la campagne**

*Cruise schedule*





Chronologie des opérations effectuées pendant la campagne Equalis. Les dates et heures sont exprimées en TU sauf indication contraire (HL = heure locale).

Jour	Date	Opérations - Remarques
J1	2/11/92	Appareillage de Nouméa vers 23h00 (HL: 3/11/92; 10h00).
J2-J7	3-8/11/92	Transit vers Rabaul (Papouasie-Nouvelle Guinée). Le 5/11/92 (J4) à 7h05 par 15°51S, 156°14.90E: prélèvement d'eau à 10 m pour les analyses de chimie.
J8	9/11/92	Arrivée à Rabaul vers 7h00 (17h00 HL). Embarquement du Prof. Arata Kaneko.
J9	10/11/92	Départ de Rabaul vers 7h00 (17h00 HL). Transit vers le point fixe 1 : 1°30S, 156°15E.
J10	11/11/92	Largage bouée Niiler à 1°30S, 156°15E. Déploiement de l'ADCP à 10 m: début acquisition à 20h39. Mise en route acquisition automatique météo. Début des traits CTD toutes les 3 heures: station 1 à 22h00.
J11	12/11/92	Stations 2 à 11. Station de 22h00 non faite à cause d'une panne du circuit hydraulique.
J12	13/11/92	Stations 12 à 21. Les 2 stations consécutives de 1h00 non faites à cause de la panne du circuit hydraulique. Début manoeuvre de mouillage du NO Alis à 22h30.
J13	14/11/92	Fin manoeuvre de mouillage à 0h15 par 1°30.46S, 156°15.06E. Stations 22 à 33.
J14	15/11/92	Stations 34 à 45.
J15-J16	16-17/11/92	Stations 47 à 80. Déplacement et surélévation de l'anémomètre (16/11/92: J15).
J17-J19	18-20/11/92	Stations 81 à 117. Panne ADCP du 18 (J17: 18h48) au 19 (J18: 8h18). Re-déploiement à 20 m.
J20	21/11/92	Stations 118 à 124 (13h01). Fin acquisition ADCP à 13h22. Départ du point fixe 1 vers 16h00. Transit vers Rabaul. Largage bouée Niiler à 2°30S, 155°34E.
J21-J24	22-25/11/92	Transit vers Rabaul. Arrivée et escale à Rabaul. J24: départ de Rabaul et route vers point fixe 2: 1°45S, 156°10E.

J25	26/11/92	Remise de pièces détachées au R/V Moana Wave pour réparation bouée IMET. Largage bouée Niiler à 2°30S, 156°34E. Stations 125 (19h14) à 128.
J26	27/11/92	Stations 129 à 133 (8h18). Départ pour intercomparaison météo avec R/V Franklin: 1°45S, 156°00E. Radiales 1, 2 et 3.
J27	28/11/92	Radiale 4 de l'intercomparaison. Fin intercomparaison. Manoeuvre de mouillage par 1°45.2S, 156°09.8E de 5h20 à 6h20. Déploiement ADCP à 20 m. Début acquisition à 6h17. Stations 134 (7h02) à 142.
J28-J33	29/11-4/12/92	Stations 143 à 225.
J34	5/12/92	Stations 227 à 233 (13h02). Rosette 232 pour répliquats de chimie (110 et 180 m) Fin acquisition ADCP à 13h15. Transit vers Nouméa.
J35-J40	6-11/12/92	Transit vers Nouméa. J36: transbordement matériel entre N.O. Le Noroit et N.O. Alis (7°20.0S, 156°21.4E). J40: arrivée Nouméa vers 0h00 (HL: 11h00).

## ANNEXE 2

### Résultats de la bathysonde

#### *CTD data*

Profils verticaux de température ( $^{\circ}\text{C}$ ), salinité et densité potentielle ( $\sigma_{\theta}$ ,  $\text{kg}\cdot\text{m}^{-3}$ ) de 0 à 1000 dbar

*Vertical profiles of temperature ( $^{\circ}\text{C}$ ), salinity and potential density ( $\sigma_{\theta}$ ,  $\text{kg}\cdot\text{m}^{-3}$ ) from 0 to 1000 dbar*

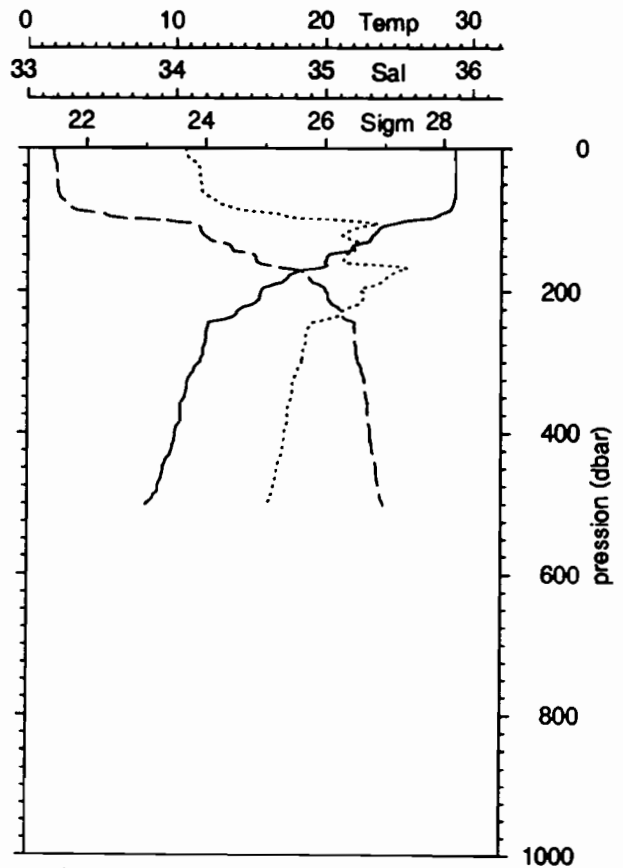
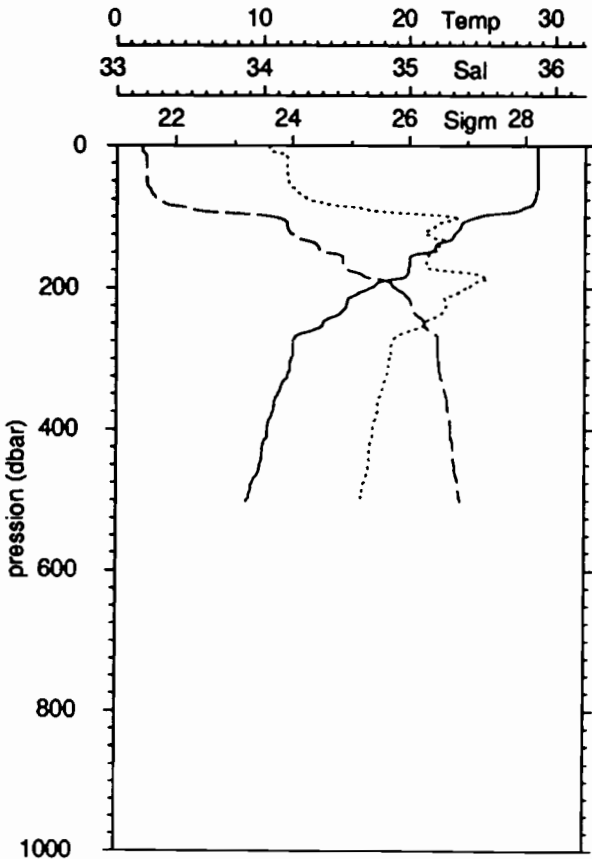
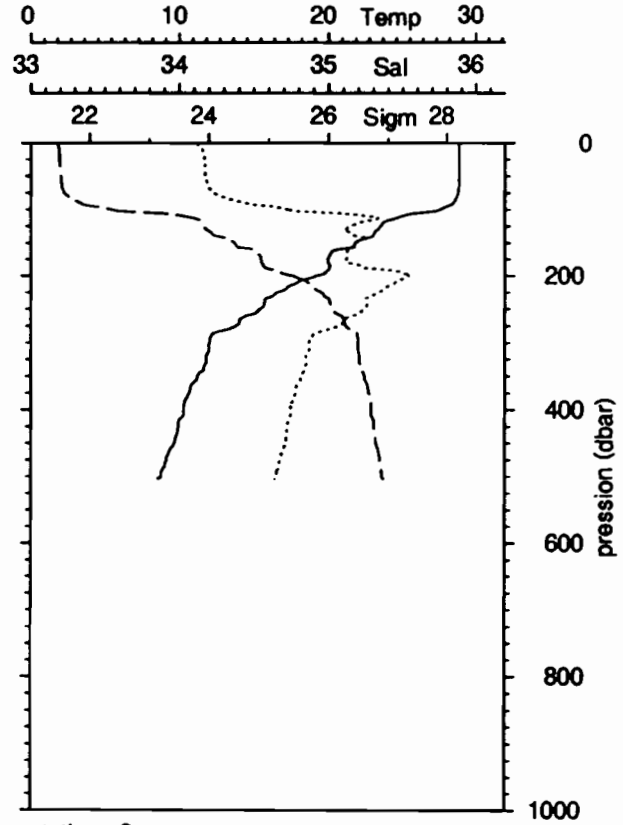
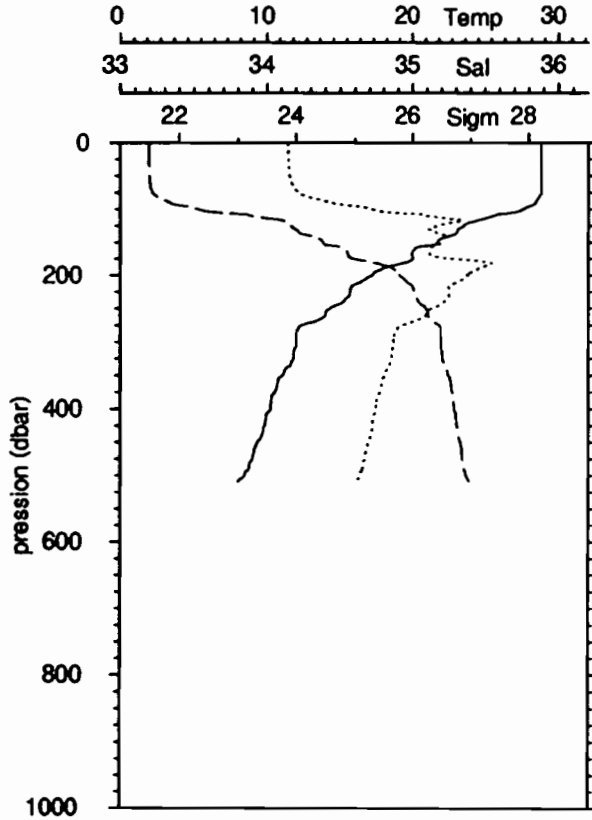


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stations 1 2

3 4

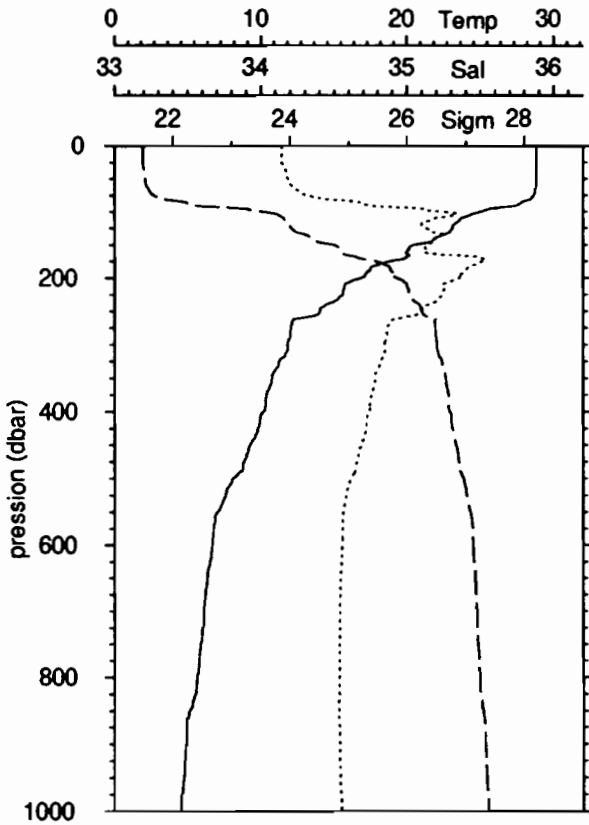
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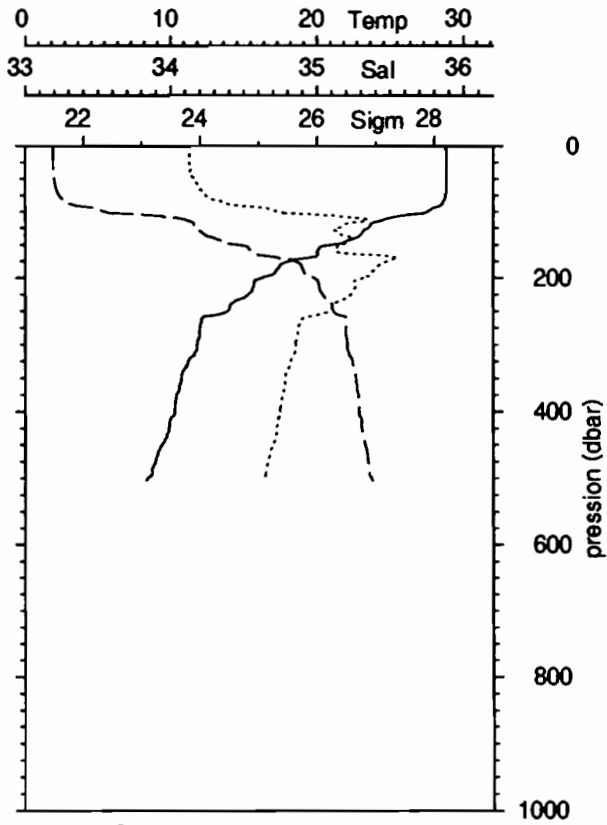
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stations 5 6  
7 8

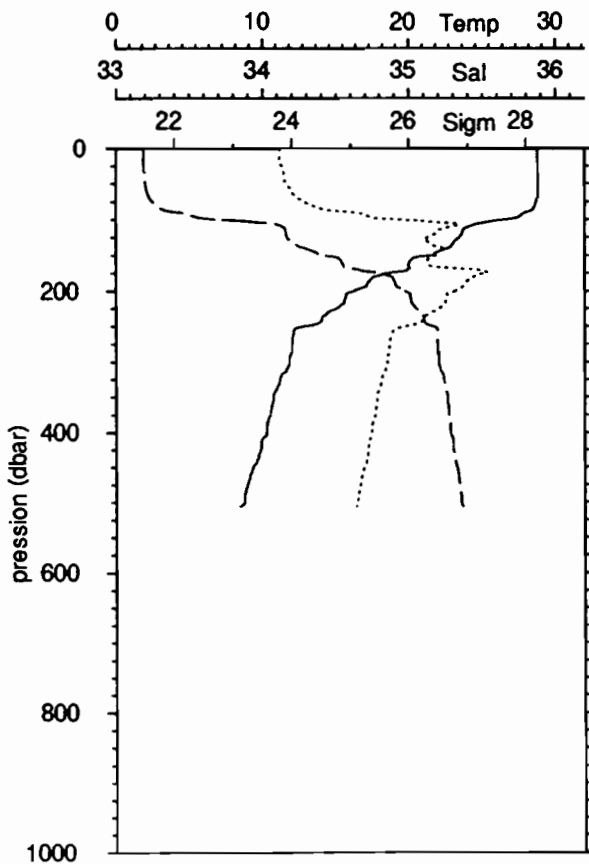
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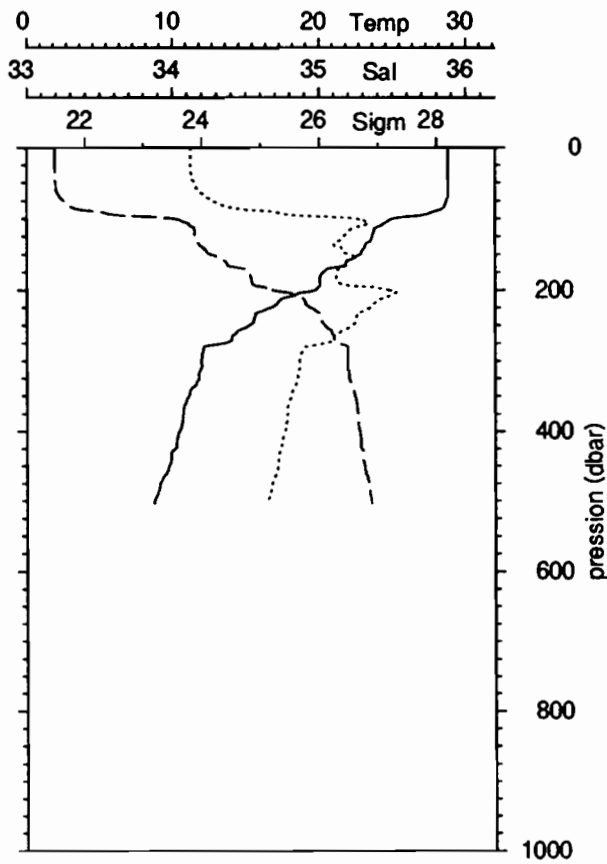
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12/11/92, 7h25 TU  
1°30 S 156°16 E



station 6  
12/11/92, 8h50 TU  
1°30 S 156°15 E



station 7  
12/11/92, 10h10 TU  
1°30 S 156°15 E

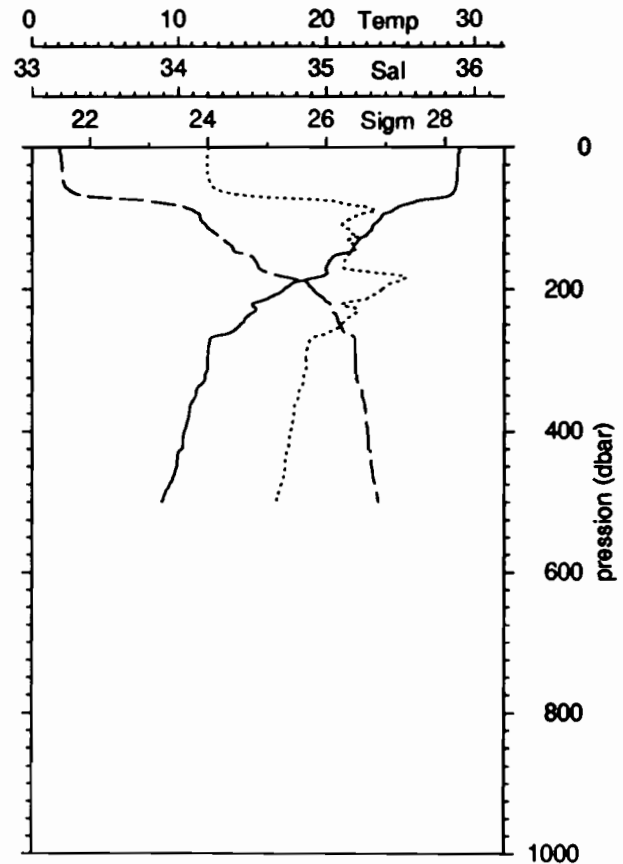
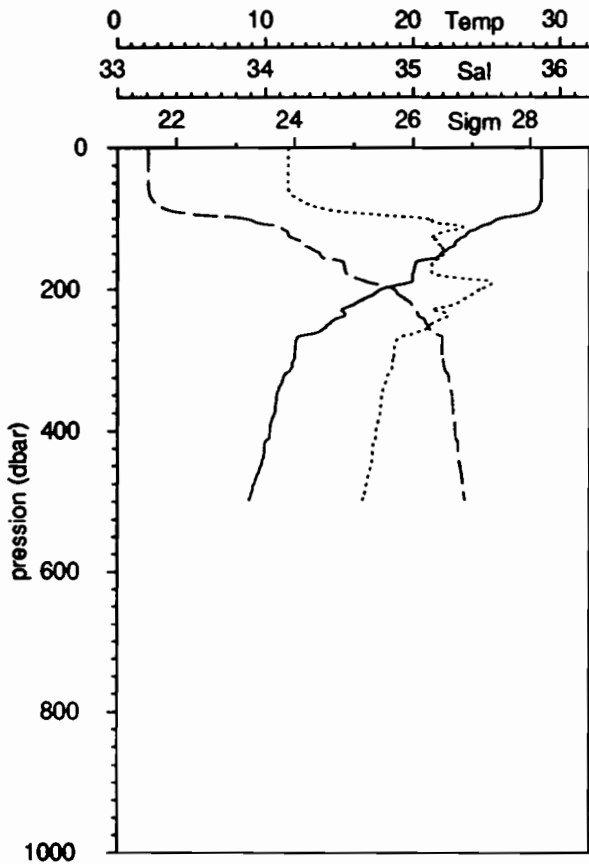
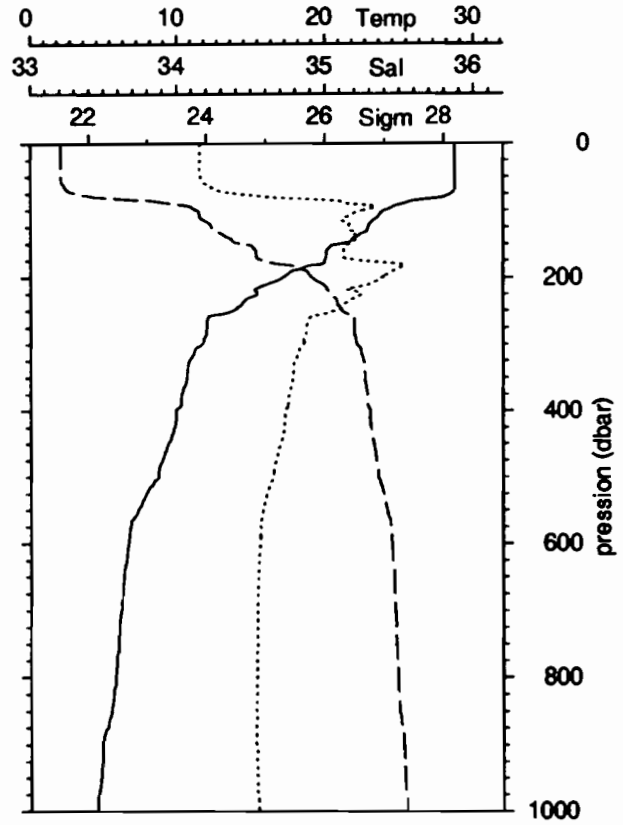
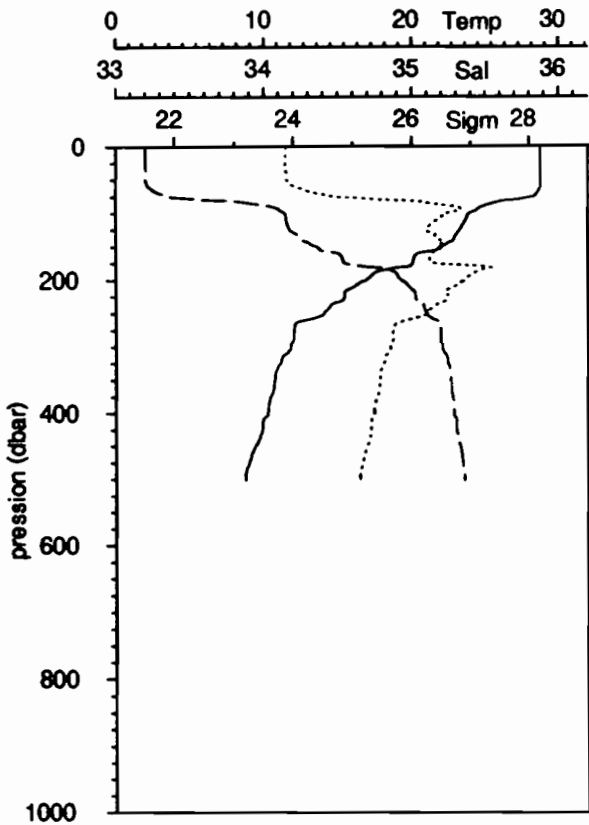


station 8  
12/11/92, 13h 4 TU  
1°30 S 156°15 E

# EQUALIS

stations 9 10  
11 12

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



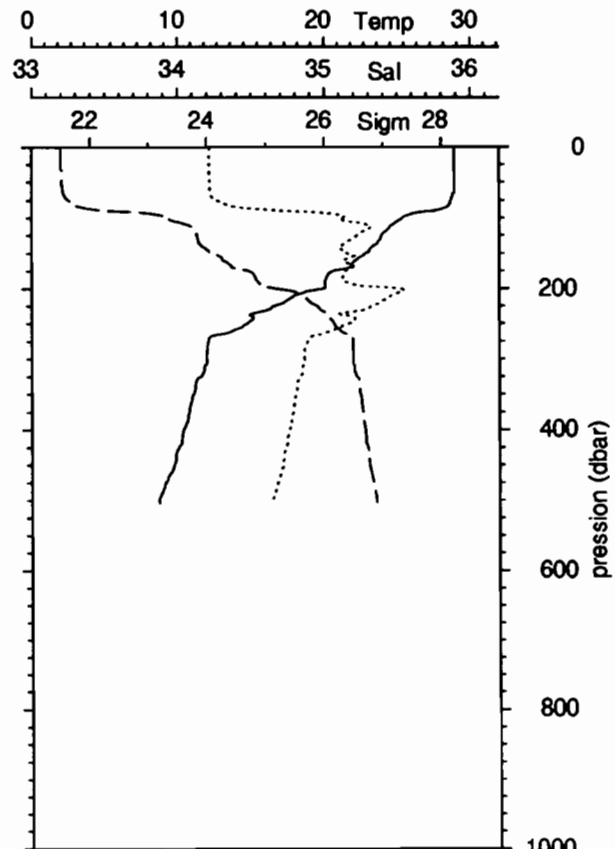
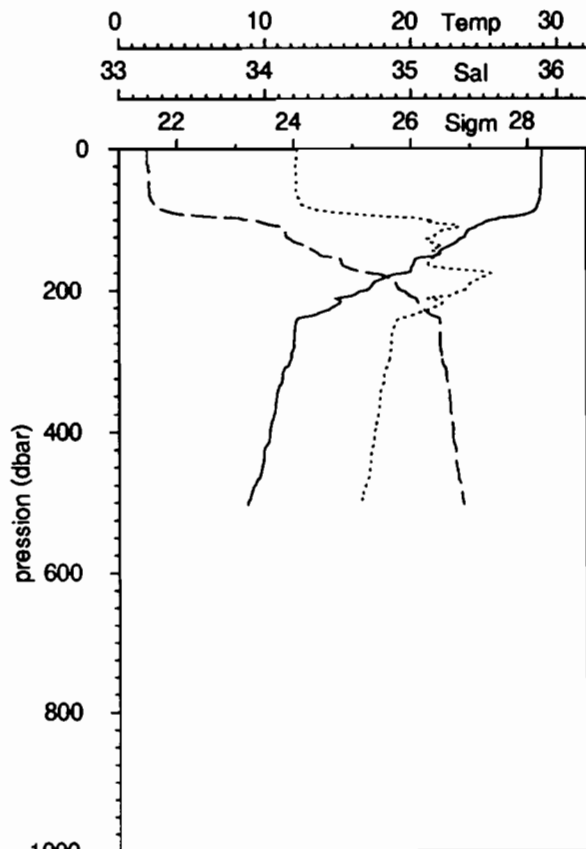
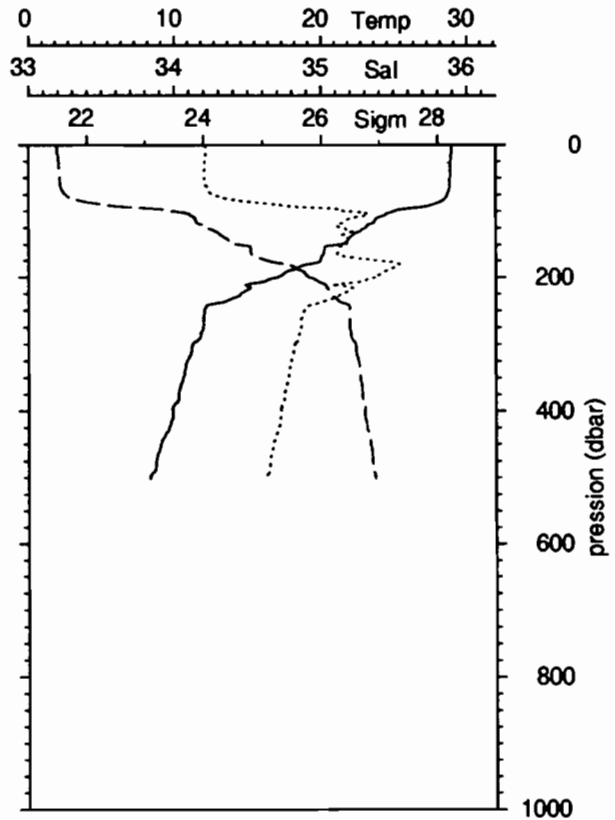
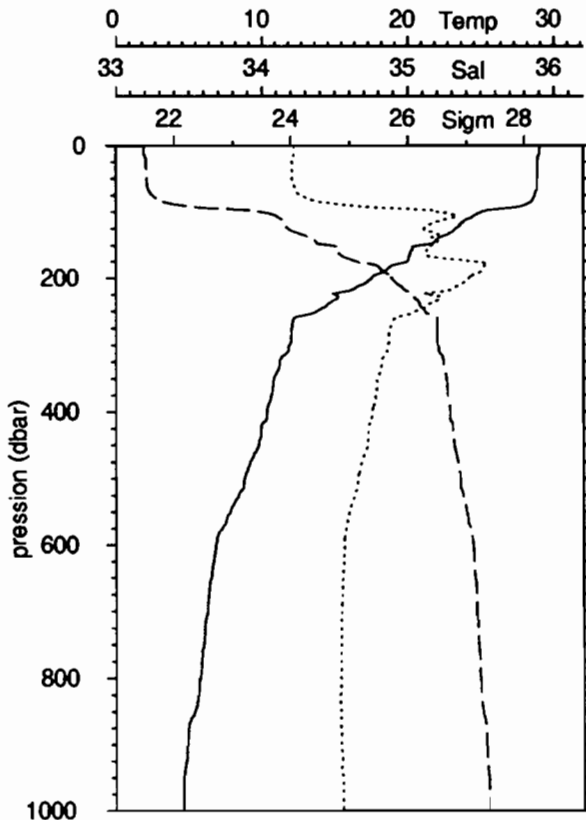


# EQUALIS

stations 13 14

15 17

— temperature: °C      ..... salinite      - - - - sigma theta: kg/m3

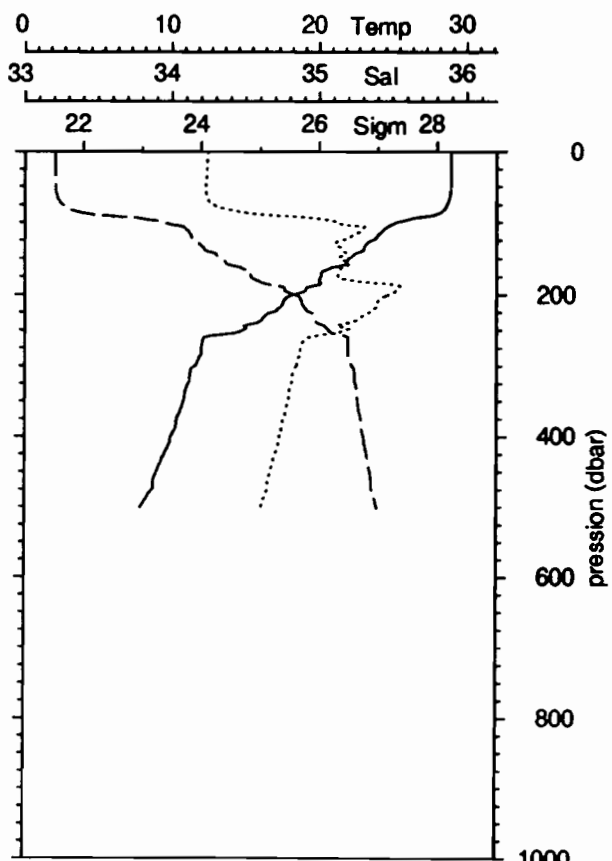
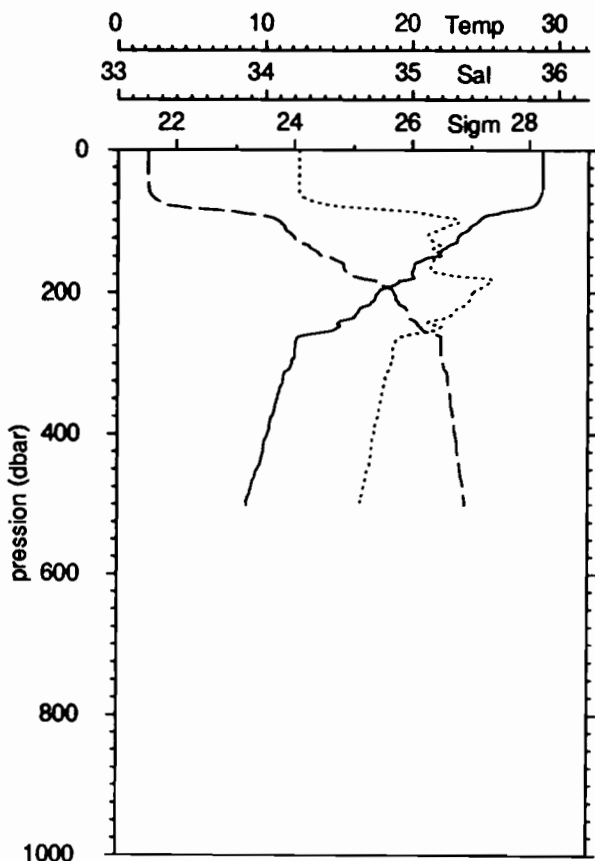
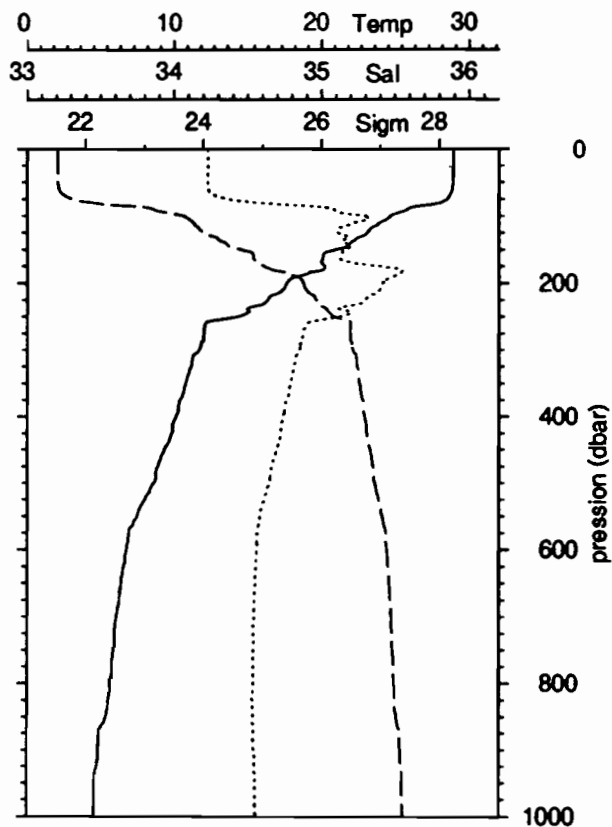
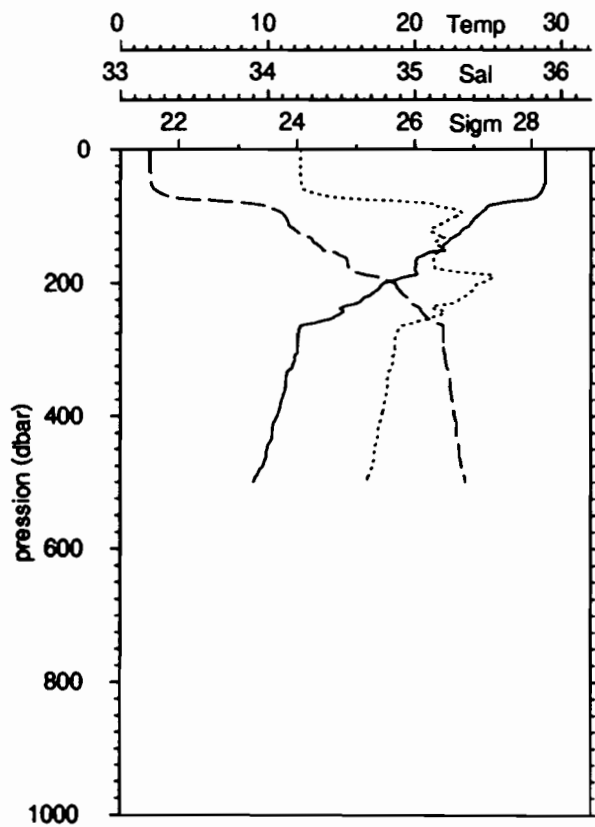


# EQUALIS

stations 18 19

20 21

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



# EQUALIS

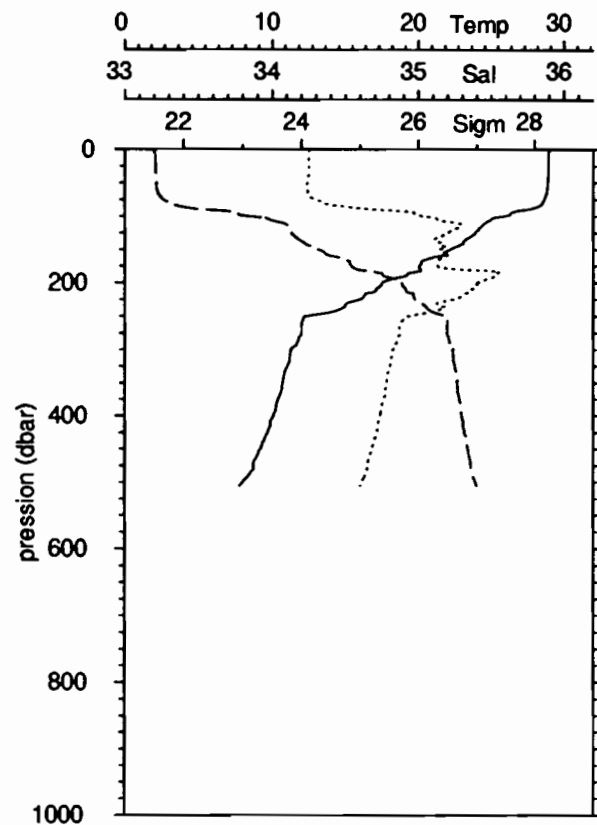
stations 22 23

24 25

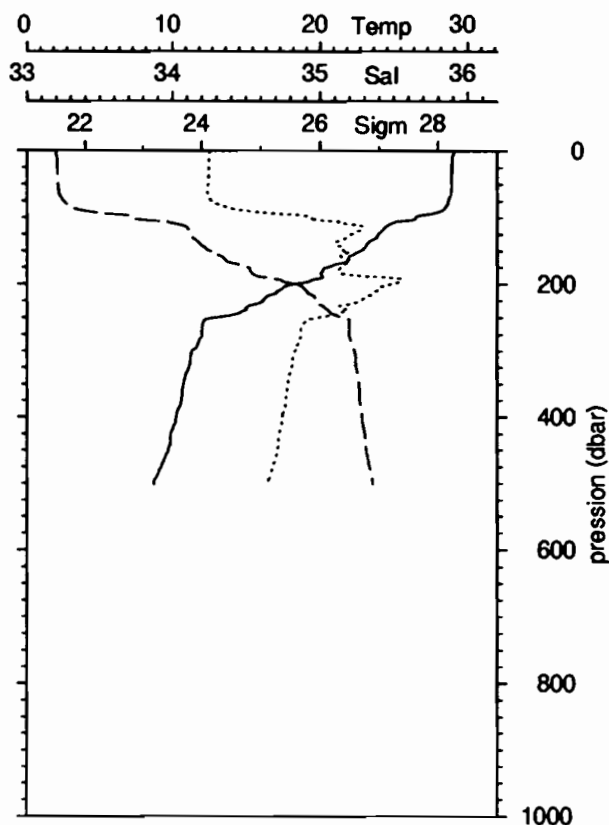
— temperature: °C

..... salinite

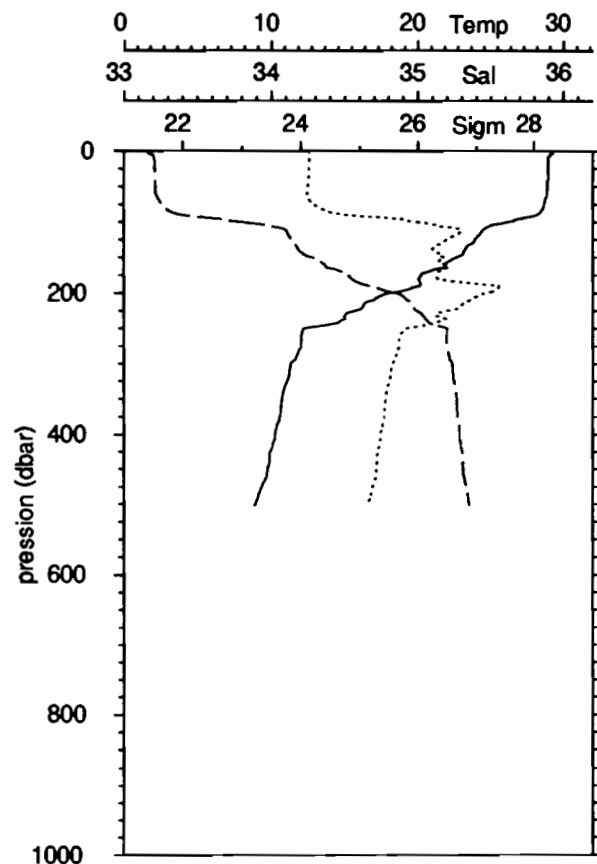
- - - sigma theta: kg/m<sup>3</sup>



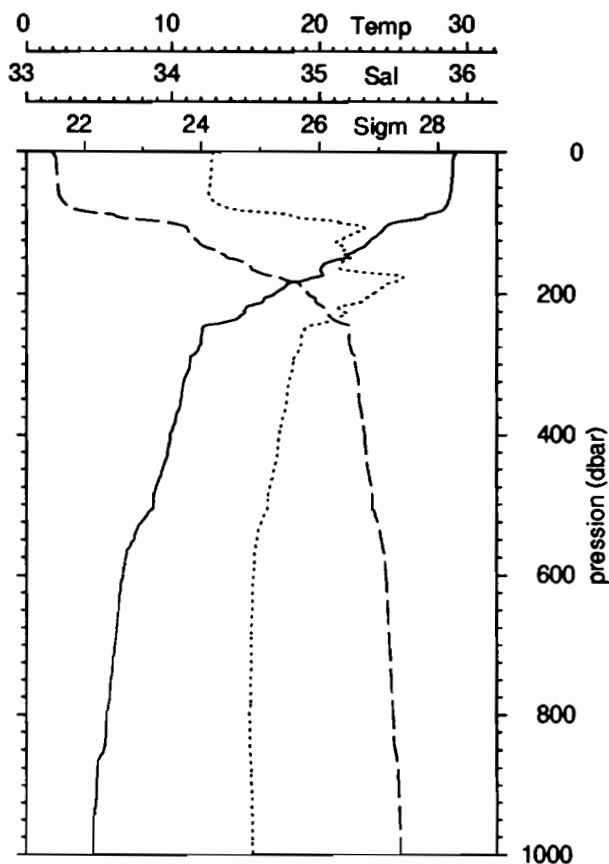
station 22  
14/11/92, 1h 1 TU  
1°30 S 156°15 E



station 23  
14/11/92, 2h 0 TU  
1°30 S 156°15 E



station 24  
14/11/92, 4h 0 TU  
1°30 S 156°15 E

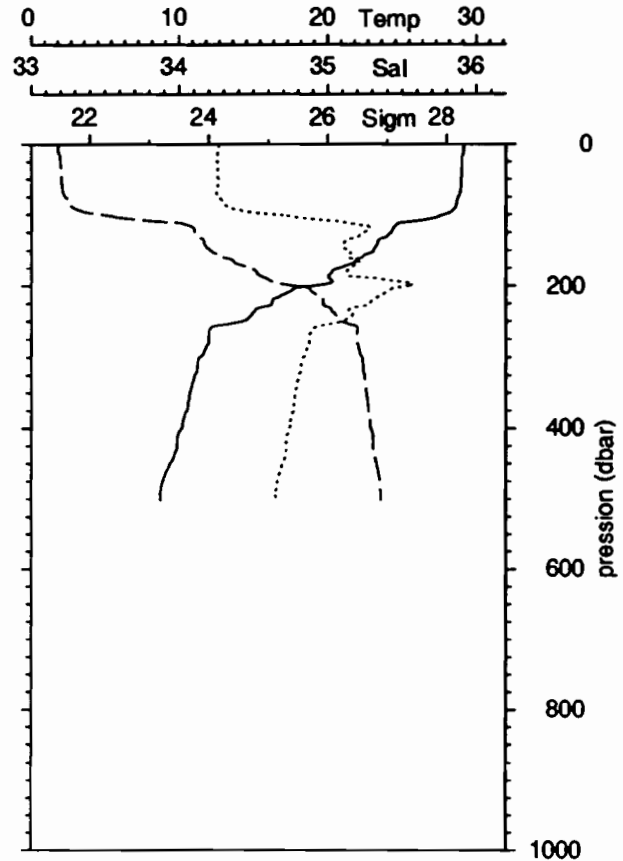
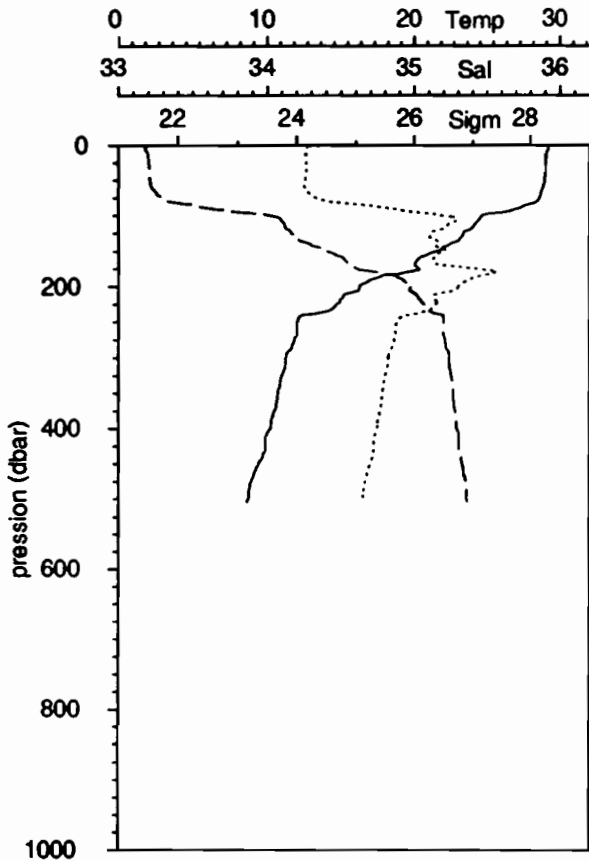
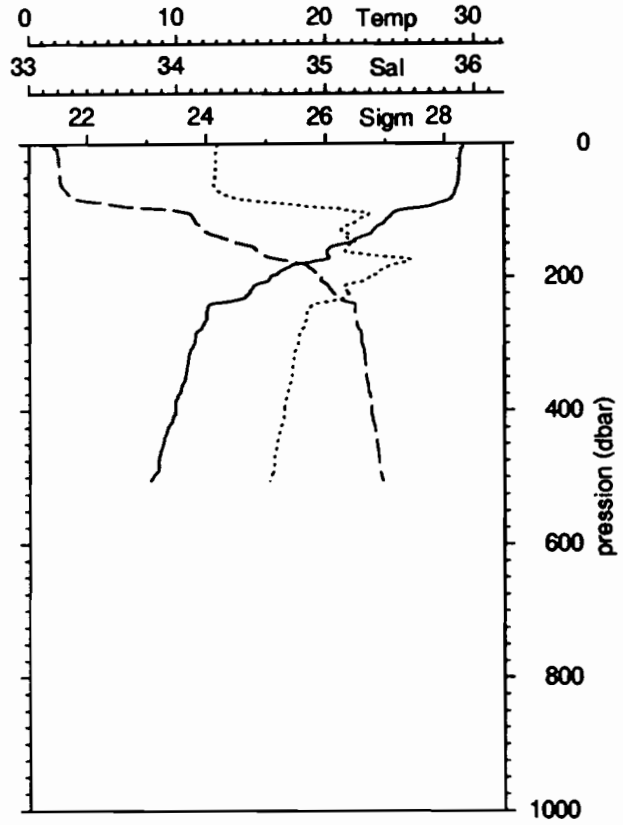
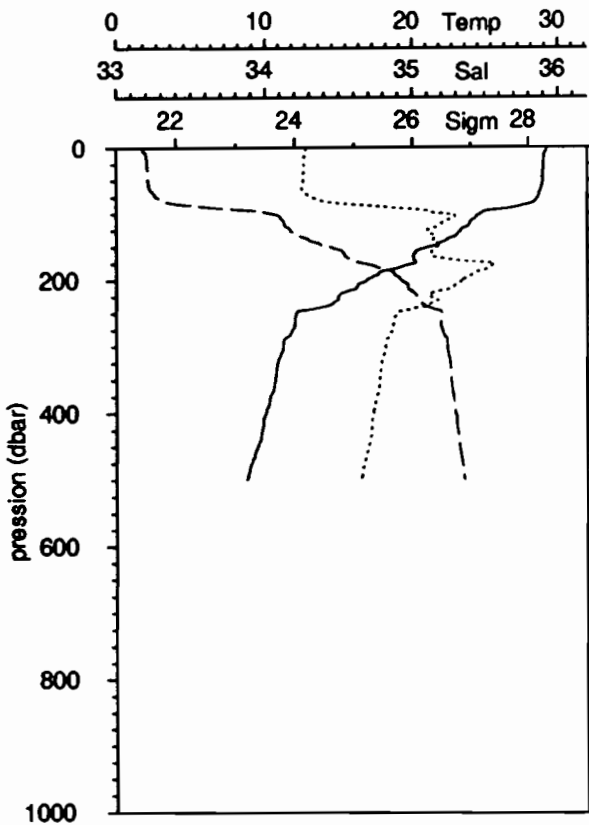


station 25  
14/11/92, 6h59 TU  
1°30 S 156°15 E

# EQUALIS

stations 27 28  
29 30

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>

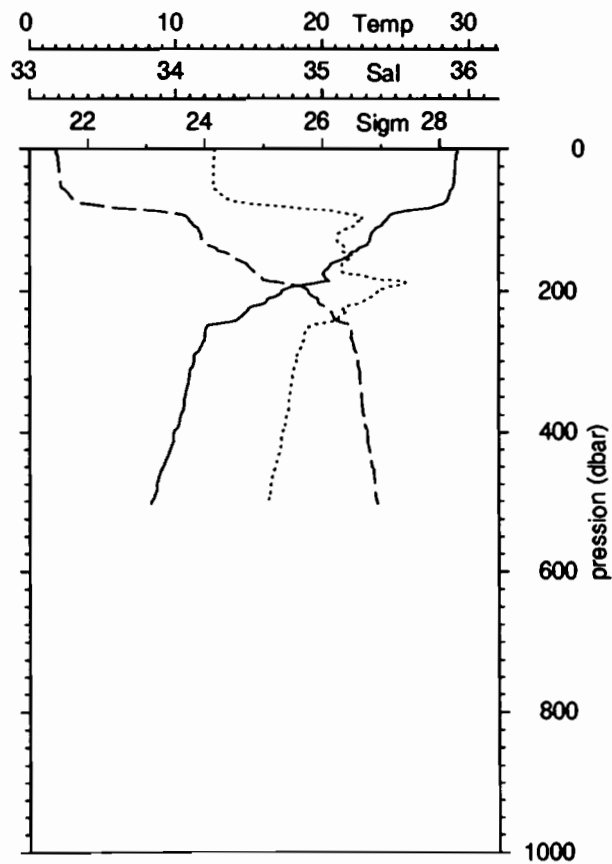
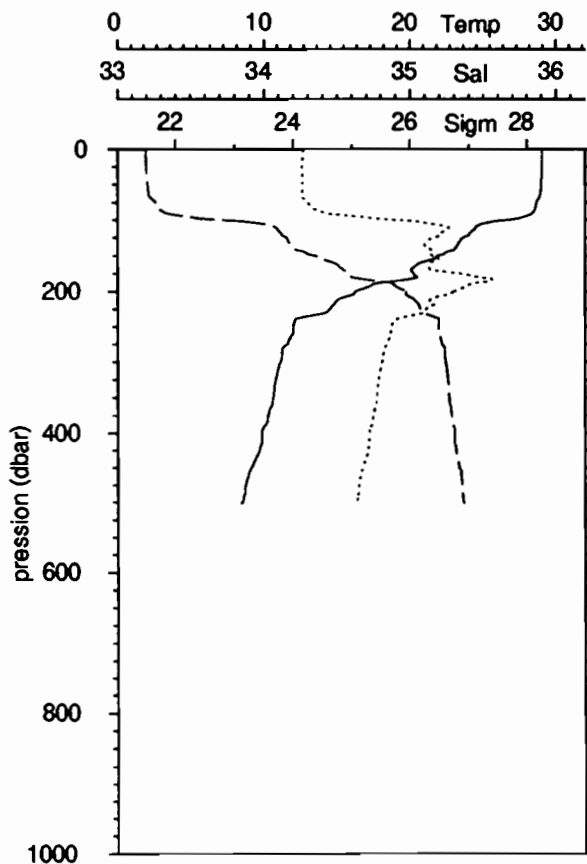
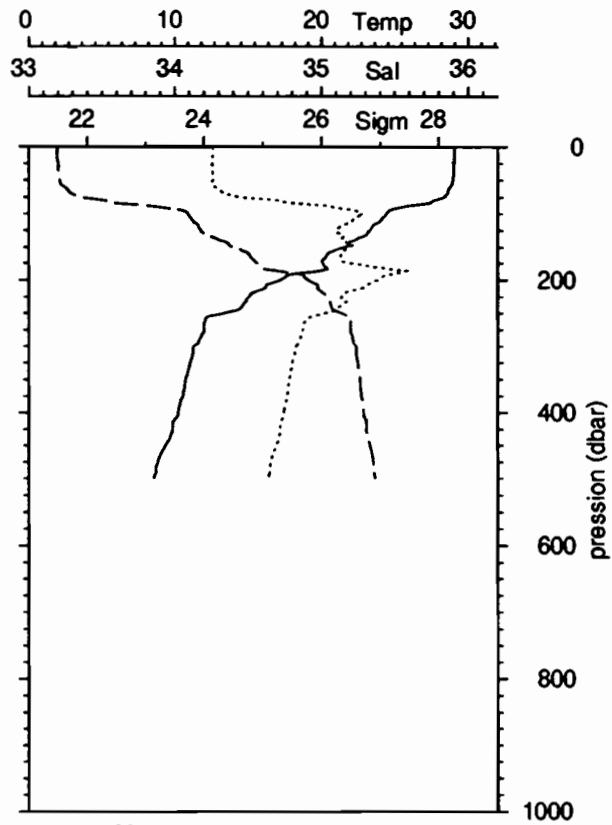
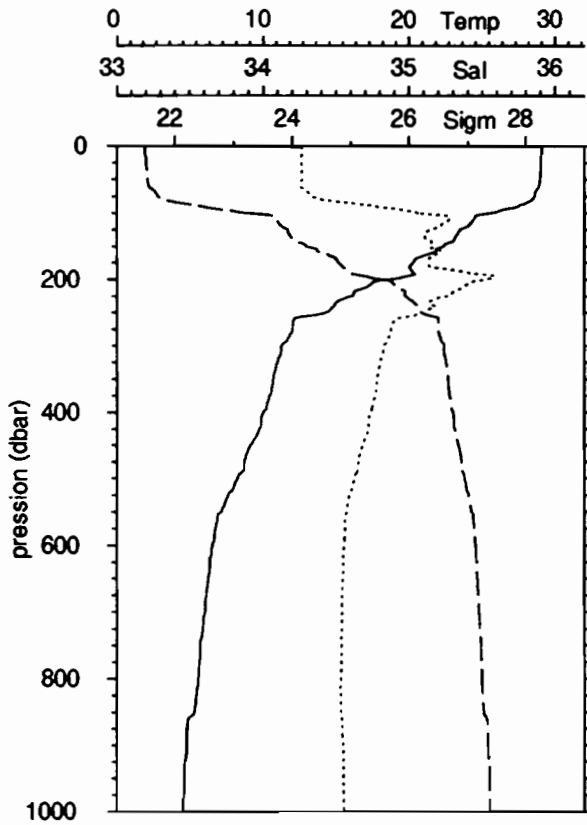


# EQUALIS

stations 31 32

33 34

— temperature: °C      ..... salinite      - - - sigma theta: kg/m3

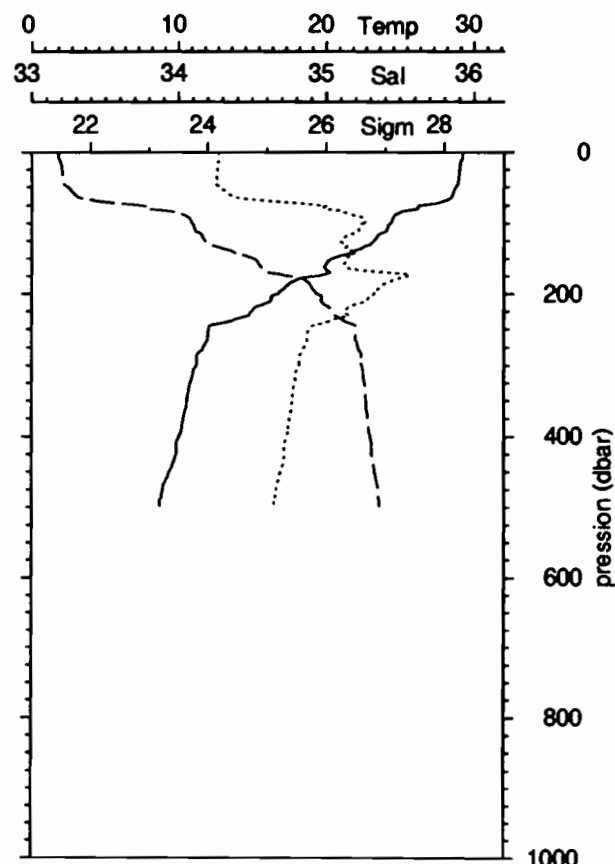
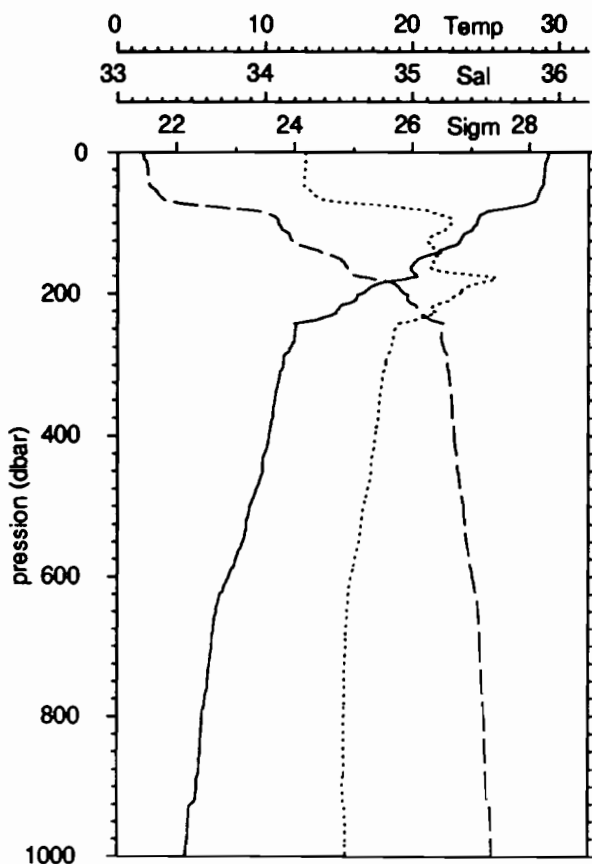
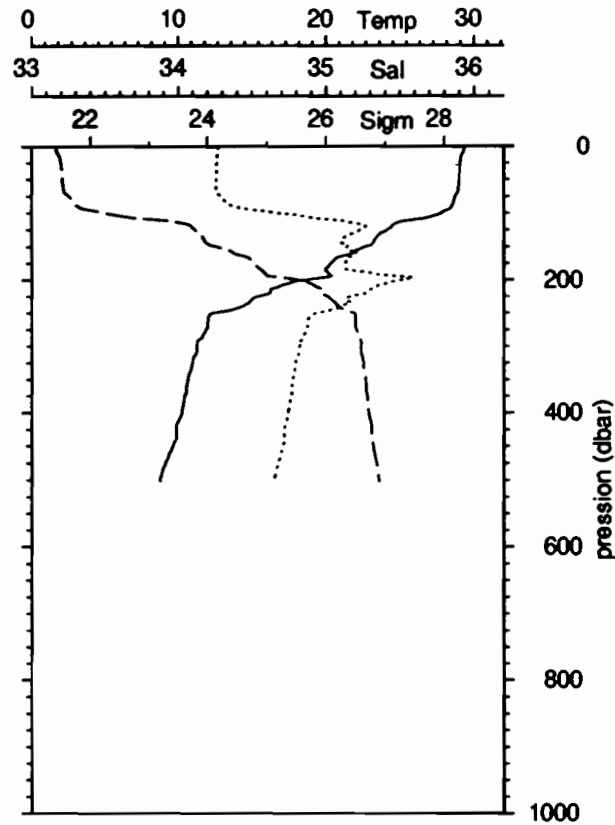
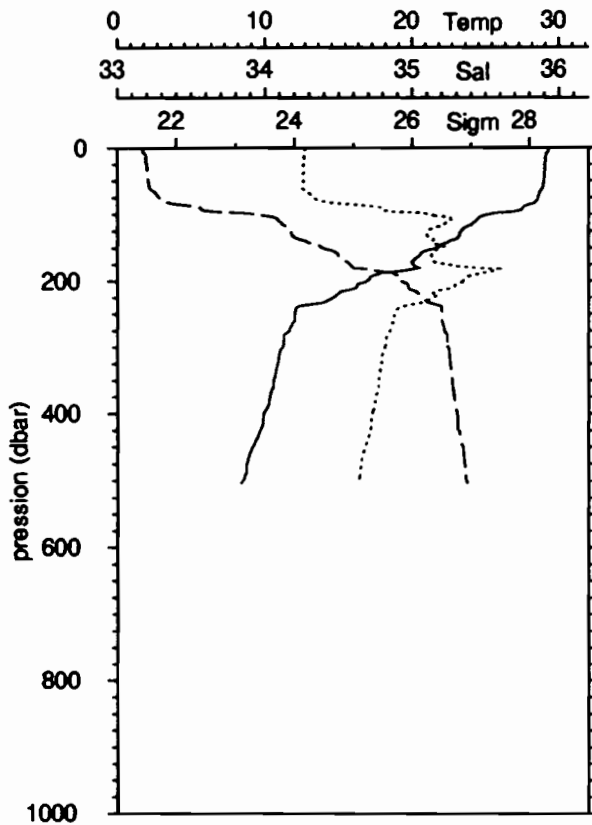


# EQUALIS

stations 35 37

38 39

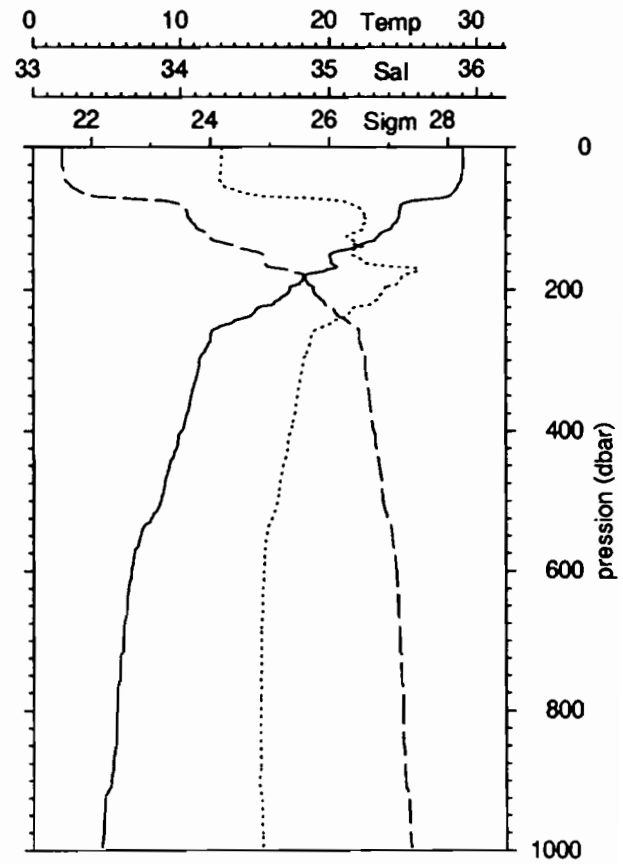
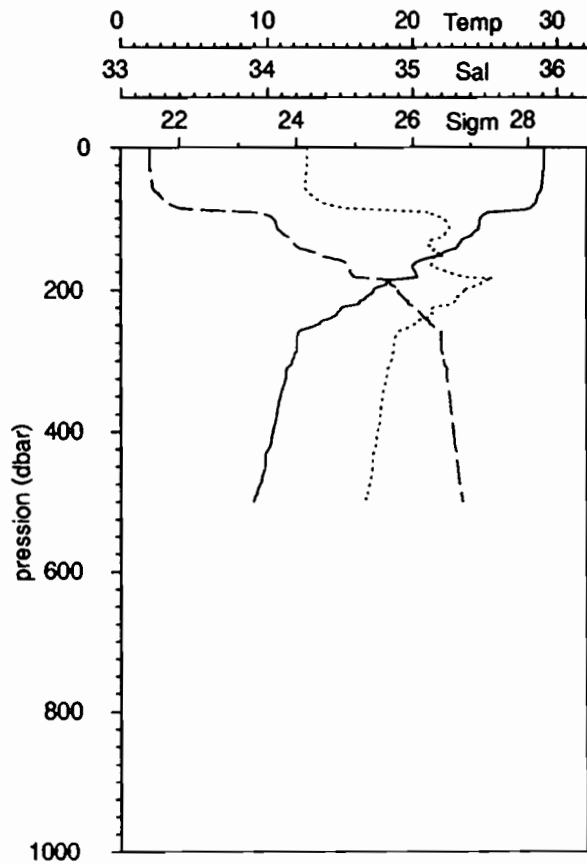
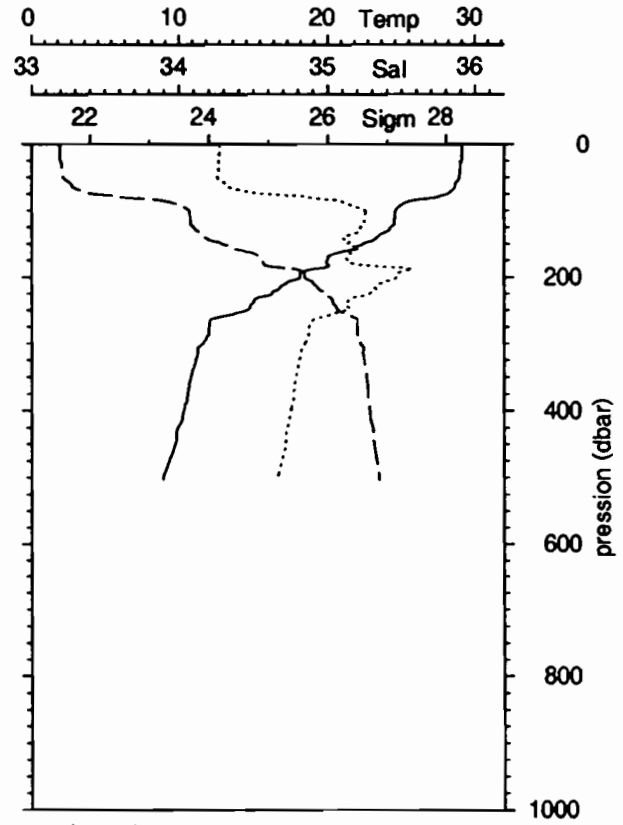
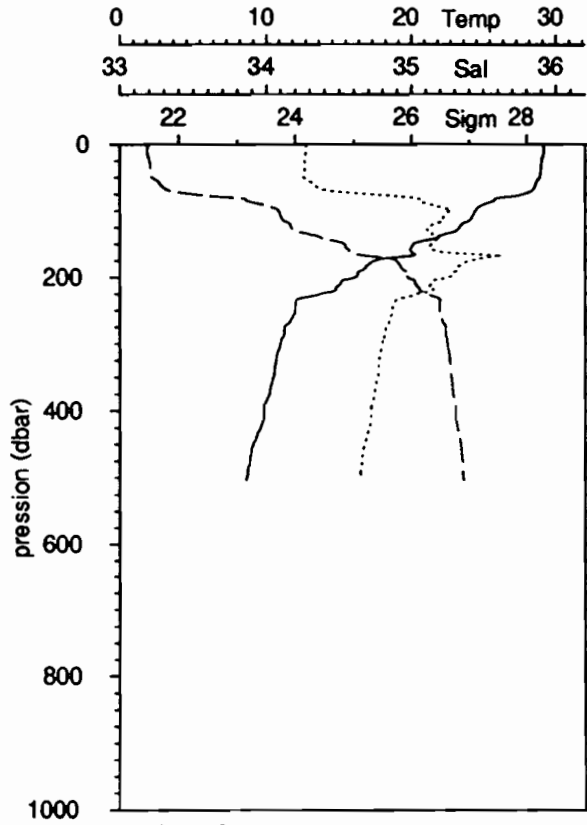
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



# EQUALIS

stations 40 41  
42 43

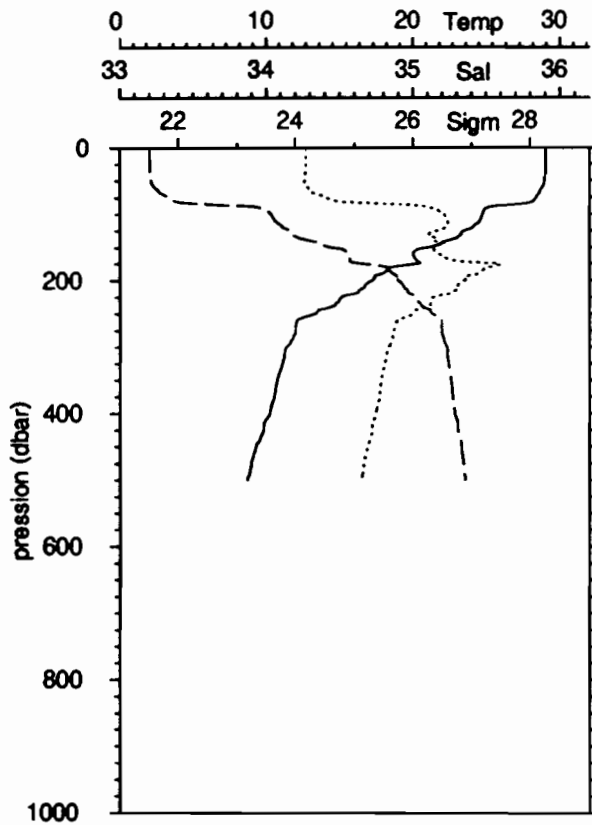
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



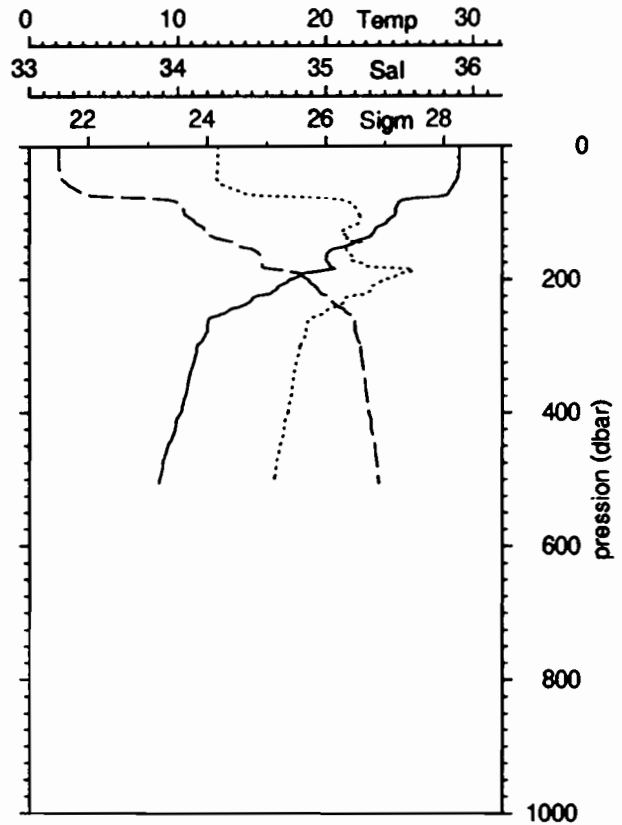
# EQUALIS

stations 44 45  
47 48

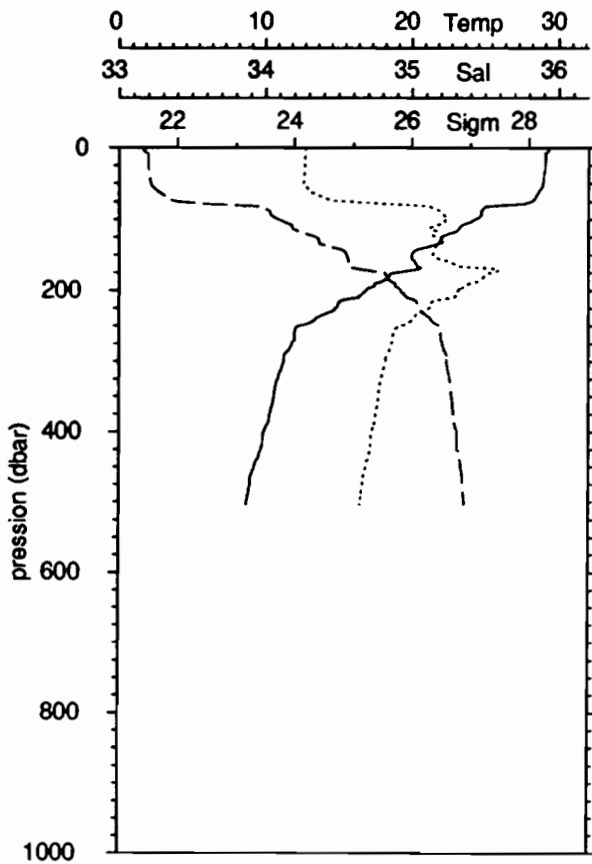
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



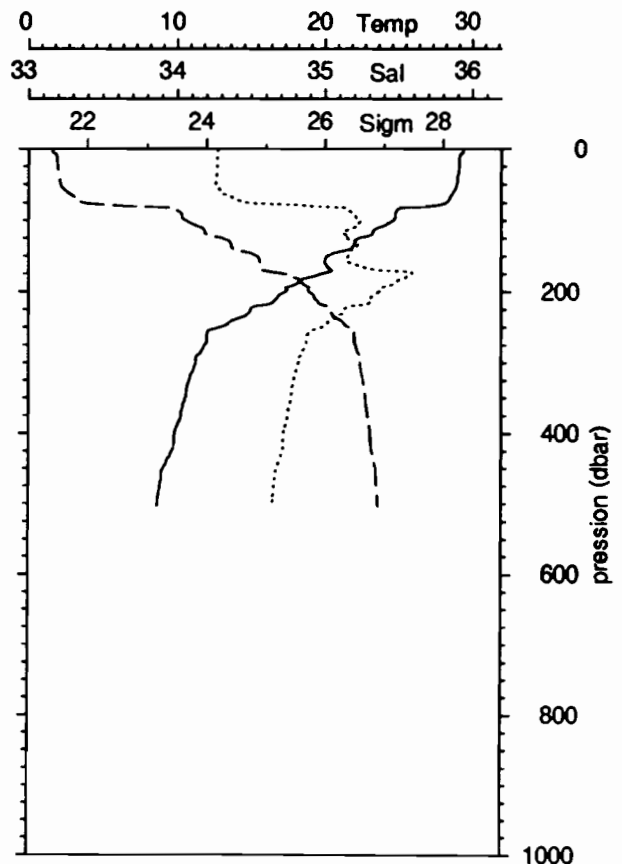
station 44  
15/11/92, 20h24 TU  
1°30 S 156°15 E



station 45  
15/11/92, 22h 6 TU  
1°30 S 156°15 E



station 47  
16/11/92, 1h 2 TU  
1°30 S 156°15 E



station 48  
16/11/92, 1h53 TU  
1°30 S 156°15 E

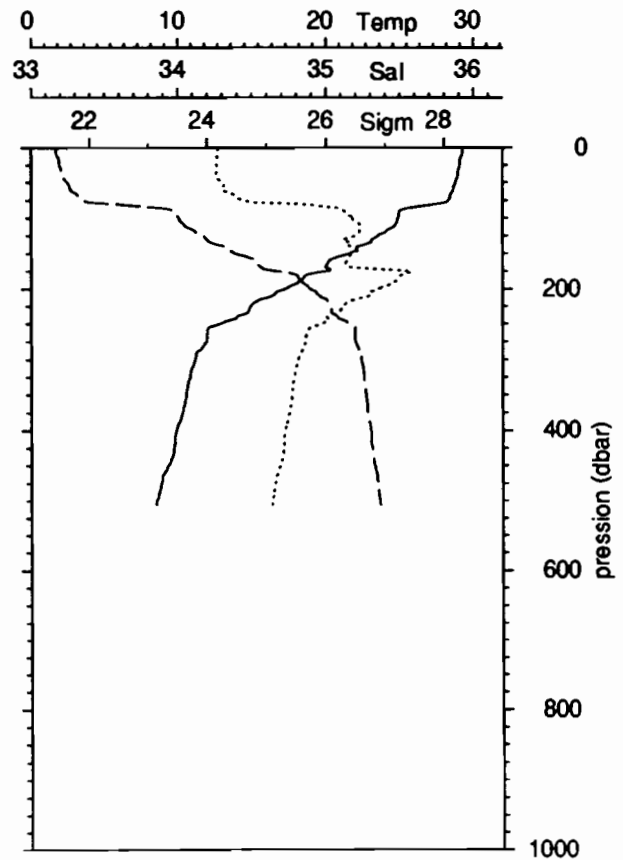
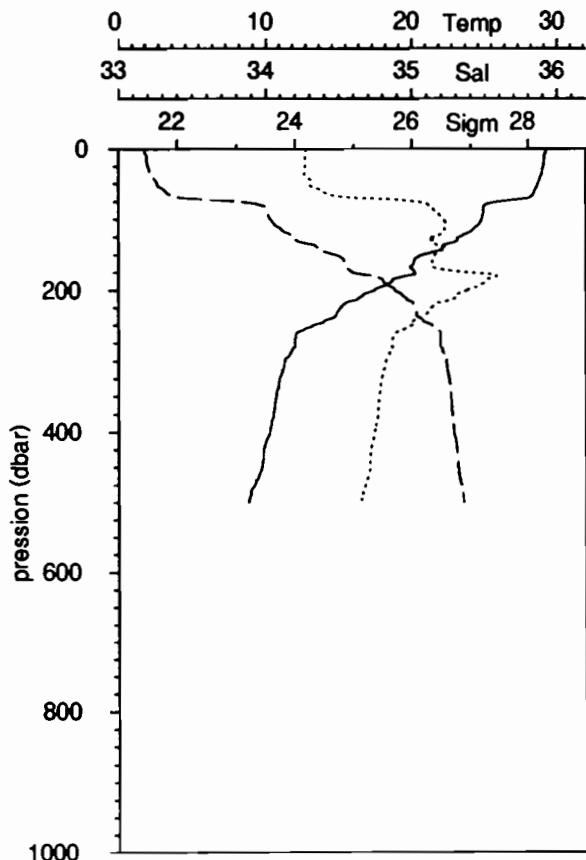
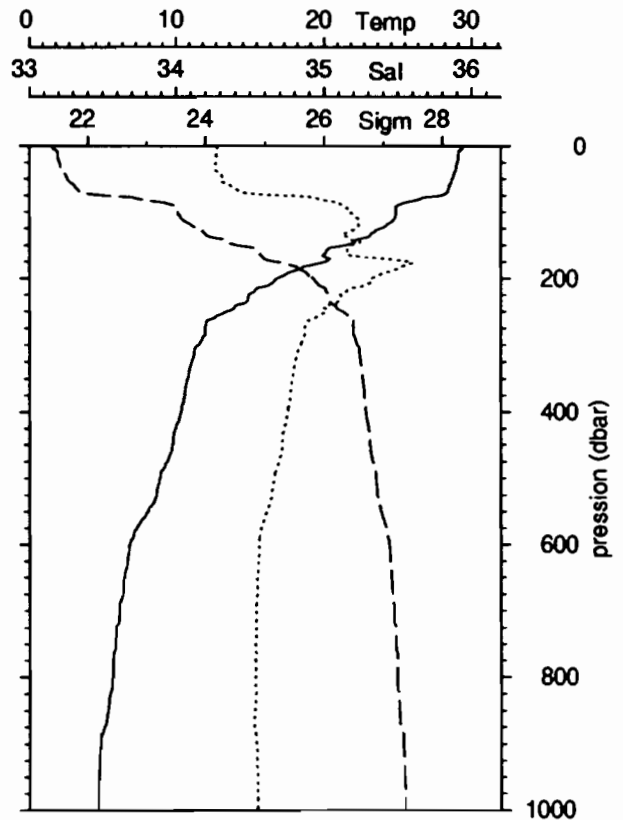
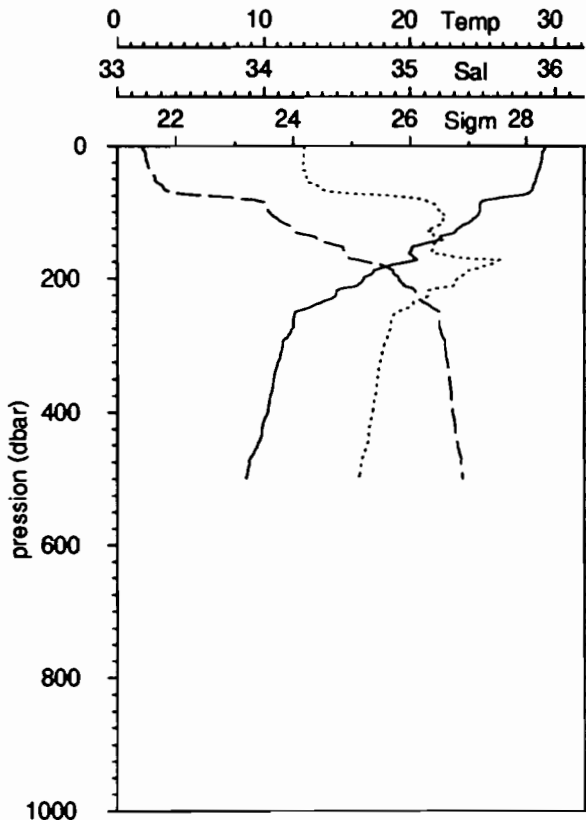


# EQUALIS

stations 49 50

51 52

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>

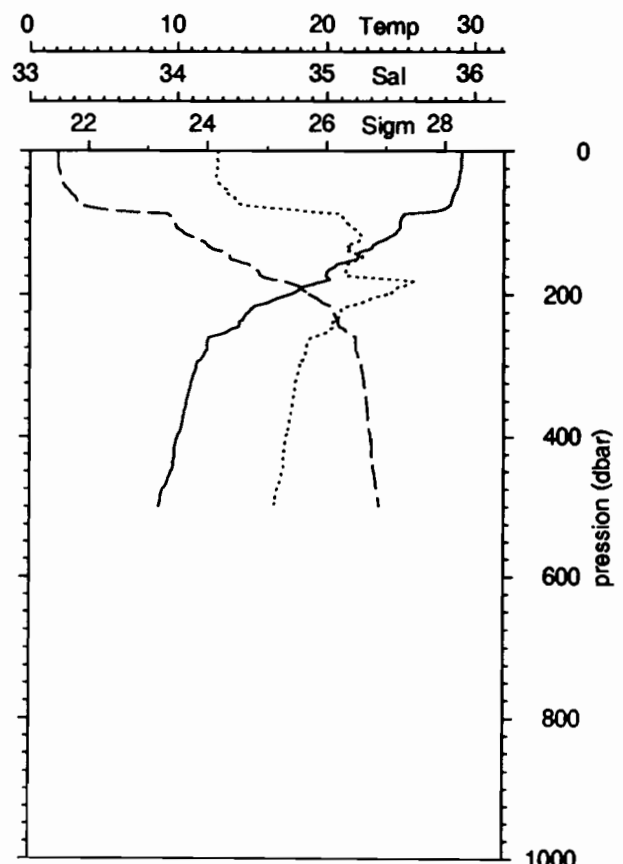
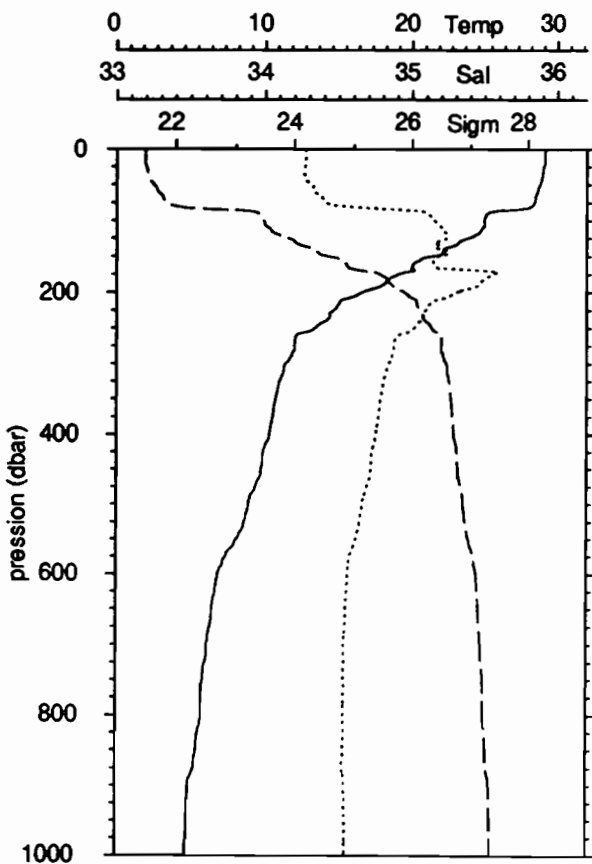
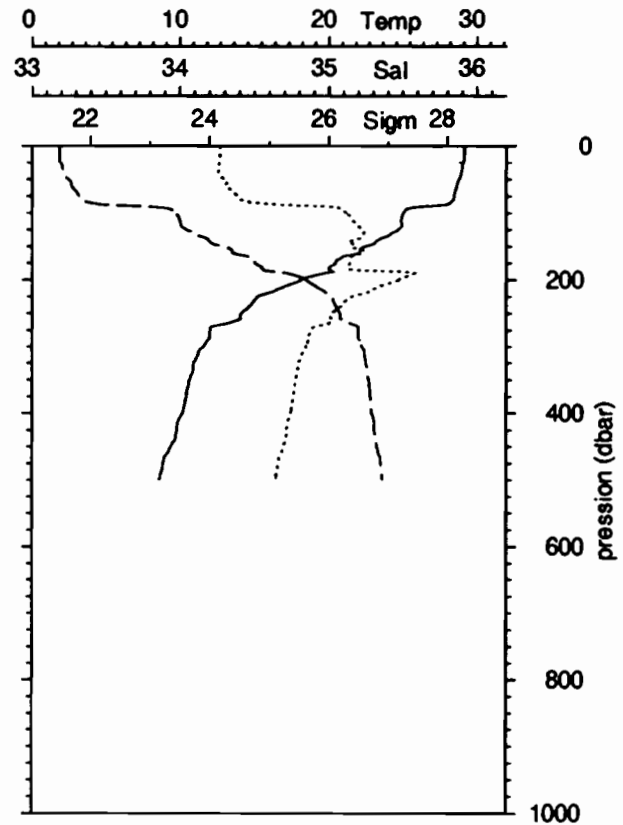
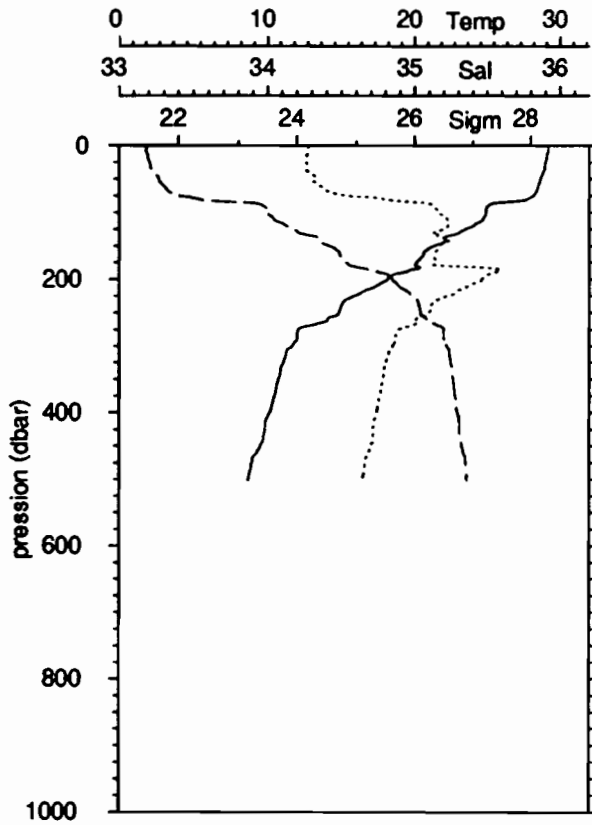


# EQUALIS

stations 53 54

55 57

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>

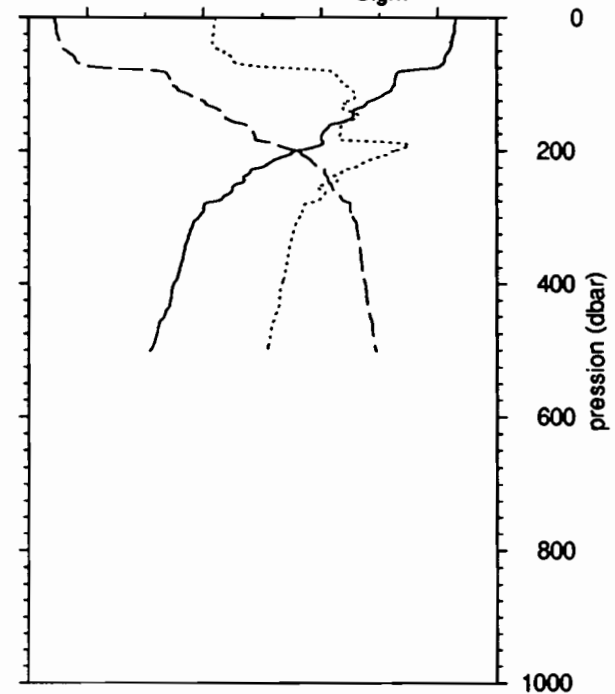
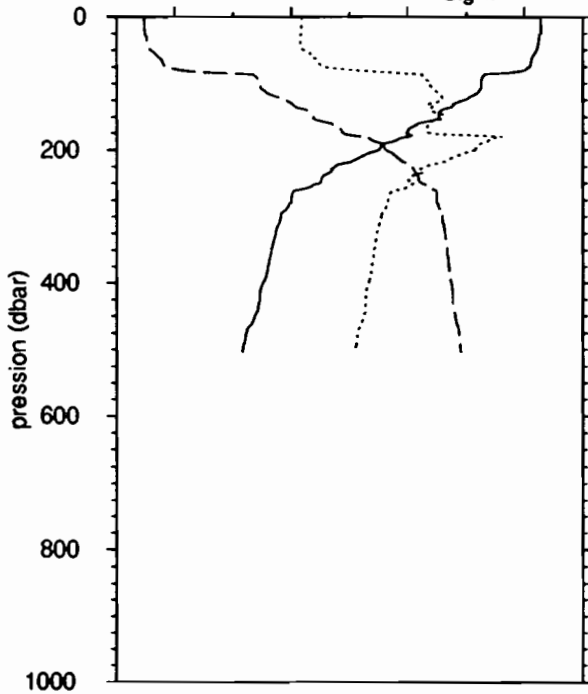
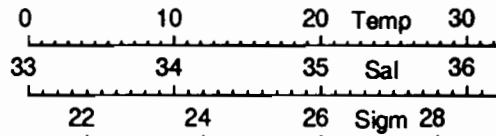
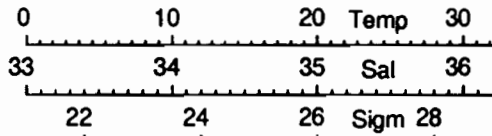


# EQUALIS

stations 58 59

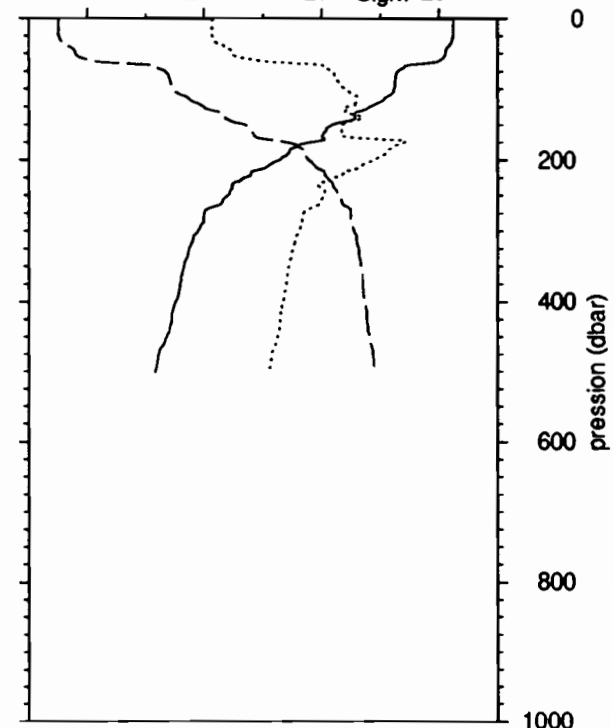
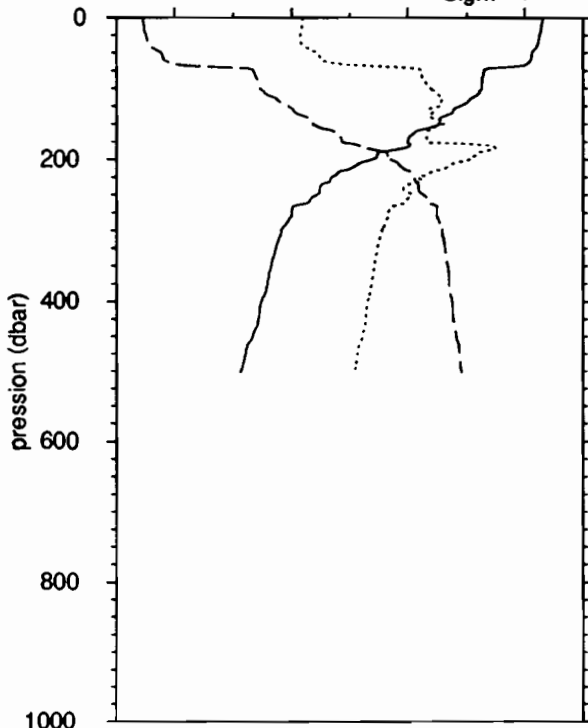
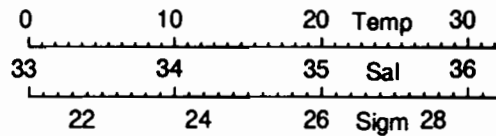
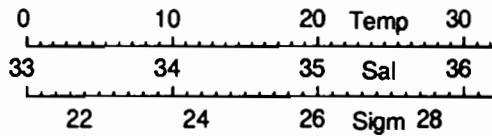
70 71

— temperature: °C      ······ salinite      - - - - sigma theta: kg/m3



station 58  
16/11/92, 22h 5 TU  
1°30 S 156°15 E

station 59  
17/11/92, 0h59 TU  
1°30 S 156°15 E



station 70  
17/11/92, 1h56 TU  
1°30 S 156°15 E

station 71  
17/11/92, 4h 2 TU  
1°30 S 156°15 E

# EQUALIS

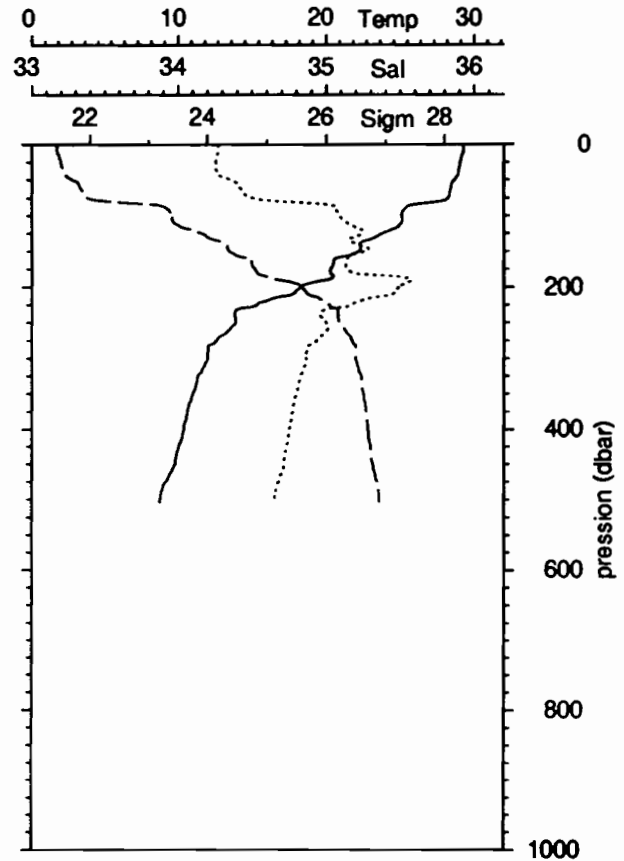
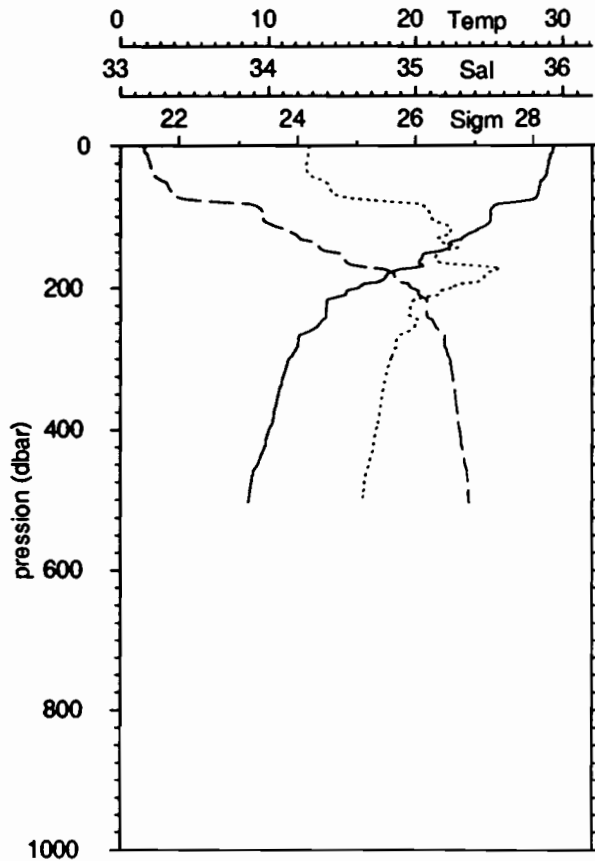
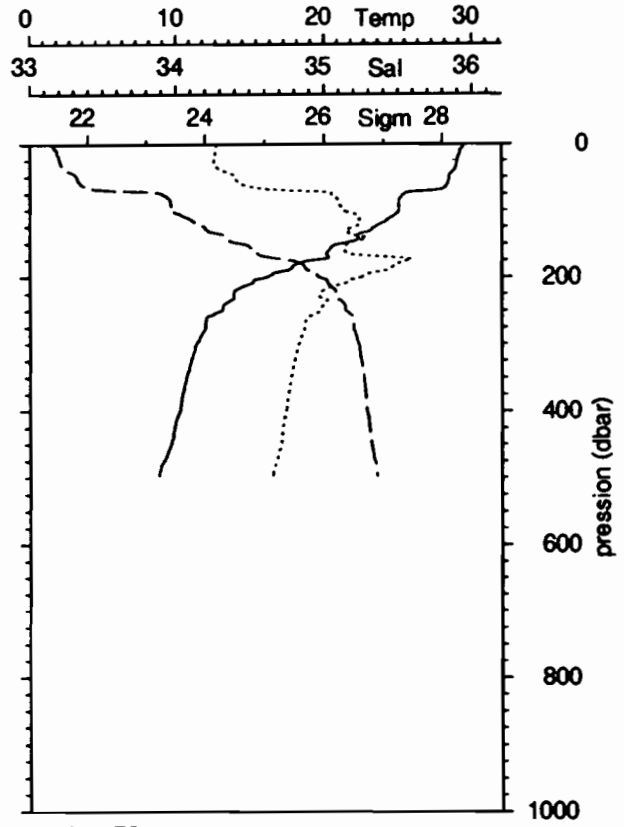
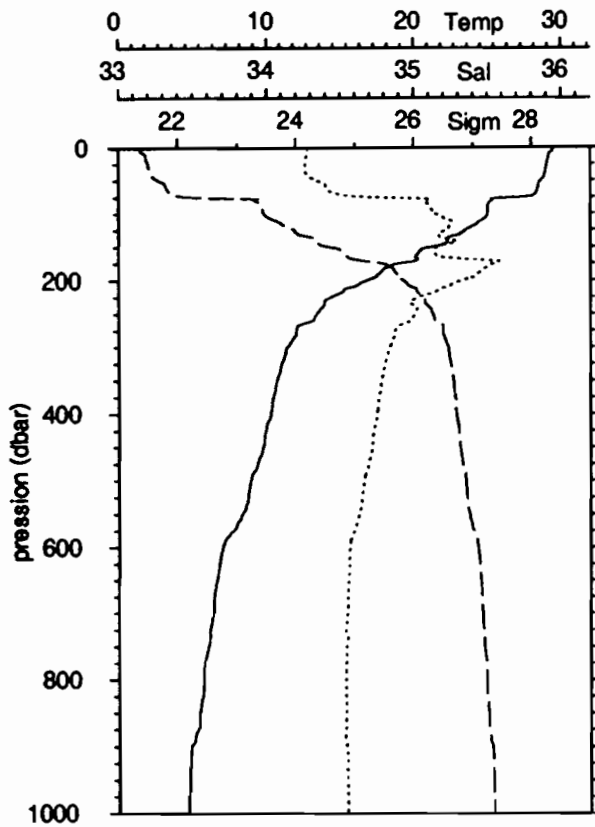
stations 72 73

74 75

— temperature: °C

..... salinite

- - - sigma theta: kg/m<sup>3</sup>

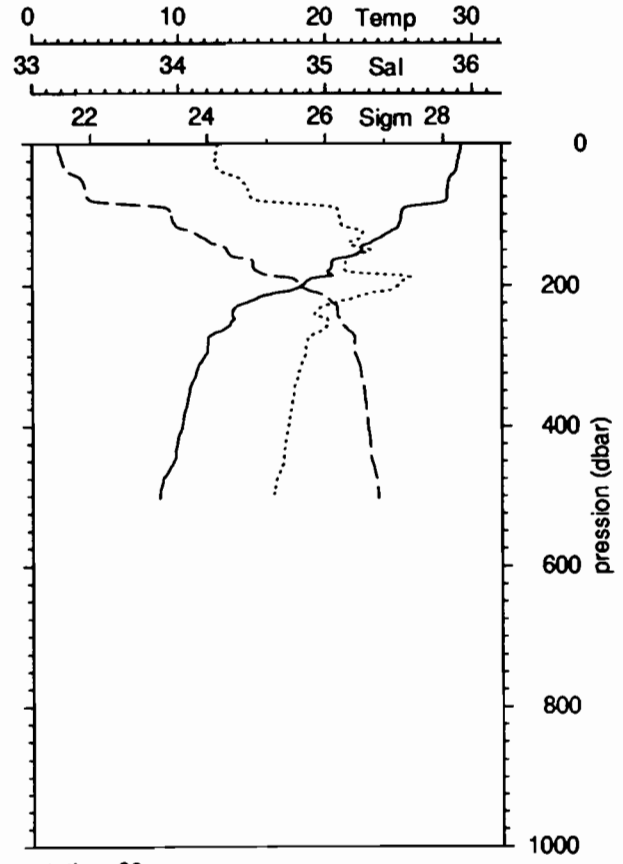
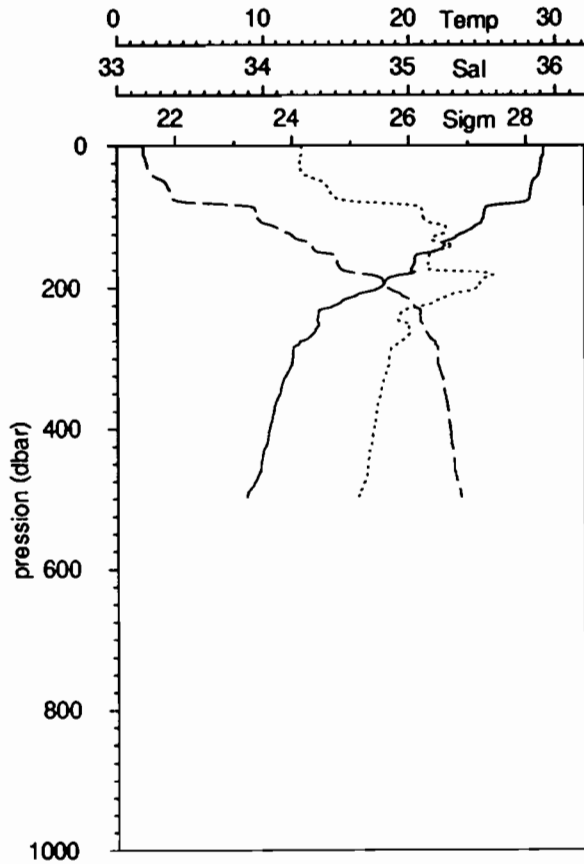
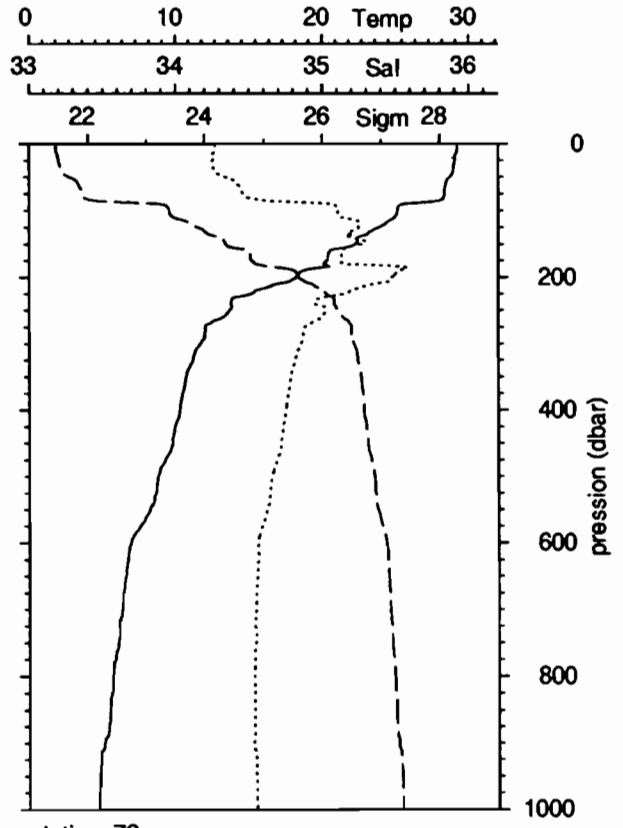
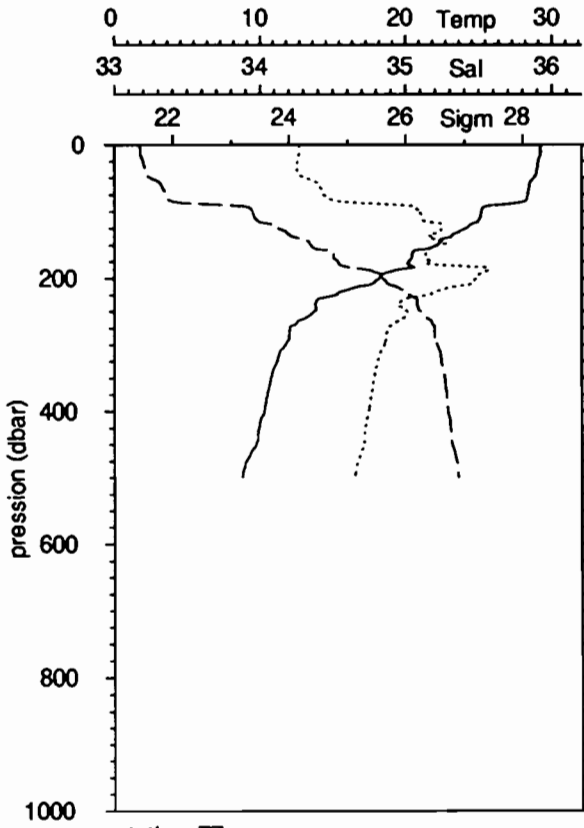


# EQUALIS

stations 77 78

79 80

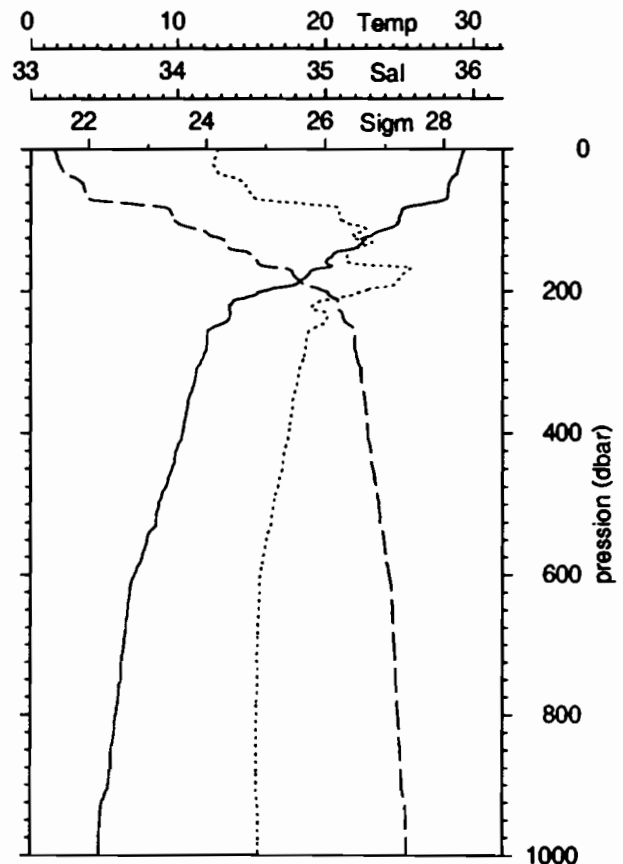
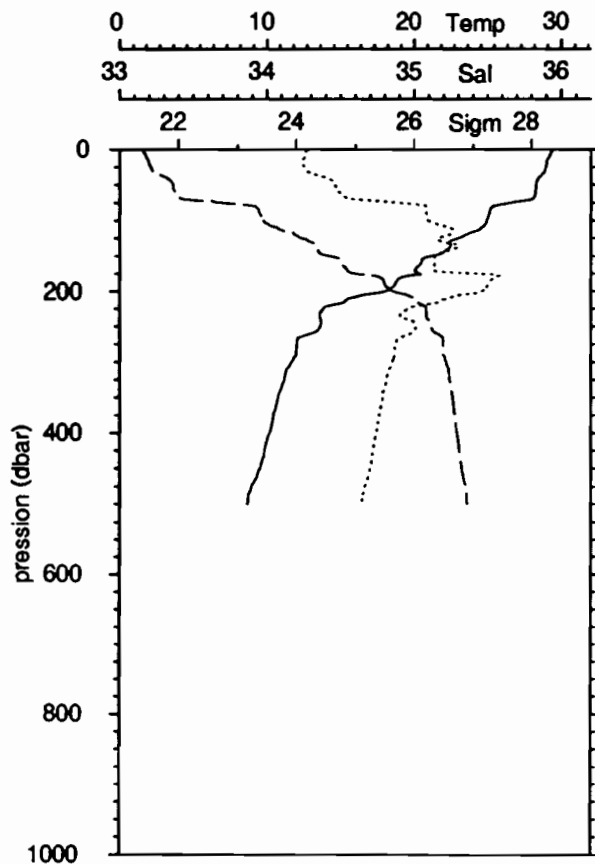
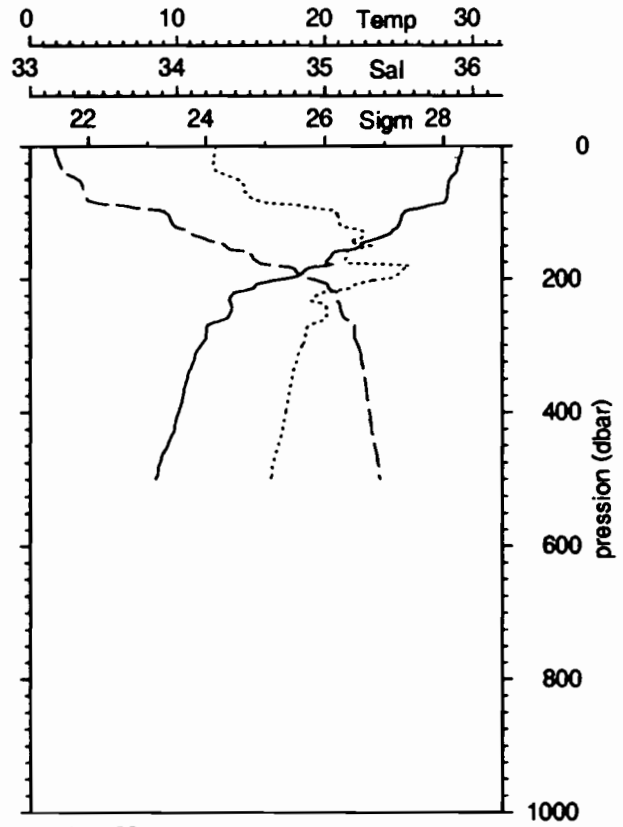
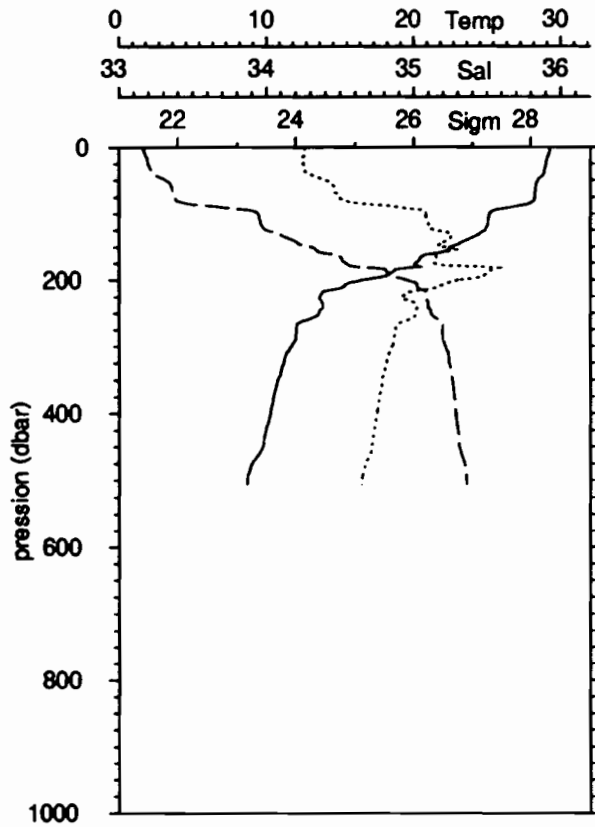
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



# EQUALIS

stations 81 82  
83 84

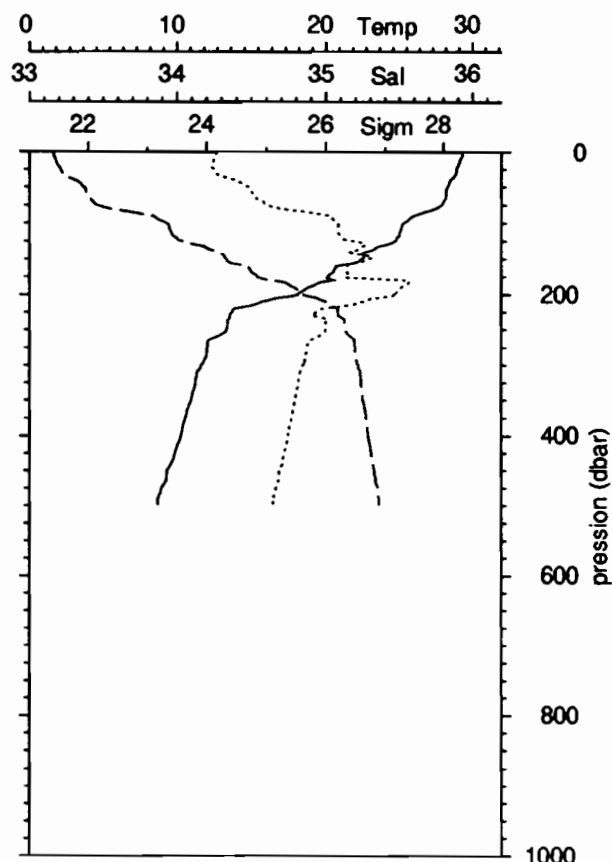
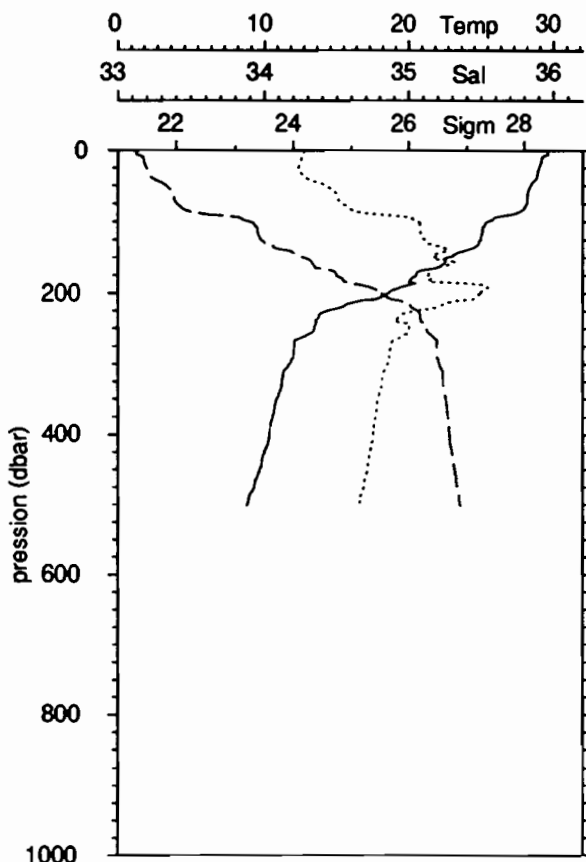
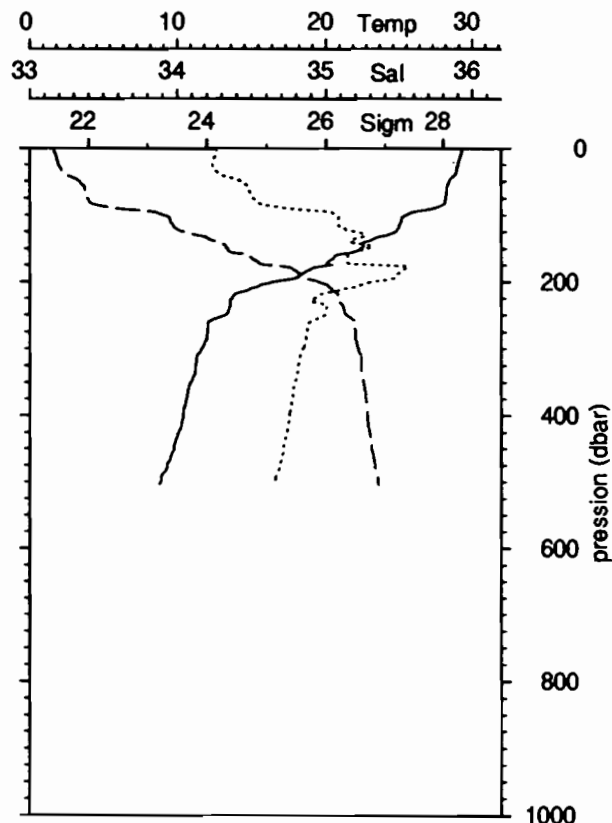
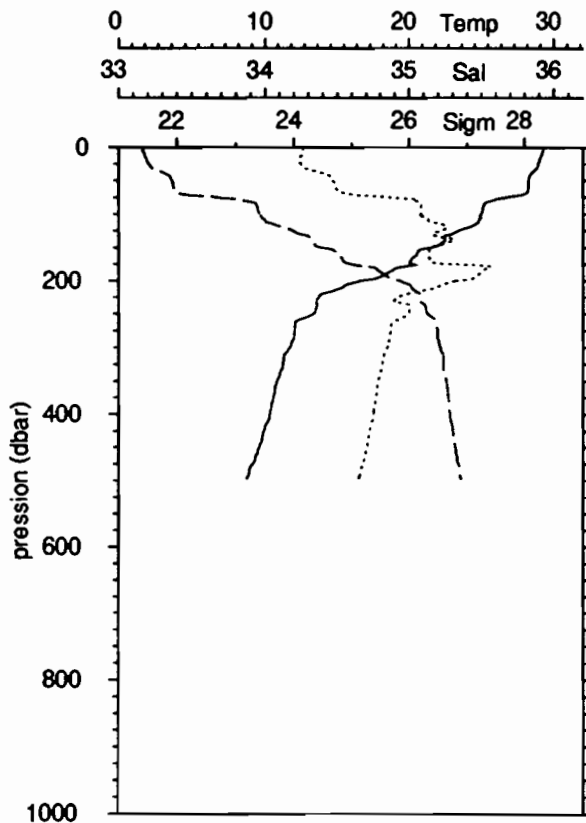
— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



# EQUALIS

stations 85 87  
88 89

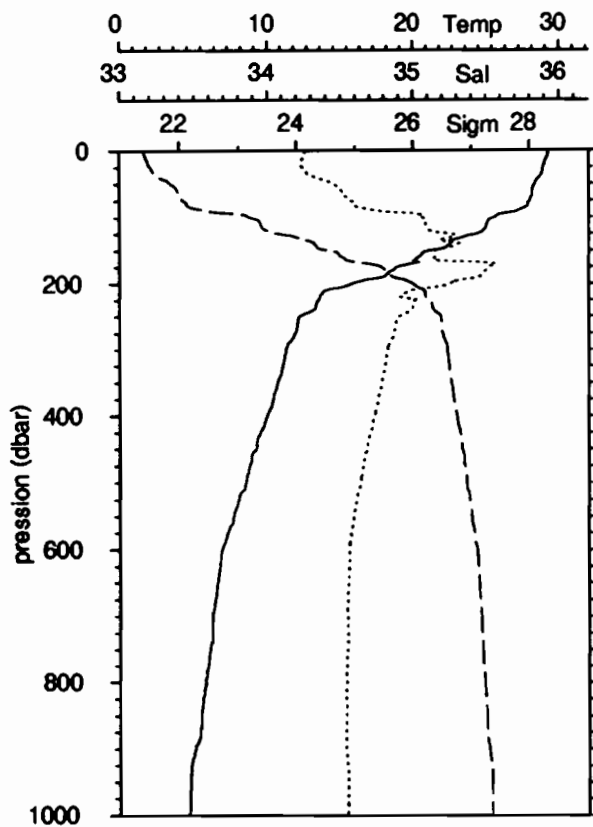
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



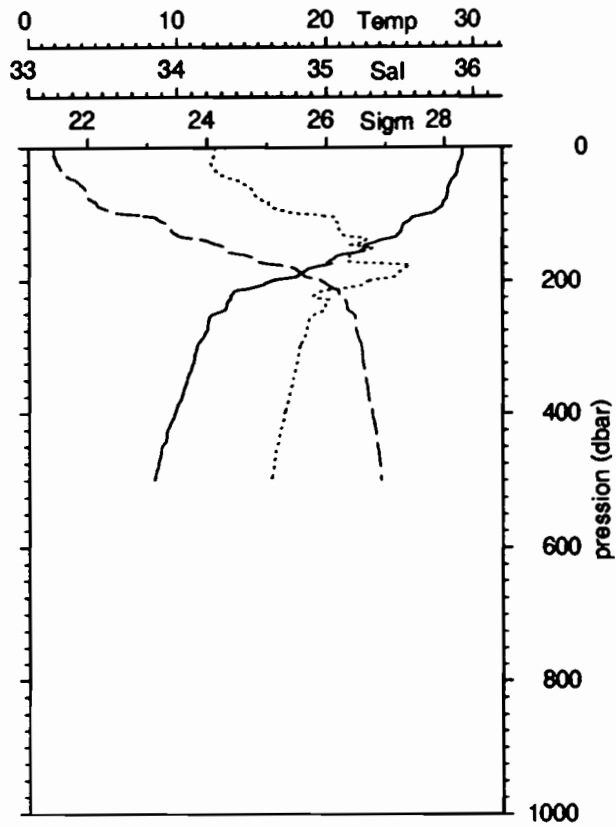
# EQUALIS

stations 90 91  
92 93

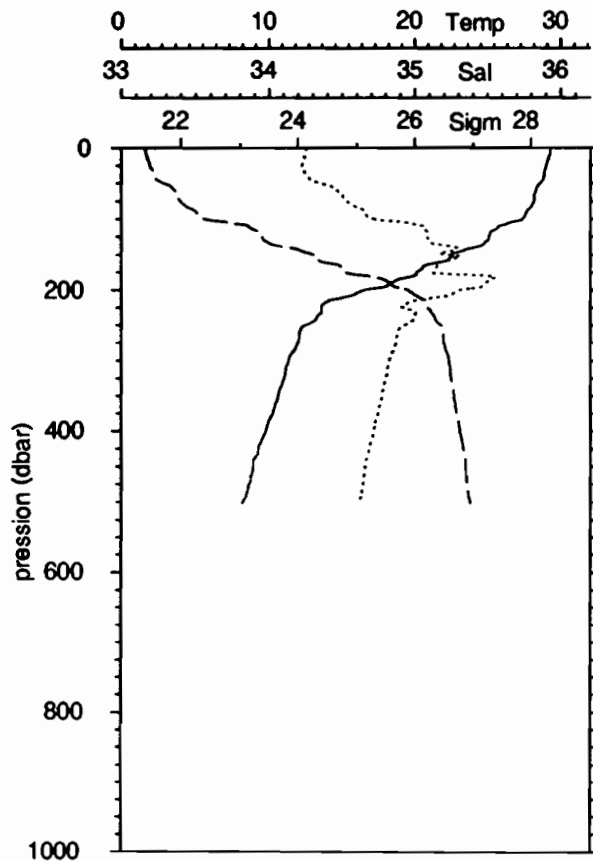
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



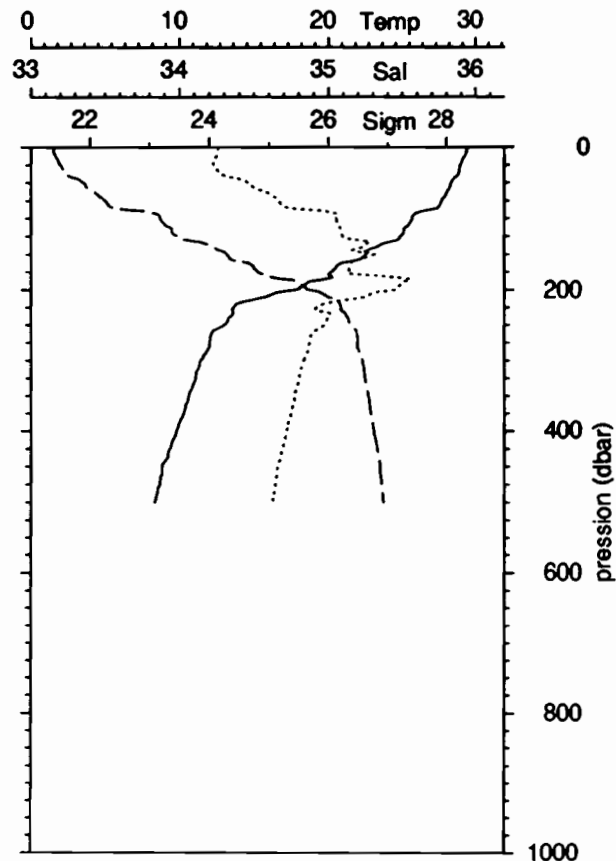
station 90  
18/11/92, 19h 5 TU  
1°30 S 156°15 E



station 91  
18/11/92, 20h14 TU  
1°30 S 156°15 E



station 92  
18/11/92, 22h 5 TU  
1°30 S 156°15 E

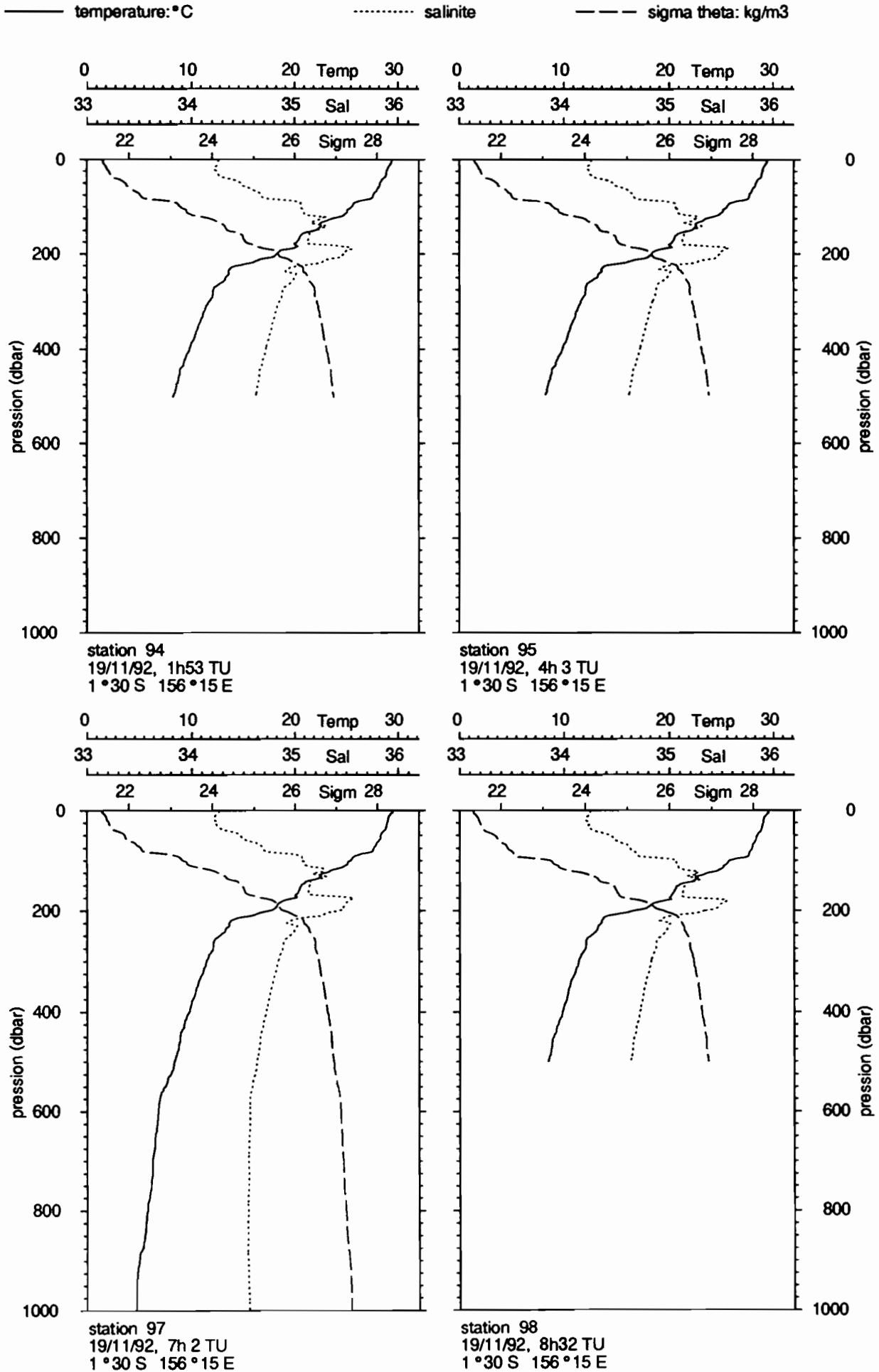


station 93  
19/11/92, 1h 0 TU  
1°30 S 156°15 E



# EQUALIS

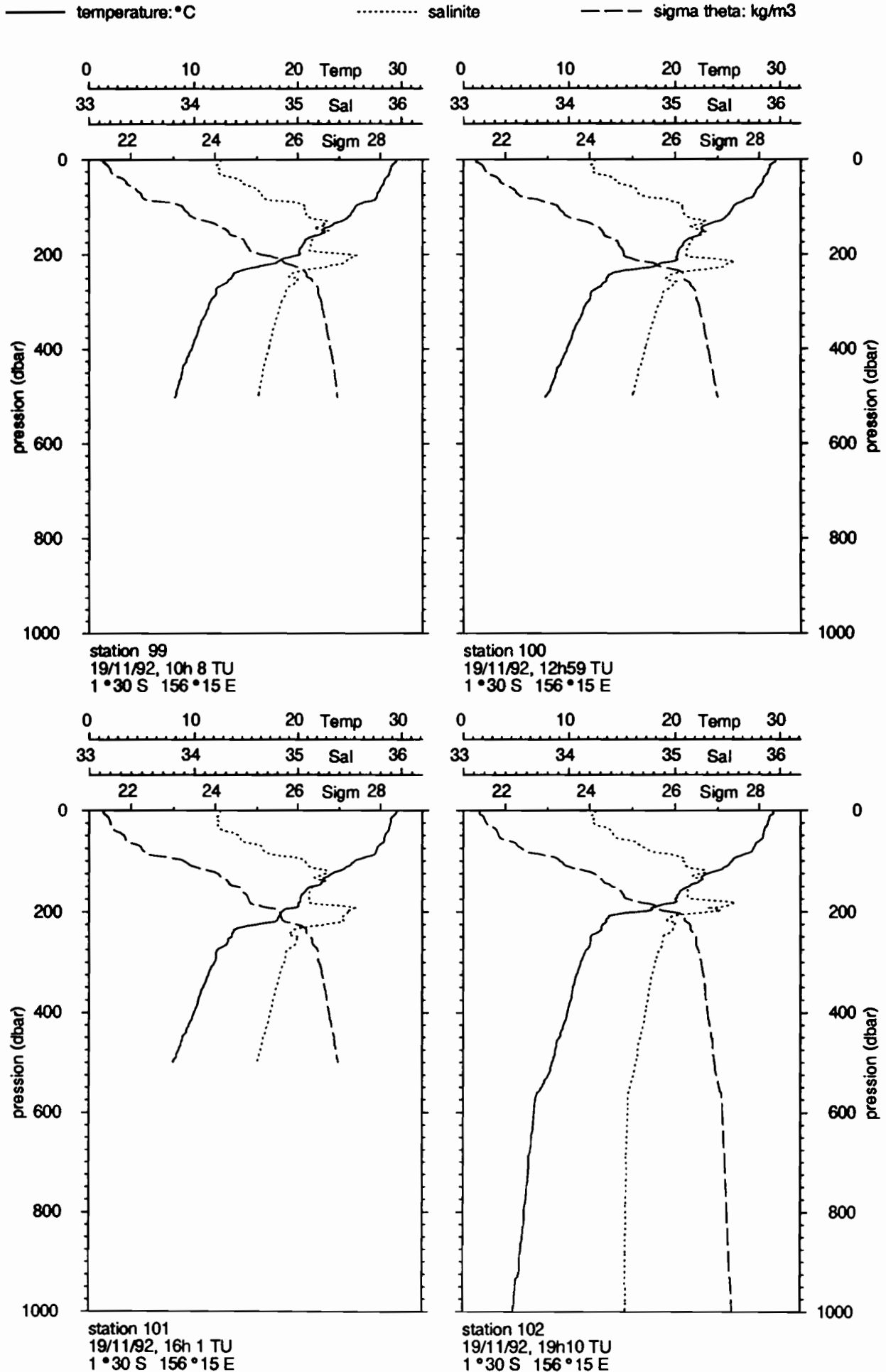
stations 94 95  
97 98



# EQUALIS

stations 99 100

101 102

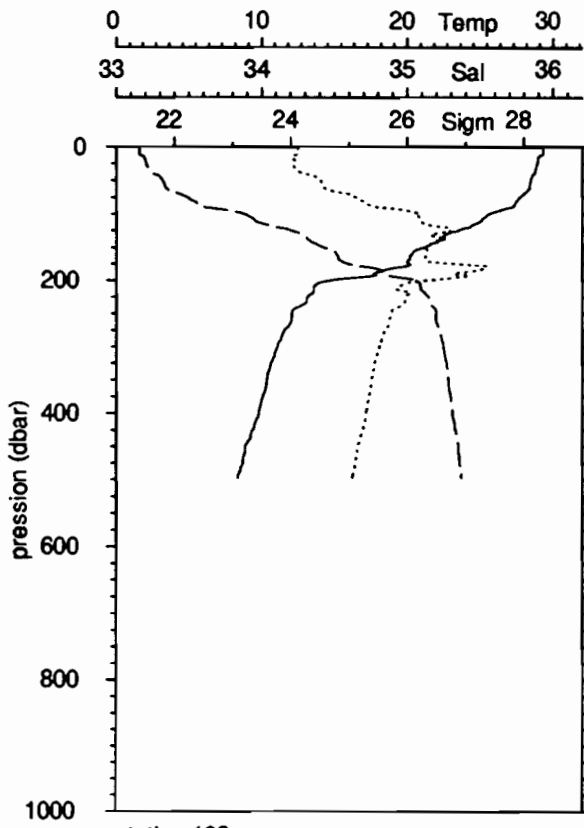


# EQUALIS

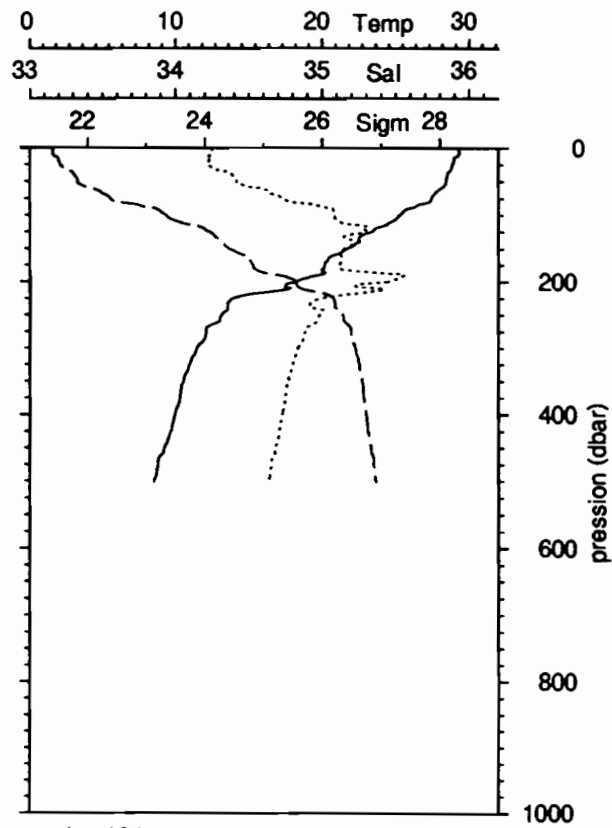
stations 103 104

105 107

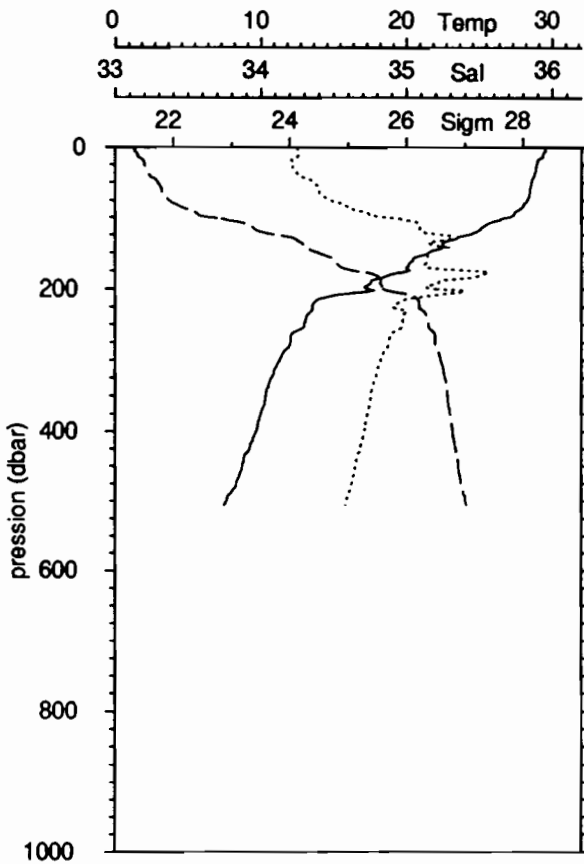
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



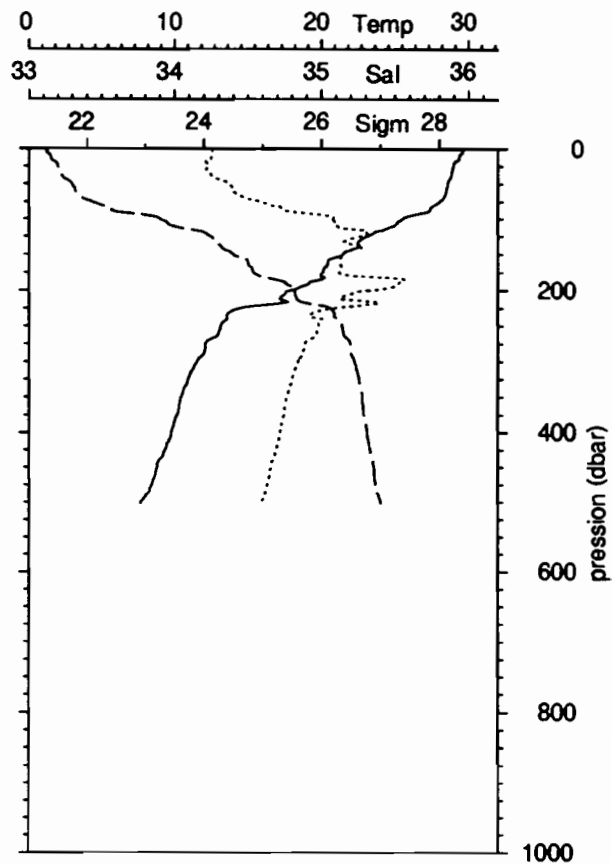
station 103  
19/11/92, 20h25 TU  
1°30 S 156°15 E



station 104  
19/11/92, 22h 6 TU  
1°30 S 156°15 E



station 105  
20/11/92, 0h59 TU  
1°30 S 156°15 E



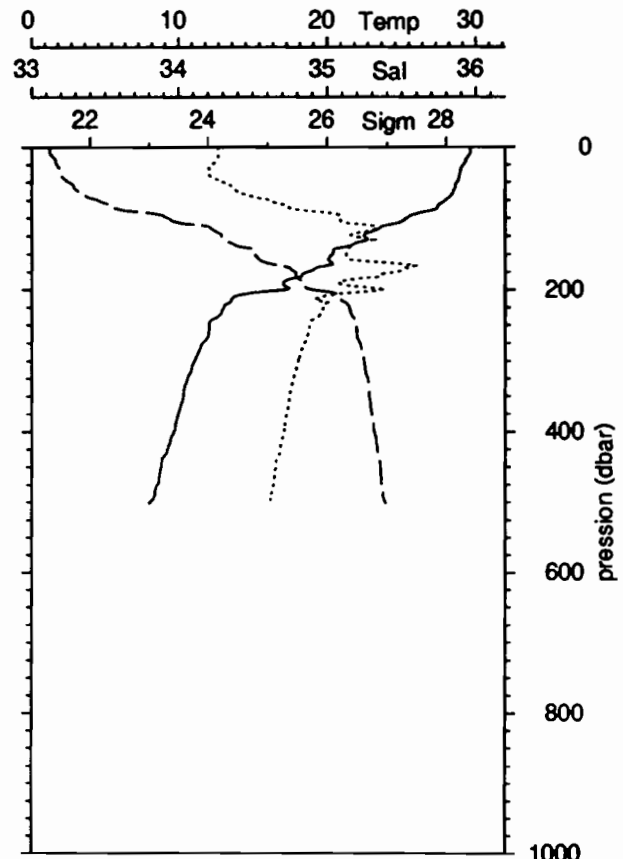
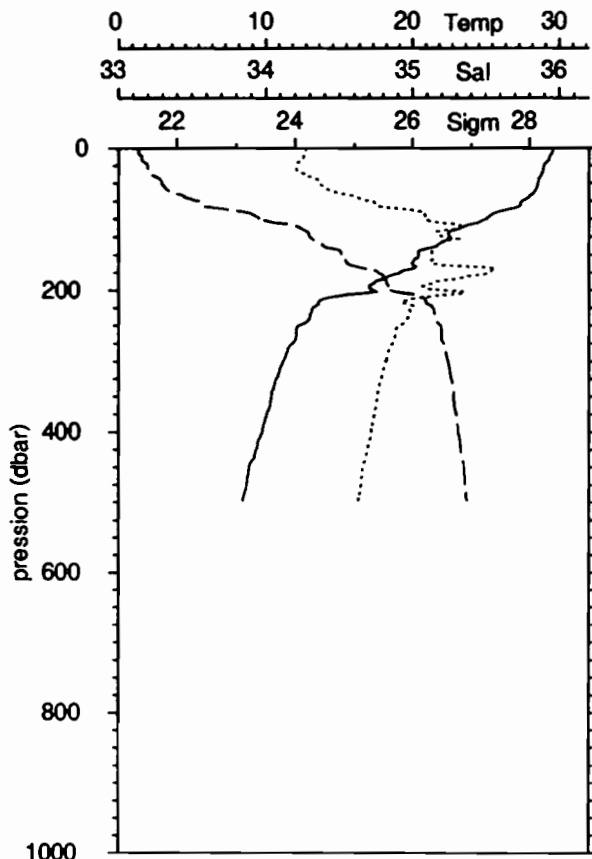
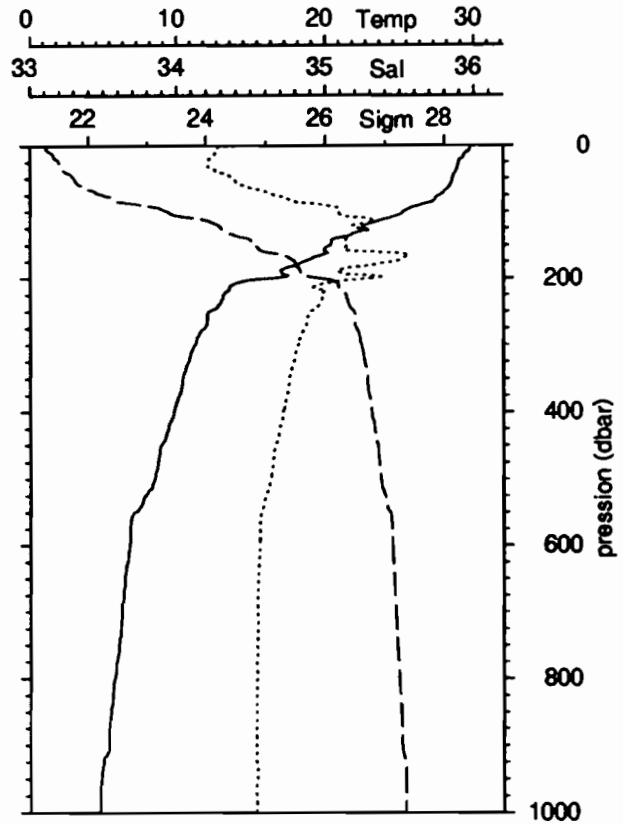
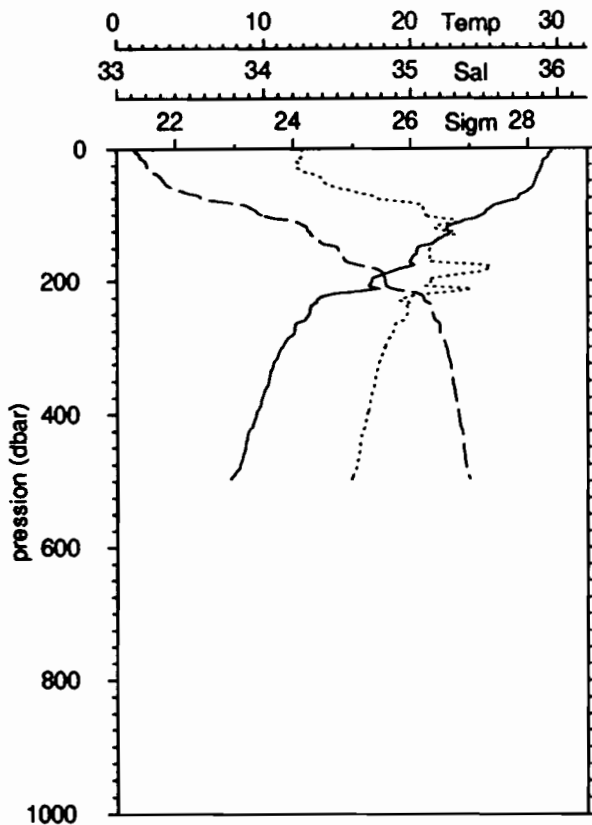
station 107  
20/11/92, 1h47 TU  
1°30 S 156°15 E

# EQUALIS

stations 108 109

110 111

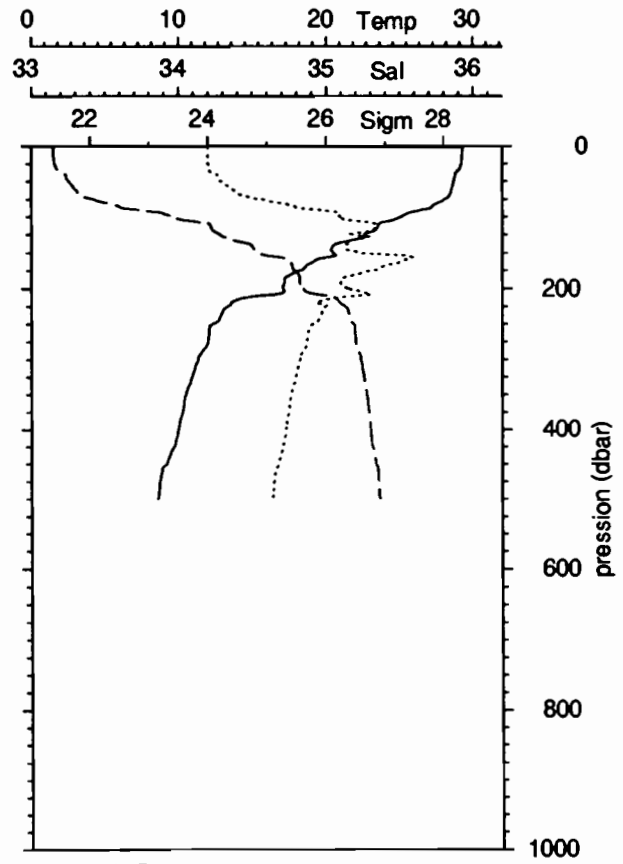
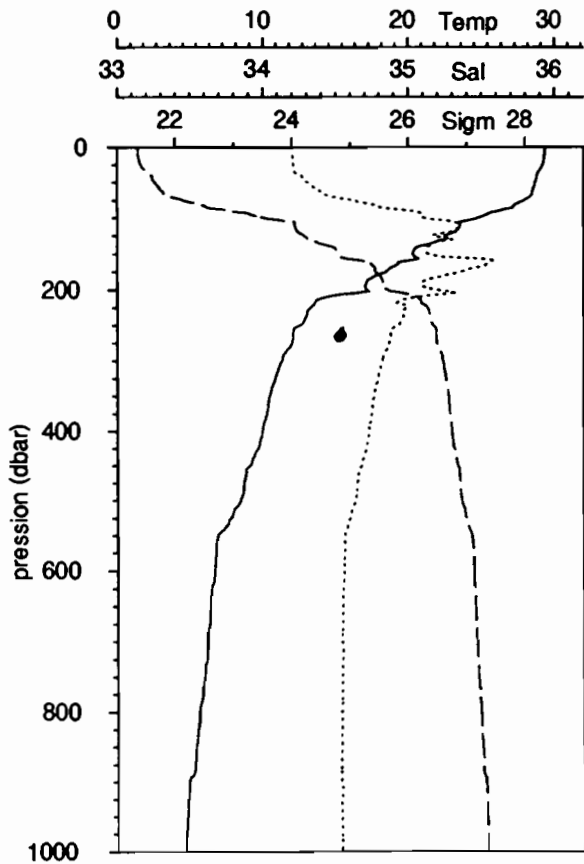
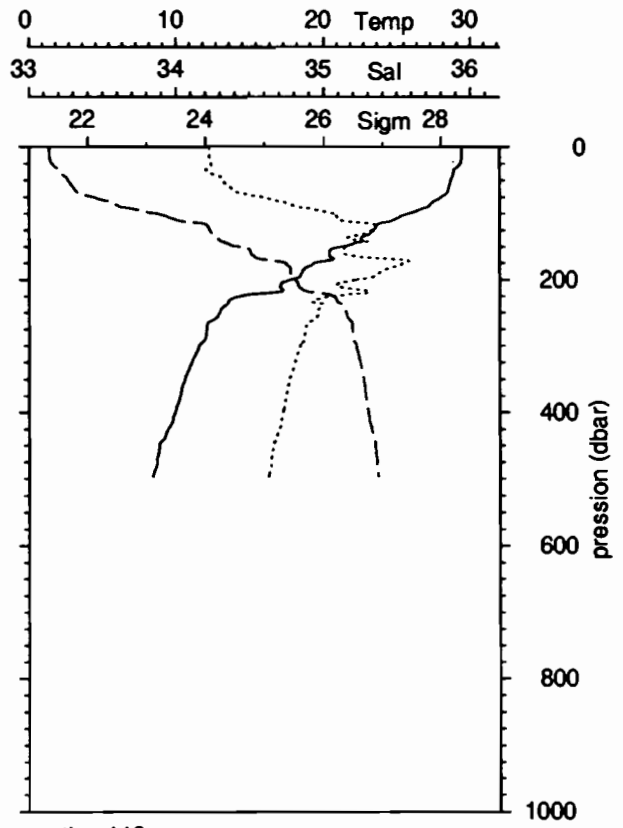
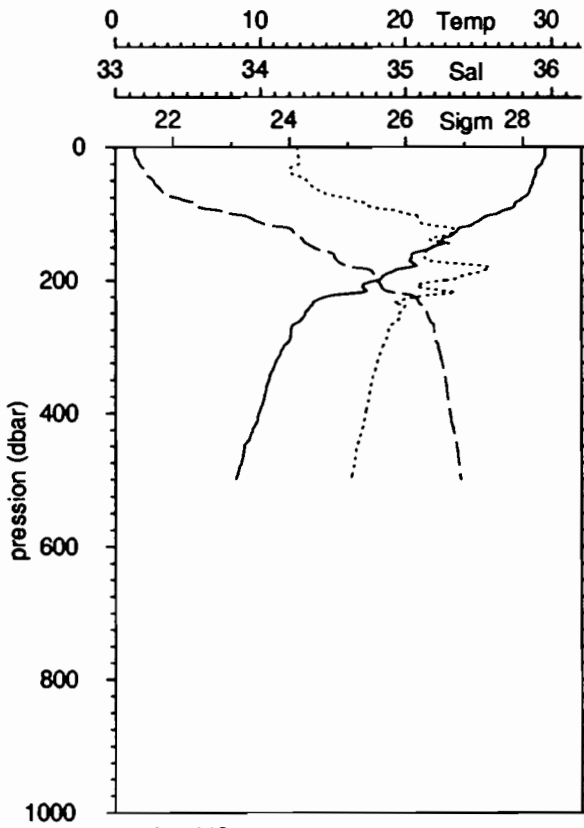
— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



# EQUALIS

stations 112 113  
114 115

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>

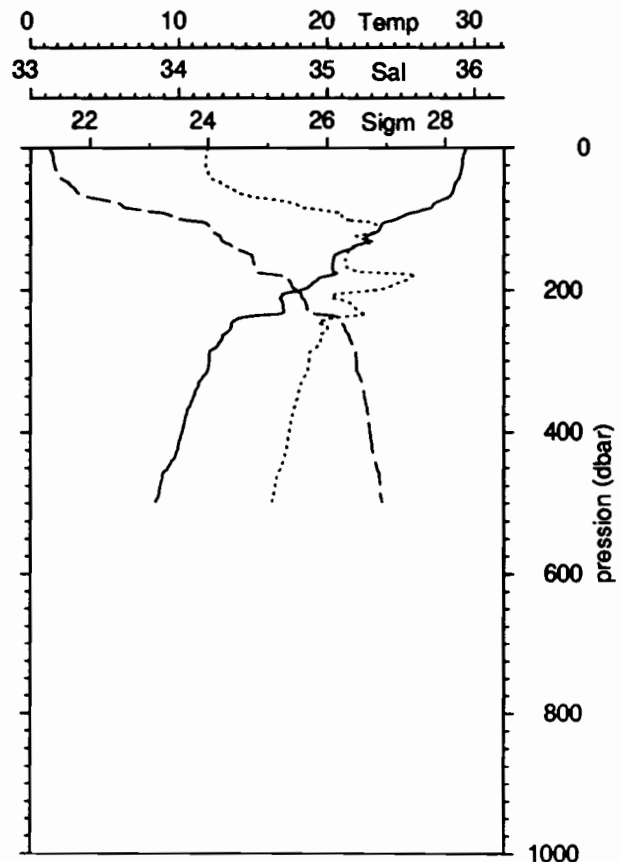
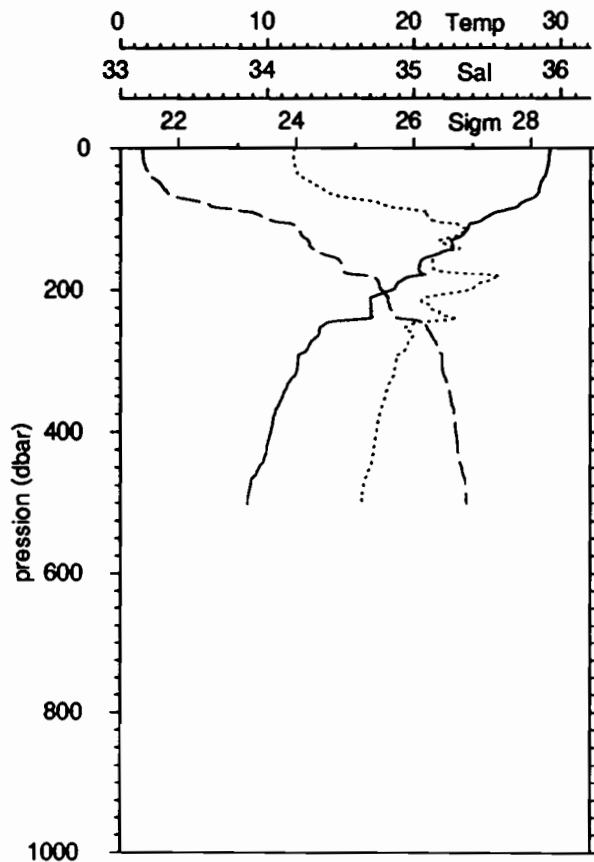
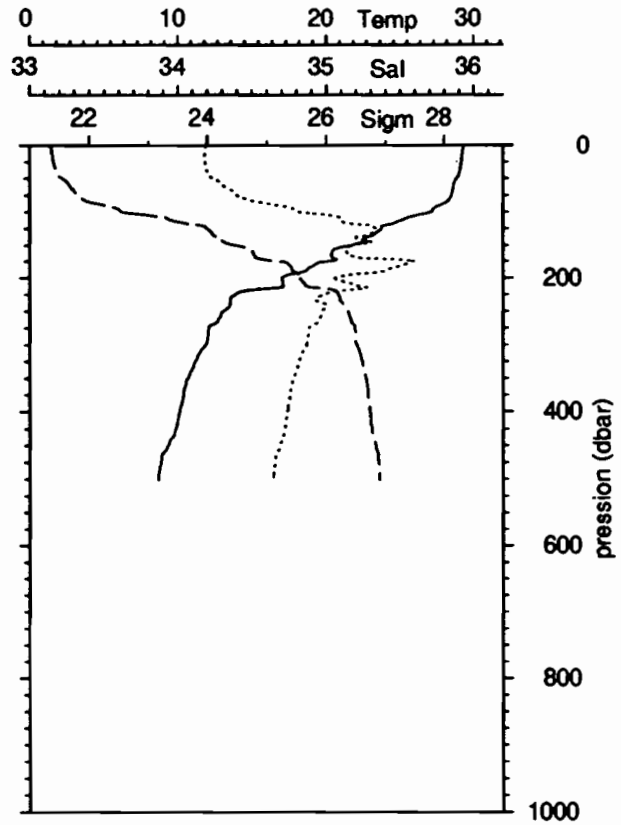
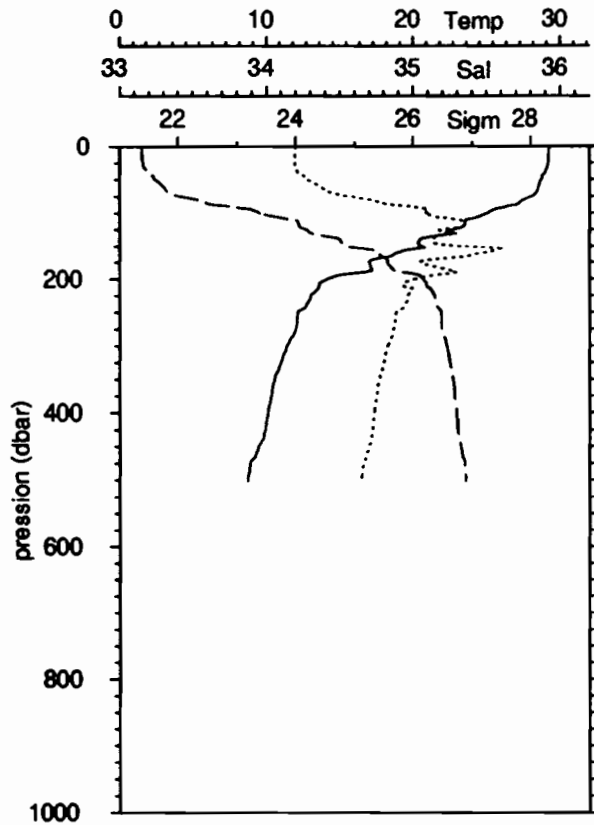


# EQUALIS

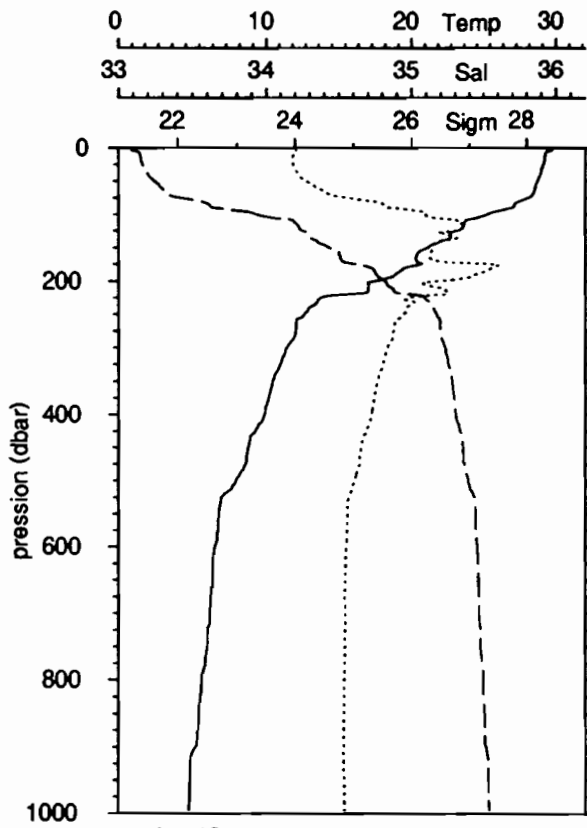
stations 117 118

119 120

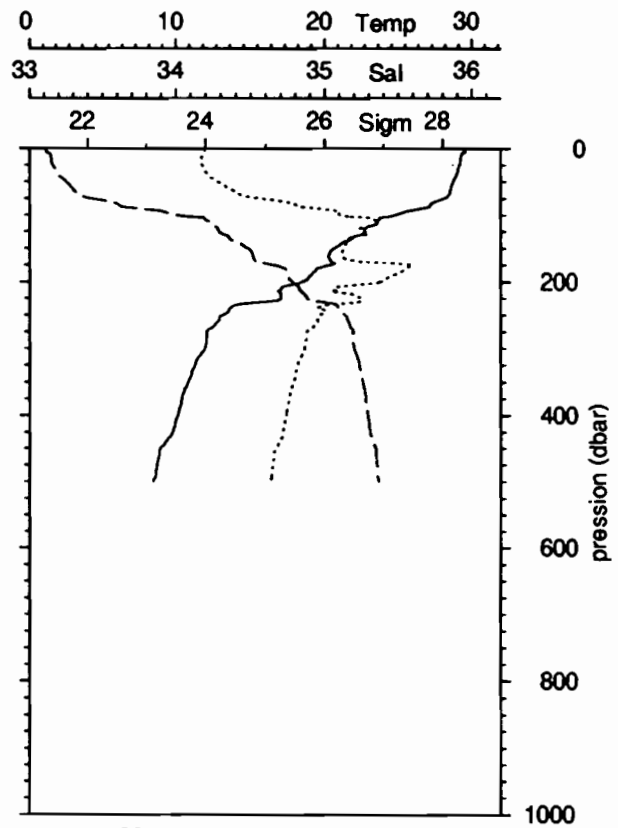
— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



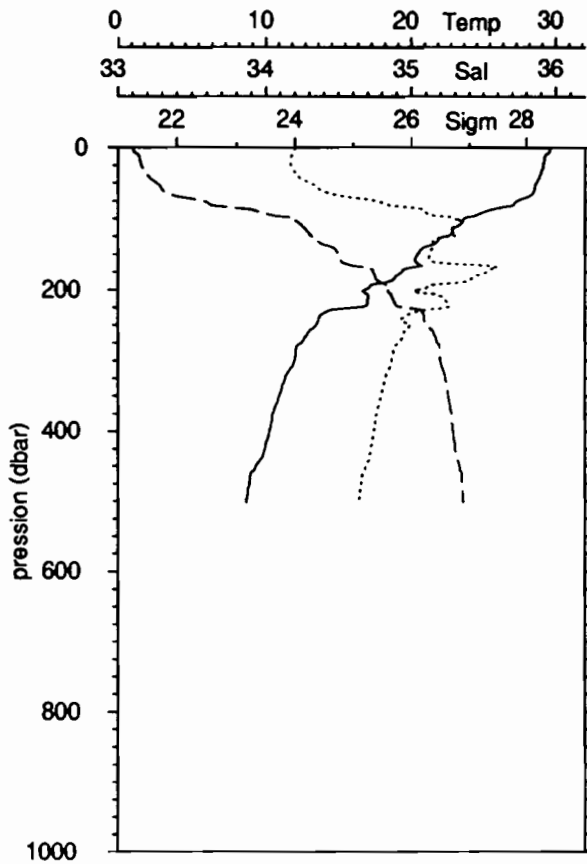
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



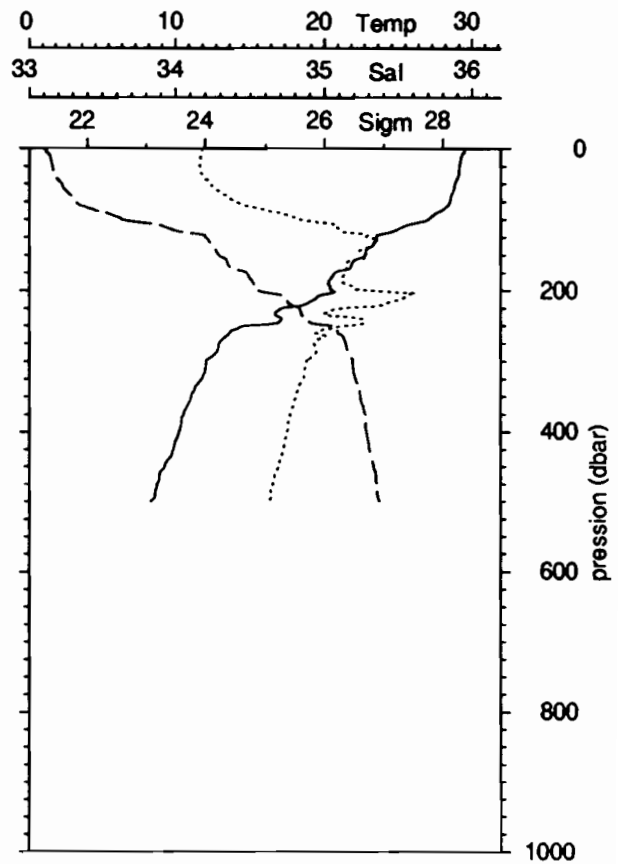
station 121  
21/11/92, 7h 0 TU  
1°30 S 156°15 E



station 122  
21/11/92, 8h 0 TU  
1°30 S 156°15 E



station 123  
21/11/92, 10h 7 TU  
1°30 S 156°15 E



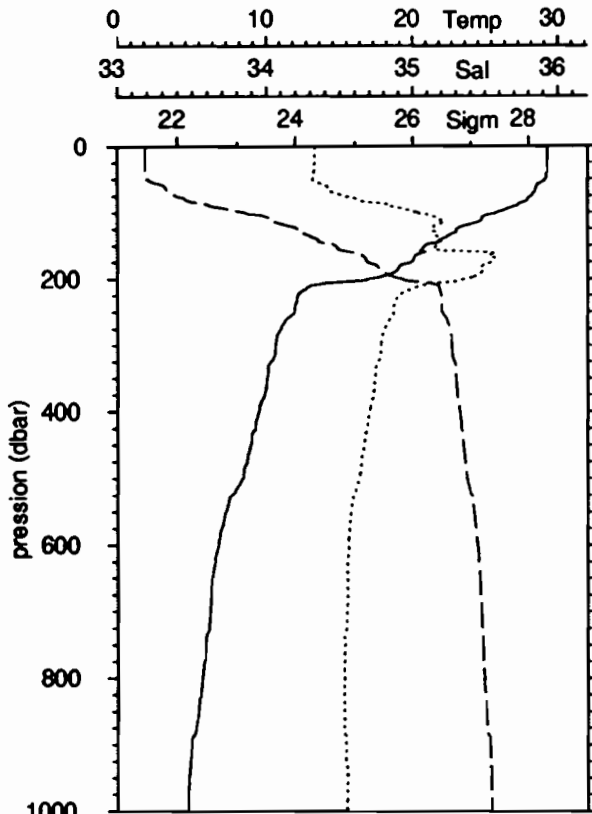
station 124  
21/11/92, 13h 1 TU  
1°30 S 156°15 E

# EQUALIS

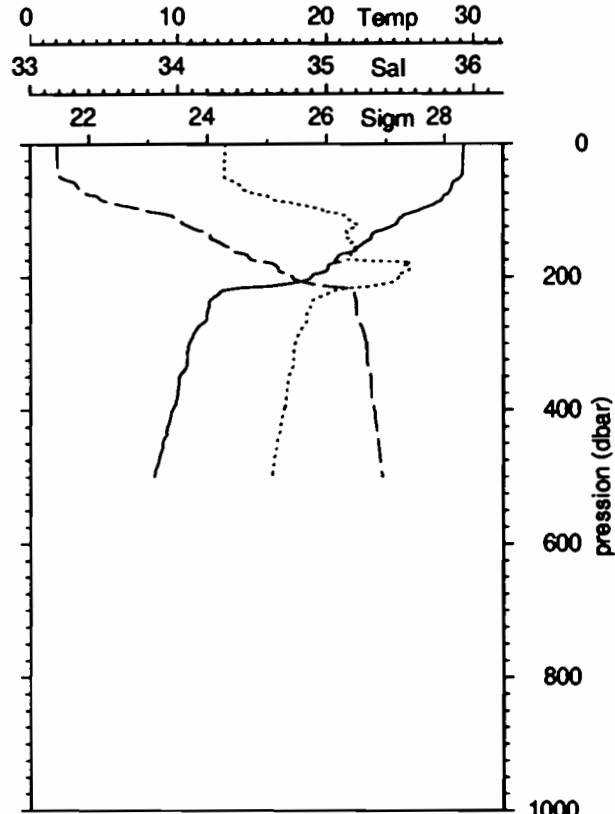
stations 125 127

128 129

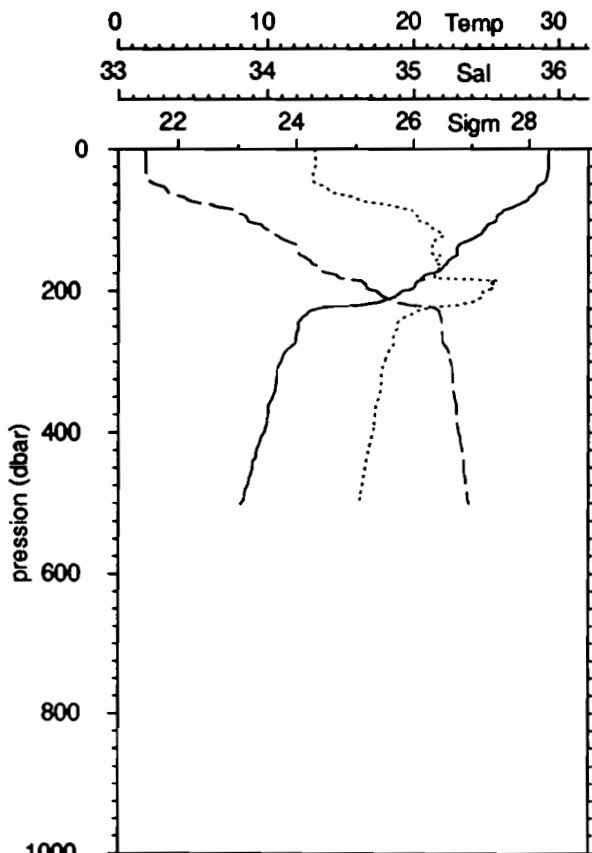
— temperature: °C      ..... salinite      - - - - sigma theta: kg/m<sup>3</sup>



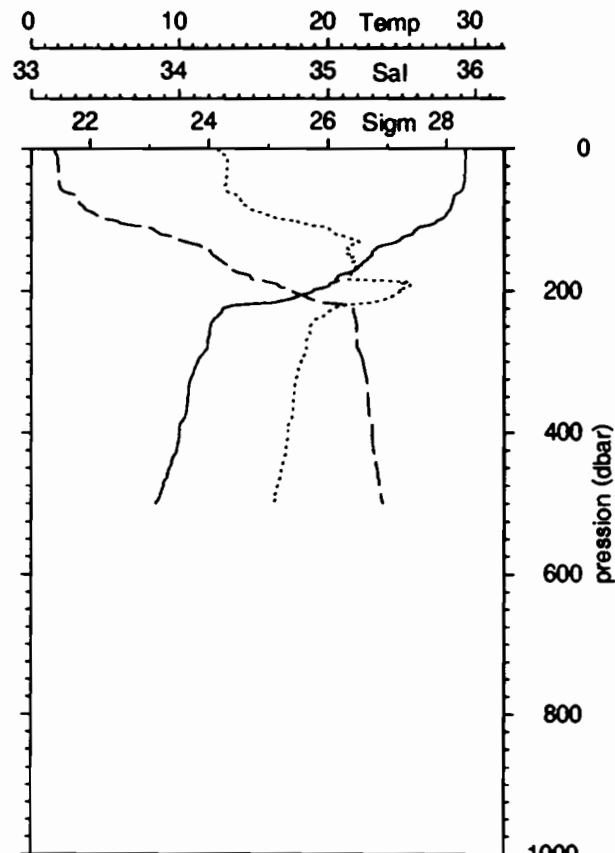
station 125  
26/11/92, 19h14 TU  
1°45 S 156°10 E



station 127  
26/11/92, 20h36 TU  
1°45 S 156°10 E



station 128  
26/11/92, 22h 2 TU  
1°45 S 156°10 E



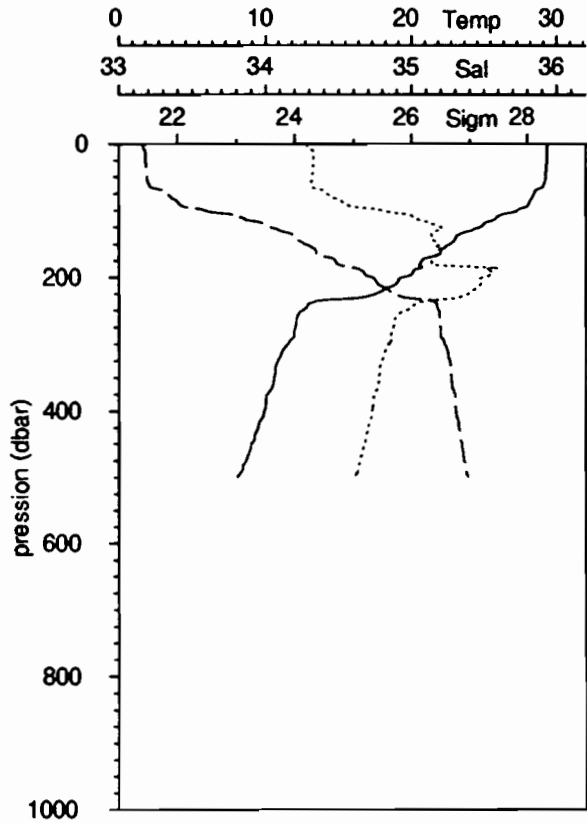
station 129  
27/11/92, 1h 3 TU  
1°45 S 156°10 E



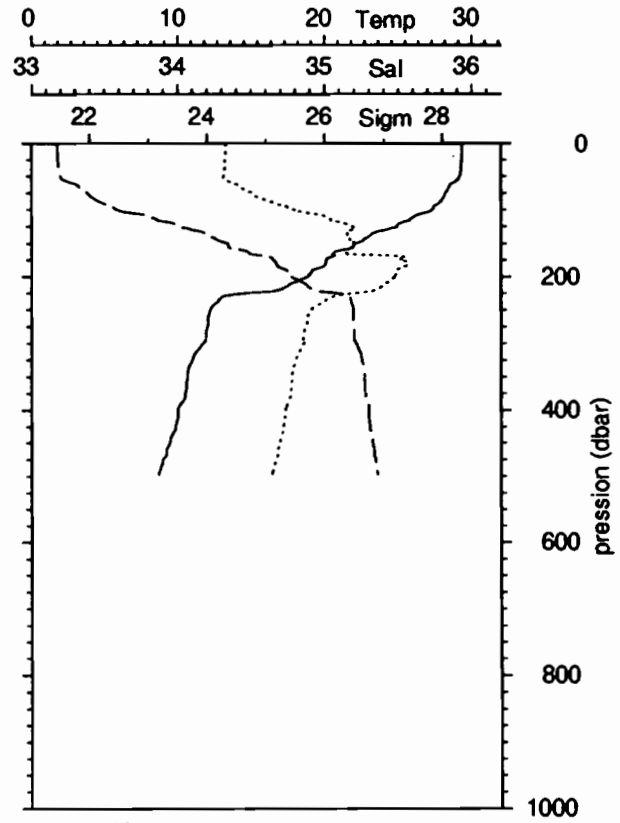
# EQUALIS

stations 130 131  
132 133

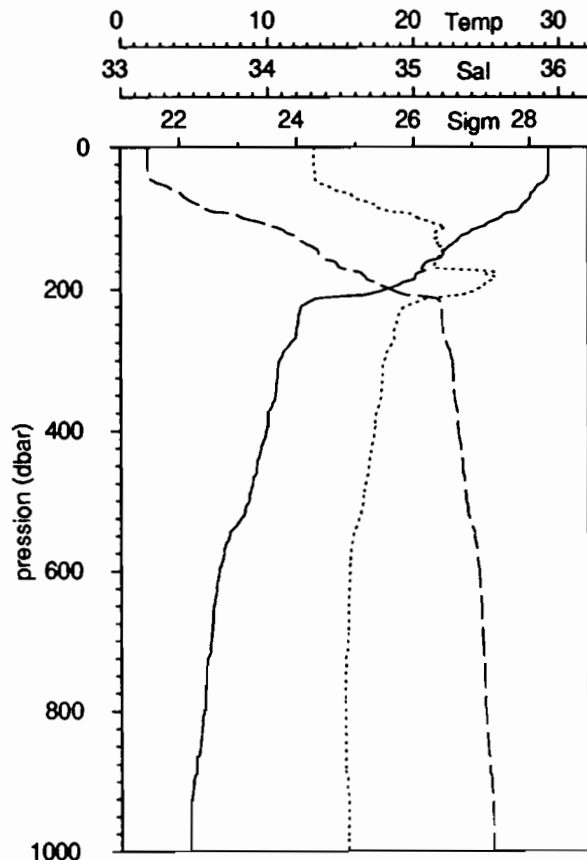
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



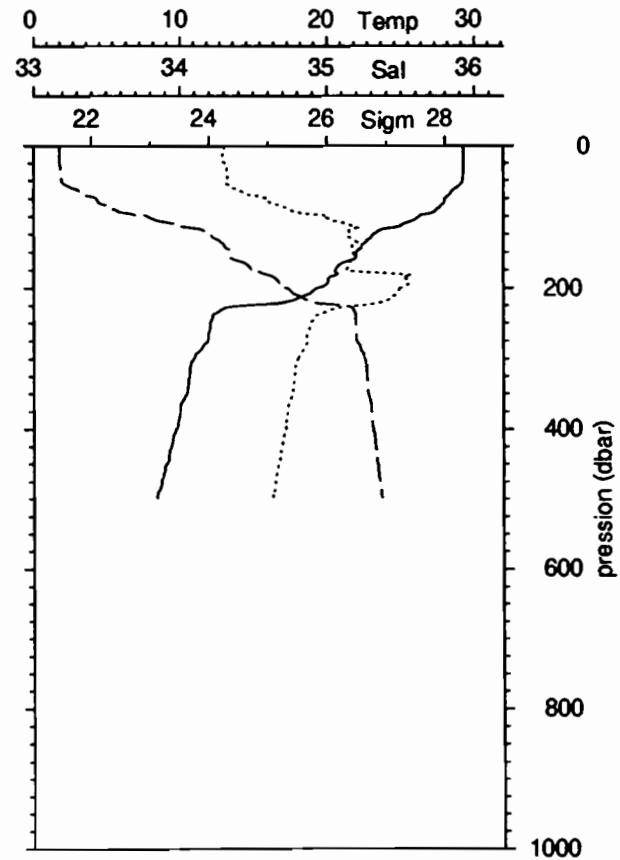
station 130  
27/11/92, 2h 8 TU  
1°45 S 156°10 E



station 131  
27/11/92, 4h 0 TU  
1°45 S 156°10 E



station 132  
27/11/92, 7h 4 TU  
1°45 S 156°10 E



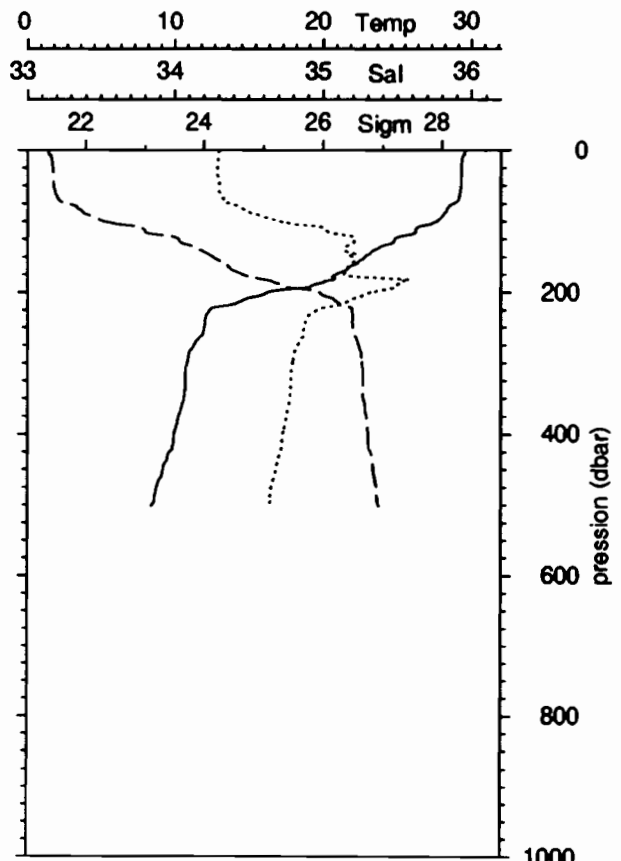
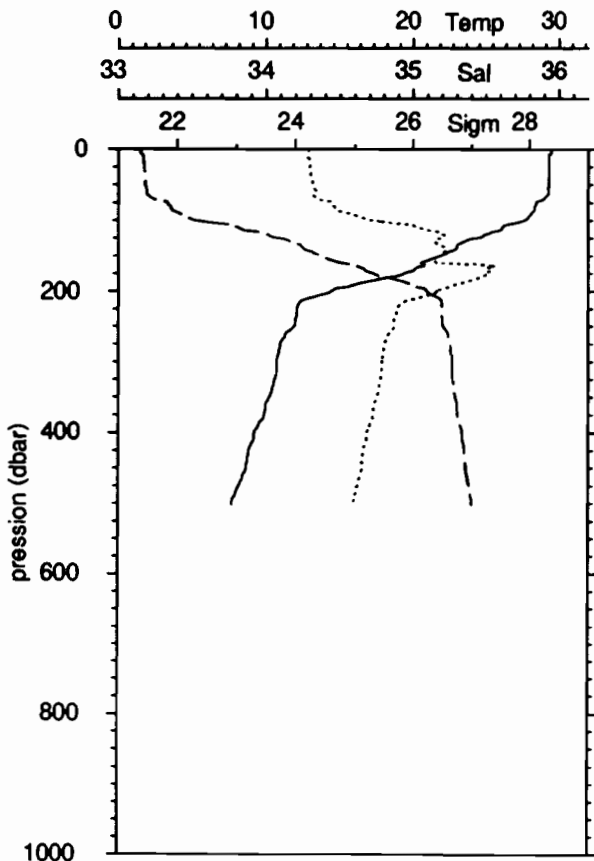
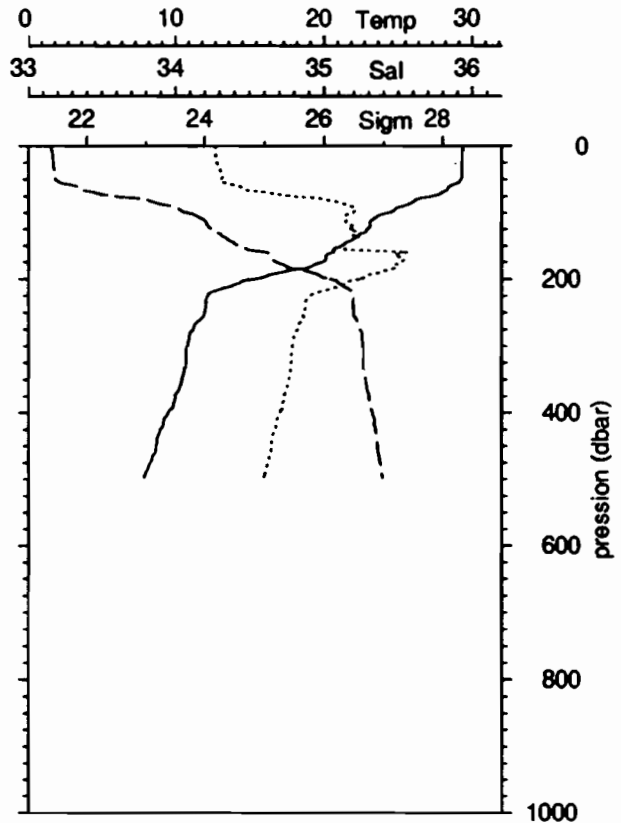
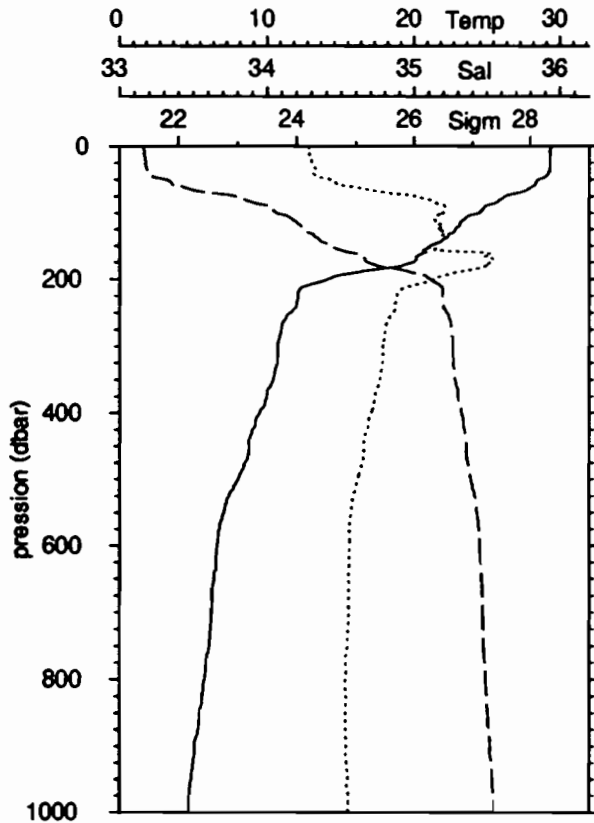
station 133  
27/11/92, 8h18 TU  
1°45 S 156°10 E

# EQUALIS

stations 134 135

137 138

— temperature: °C      ..... salinite      - - - sigma theta: kg/m3

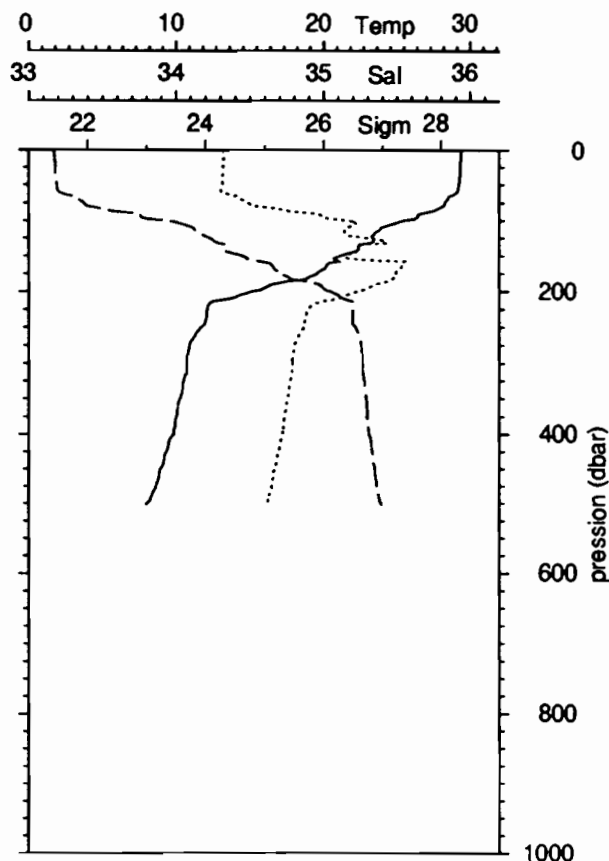
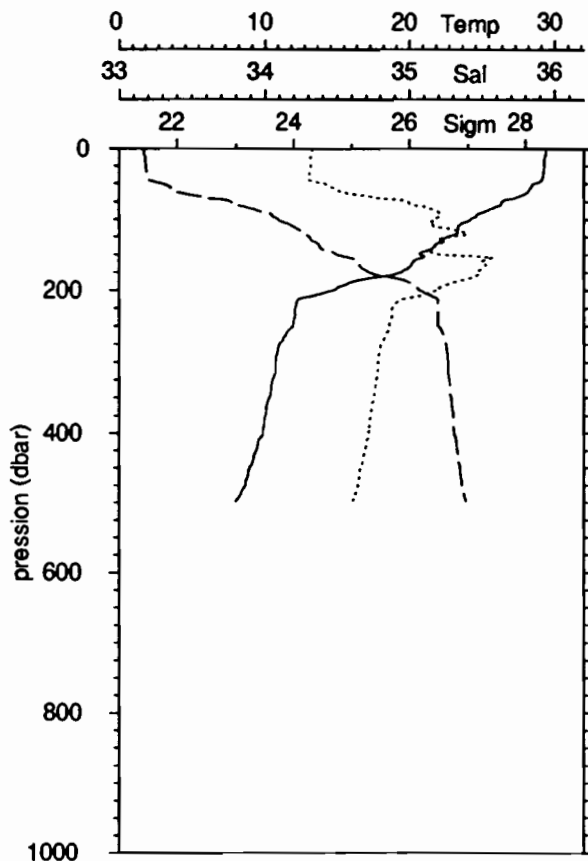
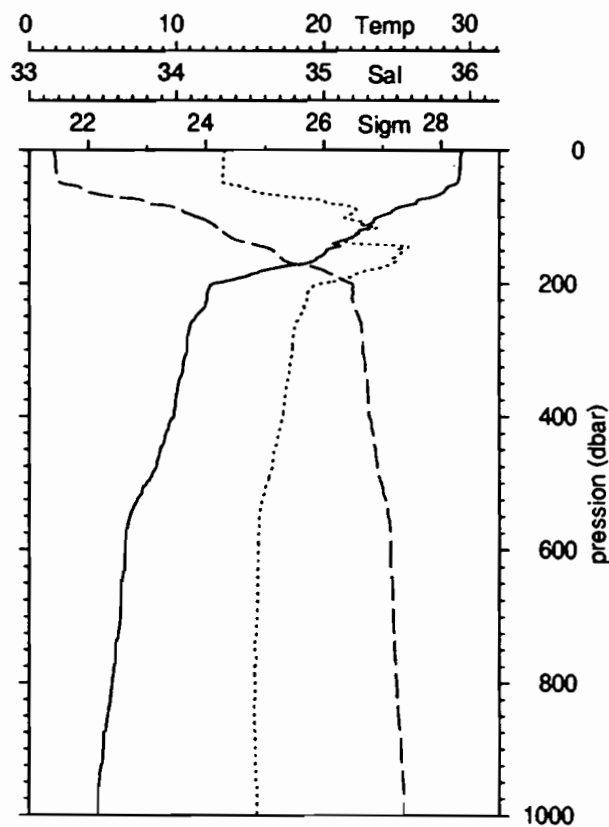
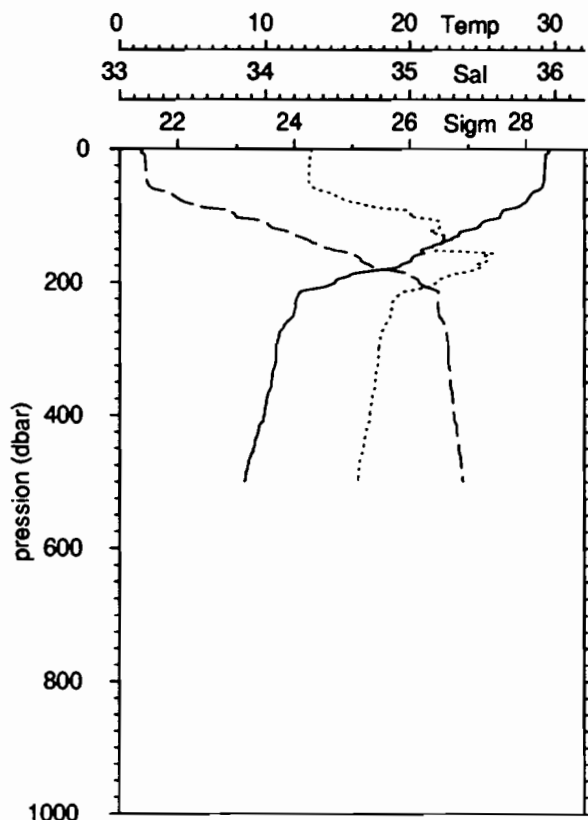


# EQUALIS

stations 139 140

141 142

— temperature: °C      ..... salinity      - - - sigma theta: kg/m<sup>3</sup>

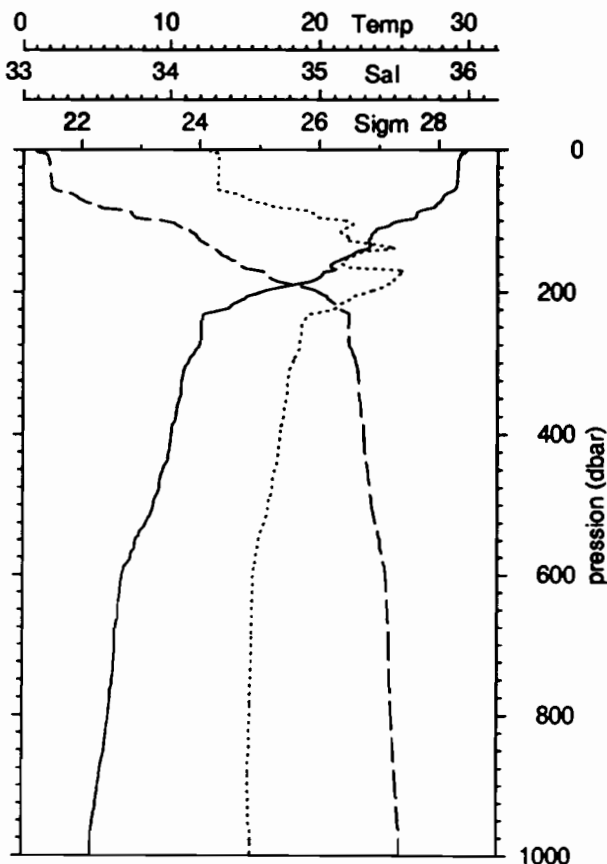
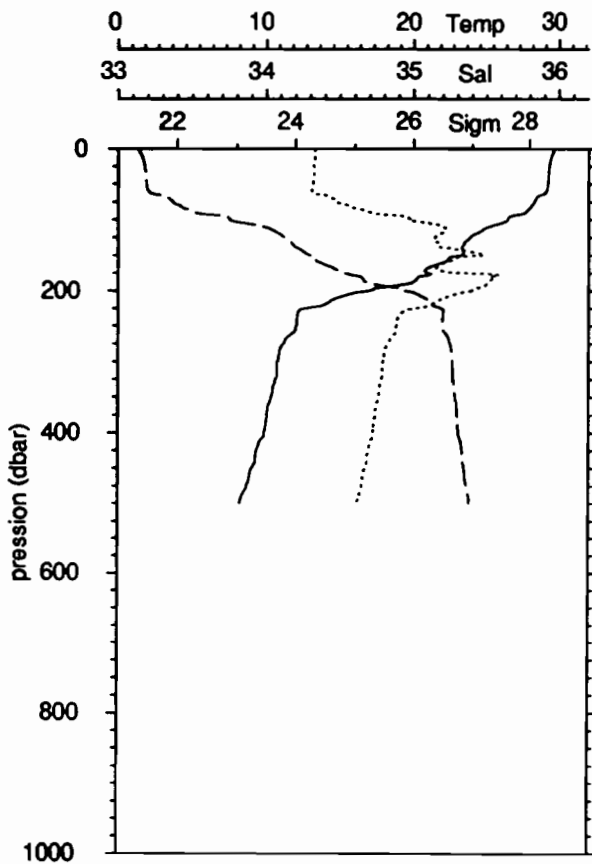
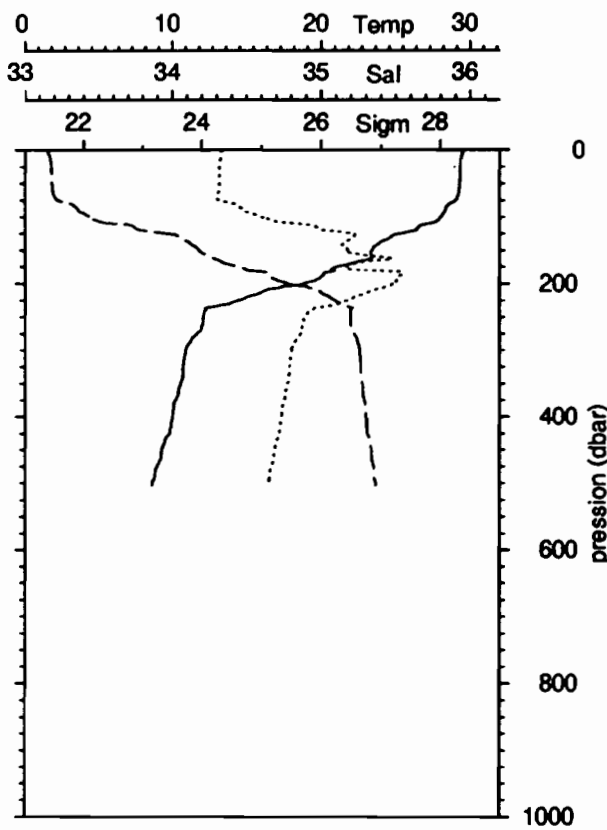
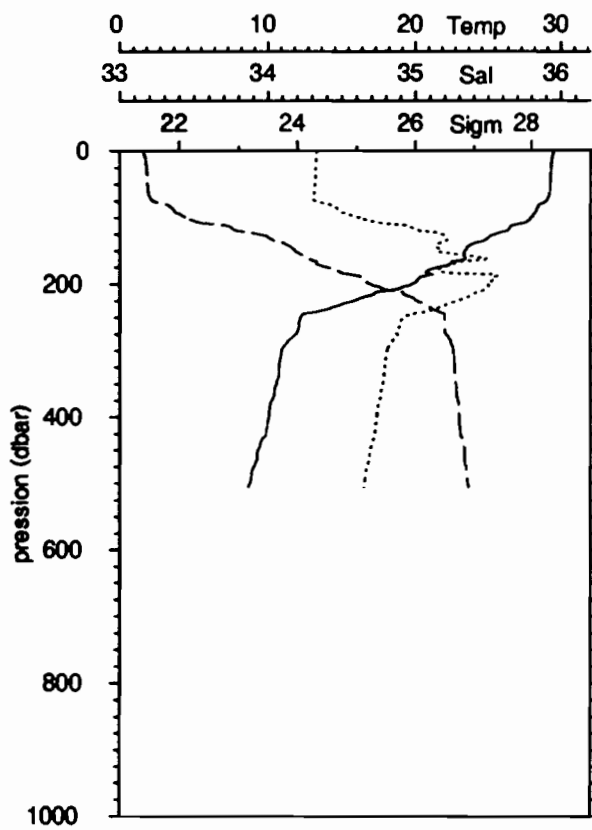


# EQUALIS

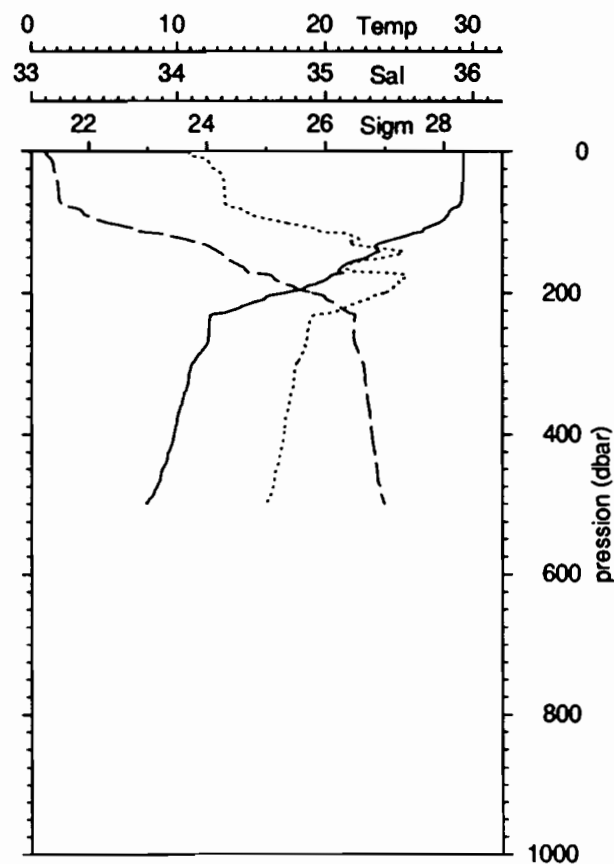
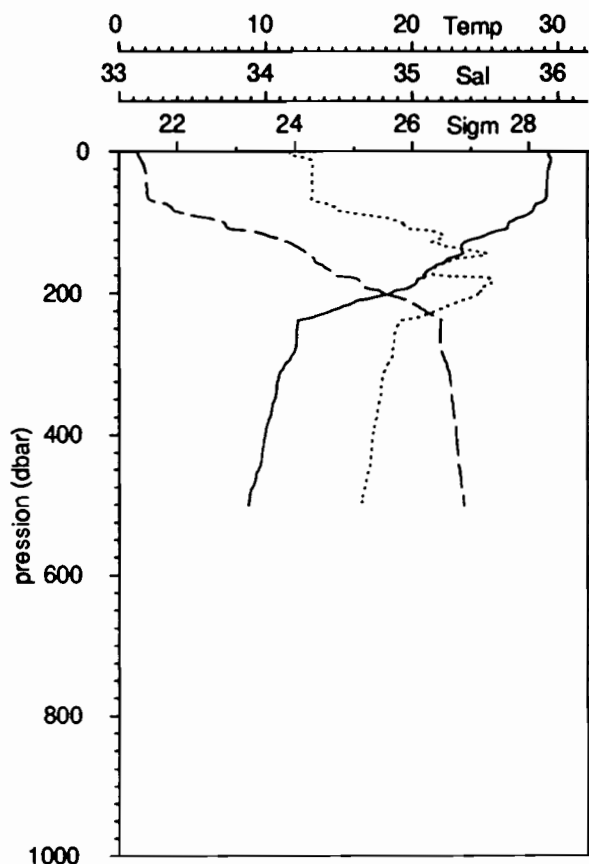
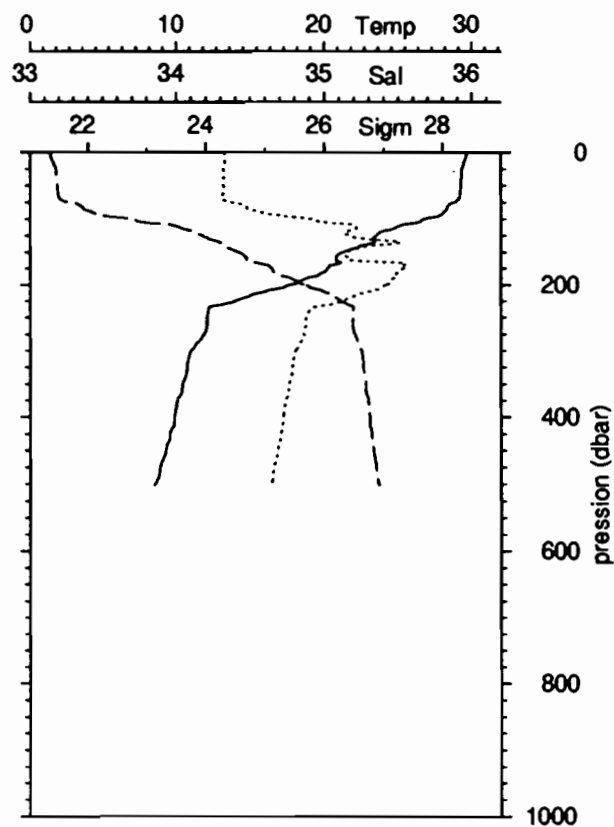
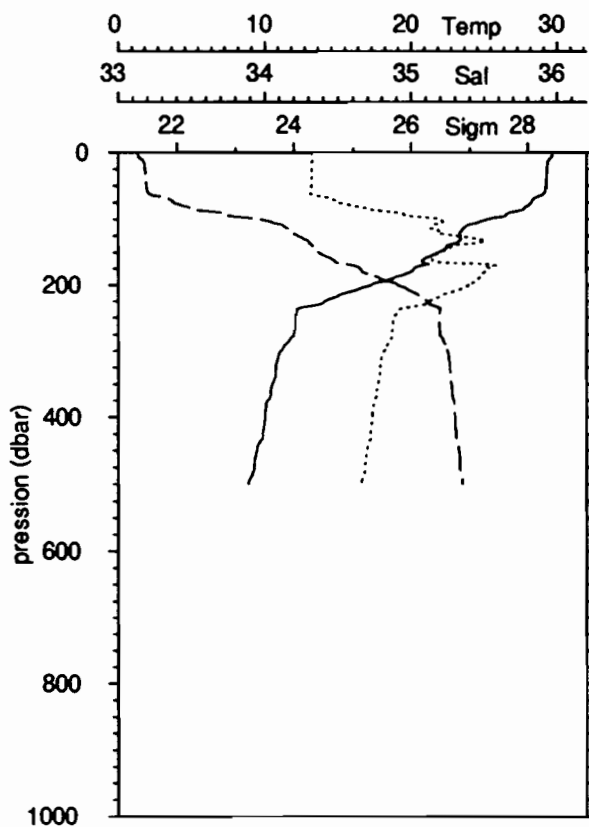
stations 143 144

145 147

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



# EQUALIS

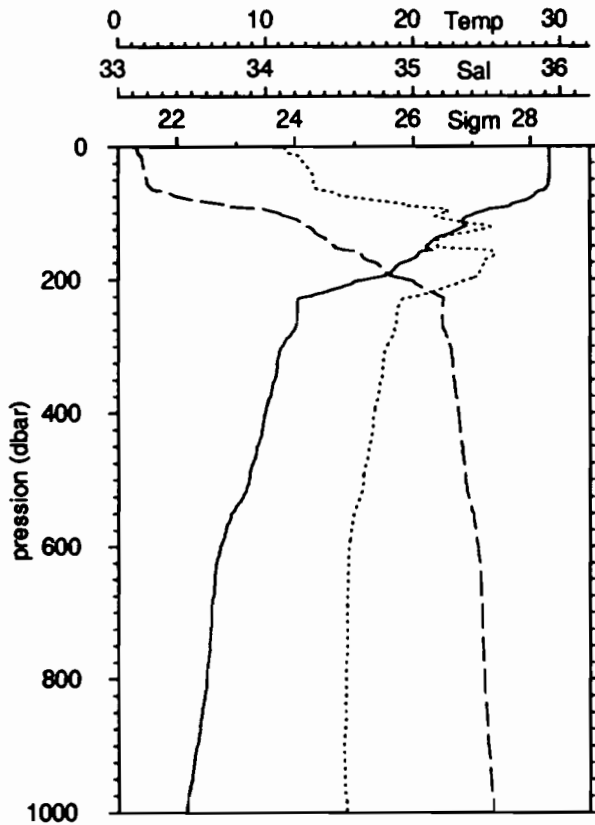
stations 152 153

154 155

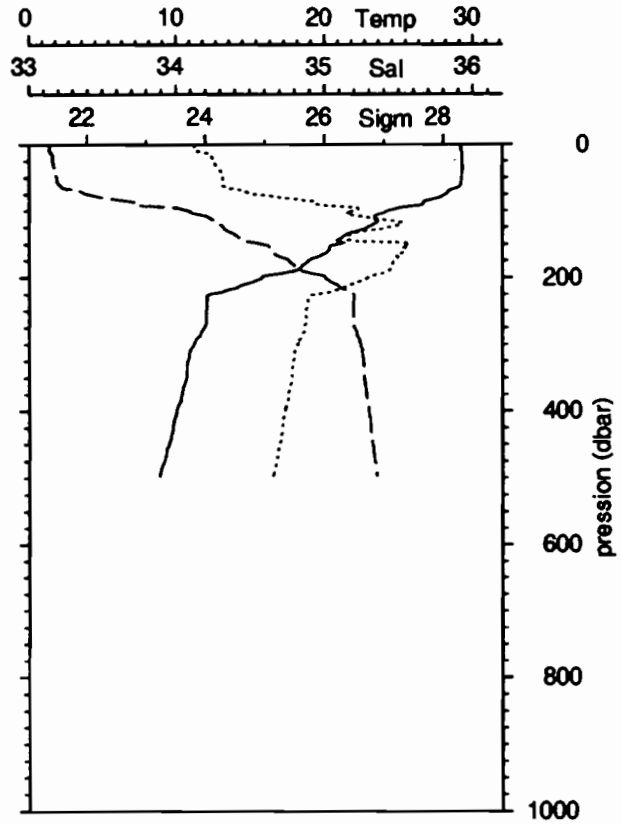
— temperature: °C

..... salinite

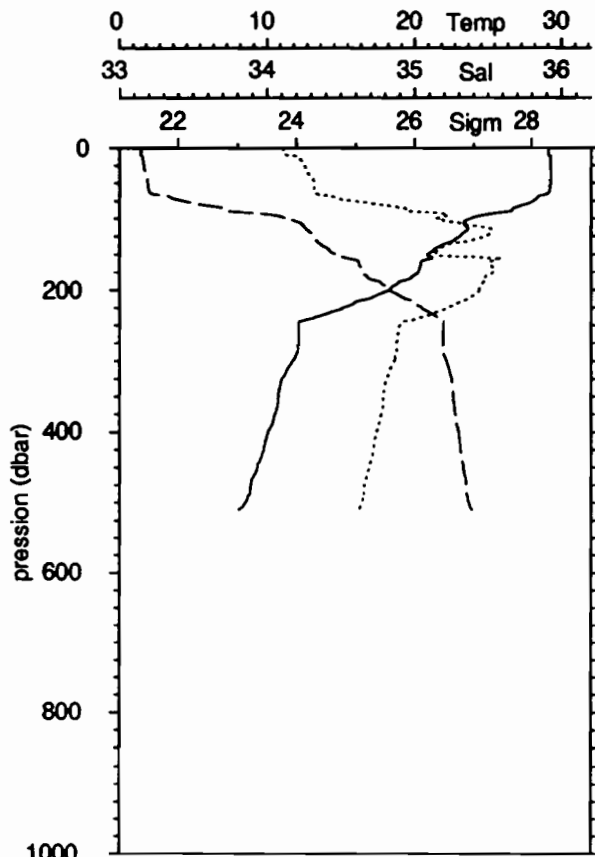
- - - sigma theta: kg/m<sup>3</sup>



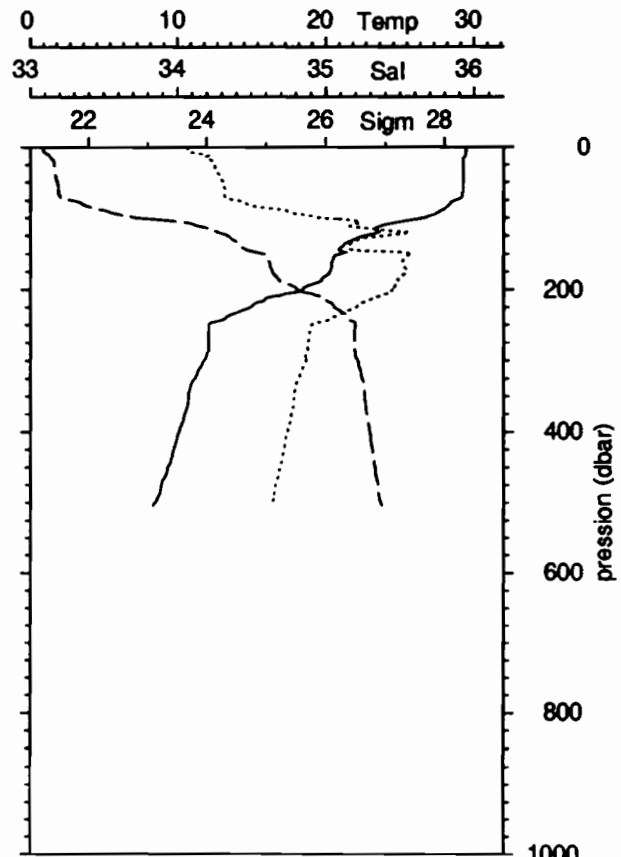
station 152  
29/11/92, 19h 5 TU  
1°45 S 156°10 E



station 153  
29/11/92, 20h10 TU  
1°45 S 156°10 E



station 154  
29/11/92, 22h 6 TU  
1°45 S 156°10 E



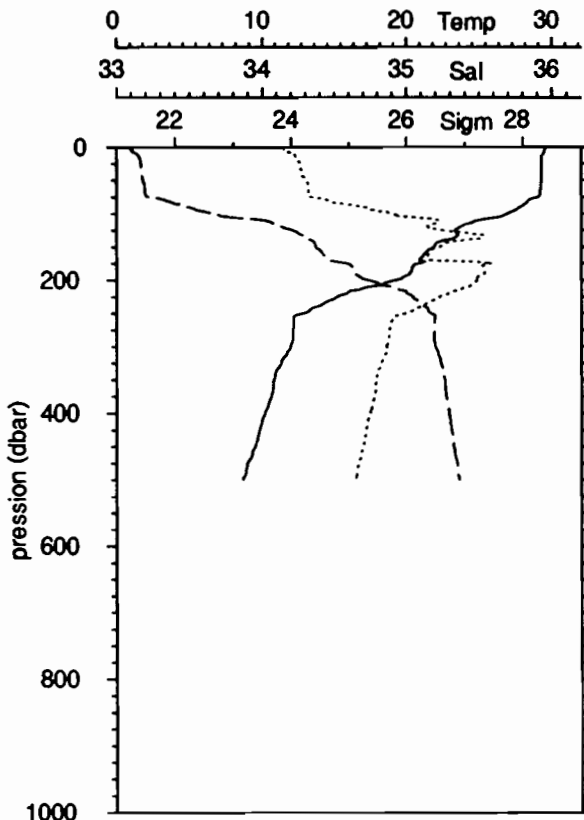
station 155  
30/11/92, 1h 0 TU  
1°45 S 156°10 E

# EQUALIS

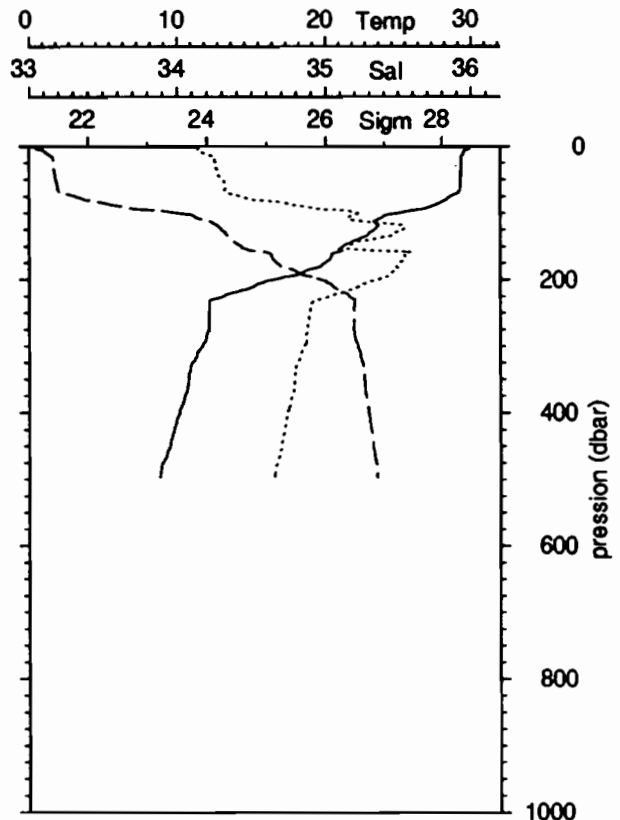
stations 157 158

159 170

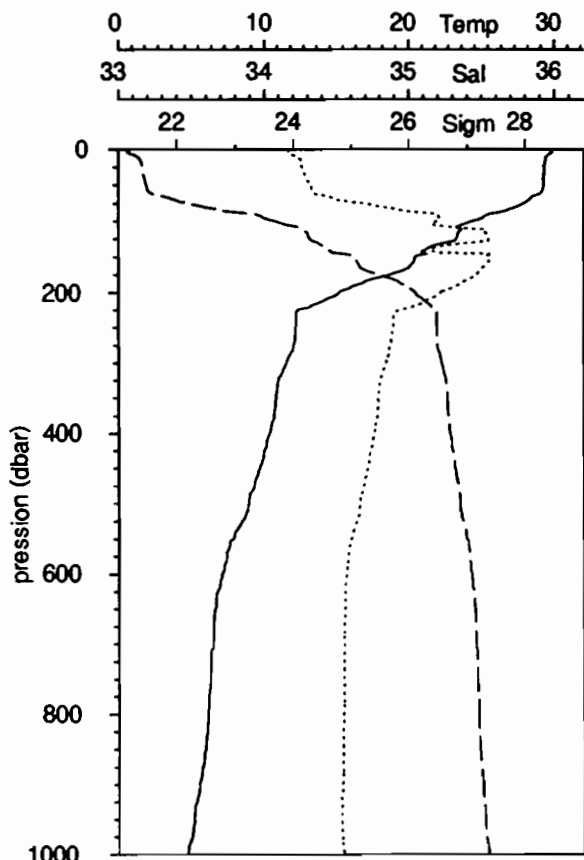
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



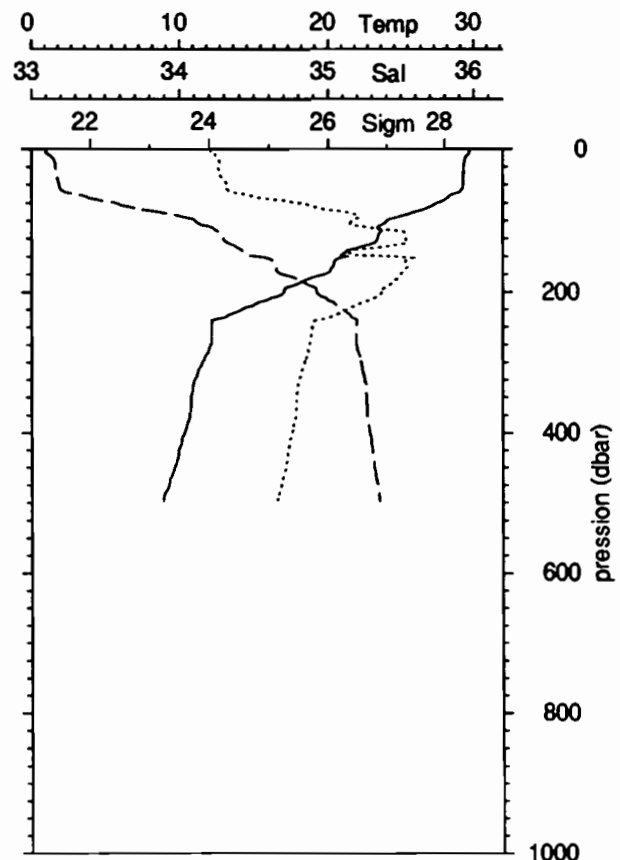
station 157  
30/11/92, 1h47 TU  
1°45 S 156°10 E



station 158  
30/11/92, 4h 0 TU  
1°45 S 156°10 E



station 159  
30/11/92, 7h 1 TU  
1°45 S 156°10 E



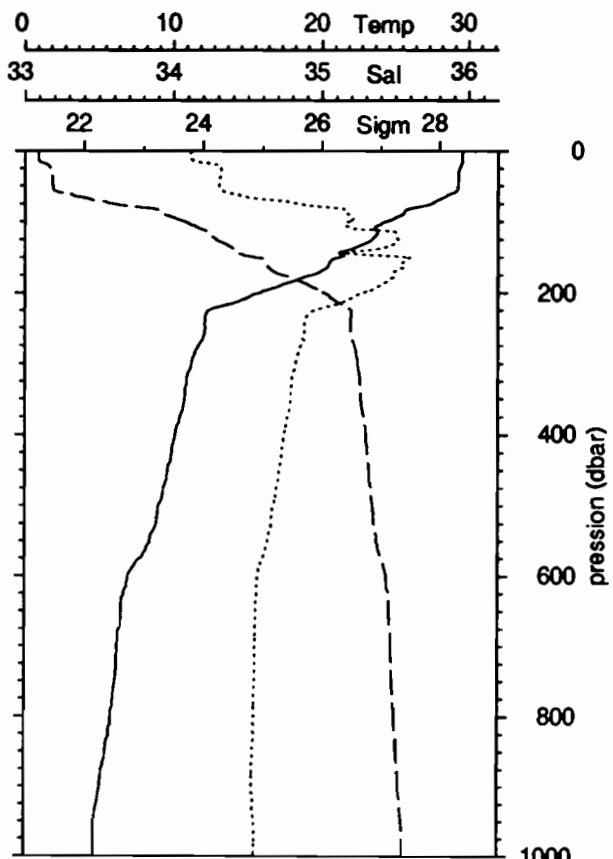
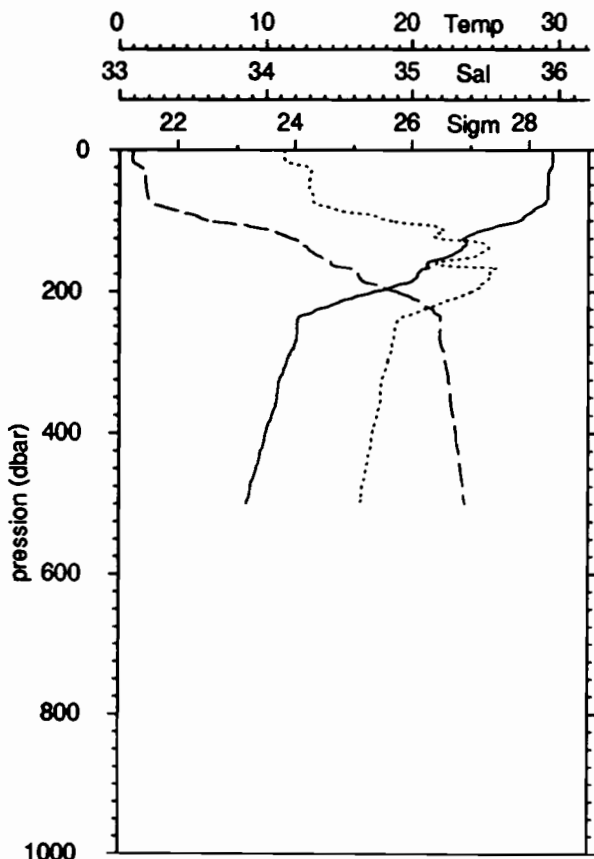
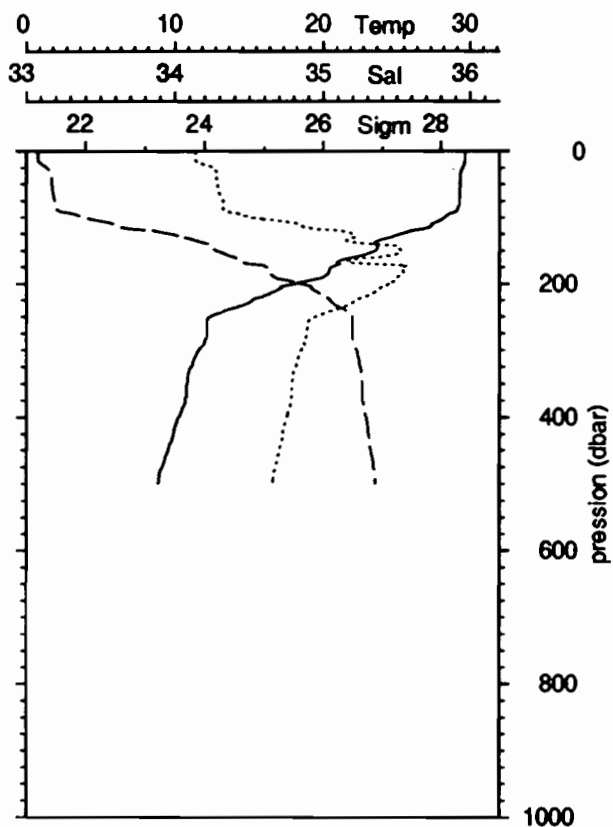
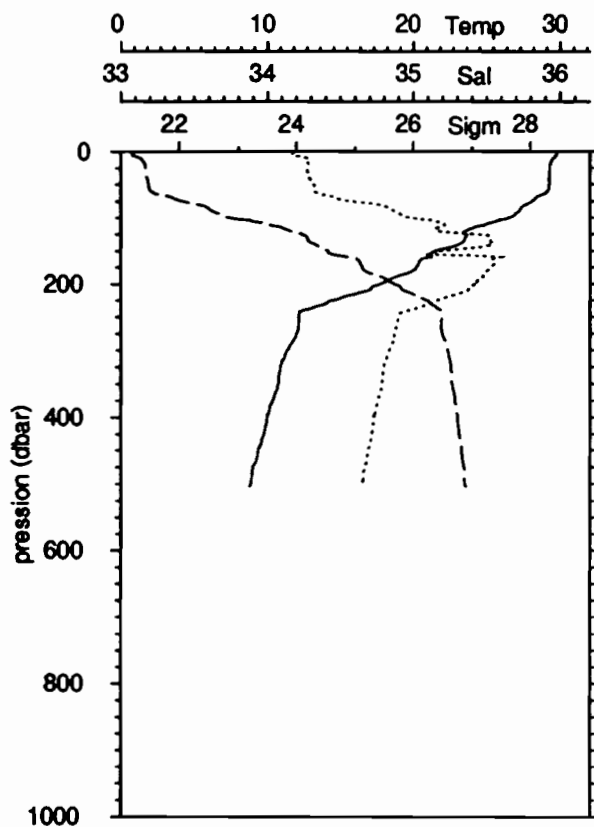
station 170  
30/11/92, 8h10 TU  
1°45 S 156°10 E

# EQUALIS

stations 171 172

173 174

— temperature: °C      ..... salinite      - - - sigma theta: kg/m3





# EQUALIS

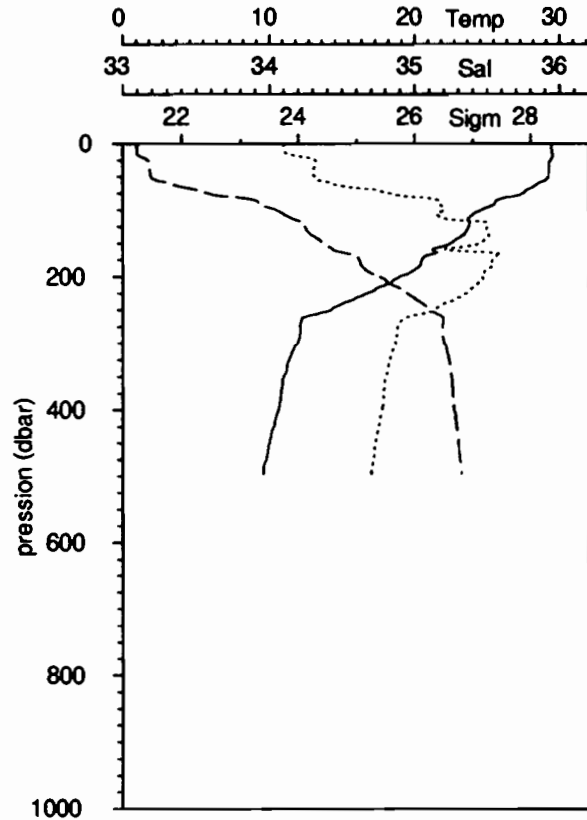
stations 175 177

178 179

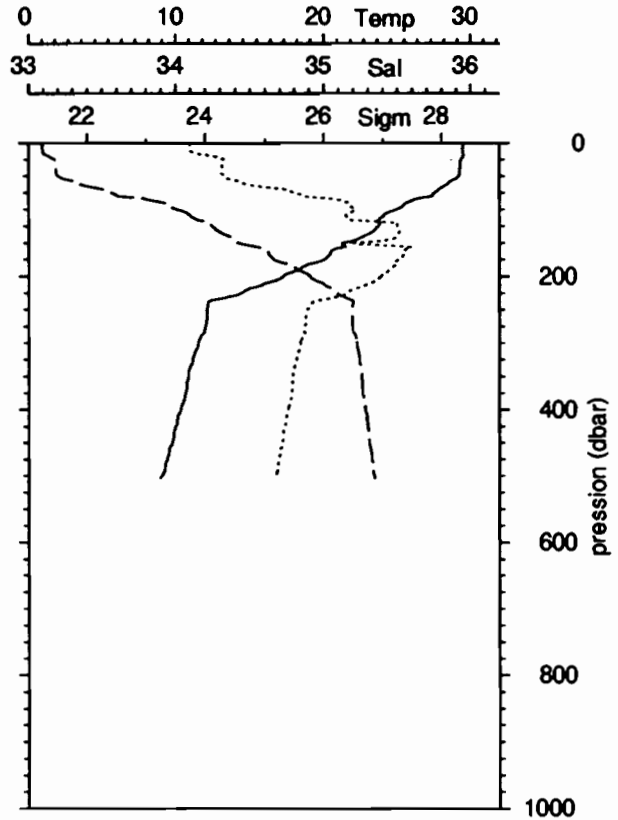
— temperature: °C

..... salinite

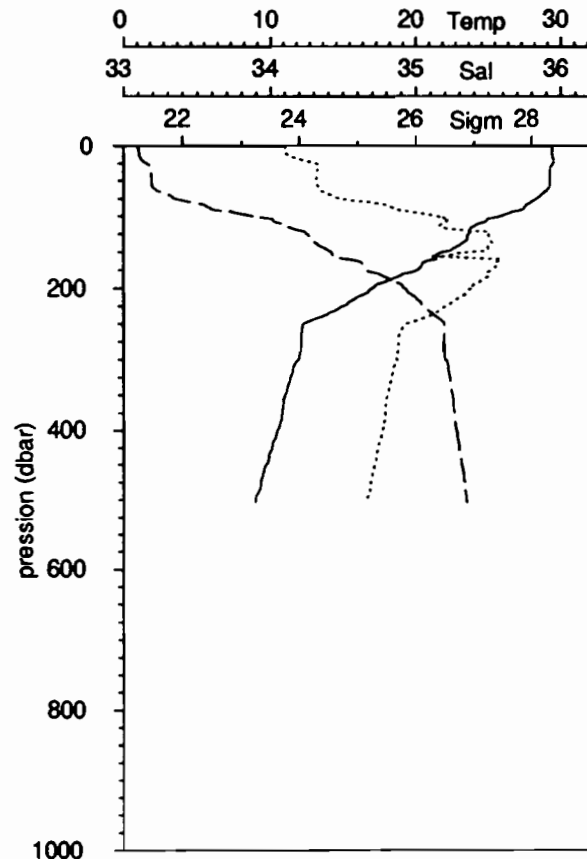
- - - sigma theta: kg/m3



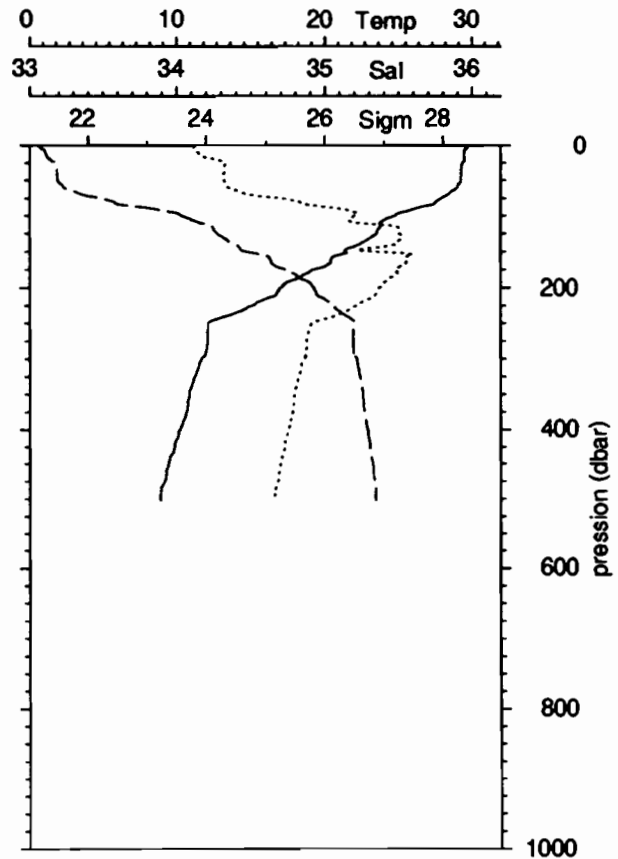
station 175  
30/11/92, 20h11 TU  
1°45 S 156°10 E



station 177  
30/11/92, 22h 2 TU  
1°45 S 156°10 E



station 178  
1/12/92, 1h 0 TU  
1°45 S 156°10 E

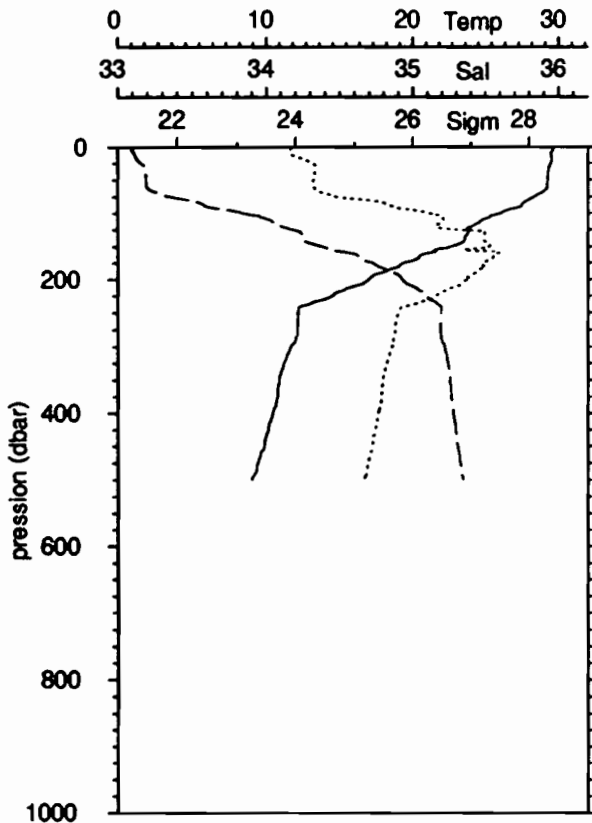


station 179  
1/12/92, 1h43 TU  
1°45 S 156°10 E

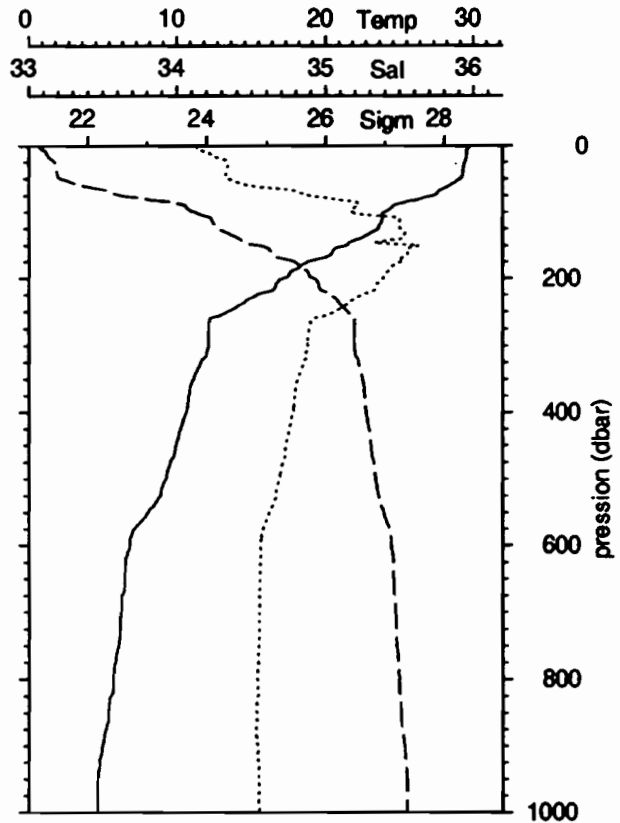
# EQUALIS

stations 180 181  
182 183

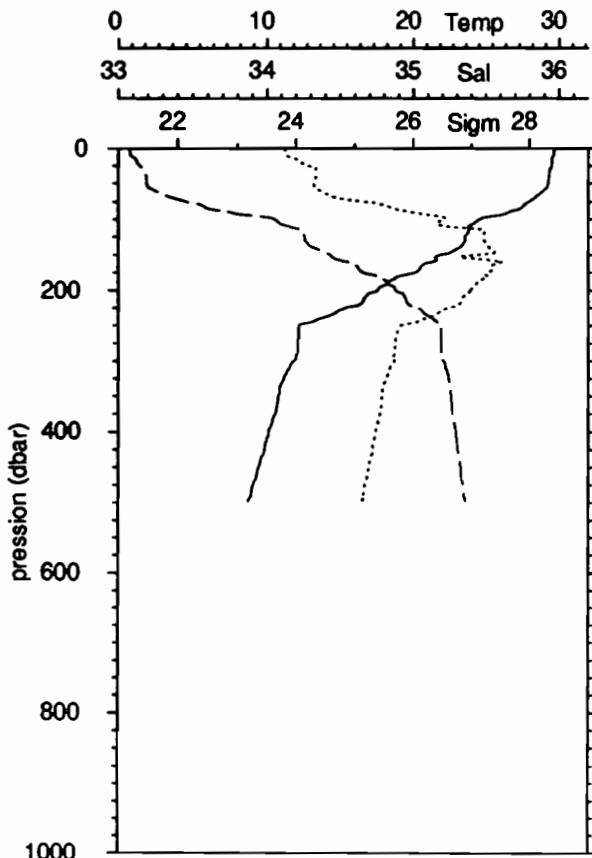
— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



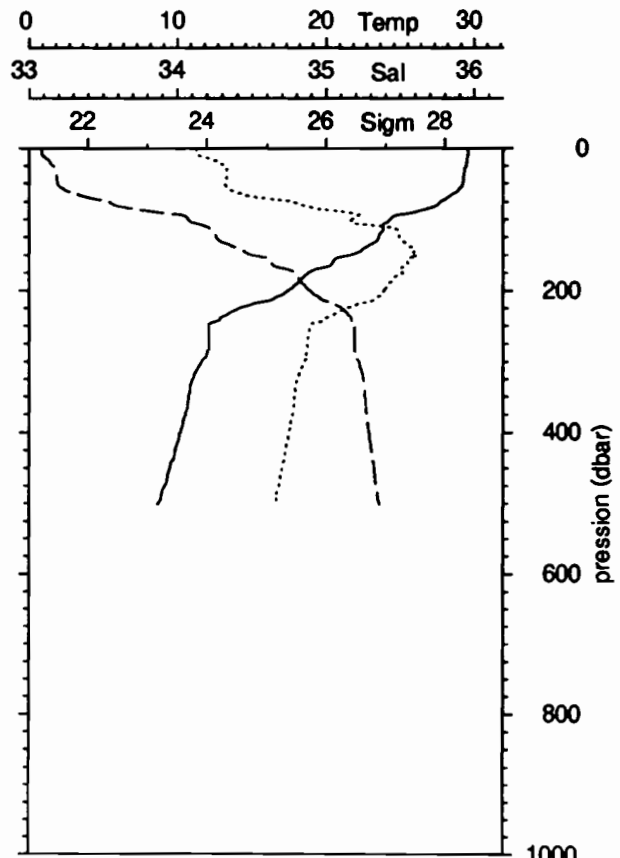
station 180  
1/12/92, 4h 0 TU  
1°45 S 156°10 E



station 181  
1/12/92, 7h 2 TU  
1°45 S 156°10 E



station 182  
1/12/92, 8h 2 TU  
1°45 S 156°10 E

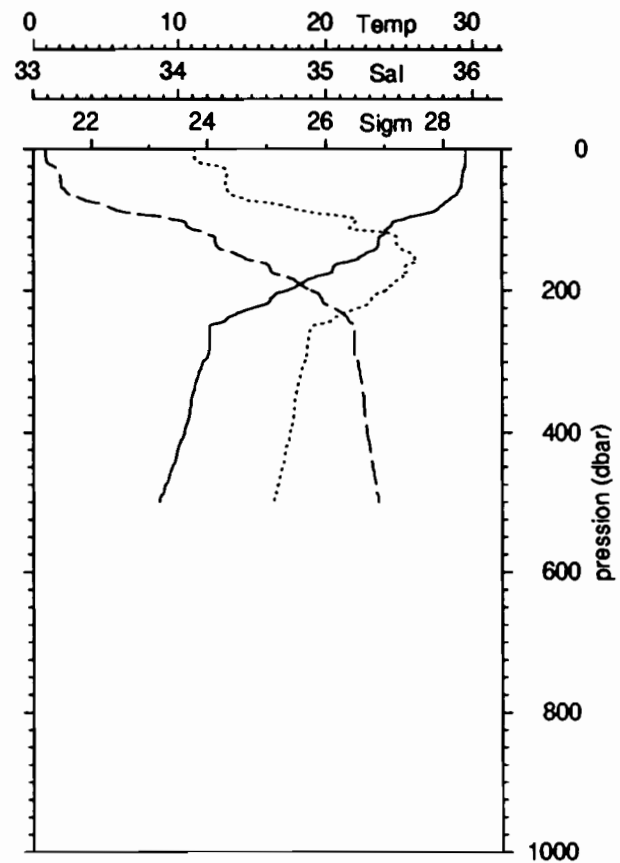
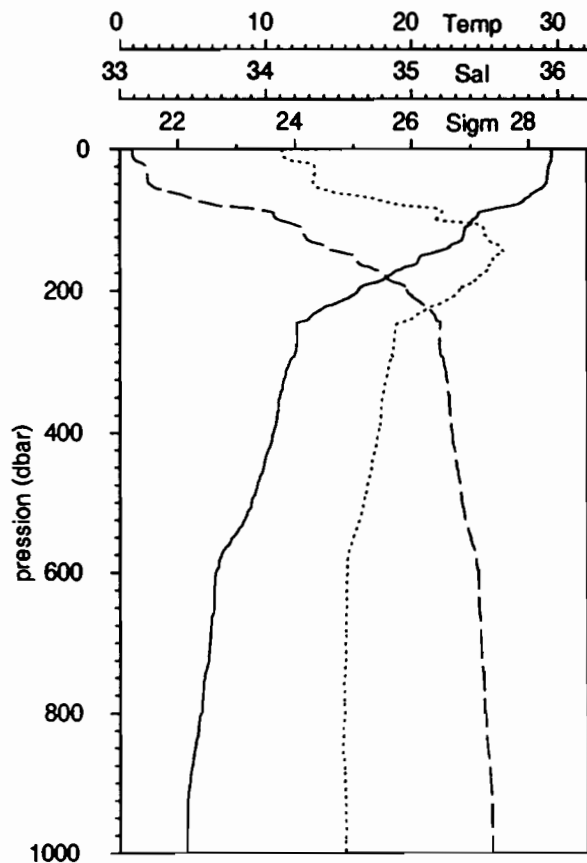
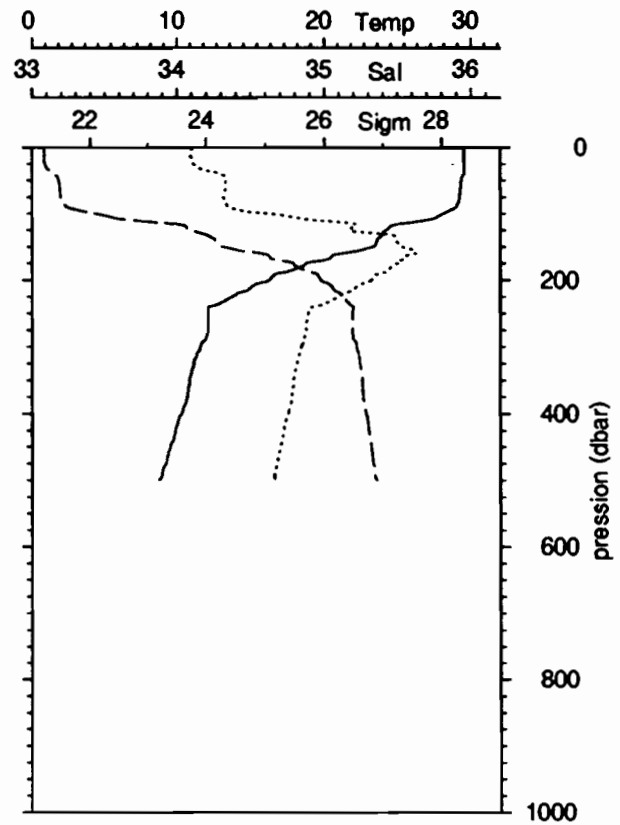
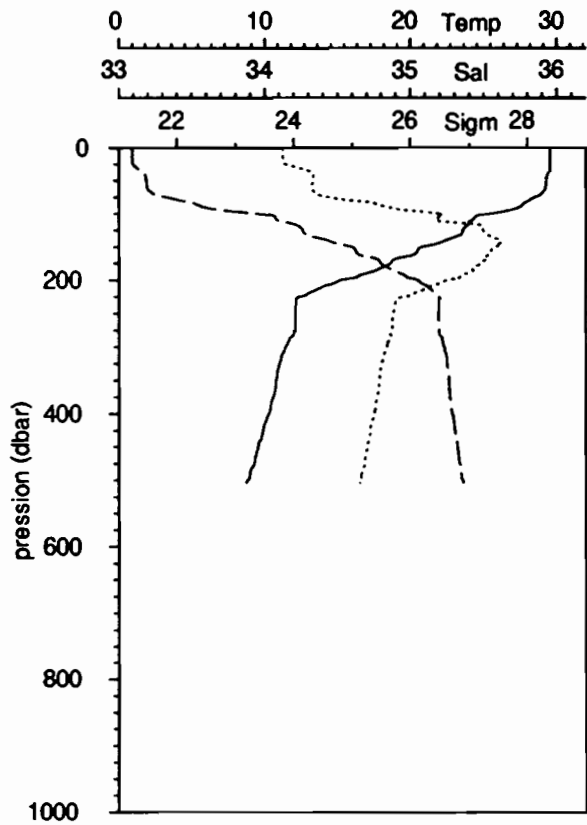


station 183  
1/12/92, 10h 2 TU  
1°45 S 156°10 E

# EQUALIS

stations 184 185  
187 188

— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>

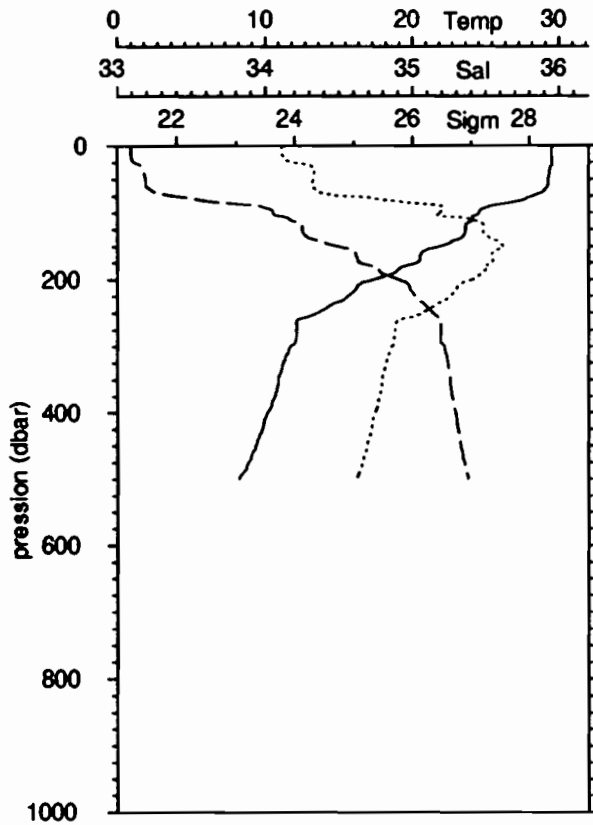


# EQUALIS

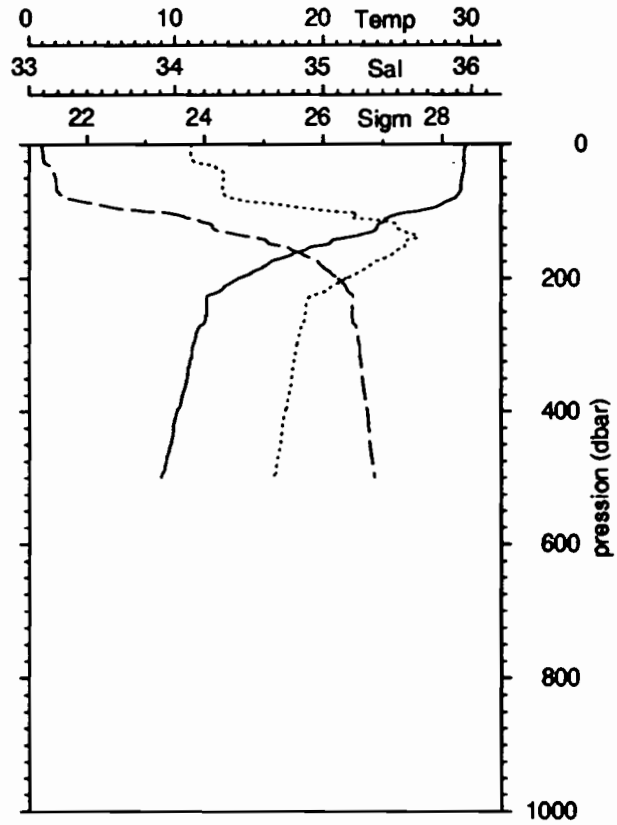
stations 189 190

191 192

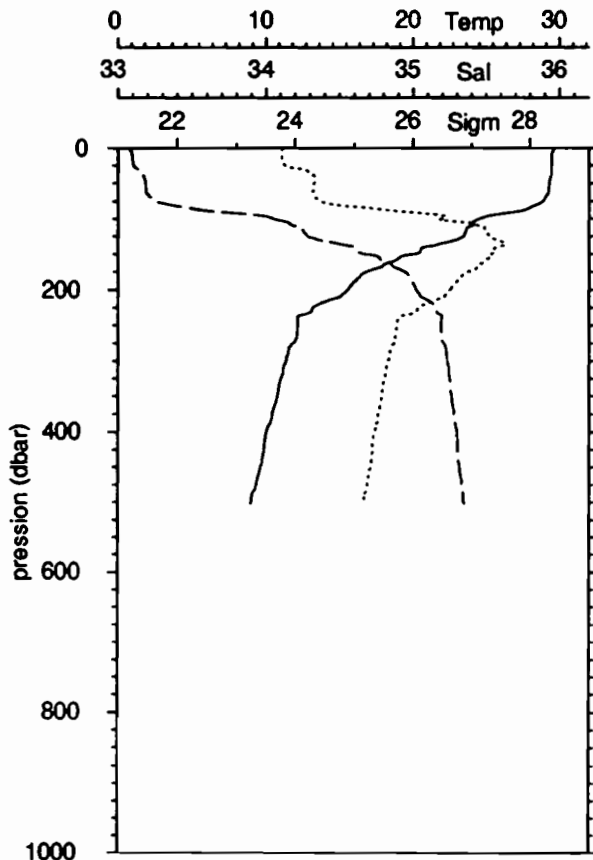
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



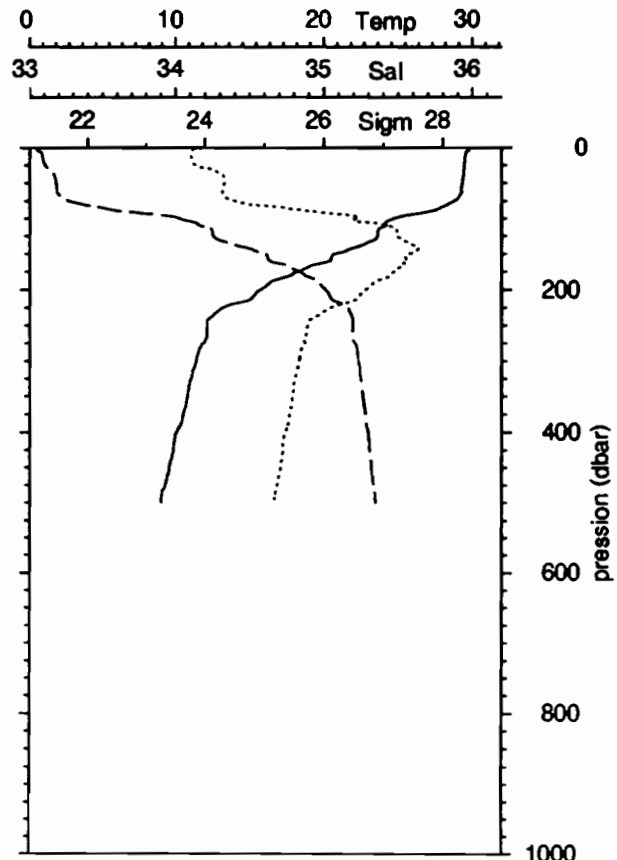
station 189  
1/12/92, 22h 2 TU  
1°45 S 156°10 E



station 190  
2/12/92, 0h59 TU  
1°45 S 156°10 E



station 191  
2/12/92, 1h46 TU  
1°45 S 156°10 E



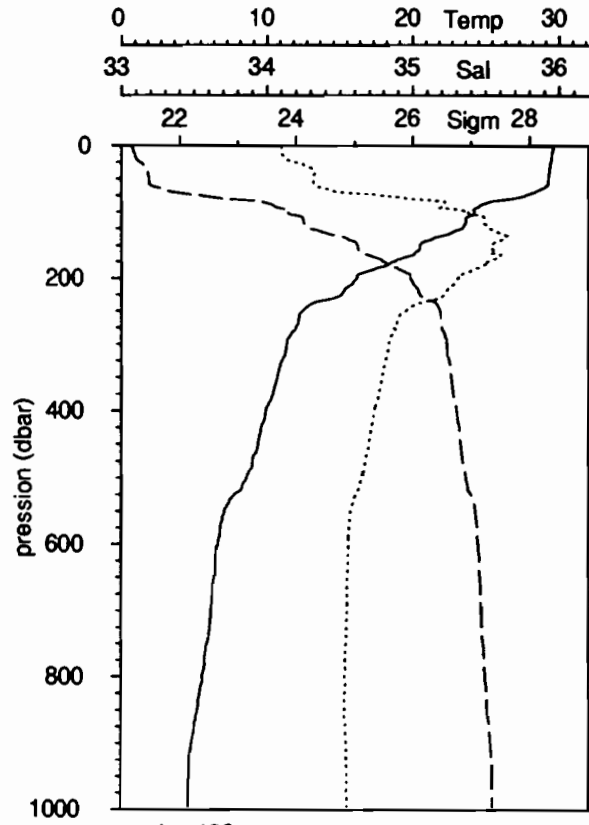
station 192  
2/12/92, 4h 4 TU  
1°45 S 156°10 E

# EQUALIS

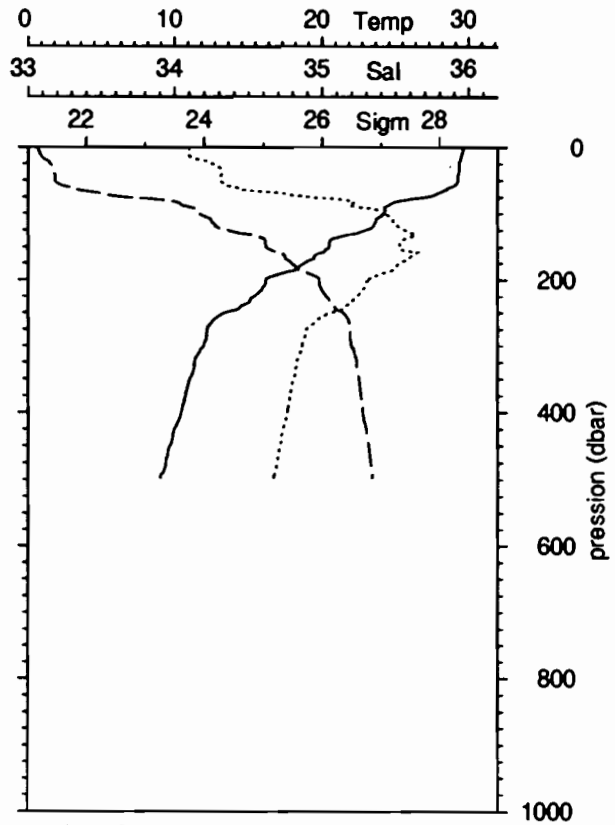
stations 193 194

195 197

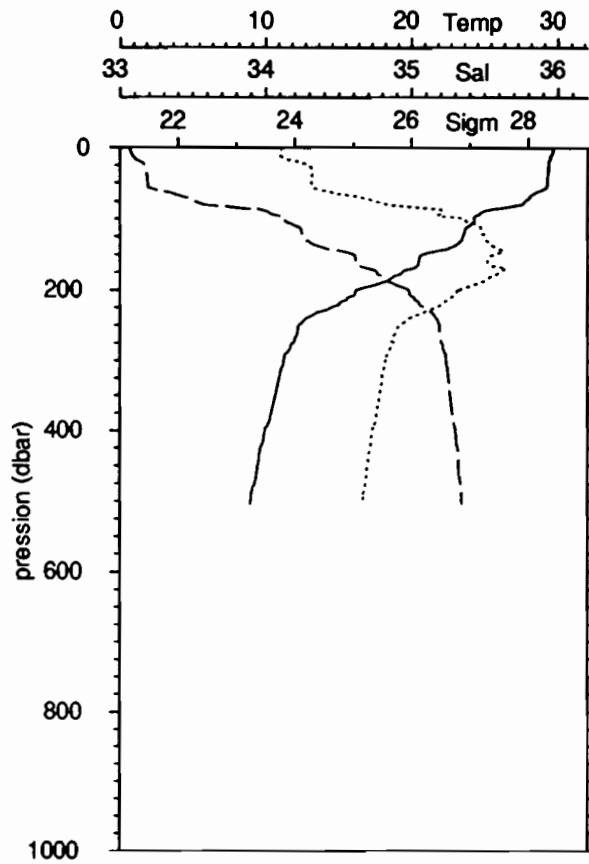
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



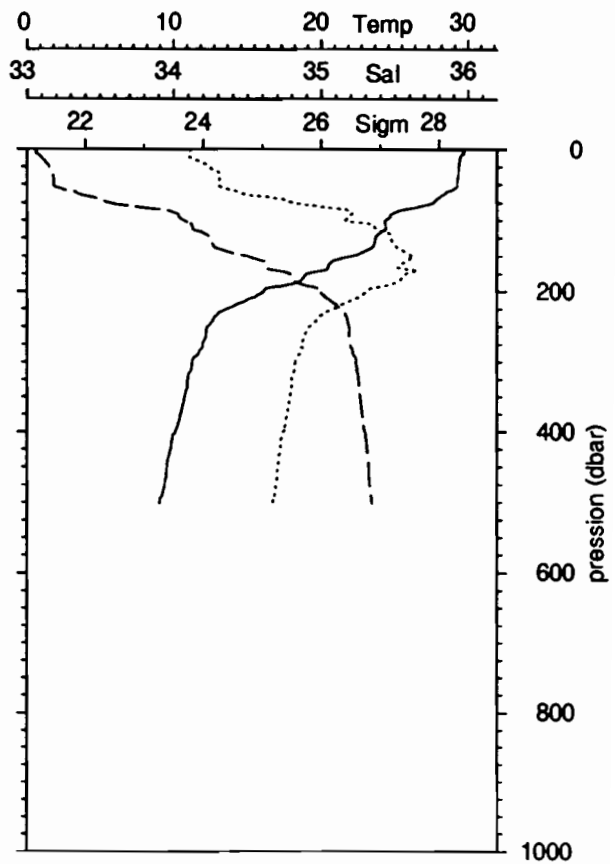
station 193  
2/12/92, 7h 2 TU  
1°45 S 156°10 E



station 194  
2/12/92, 7h54 TU  
1°45 S 156°10 E



station 195  
2/12/92, 10h 2 TU  
1°45 S 156°10 E

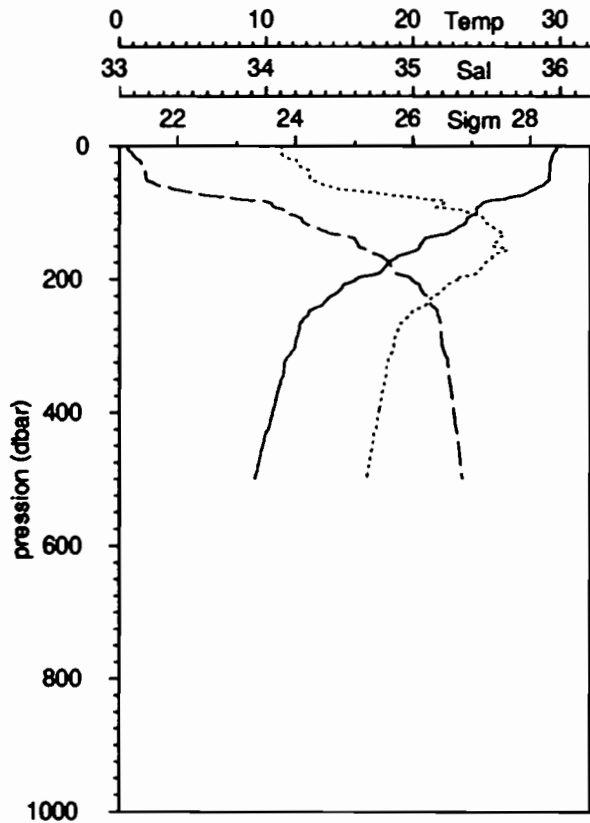


station 197  
2/12/92, 12h59 TU  
1°45 S 156°10 E

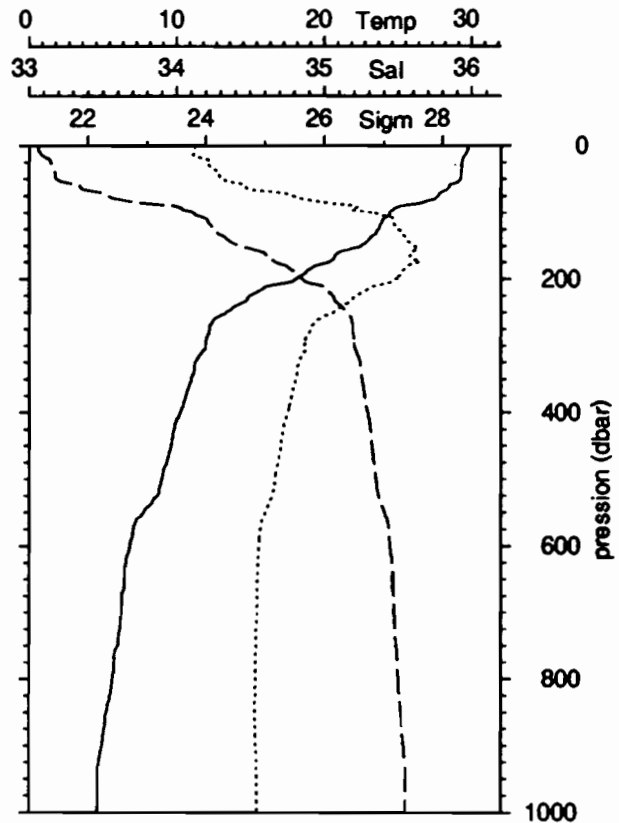
# EQUALIS

stations 198 199  
200 201

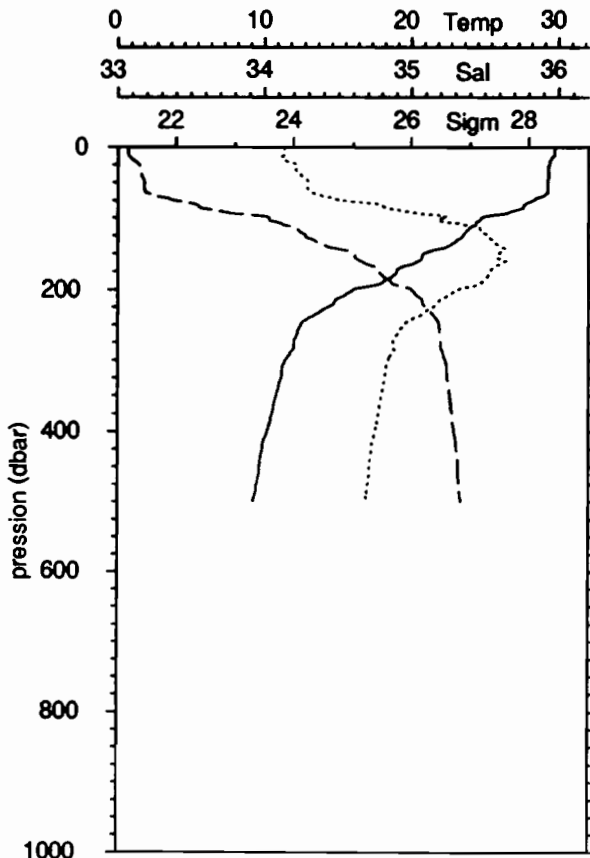
— temperature: °C      ..... salinite      - - - sigma theta: kg/m<sup>3</sup>



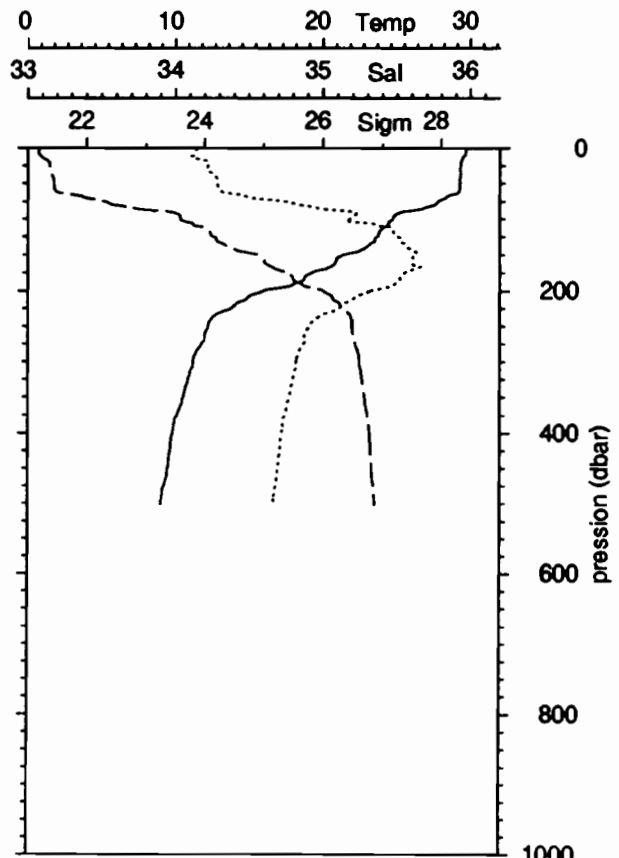
station 198  
2/12/92, 16h 1 TU  
1°45 S 156°10 E



station 199  
2/12/92, 19h 2 TU  
1°45 S 156°10 E



station 200  
2/12/92, 20h 1 TU  
1°45 S 156°10 E

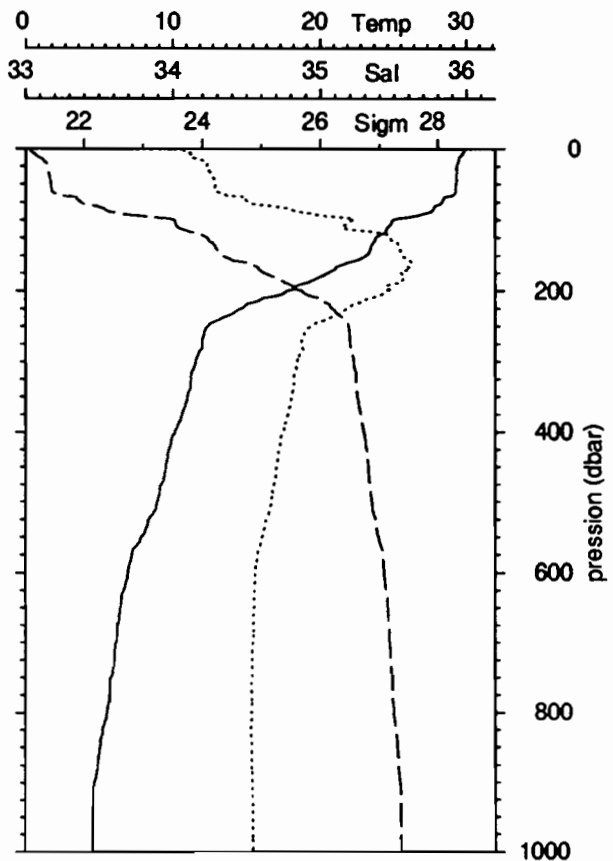
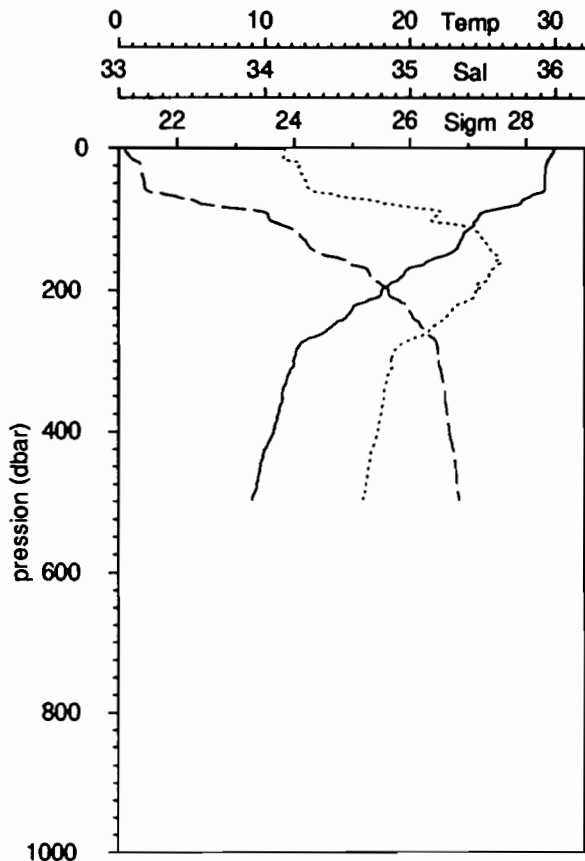
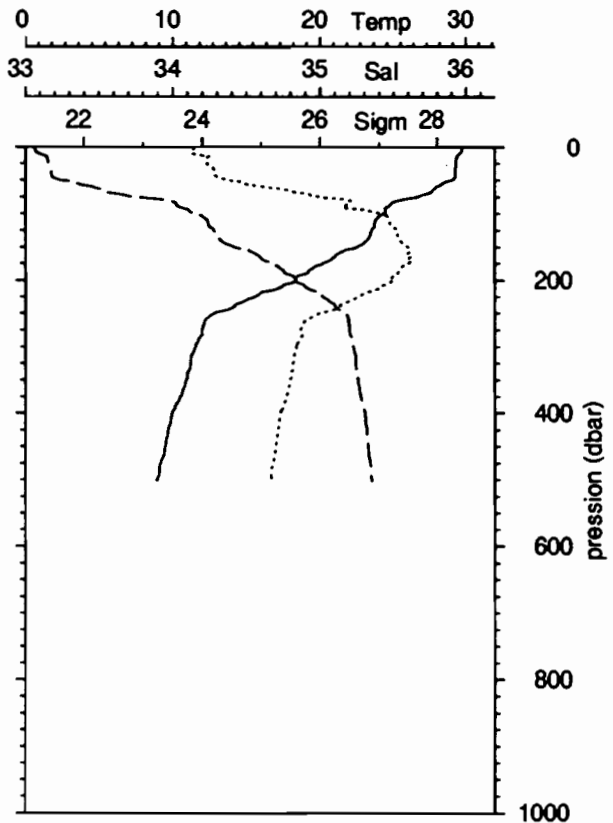
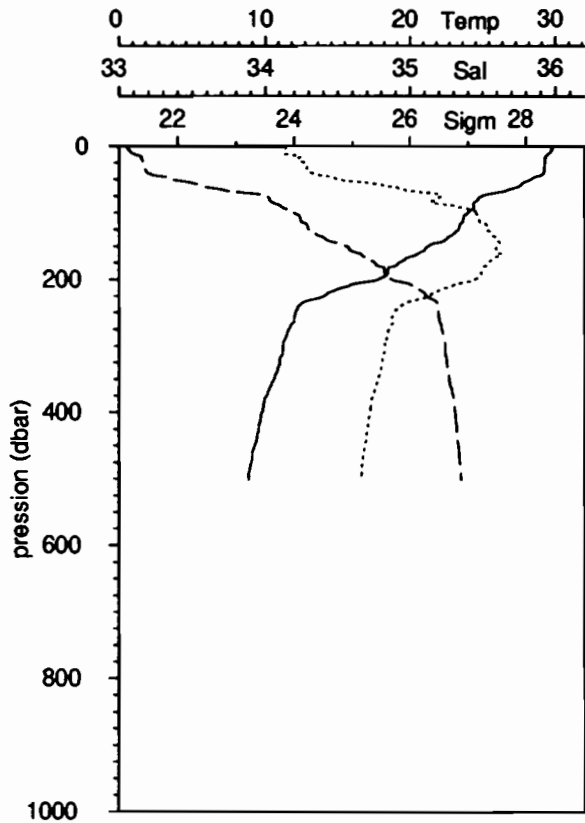


station 201  
2/12/92, 22h 0 TU  
1°45 S 156°10 E

# EQUALIS

stations 202 203  
204 205

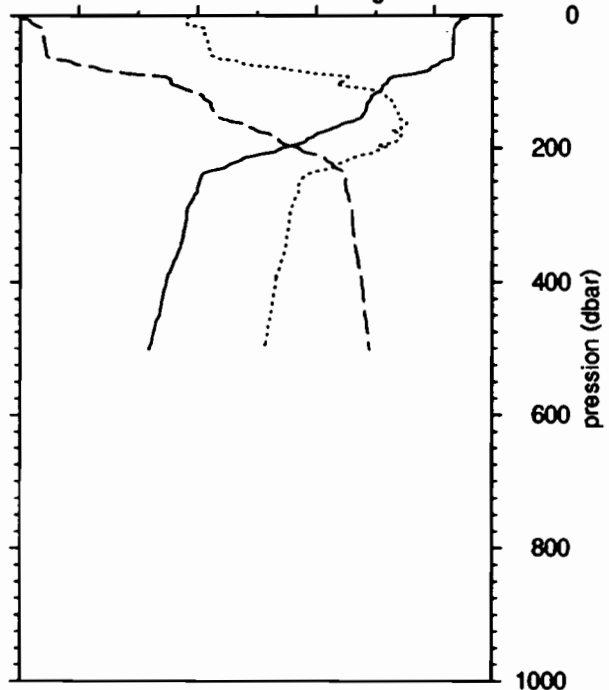
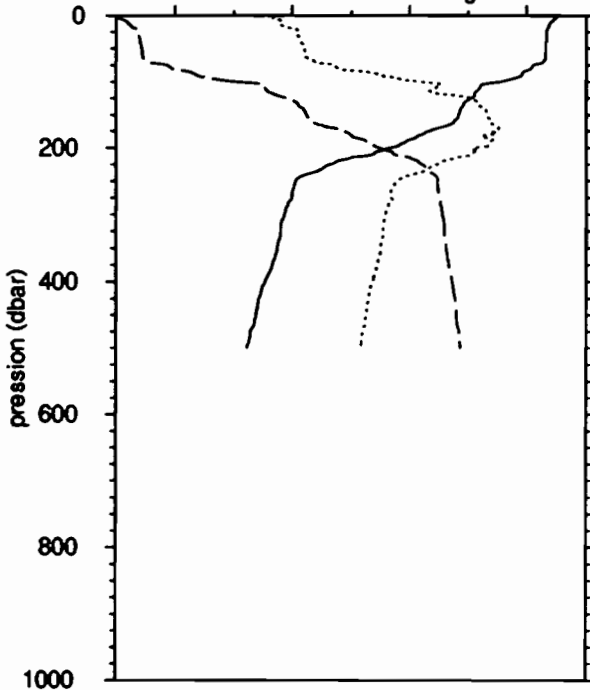
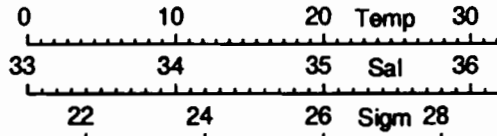
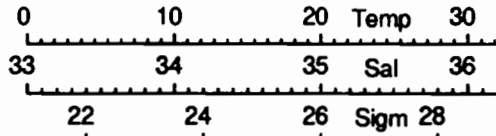
— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



# EQUALIS

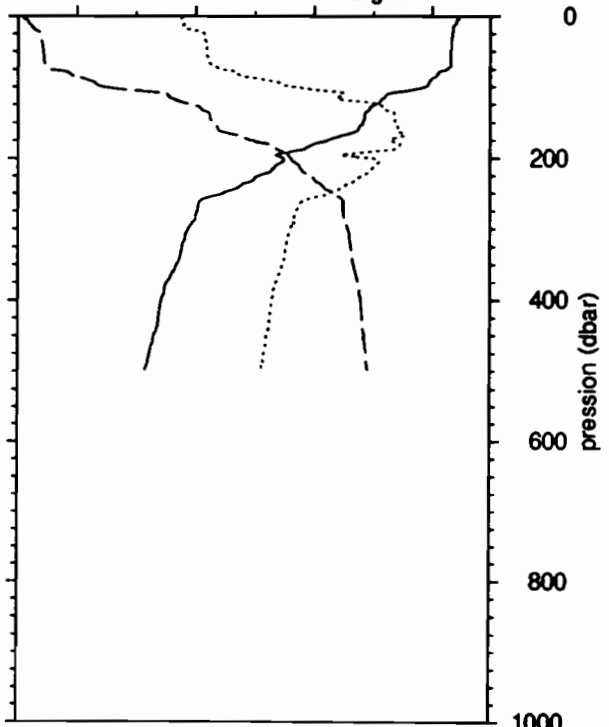
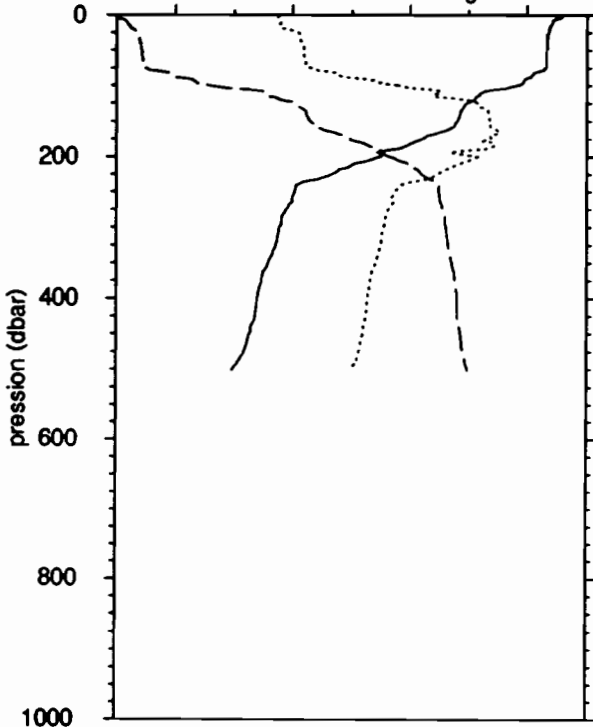
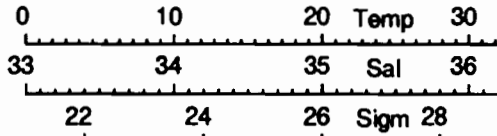
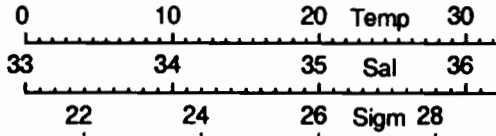
stations 207 208  
209 210

— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



station 207  
3/12/92, 7h58 TU  
1°45 S 156°10 E

station 208  
3/12/92, 10h 0 TU  
1°45 S 156°10 E



station 209  
3/12/92, 13h 0 TU  
1°45 S 156°10 E

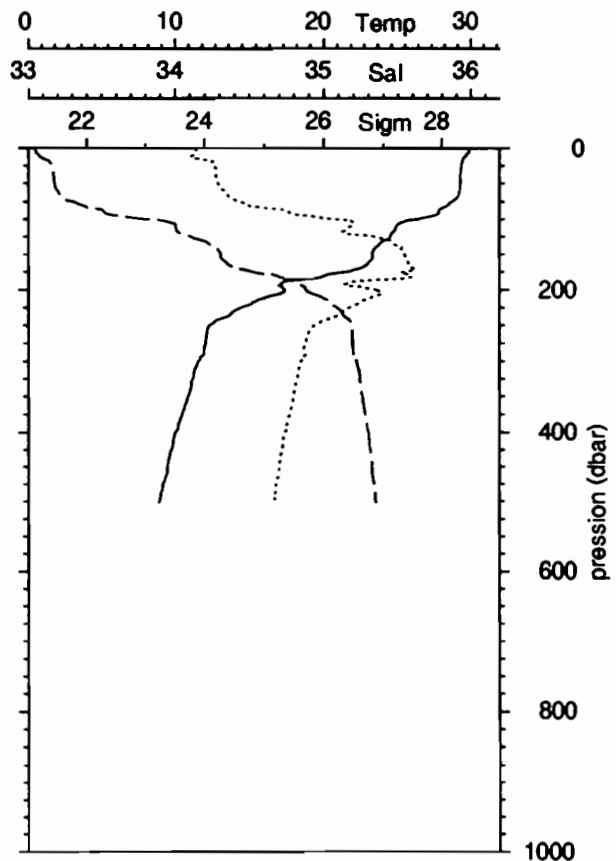
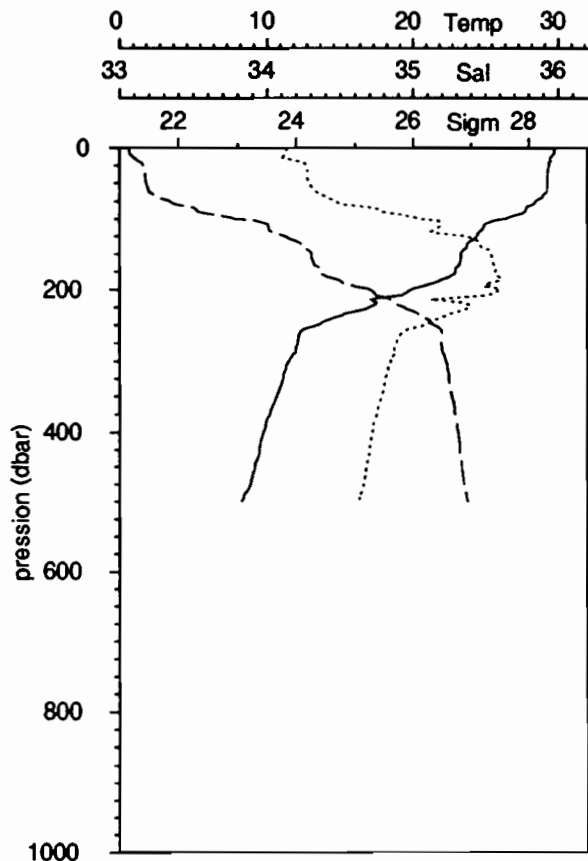
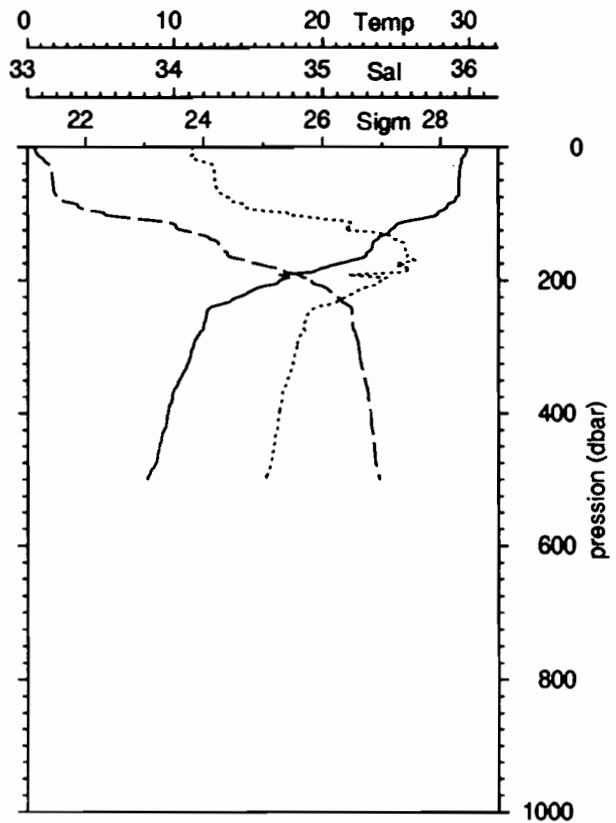
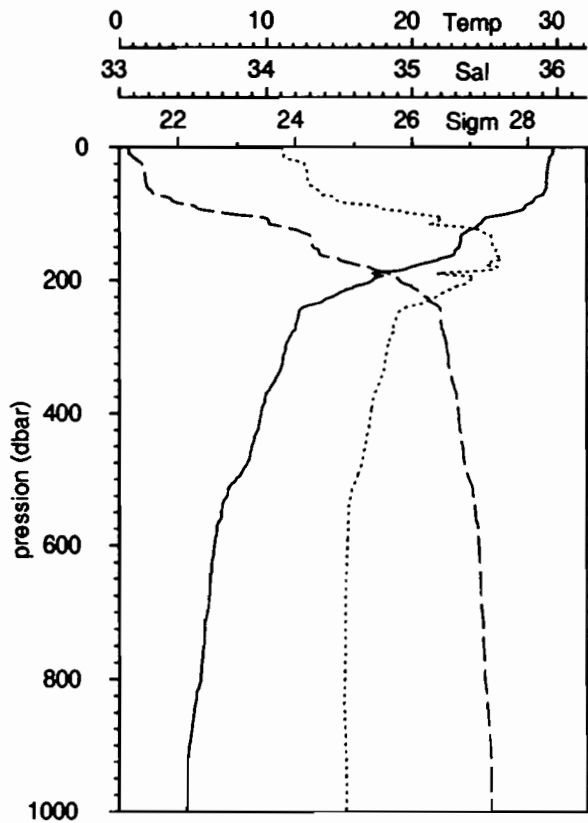
station 210  
3/12/92, 16h 0 TU  
1°45 S 156°10 E



# EQUALIS

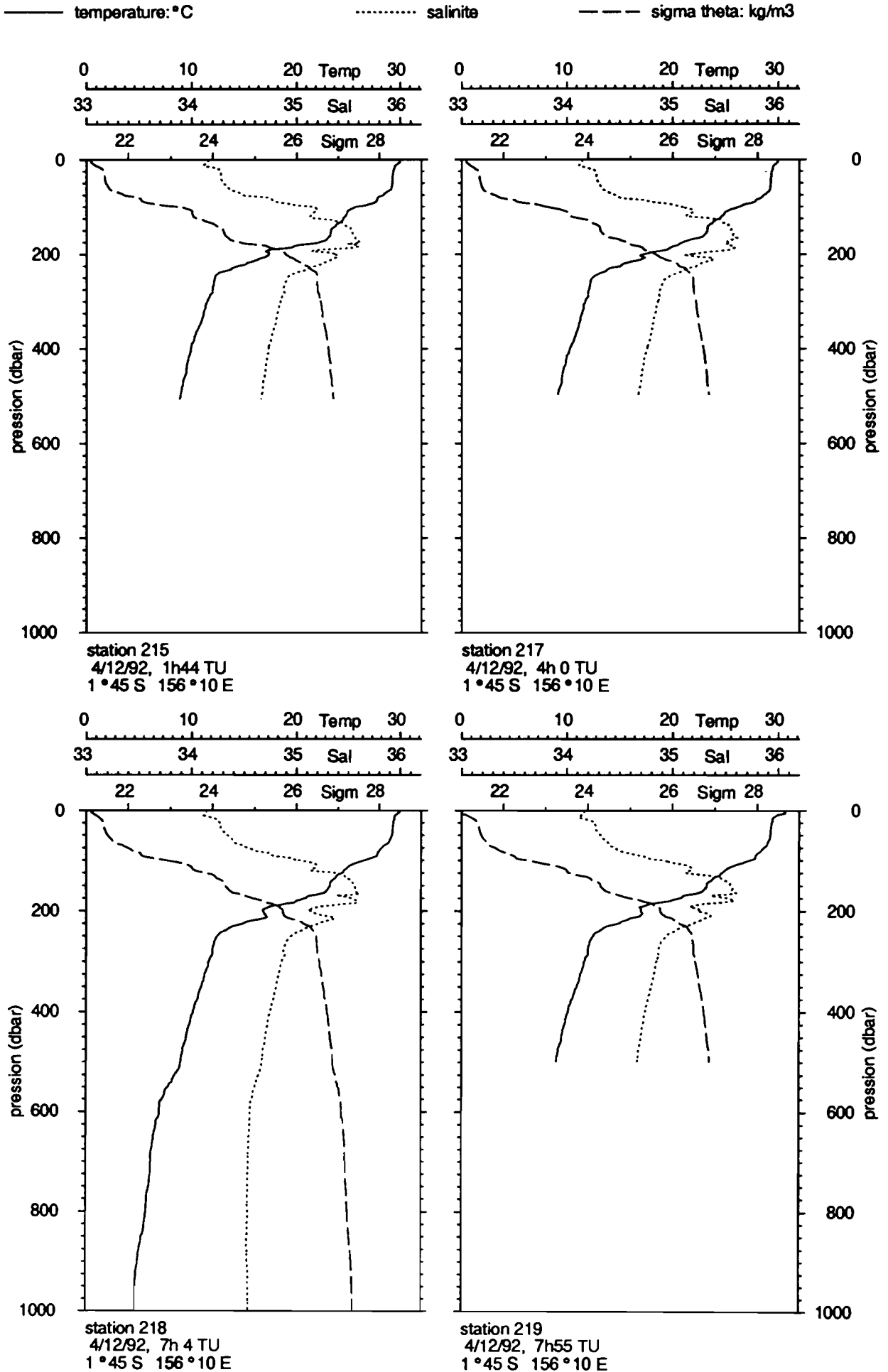
stations 211 212  
213 214

— temperature: °C      ..... salinite      - - - - sigma theta: kg/m3



# EQUALIS

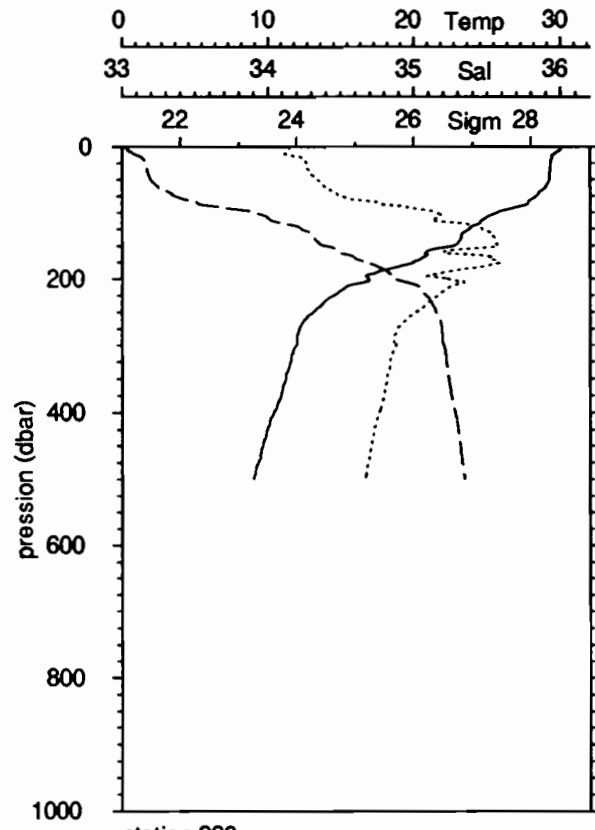
stations 215 217  
218 219



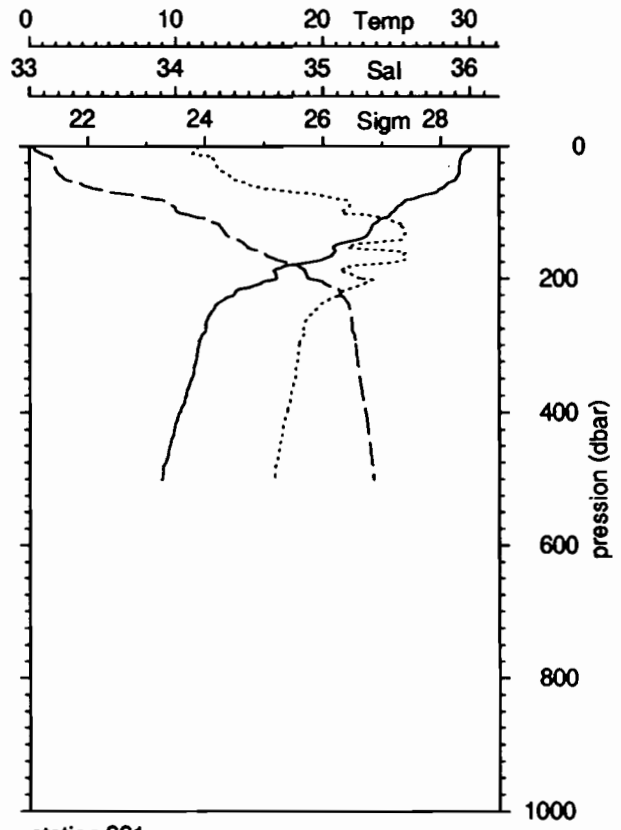
# EQUALIS

stations 220 221  
222 223

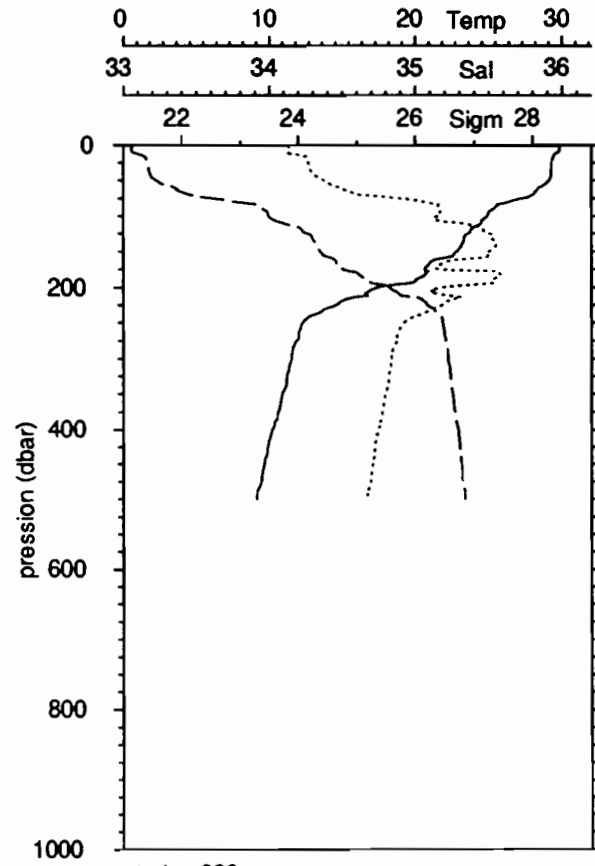
— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



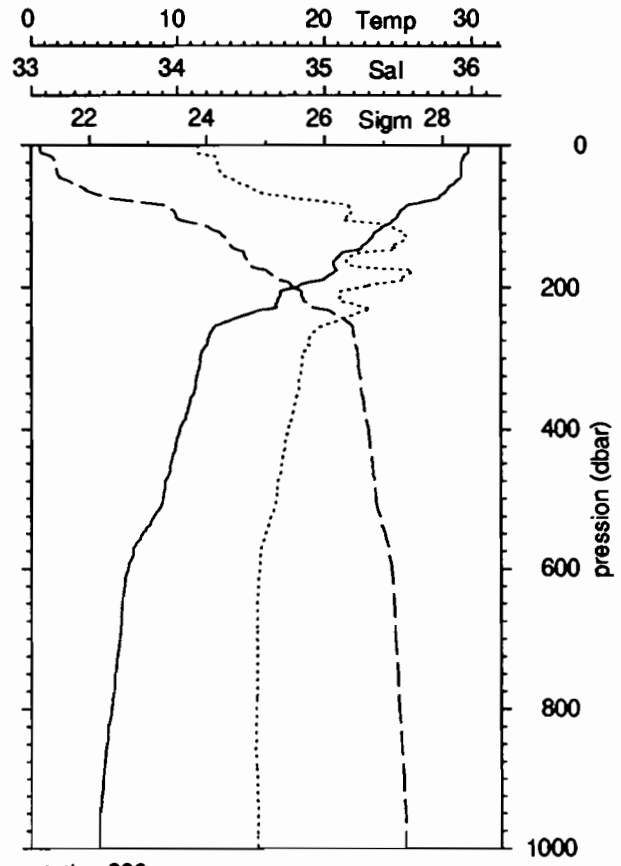
station 220  
4/12/92, 10h 1 TU  
1°45 S 156°10 E



station 221  
4/12/92, 13h 0 TU  
1°45 S 156°10 E



station 222  
4/12/92, 16h 0 TU  
1°45 S 156°10 E

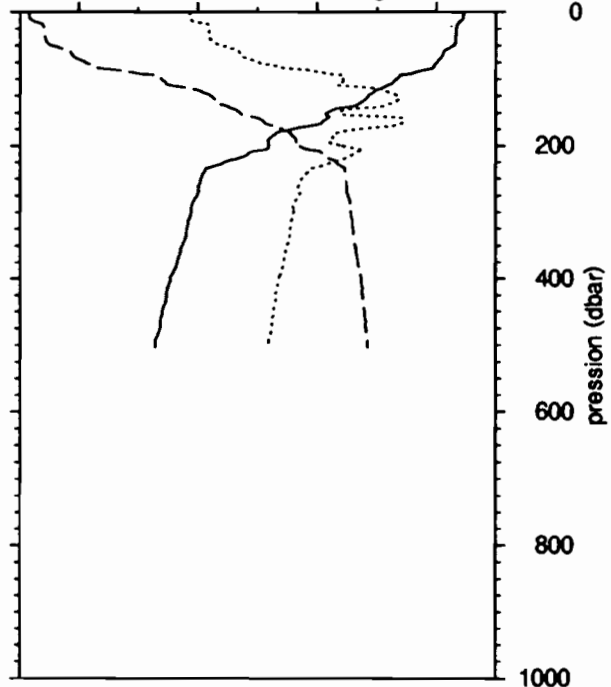
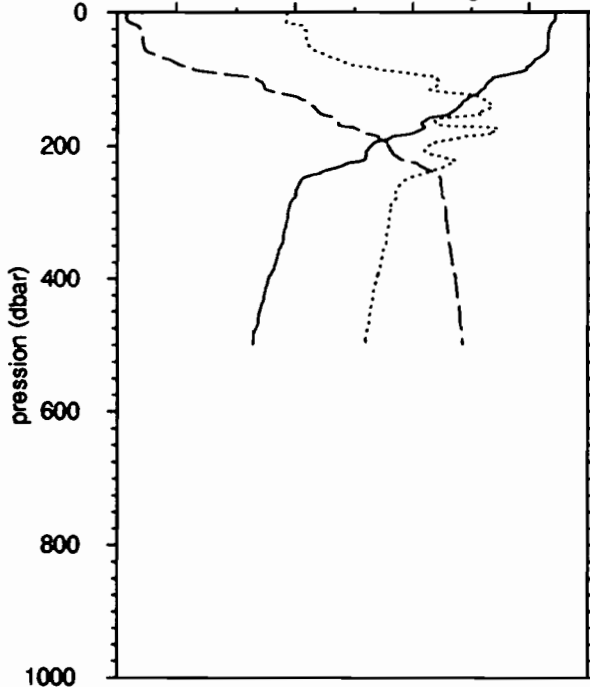
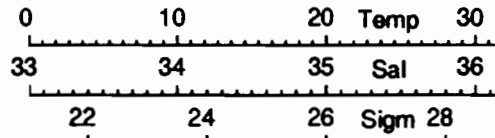
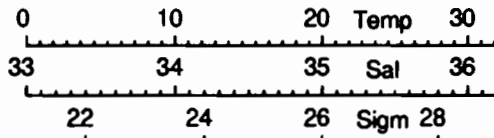


station 223  
4/12/92, 19h 4 TU  
1°45 S 156°10 E

# EQUALIS

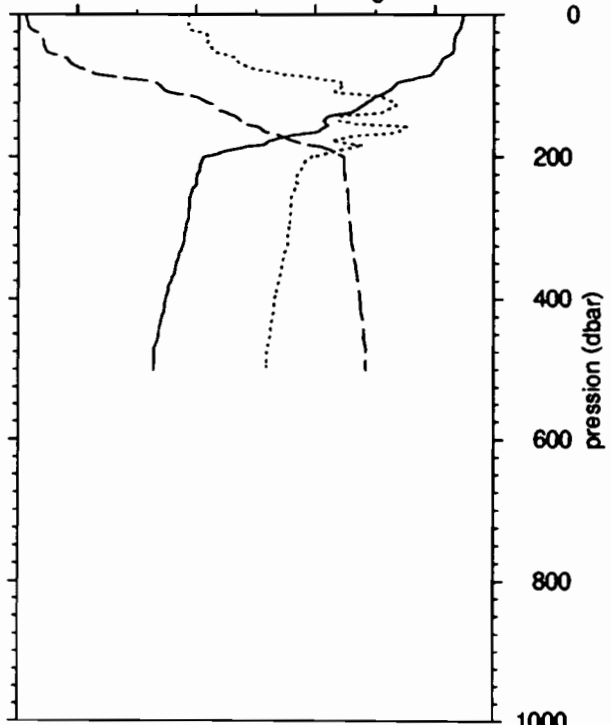
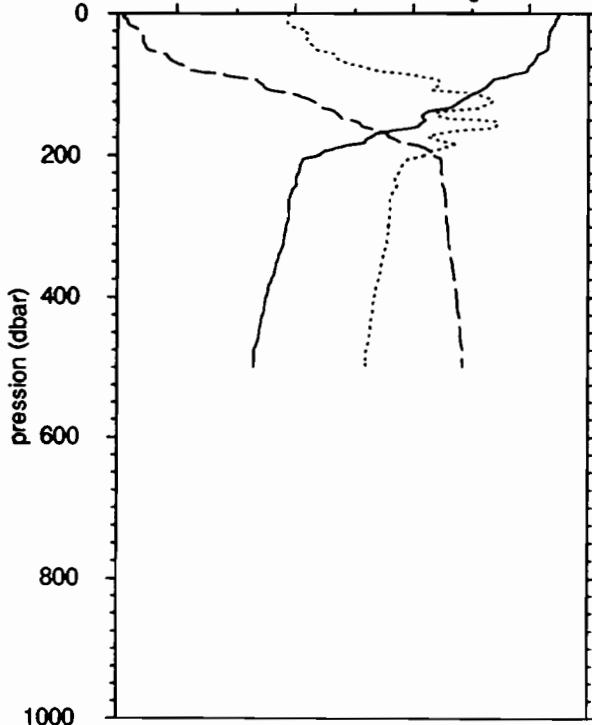
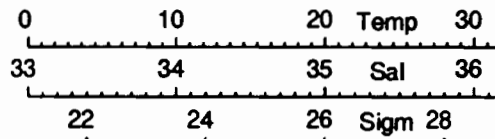
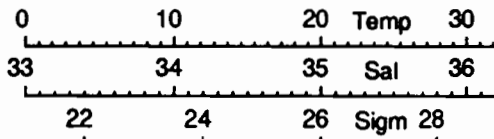
stations 224 225  
227 228

— temperature: °C      ..... salinite      - - - sigma theta: kg/m3



station 224  
4/12/92, 19h57 TU  
1°45 S 156°10 E

station 225  
4/12/92, 22h 1 TU  
1°45 S 156°10 E



station 227  
5/12/92, 1h 0 TU  
1°45 S 156°10 E

station 228  
5/12/92, 1h48 TU  
1°45 S 156°10 E

# EQUALIS

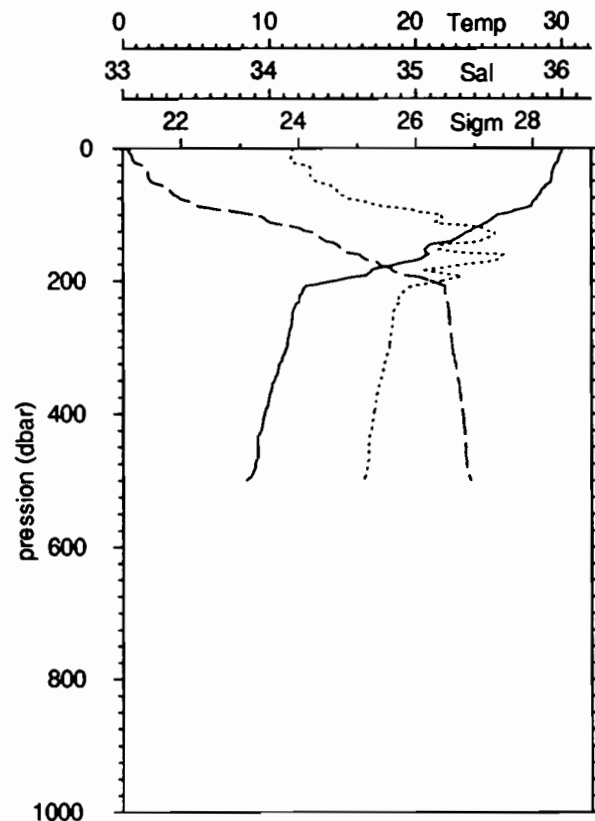
stations 229 230

231 232

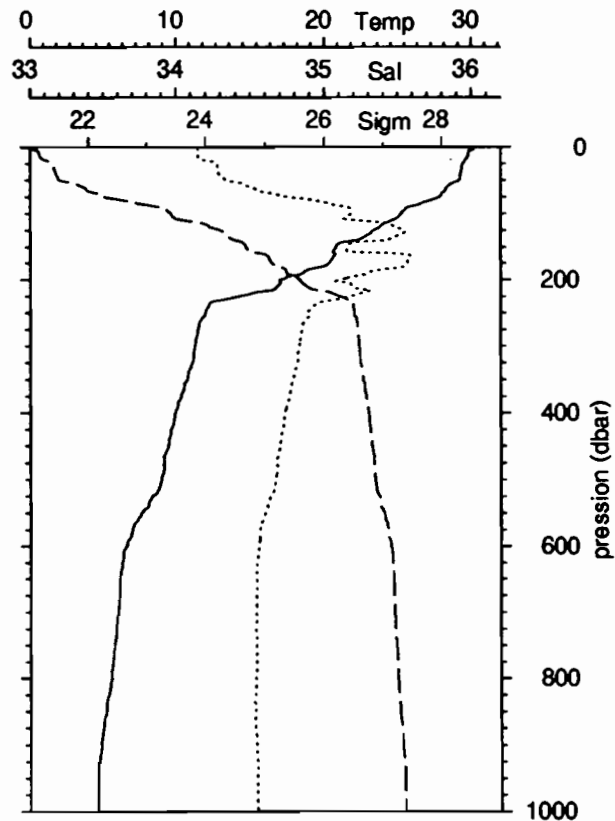
— temperature: °C

..... salinite

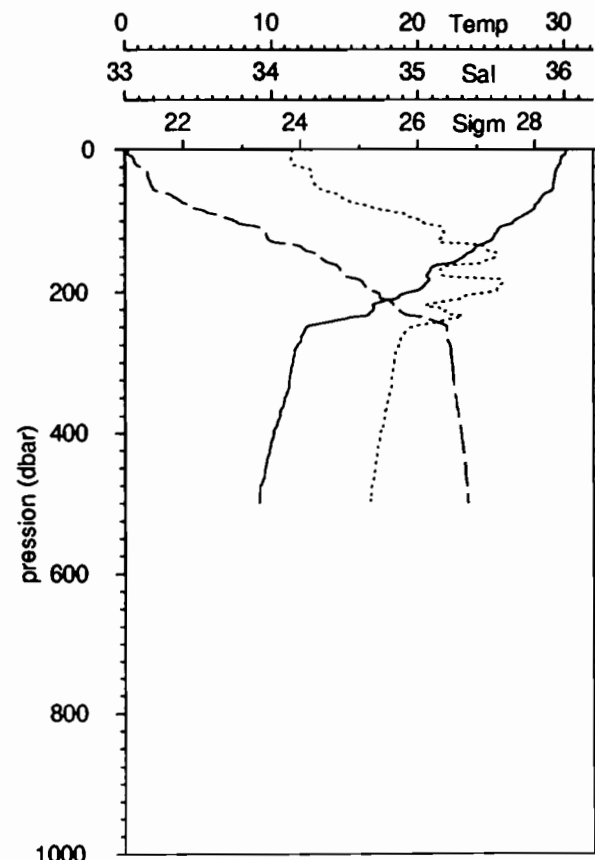
- - - sigma theta: kg/m3



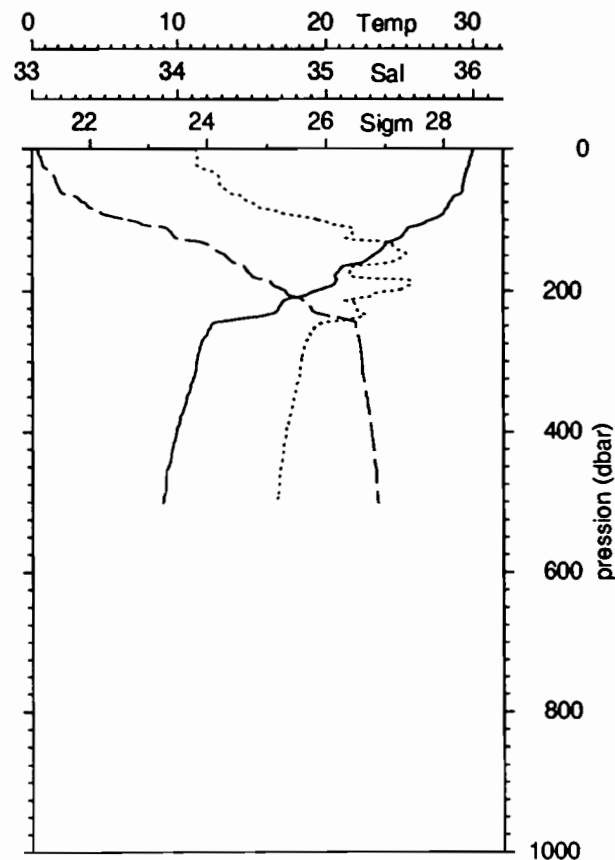
station 229  
5/12/92, 4h 0 TU  
1°45 S 156°10 E



station 230  
5/12/92, 6h59 TU  
1°45 S 156°10 E

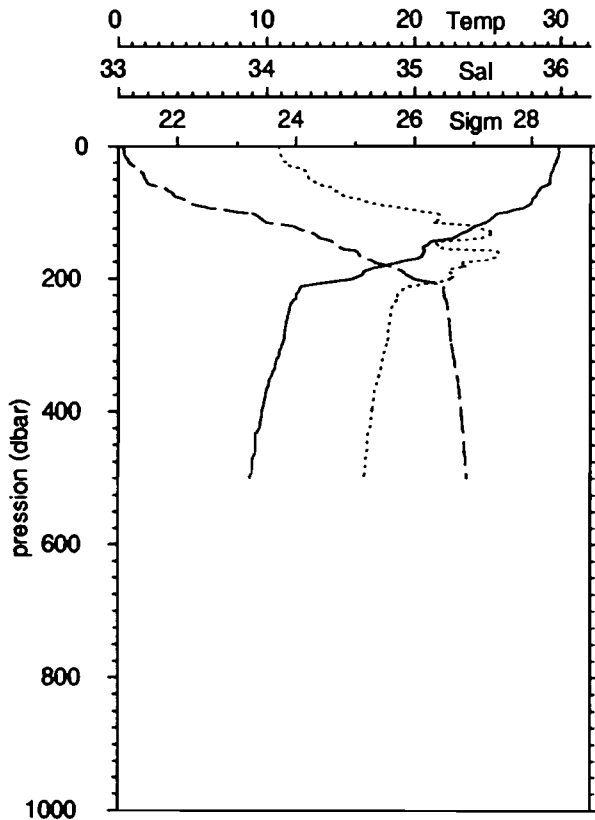


station 231  
5/12/92, 7h46 TU  
1°45 S 156°10 E



station 232  
5/12/92, 9h57 TU  
1°45 S 156°10 E

— temperature: °C                      ..... salinite                      - - - sigma theta: kg/m3



station 233  
5/12/92, 13h 2 TU  
1°45 S 156°10 E



## ANNEXE 3

### Résultats détaillés des stations

#### *Detailed results during stations*

**Page de gauche:** données bathysonde et ADCP

en haut à gauche: profils verticaux de température ( $^{\circ}\text{C}$ ), salinité et densité potentielle ( $\sigma_{\theta}$ ,  $\text{kg.m}^{-3}$ ) de 0 à 300 dbar

en haut à droite: profils verticaux des vitesses zonale et méridienne ( $\text{cm.s}^{-1}$ )

en bas à gauche: diagramme température potentielle / salinité

en bas à droite: tableau récapitulatif des valeurs de pression (dbar), température ( $^{\circ}\text{C}$ ), salinité, vitesse zonale et vitesse méridienne ( $\text{cm.s}^{-1}$ ) aux niveaux NODC

*Left page: CTD and ADCP data*

*upper left panel: vertical profiles of temperature ( $^{\circ}\text{C}$ ), salinity and potential density ( $\sigma_{\theta}$   $\text{kg.m}^{-3}$ ) from 0 to 300 dbar*

*upper right panel: vertical profiles of zonal and meridional velocity ( $\text{cm.s}^{-1}$ )*

*lower left panel: diagram of potential temperature vs. salinity*

*lower right panel: pressure (dbar), temperature ( $^{\circ}\text{C}$ ), salinity, zonal and meridional velocity ( $\text{cm.s}^{-1}$ ) values at the NODC levels*

**Page de droite:** sels nutritifs et pigments chlorophylliens

en haut à gauche: profils verticaux de nitrate et nitrite en  $\mu\text{M}$  de 0 à 300 dbar

en haut à droite: profils verticaux de phosphate et silicate en  $\mu\text{M}$  de 0 à 300 dbar

en bas à gauche: profils verticaux de chlorophylle en  $\text{mg.m}^{-3}$  de 0 à 300 dbar

en bas à droite: tableau récapitulatif des valeurs de nitrate ( $\mu\text{M}$ ), nitrite ( $\mu\text{M}$ ), phosphate ( $\mu\text{M}$ ) silicate ( $\mu\text{M}$ ), température ( $^{\circ}\text{C}$ ), salinité, chlorophylle ( $\text{mg.m}^{-3}$ ), phéophytine ( $\text{mg.m}^{-3}$ ) et pourcentage de phéophytine aux profondeurs de prélèvements

*Right page: nutrients and chlorophyll data*

*upper left panel: vertical profiles of nitrate and nitrite ( $\mu\text{M}$ ) from 0 to 300 dbar*

*upper right panel: vertical profiles of phosphate and silicate ( $\mu\text{M}$ ) from 0 to 300 dbar*

*lower left panel: vertical profiles of chlorophyll ( $\text{mg.m}^{-3}$ ) from 0 to 300 dbar*

*lower right panel: nitrate ( $\mu\text{M}$ ), nitrite ( $\mu\text{M}$ ), phosphate ( $\mu\text{M}$ ) silicate ( $\mu\text{M}$ ), temperature ( $^{\circ}\text{C}$ ), salinity, chlorophyll ( $\text{mg.m}^{-3}$ ), pheophytin ( $\text{mg.m}^{-3}$ ), and pheophytin percent values at the sampling depths*

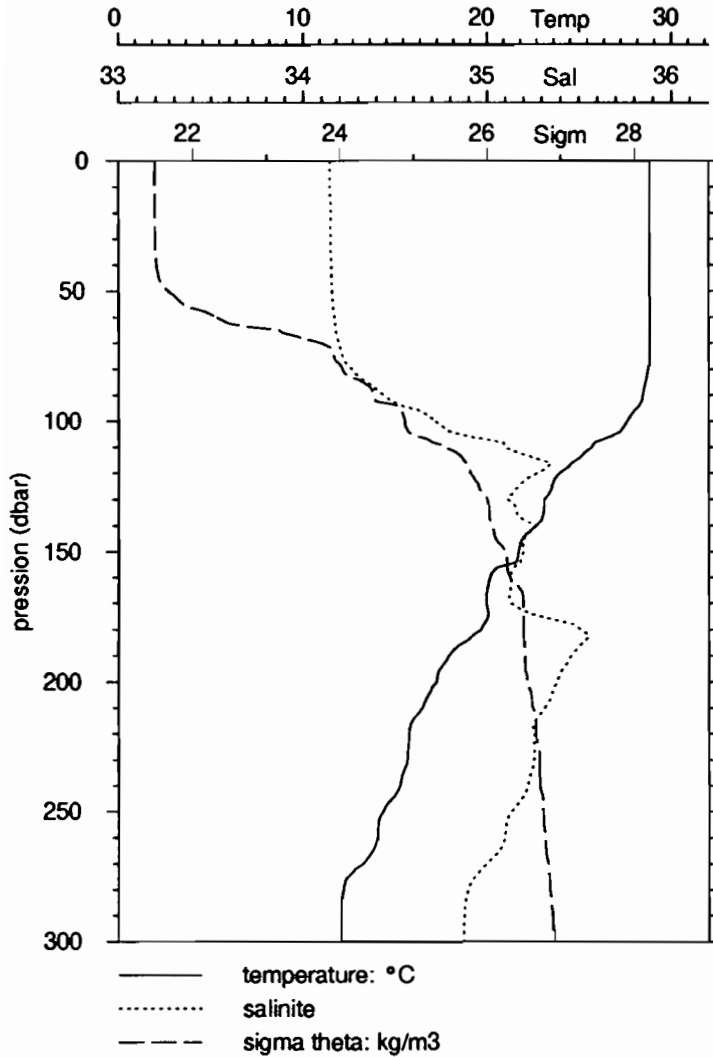


# EQUALIS -station 1

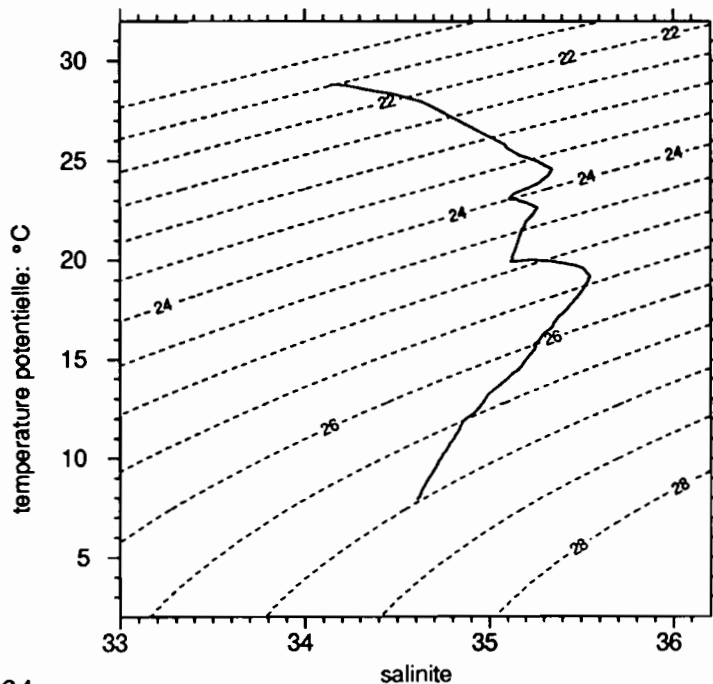
11/11/92, 22h32 TU

1°30 S 156°15 E

12/11/92, 8h32 locale



	P	T	S
debut	4.0	28.820	34.144
fin	510.0	7.990	34.609



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.819	34.144		
20.0	28.828	34.150		
30.0	28.828	34.149		
40.0	28.833	34.153		
50.0	28.837	34.155		
75.0	28.816	34.212		
100.0	27.600	34.720		
125.0	23.533	35.171		
150.0	21.697	35.195		
200.0	17.202	35.381		
250.0	14.328	35.131		
300.0	12.015	34.868		
400.0	10.268	34.746		
500.0	8.466	34.634		

EQUALIS - station 1

1°30 S 156°15 E

11/11/92, 22h32 TU

12/11/92, 8h32 locale

Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.008	0.007	0.11	
20	0.008	0.007	0.09	
40				
49				
58				
69	0.040	0.007	0.09	
79	0.015	0.008	0.15	
91				
99				
120				
141	8.42	0.023	0.72	
160	9.77	0.018	0.85	
179	8.93	0.018	0.79	

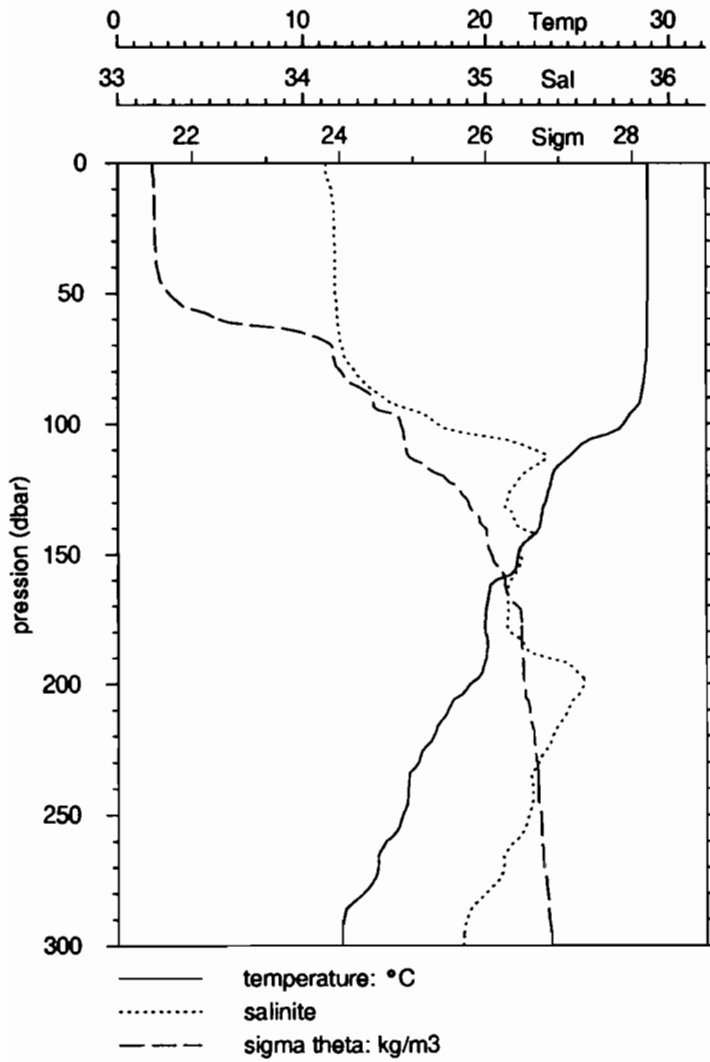
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	28.93	34.18	0.132	0.093	41.41
20	28.80	20.43	0.093	0.071	43.23
40	28.84	34.15			
49	28.84	34.16			
58	28.84	34.16	0.118	0.105	47.12
69	28.83	34.17	0.135	0.107	44.02
79	28.73	34.18			
91	28.36	34.25			
99	27.42	34.30			
120	23.55	34.72			
141	22.33	34.96	0.035	0.085	70.69
160	20.07	35.10	0.033	0.054	62.37
179	19.92	35.44	0.037	0.046	55.17

# EQUALIS -station 2

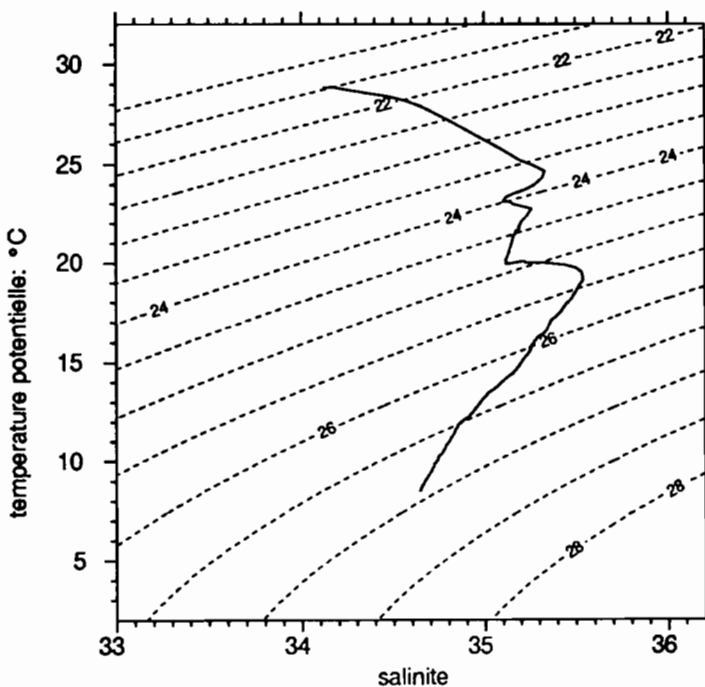
12/11/92, 1h 5 TU

1° 28 S 156° 15 E

12/11/92, 11h 5 locale



	P	T	S
debut	4.0	28.832	34.124
fin	504.0	8.539	34.642



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.848	34.155		
20.0	28.864	34.168		
30.0	28.859	34.172		
40.0	28.853	34.173		
50.0	28.851	34.175		
75.0	28.770	34.227		
100.0	27.526	34.733		
125.0	23.459	35.142		
150.0	21.781	35.189		
200.0	19.121	35.541		
250.0	15.395	35.235		
300.0	12.025	34.868		
400.0	10.309	34.747		
500.0	8.780	34.651		

# EQUALIS - station 2

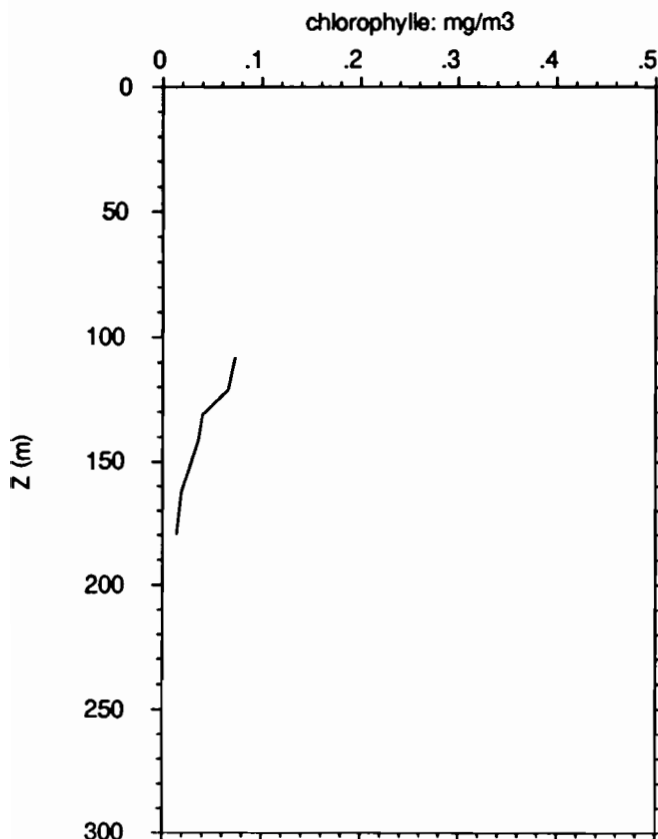
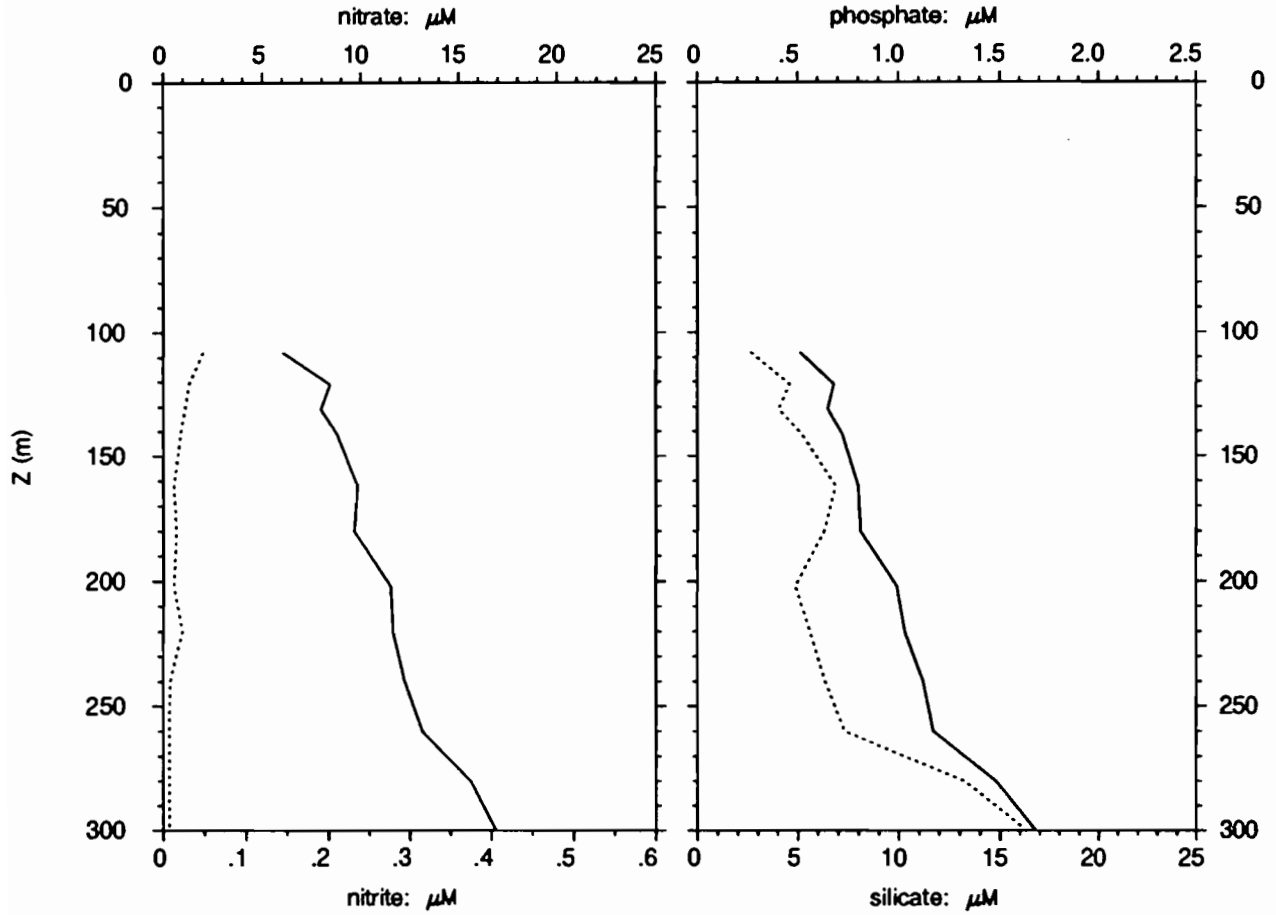
1°28 S 156°15 E

12/11/92, 1h 5 TU

12/11/92, 11h 5 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
108	6.04	0.048	0.51	2.7
121	8.40	0.031	0.68	4.6
131	7.94	0.026	0.65	4.1
141	8.77	0.021	0.72	5.2
162	9.81	0.013	0.80	6.9
180	9.65	0.016	0.81	6.3
202	11.51	0.013	0.99	4.9
220	11.62	0.023	1.03	5.6
240	12.21	0.008	1.12	6.3
260	13.13	0.007	1.17	7.3
280	15.61	0.007	1.48	13.2
301	16.97	0.007	1.69	16.5

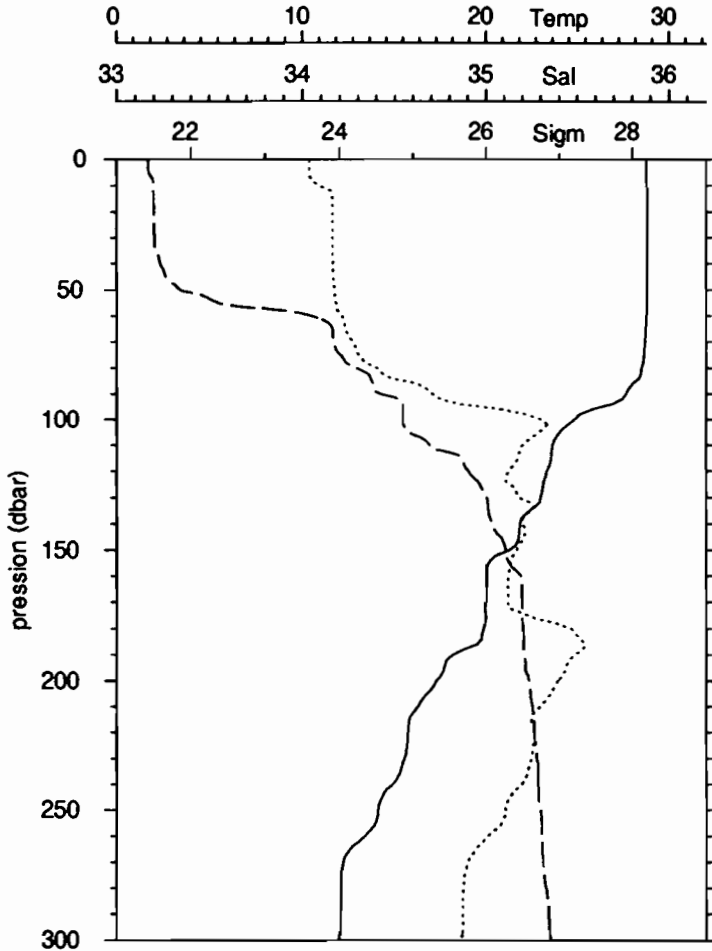
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
108	24.36	35.25	0.073	0.152	67.50
121	23.50	35.07	0.066	0.150	69.20
131	23.01	35.09	0.040	0.093	70.00
141	21.89	35.17	0.036	0.106	74.50
162	20.24	35.10	0.019	0.050	72.70
180	20.11	35.16	0.014	0.057	80.20
202	18.45	35.40			
220	16.52	35.31			
240	15.69	35.20			
260	14.42	35.08			
280	12.84	34.92			
301	12.02	34.86			

# EQUALIS -station 3

12/11/92, 2h24 TU

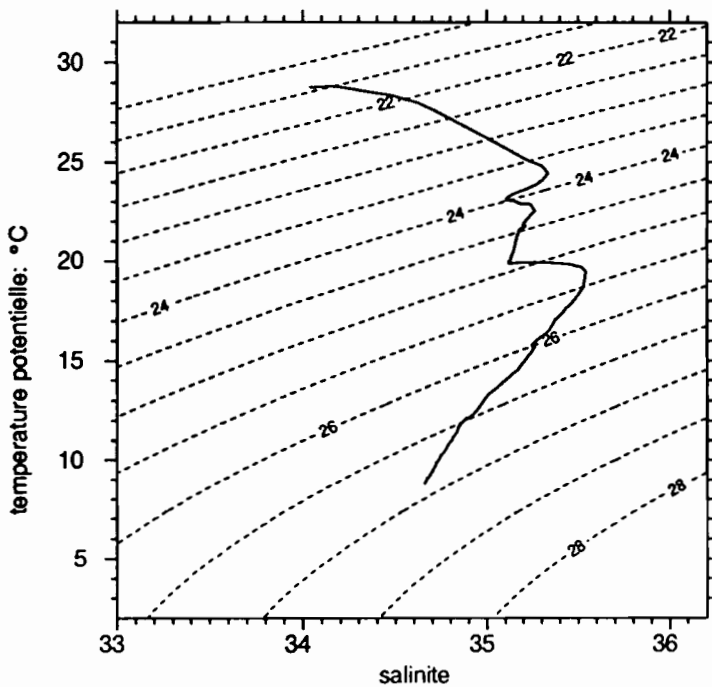
1°28 S 156°15 E

12/11/92, 12h24 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	28.756	34.037
fin	502.0	8.836	34.657



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.797	34.089		
20.0	28.831	34.162		
30.0	28.817	34.161		
40.0	28.819	34.163		
50.0	28.828	34.171		
75.0	28.644	34.303		
100.0	24.829	35.304		
125.0	23.114	35.129		
150.0	21.264	35.165		
200.0	17.255	35.392		
250.0	14.067	35.104		
300.0	11.929	34.862		
400.0	10.287	34.747		
500.0	8.864	34.659		

# EQUALIS - station 3

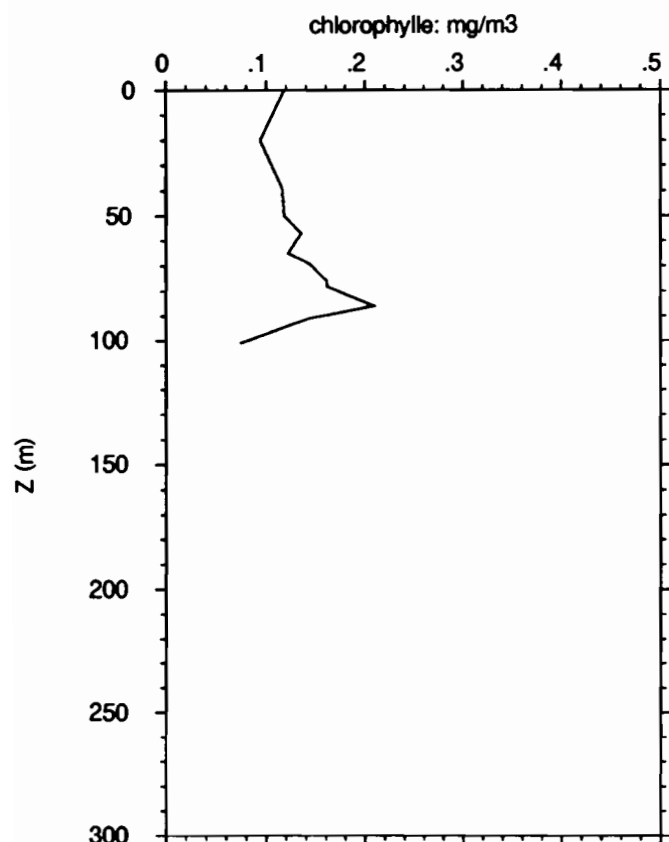
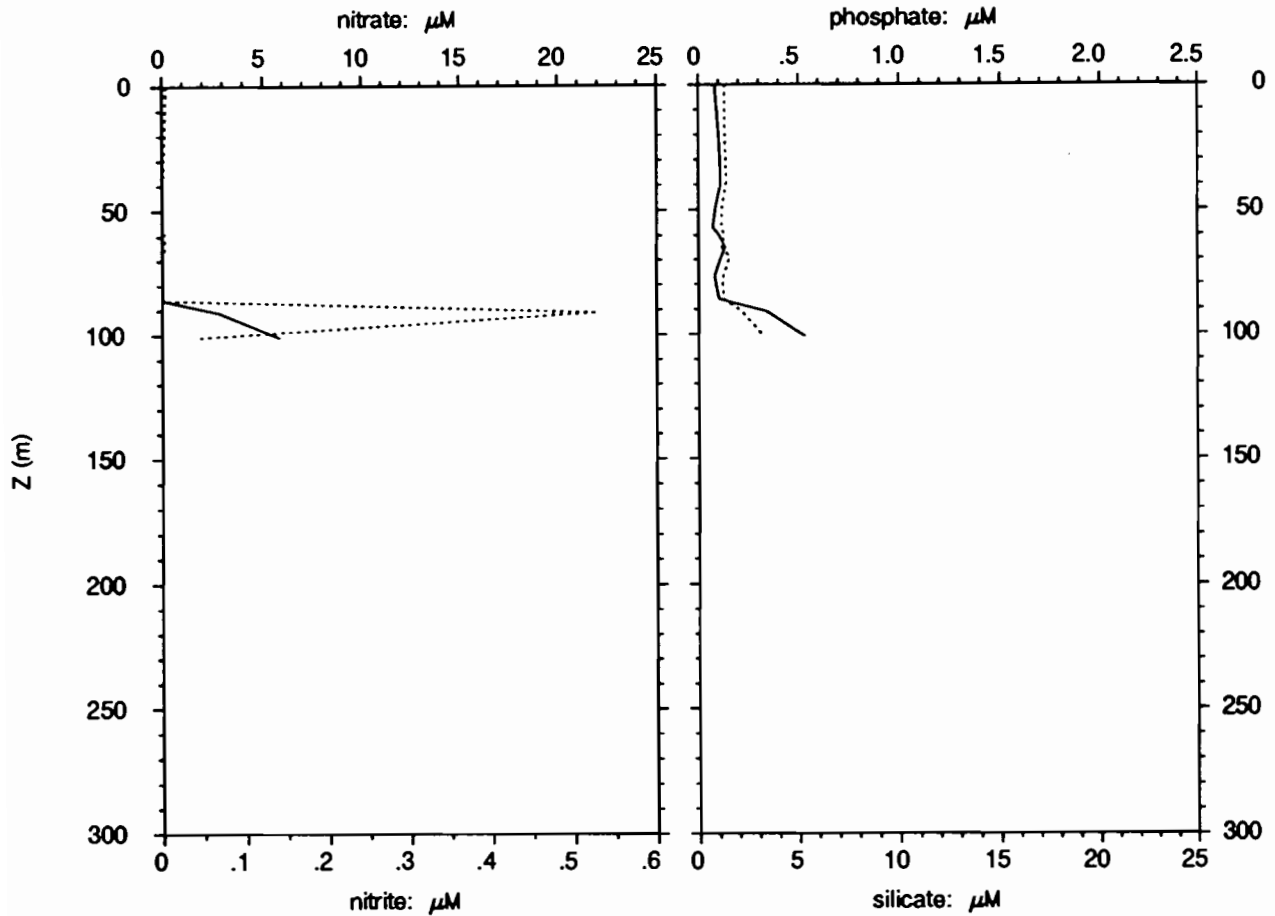
1°28 S 156°15 E

12/11/92, 2h24 TU

12/11/92, 12h24 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.005	0.08	1.3
20	0.004	0.003	0.10	1.3
39	0.006	0.001	0.11	1.4
50	0.004	0.001	0.08	1.1
57	0.002	0.002	0.07	1.1
60	0.004	0.003	0.10	1.2
65	0.006	0.003	0.13	1.2
69	0.006	0.001	0.11	1.5
76	0.009	0.001	0.08	1.2
78	0.005	0.001	0.08	1.2
86	0.009	0.001	0.10	1.2
91	2.83	0.528	0.34	2.2
101	5.82	0.044	0.53	3.2

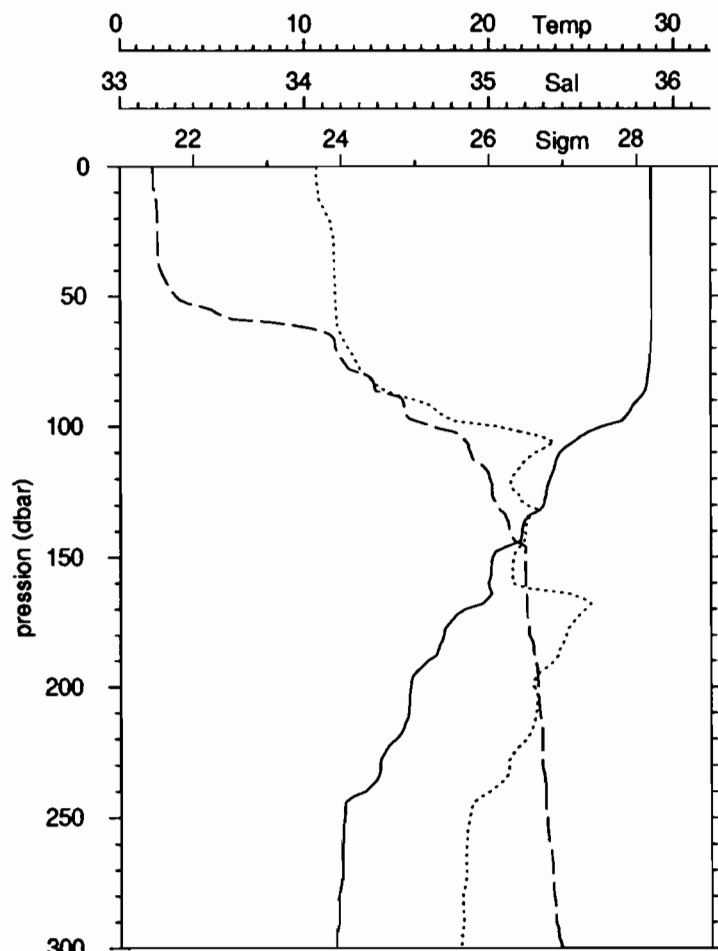
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	28.85	34.03	0.118	0.070	37.09
20	28.81	34.16	0.094	0.063	39.93
39	28.82	34.16	0.116	0.071	37.86
50	28.82	34.16	0.118	0.080	40.32
57	28.82	34.17	0.135	0.081	37.54
60	28.81	34.18	0.130	0.080	37.91
65	28.79	34.19	0.122	0.078	39.01
69	28.75	34.21	0.143	0.124	46.37
76	28.68	34.27	0.161	0.145	47.49
78	28.51	34.77	0.161	0.159	49.58
86	27.64	34.03	0.209	0.224	51.76
91	25.54	34.77	0.143	0.206	58.92
101	24.36	35.31	0.074	0.117	61.06

# EQUALIS -station 4

12/11/92, 4h25 TU

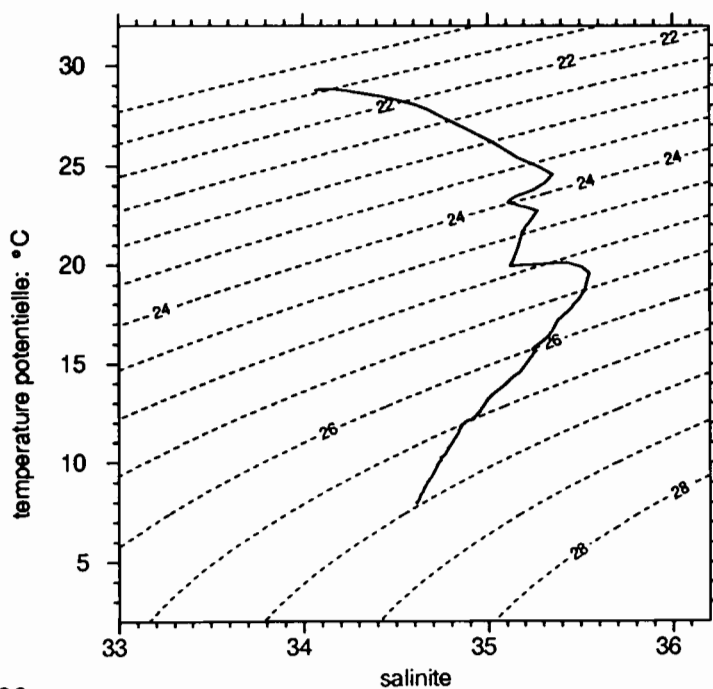
1°28 S 156°15 E

12/11/92, 14h25 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	28.767	34.065
fin	502.0	7.992	34.608



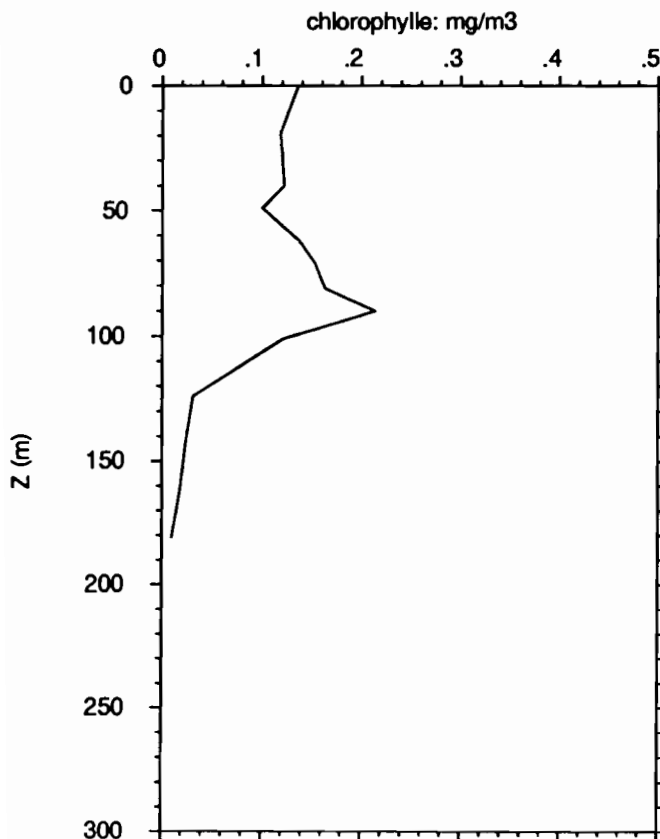
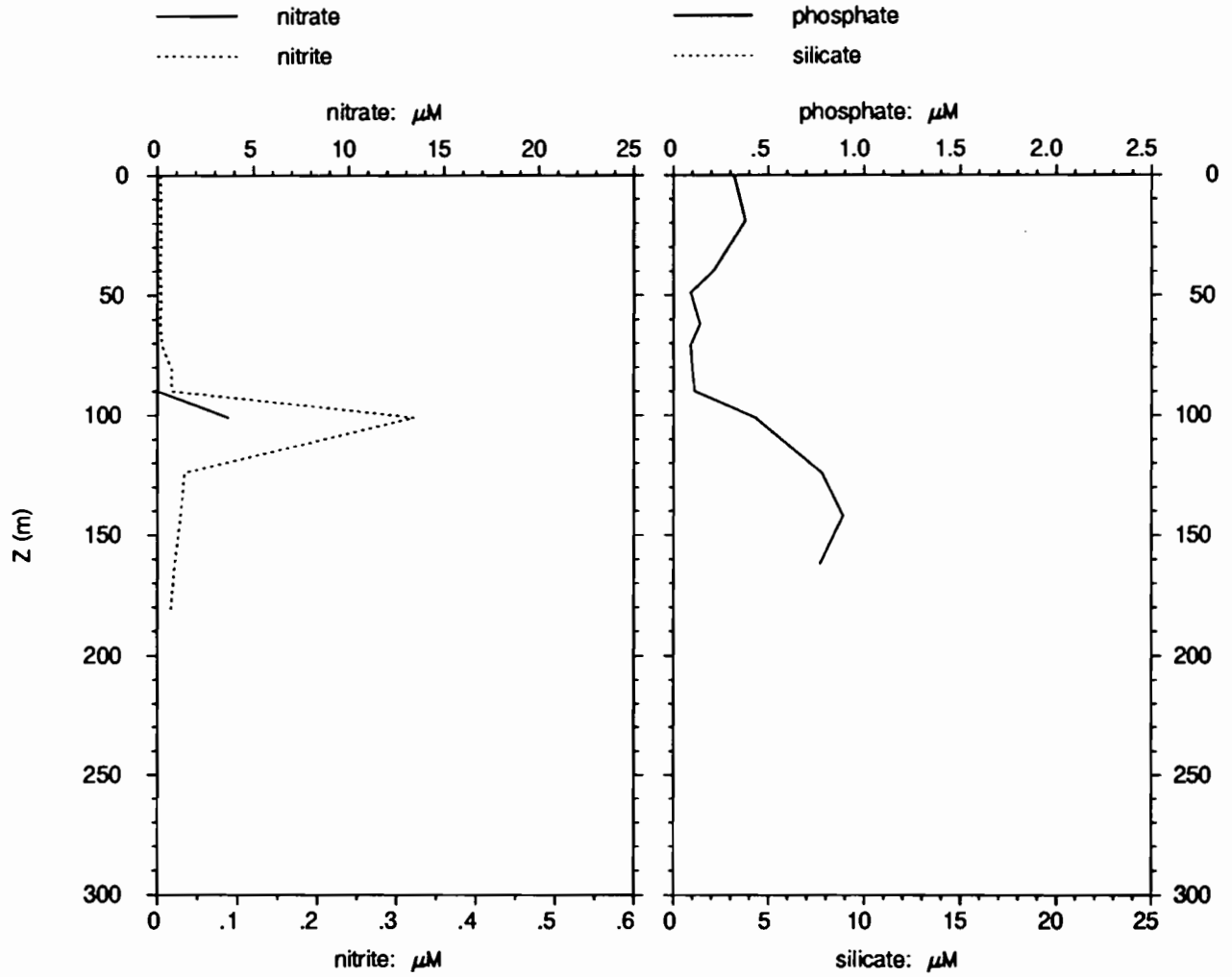
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.777	34.075		
20.0	28.806	34.130		
30.0	28.811	34.160		
40.0	28.811	34.162		
50.0	28.816	34.168		
75.0	28.683	34.278		
100.0	26.119	35.037		
125.0	23.092	35.143		
150.0	20.180	35.133		
200.0	15.719	35.240		
250.0	12.128	34.890		
300.0	11.646	34.842		
400.0	9.938	34.726		
500.0	8.030	34.613		

# EQUALIS - station 4

1°28 S 156°15 E

12/11/92, 4h25 TU

12/11/92, 14h25 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.004	0.32	
19	0.000	0.005	0.38	
40	0.000	0.004	0.21	
49	0.000	0.005	0.09	
62	0.001	0.004	0.14	
71	0.001	0.006	0.09	
81	0.073	0.018	0.10	
90	0.028	0.018	0.11	
101	3.69	0.322	0.43	
124		0.034	0.78	
142		0.029	0.89	
162		0.022	0.77	
181		0.017		

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	28.88	34.11	0.136	0.069	33.65
19	28.82	34.16	0.118	0.057	32.74
40	28.82	34.16	0.122	0.077	38.72
49	28.82	34.16	0.100	0.076	43.09
62	28.79	34.19	0.137	0.084	37.89
71	28.71	34.18	0.153	0.105	40.81
81	28.54	34.11	0.163	0.137	45.55
90	26.93	34.21	0.214	0.207	49.11
101	25.47	35.08	0.121	0.211	63.52
124	22.97	34.65	0.031	0.038	54.91
142	21.20	35.03	0.024	0.039	62.13
162	19.99	34.61	0.018	0.025	58.99
181	17.53	35.39	0.010	0.020	66.47

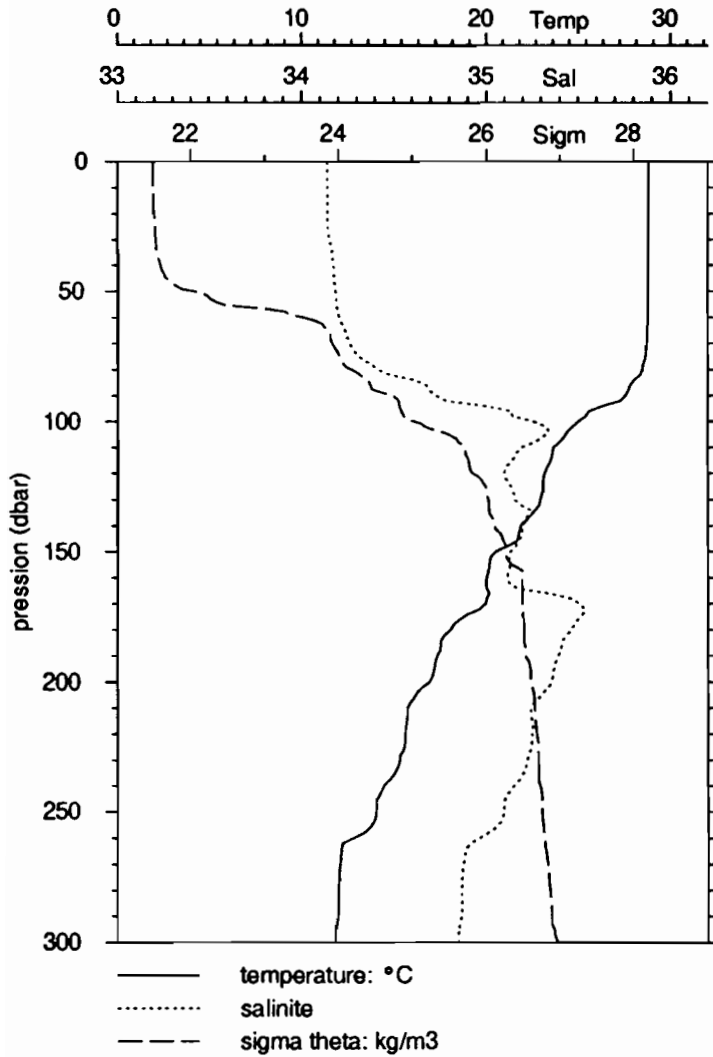


# EQUALIS -station 5

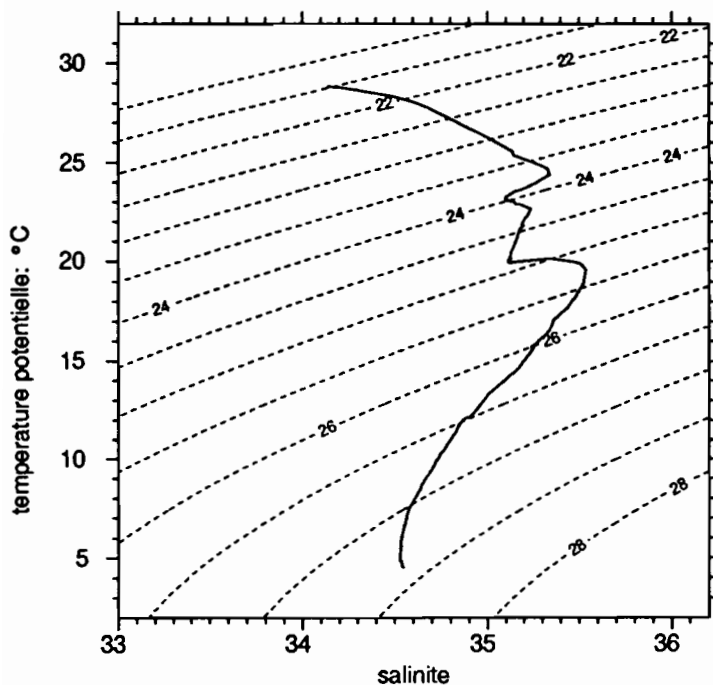
12/11/92, 7h25 TU

1°30 S 156°16 E

12/11/92, 17h25 locale



	P	T	S
debut	4.0	28.814	34.141
fin	1000.0	4.550	34.549



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.822	34.141		
20.0	28.826	34.143		
30.0	28.828	34.152		
40.0	28.826	34.174		
50.0	28.815	34.185		
75.0	28.646	34.313		
100.0	25.006	35.259		
125.0	23.089	35.133		
150.0	20.483	35.130		
200.0	16.919	35.356		
250.0	14.037	35.093		
300.0	11.821	34.849		
400.0	10.155	34.740		
500.0	8.098	34.615		
600.0	6.670	34.553		
700.0	6.115	34.539		
800.0	5.627	34.534		
900.0	4.918	34.536		
1000.0	4.550	34.549		

# EQUALIS - station 5

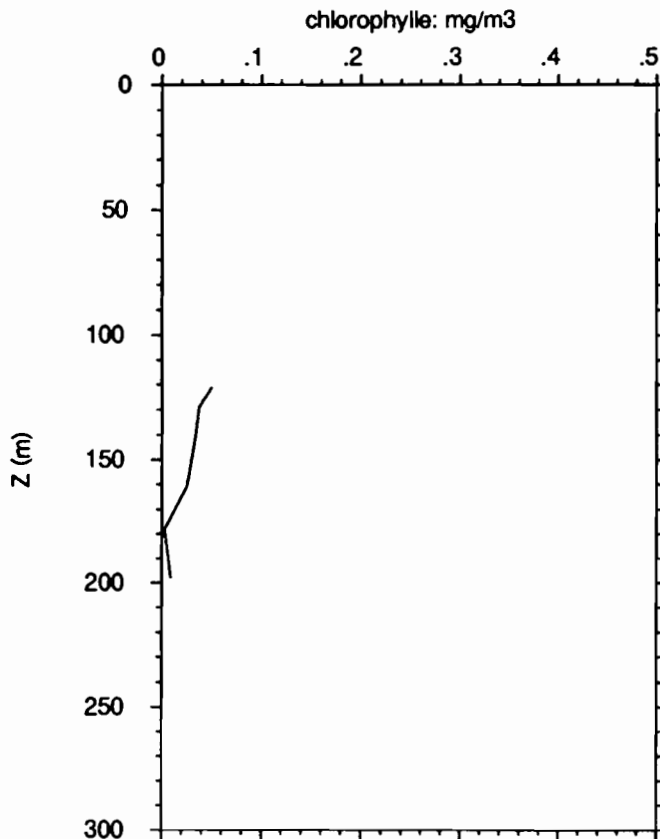
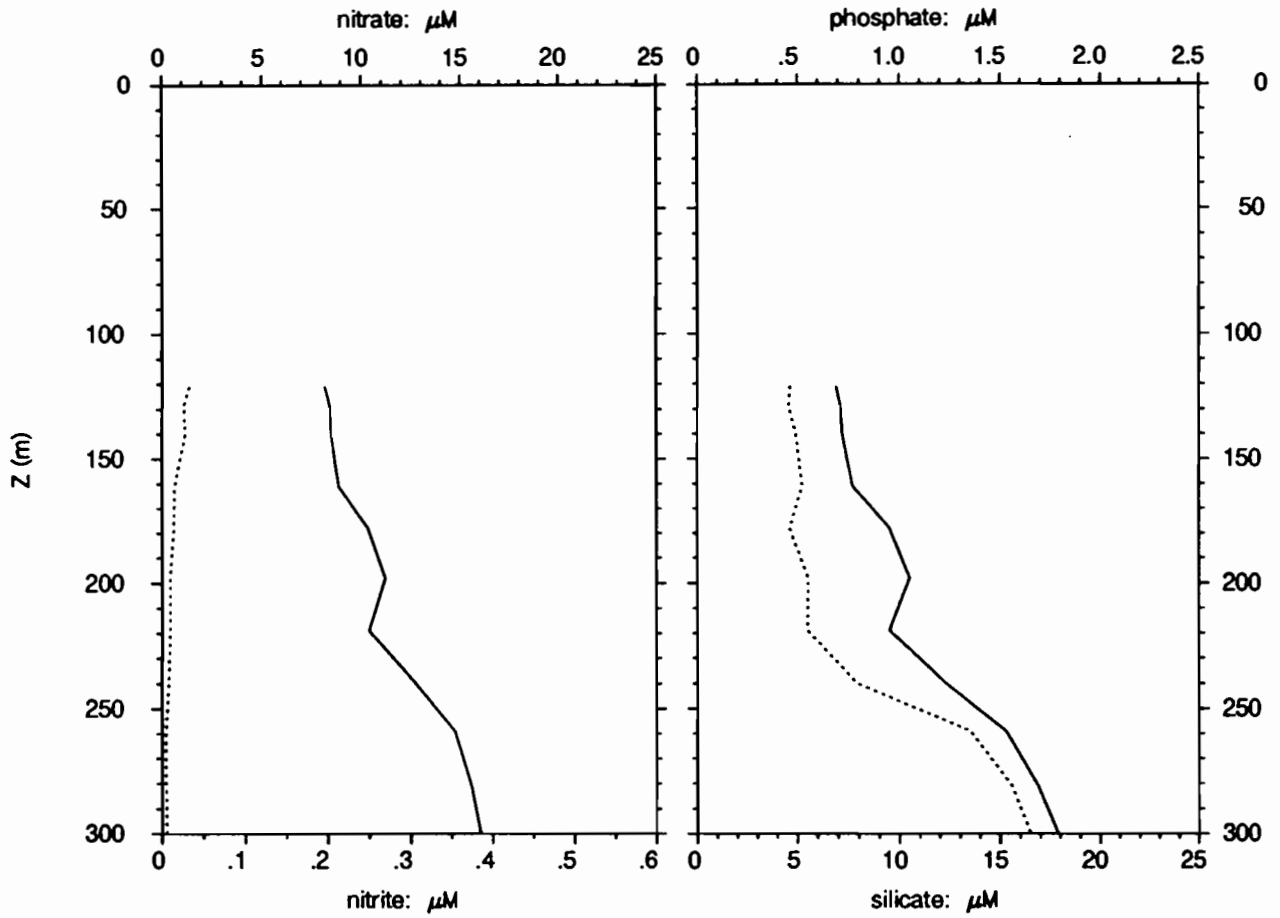
1°30 S 156°16 E

12/11/92, 7h25 TU

12/11/92, 17h25 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
121	8.18	0.033	0.69	4.6
129	8.44	0.026	0.71	4.6
140	8.49	0.028	0.72	4.9
161	8.89	0.015	0.77	5.2
178	10.36	0.014	0.95	4.6
198	11.20	0.010	1.05	5.5
219	10.41	0.010	0.95	5.5
240	12.74	0.008	1.23	7.9
259	14.73	0.005	1.53	13.5
281	15.59	0.005	1.69	15.6
302	16.10	0.006	1.80	16.6
1000	19.60	0.001	2.92	57.9

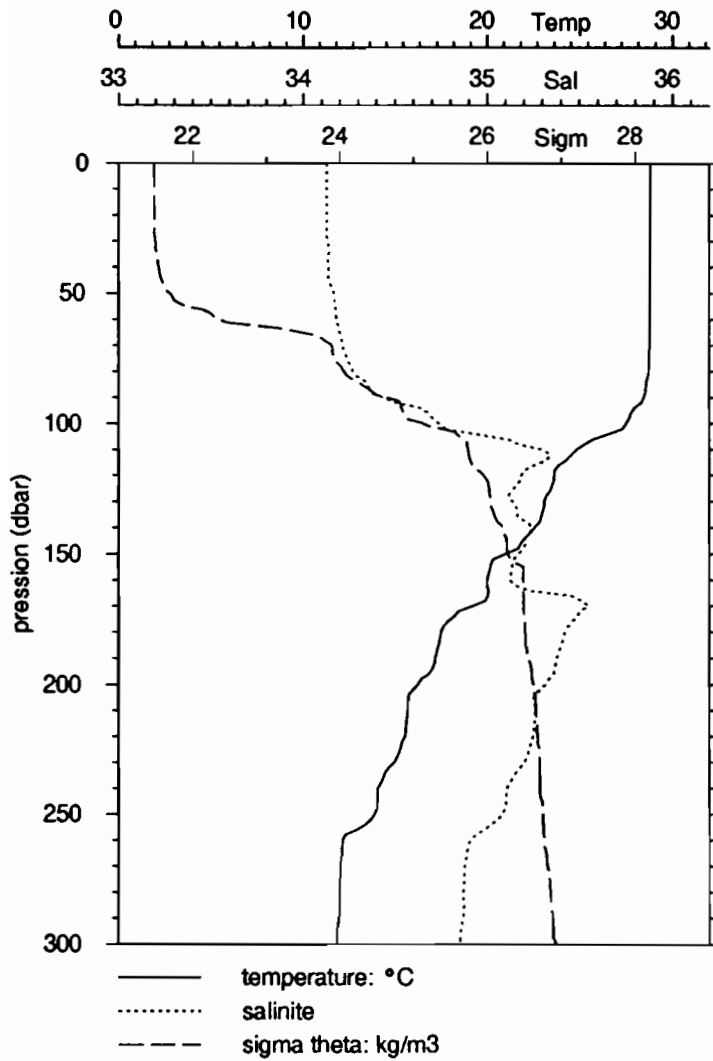
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
121	23.12	35.00	0.050	0.119	70.56
129	22.85	34.68	0.037	0.111	74.91
140	21.82	35.18	0.034	0.051	60.43
161	20.09	34.73	0.025	0.046	65.09
178	17.48	34.78	0.003	0.040	93.57
198	16.19	34.67	0.009	0.035	79.78
219	15.54	34.54			
240	14.21	34.09			
259	12.25	34.78			
281	12.01	34.81			
302	11.82	34.85			
1000	4.55	34.55			

# EQUALIS -station 6

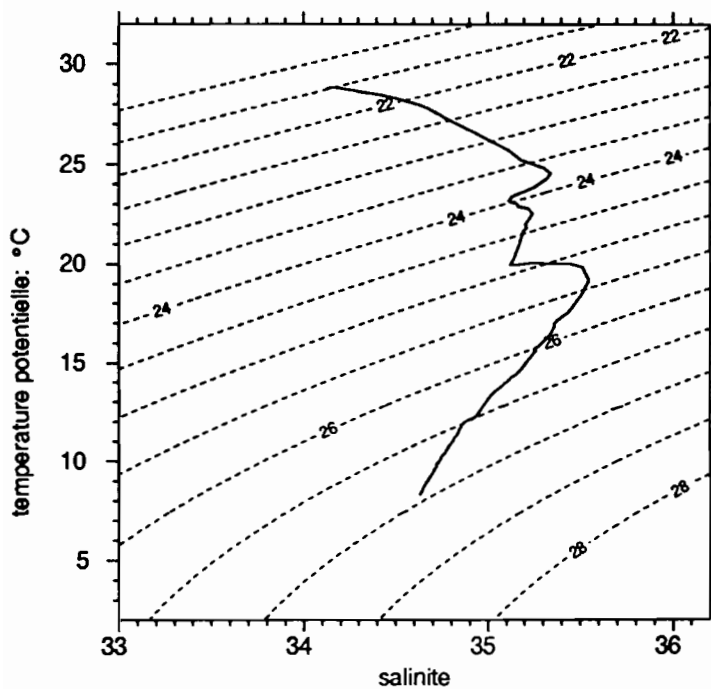
12/11/92, 8h50 TU

1° 30 S 156° 15 E

12/11/92, 18h50 locale



	P	T	S
debut	6.0	28.798	34.128
fin	504.0	8.340	34.632



P dbar	T °C	S	U cm/s	V cm/s
10.0	28.798	34.129		
20.0	28.809	34.130		
30.0	28.815	34.133		
40.0	28.823	34.140		
50.0	28.843	34.168		
75.0	28.754	34.240		
100.0	27.505	34.739		
125.0	23.459	35.144		
150.0	20.979	35.170		
200.0	16.229	35.316		
250.0	13.897	35.082		
300.0	11.820	34.853		
400.0	10.292	34.748		
500.0	8.459	34.638		

# EQUALIS - station 6

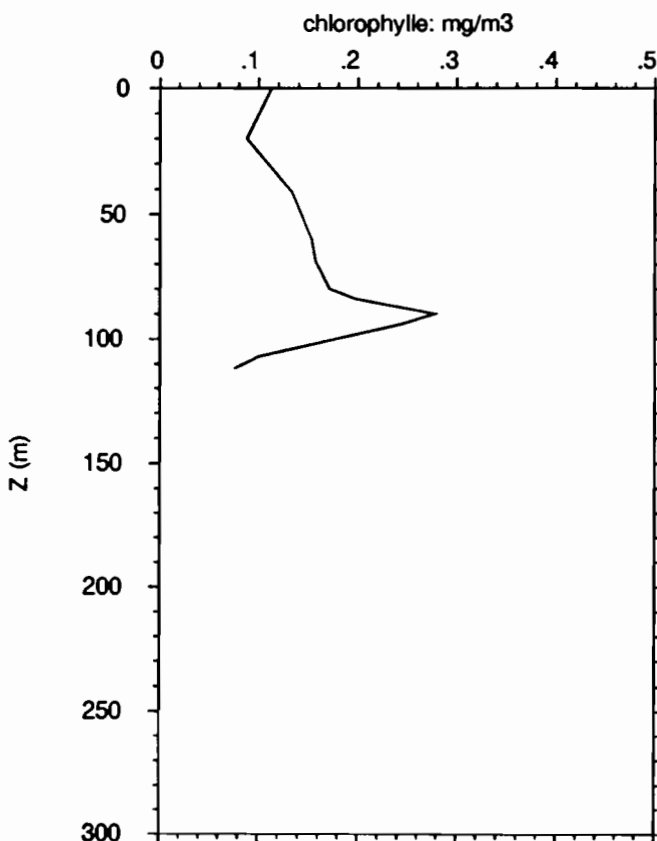
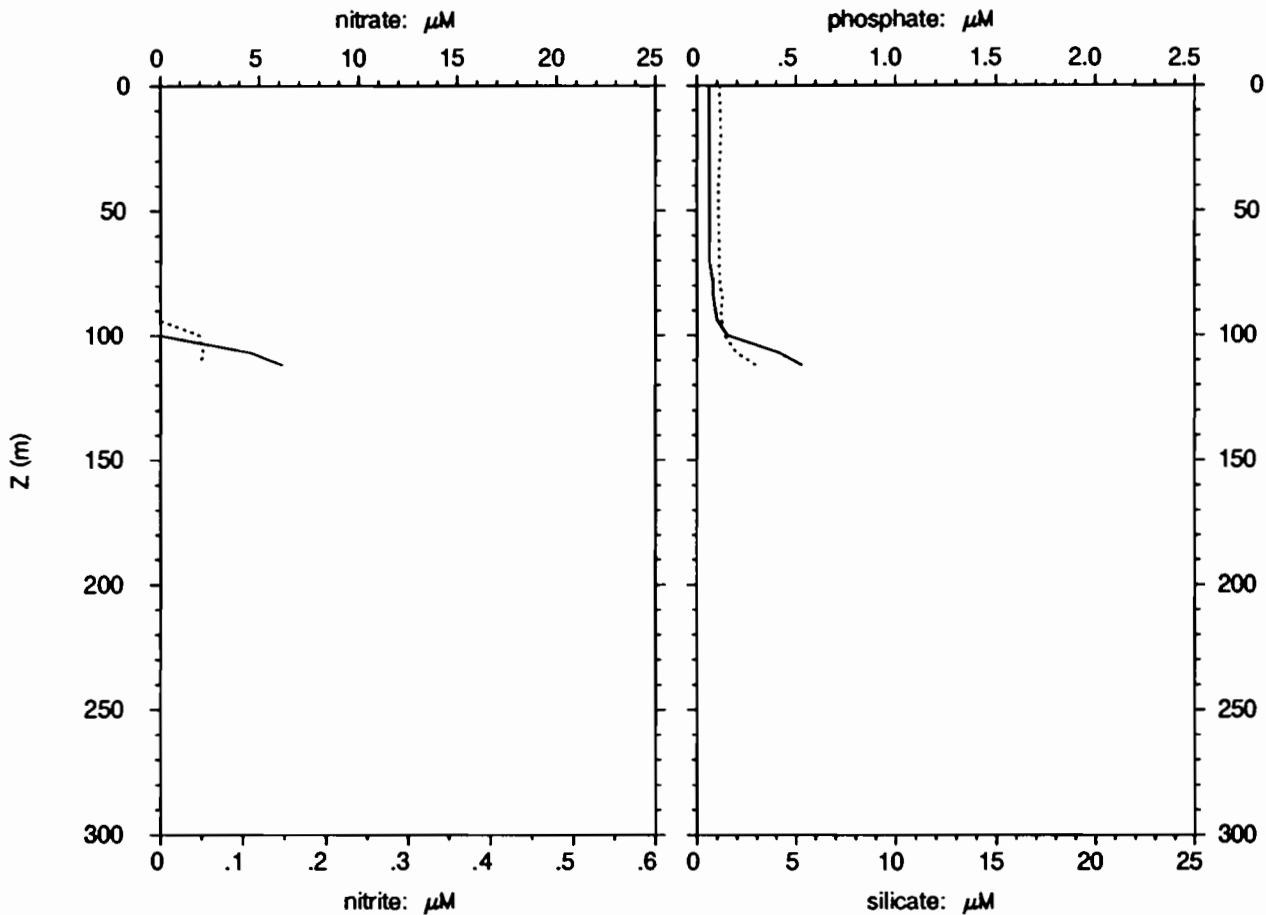
1°30 S 156°15 E

12/11/92, 8h50 TU

12/11/92, 18h50 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.015	0.000	0.06	1.1
20	0.011	0.000	0.06	1.2
41	0.013	0.000	0.06	1.0
50	0.011	0.000	0.06	1.1
60	0.011	0.000	0.06	1.1
69	0.014	0.000	0.06	1.1
80	0.011	0.000	0.08	1.1
84	0.012	0.000	0.08	1.3
90	0.013	0.001	0.09	1.2
94	0.014	0.000	0.10	1.2
100	0.000	0.048	0.15	1.4
107	4.58	0.052	0.41	2.0
112	6.15	0.048	0.53	2.9

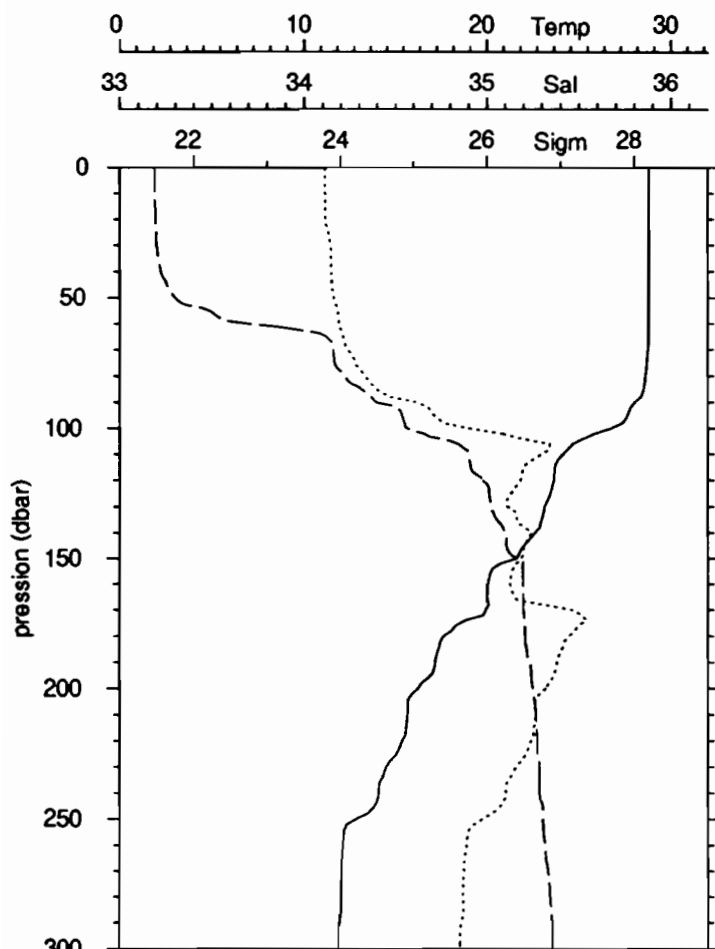
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	28.90	34.16	0.113	0.058	33.82
20	28.80	34.13	0.088	0.050	36.02
41	28.84	34.16	0.133	0.063	32.08
50	28.84	34.16			
60	28.81	34.18	0.153	0.089	36.62
69	28.76	34.21	0.157	0.112	41.69
80	28.52	34.33	0.171	0.138	44.66
84	28.44	34.23	0.197	0.180	47.73
90	27.77	34.58	0.278	0.221	44.27
94	27.50	34.49	0.244	0.257	51.29
100	26.30	34.62	0.176	0.238	57.47
107	24.71	35.11	0.100	0.163	62.02
112	24.09	35.25	0.076	0.133	63.52

# EQUALIS -station 7

12/11/92, 10h10 TU

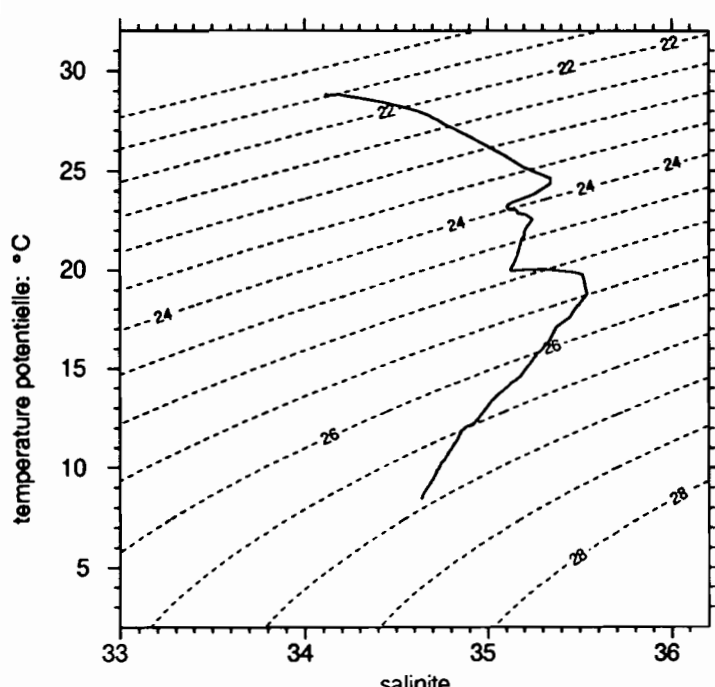
1° 30 S 156° 15 E

12/11/92, 20h10 locale



— temperature: °C  
 ..... salinity  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	28.788	34.114
fin	506.0	8.485	34.639



P dbar	T °C	S	U cm/s	V cm/s
10.0	28.788	34.113		
20.0	28.798	34.115		
30.0	28.822	34.143		
40.0	28.822	34.148		
50.0	28.831	34.160		
75.0	28.687	34.281		
100.0	26.705	34.905		
125.0	23.435	35.130		
150.0	21.610	35.187		
200.0	16.240	35.318		
250.0	12.805	34.974		
300.0	11.824	34.854		
400.0	10.285	34.747		
500.0	8.765	34.650		

# EQUALIS - station 7

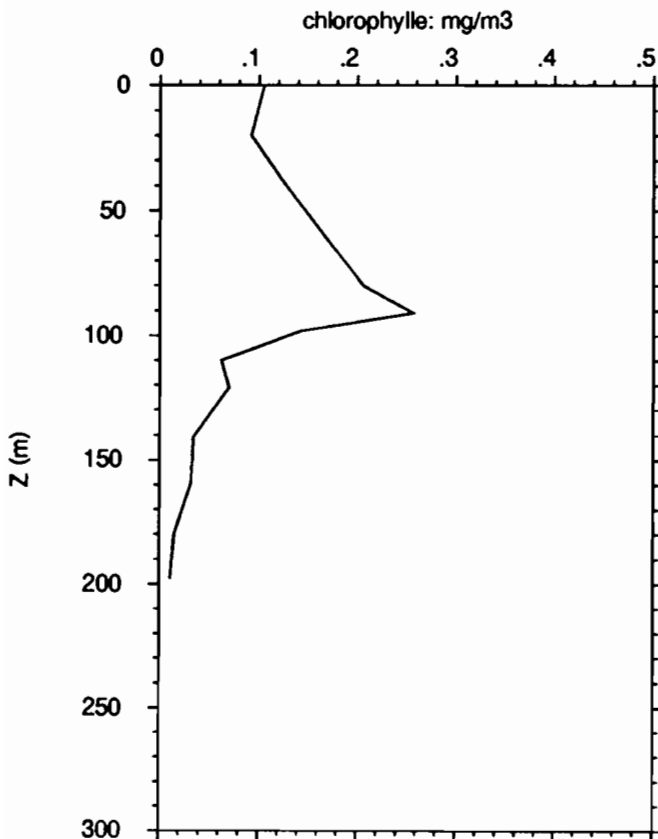
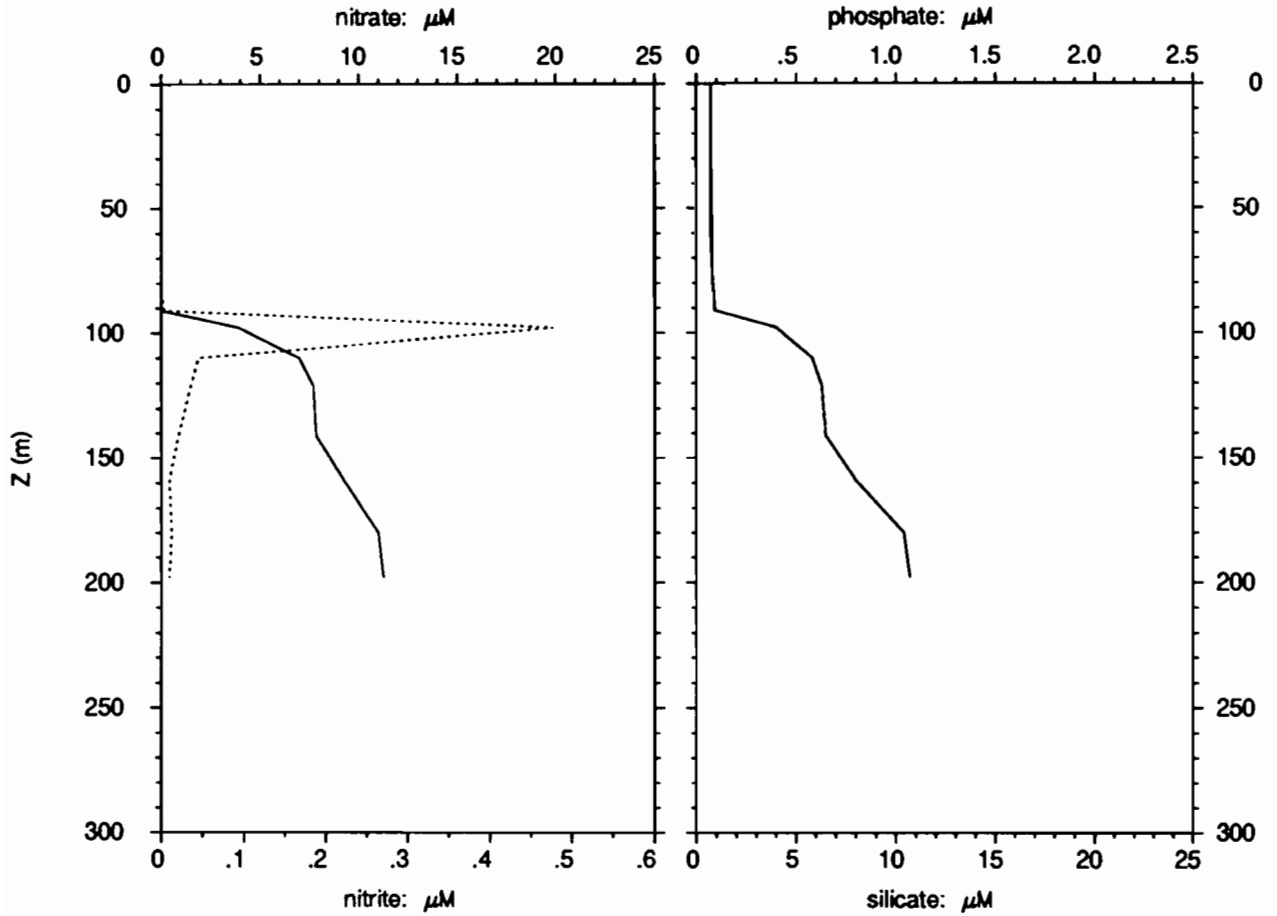
1°30 S 156°15 E

12/11/92, 10h10 TU

12/11/92, 20h10 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.006	0.000	0.07	
20	0.008	0.000	0.07	
39	0.005	0.000	0.07	
59	0.005	0.000	0.07	
80	0.013	0.000	0.08	
91	0.009	0.003	0.09	
98	3.92	0.477	0.40	
110	6.99	0.045	0.58	
121	7.71	0.036	0.63	
141	7.85	0.021	0.65	
159	9.28	0.010	0.80	
180	11.00	0.013	1.04	
198	11.25	0.010	1.07	

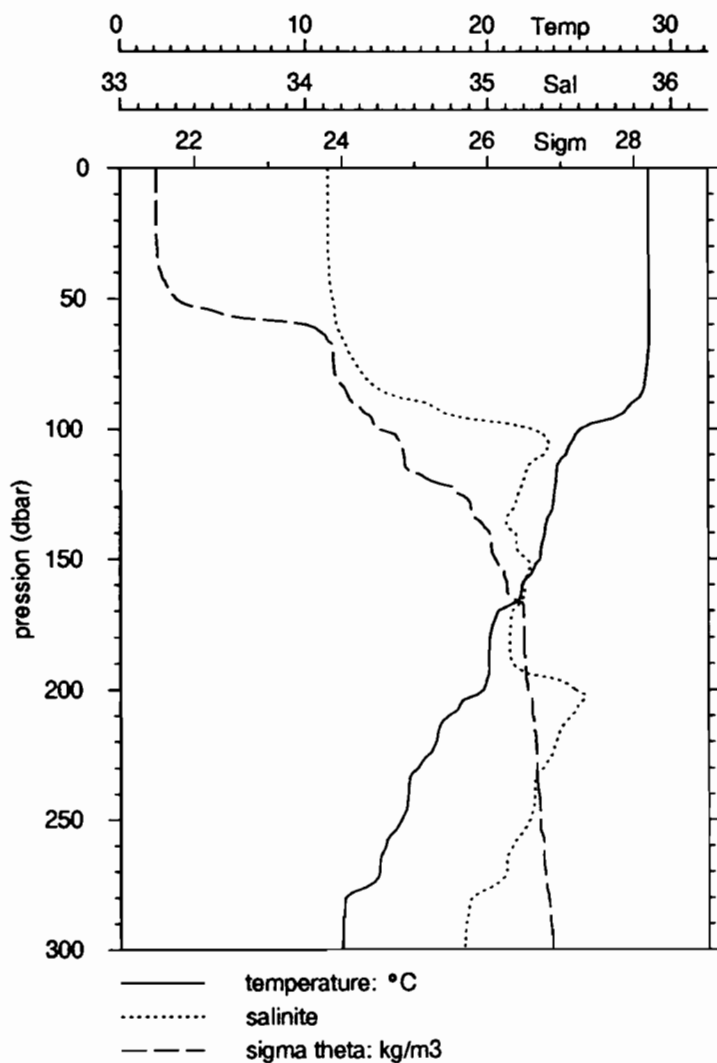
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	28.90	34.15	0.105	0.063	37.26
20	28.80	34.12	0.092	0.062	40.22
39	28.83	34.15	0.126	0.087	40.78
59	28.80	34.14			
80	28.59	34.12	0.206	0.158	43.28
91	27.57	33.85	0.257	0.254	49.71
98	25.03	35.02	0.143	0.260	64.46
110	23.68	35.11	0.062	0.132	68.11
121	23.47	34.92	0.070	0.127	64.47
141	22.47	34.28	0.034	0.046	57.57
159	18.77	34.74	0.032	0.039	54.67
180	18.23	34.27	0.015	0.007	33.52
198	16.63	35.31	0.011	0.017	61.57

# EQUALIS -station 8

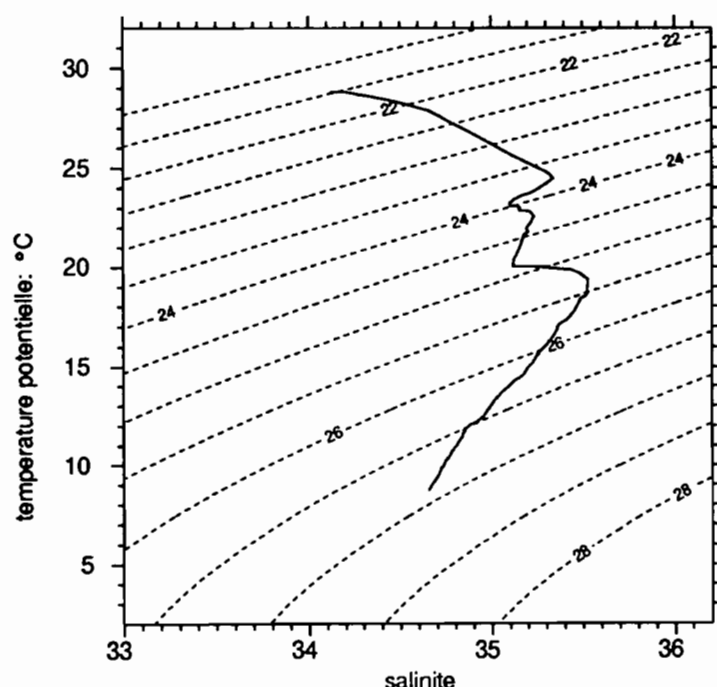
12/11/92, 13h 4 TU

1°30 S 156°15 E

12/11/92, 23h 4 locale



	P	T	S
debut	6.0	28.774	34.126
fin	504.0	8.770	34.652



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.779	34.125		
20.0	28.780	34.125		
30.0	28.779	34.125		
40.0	28.796	34.133		
50.0	28.809	34.151		
75.0	28.698	34.274		
100.0	25.053	35.243		
125.0	23.630	35.167		
150.0	22.859	35.215		
200.0	19.752	35.475		
250.0	15.254	35.228		
300.0	12.018	34.870		
400.0	10.502	34.769		
500.0	8.782	34.654		

# EQUALIS - station 8

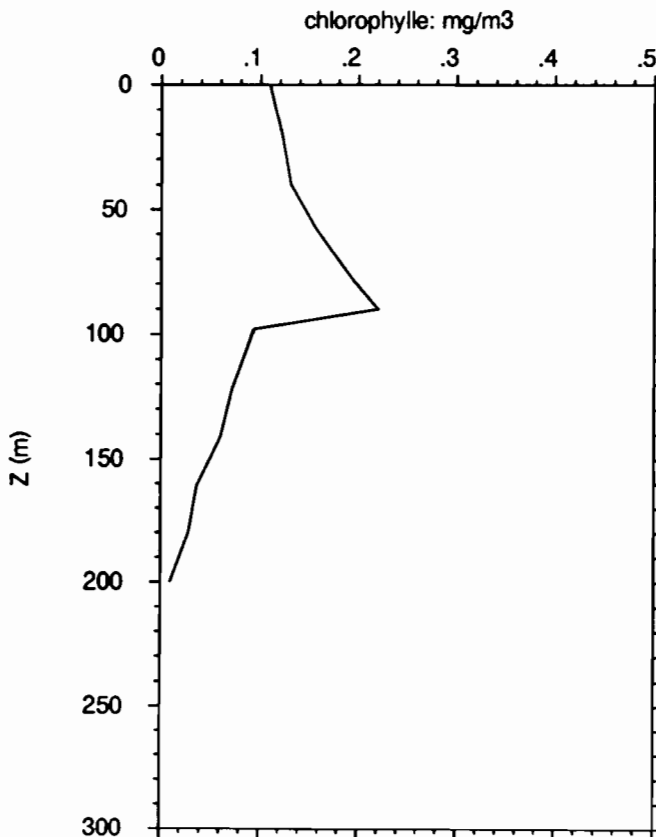
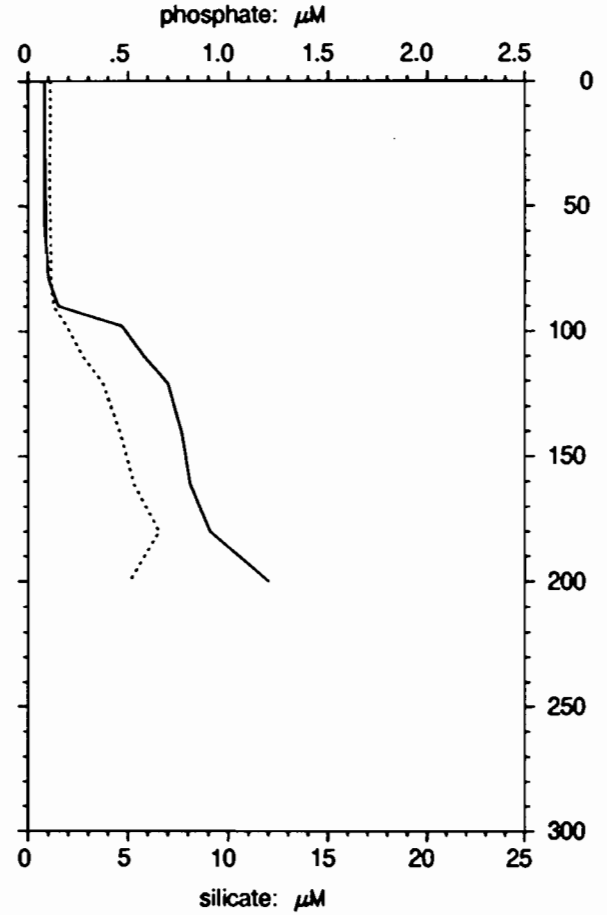
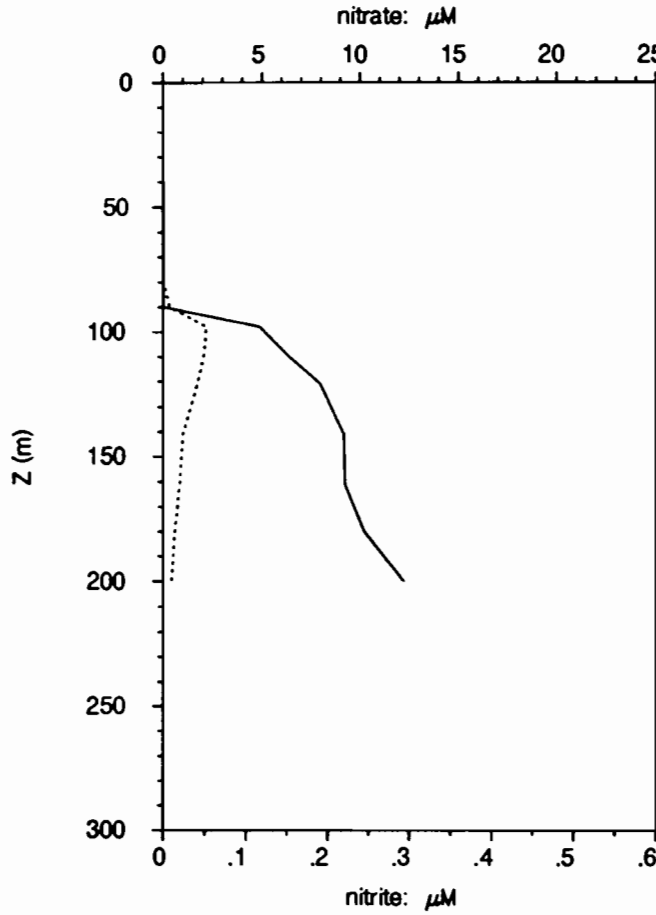
1°30 S 156°15 E

12/11/92, 13h 4 TU

12/11/92, 23h 4 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.010	0.000	0.08	1.1
20	0.008	0.000	0.08	1.1
40	0.007	0.000	0.08	1.0
58	0.005	0.000	0.08	1.1
79	0.005	0.000	0.10	1.1
90	0.023	0.008	0.15	1.2
98	4.87	0.052	0.47	1.9
110	6.38	0.049	0.58	2.7
121	7.95	0.041	0.70	3.7
141	9.16	0.024	0.77	4.6
161	9.22	0.020	0.81	5.3
180	10.20	0.014	0.91	6.6
200	12.22	0.010	1.20	5.1

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	28.88	34.16	0.109	0.072	39.93
20	28.79	34.15	0.122	0.052	29.96
40	28.80	34.17	0.131	0.059	30.90
58	28.77	34.15	0.157	0.090	36.37
79	28.60	34.07	0.196	0.149	43.10
90	26.68	34.53	0.220	0.244	52.61
98	24.73	35.11	0.093	0.163	63.61
110	24.11	35.17			
121	23.66	35.08	0.072	0.138	65.77
141	22.92	35.09	0.060	0.149	71.08
161	21.65	34.95	0.036	0.043	54.99
180	20.05	34.89	0.028	0.036	56.12
200	18.26	35.44	0.010	0.024	70.10

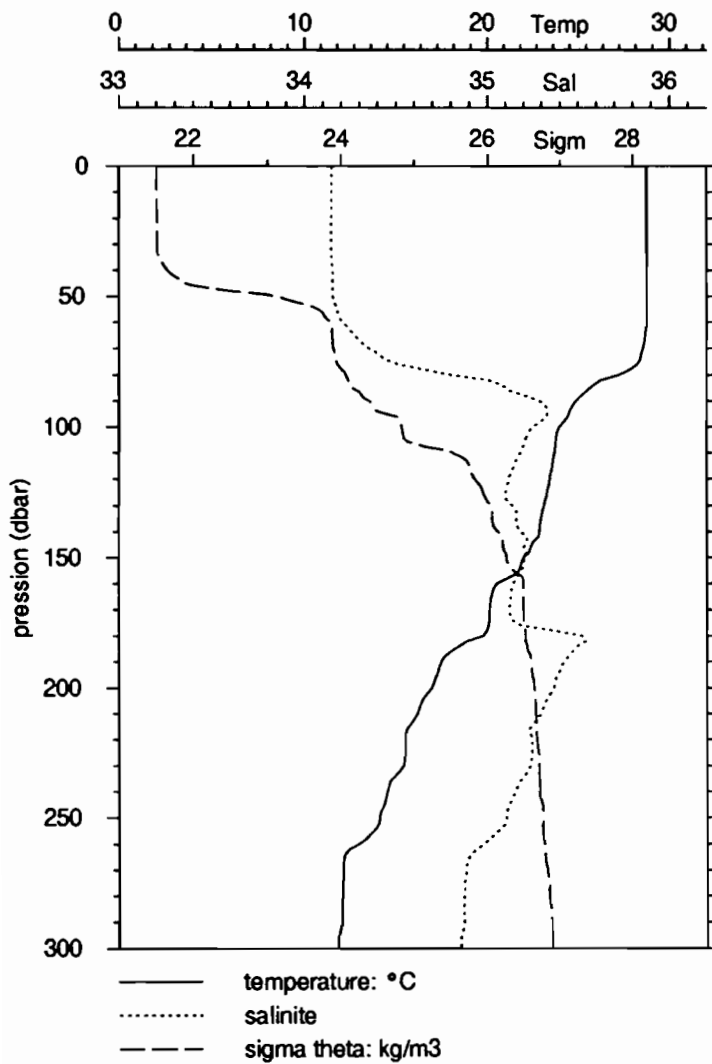


# EQUALIS -station 9

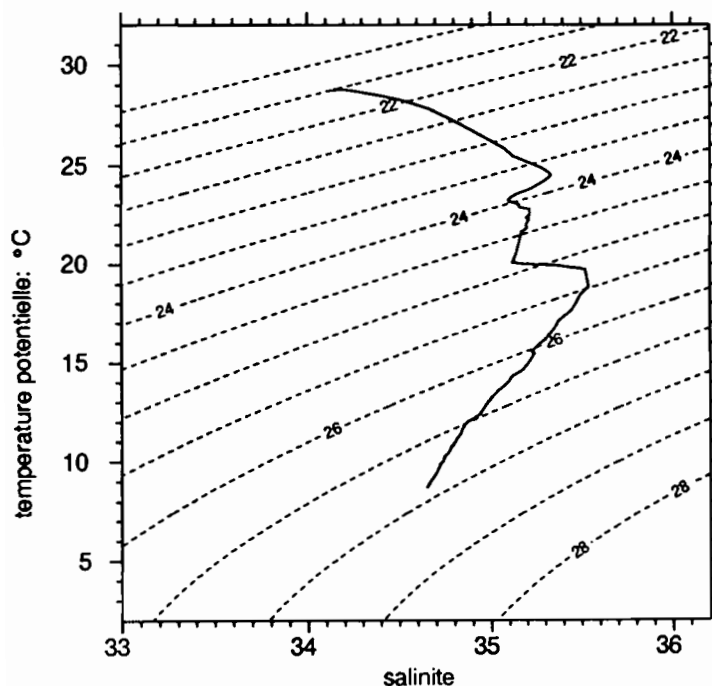
12/11/92, 16h10 TU

1°30 S 156°15 E

13/11/92, 2h10 locale



	P	T	S
debut	8.0	28.767	34.149
fin	502.0	8.752	34.648



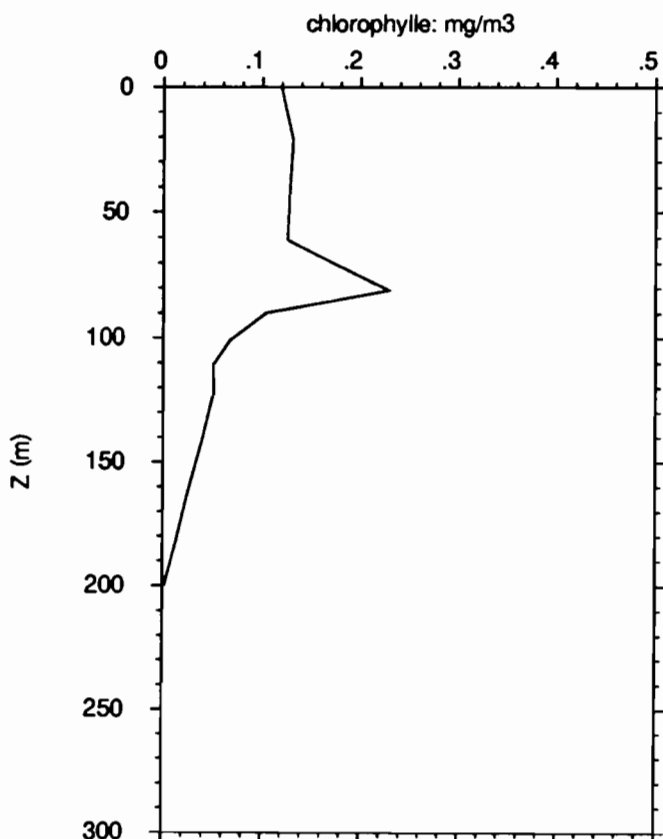
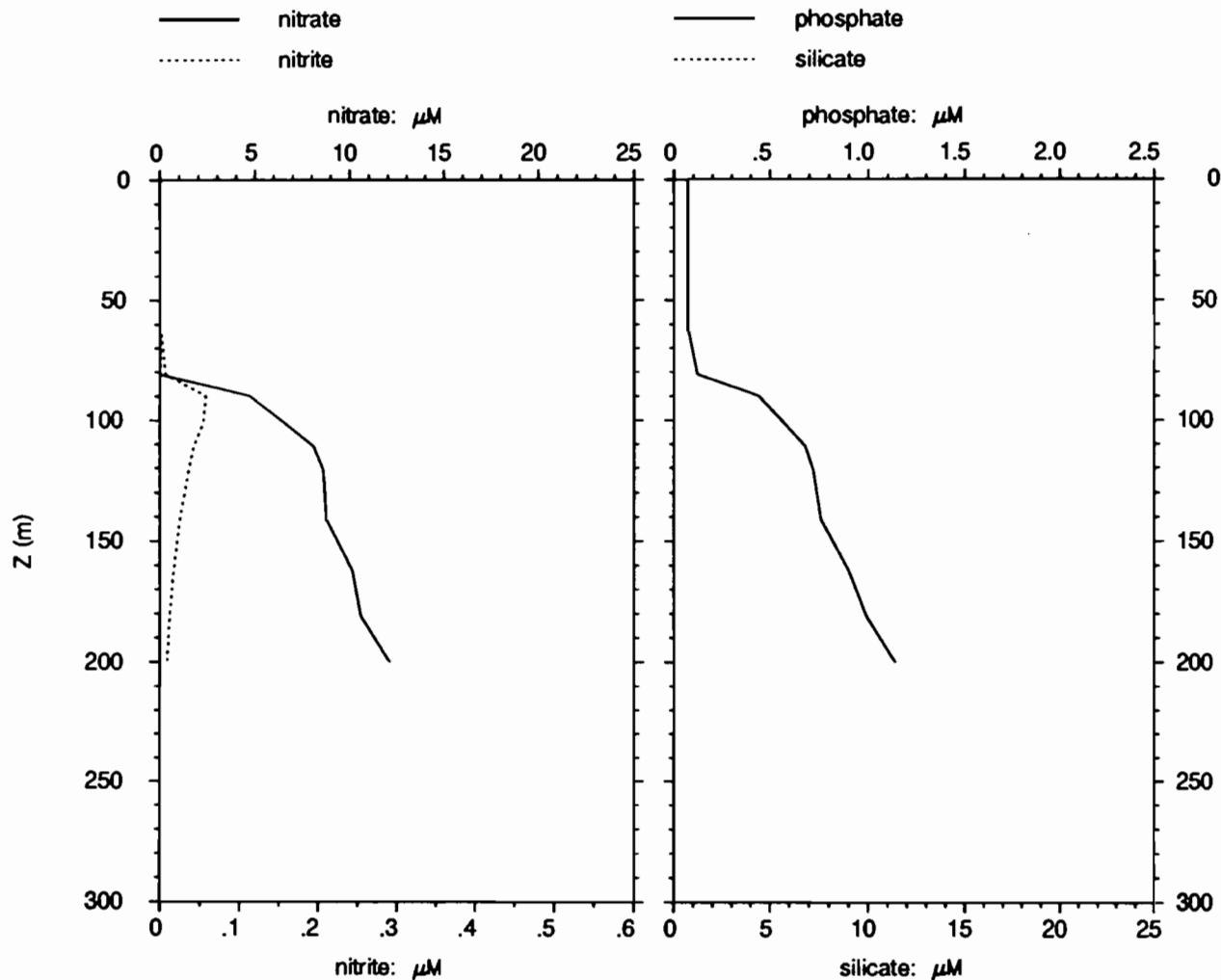
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.767	34.149		
20.0	28.764	34.147		
30.0	28.759	34.147		
40.0	28.777	34.153		
50.0	28.782	34.154		
75.0	28.338	34.474		
100.0	23.949	35.248		
125.0	23.279	35.099		
150.0	21.961	35.194		
200.0	16.938	35.364		
250.0	14.086	35.102		
300.0	11.822	34.854		
400.0	10.292	34.747		
500.0	8.755	34.649		

# EQUALIS - station 9

1°30 S 156°15 E

12/11/92, 16h10 TU

13/11/92, 2h10 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.001	0.07	
21	0.000	0.000	0.07	
40	0.000	0.001	0.07	
61	0.000	0.001	0.07	
81	0.008	0.007	0.12	
90	4.72	0.057	0.44	
101	6.54	0.054	0.57	
111	8.09	0.042	0.68	
121	8.60	0.036	0.72	
141	8.77	0.025	0.76	
162	10.14	0.017	0.90	
181	10.58	0.012	0.99	
200	12.11	0.009	1.14	

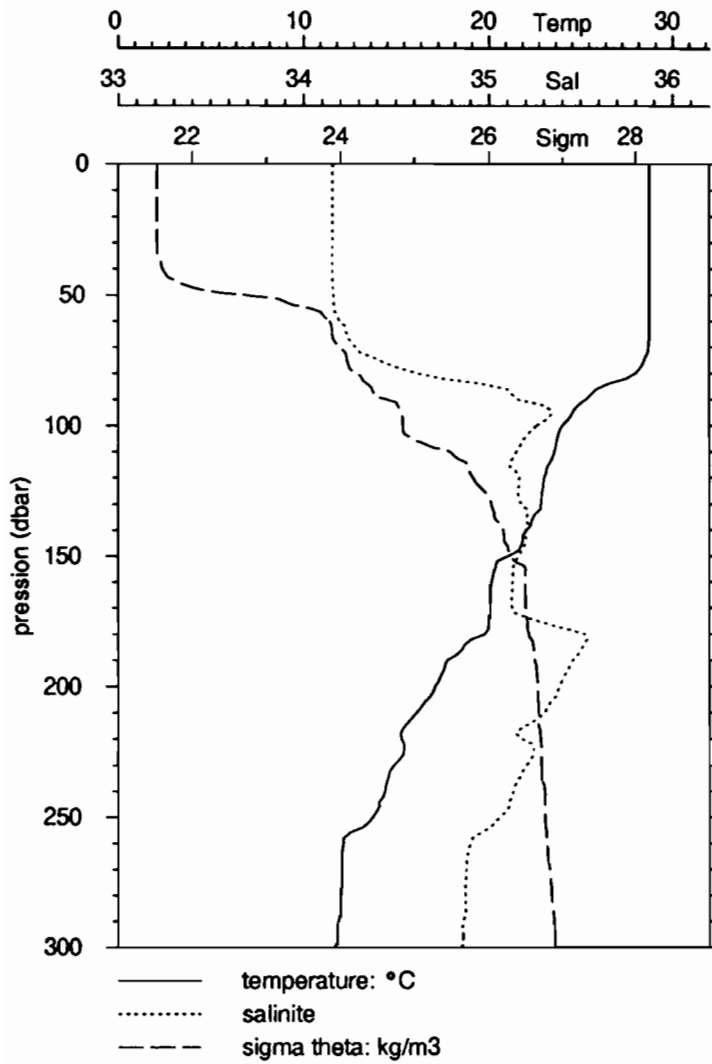
Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
0	28.85	34.18	0.119	0.087	42.15
21	28.76	34.14	0.131	0.078	37.36
40	28.77	34.14	0.128	0.084	39.76
61	28.73	33.78	0.126	0.088	41.01
81	27.21	34.20	0.229	0.249	52.05
90	24.82	35.17	0.104	0.187	64.26
101	23.82	35.12	0.067	0.157	69.97
111	23.55	35.06	0.050	0.133	72.59
121	23.36	34.91	0.051	0.137	72.95
141	22.54	34.84	0.039	0.082	68.02
162	20.31	35.04	0.025	0.058	70.09
181	18.72	35.11	0.014	0.039	74.09
200	16.54	35.30	0.002	0.033	93.31

# EQUALIS -station 10

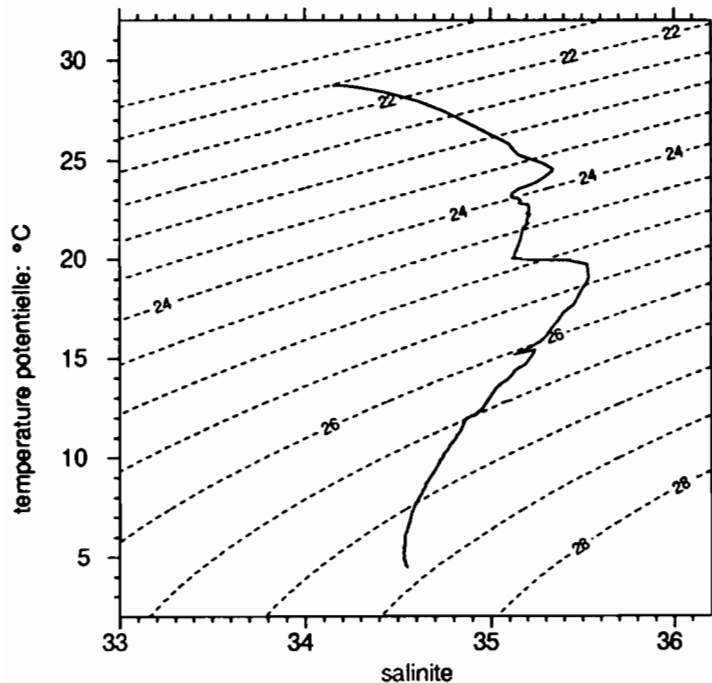
12/11/92, 19h 6 TU

1°30 S 156°15 E

13/11/92, 5h 6 locale



	P	T	S
debut	4.0	28.731	34.155
fin	998.0	4.575	34.549



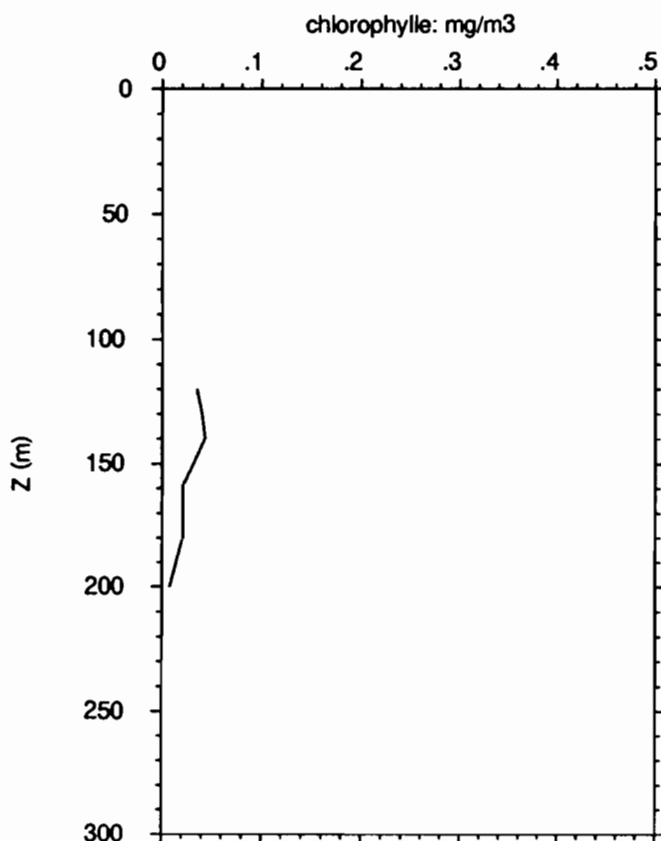
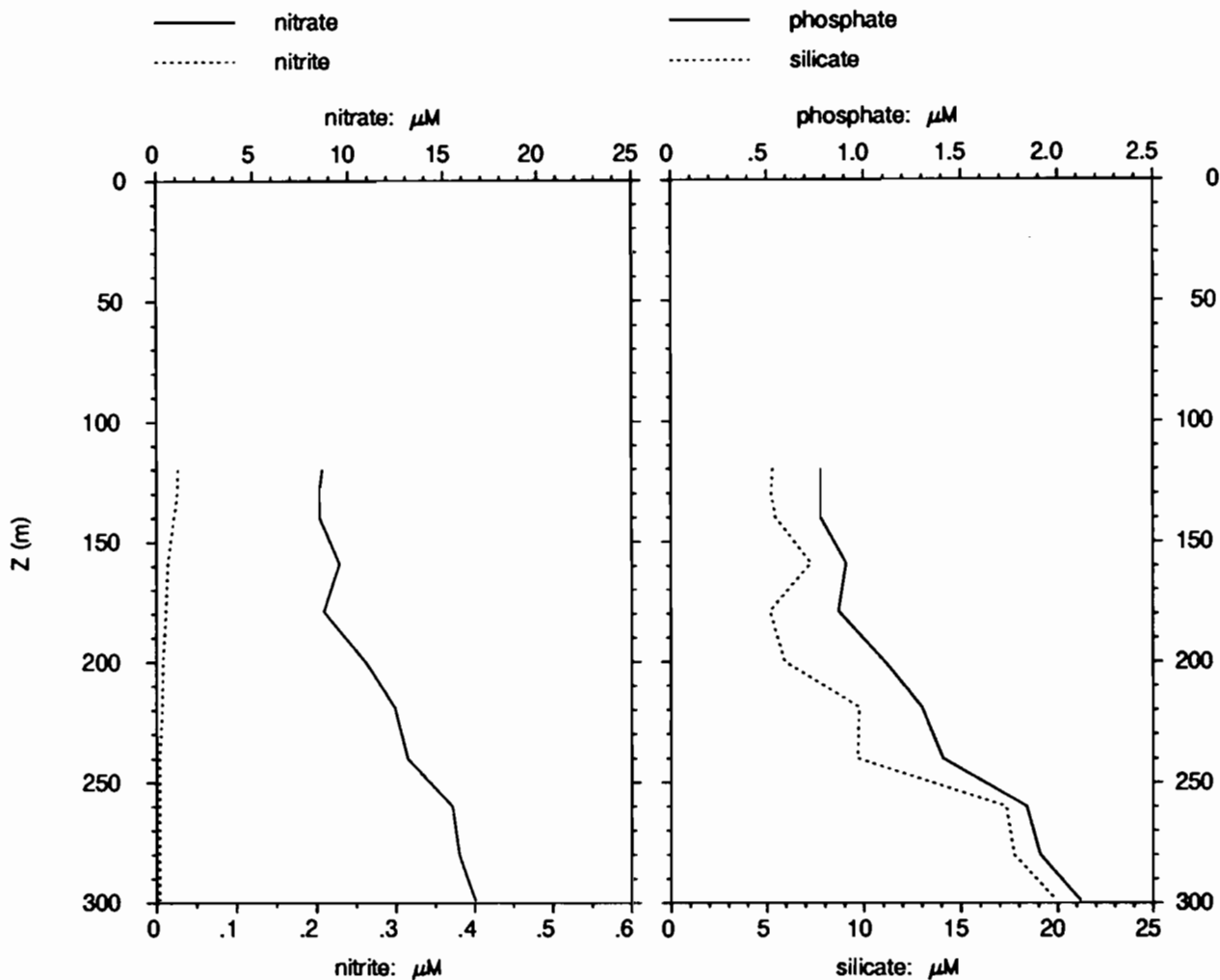
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.737	34.155		
20.0	28.741	34.155		
30.0	28.738	34.155		
40.0	28.744	34.154		
50.0	28.754	34.162		
75.0	28.467	34.409		
100.0	23.978	35.257		
125.0	22.905	35.159		
150.0	21.026	35.163		
200.0	17.114	35.382		
250.0	13.755	35.059		
300.0	11.674	34.852		
400.0	9.958	34.733		
500.0	8.752	34.652		
600.0	6.686	34.559		
700.0	6.208	34.542		
800.0	5.800	34.537		
900.0	4.921	34.534		

# EQUALIS - station 10

1° 30 S 156° 15 E

12/11/92, 19h 6 TU

13/11/92, 5h 6 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
120	8.65	0.027	0.78	5.3
130	8.49	0.026	0.78	5.2
140	8.51	0.022	0.78	5.5
159	9.55	0.014	0.91	7.3
179	8.73	0.012	0.87	5.2
200	10.91	0.008	1.11	5.9
219	12.43	0.007	1.30	9.8
240	13.11	0.004	1.41	9.7
260	15.49	0.004	1.84	17.3
280	15.85	0.004	1.91	17.8
299	16.70	0.004	2.12	19.9
1001	19.74	0.001	3.25	66.8

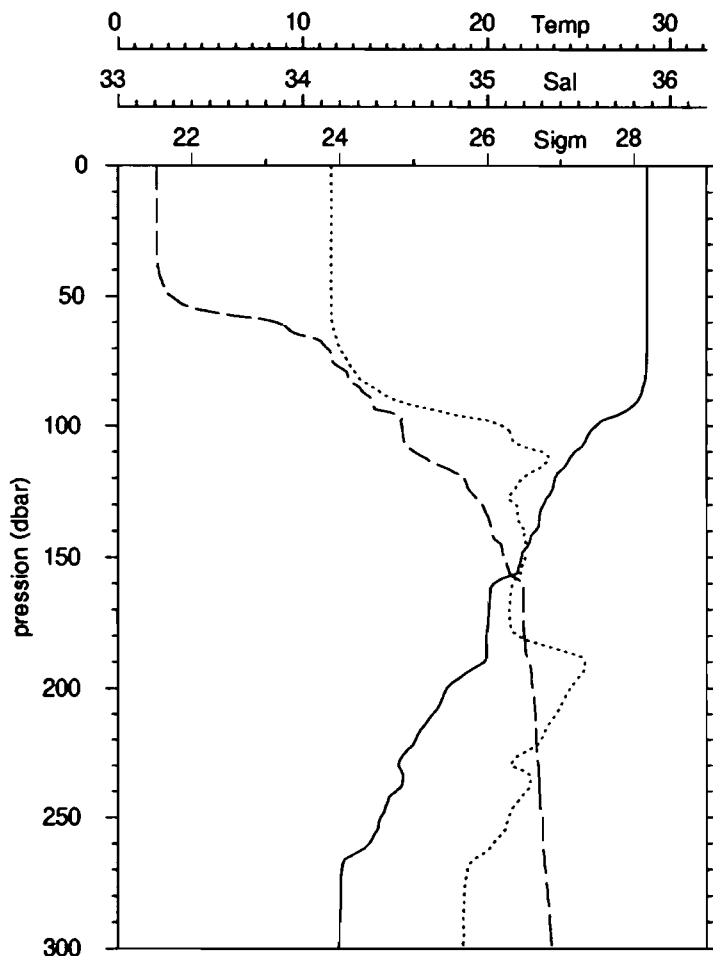
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
120	22.97	35.06	0.035	0.106	75.36
130	22.54	35.06	0.040	0.095	70.52
140	22.03	34.38	0.043	0.098	69.61
159	20.21	34.97	0.021	0.049	69.80
179	19.90	34.28	0.021	0.045	67.90
200	17.10	34.68	0.008	0.022	73.10
219	15.40	35.18			
240	14.10	33.89			
260	12.05	34.84			
280	12.00	34.86			
299	11.65	34.83			
1001	4.58	34.55			

# EQUALIS -station 11

1°30 S 156°15 E

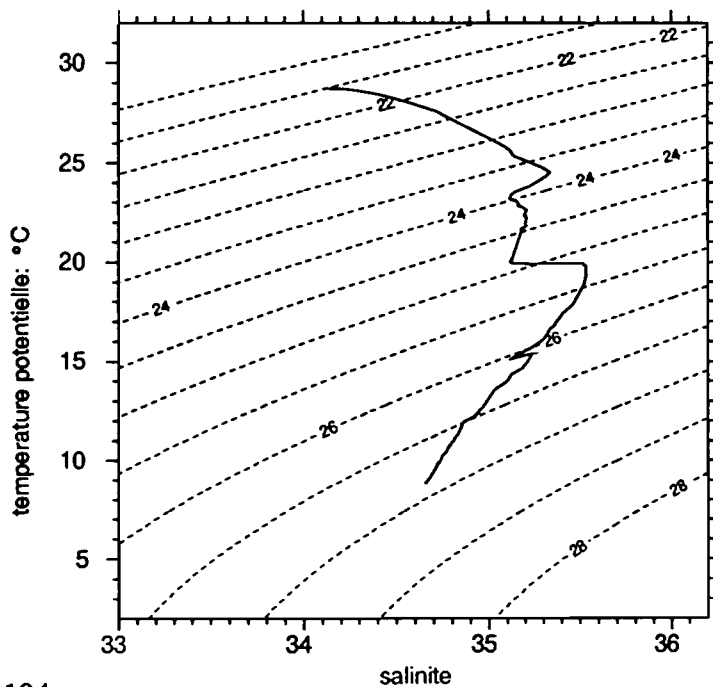
12/11/92, 20h52 TU

13/11/92, 6h52 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	28.726	34.153
fin	498.0	8.876	34.657



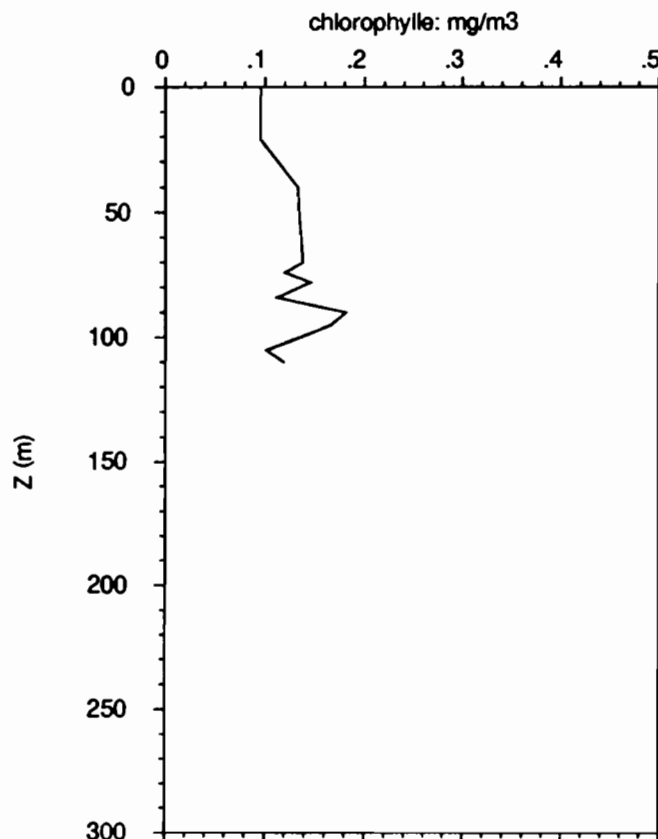
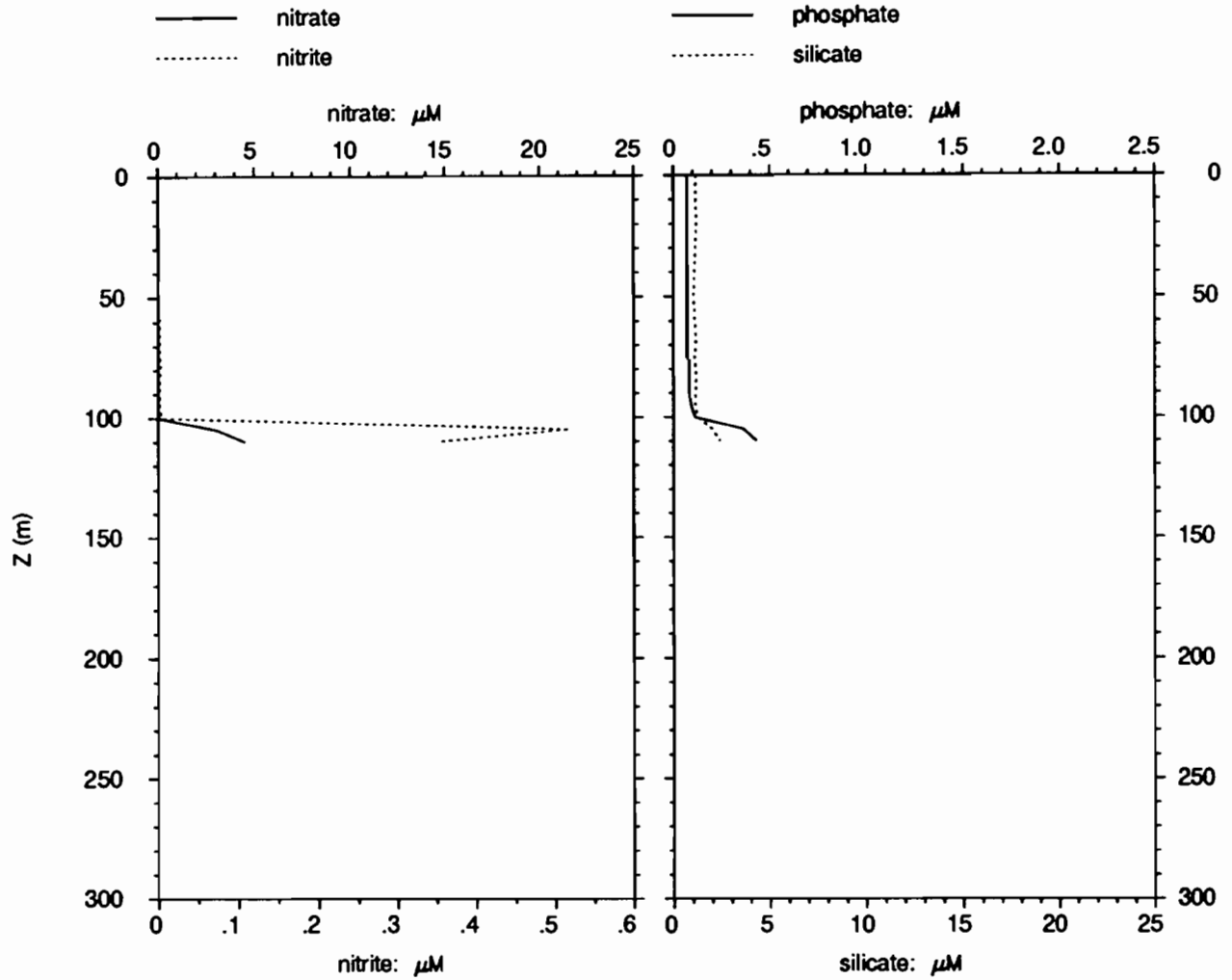
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.721	34.154		
20.0	28.729	34.154		
30.0	28.730	34.153		
40.0	28.733	34.153		
50.0	28.733	34.153		
75.0	28.697	34.243		
100.0	25.915	35.081		
125.0	23.505	35.139		
150.0	21.854	35.207		
200.0	17.782	35.453		
250.0	14.215	35.113		
300.0	11.932	34.863		
400.0	10.305	34.748		

# EQUALIS - station 11

1°30 S 156°15 E

12/11/92, 20h52 TU

13/11/92, 6h52 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.001	0.07	1.1
21	0.003	0.001	0.07	1.2
40	0.003	0.001	0.07	1.1
49	0.004	0.001	0.07	1.0
70	0.003	0.002	0.07	1.2
74	0.002	0.002	0.07	1.1
78	0.003	0.003	0.08	1.1
84	0.001	0.002	0.08	1.2
90	0.005	0.002	0.08	1.1
95	0.003	0.002	0.09	1.1
100	0.002	0.004	0.11	1.2
105	3.03	0.518	0.36	2.0
110	4.50	0.354	0.43	2.4

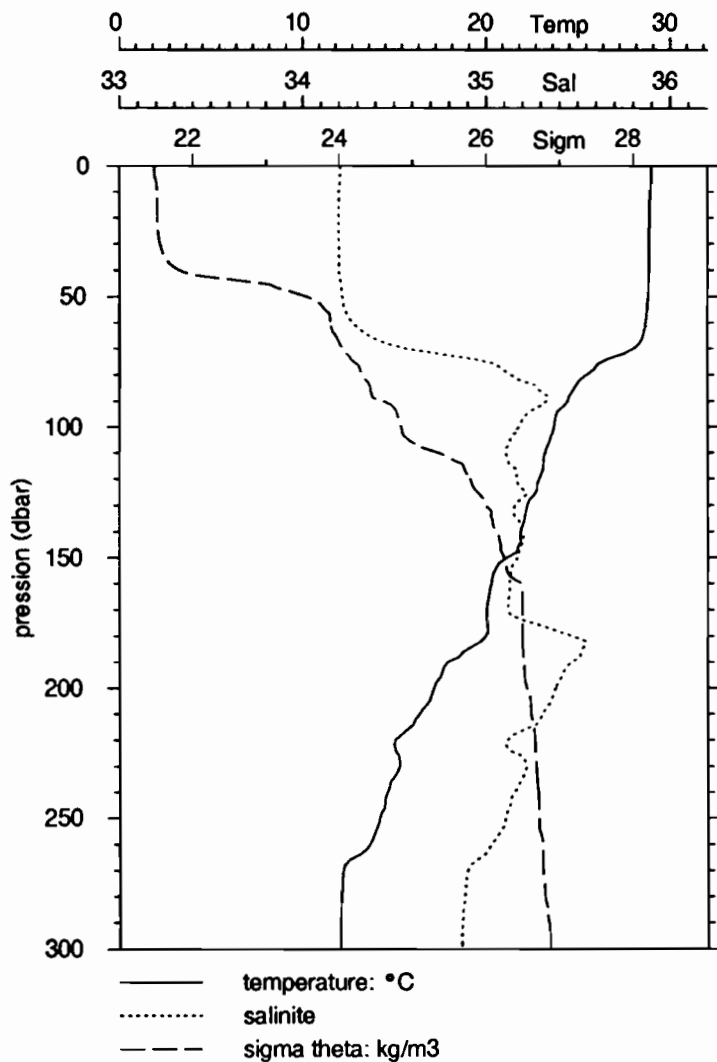
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	28.83	34.19	0.096	0.066	40.91
21	28.73	34.15	0.095	0.080	45.77
40	28.73	34.15	0.133	0.067	33.71
49	28.73	34.15	0.134	0.073	35.15
70	28.72	34.21	0.138	0.089	39.06
74	28.70	34.23	0.120	0.093	43.69
78	28.68	34.25	0.146	0.095	39.40
84	28.61	34.26	0.112	0.106	48.62
90	28.46	34.28	0.181	0.143	44.12
95	28.14	34.29	0.166	0.174	51.24
100	27.24	34.34			
105	25.69	35.05	0.101	0.168	62.46
110	25.22	35.14	0.119	0.190	61.44

# EQUALIS -station 12

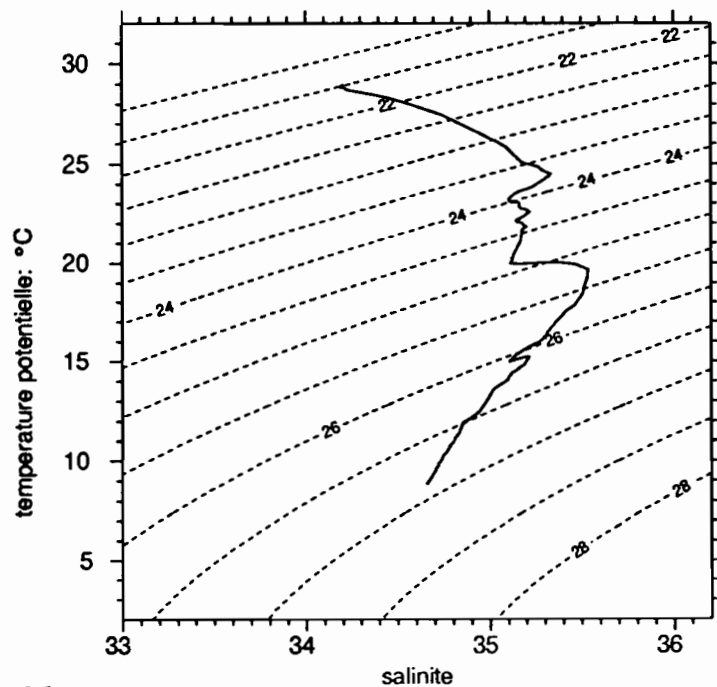
1°30 S 156°15 E

13/11/92, 4h 9 TU

13/11/92, 14h 9 locale



	P	T	S
debut	6.0	28.981	34.204
fin	500.0	8.882	34.660



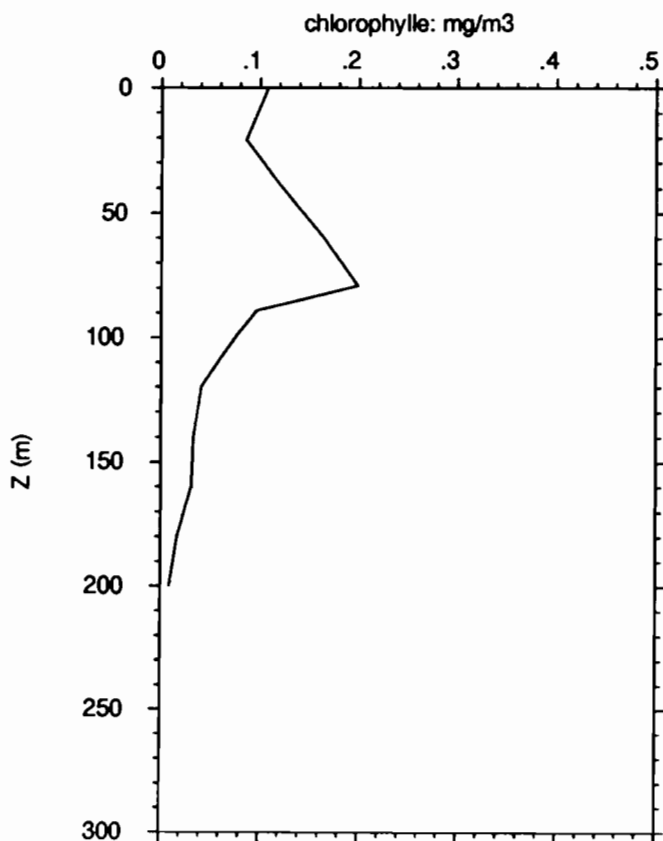
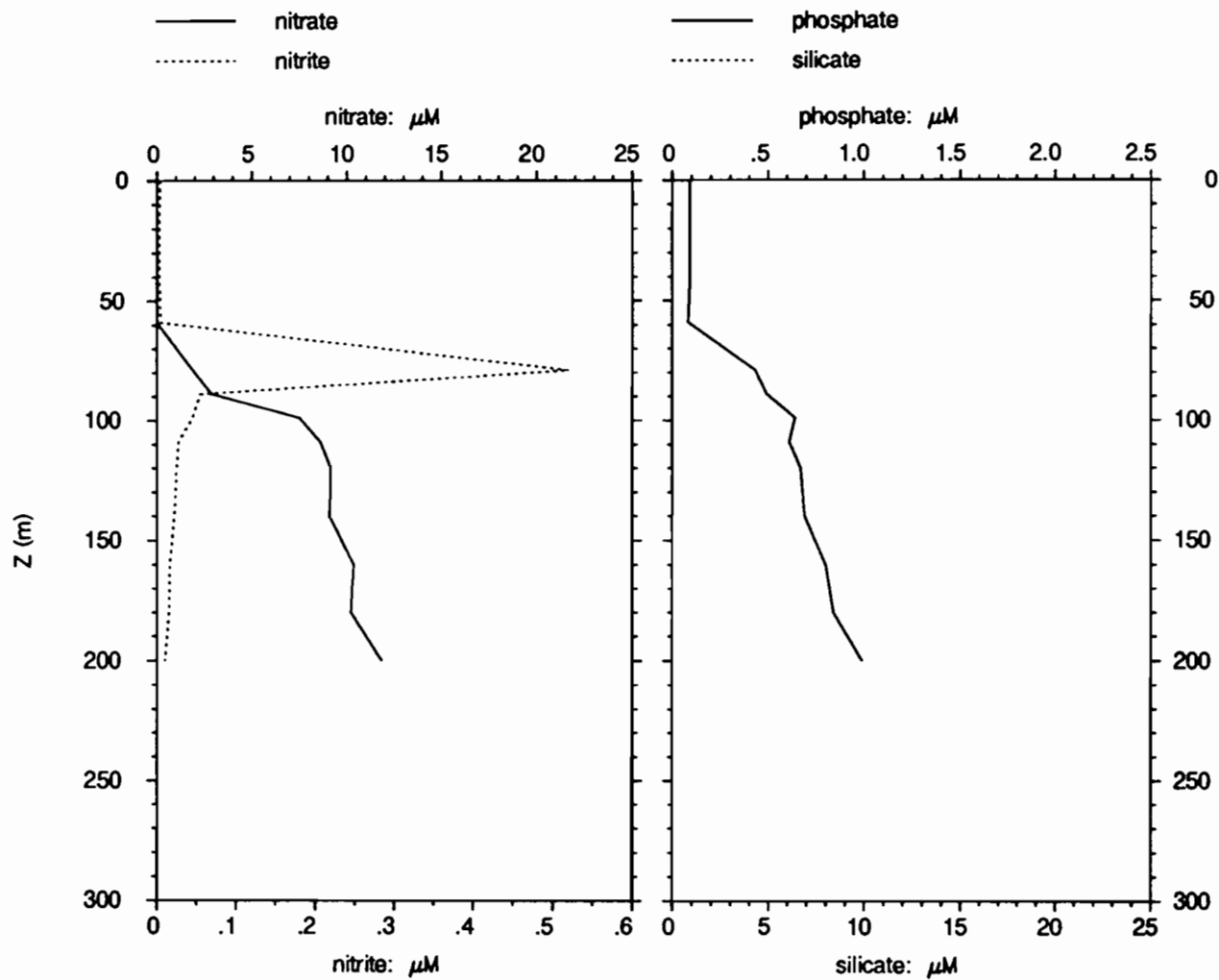
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.905	34.198		
20.0	28.859	34.196		
30.0	28.852	34.197		
40.0	28.838	34.198		
50.0	28.790	34.217		
75.0	26.336	34.991		
100.0	23.683	35.175		
125.0	22.681	35.209		
150.0	21.101	35.169		
200.0	17.141	35.374		
250.0	14.172	35.100		
300.0	12.018	34.863		
400.0	10.412	34.759		
500.0	8.882	34.660		

# EQUALIS - station 12

1°30 S 156°15 E

13/11/92, 4h 9 TU

13/11/92, 14h 9 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.004	0.004	0.09	
21	0.003	0.003	0.09	
39	0.003	0.003	0.09	
59	0.002	0.005	0.08	
79	1.90	0.520	0.43	
89	2.89	0.055	0.49	
99	7.51	0.045	0.64	
109	8.61	0.027	0.61	
120	9.14	0.025	0.67	
140	9.09	0.022	0.69	
160	10.35	0.016	0.80	
180	10.20	0.015	0.84	
200	11.84	0.010	0.99	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.16	34.24	0.108	0.075	41.12
21	28.15	34.32	0.086	0.061	41.33
39	28.76	33.96	0.121	0.079	39.37
59	28.62	33.72	0.163	0.155	48.61
79	25.50	34.90	0.199	0.266	57.17
89	24.45	35.03	0.097	0.176	64.41
99	23.72	34.92	0.077	0.148	65.90
109	23.24	34.96	0.059	0.135	69.67
120	22.90	34.88	0.041	0.115	73.60
140	21.91	34.84	0.033	0.098	74.95
160	20.28	34.99	0.031	0.090	74.32
180	19.88	34.98	0.017	0.038	68.72
200	17.39	35.37	0.009	0.026	73.56

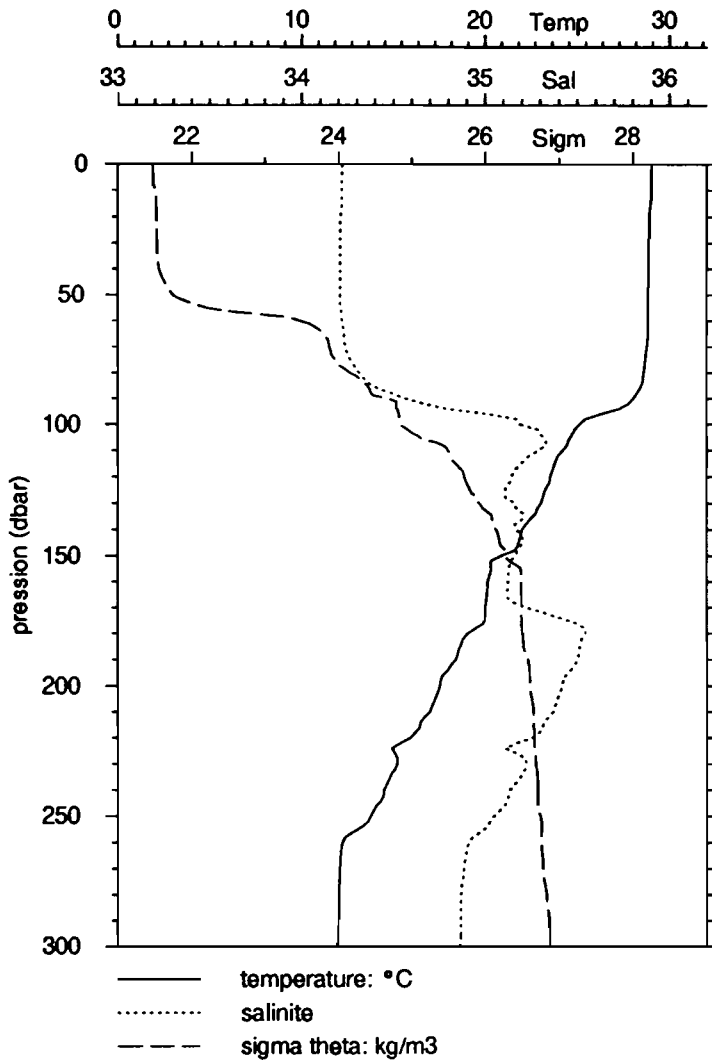


# EQUALIS -station 13

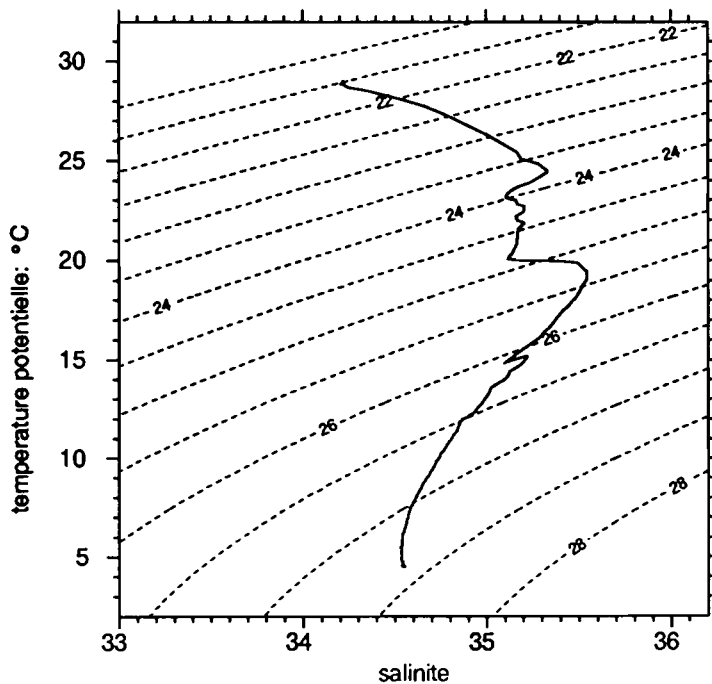
13/11/92, 7h 4 TU

1°30 S 156°15 E

13/11/92, 17h 4 locale



	P	T	S
debut	4.0	29.019	34.219
fin	1000.0	4.539	34.553



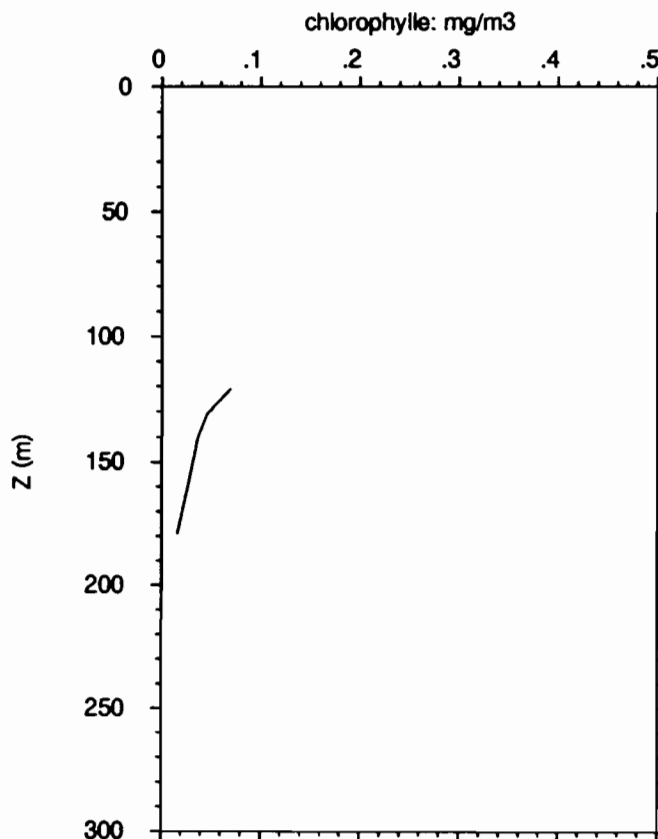
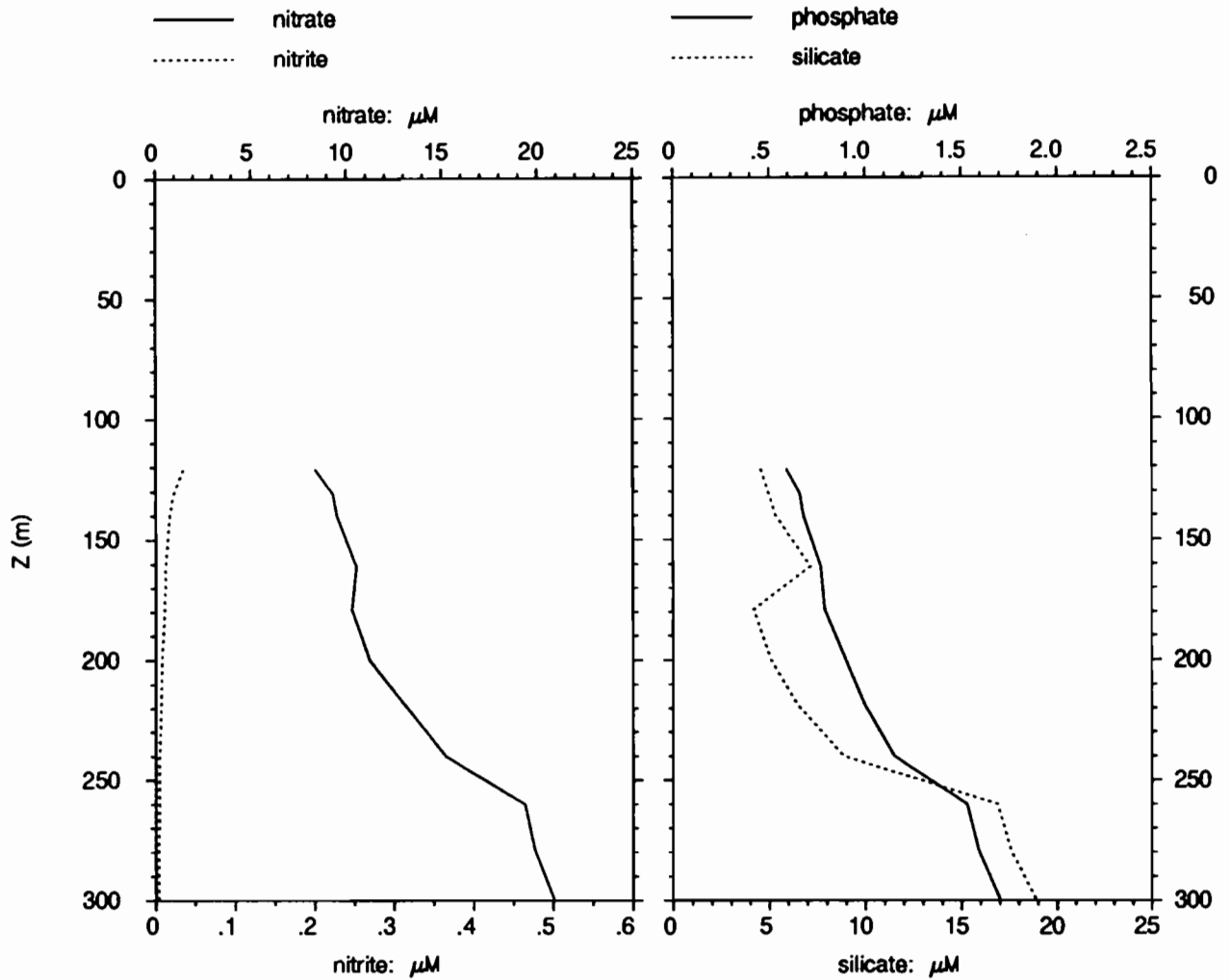
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.018	34.218		
20.0	28.894	34.210		
30.0	28.865	34.208		
40.0	28.857	34.208		
50.0	28.850	34.209		
75.0	28.676	34.264		
100.0	25.094	35.191		
125.0	23.261	35.111		
150.0	20.856	35.166		
200.0	17.521	35.416		
250.0	13.753	35.049		
300.0	11.895	34.860		
400.0	10.324	34.753		
500.0	8.793	34.657		
600.0	6.807	34.564		
700.0	6.234	34.542		
800.0	5.725	34.537		
900.0	4.861	34.538		
1000.0	4.539	34.553		

# EQUALIS - station 13

1°30 S 156°15 E

13/11/92, 7h 4 TU

13/11/92, 17h 4 locale



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
121	8.37	0.035	0.59	4.6
131	9.30	0.023	0.66	5.0
140	9.50	0.018	0.68	5.3
161	10.53	0.013	0.77	7.2
179	10.30	0.012	0.79	4.2
200	11.22	0.008	0.90	5.1
219	13.12	0.007	1.00	6.5
240	15.21	0.005	1.15	8.9
260	19.36	0.005	1.53	16.9
279	19.87	0.004	1.59	17.6
301	20.96	0.004	1.71	19.0
1001	28.46	0.000	2.77	64.5

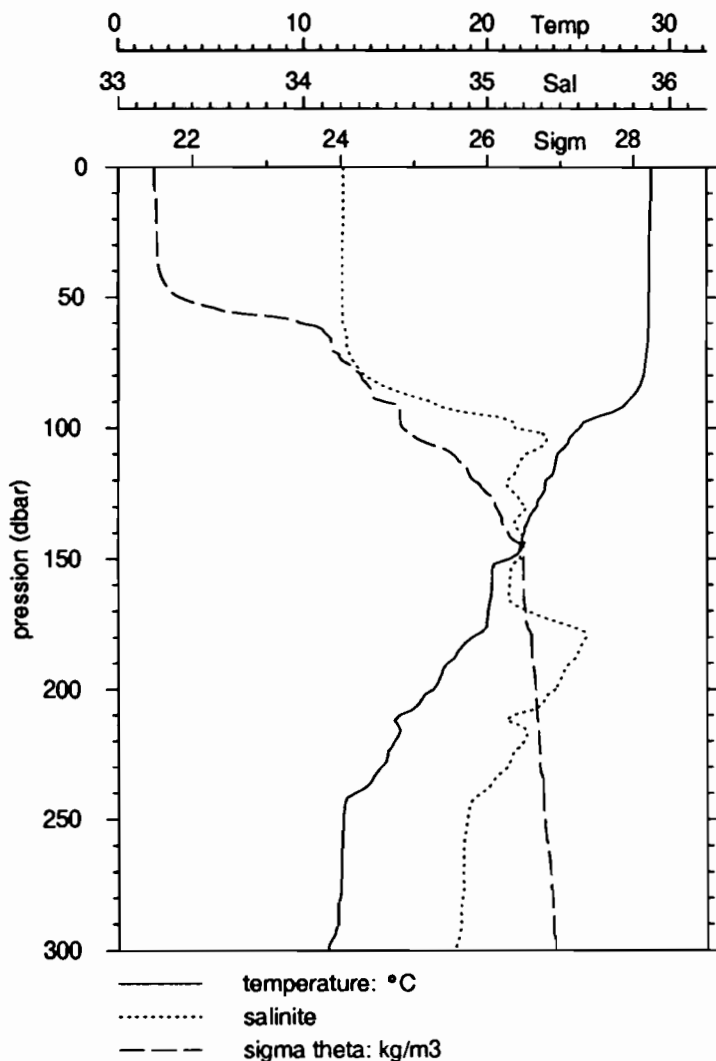
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
121	23.55	34.63	0.070	0.158	69.22
131	22.69	34.86	0.046	0.115	71.48
140	21.99	34.52	0.037	0.103	73.63
161	20.17	35.01	0.026	0.055	67.76
179	19.55	34.71	0.016	0.052	76.71
200	17.54	34.58			
219	16.05	34.03			
240	14.39	33.77			
260	12.11	34.82			
279	12.02	34.85			
301	11.80	34.84			
1001	4.53	34.55			

# EQUALIS -station 14

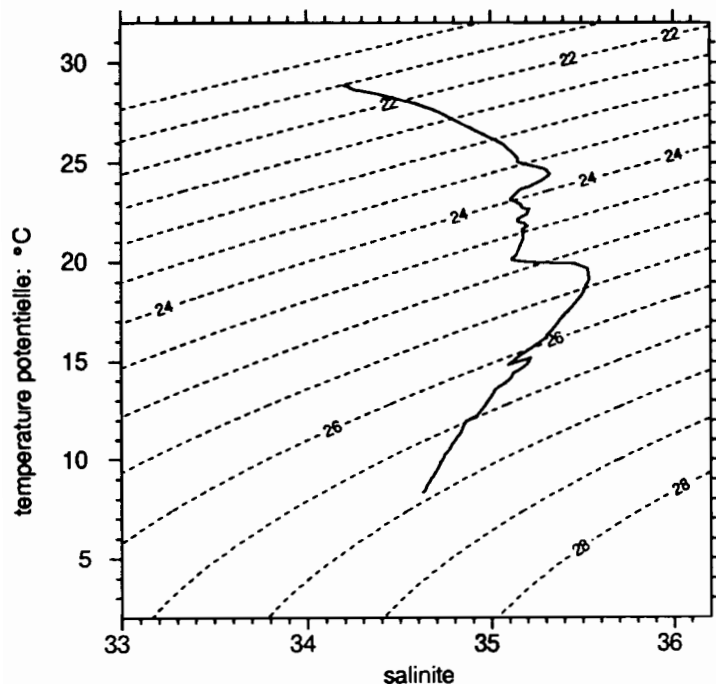
1°30 S 156°15 E

13/11/92, 8h24 TU

13/11/92, 18h24 locale



	P	T	S
debut	6.0	28.962	34.212
fin	502.0	8.358	34.626



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.968	34.212		
20.0	28.907	34.211		
30.0	28.872	34.206		
40.0	28.860	34.206		
50.0	28.853	34.207		
75.0	28.653	34.269		
100.0	25.042	35.149		
125.0	23.020	35.149		
150.0	21.202	35.177		
200.0	17.026	35.372		
250.0	12.080	34.887		
300.0	11.267	34.822		
400.0	9.919	34.724		
500.0	8.376	34.627		

# EQUALIS - station 14

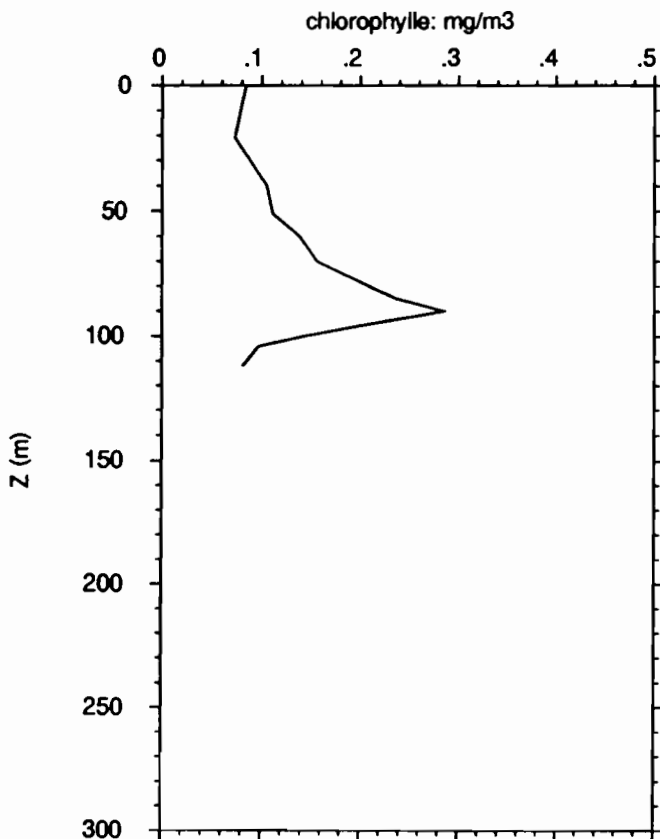
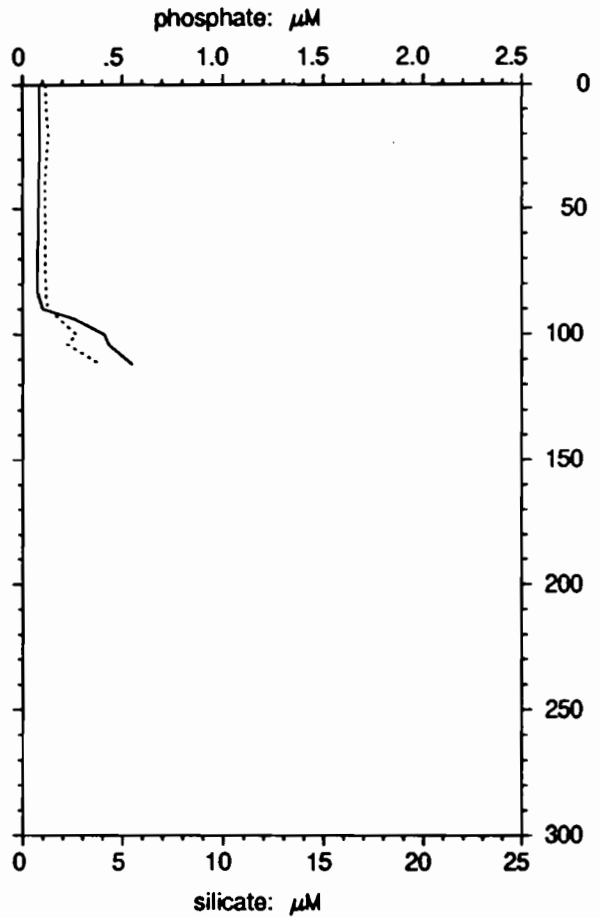
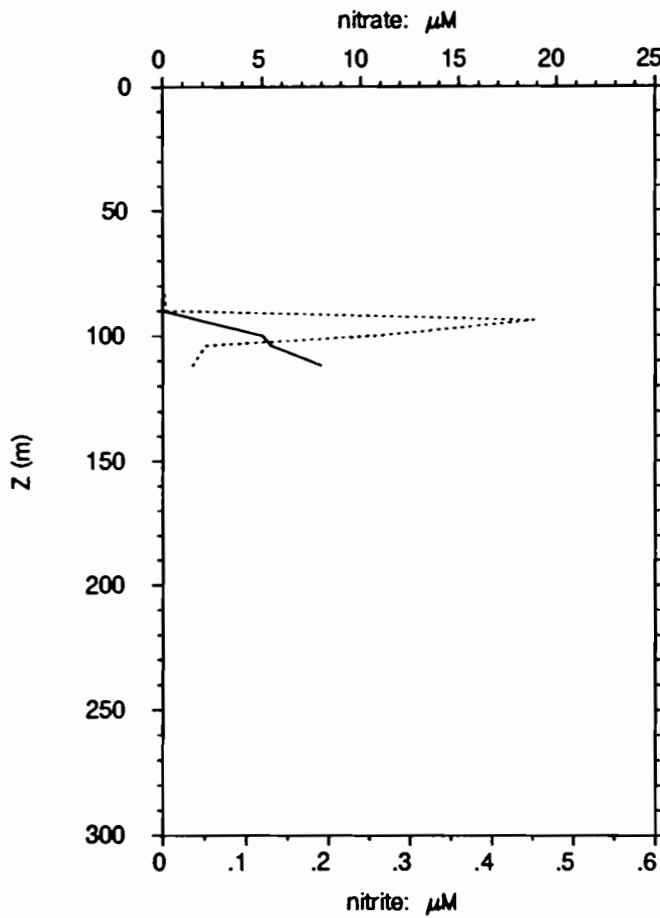
1° 30 S 156° 15 E

13/11/92, 8h24 TU

13/11/92, 18h24 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.000	0.08	1.1
21	0.000	0.000	0.09	1.3
40	0.003	0.000	0.08	1.1
51	0.007	0.000	0.08	1.1
60	0.000	0.000	0.08	1.1
70	0.004	0.000	0.07	1.1
81	0.001	0.001	0.07	1.1
85	0.001	0.003	0.08	1.2
90	0.000	0.004	0.10	1.3
94	1.88	0.452	0.26	1.8
100	4.99	0.260	0.41	2.7
104	5.41	0.051	0.43	2.2
112	7.99	0.036	0.55	3.9

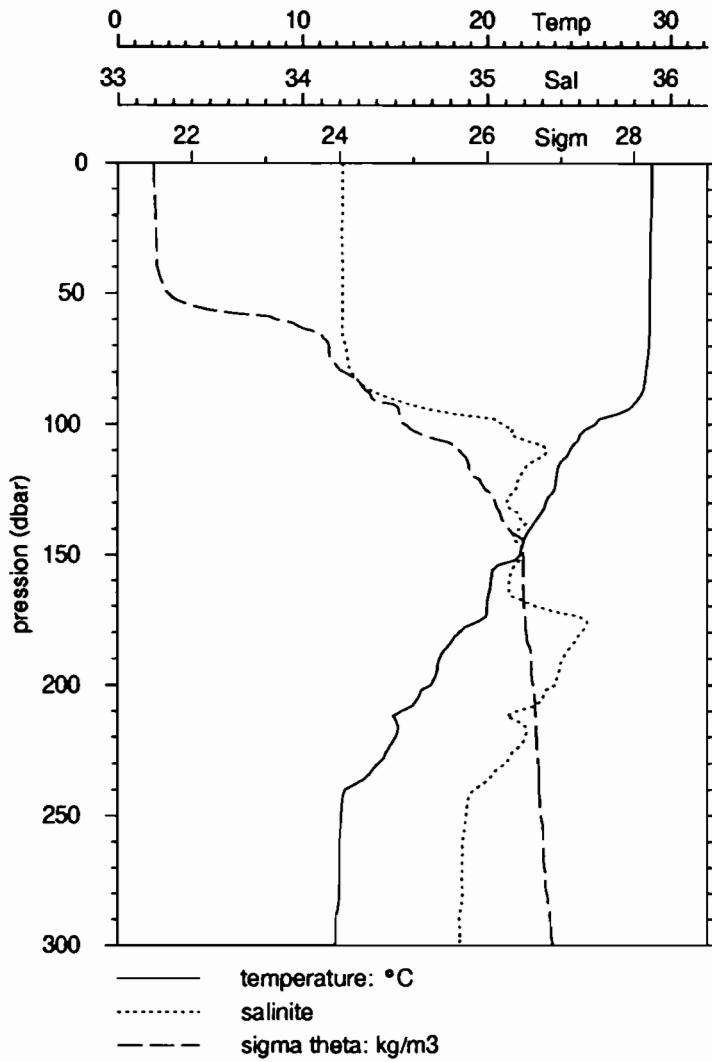
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.08	34.25	0.084	0.052	38.02
21	28.90	34.18	0.073	0.051	41.01
40	28.86	34.20	0.105	0.062	37.15
51	28.85	34.19	0.111	0.057	34.19
60	28.83	34.18	0.138	0.077	35.76
70	28.71	34.20	0.156	0.098	38.58
81	28.47	34.24	0.214	0.150	41.11
85	28.17	34.26	0.237	0.188	44.33
90	27.42	34.38	0.285	0.246	46.40
94	26.04	34.72	0.226	0.253	52.74
100	24.78	35.11	0.141	0.229	61.89
104	24.28	35.06	0.097	0.160	62.35
112	23.68	35.14	0.081	0.142	63.82

# EQUALIS -station 15

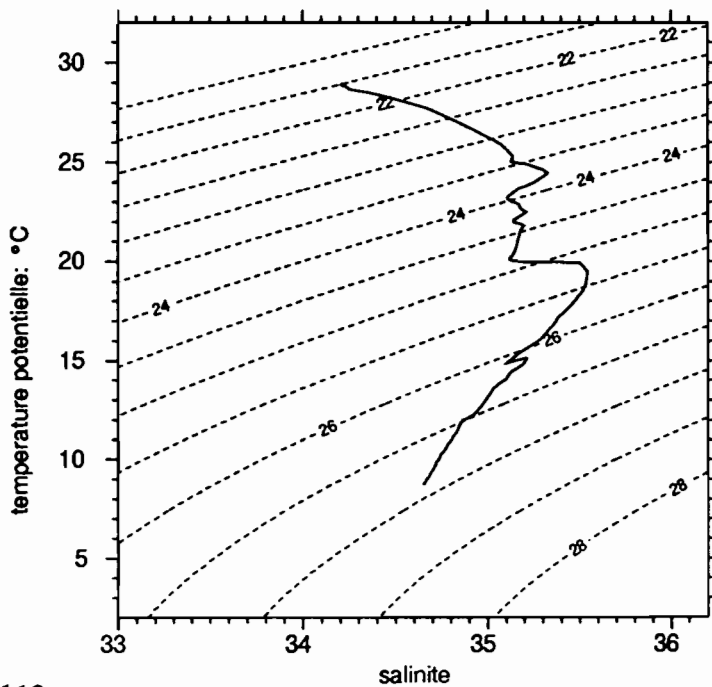
13/11/92, 10h 4 TU

1°30 S 156°15 E

13/11/92, 20h 4 locale



	P	T	S
debut	6.0	28.973	34.216
fin	504.0	8.774	34.652



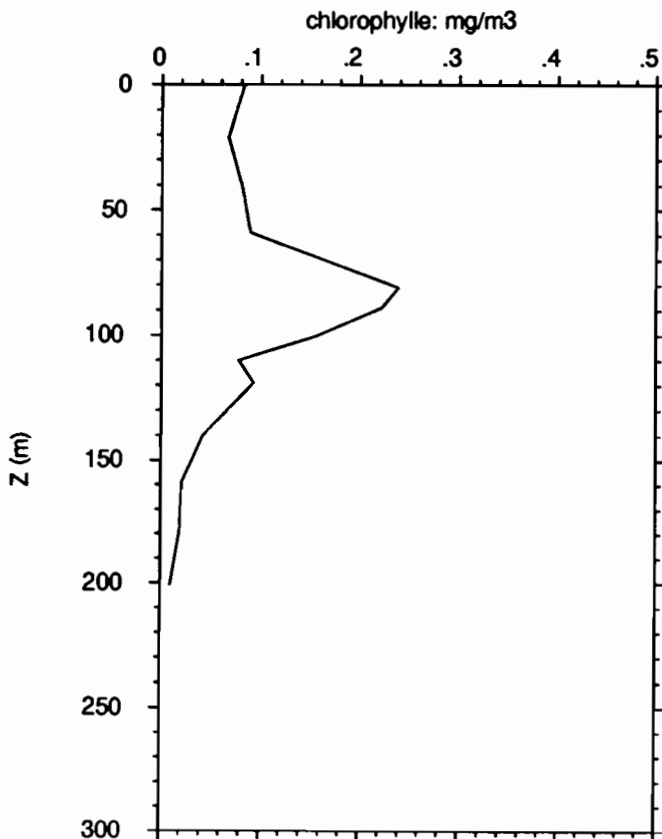
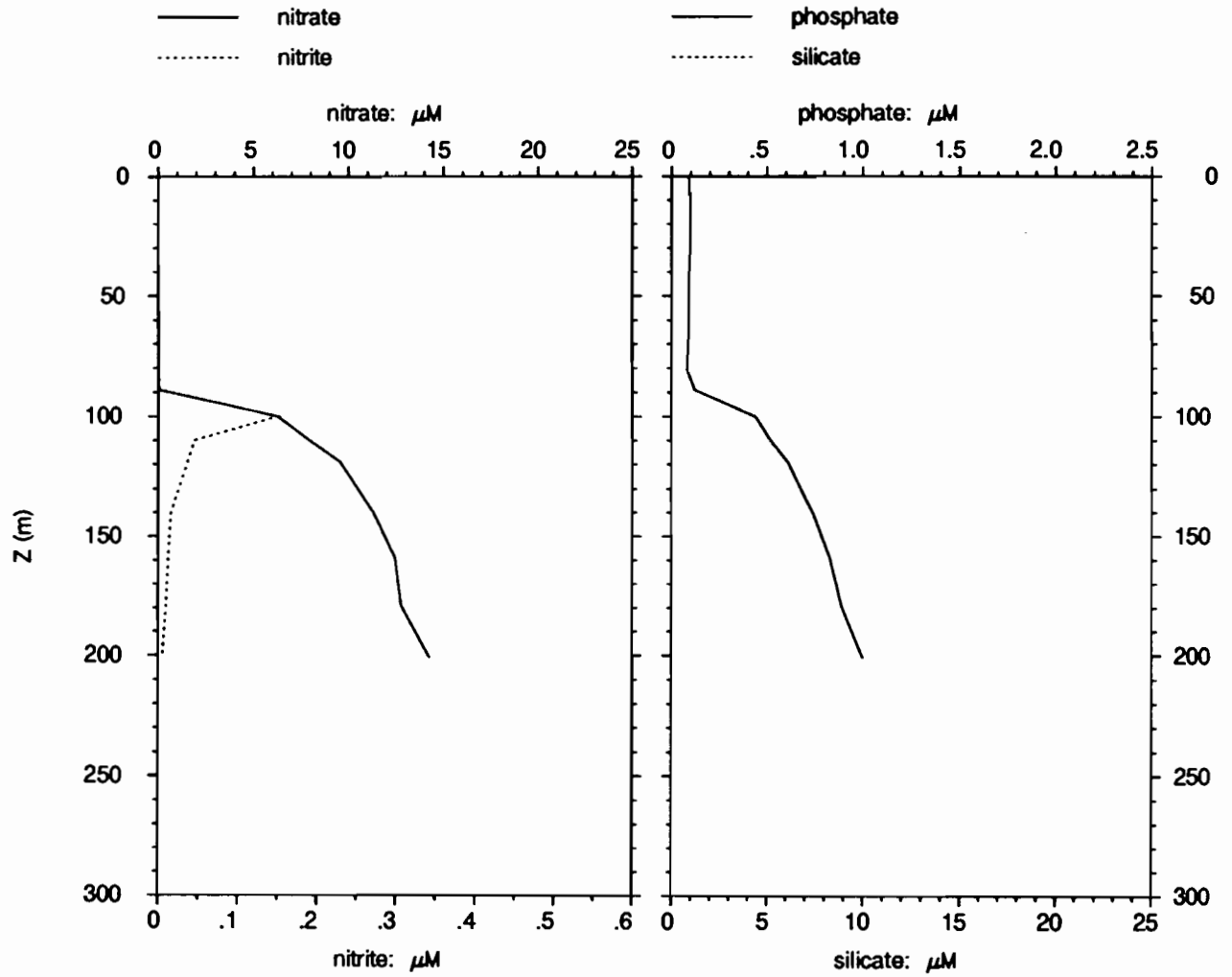
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.973	34.216		
20.0	28.962	34.215		
30.0	28.899	34.211		
40.0	28.893	34.216		
50.0	28.885	34.216		
75.0	28.752	34.243		
100.0	25.875	35.080		
125.0	23.630	35.152		
150.0	21.774	35.190		
200.0	16.969	35.369		
250.0	12.082	34.886		
300.0	11.745	34.849		
400.0	10.332	34.750		
500.0	8.823	34.655		

# EQUALIS - station 15

1°30 S 156°15 E

13/11/92, 10h 4 TU

13/11/92, 20h 4 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.000	0.09	
21	0.006	0.000	0.10	
41	0.003	0.000	0.09	
59	0.001	0.000	0.09	
81	0.004	0.000	0.08	
89	0.004	0.002	0.12	
100	6.25	0.151	0.44	
110	7.93	0.046	0.52	
119	9.56	0.037	0.61	
140	11.32	0.016	0.74	
159	12.46	0.013	0.83	
179	12.78	0.010	0.89	
201	14.28	0.005	1.00	

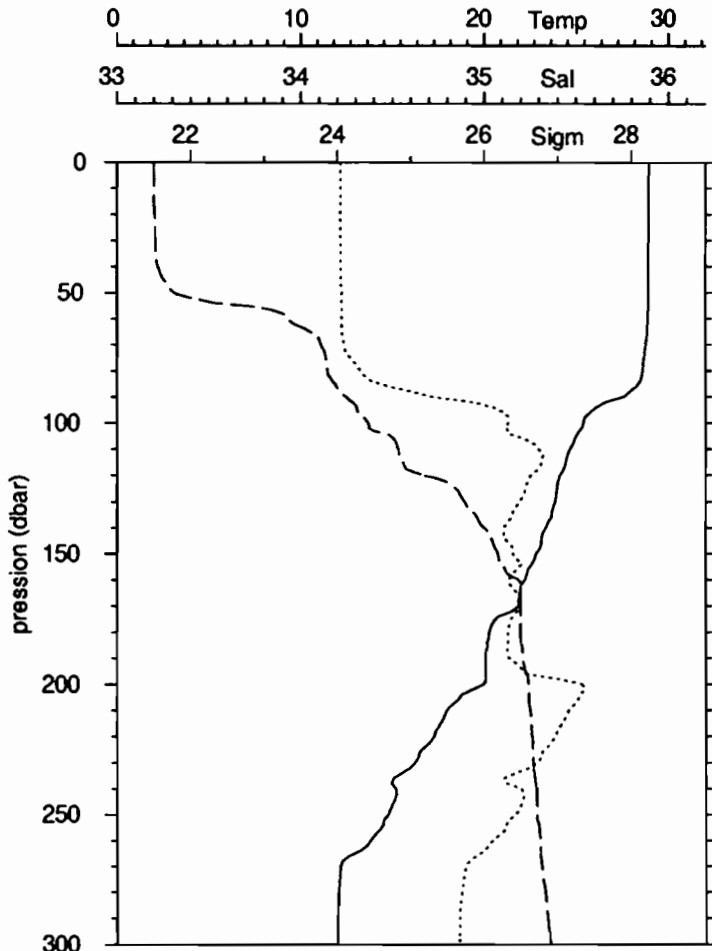
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.07	34.25	0.083	0.065	43.86
21	28.89	34.18	0.067	0.066	49.67
41	28.85	34.19	0.081	0.063	43.88
59	28.71	34.15	0.089	0.090	50.26
81	28.35	34.31	0.239	0.191	44.39
89	27.25	34.24	0.222	0.242	52.14
100	24.97	34.66	0.157	0.233	59.77
110	23.92	35.09	0.078	0.148	65.61
119	23.68	34.89	0.093	0.159	63.00
140	22.15	34.78	0.042	0.092	68.66
159	20.23	35.00	0.021	0.051	70.59
179	19.69	34.29	0.019	0.050	72.38
201	17.29	35.36	0.010	0.031	76.36

# EQUALIS -station 17

13/11/92, 13h 0 TU

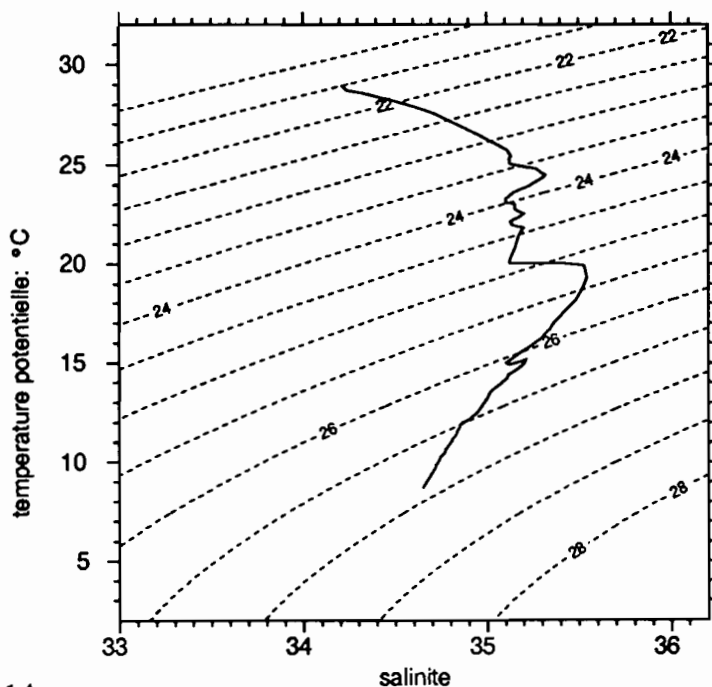
1°30 S 156°15 E

13/11/92, 23h 0 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m<sup>3</sup>

	P	T	S
debut	6.0	28.940	34.217
fin	504.0	8.754	34.648



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.933	34.217		
20.0	28.947	34.217		
30.0	28.920	34.217		
40.0	28.896	34.217		
50.0	28.899	34.222		
75.0	28.672	34.269		
100.0	25.389	35.128		
125.0	23.947	35.223		
150.0	22.806	35.153		
200.0	19.955	35.530		
250.0	14.754	35.172		
300.0	12.002	34.862		
400.0	10.415	34.761		
500.0	8.756	34.649		

# EQUALIS - station 17

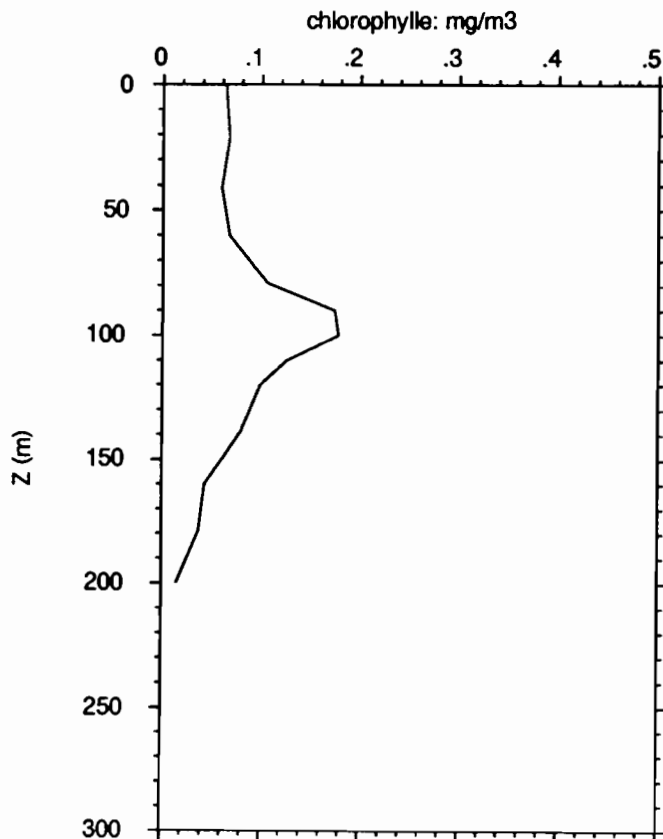
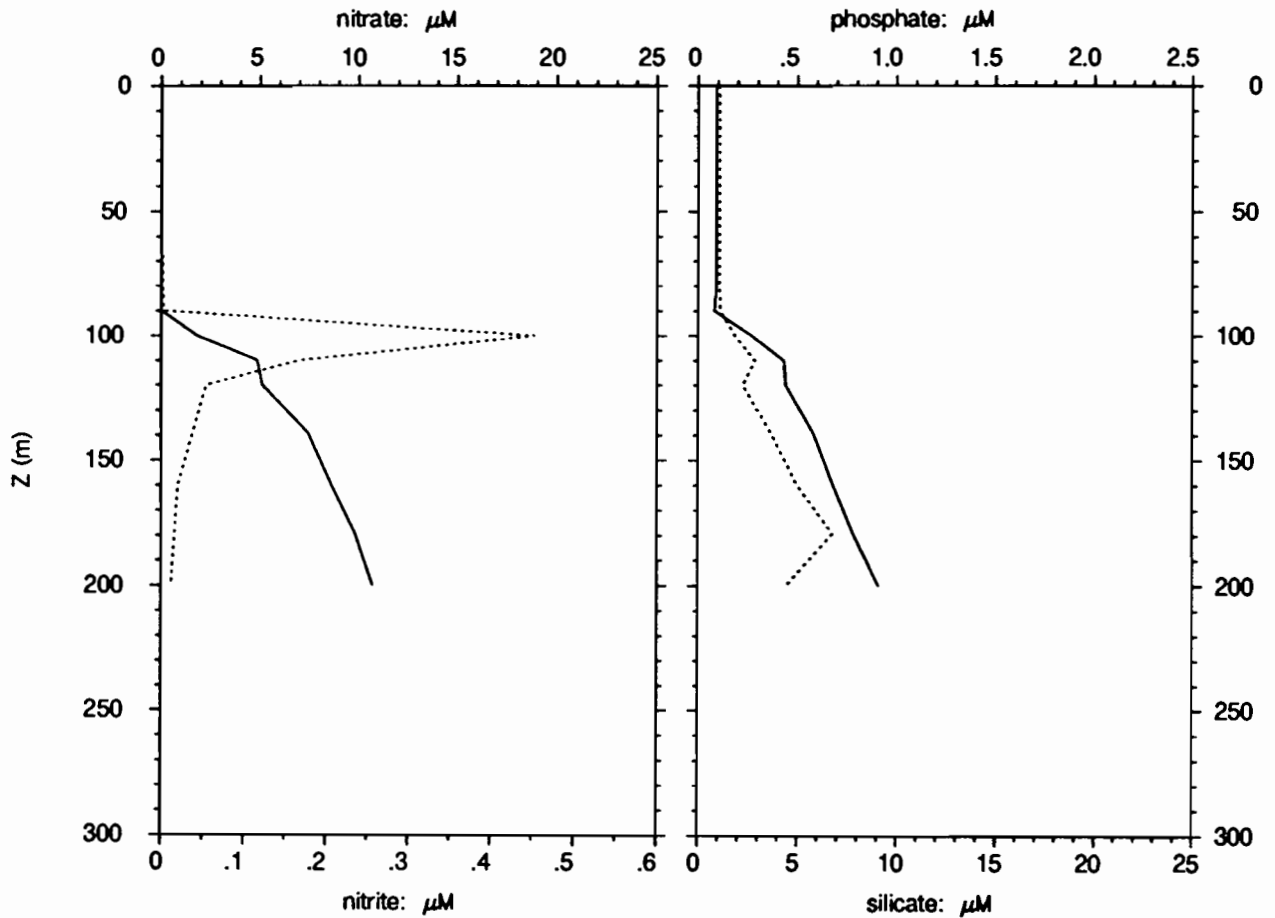
1° 30 S 156° 15 E

13/11/92, 13h 0 TU

13/11/92, 23h 0 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.000	0.09	1.1
21	0.005	0.000	0.09	1.1
41	0.006	0.000	0.09	1.1
60	0.004	0.001	0.09	1.1
79	0.004	0.002	0.09	1.1
90	0.003	0.003	0.08	1.1
100	1.79	0.453	0.27	1.8
110	4.85	0.169	0.43	2.9
120	5.11	0.054	0.44	2.2
139	7.43	0.038	0.58	3.7
160	8.62	0.020	0.68	5.0
179	9.81	0.016	0.78	6.8
200	10.71	0.012	0.91	4.4

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.07	34.25	0.063	0.056	47.00
21	28.95	34.22	0.067	0.057	46.13
41	28.90	34.21	0.059	0.072	55.24
60	28.90	34.19	0.067	0.073	52.23
79	28.72	34.08	0.106	0.093	46.90
90	28.45	33.81	0.174	0.156	47.25
100	25.96	34.63	0.178	0.225	55.75
110	24.92	35.04	0.126	0.216	63.15
120	24.40	35.01	0.099	0.152	60.70
139	23.57	34.65	0.079	0.141	64.27
160	22.32	34.50	0.043	0.081	64.52
179	20.25	34.83	0.037	0.076	67.49
200	18.85	35.49	0.015	0.039	71.56

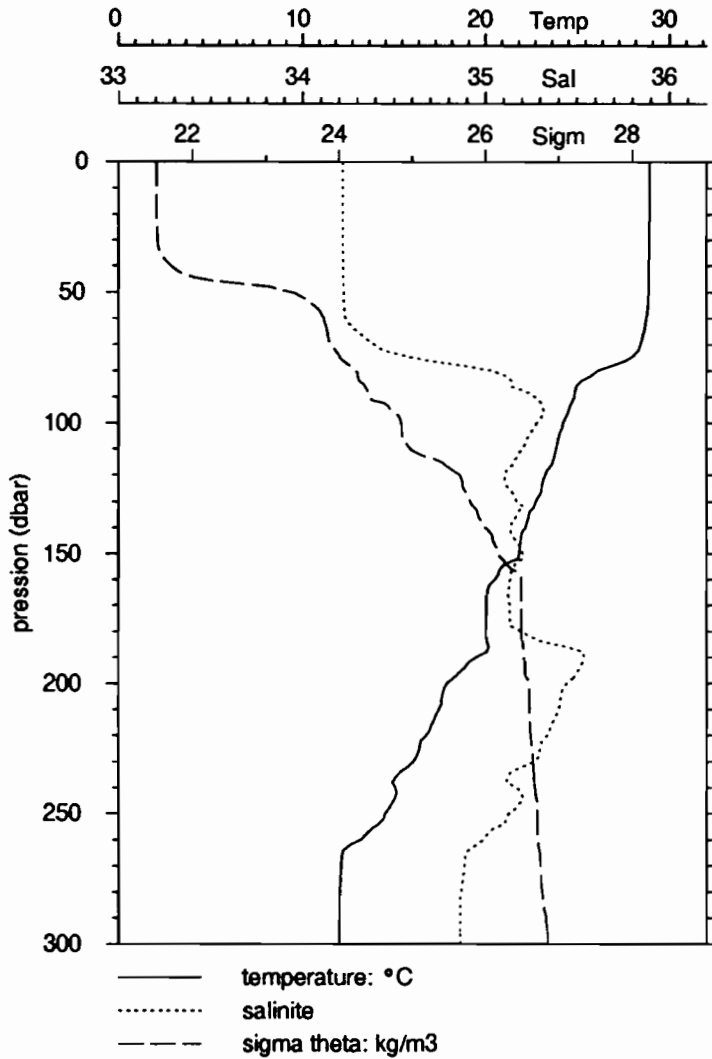


# EQUALIS -station 18

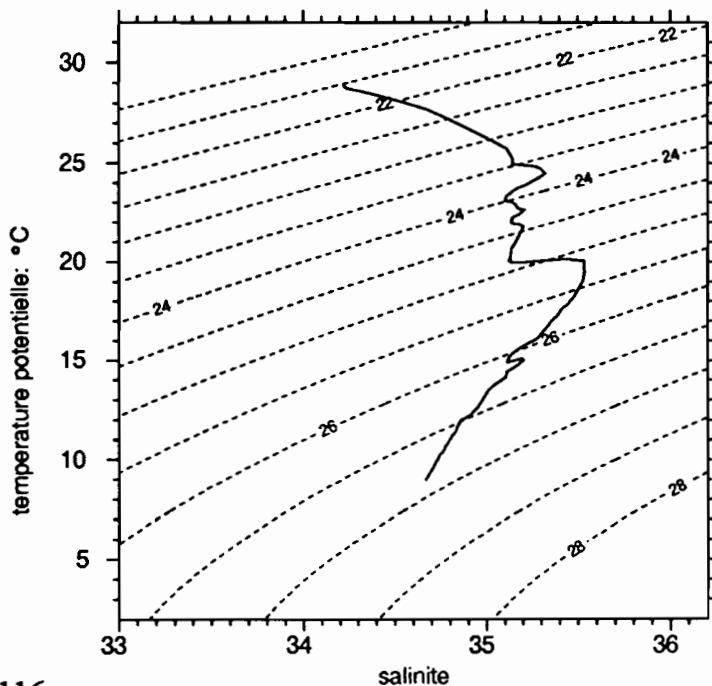
1°30 S 156°15 E

13/11/92, 16h 6 TU

14/11/92, 2h 6 locale



	P	T	S
debut	4.0	28.919	34.220
fin	500.0	9.018	34.668



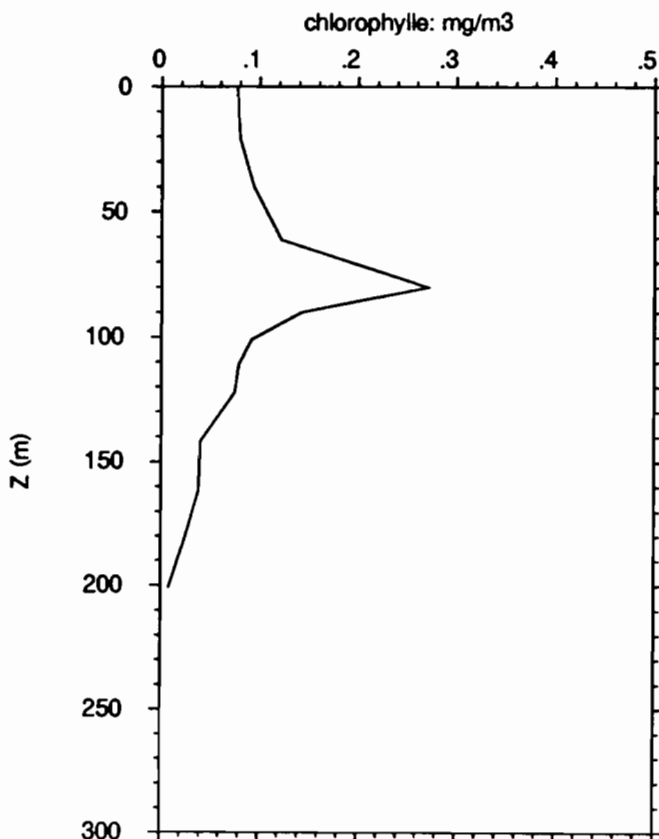
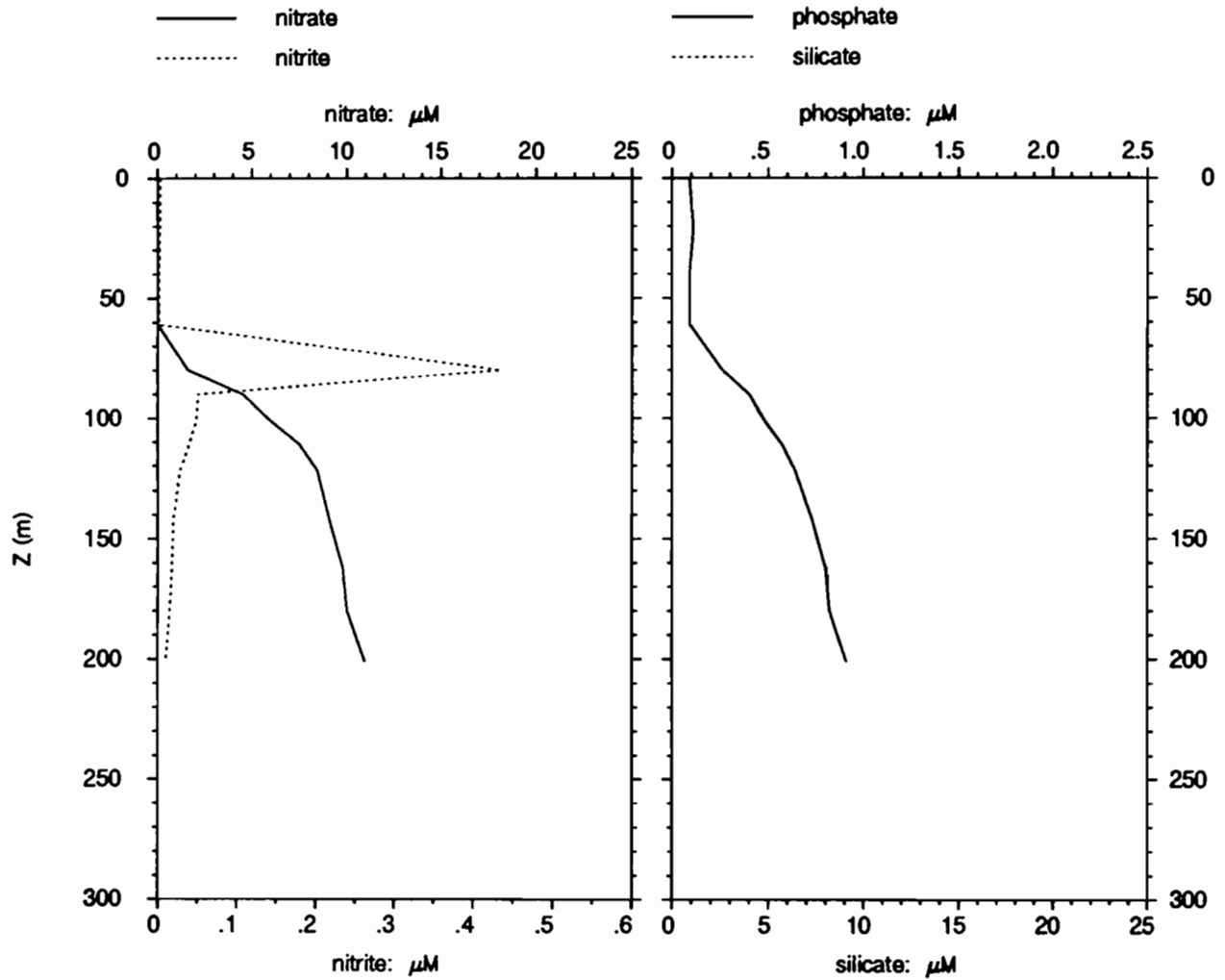
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.923	34.220		
20.0	28.925	34.220		
30.0	28.926	34.220		
40.0	28.910	34.222		
50.0	28.884	34.224		
75.0	27.895	34.603		
100.0	24.236	35.279		
125.0	23.074	35.126		
150.0	21.844	35.203		
200.0	17.880	35.444		
250.0	14.517	35.128		
300.0	12.010	34.862		
400.0	10.634	34.773		
500.0	9.018	34.668		

# EQUALIS - station 18

1°30 S 156°15 E

13/11/92, 16h 6 TU

14/11/92, 2h 6 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.003	0.09	
21	0.006	0.003	0.11	
40	0.003	0.002	0.09	
61	0.006	0.002	0.09	
80	1.60	0.435	0.26	
90	4.49	0.051	0.40	
101	5.96	0.049	0.48	
111	7.48	0.040	0.57	
122	8.44	0.028	0.64	
142	9.06	0.020	0.73	
162	9.78	0.018	0.80	
180	10.00	0.015	0.82	
201	10.94	0.010	0.91	

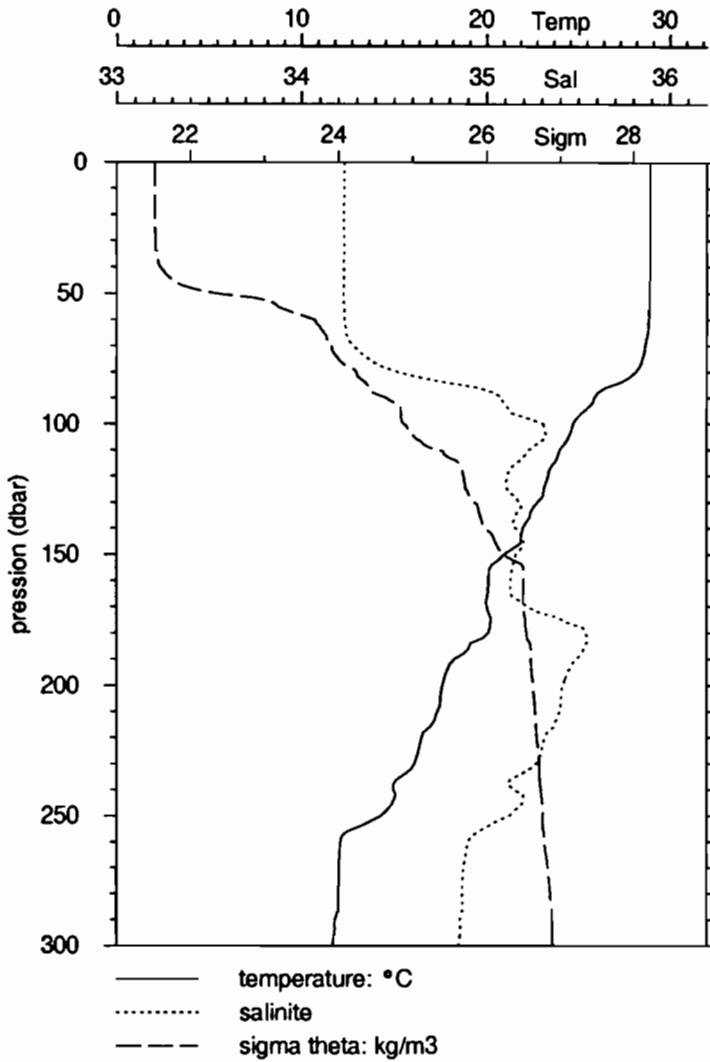
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.08	34.25	0.077	0.044	36.54
21	28.93	34.22	0.080	0.047	36.82
40	28.92	34.18	0.094	0.056	37.39
61	28.79	33.87	0.122	0.074	37.66
80	25.99	34.73	0.271	0.292	51.92
90	24.81	34.98	0.143	0.196	57.78
101	24.13	35.08	0.092	0.152	62.35
111	23.75	34.99	0.079	0.139	63.73
122	23.23	35.08	0.075	0.114	60.41
142	22.30	35.02	0.040	0.068	62.69
162	20.60	35.11	0.038	0.070	64.94
180	19.98	35.15	0.025	0.037	59.61
201	17.72	35.40	0.008	0.017	68.26

# EQUALIS -station 19

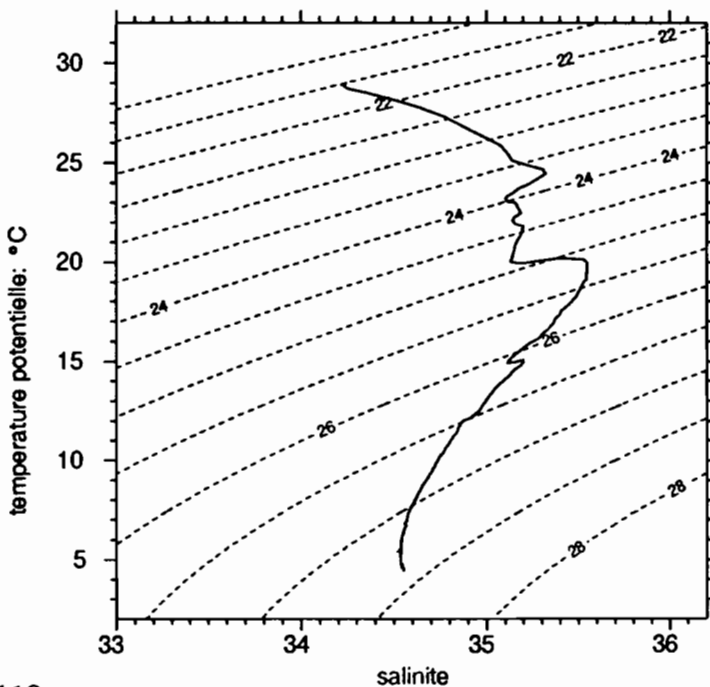
13/11/92, 19h 9 TU

1°30 S 156°15 E

14/11/92, 5h 9 locale



	P	T	S
debut	4.0	28.917	34.231
fin	1000.0	4.528	34.554



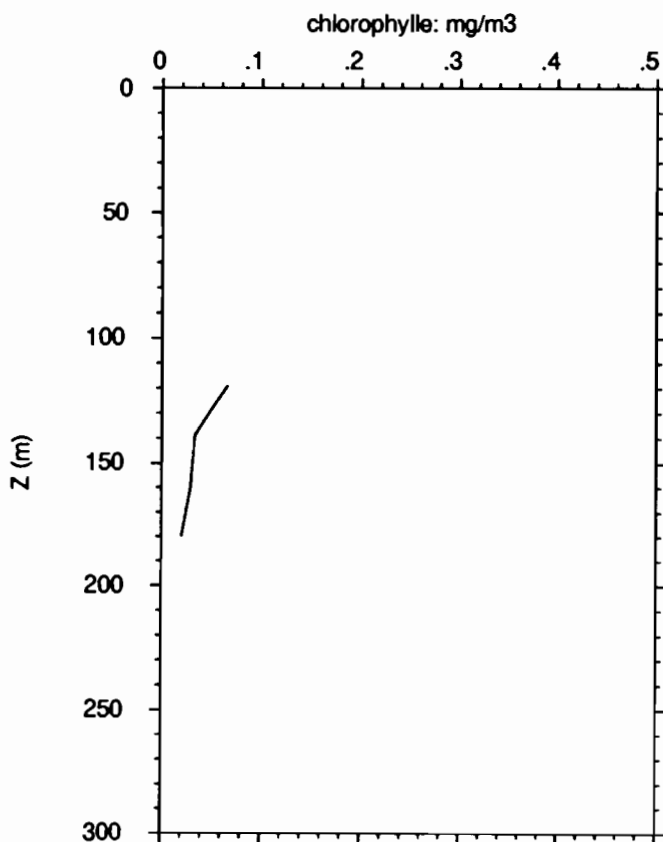
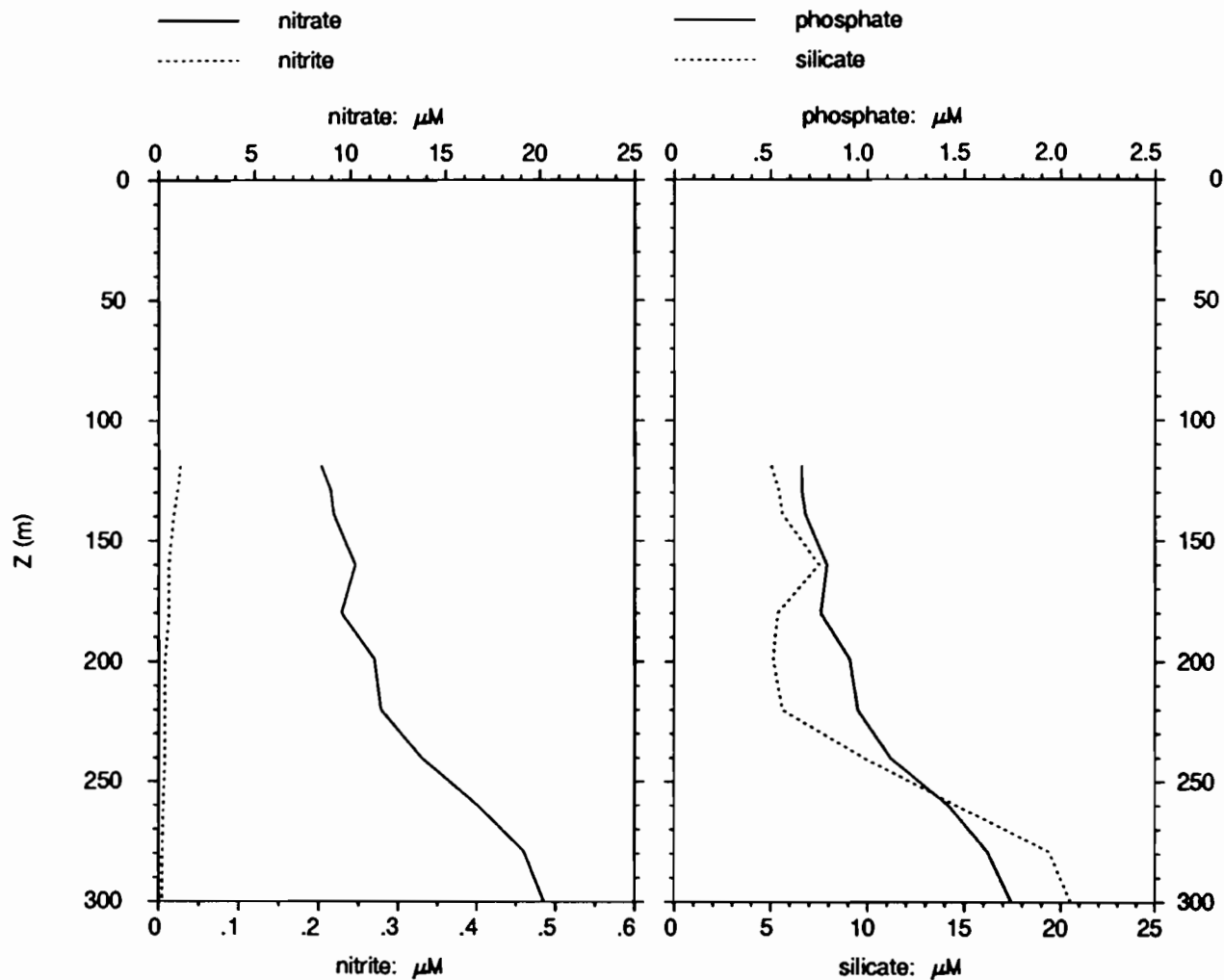
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.921	34.230		
20.0	28.922	34.230		
30.0	28.925	34.231		
40.0	28.919	34.229		
50.0	28.904	34.228		
75.0	28.501	34.364		
100.0	24.688	35.311		
125.0	23.107	35.112		
150.0	20.930	35.157		
200.0	17.619	35.414		
250.0	14.307	35.122		
300.0	11.691	34.850		
400.0	10.131	34.741		
500.0	8.604	34.646		
600.0	6.776	34.561		
700.0	6.086	34.540		
800.0	5.653	34.536		
900.0	4.809	34.540		
1000.0	4.528	34.554		

# EQUALIS - station 19

1°30 S 156°15 E

13/11/92, 19h 9 TU

14/11/92, 5h 9 locale



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
119	8.48	0.027	0.66	5.0
129	8.97	0.024	0.66	5.4
139	9.12	0.019	0.68	5.6
160	10.24	0.013	0.79	7.5
180	9.52	0.013	0.76	5.4
199	11.25	0.008	0.91	5.1
220	11.59	0.008	0.95	5.6
240	13.73	0.008	1.12	9.8
260	16.70	0.006	1.42	14.6
279	19.17	0.005	1.62	19.4
301	20.28	0.005	1.75	20.6
1001	27.54	0.002	2.88	72.0

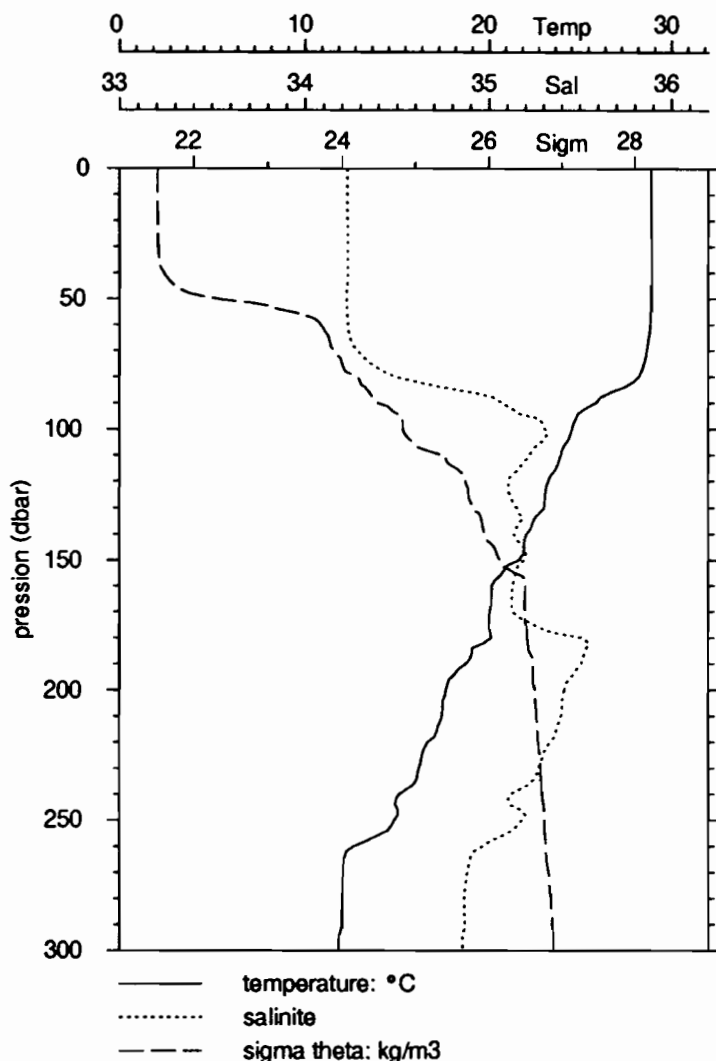
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
119	23.33	34.97	0.066	0.129	66.06
129	23.08	34.75	0.049	0.110	69.18
139	22.32	34.96	0.033	0.112	77.07
160	20.21	35.07	0.029	0.057	65.96
180	20.13	34.76	0.020	0.046	70.15
199	17.82	35.13			
220	17.13	34.73			
240	15.24	33.91			
260	12.93	34.33			
279	12.02	34.77			
301	11.82	34.85			
1001	4.53	34.55			

# EQUALIS -station 20

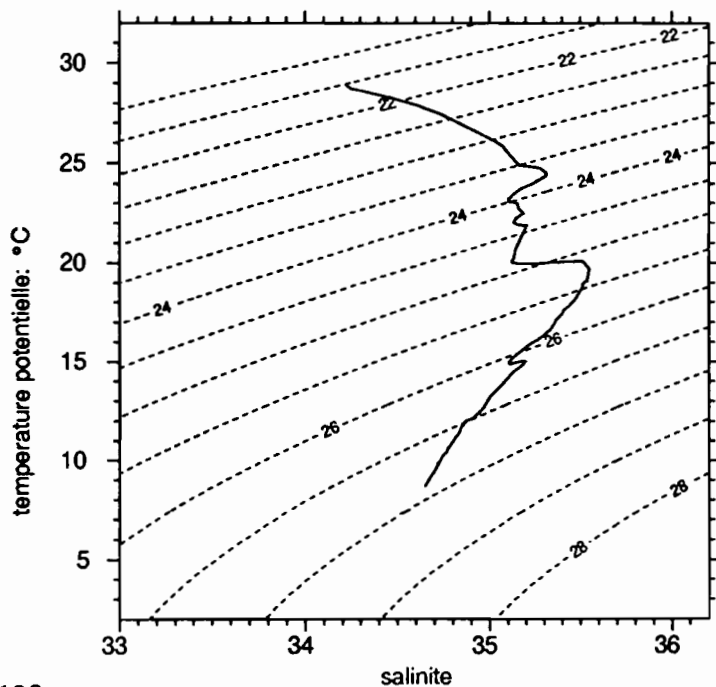
13/11/92, 20h35 TU

1°30 S 156°15 E

14/11/92, 6h35 locale



	P	T	S
debut	6.0	28.911	34.229
fin	502.0	8.750	34.648



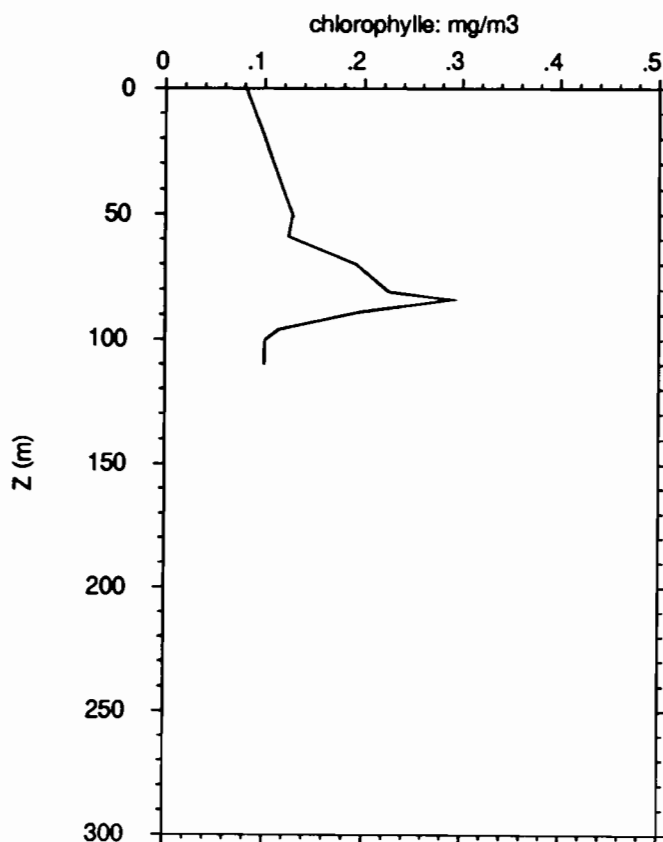
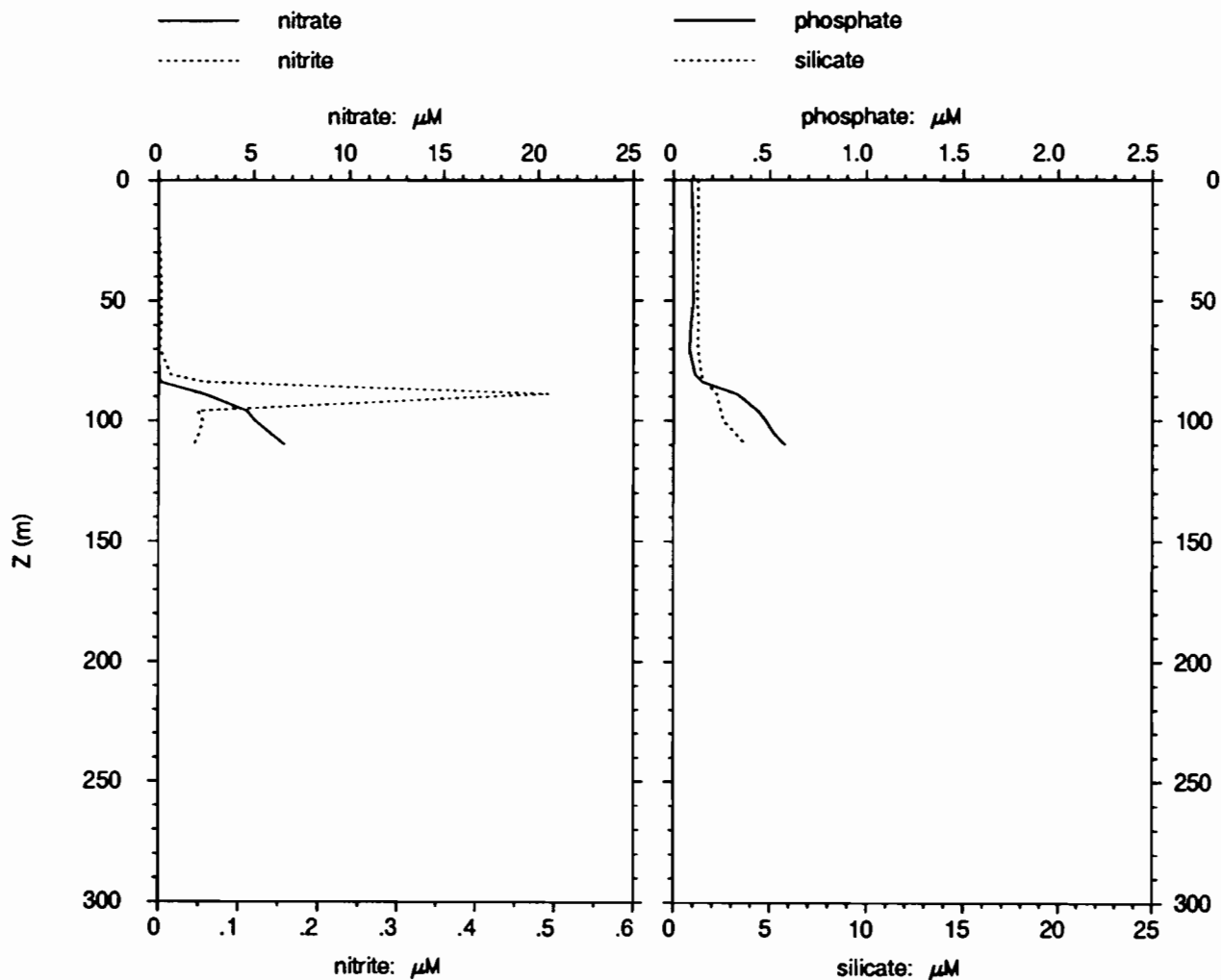
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.912	34.229		
20.0	28.916	34.230		
30.0	28.920	34.230		
40.0	28.921	34.230		
50.0	28.906	34.226		
75.0	28.507	34.359		
100.0	24.570	35.309		
125.0	23.091	35.112		
150.0	21.620	35.191		
200.0	17.660	35.414		
250.0	14.859	35.181		
300.0	11.811	34.855		
400.0	10.157	34.738		
500.0	8.753	34.649		

# EQUALIS - station 20

1°30 S 156°15 E

13/11/92, 20h35 TU

14/11/92, 6h35 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.001	0.09	1.2
21	0.005	0.001	0.10	1.3
41	0.002	0.003	0.10	1.2
50	0.002	0.003	0.10	1.2
59	0.002	0.003	0.09	1.3
70	0.005	0.002	0.08	1.2
81	0.030	0.015	0.11	1.4
84	0.121	0.057	0.15	1.6
89	2.34	0.492	0.33	2.2
96	4.62	0.049	0.44	2.4
100	5.03	0.055	0.48	2.6
105	5.81	0.051	0.52	3.2
110	6.59	0.044	0.58	3.8

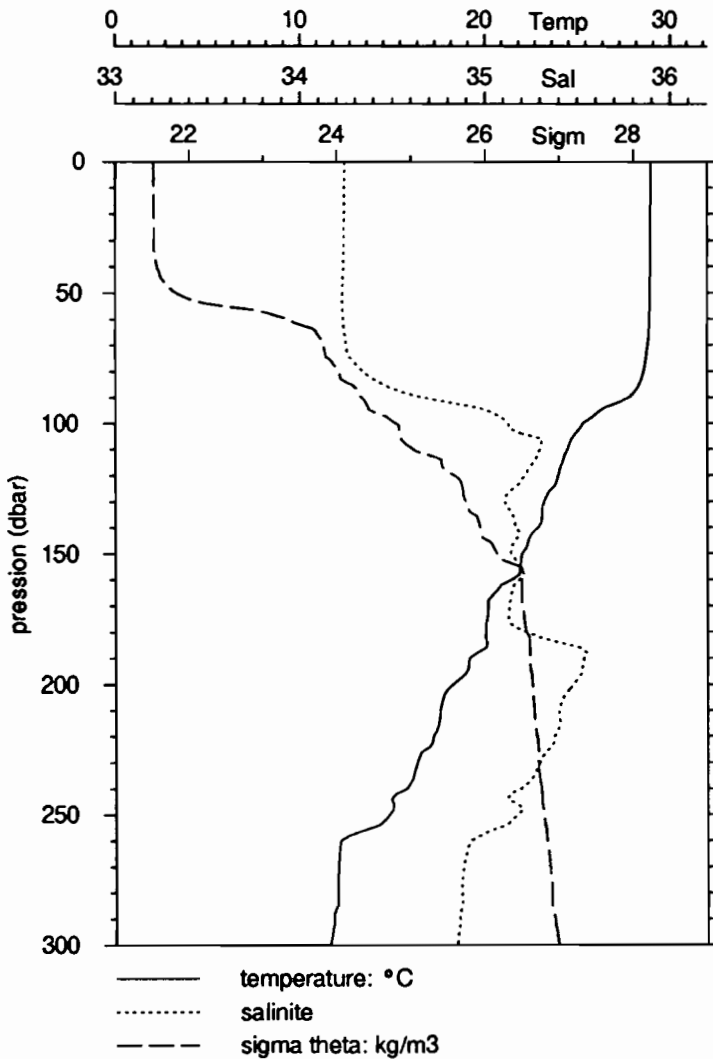
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.02	34.26	0.081	0.061	42.83
21	28.92	34.22	0.101	0.041	38.96
41	28.91	34.21			
50	28.89	34.18	0.128	0.068	34.54
59	28.81	34.13	0.124	0.079	38.96
70	28.53	34.02	0.192	0.130	40.29
81	27.42	34.66	0.225	0.228	50.32
84	26.89	34.21	0.290	0.246	45.93
89	25.85	34.45	0.195	0.264	57.49
96	24.67	35.16	0.114	0.167	59.50
100	24.39	34.99	0.101	0.141	58.28
105	24.13	35.01	0.100	0.161	61.62
110	23.89	35.18	0.100	0.141	58.57

# EQUALIS -station 21

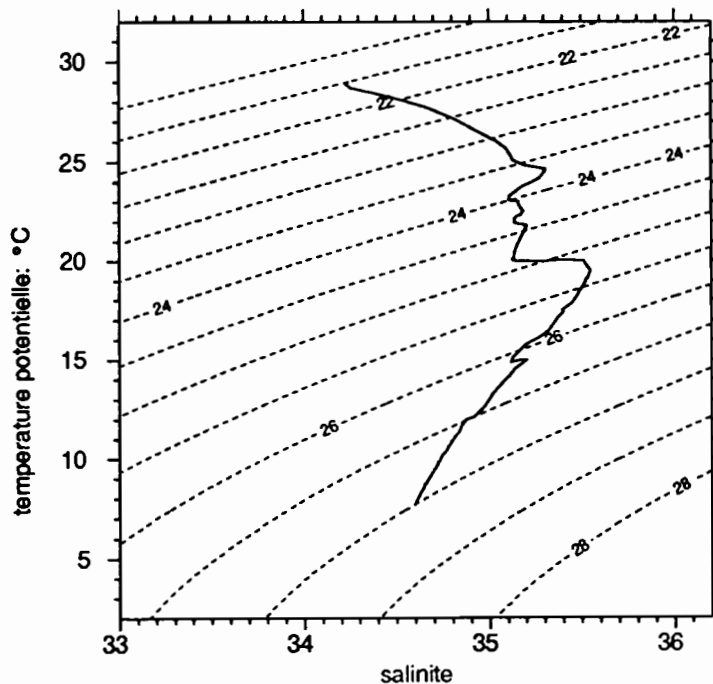
13/11/92, 22h 5 TU

1°30 S 156°15 E

14/11/92, 8h 5 locale



	P	T	S
debut	6.0	28.943	34.240
fin	502.0	7.866	34.601



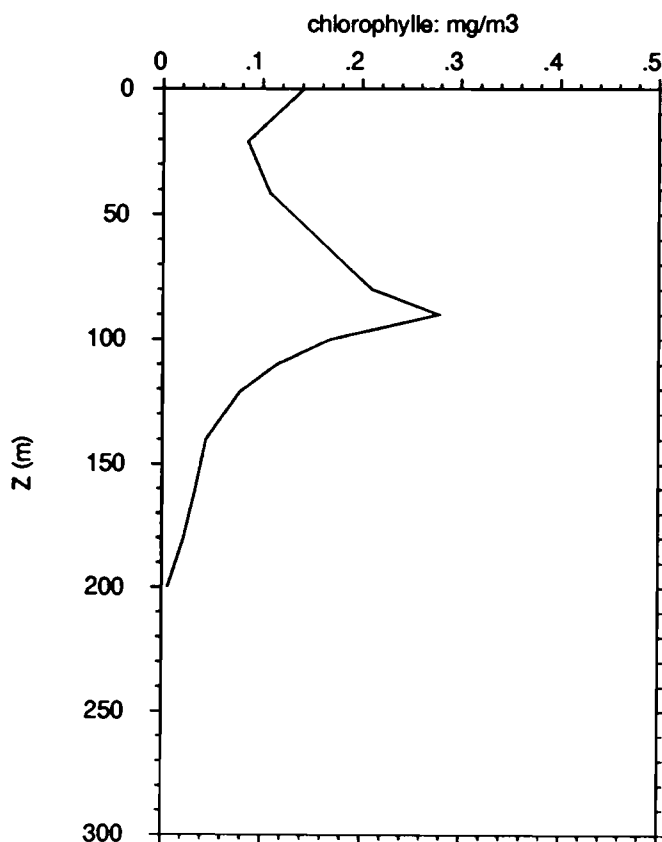
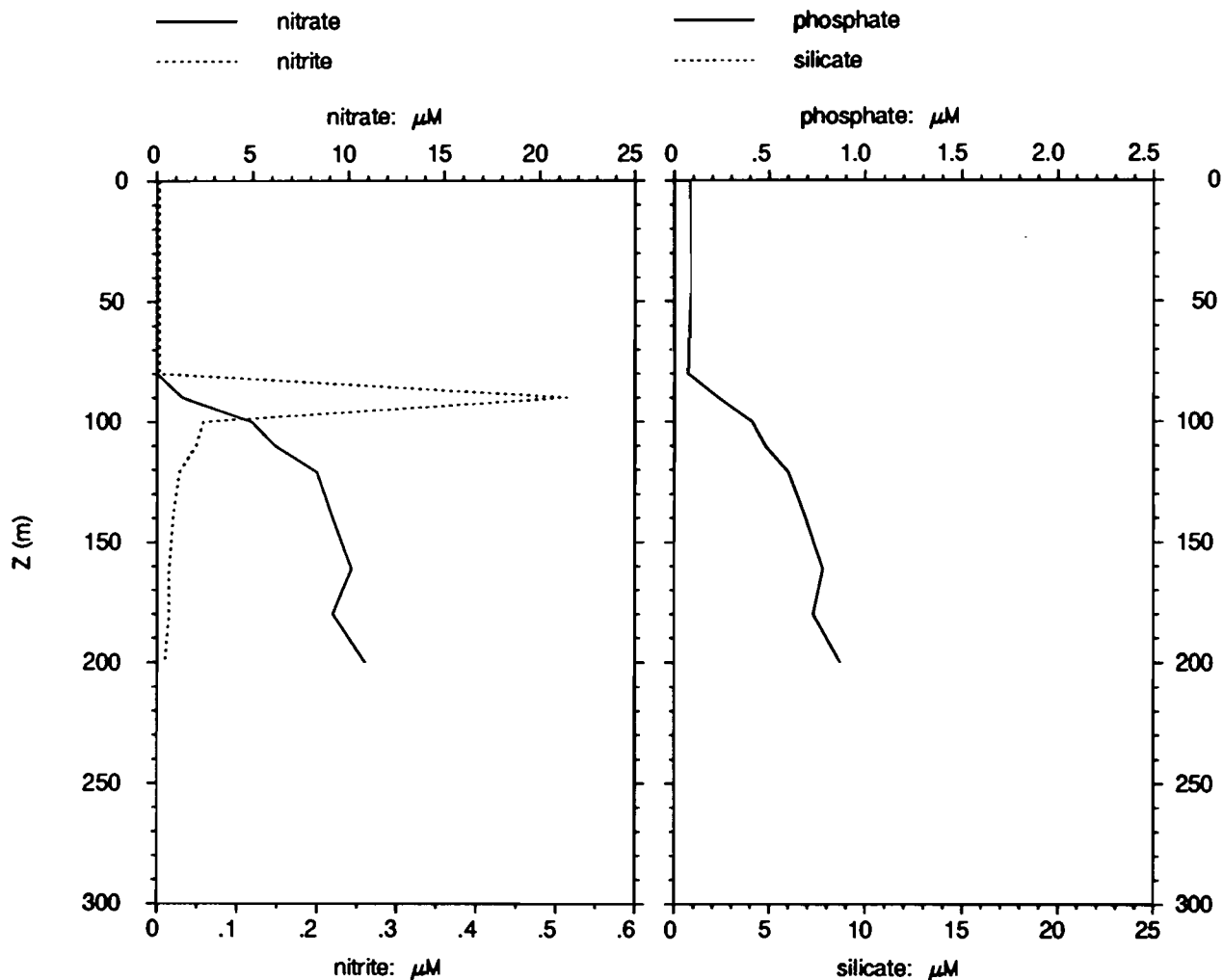
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.934	34.240		
20.0	28.930	34.239		
30.0	28.926	34.238		
40.0	28.919	34.236		
50.0	28.896	34.230		
75.0	28.674	34.275		
100.0	25.274	35.124		
125.0	23.614	35.153		
150.0	21.989	35.138		
200.0	18.242	35.475		
250.0	14.815	35.176		
300.0	11.597	34.845		
400.0	9.954	34.729		
500.0	7.909	34.605		

# EQUALIS - station 21

1°30 S 156°15 E

13/11/92, 22h 5 TU

14/11/92, 8h 5 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.003	0.08	
21	0.002	0.003	0.09	
41	0.006	0.003	0.09	
60	0.003	0.003	0.08	
80	0.004	0.003	0.07	
90	1.337	0.514	0.23	
100	4.93	0.058	0.41	
110	6.14	0.049	0.48	
121	8.32	0.028	0.60	
140	9.15	0.020	0.69	
161	10.14	0.015	0.78	
180	9.16	0.015	0.73	
200	10.83	0.010	0.87	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.11	34.28	0.141	0.069	32.79
21	28.94	34.23	0.085	0.059	40.82
41	28.90	34.20	0.107	0.078	42.41
60	28.86	34.23			
80	28.35	33.84	0.211	0.177	45.55
90	26.09	34.39	0.278	0.273	49.58
100	24.68	35.04	0.168	0.237	58.61
110	24.04	34.82	0.115	0.172	60.04
121	23.31	35.01	0.078	0.135	63.21
140	22.14	34.63	0.044	0.085	65.83
161	20.15	35.06	0.033	0.079	70.24
180	20.02	34.39	0.022	0.045	67.47
200	17.74	35.39	0.006	0.028	82.45

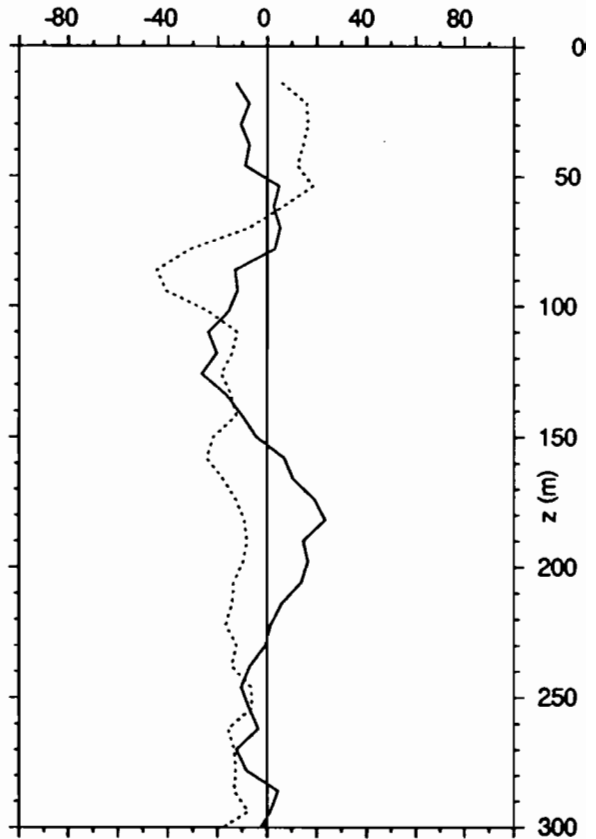
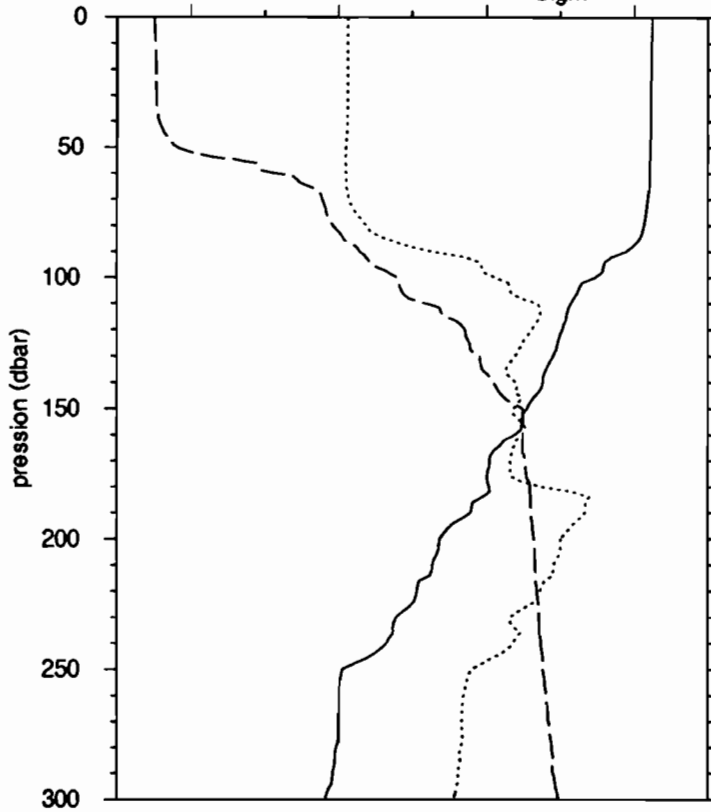
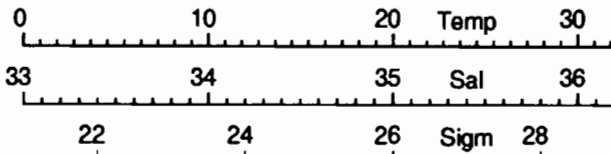


# EQUALIS -station 22

1°30 S 156°15 E

14/11/92, 1h 1 TU

14/11/92, 11h 1 locale

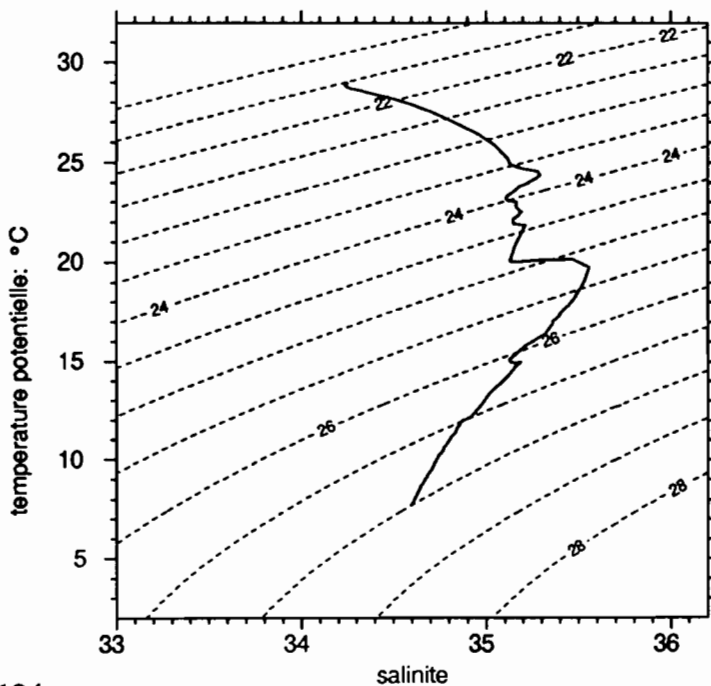


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	28.987	34.249
fin	506.0	7.796	34.600

	Z	U	V
debut	14.0	-12.5	6.0
fin	310.0	-5.1	-18.9



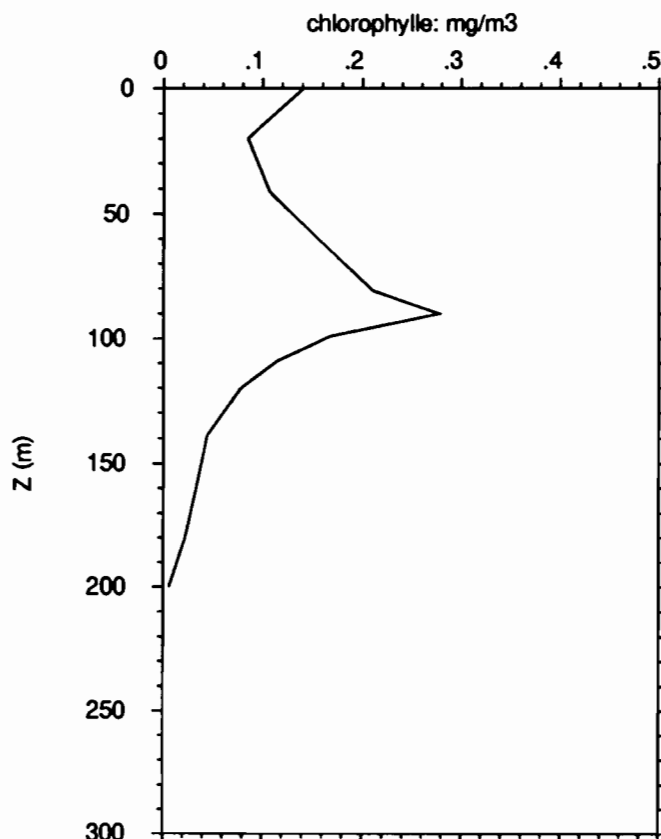
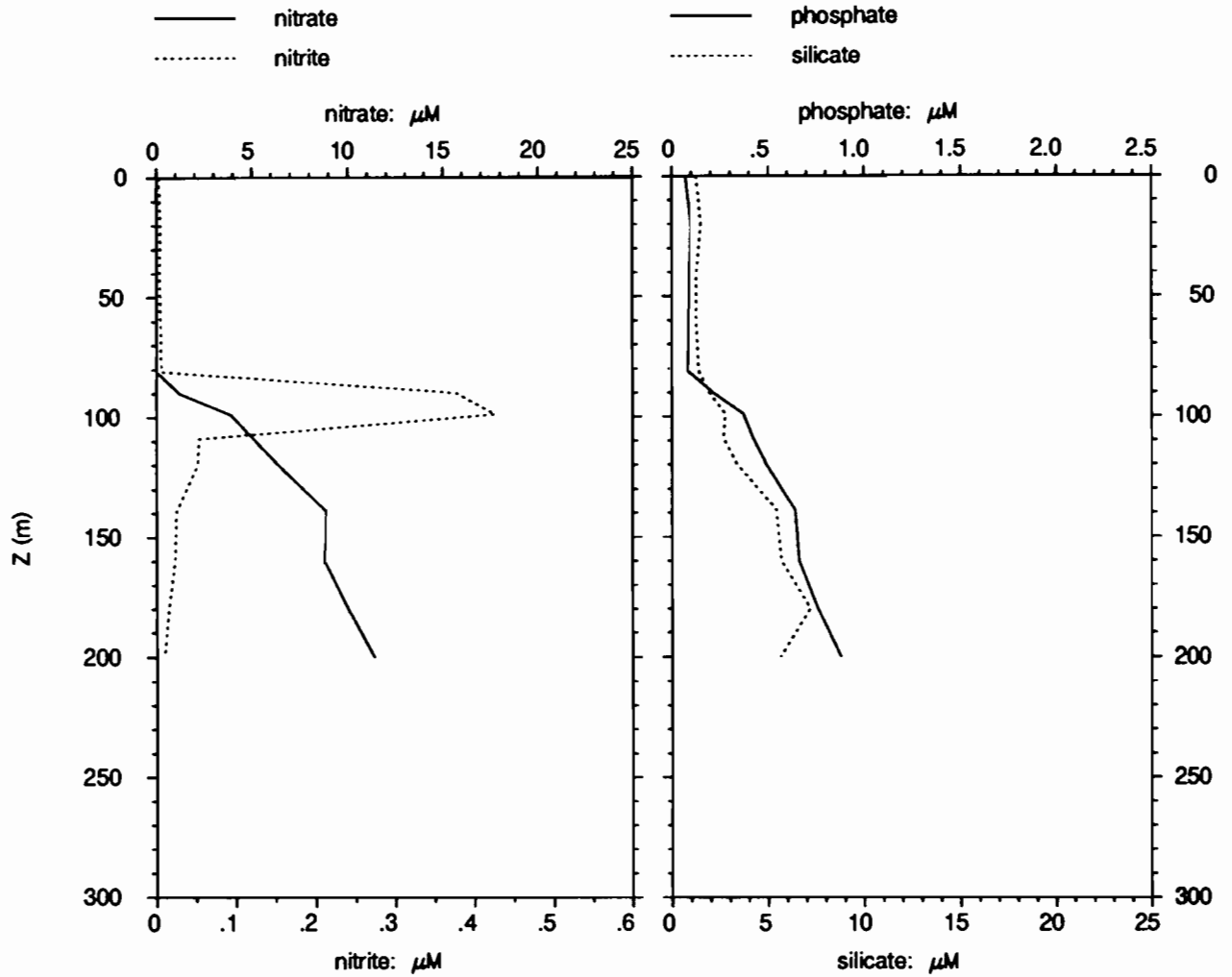
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.963	34.249		
20.0	28.943	34.249	-8.5	13.5
30.0	28.939	34.248	-10.6	16.6
40.0	28.933	34.248	-7.5	14.0
50.0	28.891	34.239	-1.9	15.4
75.0	28.655	34.293	4.0	-22.1
100.0	25.882	35.048	-14.5	-28.0
125.0	23.875	35.194	-25.6	-18.0
150.0	22.197	35.144	-4.2	-21.7
200.0	17.499	35.403	15.9	-10.5
250.0	12.205	34.919	-8.9	-6.2
300.0	11.283	34.824	-2.4	-17.6
400.0	10.103	34.736		
500.0	8.024	34.612		

# EQUALIS - station 22

1°30 S 156°15 E

14/11/92, 1h 1 TU

14/11/92, 11h 1 locale



Z	NO3	NO2	PO4	SiO2
m	μM	μM	μM	μM
0	0.000	0.003	0.07	1.2
20	0.001	0.005	0.10	1.5
41	0.002	0.004	0.09	1.2
59	0.003	0.005	0.09	1.2
81	0.002	0.006	0.08	1.4
90	1.187	0.377	0.21	1.9
99	3.87	0.426	0.37	2.8
109	5.08	0.053	0.42	2.7
120	6.39	0.051	0.49	3.4
139	8.85	0.025	0.64	5.4
160	8.78	0.023	0.66	5.7
180	10.02	0.015	0.76	7.2
200	11.38	0.010	0.88	5.7

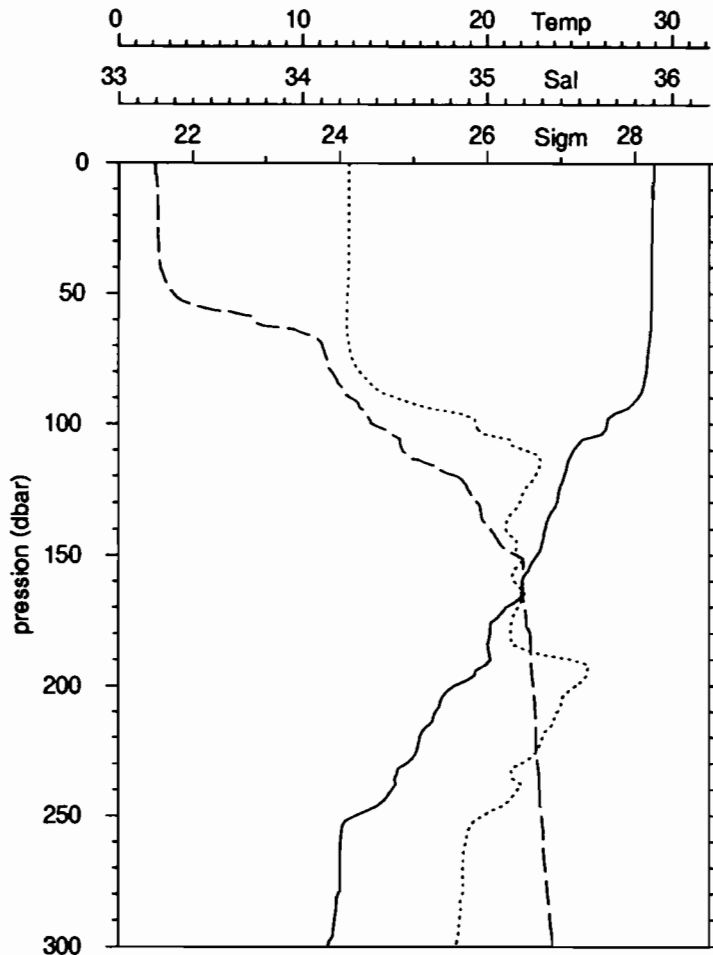
Z	T	S	Chl	Pheo	%Pheo
m	°C		mg/m3	mg/m3	%
0	29.44	34.29	0.141	0.069	32.79
20	28.94	34.24	0.085	0.059	40.82
41	28.93	34.21	0.107	0.078	42.41
59	28.82	34.05		0.367	
81	28.12	34.01	0.211	0.177	45.55
90	26.39	34.49	0.278	0.273	49.58
99	25.13	35.00	0.168	0.237	58.61
109	24.59	35.12	0.115	0.172	60.04
120	24.07	34.93	0.078	0.135	63.21
139	23.07	34.81	0.044	0.085	65.83
160	21.70	34.75	0.033	0.079	70.24
180	20.10	33.97	0.022	0.045	67.47
200	17.46	35.37	0.006	0.028	82.45

# EQUALIS -station 23

14/11/92, 2h 0 TU

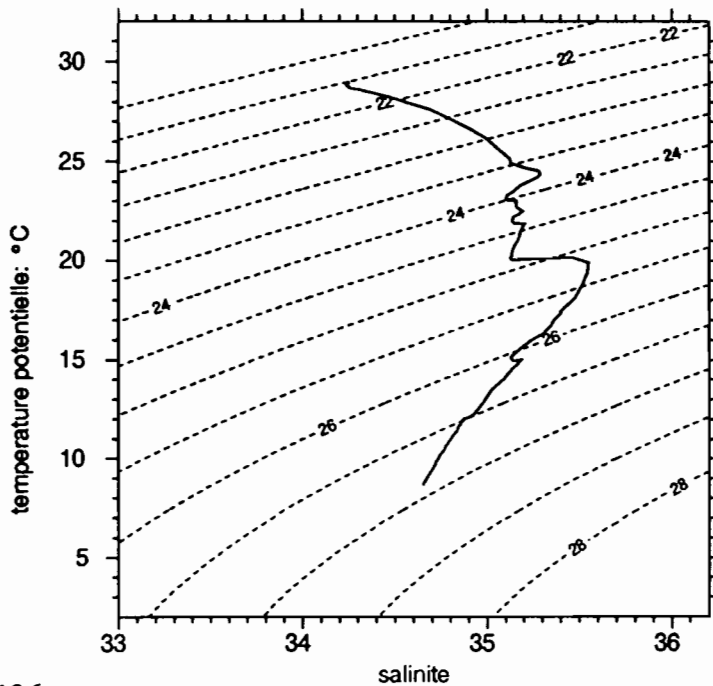
1°30 S 156°15 E

14/11/92, 12h 0 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.036	34.251
fin	502.0	8.764	34.651



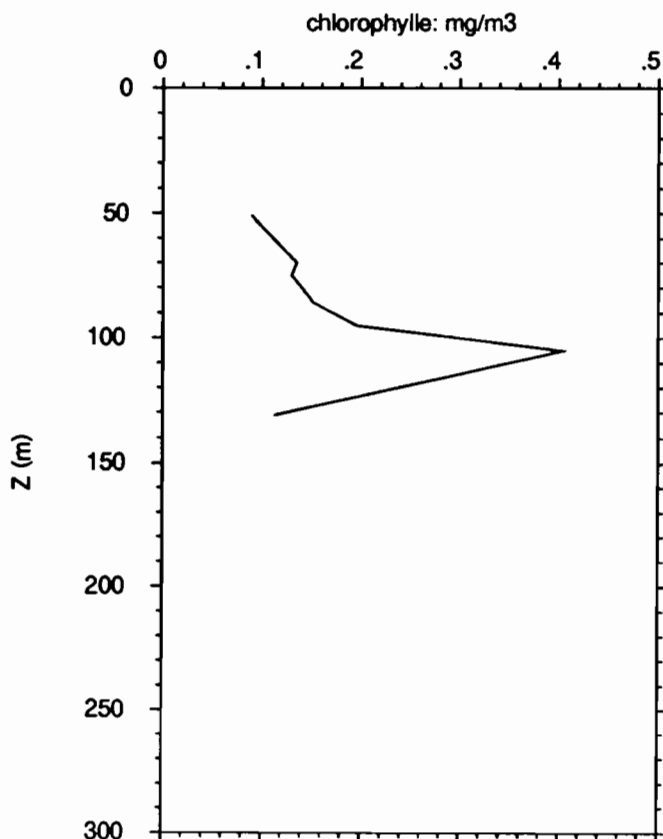
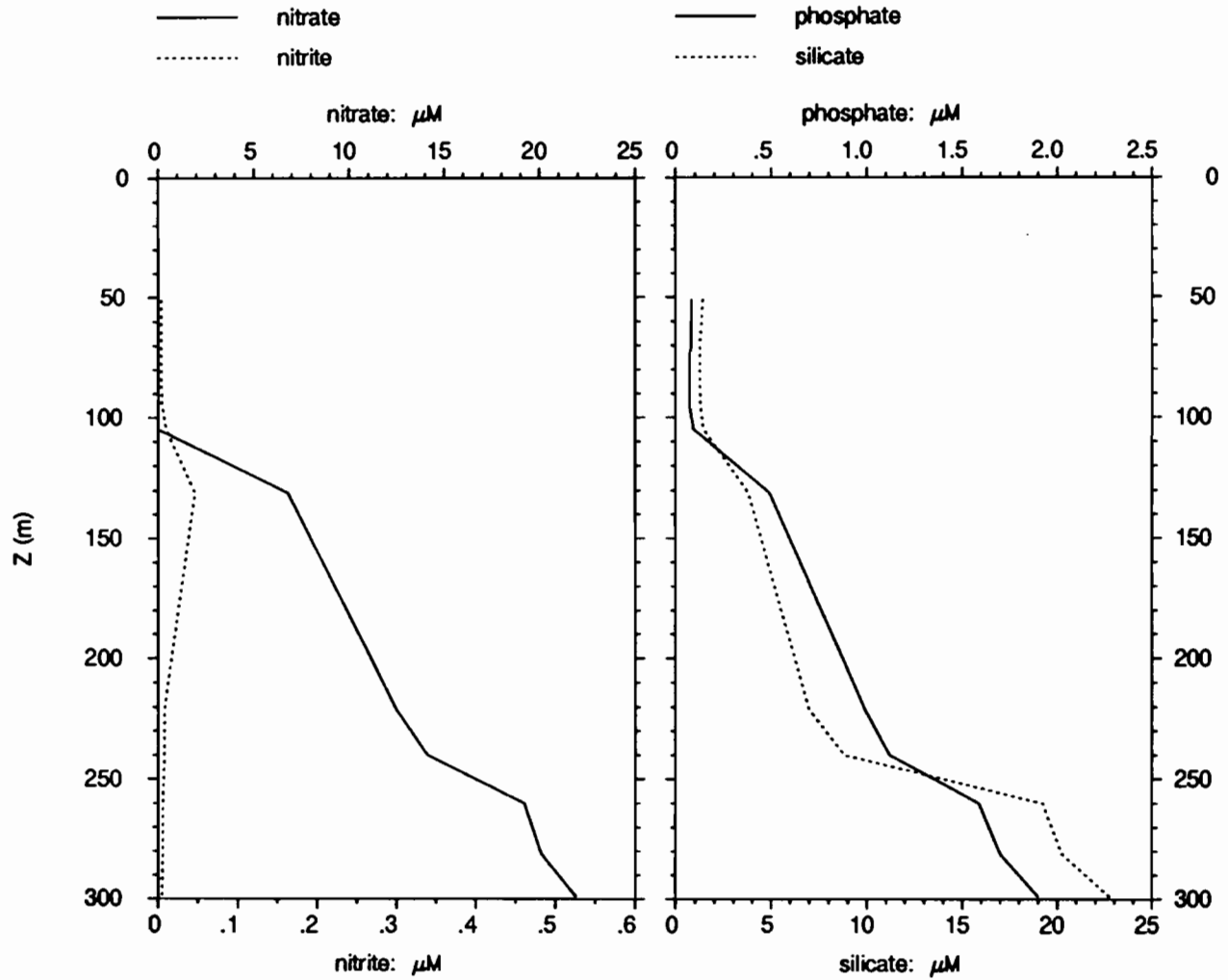
P dbar	T °C	S	U cm/s	V cm/s
10.0	28.979	34.250		
20.0	28.948	34.249		
30.0	28.940	34.249		
40.0	28.934	34.249		
50.0	28.900	34.242		
75.0	28.692	34.269		
100.0	26.495	34.939		
125.0	23.937	35.208		
150.0	22.730	35.161		
200.0	18.219	35.483		
250.0	12.862	34.980		
300.0	11.352	34.829		
400.0	10.280	34.746		
500.0	8.768	34.652		

# EQUALIS - station 23

1°30 S 156°15 E

14/11/92, 2h 0 TU

14/11/92, 12h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
51	0.003	0.004	0.08	1.4
70	0.001	0.004	0.08	1.2
75	0.001	0.004	0.07	1.2
86	0.001	0.004	0.07	1.2
95	0.001	0.005	0.07	1.2
105	0.005	0.010	0.09	1.4
131	6.78	0.046	0.49	3.8
221	12.47	0.008	0.99	7.0
240	14.13	0.008	1.12	8.8
260	19.21	0.006	1.59	19.2
281	20.10	0.006	1.70	20.2
299	21.92	0.005	1.90	22.7

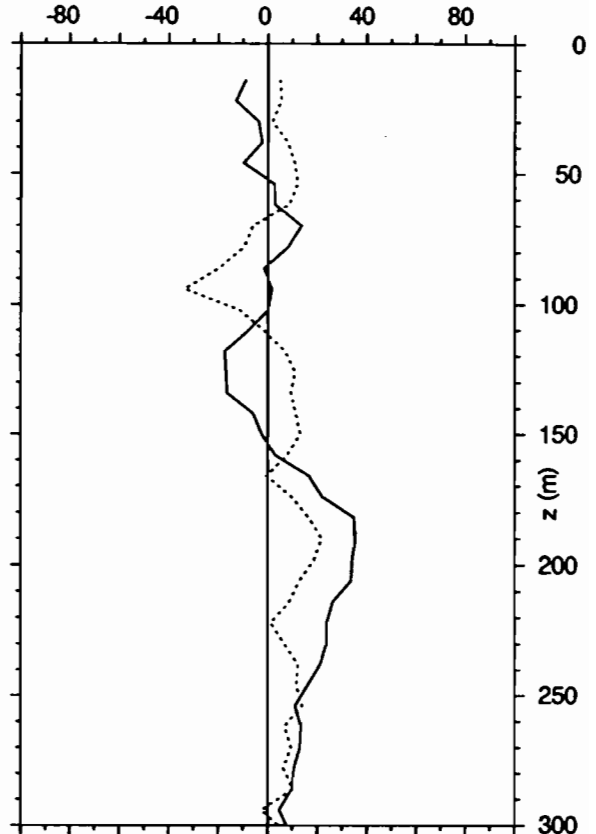
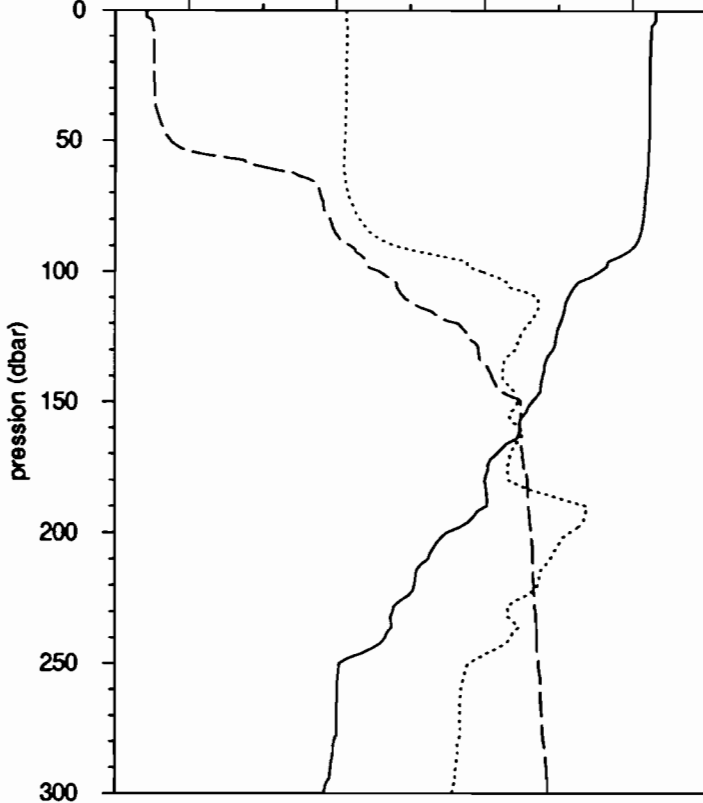
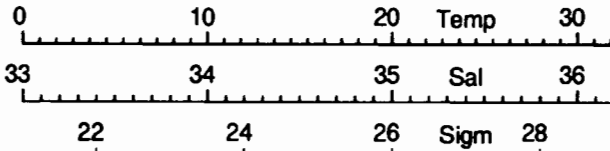
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
51	28.90	34.22	0.089	0.076	46.00
70	28.84	34.21	0.135	0.079	36.98
75	28.78	34.20	0.130	0.096	42.29
86	28.66	34.14	0.152	0.120	44.14
95	28.40	33.87	0.196	0.171	46.59
105	27.17	34.13	0.404	0.322	44.40
131	23.92	35.18	0.113	0.190	62.62
221	16.30	34.62			
240	14.77	33.88			
260	12.06	34.86			
281	11.84	34.56			
299	11.38	34.82			

# EQUALIS -station 24

14/11/92, 4h 0 TU

1°30 S 156°15 E

14/11/92, 14h 0 locale

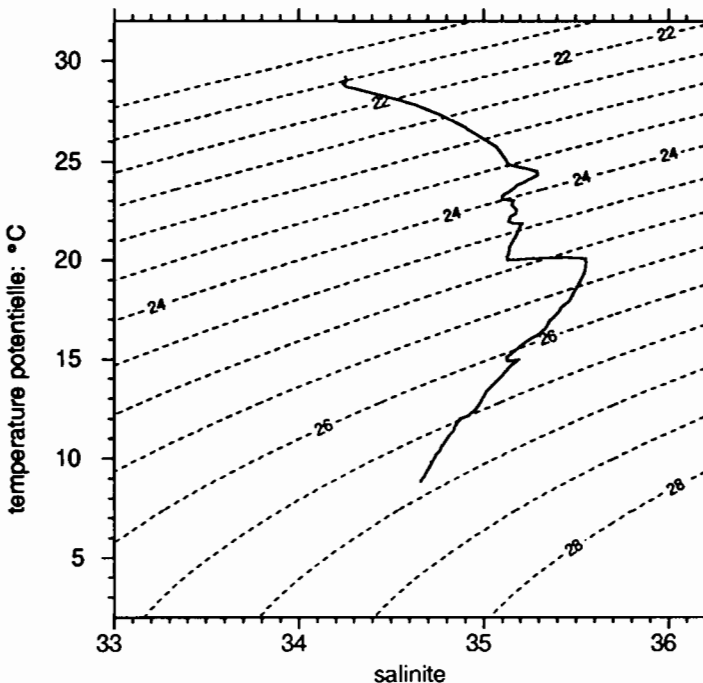


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.257	34.254
fin	502.0	8.863	34.659

	Z	U	V
debut	14.0	-8.9	5.0
fin	310.0	4.8	4.7



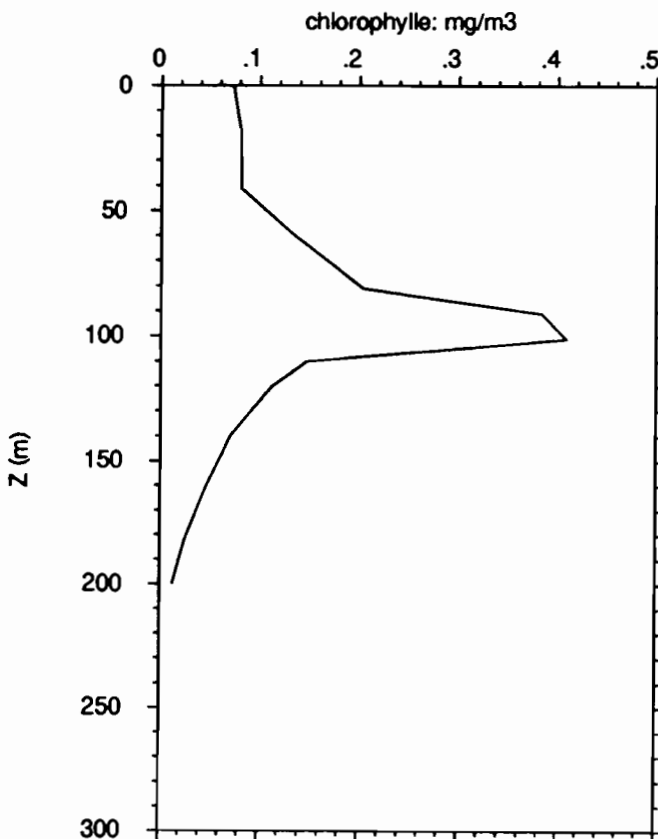
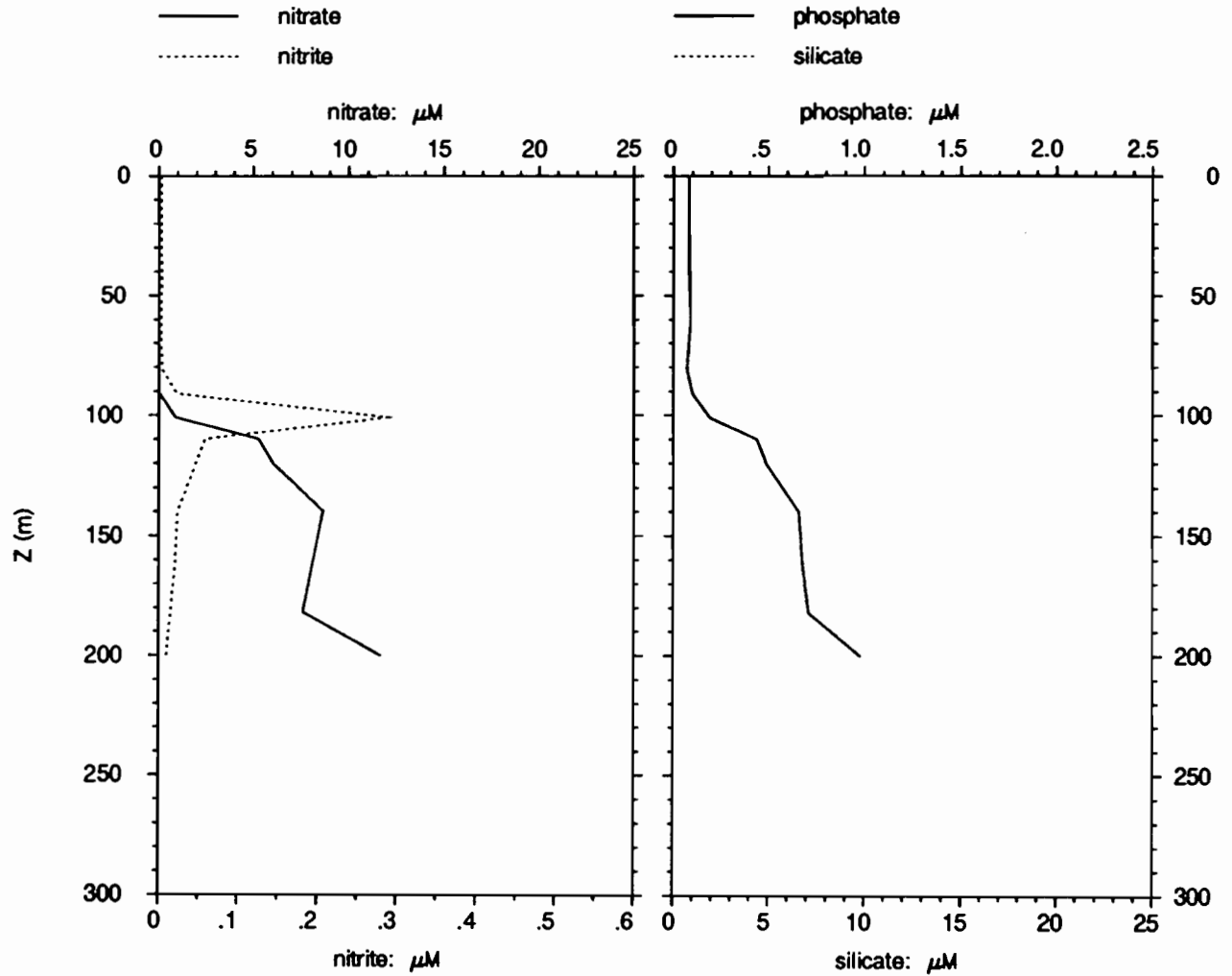
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	28.992	34.257		
20.0	28.951	34.254	-11.8	5.4
30.0	28.942	34.254	-3.7	2.0
40.0	28.931	34.251	-4.1	8.8
50.0	28.903	34.246	-3.5	11.5
75.0	28.672	34.290	10.3	-8.1
100.0	26.206	34.994	0.6	-17.0
125.0	23.901	35.194	-16.9	10.6
150.0	22.605	35.180	-2.4	13.2
200.0	17.954	35.464	34.1	17.3
250.0	12.161	34.914	13.6	12.8
300.0	11.309	34.825	7.7	4.2
400.0	10.270	34.745		
500.0	8.929	34.662		

# EQUALIS - station 24

1°30 S 156°15 E

14/11/92, 4h 0 TU

14/11/92, 14h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.003	0.08	
19	0.003	0.003	0.08	
41	0.001	0.004	0.08	
60	0.002	0.003	0.09	
81	0.011	0.004	0.07	
91	0.056	0.023	0.10	
101	0.877	0.289	0.19	
110	5.29	0.059	0.44	
120	6.03	0.047	0.49	
140	8.67	0.024	0.66	
161		0.021	0.68	
182	7.61	0.015	0.71	
200	11.66	0.010	0.98	

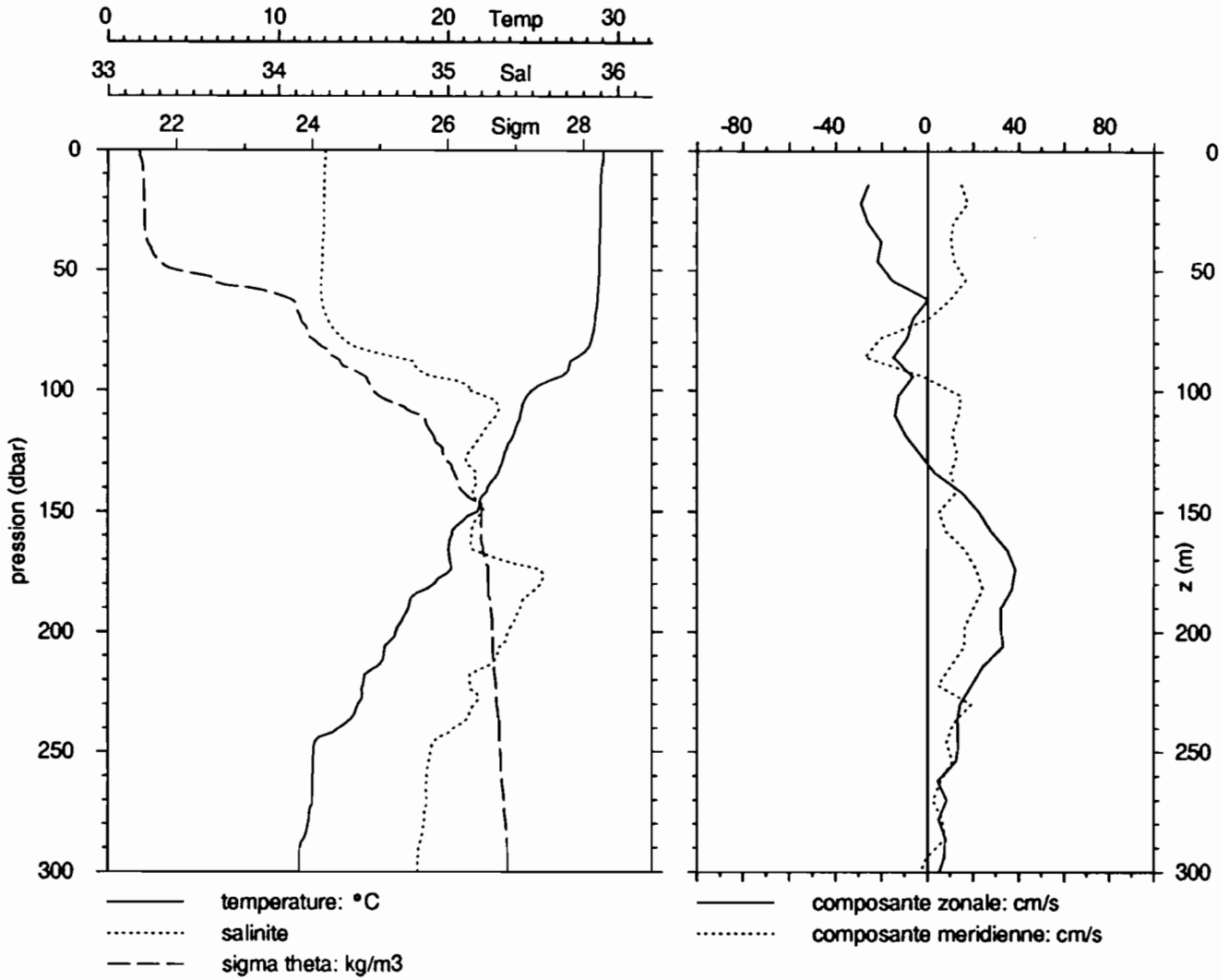
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.78	34.29	0.073	0.042	36.11
19	28.95	34.24	0.081	0.033	29.02
41	28.93	34.21	0.081	0.049	37.66
60	28.83	34.17	0.135	0.067	33.16
81	28.49	34.13	0.204	0.139	40.50
91	27.44	34.17	0.384	0.333	46.46
101	26.48	34.49	0.409	0.376	47.87
110	24.58	34.98	0.147	0.272	64.95
120	24.07	34.82	0.113	0.171	60.15
140	23.09	34.79	0.071	0.120	62.73
161	21.83	34.57	0.046	0.096	67.76
182	20.18	34.26	0.025	0.038	60.65
200	17.18	35.34	0.013	0.004	25.16

# EQUALIS -station 25

1°30 S 156°15 E

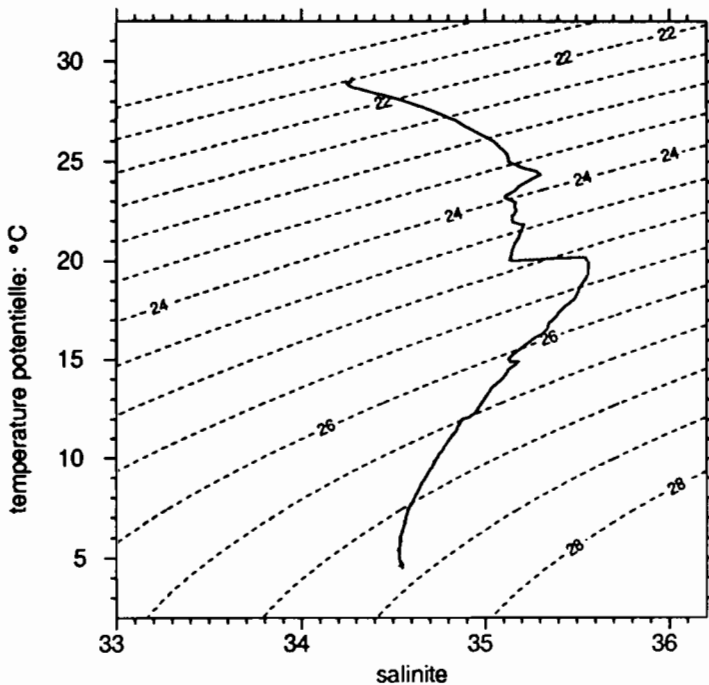
14/11/92, 6h59 TU

14/11/92, 16h59 locale



	P	T	S
debut	4.0	29.173	34.278
fin	998.0	4.543	34.553

	Z	U	V
debut	14.0	-25.8	14.8
fin	350.0	10.9	-0.4



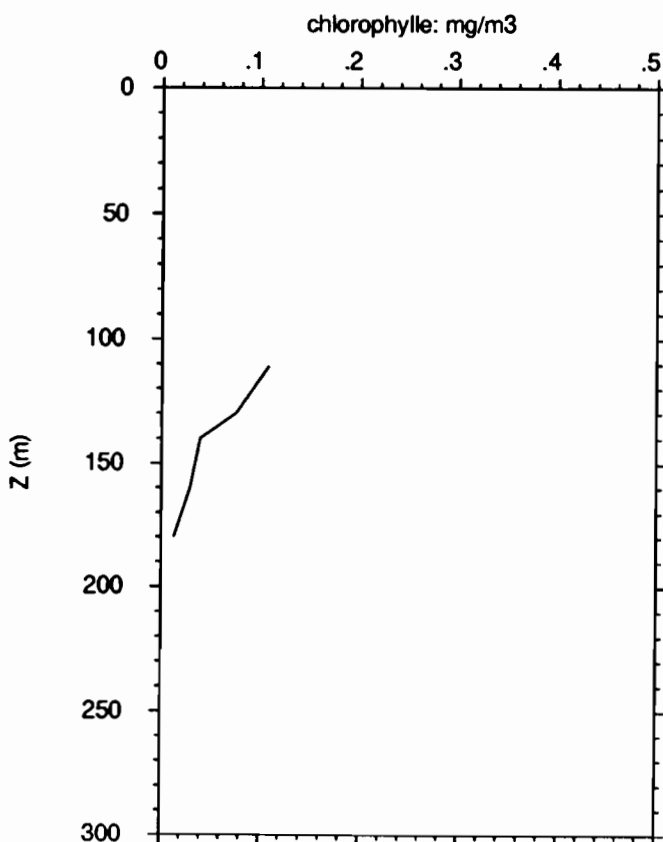
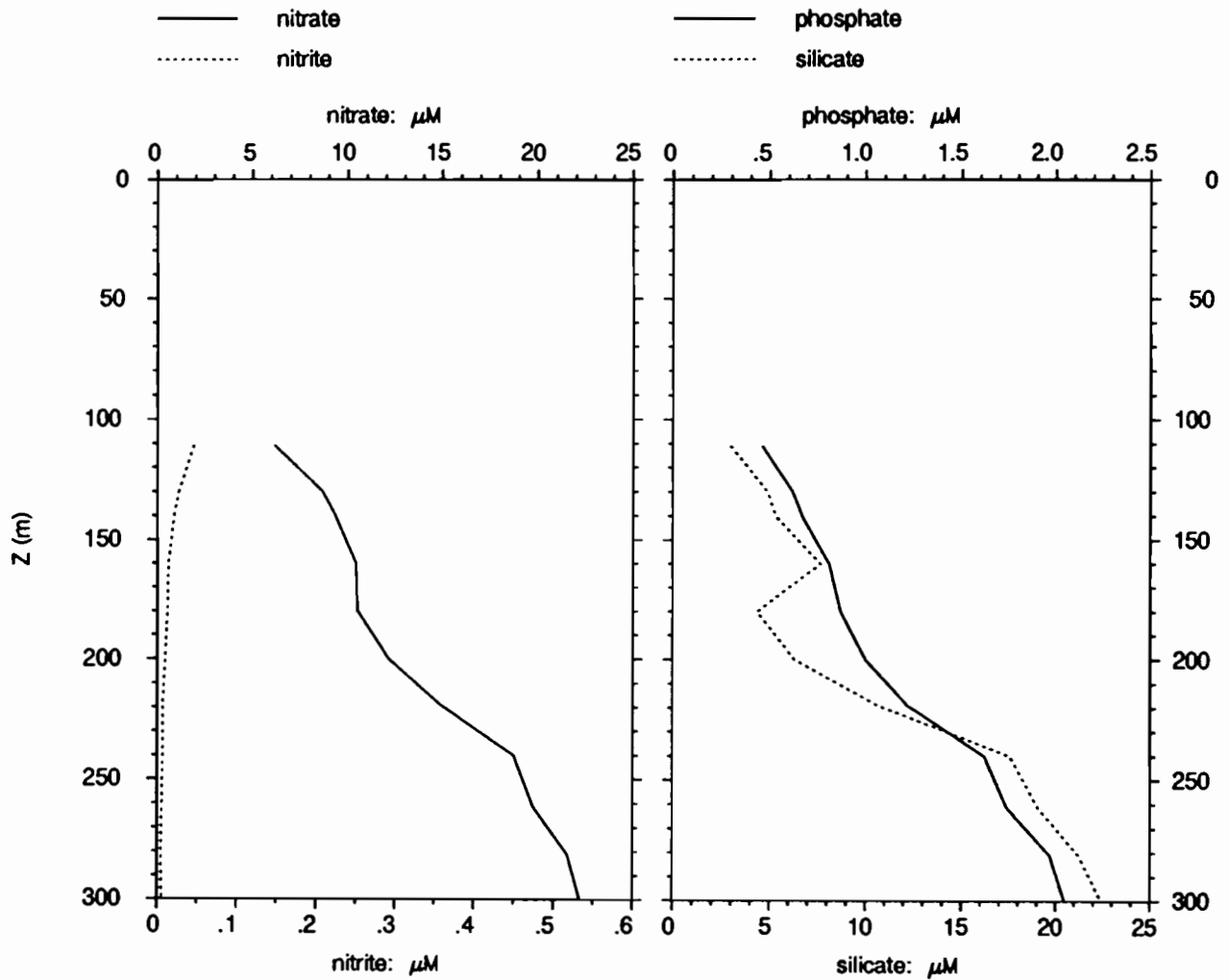
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.050	34.272		
20.0	29.001	34.270	-28.3	16.9
30.0	28.987	34.269	-26.1	11.2
40.0	28.952	34.261	-20.6	10.7
50.0	28.927	34.258	-18.6	14.3
75.0	28.604	34.331	-7.9	-12.4
100.0	24.986	35.131	-11.1	10.6
125.0	23.423	35.132	-4.0	12.8
150.0	21.765	35.208	22.6	5.1
200.0	16.951	35.359	32.5	16.3
250.0	12.090	34.899	13.1	9.6
300.0	11.224	34.821	5.2	-3.1
400.0	9.896	34.727		
500.0	8.747	34.651		
600.0	6.678	34.558		
700.0	6.089	34.540		
800.0	5.501	34.526		
900.0	4.814	34.542		

# EQUALIS - station 25

1°30 S 156°15 E

14/11/92, 6h59 TU

14/11/92, 16h59 locale



Z m	NO <sub>3</sub> μM	NO <sub>2</sub> μM	PO <sub>4</sub> μM	SiO <sub>2</sub> μM
111	6.16	0.046	0.46	3.0
130	8.68	0.027	0.62	4.9
140	9.35	0.021	0.67	5.3
160	10.44	0.014	0.81	7.7
180	10.53	0.013	0.87	4.3
200	12.15	0.010	1.00	6.3
219	14.90	0.007	1.22	10.7
240	18.75	0.007	1.62	17.6
261	19.75	0.006	1.74	19.0
281	21.56	0.005	1.97	21.2
301	22.26	0.006	2.05	22.5
1000	28.45	0.002	3.06	67.9

Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
111	24.13	35.04	0.108	0.180	62.41
130	23.15	34.84	0.075	0.139	64.83
140	22.39	34.25	0.039	0.084	68.29
160	20.22	34.93	0.029	0.050	63.12
180	19.10	34.76	0.013	0.039	74.82
200	16.84	34.57			
219	14.96	35.02			
240	12.17	34.78			
261	12.00	34.67			
281	11.41	34.73			
301	11.14	34.80			
1000	4.54	34.55			

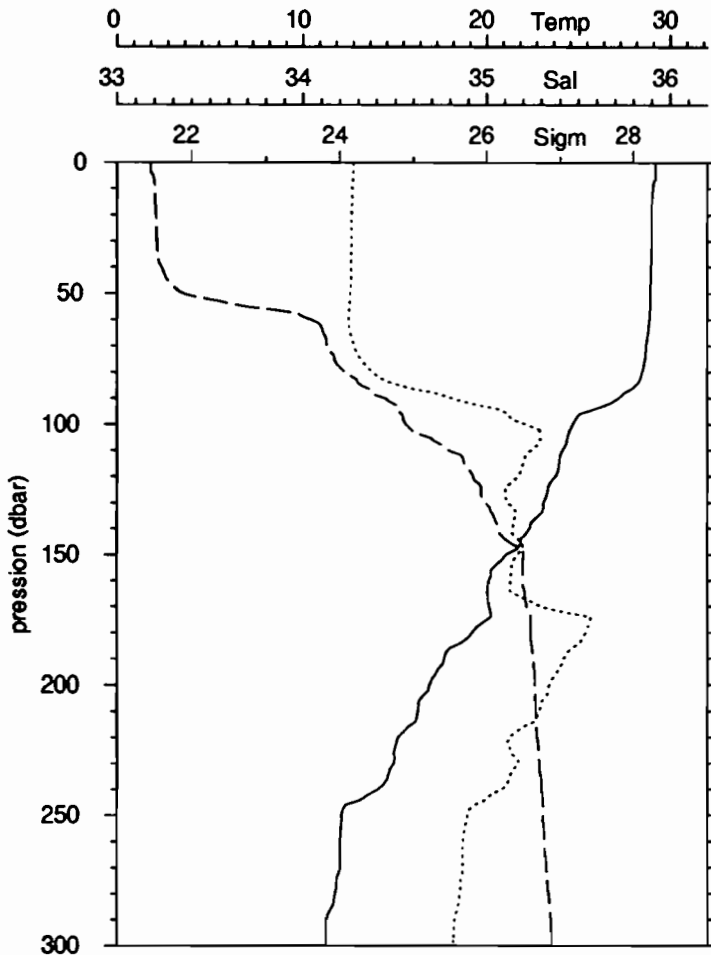


# EQUALIS -station 27

1°30 S 156°15 E

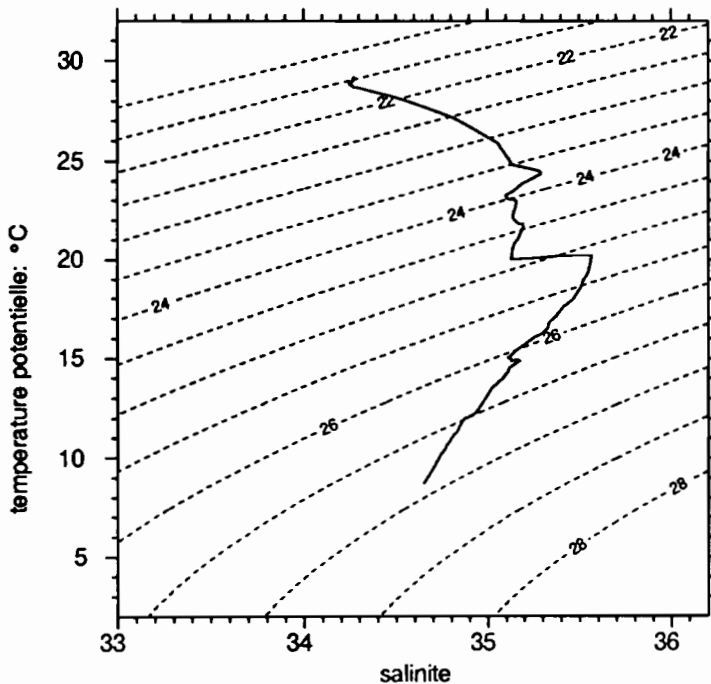
14/11/92, 8h 6 TU

14/11/92, 18h 6 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.198	34.272
fin	500.0	8.761	34.648



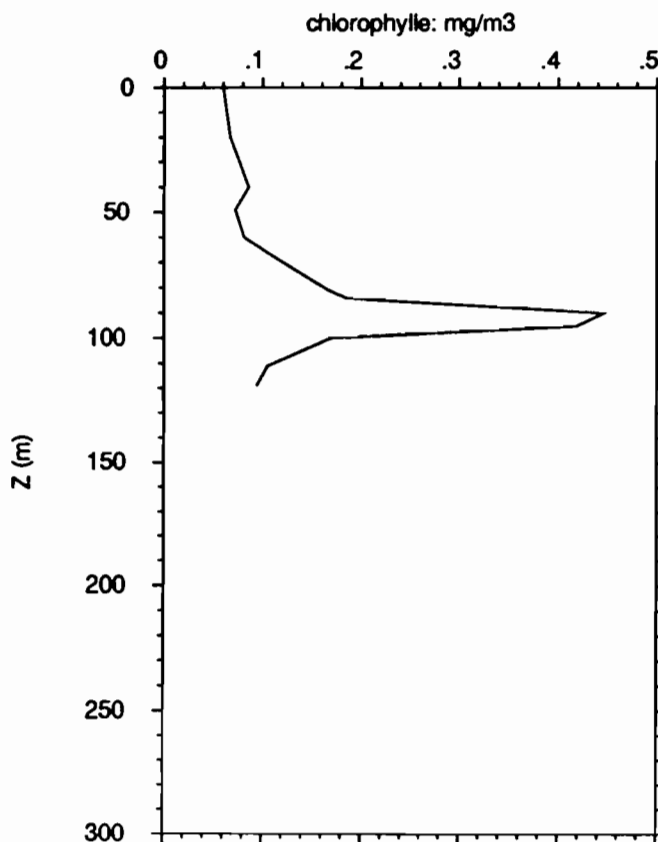
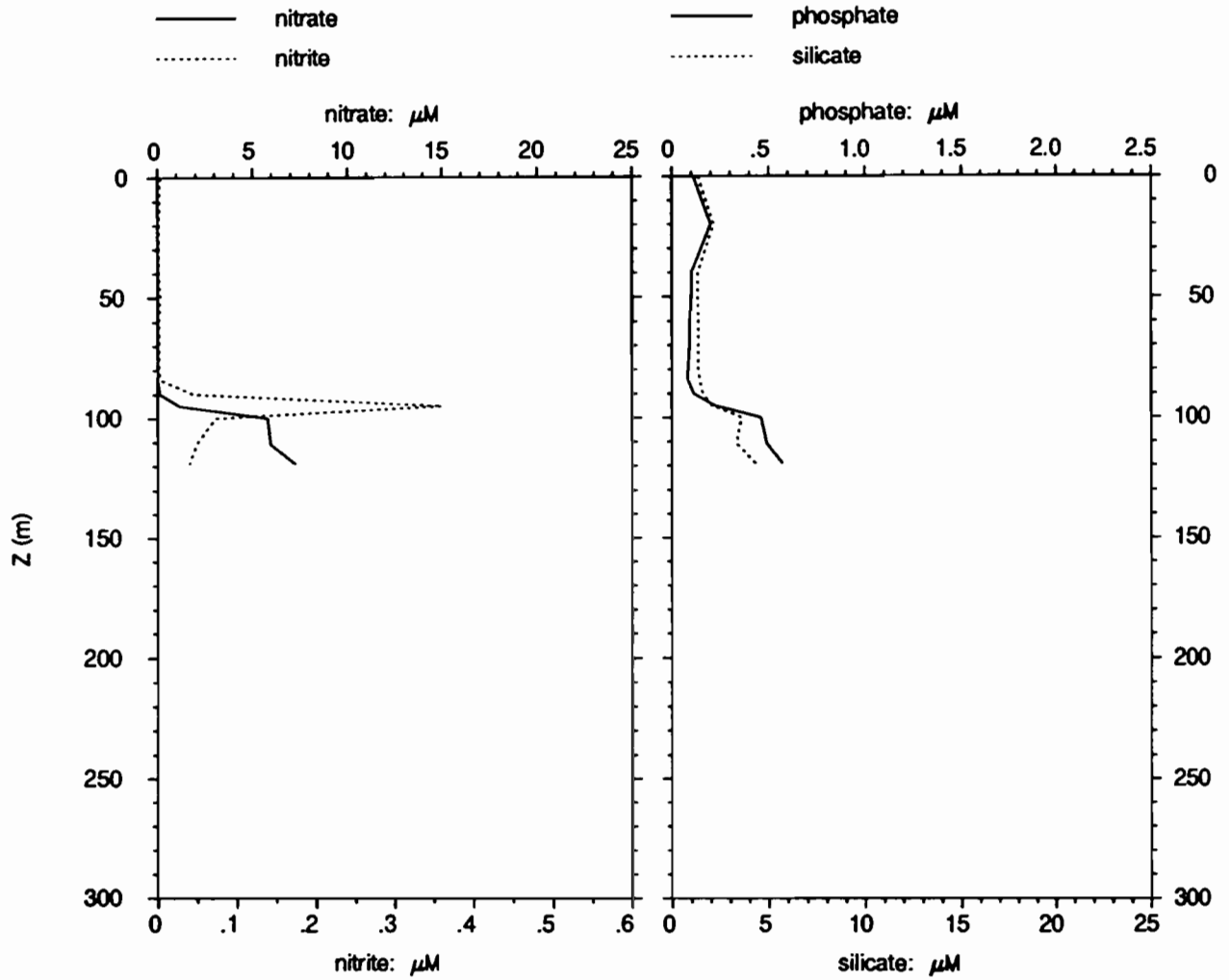
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.064	34.266		
20.0	29.011	34.263		
30.0	28.990	34.263		
40.0	28.963	34.260		
50.0	28.943	34.255		
75.0	28.634	34.312		
100.0	24.674	35.215		
125.0	23.321	35.102		
150.0	21.051	35.165		
200.0	16.856	35.339		
250.0	12.087	34.895		
300.0	11.227	34.816		
400.0	10.049	34.732		
500.0	8.761	34.648		

# EQUALIS - station 27

1°30 S 156°15 E

14/11/92, 8h 6 TU

14/11/92, 18h 6 locale



Z	NO3	NO2	PO4	SiO2
m	μM	μM	μM	μM
0	0.003	0.003	0.11	1.4
20	0.004	0.002	0.20	2.2
40	0.004	0.002	0.10	1.3
49	0.002	0.003	0.10	1.3
60	0.000	0.002	0.09	1.4
70	0.002	0.002	0.09	1.3
81	0.003	0.002	0.08	1.4
84	0.001	0.004	0.08	1.4
90	0.135	0.045	0.11	1.6
95	1.171	0.360	0.22	2.0
100	5.80	0.073	0.46	3.6
111	5.95	0.049	0.49	3.3
119	7.24	0.040	0.57	4.3

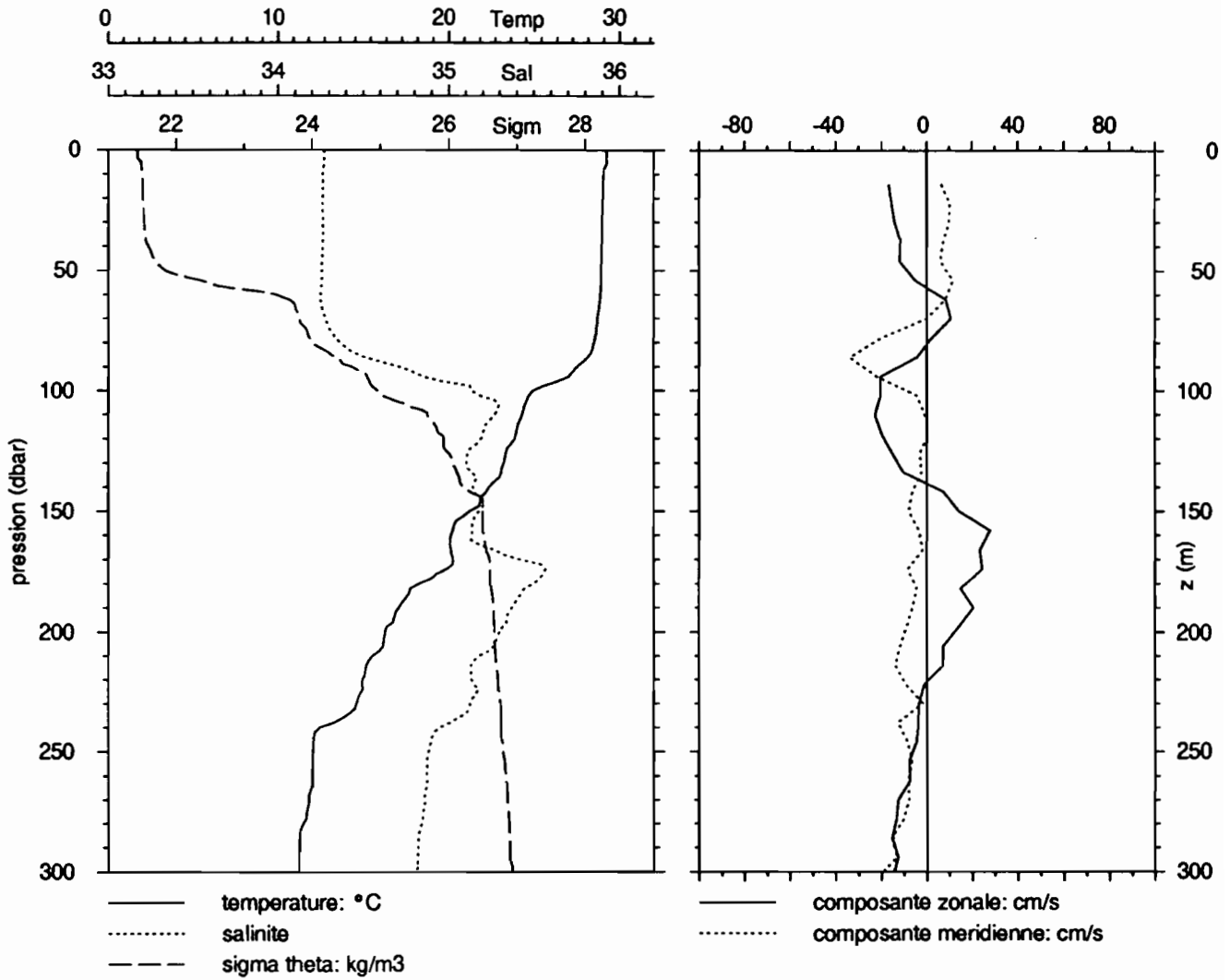
Z	T	S	Chl	Pheo	%Pheo
m	°C		mg/m3	mg/m3	%
0	29.85	34.32	0.060	0.036	37.52
20	29.02	34.26	0.067	0.072	51.74
40	28.96	34.25	0.086	0.056	39.56
49	28.96	34.24	0.072	0.042	36.73
60	28.90	34.19	0.081	0.057	41.46
70	28.74	34.19	0.121	0.086	41.64
81	28.50	34.29	0.167	0.118	41.43
84	28.32	34.22	0.185	0.149	44.62
90	27.27	34.36	0.446	0.357	44.41
95	25.57	34.79	0.418	0.397	48.70
100	24.67	35.02	0.169	0.250	59.65
111	24.17	35.05	0.105	0.169	61.66
119	23.87	35.16	0.094	0.159	62.92

# EQUALIS -station 28

14/11/92, 10h 5 TU

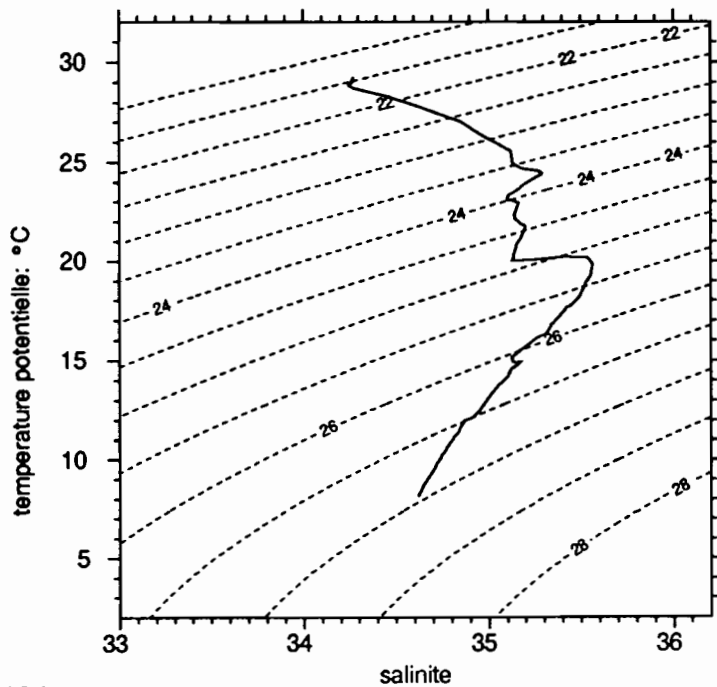
1°30 S 156°15 E

14/11/92, 20h 5 locale



	P	T	S
debut	6.0	29.253	34.271
fin	506.0	8.198	34.620

	Z	U	V
debut	14.0	-16.8	6.5
fin	366.0	-6.2	-10.9



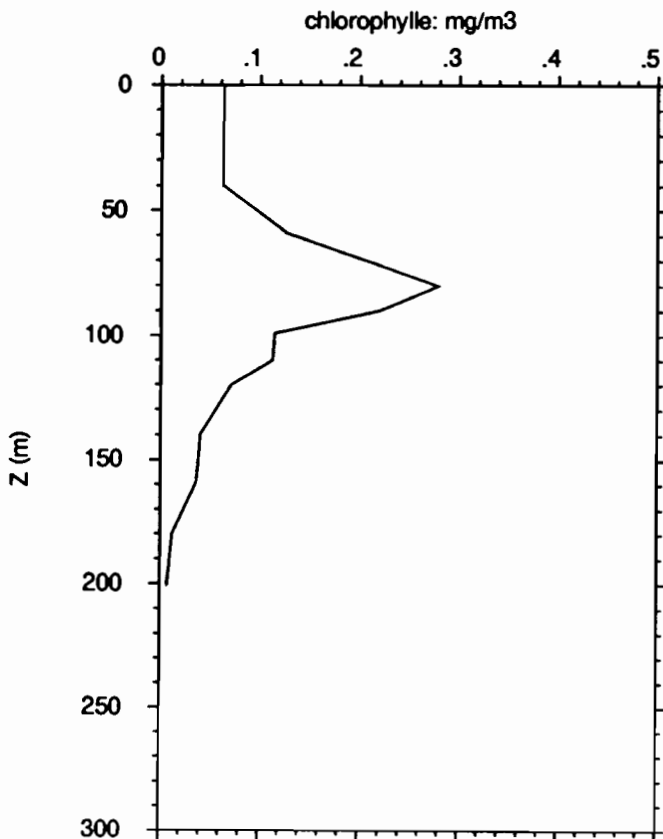
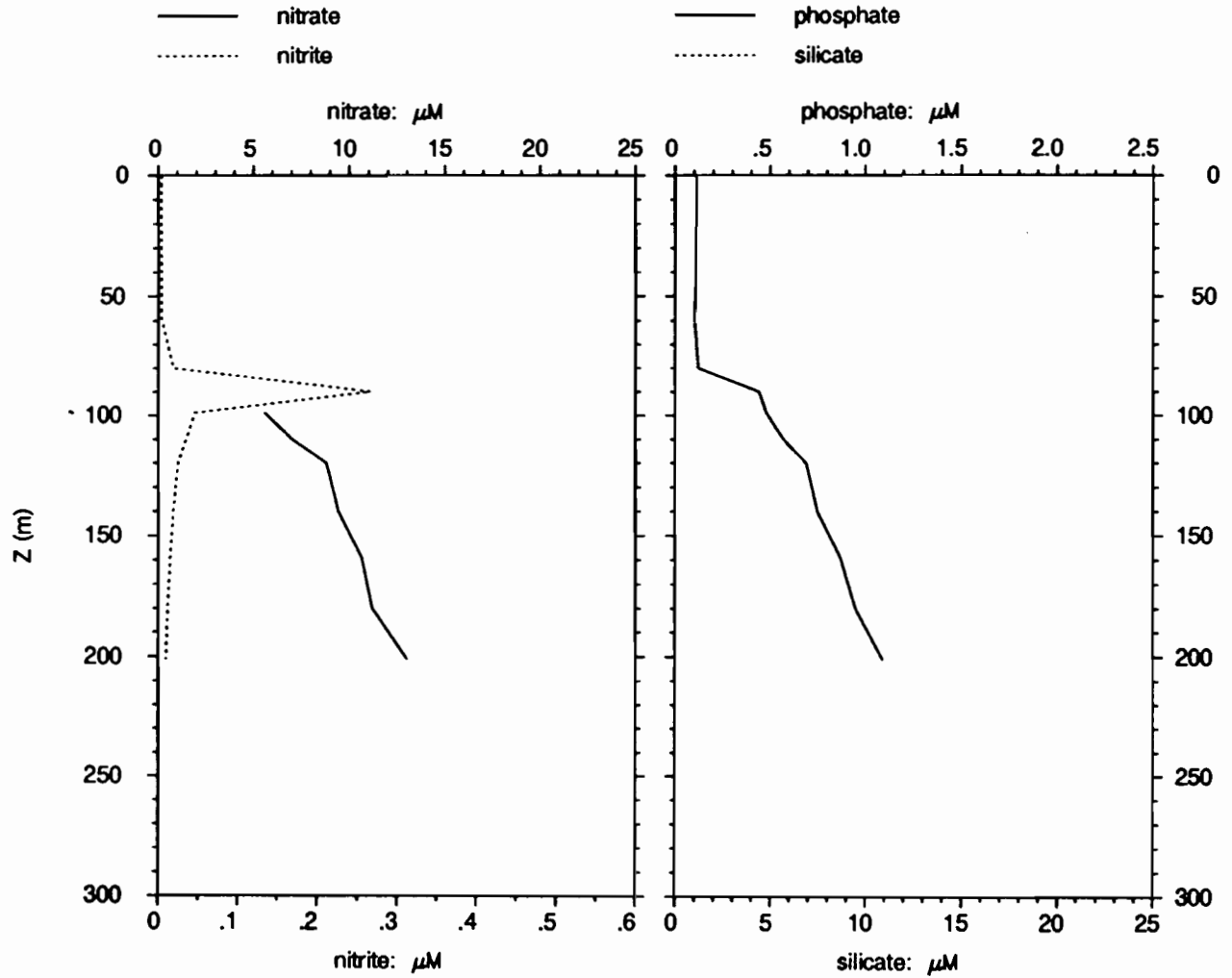
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.087	34.264		
20.0	29.025	34.263	-15.8	9.4
30.0	29.011	34.264	-14.1	10.0
40.0	28.983	34.262	-11.6	7.1
50.0	28.943	34.257	-8.5	8.9
75.0	28.645	34.306	5.3	8.9
100.0	24.935	35.132	-20.4	-8.6
125.0	23.385	35.117	-15.8	-2.5
150.0	21.199	35.176	14.2	-7.9
200.0	16.265	35.295	12.2	-9.8
250.0	12.042	34.881	-6.1	-7.5
300.0	11.183	34.814	-14.5	-19.5
400.0	9.875	34.720		
500.0	8.379	34.629		

# EQUALIS - station 28

1°30 S 156°15 E

14/11/92, 10h 5 TU

14/11/92, 20h 5 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.004	0.11	
20	0.001	0.004	0.11	
40	0.001	0.004	0.11	
59	0.001	0.004	0.10	
80	0.061	0.019	0.12	
90		0.267	0.44	
99	5.61	0.046	0.48	
110	7.02	0.035	0.57	
120	8.81	0.025	0.69	
140	9.43	0.019	0.75	
159	10.64	0.015	0.87	
180	11.19	0.012	0.95	
201	13.00	0.010	1.09	

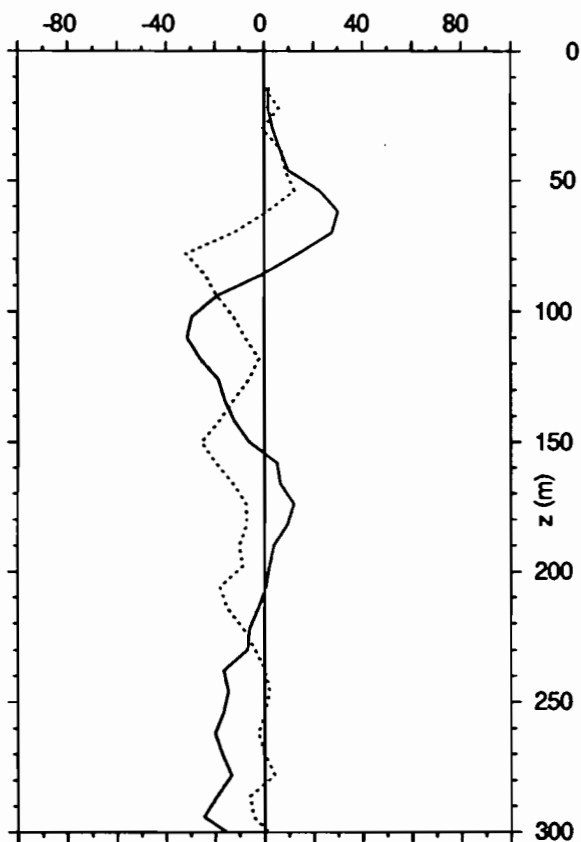
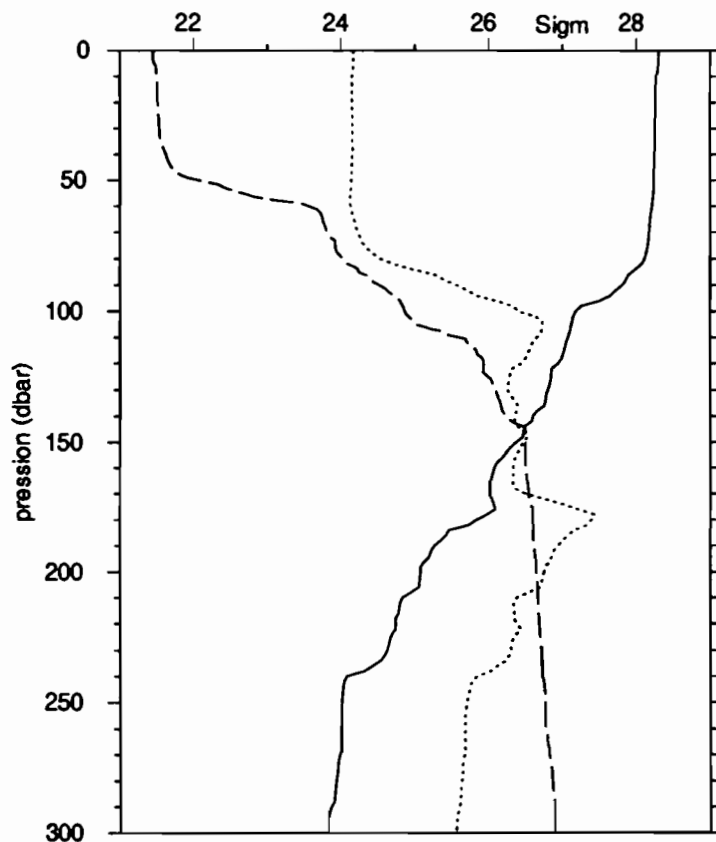
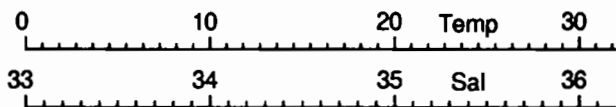
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.50	34.31	0.063	0.037	36.72
20	29.02	34.24	0.062	0.030	32.33
40	28.96	34.15	0.062	0.047	43.19
59	28.74	33.94	0.127	0.075	37.10
80	27.46	34.13	0.279	0.229	45.05
90	24.91	34.85	0.219	0.272	55.38
99	24.36	34.95	0.115	0.163	58.58
110	23.98	34.90	0.113	0.171	60.15
120	23.33	34.55	0.071	0.140	66.23
140	21.80	34.31	0.040	0.091	69.48
159	20.06	34.70	0.036	0.040	53.05
180	17.87	34.65	0.012	0.025	66.80
201	16.18	35.25	0.007	0.022	74.41

# EQUALIS -station 29

1°30 S 156°15 E

14/11/92, 13h 2 TU

14/11/92, 23h 2 locale

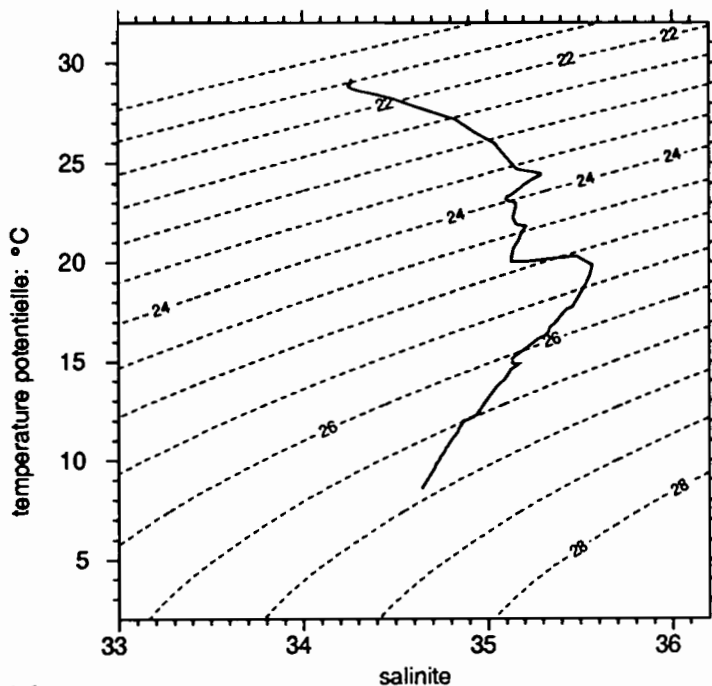


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.198	34.267
fin	504.0	8.603	34.643

	Z	U	V
debut	14.0	1.8	0.2
fin	326.0	-18.0	-12.5



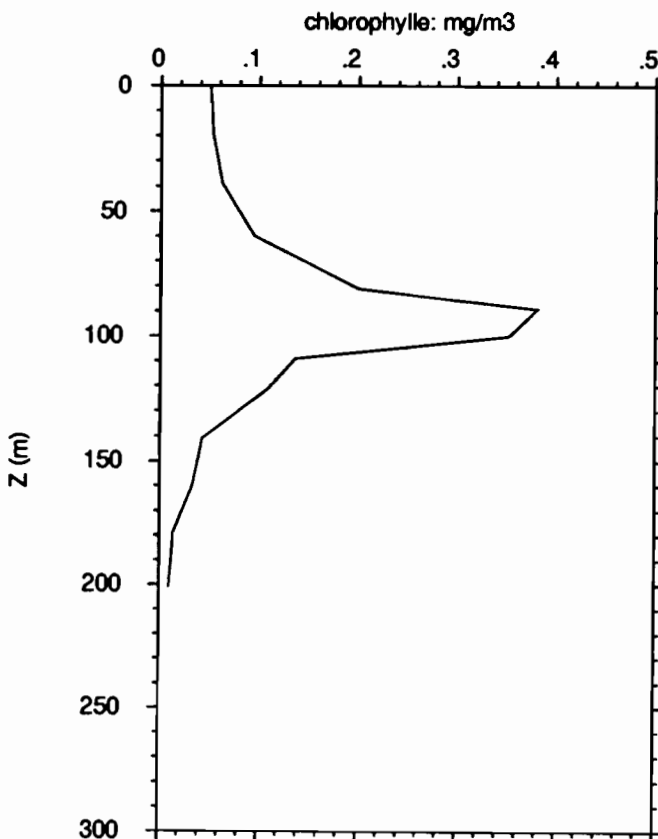
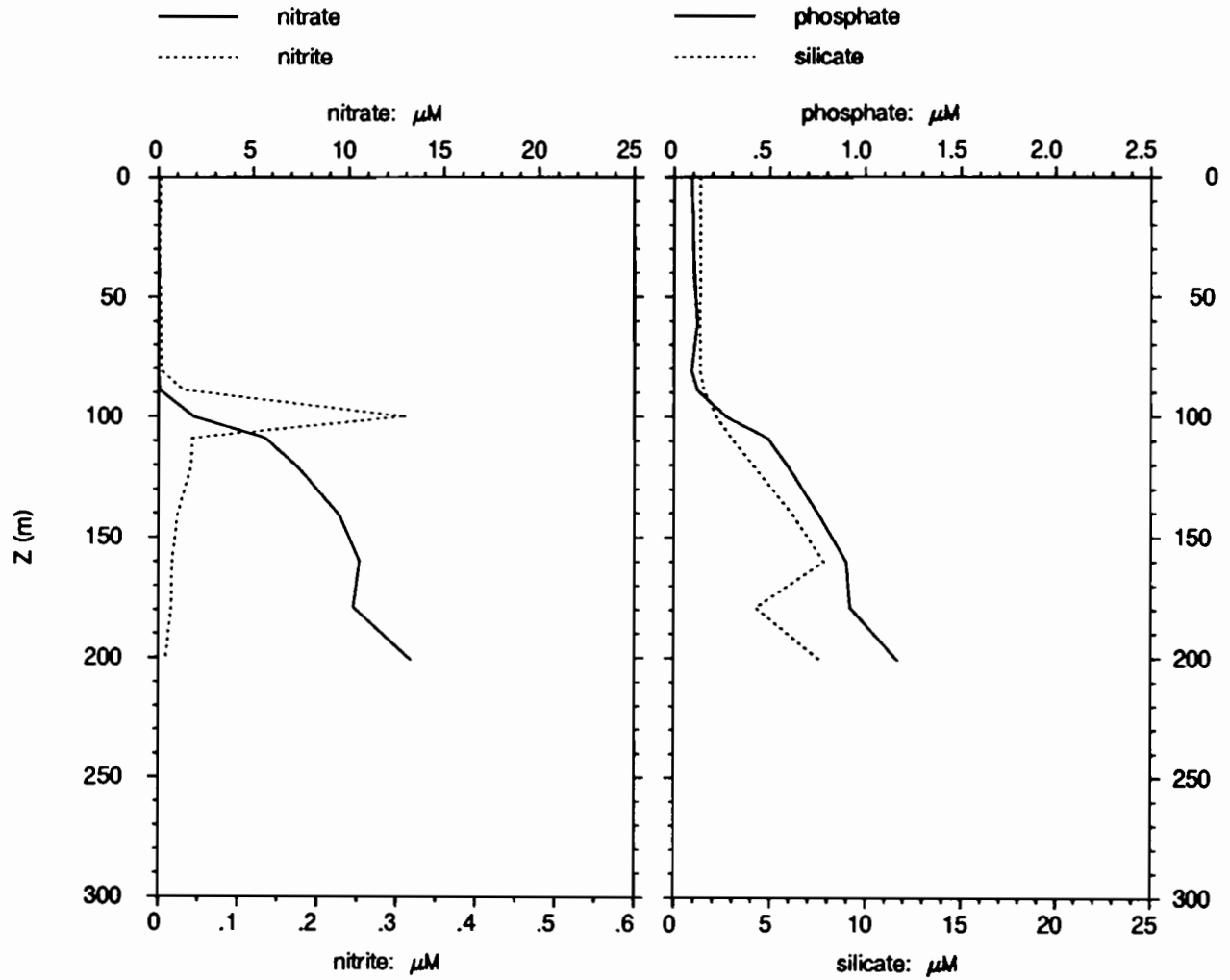
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.067	34.259		
20.0	29.033	34.260	1.7	4.6
30.0	29.005	34.262	3.6	-0.6
40.0	28.984	34.262	7.3	7.3
50.0	28.941	34.257	16.2	10.5
75.0	28.593	34.327	19.1	-24.5
100.0	24.701	35.161	-27.0	-14.1
125.0	23.367	35.112	-19.5	-5.5
150.0	21.468	35.185	-5.9	-25.5
200.0	16.274	35.298	1.8	-11.0
250.0	12.039	34.879	-15.6	1.2
300.0	11.263	34.819	-15.5	1.5
400.0	10.205	34.742		
500.0	8.744	34.648		

# EQUALIS - station 29

1°30 S 156°15 E

14/11/92, 13h 2 TU

14/11/92, 23h 2 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.003	0.09	1.4
20	0.000	0.002	0.10	1.4
39	0.000	0.002	0.10	1.4
60	0.001	0.003	0.12	1.3
81	0.000	0.004	0.09	1.4
89	0.073	0.031	0.12	1.5
100	1.84	0.306	0.27	2.2
109	5.64	0.043	0.49	3.0
121	7.33	0.041	0.60	4.2
141	9.50	0.024	0.76	6.2
160	10.54	0.017	0.90	7.8
179	10.22	0.016	0.92	4.2
201	13.26	0.009	1.17	7.7

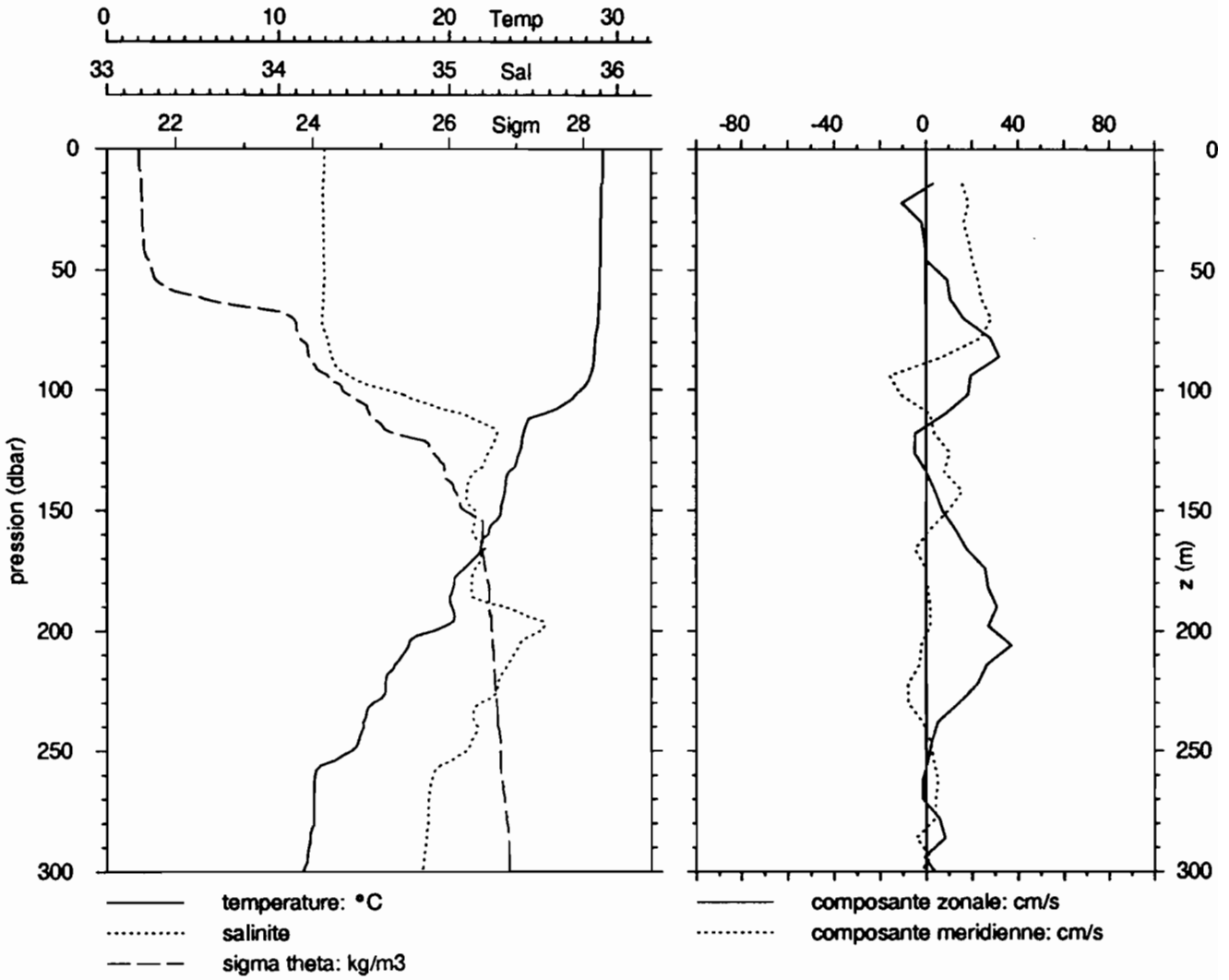
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.35	34.30	0.050	0.012	20.00
20	29.04	34.26	0.053	0.023	30.25
39	28.97	34.26	0.062	0.020	24.77
60	28.86	34.22	0.095	0.055	36.65
81	27.87	34.16	0.200	0.156	43.86
89	27.25	33.99	0.381	0.310	44.87
100	25.16	34.75	0.352	0.351	49.97
109	24.38	35.12	0.137	0.189	58.07
121	23.85	34.91	0.110	0.173	61.06
141	22.36	34.87	0.043	0.075	63.34
160	20.13	34.93	0.033	0.069	68.04
179	18.95	35.49	0.014	0.037	71.91
201	16.07	35.22	0.010	0.017	62.46

# EQUALIS -station 30

14/11/92, 16h 5 TU

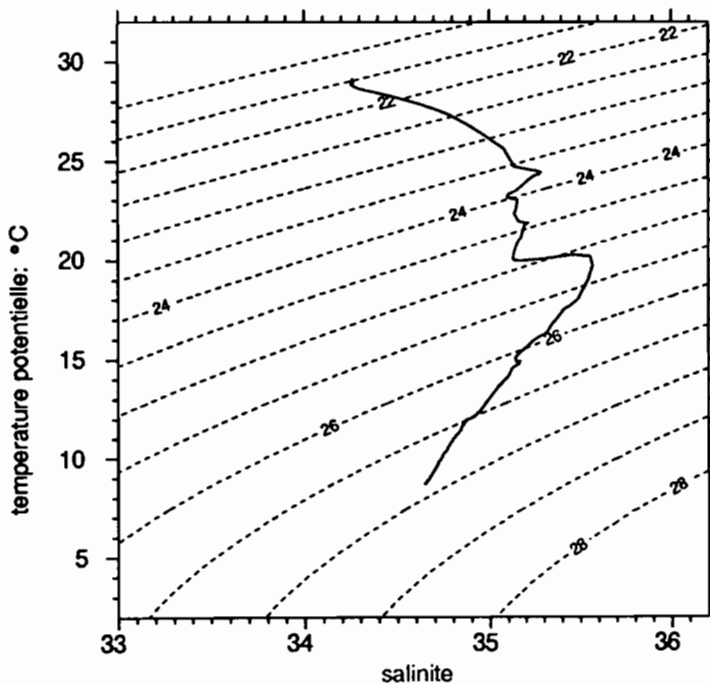
1°30 S 156°15 E

15/11/92, 2h 5 locale



	P	T	S
debut	6.0	29.143	34.265
fin	502.0	8.745	34.648

	Z	U	V
debut	14.0	3.1	15.8
fin	326.0	3.5	-6.1



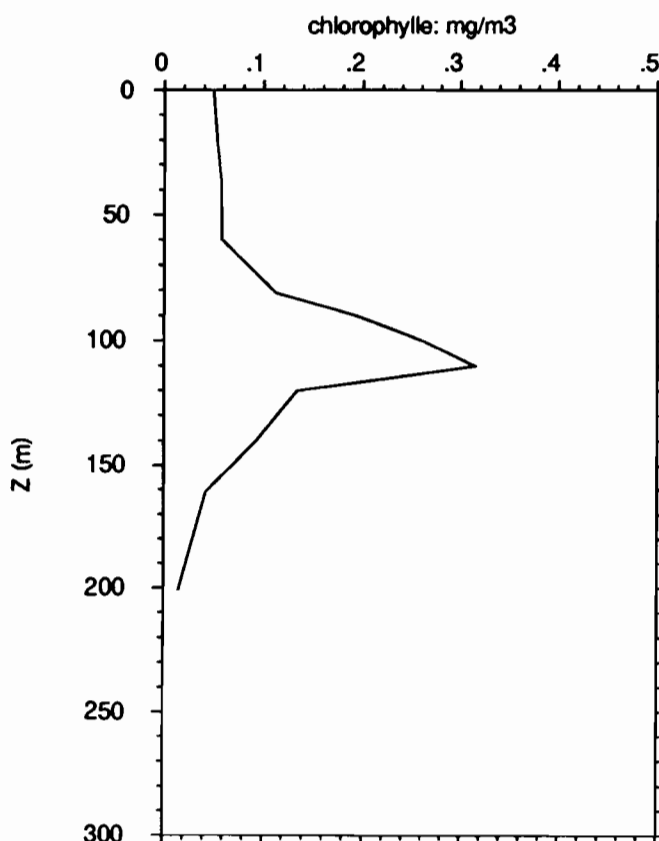
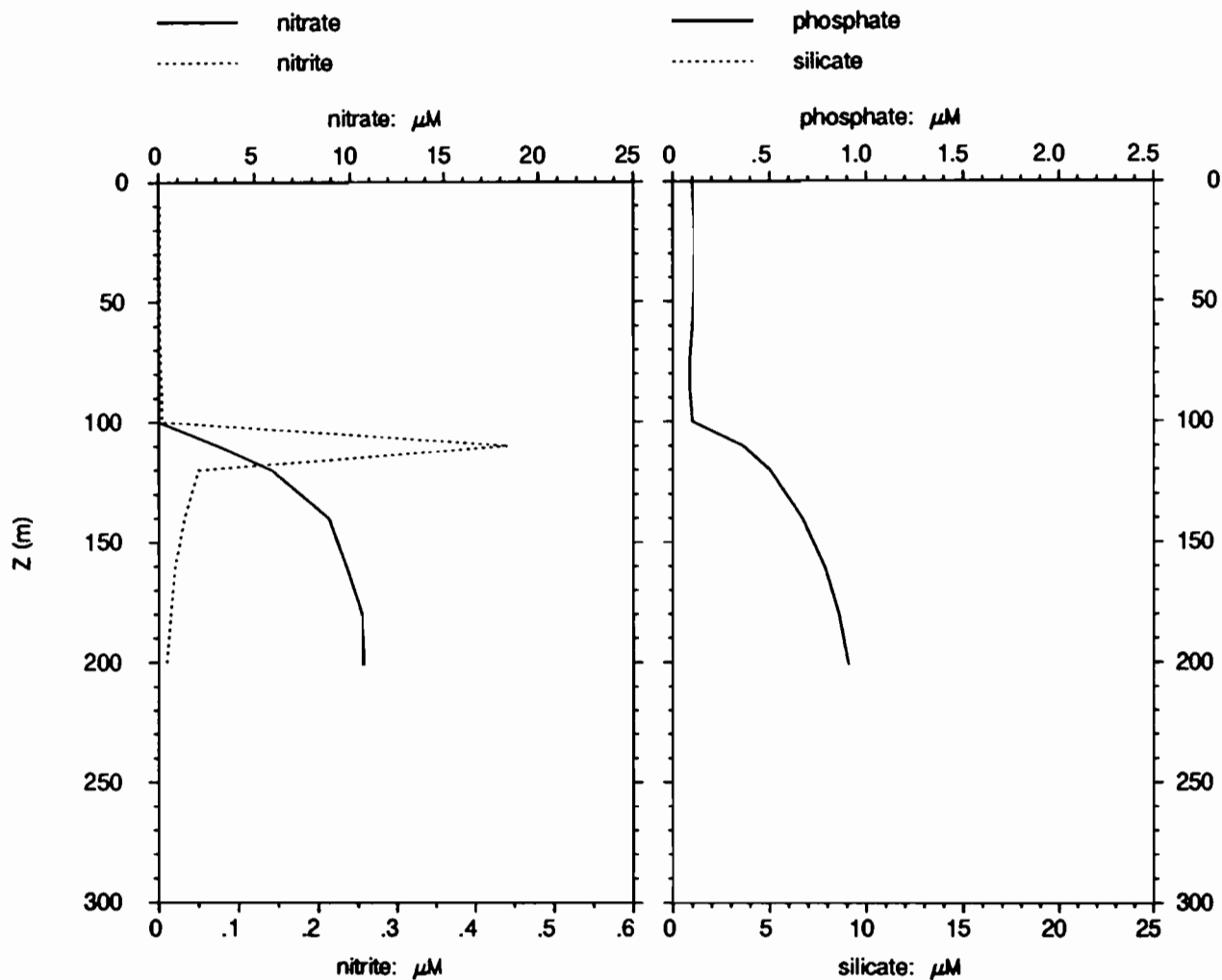
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.146	34.264		
20.0	29.041	34.256	-7.0	17.8
30.0	29.025	34.260	-1.9	16.5
40.0	29.010	34.262	-0.4	19.1
50.0	28.996	34.265	4.8	21.4
75.0	28.799	34.265	23.6	25.6
100.0	27.861	34.632	18.6	-12.1
125.0	24.244	35.244	-4.9	9.5
150.0	23.087	35.155	7.2	9.7
200.0	19.043	35.544	29.7	0.9
250.0	14.249	35.107	1.8	2.8
300.0	11.396	34.835	3.7	-2.2
400.0	10.196	34.743		
500.0	8.748	34.648		

# EQUALIS - station 30

1°30 S 156°15 E

14/11/92, 16h 5 TU

15/11/92, 2h 5 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.001	0.10	
20	0.003	0.002	0.11	
40	0.003	0.002	0.11	
60	0.002	0.002	0.10	
81	0.002	0.003	0.08	
90	0.001	0.004	0.09	
100	0.001	0.004	0.10	
110	3.09	0.442	0.36	
120	5.89	0.050	0.50	
140	8.88	0.032	0.67	
161	9.84	0.020	0.79	
180	10.63	0.015	0.86	
201	10.68	0.010	0.91	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.25	34.30	0.049	0.048	49.74
20	29.04	34.25	0.053	0.032	37.23
40	29.01	34.24	0.058	0.037	38.53
60	28.95	34.16	0.058	0.048	44.99
81	28.66	34.23	0.112	0.093	45.46
90	28.52	34.12	0.193	0.131	40.49
100	27.60	33.89	0.261	0.217	45.38
110	25.04	34.77	0.315	0.348	52.46
120	24.35	34.98	0.134	0.175	56.62
140	23.37	34.82	0.093	0.139	59.83
161	22.37	34.11	0.042	0.093	68.96
180	20.29	34.77	0.029	0.047	62.12
201	17.92	35.42	0.015	0.031	67.96

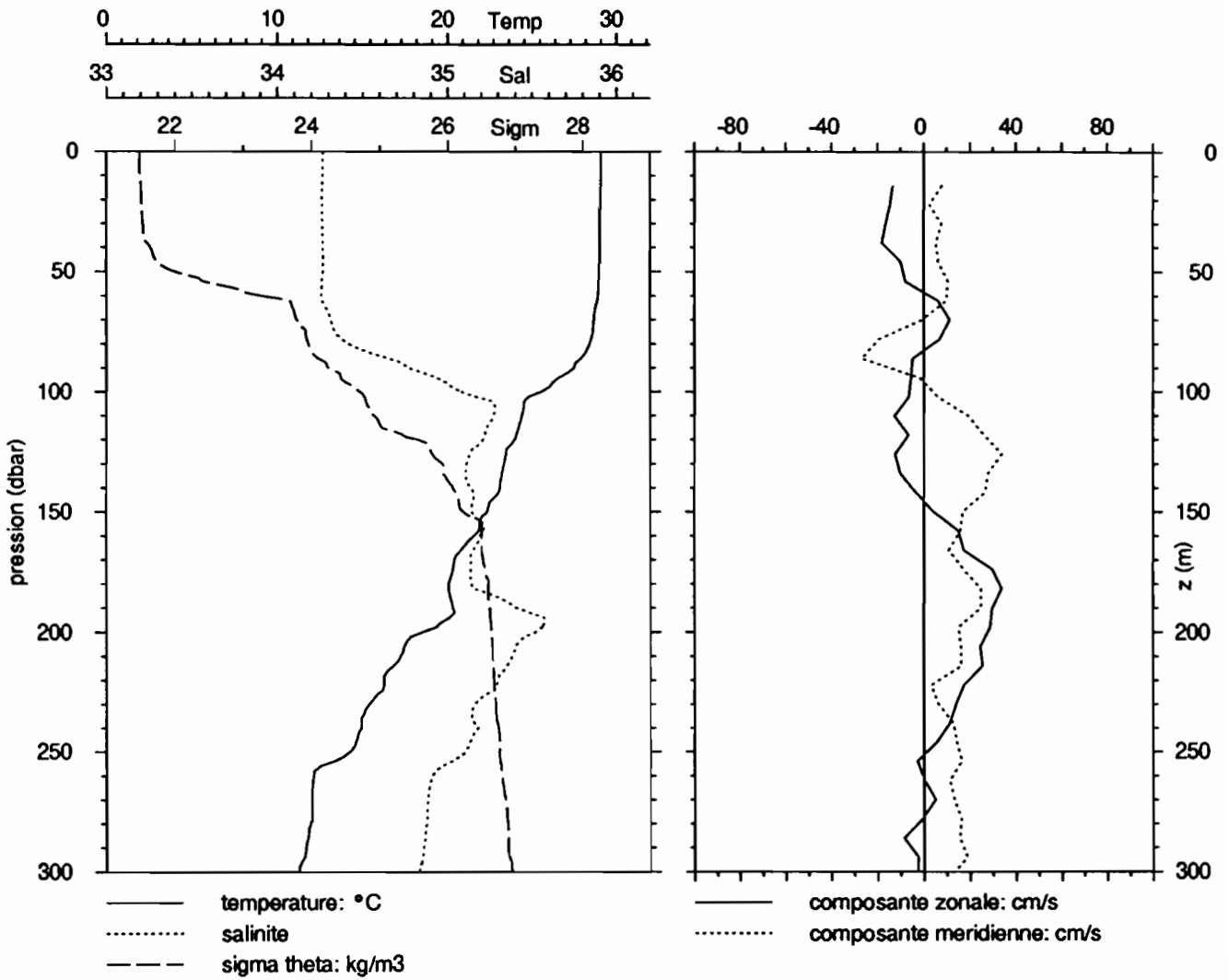


# EQUALIS -station 31

1°30 S 156°15 E

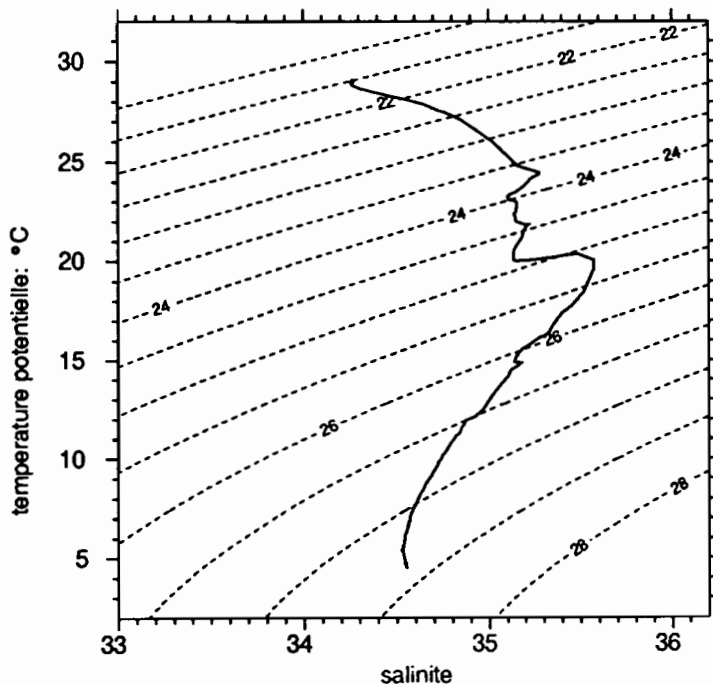
14/11/92, 19h 5 TU

15/11/92, 5h 5 locale



	P	T	S
debut	4.0	29.094	34.265
fin	998.0	4.534	34.552

	Z	U	V
debut	14.0	-13.4	8.0
fin	358.0	-19.1	10.0



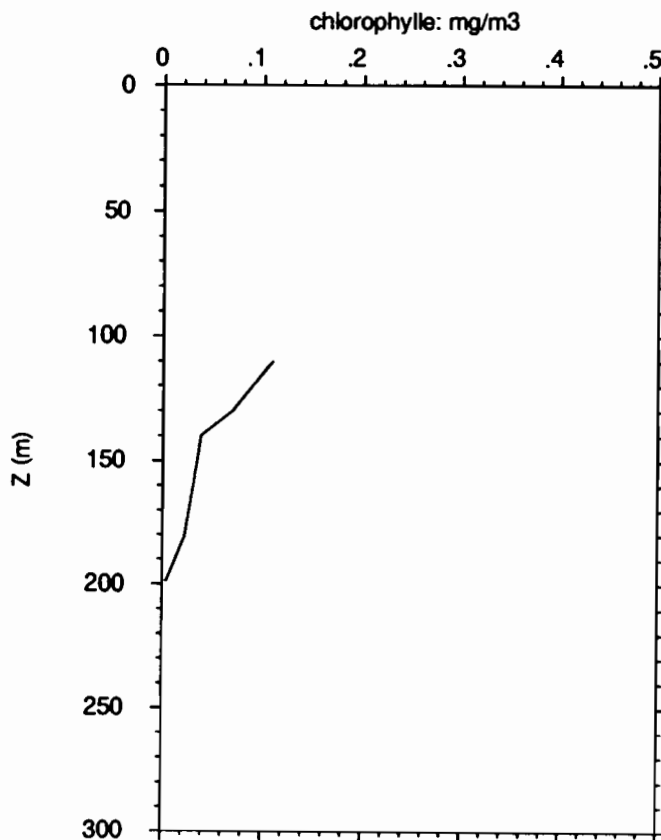
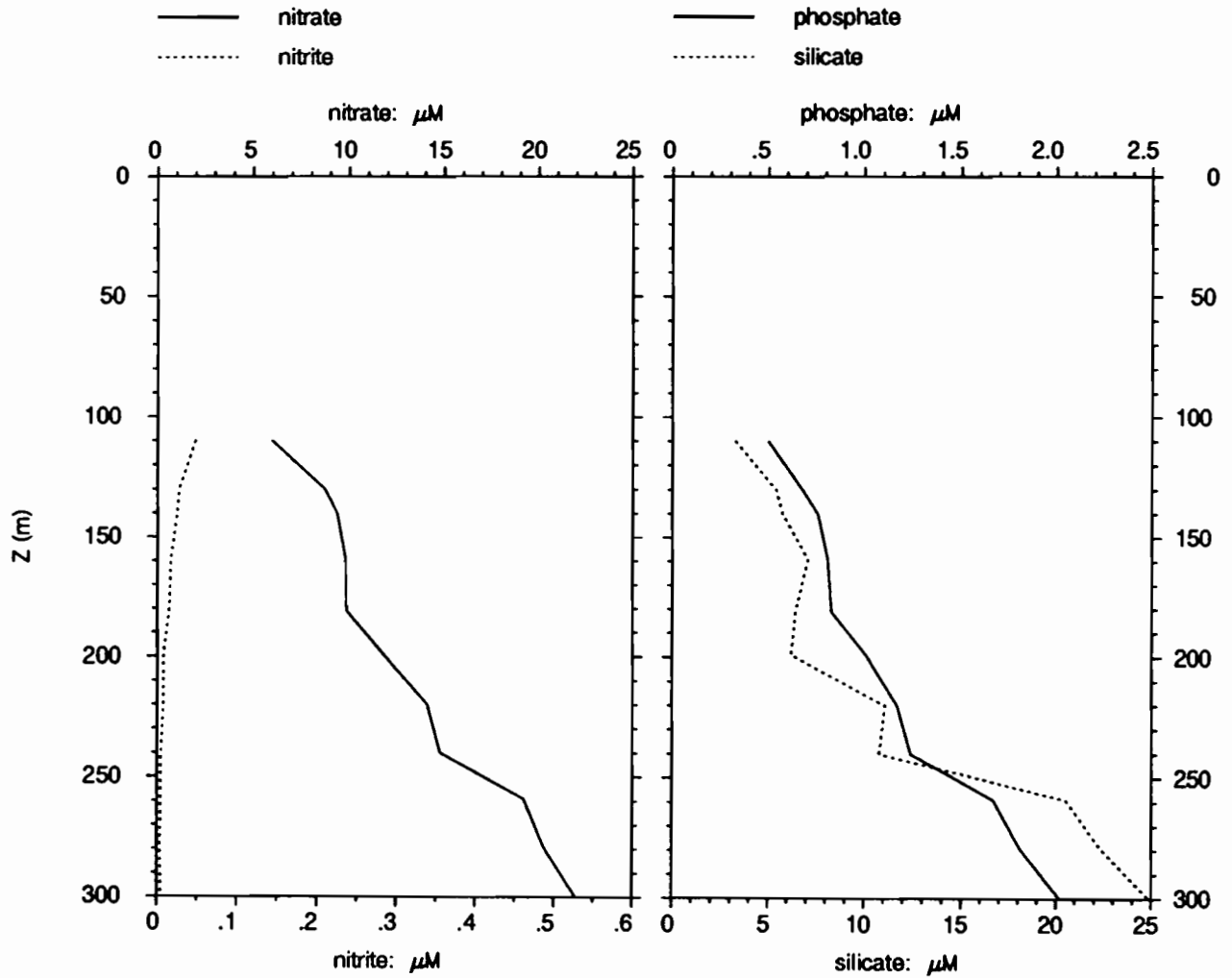
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.087	34.265		
20.0	29.036	34.261	-14.3	3.9
30.0	29.021	34.263	-16.6	7.8
40.0	29.001	34.265	-16.1	5.7
50.0	28.972	34.267	-8.9	8.4
75.0	28.586	34.337	8.4	-12.6
100.0	25.519	35.079	-6.2	4.2
125.0	23.450	35.138	-11.7	32.8
150.0	22.348	35.144	4.3	16.9
200.0	18.503	35.519	27.7	15.2
250.0	14.233	35.108	1.4	15.4
300.0	11.261	34.828	-2.8	13.4
400.0	10.026	34.737		
500.0	8.282	34.626		
600.0	6.561	34.555		
700.0	6.058	34.542		
800.0	5.613	34.533		
900.0	4.820	34.546		

# EQUALIS - station 31

1°30 S 156°15 E

14/11/92, 19h 5 TU

15/11/92, 5h 5 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
110	5.95	0.048	0.50	3.3
130	8.72	0.027	0.68	5.4
140	9.36	0.025	0.76	5.8
159	9.81	0.017	0.81	7.1
181	9.86	0.015	0.83	6.4
199	11.79	0.008	1.01	6.2
220	14.12	0.008	1.17	11.1
240	14.80	0.005	1.24	10.8
259	19.22	0.005	1.67	20.5
279	20.29	0.004	1.81	22.3
300	22.00	0.005	2.02	24.9
1000	27.88	0.006	2.99	78.4

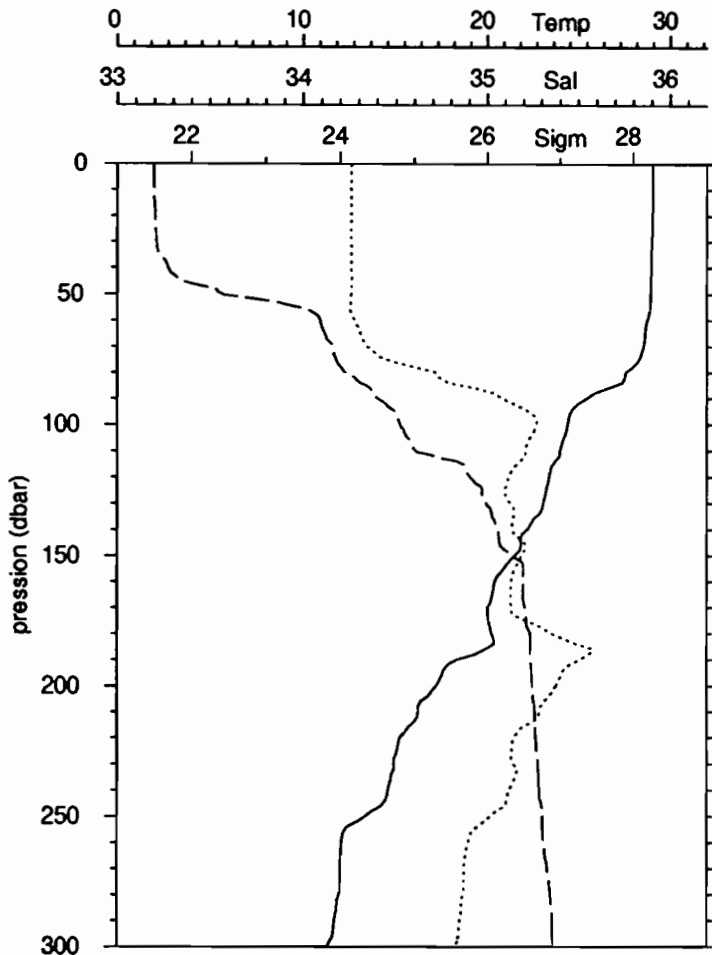
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
110	24.19	34.45	0.110	0.212	65.79
130	23.27	34.91	0.070	0.152	68.41
140	22.70	34.36	0.038	0.097	72.01
159	20.96	34.13	0.031	0.076	71.18
181	20.17	33.82	0.022	0.043	66.81
199	17.30	35.03	0.004	0.034	89.53
220	15.53	34.66			
240	14.53	33.80			
259	12.04	34.80			
279	11.81	34.77			
300	11.25	34.81			
1000	4.53	34.55			

# EQUALIS -station 32

1°30 S 156°15 E

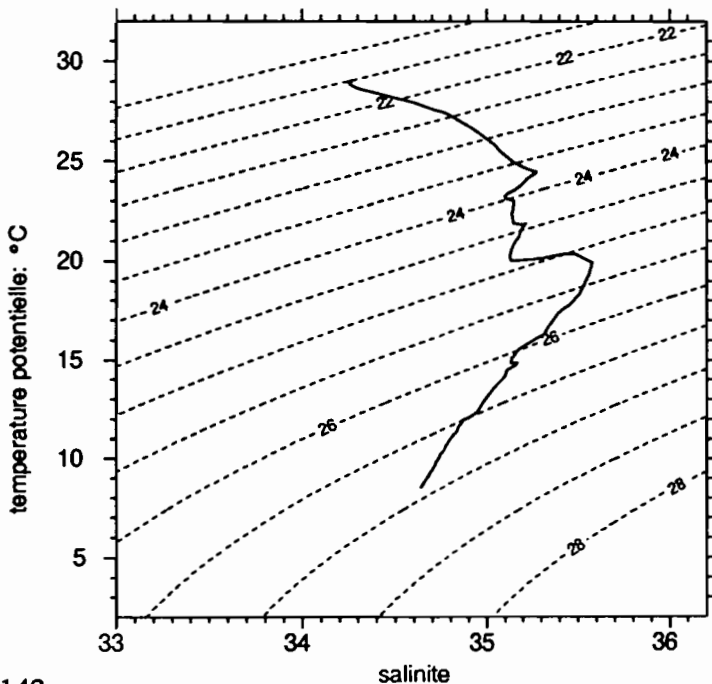
14/11/92, 20h20 TU

15/11/92, 6h20 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.061	34.260
fin	500.0	8.571	34.638



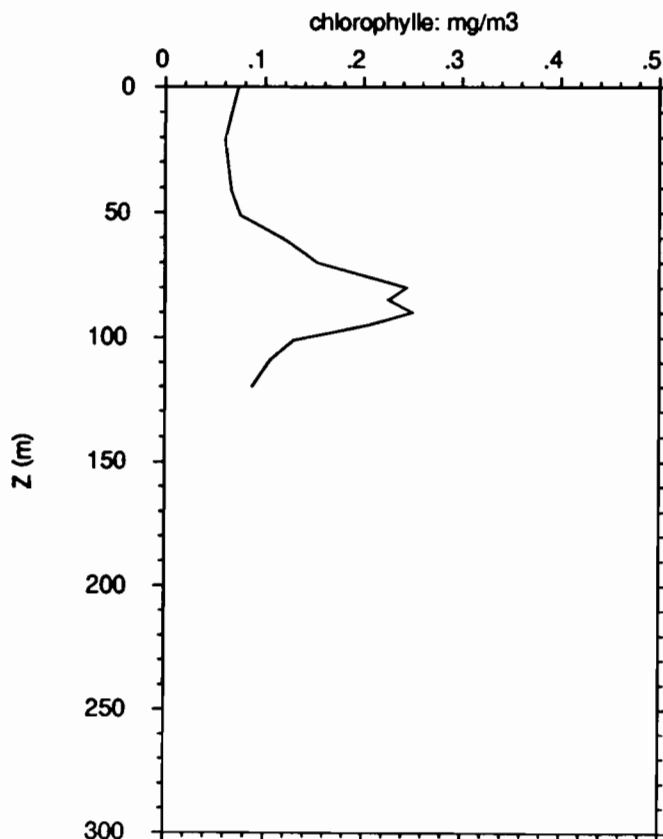
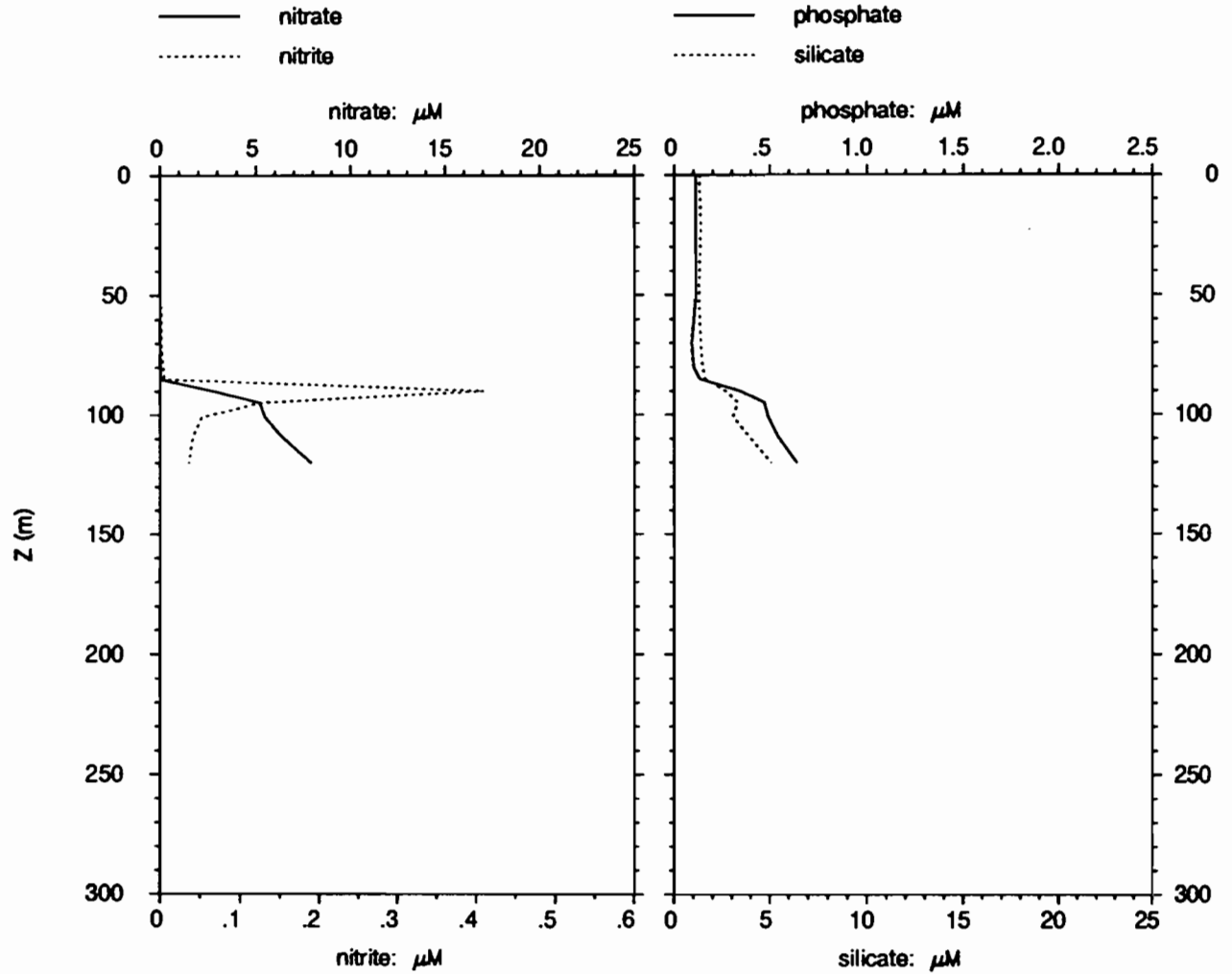
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.062	34.260		
20.0	29.065	34.261		
30.0	29.013	34.258		
40.0	28.994	34.260		
50.0	28.950	34.259		
75.0	28.322	34.448		
100.0	24.415	35.272		
125.0	23.260	35.102		
150.0	21.523	35.185		
200.0	17.193	35.379		
250.0	13.340	35.018		
300.0	11.315	34.826		
400.0	10.253	34.743		
500.0	8.571	34.638		

# EQUALIS - station 32

1° 30 S 156° 15 E

14/11/92, 20h20 TU

15/11/92, 6h20 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.000	0.11	1.3
21	0.000	0.000	0.11	1.4
41	0.001	0.001	0.11	1.3
51	0.001	0.001	0.11	1.3
61	0.000	0.002	0.10	1.3
70	0.000	0.002	0.09	1.4
80	0.000	0.004	0.10	1.5
85	0.001	0.005	0.13	1.6
90	2.76	0.409	0.34	2.7
95	5.19	0.126	0.47	3.3
101	5.46	0.052	0.49	3.1
109	6.34	0.041	0.54	3.9
120	7.90	0.036	0.64	5.1

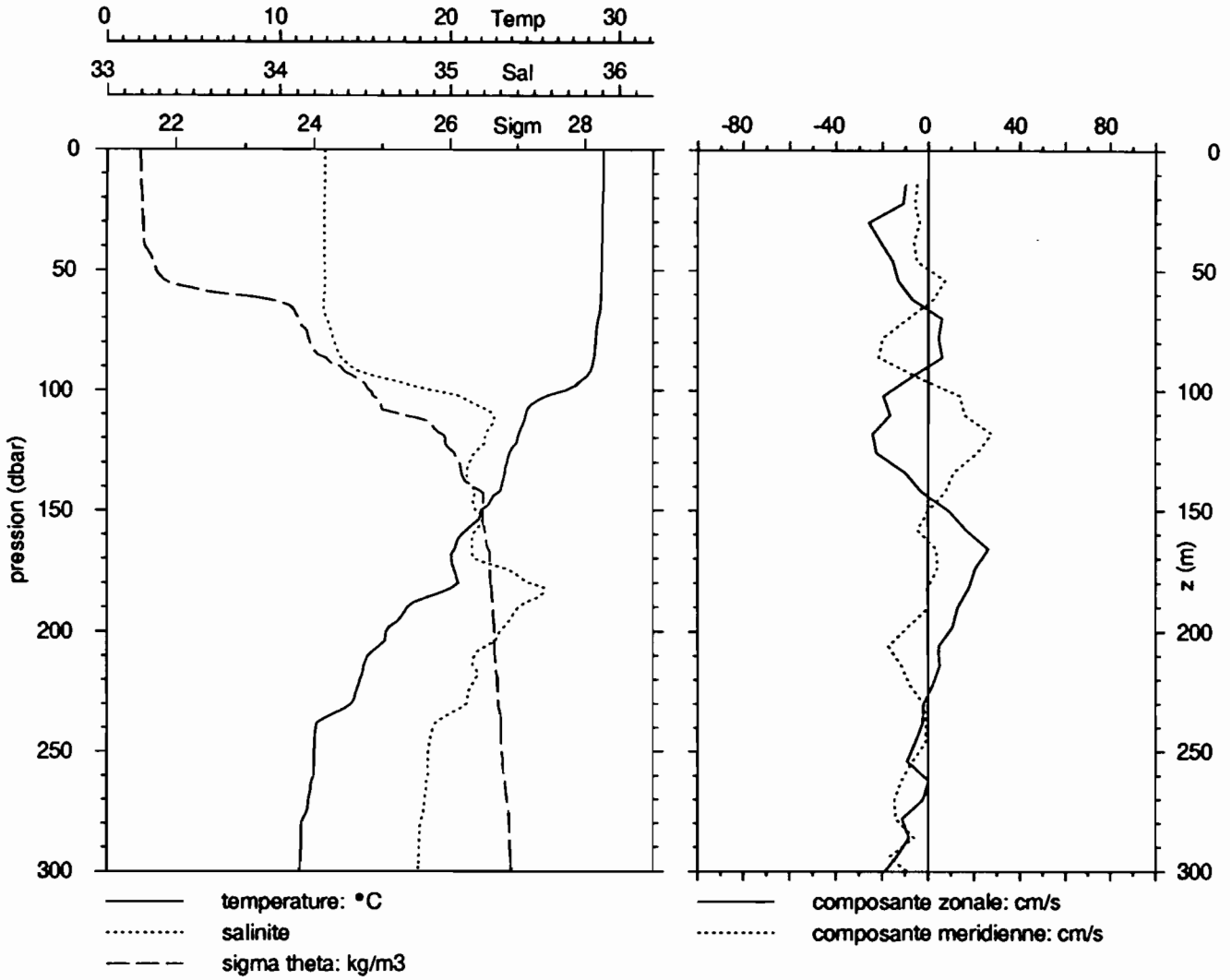
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.17	34.29	0.073	0.041	35.71
21	29.04	34.23	0.060	0.046	43.42
41	28.99	34.22	0.066	0.049	42.38
51	28.93	34.19	0.075	0.057	43.06
61	28.69	34.22	0.121	0.073	37.67
70	28.56	34.00	0.153	0.131	46.03
80	27.61	34.48	0.244	0.239	49.55
85	27.34	34.13	0.225	0.273	54.81
90	25.36	34.69	0.250	0.301	54.64
95	24.69	35.02	0.205	0.253	55.22
101	24.44	34.98	0.129	0.198	60.59
109	24.13	34.90	0.105	0.182	63.29
120	23.53	35.13	0.087	0.140	61.58

# EQUALIS -station 33

1°30 S 156°15 E

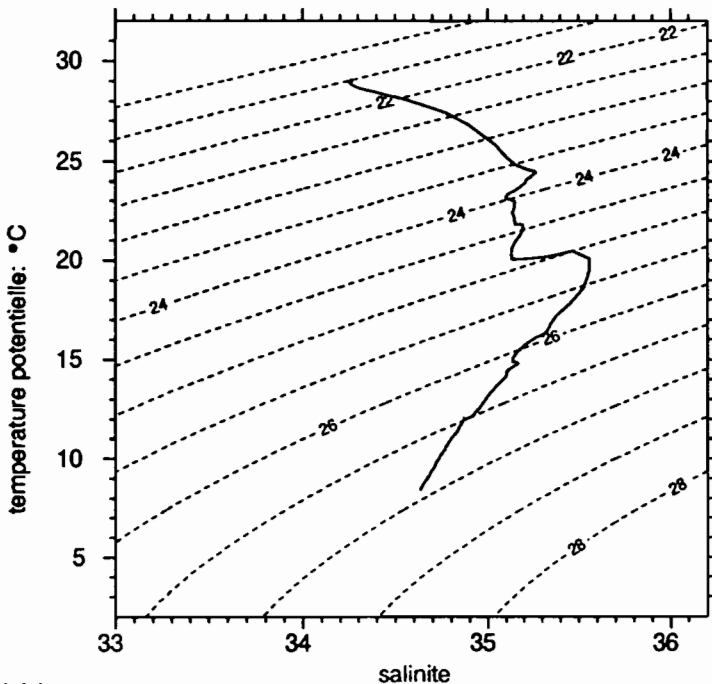
14/11/92, 22h 9 TU

15/11/92, 8h 9 locale



	P	T	S
debut	6.0	29.077	34.264
fin	502.0	8.472	34.634

	Z	U	V
debut	14.0	-9.8	-4.8
fin	406.0	-7.8	-7.2



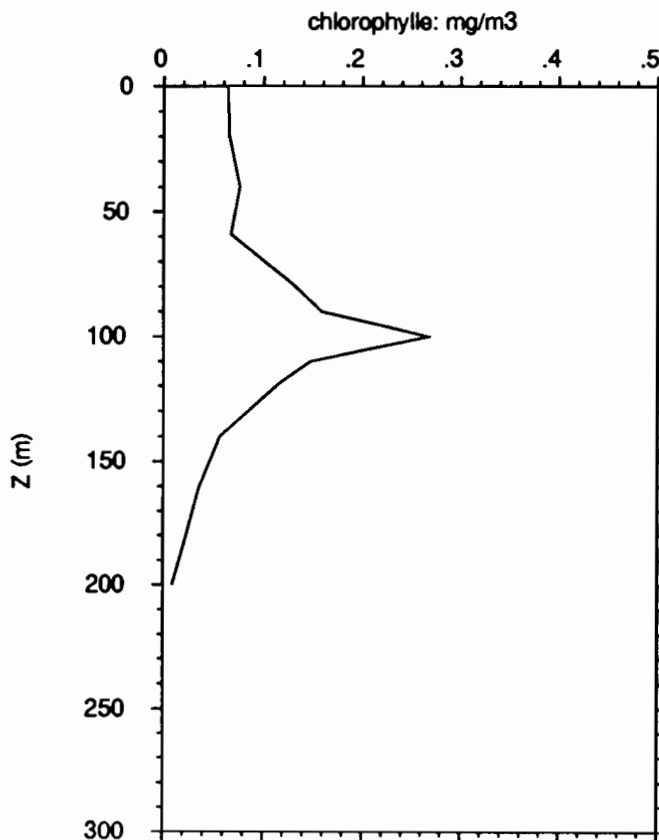
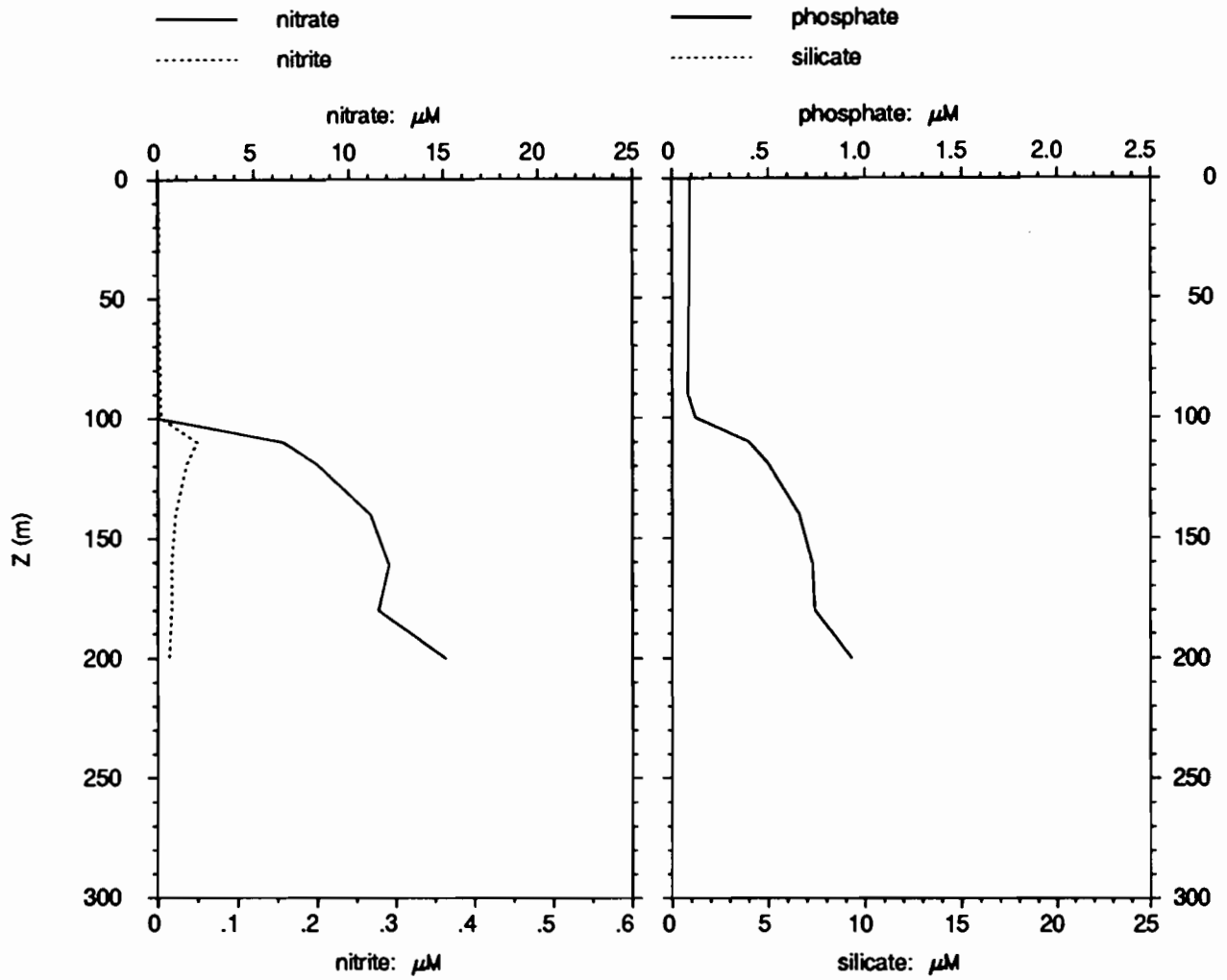
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.069	34.263		
20.0	29.057	34.262	-10.6	-5.6
30.0	29.022	34.260	-25.9	-3.7
40.0	29.009	34.261	-19.4	-5.9
50.0	28.985	34.262	-14.2	1.2
75.0	28.676	34.298	5.2	-15.6
100.0	26.844	34.894	-16.4	9.2
125.0	23.634	35.162	-22.7	22.1
150.0	21.835	35.151	9.1	0.0
200.0	16.235	35.296	9.2	-10.8
250.0	12.016	34.870	-7.3	-3.9
300.0	11.135	34.808	-19.0	-9.0
400.0	9.867	34.720	3.1	-10.7
500.0	8.542	34.637		

# EQUALIS - station 33

1°30 S 156°15 E

14/11/92, 22h 9 TU

15/11/92, 8h 9 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.002	0.09	
19	0.003	0.002	0.10	
40	0.000	0.001	0.09	
59	0.002	0.002	0.09	
80	0.001	0.003	0.08	
90	0.000	0.003	0.08	
100	0.003	0.004	0.12	
110	6.52	0.049	0.40	
119	8.27	0.036	0.50	
140	11.13	0.022	0.66	
161	12.13	0.017	0.73	
180	11.55	0.017	0.74	
200	15.11	0.014	0.93	

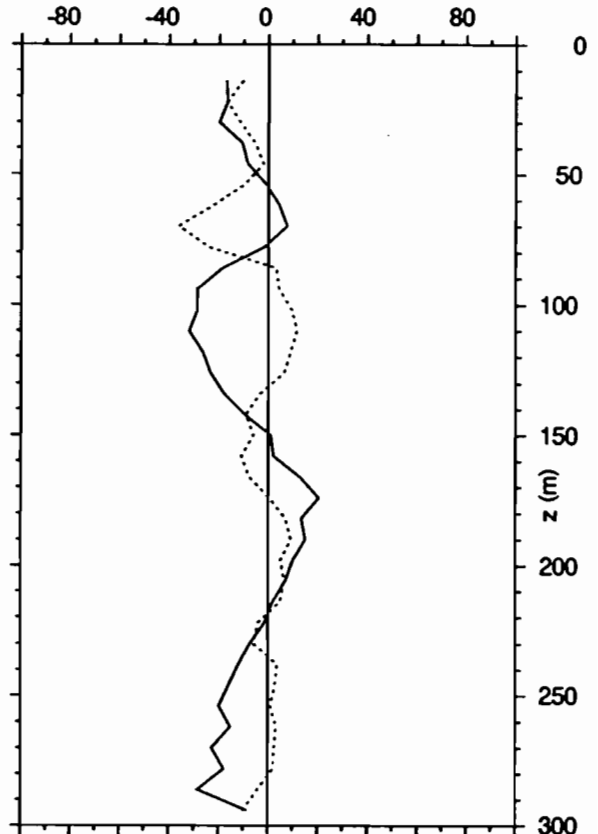
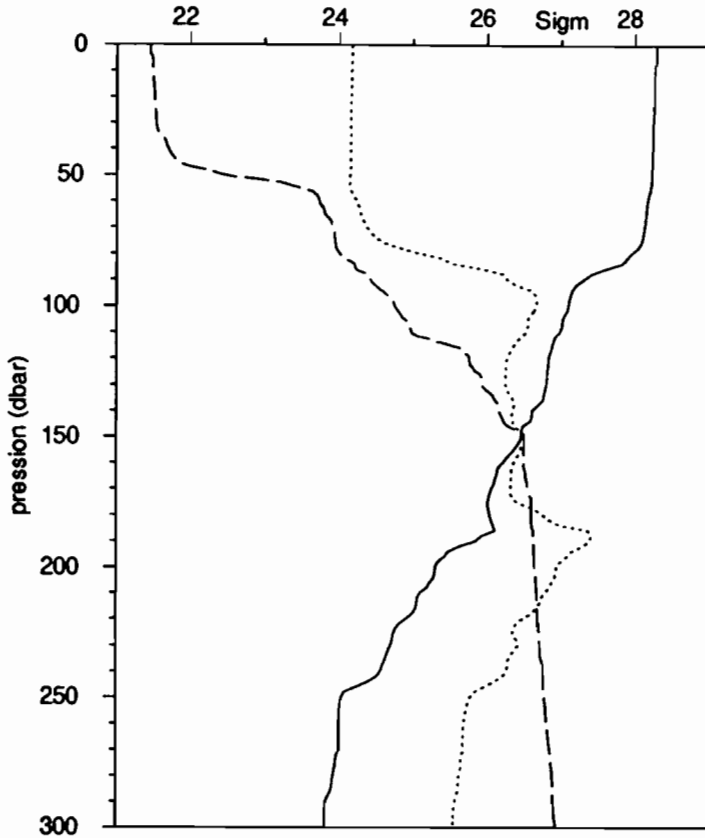
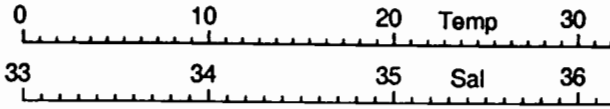
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.22	34.29	0.064	0.029	31.53
19	29.06	34.24	0.065	0.050	43.77
40	29.01	34.25	0.076	0.038	33.57
59	28.96	34.19	0.067	0.050	42.58
80	28.63	34.19	0.132	0.139	51.35
90	28.30	33.85	0.158	0.155	49.51
100	26.03	34.11	0.267	0.259	49.24
110	24.50	34.96	0.147	0.218	59.73
119	23.95	34.54	0.115	0.176	60.56
140	22.44	34.54	0.056	0.091	61.64
161	20.32	34.92	0.035	0.077	68.62
180	19.79	33.34	0.023	0.031	56.99
200	16.20	35.25	0.009	0.016	64.08

# EQUALIS -station 34

1°30 S 156°15 E

15/11/92, 1h 1 TU

15/11/92, 11h 1 locale

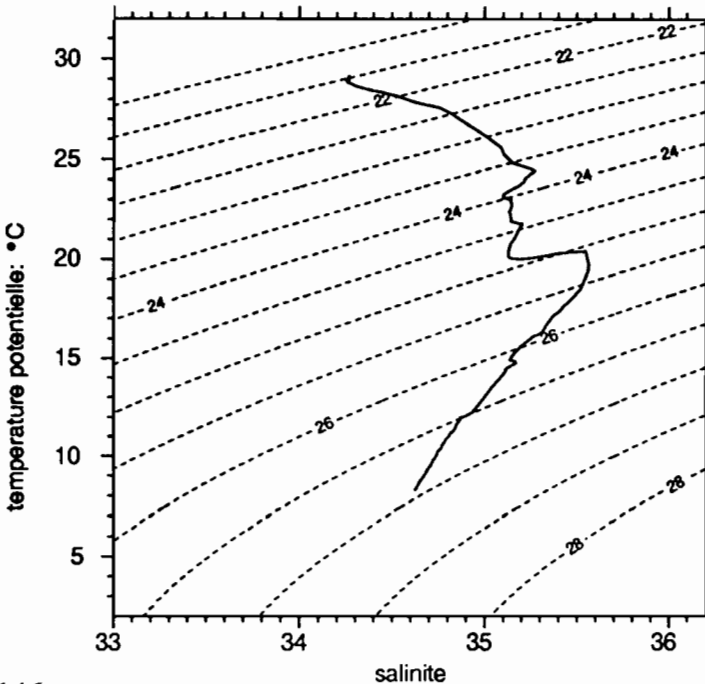


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.181	34.267
fin	504.0	8.317	34.625

	Z	U	V
debut	14.0	-17.0	-10.2
fin	318.0	-14.4	-0.9



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.097	34.265		
20.0	29.066	34.263	-16.7	-15.1
30.0	29.020	34.261	-20.0	-11.5
40.0	28.987	34.261	-10.0	-4.5
50.0	28.936	34.258	-4.5	-5.7
75.0	28.410	34.419	1.8	-28.5
100.0	24.395	35.263	-28.7	8.5
125.0	23.269	35.103	-23.8	6.9
150.0	21.853	35.203	1.2	-5.8
200.0	17.209	35.376	9.4	5.5
250.0	12.148	34.911	-17.8	2.0
300.0	11.249	34.820	-10.0	-7.7
400.0	9.878	34.726		
500.0	8.382	34.629		

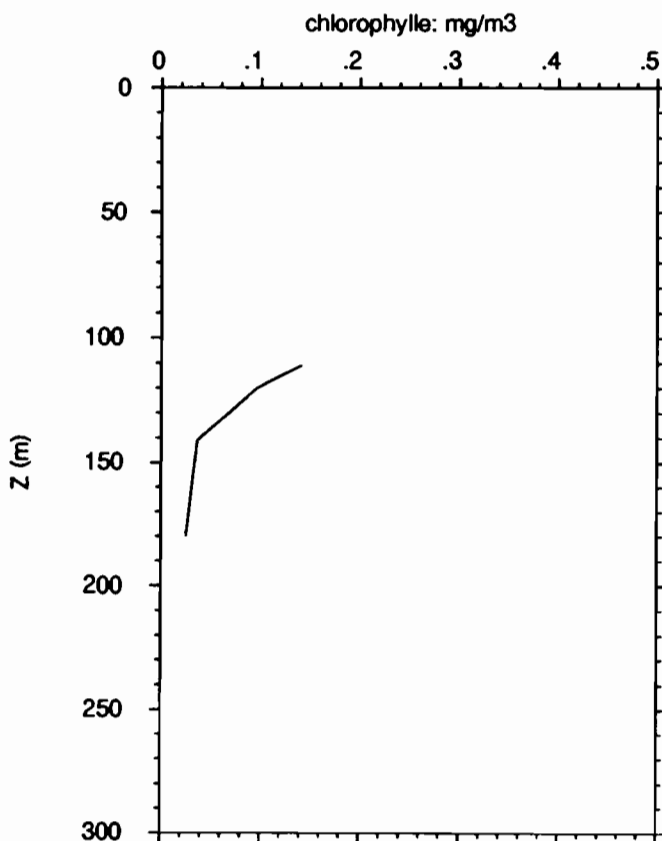
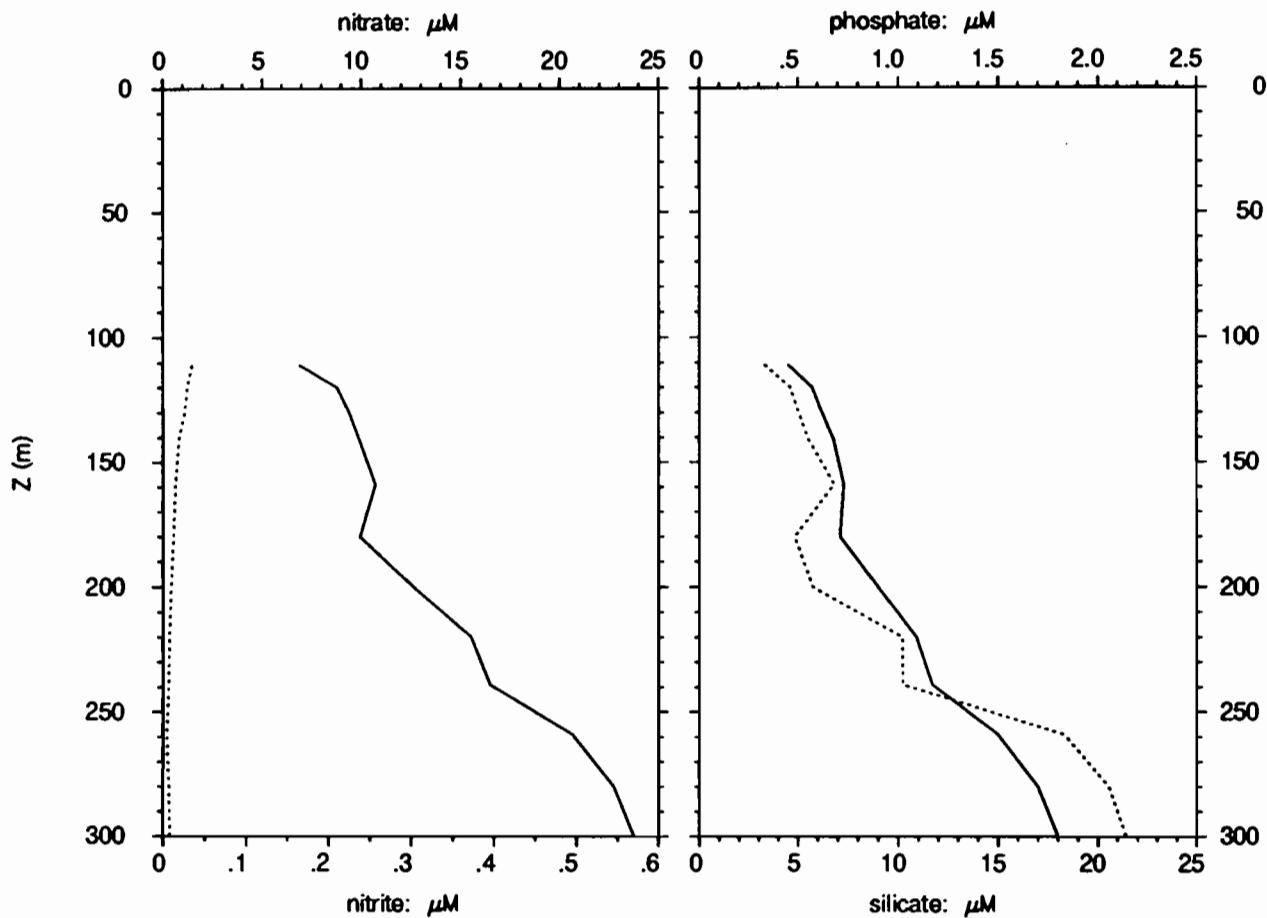
# EQUALIS - station 34

1°30 S 156°15 E

15/11/92, 1h 1 TU

15/11/92, 11h 1 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
111	6.88	0.035	0.45	3.3
120	8.77	0.029	0.57	4.6
130	9.39	0.026	0.62	5.0
141	9.91	0.019	0.68	5.5
159	10.70	0.015	0.73	6.8
180	9.94	0.013	0.71	4.8
200	12.62	0.010	0.90	5.8
220	15.52	0.008	1.09	10.2
239	16.47	0.007	1.17	10.2
259	20.64	0.005	1.50	18.3
280	22.72	0.007	1.70	20.5
300	23.74	0.008	1.80	21.4

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
111	24.03	34.62	0.141	0.217	60.59
120	23.35	34.95	0.096	0.166	63.30
130	23.17	34.70	0.068	0.133	66.01
141	22.44	35.11	0.036	0.112	75.45
159	20.52	34.86	0.031	0.078	71.60
180	20.37	34.19	0.025	0.053	67.67
200	17.00	34.63			
220	15.03	34.67			
239	13.86	34.05			
259	12.02	34.65			
280	11.65	34.50			
300	11.24	34.81			

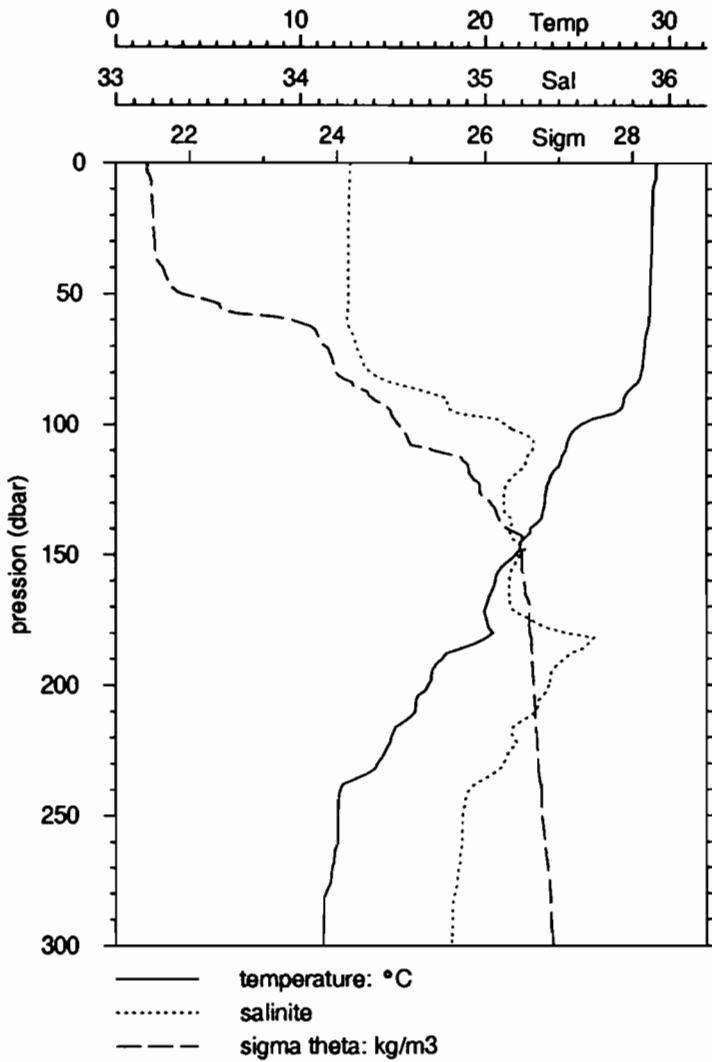


# EQUALIS -station 35

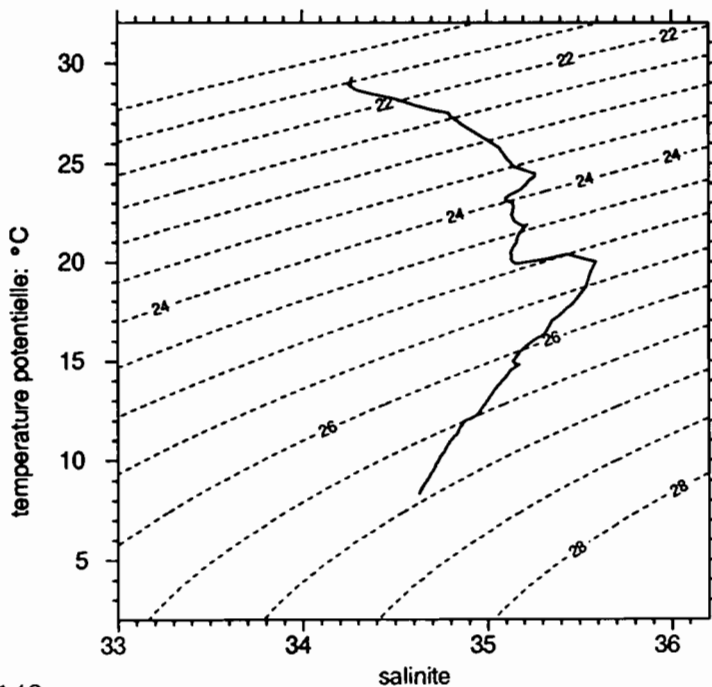
15/11/92, 1h58 TU

1°30 S 156°15 E

15/11/92, 11h58 locale



	P	T	S
debut	6.0	29.280	34.269
fin	504.0	8.373	34.627



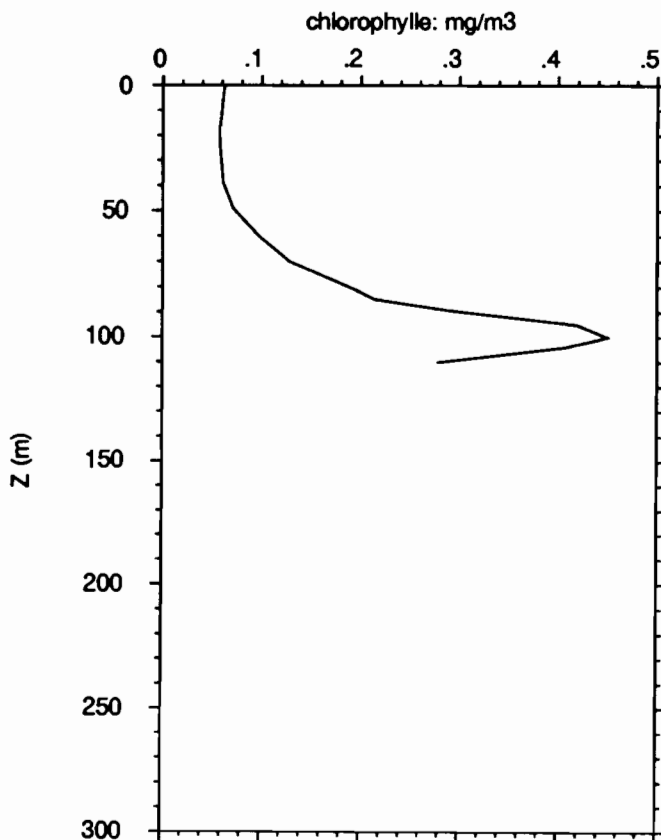
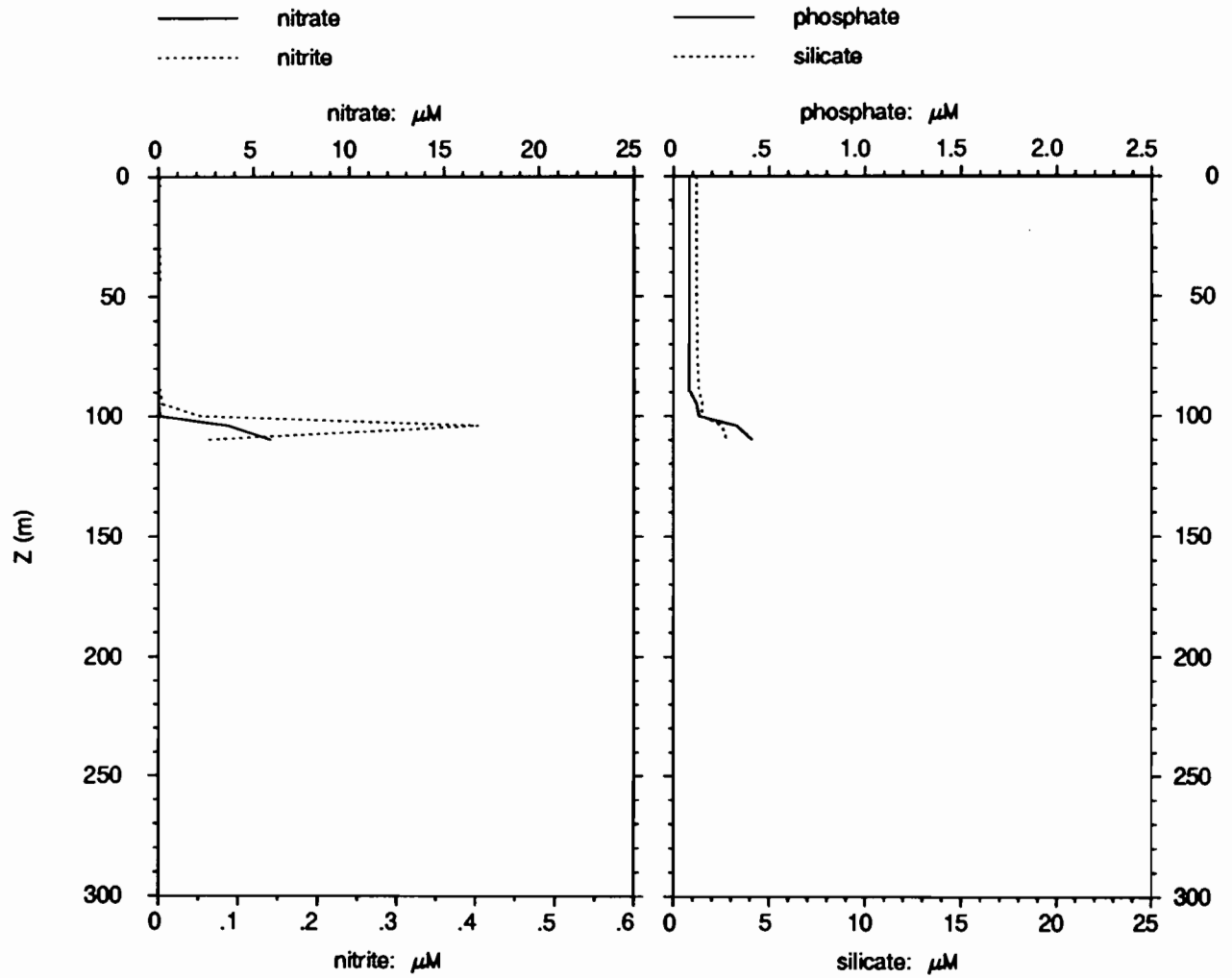
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.118	34.265		
20.0	29.083	34.264		
30.0	29.030	34.260		
40.0	29.007	34.260		
50.0	28.968	34.259		
75.0	28.583	34.330		
100.0	25.224	35.109		
125.0	23.317	35.106		
150.0	21.646	35.192		
200.0	16.899	35.344		
250.0	12.019	34.877		
300.0	11.191	34.814		
400.0	9.911	34.725		
500.0	8.492	34.635		

# EQUALIS - station 35

1°30 S 156°15 E

15/11/92, 1h58 TU

15/11/92, 11h58 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.002	0.08	1.2
20	0.009	0.001	0.09	1.2
39	0.005	0.002	0.09	1.2
49	0.006	0.001	0.09	1.2
60	0.007	0.001	0.09	1.2
70	0.005	0.001	0.08	1.2
81	0.006	0.001	0.08	1.3
85	0.008	0.000	0.08	1.3
89	0.006	0.002	0.08	1.3
95	0.005	0.005	0.12	1.5
100	0.088	0.052	0.13	1.5
104	3.64	0.404	0.33	2.5
110	5.88	0.060	0.41	2.8

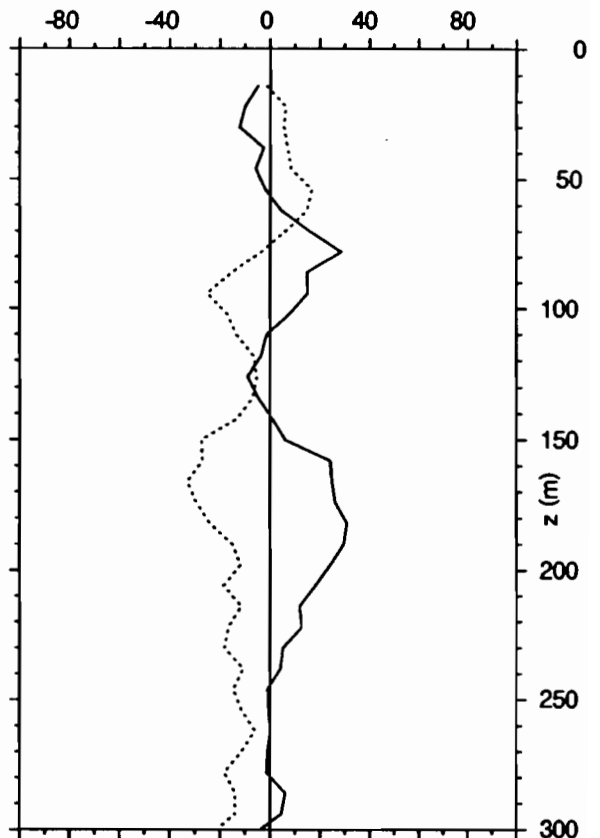
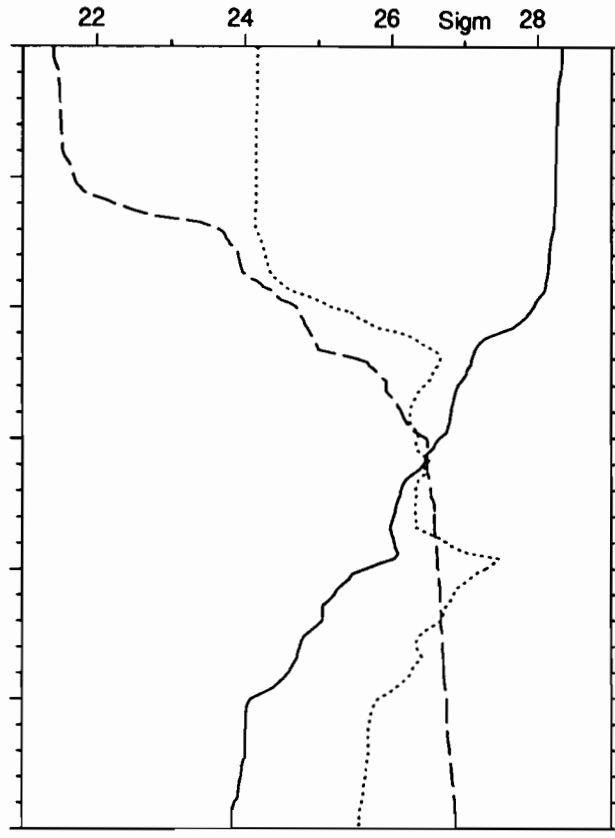
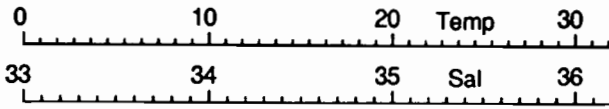
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.46	34.30	0.062	0.041	40.20
20	29.09	34.23	0.057	0.041	41.69
39	29.01	34.23	0.061	0.041	40.33
49	28.96	34.23	0.071	0.054	43.08
60	28.91	34.16	0.097	0.071	42.28
70	28.68	34.26	0.128	0.090	41.28
81	28.53	34.32	0.194	0.143	42.53
85	28.44	34.24	0.214	0.169	44.19
89	27.93	34.47	0.284	0.210	42.47
95	27.47	34.54	0.419	0.376	47.31
100	26.75	34.41	0.450	0.460	50.58
104	25.26	34.85	0.407	0.447	52.34
110	24.54	35.23	0.278	0.273	49.58

# EQUALIS -station 37

15/11/92, 4h 4 TU

1°30 S 156°15 E

15/11/92, 14h 4 locale

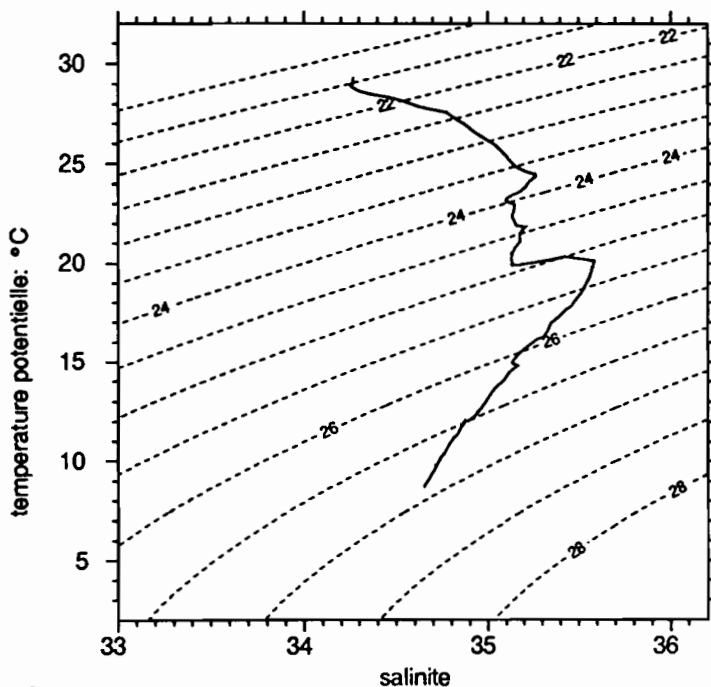


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.306	34.268
fin	502.0	8.743	34.649

	Z	U	V
debut	14.0	-4.8	-1.4
fin	302.0	-6.9	-23.8



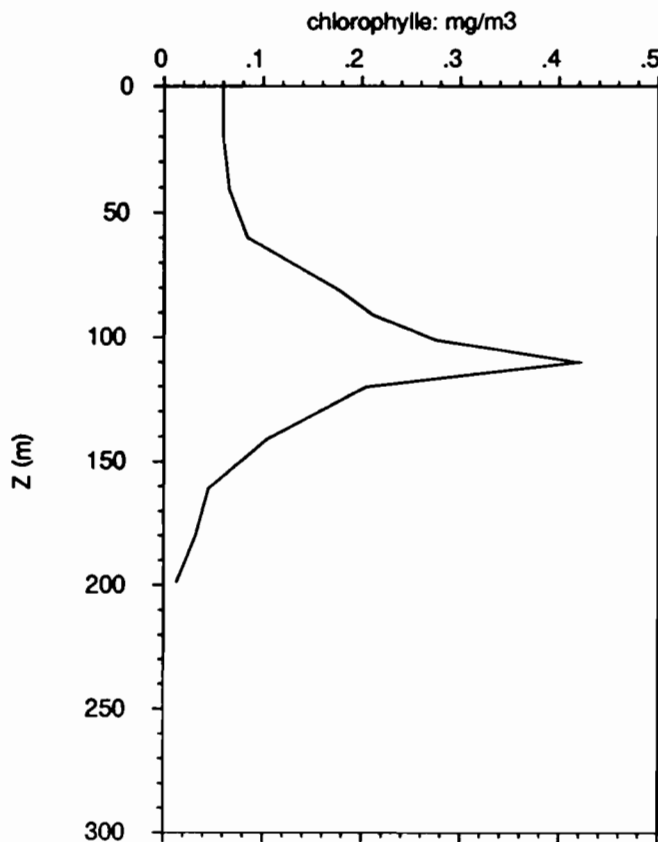
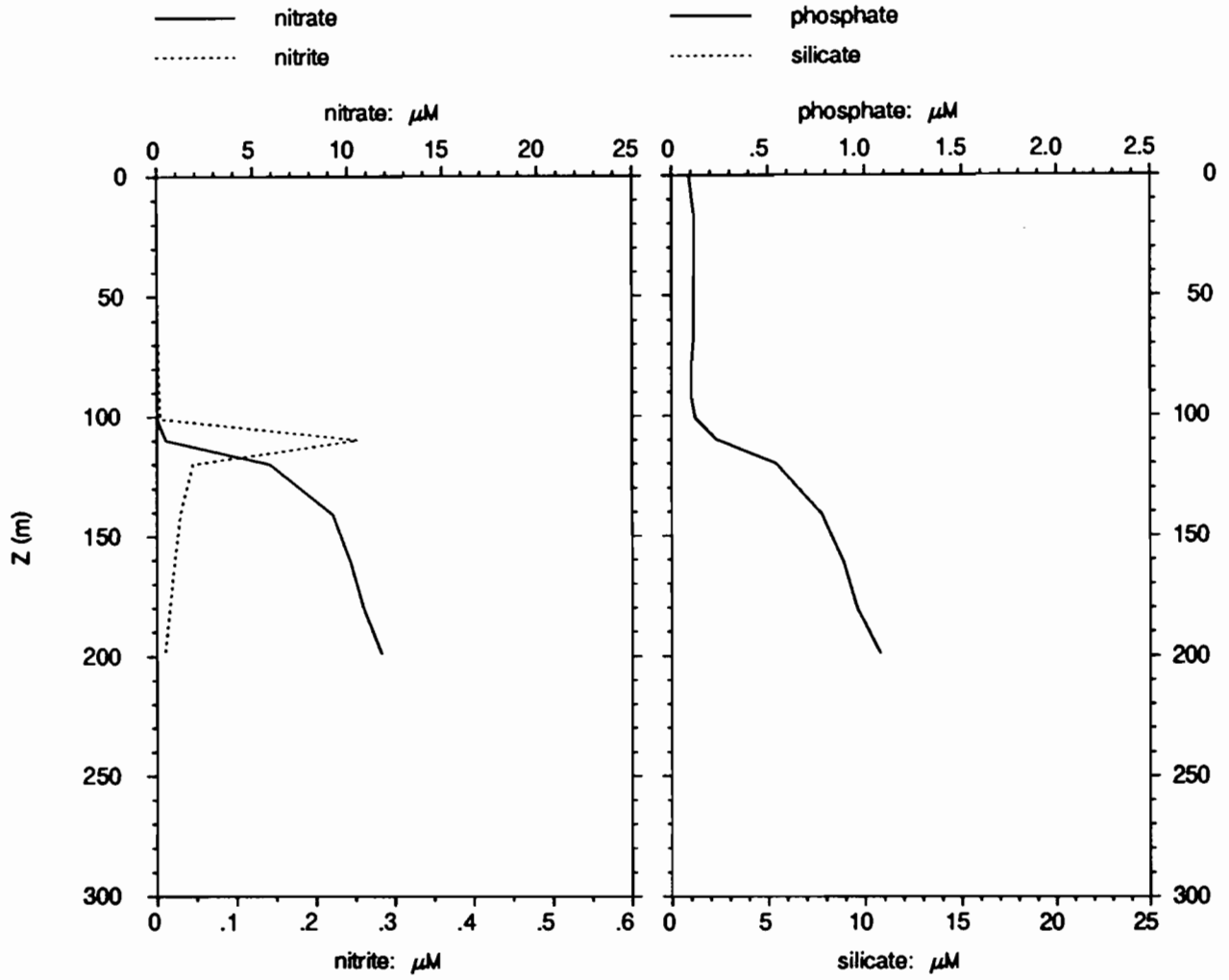
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.254	34.268		
20.0	29.097	34.266	-8.7	4.5
30.0	29.033	34.261	-12.1	5.6
40.0	29.022	34.262	-3.3	7.3
50.0	28.995	34.260	-3.8	12.6
75.0	28.711	34.290	23.9	0.2
100.0	27.793	34.669	9.6	-19.2
125.0	24.130	35.228	-8.3	-5.5
150.0	22.641	35.144	6.2	-27.3
200.0	18.566	35.517	22.6	-13.5
250.0	12.314	34.929	-0.8	-13.0
300.0	11.270	34.819	-4.0	-21.3
400.0	10.243	34.743		
500.0	8.743	34.649		

# EQUALIS - station 37

1°30 S 156°15 E

15/11/92, 4h 4 TU

15/11/92, 14h 4 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.007	0.000	0.09	
20	0.007	0.000	0.12	
41	0.005	0.001	0.12	
60	0.006	0.001	0.12	
81	0.005	0.002	0.10	
91	0.004	0.003	0.10	
101	0.005	0.004	0.12	
110	0.466	0.253	0.23	
120	5.91	0.045	0.54	
141	9.23	0.029	0.78	
161	10.16	0.022	0.89	
180	10.84	0.016	0.96	
199	11.81	0.010	1.08	

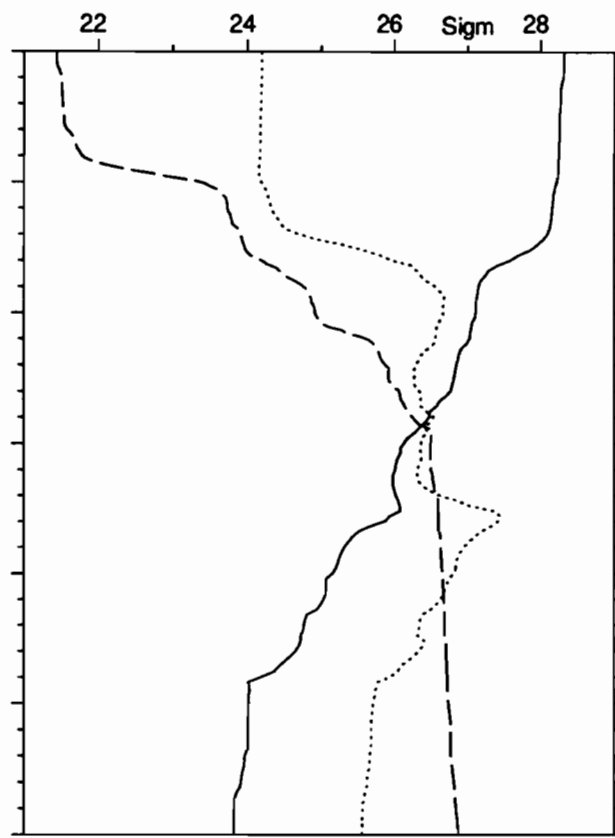
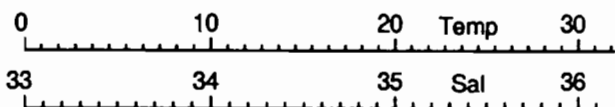
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.48	34.30	0.060	0.020	25.22
20	29.10	34.26	0.060	0.026	30.35
41	29.02	34.25	0.066	0.023	26.10
60	28.94	34.25	0.084	0.045	34.97
81	28.62	34.24	0.177	0.117	39.70
91	28.45	34.21	0.211	0.147	41.03
101	27.76	34.18	0.275	0.224	44.88
110	25.51	34.45	0.419	0.475	53.10
120	24.39	35.23	0.204	0.241	54.15
141	23.24	34.93	0.104	0.151	59.35
161	21.22	34.55	0.045	0.083	65.06
180	19.89	34.36	0.032	0.033	50.68
199	17.63	35.38	0.013	0.015	53.80

# EQUALIS -station 38

15/11/92, 7h 0 TU

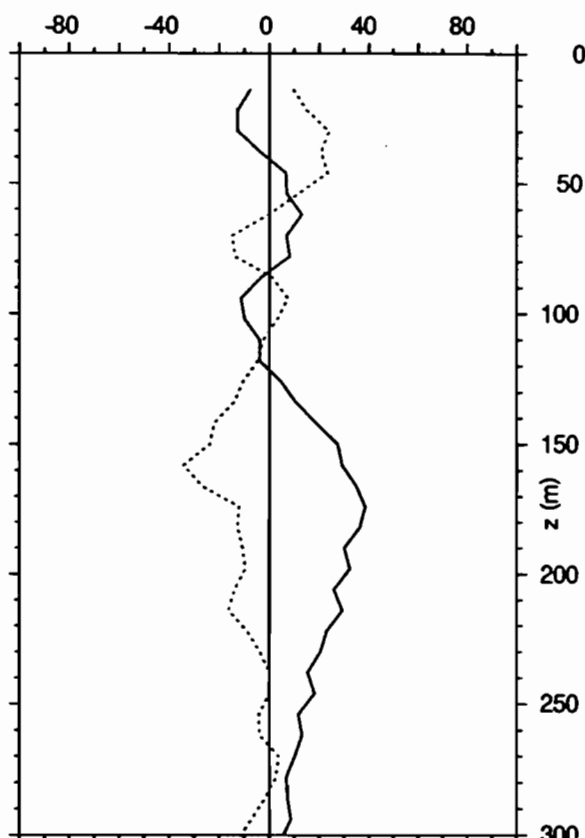
1°30 S 156°15 E

15/11/92, 17h 0 locale



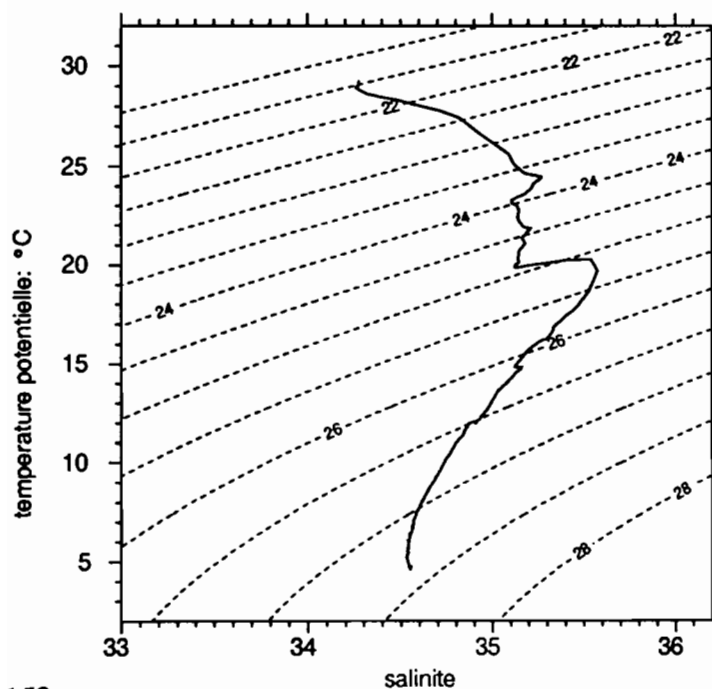
— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

	P	T	S
debut	4.0	29.255	34.275
fin	998.0	4.656	34.549



— composante zonale: cm/s  
- - - composante meridienne: cm/s

	Z	U	V
debut	14.0	-7.6	9.7
fin	358.0	10.7	-4.1



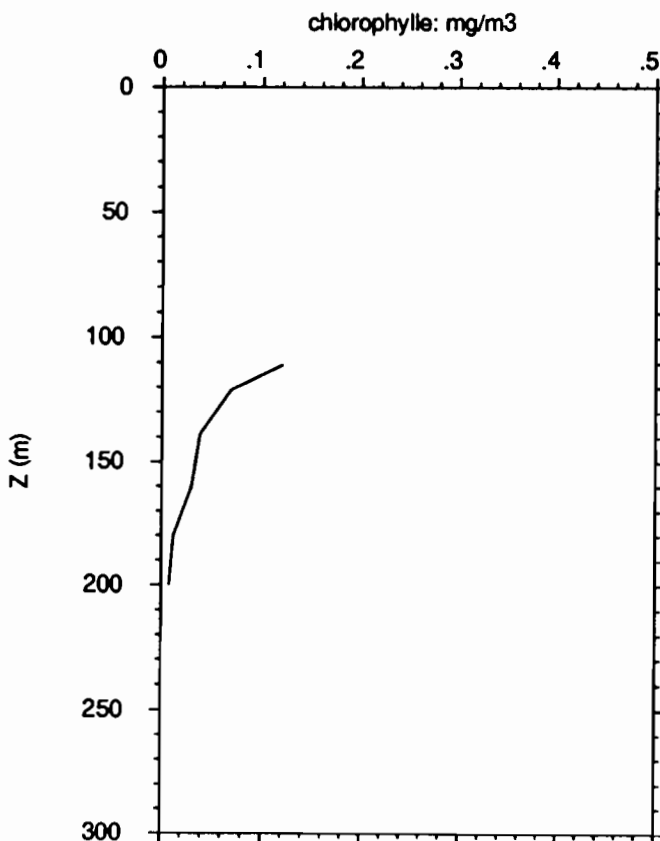
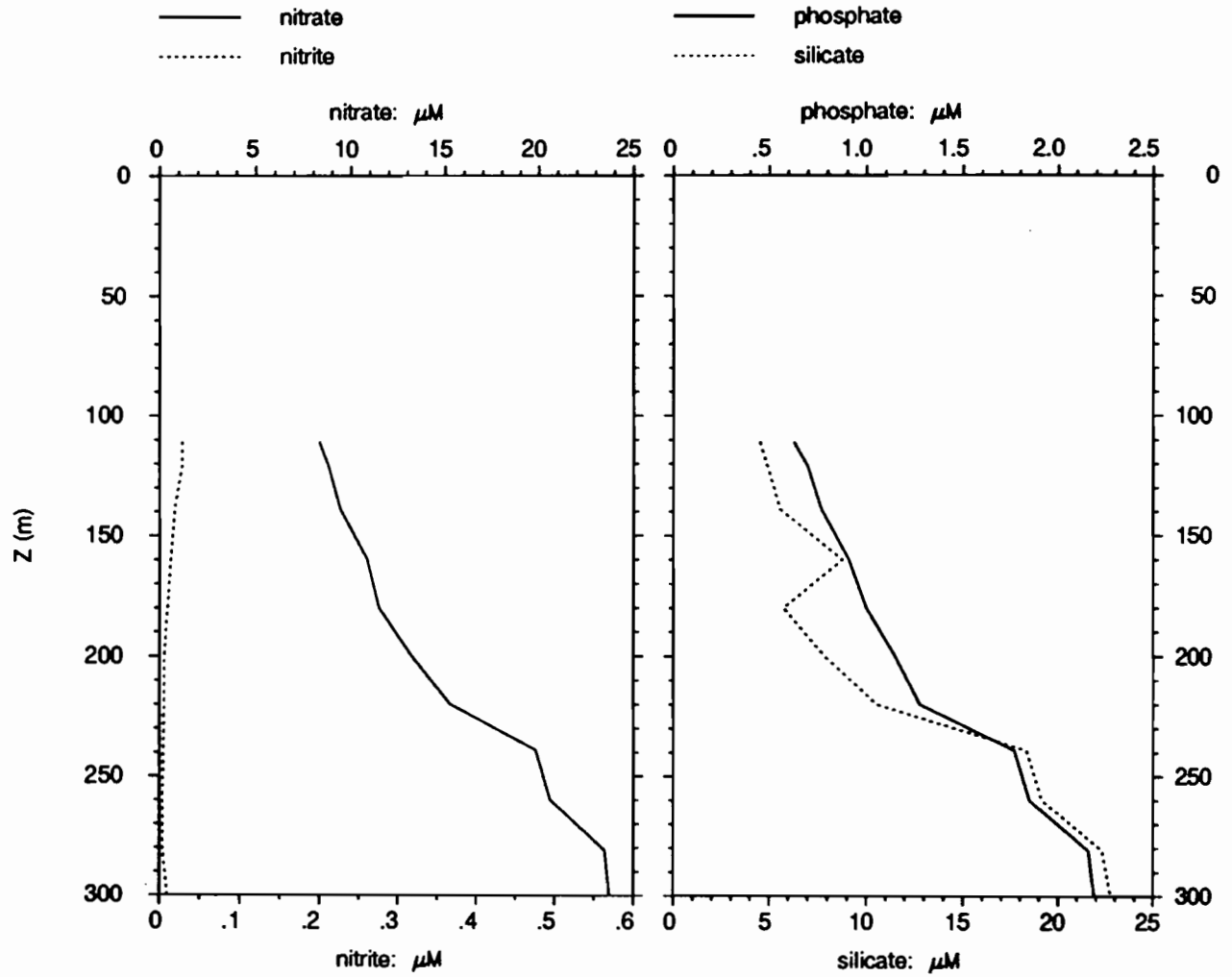
P	T	S	U	V
dbar	°C	S	cm/s	cm/s
10.0	29.218	34.275		
20.0	29.062	34.272	-11.4	13.7
30.0	29.010	34.268	-12.7	23.9
40.0	28.958	34.265	-1.0	21.4
50.0	28.848	34.271	6.9	17.5
75.0	27.611	34.769	7.7	-14.1
100.0	24.414	35.264	-10.1	4.4
125.0	23.238	35.108	3.7	-9.8
150.0	20.508	35.145	27.4	-23.8
200.0	16.603	35.325	30.7	-10.6
250.0	12.051	34.883	15.0	-2.0
300.0	11.239	34.819	5.6	-11.3
400.0	10.276	34.749		
500.0	8.969	34.667		
600.0	7.535	34.582		
700.0	6.394	34.549		
800.0	5.750	34.537		
900.0	5.375	34.528		

# EQUALIS - station 38

1°30 S 156°15 E

15/11/92, 7h 0 TU

15/11/92, 17h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
111	8.33	0.028	0.63	4.5
121	8.80	0.028	0.70	4.9
139	9.43	0.019	0.77	5.6
160	10.87	0.014	0.91	8.8
180	11.49	0.010	1.00	5.8
200	13.23	0.006	1.15	7.9
220	15.27	0.006	1.28	10.5
239	19.84	0.005	1.77	18.3
260	20.61	0.004	1.85	19.2
281	23.48	0.004	2.16	22.3
300	23.72	0.010	2.19	22.8
1001	30.20	0.012	3.12	65.9

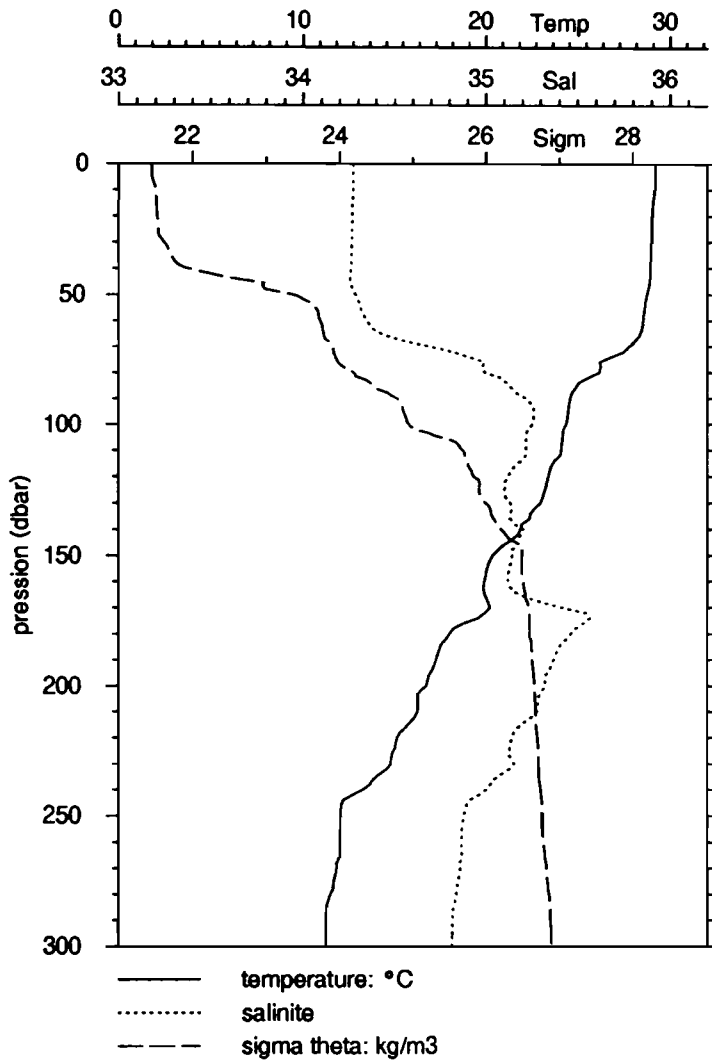
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
111	24.07	34.90	0.120	0.179	59.76
121	23.29	34.71	0.069	0.157	69.43
139	21.91	34.25	0.038	0.078	67.38
160	19.93	34.82	0.030	0.076	71.78
180	17.93	34.32	0.012	0.038	75.34
200	16.27	34.63	0.008	0.023	74.10
220	14.82	34.12			
239	12.07	34.73			
260	11.99	34.44			
281	11.28	34.81			
300	11.18	34.80			
1001	4.66	34.55			

# EQUALIS -station 39

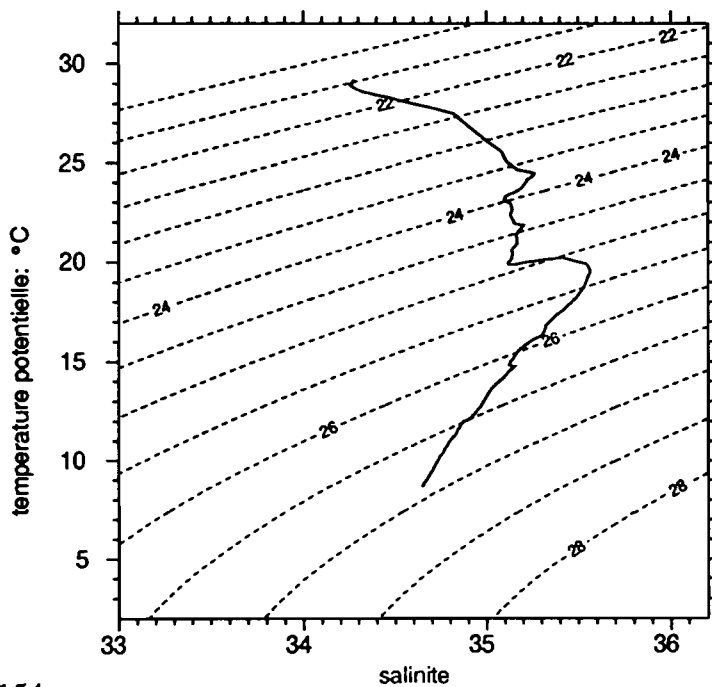
15/11/92, 8h11 TU

1°30 S 156°15 E

15/11/92, 18h11 locale



	P	T	S
debut	4.0	29.201	34.272
fin	498.0	8.721	34.646



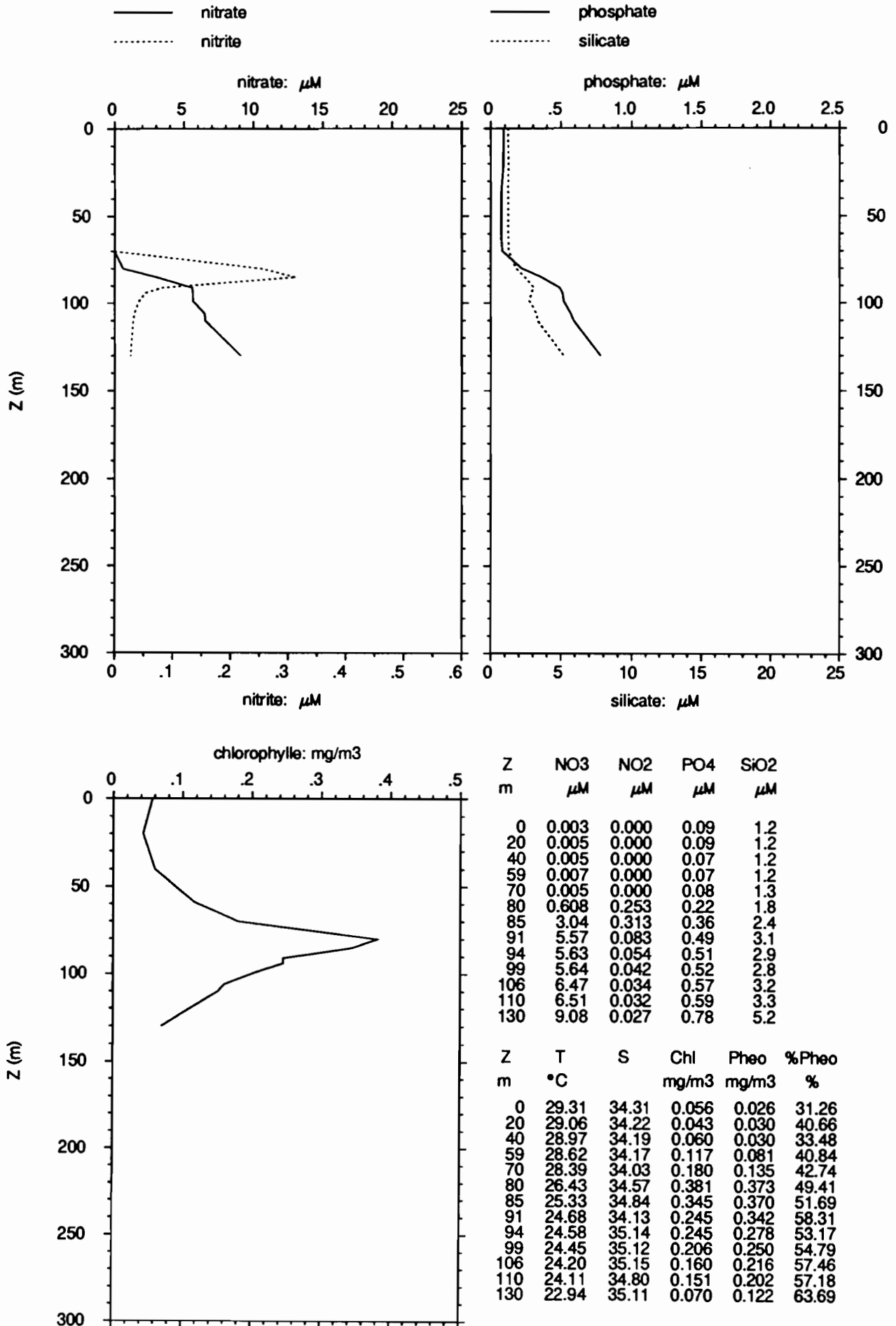
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.173	34.272		
20.0	29.035	34.266		
30.0	29.000	34.265		
40.0	28.939	34.260		
50.0	28.760	34.286		
75.0	26.529	34.948		
100.0	24.369	35.253		
125.0	23.227	35.102		
150.0	20.366	35.141		
200.0	16.736	35.324		
250.0	12.051	34.882		
300.0	11.231	34.814		
400.0	10.045	34.732		

# EQUALIS - station 39

1°30 S 156°15 E

15/11/92, 8h11 TU

15/11/92, 18h11 locale





# EQUALIS -station 40

1°30 S 156°15 E

15/11/92, 9h58 TU

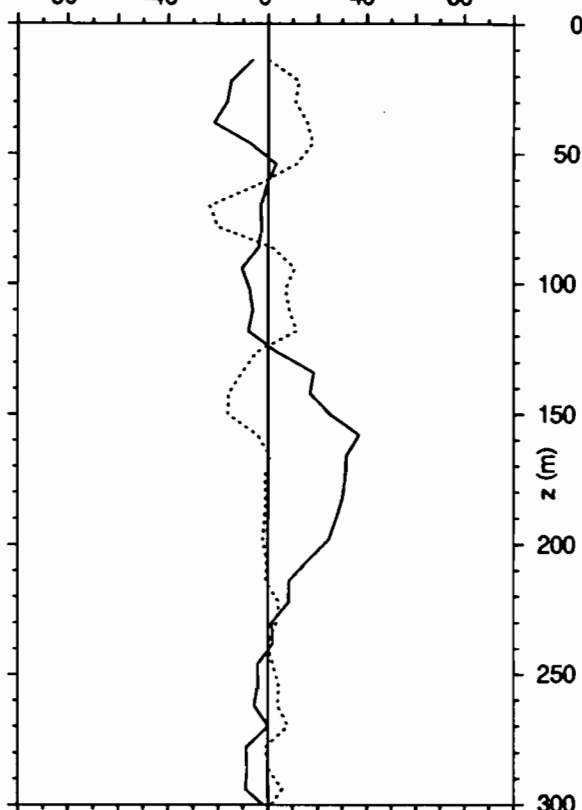
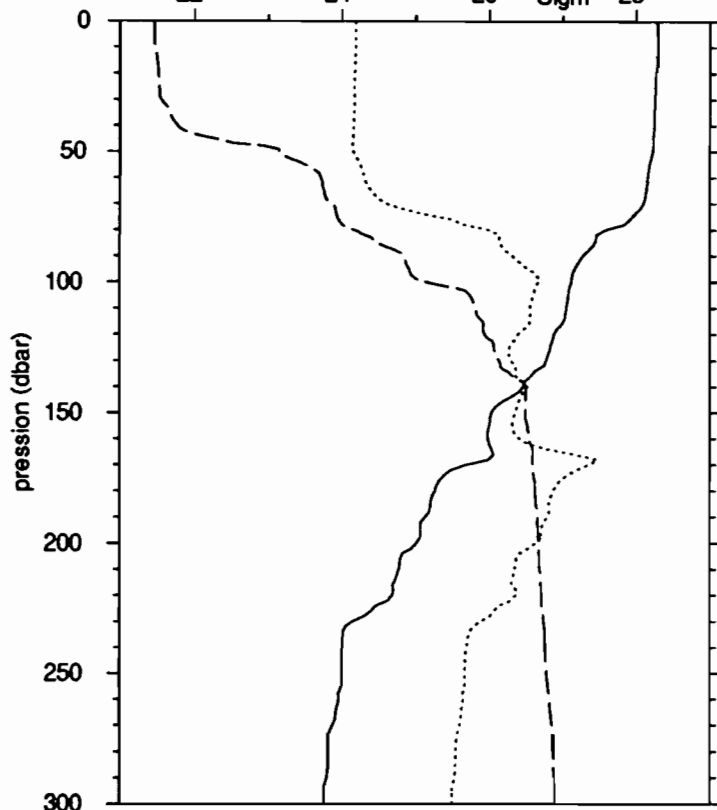
15/11/92, 19h58 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

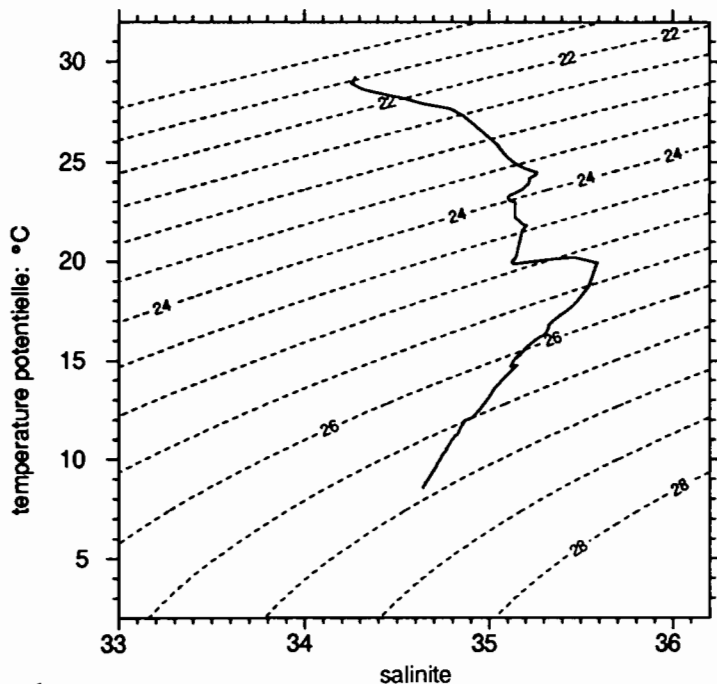


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.156	34.273
fin	504.0	8.597	34.639

	Z	U	V
debut	14.0	-6.2	0.1
fin	374.0	10.8	-1.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.163	34.272		
20.0	29.082	34.268	-12.7	9.4
30.0	29.004	34.267	-16.6	11.0
40.0	28.975	34.263	-18.1	16.3
50.0	28.885	34.260	-1.9	14.8
75.0	27.791	34.715	-2.7	-21.5
100.0	24.471	35.266	-8.2	8.0
125.0	23.316	35.109	2.1	-2.5
150.0	20.113	35.138	25.0	-16.2
200.0	16.047	35.250	22.6	-1.6
250.0	12.003	34.867	-4.1	3.2
300.0	10.981	34.794	-2.0	1.5
400.0	9.846	34.717		
500.0	8.647	34.642		

# EQUALIS - station 40

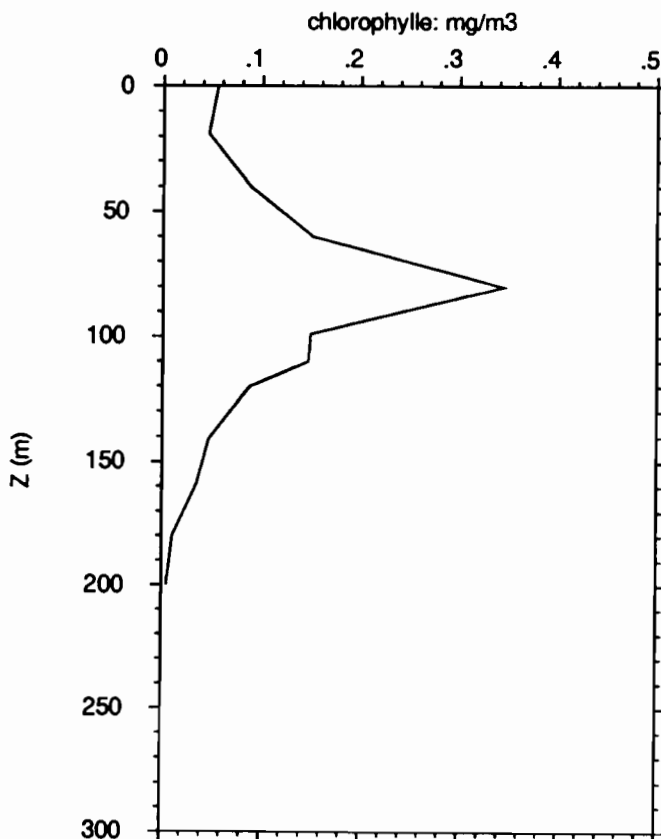
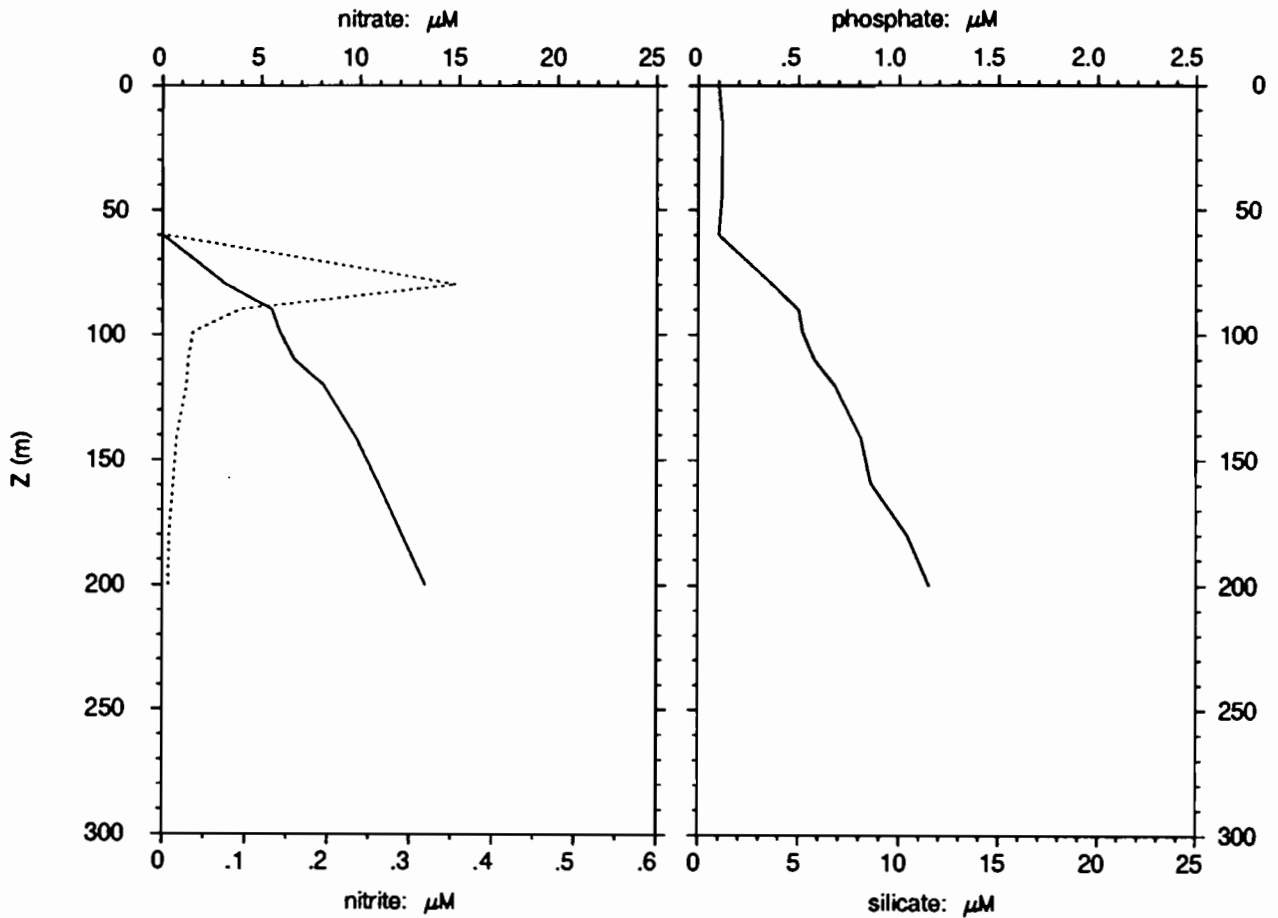
1° 30 S 156° 15 E

15/11/92, 9h58 TU

15/11/92, 19h58 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.001	0.10	
19	0.004	0.001	0.12	
40	0.004	0.001	0.12	
60	0.005	0.001	0.10	
80	3.20	0.356	0.37	
90	5.50	0.095	0.50	
99	5.91	0.037	0.52	
110	6.63	0.031	0.58	
120	8.11	0.029	0.68	
141	9.77	0.017	0.81	
159	10.88	0.013	0.86	
180	12.11	0.008	1.04	
200	13.28	0.007	1.15	

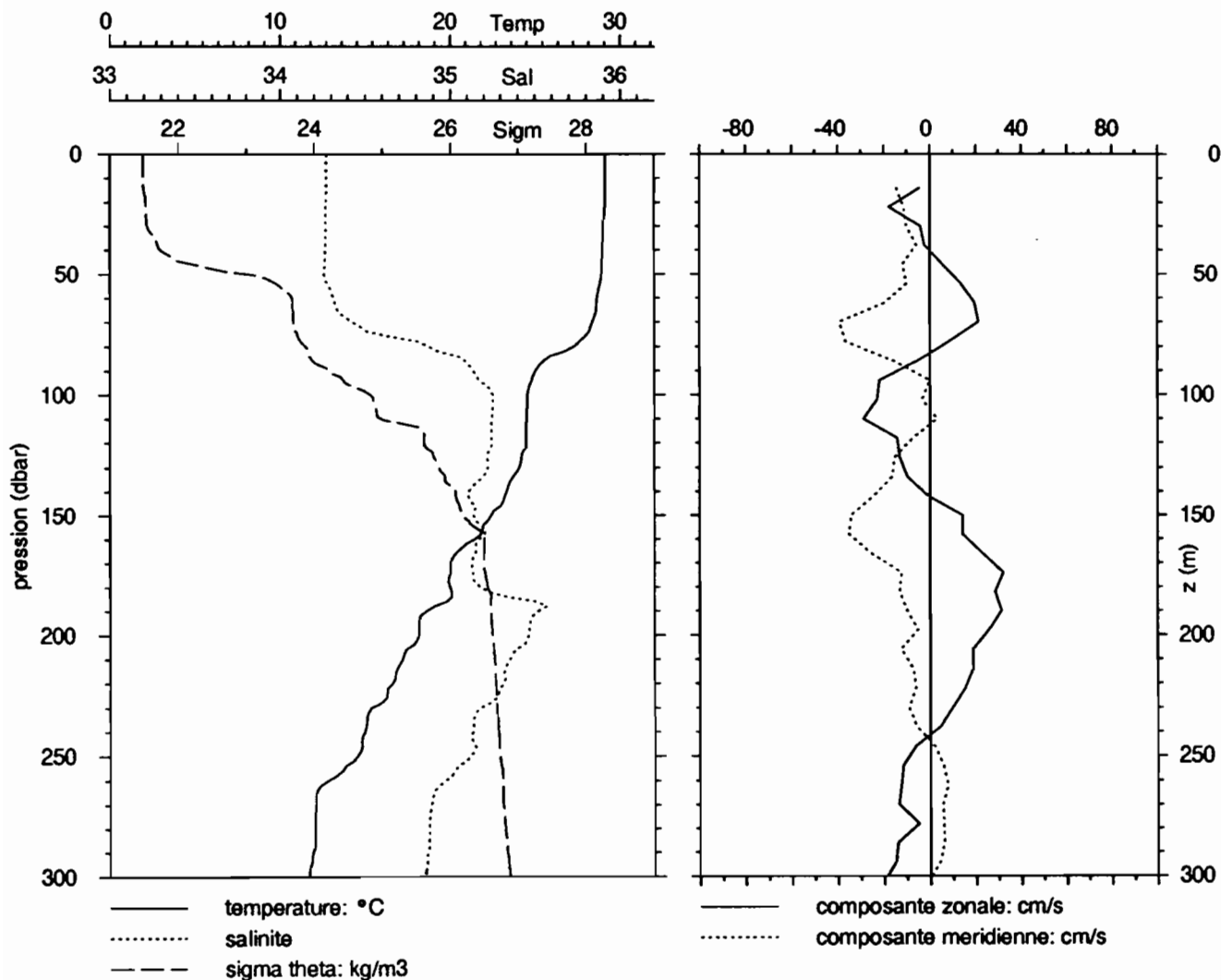
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.27	34.31	0.055	0.030	35.20
19	29.07	34.25	0.046	0.025	35.25
40	28.93	34.05	0.088	0.048	35.59
60	28.51	34.29	0.151	0.122	44.73
80	25.63	34.61	0.345	0.382	52.50
90	24.70	35.08	0.241	0.320	56.97
99	24.38	35.13	0.149	0.258	63.33
110	24.17	34.99	0.147	0.217	59.60
120	23.50	34.44	0.088	0.117	57.18
141	21.91	34.65	0.047	0.071	60.24
159	19.87	34.65	0.035	0.045	56.22
180	17.24	35.12	0.011	0.015	59.01
200	16.03	35.22	0.005	0.033	87.63

# EQUALIS -station 41

15/11/92, 13h 0 TU

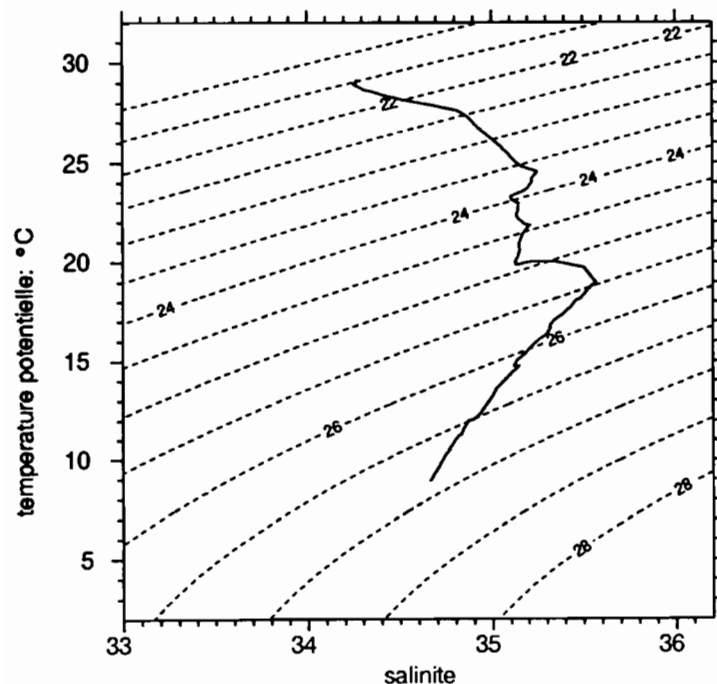
1° 30 S 156° 15 E

15/11/92, 23h 0 locale



	P	T	S
debut	6.0	29.101	34.271
fin	504.0	8.966	34.661

	Z	U	V
debut	14.0	-4.3	-14.6
fin	326.0	-18.1	-1.0



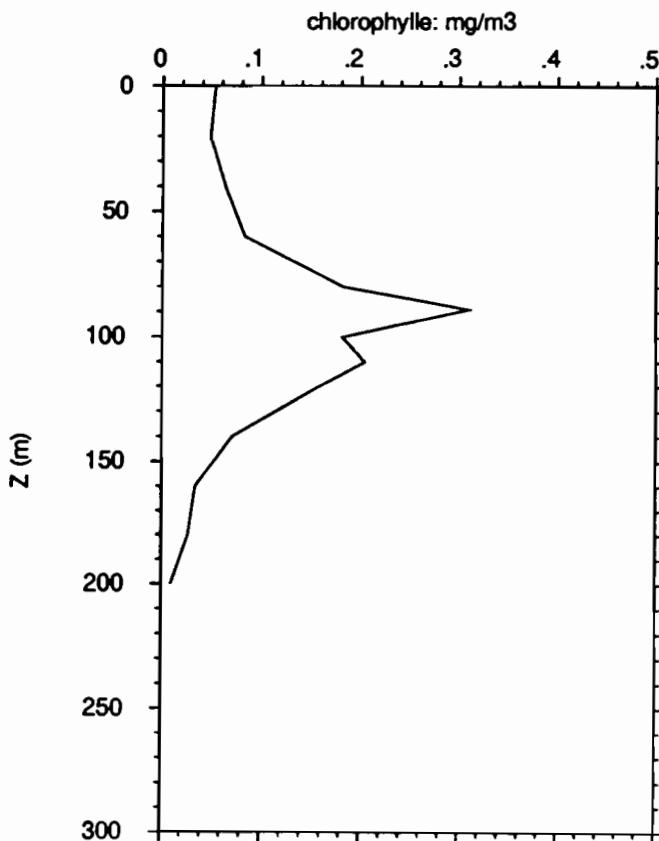
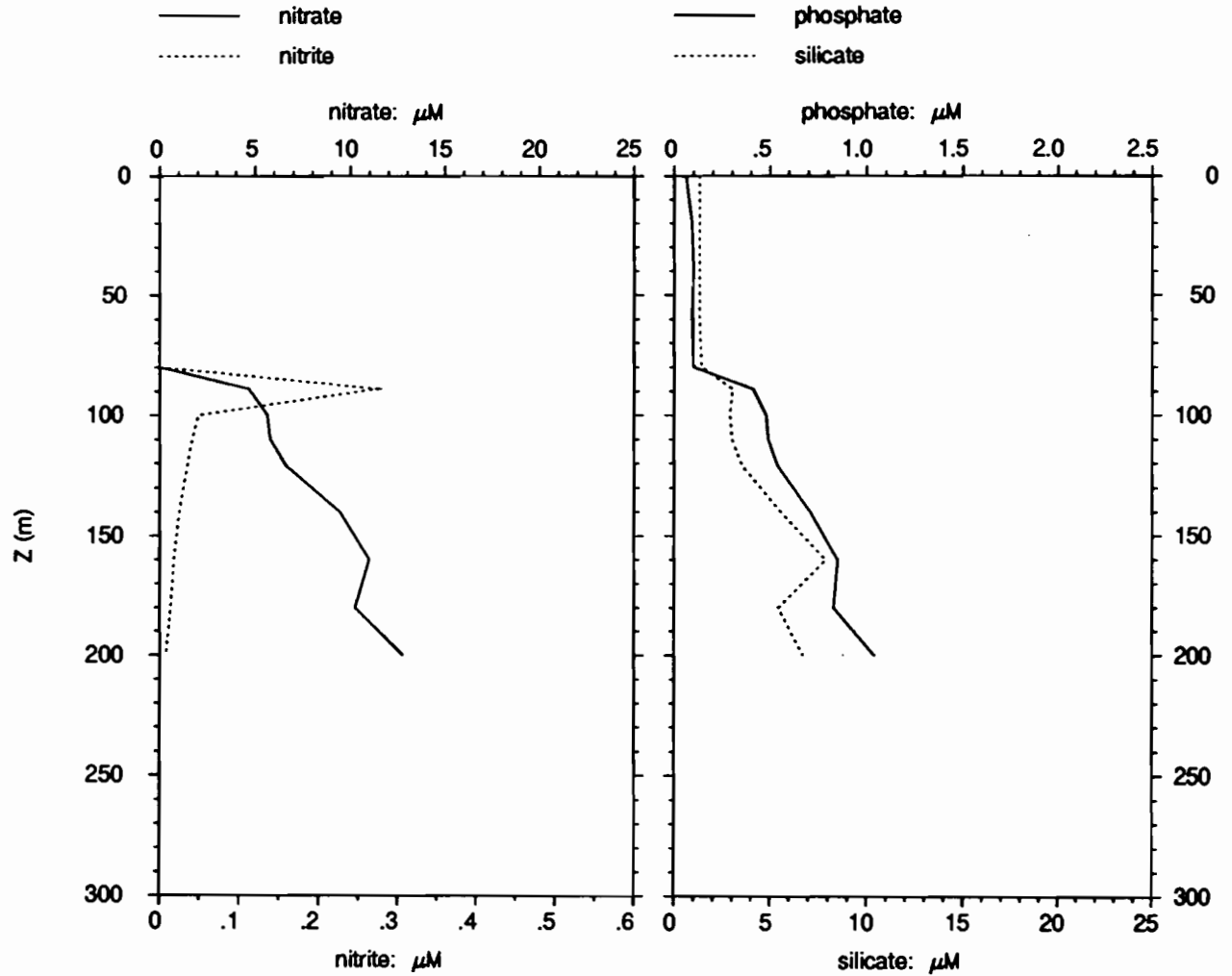
P	T	S	U	V
dbar	°C	S	cm/s	cm/s
10.0	29.102	34.271		
20.0	29.104	34.270	-14.4	-12.1
30.0	28.997	34.267	-4.1	-10.2
40.0	28.976	34.264	-0.3	-7.3
50.0	28.916	34.257	9.5	-11.0
75.0	28.050	34.580	13.1	-37.6
100.0	24.555	35.252	-22.6	-37.6
125.0	24.227	35.220	-13.2	-14.3
150.0	22.402	35.136	14.1	-34.3
200.0	18.110	35.462	24.0	-7.0
250.0	14.495	35.114	-8.9	3.8
300.0	11.636	34.846	-18.6	0.6
400.0	10.328	34.750		
500.0	8.976	34.662		

# EQUALIS - station 41

1°30 S 156°15 E

15/11/92, 13h 0 TU

15/11/92, 23h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.005	0.000	0.06	1.3
20	0.009	0.000	0.09	1.3
41	0.009	0.000	0.10	1.3
60	0.008	0.000	0.09	1.3
80	0.008	0.000	0.10	1.4
89	4.67	0.274	0.41	3.0
100	5.65	0.049	0.48	2.9
110	5.80	0.041	0.49	3.0
121	6.62	0.035	0.54	3.5
140	9.44	0.025	0.71	5.6
160	10.99	0.018	0.85	7.9
180	10.25	0.014	0.83	5.4
200	12.76	0.008	1.04	6.7

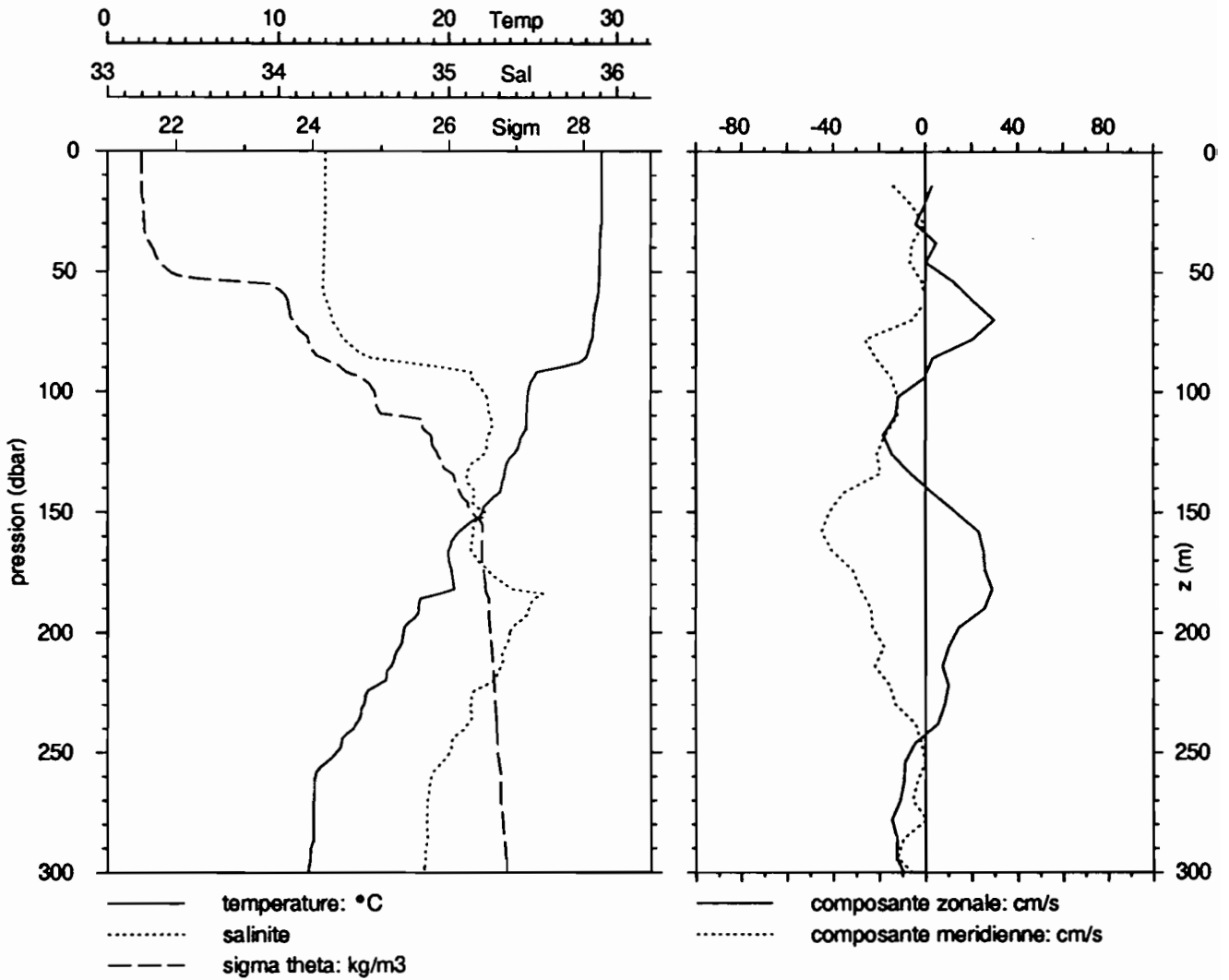
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.21	34.30	0.053	0.030	36.42
20	29.10	34.23	0.048	0.023	32.28
41	28.98	34.20	0.064	0.040	38.61
60	28.72	34.18	0.083	0.076	47.99
80	27.95	34.07	0.182	0.190	51.11
89	25.12	34.84	0.310	0.411	56.98
100	24.57	35.18	0.181	0.255	58.42
110	24.50	35.12	0.204	0.273	57.28
121	24.21	34.34	0.153	0.226	59.52
140	23.16	34.28	0.071	0.134	65.40
160	19.51	35.23	0.034	0.084	71.07
180	19.25	34.48	0.027	0.045	62.57
200	17.24	35.33	0.010	0.012	54.96

# EQUALIS -station 42

1°30 S 156°15 E

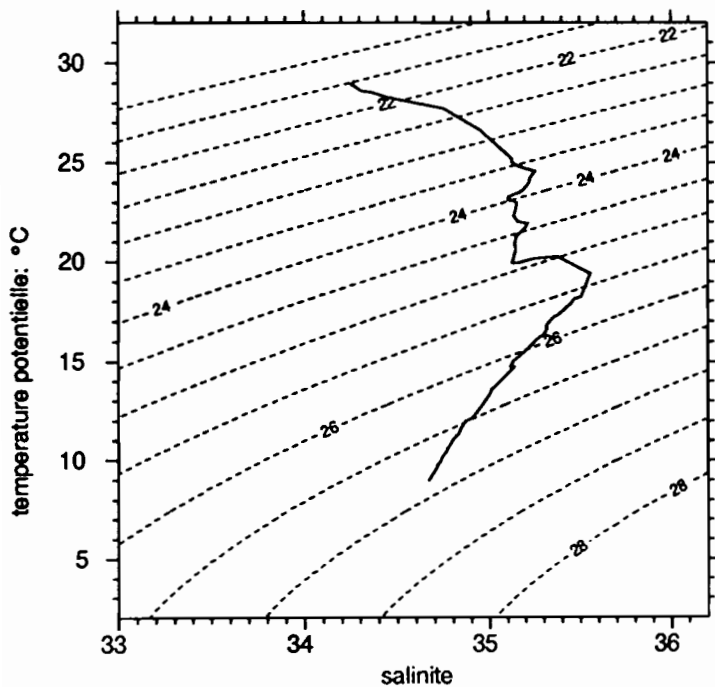
15/11/92, 16h 6 TU

16/11/92, 2h 6 locale



	P	T	S
debut	6.0	29.082	34.270
fin	500.0	9.019	34.667

	Z	U	V
debut	14.0	2.9	-13.9
fin	318.0	-12.0	-10.1



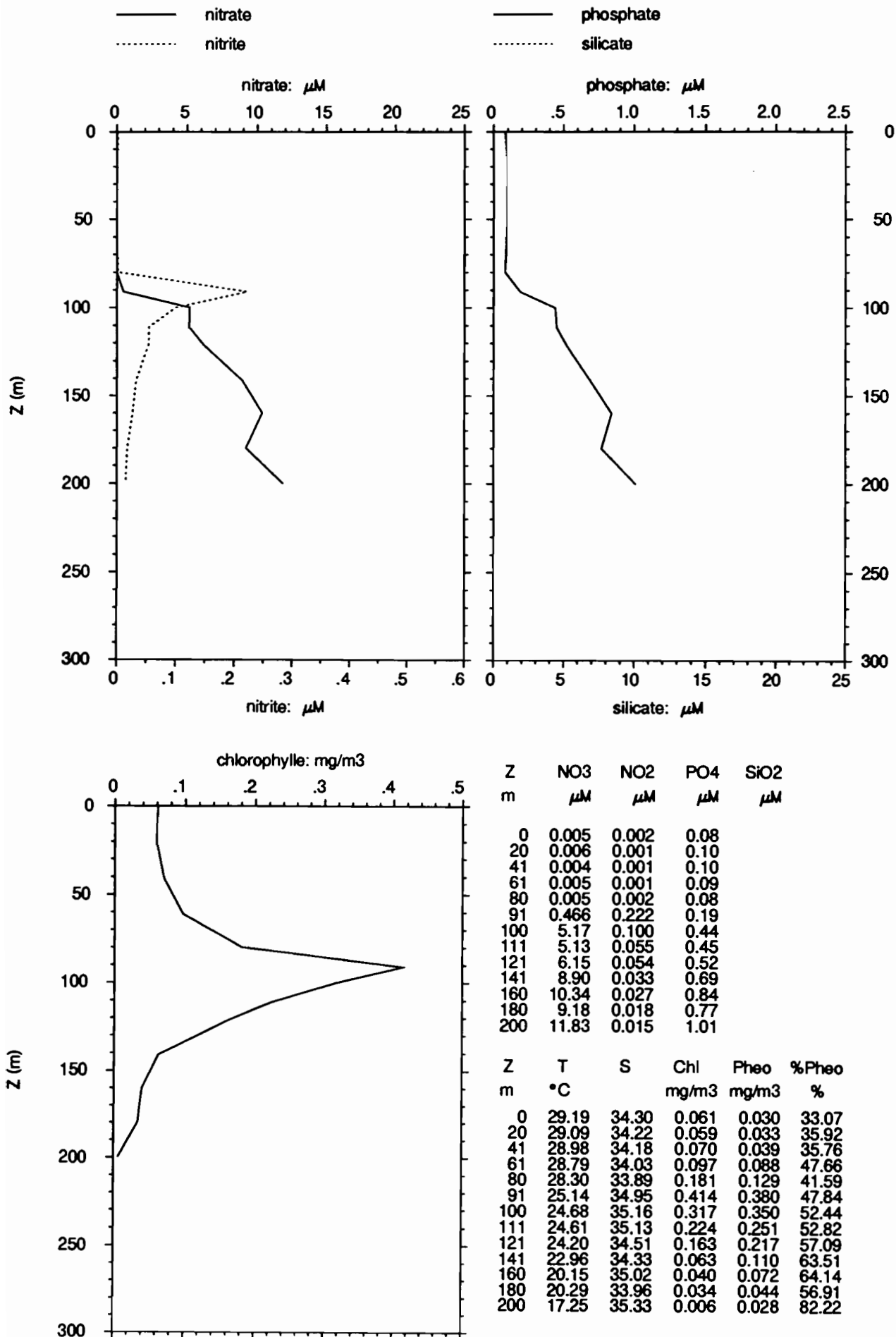
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.088	34.270		
20.0	29.088	34.270	0.5	-7.9
30.0	29.069	34.268	-4.1	-0.5
40.0	28.988	34.264	3.7	-5.8
50.0	28.948	34.261	6.2	-4.1
75.0	28.568	34.352	23.8	-18.4
100.0	24.698	35.201	-8.9	-12.7
125.0	23.959	35.216	-15.0	-20.6
150.0	21.965	35.212	13.2	-41.9
200.0	17.261	35.360	13.3	-21.6
250.0	13.347	35.002	-6.6	-21.6
300.0	11.680	34.846	-9.6	-5.9
400.0	10.372	34.754		
500.0	9.019	34.667		

# EQUALIS - station 42

1°30 S 156°15 E

15/11/92, 16h 6 TU

16/11/92, 2h 6 locale

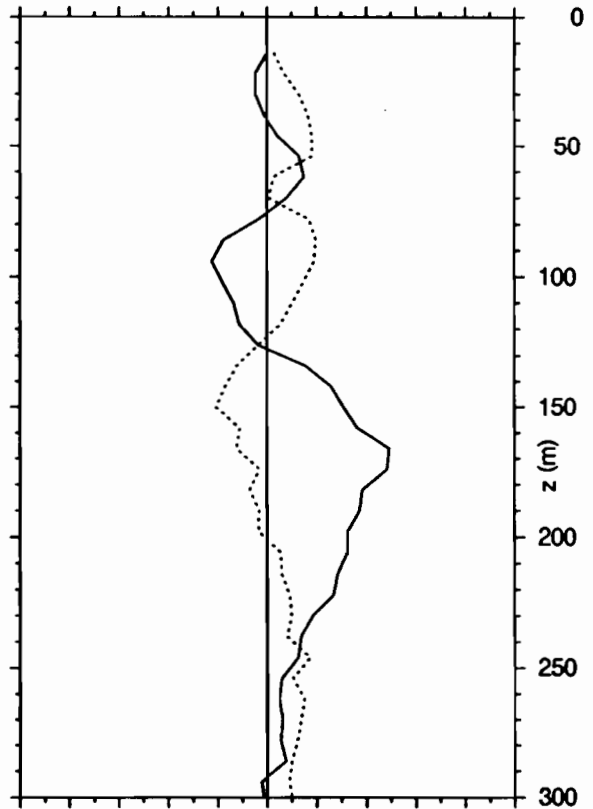
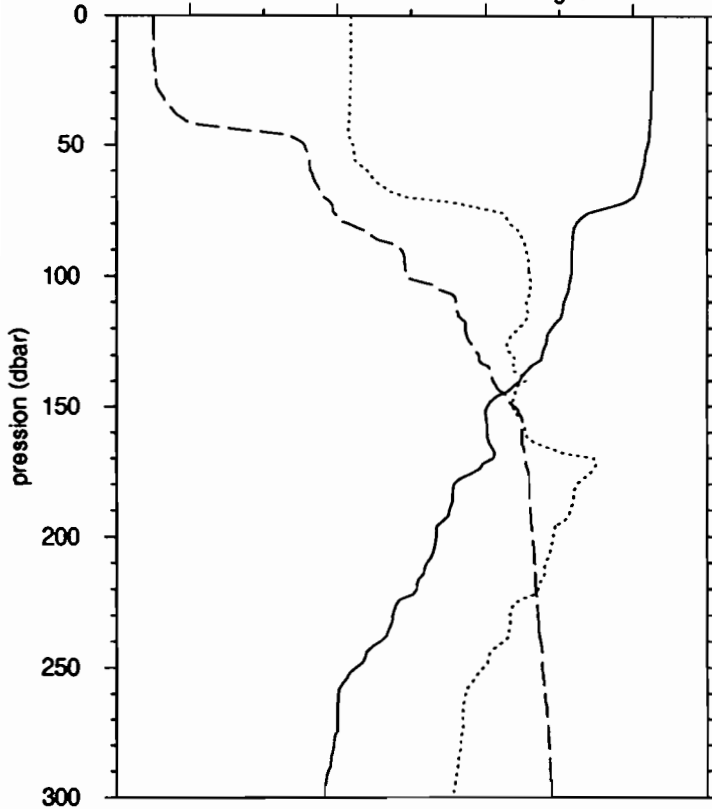
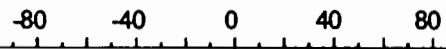
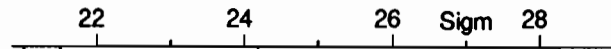
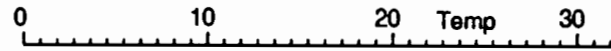


# EQUALIS -station 43

15/11/92, 19h 1 TU

1°30 S 156°15 E

16/11/92, 5h 1 locale

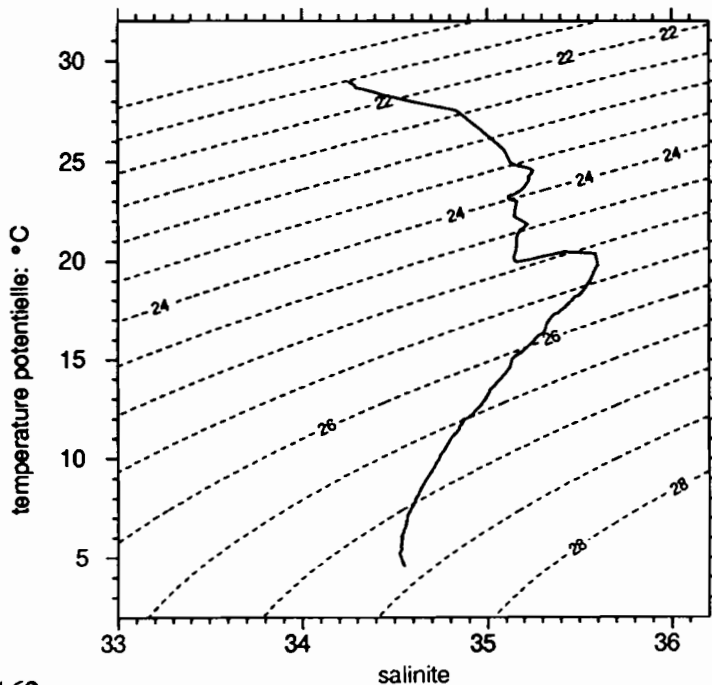


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	2.0	29.063	34.273
fin	996.0	4.669	34.549

	Z	U	V
debut	14.0	0.0	2.9
fin	390.0	3.1	16.4



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.066	34.273		
20.0	29.067	34.273	-9.6	5.9
30.0	29.008	34.271	-4.6	12.9
40.0	28.950	34.265	0.1	17.1
50.0	28.815	34.286	8.6	18.2
75.0	26.112	35.028	1.0	11.0
100.0	24.647	35.237	-19.2	15.8
125.0	23.320	35.122	-4.5	-2.5
150.0	20.078	35.146	30.9	-20.8
200.0	17.332	35.367	32.5	-1.0
250.0	12.992	34.986	9.4	14.1
300.0	11.268	34.825	-1.3	10.1
400.0	10.062	34.740		
500.0	8.698	34.650		
600.0	6.695	34.560		
700.0	6.144	34.541		
800.0	5.696	34.536		
900.0	5.309	34.527		

# EQUALIS - station 43

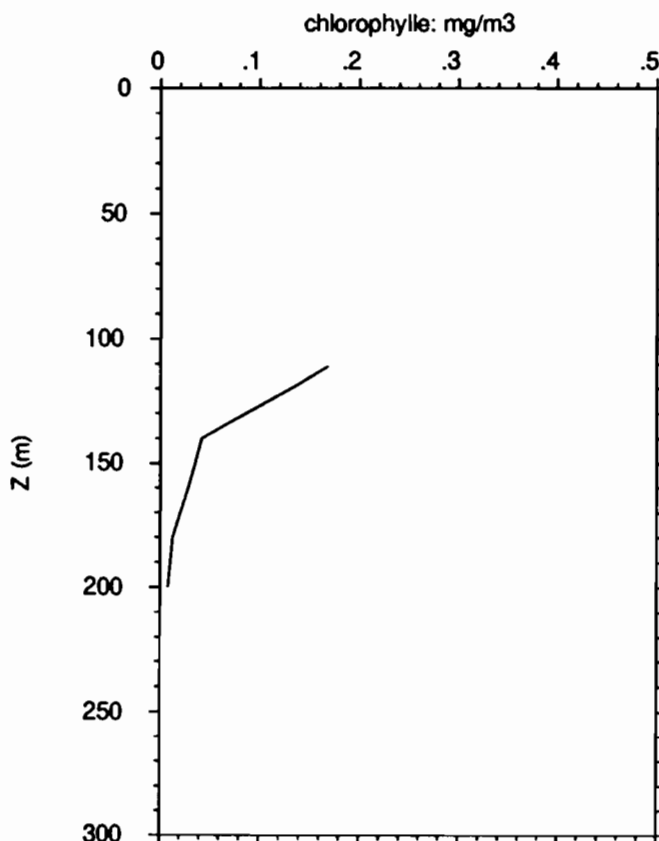
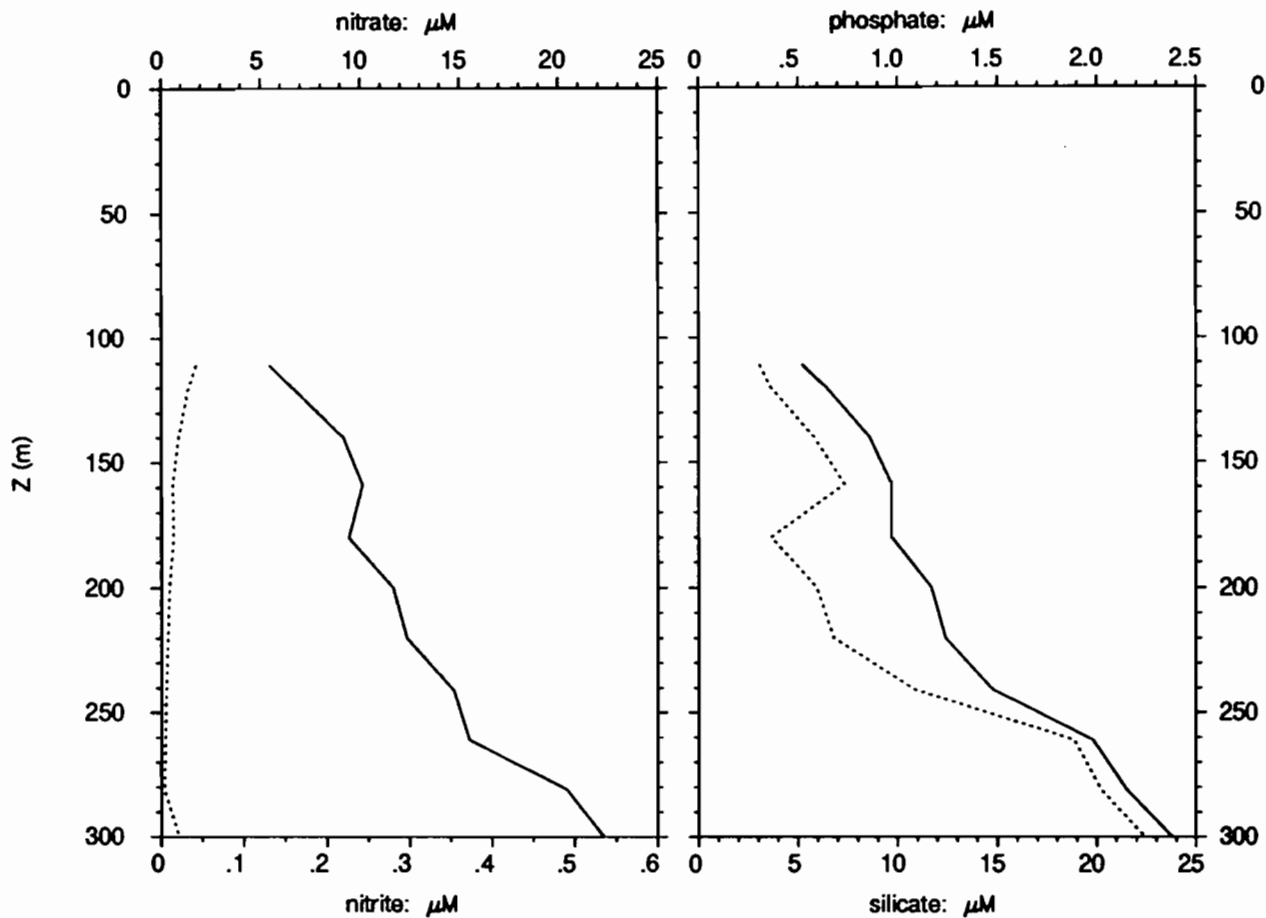
1°30 S 156°15 E

15/11/92, 19h 1 TU

16/11/92, 5h 1 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
111	5.45	0.042	0.52	3.1
120	6.59	0.033	0.64	3.6
140	9.16	0.021	0.86	5.8
159	10.12	0.014	0.97	7.3
180	9.44	0.015	0.97	3.7
200	11.66	0.010	1.17	5.9
220	12.35	0.008	1.24	6.8
241	14.72	0.006	1.48	10.9
261	15.52	0.005	1.98	18.9
281	20.46	0.004	2.15	20.2
300	22.30	0.022	2.38	22.4
1000	29.13	0.039	3.52	68.5

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
111	24.28	35.17	0.168	0.241	58.91
120	23.77	34.59	0.131	0.188	58.87
140	22.27	34.32	0.042	0.102	71.04
159	20.03	35.11	0.029	0.058	66.48
180	19.37	34.58	0.013	0.040	74.95
200	17.37	34.95	0.008	0.028	78.72
220	16.30	34.32			
241	14.22	35.04			
261	12.04	34.78			
281	11.82	34.37			
300	11.27	34.81			
1000	4.67	34.54			

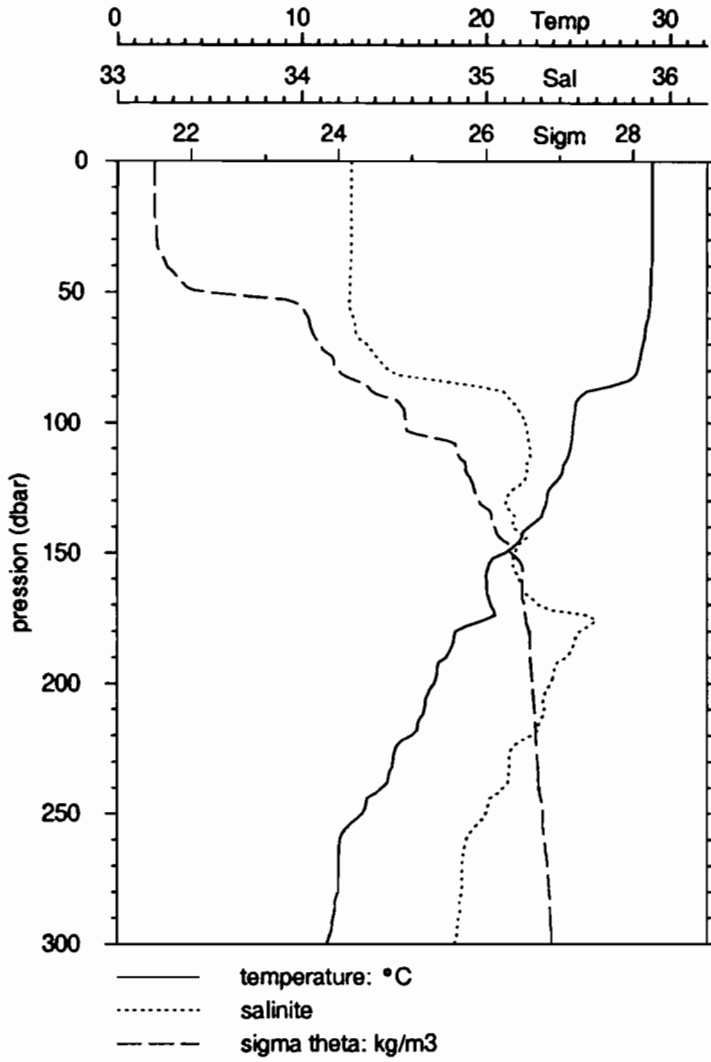


# EQUALIS -station 44

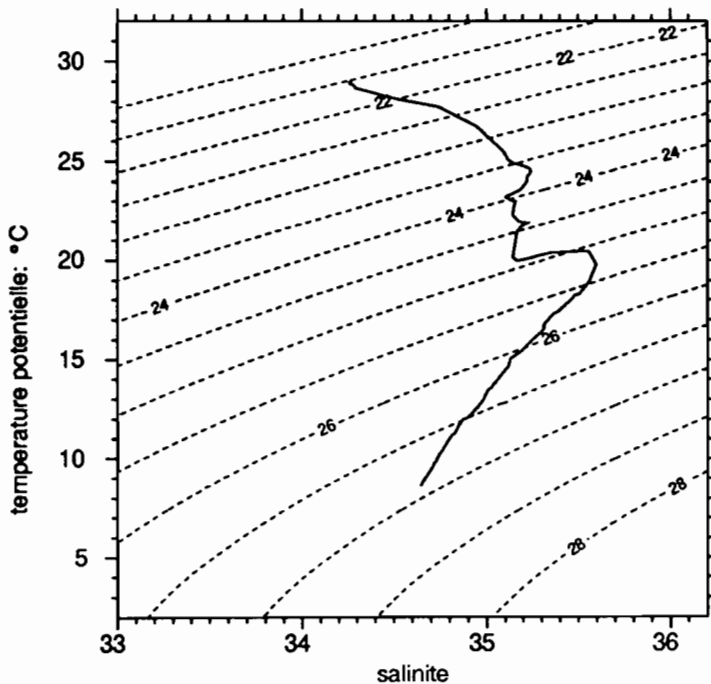
15/11/92, 20h24 TU

1° 30 S 156° 15 E

16/11/92, 6h24 locale



	P	T	S
debut	4.0	29.056	34.271
fin	500.0	8.710	34.646



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.057	34.271		
20.0	29.059	34.271		
30.0	29.056	34.271		
40.0	28.991	34.268		
50.0	28.954	34.263		
75.0	28.395	34.408		
100.0	24.745	35.213		
125.0	23.515	35.163		
150.0	21.032	35.158		
200.0	17.208	35.353		
250.0	13.313	34.998		
300.0	11.368	34.831		
400.0	10.245	34.744		
500.0	8.710	34.646		

# EQUALIS - station 44

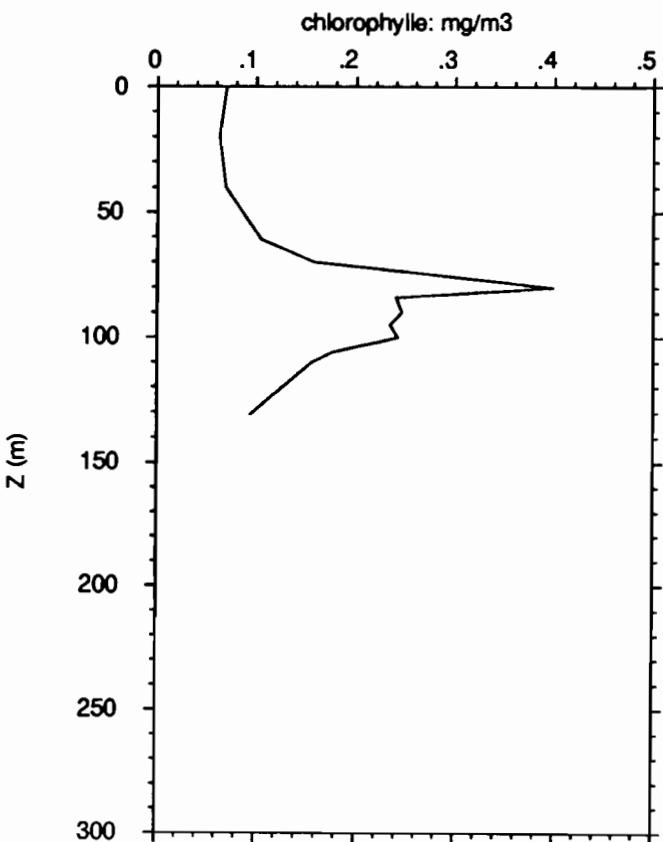
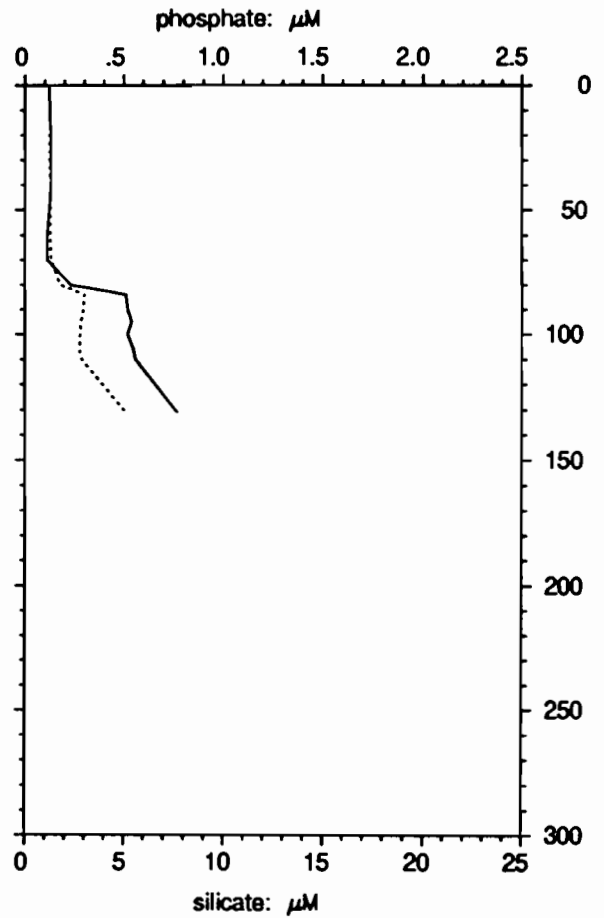
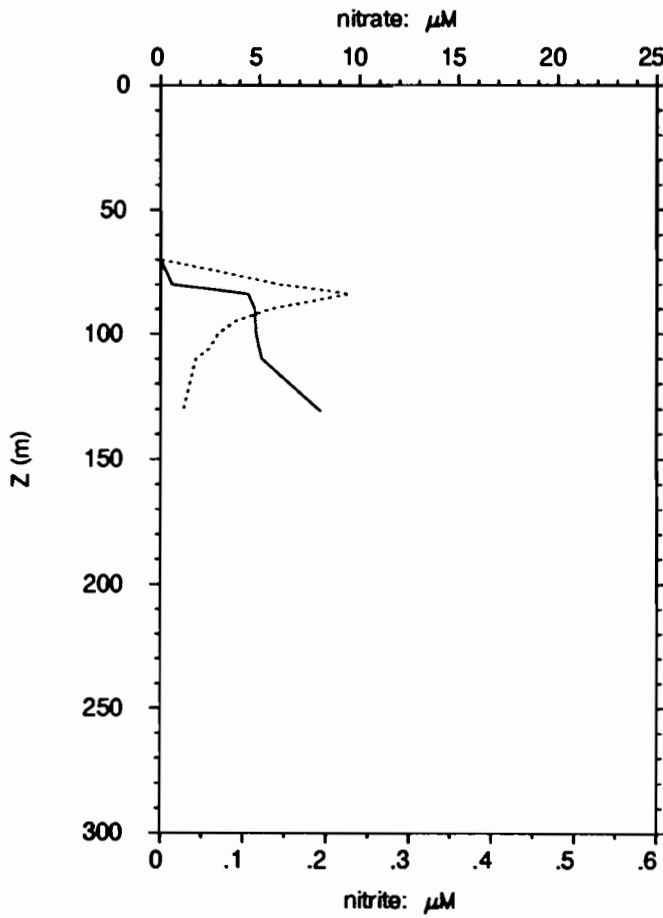
1°30 S 156°15 E

15/11/92, 20h24 TU

16/11/92, 6h24 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.006	0.000	0.12	1.3
20	0.005	0.000	0.13	1.2
40	0.007	0.000	0.13	1.3
61	0.004	0.001	0.11	1.3
70	0.003	0.001	0.11	1.3
80	0.584	0.143	0.23	1.8
84	4.43	0.228	0.51	3.0
90	4.75	0.135	0.52	3.0
95	4.78	0.091	0.54	2.8
100	4.82	0.070	0.52	2.8
106	4.99	0.059	0.55	2.8
110	5.10	0.043	0.56	2.9
131	8.07	0.027	0.77	5.1

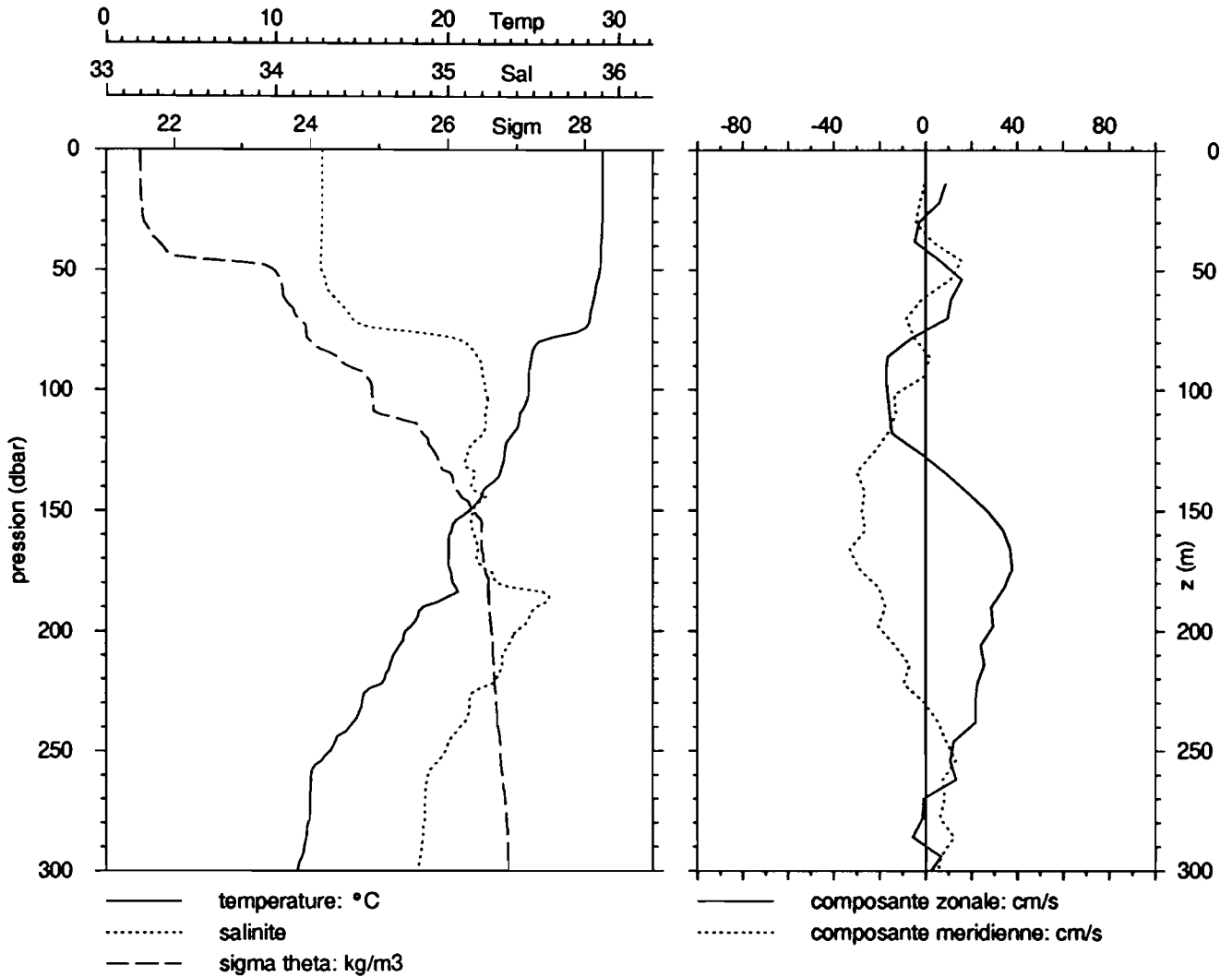
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.16	34.30	0.070	0.039	35.65
20	29.06	34.24	0.063	0.028	30.49
40	28.97	34.17	0.069	0.048	41.21
61	28.61	34.13	0.105	0.070	39.93
70	28.36	33.73	0.158	0.103	39.50
80	25.48	34.87	0.399	0.312	43.87
84	25.02	35.03	0.240	0.339	58.56
90	24.85	35.13	0.246	0.266	52.04
95	24.75	35.16	0.234	0.254	52.04
100	24.66	35.10	0.242	0.234	49.20
106	24.59	35.06	0.176	0.209	54.22
110	24.42	34.99	0.156	0.222	58.77
131	23.30	35.09	0.094	0.141	60.01

# EQUALIS -station 45

15/11/92, 22h 6 TU

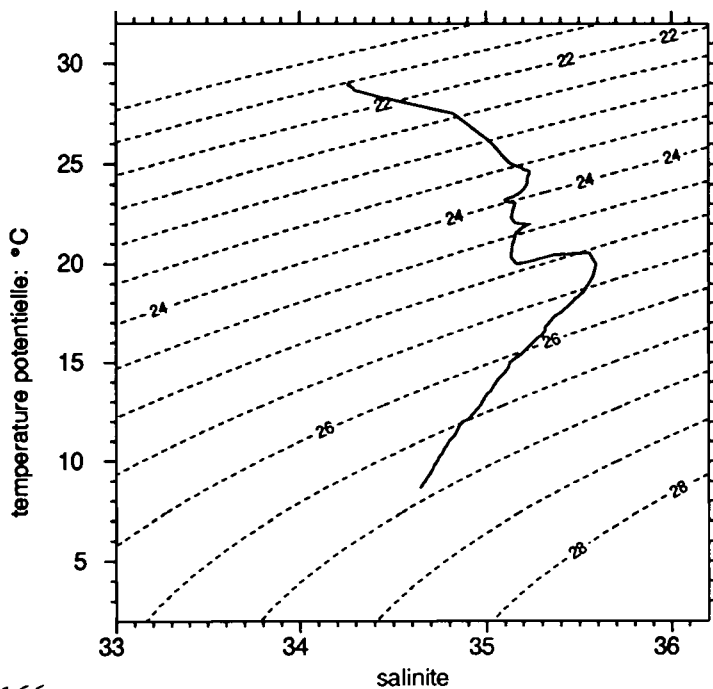
1°30 S 156°15 E

16/11/92, 8h 6 locale



	P	T	S
debut	8.0	29.068	34.270
fin	506.0	8.704	34.646

	Z	U	V
debut	14.0	8.9	-0.4
fin	398.0	11.7	-9.0



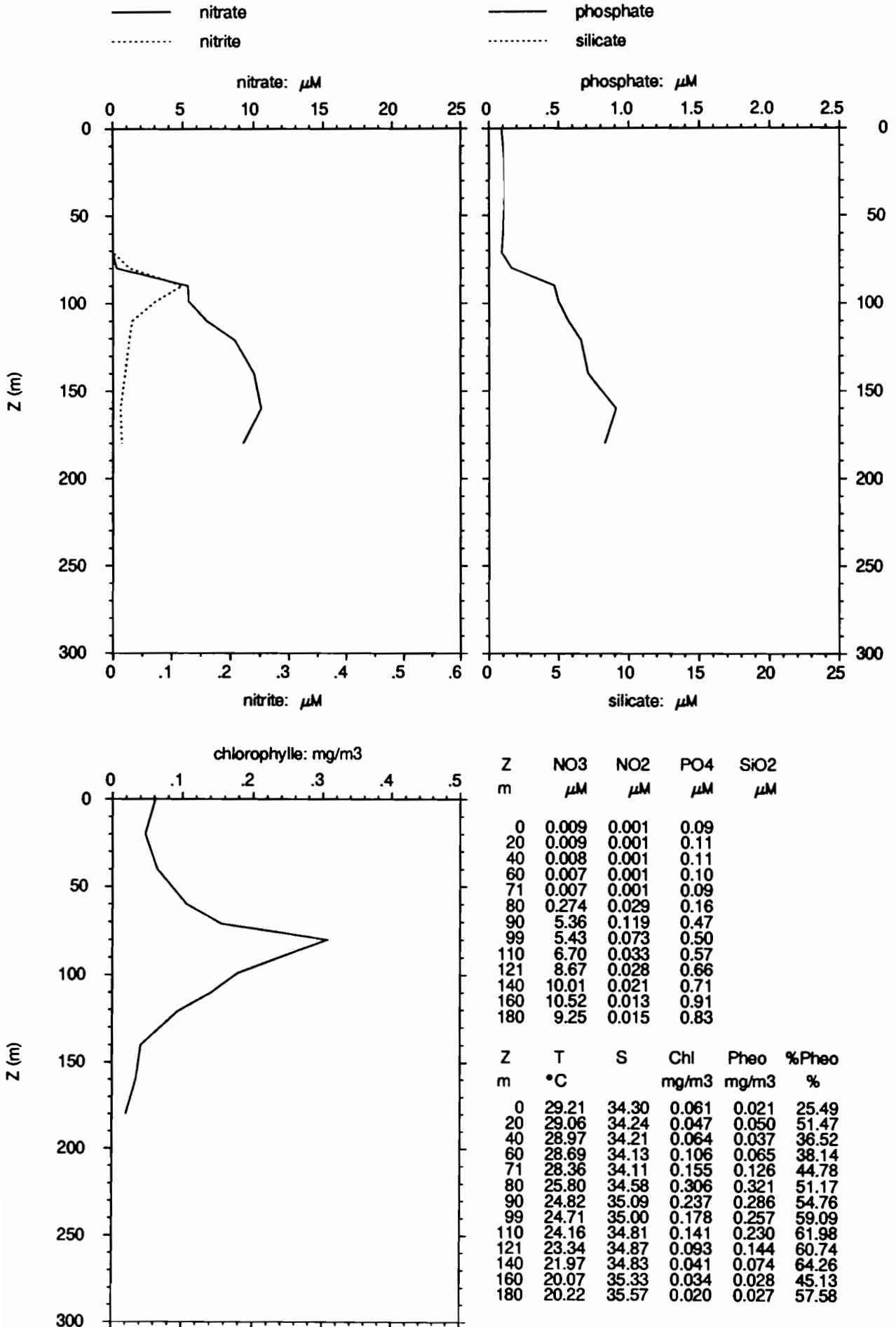
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.065	34.270		
20.0	29.064	34.270	6.8	-2.0
30.0	29.052	34.269	-2.8	-4.2
40.0	28.970	34.264	-1.8	6.2
50.0	28.888	34.262	11.1	13.3
75.0	27.805	34.684	0.1	-6.2
100.0	24.708	35.219	-16.5	-10.1
125.0	23.325	35.122	-3.9	-21.9
150.0	21.299	35.154	27.0	-27.7
200.0	17.530	35.399	28.1	-18.8
250.0	13.183	34.988	11.5	11.1
300.0	11.274	34.822	2.5	5.5
400.0	10.181	34.741		
500.0	8.758	34.649		

# EQUALIS - station 45

1°30 S 156°15 E

15/11/92, 22h 6 TU

16/11/92, 8h 6 locale

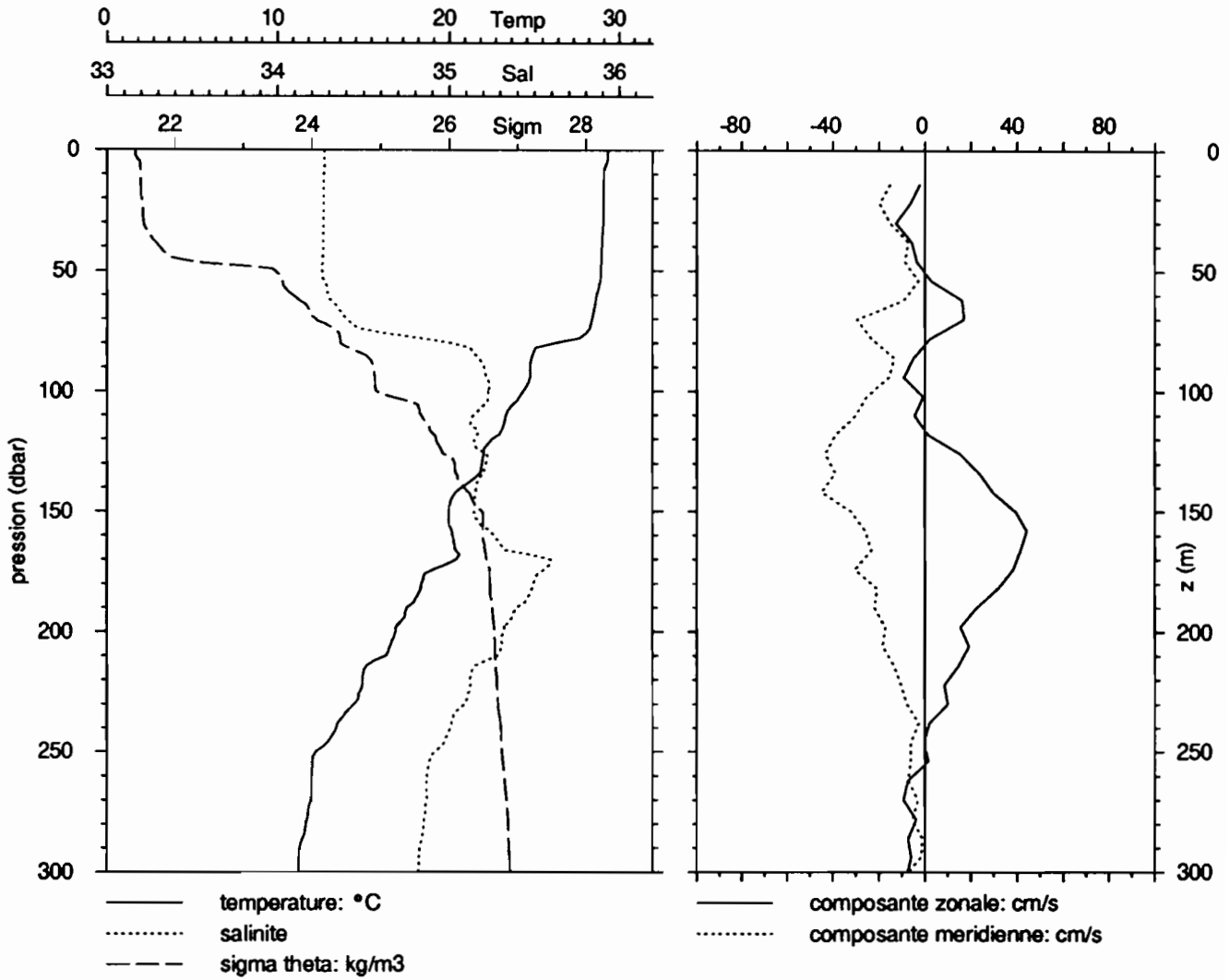


# EQUALIS -station 47

16/11/92, 1h 2 TU

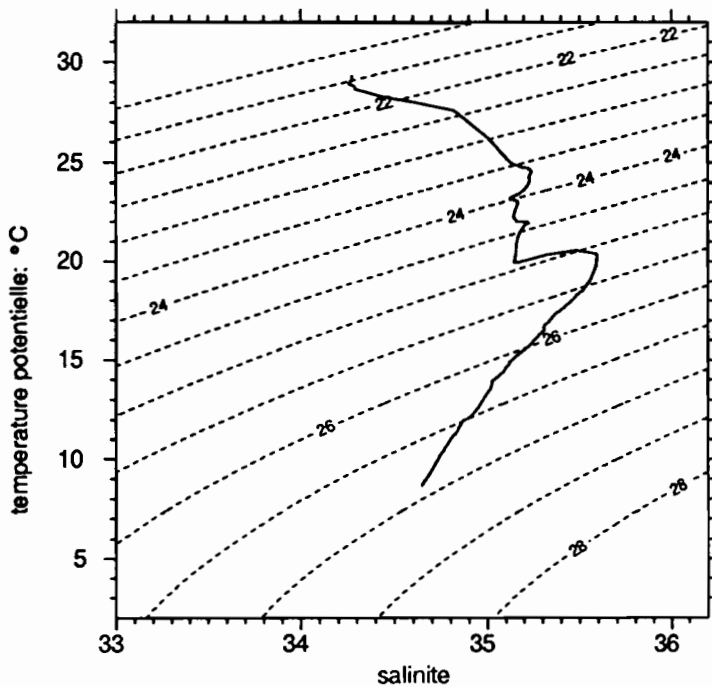
1°30 S 156°15 E

16/11/92, 11h 2 locale



	P	T	S
debut	4.0	29.305	34.273
fin	504.0	8.704	34.646

	Z	U	V
debut	14.0	-2.3	-15.2
fin	390.0	0.4	-9.3



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.098	34.271		
20.0	29.077	34.269	-5.4	-18.6
30.0	29.060	34.269	-12.7	-15.2
40.0	28.976	34.265	-5.1	-7.7
50.0	28.929	34.259	-0.3	-5.8
75.0	28.126	34.543	7.9	-25.6
100.0	24.329	35.227	-2.9	-22.9
125.0	22.035	35.191	13.8	-42.7
150.0	19.988	35.144	39.4	-32.1
200.0	16.848	35.319	16.5	-17.5
250.0	12.258	34.917	0.8	-6.1
300.0	11.245	34.817	-7.4	-7.2
400.0	9.903	34.725		
500.0	8.736	34.648		

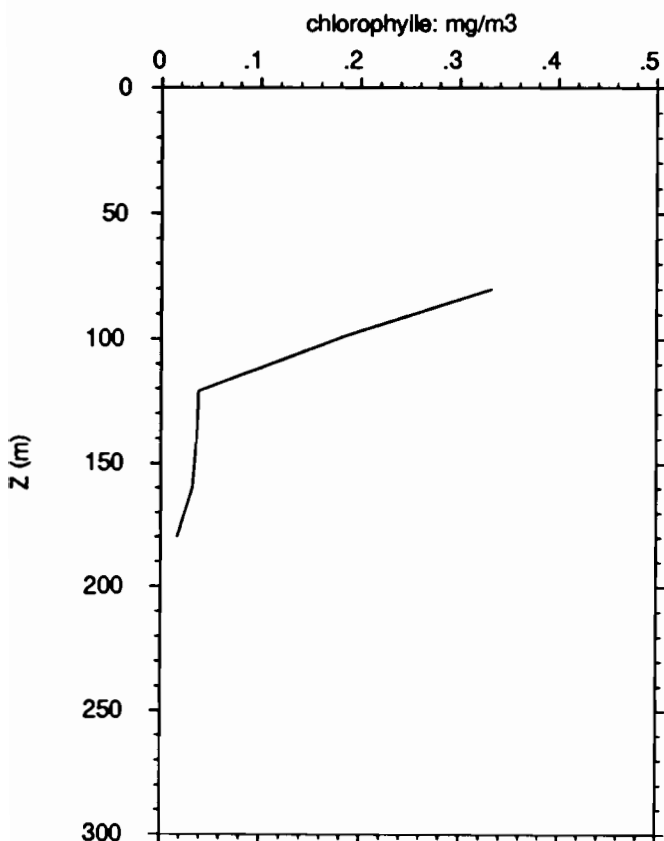
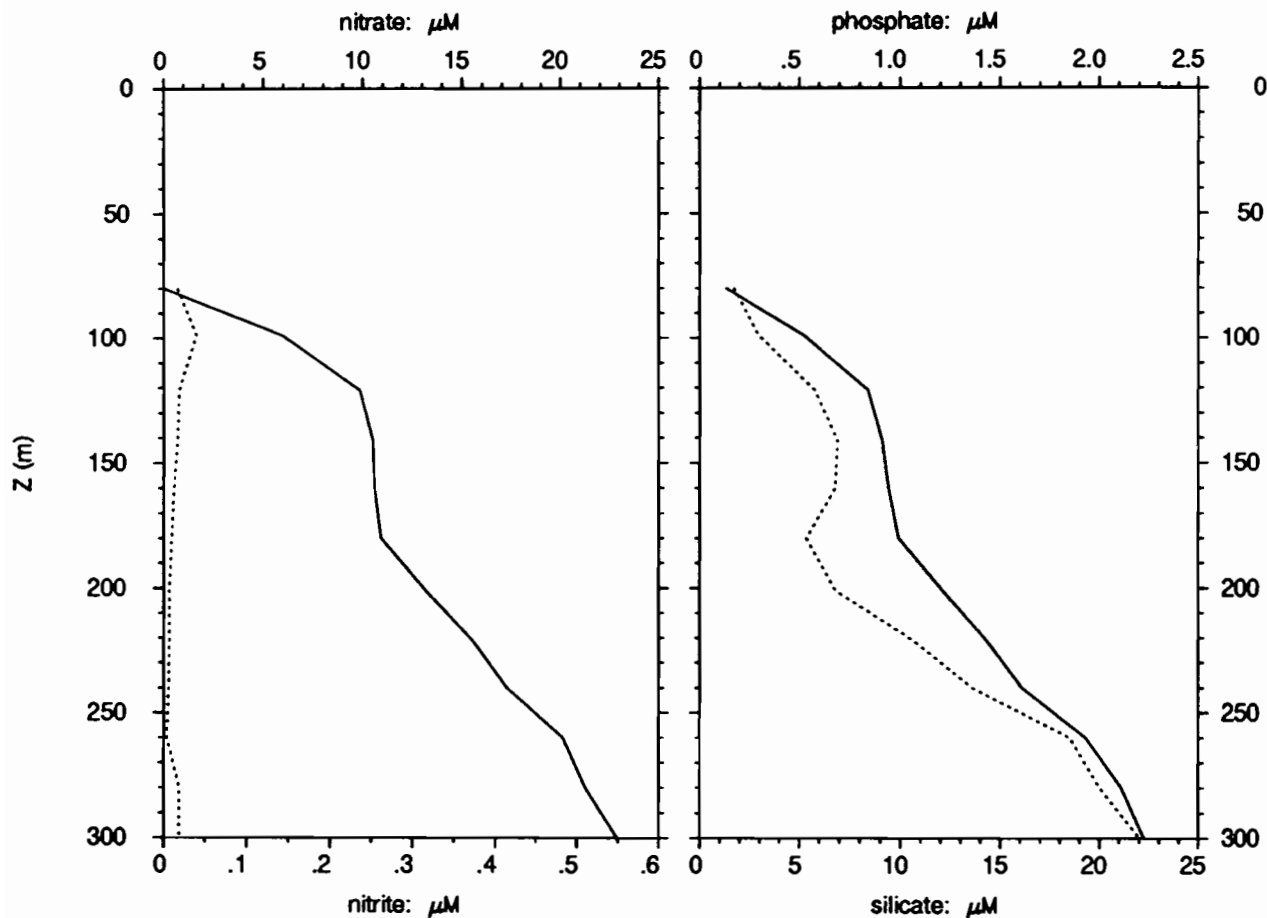
# EQUALIS - station 47

1°30 S 156°15 E

16/11/92, 1h 2 TU

16/11/92, 11h 2 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
80	0.032	0.017	0.13	1.7
99	5.93	0.040	0.52	2.9
121	9.85	0.019	0.84	5.8
141	10.49	0.017	0.91	6.9
160	10.59	0.013	0.94	6.8
180	10.91	0.010	0.99	5.3
201	13.18	0.007	1.21	6.8
221	15.50	0.007	1.43	10.6
240	17.27	0.006	1.61	13.6
260	20.12	0.004	1.93	18.5
280	21.27	0.019	2.11	20.0
301	22.96	0.019	2.23	22.1

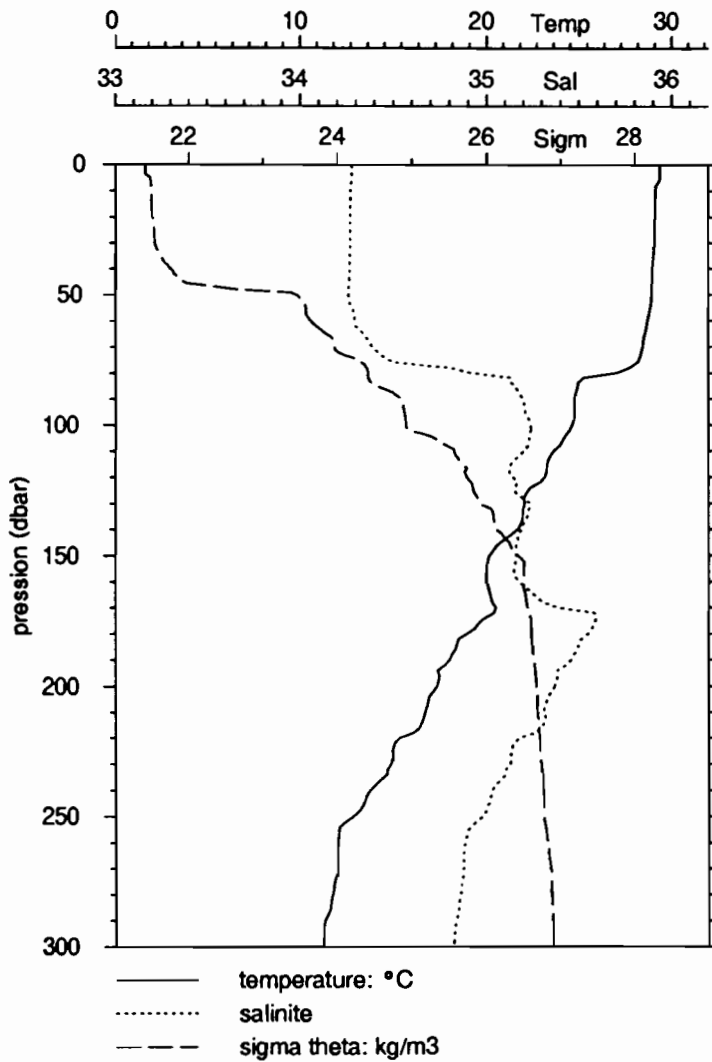
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
80	25.33	34.81	0.332	0.355	51.62
99	24.36	35.20	0.183	0.268	59.49
121	22.29	34.63	0.038	0.105	73.37
141	20.61	34.92	0.036	0.086	70.83
160	20.04	34.79	0.032	0.044	58.10
180	18.39	34.68	0.017	0.047	73.52
201	16.88	34.86			
221	14.95	34.10			
240	13.49	33.99			
260	12.02	34.65			
280	11.76	34.80			
301	11.25	34.81			

# EQUALIS -station 48

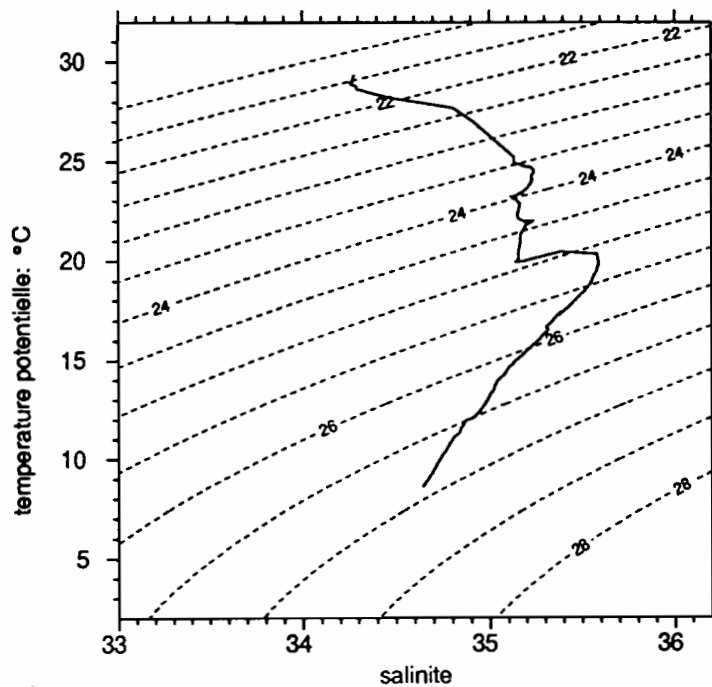
16/11/92, 1h53 TU

1°30 S 156°15 E

16/11/92, 11h53 locale



	P	T	S
debut	6.0	29.350	34.277
fin	504.0	8.646	34.643



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.116	34.271		
20.0	29.087	34.270		
30.0	29.069	34.269		
40.0	28.979	34.265		
50.0	28.928	34.259		
75.0	28.229	34.475		
100.0	24.625	35.237		
125.0	22.256	35.154		
150.0	20.136	35.156		
200.0	17.304	35.366		
250.0	12.849	34.976		
300.0	11.242	34.820		
400.0	9.835	34.719		
500.0	8.691	34.644		

# EQUALIS - station 48

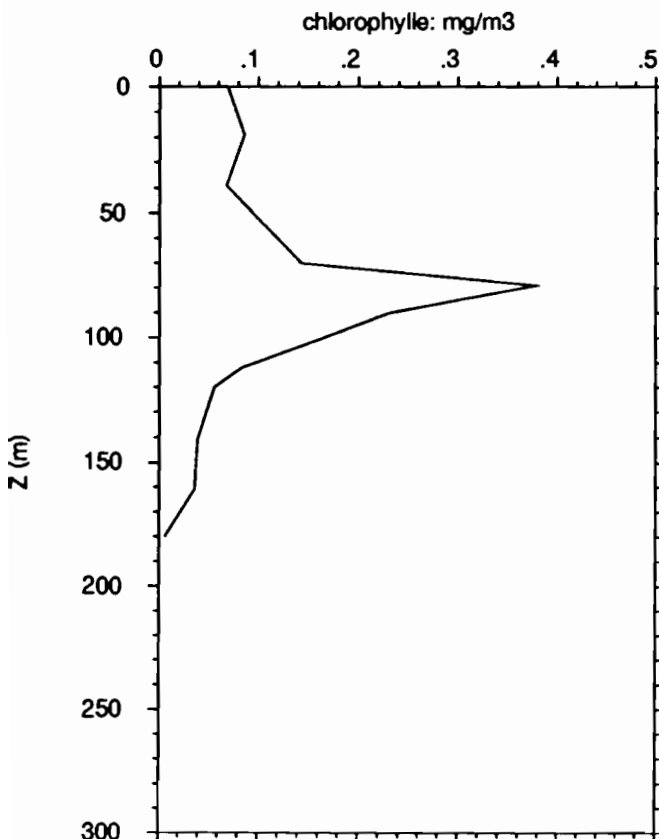
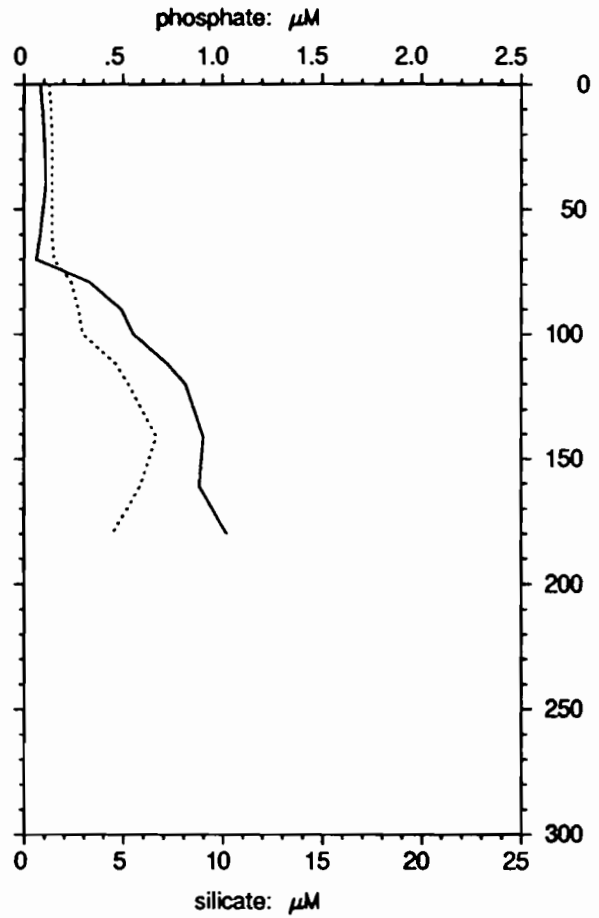
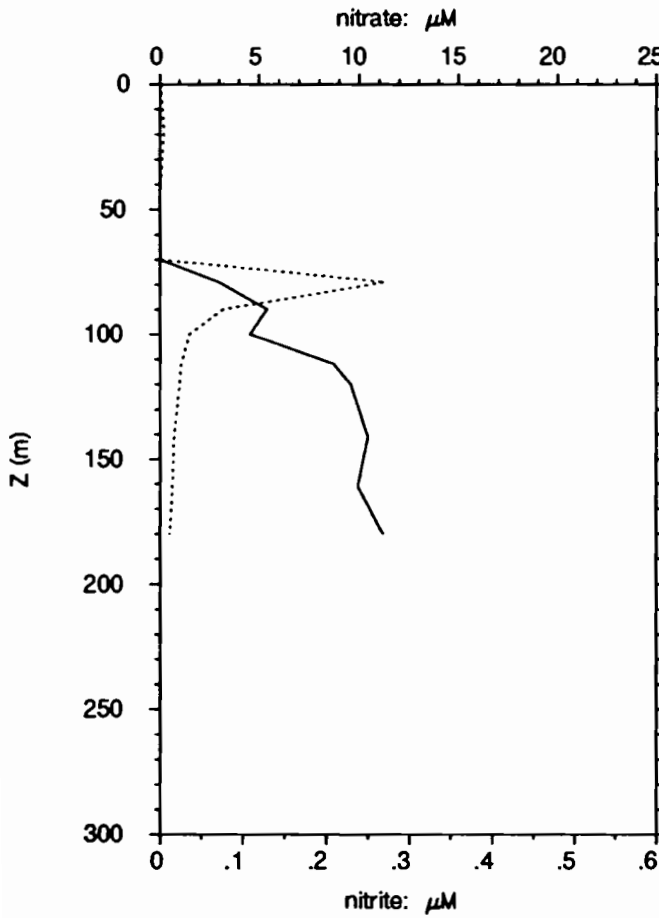
1° 30 S 156° 15 E

16/11/92, 1h53 TU

16/11/92, 11h53 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.003	0.001	0.08	1.2
19	0.000	0.005	0.10	1.4
39	0.003	0.001	0.11	1.4
60	0.002	0.000	0.08	1.4
70	0.001	0.001	0.06	1.5
79	2.99	0.271	0.33	2.4
90	5.40	0.077	0.49	2.7
100	4.56	0.036	0.55	3.0
112	8.71	0.026	0.72	4.6
120	9.57	0.024	0.81	5.2
141	10.43	0.017	0.90	6.7
161	9.92	0.015	0.88	5.8
180	11.16	0.012	1.02	4.5

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.60	34.31	0.069	0.026	27.13
19	29.09	34.21	0.086	0.068	44.16
39	28.96	34.15	0.068	0.049	41.83
60	28.59	34.14	0.119	0.069	36.81
70	28.32	33.66	0.143	0.119	45.53
79	25.11	34.88	0.378	0.397	51.22
90	24.75	34.95	0.232	0.273	54.10
100	24.35	34.45	0.165	0.227	57.90
112	23.26	34.70	0.084	0.148	63.69
120	22.53	34.44	0.056	0.102	64.54
141	20.57	34.82	0.039	0.076	66.09
161	20.31	34.74	0.036	0.032	47.42
180	18.38	35.46	0.006	0.035	84.78

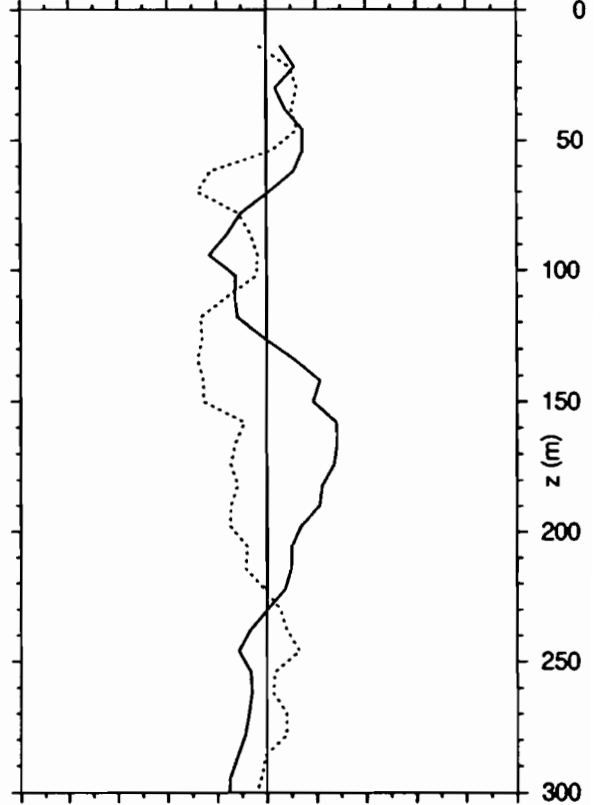
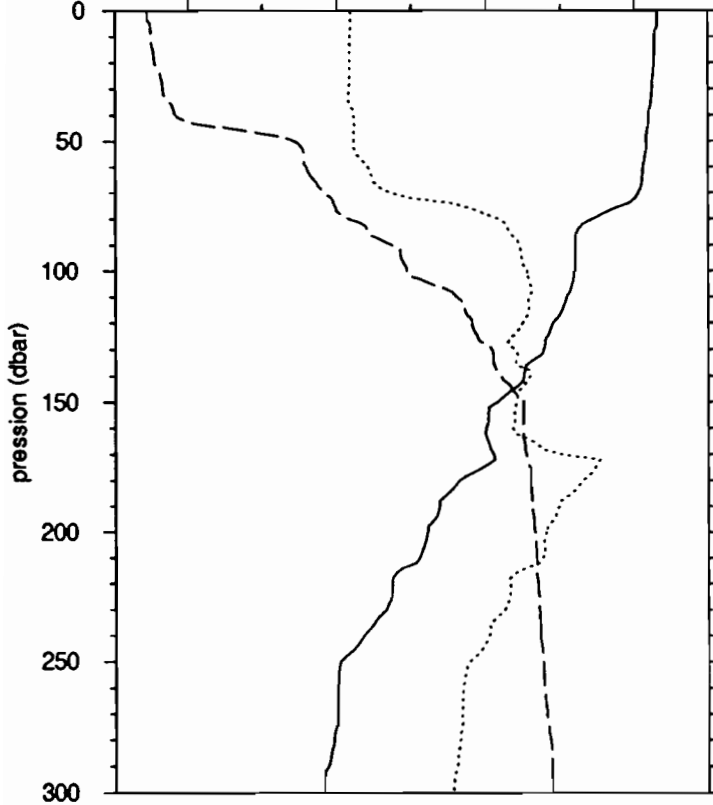
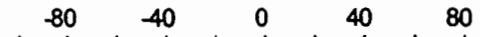


# EQUALIS -station 49

16/11/92, 4h 5 TU

1°30 S 156°15 E

16/11/92, 14h 5 locale

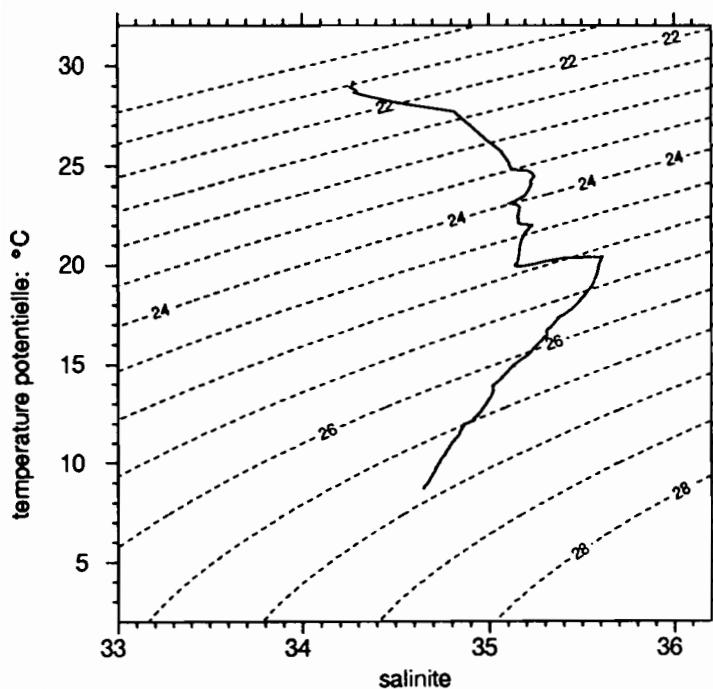


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.251	34.273
fin	500.0	8.744	34.649

	Z	U	V
debut	14.0	5.8	-2.9
fin	318.0	-7.3	12.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.118	34.271		
20.0	29.076	34.269	10.0	6.3
30.0	28.965	34.264	3.7	12.5
40.0	28.790	34.290	9.4	10.7
50.0	28.665	34.291	14.6	7.3
75.0	27.323	34.864	-6.0	-17.6
100.0	24.739	35.219	-15.2	-3.9
125.0	23.274	35.141	-2.4	-26.2
150.0	20.600	35.163	18.7	-25.5
200.0	16.845	35.322	12.8	-12.9
250.0	12.152	34.909	-8.9	8.2
300.0	11.261	34.821	-15.3	-4.3
400.0	10.224	34.743		
500.0	8.744	34.649		

# EQUALIS - station 49

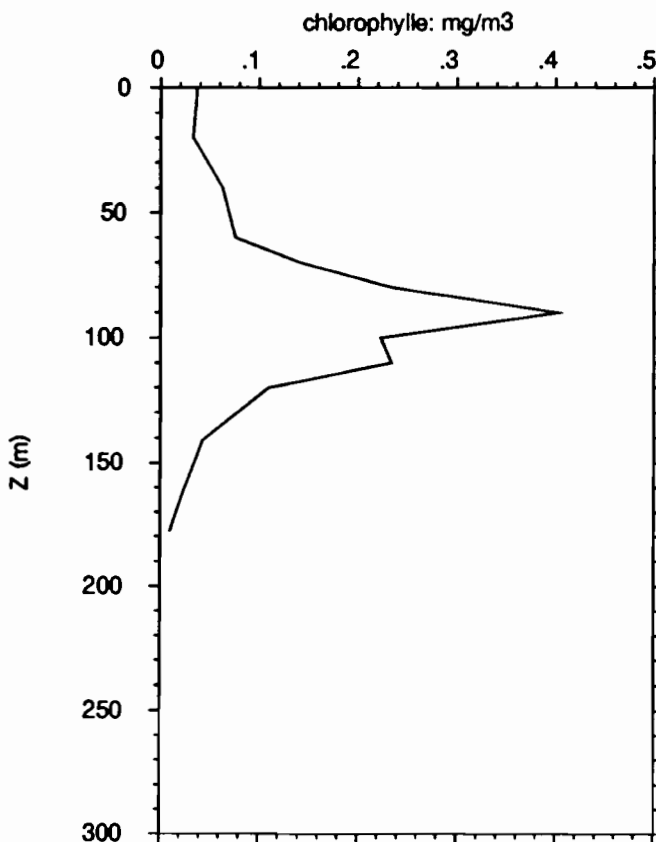
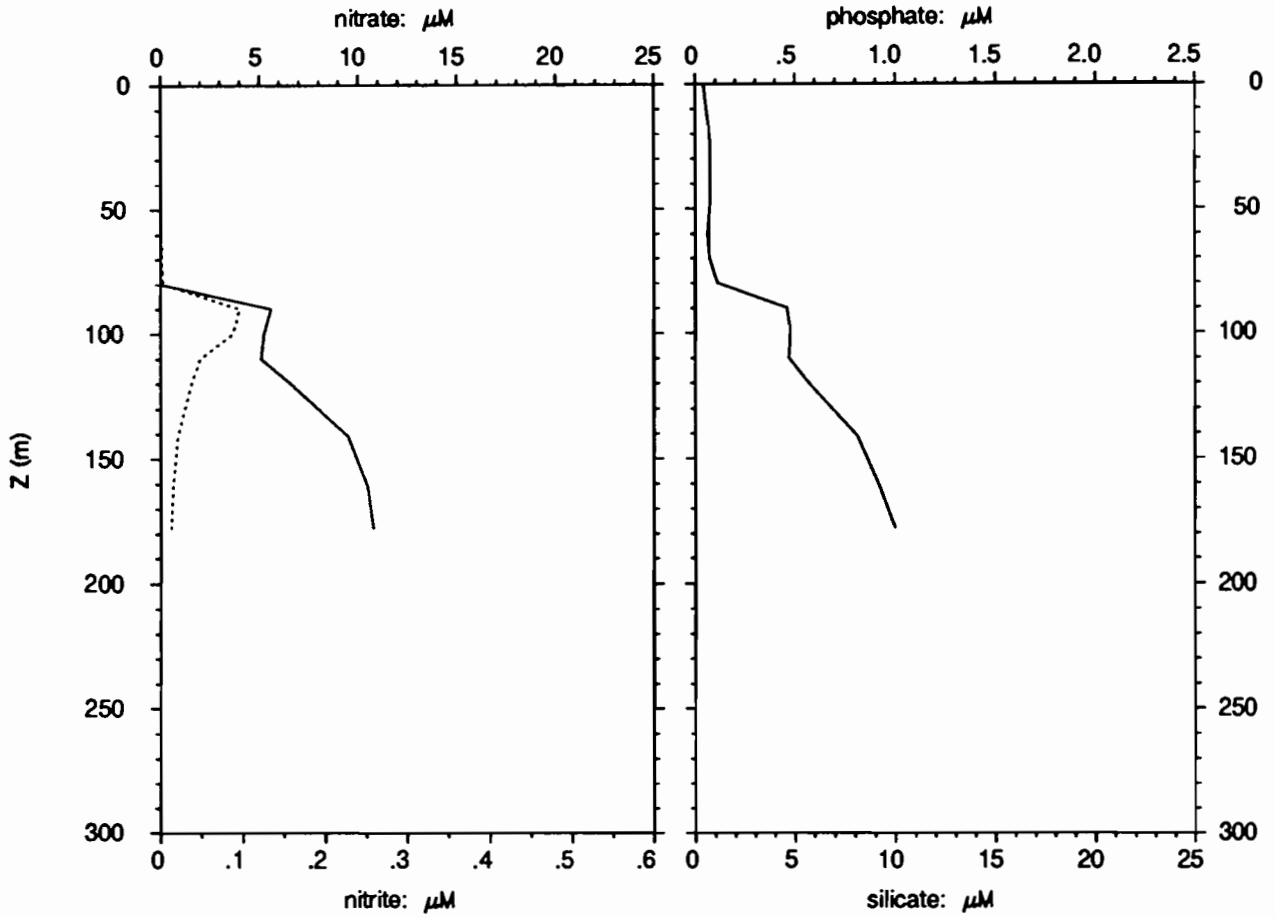
1°30 S 156°15 E

16/11/92, 4h 5 TU

16/11/92, 14h 5 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.001	0.04	
20	0.003	0.001	0.07	
40	0.003	0.001	0.08	
60	0.002	0.002	0.06	
70	0.004	0.002	0.07	
80	0.001	0.003	0.11	
90	5.59	0.096	0.46	
100	5.24	0.088	0.48	
110	5.09	0.048	0.47	
120	6.59	0.037	0.57	
141	9.49	0.021	0.81	
161	10.47	0.015	0.92	
178	10.77	0.013	1.00	

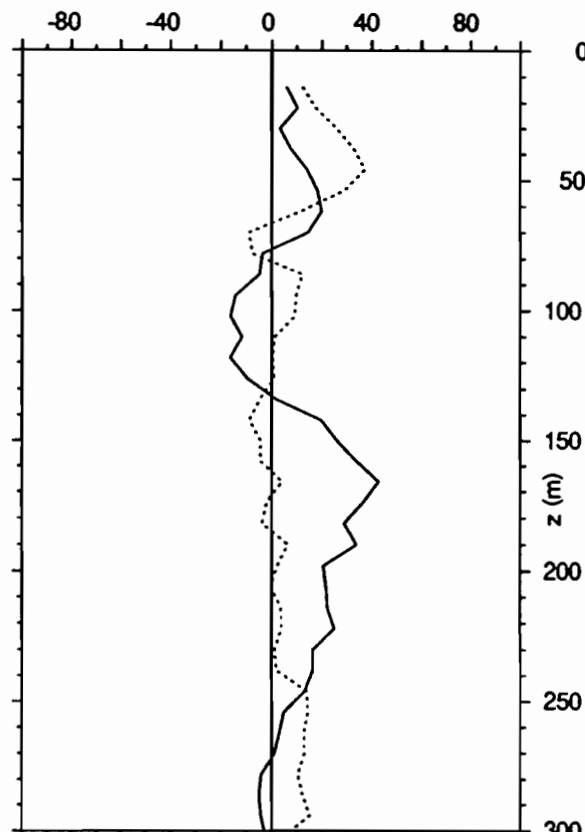
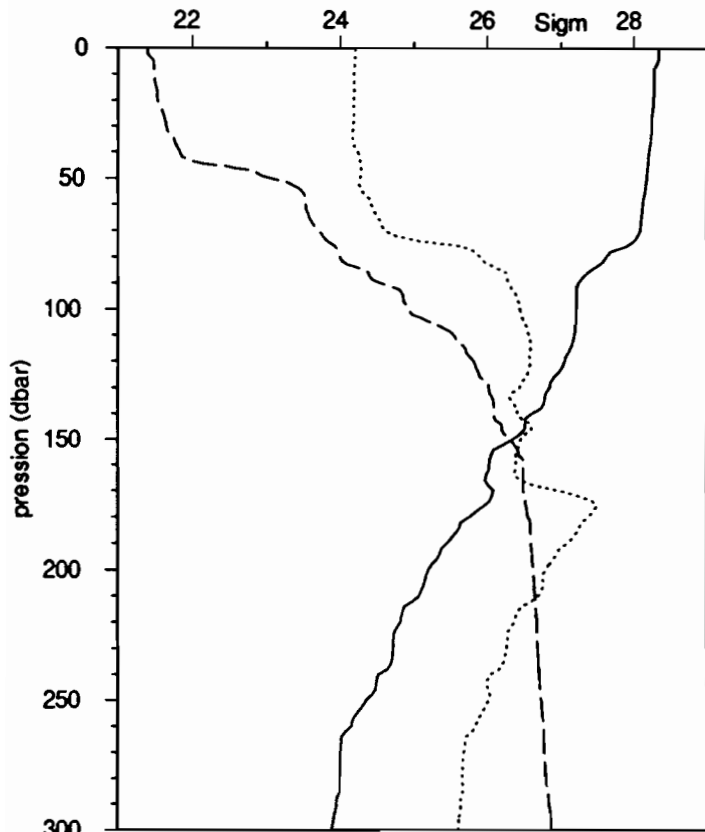
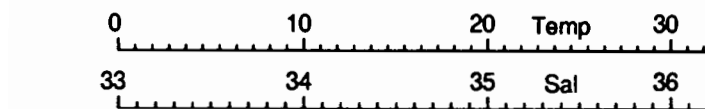
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.62	34.31	0.037	0.025	40.59
20	29.09	34.21	0.033	0.041	55.25
40	28.95	34.16	0.063	0.068	52.20
60	28.66	34.18	0.076	0.083	52.27
70	28.44	34.09	0.141	0.118	45.57
80	26.74	34.28	0.234	0.248	51.45
90	24.82	35.12	0.403	0.412	50.53
100	24.78	35.09	0.223	0.317	58.70
110	24.61	34.86	0.234	0.290	55.37
120	24.06	34.43	0.110	0.216	66.16
141	22.06	34.62	0.043	0.110	71.87
161	19.94	34.69	0.024	0.050	67.69
178	18.32	35.45	0.010	0.039	80.27

# EQUALIS -station 50

16/11/92, 7h 3 TU

1°30 S 156°15 E

16/11/92, 17h 3 locale

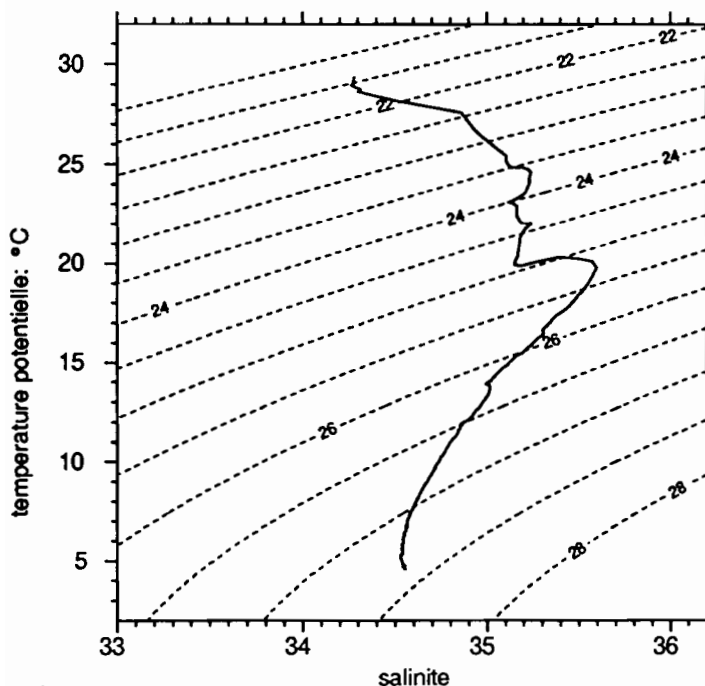


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.368	34.279
fin	998.0	4.660	34.549

	Z	U	V
debut	14.0	6.0	12.4
fin	366.0	-18.5	0.0



P	T	S	U	V
dbar	°C	S	cm/s	cm/s
10.0	29.125	34.274		
20.0	29.086	34.273	9.2	16.2
30.0	28.974	34.269	3.4	25.9
40.0	28.829	34.295	9.2	33.9
50.0	28.687	34.307	16.2	33.1
75.0	27.798	34.743	3.2	-8.1
100.0	24.849	35.178	-15.6	9.4
125.0	23.776	35.217	-10.3	0.9
150.0	21.383	35.183	26.1	-4.3
200.0	16.790	35.315	20.8	1.6
250.0	13.420	35.009	9.0	14.1
300.0	11.553	34.842	-2.9	7.7
400.0	10.347	34.753		
500.0	8.905	34.661		
600.0	6.860	34.558		
700.0	6.156	34.541		
800.0	5.684	34.535		
900.0	4.868	34.543		

# EQUALIS - station 50

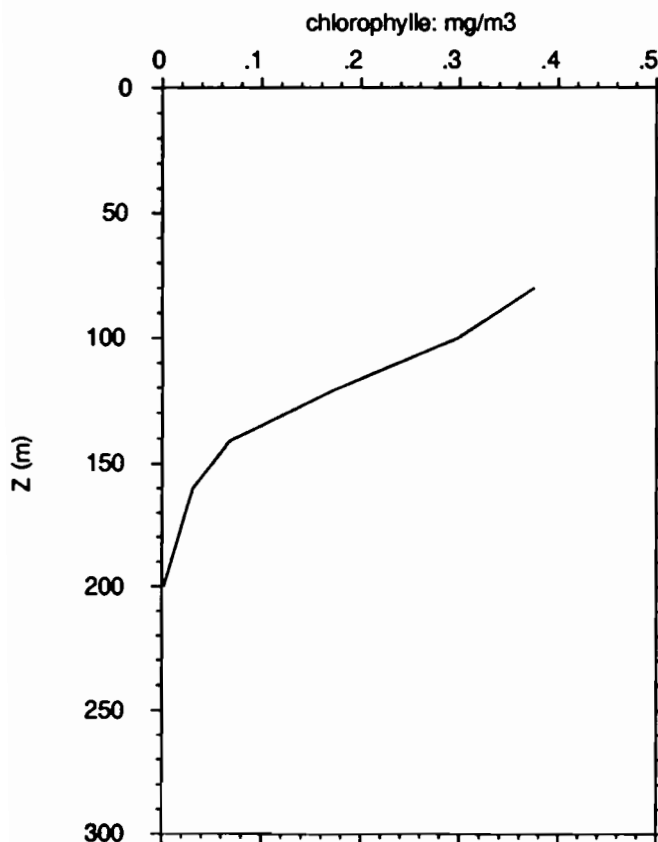
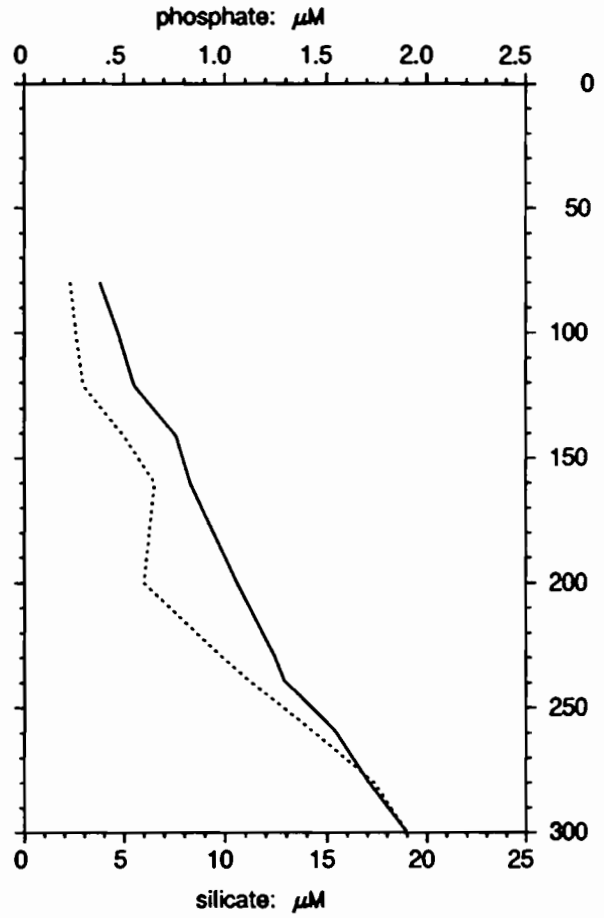
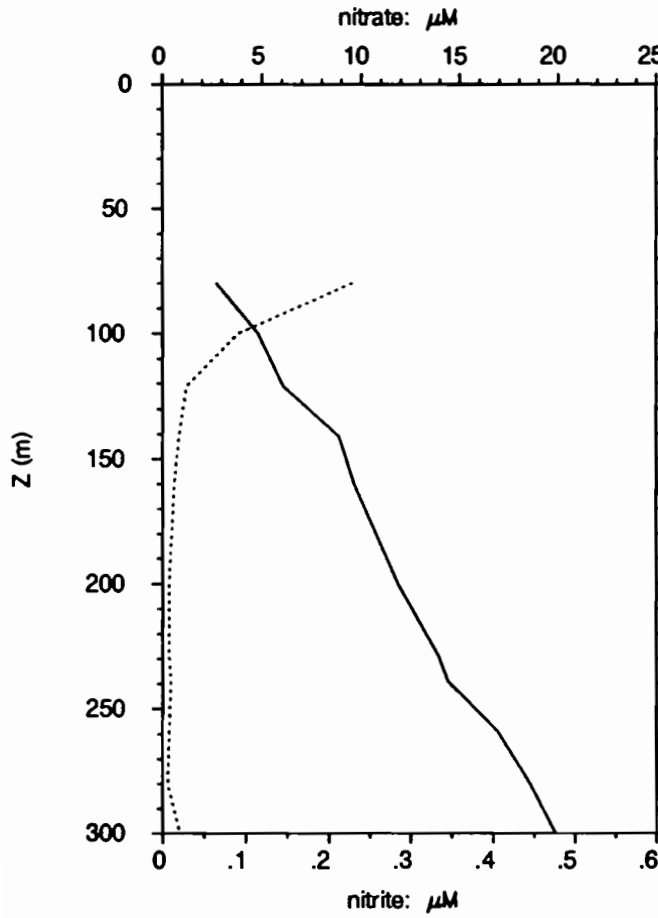
1°30 S 156°15 E

16/11/92, 7h 3 TU

16/11/92, 17h 3 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
80	2.72	0.229	0.38	2.3
100	4.79	0.091	0.47	2.6
121	6.05	0.029	0.55	2.9
141	8.86	0.020	0.76	5.0
160	9.62	0.014	0.83	6.5
200	11.85	0.008	1.06	6.0
229	13.92	0.008	1.24	9.8
239	14.38	0.010	1.29	11.2
259	16.90	0.008	1.54	14.3
280	18.55	0.006	1.71	17.4
300	19.83	0.021	1.90	19.0
1000	26.31	0.025	2.98	59.7

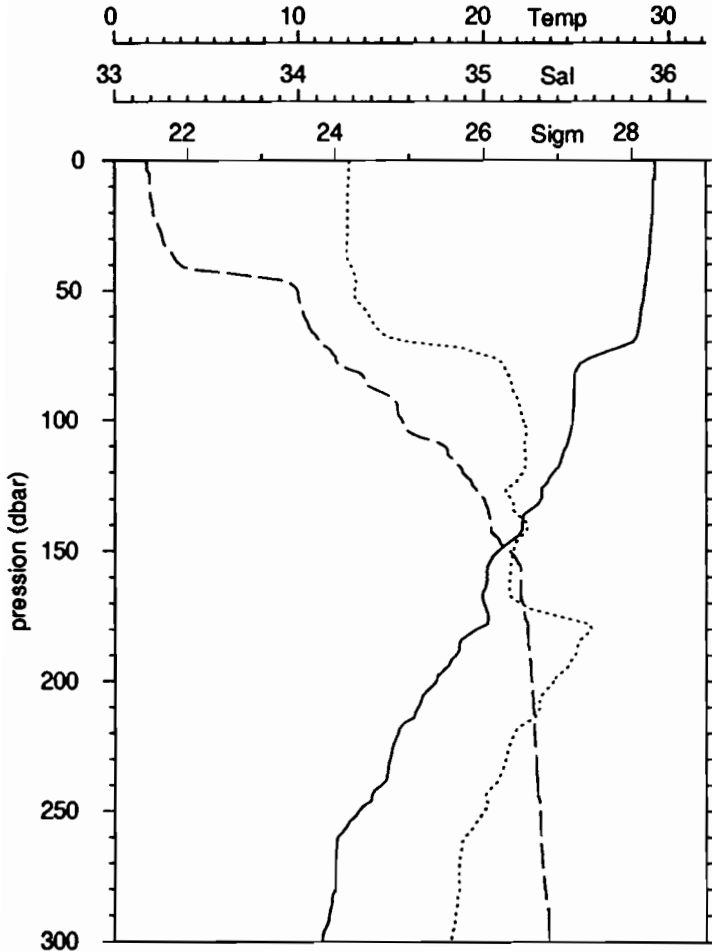
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
80	25.45	34.70	0.375	0.390	51.00
100	24.85	35.00	0.298	0.371	55.41
121	24.19	34.61	0.172	0.243	58.51
141	22.58	34.67	0.068	0.113	62.61
160	20.18	35.12	0.031	0.054	63.31
200	16.86	35.29	0.002	0.023	91.98
229	14.87	34.71			
239	14.22	34.41			
259	12.65	34.52			
280	12.00	34.73			
300	11.60	34.83			
1000	4.66	35.55			

# EQUALIS -station 51

16/11/92, 8h50 TU

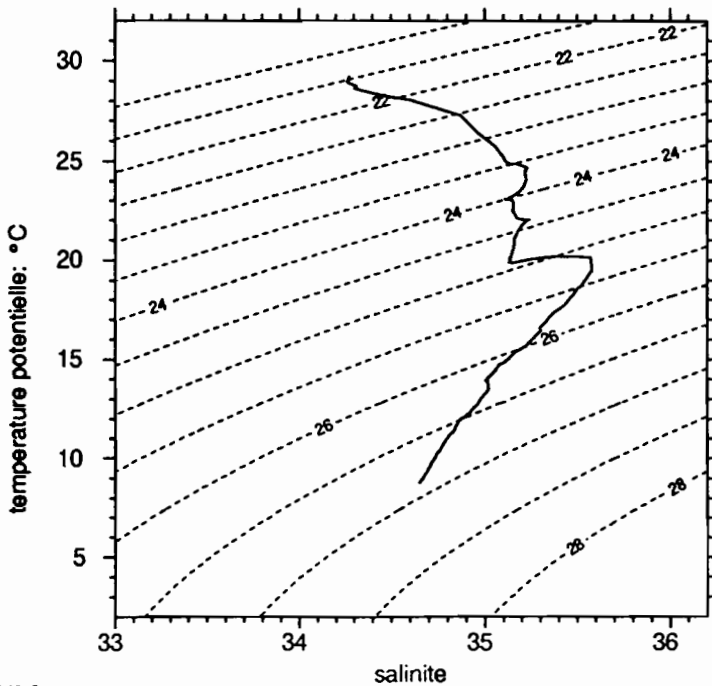
1°30 S 156°15 E

16/11/92, 18h50 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.237	34.274
fin	500.0	8.811	34.651



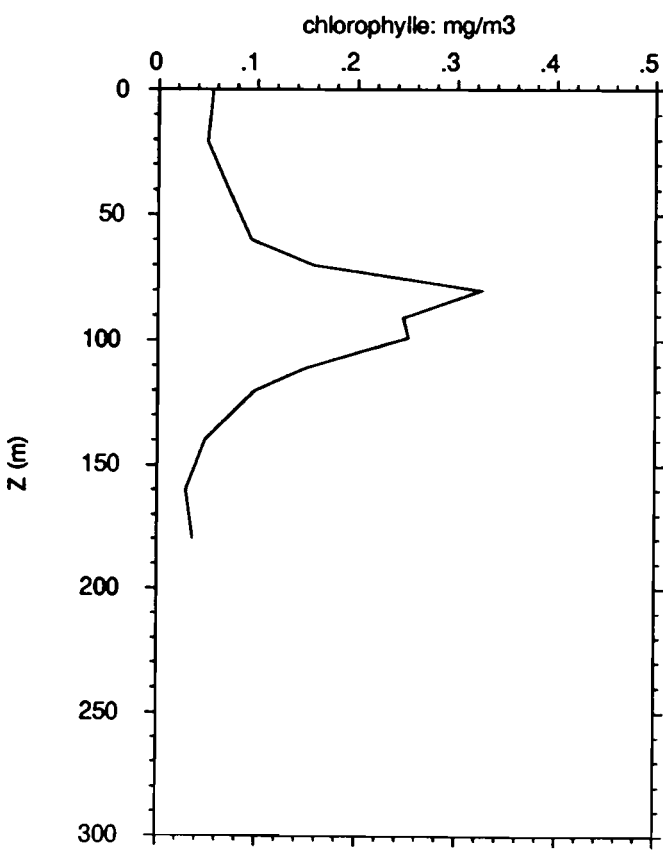
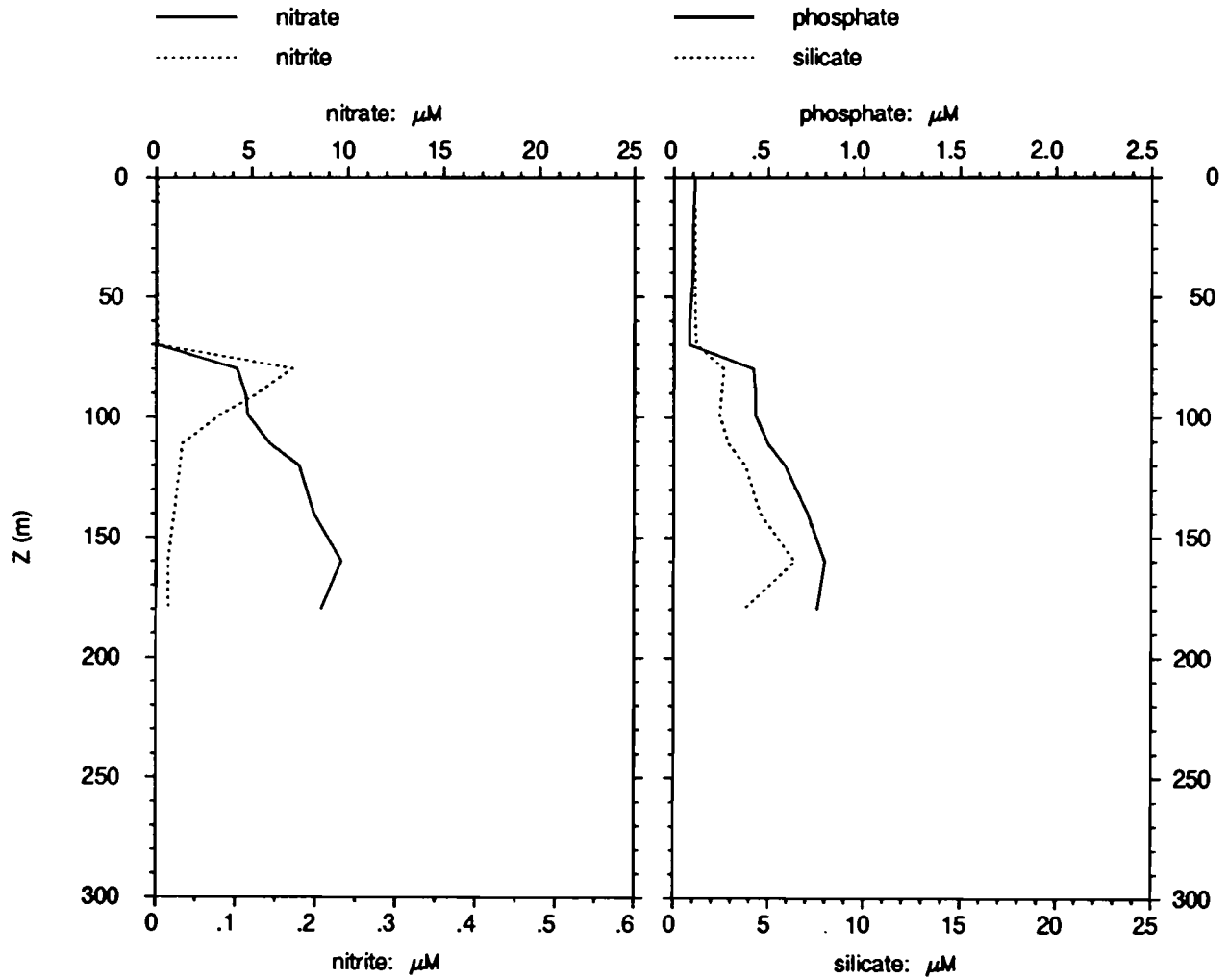
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.119	34.269		
20.0	29.090	34.268		
30.0	28.980	34.265		
40.0	28.845	34.284		
50.0	28.663	34.305		
75.0	26.127	35.007		
100.0	24.780	35.210		
125.0	23.234	35.143		
150.0	20.767	35.159		
200.0	17.447	35.378		
250.0	13.256	34.997		
300.0	11.285	34.822		
400.0	10.261	34.743		
500.0	8.811	34.651		

# EQUALIS - station 51

1°30 S 156°15 E

16/11/92, 8h50 TU

16/11/92, 18h50 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.002	0.002	0.11	1.1
21	0.001	0.001	0.10	1.1
40	0.000	0.001	0.10	1.1
60	0.001	0.002	0.08	1.1
70	0.001	0.002	0.08	1.2
80	4.23	0.171	0.42	2.6
91	4.70	0.123	0.43	2.5
99	4.79	0.081	0.43	2.4
111	5.94	0.033	0.50	2.9
120	7.47	0.030	0.59	3.8
140	8.24	0.023	0.71	4.6
160	9.66	0.015	0.80	6.4
180	8.61	0.016	0.76	3.7

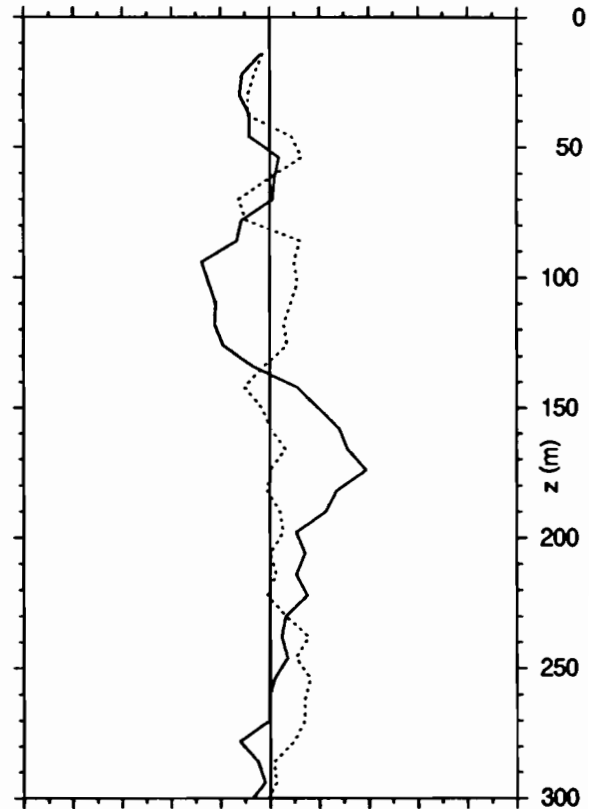
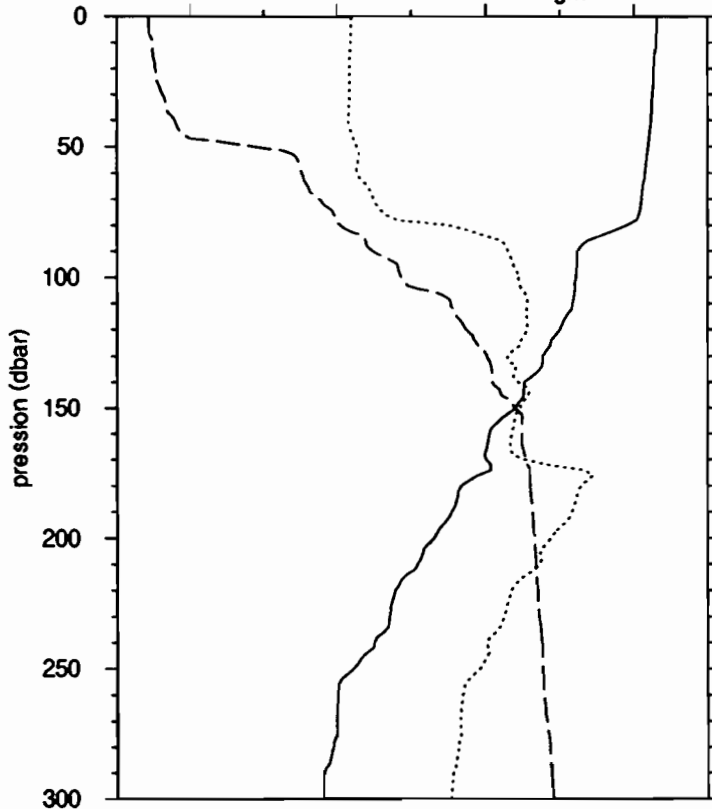
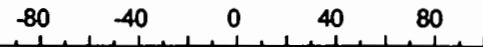
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.41	34.31	0.055	0.029	34.85
21	29.09	34.20	0.050	0.022	30.30
40	28.88	34.18	0.071	0.034	32.65
60	28.40	34.13	0.094	0.082	46.63
70	28.07	34.14	0.157	0.127	44.82
80	24.96	35.05	0.324	0.364	52.94
91	24.87	35.05	0.246	0.309	55.67
99	24.73	34.80	0.251	0.319	55.95
111	24.19	34.85	0.149	0.287	65.77
120	23.30	34.67	0.098	0.147	60.05
140	22.05	34.55	0.048	0.087	64.25
160	20.16	35.10	0.029	0.051	63.62
180	20.28	35.49	0.036	0.034	48.93

# EQUALIS -station 52

16/11/92, 10h 2 TU

1°30 S 156°15 E

16/11/92, 20h 2 locale

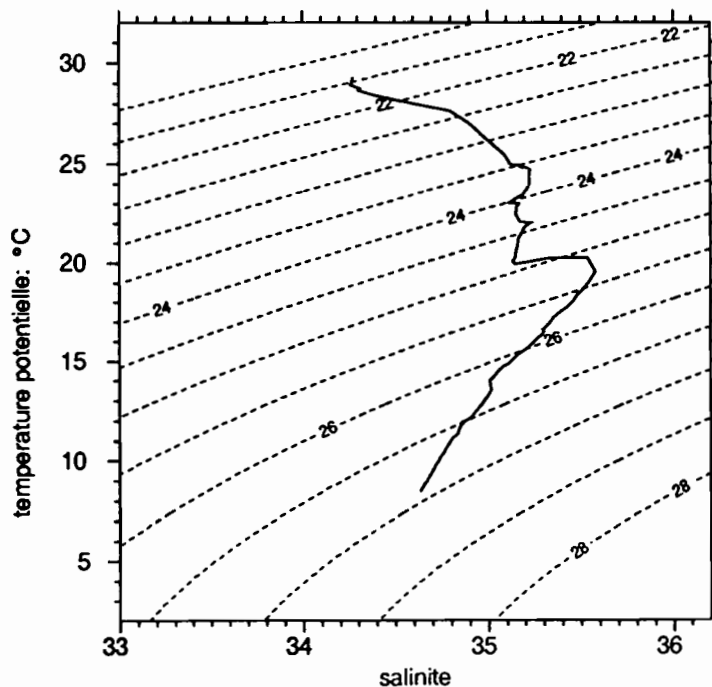


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.268	34.274
fin	506.0	8.524	34.634

	Z	U	V
debut	14.0	-3.4	-2.8
fin	326.0	1.9	8.8



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.248	34.273		
20.0	29.098	34.267	-9.2	-5.4
30.0	29.008	34.267	-12.2	-8.9
40.0	28.939	34.261	-8.1	-4.4
50.0	28.783	34.305	-2.2	10.9
75.0	28.311	34.447	-6.6	-10.7
100.0	24.884	35.177	-25.5	10.9
125.0	23.506	35.191	-19.2	6.8
150.0	21.600	35.186	19.7	-3.1
200.0	17.237	35.353	11.6	4.1
250.0	12.889	34.970	4.6	13.4
300.0	11.195	34.812	-7.0	-0.5
400.0	9.919	34.723		
500.0	8.574	34.639		

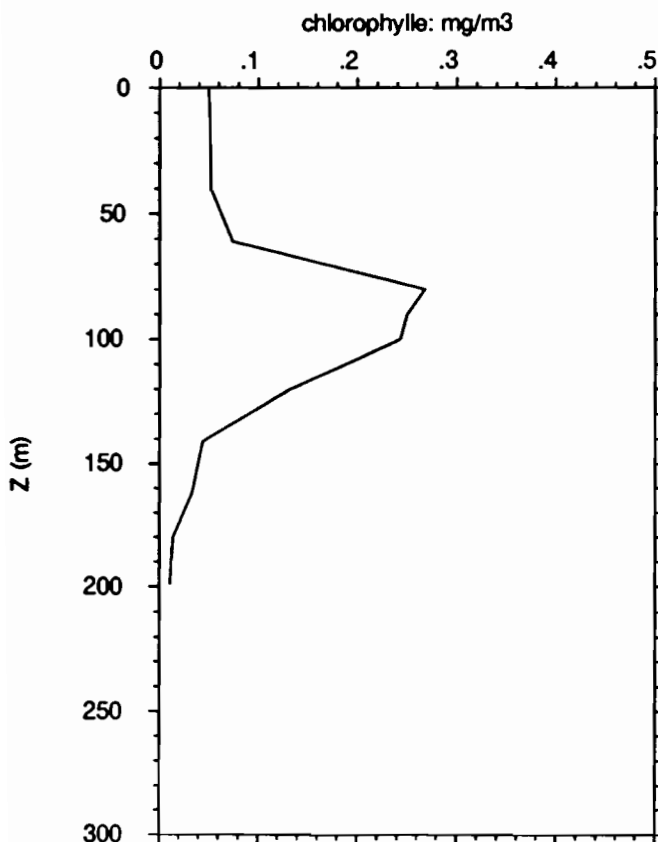
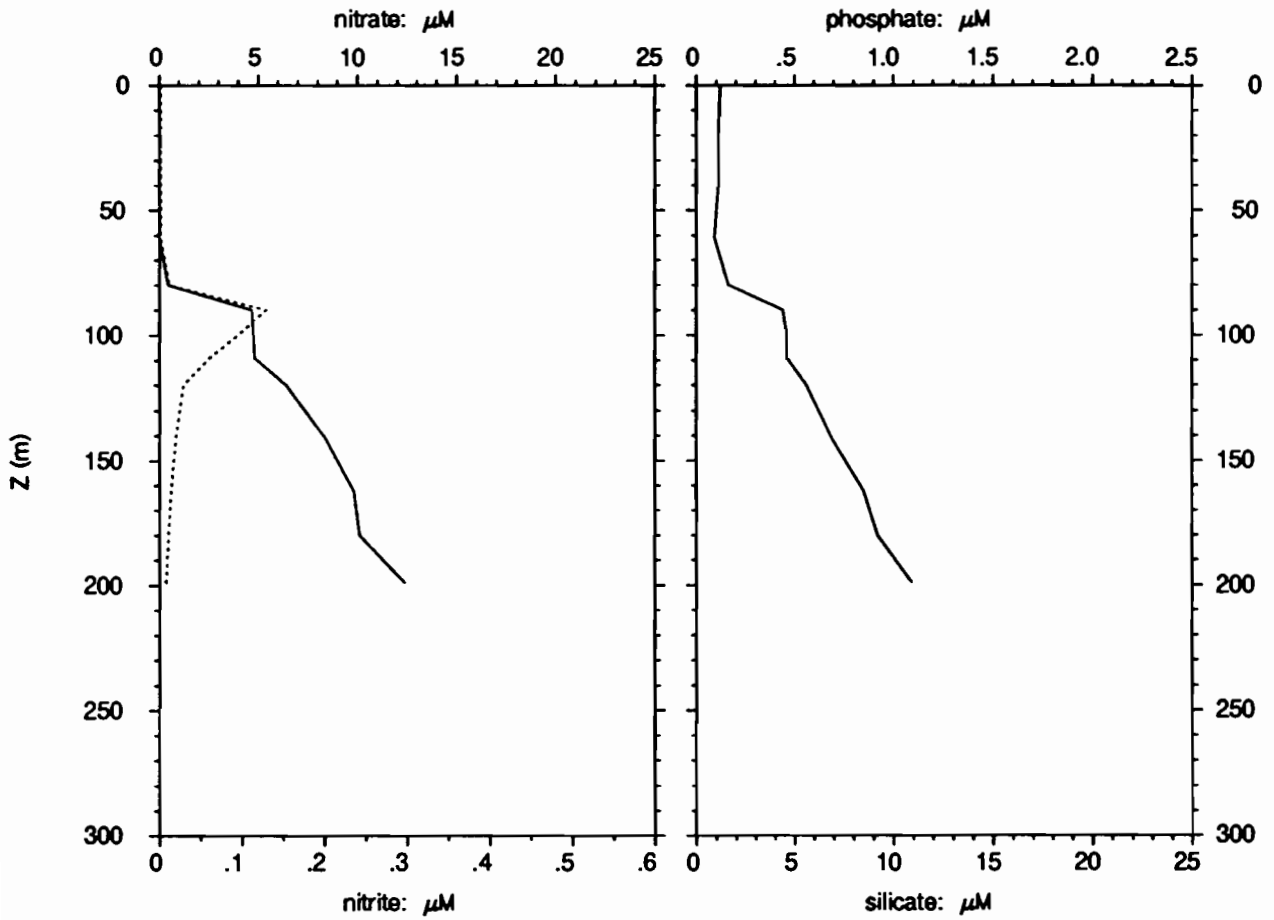
# EQUALIS - station 52

1°30 S 156°15 E

16/11/92, 10h 2 TU

16/11/92, 20h 2 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.002	0.12	
20	0.002	0.002	0.11	
40	0.001	0.002	0.11	
61	0.001	0.002	0.09	
80	0.438	0.012	0.16	
90	4.65	0.129	0.44	
100	4.76	0.095	0.46	
109	4.80	0.061	0.46	
120	6.41	0.029	0.56	
141	8.39	0.020	0.69	
162	9.81	0.014	0.85	
180	10.11	0.011	0.92	
199	12.37	0.008	1.09	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.38	34.31	0.050	0.006	10.81
20	29.09	34.26	0.052	0.024	31.45
40	28.93	34.24	0.052	0.041	44.20
61	28.56	34.22	0.074	0.068	47.82
80	27.03	33.91	0.268	0.275	50.63
90	25.01	35.07	0.250	0.328	56.75
100	24.88	34.09	0.243	0.298	55.07
109	24.70	34.89	0.194	0.260	57.36
120	23.92	34.69	0.132	0.193	59.34
141	22.07	34.82	0.044	0.071	61.72
162	20.18	34.77	0.033	0.034	50.59
180	18.50	34.80	0.014	0.021	59.81
199	16.56	35.26	0.011	0.012	52.43



# EQUALIS -station 53

16/11/92, 13h 0 TU

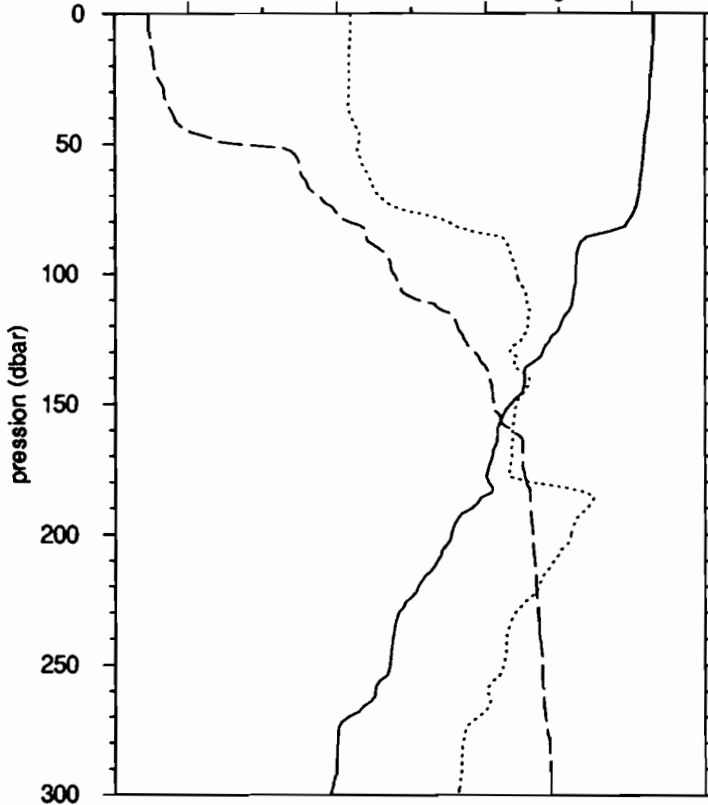
1° 30 S 156° 15 E

16/11/92, 23h 0 locale

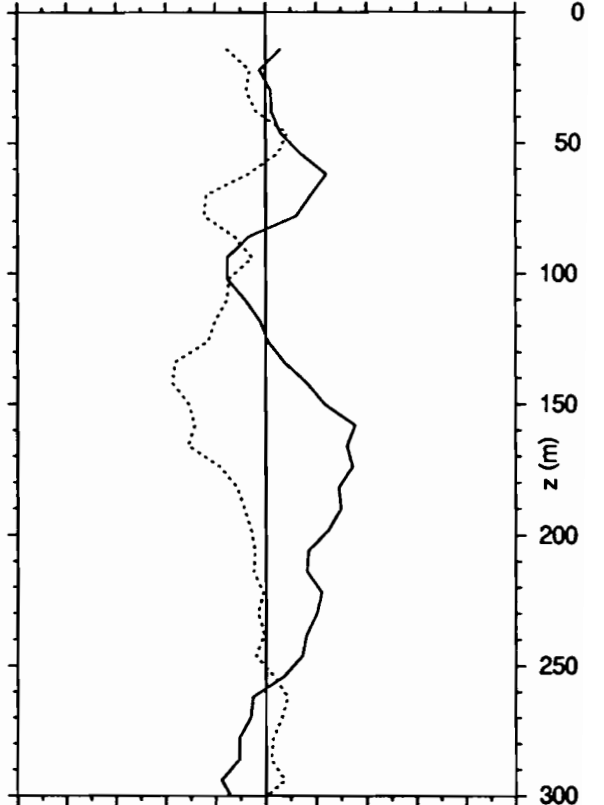
0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28



-80 -40 0 40 80

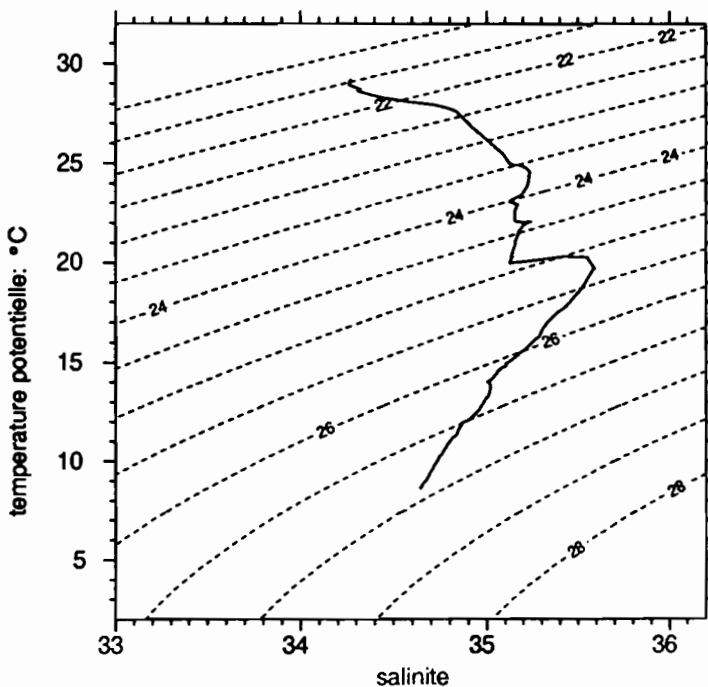


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.187	34.273
fin	502.0	8.663	34.643

	Z	U	V
debut	14.0	6.0	-15.5
fin	326.0	-13.7	-1.5



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.175	34.271		
20.0	29.079	34.265	-0.1	-8.6
30.0	28.974	34.264	2.2	-7.6
40.0	28.856	34.278	3.3	-0.6
50.0	28.664	34.316	9.8	6.8
75.0	28.171	34.532	14.4	-24.4
100.0	24.917	35.167	-15.3	-12.4
125.0	23.487	35.193	0.7	-22.6
150.0	21.340	35.166	23.4	-30.8
200.0	18.102	35.462	23.0	-5.4
250.0	14.810	35.094	11.0	-0.3
300.0	11.642	34.847	-14.1	0.6
400.0	10.153	34.739		
500.0	8.688	34.644		

# EQUALIS - station 53

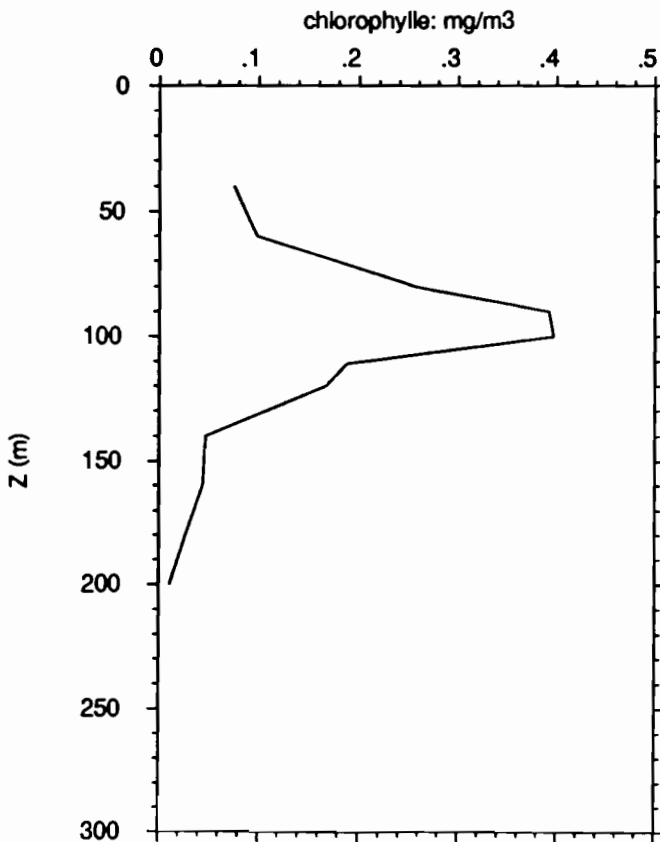
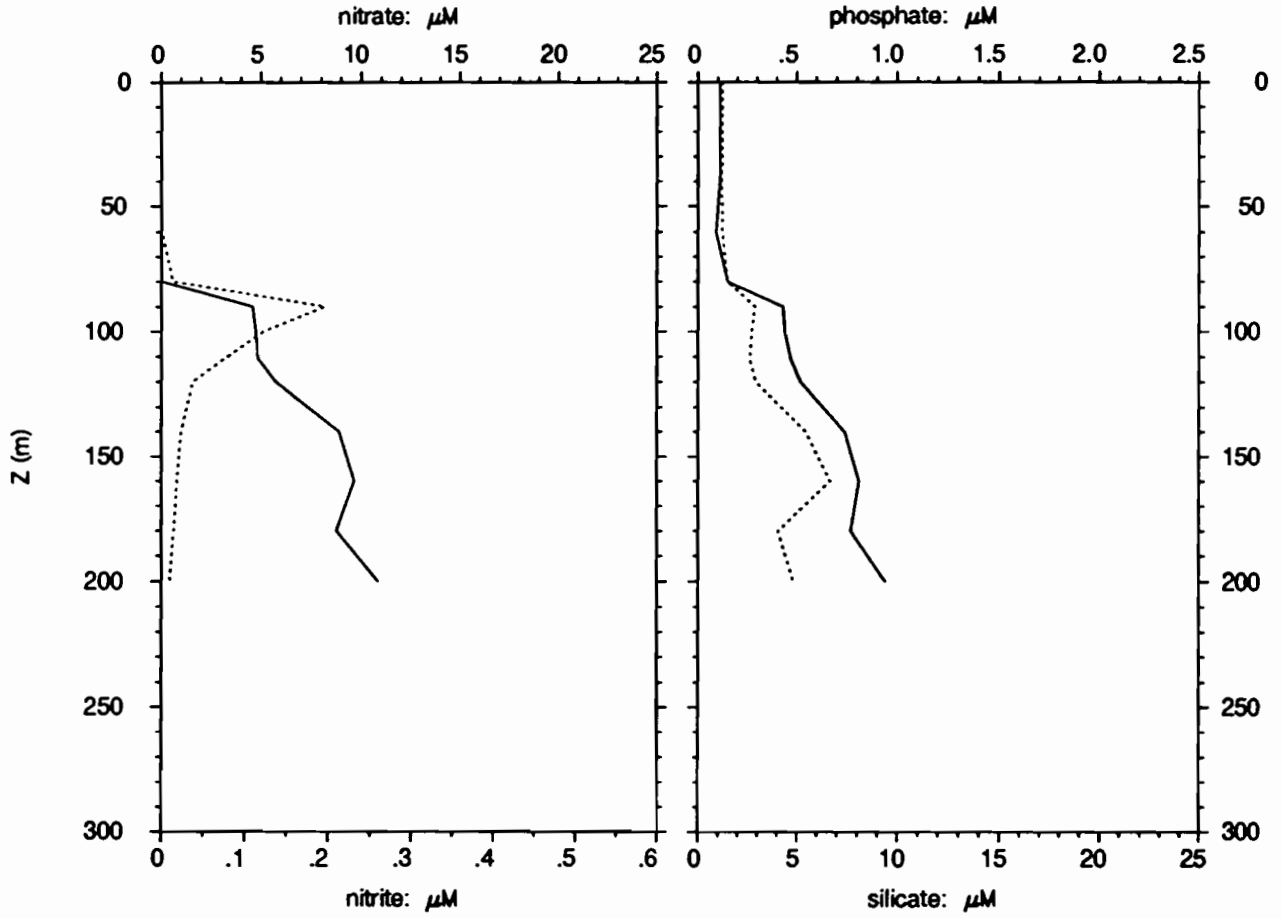
1°30 S 156°15 E

16/11/92, 13h 0 TU

16/11/92, 23h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.004	0.001	0.11	1.2
20	0.005	0.001	0.11	1.2
40	0.005	0.001	0.11	1.2
60	0.003	0.001	0.09	1.2
80	0.037	0.014	0.15	1.5
90	4.59	0.197	0.43	2.9
100	4.75	0.123	0.44	2.7
111	4.86	0.076	0.47	2.6
120	5.74	0.038	0.52	2.9
140	8.90	0.024	0.74	5.4
160	9.65	0.019	0.81	6.7
180	8.76	0.015	0.77	4.1
200	10.82	0.010	0.94	4.8

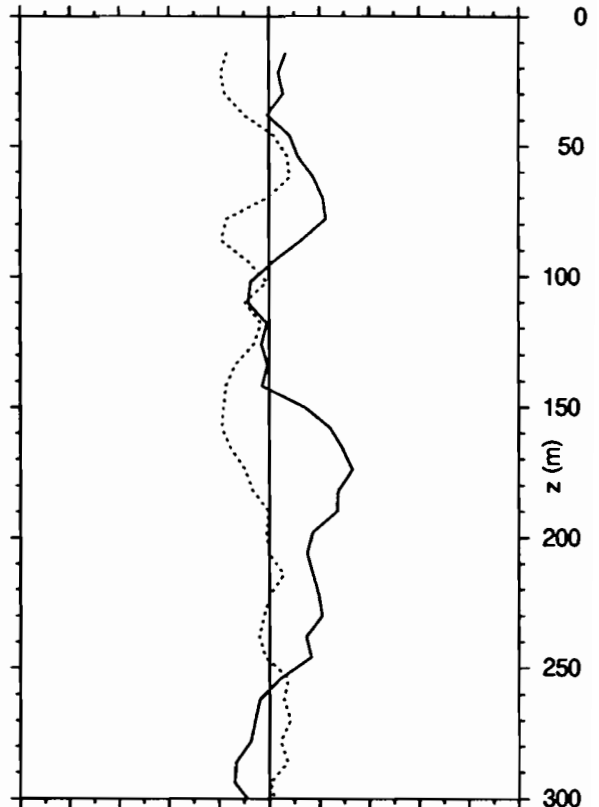
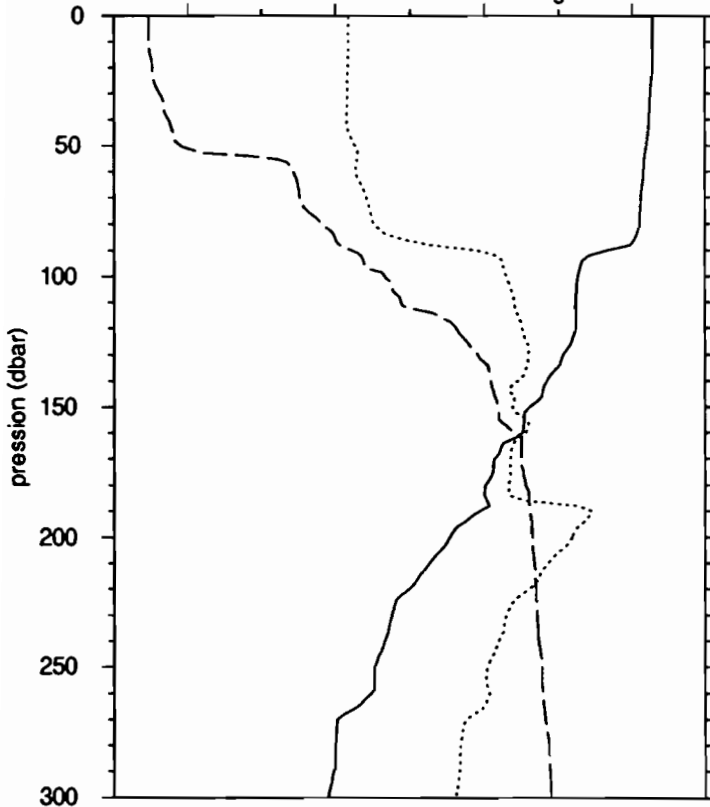
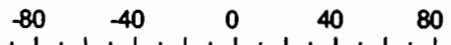
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.32	34.31	0.054	0.005	8.43
20	29.07	34.26			
40	28.84	34.27	0.075	0.050	40.19
60	28.53	34.24	0.098	0.073	42.65
80	27.47	33.80	0.256	0.213	45.46
90	25.06	35.04	0.392	0.388	49.76
100	24.93	35.09	0.397	0.384	49.18
111	24.79	34.98	0.188	0.247	56.77
120	24.25	34.50	0.167	0.227	57.57
140	22.22	34.63	0.047	0.092	66.40
160	20.64	35.12	0.044	0.085	65.61
180	20.34	35.55	0.027	0.037	57.46
200	17.68	35.38	0.011	0.026	70.97

# EQUALIS -station 54

16/11/92, 16h 4 TU

1°30 S 156°15 E

17/11/92, 2h 4 locale

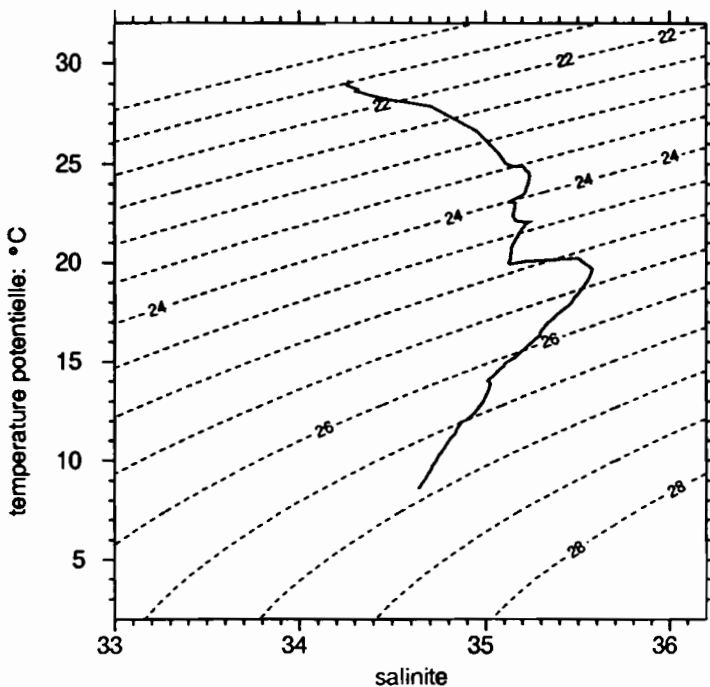


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.136	34.270
fin	500.0	8.627	34.641

	Z	U	V
debut	14.0	6.7	-16.8
fin	326.0	-15.7	1.0



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.139	34.269		
20.0	29.129	34.267	4.5	-18.7
30.0	29.003	34.264	5.6	-17.6
40.0	28.943	34.259	1.6	-7.0
50.0	28.788	34.304	9.9	4.6
75.0	28.444	34.385	22.1	-10.7
100.0	25.031	35.117	-5.0	-2.8
125.0	24.687	35.225	-2.7	-5.7
150.0	22.424	35.149	14.3	-18.2
200.0	18.102	35.470	16.7	-18.2
250.0	14.106	35.015	10.6	3.0
300.0	11.611	34.844	-8.7	2.0
400.0	10.201	34.742		
500.0	8.627	34.641		

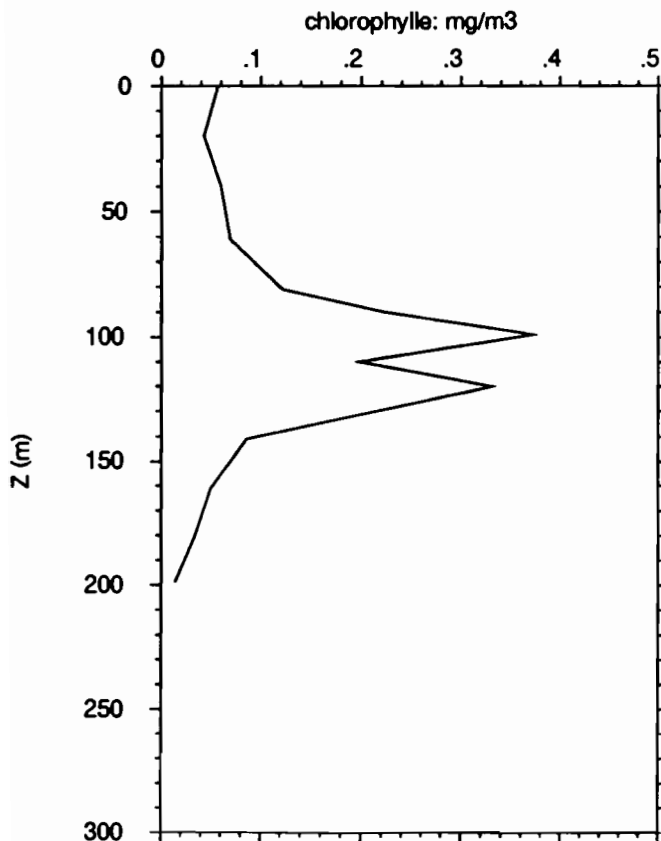
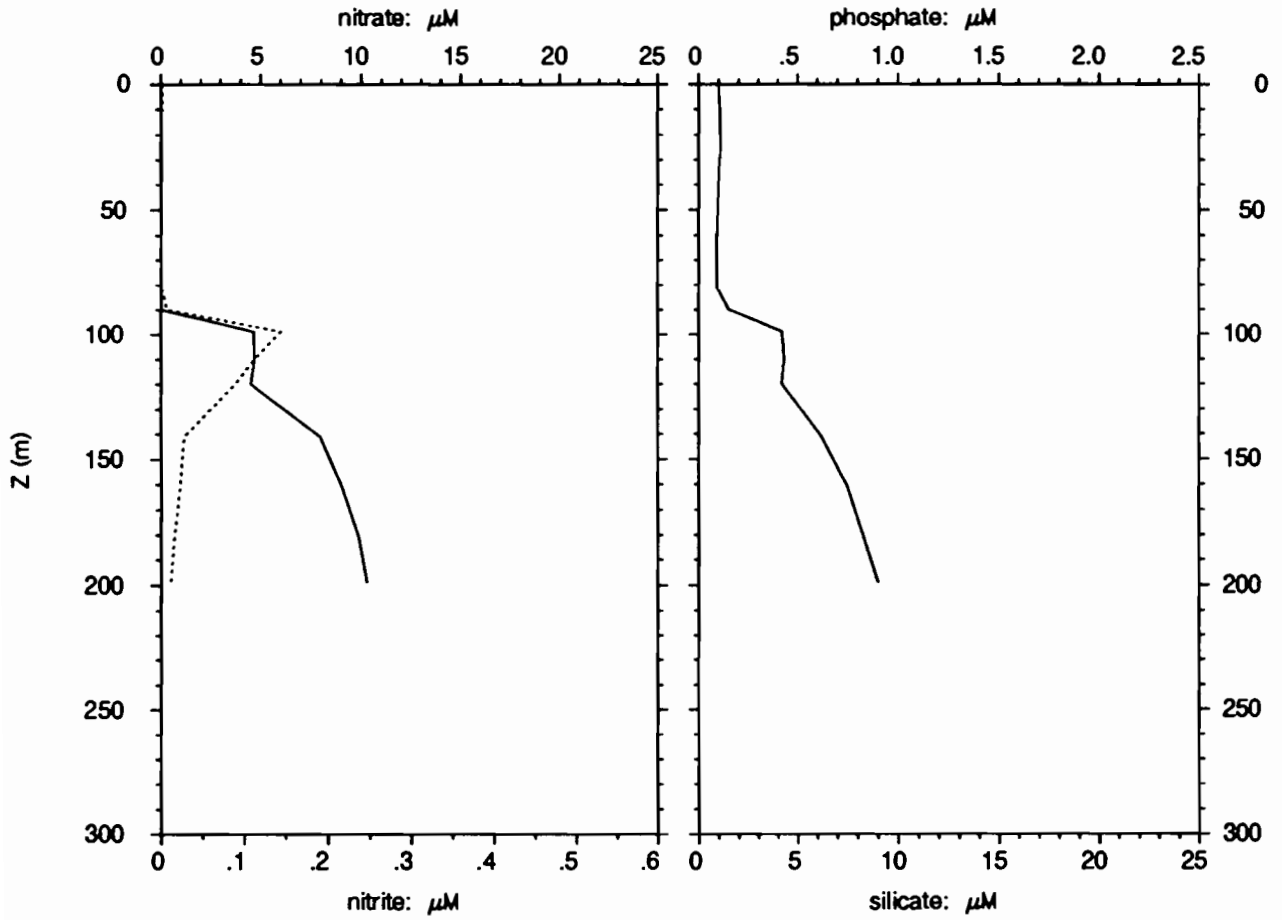
# EQUALIS - station 54

1° 30 S 156° 15 E

16/11/92, 16h 4 TU

17/11/92, 2h 4 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.002	0.10	
20	0.005	0.001	0.11	
40	0.005	0.001	0.10	
61	0.005	0.001	0.09	
81	0.005	0.001	0.09	
90	0.008	0.007	0.15	
99	4.63	0.144	0.42	
110	4.69	0.112	0.43	
120	4.51	0.089	0.42	
141	7.95	0.028	0.62	
161	9.05	0.023	0.75	
181	9.87	0.016	0.83	
199	10.27	0.012	0.90	

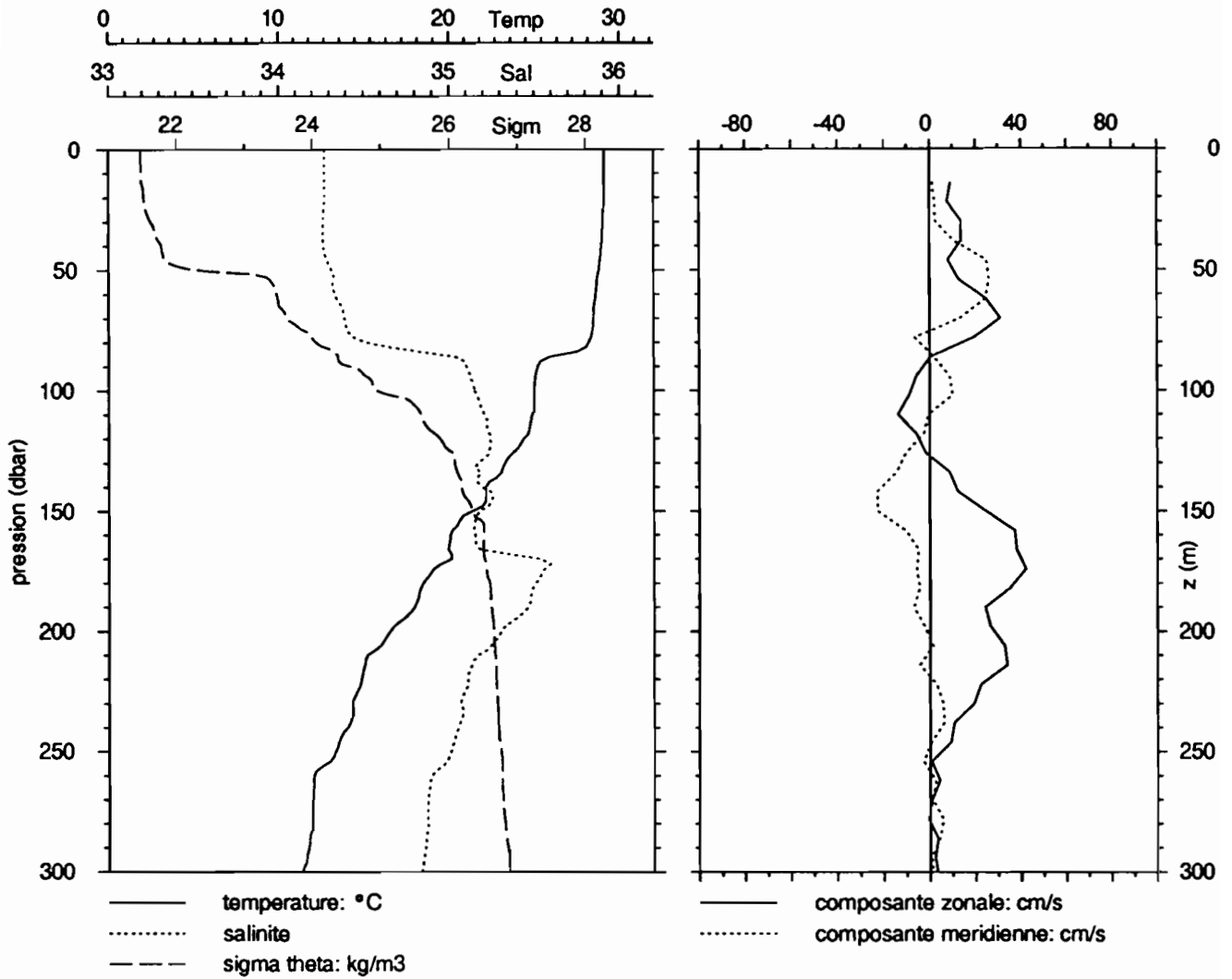
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	28.26	34.30	0.057	0.055	49.31
20	29.10	34.16	0.043	0.030	40.75
40	28.93	34.17	0.060	0.055	47.86
61	28.64	34.22	0.069	0.060	46.64
81	28.36	33.81	0.122	0.096	43.96
90	26.18	34.54	0.223	0.224	50.09
99	24.98	35.08	0.373	0.413	52.55
110	24.90	35.12	0.197	0.348	63.84
120	24.89	34.50	0.332	0.376	53.12
141	23.15	34.57	0.086	0.138	61.46
161	21.23	34.81	0.050	0.103	67.25
181	19.95	34.41	0.033	0.076	69.64
199	18.09	35.43	0.014	0.029	67.30

# EQUALIS -station 55

16/11/92, 19h17 TU

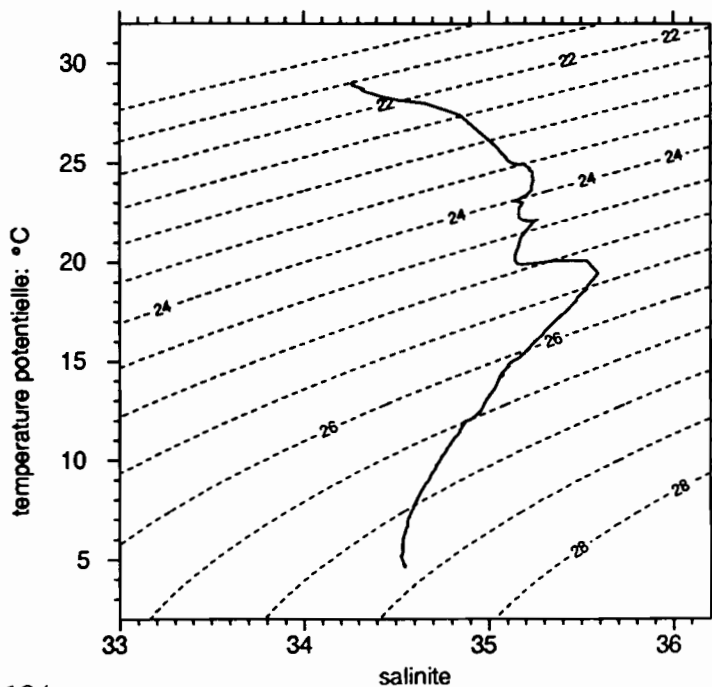
1°30 S 156°15 E

17/11/92, 5h17 locale



	P	T	S
debut	4.0	29.121	34.272
fin	998.0	4.674	34.549

	Z	U	V
debut	14.0	9.3	1.3
fin	390.0	15.9	10.0



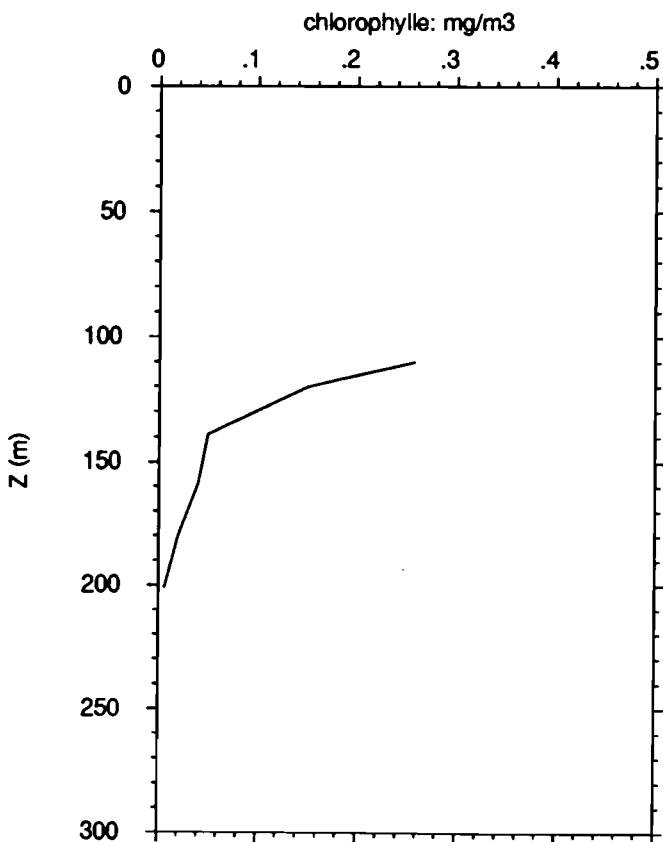
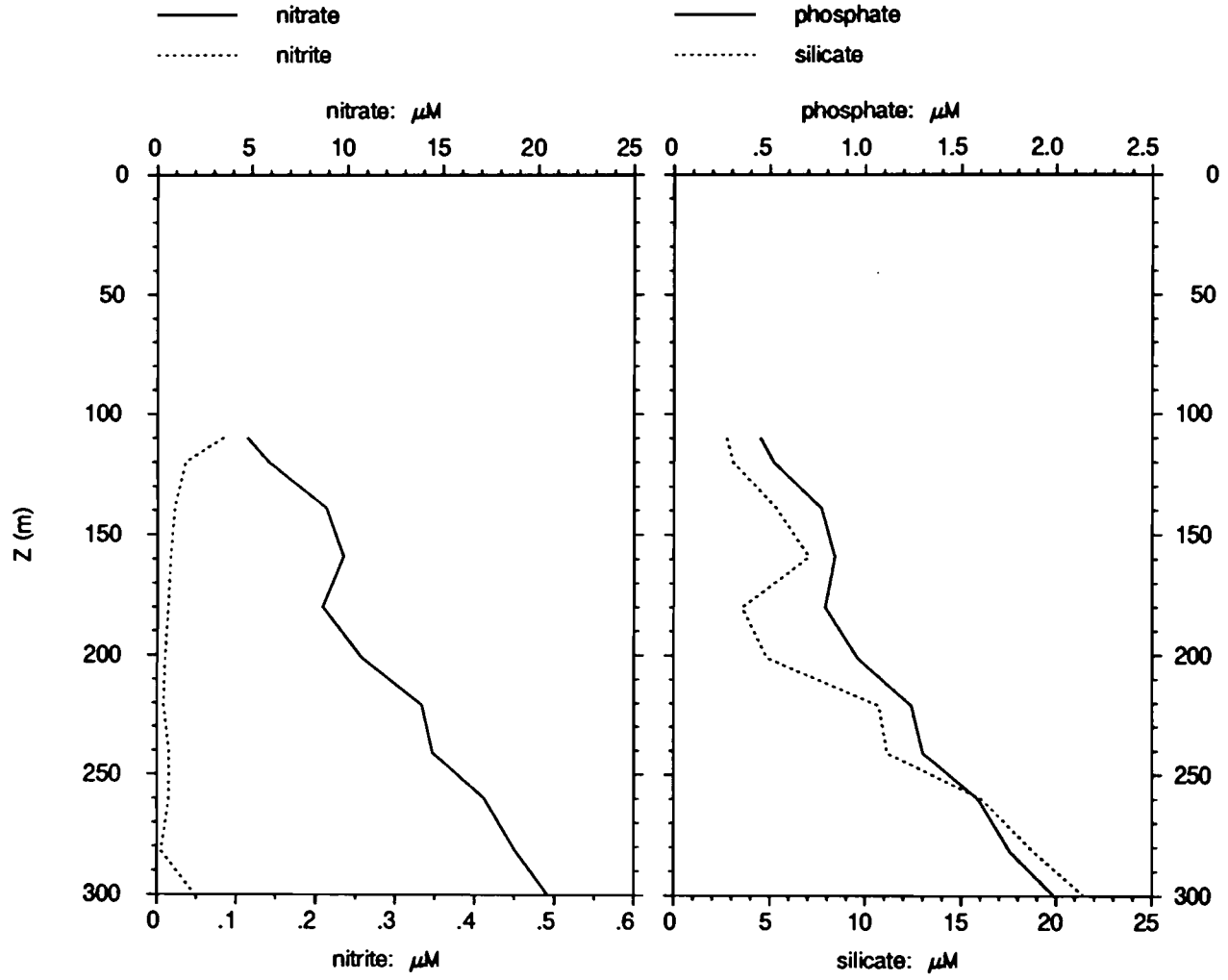
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.125	34.273		
20.0	29.122	34.273	8.2	2.0
30.0	29.000	34.264	14.0	2.6
40.0	28.935	34.264	12.4	14.1
50.0	28.784	34.312	10.4	25.5
75.0	28.412	34.409	23.8	1.0
100.0	24.969	35.148	-8.1	9.8
125.0	23.838	35.234	-2.1	-9.4
150.0	21.302	35.174	24.7	-22.7
200.0	16.530	35.301	28.1	-1.3
250.0	13.364	35.008	5.0	-1.0
300.0	11.375	34.837	3.3	1.4
400.0	10.277	34.749		
500.0	8.881	34.660		
600.0	6.825	34.562		
700.0	6.082	34.537		
800.0	5.700	34.535		
900.0	4.879	34.542		

# EQUALIS - station 55

1°30 S 156°15 E

16/11/92, 19h17 TU

17/11/92, 5h17 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
110	4.76	0.084	0.45	2.7
120	5.88	0.036	0.52	3.1
139	8.88	0.022	0.77	5.3
159	9.79	0.017	0.84	7.1
180	8.70	0.014	0.79	3.5
201	10.72	0.010	0.96	4.8
221	13.89	0.008	1.24	10.7
241	14.45	0.015	1.30	11.1
260	17.17	0.015	1.59	16.1
282	18.80	0.005	1.76	18.8
300	20.48	0.048	1.99	21.5
1000	26.47	0.050	3.02	64.0

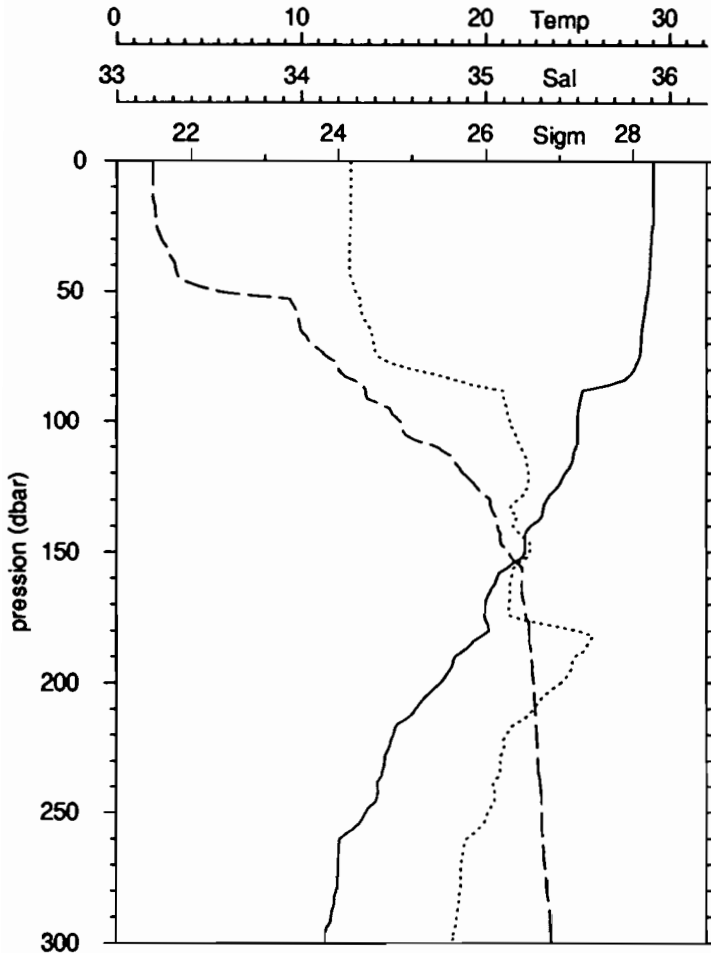
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
110	24.76	34.68	0.258	0.308	54.38
120	24.15	34.18	0.151	0.220	59.28
139	22.40	34.54	0.050	0.107	68.05
159	20.26	34.90	0.040	0.088	68.86
180	18.90	34.04	0.020	0.044	69.23
201	17.70	34.35	0.006	0.029	82.83
221	15.06	34.43			
241	14.25	33.74			
260	12.25	34.65			
282	11.96	34.63			
300	11.36	34.81			
1000	4.67	34.55			

# EQUALIS -station 57

16/11/92, 20h20 TU

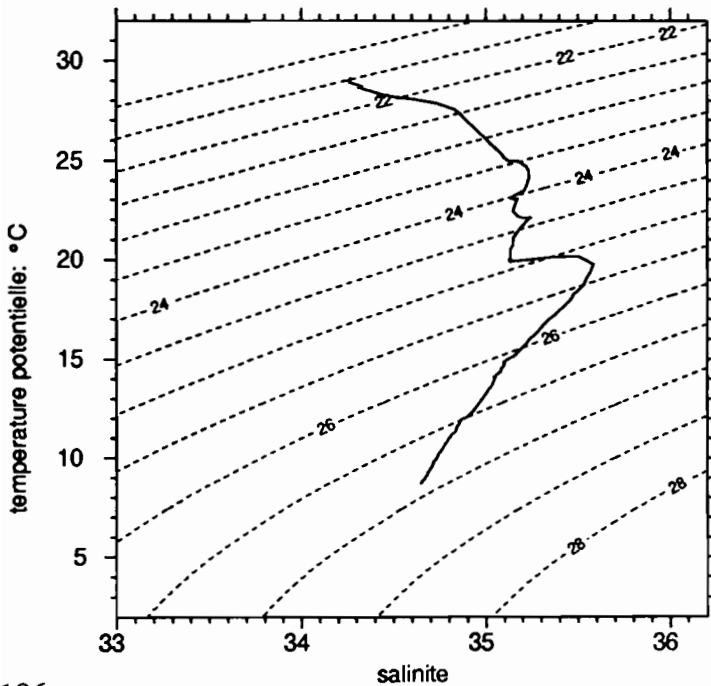
1°30 S 156°15 E

17/11/92, 6h20 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.110	34.268
fin	500.0	8.746	34.647



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.109	34.268		
20.0	29.109	34.267		
30.0	29.003	34.261		
40.0	28.944	34.259		
50.0	28.825	34.293		
75.0	28.364	34.421		
100.0	24.982	35.133		
125.0	23.902	35.226		
150.0	22.109	35.238		
200.0	17.576	35.411		
250.0	13.503	35.014		
300.0	11.270	34.821		
400.0	10.000	34.729		
500.0	8.746	34.647		

# EQUALIS - station 57

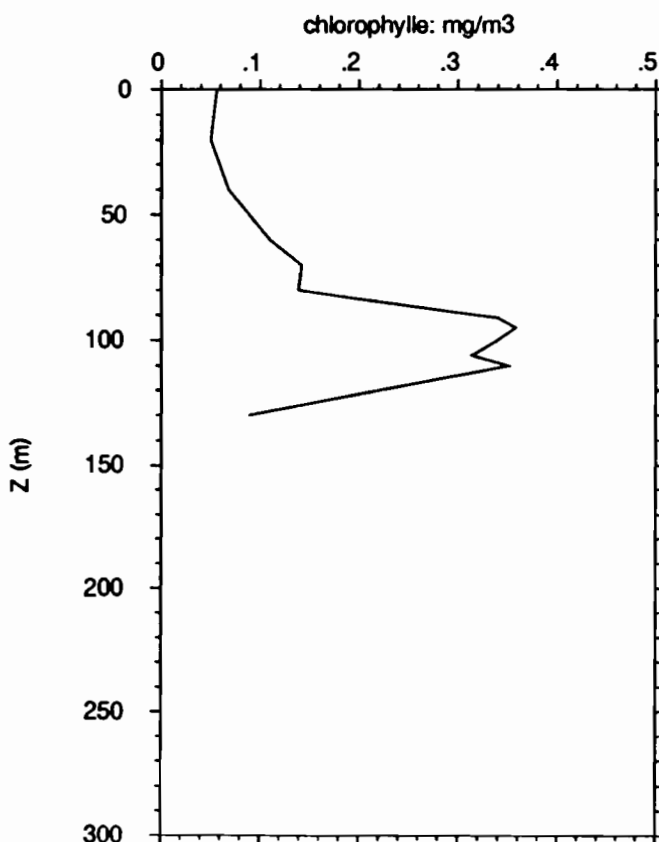
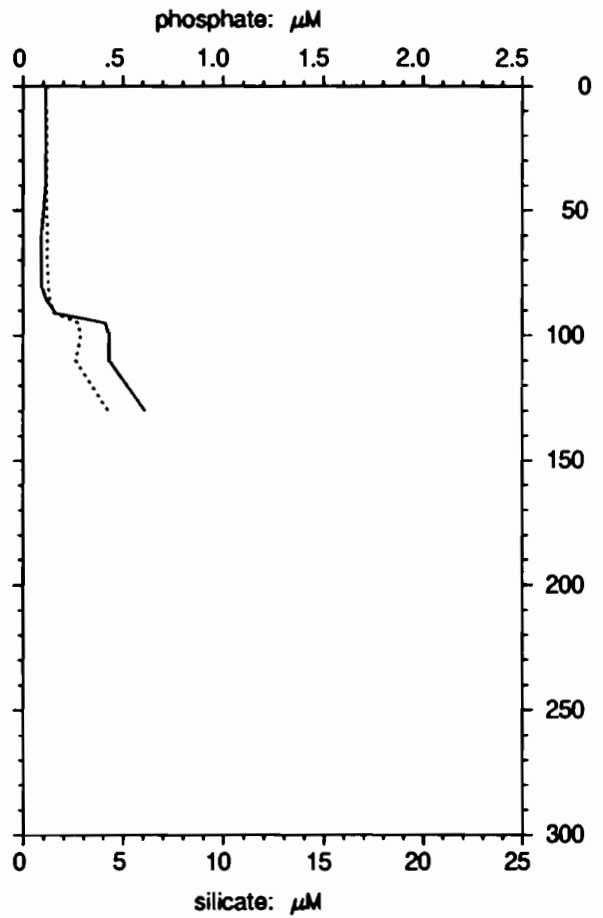
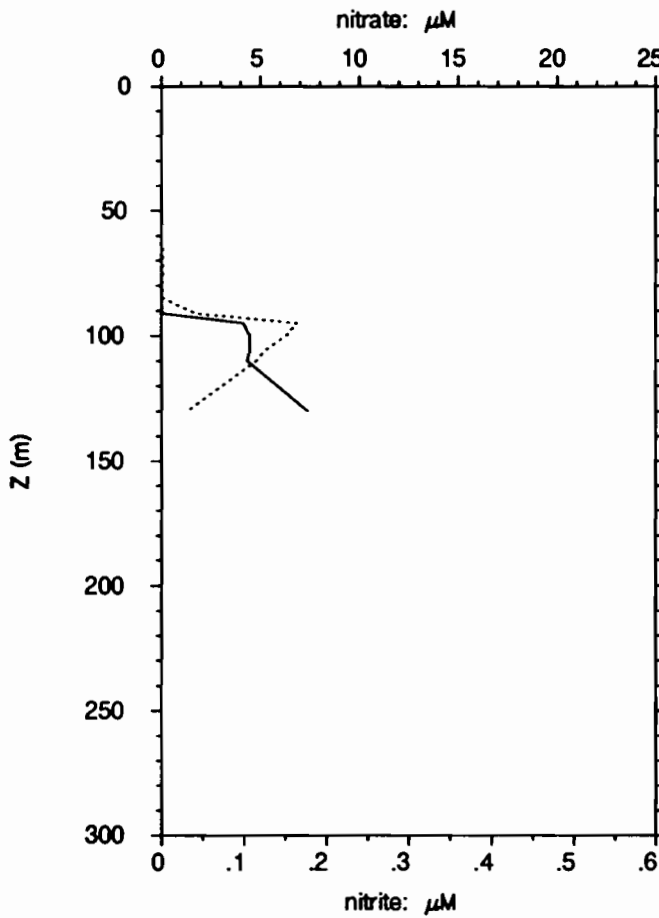
1°30 S 156°15 E

16/11/92, 20h20 TU

17/11/92, 6h20 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.005	0.001	0.11	1.2
20	0.004	0.001	0.11	1.2
40	0.005	0.001	0.11	1.2
60	0.005	0.001	0.09	1.2
70	0.003	0.002	0.09	1.2
80	0.005	0.001	0.09	1.2
85	0.004	0.002	0.11	1.3
91	0.053	0.041	0.16	1.5
95	4.15	0.164	0.41	2.8
100	4.44	0.151	0.43	2.9
106	4.45	0.125	0.43	2.7
110	4.33	0.115	0.43	2.6
130	7.40	0.031	0.61	4.3

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.23	34.30	0.056	0.038	40.28
20	29.11	34.21	0.050	0.049	49.63
40	28.94	34.15	0.068	0.084	55.38
60	28.55	34.30	0.110	0.097	46.68
70	28.47	34.32	0.142	0.119	45.68
80	28.32	34.29	0.139	0.167	54.56
85	28.05	34.24			
91	25.92	34.79	0.339	0.320	48.57
95	25.15	35.01	0.358	0.365	50.52
100	25.03	35.06	0.339	0.438	56.35
106	24.98	35.07	0.314	0.349	52.61
110	24.94	34.02	0.351	0.391	52.75
130	23.31	35.14	0.089	0.130	59.24

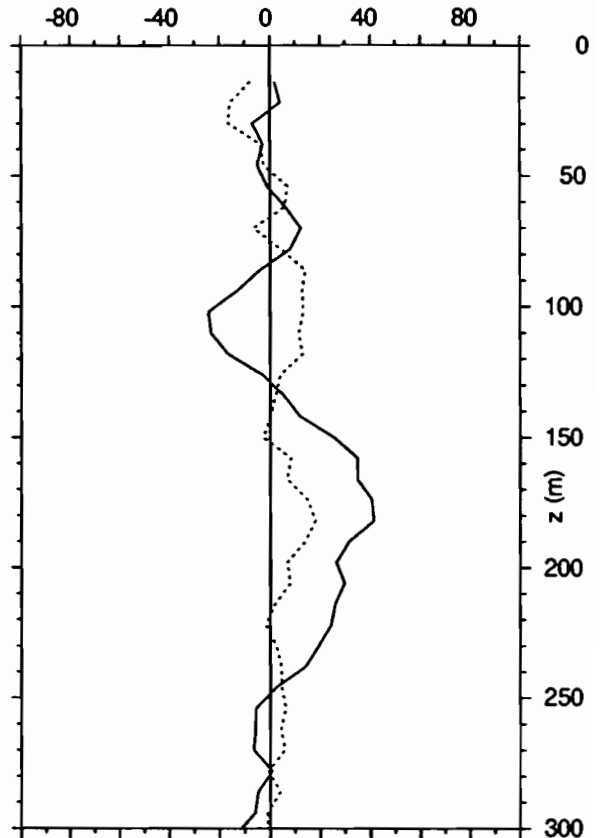
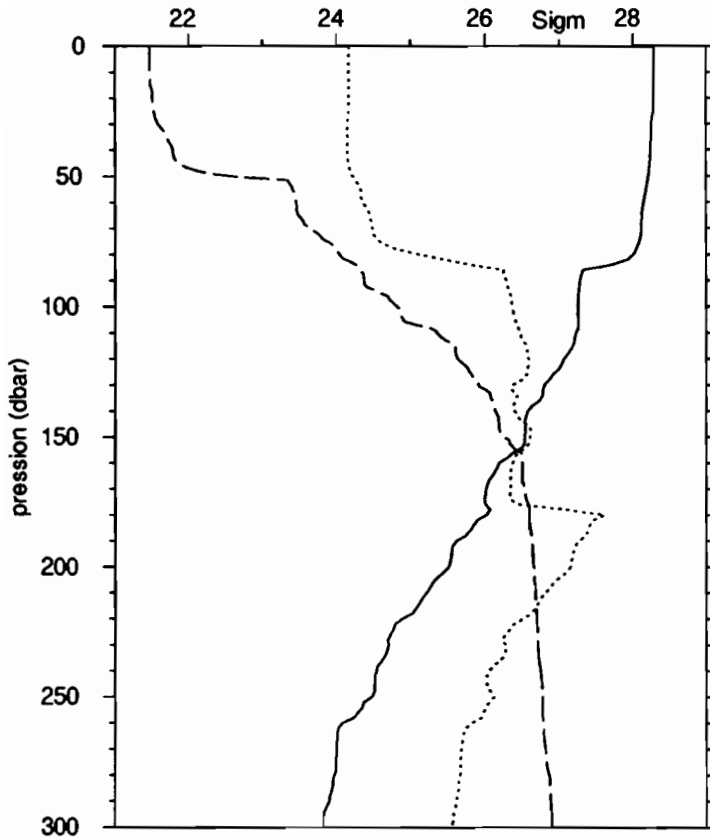
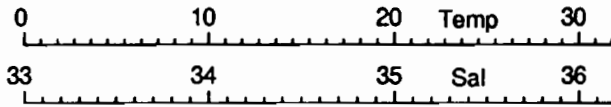


# EQUALIS -station 58

16/11/92, 22h 5 TU

1°30 S 156°15 E

17/11/92, 8h 5 locale

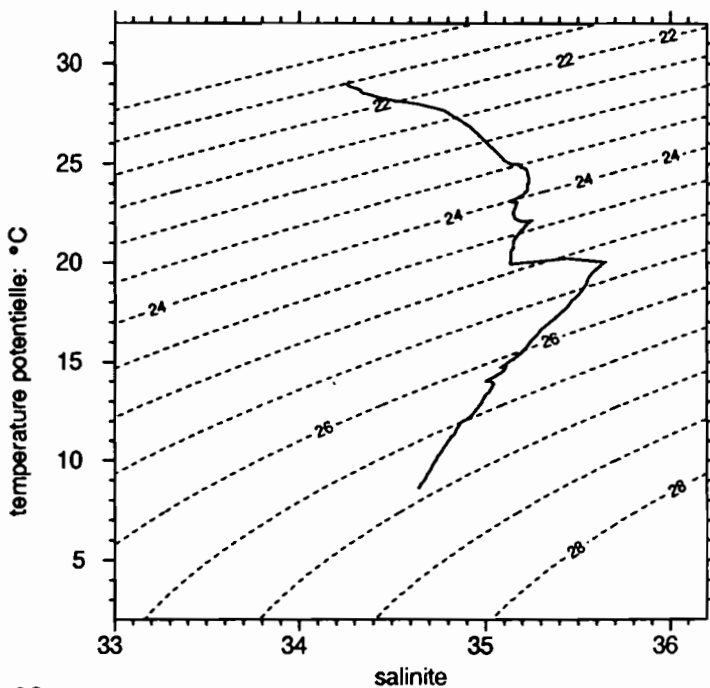


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.136	34.269
fin	504.0	8.641	34.641

	Z	U	V
debut	14.0	1.9	-7.8
fin	398.0	-7.3	7.5



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.127	34.269		
20.0	29.119	34.268	3.5	-13.8
30.0	29.007	34.261	-6.9	-16.4
40.0	28.962	34.260	-3.3	-3.5
50.0	28.840	34.288	-3.0	2.2
75.0	28.342	34.433	9.6	0.3
100.0	24.998	35.145	-21.6	13.2
125.0	23.805	35.225	-4.8	5.2
150.0	22.116	35.240	25.5	-2.7
200.0	18.027	35.460	27.2	7.1
250.0	13.920	35.046	-1.5	5.5
300.0	11.263	34.820	-11.4	-0.8
400.0	10.043	34.733		
500.0	8.671	34.643		

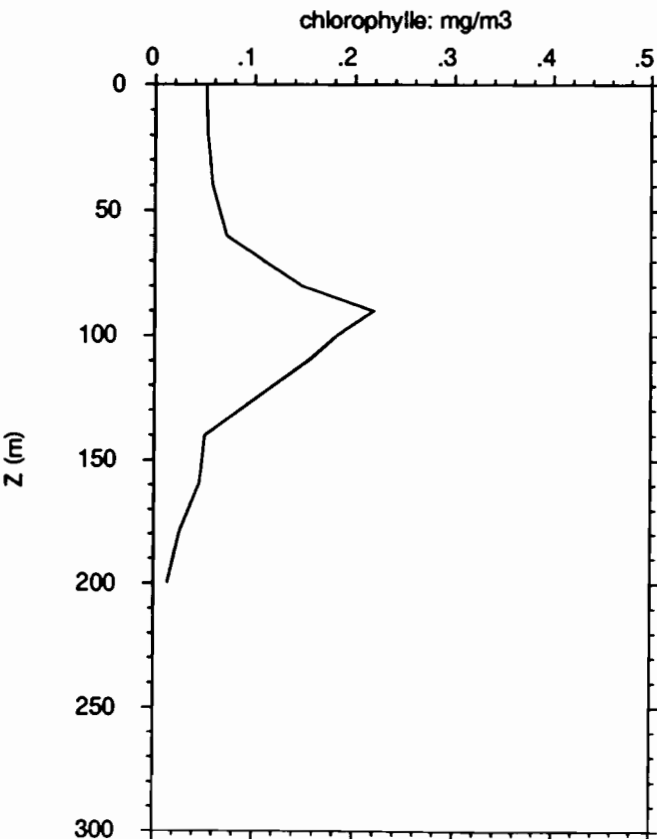
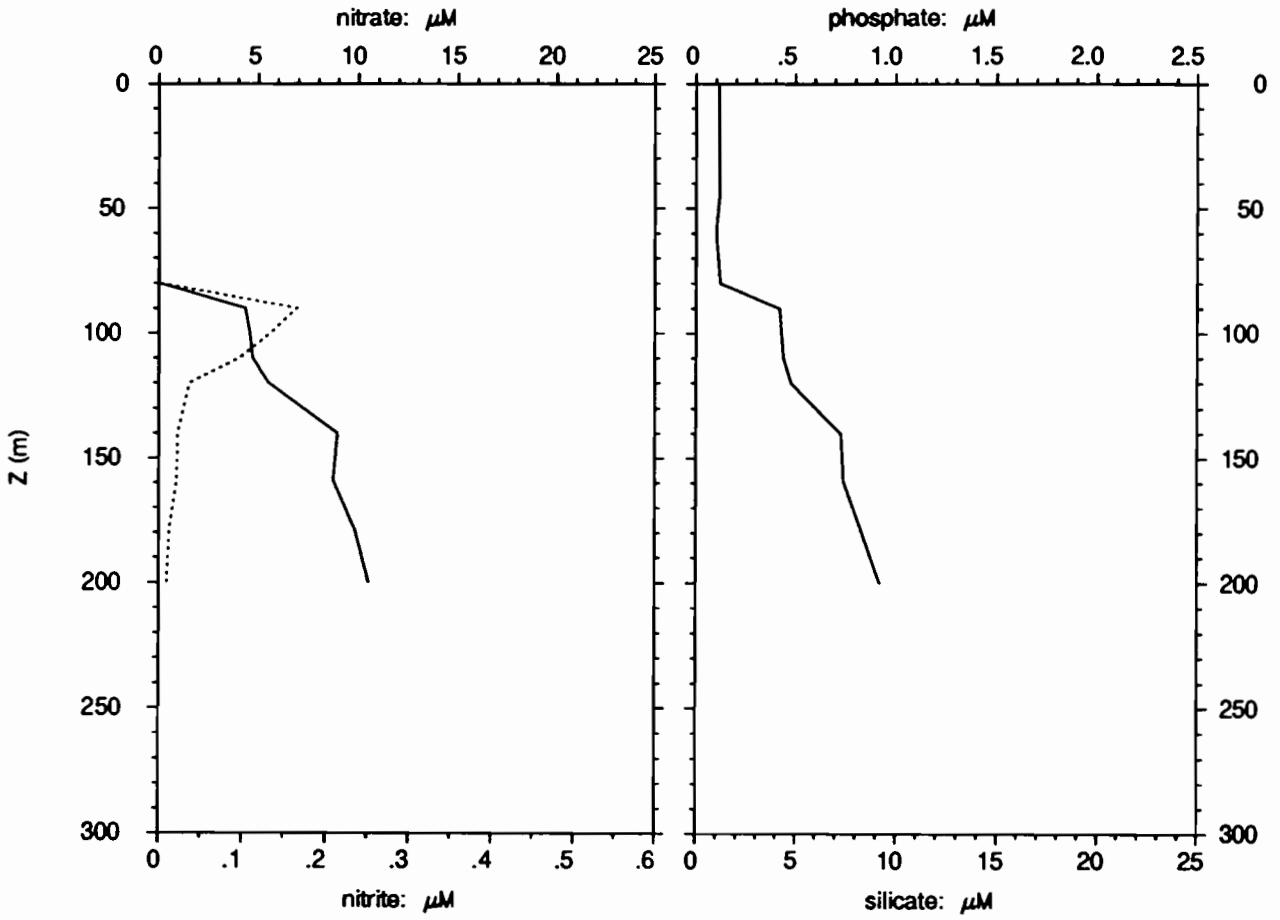
# EQUALIS - station 58

1°30 S 156°15 E

16/11/92, 22h 5 TU

17/11/92, 8h 5 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.004	0.000	0.11	
20	0.004	0.000	0.12	
40	0.004	0.000	0.12	
60	0.002	0.000	0.10	
80	0.003	0.001	0.12	
90	4.35	0.166	0.42	
100	4.58	0.135	0.43	
110	4.72	0.098	0.44	
120	5.51	0.037	0.48	
140	8.94	0.023	0.73	
159	8.74	0.022	0.74	
179	9.83	0.013	0.83	
200	10.50	0.010	0.92	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.35	34.30	0.051	0.032	38.54
20	29.12	34.18	0.053	0.027	33.56
40	28.96	34.26	0.058	0.034	37.05
60	28.57	34.34	0.072	0.056	43.64
80	28.07	33.95	0.148	0.128	46.38
90	25.15	35.01	0.219	0.319	59.28
100	25.01	35.08	0.182	0.292	61.57
110	24.84	34.91	0.153	0.234	60.45
120	24.05	34.76			
140	22.30	34.89	0.051	0.096	65.14
159	21.53	34.18	0.046	0.096	67.86
179	19.97	34.84	0.026	0.044	62.88
200	17.81	35.39	0.014	0.016	52.59

# EQUALIS -station 59

17/11/92, 0h59 TU

1°30 S 156°15 E

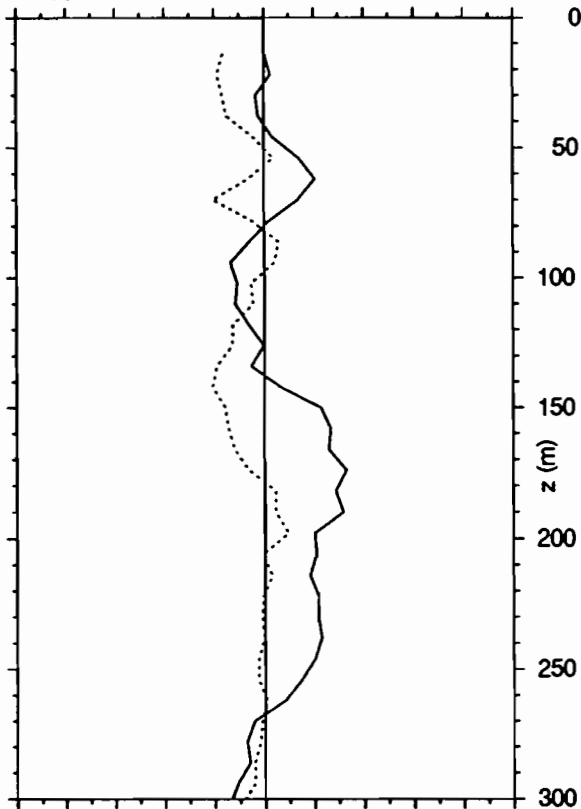
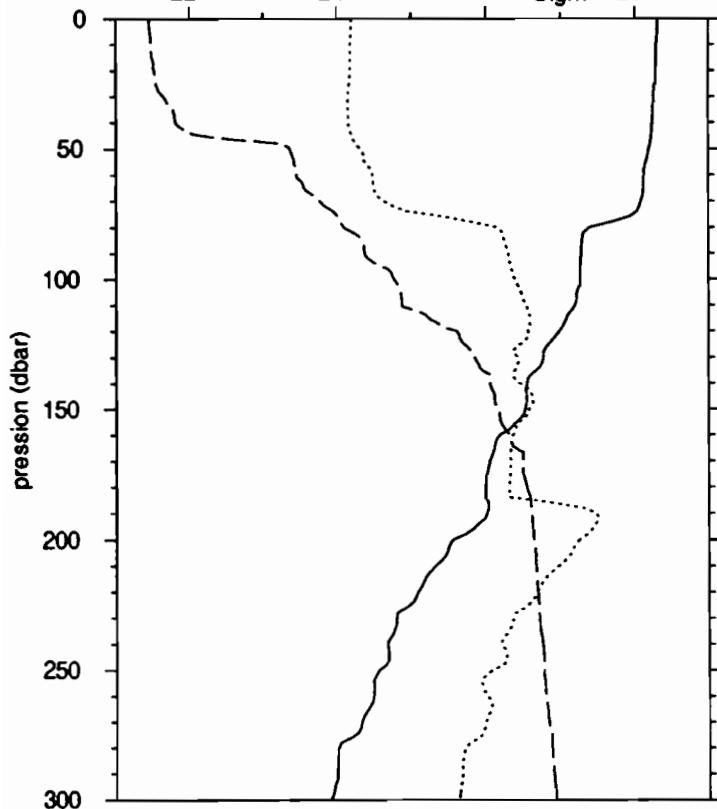
17/11/92, 10h59 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

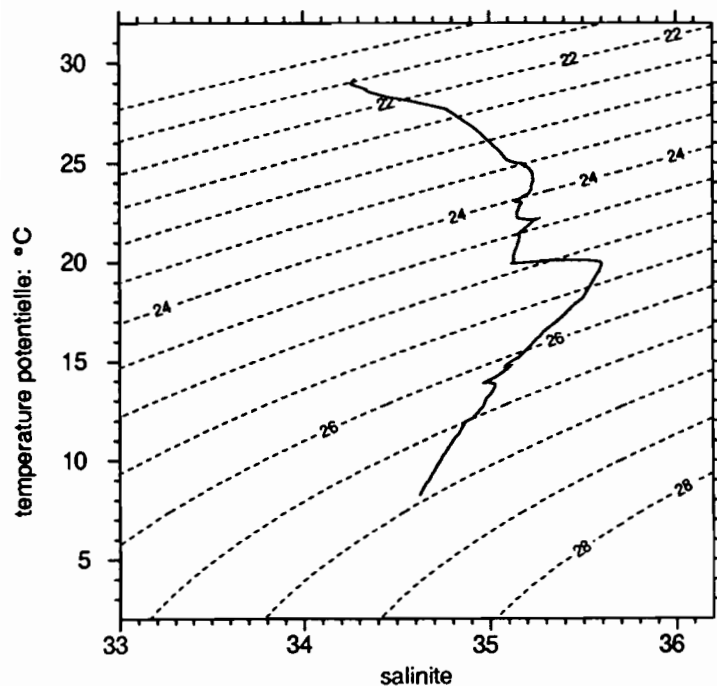


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.211	34.277
fin	502.0	8.293	34.625

	Z	U	V
debut	14.0	0.4	-16.4
fin	406.0	-3.5	-9.1



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.157	34.273		
20.0	29.128	34.272	2.0	-18.1
30.0	29.010	34.262	-3.3	-16.7
40.0	28.938	34.263	-0.8	-12.2
50.0	28.745	34.326	8.8	-0.3
75.0	27.898	34.676	6.4	-10.7
100.0	25.032	35.154	-11.4	-2.9
125.0	23.341	35.185	-0.9	-12.8
150.0	22.101	35.232	22.8	-15.6
200.0	18.214	35.497	20.4	7.1
250.0	14.233	35.032	17.5	-2.5
300.0	11.648	34.849	-13.3	-7.9
400.0	9.986	34.731	-6.3	-2.4
500.0	8.367	34.629		

# EQUALIS - station 59

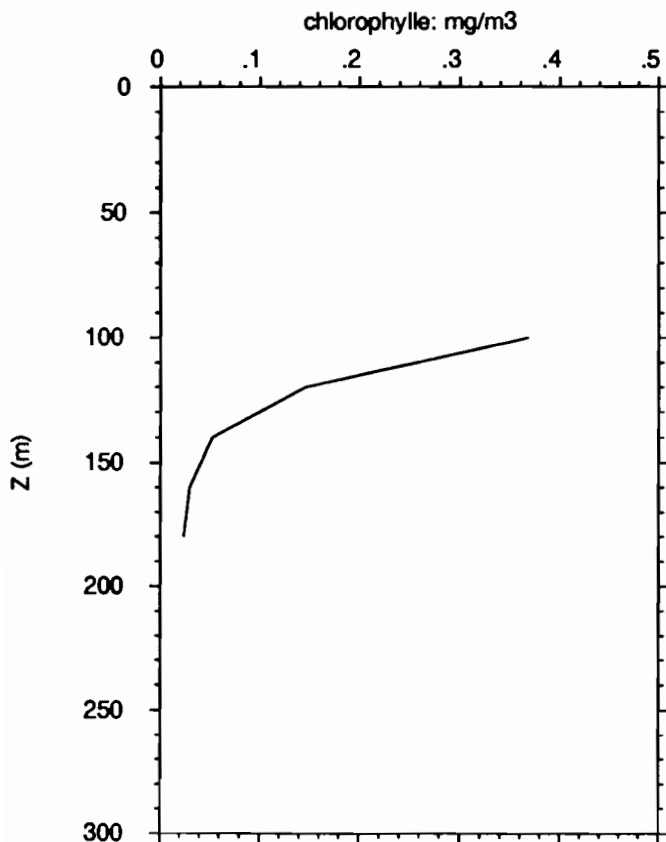
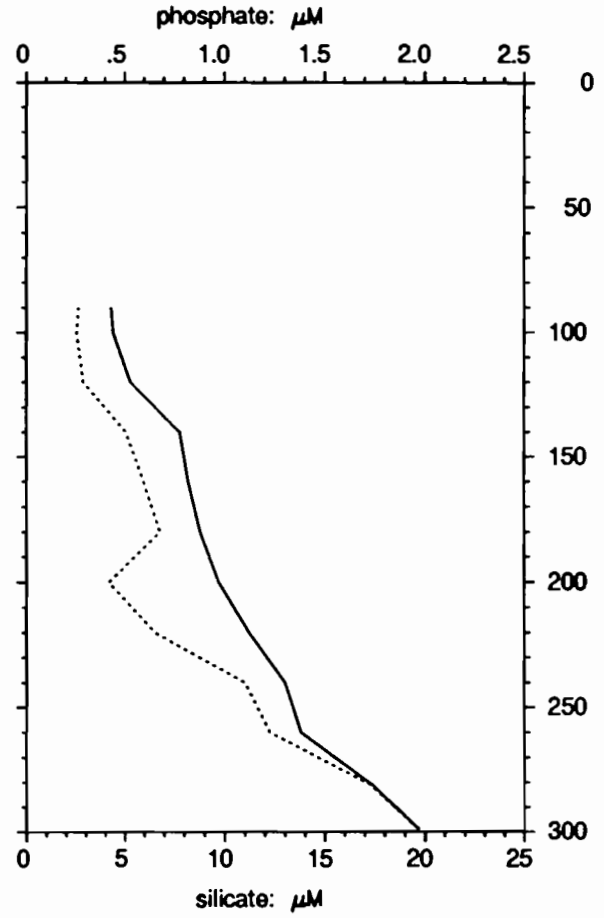
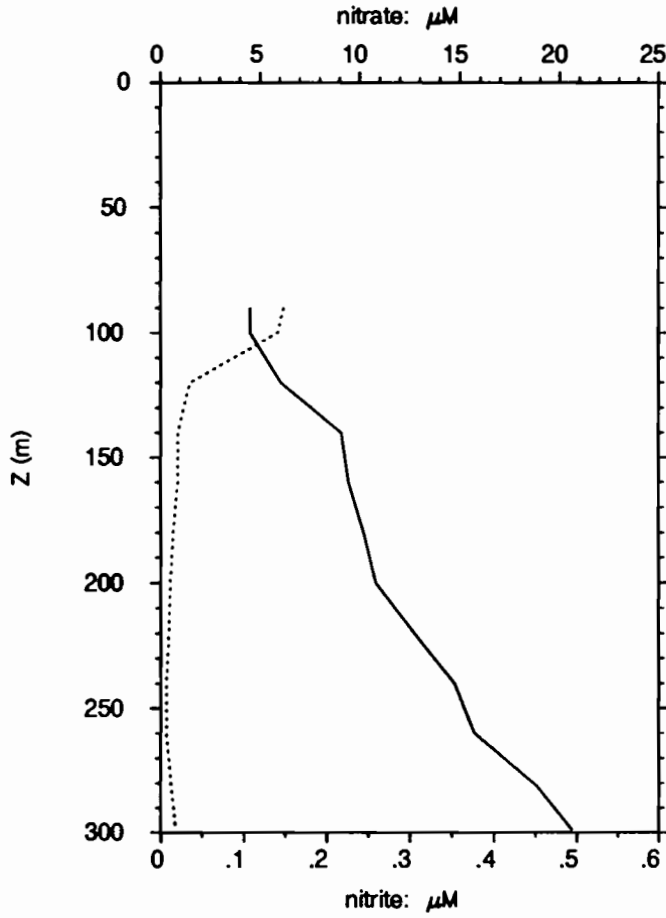
1°30 S 156°15 E

17/11/92, 0h59 TU

17/11/92, 10h59 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	4.48	0.148	0.43	2.6
100	4.49	0.141	0.44	2.5
120	6.04	0.036	0.53	2.9
140	9.08	0.021	0.78	5.1
160	9.43	0.021	0.82	6.0
180	10.18	0.015	0.88	6.8
200	10.80	0.012	0.97	4.2
220	12.71	0.010	1.12	6.5
240	14.71	0.007	1.30	11.0
260	15.69	0.007	1.38	12.2
281	18.81	0.013	1.74	17.3
299	20.58	0.018	1.97	19.7

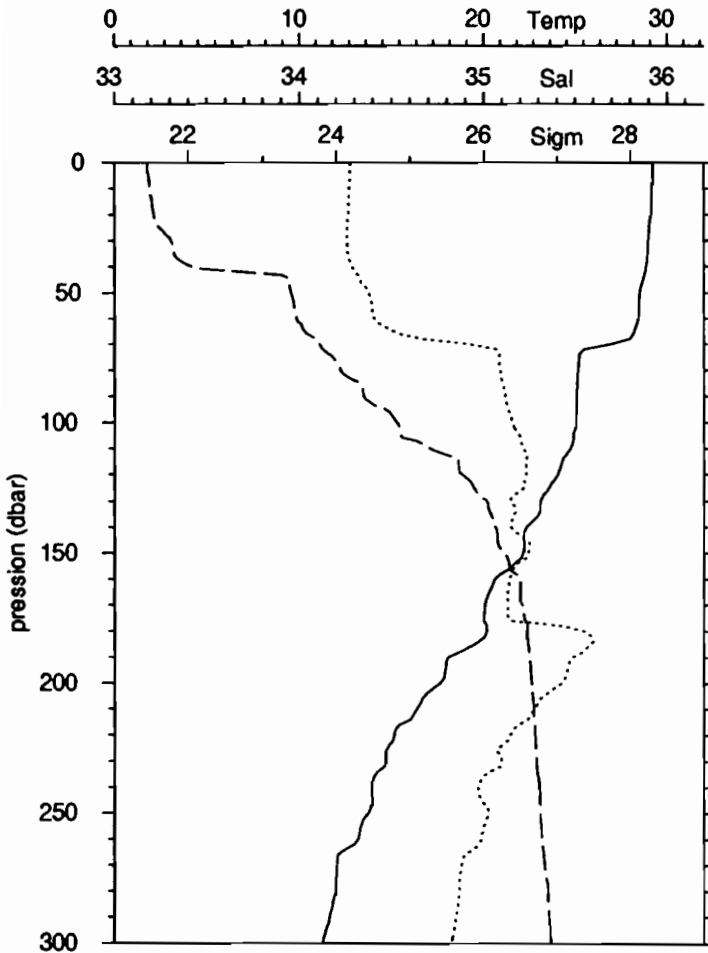
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
90	29.71	35.05			
100	25.10	35.09	0.368	0.451	55.08
120	25.04	34.93	0.146	0.207	58.65
140	22.23	35.13	0.053	0.111	67.70
160	20.66	34.77	0.030	0.045	59.59
180	20.00	35.09	0.024	0.070	74.42
200	18.12	35.07			
220	16.38	34.59			
240	14.68	34.43			
260	13.80	34.39			
281	12.04	34.79			
299	11.65	34.83			

# EQUALIS -station 70

17/11/92, 1h56 TU

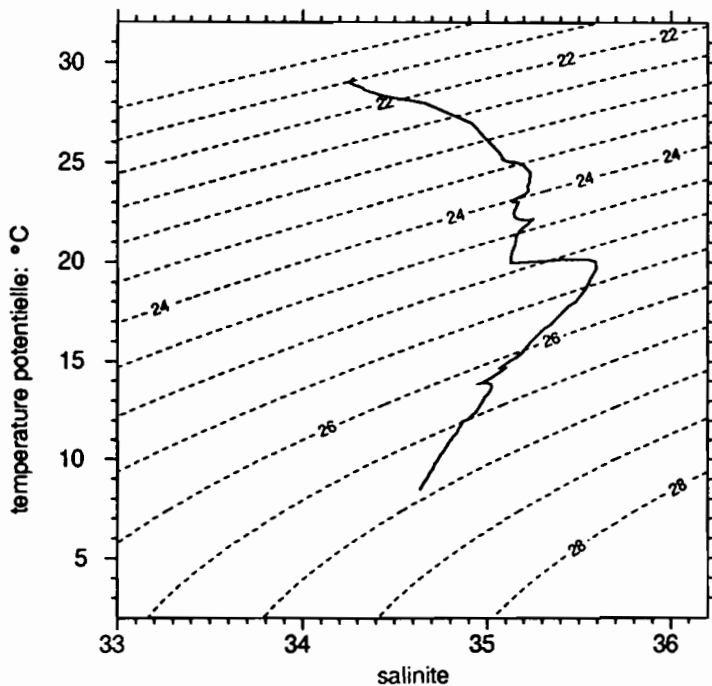
1°30 S 156°15 E

17/11/92, 11h56 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.219	34.274
fin	502.0	8.520	34.635



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.156	34.270		
20.0	29.108	34.265		
30.0	28.972	34.259		
40.0	28.855	34.284		
50.0	28.504	34.376		
75.0	25.200	35.084		
100.0	25.033	35.152		
125.0	23.549	35.215		
150.0	22.134	35.242		
200.0	17.597	35.422		
250.0	13.750	35.025		
300.0	11.285	34.824		
400.0	9.946	34.728		
500.0	8.545	34.637		

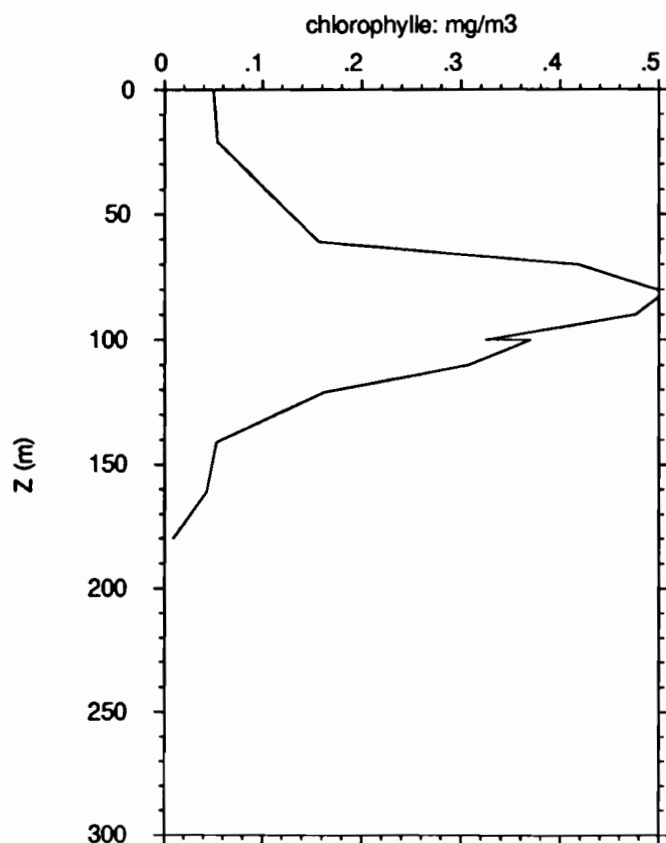
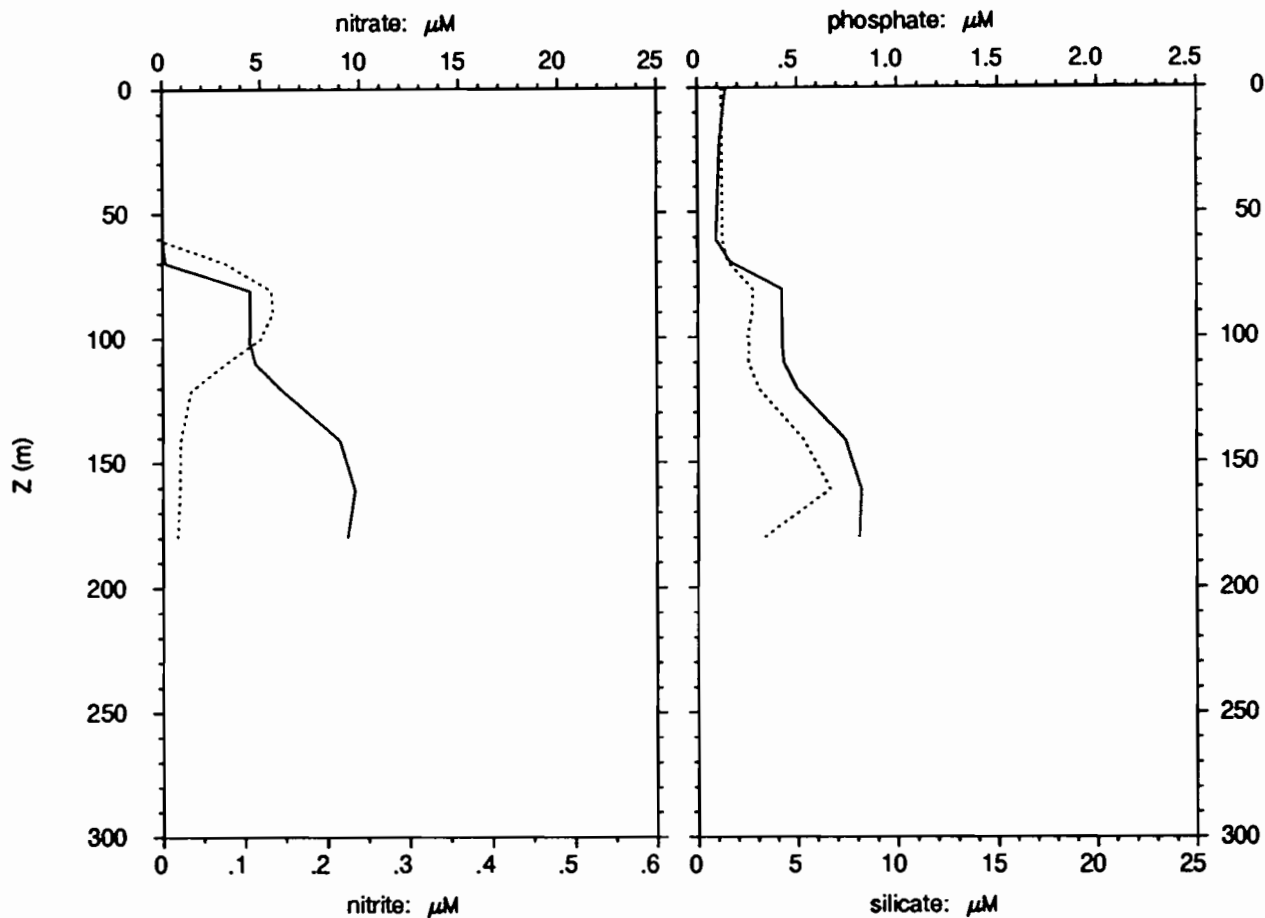
# EQUALIS - station 70

1° 30 S 156° 15 E

17/11/92, 1h56 TU

17/11/92, 11h56 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.004	0.001	0.14	1.2
21	0.004	0.000	0.11	1.2
61	0.003	0.001	0.09	1.2
70	0.166	0.077	0.16	1.5
81	4.45	0.133	0.42	2.7
90	4.47	0.135	0.42	2.7
100	4.46	0.120	0.42	2.5
100	4.40	0.121	0.42	2.5
110	4.73	0.077	0.43	2.5
121	6.10	0.035	0.50	3.1
141	8.99	0.022	0.74	5.3
161	9.74	0.021	0.82	6.7
180	9.37	0.018	0.81	3.3

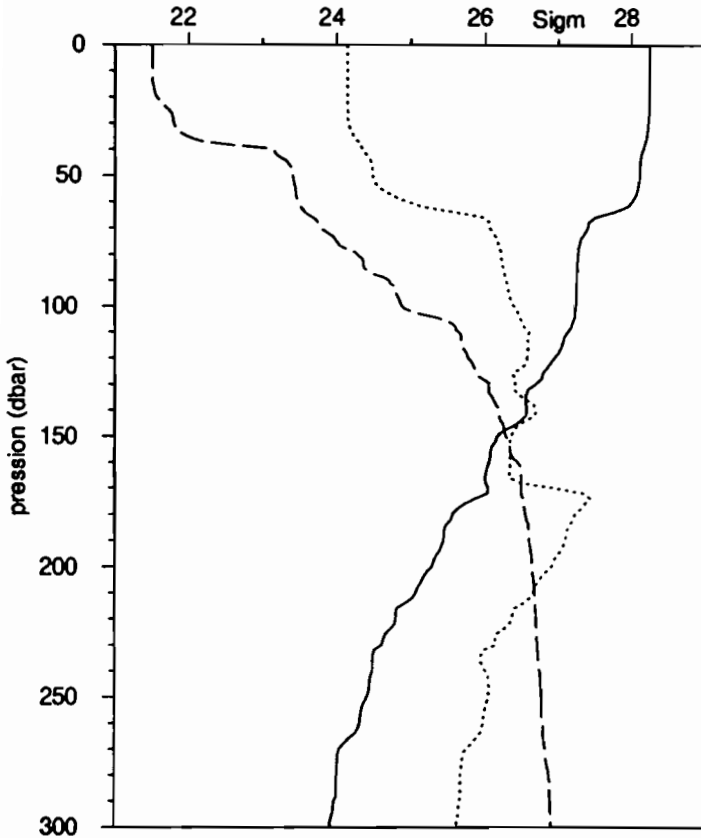
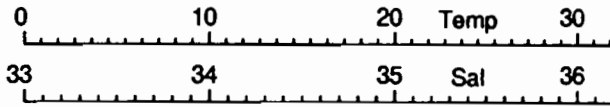
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.77	34.31	0.050	0.037	42.61
21	29.03	34.26	0.054	0.038	41.43
61	28.26	34.27	0.157	0.125	44.29
70	26.11	34.95	0.418	0.429	50.64
81	25.11	34.05	0.506	0.536	51.47
90	25.04	35.10	0.476	0.539	53.07
100	24.97	35.19	0.324	0.461	58.77
100	25.04	35.02	0.370	0.462	55.54
110	24.77	34.86	0.307	0.409	57.11
121	24.05	34.53	0.162	0.249	60.61
141	22.21	34.46	0.053	0.111	67.56
161	20.36	35.11	0.043	0.098	69.69
180	19.71	35.55	0.009	0.050	85.20

# EQUALIS -station 71

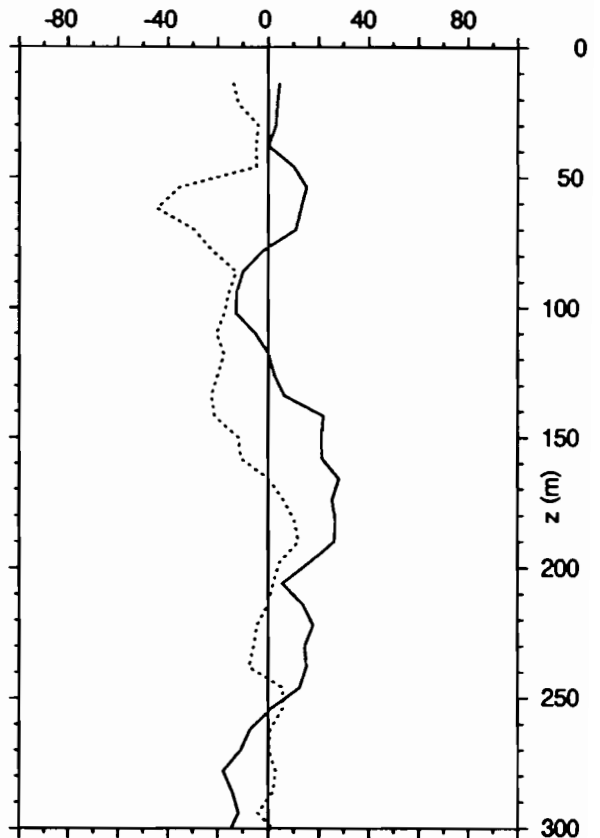
17/11/92, 4h 2 TU

1°30 S 156°15 E

17/11/92, 14h 2 locale



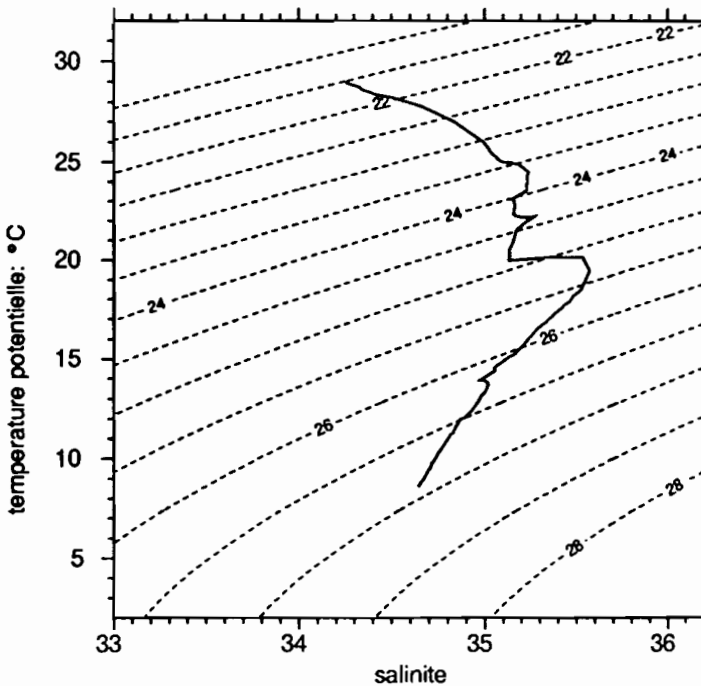
— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3



— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	24.0	28.997	34.257
fin	502.0	8.666	34.643

	Z	U	V
debut	14.0	4.6	-13.7
fin	398.0	-0.9	8.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	8.545	34.637		
20.0	8.545	34.637	3.9	-12.2
30.0	28.928	34.263	3.1	-3.9
40.0	28.642	34.335	2.7	-4.7
50.0	28.452	34.394	12.8	-20.0
75.0	25.200	35.068	2.8	-24.9
100.0	24.944	35.157	-12.6	-16.8
125.0	23.266	35.171	2.2	-19.6
150.0	20.655	35.141	21.1	-11.7
200.0	17.130	35.362	13.7	3.8
250.0	13.636	35.015	6.9	5.8
300.0	11.611	34.843	-14.6	1.7
400.0	10.064	34.736		
500.0	8.680	34.644		

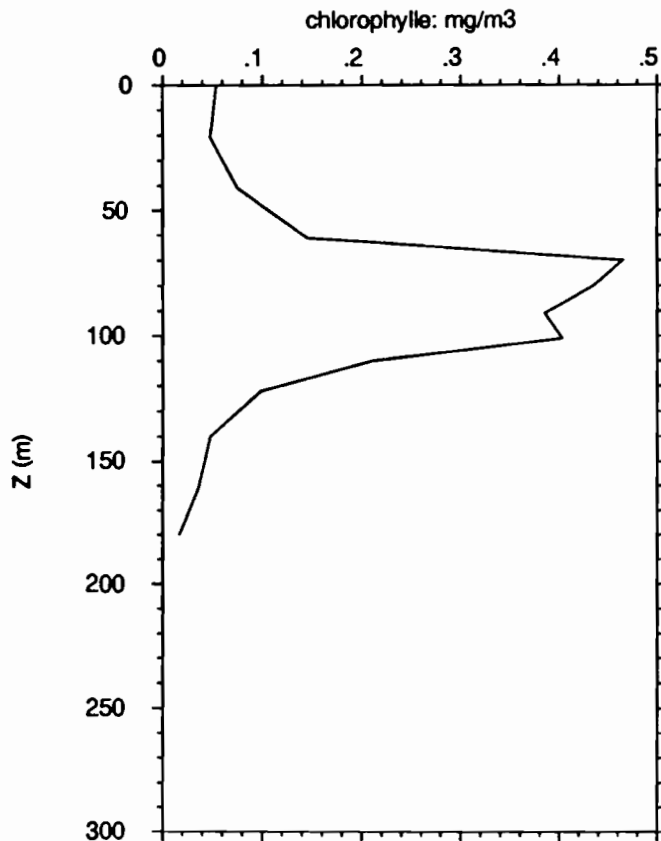
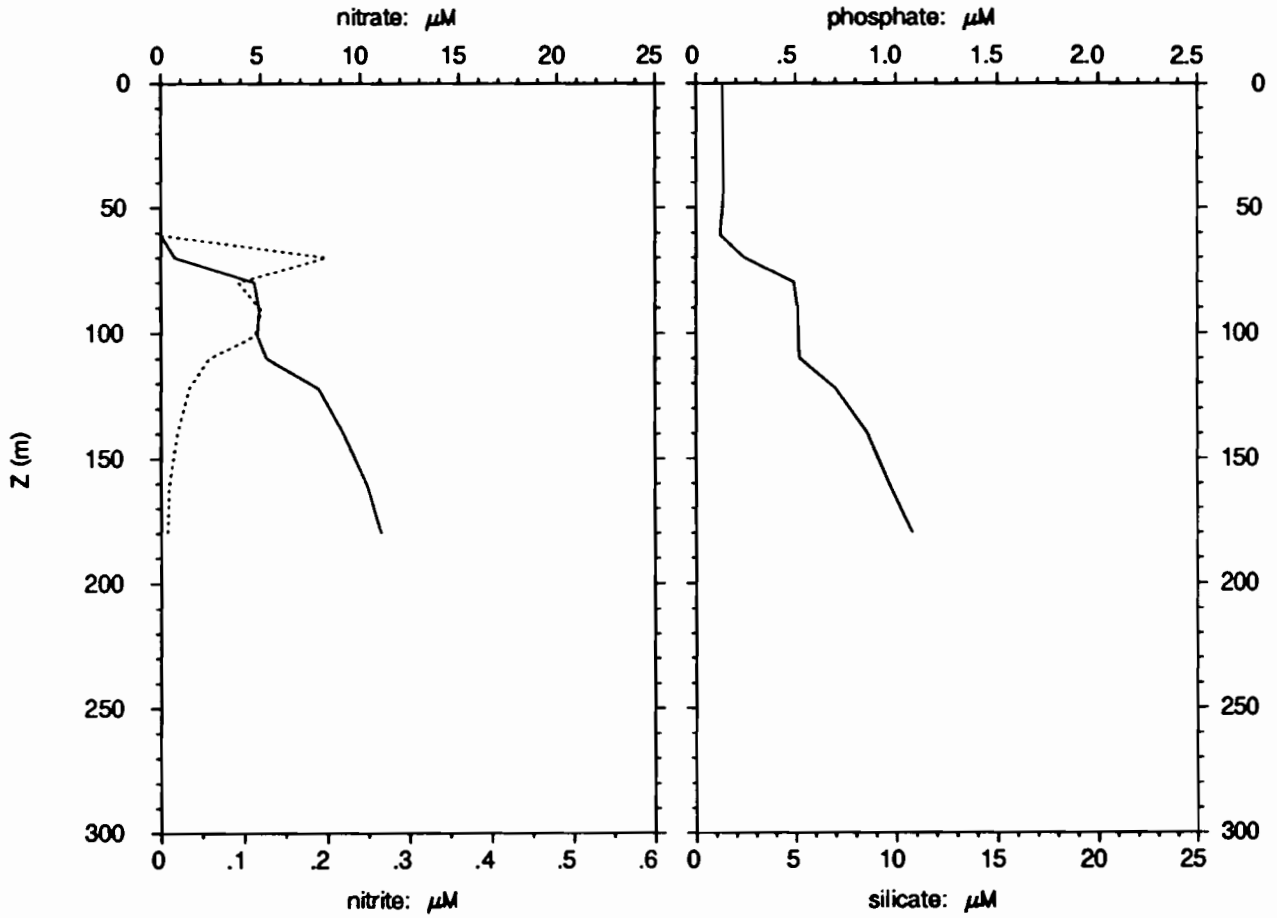
# EQUALIS - station 71

1°30 S 156°15 E

17/11/92, 4h 2 TU

17/11/92, 14h 2 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.000	0.13	
21	0.006	0.000	0.13	
41	0.009	0.000	0.14	
61	0.004	0.000	0.12	
70	0.712	0.199	0.24	
80	4.67	0.093	0.49	
91	4.93	0.121	0.51	
101	4.84	0.113	0.51	
110	5.29	0.058	0.52	
122	7.90	0.034	0.70	
140	9.15	0.020	0.86	
161	10.36	0.010	0.97	
180	11.05	0.008	1.08	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.73	34.31	0.054	0.026	32.22
21	29.03	34.21	0.048	0.029	37.57
41	28.76	34.26	0.075	0.036	32.71
61	28.26	33.78	0.145	0.118	44.93
70	25.56	34.73	0.465	0.443	48.80
80	25.11	35.03	0.435	0.495	53.23
91	25.00	34.99	0.385	0.515	57.19
101	24.93	34.92	0.403	0.516	56.17
110	24.41	34.83	0.211	0.279	56.98
122	23.25	34.49	0.098	0.146	59.66
140	21.46	34.41	0.048	0.101	67.98
161	20.04	34.15	0.036	0.057	61.07
180	17.86	35.42	0.017	0.010	36.34



# EQUALIS -station 72

1°30 S 156°15 E

17/11/92, 6h59 TU

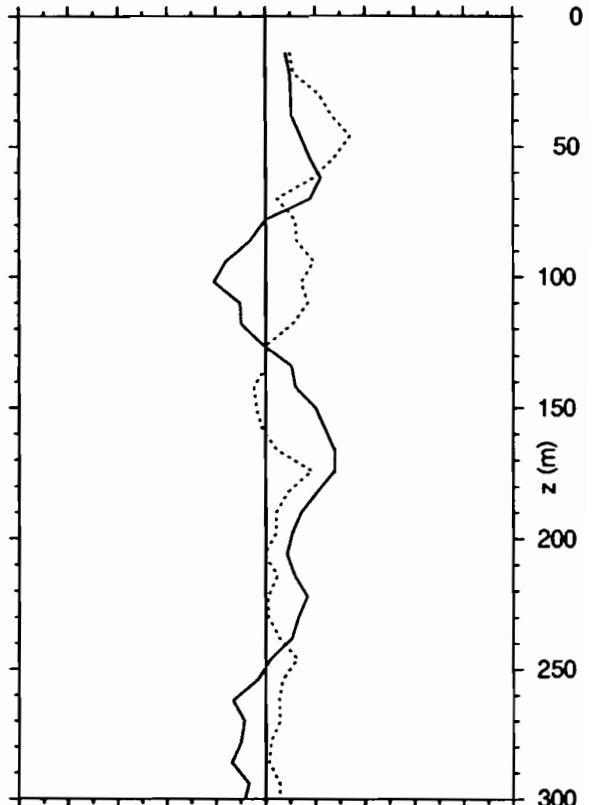
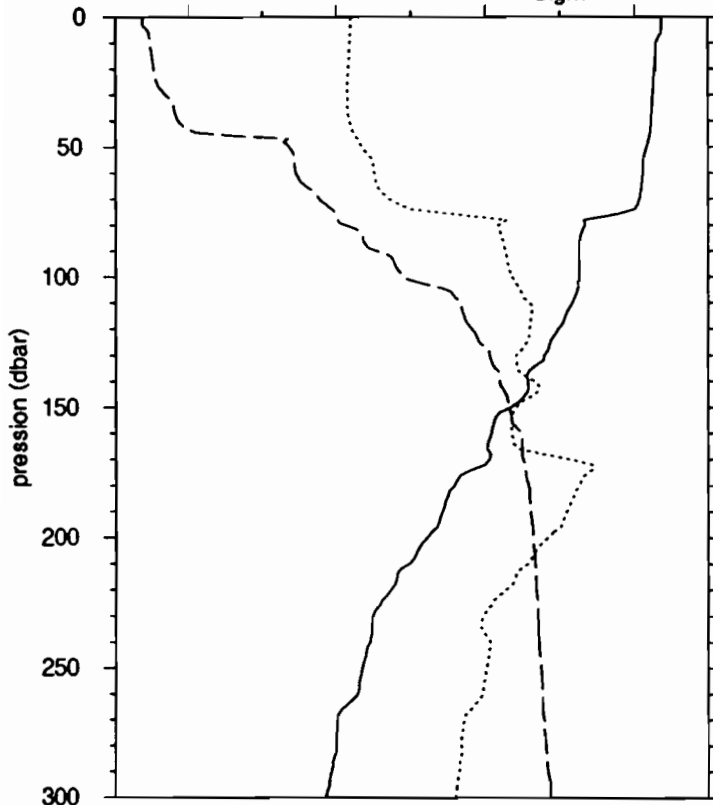
17/11/92, 16h59 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

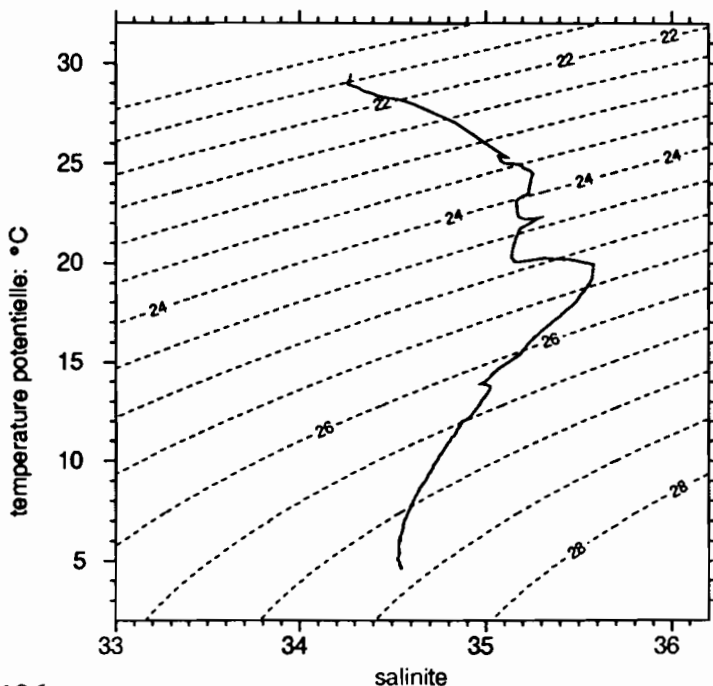


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.451	34.278
fin	998.0	4.679	34.549

	Z	U	V
debut	14.0	8.1	10.0
fin	390.0	-24.7	-1.7



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.184	34.272		
20.0	29.103	34.266	9.4	11.0
30.0	28.999	34.262	10.4	21.5
40.0	28.917	34.272	11.4	28.5
50.0	28.664	34.335	15.9	30.9
75.0	27.529	34.718	6.7	9.2
100.0	25.024	35.143	-19.7	15.6
125.0	23.492	35.223	-2.0	1.9
150.0	21.340	35.165	20.1	-3.7
200.0	16.856	35.337	10.2	3.0
250.0	13.404	35.005	-0.5	9.9
300.0	11.421	34.836	-8.3	5.8
400.0	10.277	34.749		
500.0	8.883	34.661		
600.0	6.993	34.562		
700.0	6.339	34.546		
800.0	5.717	34.535		
900.0	4.888	34.540		

# EQUALIS - station 72

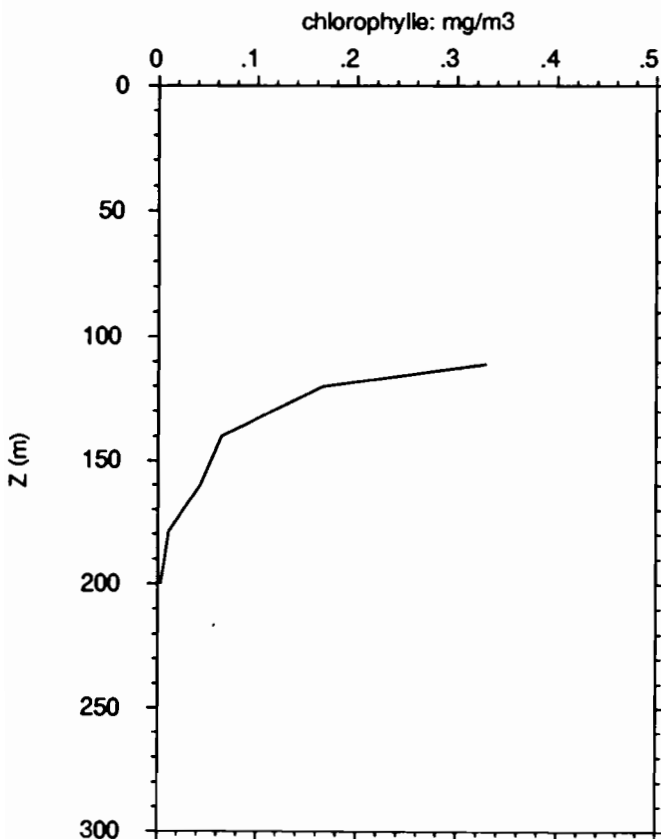
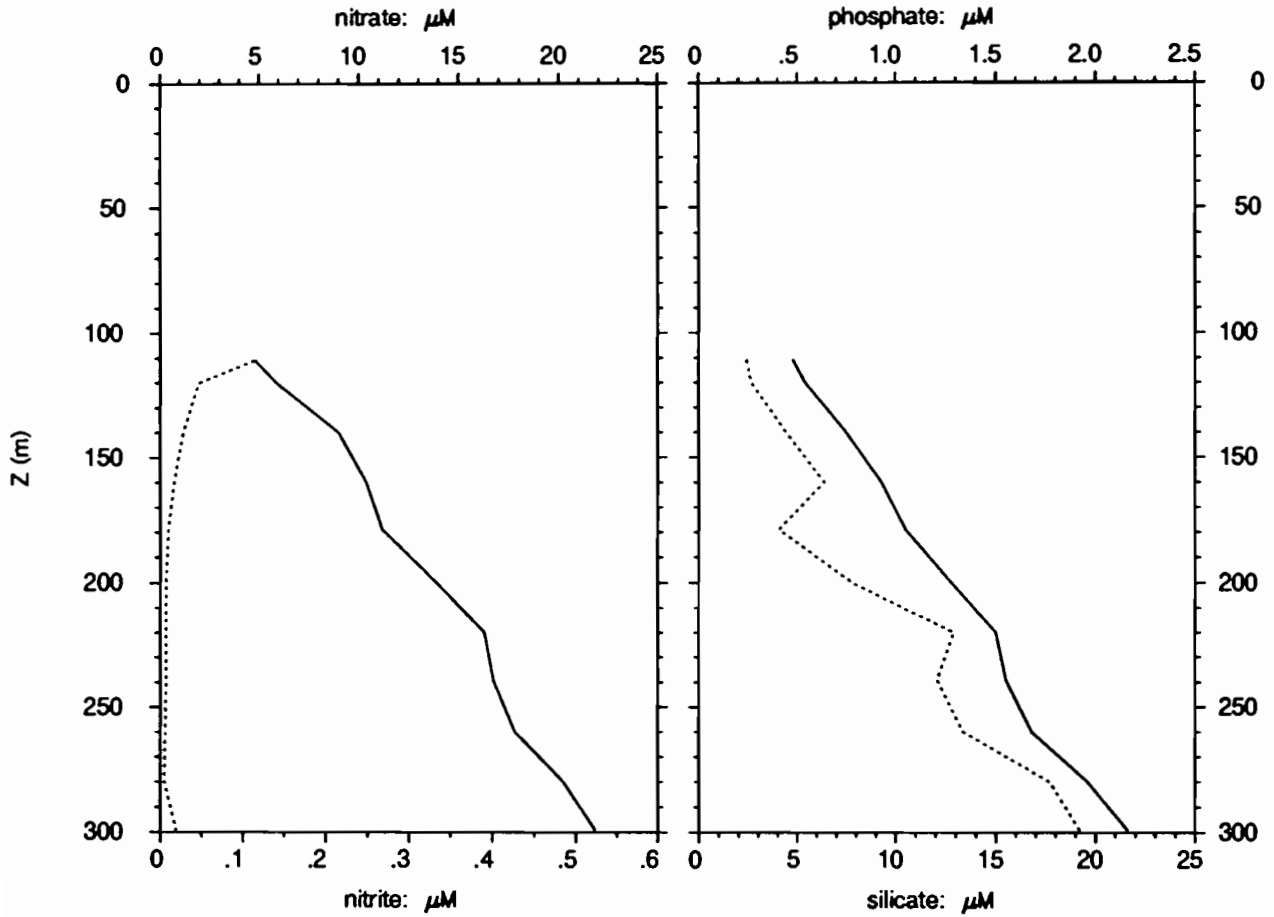
1°30 S 156°15 E

17/11/92, 6h59 TU

17/11/92, 16h59 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
111	4.82	0.114	0.48	2.4
120	5.89	0.047	0.54	2.6
140	8.99	0.028	0.75	4.4
160	10.38	0.017	0.93	6.4
179	11.18	0.010	1.05	4.1
200	13.89	0.007	1.28	7.8
220	16.29	0.007	1.50	12.9
239	16.72	0.007	1.55	12.1
260	17.79	0.006	1.68	13.4
280	20.19	0.005	1.96	17.7
299	21.81	0.019	2.16	19.2
1000	28.98	0.012	3.40	60.5

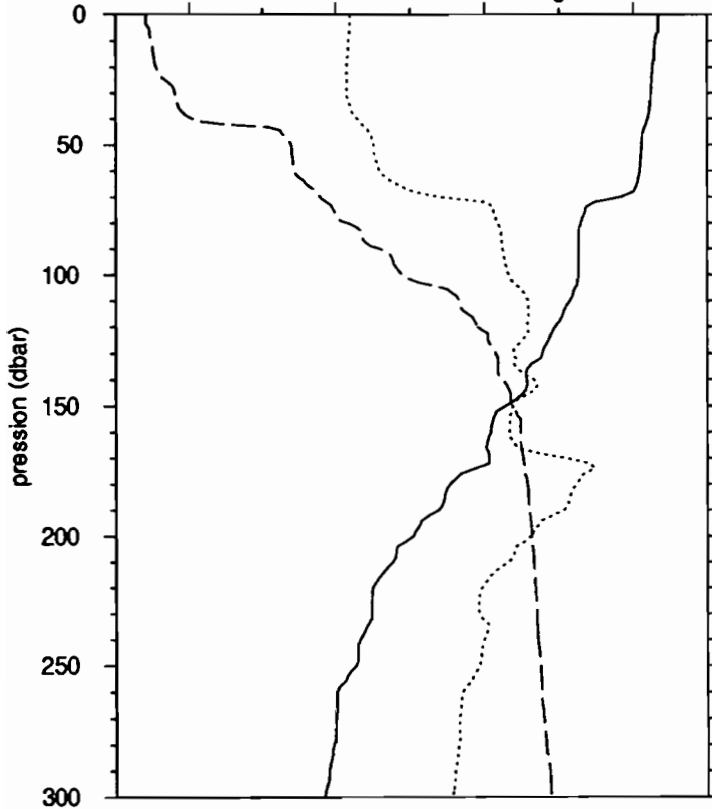
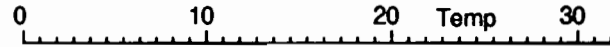
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
111	24.95	34.91	0.329	0.428	56.51
120	24.31	34.67	0.166	0.236	58.76
140	22.80	33.96	0.064	0.109	63.08
160	20.44	33.21	0.043	0.080	64.80
179	18.07	34.69	0.011	0.033	74.38
200	15.85	34.07	0.003	0.024	88.74
220	14.10	34.66			
239	13.72	34.56			
260	12.96	34.42			
280	12.00	34.66			
299	11.65	34.83			
1000	4.68	34.55			

# EQUALIS -station 73

17/11/92, 8h 4 TU

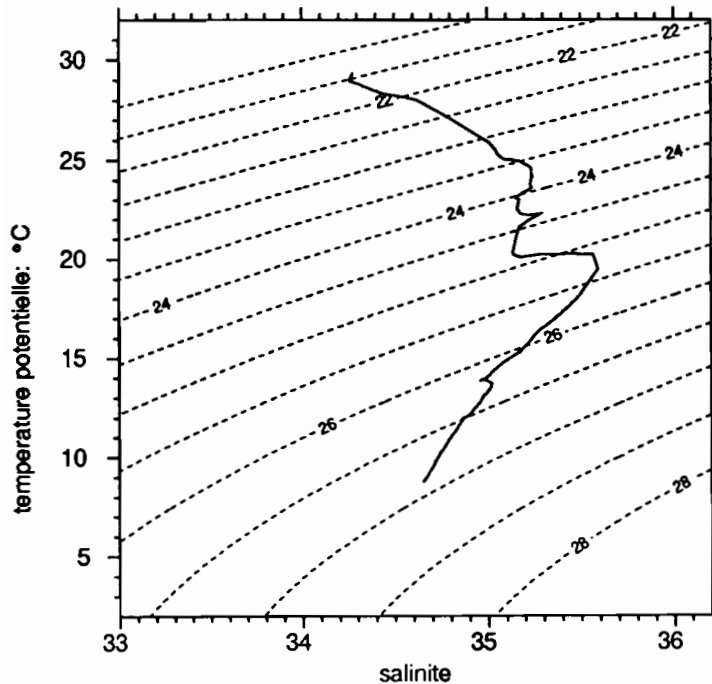
1°30 S 156°15 E

17/11/92, 18h 4 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.349	34.276
fin	498.0	8.815	34.652



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.174	34.269		
20.0	29.046	34.260		
30.0	28.960	34.259		
40.0	28.781	34.316		
50.0	28.451	34.403		
75.0	25.415	35.049		
100.0	25.042	35.131		
125.0	23.434	35.204		
150.0	21.130	35.154		
200.0	16.173	35.252		
250.0	13.079	34.975		
300.0	11.388	34.828		
400.0	10.252	34.743		

# EQUALIS - station 73

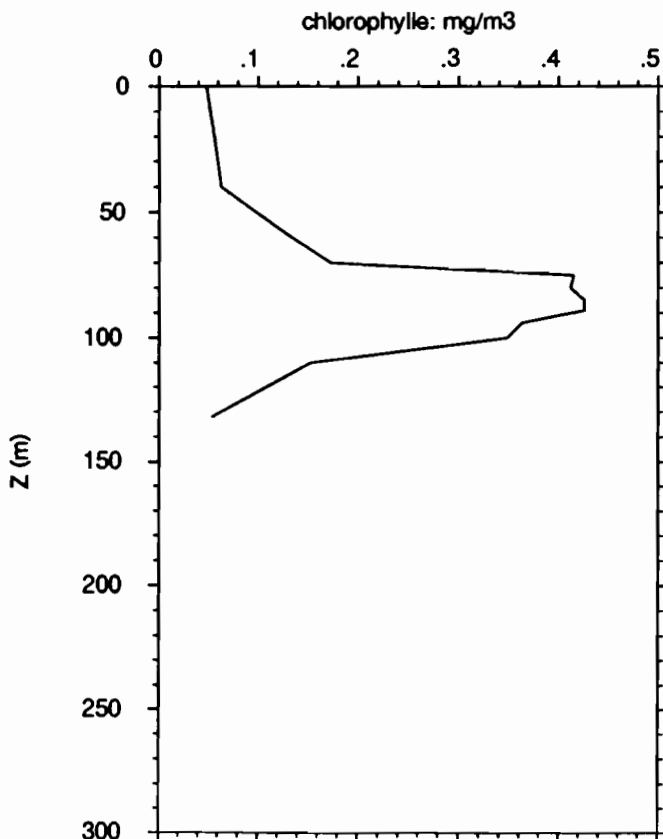
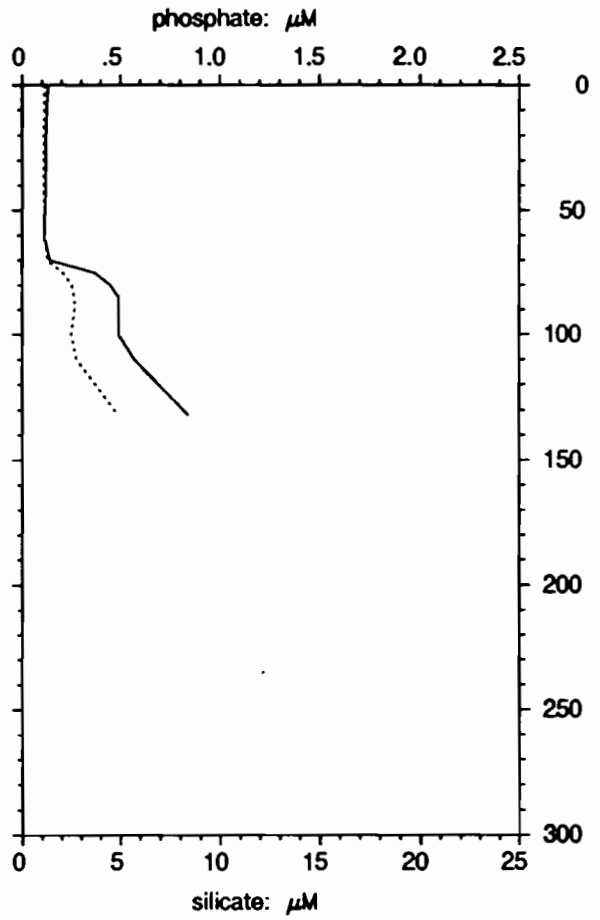
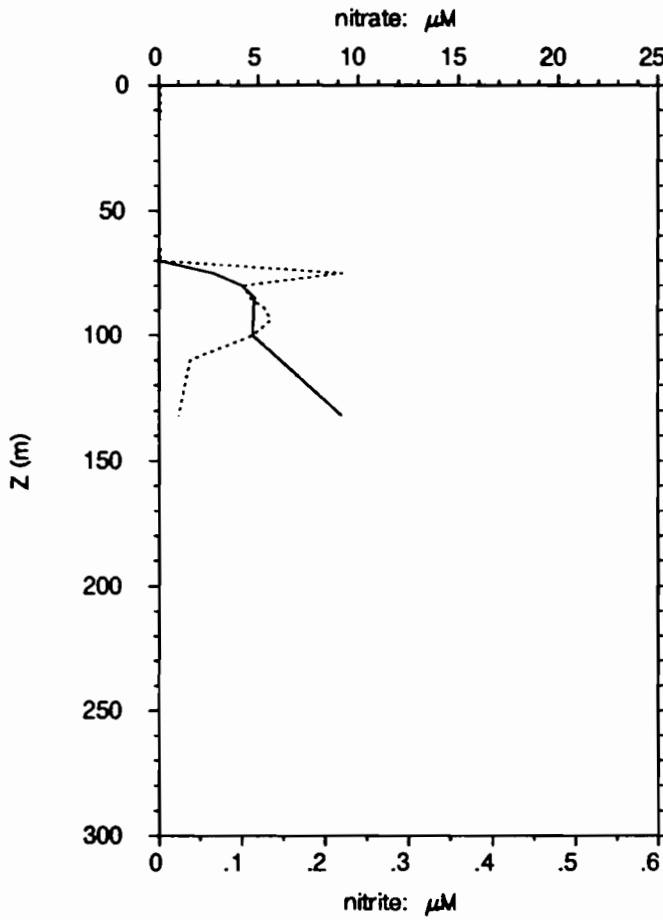
1°30 S 156°15 E

17/11/92, 8h 4 TU

17/11/92, 18h 4 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.000	0.002	0.13	1.1
20	0.004	0.001	0.12	1.1
40	0.000	0.001	0.12	1.1
60	0.002	0.001	0.11	1.1
70	0.005	0.002	0.14	1.2
75	2.74	0.221	0.37	2.1
80	4.19	0.103	0.45	2.5
85	4.84	0.110	0.49	2.6
89	4.76	0.127	0.49	2.7
94	4.75	0.135	0.49	2.6
100	4.70	0.114	0.49	2.5
110	6.11	0.038	0.57	2.8
132	9.18	0.024	0.84	4.9

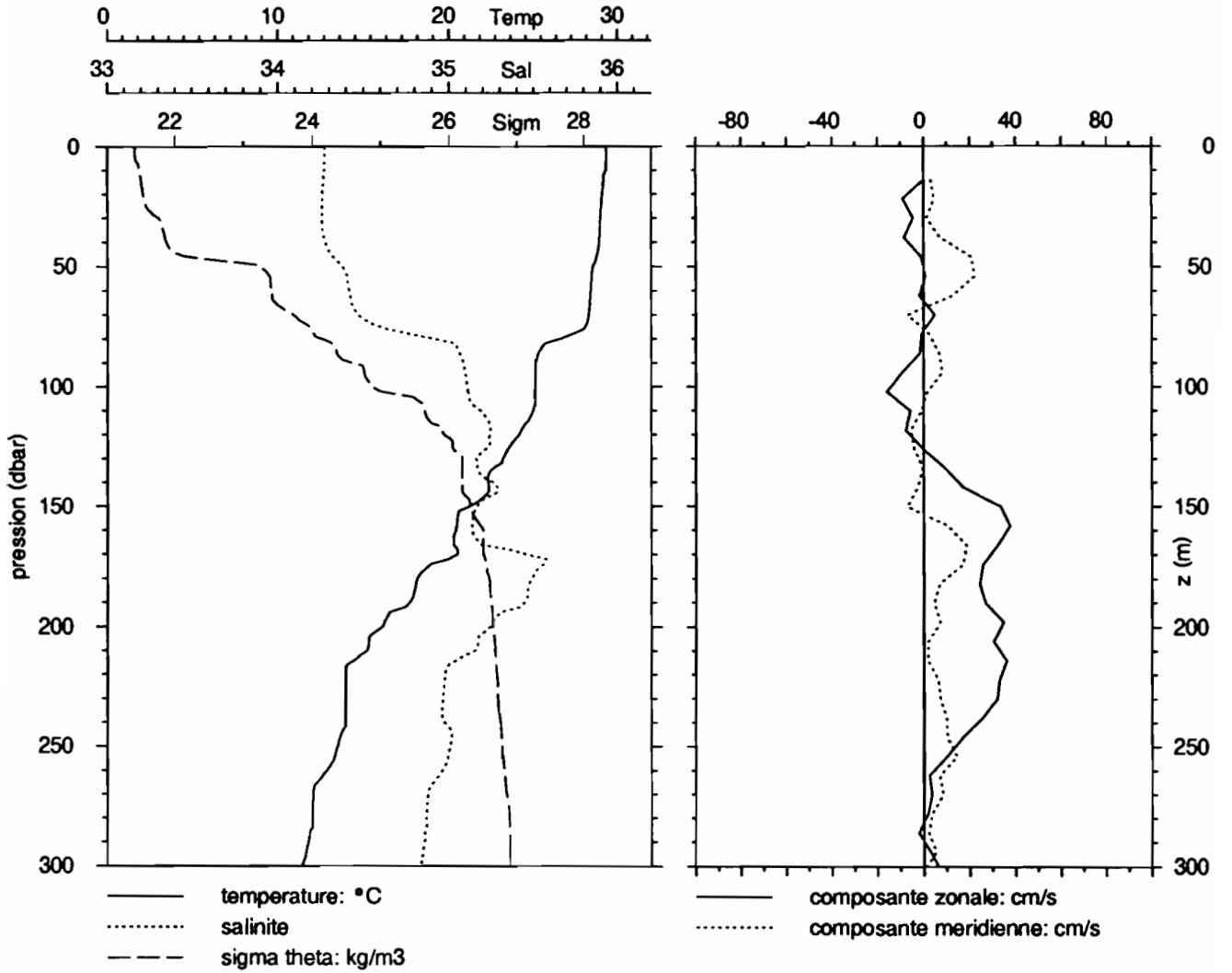
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.57	34.31	0.048	0.015	23.29
20	29.03	34.20	0.056	0.047	45.50
40	28.85	34.17	0.063	0.053	45.50
60	28.37	34.08	0.134	0.067	33.37
70	27.99	33.36	0.173	0.160	48.01
75	25.36	34.92	0.415	0.451	52.08
80	25.10	35.04	0.412	0.484	54.05
85	25.06	35.08	0.426	0.512	54.56
89	25.04	35.08	0.426	0.554	56.52
94	25.05	35.02	0.363	0.455	55.61
100	24.80	34.92	0.348	0.447	56.22
110	24.16	34.62	0.153	0.248	61.88
132	22.36	35.14	0.054	0.107	66.41

# EQUALIS -station 74

1°30 S 156°15 E

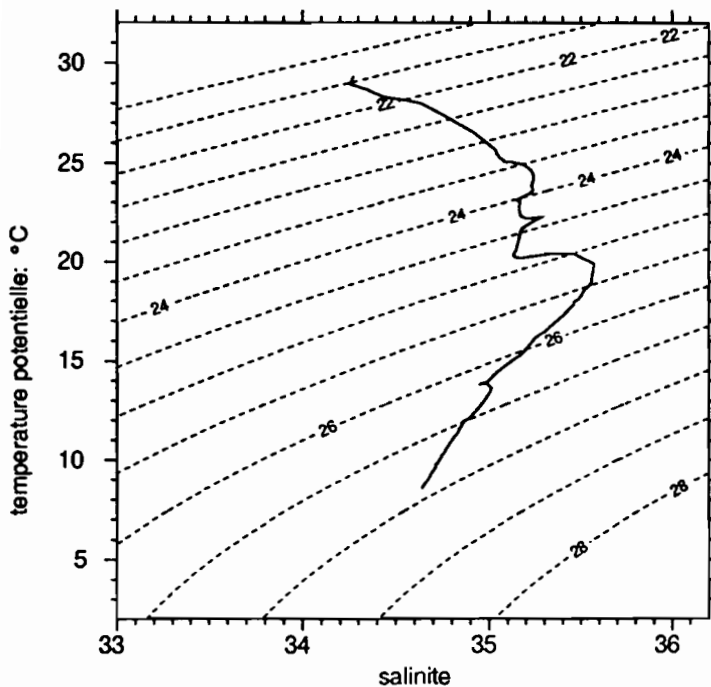
17/11/92, 10h 2 TU

17/11/92, 20h 2 locale



	P	T	S
debut	6.0	29.338	34.272
fin	504.0	8.619	34.640

	Z	U	V
debut	14.0	0.0	3.1
fin	382.0	0.8	8.7



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.294	34.271		
20.0	29.082	34.260	-8.3	4.2
30.0	28.981	34.258	-4.5	1.4
40.0	28.895	34.275	-6.5	10.6
50.0	28.538	34.378	-0.1	21.5
75.0	28.085	34.597	1.2	-1.0
100.0	25.075	35.103	-14.2	3.3
125.0	23.549	35.225	-1.0	-4.2
150.0	21.190	35.163	33.5	-7.0
200.0	16.088	35.240	33.7	6.0
250.0	13.475	35.005	13.6	12.3
300.0	11.399	34.832	6.4	1.2
400.0	10.020	34.731		
500.0	8.658	34.642		

# EQUALIS - station 74

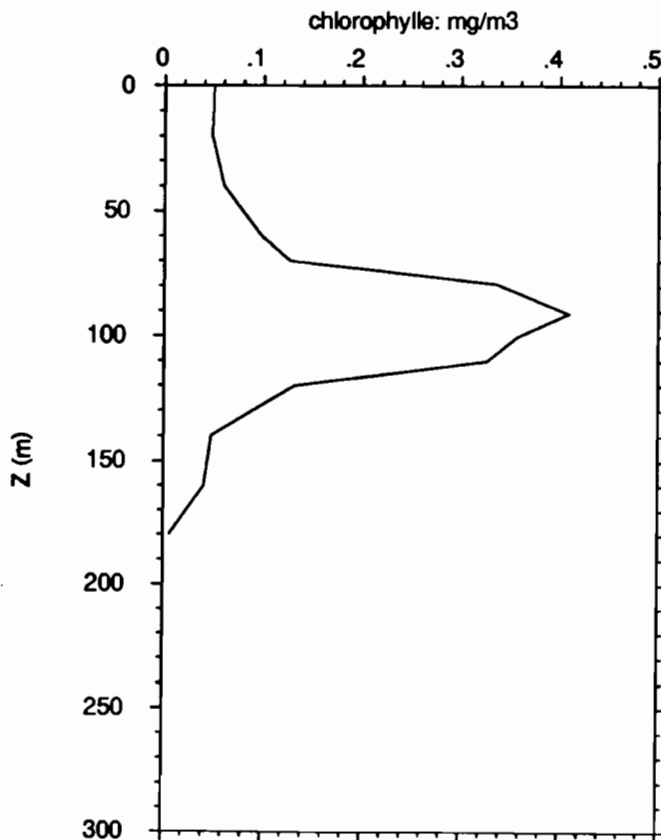
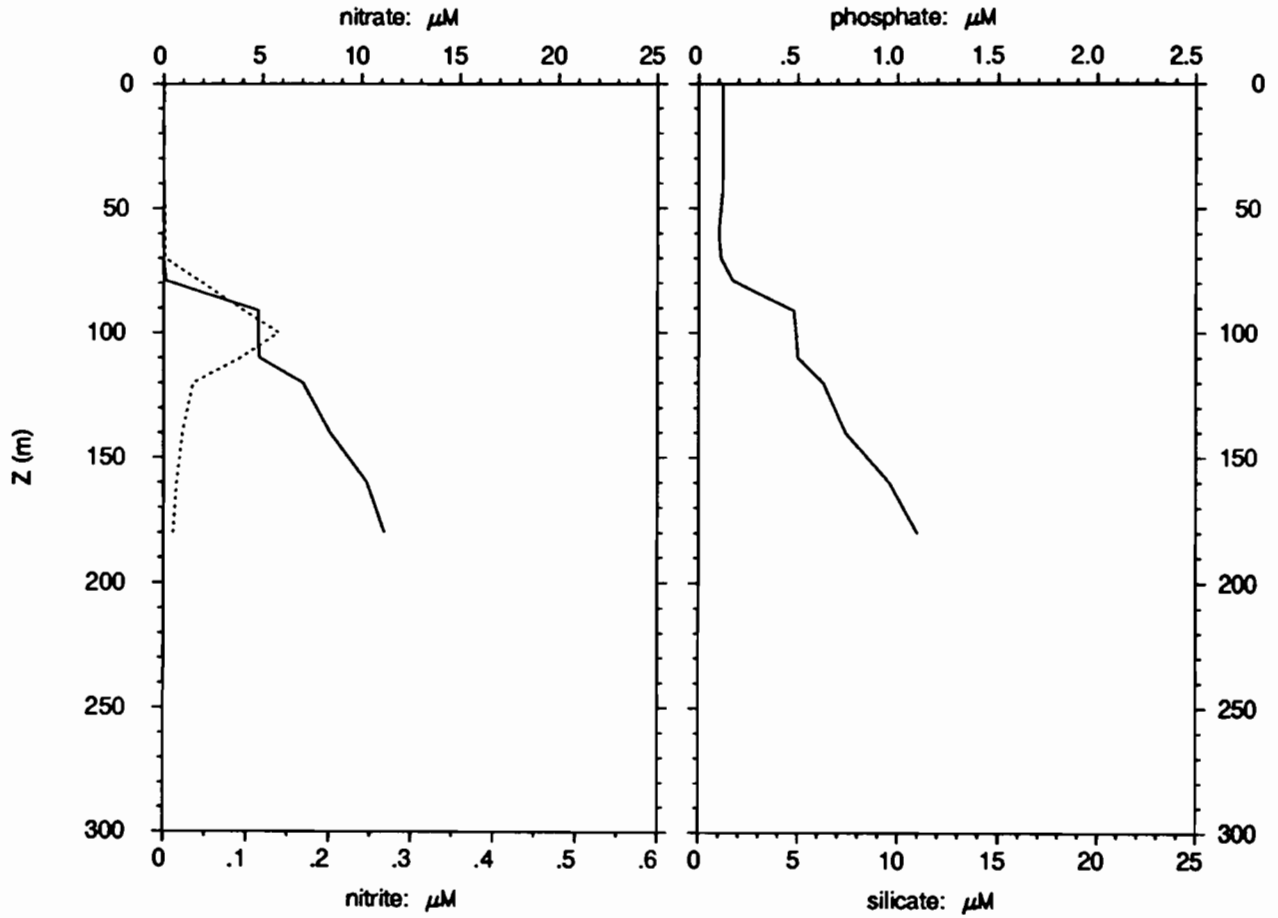
1°30 S 156°15 E

17/11/92, 10h 2 TU

17/11/92, 20h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.001	0.12	
20	0.004	0.001	0.12	
40	0.000	0.001	0.12	
60	0.002	0.002	0.10	
70	0.005	0.002	0.11	
79	0.127	0.043	0.17	
91	4.78	0.097	0.48	
100	4.77	0.139	0.49	
110	4.83	0.094	0.50	
120	7.02	0.036	0.63	
140	8.39	0.023	0.74	
160	10.26	0.016	0.96	
180	11.15	0.012	1.10	

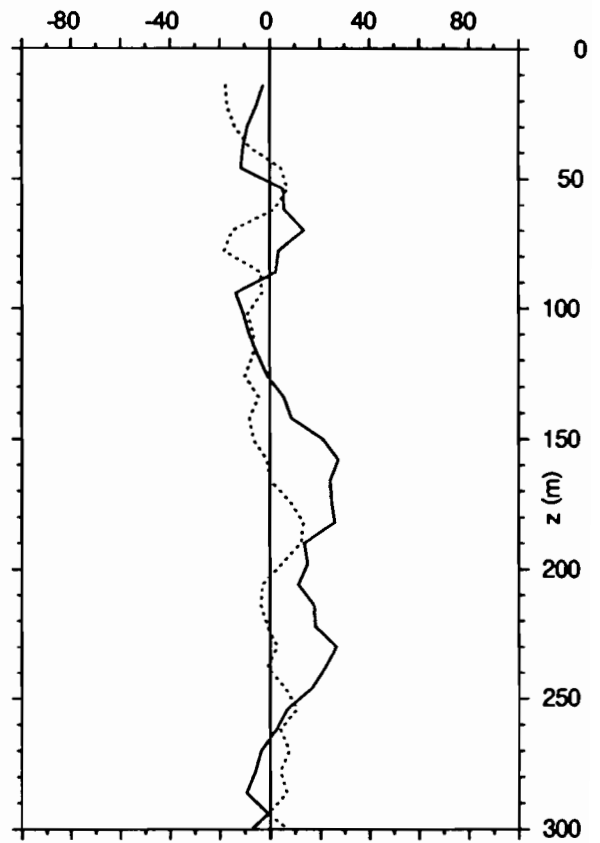
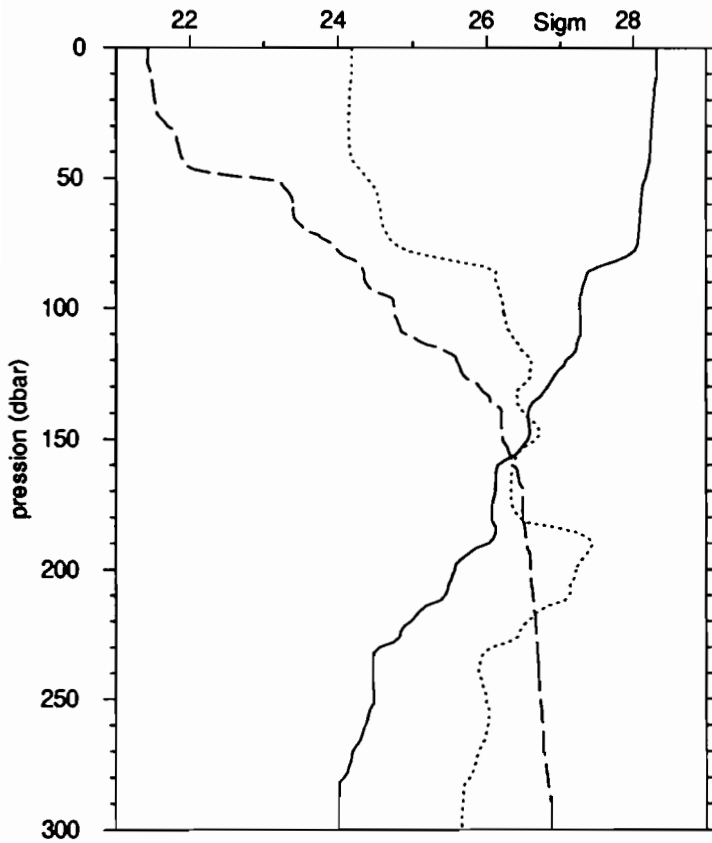
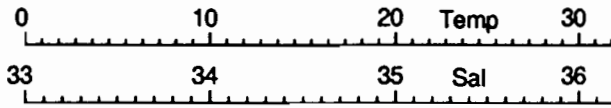
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.48	34.31	0.050	0.017	24.84
20	29.08	34.26	0.048	0.037	43.55
40	28.87	34.17	0.060	0.054	47.59
60	28.37	34.31	0.098	0.084	46.33
70	28.23	34.01	0.127	0.117	48.01
79	25.99	34.60	0.336	0.330	49.55
91	25.09	35.04	0.409	0.480	53.99
100	25.07	34.97	0.358	0.429	54.52
110	24.83	34.57	0.326	0.412	55.85
120	23.57	34.39	0.132	0.214	61.89
140	22.29	34.60	0.048	0.103	68.47
160	20.32	34.60	0.041	0.080	66.33
180	18.07	35.44	0.006	0.045	88.73

# EQUALIS -station 75

17/11/92, 13h 0 TU

1°30 S 156°15 E

17/11/92, 23h 0 locale

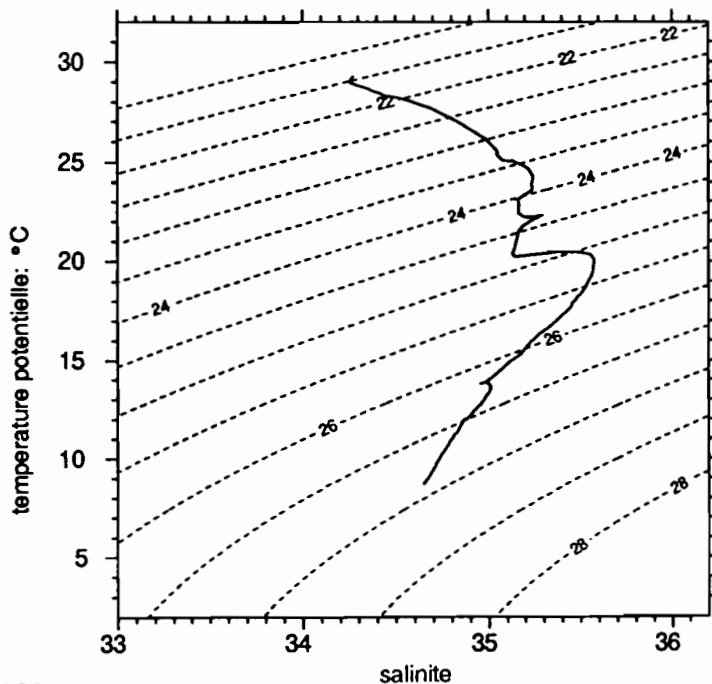


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.272	34.272
fin	504.0	8.749	34.648

	Z	U	V
debut	14.0	-2.6	-17.6
fin	326.0	-3.2	4.7



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.279	34.272		
20.0	29.102	34.259	-4.6	-17.1
30.0	29.007	34.255	-8.9	-13.9
40.0	28.923	34.265	-10.8	-5.0
50.0	28.668	34.352	-3.0	5.8
75.0	28.239	34.499	7.3	-16.8
100.0	25.075	35.090	-11.2	-7.3
125.0	23.777	35.237	-1.5	-9.6
150.0	22.245	35.272	21.2	-6.6
200.0	18.271	35.486	14.2	2.9
250.0	13.899	34.996	11.8	8.5
300.0	11.993	34.862	-7.4	7.0
400.0	10.371	34.752		
500.0	8.779	34.650		

# EQUALIS - station 75

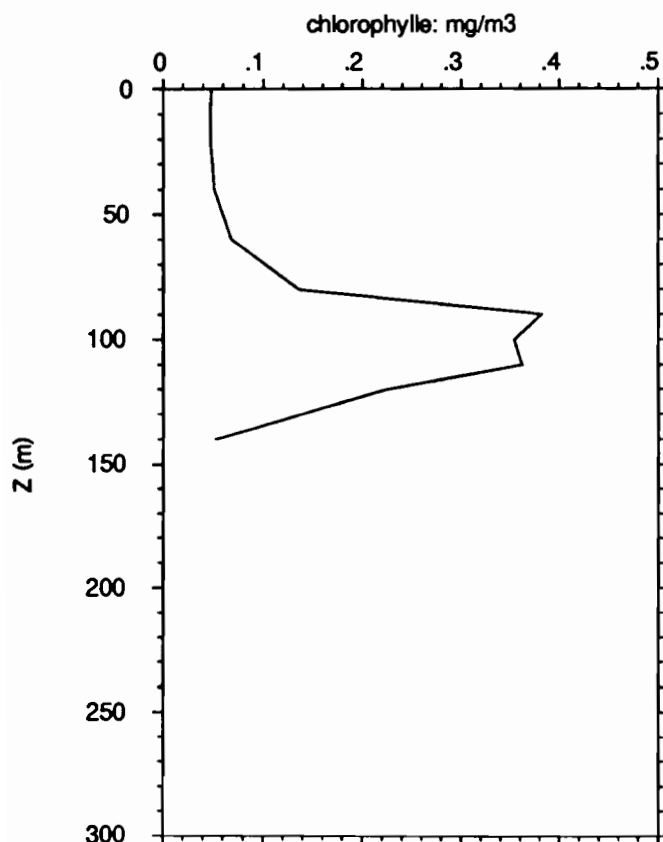
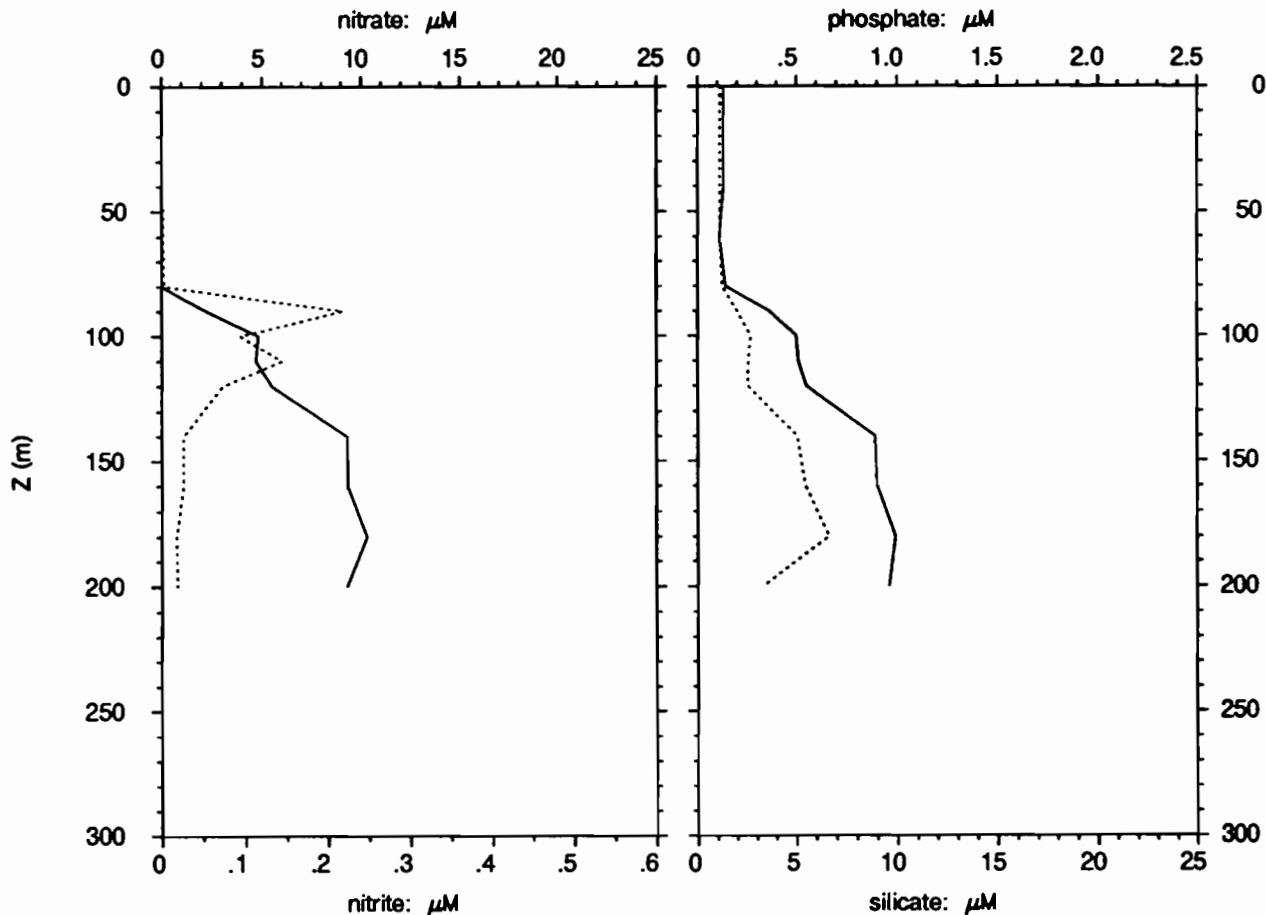
1°30 S 156°15 E

17/11/92, 13h 0 TU

17/11/92, 23h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.001	0.13	1.1
19	0.002	0.001	0.13	1.1
40	0.002	0.001	0.13	1.1
60	0.001	0.002	0.11	1.1
80	0.002	0.003	0.14	1.2
90	2.24	0.218	0.36	2.0
100	4.82	0.094	0.50	2.7
110	4.70	0.144	0.51	2.6
120	5.50	0.073	0.55	2.5
140	9.30	0.026	0.89	5.1
160	9.32	0.026	0.90	5.4
180	10.30	0.018	0.99	6.6
200	9.30	0.019	0.96	3.3

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.39	34.31	0.048	0.029	37.37
19	29.09	34.22	0.047	0.045	48.81
40	28.94	34.24	0.051	0.049	49.04
60	28.42	34.37	0.068	0.072	51.50
80	27.93	34.12	0.136	0.148	52.15
90	25.44	34.85	0.382	0.405	51.45
100	25.07	35.07	0.354	0.441	55.50
110	25.08	34.95	0.362	0.492	57.63
120	24.39	34.68	0.225	0.307	57.75
140	22.36	35.10	0.053	0.116	68.51
160	21.47	34.88			
180	20.39	35.10	0.033	0.082	71.07
200	20.16	35.55			

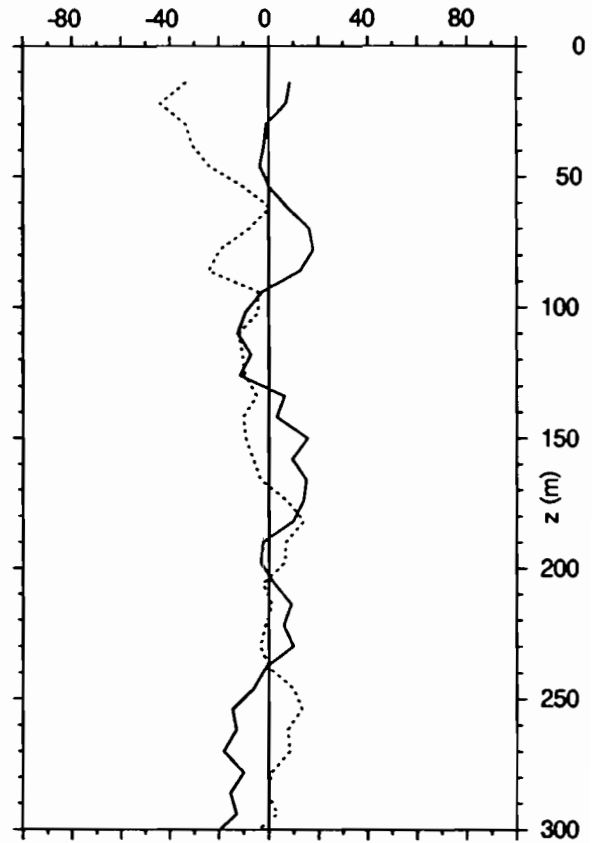
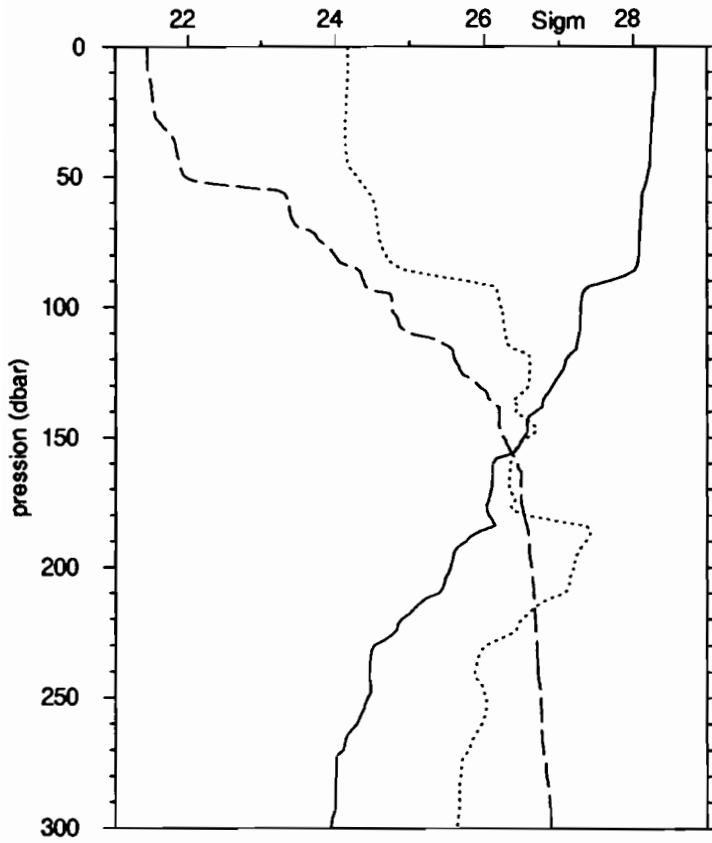
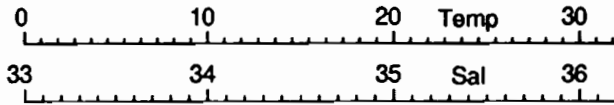


# EQUALIS -station 77

17/11/92, 16h 2 TU

1°30 S 156°15 E

18/11/92, 2h 2 locale

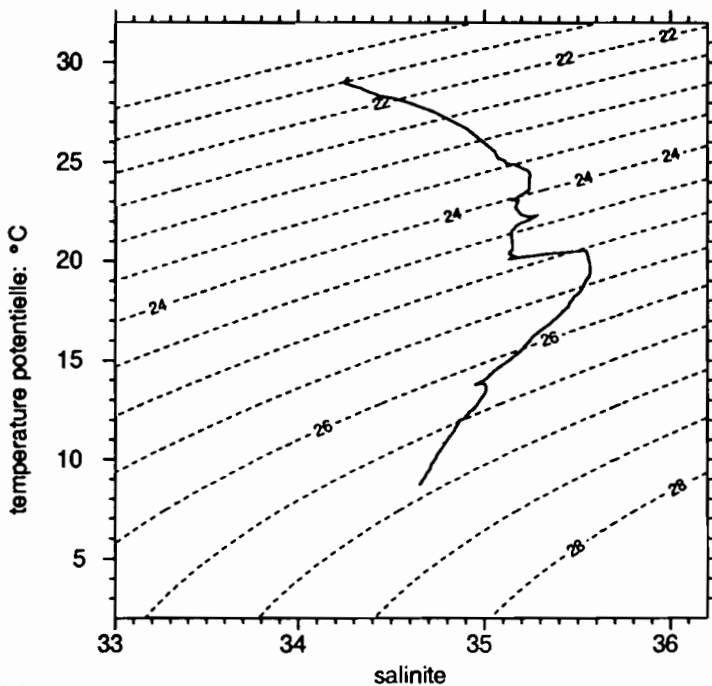


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.225	34.269
fin	500.0	8.755	34.650

	Z	U	V
debut	14.0	8.4	-33.4
fin	382.0	-18.5	-1.3



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.228	34.269		
20.0	29.102	34.258	7.4	-41.3
30.0	29.022	34.253	-1.0	-33.5
40.0	28.951	34.257	-2.2	-29.1
50.0	28.775	34.315	-1.6	-17.0
75.0	28.328	34.439	17.3	-15.1
100.0	25.164	35.088	-7.6	-4.1
125.0	24.102	35.241	-10.9	-9.5
150.0	22.090	35.231	15.6	-9.2
200.0	18.176	35.475	-1.8	4.2
250.0	13.727	35.011	-10.1	11.5
300.0	11.748	34.853	-19.6	-3.9
400.0	10.290	34.746		
500.0	8.755	34.650		

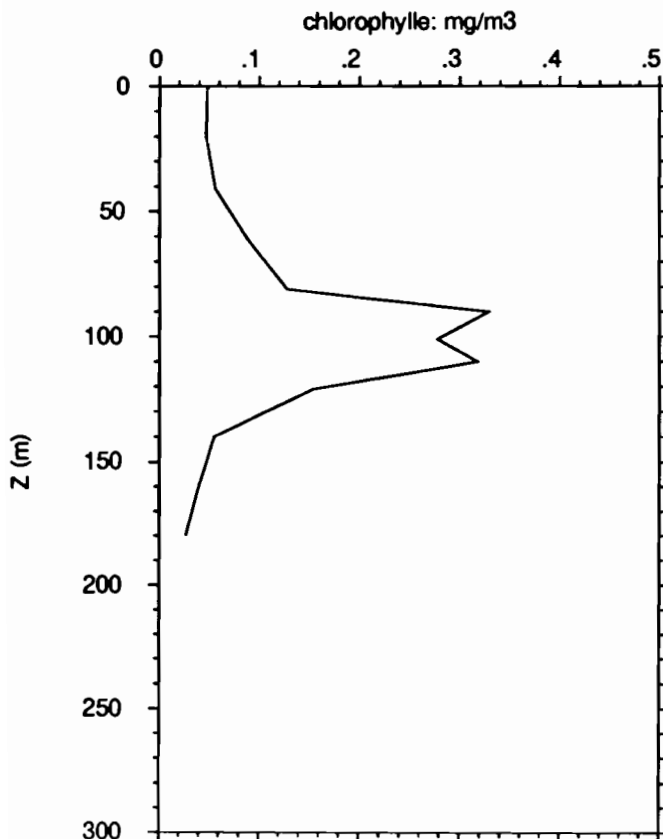
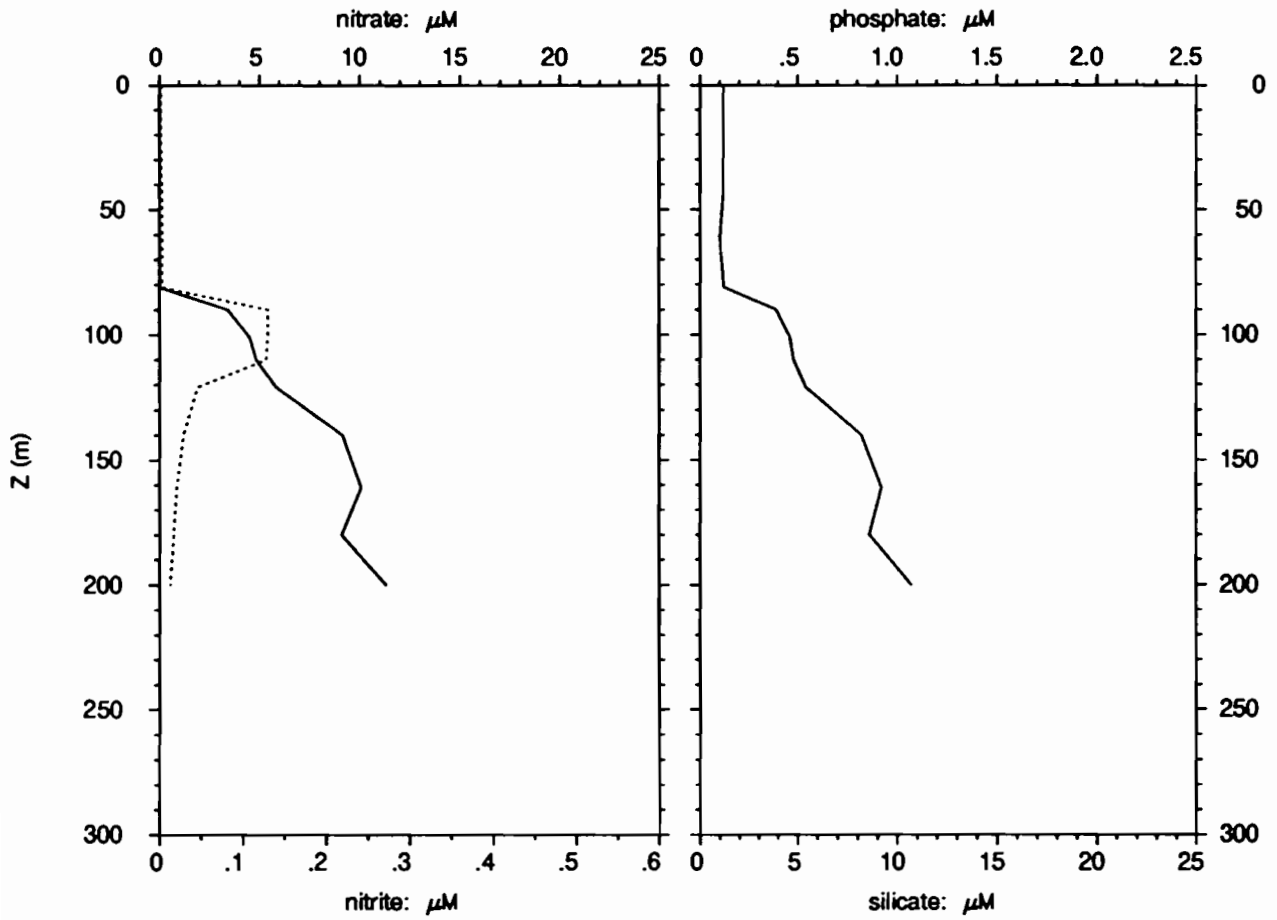
# EQUALIS - station 77

1°30 S 156°15 E

17/11/92, 16h 2 TU

18/11/92, 2h 2 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.002	0.12	
20	0.002	0.002	0.12	
41	0.005	0.003	0.12	
61	0.001	0.003	0.10	
81	0.004	0.003	0.12	
90	3.42	0.130	0.39	
101	4.51	0.130	0.46	
110	4.84	0.128	0.48	
121	5.84	0.046	0.54	
140	9.17	0.029	0.82	
161	10.08	0.021	0.92	
180	9.10	0.017	0.86	
200	11.32	0.013	1.07	

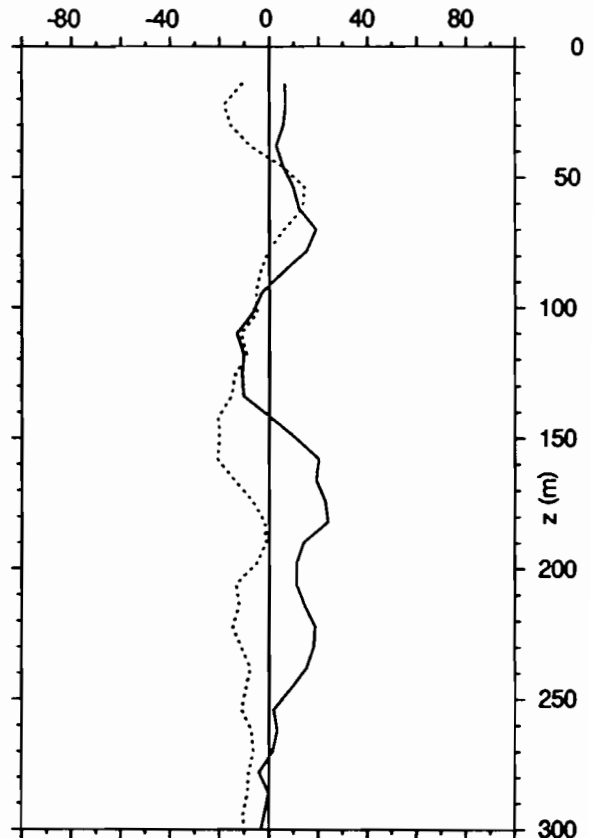
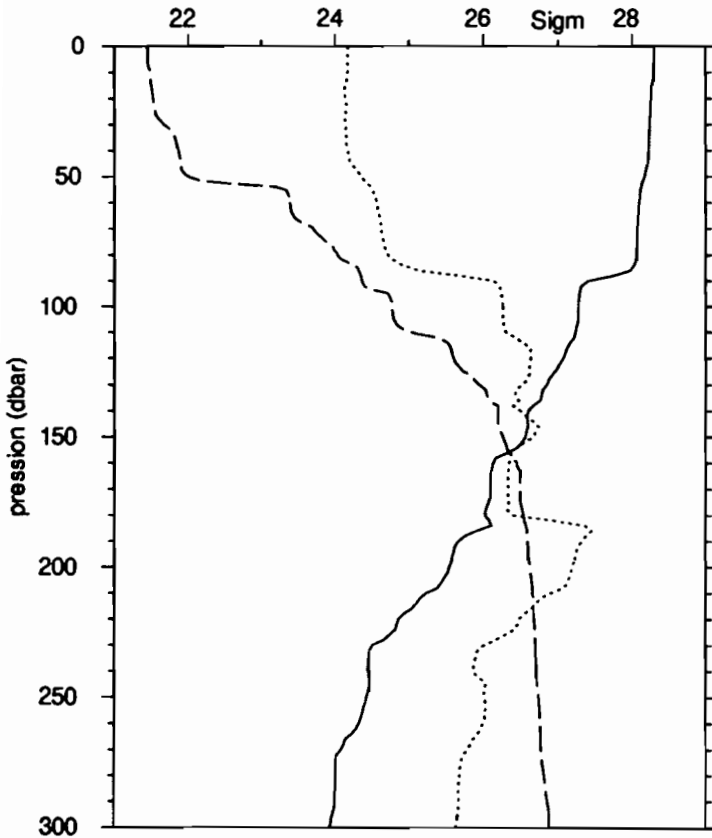
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.33	34.30	0.048	0.043	46.88
20	29.06	35.24	0.047	0.042	47.26
41	28.93	34.26	0.056	0.060	51.75
61	28.42	34.41	0.088	0.080	47.80
81	28.23	33.87	0.128	0.117	47.92
90	25.32	34.98	0.329	0.379	53.56
101	25.13	35.02	0.278	0.388	58.22
110	25.00	34.79	0.318	0.392	55.24
121	24.31	34.84	0.154	0.245	61.44
140	22.40	34.31	0.055	0.132	70.49
161	20.46	35.08	0.039	0.095	70.76
180	20.01	34.01		0.074	
200	17.93	35.43			

# EQUALIS -station 78

17/11/92, 19h 1 TU

1°30 S 156°15 E

18/11/92, 5h 1 locale

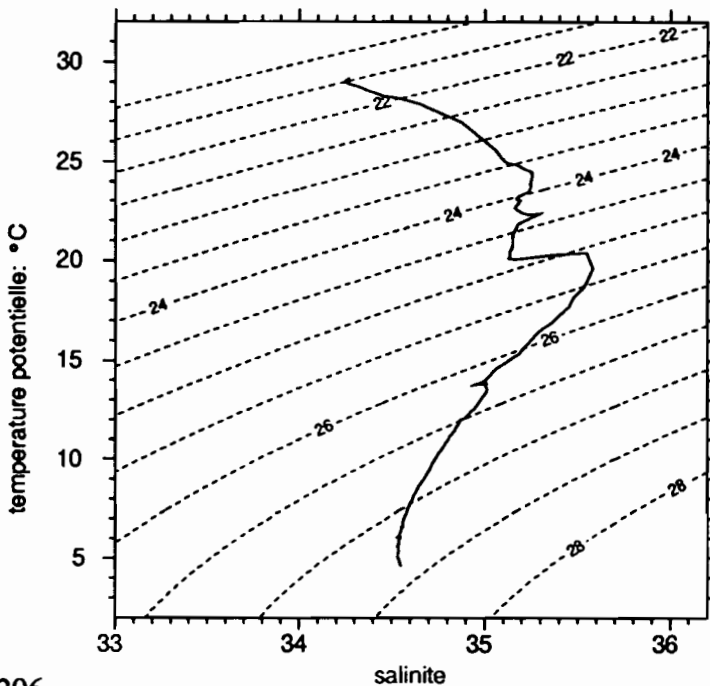


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.198	34.268
fin	998.0	4.685	34.549

	Z	U	V
debut	14.0	6.3	-10.8
fin	358.0	-8.6	-13.0



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.198	34.268		
20.0	29.055	34.253	6.6	-16.3
30.0	28.978	34.253	5.7	-15.4
40.0	28.917	34.268	3.6	-4.3
50.0	28.704	34.340	7.8	9.9
75.0	28.301	34.461	16.7	2.2
100.0	25.118	35.104	-5.6	-4.9
125.0	23.840	35.245	-10.7	-13.1
150.0	22.255	35.268	10.9	-20.0
200.0	18.166	35.473	11.2	-7.1
250.0	13.684	35.009	5.4	-10.1
300.0	11.712	34.854	-3.2	-10.1
400.0	10.313	34.751		
500.0	8.826	34.658		
600.0	6.946	34.561		
700.0	6.339	34.545		
800.0	5.710	34.534		
900.0	5.114	34.533		

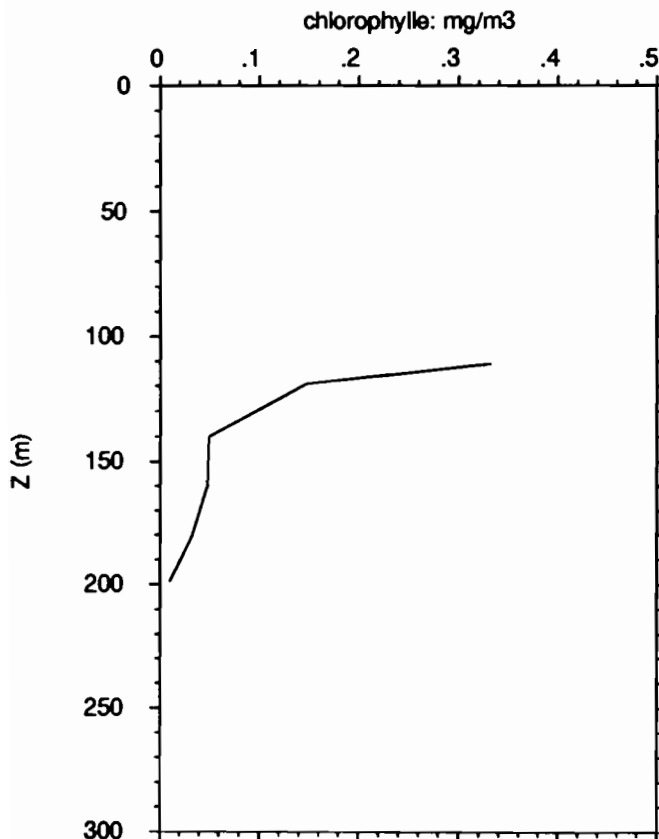
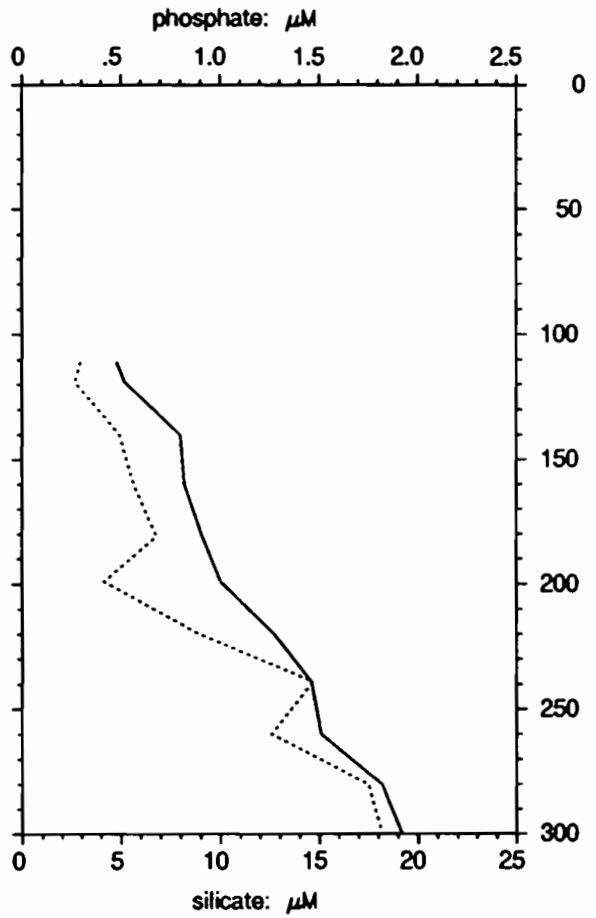
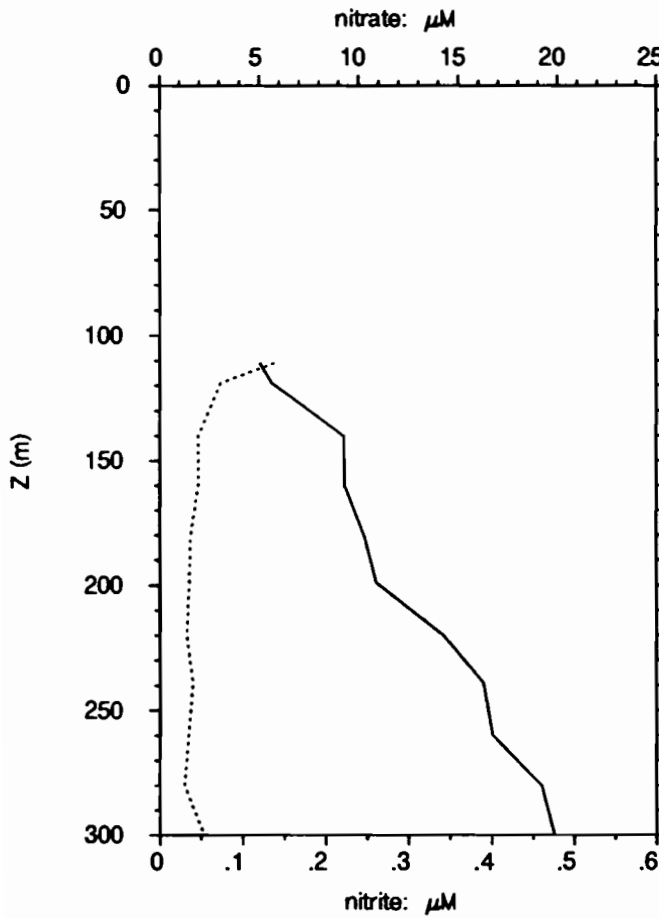
# EQUALIS - station 78

1°30 S 156°15 E

17/11/92, 19h 1 TU

18/11/92, 5h 1 locale

— nitrate  
 ..... nitrite  
 — phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
111	5.05	0.138	0.48	3.0
119	5.63	0.074	0.52	2.7
140	9.24	0.047	0.80	4.9
160	9.30	0.047	0.82	5.6
181	10.30	0.037	0.91	6.8
199	10.88	0.036	1.00	4.2
220	14.23	0.033	1.27	8.9
239	16.25	0.040	1.46	14.7
260	16.70	0.035	1.51	12.6
280	19.18	0.030	1.82	17.5
300	19.83	0.054	1.92	18.2
1000	27.69	0.060	3.26	60.9

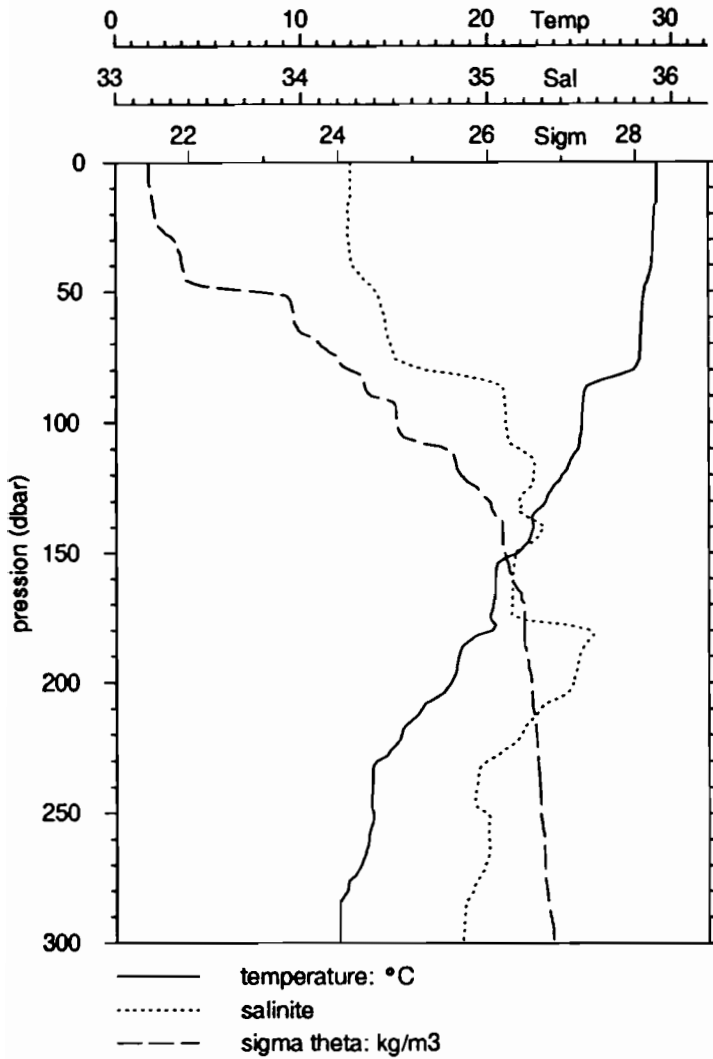
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
111	24.92	34.70	0.332	0.422	55.92
119	24.33	34.57	0.147	0.243	62.34
140	22.54	34.84	0.050	0.123	70.88
160	20.96	34.54	0.048	0.107	69.09
181	20.12	34.56	0.032	0.073	69.71
199	18.28	34.49	0.010	0.041	80.32
220	15.40	34.45			
239	13.81	34.60			
260	13.43	34.30			
280	12.05	34.81			
300	11.88	34.85			
1000	4.69	34.54			

# EQUALIS -station 79

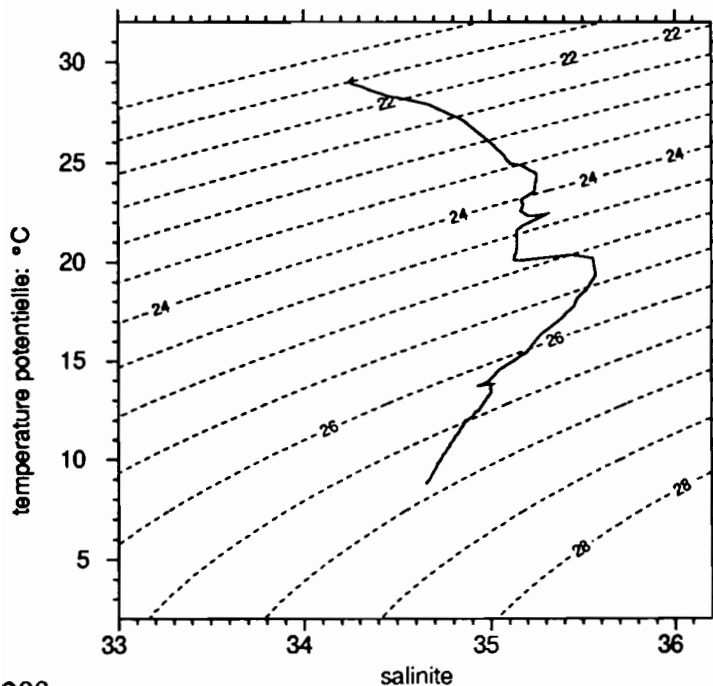
17/11/92, 20h 8 TU

1°30 S 156°15 E

18/11/92, 6h 8 locale



	P	T	S
debut	6.0	29.187	34.264
fin	498.0	8.831	34.653



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.187	34.265		
20.0	29.048	34.250		
30.0	28.973	34.255		
40.0	28.887	34.274		
50.0	28.480	34.399		
75.0	28.240	34.503		
100.0	25.081	35.095		
125.0	23.483	35.222		
150.0	21.625	35.143		
200.0	18.017	35.463		
250.0	13.847	34.994		
300.0	12.013	34.863		
400.0	10.417	34.757		

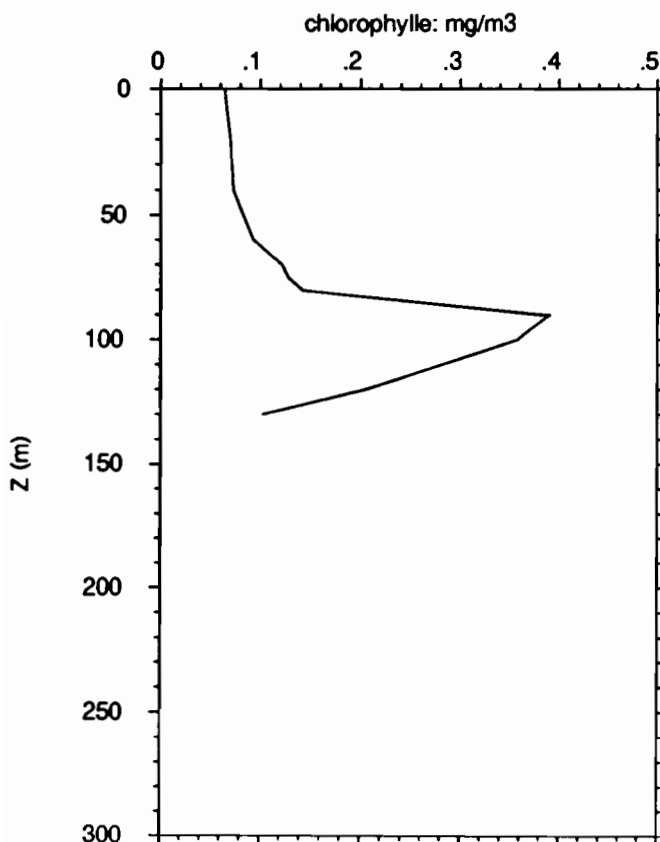
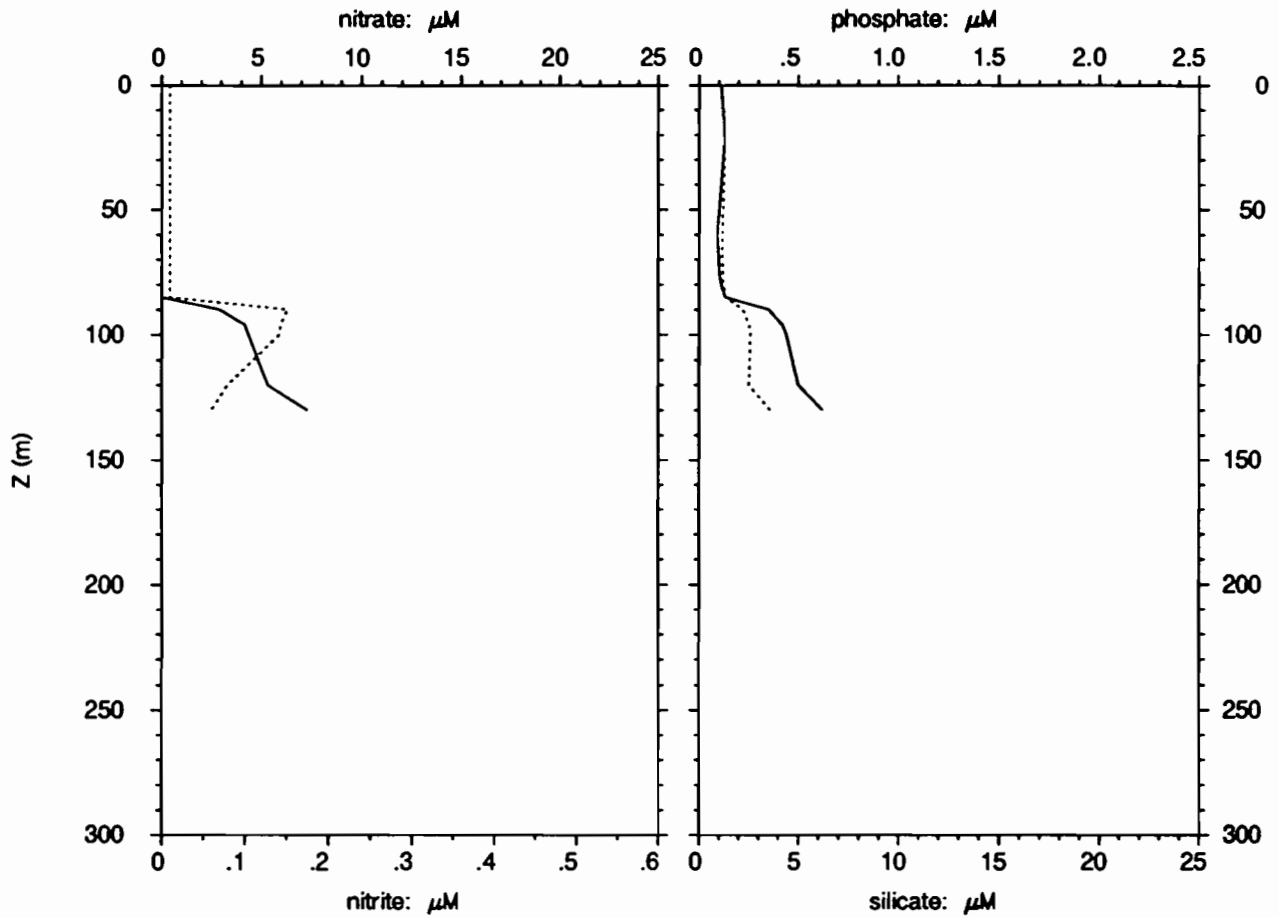
# EQUALIS - station 79

1°30 S 156°15 E

17/11/92, 20h 8 TU

18/11/92, 6h 8 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.010	0.11	1.1
20	0.000	0.010	0.13	1.3
40	0.000	0.010	0.11	1.2
60	0.000	0.010	0.09	1.2
70	0.000	0.010	0.10	1.2
75	0.001	0.010	0.10	1.2
80	0.000	0.010	0.11	1.2
85	0.000	0.010	0.13	1.3
90	2.89	0.151	0.35	2.2
96	4.16	0.143	0.42	2.5
100	4.34	0.141	0.44	2.6
120	5.32	0.079	0.50	2.5
130	7.29	0.060	0.62	3.6

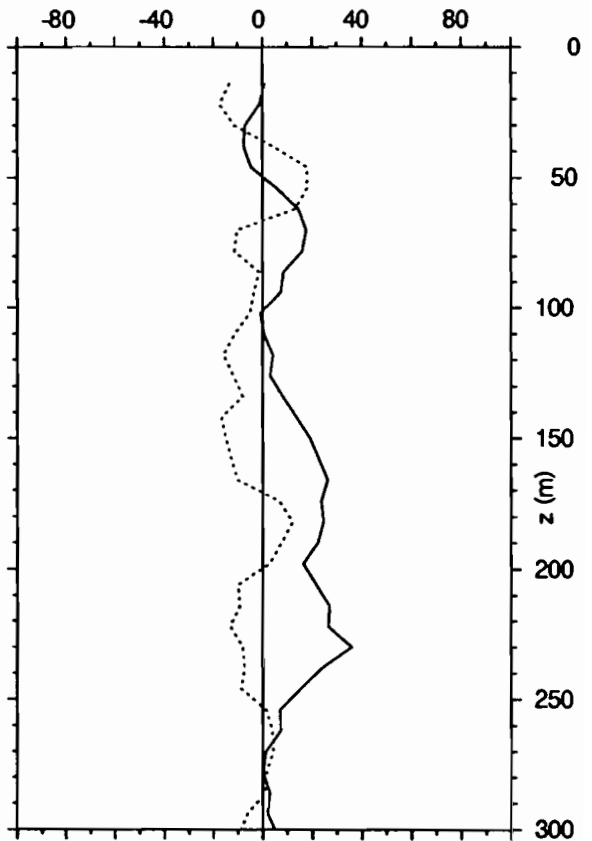
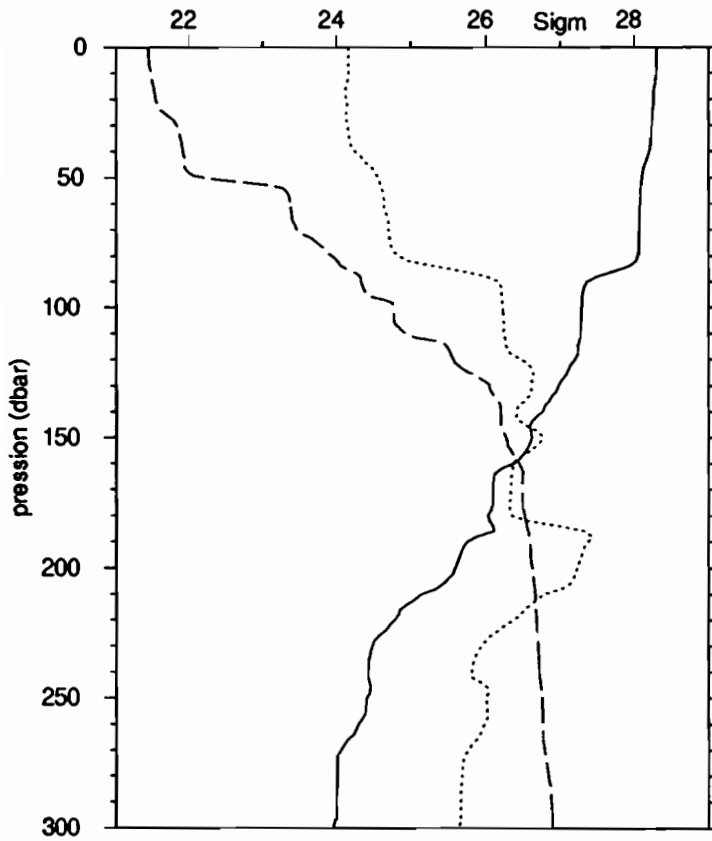
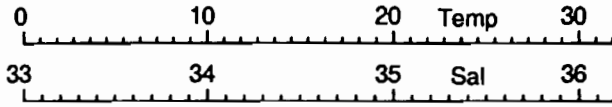
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.30	34.30	0.064	0.055	46.42
20	29.05	34.24	0.070	0.068	49.28
40	28.89	34.16	0.073	0.061	45.47
60	28.39	34.40	0.093	0.074	44.27
70	28.30	34.44	0.122	0.105	46.20
75	28.27	34.41	0.128	0.112	46.65
80	28.20	34.29	0.142	0.124	46.80
85	27.59	33.65			
90	25.25	35.02	0.391	0.415	51.49
96	25.14	35.06	0.370	0.423	53.34
100	25.12	35.08	0.358	0.415	53.72
120	24.29	34.63	0.205	0.284	58.10
130	23.46	35.19	0.103	0.184	64.08

# EQUALIS -station 80

17/11/92, 22h 2 TU

1°30 S 156°15 E

18/11/92, 8h 2 locale

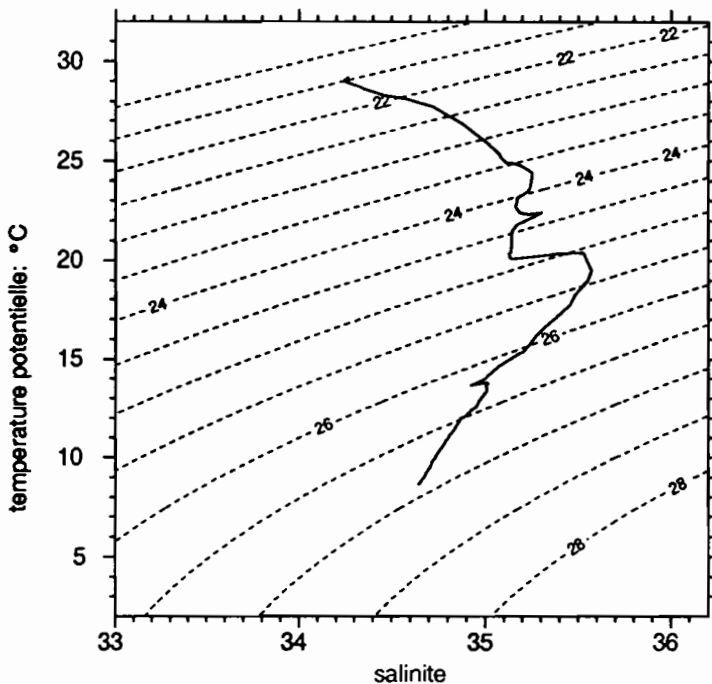


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.208	34.264
fin	504.0	8.698	34.646

	Z	U	V
debut	14.0	1.0	-13.3
fin	398.0	2.8	2.4



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.196	34.265		
20.0	29.039	34.250	-0.7	-16.4
30.0	28.948	34.258	-7.0	-11.3
40.0	28.822	34.298	-6.8	7.6
50.0	28.420	34.423	0.7	18.0
75.0	28.262	34.488	16.6	-11.0
100.0	25.143	35.089	1.2	-4.7
125.0	24.365	35.253	3.2	-12.3
150.0	22.455	35.303	19.2	-14.9
200.0	18.356	35.491	17.8	-0.4
250.0	13.639	35.004	11.2	-3.6
300.0	11.817	34.858	4.9	-8.8
400.0	10.254	34.745		
500.0	8.720	34.647		

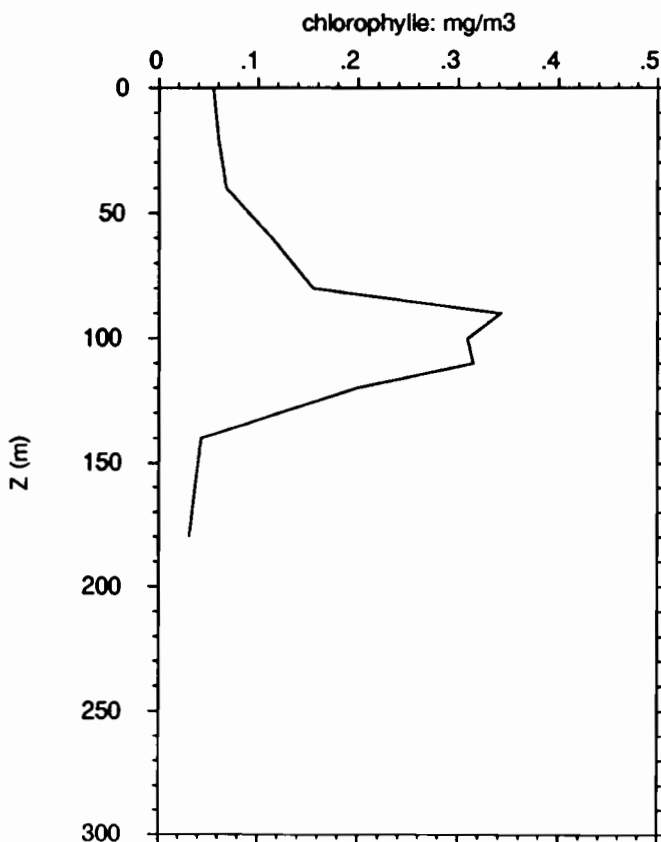
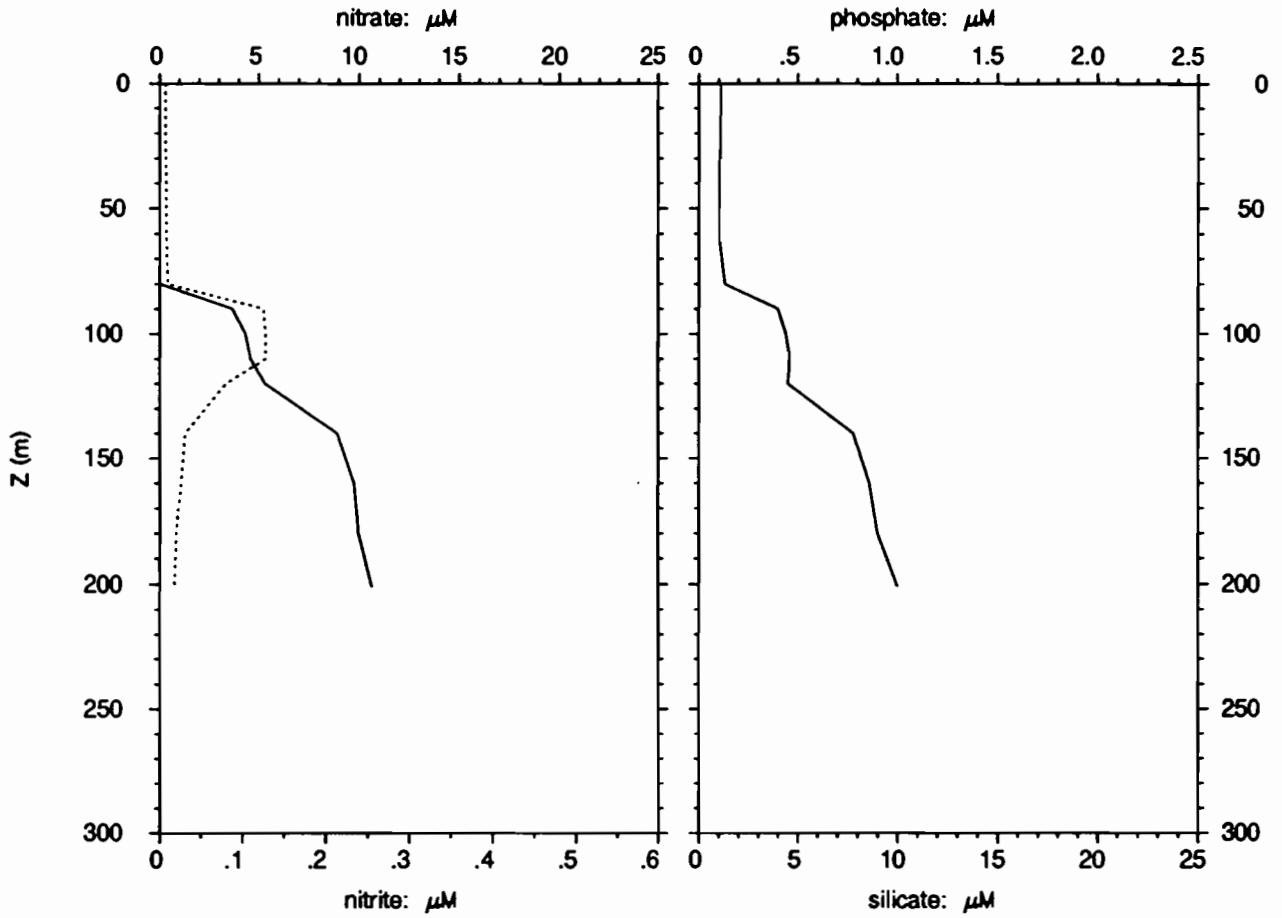
# EQUALIS - station 80

1° 30 S 156° 15 E

17/11/92, 22h 2 TU

18/11/92, 8h 2 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.007	0.11	
20	0.000	0.007	0.11	
40	0.002	0.008	0.10	
60	0.001	0.008	0.10	
80	0.021	0.010	0.13	
90	3.66	0.125	0.40	
100	4.32	0.128	0.44	
110	4.58	0.128	0.46	
120	5.30	0.080	0.45	
140	8.90	0.031	0.78	
160	9.74	0.026	0.86	
180	9.95	0.020	0.90	
201	10.62	0.018	1.00	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.43	34.30	0.055	0.038	40.73
20	29.04	34.14	0.060	0.054	47.67
40	28.71	34.24	0.068	0.077	52.85
60	28.30	34.27	0.114	0.099	46.56
80	27.90	33.48	0.155	0.171	52.45
90	25.23	35.01	0.342	0.427	55.49
100	25.14	34.04	0.309	0.397	56.24
110	25.06	34.71	0.315	0.382	54.76
120	24.38	34.35	0.199	0.311	60.98
140	22.42	34.76	0.043	0.102	70.58
160	20.50	34.98	0.037	0.104	73.73
180	20.16	34.78	0.031	0.053	63.27
201	18.30	35.47			

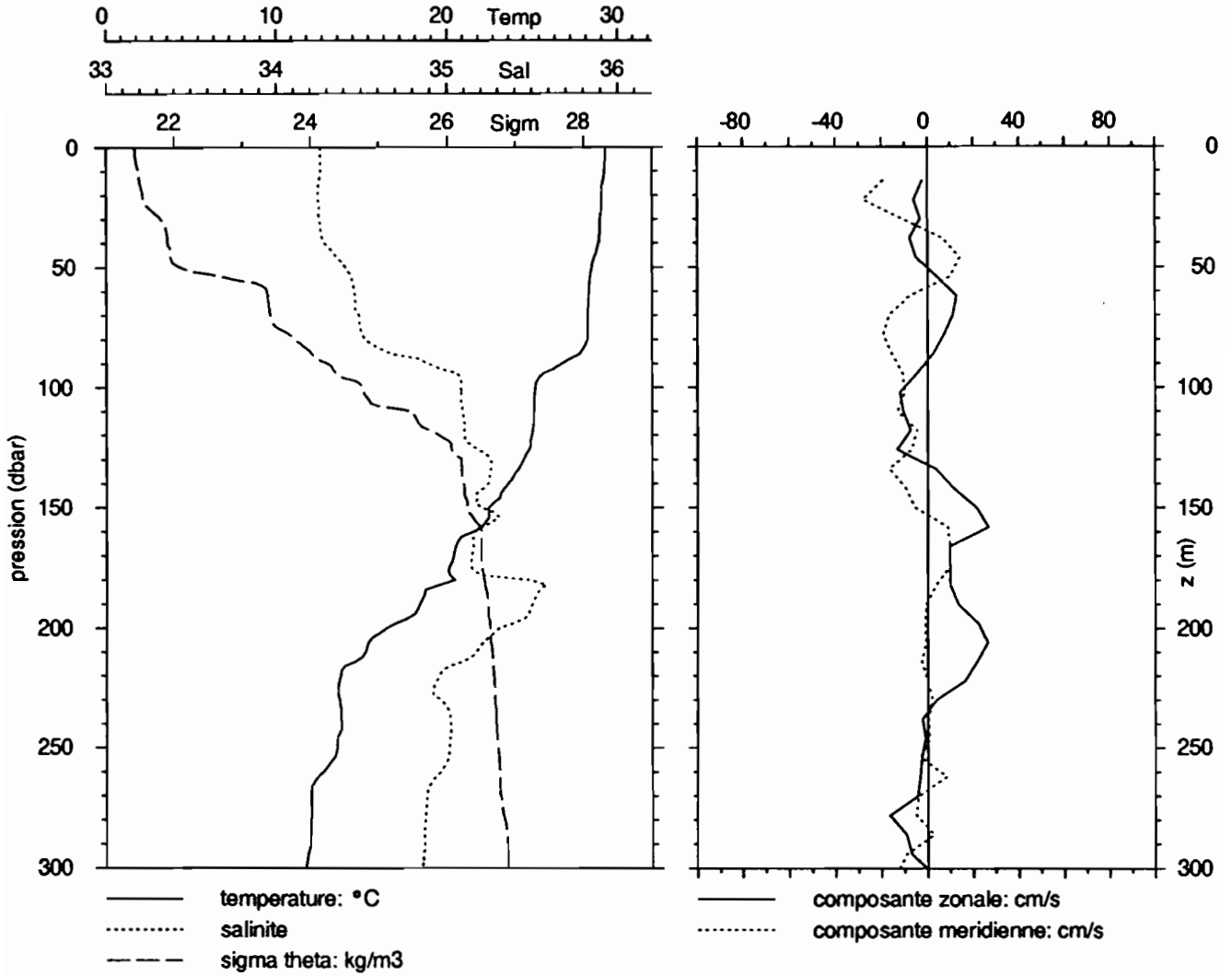


# EQUALIS -station 81

18/11/92, 1h 0 TU

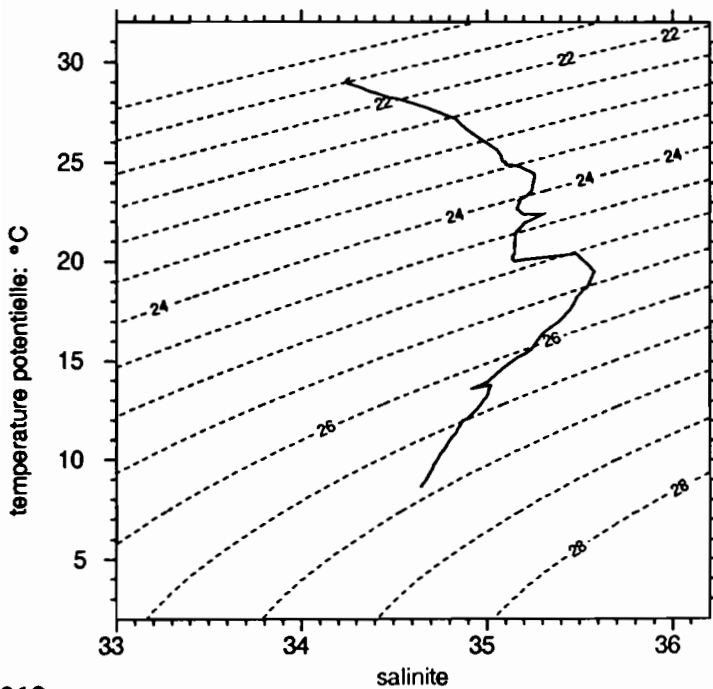
1°30 S 156°15 E

18/11/92, 11h 0 locale



	P	T	S
debut	6.0	29.265	34.260
fin	506.0	8.686	34.646

	Z	U	V
debut	14.0	-2.2	-19.4
fin	398.0	-3.7	-6.9



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.220	34.261		
20.0	29.048	34.244	-5.0	-25.9
30.0	28.955	34.252	-3.1	-11.1
40.0	28.862	34.283	-7.1	8.4
50.0	28.468	34.407	-0.4	12.0
75.0	28.247	34.494	8.7	-18.3
100.0	25.167	35.080	-10.1	-10.2
125.0	24.861	35.158	-12.5	-6.6
150.0	22.416	35.199	21.4	-5.5
200.0	16.457	35.302	23.3	-1.0
250.0	13.571	35.009	-1.8	-1.1
300.0	11.701	34.852	-0.4	-12.2
400.0	10.273	34.748		
500.0	8.701	34.648		

# EQUALIS - station 81

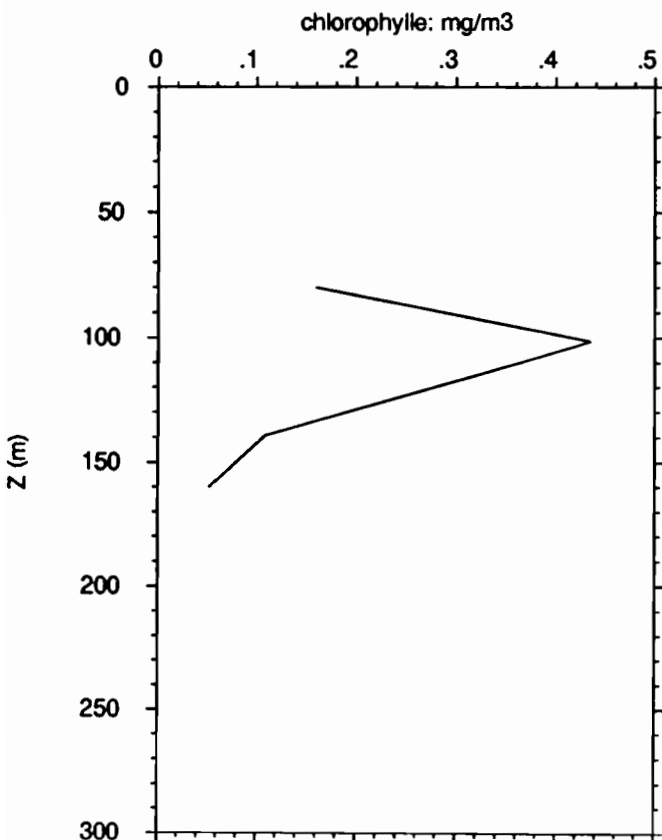
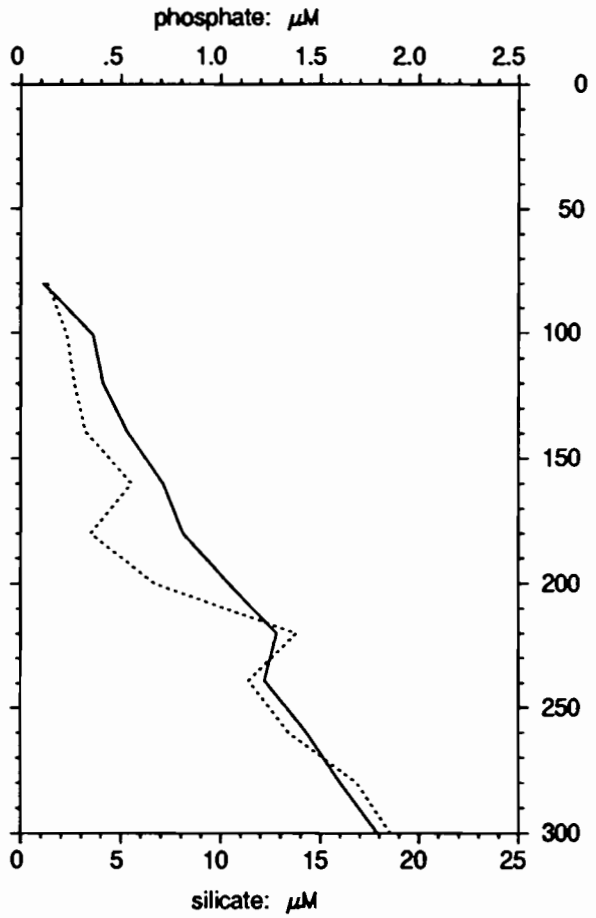
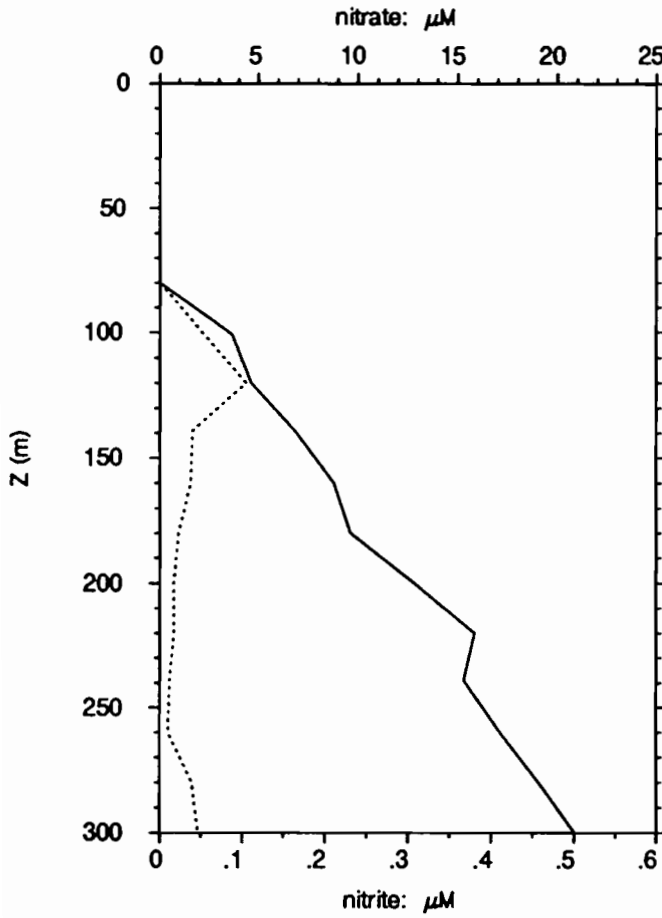
1°30 S 156°15 E

18/11/92, 1h 0 TU

18/11/92, 11h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
80	0.000	0.000	0.11	1.3
101	3.67	0.054	0.36	2.3
120	4.64	0.105	0.41	2.7
139	6.84	0.040	0.53	3.2
160	8.79	0.038	0.71	5.5
180	9.63	0.023	0.81	3.5
200	12.84	0.017	1.04	6.7
220	15.85	0.017	1.28	13.8
239	15.30	0.012	1.22	11.4
260	17.12	0.010	1.43	13.4
280	19.05	0.039	1.60	16.8
301	20.95	0.047	1.80	18.6

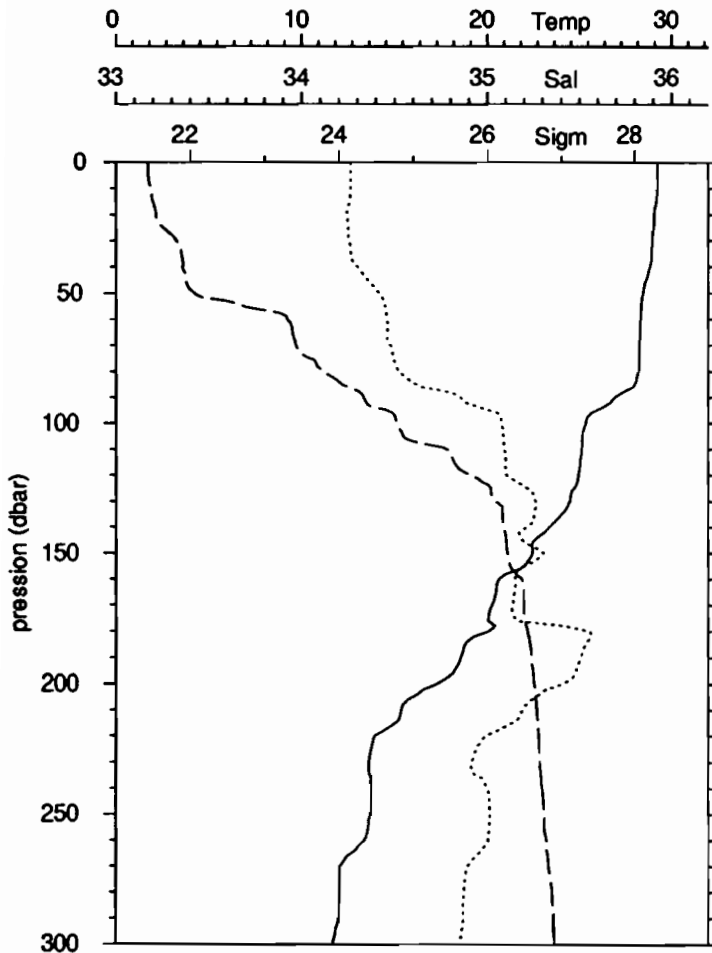
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
80	28.15	33.63	0.160	0.124	43.76
101	25.20	35.05	0.432	0.494	53.40
120	24.97	34.54			
139	23.60	35.21	0.110	0.212	65.91
160	20.89	34.33	0.052	0.104	66.63
180	18.88	33.95			
200	16.01	34.29			
220	14.71	34.91			
239	13.81	34.61			
260	12.56	34.36			
280	12.01	34.64			
301	11.64	34.84			

# EQUALIS -station 82

1°30 S 156°15 E

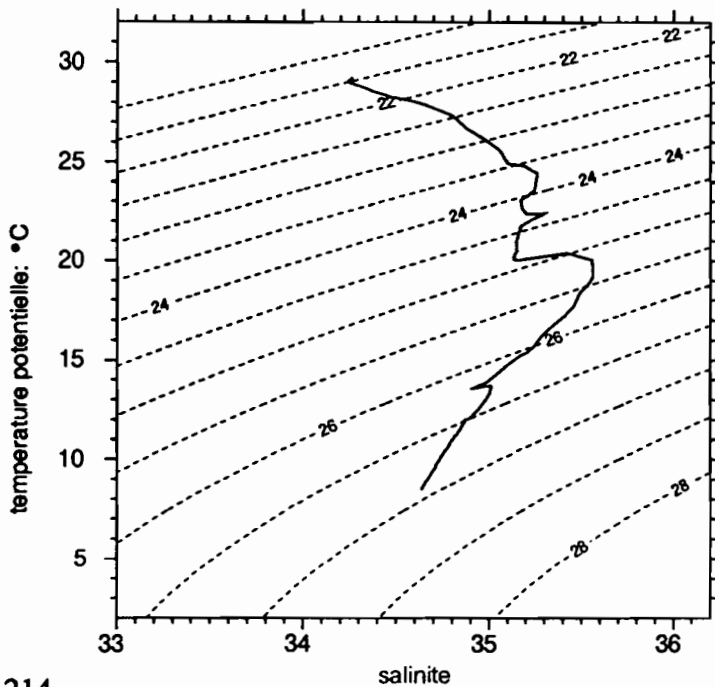
18/11/92, 1h56 TU

18/11/92, 11h56 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	8.0	29.238	34.263
fin	500.0	8.531	34.635



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.218	34.262		
20.0	29.049	34.244		
30.0	28.944	34.255		
40.0	28.820	34.299		
50.0	28.445	34.415		
75.0	28.247	34.494		
100.0	25.327	35.074		
125.0	24.680	35.216		
150.0	22.448	35.303		
200.0	17.242	35.406		
250.0	13.675	35.013		
300.0	11.639	34.847		
400.0	10.089	34.737		
500.0	8.531	34.635		

# EQUALIS - station 82

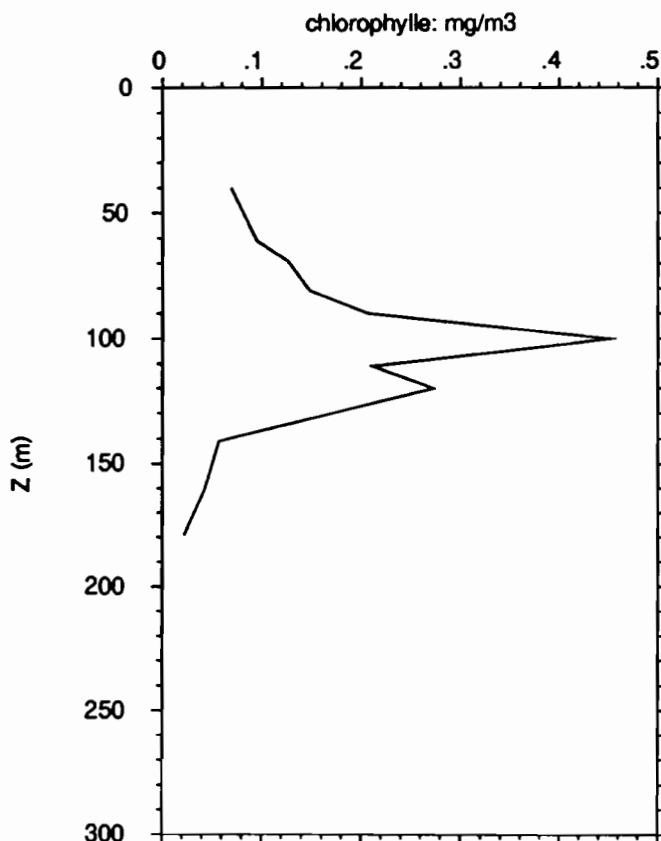
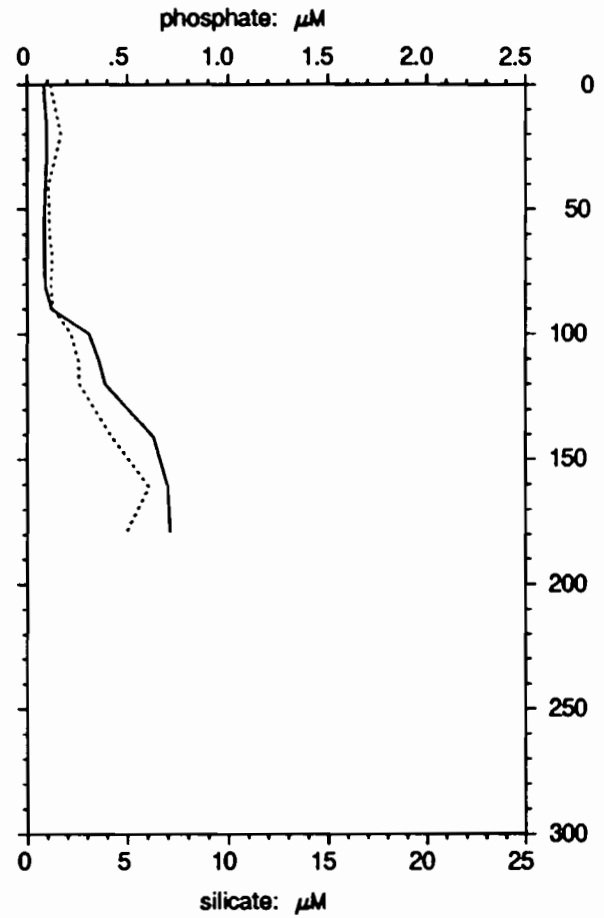
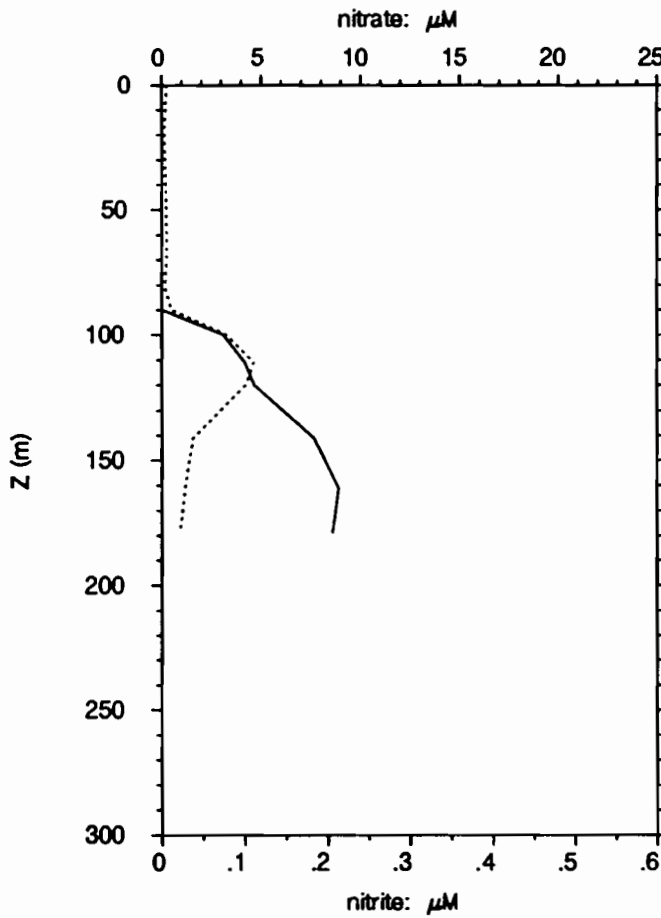
1° 30 S 156° 15 E

18/11/92, 1h56 TU

18/11/92, 11h56 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.006	0.08	1.1
20	0.005	0.003	0.10	1.7
40	0.000	0.005	0.09	1.1
61	0.001	0.006	0.08	1.1
69	0.002	0.006	0.08	1.2
81	0.004	0.004	0.09	1.2
90	0.021	0.012	0.12	1.3
100	3.09	0.078	0.31	2.2
111	4.18	0.111	0.36	2.6
120	4.64	0.101	0.39	2.6
141	7.63	0.038	0.63	4.2
161	8.87	0.028	0.70	6.1
179	8.56	0.022	0.71	5.0

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.63	34.30	0.049	0.011	17.70
20	29.05	34.15			
40	28.74	34.23	0.069	0.066	48.92
61	28.29	34.43	0.095	0.128	57.57
69	28.25	34.39	0.126	0.141	52.69
81	28.17	34.13	0.148	0.169	53.28
90	26.77	34.39	0.207	0.283	57.83
100	25.24	34.97	0.453	0.539	54.35
111	25.04	34.91	0.211	0.670	76.01
120	24.81	34.50	0.273	0.382	58.32
141	22.82	34.53	0.057	0.172	75.04
161	20.56	34.95	0.042	0.107	72.00
179	20.48	35.47	0.022	0.041	64.73

# EQUALIS -station 83

1°30 S 156°15 E

18/11/92, 4h 1 TU

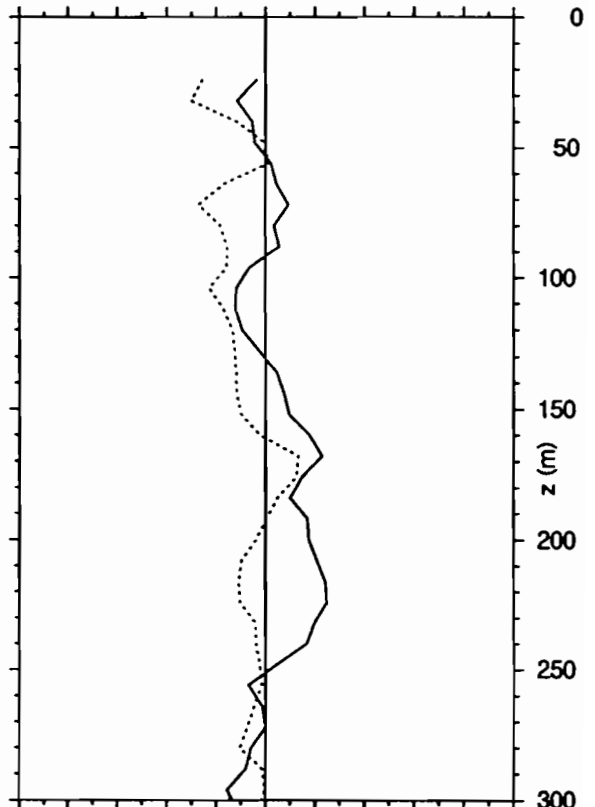
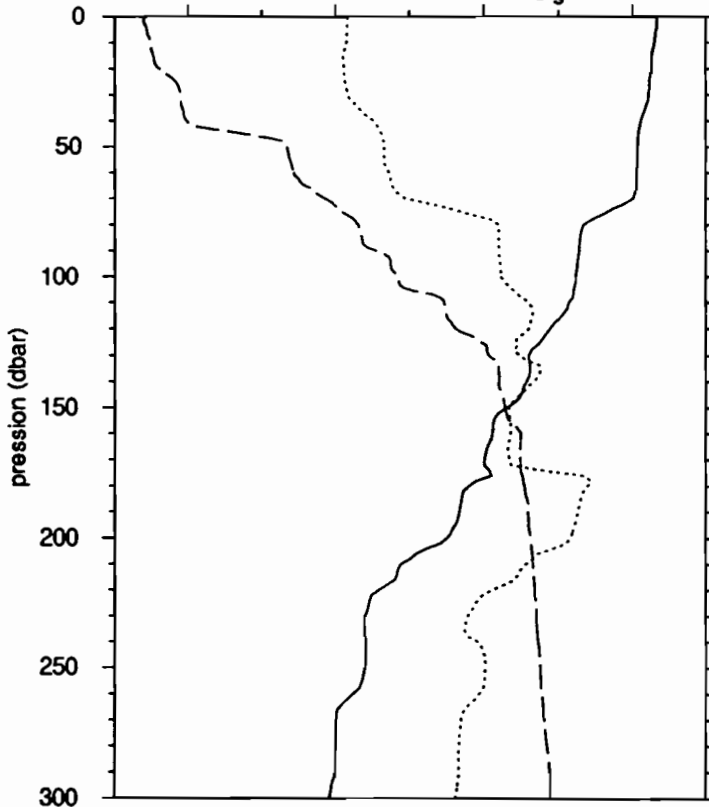
18/11/92, 14h 1 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

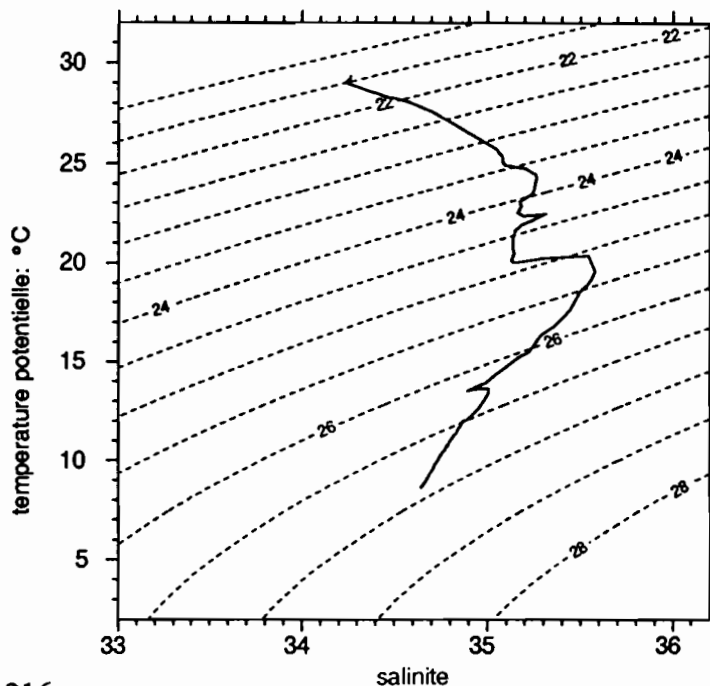


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.338	34.265
fin	500.0	8.636	34.644

	Z	U	V
debut	24.0	-3.4	-25.5
fin	408.0	-5.4	1.2



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.207	34.262		
20.0	29.028	34.249		
30.0	28.906	34.267	-9.5	-29.0
40.0	28.469	34.407	-5.3	-11.7
50.0	28.296	34.465	-2.7	0.0
75.0	26.662	34.876	7.1	-23.9
100.0	24.938	35.092	-9.1	-19.2
125.0	23.006	35.176	-5.1	-12.8
150.0	21.205	35.134	9.2	-10.3
200.0	18.037	35.463	17.6	-3.8
250.0	13.614	35.010	1.9	-2.0
300.0	11.661	34.848	-13.6	-1.9
400.0	10.189	34.742	-6.6	10.0
500.0	8.636	34.644		

# EQUALIS - station 83

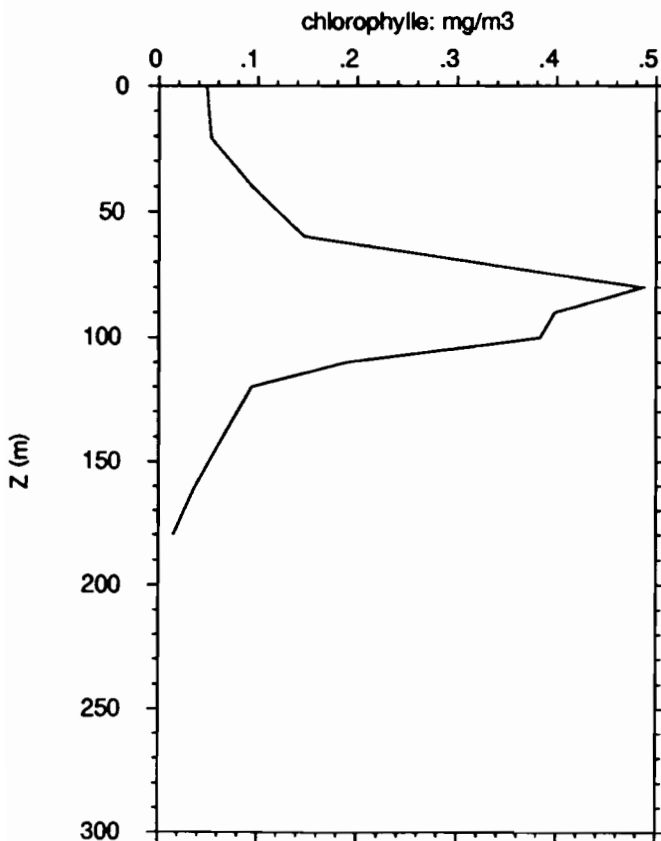
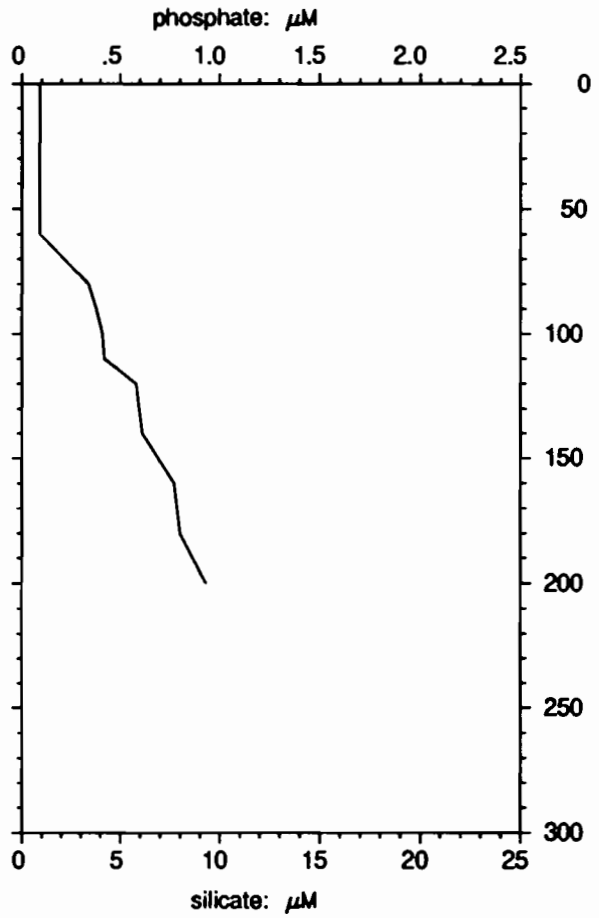
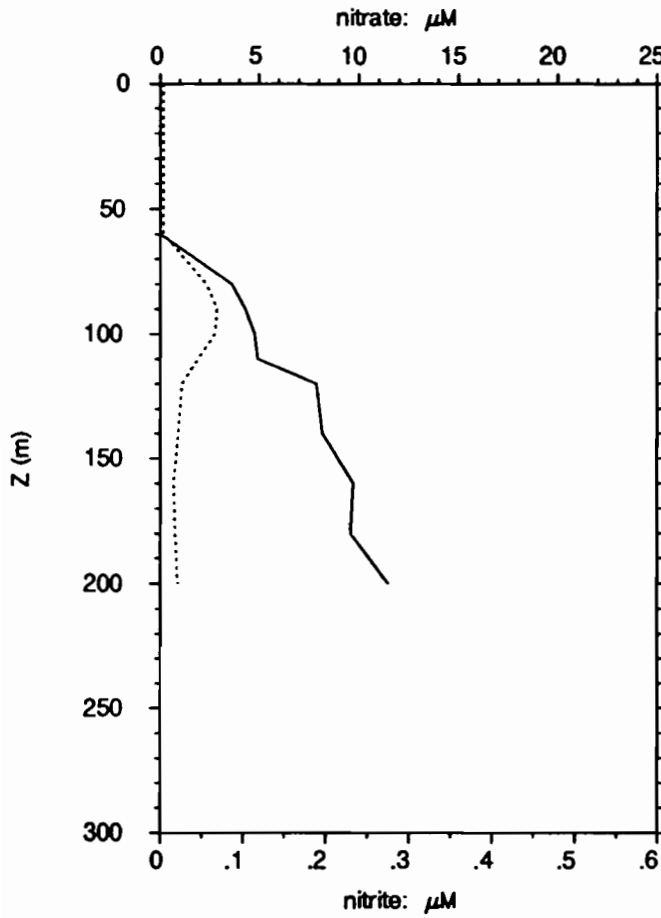
1° 30 S 156° 15 E

18/11/92, 4h 1 TU

18/11/92, 14h 1 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.004	0.09	
21	0.002	0.004	0.09	
40	0.005	0.004	0.09	
60	0.002	0.004	0.09	
80	3.62	0.056	0.34	
90	4.30	0.069	0.38	
100	4.78	0.066	0.41	
110	4.93	0.046	0.42	
120	7.89	0.026	0.58	
140	8.18	0.022	0.61	
160	9.73	0.016	0.77	
180	9.59	0.018	0.80	
200	11.47	0.021	0.93	

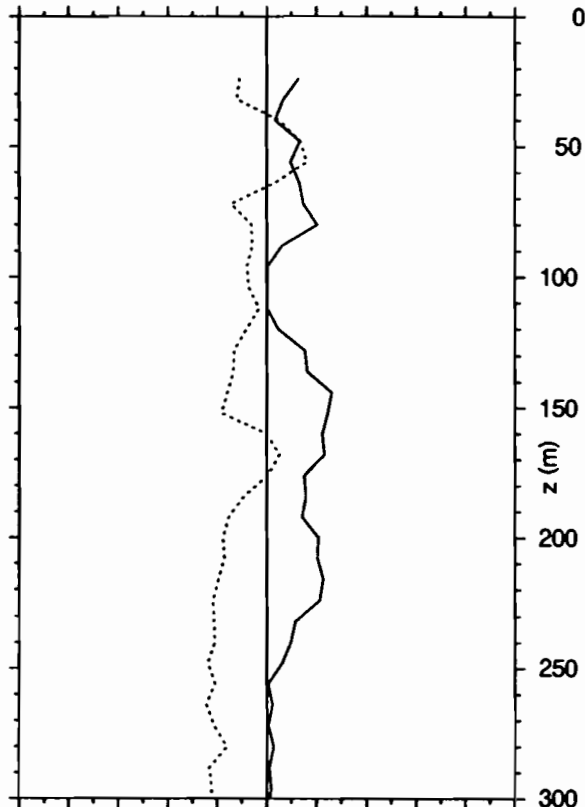
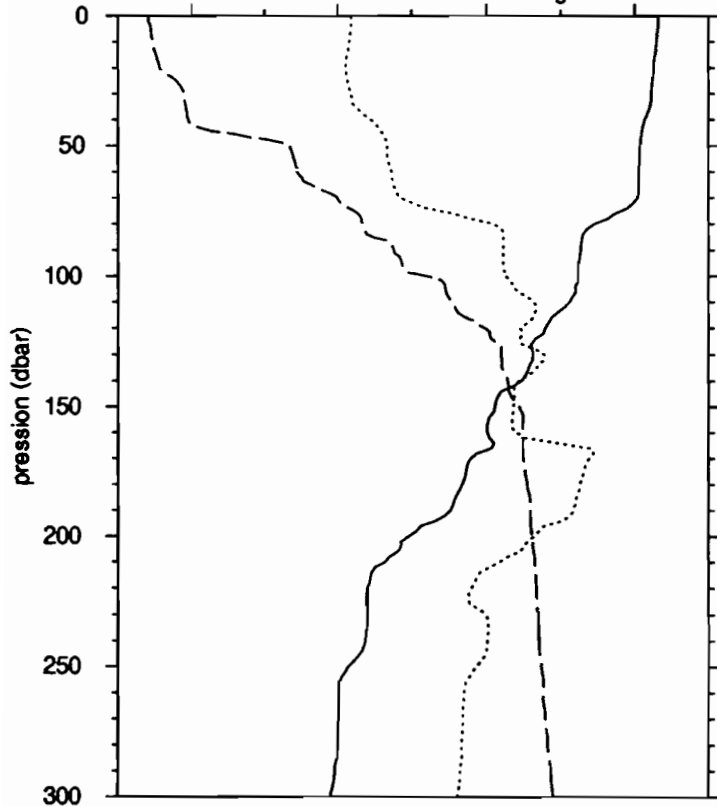
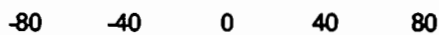
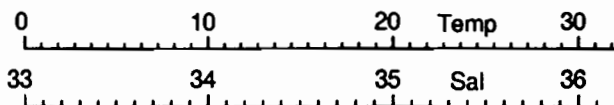
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.99	34.30	0.048	0.051	51.39
21	29.04	34.13	0.053	0.060	53.05
40	28.42	34.30	0.094	0.083	46.97
60	28.24	34.25	0.147	0.137	48.30
80	25.21	34.97	0.486	0.595	55.02
90	25.04	34.97	0.398	0.536	57.37
100	24.94	34.86	0.383	0.527	57.92
110	24.48	34.53	0.190	0.278	59.42
120	23.11	34.68	0.094	0.176	65.24
140	21.92	34.45	0.065	0.142	68.69
160	20.12	34.97	0.037	0.088	70.21
180	18.87	34.96	0.015	0.047	75.10
200	16.84	35.30			

# EQUALIS -station 84

18/11/92, 7h 1 TU

1°30 S 156°15 E

18/11/92, 17h 1 locale

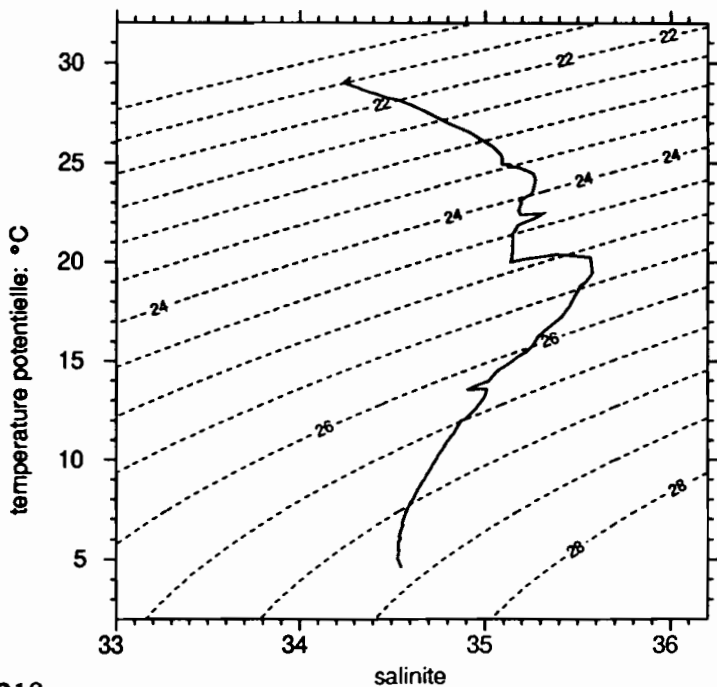


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.302	34.272
fin	998.0	4.685	34.548

	Z	U	V
debut	24.0	12.9	-11.0
fin	384.0	0.0	-13.6



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.189	34.263		
20.0	29.038	34.243		
30.0	28.907	34.271	8.3	-11.8
40.0	28.549	34.381	3.4	5.1
50.0	28.299	34.468	12.5	14.2
75.0	27.295	34.745	16.9	-11.3
100.0	24.957	35.106	0.4	-7.6
125.0	22.524	35.185	11.4	-11.3
150.0	20.472	35.146	25.0	-17.7
200.0	15.839	35.258	20.9	-17.6
250.0	12.564	34.945	4.9	-23.1
300.0	11.620	34.846	1.4	-22.2
400.0	10.358	34.756		
500.0	8.726	34.653		
600.0	7.070	34.564		
700.0	6.382	34.547		
800.0	5.823	34.539		
900.0	5.327	34.535		

# EQUALIS - station 84

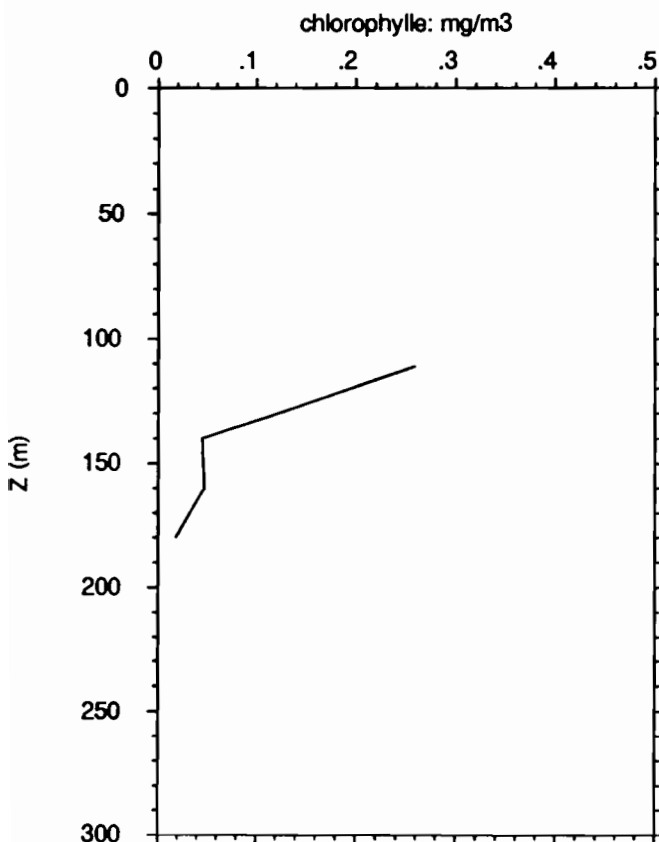
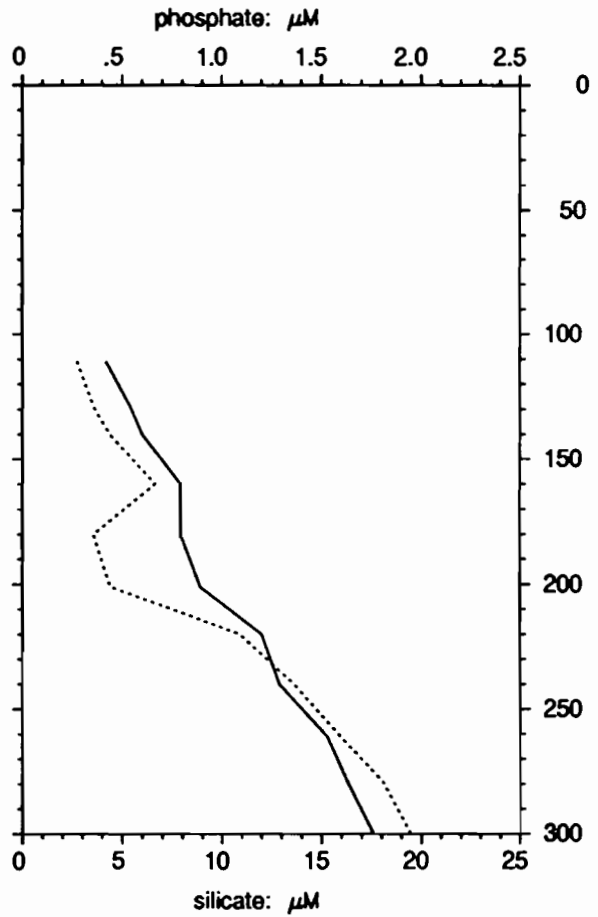
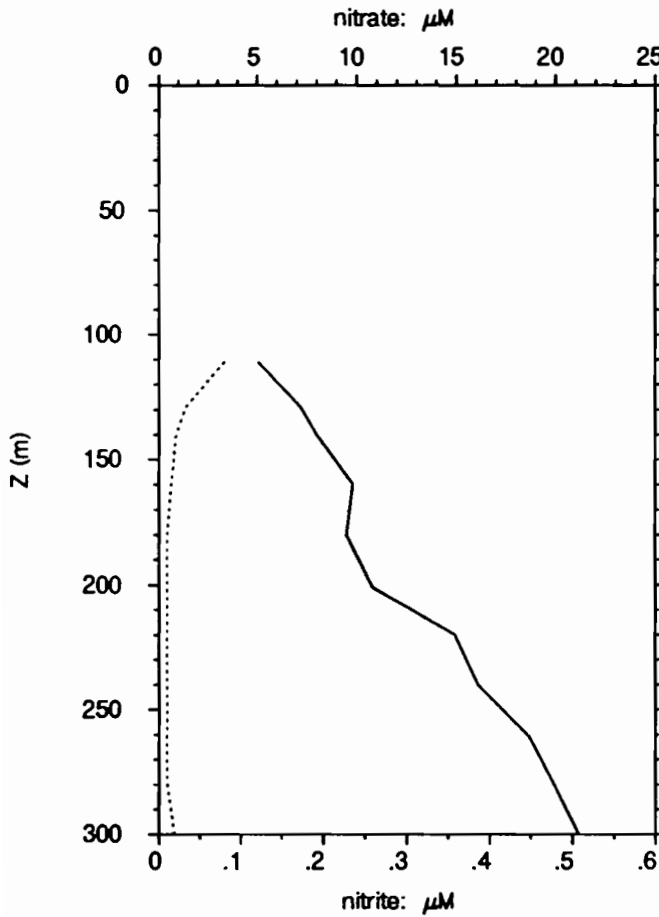
1°30 S 156°15 E

18/11/92, 7h 1 TU

18/11/92, 17h 1 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
111	5.06	0.080	0.42	2.8
129	7.20	0.033	0.54	3.6
140	8.01	0.021	0.60	4.4
160	9.83	0.015	0.79	6.6
180	9.50	0.010	0.79	3.6
201	10.79	0.010	0.89	4.4
220	14.93	0.010	1.20	10.9
240	16.08	0.010	1.29	13.6
261	18.69	0.010	1.53	16.0
279	19.85	0.010	1.63	18.1
300	21.14	0.019	1.76	19.5
1000	31.68	0.029	2.86	63.2

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
111	24.53	34.61	0.259	0.339	56.69
129	23.55	35.22	0.130	0.218	62.51
140	22.32	35.20	0.045	0.093	67.46
160	20.49	34.98	0.047	0.098	67.72
180	19.23	35.19	0.018	0.059	76.79
201	18.06	34.31			
220	14.78	34.53			
240	13.64	34.99			
261	12.46	34.80			
279	12.05	34.78			
300	11.85	34.85			
1000	4.68	34.55			

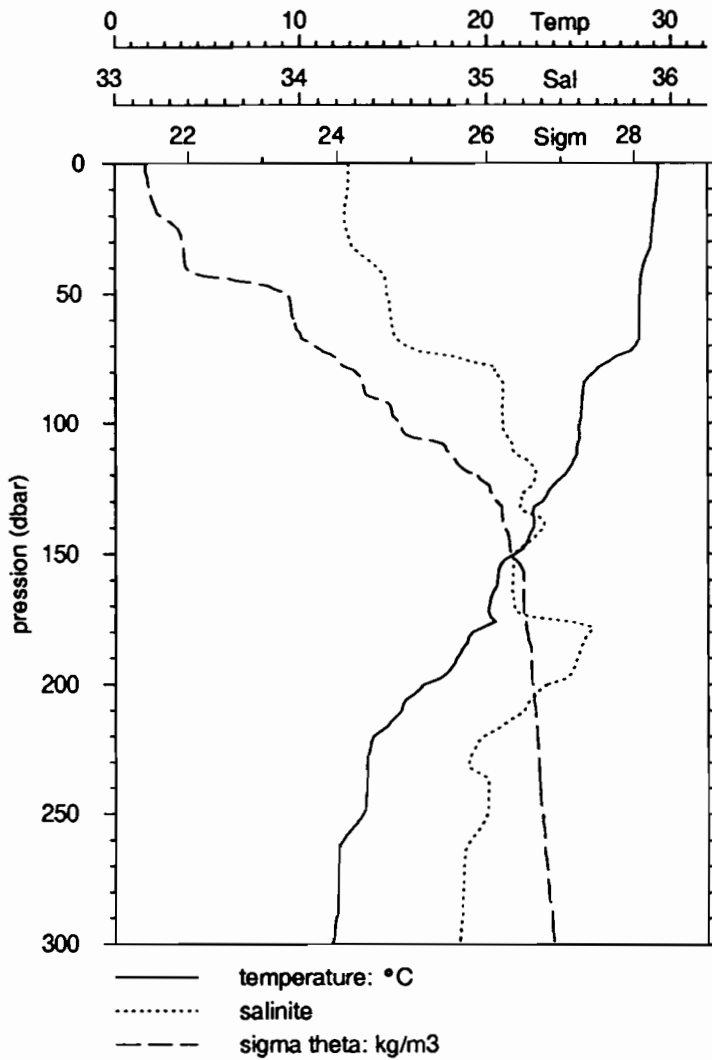


# EQUALIS -station 85

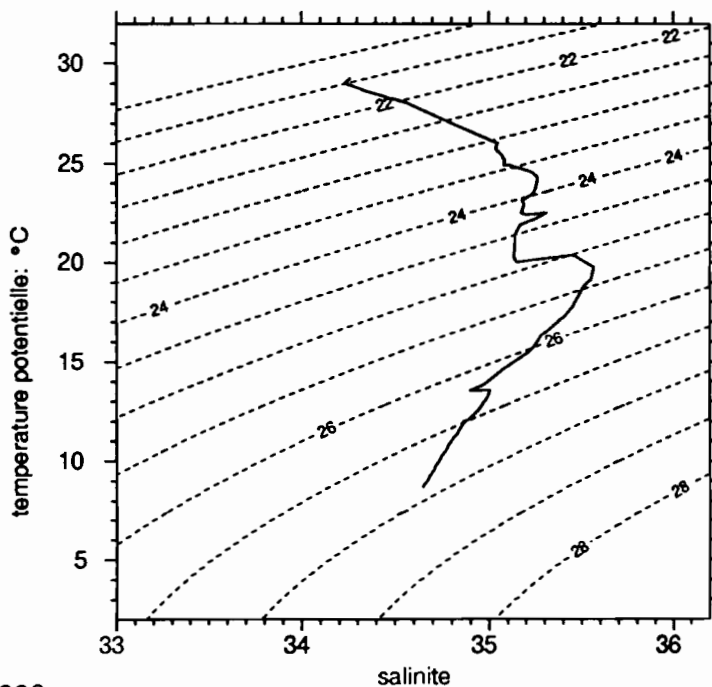
1° 30 S 156° 15 E

18/11/92, 8h 9 TU

18/11/92, 18h 9 locale



	P	T	S
debut	6.0	29.279	34.261
fin	498.0	8.725	34.647



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.196	34.256		
20.0	29.036	34.238		
30.0	28.890	34.271		
40.0	28.445	34.415		
50.0	28.274	34.465		
75.0	26.783	34.862		
100.0	24.989	35.084		
125.0	23.410	35.220		
150.0	21.491	35.143		
200.0	16.597	35.319		
250.0	13.369	34.998		
300.0	11.701	34.849		
400.0	10.344	34.751		

# EQUALIS - station 85

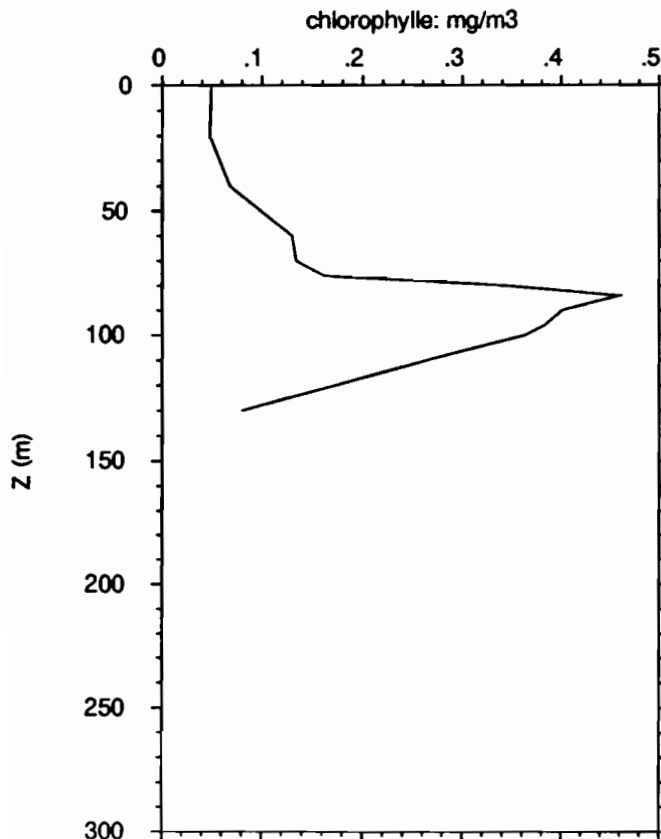
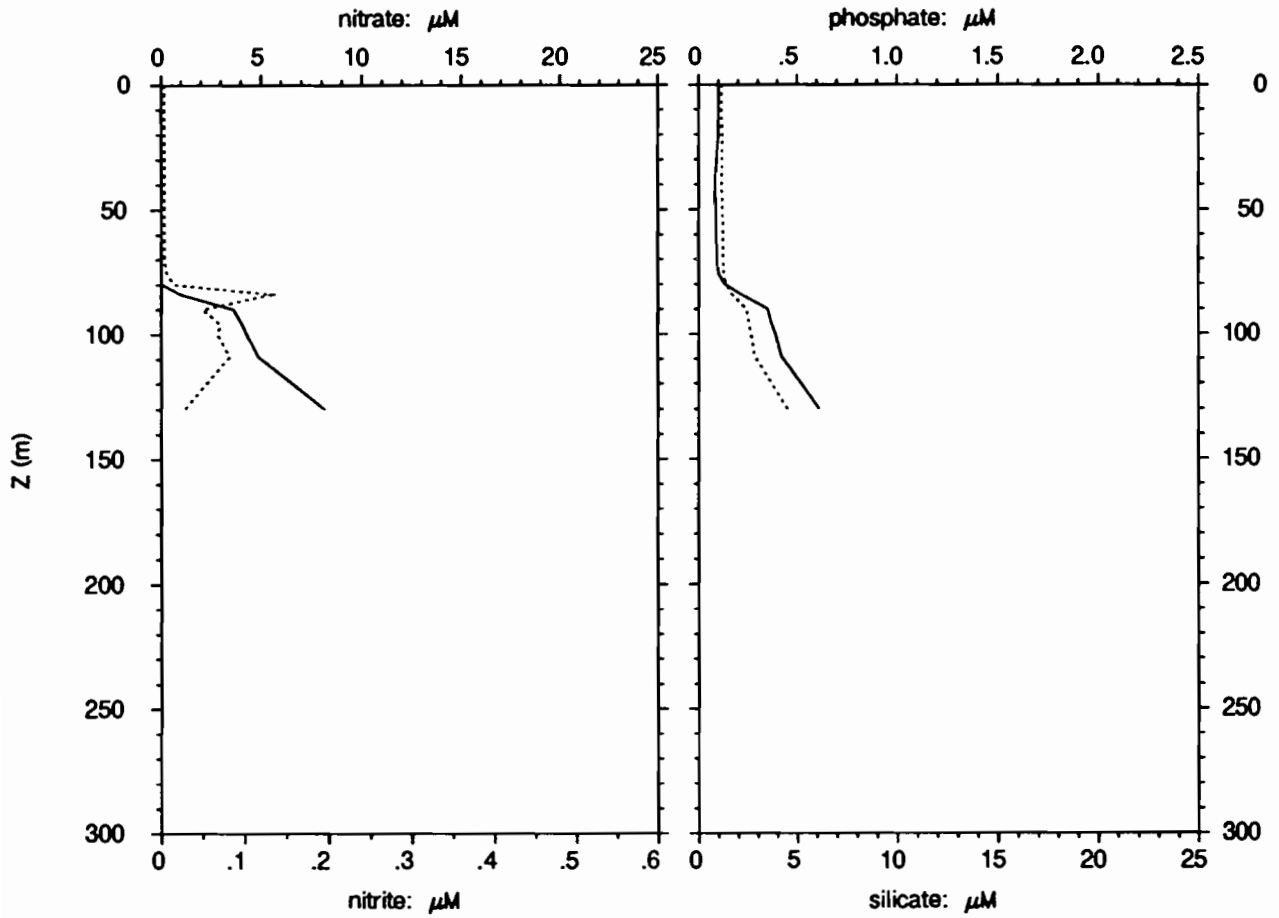
1°30 S 156°15 E

18/11/92, 8h 9 TU

18/11/92, 18h 9 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.004	0.10	1.1
20	0.001	0.004	0.10	1.2
40	0.001	0.004	0.08	1.2
60	0.002	0.004	0.09	1.2
70	0.003	0.004	0.09	1.2
76	0.010	0.007	0.10	1.3
80	0.057	0.016	0.13	1.4
84	0.998	0.133	0.21	1.7
90	3.62	0.050	0.35	2.4
96	4.05	0.071	0.37	2.5
100	4.28	0.068	0.39	2.7
109	4.87	0.082	0.42	2.8
130	8.14	0.028	0.61	4.5

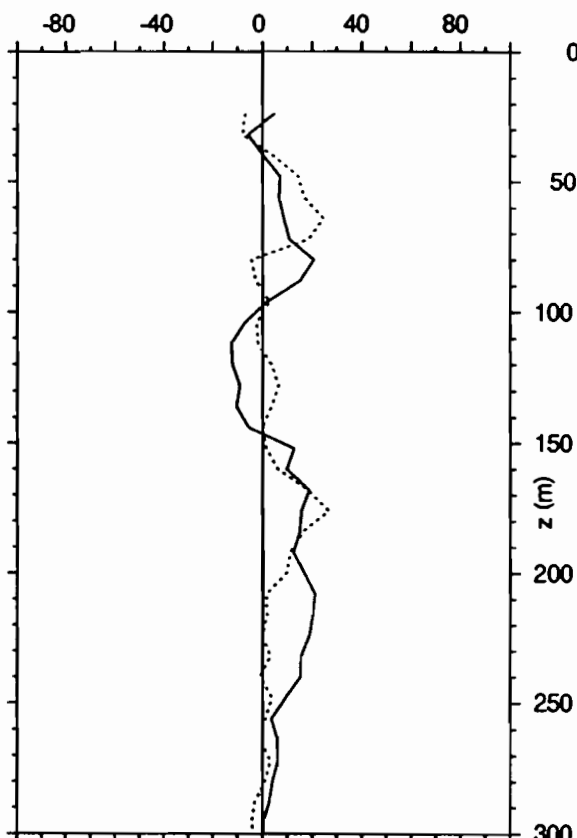
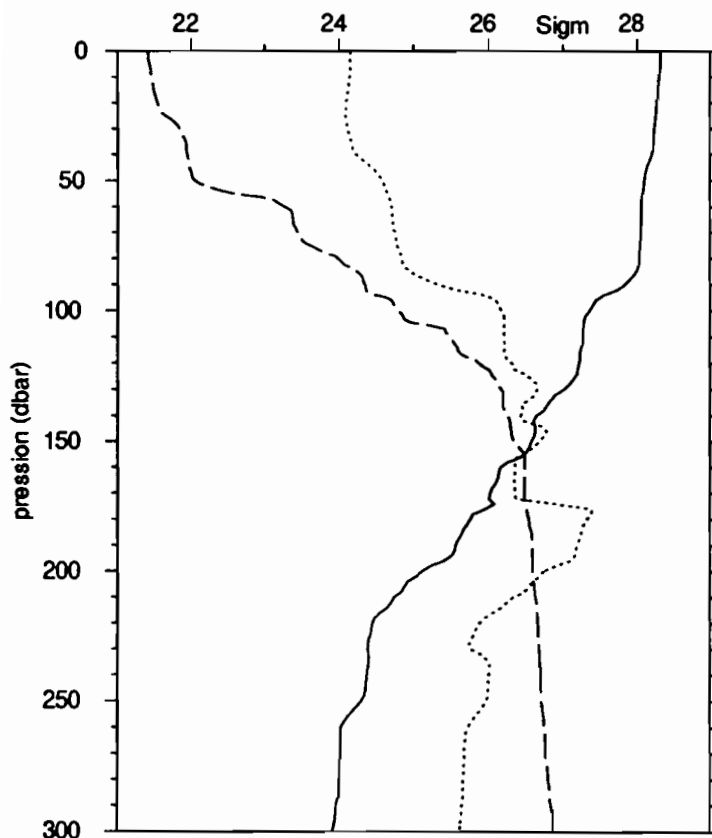
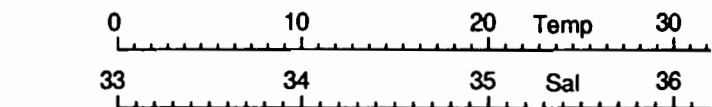
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.58	34.29	0.049	0.044	47.30
20	29.04	34.16	0.048	0.042	46.42
40	28.56	34.35	0.068	0.064	48.45
60	28.25	34.46	0.130	0.124	48.96
70	28.22	34.35	0.134	0.130	49.33
76	27.85	34.06	0.162	0.176	52.03
80	26.83	34.31	0.346	0.369	51.57
84	25.79	34.70	0.459	0.555	54.72
90	25.18	35.05	0.401	0.525	56.68
96	25.14	35.06	0.383	0.507	56.99
100	25.05	34.97	0.363	0.496	57.70
109	24.80	35.12	0.273	0.435	61.48
130	22.88	35.15	0.080	0.125	60.89

# EQUALIS -station 87

18/11/92, 10h 6 TU

1°30 S 156°15 E

18/11/92, 20h 6 locale

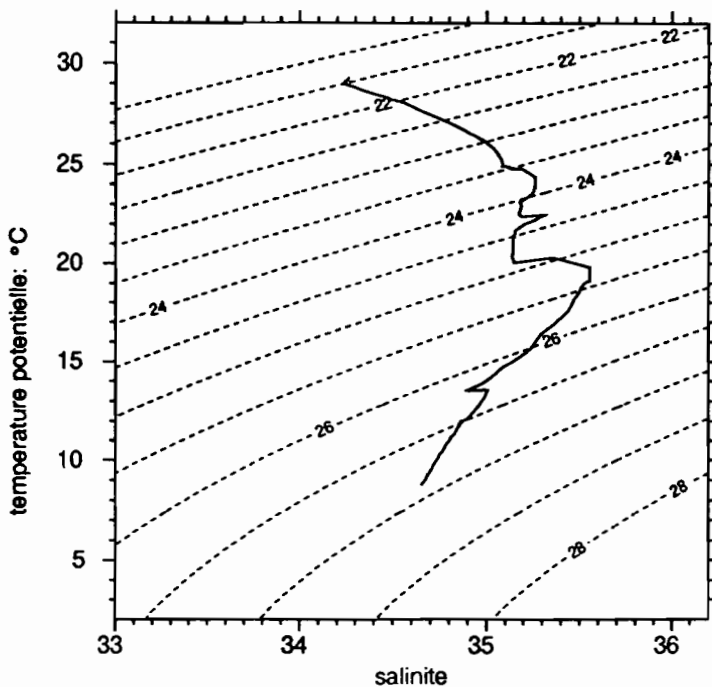


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.282	34.262
fin	504.0	8.797	34.654

	Z	U	V
debut	24.0	4.8	-6.9
fin	336.0	4.4	-4.8



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.206	34.258		
20.0	29.061	34.239		
30.0	28.952	34.246	-3.1	-7.7
40.0	28.820	34.294	0.4	4.2
50.0	28.401	34.433	7.0	15.0
75.0	28.178	34.512	14.5	10.0
100.0	25.439	35.068	-2.6	0.2
125.0	24.680	35.212	-10.2	5.4
150.0	22.307	35.272	8.2	1.1
200.0	16.443	35.295	16.9	9.7
250.0	13.210	34.989	7.9	3.2
300.0	11.654	34.845	7.9	-3.2
400.0	10.419	34.756		
500.0	8.908	34.659		

# EQUALIS - station 87

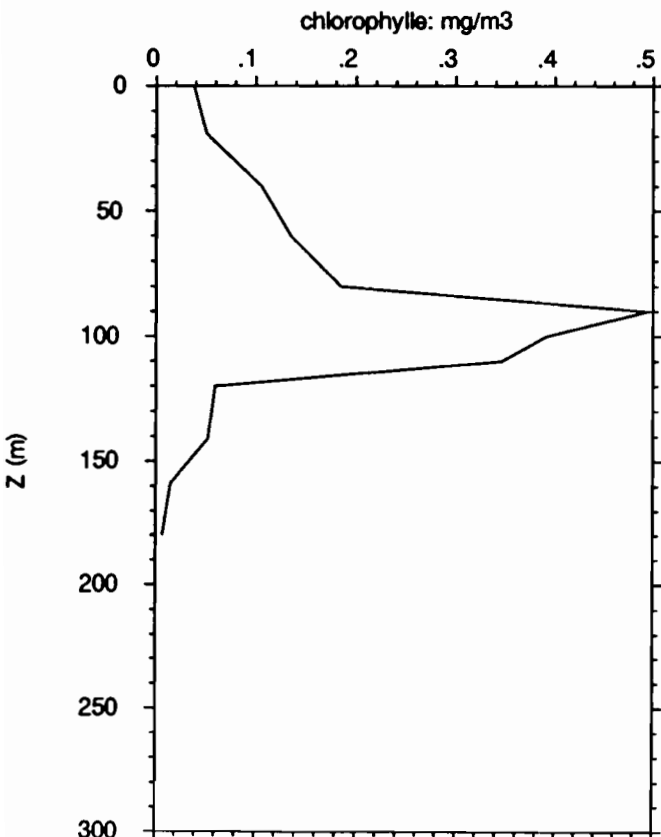
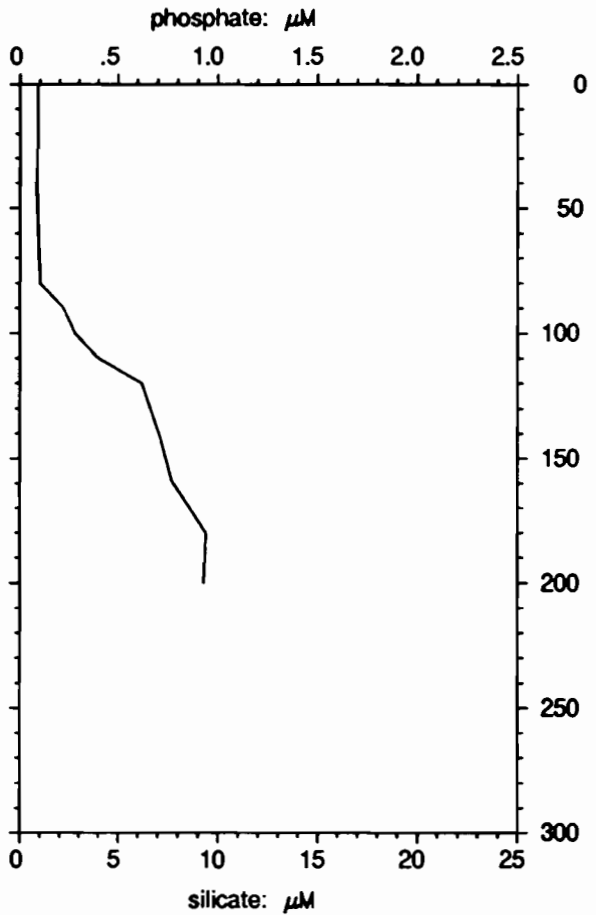
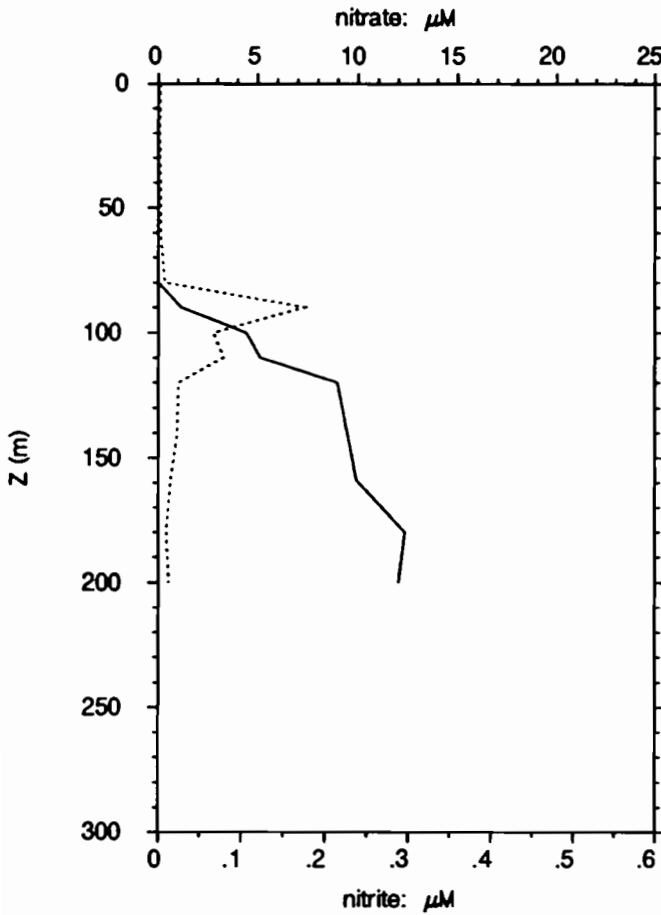
1°30 S 156°15 E

18/11/92, 10h 6 TU

18/11/92, 20h 6 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.003	0.09	
19	0.001	0.002	0.09	
40	0.000	0.003	0.08	
60	0.001	0.003	0.09	
80	0.018	0.008	0.10	
90	1.157	0.176	0.22	
100	4.43	0.067	0.28	
110	5.13	0.079	0.40	
120	8.97	0.025	0.62	
141	9.49	0.023	0.71	
159	9.92	0.015	0.77	
180	12.34	0.010	0.94	
200	12.01	0.013	0.93	

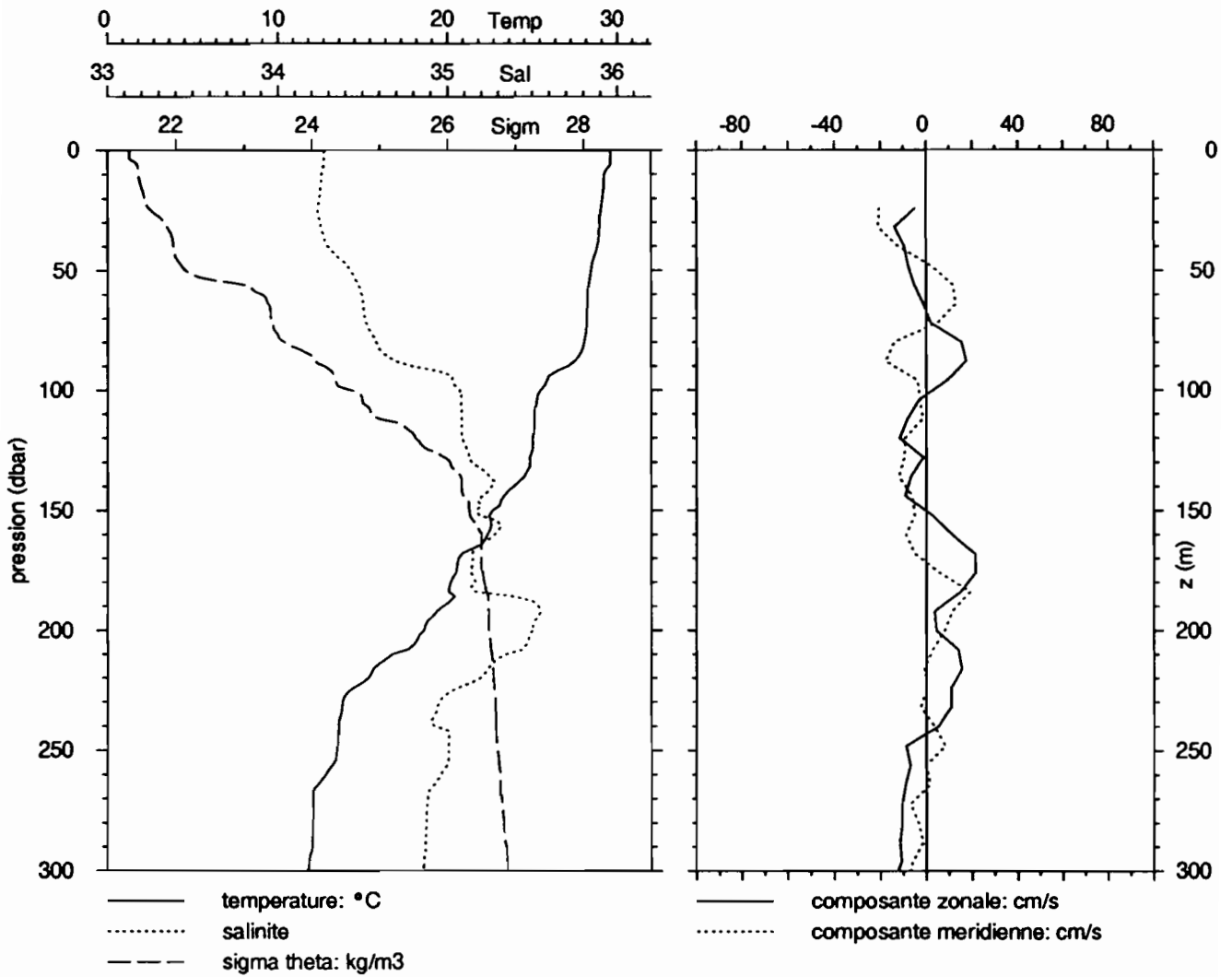
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.91	34.31	0.038	0.006	12.83
19	29.09	34.18	0.051	0.007	12.47
40	28.81	34.16	0.106	0.062	36.90
60	28.26	34.45	0.135	0.082	37.70
80	28.19	34.39	0.185	0.159	46.28
90	27.86	33.83	0.495	0.510	50.73
100	25.69	34.71	0.391	0.448	53.41
110	25.08	34.92	0.346	0.444	56.19
120	24.92	34.67	0.060	0.109	64.36
141	22.46	34.38	0.053	0.074	58.62
159	20.69	34.54	0.015	0.018	53.21
180	19.06	34.23	0.007	0.010	57.72
200	16.56	35.26			

# EQUALIS -station 88

18/11/92, 12h59 TU

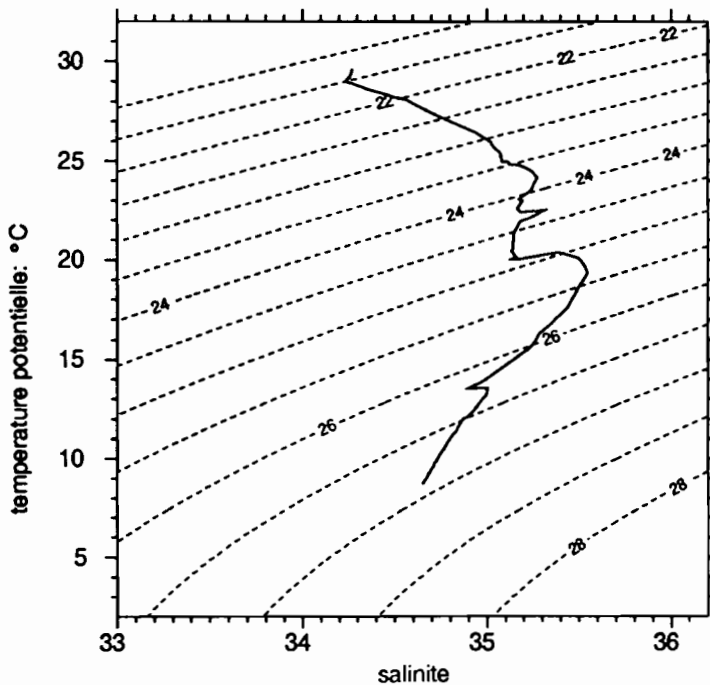
1°30 S 156°15 E

18/11/92, 22h59 locale



	P	T	S
debut	6.0	29.595	34.271
fin	502.0	8.766	34.653

	Z	U	V
debut	24.0	-4.6	-20.5
fin	328.0	-9.4	-8.8



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.214	34.257		
20.0	29.110	34.244		
30.0	28.940	34.246	-11.4	-20.9
40.0	28.812	34.293	-9.5	-12.3
50.0	28.425	34.425	-7.2	4.4
75.0	28.149	34.537	7.2	-2.0
100.0	25.461	35.068	3.1	-3.2
125.0	24.974	35.114	-5.1	-9.4
150.0	22.604	35.166	-0.2	-5.3
200.0	18.580	35.496	4.4	8.0
250.0	13.452	35.002	-8.2	8.0
300.0	11.763	34.853	-12.4	-6.9
400.0	10.364	34.752		
500.0	8.822	34.655		

# EQUALIS - station 88

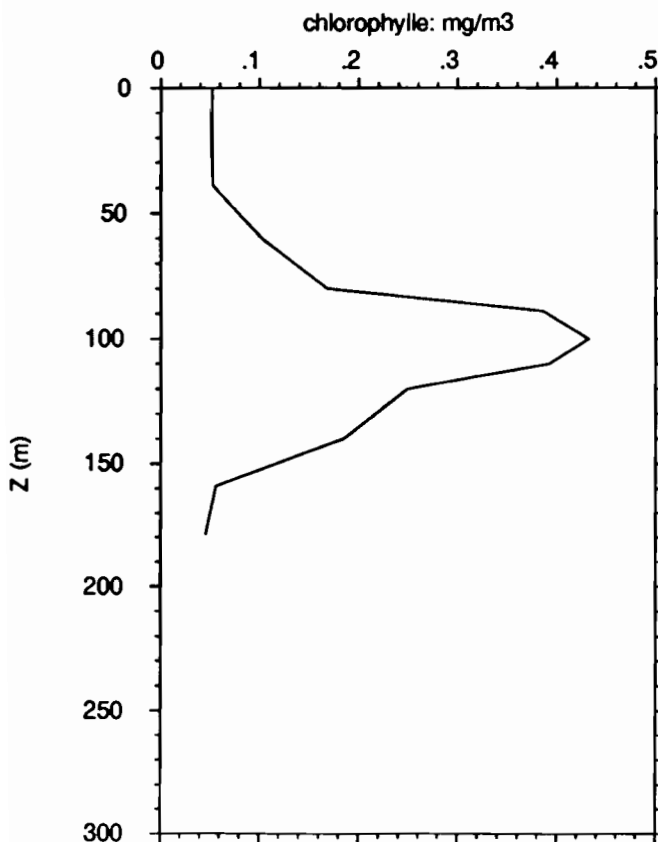
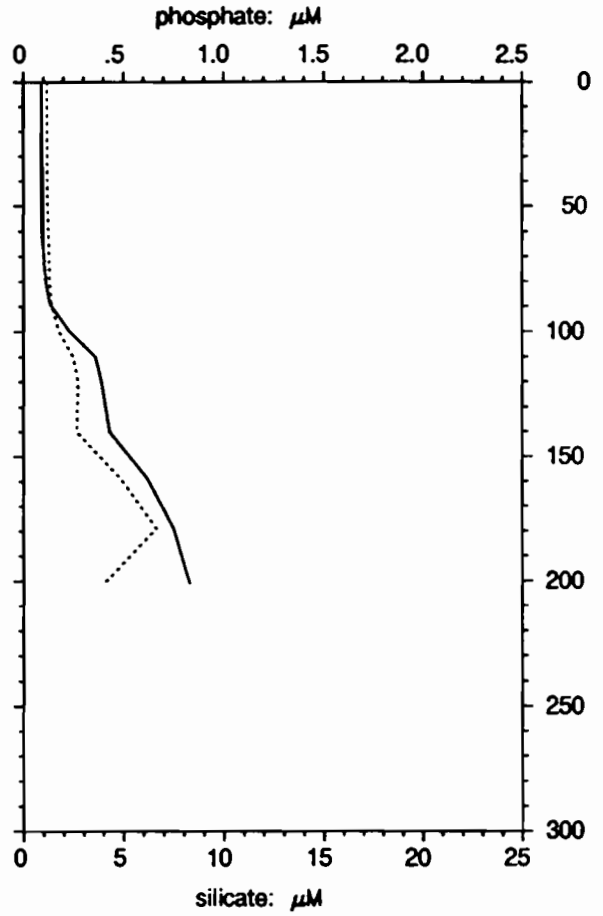
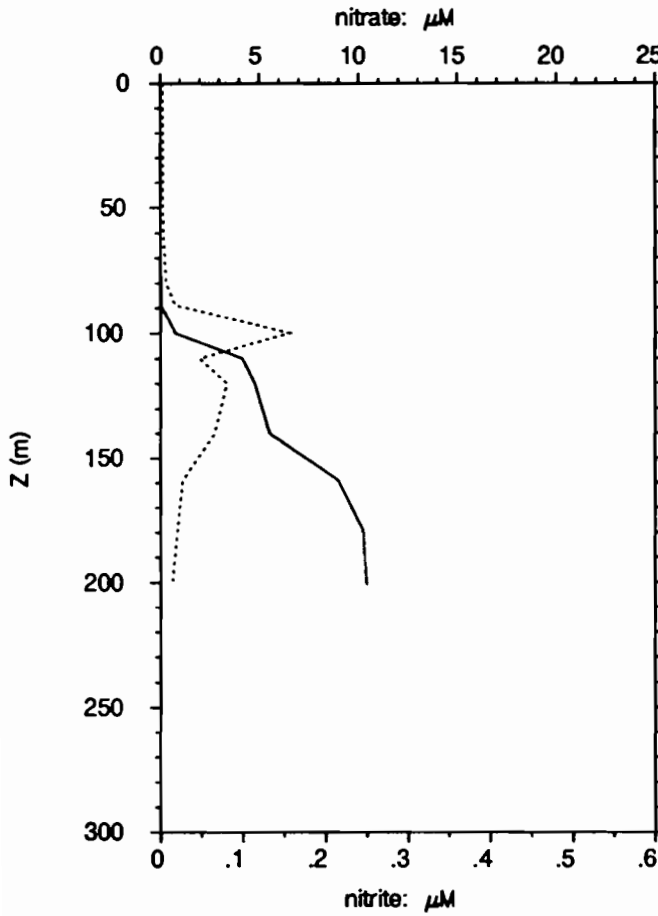
1°30 S 156°15 E

18/11/92, 12h59 TU

18/11/92, 22h59 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.003	0.003	0.09	1.2
20	0.002	0.003	0.09	1.2
39	0.001	0.003	0.09	1.2
60	0.000	0.004	0.09	1.2
80	0.011	0.007	0.11	1.3
89	0.036	0.018	0.13	1.4
100	0.782	0.157	0.23	1.8
110	4.15	0.048	0.36	2.5
120	4.78	0.081	0.39	2.7
140	5.52	0.066	0.43	2.7
159	8.97	0.027	0.62	4.9
179	10.22	0.021	0.75	6.7
201	10.40	0.014	0.83	4.0

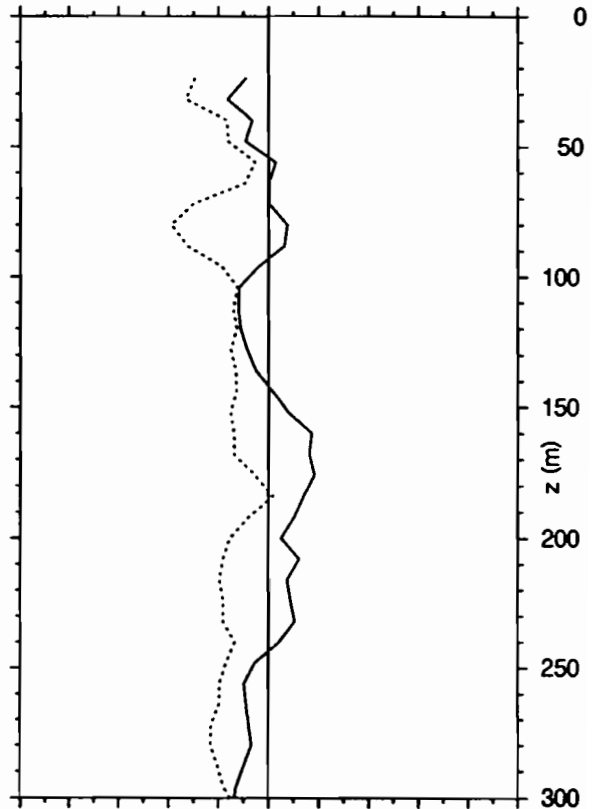
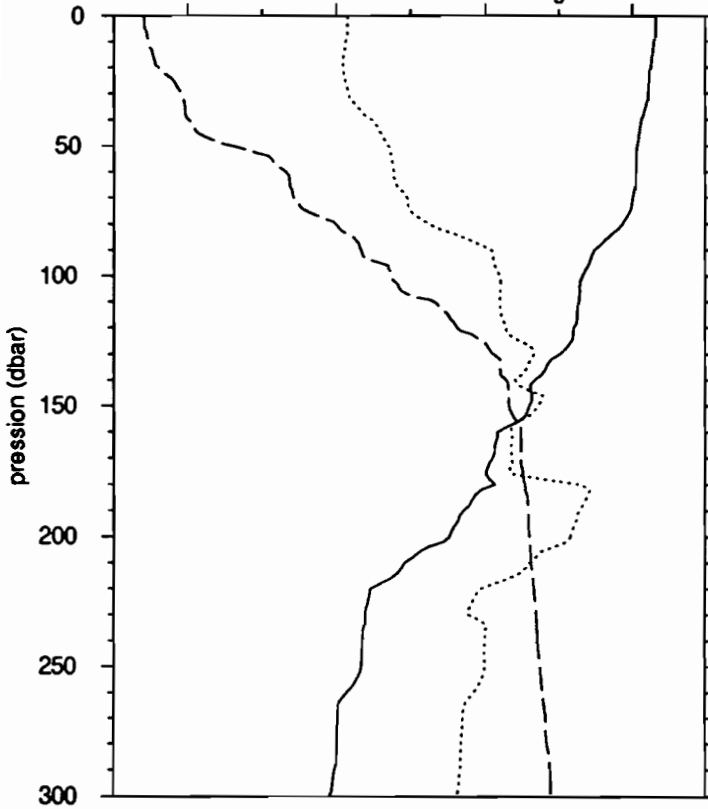
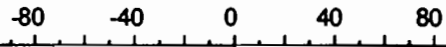
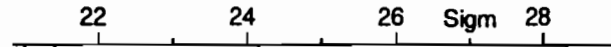
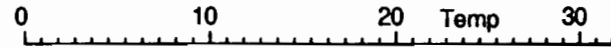
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.74	34.31	0.052	0.010	15.83
20	29.08	34.20	0.051	0.035	40.30
39	28.77	34.26	0.053	0.042	43.90
60	28.21	34.49	0.102	0.088	46.21
80	0.00	34.12	0.168	0.153	47.64
89	0.00	34.62	0.386	0.357	48.09
100	0.00	34.91	0.432	0.514	54.37
110	0.00	35.02	0.392	0.526	57.30
120	0.00	34.92	0.249	0.336	57.38
140	0.00	34.75	0.185	0.265	58.93
159	0.00	34.74	0.056	0.114	66.84
179	0.00	34.54	0.046	0.085	64.75
201	0.00	35.45			

# EQUALIS -station 89

18/11/92, 16h 1 TU

1°30 S 156°15 E

19/11/92, 2h 1 locale

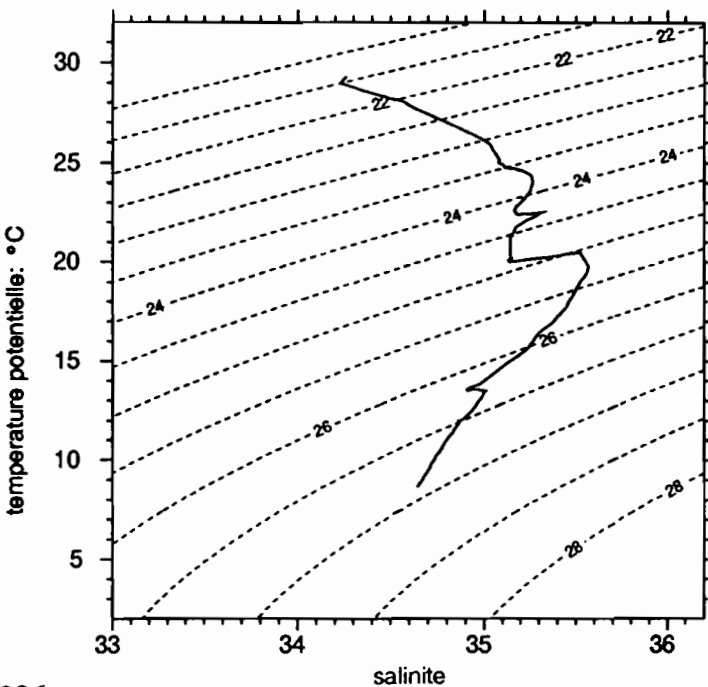


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.297	34.261
fin	498.0	8.705	34.645

	Z	U	V
debut	24.0	-9.0	-29.5
fin	376.0	-21.4	-19.2



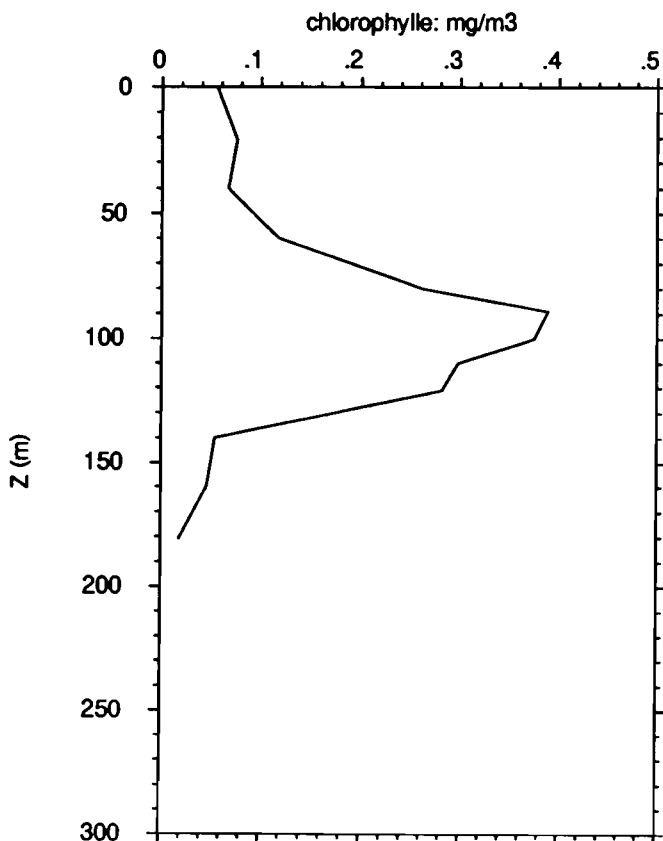
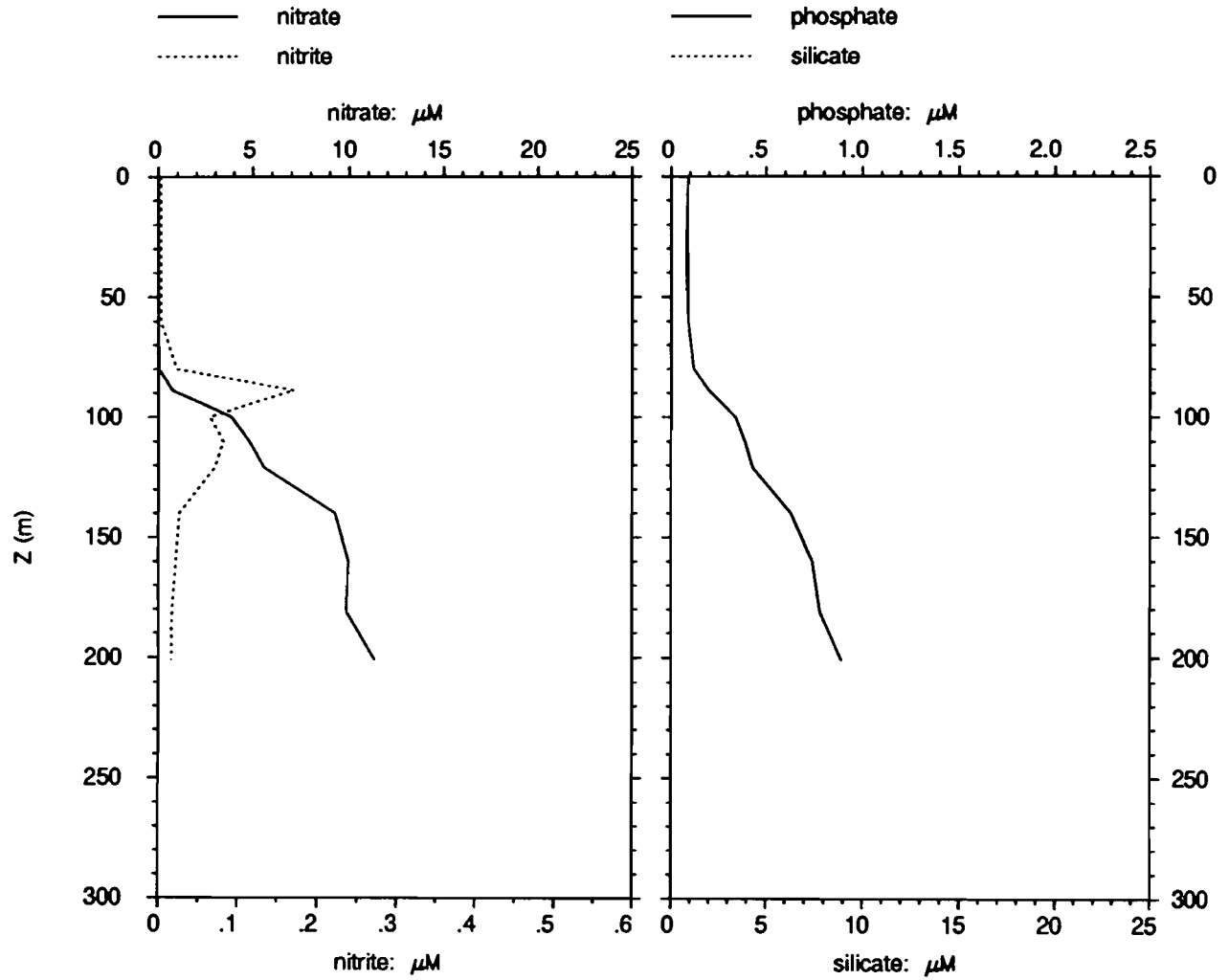
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.193	34.251		
20.0	29.028	34.234		
30.0	28.876	34.267	-14.5	-32.1
40.0	28.504	34.391	-6.5	-16.7
50.0	28.272	34.481	-6.2	-13.5
75.0	27.883	34.599	3.2	-33.4
100.0	25.278	35.077	-7.8	-15.4
125.0	24.681	35.190	-9.4	-14.1
150.0	22.396	35.286	6.4	-14.4
200.0	18.080	35.464	5.1	-15.3
250.0	13.363	34.998	-6.5	-17.6
300.0	11.653	34.846	-13.6	-15.6
400.0	10.286	34.747		

# EQUALIS - station 89

1° 30 S 156° 15 E

18/11/92, 16h 1 TU

19/11/92, 2h 1 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.003	0.09	
21	0.002	0.003	0.08	
40	0.000	0.003	0.08	
60	0.001	0.003	0.09	
80	0.034	0.023	0.12	
89	0.745	0.171	0.20	
100	3.84	0.065	0.34	
110	4.81	0.082	0.39	
121	5.59	0.071	0.43	
140	9.27	0.026	0.63	
160	9.95	0.022	0.74	
181	9.85	0.017	0.78	
201	11.32	0.016	0.89	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.43	34.29	0.055	0.030	35.16
21	29.02	34.12	0.076	0.055	42.02
40	28.45	34.33	0.067	0.049	41.99
60	28.19	34.25	0.118	0.099	45.75
80	26.99	34.23	0.262	0.264	50.15
89	25.75	34.68	0.389	0.525	57.44
100	25.16	34.98	0.375	0.439	53.94
110	25.00	34.90	0.298	0.429	59.00
121	24.77	34.33	0.282	0.409	59.16
140	22.44	34.76	0.054	0.126	70.06
160	20.62	34.79	0.046	0.099	68.02
181	19.42	34.47	0.018	0.036	66.67
201	17.77	35.40			

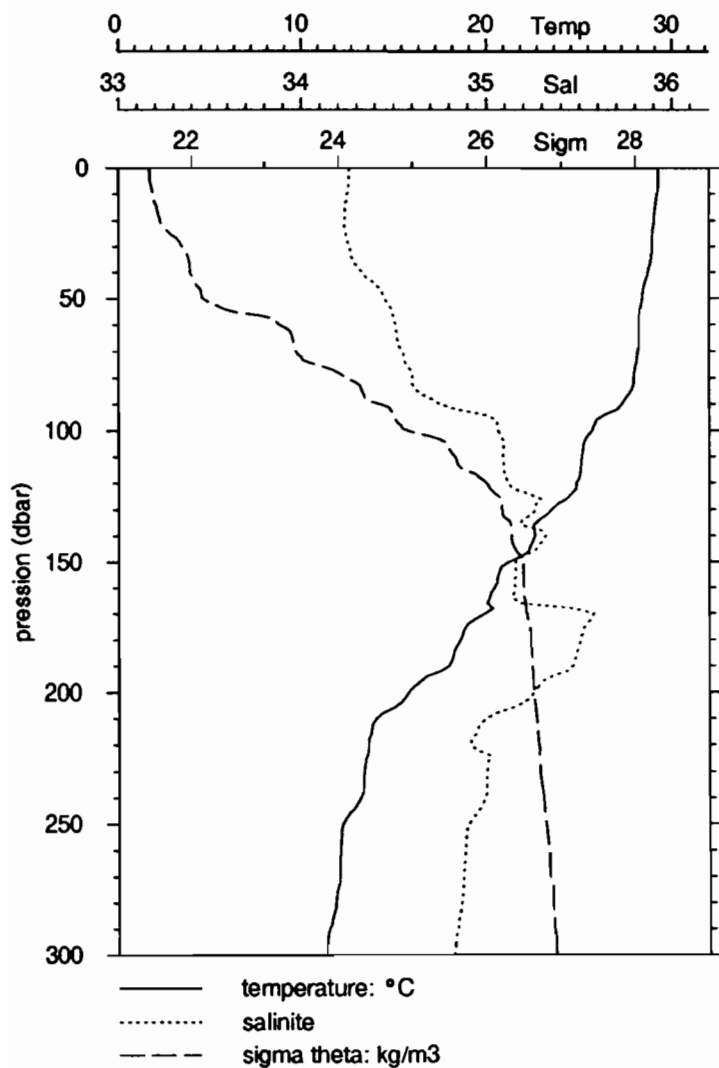


# EQUALIS -station 90

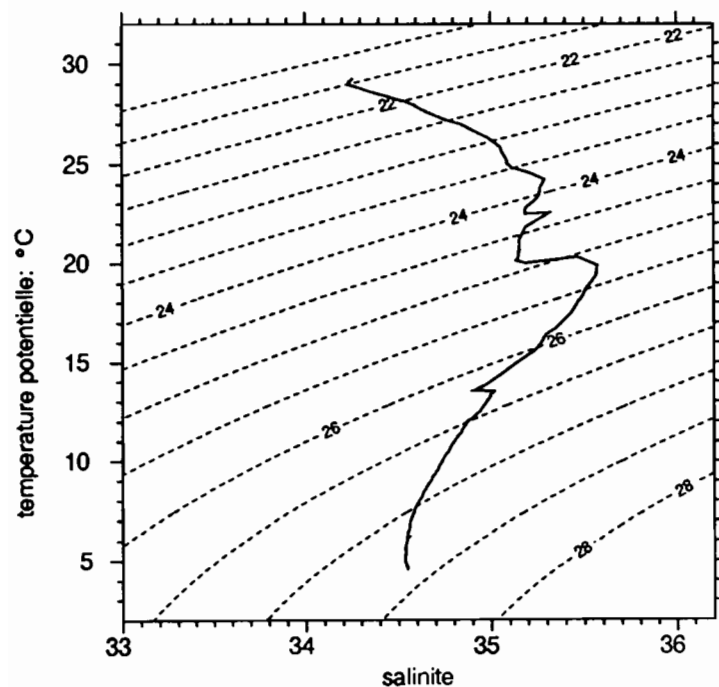
18/11/92, 19h 5 TU

1°30 S 156°15 E

19/11/92, 5h 5 locale



	P	T	S
debut	4.0	29.257	34.257
fin	998.0	4.616	34.545



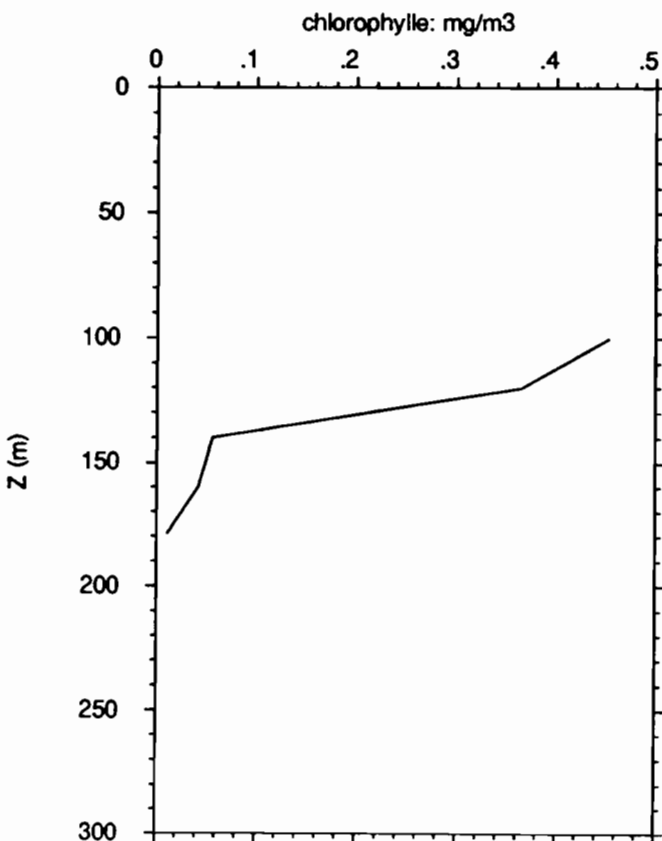
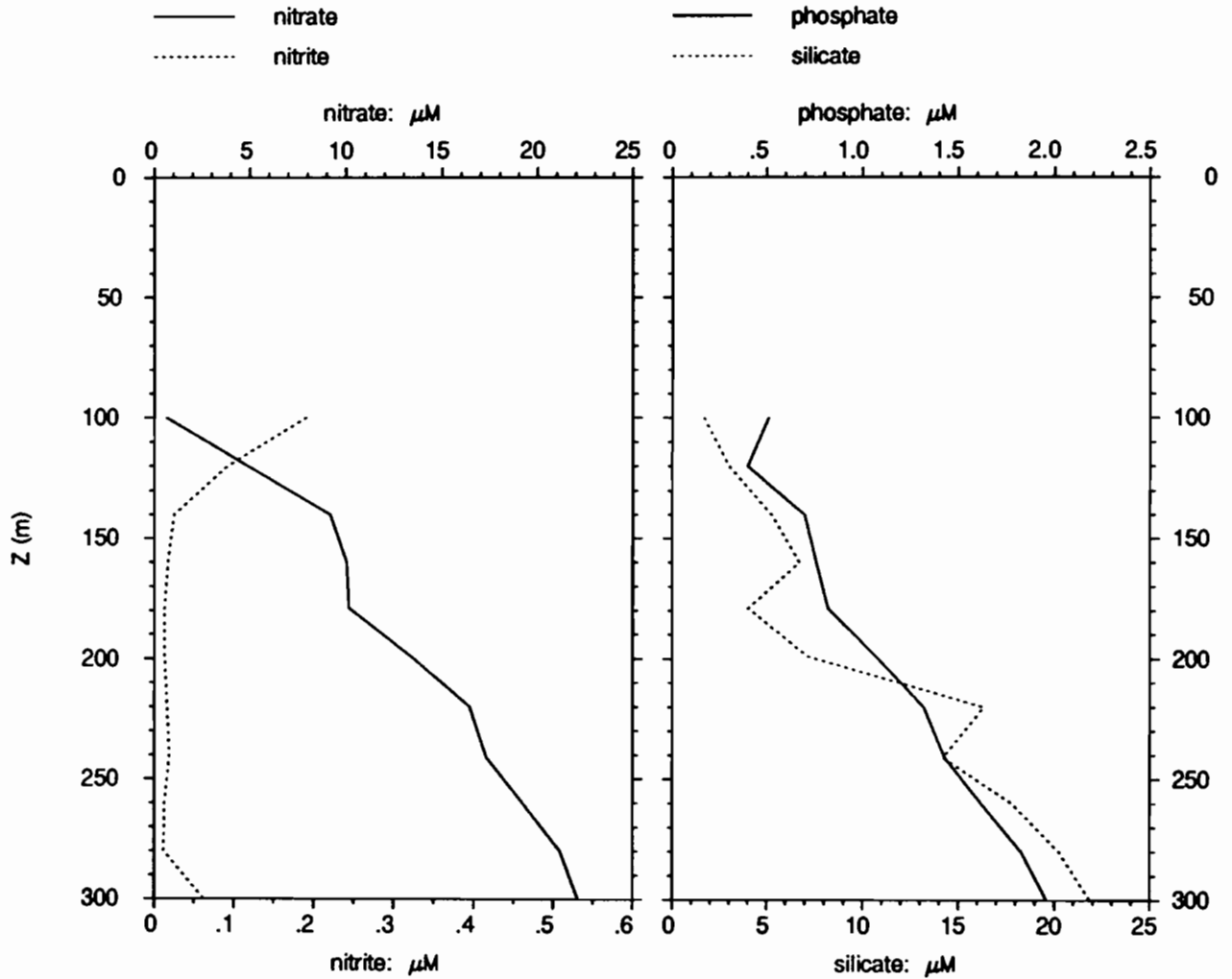
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.185	34.248		
20.0	29.033	34.233		
30.0	28.895	34.257		
40.0	28.690	34.327		
50.0	28.370	34.448		
75.0	28.021	34.570		
100.0	25.633	35.061		
125.0	24.416	35.255		
150.0	21.193	35.153		
200.0	15.785	35.252		
250.0	12.201	34.903		
300.0	11.295	34.822		
400.0	9.983	34.733		
500.0	8.510	34.637		
600.0	6.857	34.559		
700.0	6.215	34.548		
800.0	5.741	34.539		
900.0	5.048	34.533		

# EQUALIS - station 90

1°30 S 156°15 E

18/11/92, 19h 5 TU

19/11/92, 5h 5 locale



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
100	0.635	0.191	0.51	1.7
120	4.89	0.092	0.40	3.0
140	9.19	0.025	0.70	5.3
160	10.04	0.017	0.76	6.7
179	10.16	0.013	0.82	4.0
199	13.39	0.013	1.07	7.2
220	16.45	0.016	1.32	16.3
241	17.32	0.019	1.43	14.2
260	19.22	0.013	1.62	17.8
280	21.20	0.012	1.83	20.2
300	22.12	0.062	1.96	21.8
1001	28.01	0.058	2.82	62.1

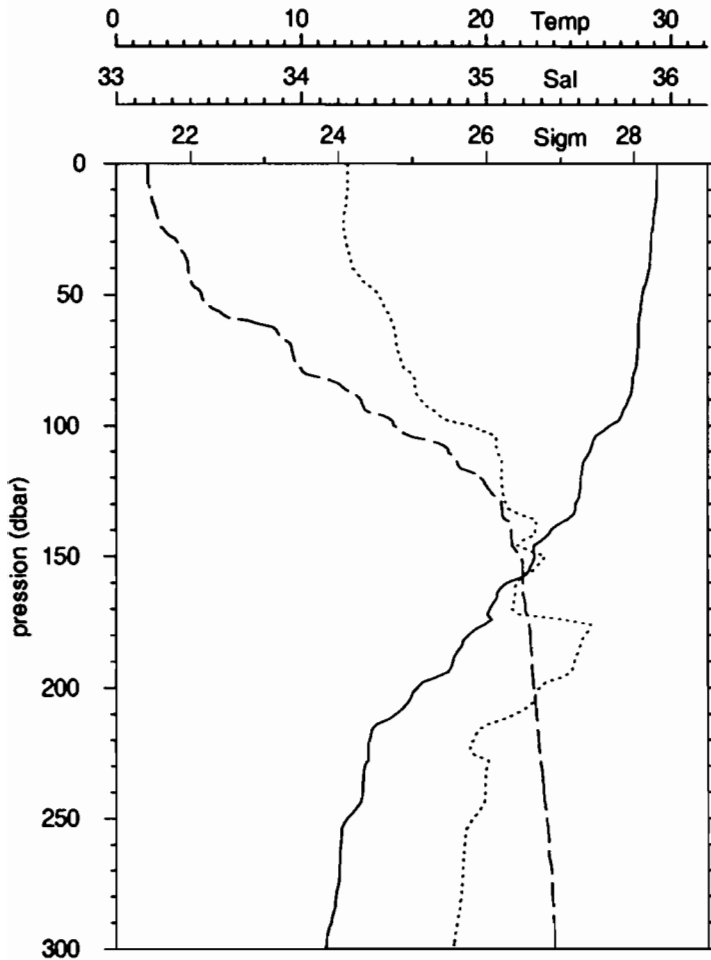
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
100	25.70	34.80	0.453	0.565	55.49
120	24.91	33.85	0.365	0.461	55.80
140	22.47	34.36	0.056	0.121	68.38
160	20.36	35.12	0.042	0.093	69.17
179	18.57	34.90	0.011	0.036	76.15
199	15.77	35.20			
220	13.58	34.79			
241	12.93	34.94			
260	12.05	34.86			
280	11.62	34.83			
300	11.26	34.81			
1001	4.61	34.54			

# EQUALIS -station 91

18/11/92, 20h14 TU

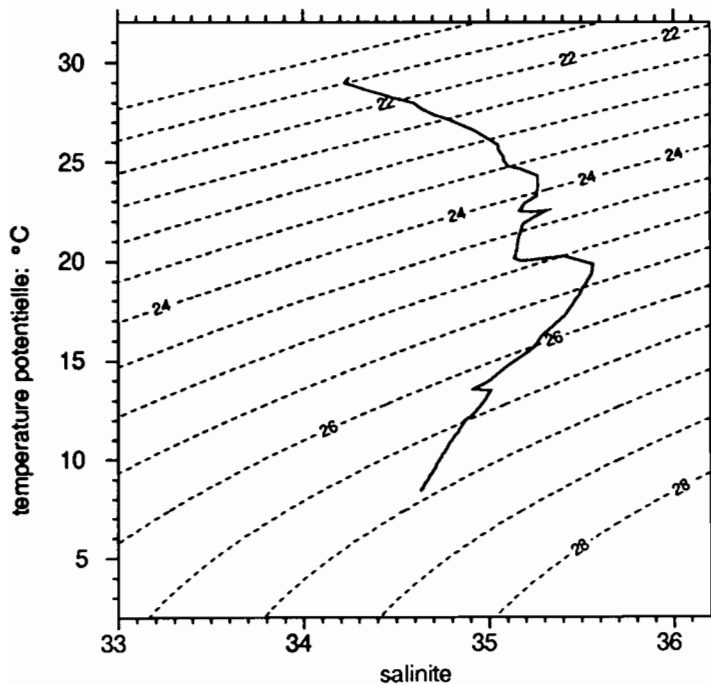
1°30 S 156°15 E

19/11/92, 6h14 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.234	34.250
fin	500.0	8.463	34.630



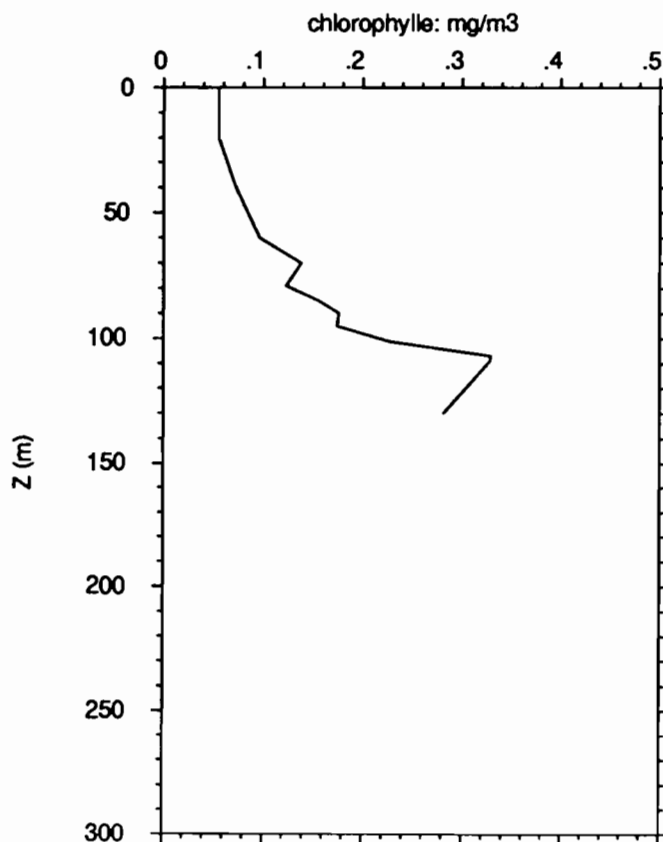
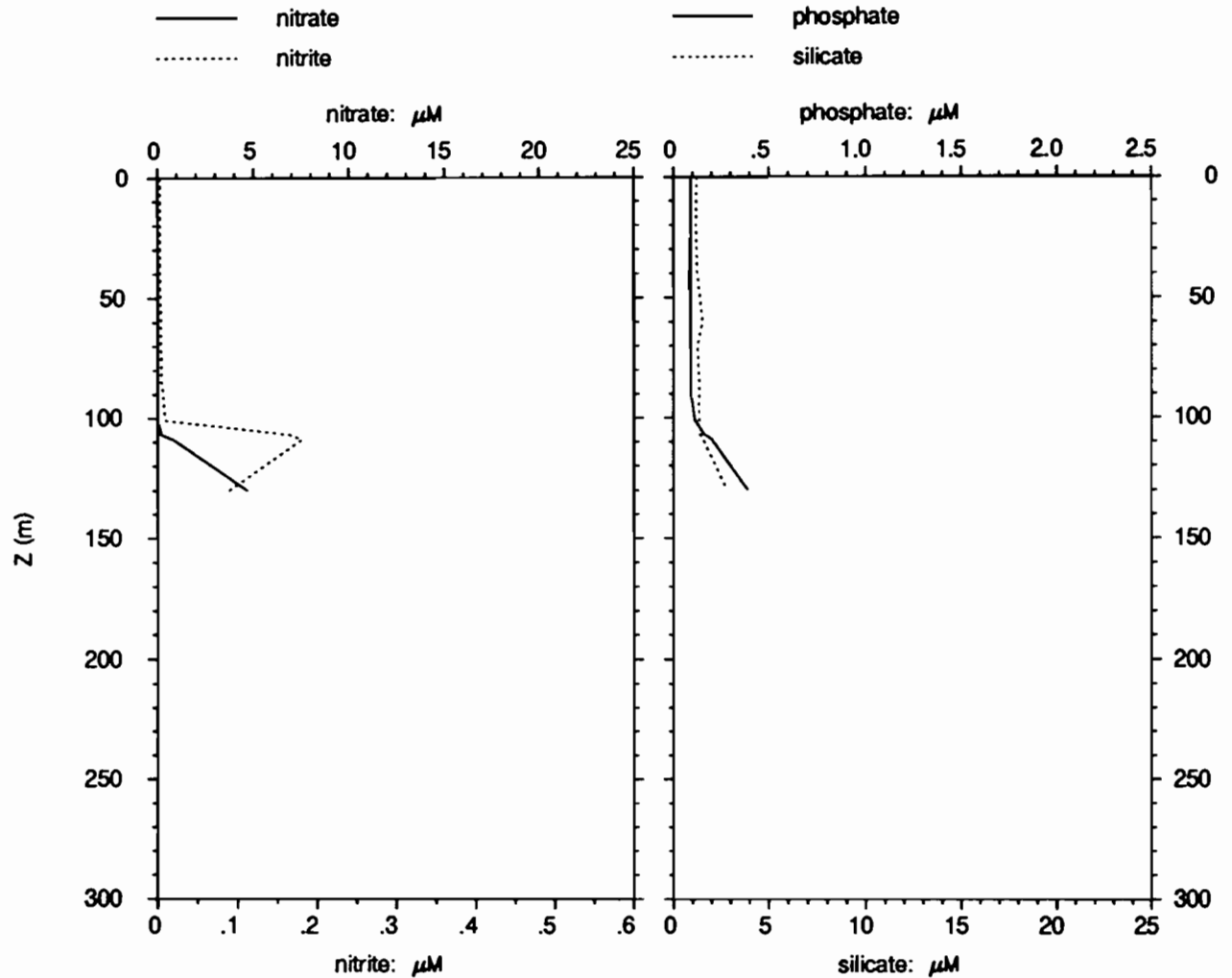
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.232	34.250		
20.0	29.061	34.229		
30.0	28.917	34.241		
40.0	28.823	34.279		
50.0	28.441	34.416		
75.0	28.138	34.536		
100.0	26.626	34.922		
125.0	25.029	35.086		
150.0	22.580	35.315		
200.0	16.277	35.285		
250.0	12.458	34.926		
300.0	11.310	34.819		
400.0	9.822	34.717		
500.0	8.463	34.630		

# EQUALIS - station 91

1°30 S 156°15 E

18/11/92, 20h14 TU

19/11/92, 6h14 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.003	0.09	1.2
20	0.000	0.003	0.09	1.2
39	0.004	0.003	0.08	1.2
60	0.003	0.004	0.09	1.5
70	0.003	0.004	0.09	1.3
79	0.003	0.005	0.09	1.3
85	0.004	0.005	0.09	1.3
90	0.005	0.007	0.09	1.3
95	0.004	0.008	0.10	1.3
101	0.002	0.010	0.11	1.3
107	0.213	0.165	0.16	1.4
109	0.813	0.181	0.20	1.5
130	4.66	0.089	0.39	2.8

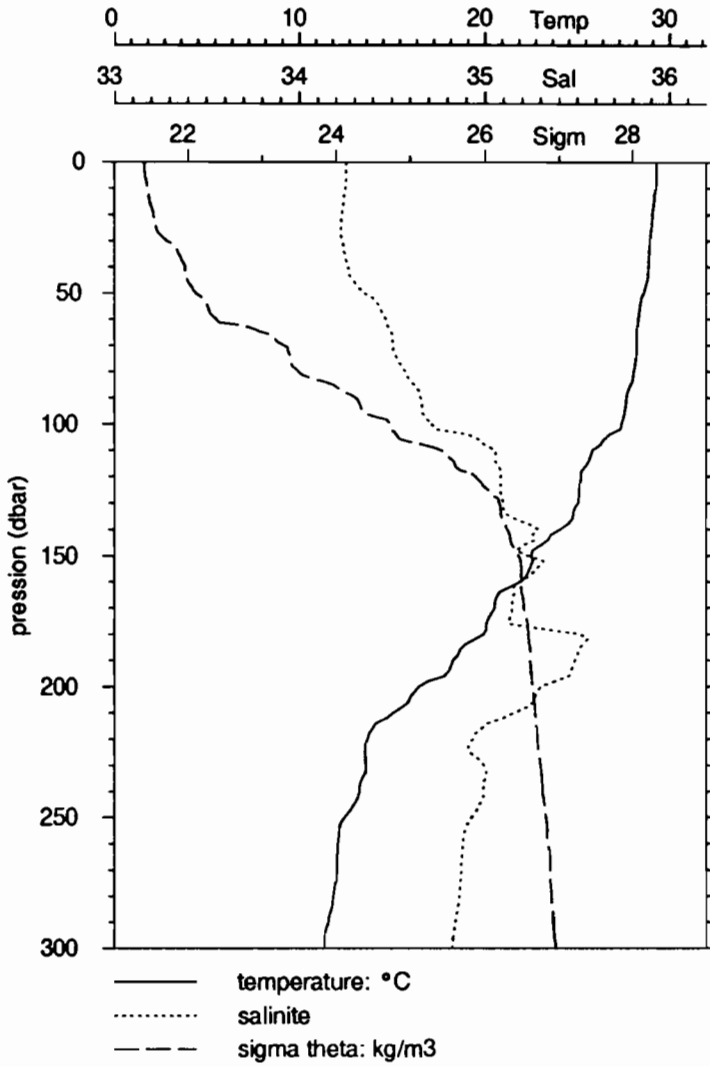
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.33	34.28	0.055	0.057	50.58
20	28.99	34.15	0.055	0.042	43.17
39	28.85	34.16	0.071	0.061	46.16
60	28.33	34.45	0.096	0.089	48.09
70	28.16	34.44	0.138	0.142	50.77
79	28.03	34.48	0.123	0.162	56.76
85	27.82	34.49	0.156	0.177	53.29
90	27.71	34.54	0.176	0.206	53.93
95	27.47	34.40	0.174	0.232	57.12
101	26.82	34.47	0.226	0.250	52.47
107	25.83	35.04	0.329	0.380	53.60
109	25.69	34.19	0.328	0.425	56.41
130	24.99	35.08	0.281	0.390	58.13

# EQUALIS -station 92

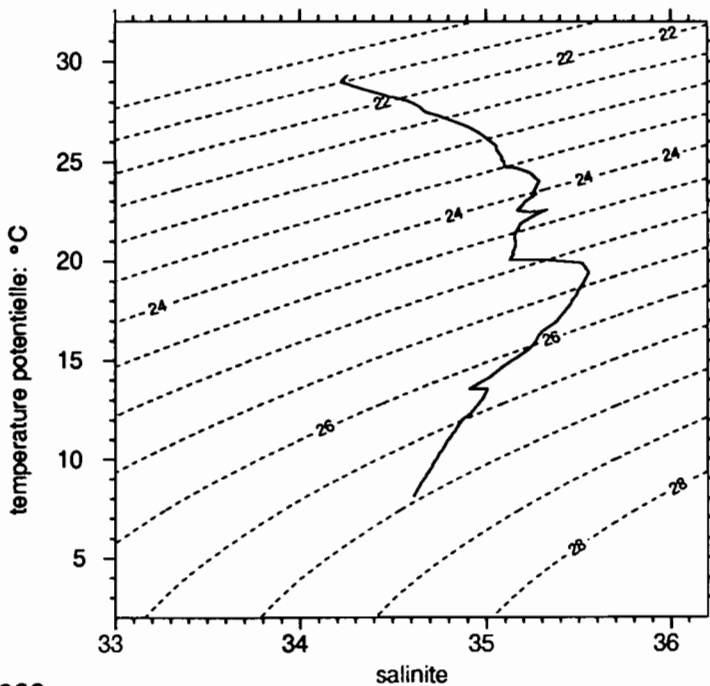
18/11/92, 22h 5 TU

1°30 S 156°15 E

19/11/92, 8h 5 locale



	P	T	S
debut	4.0	29.292	34.254
fin	502.0	8.144	34.614



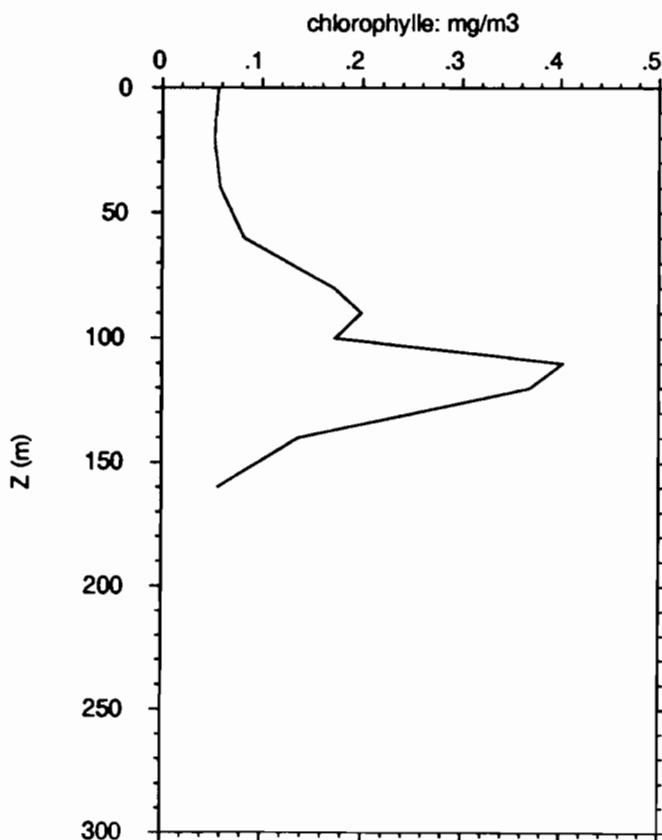
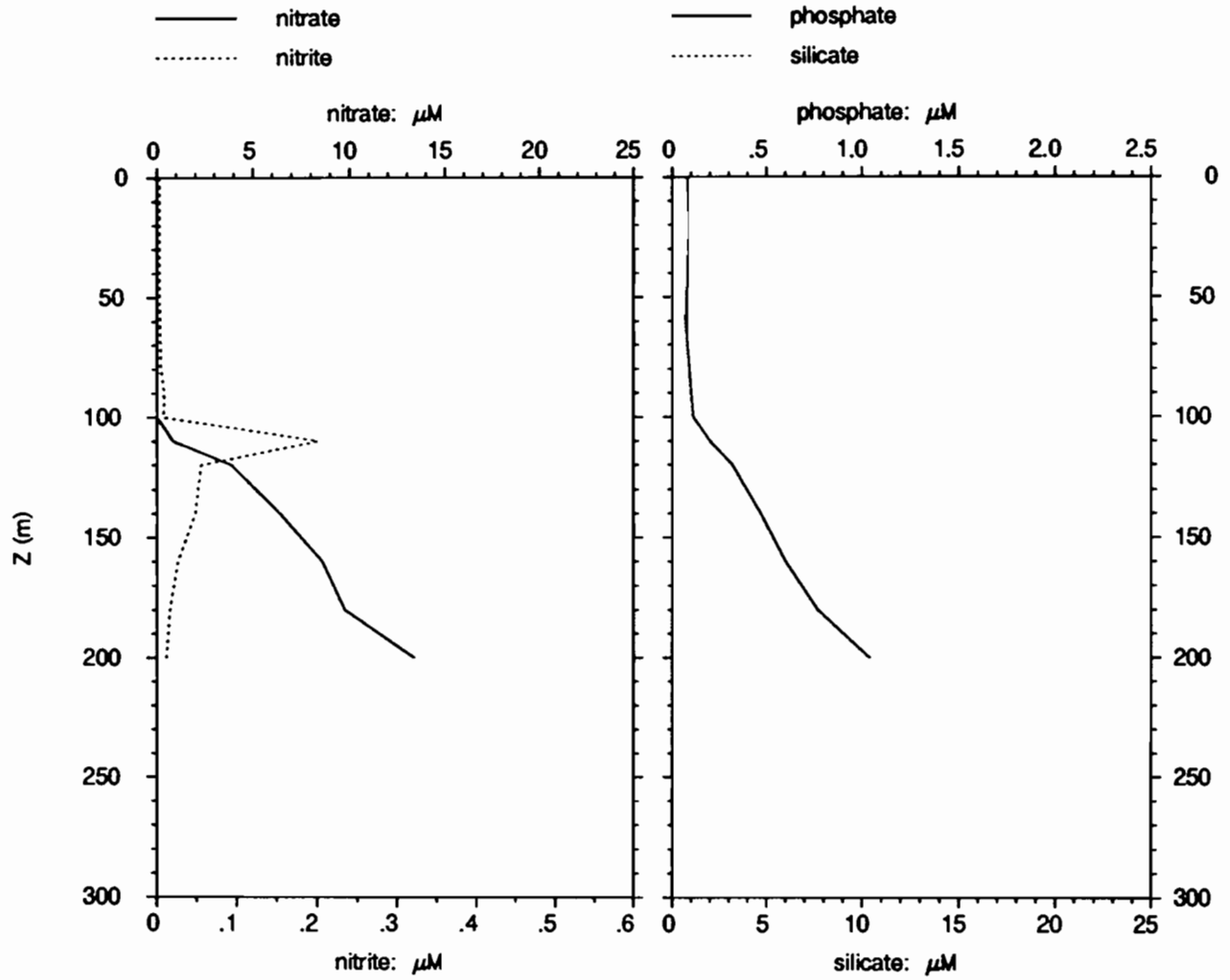
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.255	34.251		
20.0	29.075	34.230		
30.0	28.934	34.236		
40.0	28.869	34.264		
50.0	28.606	34.349		
75.0	28.184	34.529		
100.0	27.406	34.715		
125.0	25.110	35.085		
150.0	22.495	35.232		
200.0	16.480	35.299		
250.0	12.470	34.929		
300.0	11.335	34.822		
400.0	9.795	34.715		
500.0	8.200	34.617		

# EQUALIS - station 92

1°30 S 156°15 E

18/11/92, 22h 5 TU

19/11/92, 8h 5 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.003	0.08	
20	0.000	0.003	0.09	
40	0.002	0.003	0.08	
60	0.001	0.004	0.07	
80	0.000	0.005	0.09	
90	0.011	0.009	0.10	
100	0.003	0.008	0.11	
110	0.850	0.201	0.20	
120	3.89	0.055	0.32	
140	6.42	0.048	0.47	
160	8.60	0.026	0.60	
180	9.76	0.016	0.77	
200	13.39	0.012	1.04	

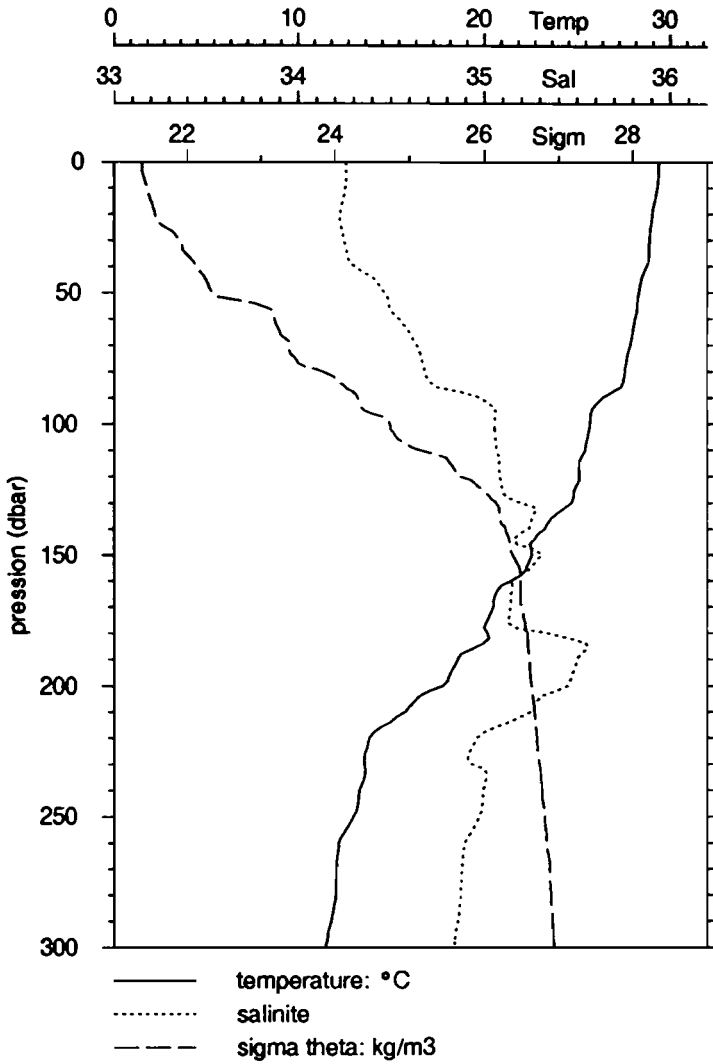
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.43	34.28	0.056	0.039	41.33
20	29.03	34.19	0.052	0.065	55.77
40	28.68	34.18	0.058	0.049	45.54
60	28.25	34.44	0.082	0.077	48.43
80	27.78	34.40	0.172	0.157	47.75
90	27.55	34.40	0.199	0.213	51.78
100	26.60	34.31	0.173	0.231	57.17
110	25.66	34.63	0.402	0.418	51.00
120	25.19	34.44	0.369	0.384	51.03
140	23.83	34.27	0.137	0.229	62.58
160	22.19	35.20	0.056	0.120	67.97
180	19.37	34.22			
200	16.24	35.24			

# EQUALIS -station 93

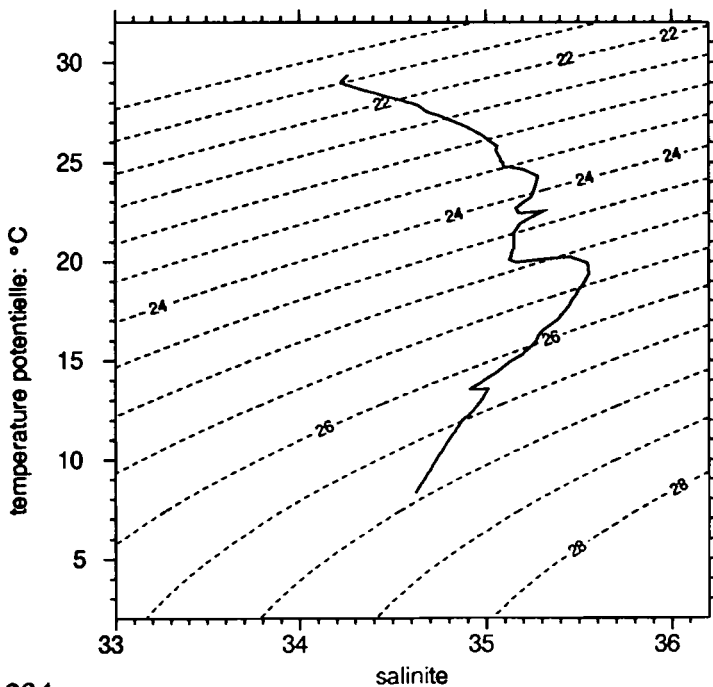
1°30 S 156°15 E

19/11/92, 1h 0 TU

19/11/92, 11h 0 locale



	P	T	S
debut	6.0	29.386	34.260
fin	500.0	8.343	34.625



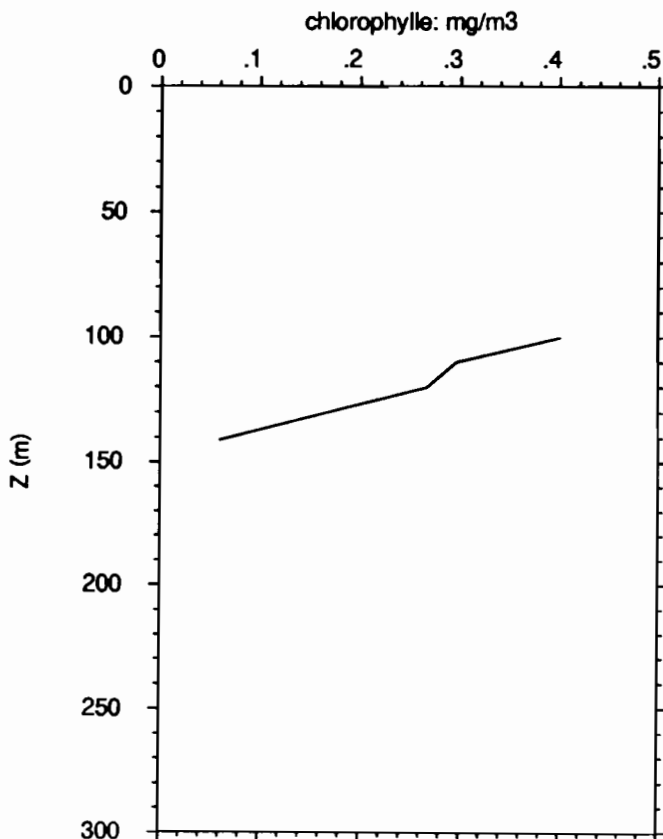
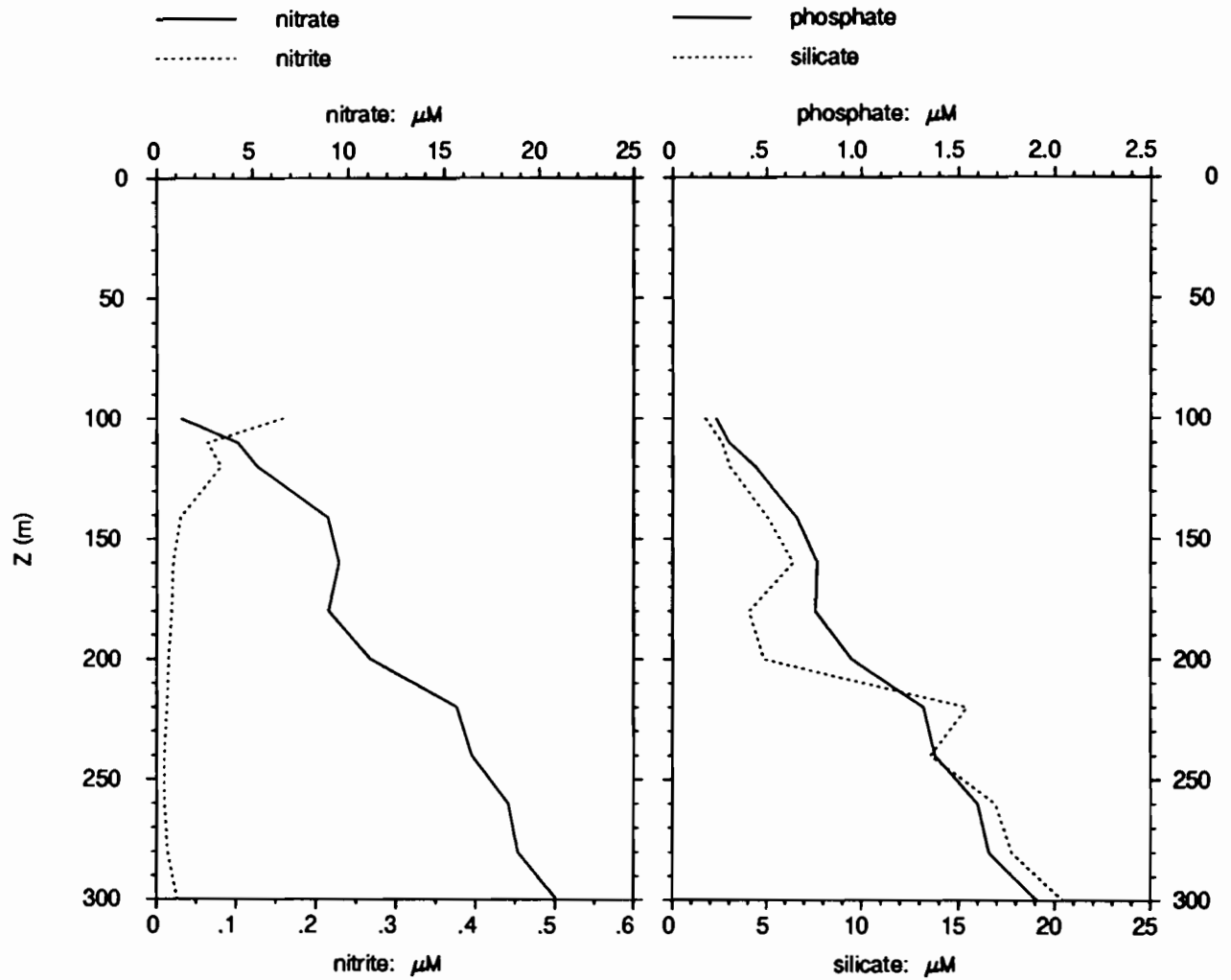
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.310	34.255		
20.0	29.052	34.227		
30.0	28.896	34.246		
40.0	28.742	34.306		
50.0	28.328	34.466		
75.0	27.689	34.664		
100.0	25.694	35.054		
125.0	24.857	35.096		
150.0	22.563	35.309		
200.0	17.787	35.449		
250.0	12.984	34.971		
300.0	11.435	34.834		
400.0	9.826	34.720		
500.0	8.343	34.625		

# EQUALIS - station 93

1°30 S 156°15 E

19/11/92, 1h 0 TU

19/11/92, 11h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
100	1.293	0.159	0.23	1.7
110	4.25	0.064	0.30	2.6
120	5.26	0.081	0.44	3.0
141	8.95	0.030	0.66	5.1
160	9.51	0.021	0.77	6.4
180	8.98	0.019	0.76	4.1
200	11.15	0.015	0.95	4.9
220	15.67	0.013	1.32	15.4
240	16.47	0.010	1.38	13.6
260	18.39	0.010	1.60	16.9
280	18.89	0.014	1.66	17.8
300	20.92	0.026	1.91	20.4

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
100	25.62	34.92	0.401	0.489	54.94
110	25.12	34.86	0.296	0.415	58.33
120	24.79	34.76	0.267	0.421	61.16
141	22.51	34.28	0.060	0.126	67.56
160	20.64	35.01			
180	20.02	34.64			
200	17.01	34.82			
220	13.76	34.77			
240	13.27	34.54			
260	12.20	34.79			
280	12.04	34.86			
300	11.48	34.82			

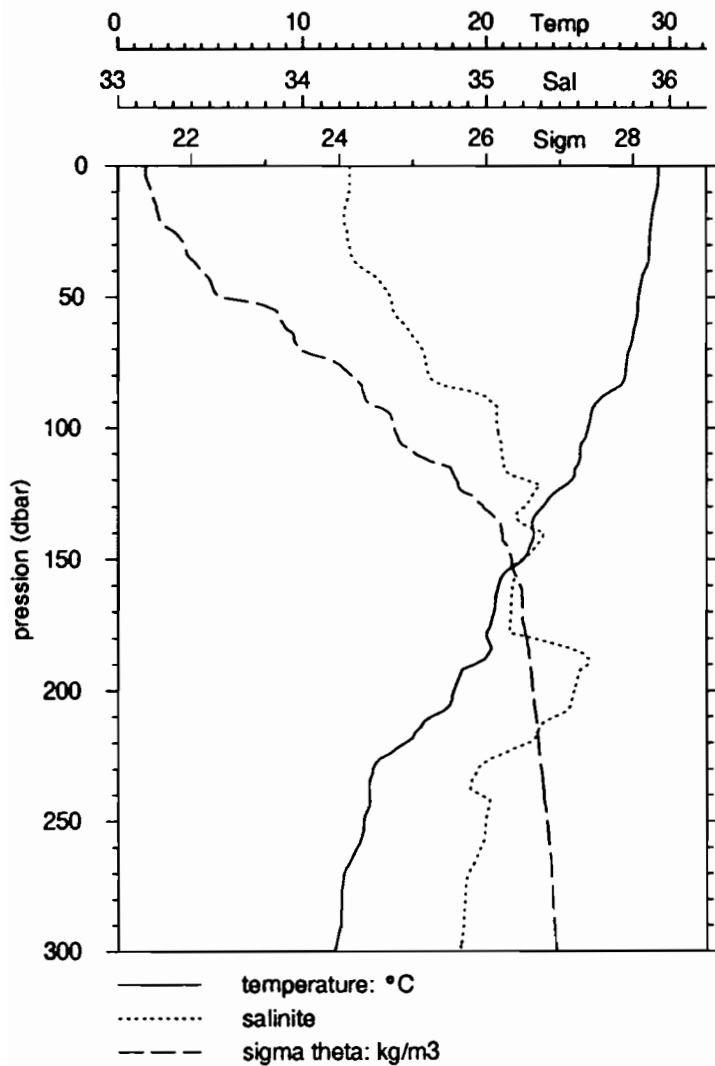


# EQUALIS -station 94

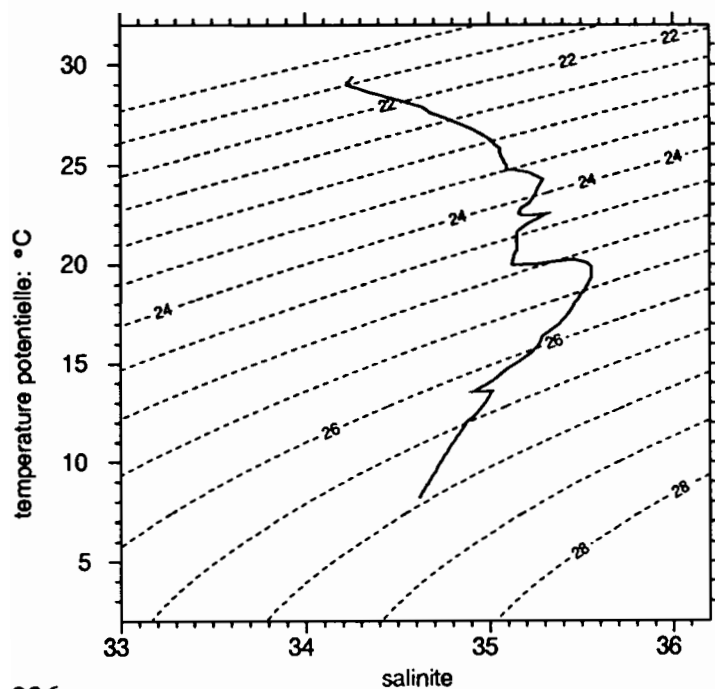
19/11/92, 1h53 TU

1°30 S 156°15 E

19/11/92, 11h53 locale



	P	T	S
debut	6.0	29.387	34.255
fin	502.0	8.217	34.617



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.294	34.251		
20.0	29.012	34.225		
30.0	28.885	34.251		
40.0	28.624	34.346		
50.0	28.282	34.480		
75.0	27.644	34.670		
100.0	25.533	35.062		
125.0	23.687	35.255		
150.0	22.007	35.197		
200.0	18.209	35.475		
250.0	13.284	34.992		
300.0	11.667	34.850		
400.0	9.800	34.717		
500.0	8.252	34.619		

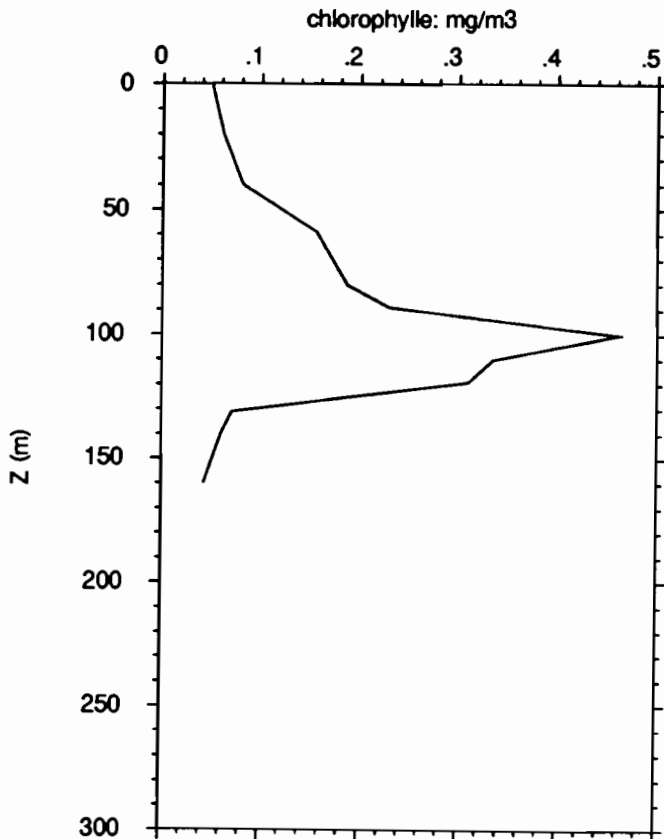
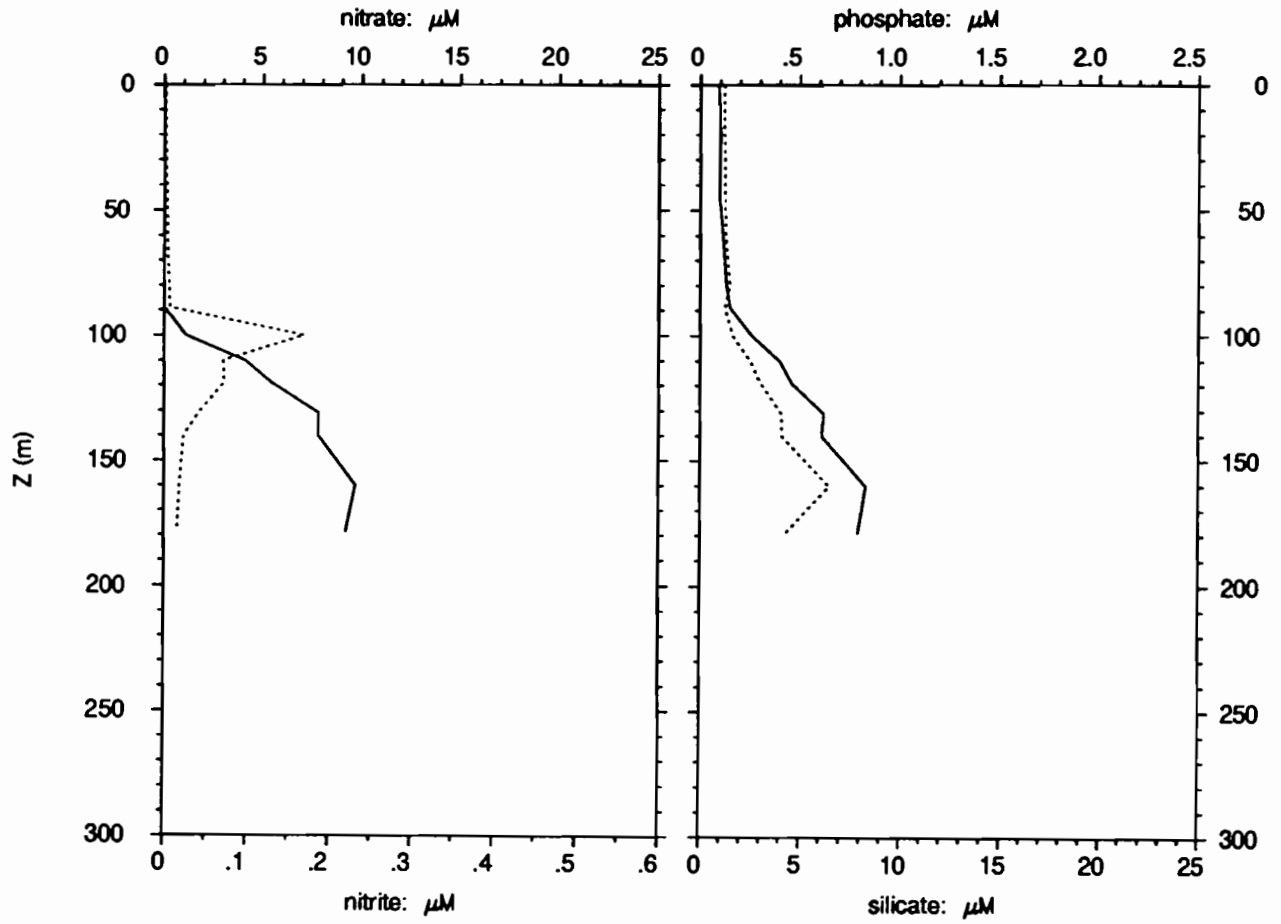
# EQUALIS - station 94

1°30 S 156°15 E

19/11/92, 1h53 TU

19/11/92, 11h53 locale

— nitrate                      — phosphate  
 - - - nitrite                    - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.002	0.09	1.2
20	0.004	0.002	0.10	1.2
40	0.000	0.003	0.09	1.2
59	0.002	0.004	0.11	1.3
80	0.009	0.006	0.13	1.5
89	0.002	0.007	0.15	1.2
100	1.101	0.170	0.26	1.6
110	4.09	0.072	0.40	2.5
119	5.43	0.073	0.46	3.0
131	7.83	0.042	0.62	4.1
140	7.81	0.024	0.61	4.1
160	9.67	0.019	0.83	6.5
179	9.21	0.016	0.79	4.3

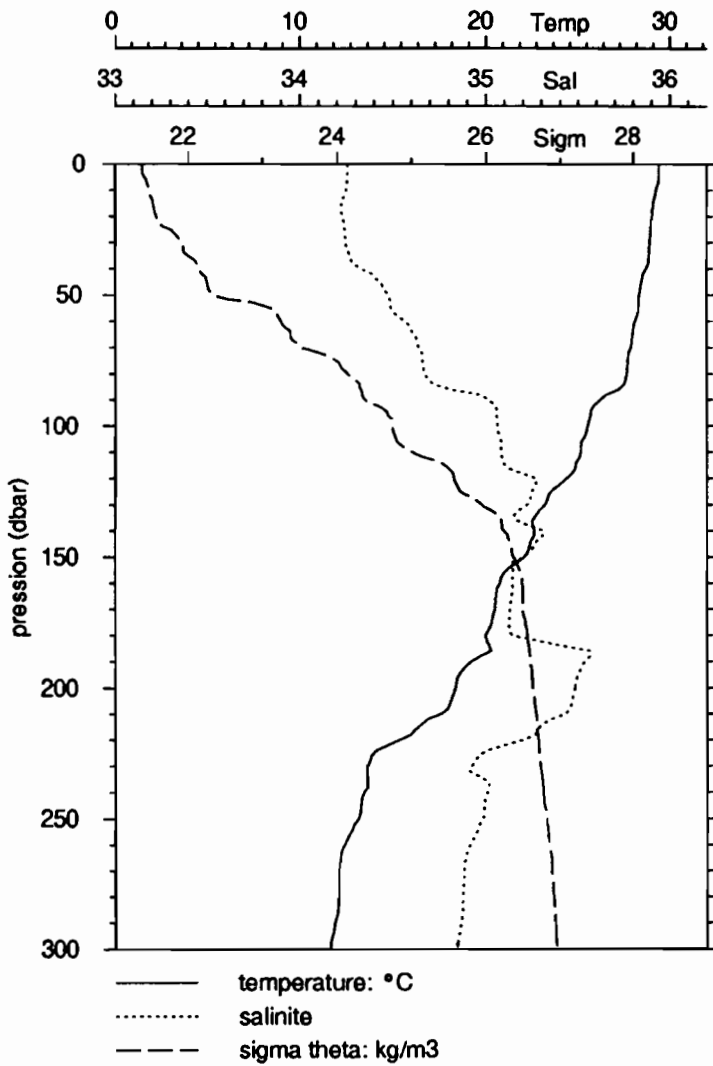
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.00	34.30	0.049		
20	28.90	34.13	0.061	0.021	25.55
40	28.48	34.40	0.081	0.049	37.51
59	28.04	34.44	0.156	0.114	42.22
80	27.59	34.31	0.187	0.202	51.94
89	26.39	34.74	0.229	0.230	50.10
100	27.59	34.79	0.462	0.536	53.69
110	25.12	34.84	0.335	0.425	55.97
119	24.76	34.30	0.310	0.390	55.69
131	22.95	34.91	0.071	0.115	61.77
140	22.55	34.62	0.060	0.104	63.43
160	20.51	35.05	0.043	0.076	63.75
179	20.17	35.49			

# EQUALIS -station 95

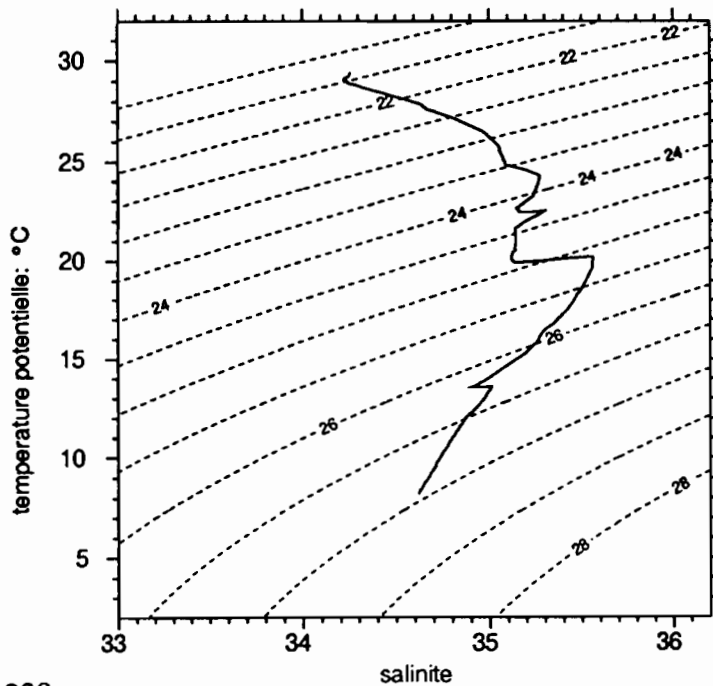
1°30 S 156°15 E

19/11/92, 4h 3 TU

19/11/92, 14h 3 locale



	P	T	S
debut	6.0	29.417	34.256
fin	498.0	8.259	34.618



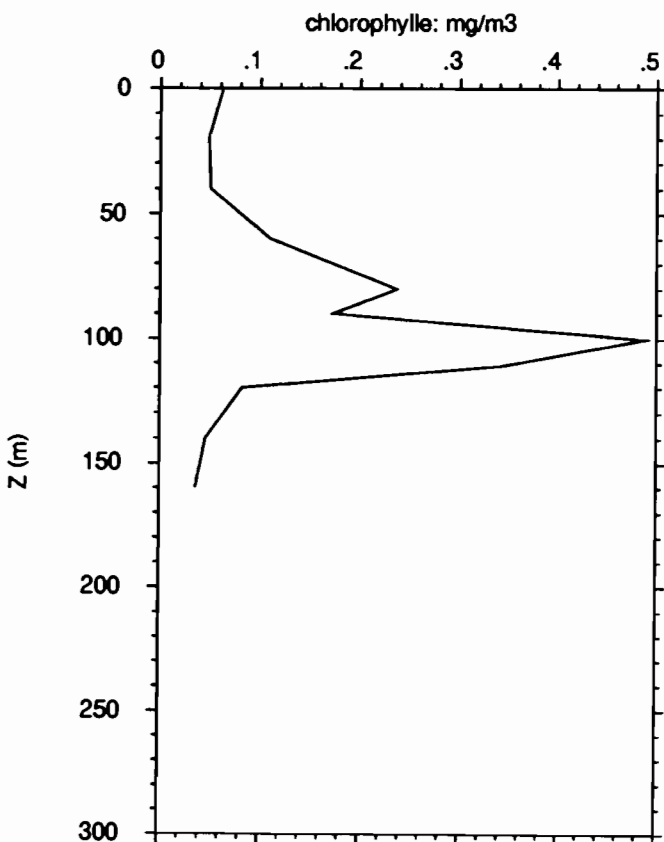
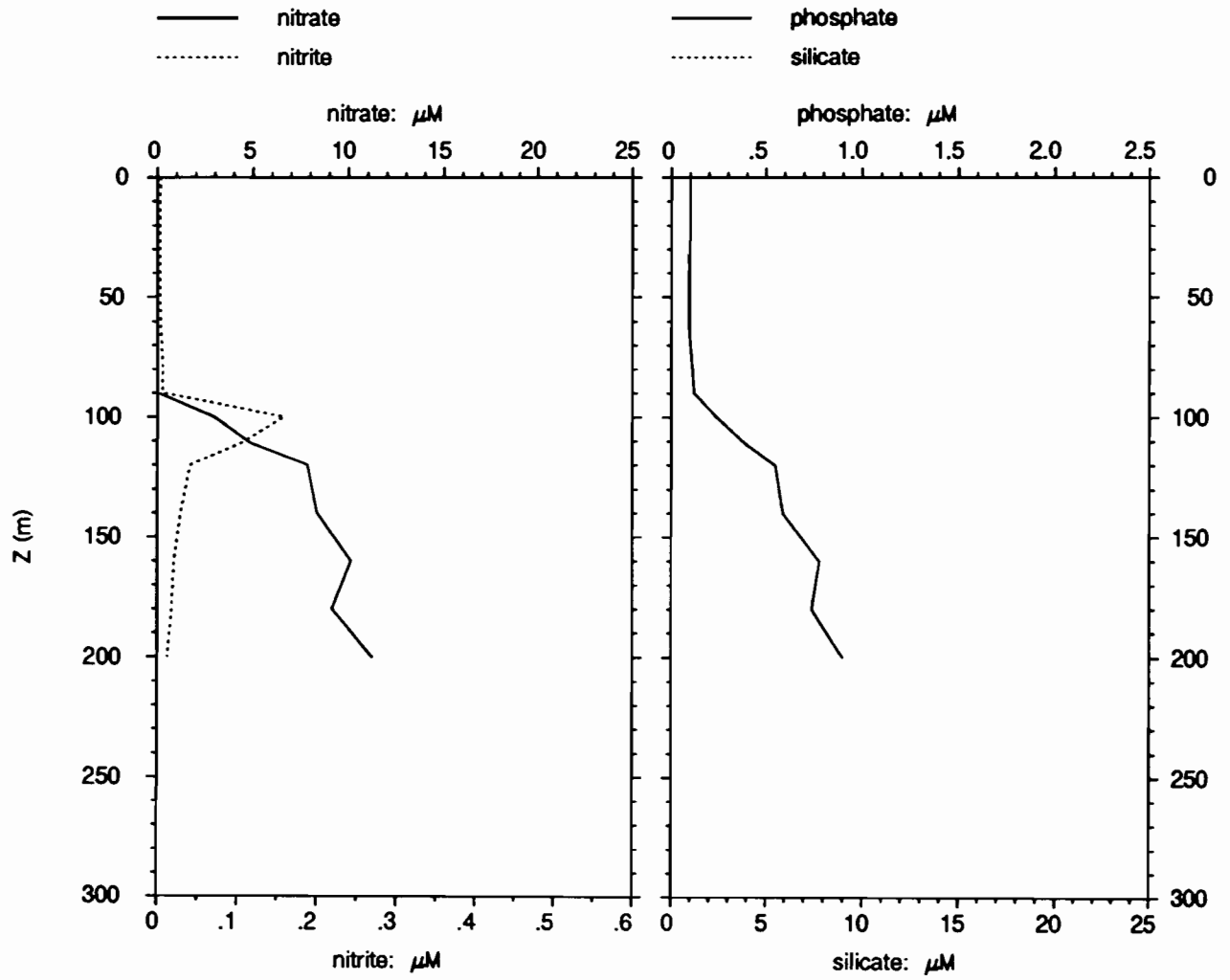
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.240	34.248		
20.0	29.021	34.226		
30.0	28.898	34.243		
40.0	28.691	34.325		
50.0	28.313	34.472		
75.0	27.693	34.658		
100.0	25.492	35.062		
125.0	23.487	35.245		
150.0	22.038	35.199		
200.0	18.336	35.477		
250.0	13.130	34.983		
300.0	11.608	34.840		
400.0	9.870	34.722		

# EQUALIS - station 95

1°30 S 156°15 E

19/11/92, 4h 3 TU

19/11/92, 14h 3 locale



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.004	0.004	0.10	
20	0.002	0.003	0.10	
40	0.004	0.003	0.09	
60	0.003	0.004	0.09	
80	0.008	0.007	0.11	
90	0.002	0.006	0.12	
100	2.96	0.159	0.24	
111	4.87	0.105	0.39	
120	7.84	0.041	0.55	
140	8.35	0.029	0.59	
160	10.12	0.021	0.78	
180	9.14	0.018	0.74	
200	11.23	0.013	0.90	

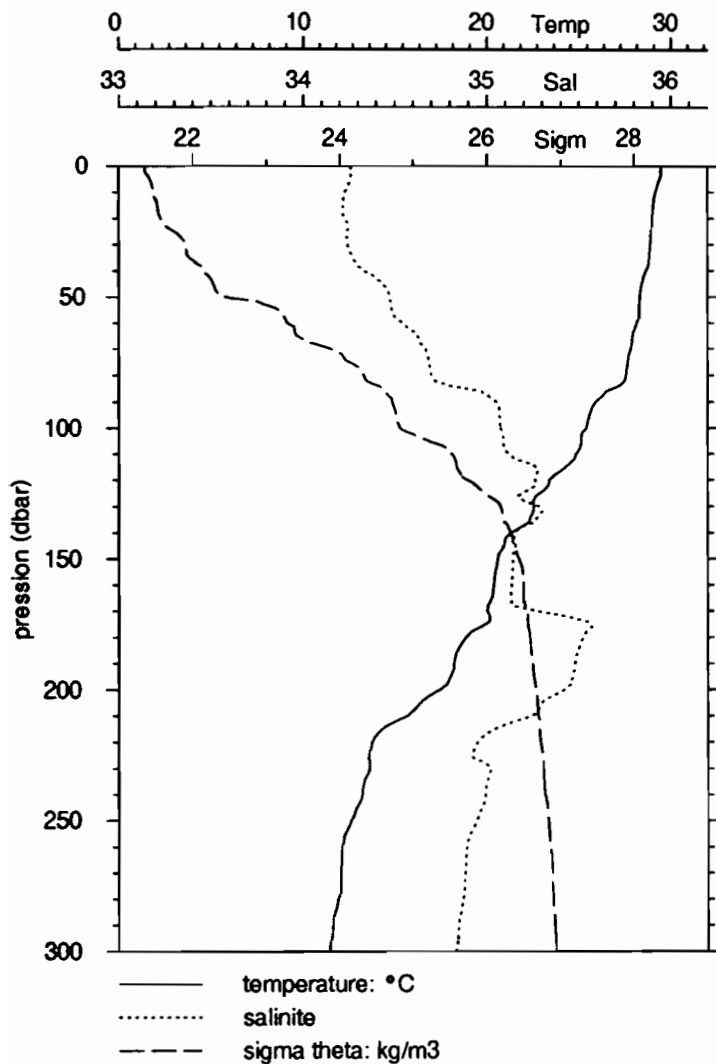
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.10	34.26	0.062	0.036	36.47
20	29.03	34.14	0.048	0.030	38.57
40	28.81	34.11	0.050	0.047	48.62
60	28.25	34.38	0.110	0.098	47.13
80	27.69	34.34	0.237	0.213	47.35
90	27.00	33.98	0.173	0.224	56.46
100	25.48	34.65	0.489	0.572	53.89
111	24.93	34.20	0.342	0.407	54.31
120	23.26	34.78	0.082	0.151	64.86
140	22.29	34.62	0.046	0.096	67.39
160	20.50	34.90	0.036	0.089	71.39
180	19.88	34.14			
200	17.67	35.39			

# EQUALIS -station 97

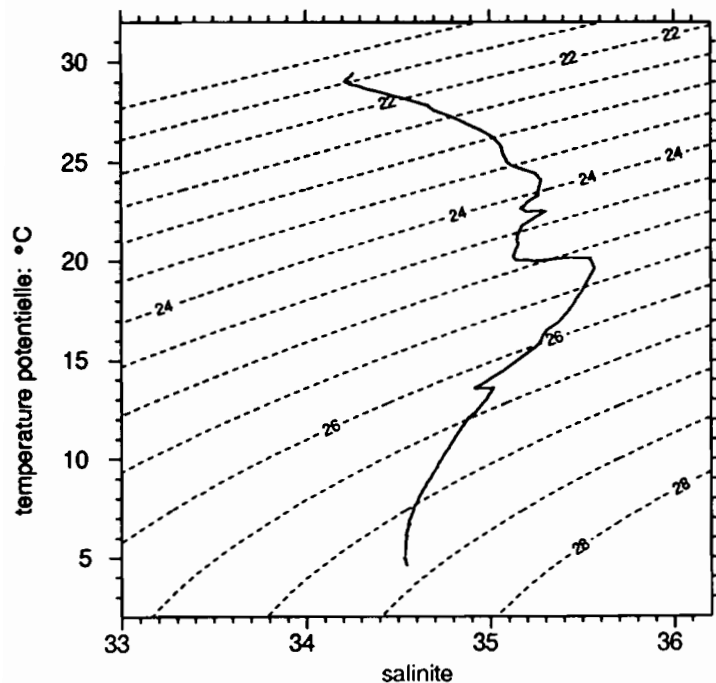
1°30 S 156°15 E

19/11/92, 7h 2 TU

19/11/92, 17h 2 locale



	P	T	S
debut	4.0	29.460	34.260
fin	1002.0	4.646	34.547



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.162	34.228		
20.0	29.015	34.224		
30.0	28.885	34.242		
40.0	28.649	34.335		
50.0	28.313	34.471		
75.0	27.653	34.687		
100.0	25.398	35.072		
125.0	22.858	35.192		
150.0	20.599	35.140		
200.0	17.451	35.421		
250.0	12.628	34.944		
300.0	11.410	34.832		
400.0	9.754	34.718		
500.0	8.317	34.627		
600.0	6.780	34.560		
700.0	6.213	34.543		
800.0	5.763	34.542		
900.0	4.958	34.540		
1000.0	4.651	34.547		

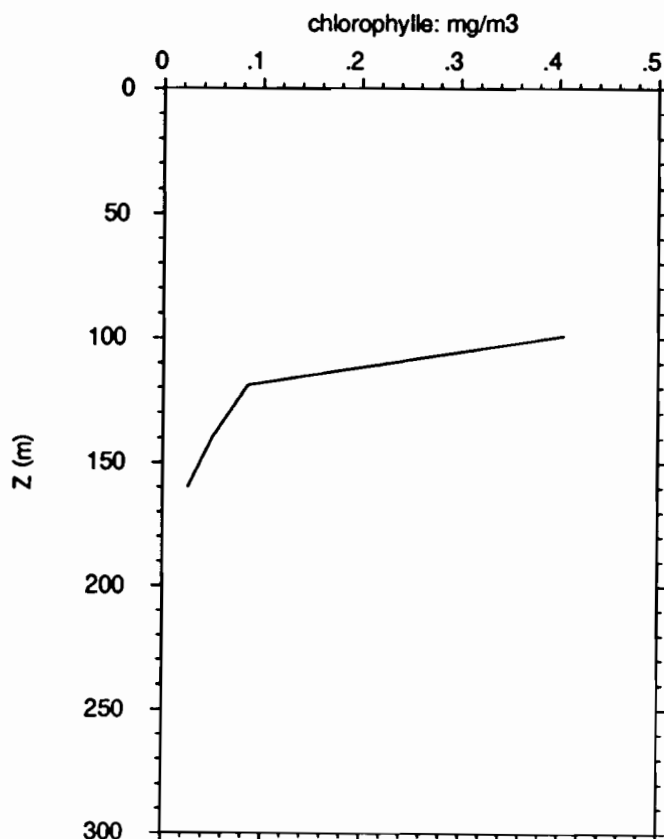
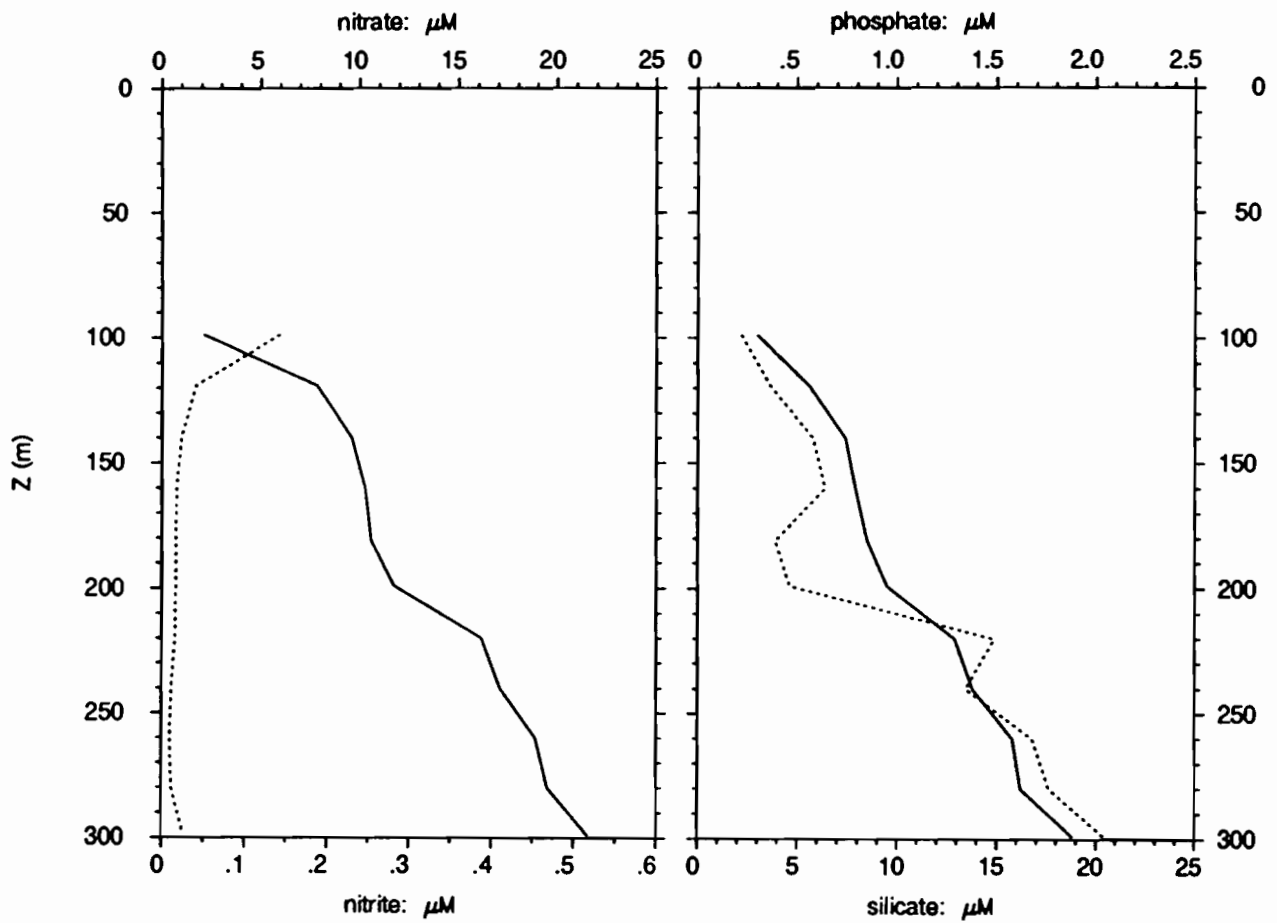
# EQUALIS - station 97

1°30 S 156°15 E

19/11/92, 7h 2 TU

19/11/92, 17h 2 locale

— nitrate                      — phosphate  
 - - - nitrite                    - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
99	2.10	0.143	0.30	2.2
119	7.84	0.041	0.56	3.7
140	9.60	0.024	0.74	5.8
160	10.27	0.018	0.79	6.4
181	10.58	0.017	0.85	3.9
199	11.73	0.017	0.95	4.6
220	16.16	0.016	1.29	14.9
240	17.10	0.012	1.38	13.4
260	18.90	0.010	1.58	16.8
280	19.52	0.012	1.62	17.6
299	21.54	0.026	1.88	20.4
1001	27.53	0.015	2.85	59.9

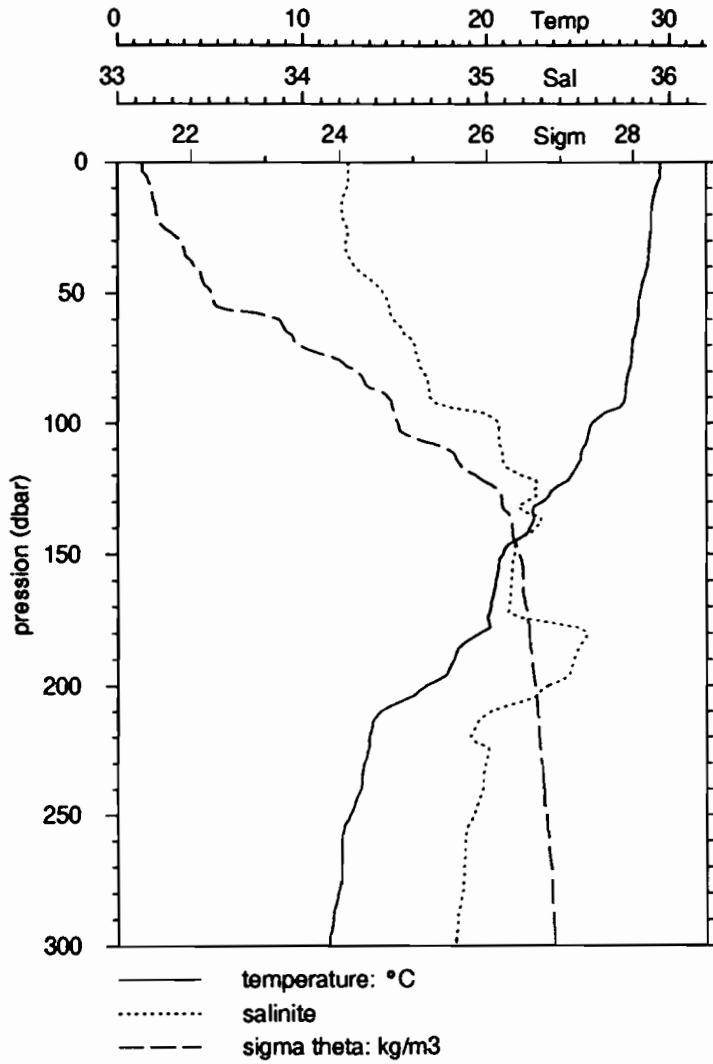
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
99	25.41	34.79	0.405	0.453	52.79
119	23.36	35.23	0.085	0.149	63.73
140	20.96	35.02	0.049	0.122	71.37
160	20.33	35.11	0.025	0.051	67.33
181	18.36	35.12			
199	17.19	34.32			
220	13.75	34.81			
240	13.18	34.79			
260	12.19	34.76			
280	12.02	34.49			
299	11.45	34.82			
1001	4.65	34.54			

# EQUALIS -station 98

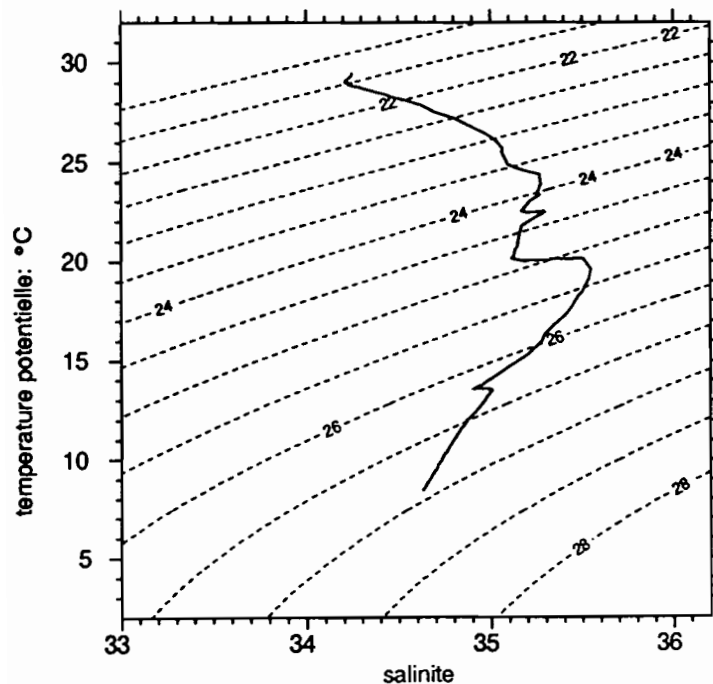
1°30 S 156°15 E

19/11/92, 8h32 TU

19/11/92, 18h32 locale



	P	T	S
debut	6.0	29.487	34.247
fin	500.0	8.451	34.630



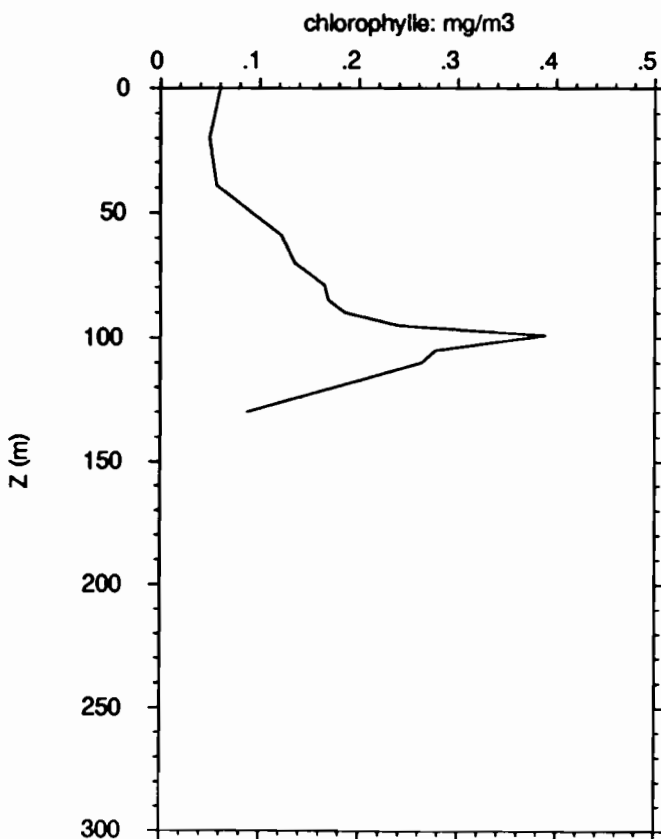
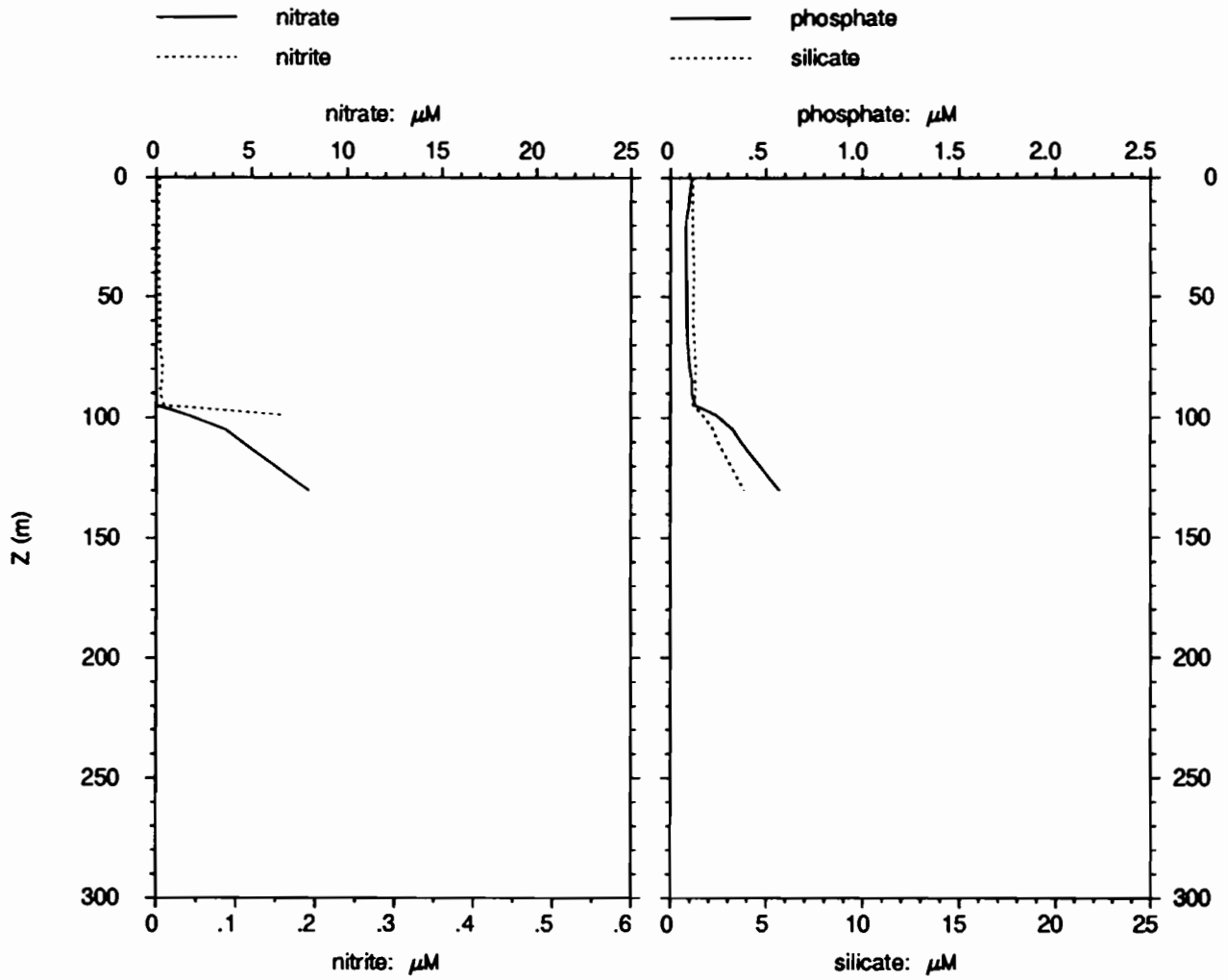
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.260	34.238		
20.0	29.011	34.212		
30.0	28.907	34.232		
40.0	28.795	34.282		
50.0	28.403	34.437		
75.0	27.906	34.624		
100.0	25.713	35.066		
125.0	23.681	35.264		
150.0	20.878	35.148		
200.0	16.689	35.332		
250.0	12.540	34.928		
300.0	11.399	34.825		
400.0	9.861	34.720		
500.0	8.451	34.630		

# EQUALIS - station 98

1°30 S 156°15 E

19/11/92, 8h32 TU

19/11/92, 18h32 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.006	0.004	0.11	1.2
20	0.003	0.003	0.08	1.1
39	0.002	0.004	0.08	1.2
59	0.000	0.005	0.08	1.2
70	0.001	0.005	0.09	1.3
79	0.005	0.008	0.10	1.3
85	0.001	0.007	0.11	1.3
90	0.005	0.005	0.11	1.3
95	0.005	0.010	0.13	1.2
99	1.63	0.161	0.24	1.7
105	3.65		0.33	2.2
110	4.49		0.37	2.5
130	8.02		0.57	3.9

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.86	34.25	0.060	0.043	41.45
20	29.01	34.15	0.049	0.044	47.38
39	28.80	34.19	0.056	0.052	47.83
59	28.27	34.41	0.122	0.089	42.09
70	27.96	34.52	0.135	0.128	48.60
79	27.69	34.58	0.165	0.187	53.13
85	27.57	34.36	0.169	0.218	56.33
90	27.02	34.34	0.186	0.221	54.22
95	26.08	34.98	0.239	0.292	55.04
99	25.53	34.93	0.389	0.505	56.50
105	25.16	35.00	0.277	0.395	58.76
110	25.10	34.85	0.263	0.428	61.93
130	22.79	35.16	0.087	0.134	60.75

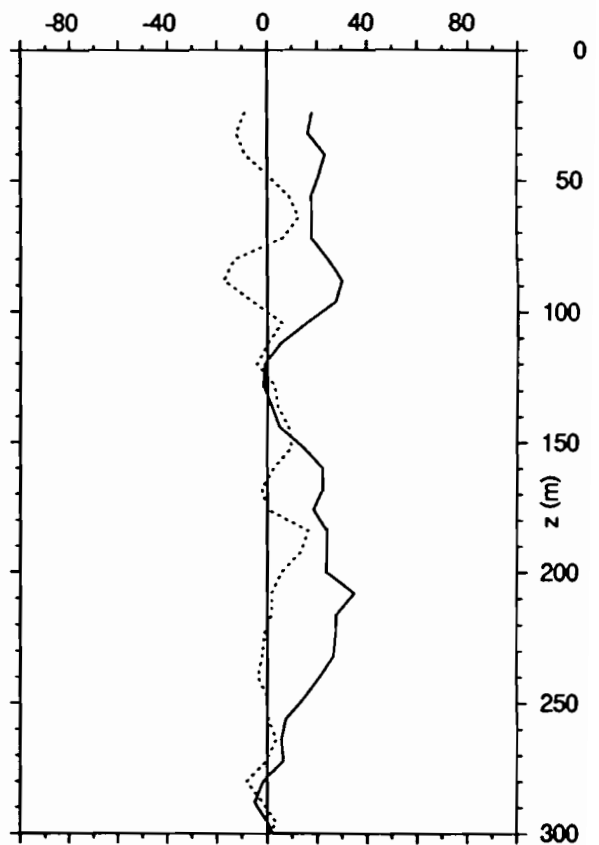
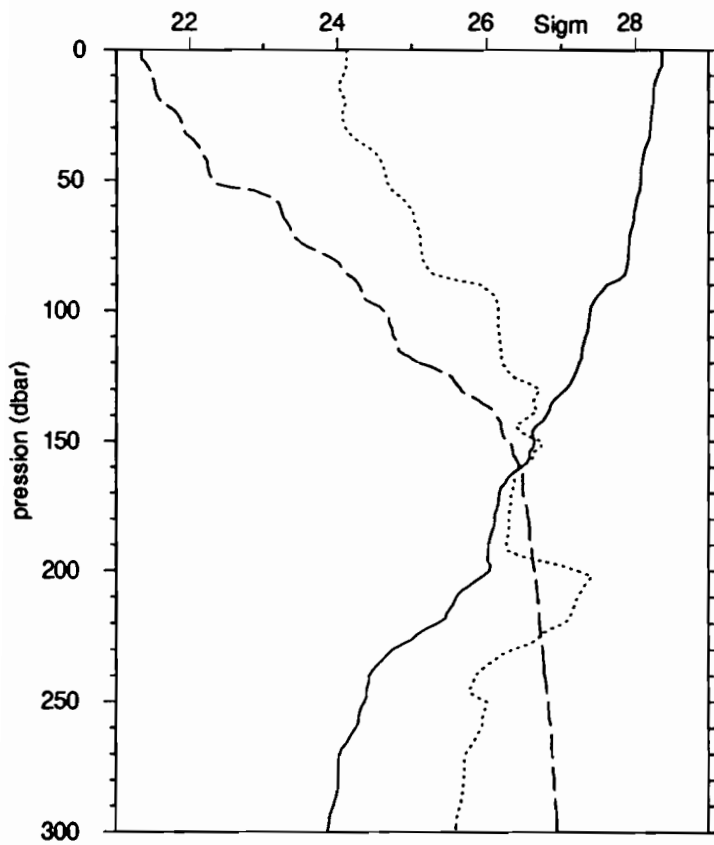
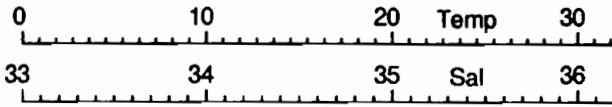


# EQUALIS -station 99

1° 30 S 156° 15 E

19/11/92, 10h 8 TU

19/11/92, 20h 8 locale

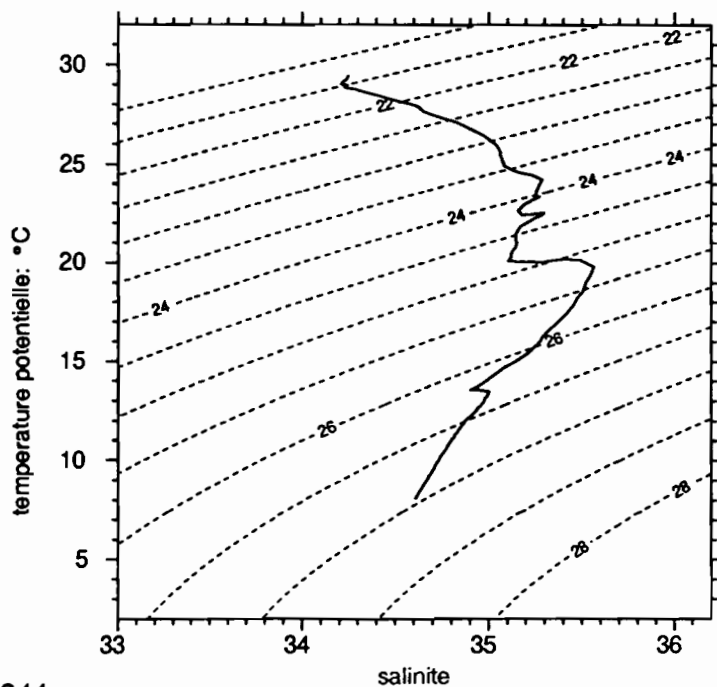


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.472	34.248
fin	502.0	8.120	34.611

	Z	U	V
debut	24.0	18.1	-8.8
fin	400.0	19.2	-18.8



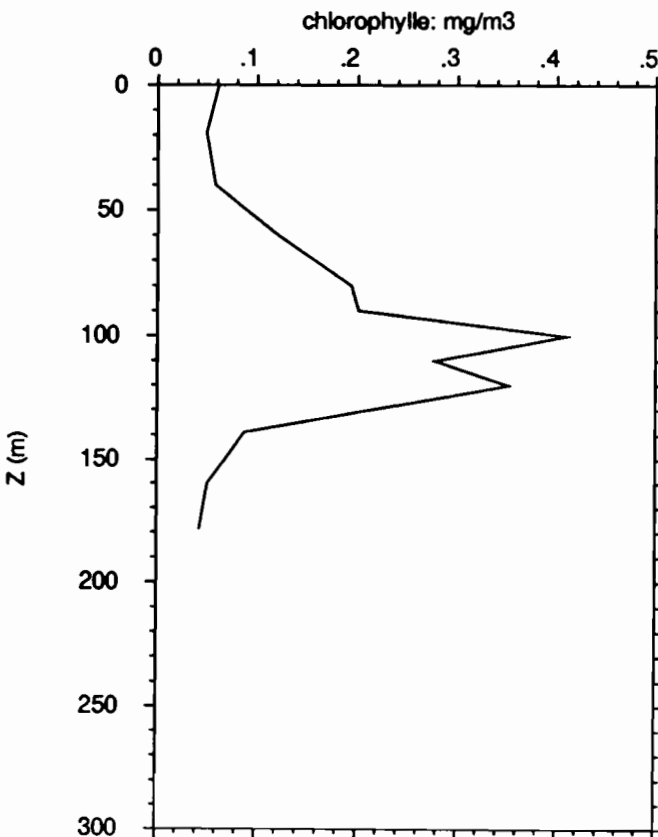
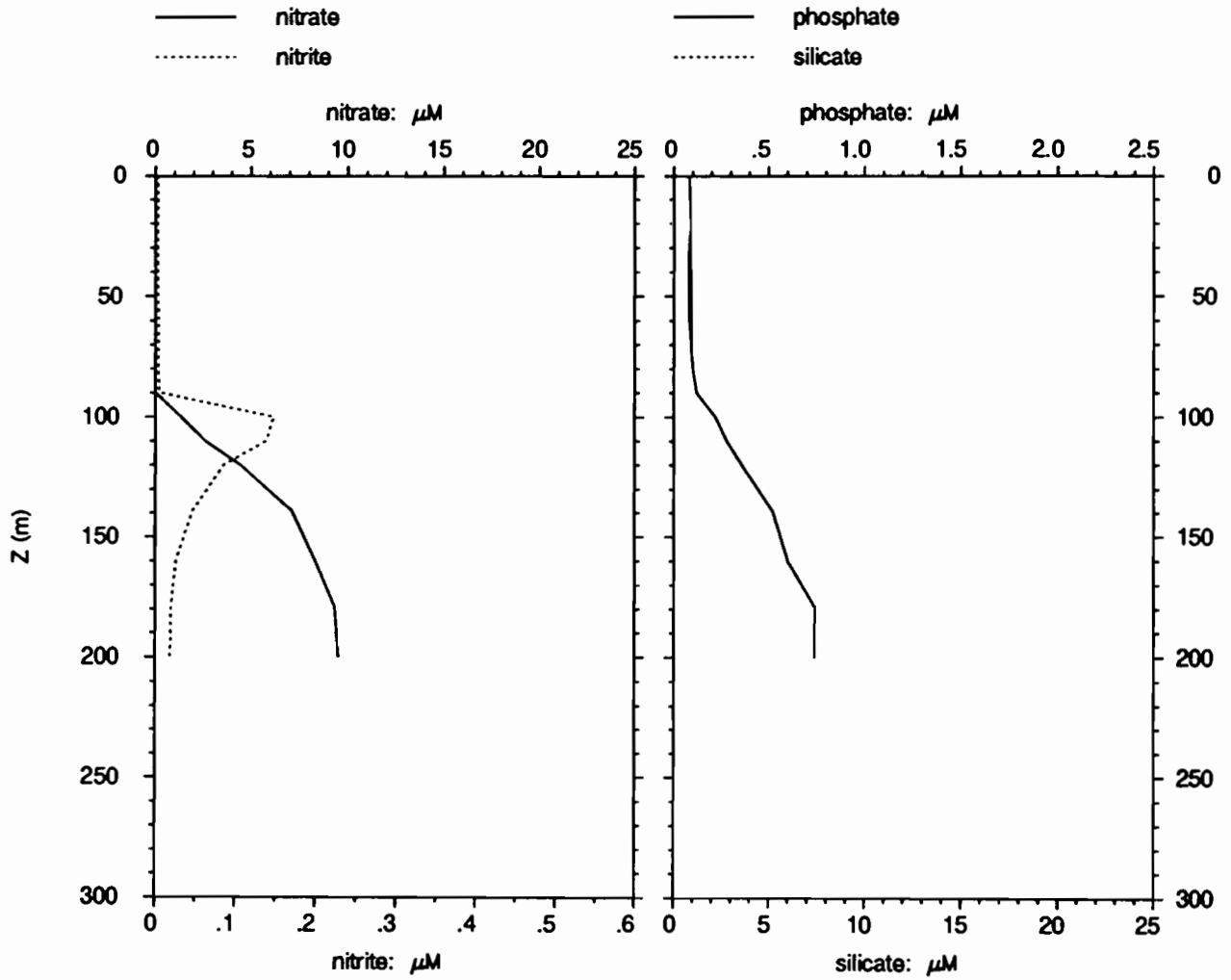
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.223	34.230		
20.0	28.979	34.243		
30.0	28.828	34.243	16.9	-11.4
40.0	28.459	34.410	23.3	-8.8
50.0	28.314	34.459	20.0	2.4
75.0	27.671	34.649	20.3	-0.9
100.0	25.561	35.063	21.6	0.0
125.0	24.685	35.144	-1.3	0.4
150.0	22.557	35.297	12.2	9.3
200.0	20.178	35.493	23.7	5.7
250.0	13.505	35.004	12.8	0.5
300.0	11.481	34.836	2.2	0.5
400.0	9.731	34.713		
500.0	8.186	34.614		

# EQUALIS - station 99

1°30 S 156°15 E

19/11/92, 10h 8 TU

19/11/92, 20h 8 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.003	0.08	
19	0.002	0.003	0.09	
40	0.003	0.003	0.07	
60	0.003	0.004	0.08	
80	0.003	0.004	0.10	
90	0.003	0.005	0.12	
100	1.351	0.148	0.22	
110	2.60	0.139	0.28	
120	4.46	0.086	0.36	
139	7.11	0.047	0.52	
160	8.33	0.026	0.60	
179	9.32	0.020	0.74	
200	9.51	0.019	0.74	

Z m	T °C	S	Chl $\text{mg/m}^3$	Pheo $\text{mg/m}^3$	%Pheo %
0	29.80	34.26	0.061	0.041	40.26
19	28.99	34.24	0.049	0.039	44.32
40	28.49	34.36	0.058	0.053	47.95
60	28.04	34.51	0.121	0.102	45.91
80	27.58	34.32	0.194	0.193	49.86
90	26.48	34.65	0.201	0.260	56.36
100	25.62	34.96	0.410	0.439	51.69
110	25.38	34.92	0.277	0.395	58.76
120	25.08	34.42	0.352	0.422	54.56
139	23.50	35.22	0.088	0.155	63.79
160	21.63	35.07	0.051	0.109	68.11
179	20.42	35.10	0.043	0.108	71.69
200	19.56	35.53			

# EQUALIS -station 100

1°30 S 156°15 E

19/11/92, 12h59 TU

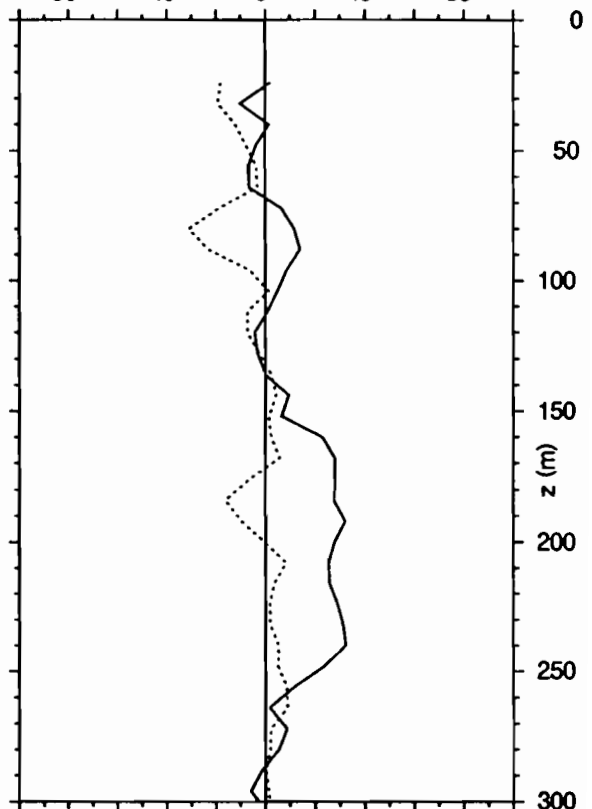
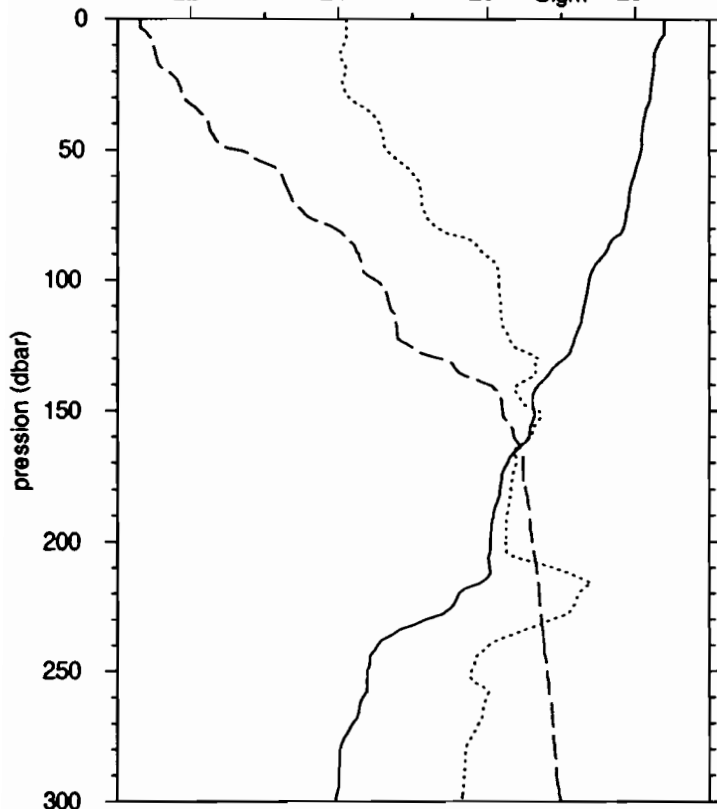
19/11/92, 22h59 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

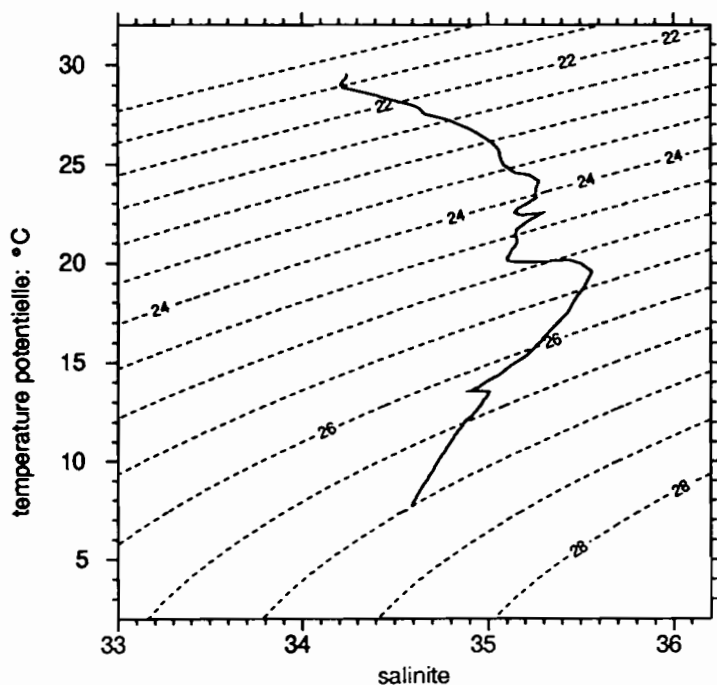


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.561	34.243
fin	502.0	7.745	34.590

	Z	U	V
debut	24.0	1.9	-18.2
fin	408.0	2.4	-15.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.227	34.228		
20.0	28.969	34.240		
30.0	28.801	34.259	-7.2	-19.1
40.0	28.421	34.422	1.6	-12.1
50.0	28.318	34.460	-4.4	-6.6
75.0	27.514	34.674	8.5	-23.4
100.0	25.514	35.064	6.7	-2.5
125.0	24.627	35.141	-3.5	-4.3
150.0	22.542	35.282	7.3	2.2
200.0	20.200	35.101	27.6	-0.3
250.0	13.601	34.916	20.6	6.0
300.0	11.844	34.862	-2.7	2.0
400.0	9.809	34.718	2.2	-13.8
500.0	7.777	34.593		

# EQUALIS - station100

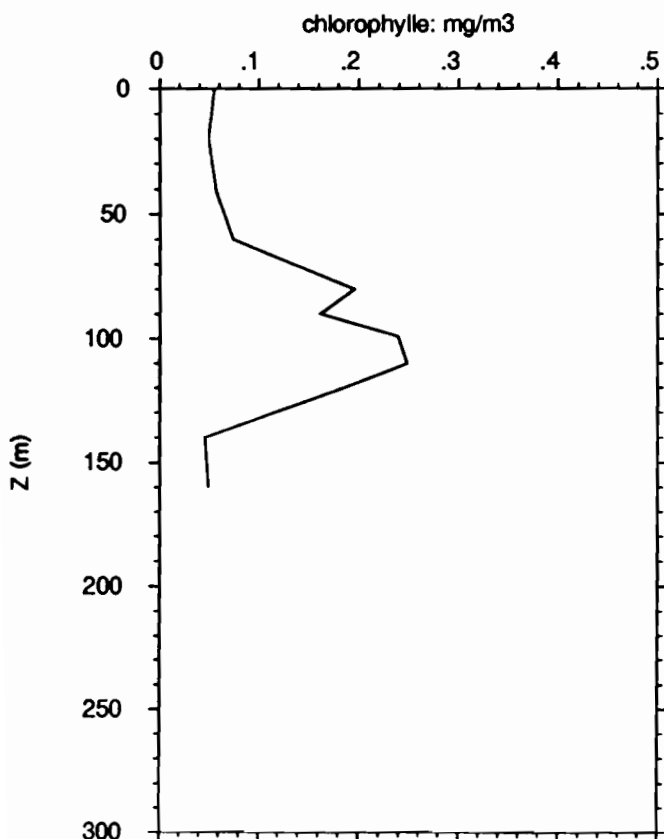
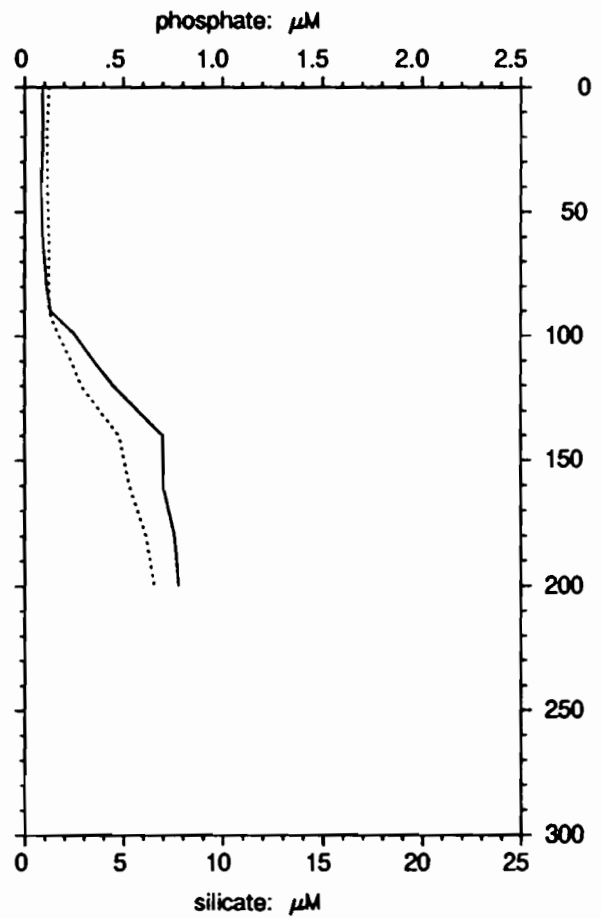
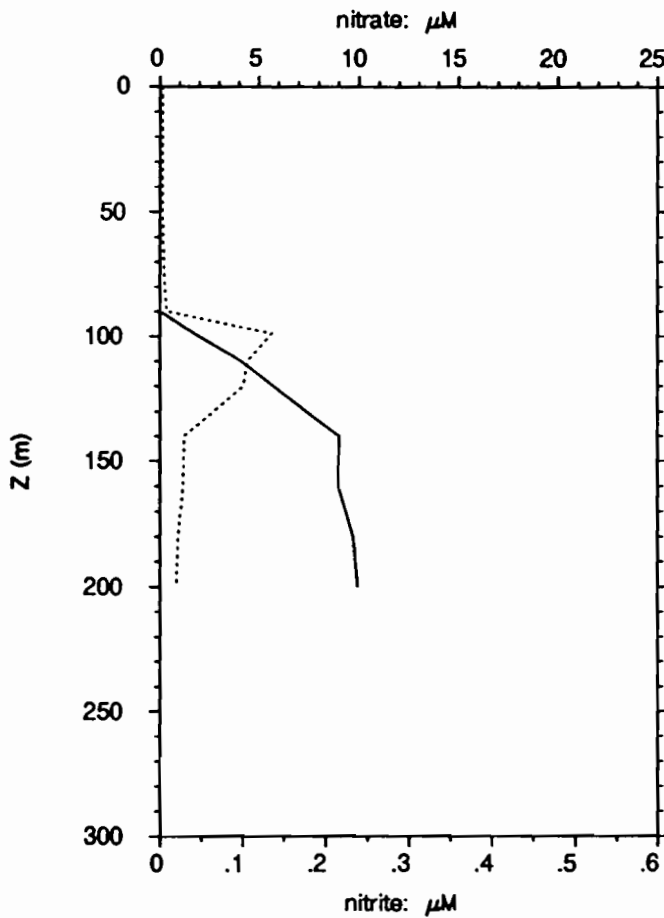
1°30 S 156°15 E

19/11/92, 12h59 TU

19/11/92, 22h59 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.003	0.09	1.2
20	0.004	0.003	0.09	1.1
41	0.001	0.003	0.08	1.1
60	0.001	0.004	0.09	1.2
80	0.001	0.006	0.11	1.2
90	0.001	0.008	0.13	1.2
99	1.74	0.136	0.25	1.7
110	4.11	0.106	0.35	2.3
120	5.74	0.101	0.45	2.9
140	9.02	0.029	0.70	4.8
160	8.98	0.028	0.70	5.3
180	9.70	0.022	0.76	6.2
200	9.94	0.020	0.78	6.6

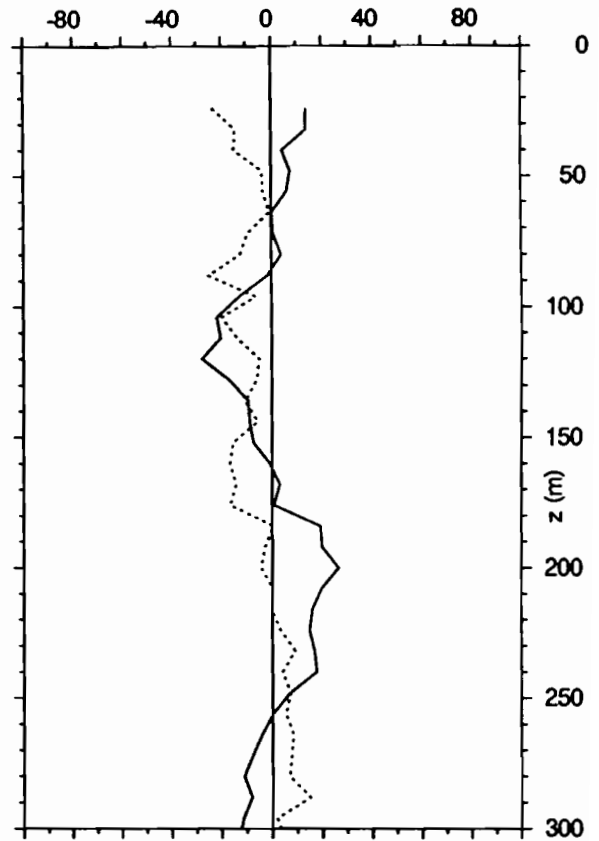
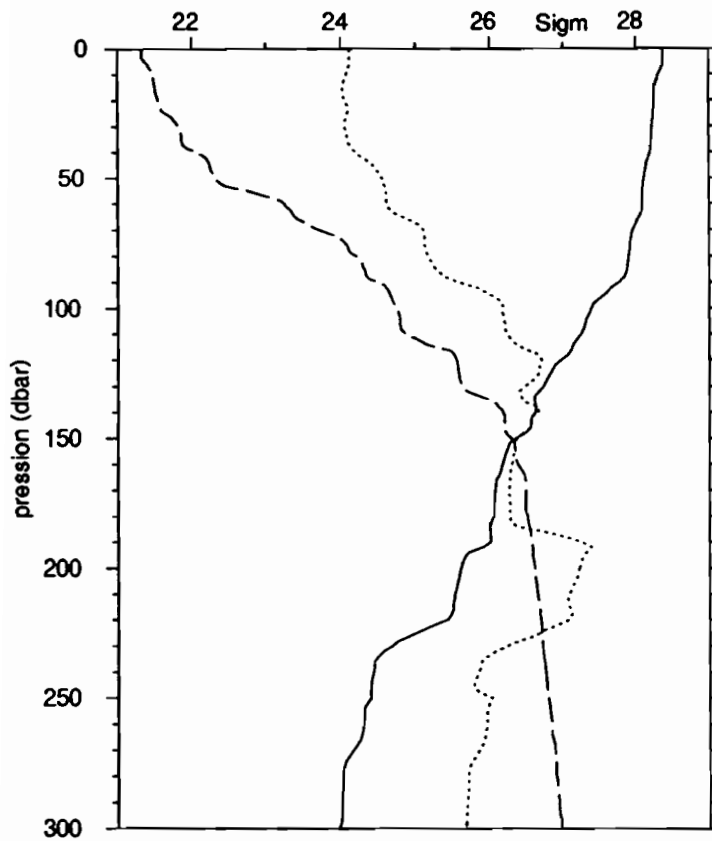
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.71	34.28	0.055	0.054	49.41
20	28.97	34.15	0.049	0.048	49.66
41	28.40	34.40	0.057	0.044	43.67
60	27.95	34.58	0.074	0.129	63.57
80	27.50	34.50	0.196	0.195	49.97
90	26.49	34.36	0.162	0.207	56.06
99	25.47	34.89	0.239	0.357	59.87
110	25.17	34.74	0.248	0.316	56.01
120	24.69	35.11	0.185	0.271	59.43
140	22.46	35.06	0.046	0.088	65.48
160	21.52	34.99	0.049	0.095	65.97
180	20.60	34.87			
200	20.16	35.09			

# EQUALIS -station 101

19/11/92, 16h 1 TU

1° 30 S 156° 15 E

20/11/92, 2h 1 locale

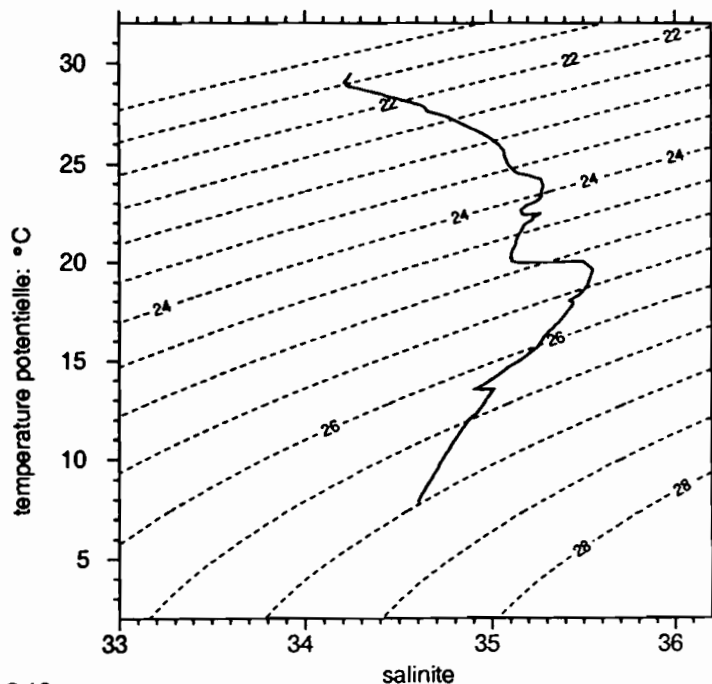


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.503	34.246
fin	500.0	7.948	34.602

	Z	U	V
debut	24.0	14.0	-23.3
fin	368.0	-9.2	18.0



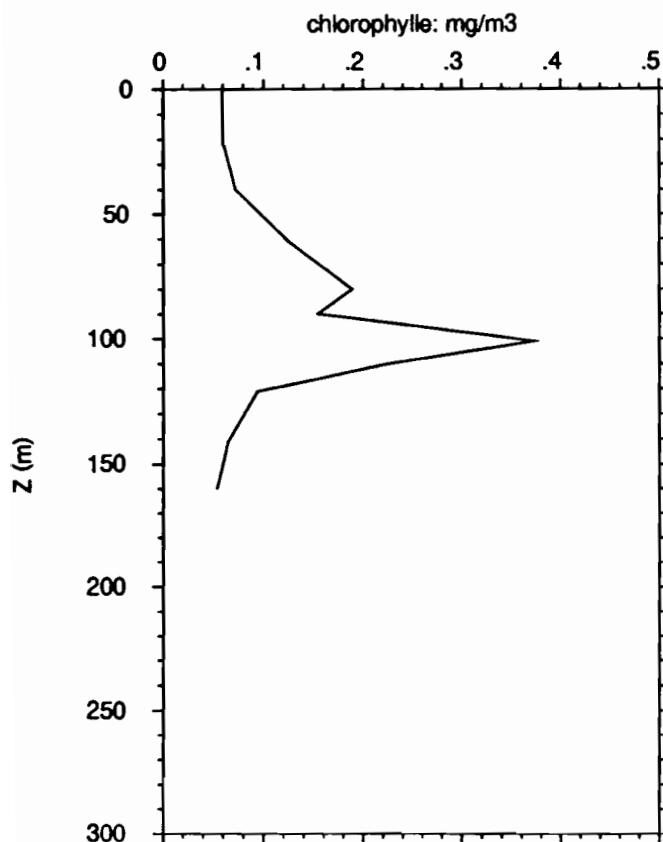
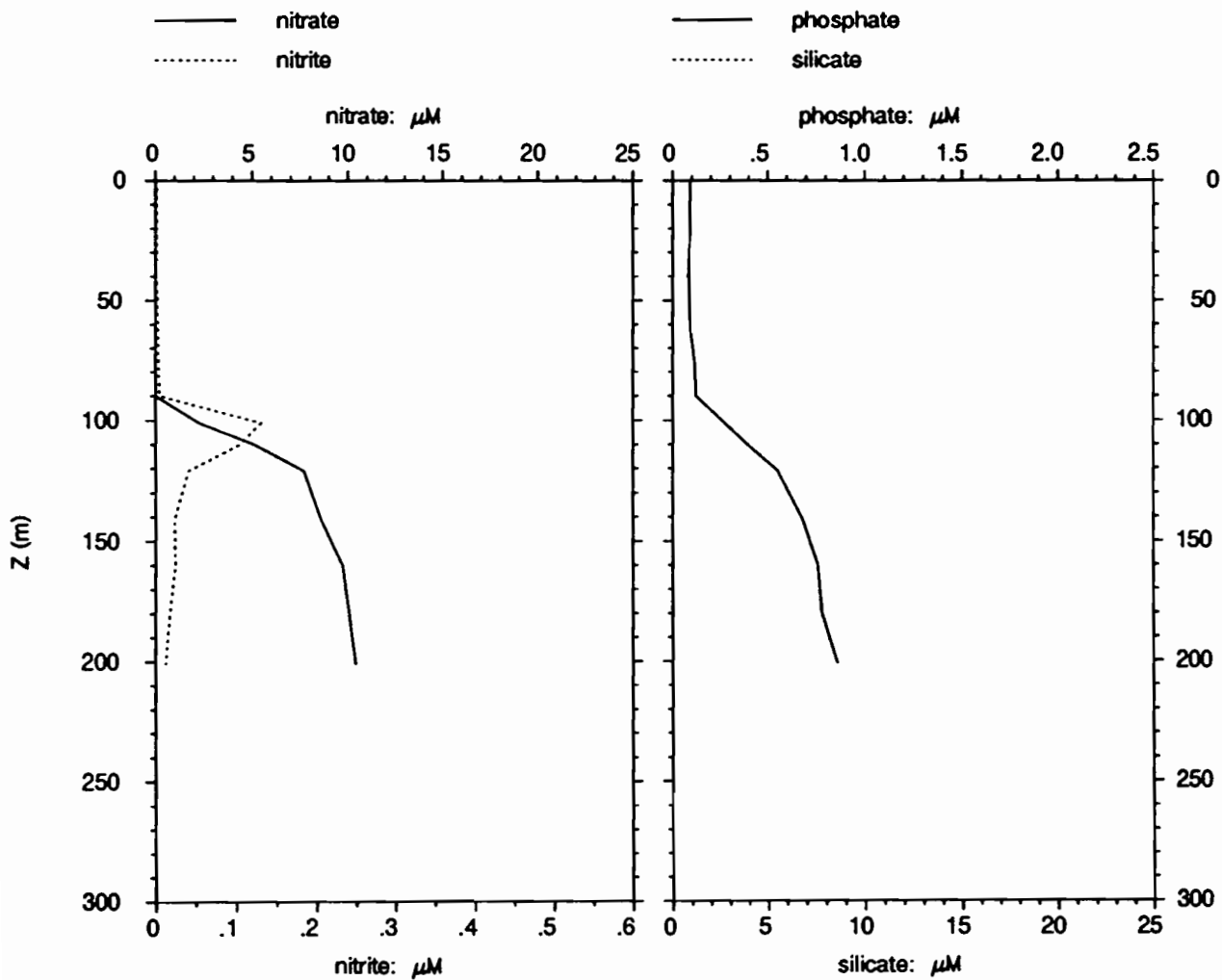
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.241	34.230		
20.0	28.989	34.222		
30.0	28.871	34.222	13.9	-16.5
40.0	28.771	34.278	4.4	-14.7
50.0	28.426	34.421	7.2	-3.6
75.0	27.675	34.648	2.0	-10.5
100.0	25.514	35.071	-17.3	-13.0
125.0	23.313	35.267	-20.9	-5.5
150.0	21.421	35.149	-7.6	-12.9
200.0	18.418	35.486	26.3	-4.3
250.0	13.583	35.011	5.3	6.8
300.0	11.913	34.867	-12.2	3.4
400.0	9.971	34.730		
500.0	7.948	34.602		

# EQUALIS - station101

1° 30 S 156° 15 E

19/11/92, 16h 1 TU

20/11/92, 2h 1 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.002	0.09	
21	0.004	0.002	0.09	
40	0.004	0.002	0.08	
61	0.004	0.003	0.09	
80	0.005	0.004	0.12	
90	0.002	0.005	0.12	
101	2.26	0.131	0.27	
110	5.12	0.105	0.39	
121	7.68	0.041	0.55	
141	8.58	0.024	0.68	
160	9.71	0.025	0.76	
180	10.05	0.018	0.78	
201	10.39	0.013	0.86	

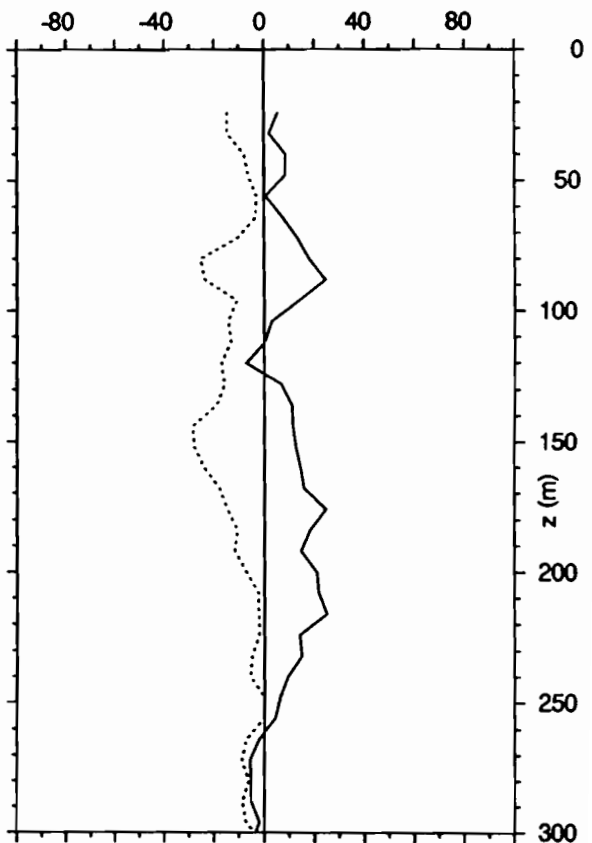
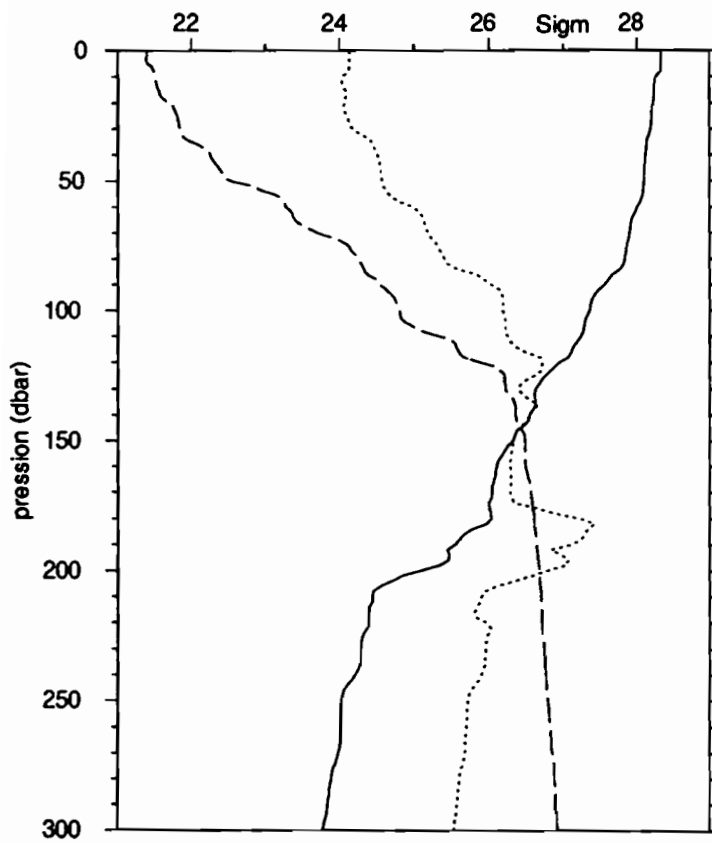
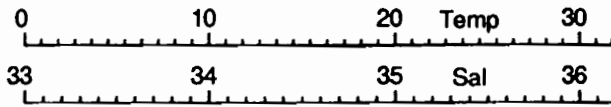
Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
0	29.62	34.28	0.059	0.019	24.86
21	28.96	34.19	0.060	0.026	30.12
40	28.53	34.30	0.072	0.047	39.32
61	28.00	34.51	0.125	0.093	42.64
80	27.52	34.34	0.189	0.182	49.12
90	26.77	34.34	0.154	0.199	56.30
101	25.33	34.80	0.374	0.422	53.02
110	24.73	34.52	0.226	0.307	57.56
121	23.25	35.10	0.094	0.140	59.90
141	22.15	34.61	0.065	0.110	62.80
160	20.58	34.93	0.054	0.100	64.80
180	20.23	35.06			
201	18.54	35.47			

# EQUALIS -station 102

19/11/92, 19h10 TU

1°30 S 156°15 E

20/11/92, 5h10 locale

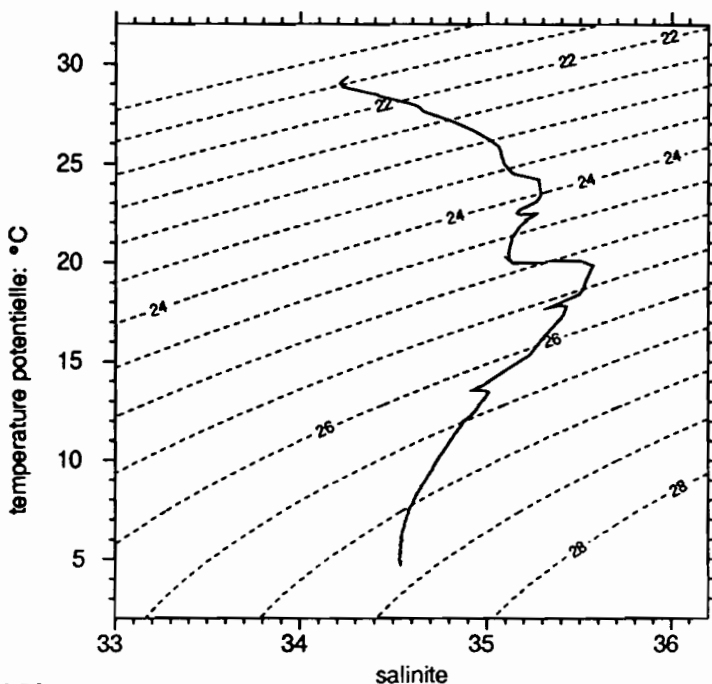


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.344	34.254
fin	998.0	4.770	34.537

	Z	U	V
debut	24.0	5.6	-14.6
fin	384.0	-1.5	-1.5



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.069	34.216		
20.0	28.901	34.224		
30.0	28.766	34.271	3.0	-14.6
40.0	28.489	34.404	8.7	-7.8
50.0	28.395	34.428	6.6	-5.5
75.0	27.444	34.726	15.0	-16.1
100.0	25.416	35.074	8.5	-12.4
125.0	23.023	35.241	1.6	-16.2
150.0	21.288	35.134	12.2	-28.1
200.0	16.329	35.308	20.8	-7.0
250.0	12.098	34.888	5.8	0.1
300.0	11.144	34.813	-3.3	-3.9
400.0	9.884	34.724		
500.0	8.422	34.632		
600.0	6.740	34.559		
700.0	6.214	34.546		
800.0	5.801	34.540		
900.0	5.360	34.536		

# EQUALIS - station102

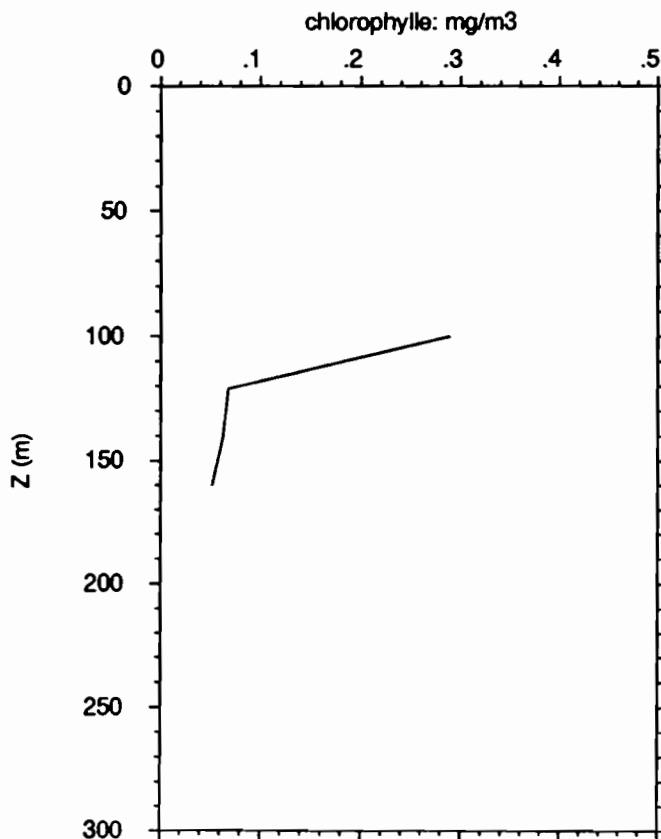
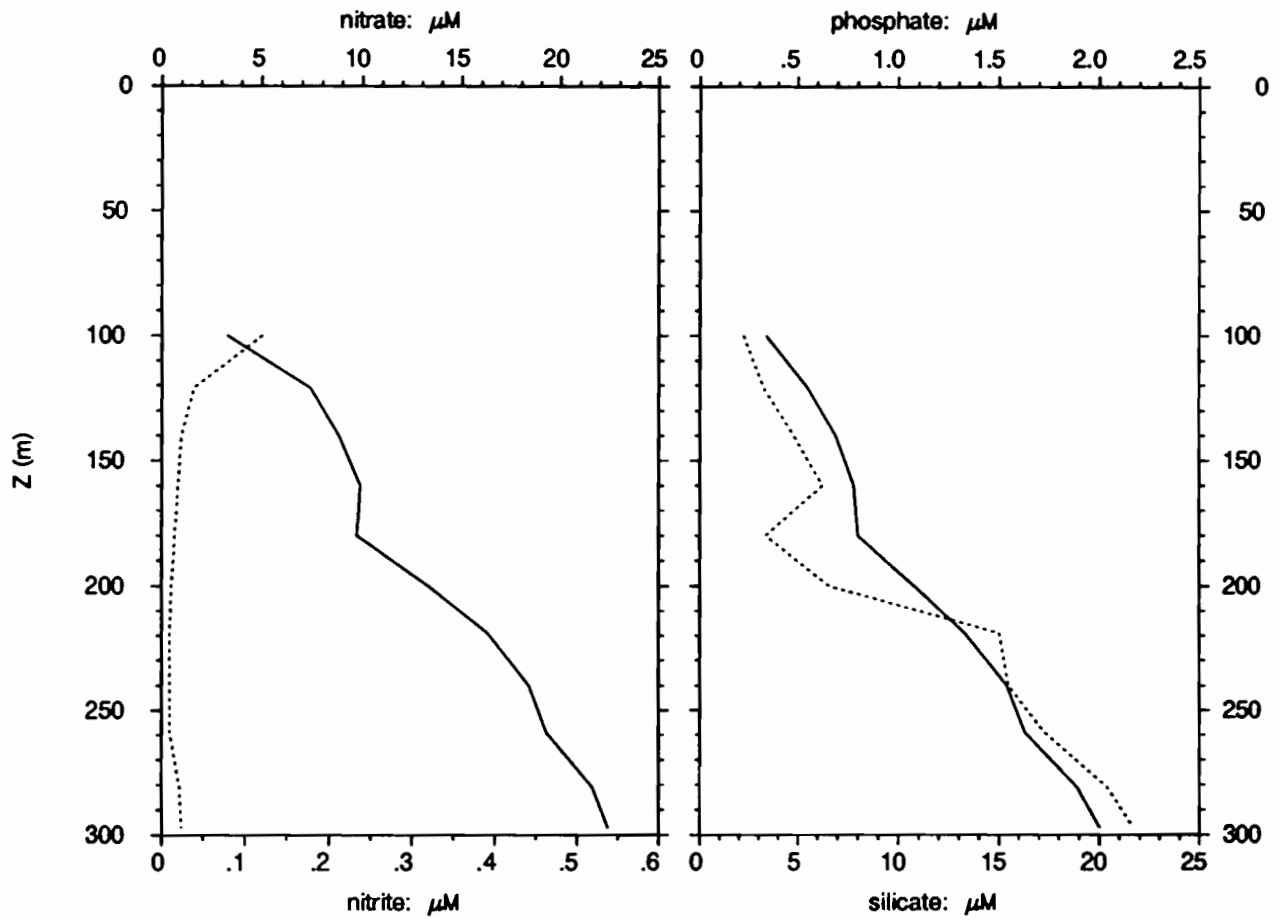
1°30 S 156°15 E

19/11/92, 19h10 TU

20/11/92, 5h10 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
100	3.30	0.121	0.34	2.2
121	7.42	0.039	0.55	3.3
140	8.84	0.024	0.69	4.8
160	9.90	0.020	0.78	6.2
180	9.74	0.016	0.80	3.4
200	13.34	0.012	1.08	6.6
219	16.30	0.010	1.33	15.0
240	18.39	0.010	1.54	15.5
259	19.28	0.010	1.63	17.3
281	21.61	0.022	1.89	20.4
297	22.40	0.024	2.00	21.7
1000	27.33	0.025	2.78	56.5

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
100	25.17	34.61	0.289	0.396	57.81
121	23.09	34.78	0.068	0.130	65.77
140	21.74	34.66	0.063	0.109	63.45
160	20.32	34.76	0.052	0.092	63.96
180	19.47	33.00			
200	15.45	33.80			
219	15.53	34.30			
240	12.37	34.76			
259	12.05	34.60			
281	11.49	34.82			
297	11.14	34.80			
1000	4.77	34.53			

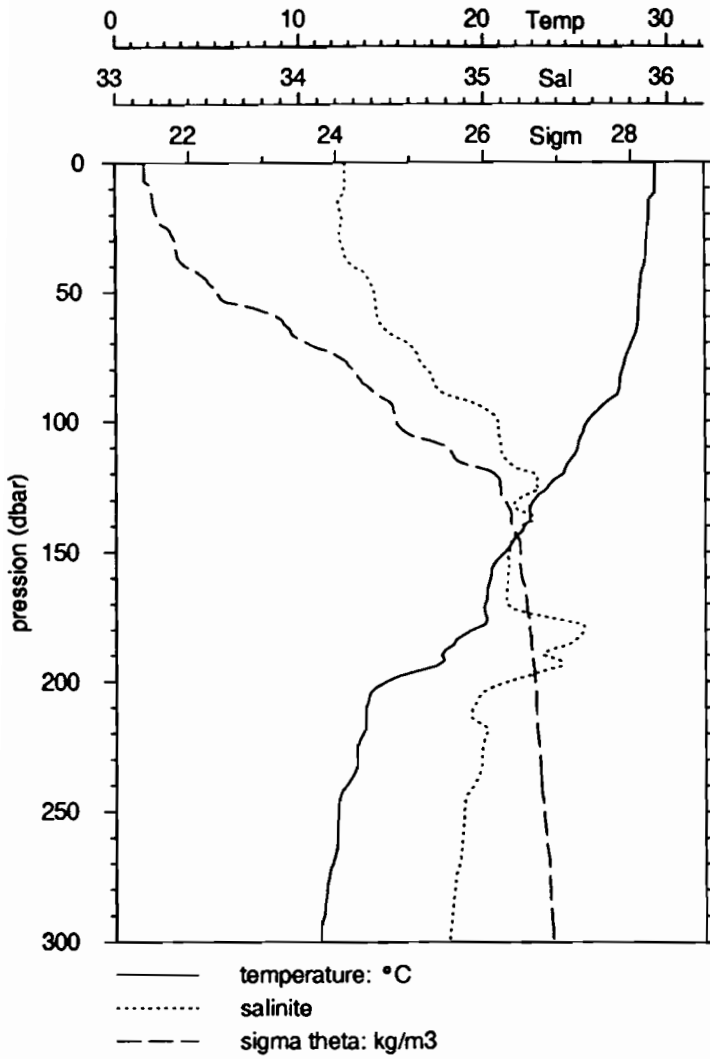


# EQUALIS -station 103

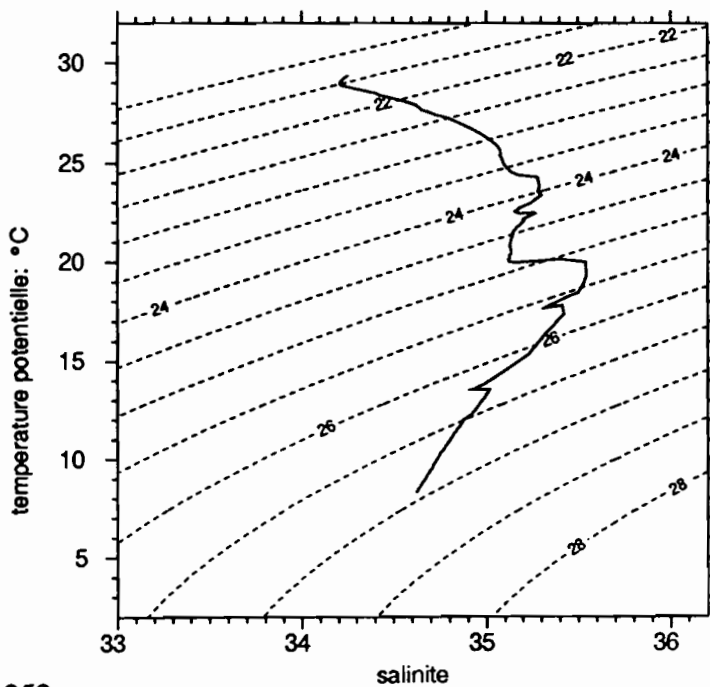
1° 30 S 156° 15 E

19/11/92, 20h25 TU

20/11/92, 6h25 locale



	P	T	S
debut	6.0	29.320	34.248
fin	498.0	8.353	34.623



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.321	34.248		
20.0	28.974	34.227		
30.0	28.851	34.221		
40.0	28.720	34.290		
50.0	28.471	34.407		
75.0	27.729	34.646		
100.0	25.636	35.076		
125.0	23.476	35.290		
150.0	21.149	35.136		
200.0	14.723	35.129		
250.0	12.082	34.887		
300.0	11.087	34.808		
400.0	9.797	34.716		

# EQUALIS - station103

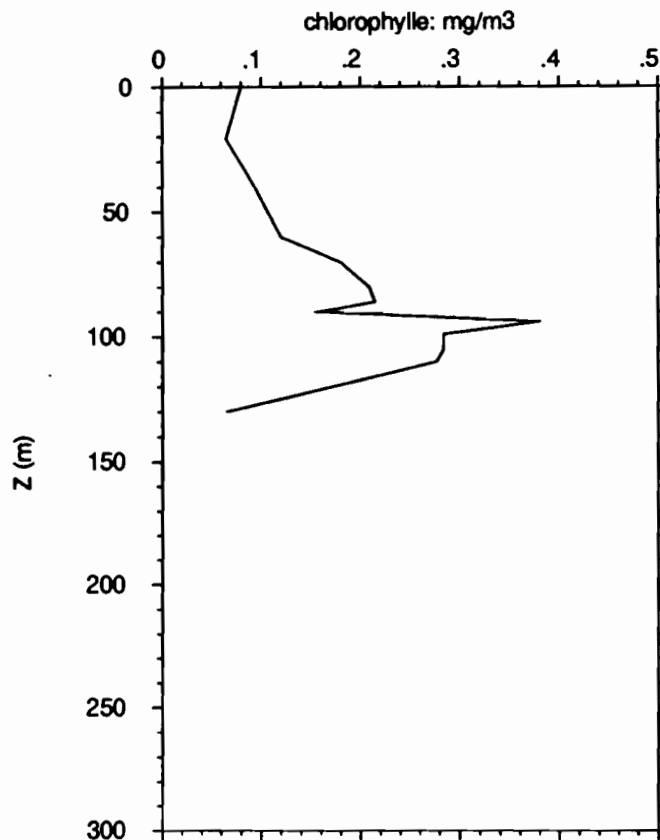
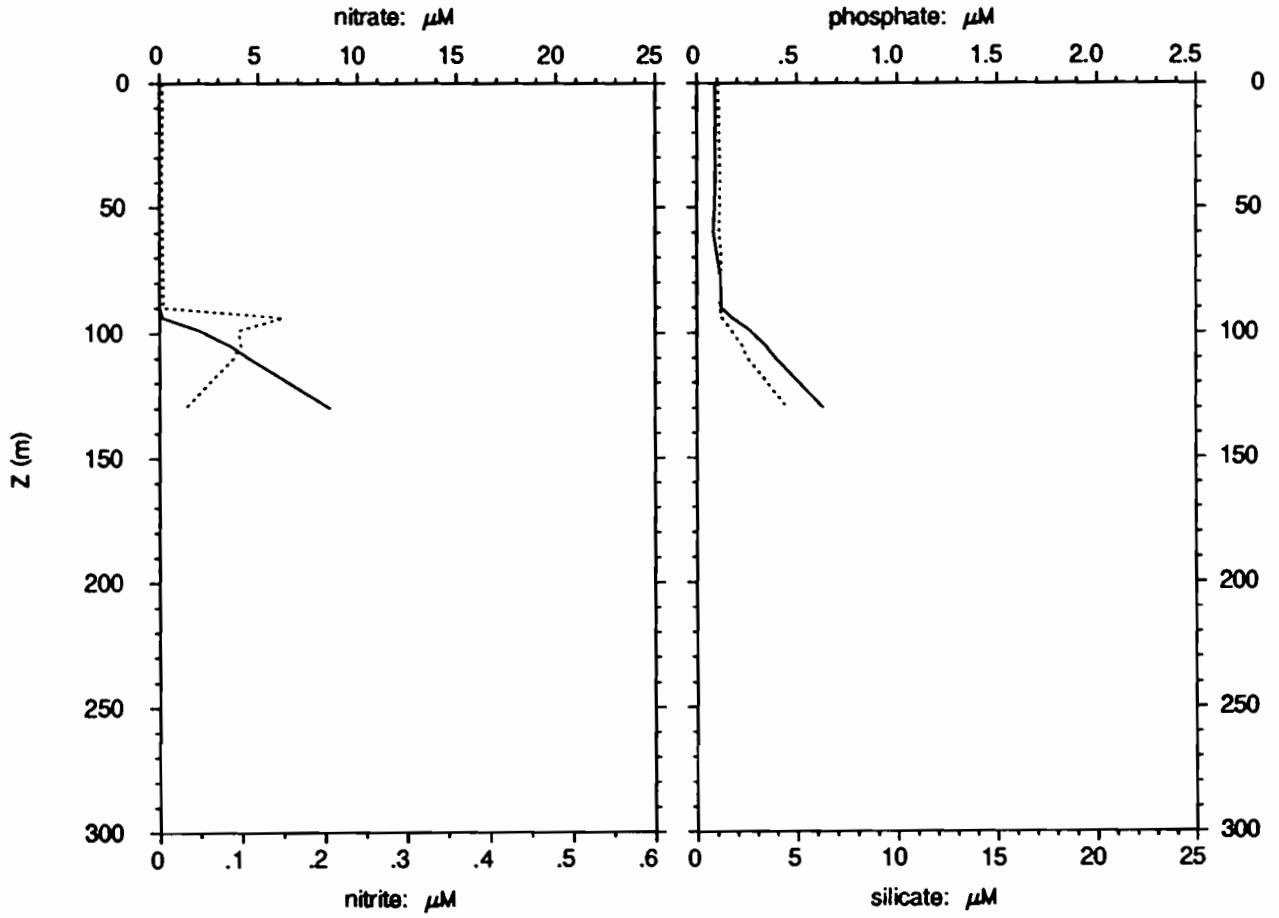
1°30 S 156°15 E

19/11/92, 20h25 TU

20/11/92, 6h25 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.004	0.09	1.1
21	0.002	0.004	0.09	1.1
40	0.002	0.003	0.09	1.1
60	0.002	0.004	0.08	1.1
70	0.002	0.004	0.10	1.2
80	0.001	0.005	0.12	1.2
86	0.003	0.005	0.12	1.1
90	0.002	0.004	0.12	1.1
94	0.171	0.150	0.17	1.2
99	2.05	0.097	0.26	1.7
105	3.60	0.099	0.34	2.2
110	4.54	0.090	0.39	2.5
130	8.60	0.031	0.63	4.5

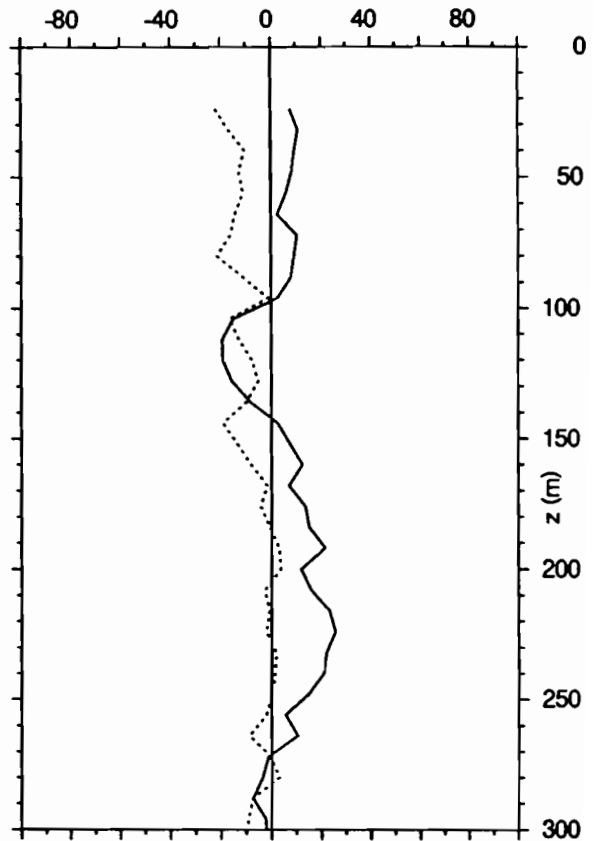
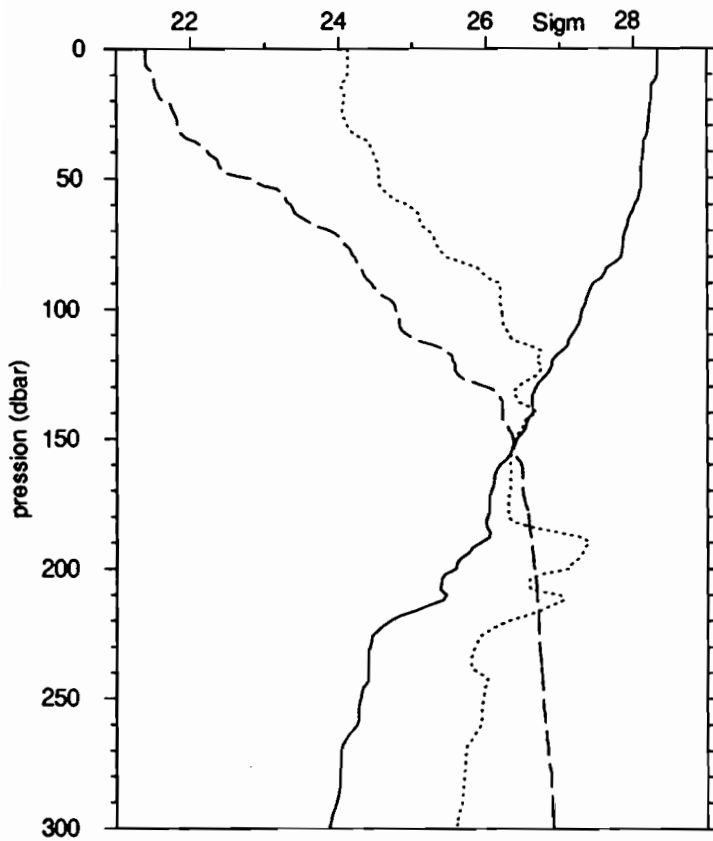
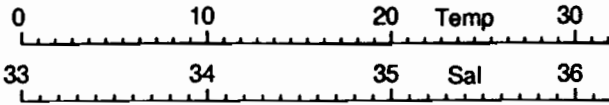
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.43	34.28	0.080	0.058	42.12
21	28.95	34.14	0.065	0.038	37.25
40	28.55	34.30	0.094	0.062	39.90
60	28.27	34.29	0.120	0.101	45.60
70	27.82	34.47	0.180	0.180	50.05
80	27.41	34.64	0.209	0.227	52.08
86	27.21	34.47	0.215	0.215	49.95
90	26.45	34.78	0.158	0.240	60.26
94	25.83	34.80	0.381	0.391	50.61
99	25.45	34.93	0.284	0.417	59.42
105	25.16	34.97	0.284	0.397	58.26
110	24.95	34.40	0.277	0.403	59.27
130	22.68	35.14	0.065	0.137	67.77

# EQUALIS -station 104

19/11/92, 22h 6 TU

1°30 S 156°15 E

20/11/92, 8h 6 locale

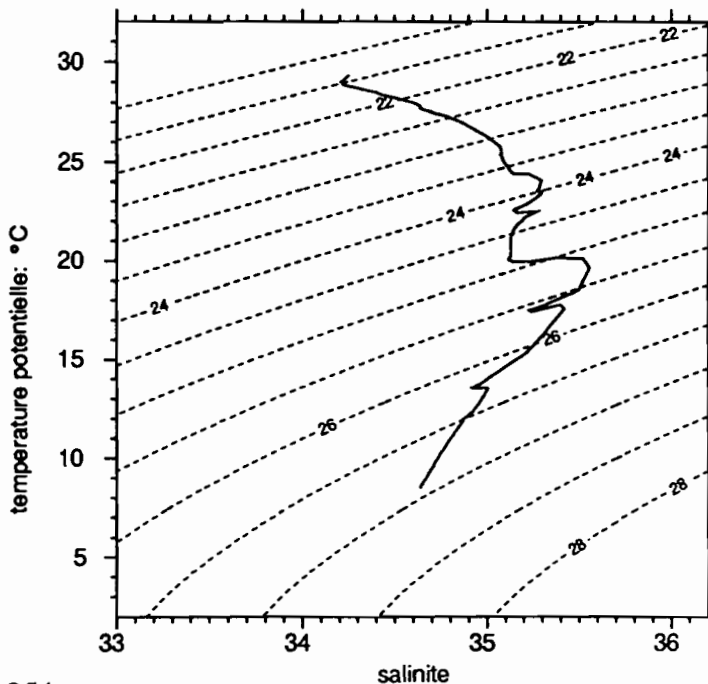


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.321	34.249
fin	502.0	8.564	34.637

	Z	U	V
debut	24.0	7.8	-22.1
fin	408.0	6.9	3.4



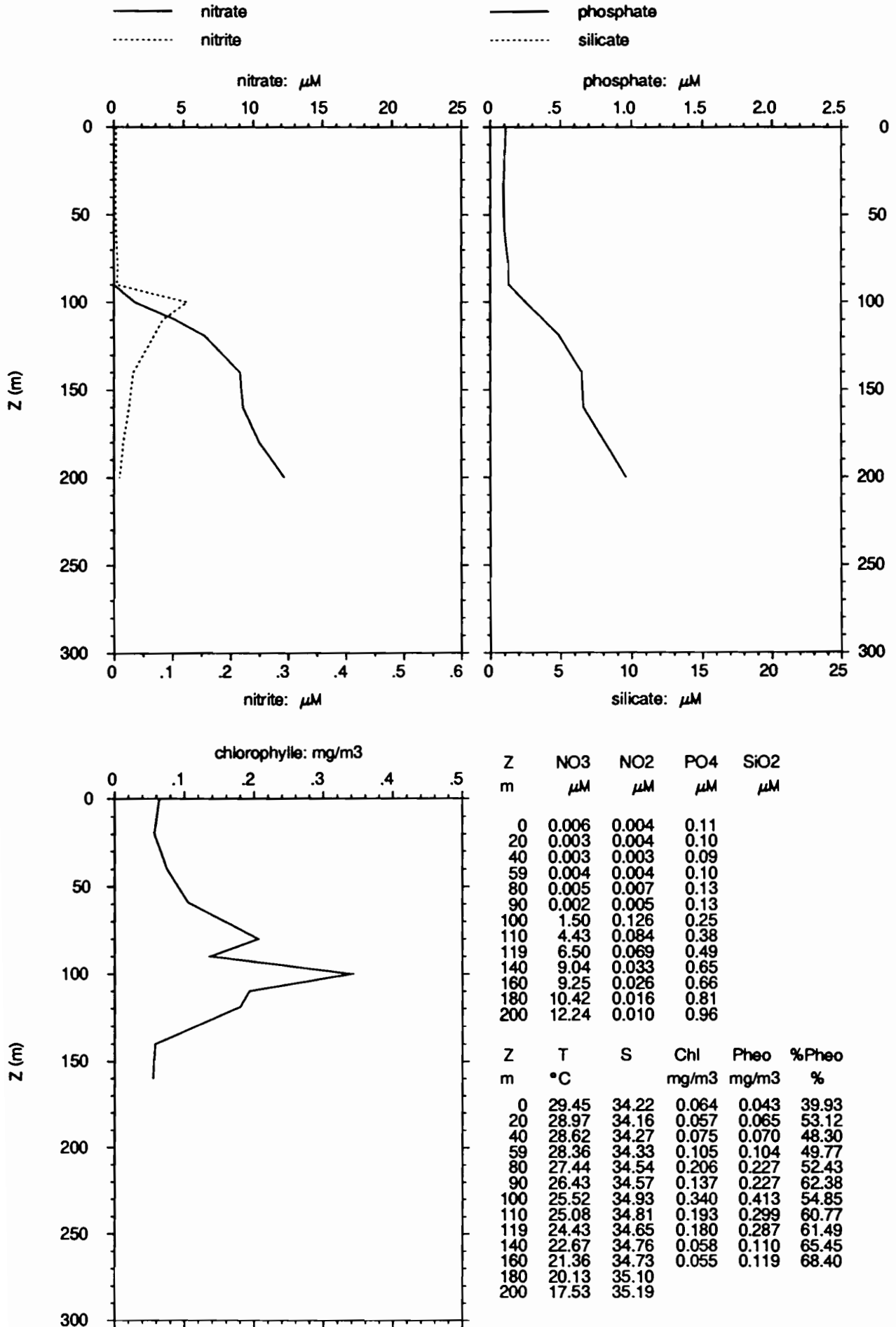
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.299	34.246		
20.0	28.943	34.228		
30.0	28.801	34.247	10.1	-18.2
40.0	28.523	34.384	9.5	-10.4
50.0	28.420	34.416	7.8	-12.3
75.0	27.428	34.727	10.0	-18.1
100.0	25.211	35.084	-6.2	-8.9
125.0	23.290	35.277	-17.0	-6.1
150.0	21.640	35.147	6.3	-14.9
200.0	18.337	35.443	11.8	3.7
250.0	13.167	34.984	12.5	-0.1
300.0	11.468	34.836	-2.0	-9.4
400.0	9.991	34.729	0.5	1.1
500.0	8.572	34.638		

# EQUALIS - station104

1°30 S 156°15 E

19/11/92, 22h 6 TU

20/11/92, 8h 6 locale



# EQUALIS -station 105

20/11/92, 0h59 TU

1°30 S 156°15 E

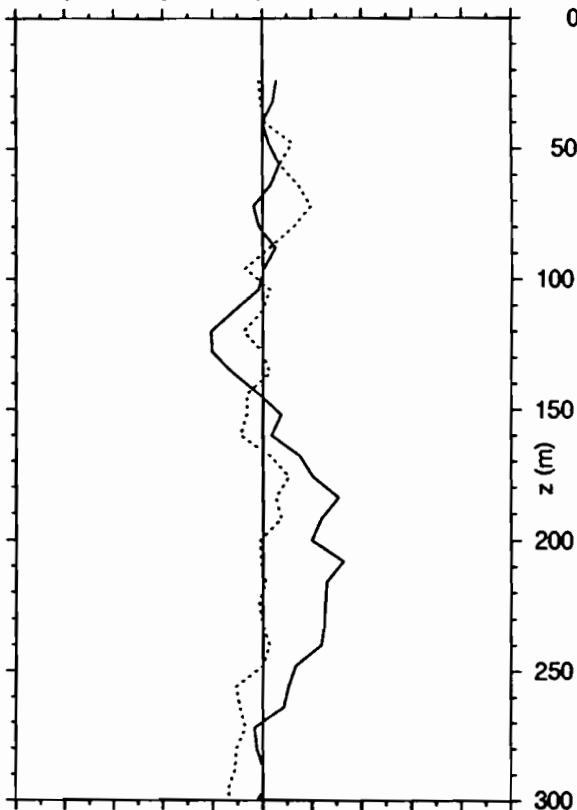
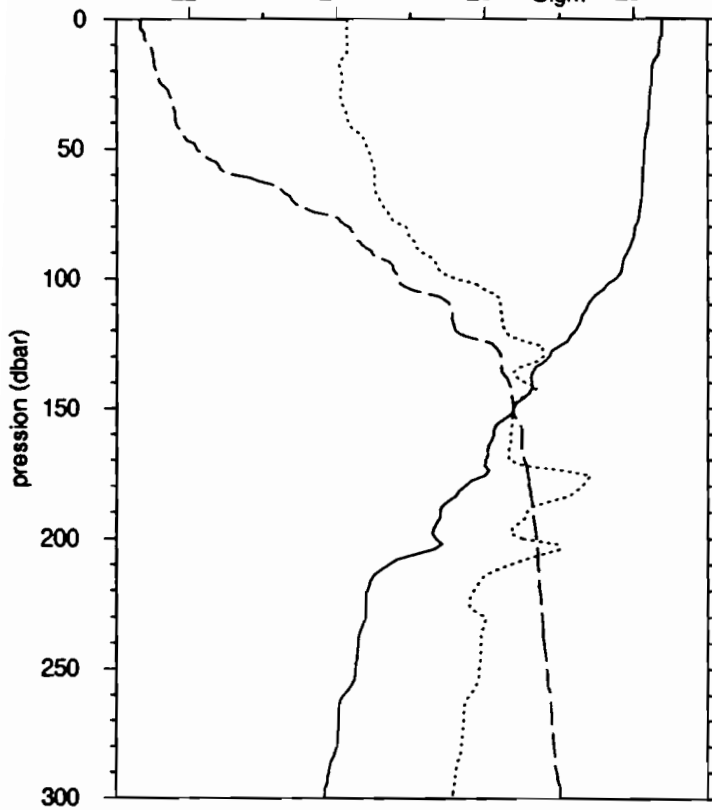
20/11/92, 10h59 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

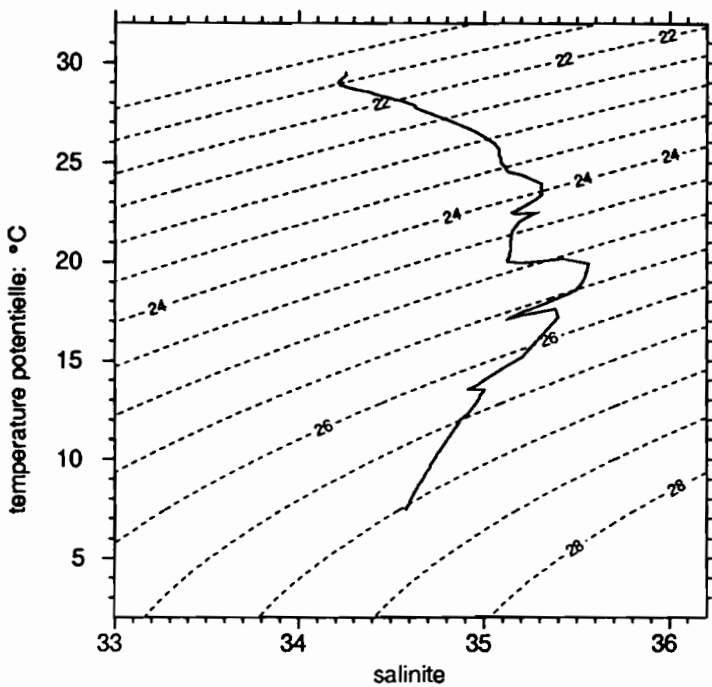


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.526	34.252
fin	506.0	7.478	34.581

	Z	U	V
debut	24.0	5.7	-1.4
fin	408.0	5.5	-9.5



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.381	34.256		
20.0	28.987	34.221		
30.0	28.880	34.217	4.7	-0.9
40.0	28.777	34.261	0.1	0.9
50.0	28.574	34.366	3.6	10.7
75.0	28.289	34.480	-2.8	17.0
100.0	27.025	34.842	-0.5	-2.1
125.0	24.198	35.258	-20.4	-3.0
150.0	21.523	35.150	5.2	-6.5
200.0	17.333	35.202	19.9	-1.0
250.0	12.995	34.967	12.6	-2.6
300.0	11.331	34.824	-2.0	-13.2
400.0	9.693	34.714	-9.0	-14.3
500.0	7.666	34.589		

# EQUALIS - station105

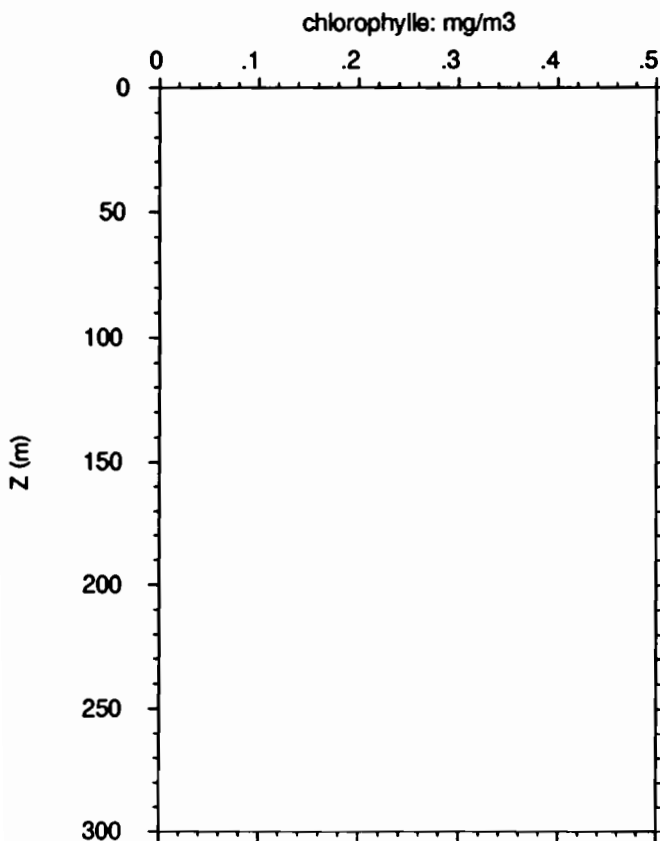
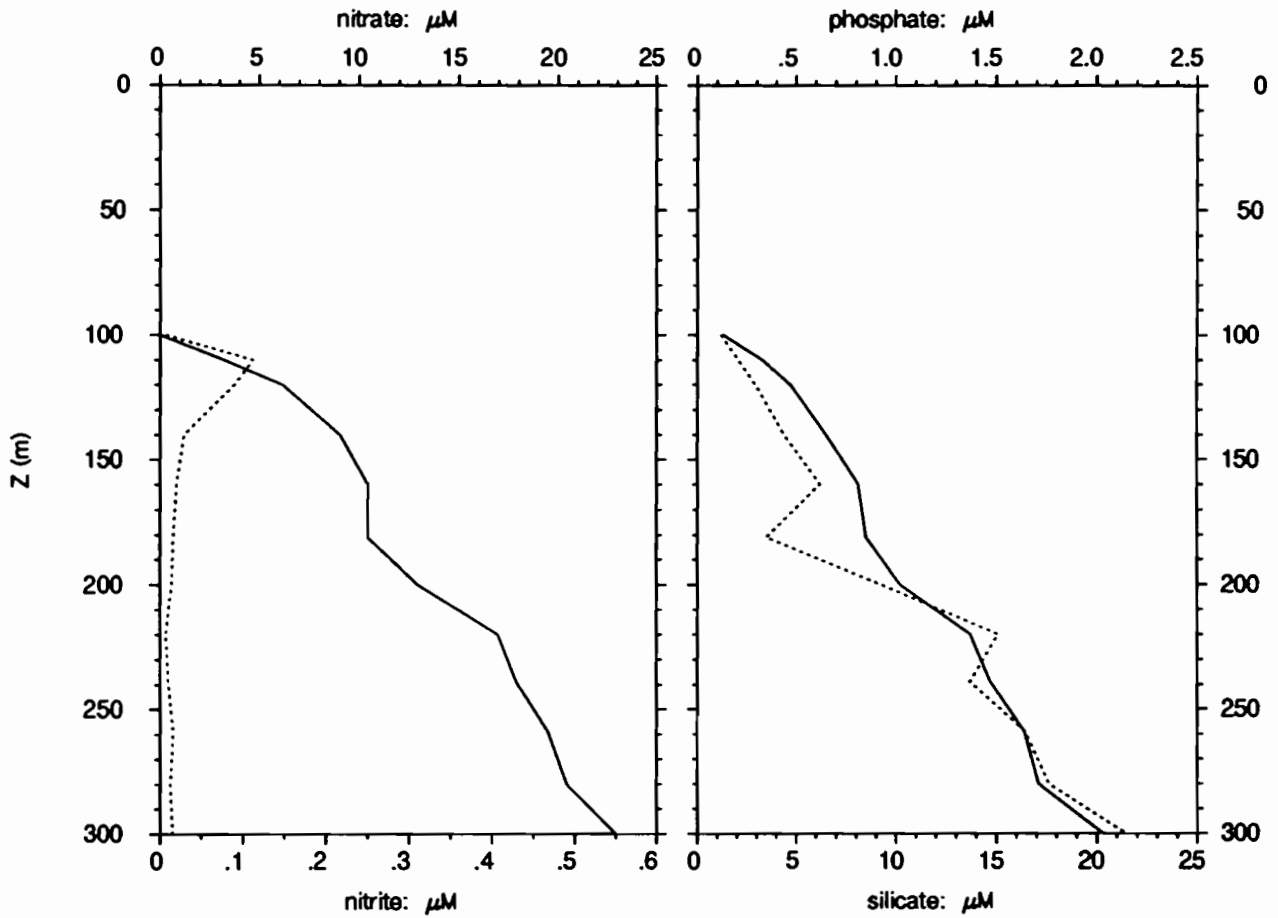
1°30 S 156°15 E

20/11/92, 0h59 TU

20/11/92, 10h59 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
100	0.006	0.007	0.13	1.2
110	3.22	0.112	0.33	2.1
120	6.16	0.090	0.47	2.9
140	9.05	0.029	0.65	4.4
160	10.43	0.020	0.81	6.2
181	10.43	0.016	0.85	3.5
200	12.95	0.014	1.02	9.2
220	16.95	0.007	1.37	15.1
239	17.89	0.010	1.47	13.7
259	19.48	0.016	1.64	16.4
280	20.42	0.013	1.71	17.6
300	22.91	0.015	2.03	21.4

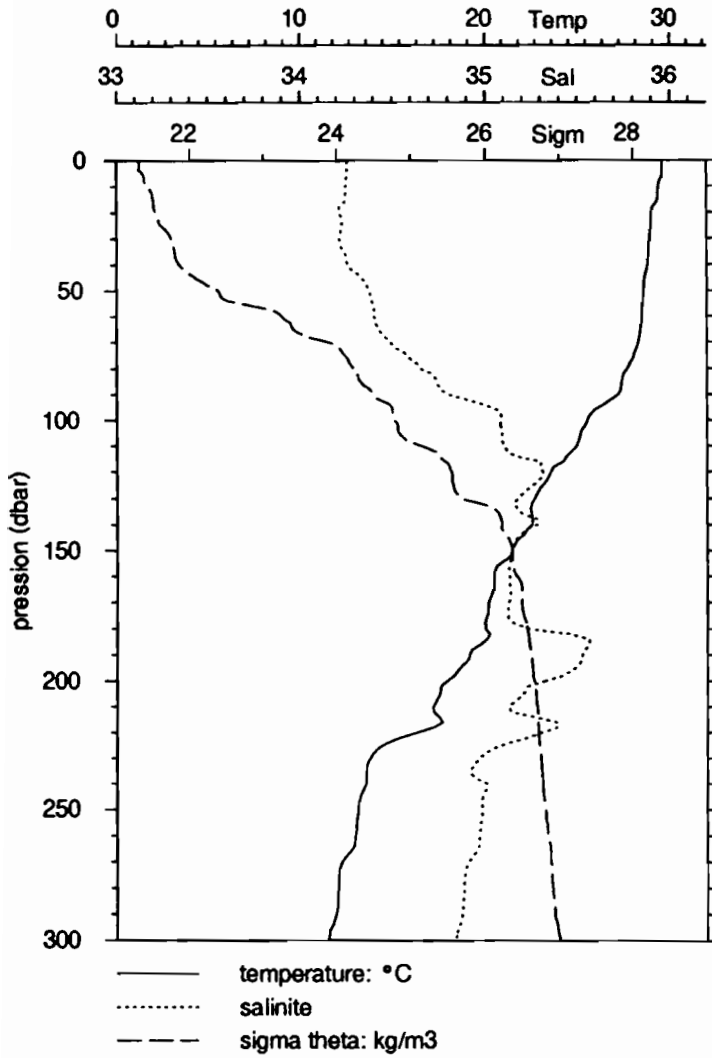
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
100	26.15	34.47			
110	25.29	34.63			
120	24.51	34.25			
140	22.44	34.39			
160	20.40	34.54			
181	19.08	35.15			
200	17.15	33.88			
220	13.70	34.66			
239	13.14	34.71			
259	12.21	34.74			
280	11.93	34.45			
300	11.33	34.81			

# EQUALIS -station 107

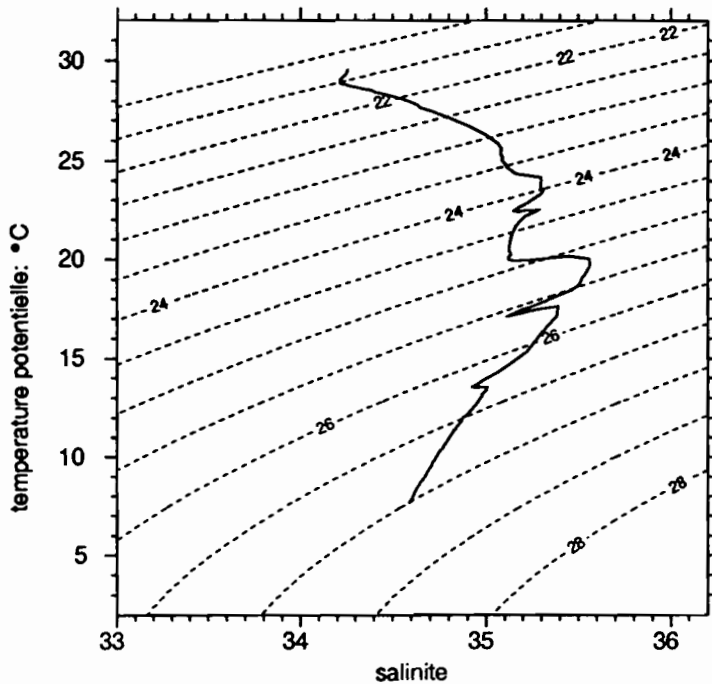
20/11/92, 1h47 TU

1°30 S 156°15 E

20/11/92, 11h47 locale



	P	T	S
debut	6.0	29.586	34.256
fin	502.0	7.698	34.590



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.386	34.251		
20.0	29.000	34.216		
30.0	28.895	34.215		
40.0	28.783	34.257		
50.0	28.567	34.376		
75.0	28.028	34.578		
100.0	25.521	35.081		
125.0	23.100	35.257		
150.0	21.440	35.151		
200.0	17.933	35.320		
250.0	13.156	34.981		
300.0	11.545	34.842		
400.0	9.803	34.717		
500.0	7.707	34.591		

# EQUALIS - station107

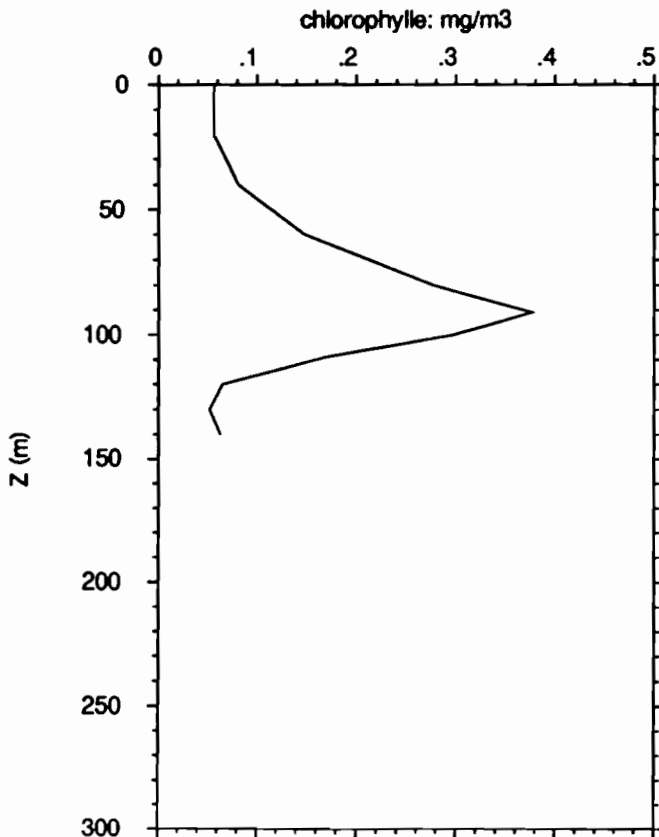
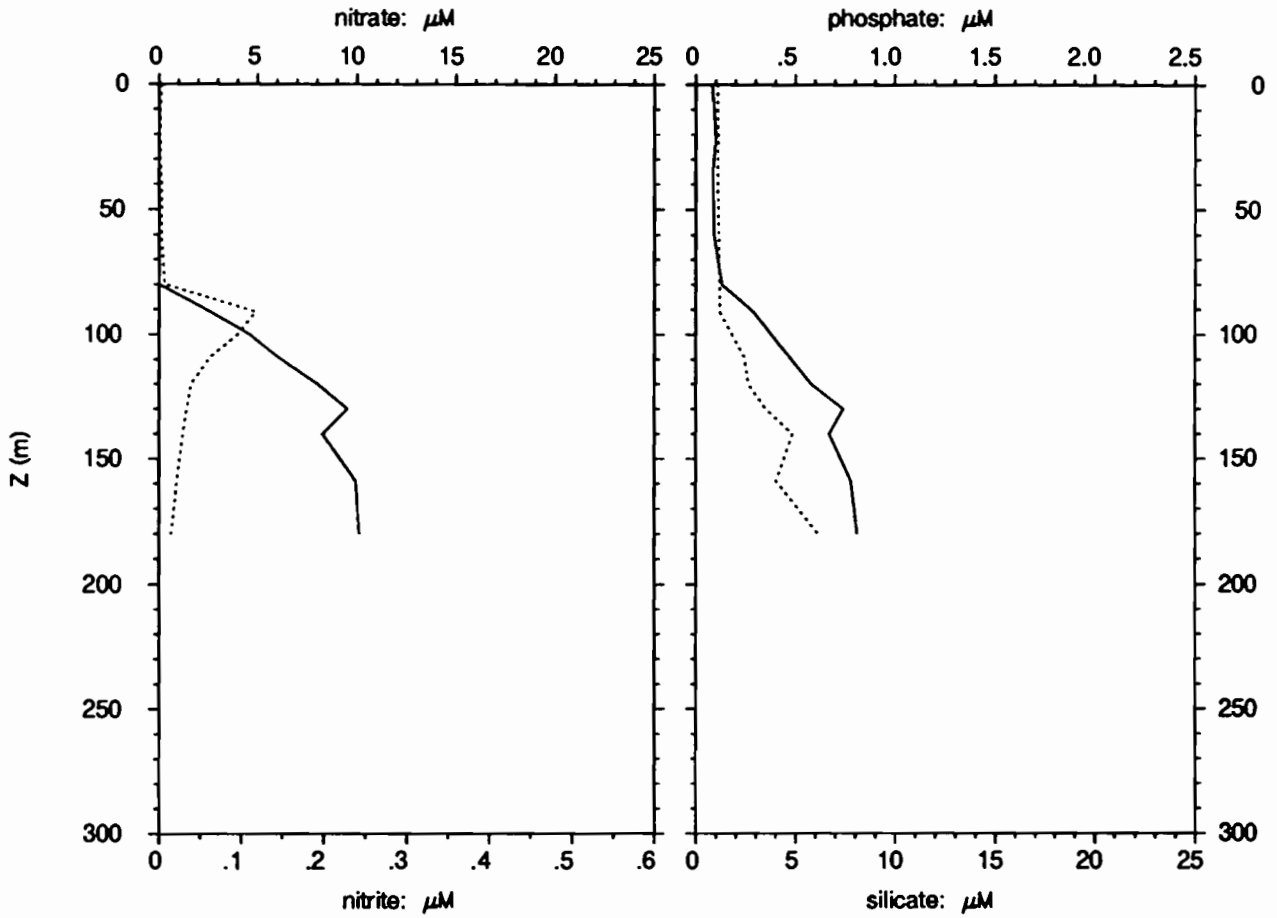
1°30 S 156°15 E

20/11/92, 1h47 TU

20/11/92, 11h47 locale

— nitrate  
- - - nitrite

— phosphate  
- - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.003	0.08	1.1
20	0.006	0.001	0.10	1.1
40	0.005	0.003	0.08	1.1
60	0.001	0.003	0.09	1.1
80	0.006	0.007	0.13	1.2
91	2.62	0.118	0.29	1.2
100	4.60	0.096	0.38	1.8
109	6.03	0.063	0.47	2.4
120	8.02	0.039	0.58	2.6
130	9.52	0.034	0.74	3.5
140	8.28	0.029	0.67	4.8
159	9.95	0.022	0.78	4.0
180	10.12	0.015	0.81	6.1

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.89	34.29	0.056	0.048	45.83
20	28.98	34.16	0.056	0.073	56.91
40	28.59	34.19	0.081	0.062	43.25
60	28.14	34.27	0.148	0.131	47.00
80	26.88	34.36	0.277	0.264	48.79
91	25.38	35.06	0.377	0.430	53.28
100	25.04	34.78	0.297	0.432	59.23
109	24.28	34.32	0.169	0.277	62.11
120	23.18	34.72	0.065	0.134	67.32
130	22.52	35.12	0.052	0.125	70.51
140	22.37	34.77	0.063	0.119	65.53
159	20.44	35.01			
180	20.23	35.44			

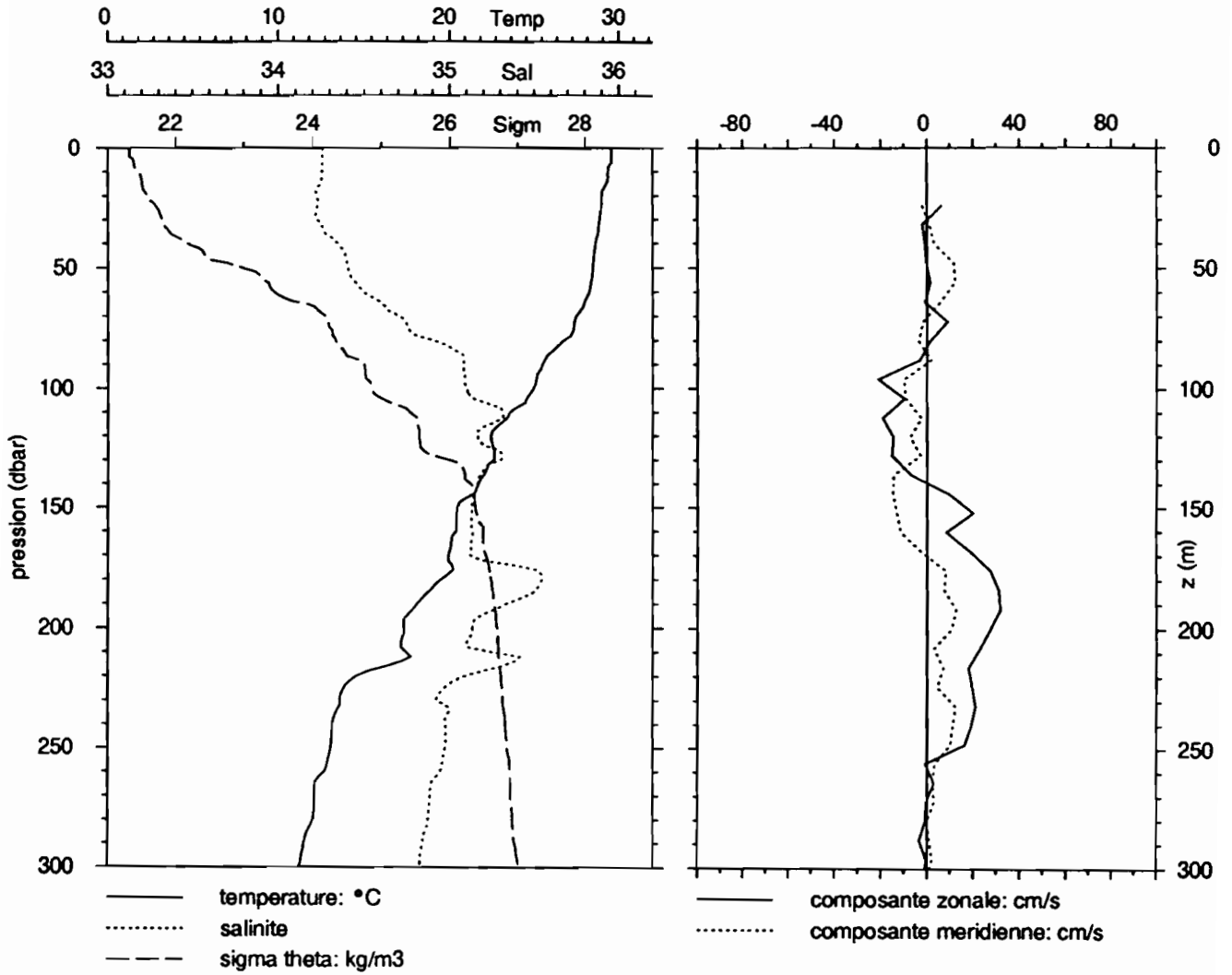


# EQUALIS -station 108

20/11/92, 4h 3 TU

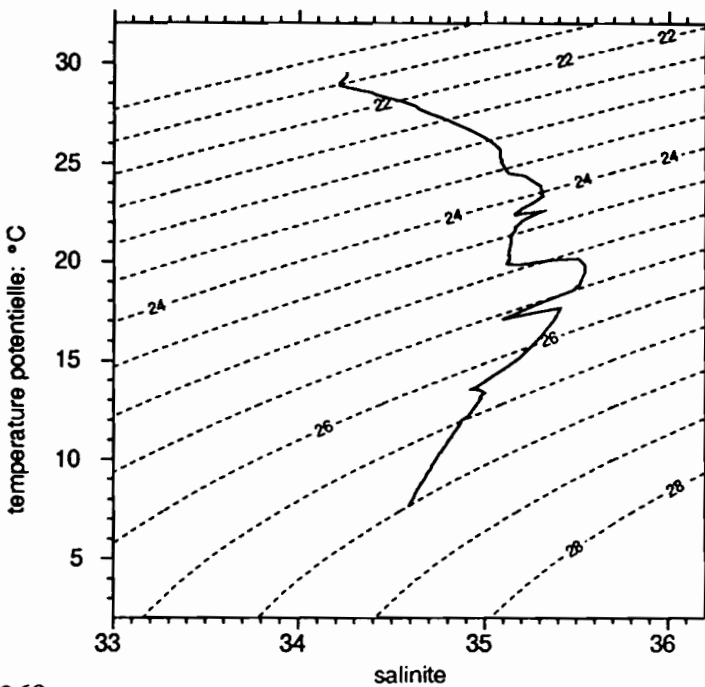
1°30 S 156°15 E

20/11/92, 14h 3 locale



	P	T	S
debut	6.0	29.562	34.255
fin	498.0	7.707	34.589

	Z	U	V
debut	24.0	6.5	-2.0
fin	408.0	-7.2	2.4



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.369	34.254		
20.0	28.993	34.223		
30.0	28.859	34.226	0.2	0.4
40.0	28.619	34.345	-0.9	3.1
50.0	28.461	34.405	0.3	11.9
75.0	27.332	34.758	6.2	-2.3
100.0	24.944	35.098	-15.3	-9.5
125.0	22.561	35.246	-14.9	-4.4
150.0	20.456	35.128	17.4	-13.5
200.0	17.306	35.132	27.5	10.7
250.0	13.040	34.972	12.2	8.5
300.0	11.207	34.820	-0.8	1.3
400.0	9.453	34.698	-5.6	-9.6

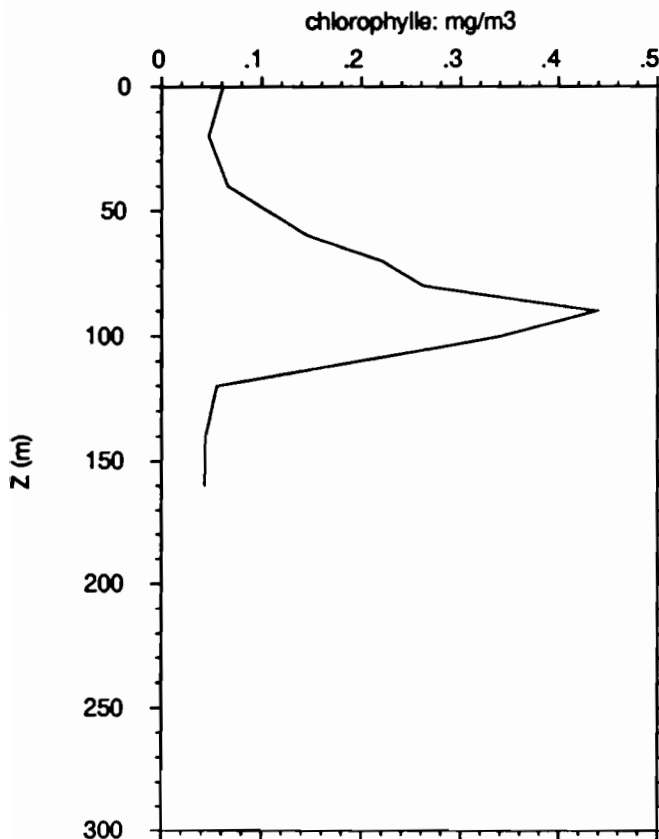
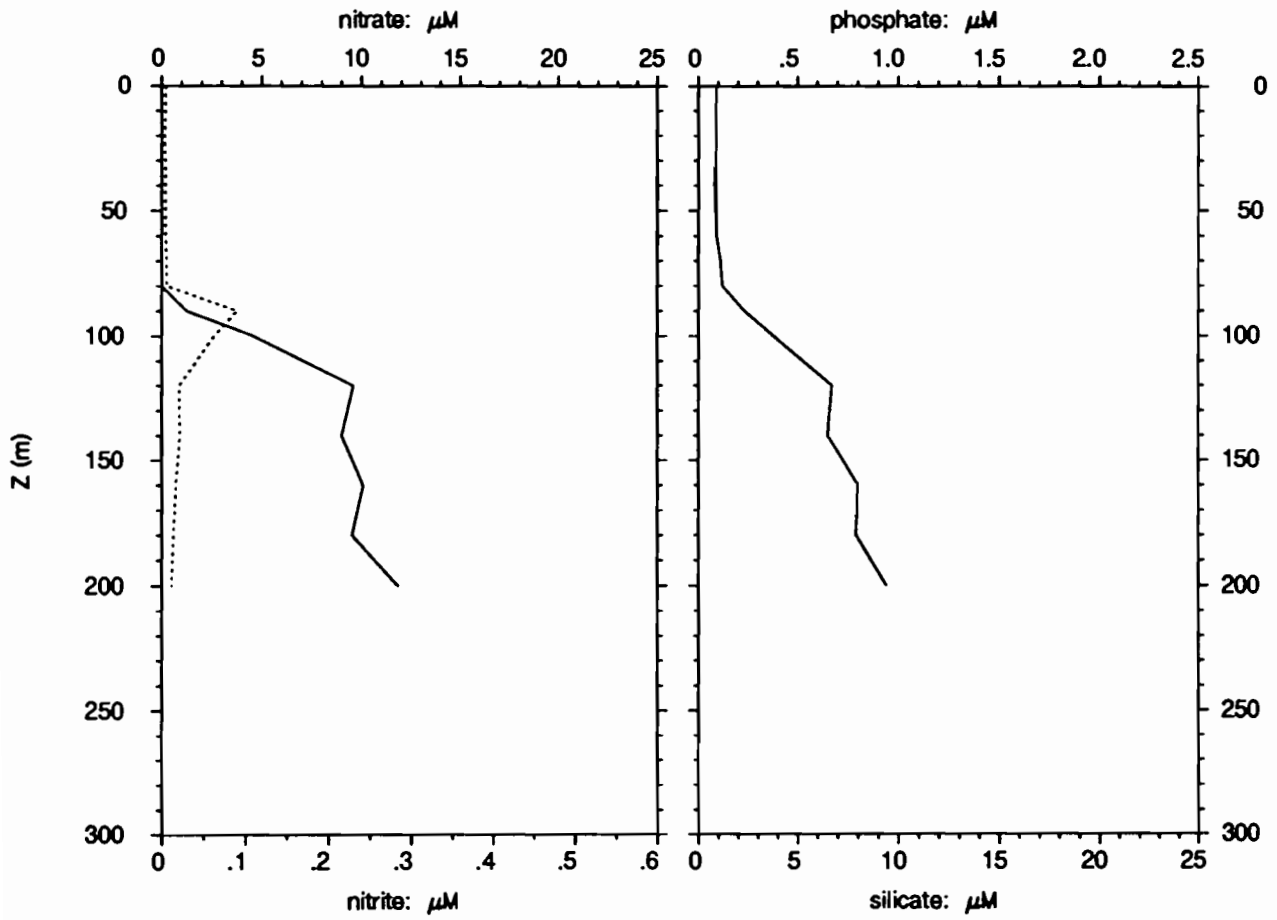
# EQUALIS - station108

1°30 S 156°15 E

20/11/92, 4h 3 TU

20/11/92, 14h 3 locale

— nitrate                      — phosphate  
 ..... nitrite                      ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.005	0.09	
20	0.000	0.004	0.09	
40	0.000	0.005	0.08	
60	0.000	0.005	0.09	
70	0.000	0.006	0.11	
80	0.001	0.006	0.12	
90	1.233	0.090	0.23	
100	4.62	0.062	0.38	
120	9.59	0.021	0.67	
140	9.00	0.022	0.65	
160	10.08	0.017	0.80	
180	9.52	0.014	0.79	
200	11.82	0.012	0.94	

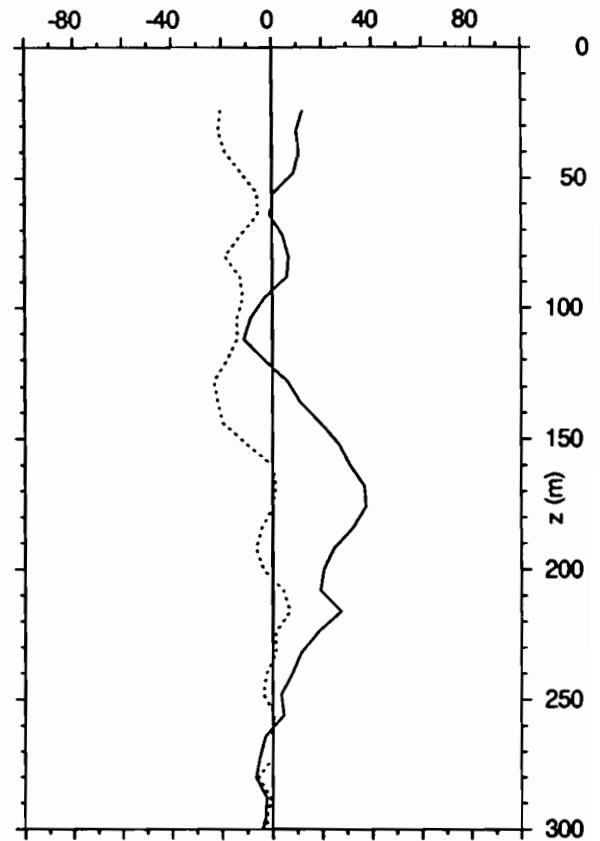
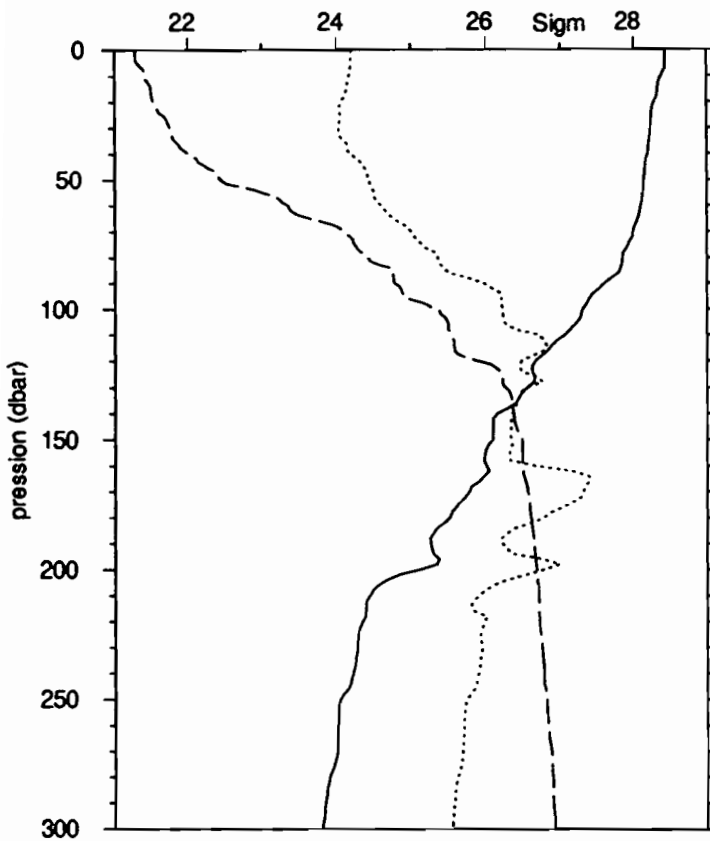
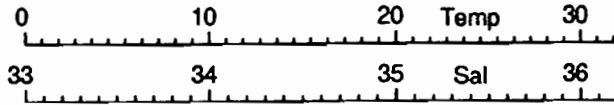
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0			0.061	0.041	40.33
20	28.99	34.22	0.047	0.045	48.91
40	28.62	34.34	0.066	0.079	54.22
60	28.26	34.49	0.146	0.114	43.72
70	27.48	34.71	0.220	0.208	48.55
80	26.73	34.91	0.262	0.268	50.63
90	25.47	35.08	0.438	0.512	53.93
100	24.94	35.10	0.340	0.410	54.68
120	22.42	35.16	0.055	0.115	67.66
140	21.67	35.16	0.044	0.124	73.72
160	20.36	35.13	0.043	0.107	71.46
180	19.47	35.54			
200	17.31	35.13			

# EQUALIS -station 109

20/11/92, 7h 0 TU

1°30 S 156°15 E

20/11/92, 17h 0 locale

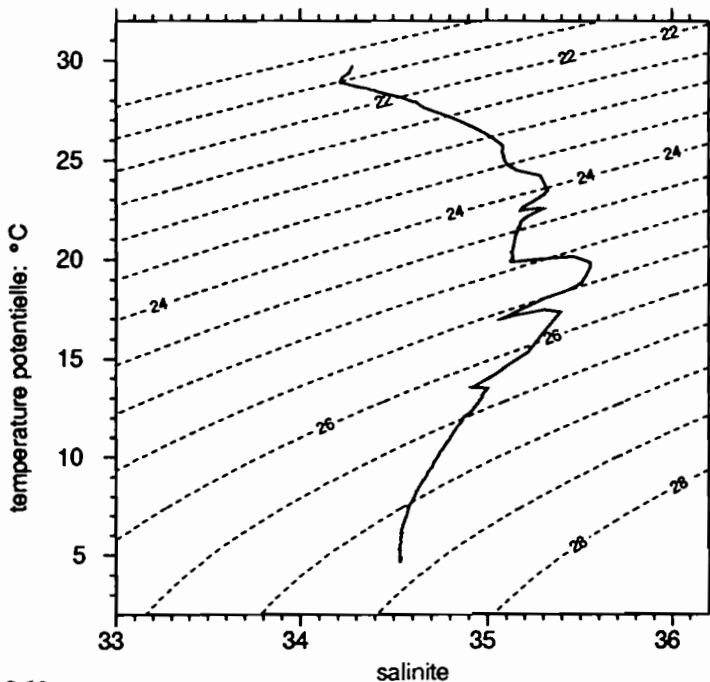


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.730	34.279
fin	998.0	4.723	34.535

	Z	U	V
debut	24.0	12.4	-20.4
fin	416.0	2.0	-4.7



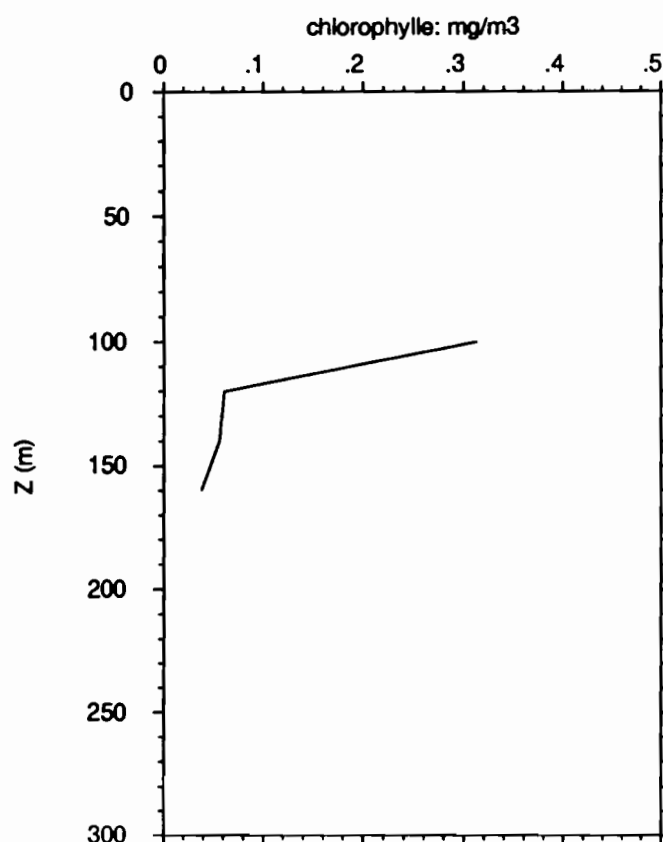
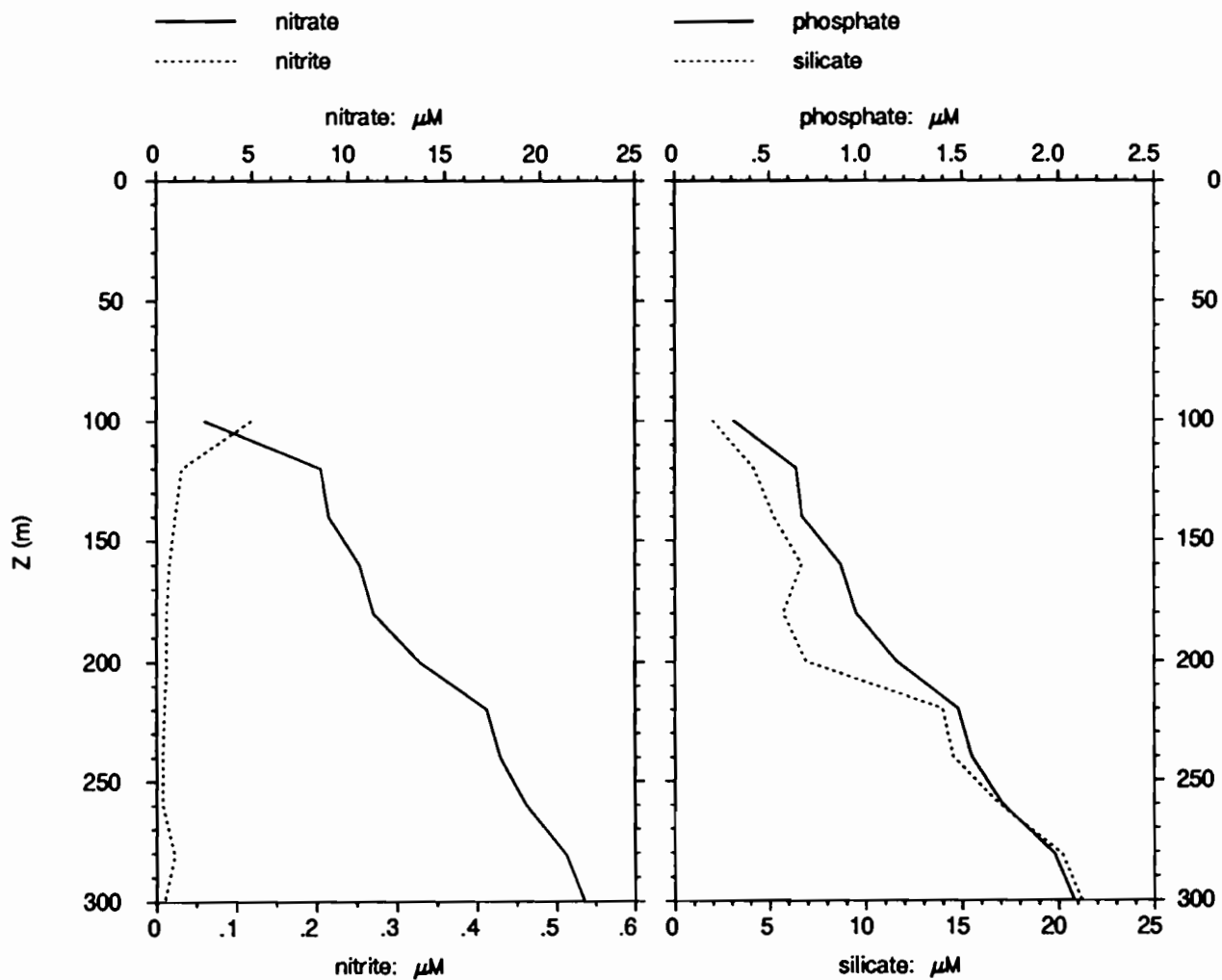
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.529	34.269		
20.0	29.127	34.224		
30.0	28.914	34.213	10.5	-21.1
40.0	28.768	34.269	10.8	-18.6
50.0	28.540	34.371	6.8	-10.6
75.0	27.678	34.659	5.2	-15.0
100.0	25.203	35.090	-5.8	-12.9
125.0	22.546	35.232	2.7	-21.2
150.0	20.359	35.132	24.8	-12.7
200.0	16.429	35.308	20.6	-3.6
250.0	12.189	34.897	3.7	-2.6
300.0	11.243	34.818	-4.0	-2.4
400.0	9.803	34.717	9.8	-3.7
500.0	8.492	34.633		
600.0	6.746	34.557		
700.0	6.217	34.543		
800.0	5.726	34.539		
900.0	5.350	34.531		

# EQUALIS - station109

1° 30 S 156° 15 E

20/11/92, 7h 0 TU

20/11/92, 17h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
100	2.52	0.119	0.31	2.0
120	8.58	0.032	0.64	4.2
140	8.99	0.024	0.67	5.2
160	10.57	0.016	0.87	6.7
180	11.28	0.013	0.95	5.7
200	13.68	0.013	1.16	6.9
220	17.17	0.010	1.48	14.0
240	17.87	0.008	1.55	14.6
260	19.23	0.008	1.71	16.9
281	21.36	0.023	1.98	20.2
300	22.30	0.010	2.08	21.2
1000	27.61	0.010	2.96	56.6

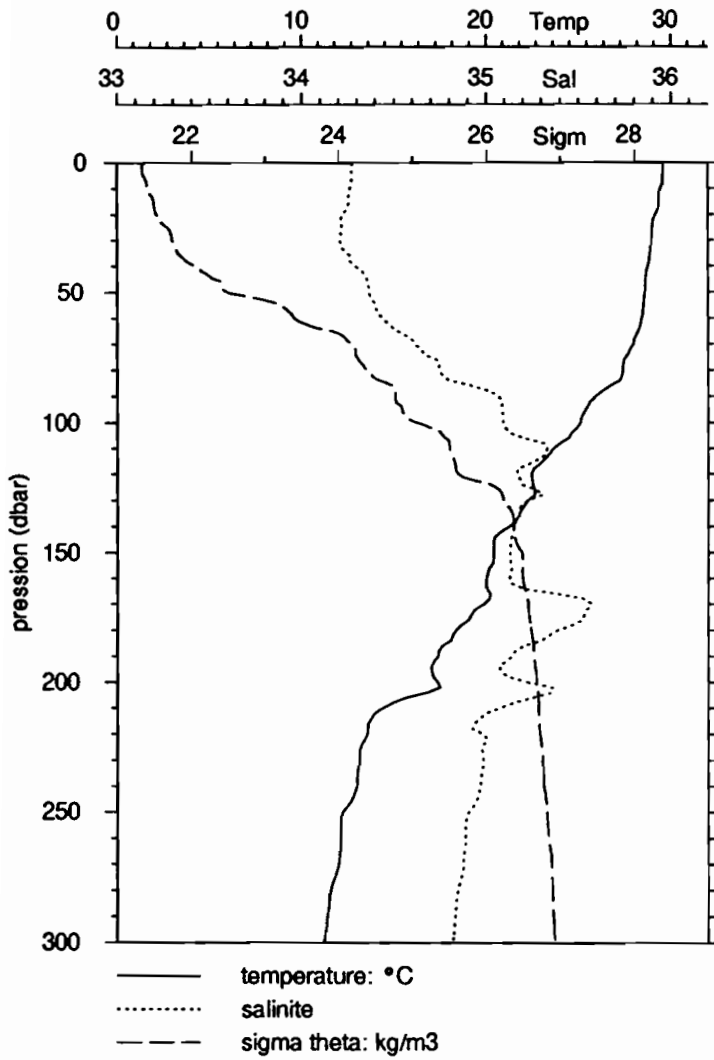
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
100	25.39	34.99	0.313	0.409	56.62
120	22.78	34.83	0.061	0.125	67.25
140	21.32	34.65	0.056	0.126	69.45
160	19.95	34.74	0.038	0.092	70.89
180	18.02	34.15			
200	15.09	34.28			
220	13.20	34.79			
240	12.64	34.63			
260	12.08	34.83			
281	11.58	34.56			
300	11.22	34.80			
1000	4.72	34.54			

# EQUALIS -station 110

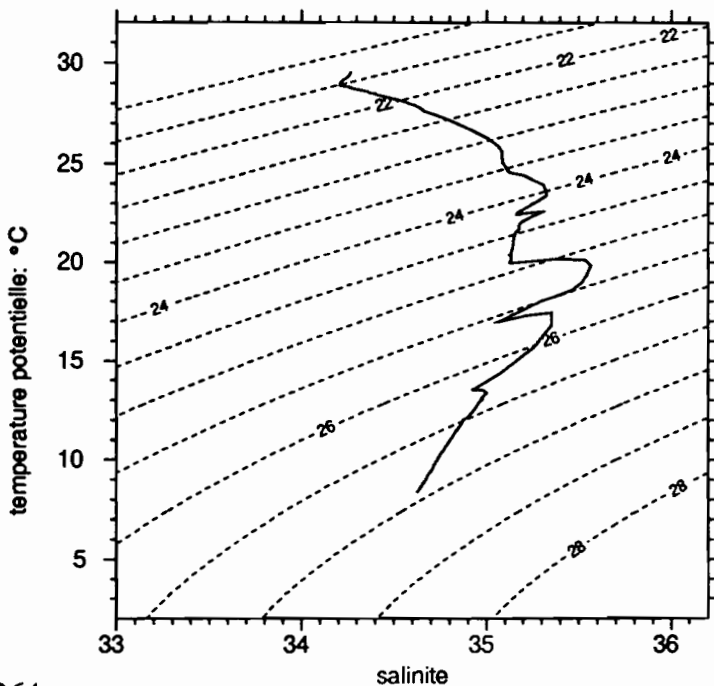
1°30 S 156°15 E

20/11/92, 8h 2 TU

20/11/92, 18h 2 locale



	P	T	S
debut	6.0	29.539	34.271
fin	498.0	8.419	34.627



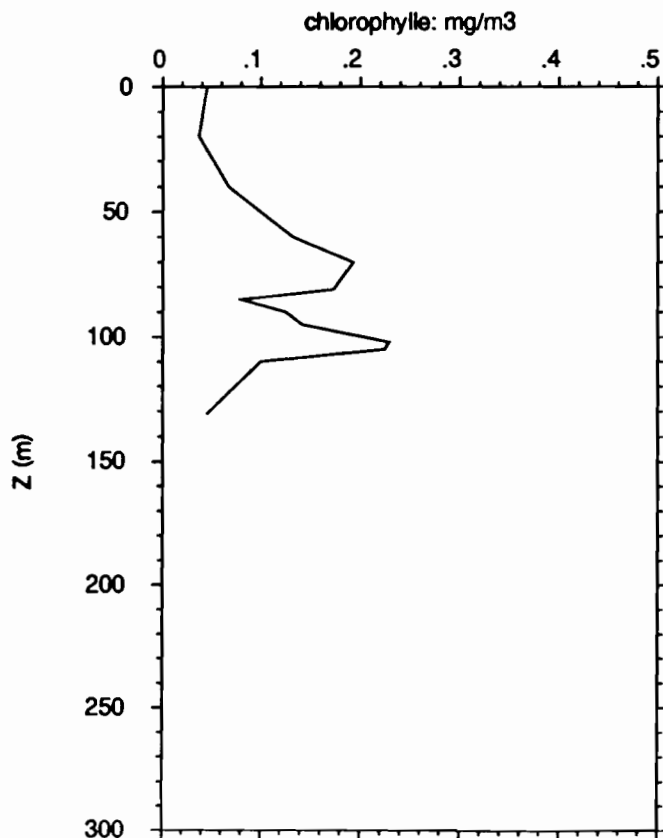
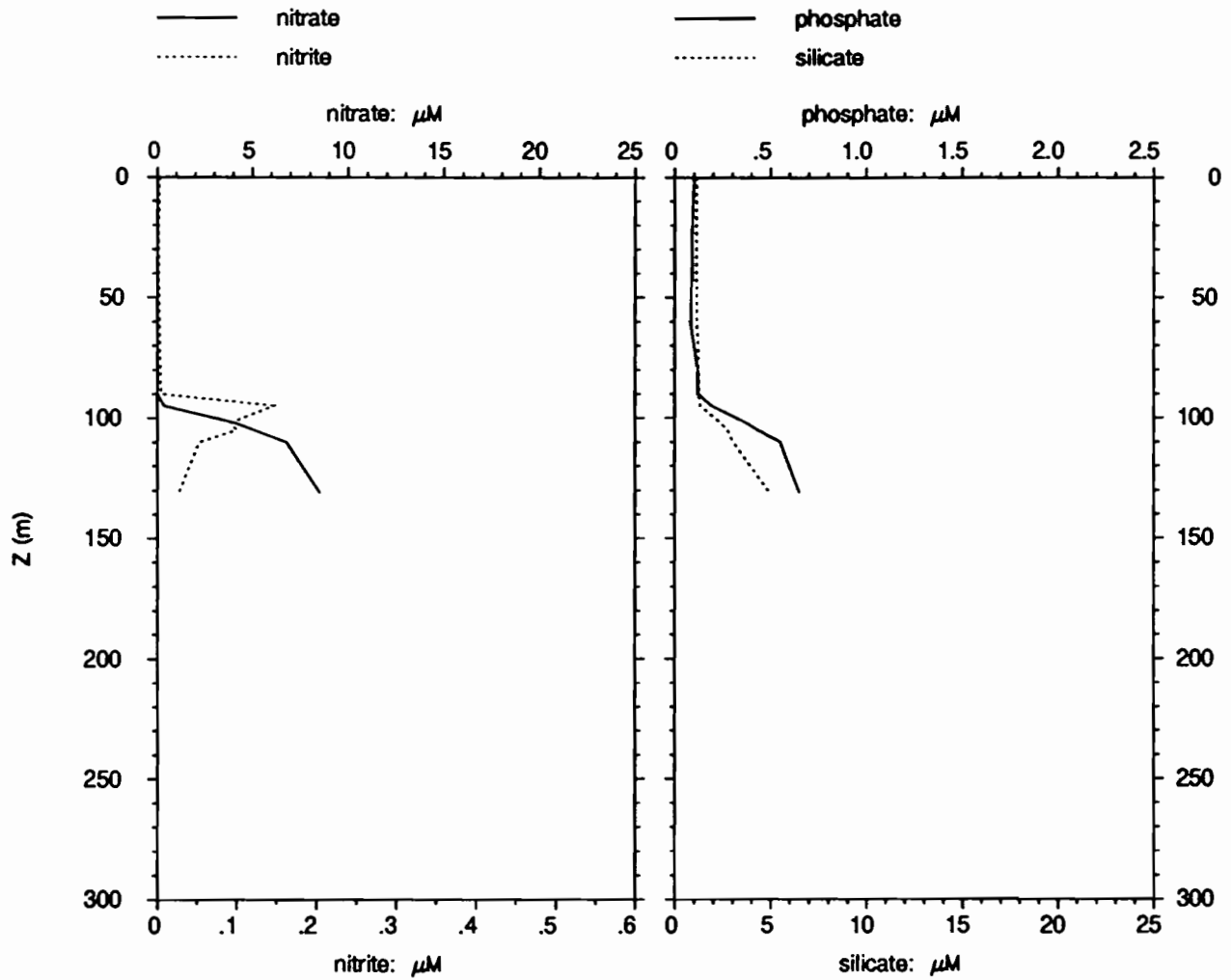
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.409	34.261		
20.0	29.133	34.220		
30.0	28.913	34.209		
40.0	28.733	34.285		
50.0	28.569	34.363		
75.0	27.532	34.696		
100.0	25.079	35.089		
125.0	22.547	35.228		
150.0	20.386	35.127		
200.0	17.318	35.219		
250.0	12.202	34.902		
300.0	11.185	34.816		
400.0	9.775	34.714		

# EQUALIS - station110

1°30 S 156°15 E

20/11/92, 8h 2 TU

20/11/92, 18h 2 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.005	0.003	0.10	1.1
20	0.008	0.002	0.09	1.1
40	0.004	0.002	0.09	1.1
60	0.003	0.003	0.08	1.1
70	0.002	0.003	0.10	1.2
81	0.004	0.004	0.12	1.2
85	0.004	0.004	0.12	1.2
90	0.005	0.005	0.12	1.2
95	0.365	0.147	0.19	1.3
102	4.08	0.093	0.37	2.4
105	5.07	0.100	0.43	2.7
110	6.78	0.053	0.55	3.0
131	8.52	0.027	0.65	4.9

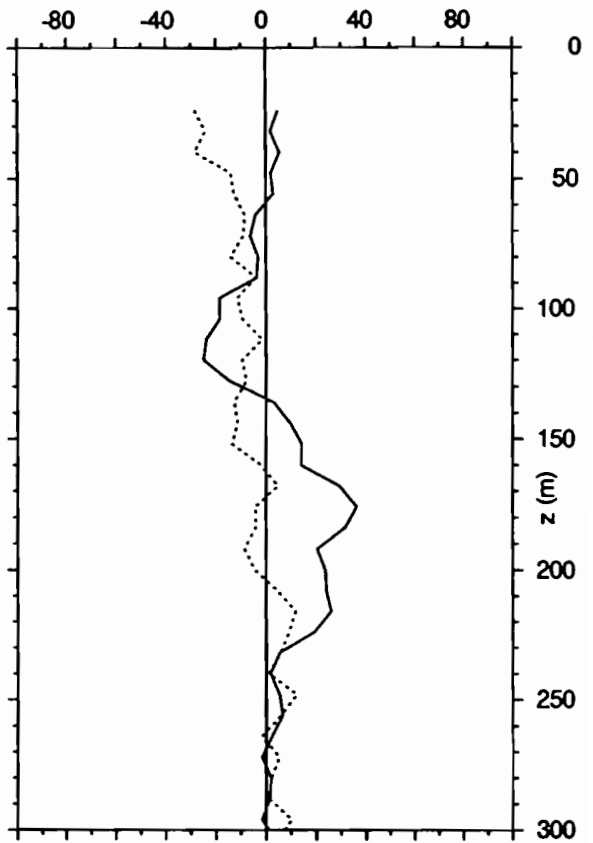
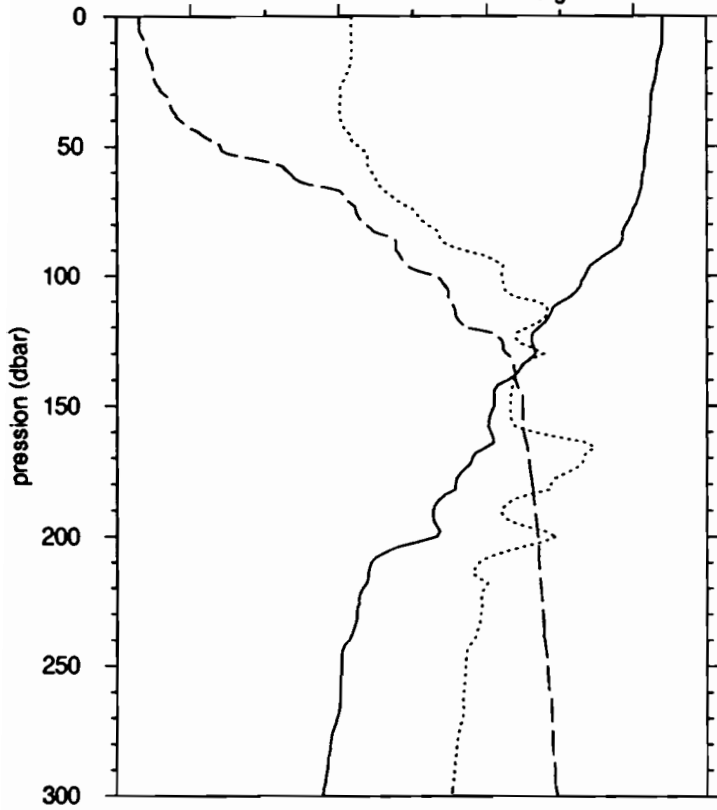
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.65	34.30	0.045	0.055	54.89
20	29.18	34.19	0.037	0.052	58.60
40	28.76	34.20	0.067	0.076	53.24
60	28.43	34.28	0.132	0.120	47.73
70	27.97	34.48	0.193	0.223	53.60
81	27.43	34.65	0.173	0.225	56.57
85	27.35	34.51	0.080	0.083	50.87
90	26.54	34.54	0.125	0.235	65.17
95	25.65	34.87	0.142	0.159	52.81
102	25.07	34.79	0.229	0.352	60.62
105	24.54	34.47	0.224	0.304	57.58
110	23.46	35.29	0.100	0.166	62.31
131	21.76	35.15	0.045	0.148	76.61

# EQUALIS -station 111

20/11/92, 10h 6 TU

1°30 S 156°15 E

20/11/92, 20h 6 locale

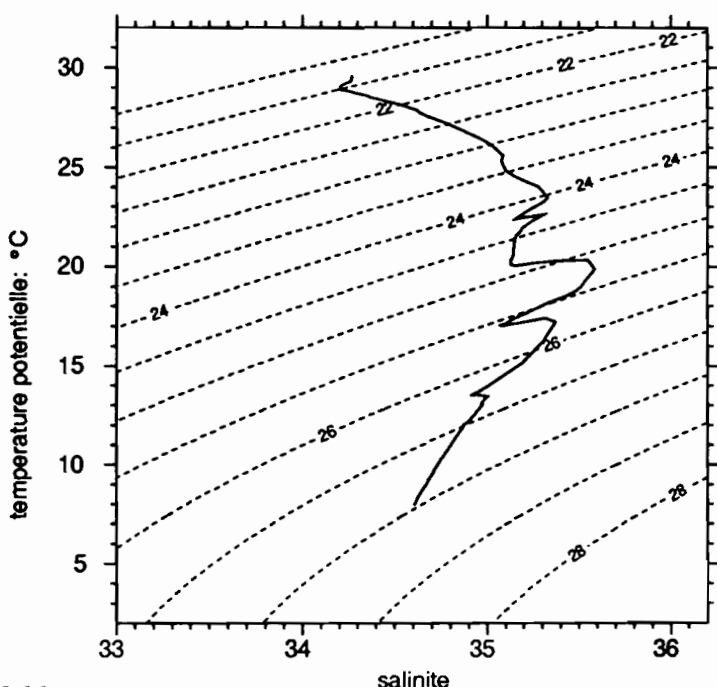


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.606	34.266
fin	502.0	8.004	34.607

	Z	U	V
debut	24.0	4.9	-28.3
fin	392.0	3.7	5.8



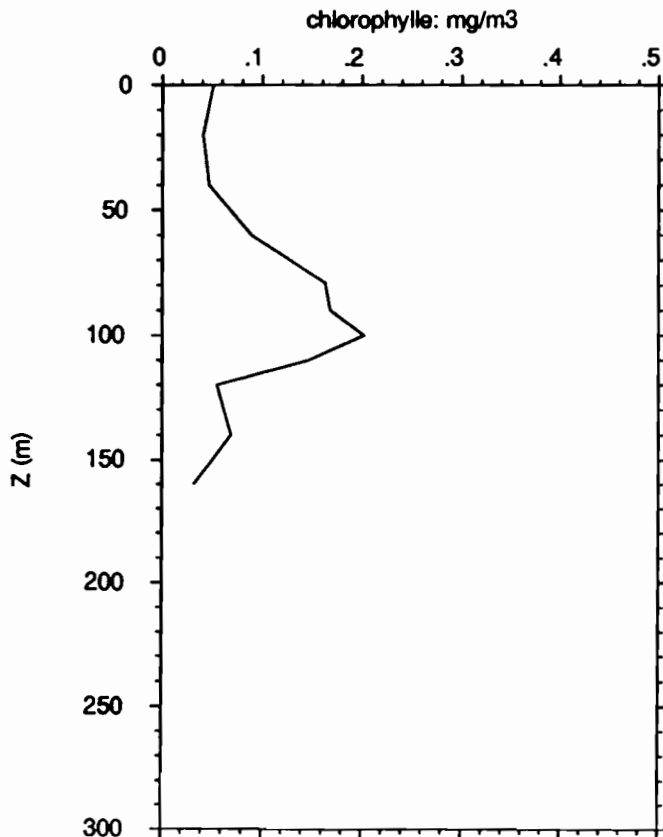
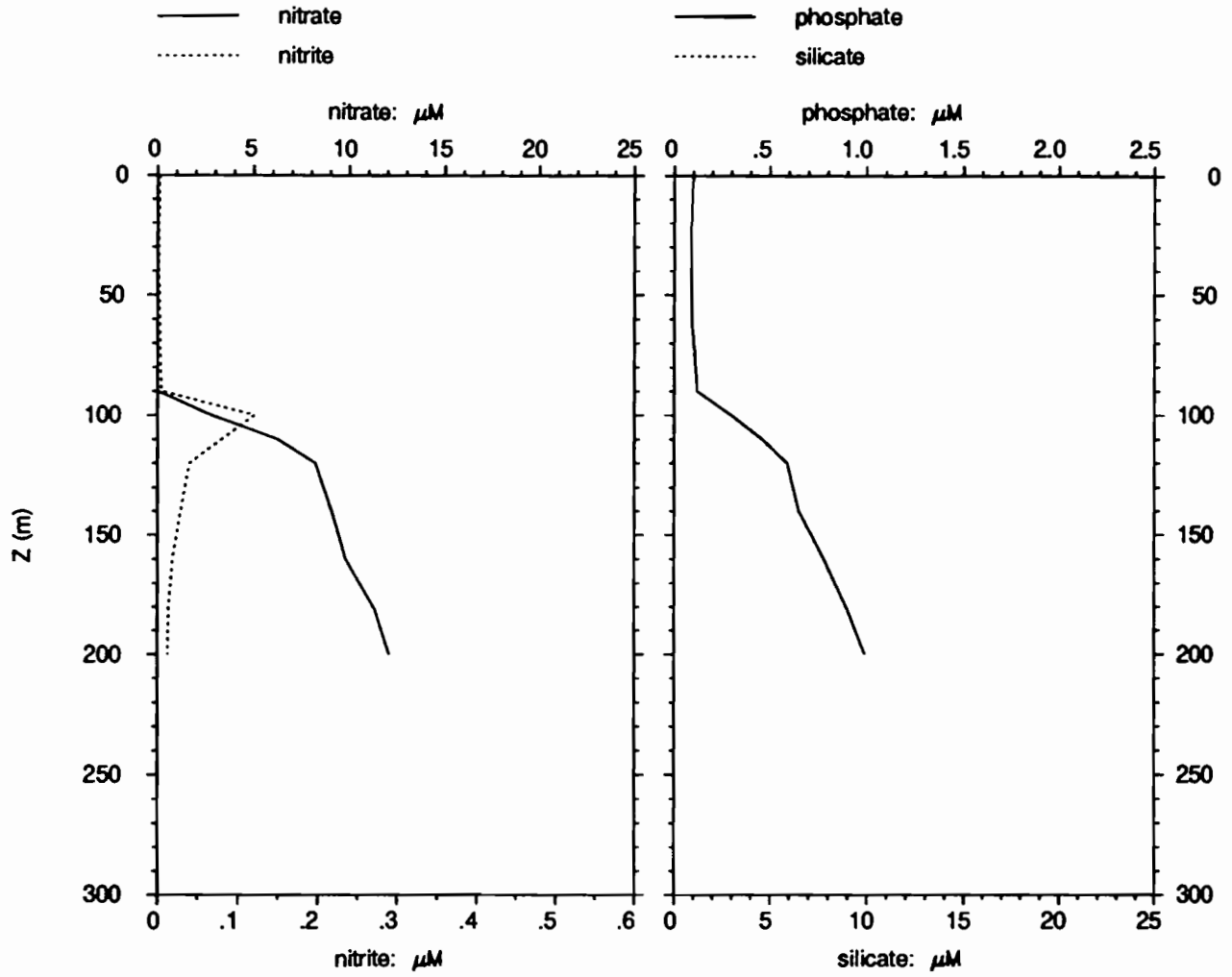
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.592	34.268		
20.0	29.292	34.257		
30.0	28.982	34.209	2.7	-25.2
40.0	28.889	34.209	5.5	-28.4
50.0	28.695	34.305	2.3	-13.8
75.0	27.944	34.606	-4.9	-10.9
100.0	25.342	35.081	-18.5	-10.3
125.0	22.445	35.167	-18.4	-8.3
150.0	20.382	35.127	13.2	-12.9
200.0	17.252	35.372	23.6	-4.4
250.0	12.086	34.881	5.7	10.6
300.0	11.087	34.806	1.2	7.5
400.0	9.719	34.712		
500.0	8.077	34.611		

# EQUALIS - station111

1°30 S 156°15 E

20/11/92, 10h 6 TU

20/11/92, 20h 6 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.003	0.10	
20	0.003	0.002	0.09	
40	0.004	0.002	0.09	
60	0.002	0.003	0.09	
79	0.001	0.004	0.11	
90	0.003	0.005	0.12	
100	2.82	0.121	0.30	
110	6.24	0.080	0.46	
120	8.22	0.040	0.59	
140	9.07	0.029	0.65	
160	9.80	0.019	0.78	
181	11.32	0.014	0.90	
200	12.08	0.013	0.99	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.70	34.30	0.051	0.048	48.42
20	29.20	34.03	0.041	0.048	53.81
40	28.86	34.12	0.047	0.060	55.87
60	28.47	34.19	0.089	0.079	46.97
79	27.50	34.50	0.163	0.184	53.12
90	26.69	34.31	0.168	0.239	58.62
100	25.29	34.65	0.202	0.315	60.89
110	24.25	34.79	0.147	0.268	64.56
120	22.80	34.67	0.055	0.129	70.11
140	21.49	34.35	0.069	0.135	66.02
160	20.28	35.27	0.032	0.051	61.34
181	18.35	35.13			
200	16.90	35.30			

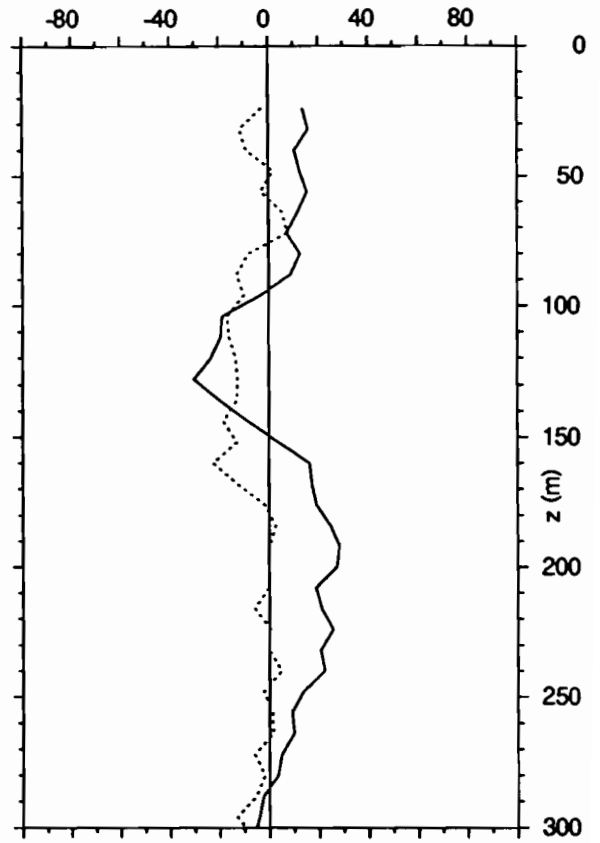
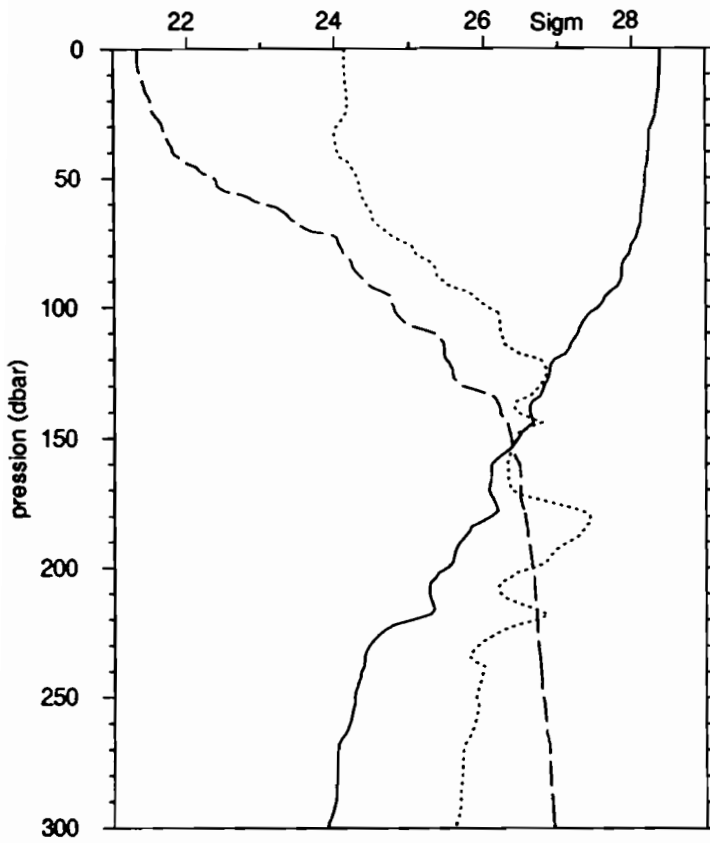
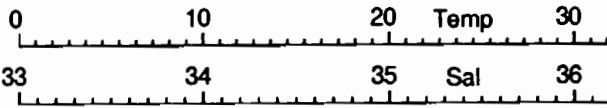


# EQUALIS -station 112

1°30 S 156°15 E

20/11/92, 13h 0 TU

20/11/92, 23h 0 locale

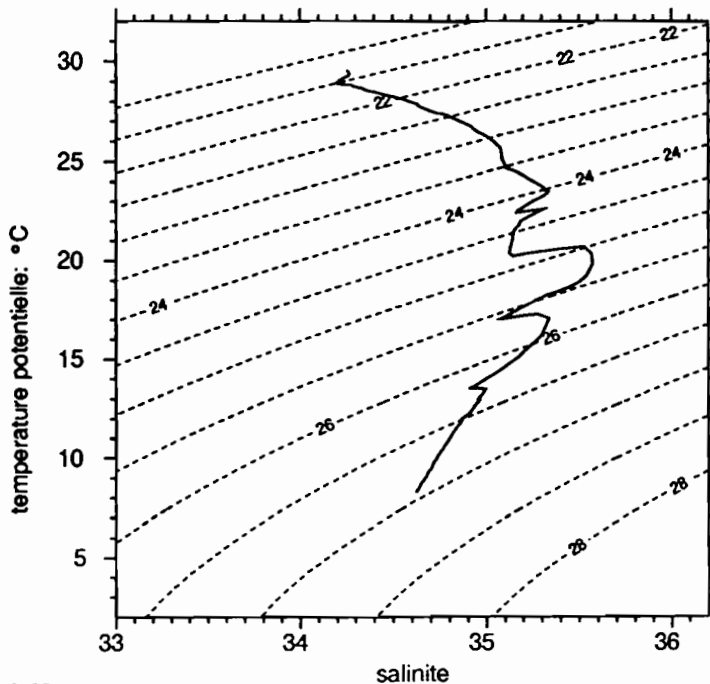


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.520	34.253
fin	500.0	8.315	34.622

	Z	U	V
debut	24.0	13.9	-2.7
fin	328.0	0.2	-4.3



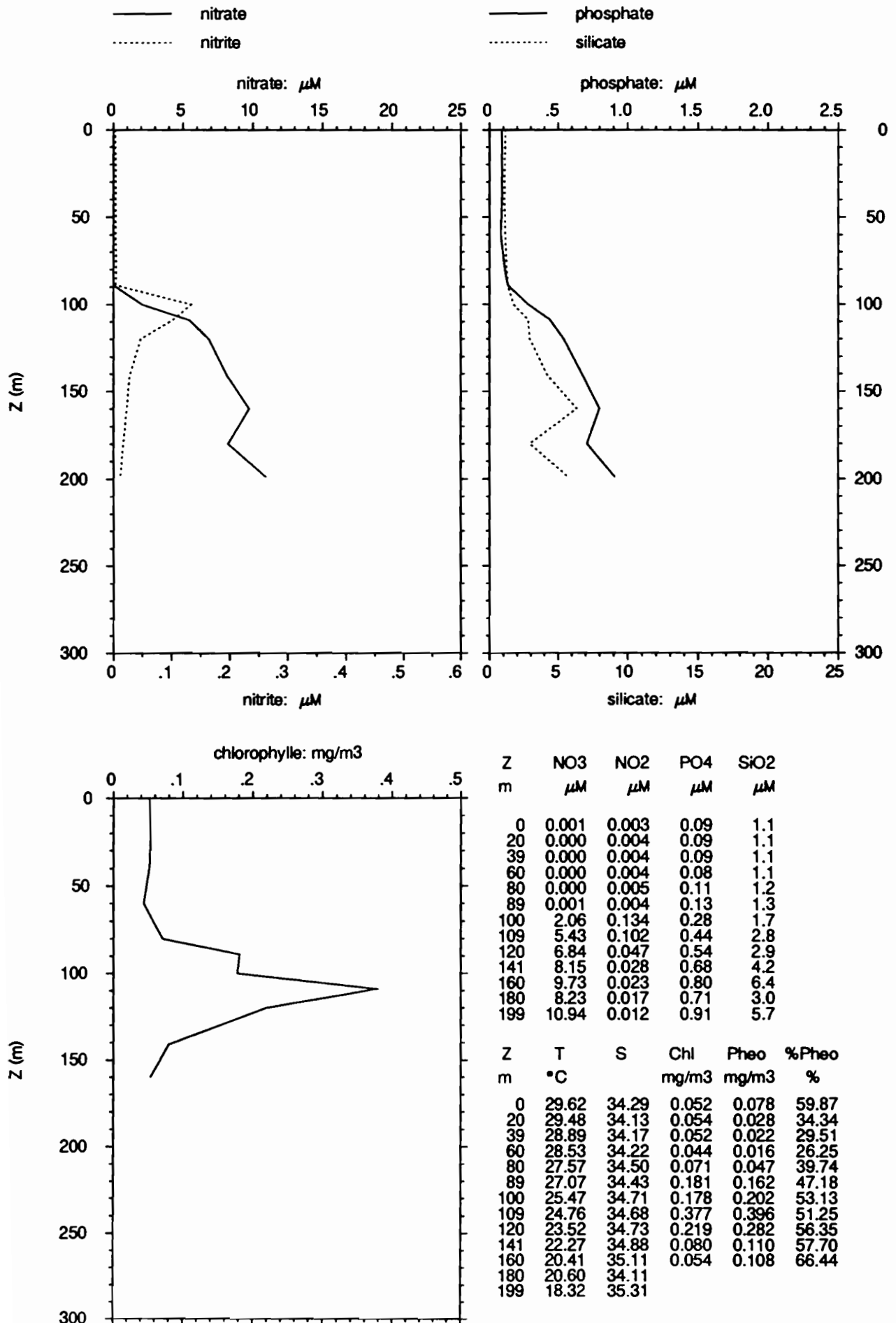
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.519	34.255		
20.0	29.364	34.267		
30.0	29.043	34.212	15.5	-9.2
40.0	28.874	34.215	10.5	-8.9
50.0	28.692	34.320	13.3	0.8
75.0	28.046	34.571	9.3	1.7
100.0	26.163	35.021	-11.0	-13.3
125.0	23.519	35.335	-27.7	-12.8
150.0	21.833	35.178	0.9	-14.3
200.0	18.007	35.271	27.2	-0.3
250.0	13.019	34.956	12.5	-1.2
300.0	11.583	34.841	-5.2	-9.4
400.0	9.882	34.723		
500.0	8.315	34.622		

# EQUALIS - station112

1°30 S 156°15 E

20/11/92, 13h 0 TU

20/11/92, 23h 0 locale



# EQUALIS -station 113

20/11/92, 16h 2 TU

1°30 S 156°15 E

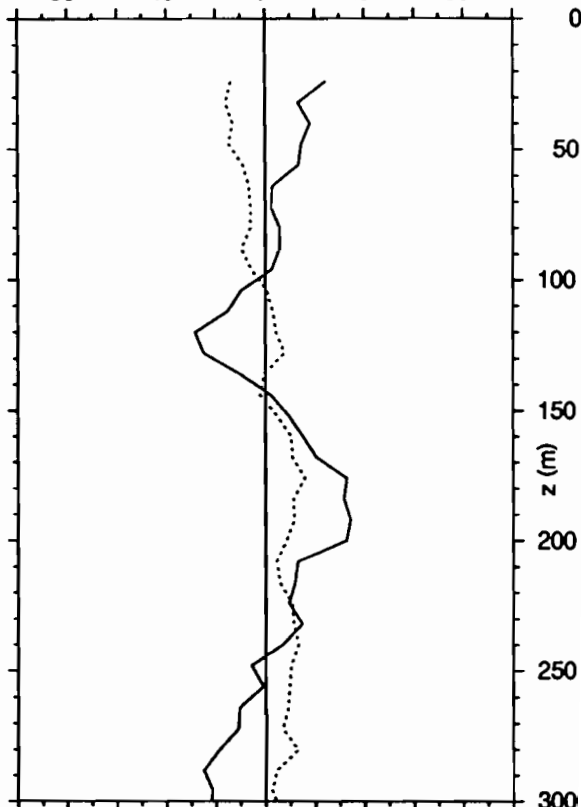
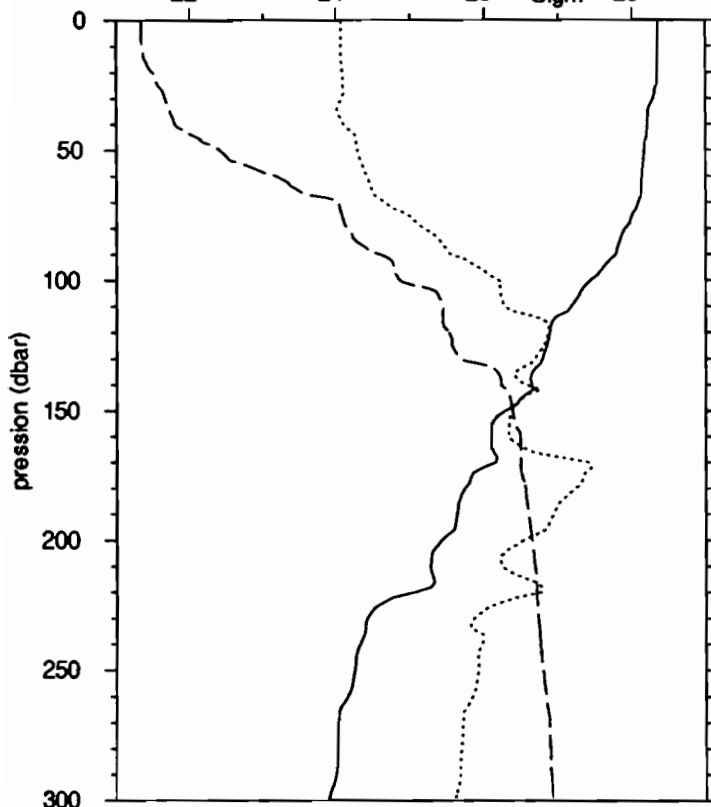
21/11/92, 2h 2 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

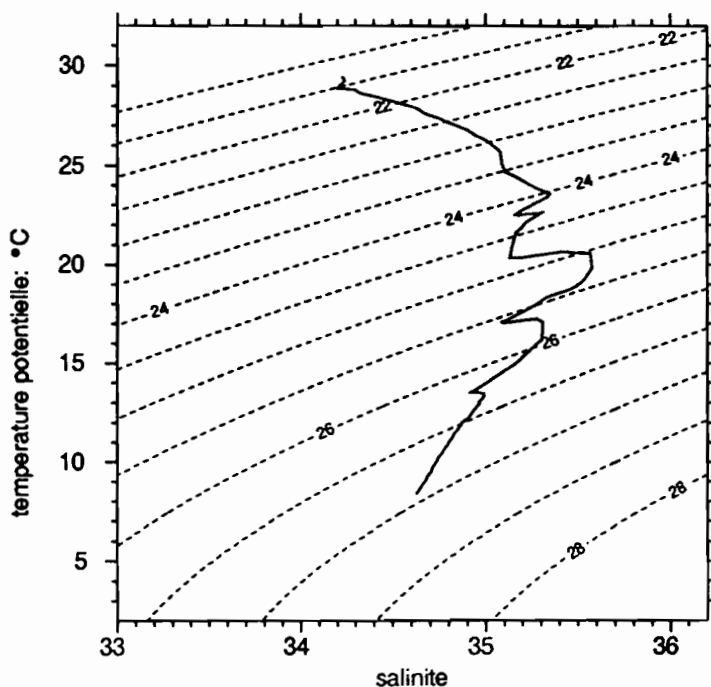


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.417	34.225
fin	498.0	8.423	34.626

	Z	U	V
debut	24.0	24.4	-13.7
fin	328.0	-16.6	4.6



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.417	34.226		
20.0	29.377	34.233		
30.0	29.157	34.232	16.1	-15.3
40.0	28.834	34.239	18.1	-13.0
50.0	28.669	34.315	14.3	-13.2
75.0	27.999	34.590	3.7	-5.7
100.0	25.724	35.080	-3.4	-2.4
125.0	23.373	35.321	-26.3	6.4
150.0	21.104	35.148	7.7	3.1
200.0	17.658	35.208	32.6	8.4
250.0	12.979	34.967	-4.4	10.1
300.0	11.579	34.840	-22.0	4.3
400.0	9.951	34.726		

# EQUALIS - station113

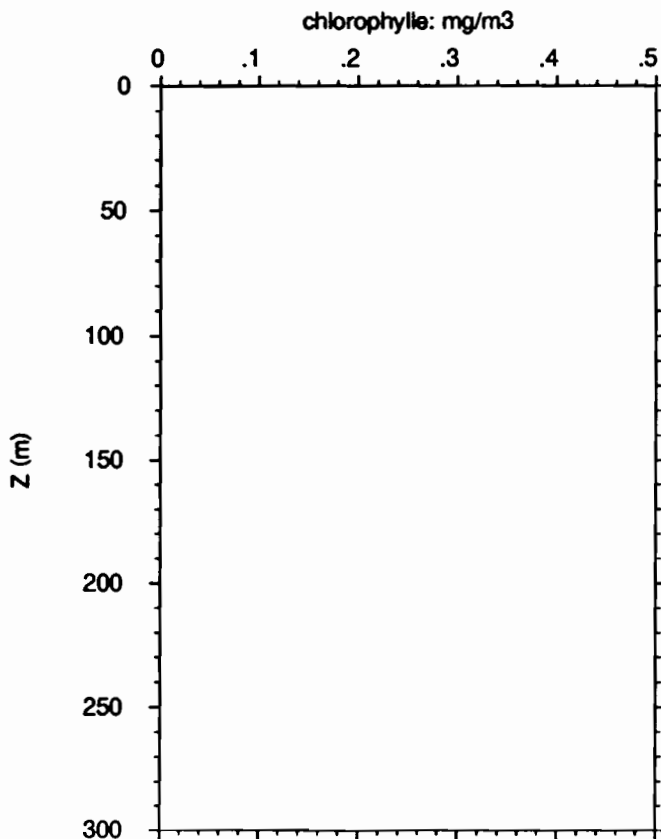
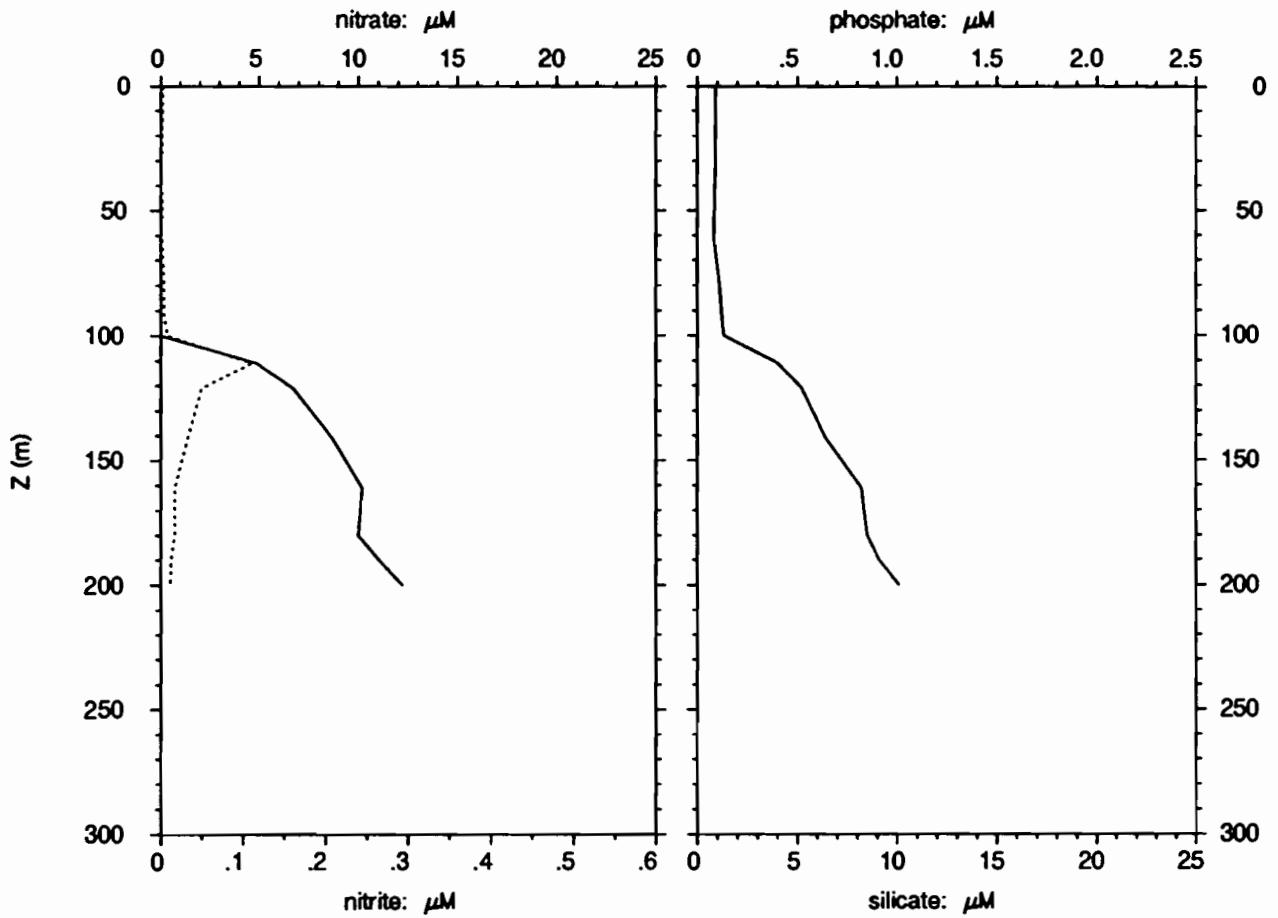
1°30 S 156°15 E

20/11/92, 16h 2 TU

21/11/92, 2h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.003	0.09	
31	0.003	0.001	0.09	
60	0.002	0.002	0.08	
80	0.001	0.004	0.11	
91	0.011	0.004	0.12	
100	0.002	0.008	0.13	
111	4.87	0.111	0.40	
121	6.72	0.050	0.52	
141	8.69	0.033	0.64	
161	10.19	0.017	0.82	
180	10.00	0.017	0.85	
190	11.05	0.013	0.91	
200	12.22	0.012	1.01	

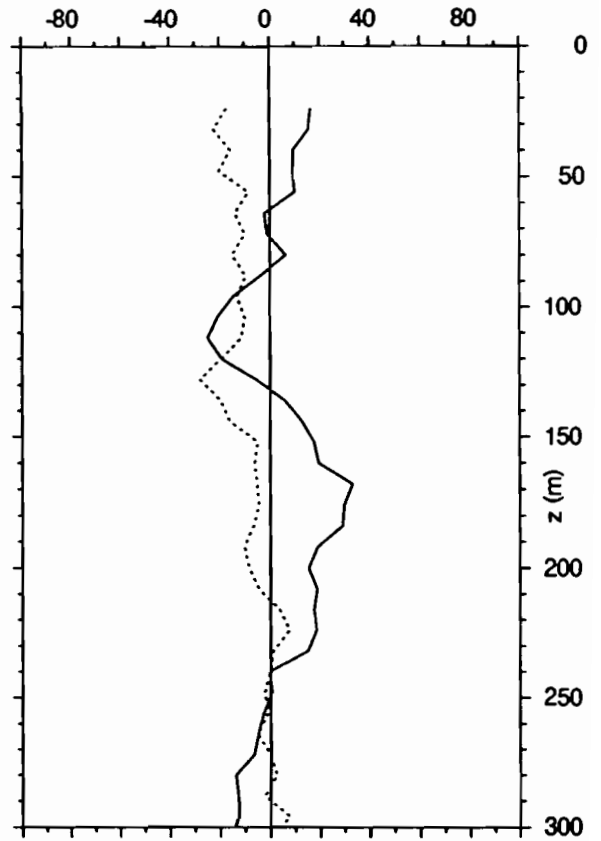
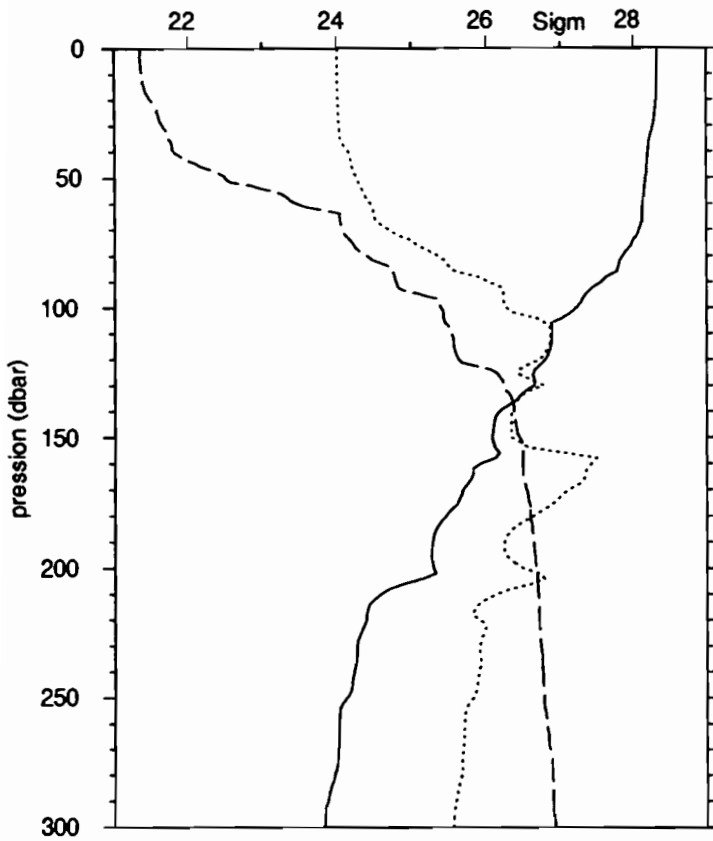
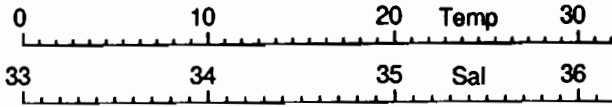
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.51	34.25			
31	28.91	34.19			
60	28.54	34.35			
80	27.64	34.50			
91	27.15	34.57			
100	26.21	34.60			
111	24.76	34.64			
121	23.58	35.27			
141	22.63	34.99			
161	20.38	35.11			
180	19.00	35.28			
190	18.44	34.92			
200	17.22	35.08			

# EQUALIS -station 114

20/11/92, 19h 0 TU

1° 30 S 156° 15 E

21/11/92, 5h 0 locale

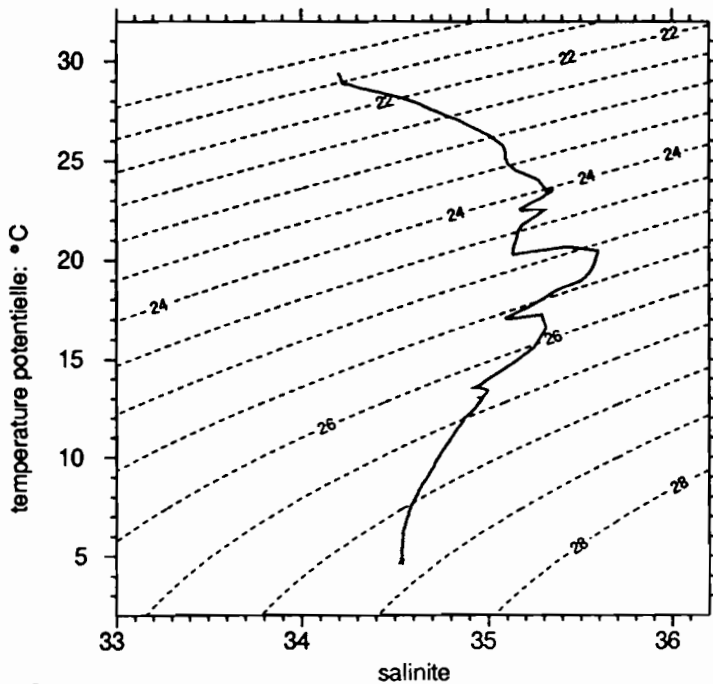


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.335	34.205
fin	998.0	4.676	34.538

	Z	U	V
debut	24.0	16.5	-17.3
fin	416.0	0.3	-4.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.332	34.205		
20.0	29.261	34.207		
30.0	29.087	34.214	15.8	-21.1
40.0	28.817	34.263	9.4	-15.7
50.0	28.673	34.308	9.4	-17.3
75.0	27.933	34.613	1.7	-11.9
100.0	24.848	35.106	-17.9	-11.6
125.0	22.545	35.175	-10.6	-24.8
150.0	20.298	35.133	16.4	-7.8
200.0	17.169	35.196	15.4	-8.4
250.0	12.542	34.931	-0.2	-2.0
300.0	11.319	34.823	-14.1	4.1
400.0	9.982	34.730	-20.5	9.7
500.0	8.490	34.635		
600.0	6.703	34.557		
700.0	6.217	34.545		
800.0	5.639	34.540		
900.0	4.945	34.534		

# EQUALIS - station114

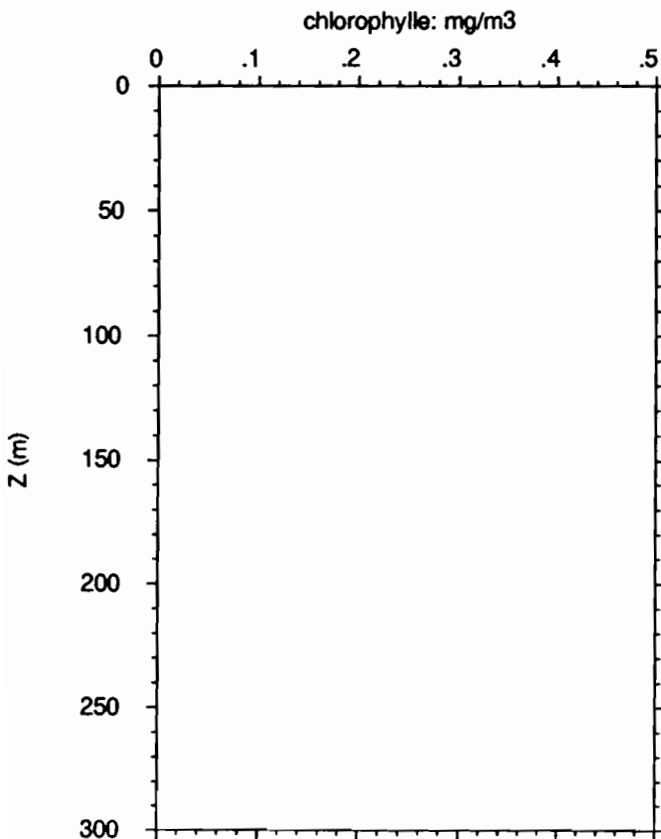
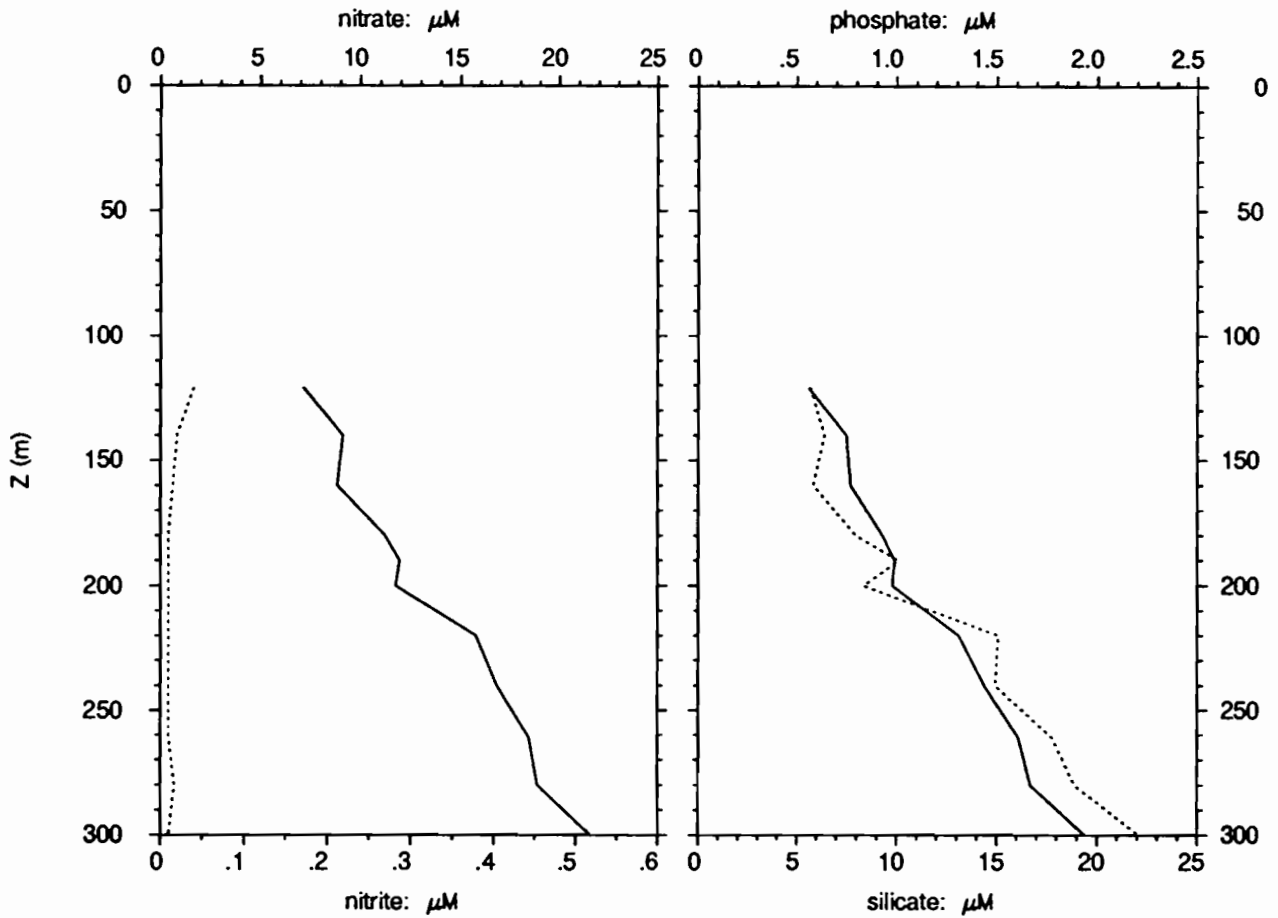
1°30 S 156°15 E

20/11/92, 19h 0 TU

21/11/92, 5h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
121	7.14	0.040	0.56	5.7
140	9.12	0.020	0.75	6.4
160	8.83	0.015	0.77	5.8
180	11.23	0.010	0.93	8.0
190	11.96	0.010	0.99	10.1
200	11.75	0.010	0.98	8.4
220	15.75	0.010	1.31	15.1
240	16.83	0.010	1.44	14.9
261	18.45	0.010	1.61	17.8
280	18.88	0.017	1.67	18.9
300	21.57	0.010	1.94	22.1
1001	27.02	0.010	2.76	60.5

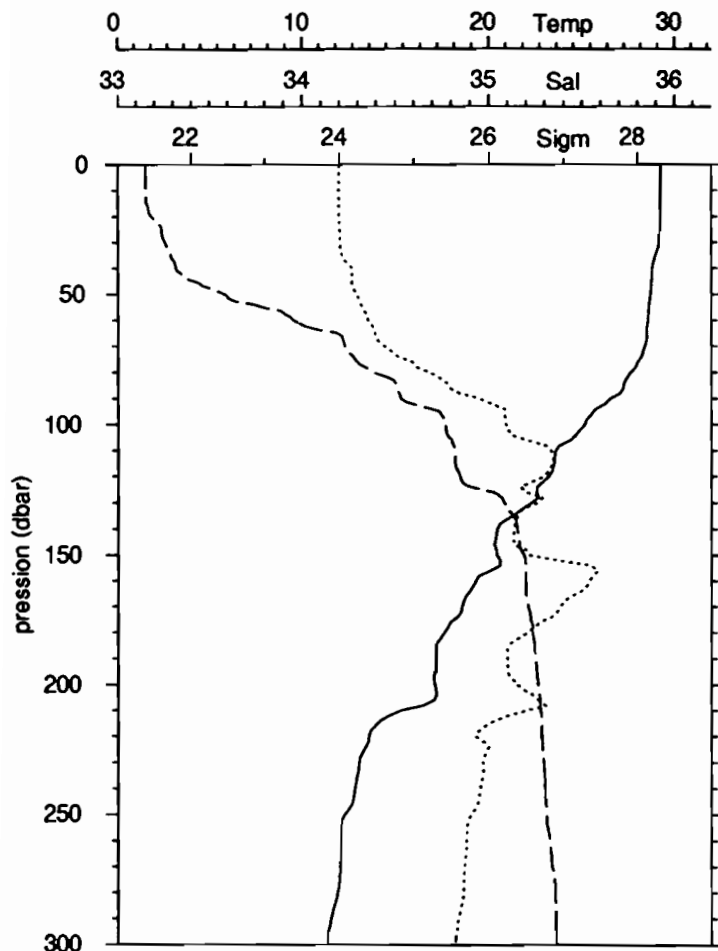
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
121	23.28	35.28			
140	20.75	34.91			
160	19.84	34.93			
180	17.51	34.99			
190	17.10	35.05			
200	17.16	34.56			
220	13.54	34.95			
240	12.81	34.67			
261	12.09	34.86			
280	11.93	34.86			
300	11.36	34.81			
1001	4.68	34.55			

# EQUALIS -station 115

20/11/92, 20h 7 TU

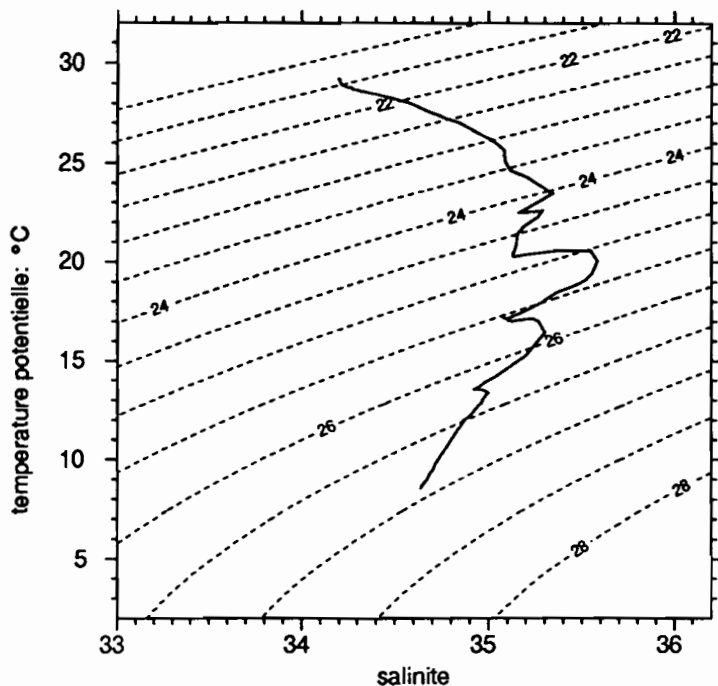
1°30 S 156°15 E

21/11/92, 6h 7 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.257	34.199
fin	500.0	8.579	34.639



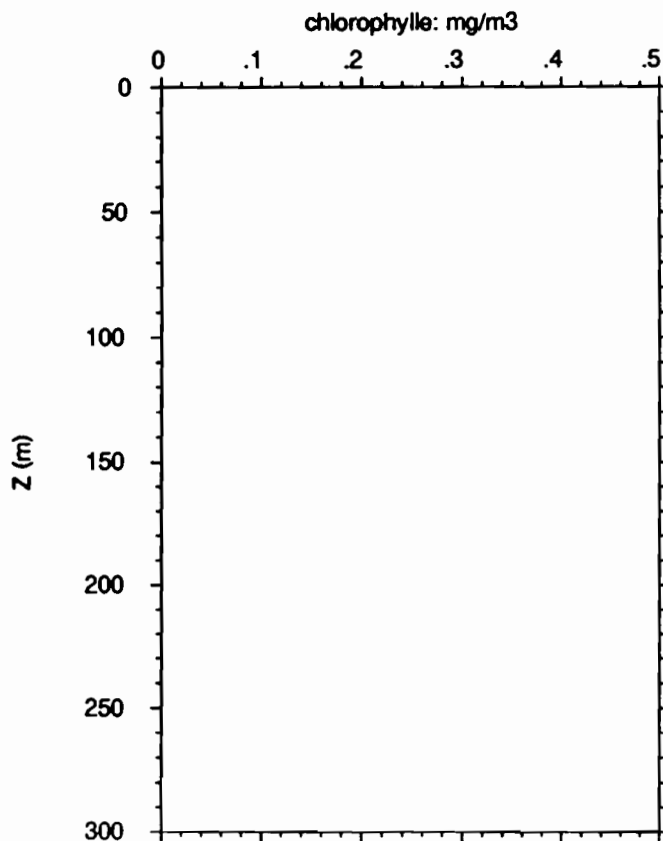
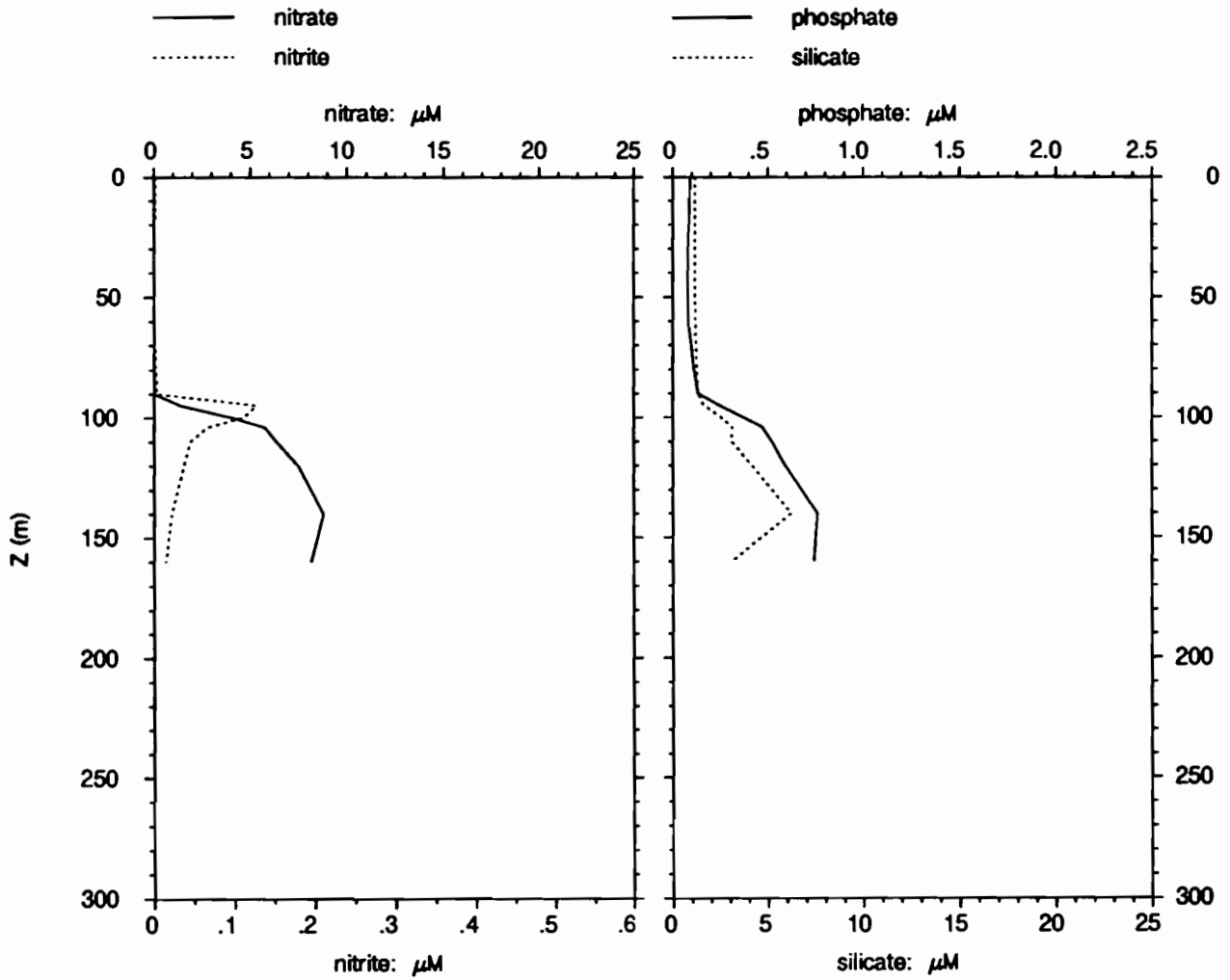
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.262	34.198		
20.0	29.228	34.199		
30.0	29.149	34.203		
40.0	28.787	34.267		
50.0	28.685	34.294		
75.0	28.104	34.551		
100.0	25.128	35.089		
125.0	22.552	35.183		
150.0	20.428	35.216		
200.0	17.104	35.152		
250.0	12.295	34.906		
300.0	11.352	34.822		
400.0	9.983	34.727		
500.0	8.579	34.639		

# EQUALIS - station115

1°30 S 156°15 E

20/11/92, 20h 7 TU

21/11/92, 6h 7 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.002	0.09	1.1
30	0.000	0.001	0.08	1.1
60	0.000	0.001	0.08	1.2
80	0.000	0.002	0.11	1.3
84	0.000	0.003	0.12	1.3
90	0.000	0.003	0.13	1.3
95	1.372	0.127	0.24	1.6
100	4.06	0.111	0.37	2.5
104	5.75	0.066	0.47	3.1
110	6.34	0.045	0.52	3.1
120	7.49	0.037	0.59	4.2
140	8.78	0.022	0.76	6.2
160	8.15	0.015	0.74	3.1

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.36	34.23			
30	29.07	34.11			
60	28.55	34.19			
80	27.75	34.42			
84	27.26	34.47			
90	26.30	34.68			
95	25.30	34.82			
100	24.76	34.84			
104	23.72	35.24			
110	23.45	34.99			
120	22.79	34.59			
140	20.56	35.07			
160	20.16	35.55			

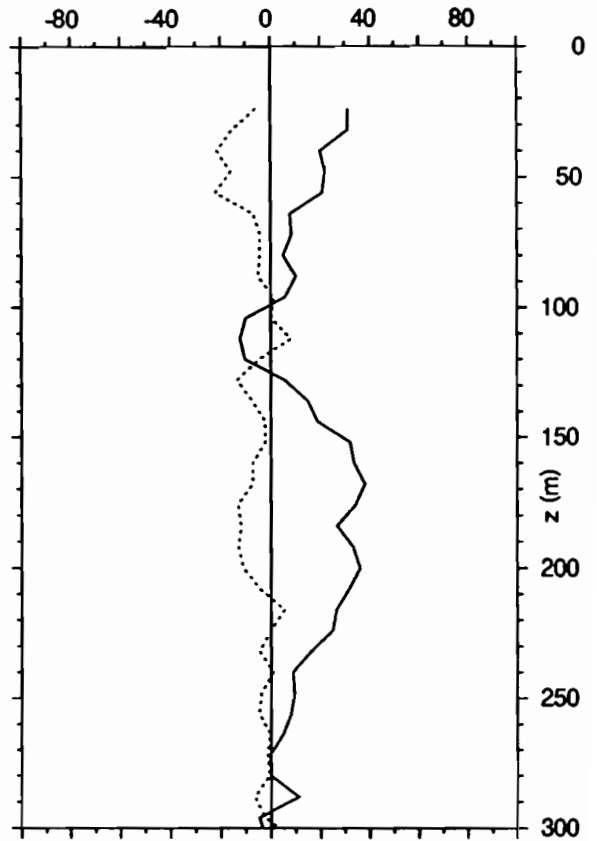
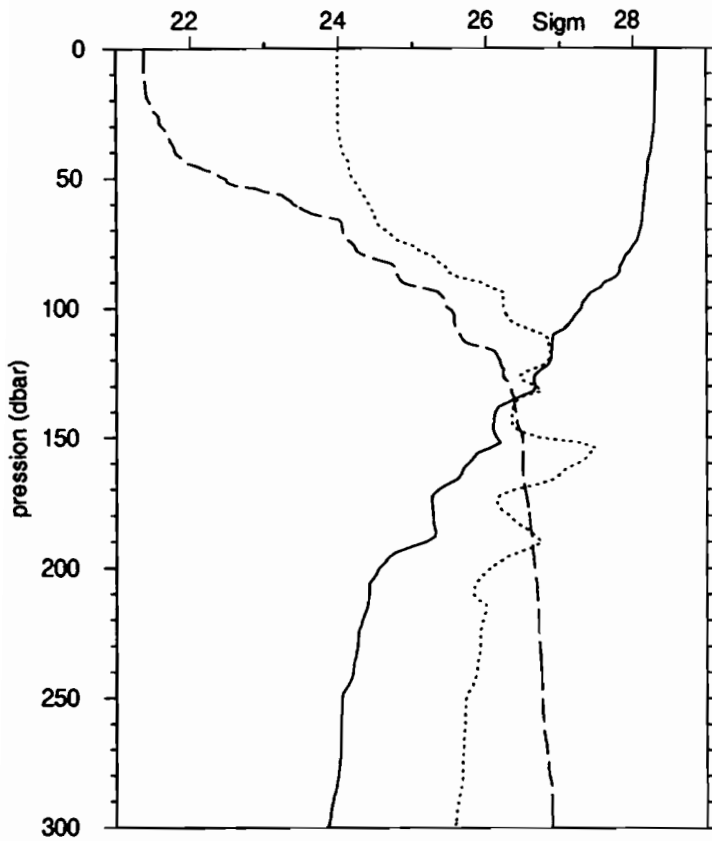
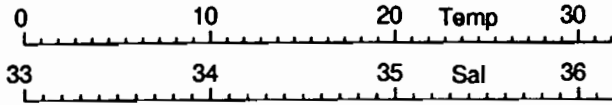


# EQUALIS -station 117

1° 30 S 156° 15 E

20/11/92, 22h 0 TU

21/11/92, 8h 0 locale

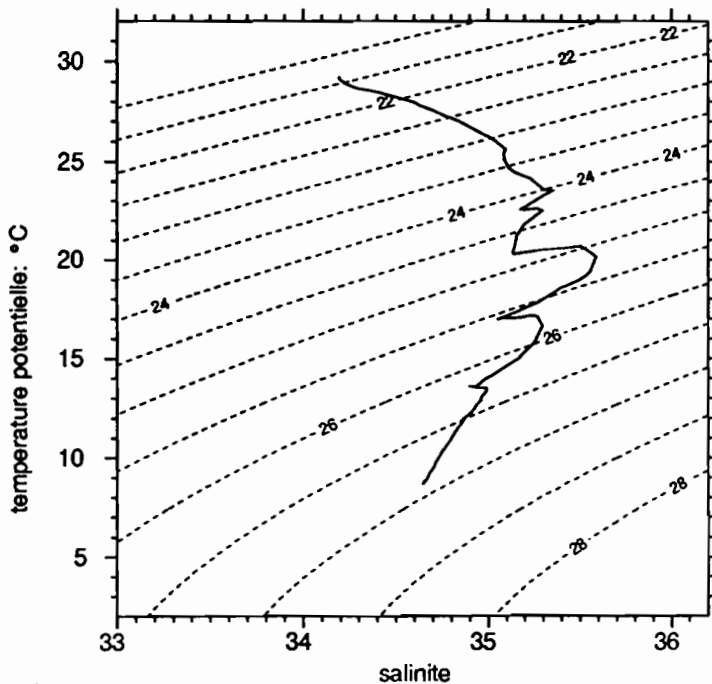


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.248	34.195
fin	502.0	8.725	34.646

	Z	U	V
debut	24.0	31.2	-5.9
fin	416.0	-15.3	4.6



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.243	34.194		
20.0	29.223	34.195		
30.0	29.159	34.195	31.3	-12.9
40.0	28.981	34.216	20.0	-21.4
50.0	28.740	34.271	21.7	-17.5
75.0	28.087	34.560	7.2	-4.2
100.0	25.134	35.088	-2.2	0.8
125.0	22.731	35.204	-0.3	-10.2
150.0	20.530	35.286	28.7	-2.1
200.0	14.140	35.017	36.0	-10.9
250.0	12.128	34.885	9.1	-4.0
300.0	11.375	34.826	-3.2	3.1
400.0	10.087	34.734	-1.7	1.7
500.0	8.730	34.647		

# EQUALIS - station117

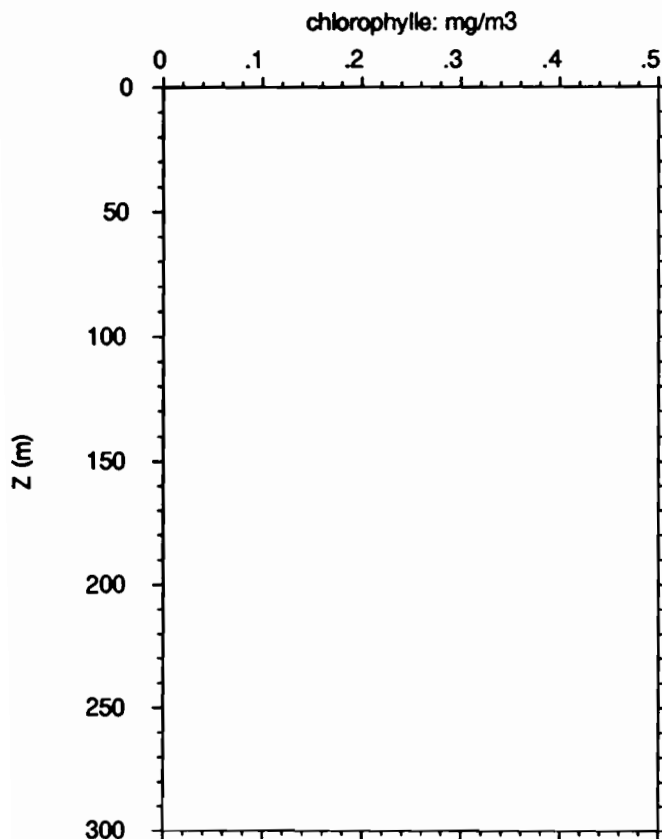
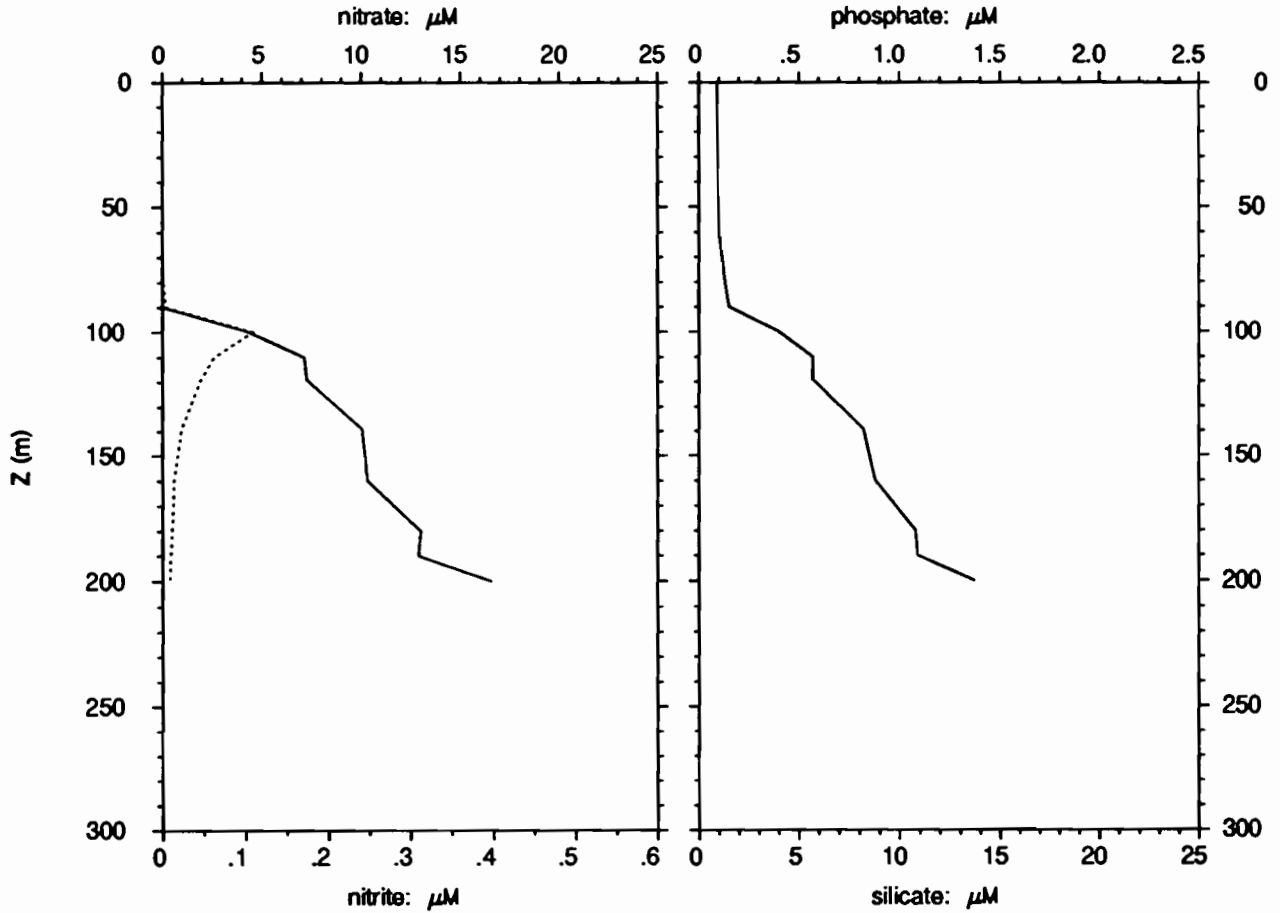
1°30 S 156°15 E

20/11/92, 22h 0 TU

21/11/92, 8h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.000	0.09	
29	0.002	0.000	0.09	
60	0.002	0.000	0.10	
80	0.002	0.001	0.13	
90	0.009	0.004	0.15	
100	4.36	0.109	0.40	
110	7.12	0.062	0.57	
119	7.24	0.046	0.57	
139	10.04	0.023	0.82	
160	10.31	0.014	0.88	
180	13.02	0.012	1.08	
190	12.91	0.010	1.09	
200	16.56	0.009	1.37	

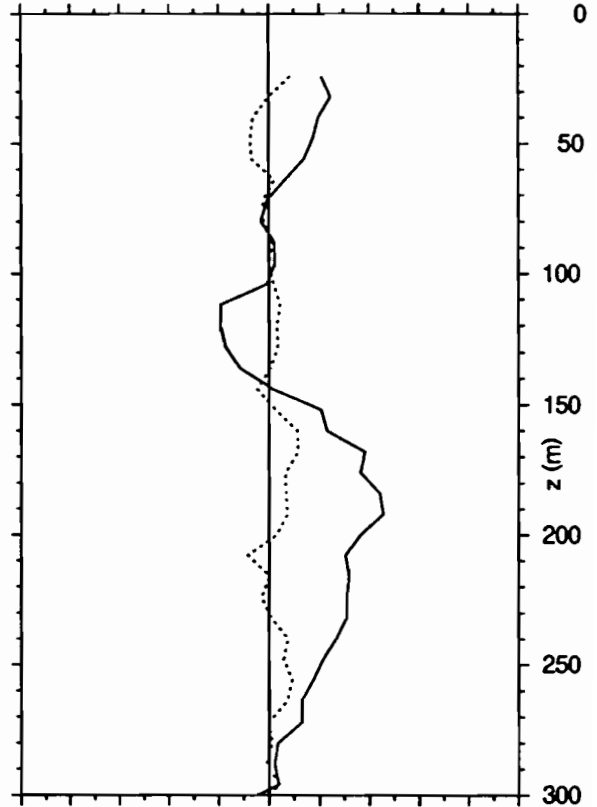
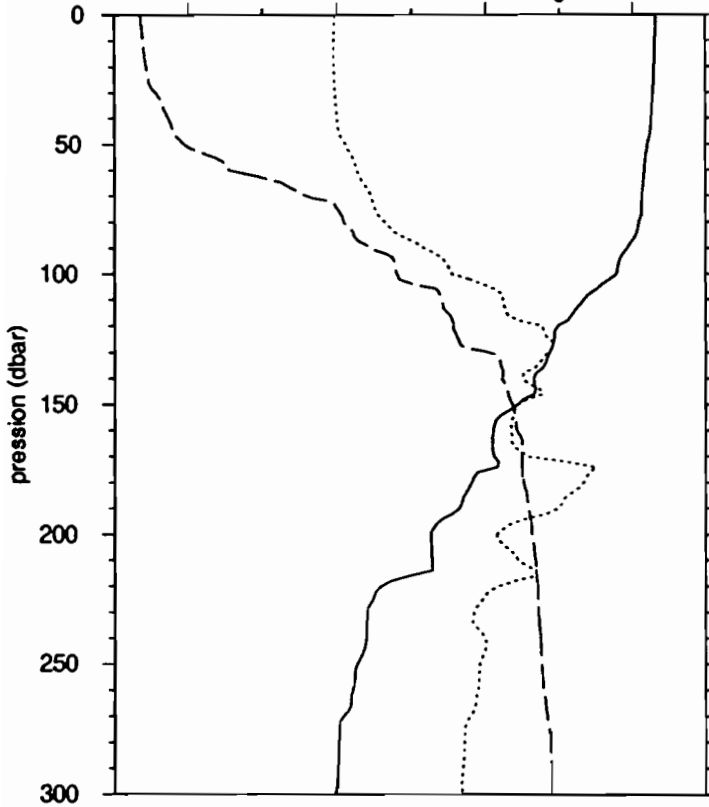
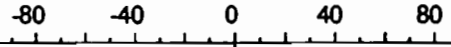
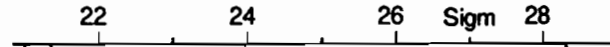
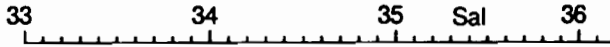
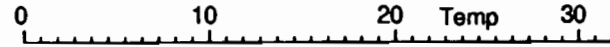
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.37	34.22			
29	29.06	34.09			
60	28.57	34.19			
80	2.59	34.30			
90	26.41	34.43			
100	25.12	34.66			
110	23.59	65.21			
119	23.52	34.44			
139	20.70	34.82			
160	19.26	34.99			
180	17.08	35.03			
190	16.57	34.05			
200	14.05	34.96			

# EQUALIS -station 118

21/11/92, 1h 1 TU

1°30 S 156°15 E

21/11/92, 11h 1 locale

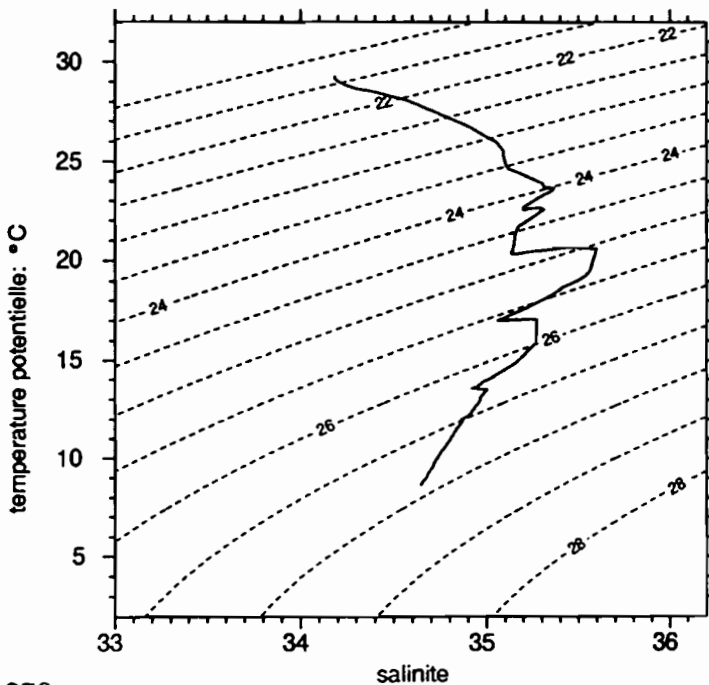


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.289	34.186
fin	502.0	8.664	34.643

	Z	U	V
debut	24.0	21.0	8.5
fin	320.0	-4.8	5.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.235	34.184		
20.0	29.187	34.183		
30.0	29.133	34.188	23.7	1.7
40.0	29.045	34.200	19.7	-6.2
50.0	28.825	34.247	16.6	-7.2
75.0	28.496	34.402	-1.6	-2.1
100.0	27.120	34.818	0.9	0.9
125.0	23.703	35.346	-18.0	3.4
150.0	21.718	35.171	16.0	0.9
200.0	17.017	35.058	36.5	3.2
250.0	13.076	34.966	20.4	6.7
300.0	11.900	34.869	-4.5	-0.3
400.0	10.118	34.739		
500.0	8.677	34.643		

# EQUALIS - station118

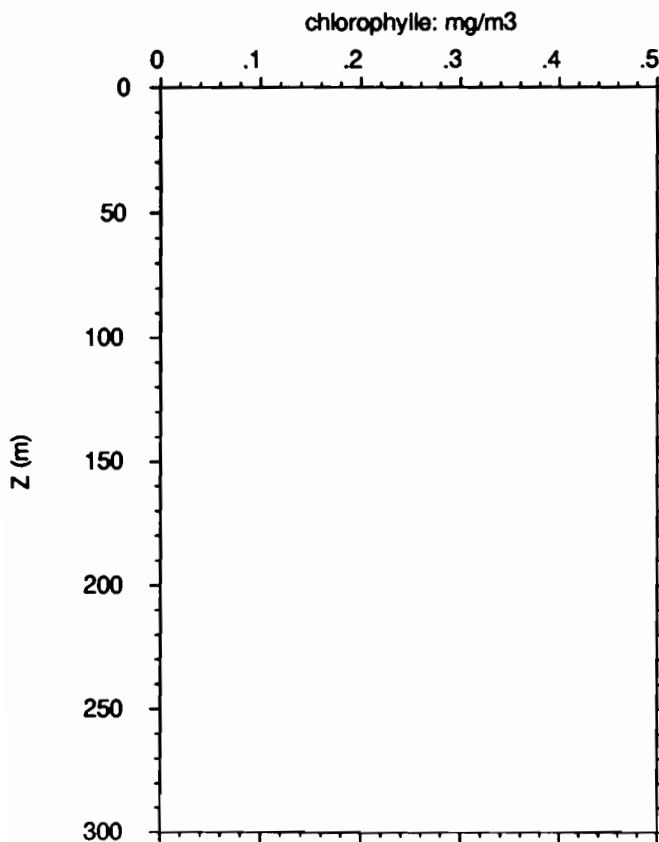
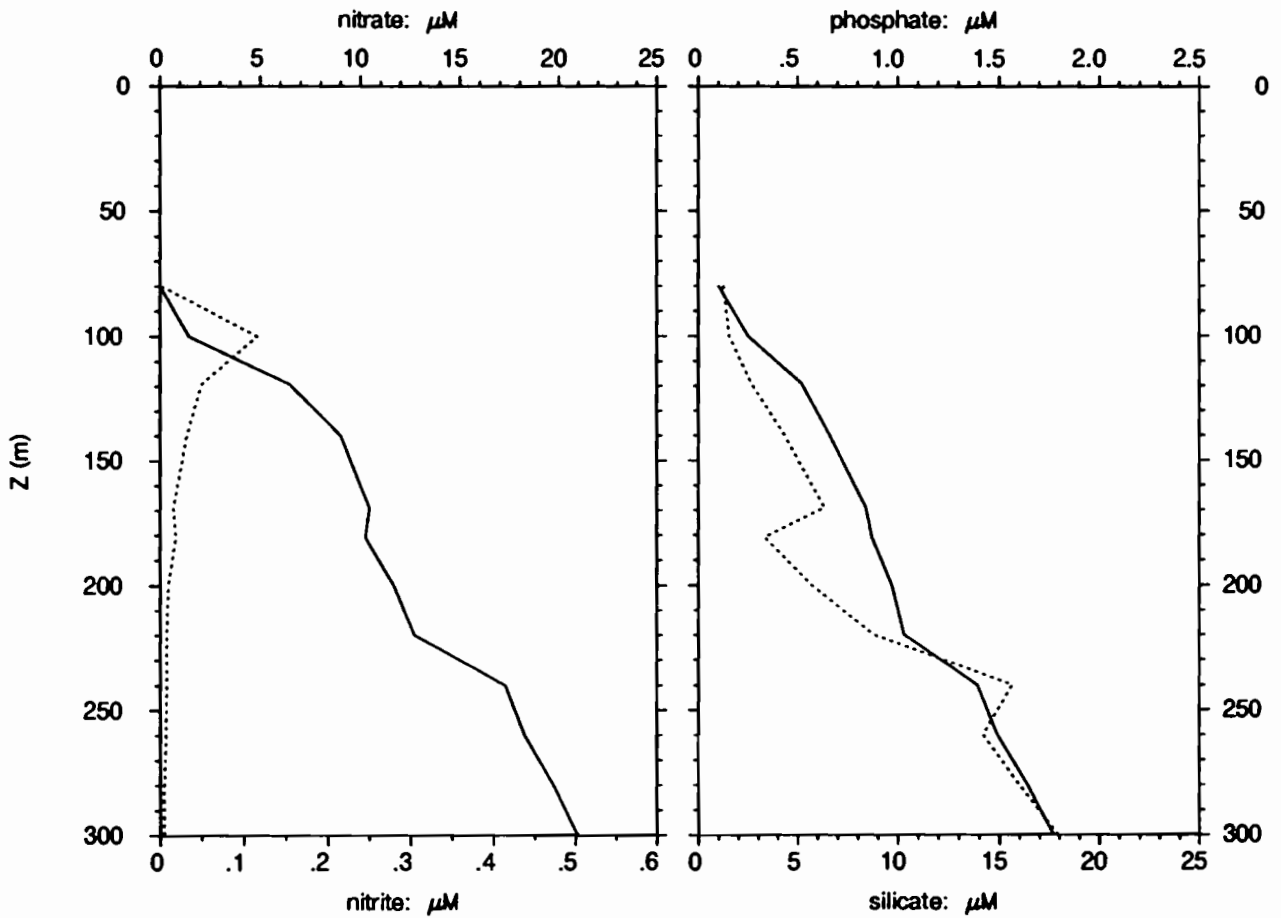
1°30 S 156°15 E

21/11/92, 1h 1 TU

21/11/92, 11h 1 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
80	0.003	0.002	0.10	1.2
100	1.439	0.116	0.25	1.5
119	6.42	0.050	0.52	2.7
140	9.00	0.032	0.66	4.3
169	10.43	0.016	0.84	6.3
181	10.24	0.019	0.87	3.3
200	11.66	0.010	0.97	5.7
220	12.69	0.008	1.03	8.8
240	17.27	0.008	1.39	15.6
260	18.24	0.007	1.49	14.2
280	19.70	0.005	1.64	16.0
300	20.94	0.005	1.77	17.9

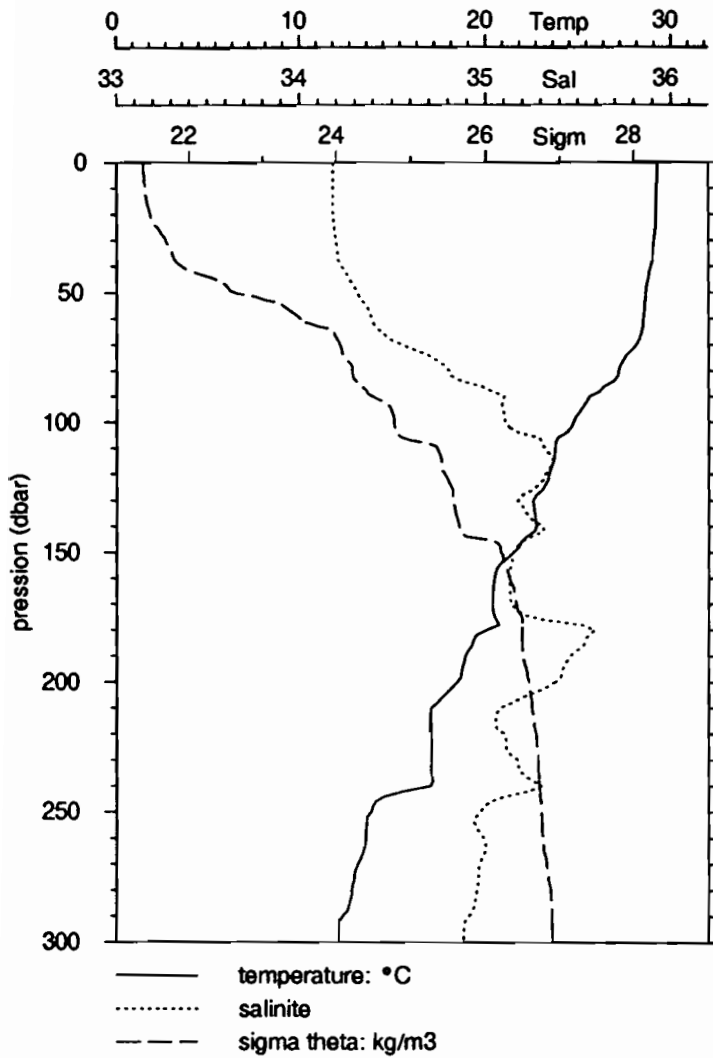
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
80	27.95	34.08			
100	25.46	34.88			
119	23.70	34.88			
140	22.62	35.06			
169	20.34	35.07			
181	19.87	35.16			
200	17.88	35.22			
220	17.08	34.22			
240	13.61	34.89			
260	13.09	34.88			
280	12.21	34.72			
300	12.03	34.86			

# EQUALIS -station 119

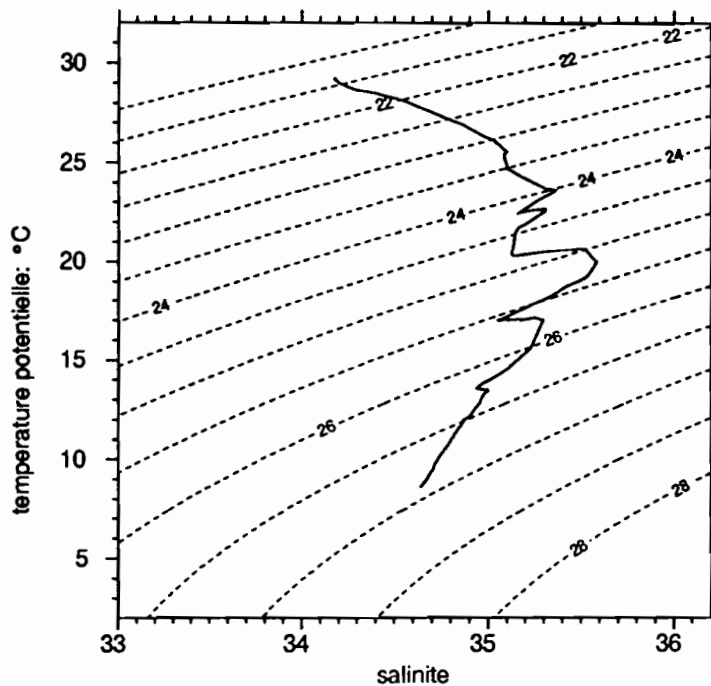
1°30 S 156°15 E

21/11/92, 1h49 TU

21/11/92, 11h49 locale



	P	T	S
debut	6.0	29.247	34.182
fin	502.0	8.656	34.642



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.209	34.180		
20.0	29.168	34.180		
30.0	29.065	34.196		
40.0	28.897	34.226		
50.0	28.636	34.312		
75.0	27.495	34.718		
100.0	24.728	35.101		
125.0	23.120	35.266		
150.0	21.475	35.145		
200.0	18.456	35.371		
250.0	13.861	34.970		
300.0	12.096	34.880		
400.0	10.254	34.746		
500.0	8.672	34.642		

# EQUALIS - station119

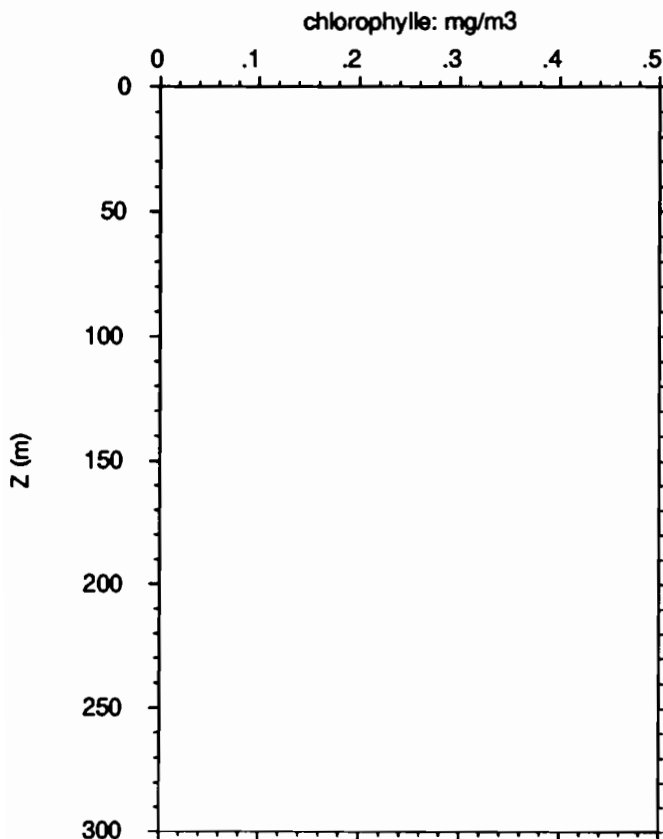
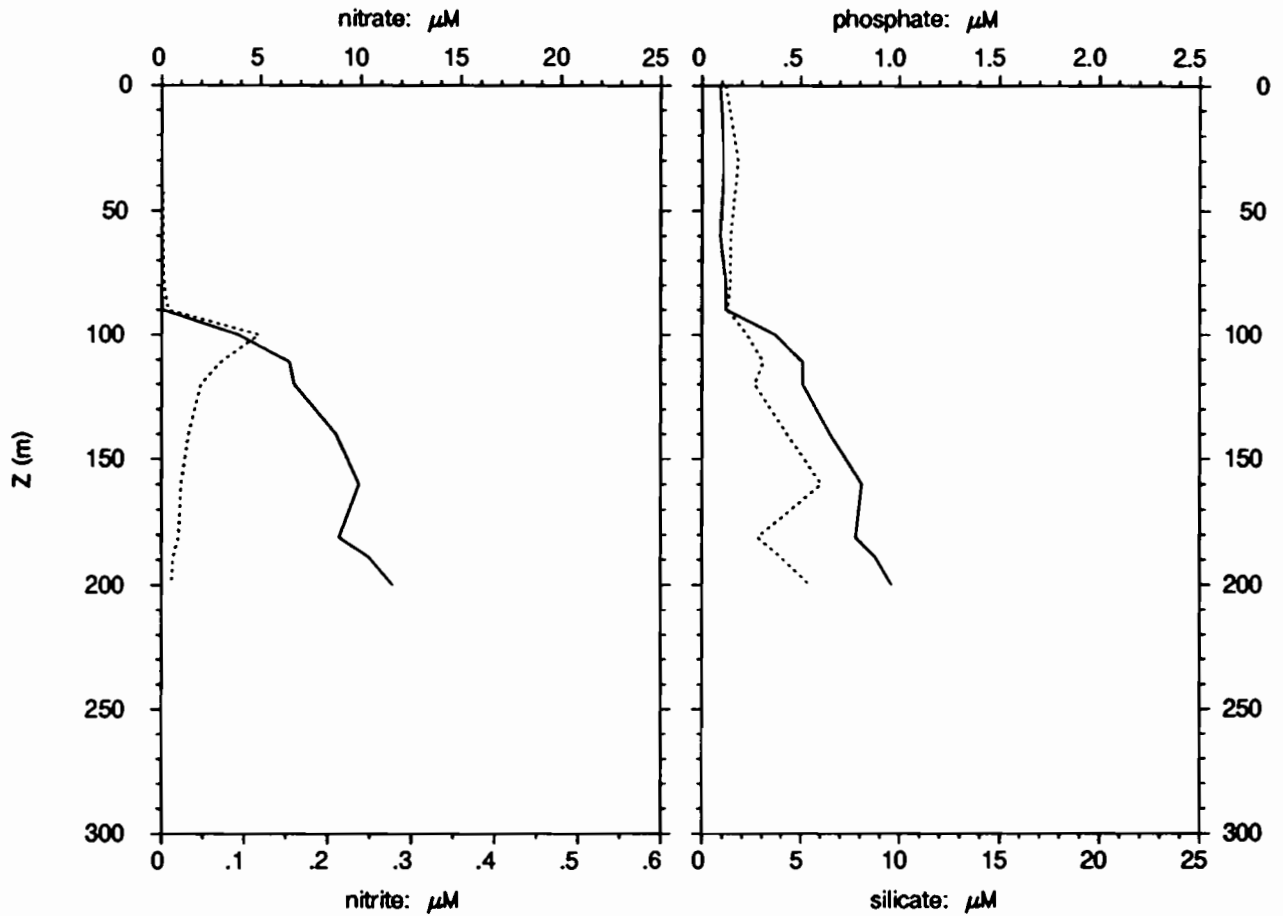
1°30 S 156°15 E

21/11/92, 1h49 TU

21/11/92, 11h49 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.001	0.09	1.2
30	0.004	0.001	0.11	1.8
60	0.001	0.002	0.09	1.4
80	0.001	0.003	0.12	1.4
90	0.042	0.008	0.12	1.3
100	3.88	0.118	0.37	2.3
111	6.45	0.072	0.51	3.1
120	6.67	0.048	0.51	2.6
140	8.76	0.033	0.65	4.3
160	9.90	0.024	0.81	6.1
181	8.91	0.021	0.78	2.8
189	10.41	0.014	0.88	4.0
200	11.57	0.012	0.96	5.4

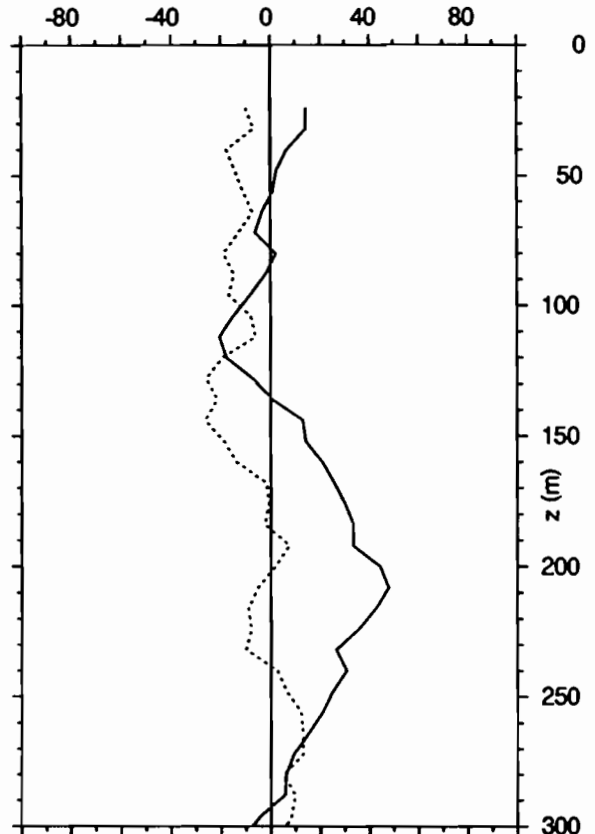
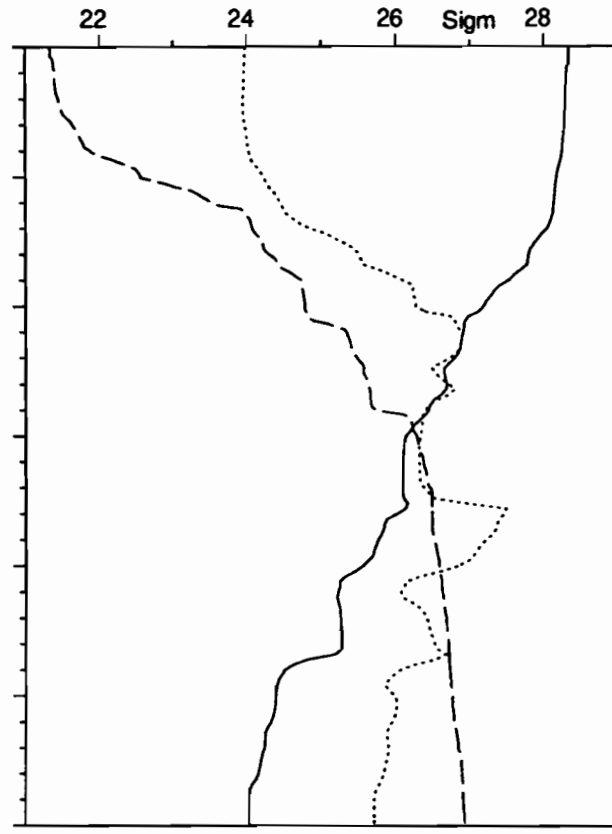
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.86	34.22			
30	29.13	34.14			
60	28.57	34.11			
80	27.47	34.49			
90	26.26	34.26			
100	26.09	34.55			
111	24.23	35.04			
120	23.60	35.05			
140	22.65	34.35			
160	20.50	35.03			
181	20.10	35.11			
189	18.94	35.04			
200	18.15	35.28			

# EQUALIS -station 120

21/11/92, 4h 2 TU

1°30 S 156°15 E

21/11/92, 14h 2 locale

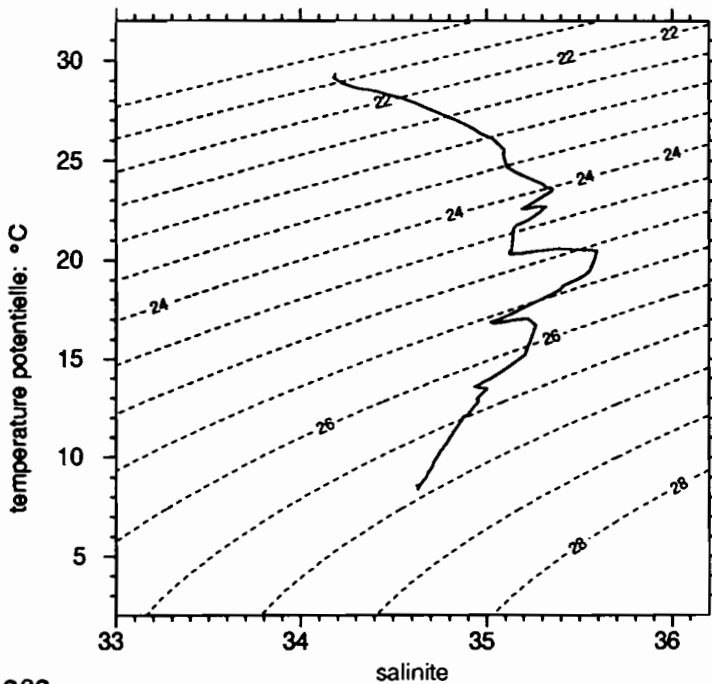


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.367	34.190
fin	498.0	8.424	34.629

	Z	U	V
debut	24.0	14.4	-10.0
fin	312.0	-12.2	0.0



P	T	S	U	V
dbar	°C	S	cm/s	cm/s
10.0	29.241	34.186		
20.0	29.187	34.182		
30.0	29.120	34.190	14.4	-7.5
40.0	28.986	34.210	6.7	-17.7
50.0	28.697	34.289	2.2	-13.5
75.0	27.561	34.703	-3.0	-15.2
100.0	24.720	35.109	-11.7	-12.4
125.0	22.609	35.206	-11.2	-23.6
150.0	20.531	35.135	13.9	-20.7
200.0	18.213	35.332	44.4	1.9
250.0	13.556	34.993	24.0	7.9
300.0	12.076	34.877	-7.3	6.1
400.0	10.228	34.745		

# EQUALIS - station120

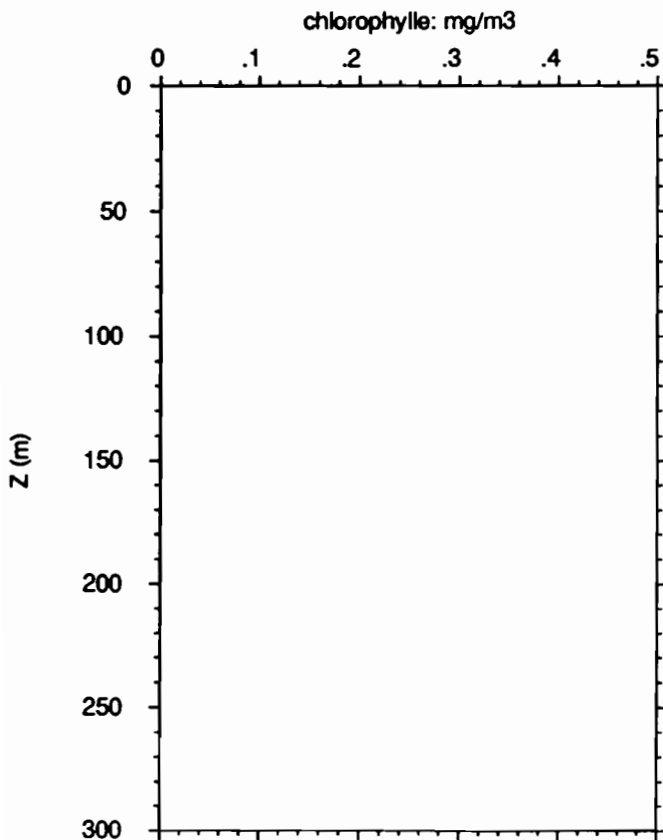
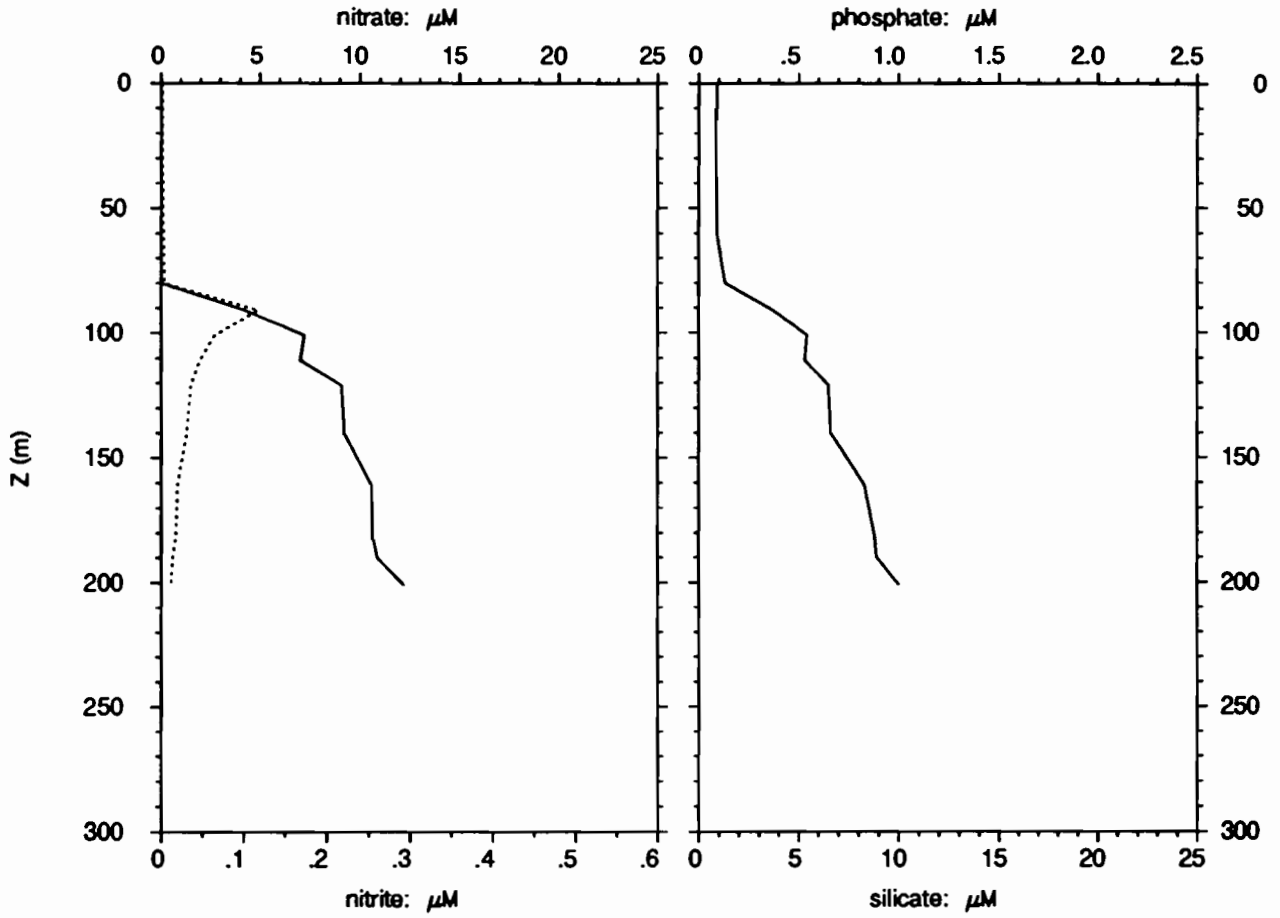
1°30 S 156°15 E

21/11/92, 4h 2 TU

21/11/92, 14h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.002	0.09	
30	0.002	0.002	0.08	
60	0.002	0.003	0.09	
80	0.005	0.004	0.13	
91	4.24	0.118	0.37	
101	7.23	0.065	0.54	
111	7.02	0.047	0.53	
121	9.09	0.036	0.65	
140	9.21	0.031	0.66	
161	10.57	0.020	0.83	
181	10.62	0.018	0.88	
190	10.85	0.014	0.89	
201	12.19	0.012	1.00	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.19	34.23			
30	29.05	34.19			
60	28.39	33.85			
80	26.69	34.18			
91	25.16	34.42			
101	23.70	35.12			
111	23.51	34.82			
121	22.65	34.70			
140	21.58	34.60			
161	20.37	35.05			
181	19.39	34.79			
190	18.49	34.77			
201	17.81	35.20			

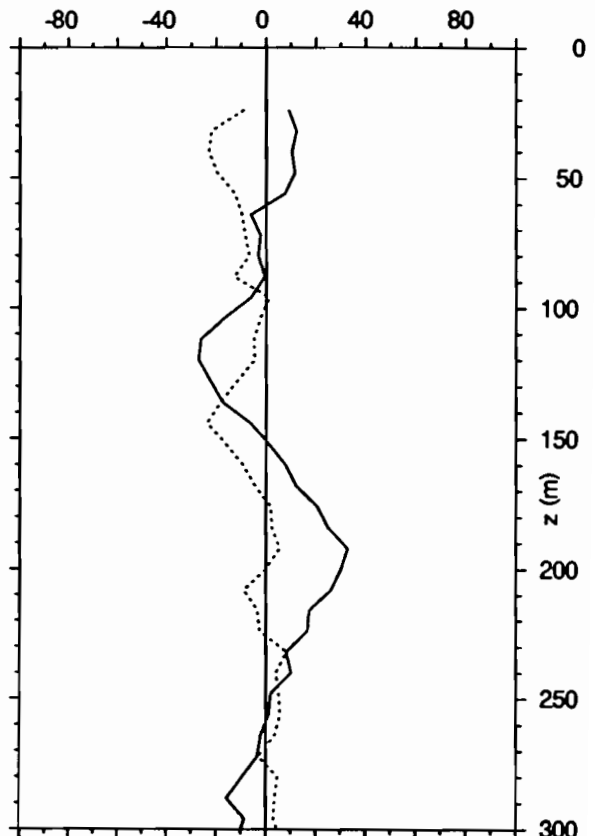
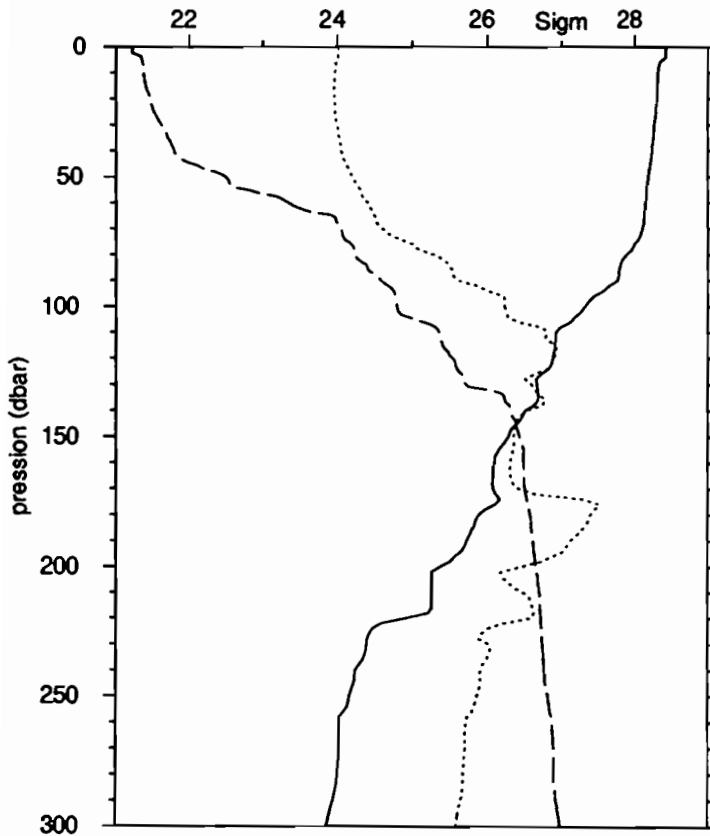


# EQUALIS -station 121

21/11/92, 7h 0 TU

1°30 S 156°15 E

21/11/92, 17h 0 locale

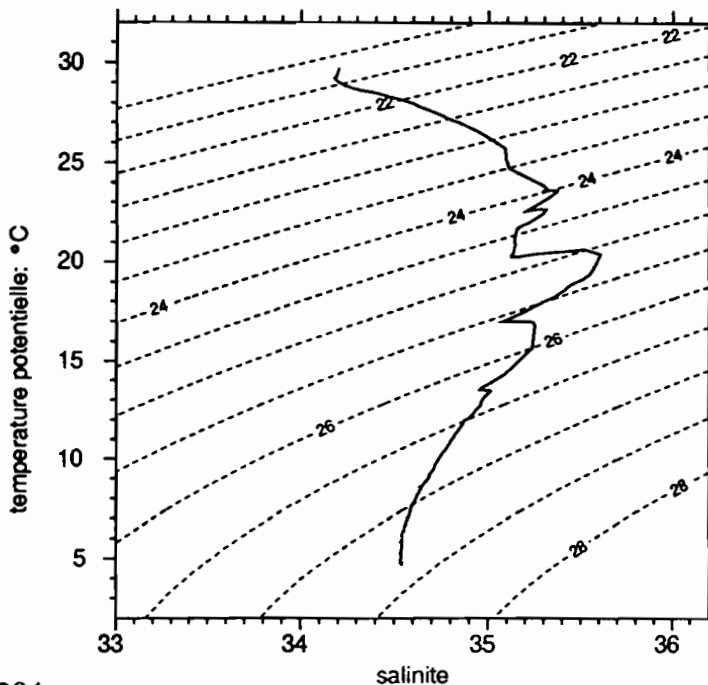


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.714	34.203
fin	996.0	4.754	34.539

	Z	U	V
debut	24.0	9.2	-8.9
fin	400.0	5.3	1.0



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.275	34.186		
20.0	29.207	34.184		
30.0	29.055	34.197	11.4	-18.6
40.0	28.939	34.219	10.4	-23.0
50.0	28.733	34.278	10.6	-17.9
75.0	28.098	34.562	-2.5	-7.8
100.0	25.260	35.093	-11.6	-0.6
125.0	23.099	35.288	-24.1	-8.8
150.0	21.137	35.141	-0.6	-18.0
200.0	17.472	35.175	30.2	0.0
250.0	12.641	34.946	1.9	5.4
300.0	11.435	34.835	-9.9	4.6
400.0	9.891	34.726		
500.0	7.946	34.608		
600.0	6.530	34.553		
700.0	6.215	34.546		
800.0	5.634	34.540		
900.0	5.209	34.539		

# EQUALIS - station121

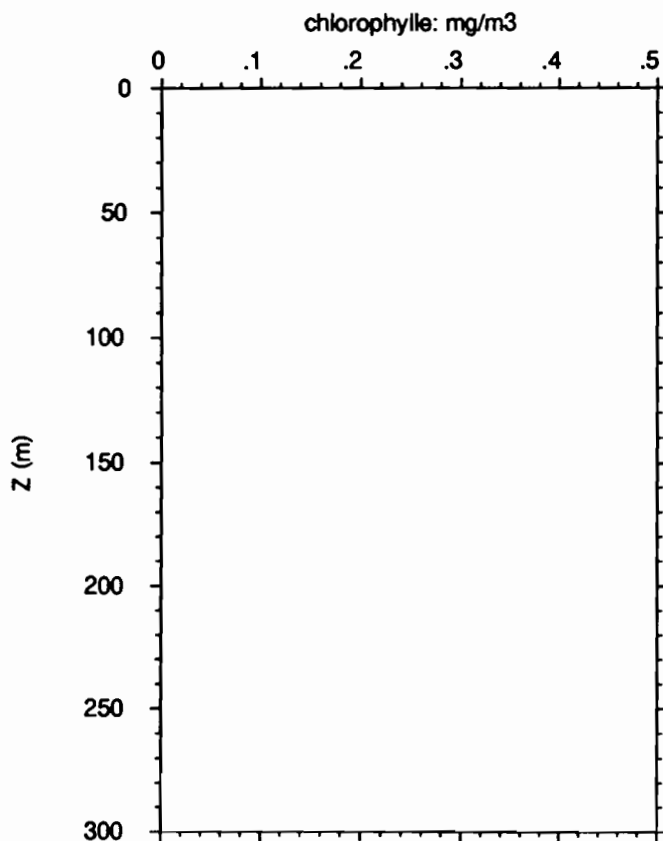
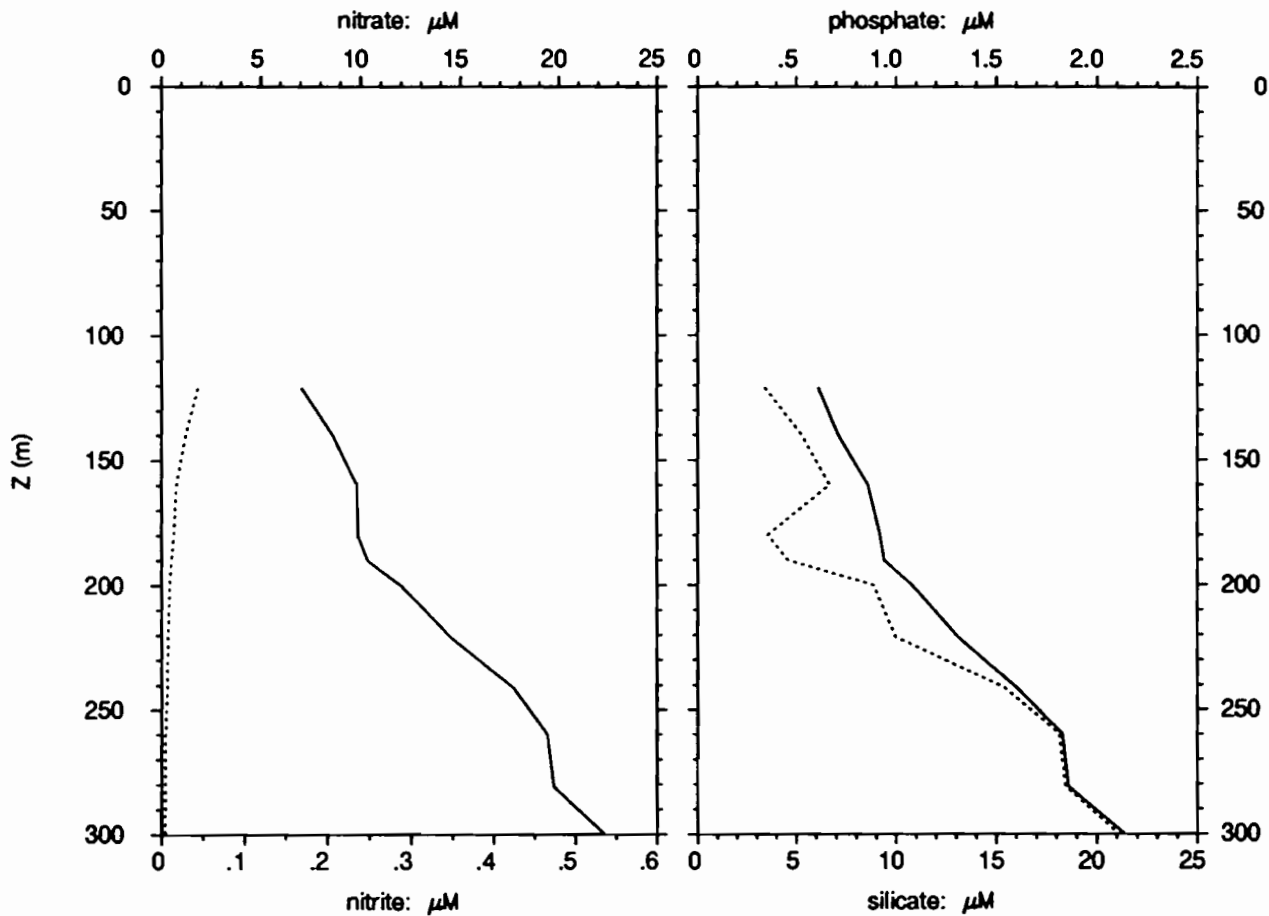
1°30 S 156°15 E

21/11/92, 7h 0 TU

21/11/92, 17h 0 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
121	7.05	0.044	0.61	3.4
140	8.62	0.029	0.71	5.3
160	9.82	0.018	0.86	6.7
180	9.87	0.015	0.92	3.6
190	10.34	0.012	0.94	4.6
200	11.99	0.010	1.08	8.9
221	14.51	0.008	1.31	10.0
241	17.68	0.007	1.60	15.4
260	19.40	0.005	1.83	18.1
281	19.74	0.005	1.86	18.5
301	22.46	0.004	2.15	21.2
1000	29.32	0.002	3.18	60.1

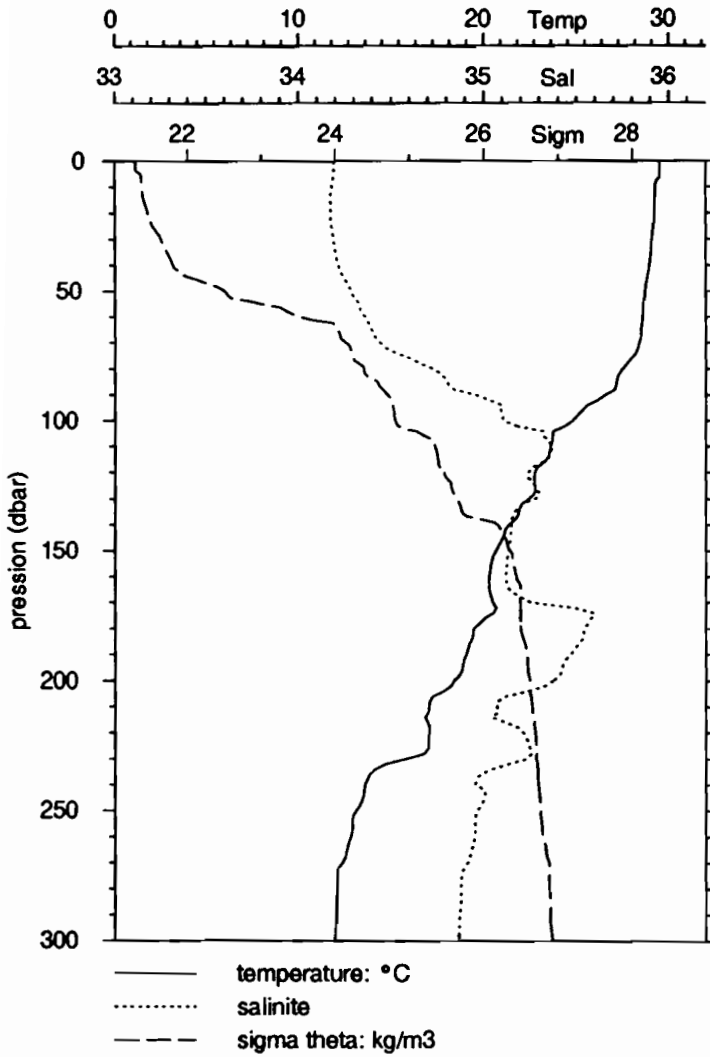
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
121	23.23	34.67			
140	21.82	34.61			
160	20.37	35.01			
180	19.77	35.06			
190	18.88	34.63			
200	17.09	34.75			
221	14.15	34.25			
241	12.93	34.59			
260	12.11	34.85			
281	12.03	34.72			
301	11.46	34.82			
1000	4.75	34.54			

# EQUALIS -station 122

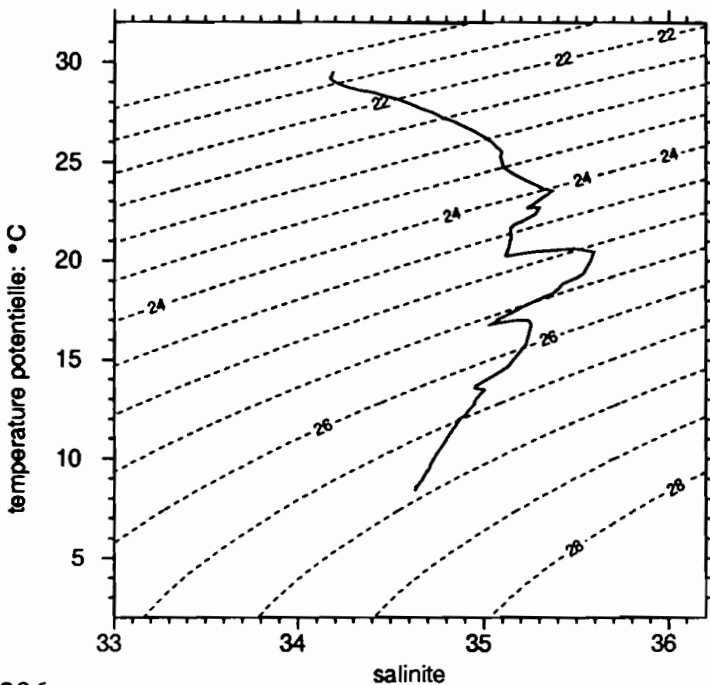
1°30 S 156°15 E

21/11/92, 8h 0 TU

21/11/92, 18h 0 locale



	P	T	S
debut	6.0	29.518	34.191
fin	500.0	8.470	34.632



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.265	34.180		
20.0	29.206	34.173		
30.0	29.076	34.190		
40.0	28.940	34.216		
50.0	28.709	34.285		
75.0	28.059	34.566		
100.0	24.761	35.104		
125.0	22.736	35.274		
150.0	20.626	35.130		
200.0	18.397	35.371		
250.0	13.106	34.963		
300.0	11.959	34.865		
400.0	10.147	34.738		
500.0	8.470	34.632		

# EQUALIS - station122

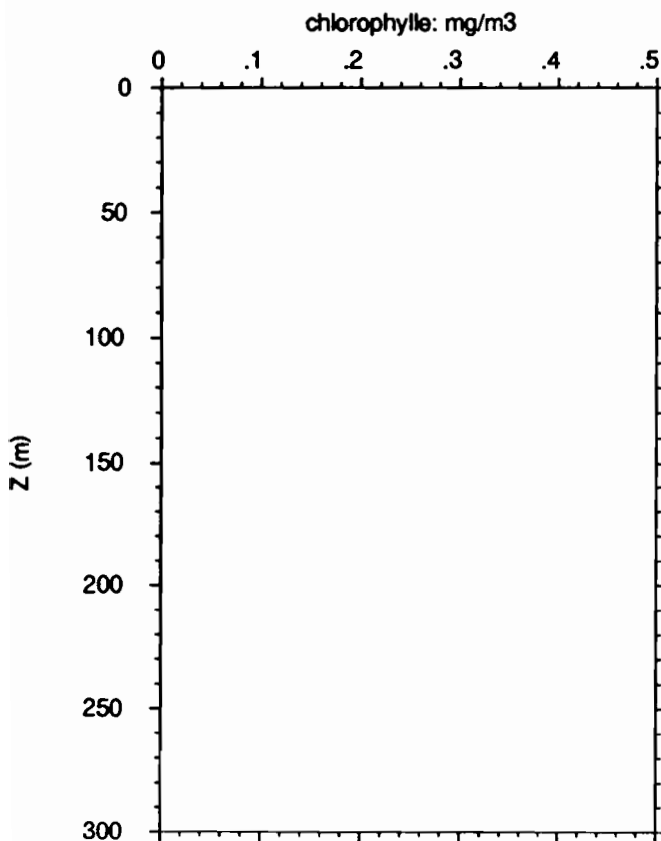
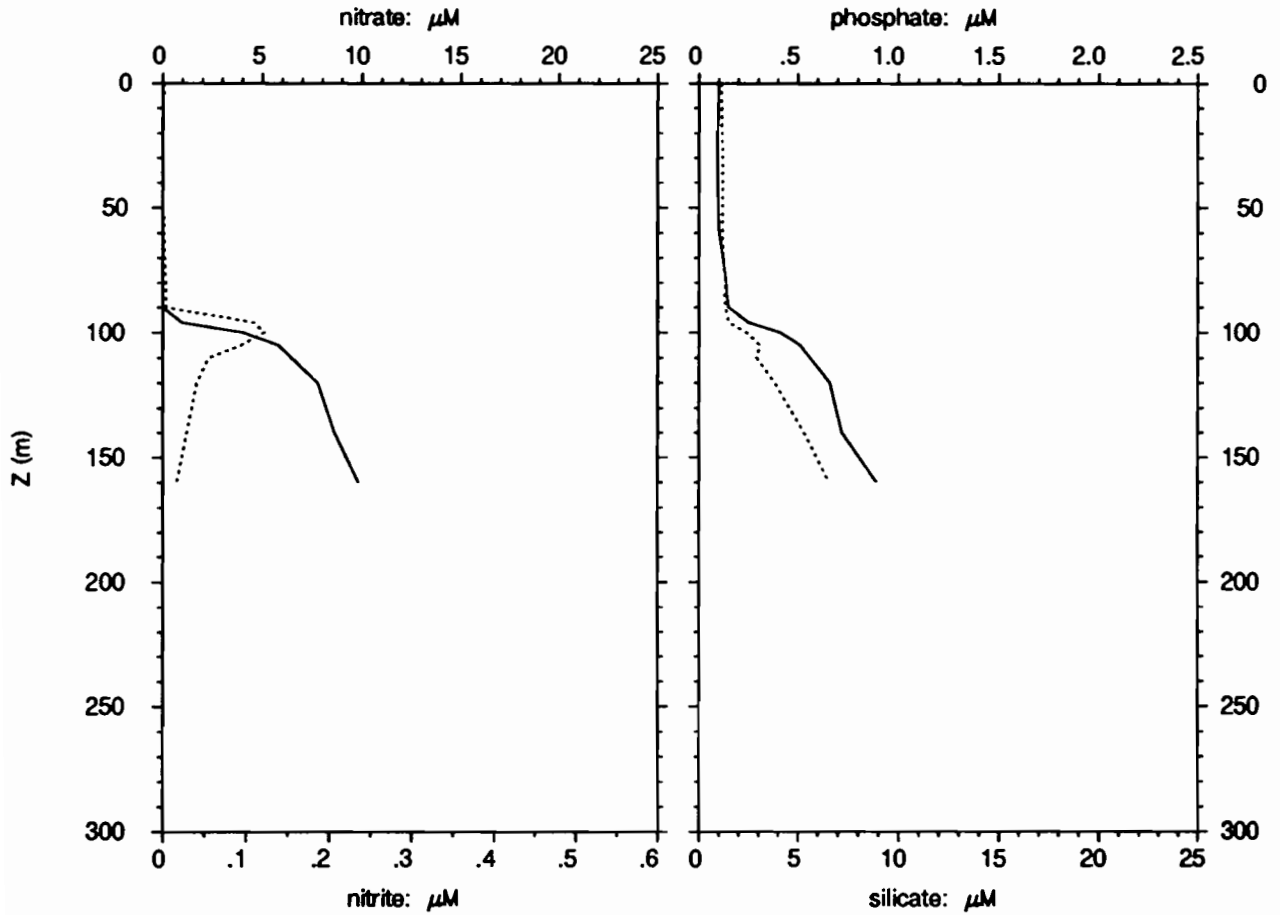
1°30 S 156°15 E

21/11/92, 8h 0 TU

21/11/92, 18h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.007	0.002	0.10	1.1
30	0.002	0.000	0.09	1.2
59	0.003	0.002	0.10	1.2
81	0.000	0.004	0.14	1.3
85	0.001	0.004	0.14	1.3
90	0.002	0.004	0.15	1.3
96	0.966	0.110	0.25	1.5
100	4.04	0.122	0.41	2.4
105	5.80	0.094	0.51	3.1
110	6.44	0.055	0.56	2.9
120	7.77	0.041	0.66	3.8
140	8.62	0.029	0.72	5.3
160	9.82	0.017	0.89	6.6

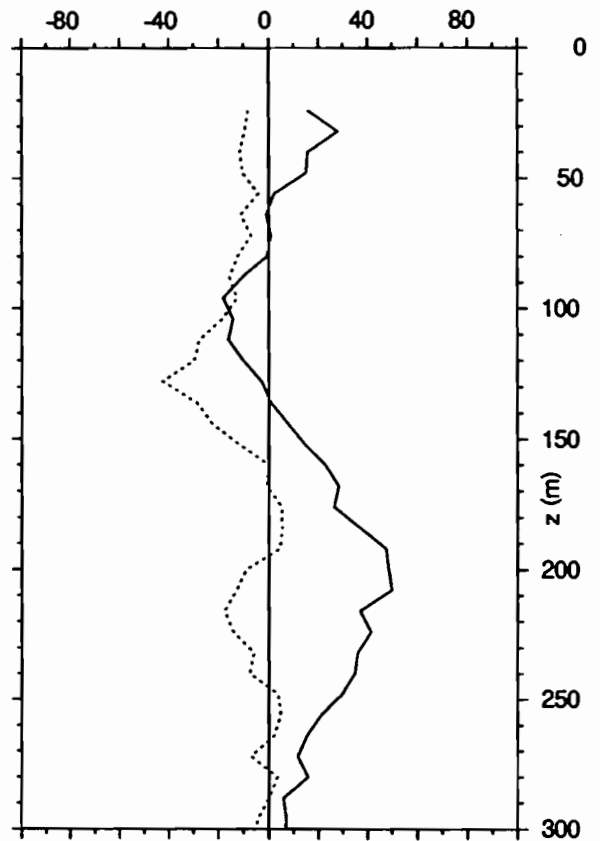
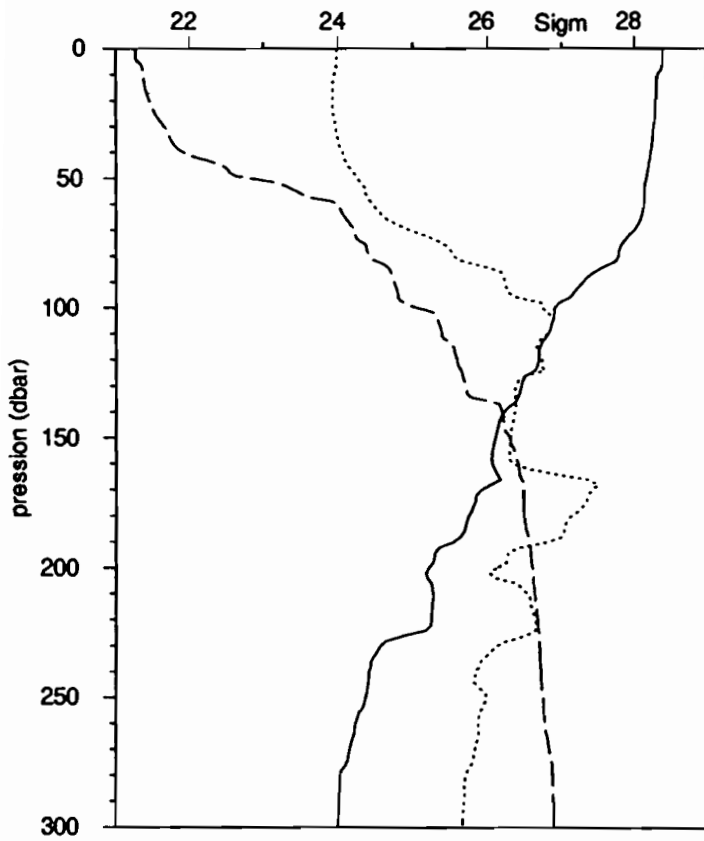
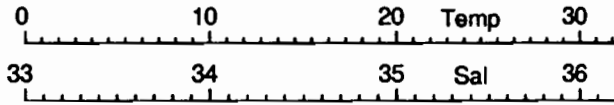
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.92	34.23			
30	29.09	34.18			
59	28.56	34.19			
81	27.22	34.70			
85	27.13	34.55			
90	26.85	34.40			
96	25.54	34.83			
100	25.05	34.67			
105	24.35	34.83			
110	23.64	35.06			
120	22.80	34.62			
140	21.41	34.98			
160	20.33	35.10			

# EQUALIS -station 123

1° 30 S 156° 15 E

21/11/92, 10h 7 TU

21/11/92, 20h 7 locale

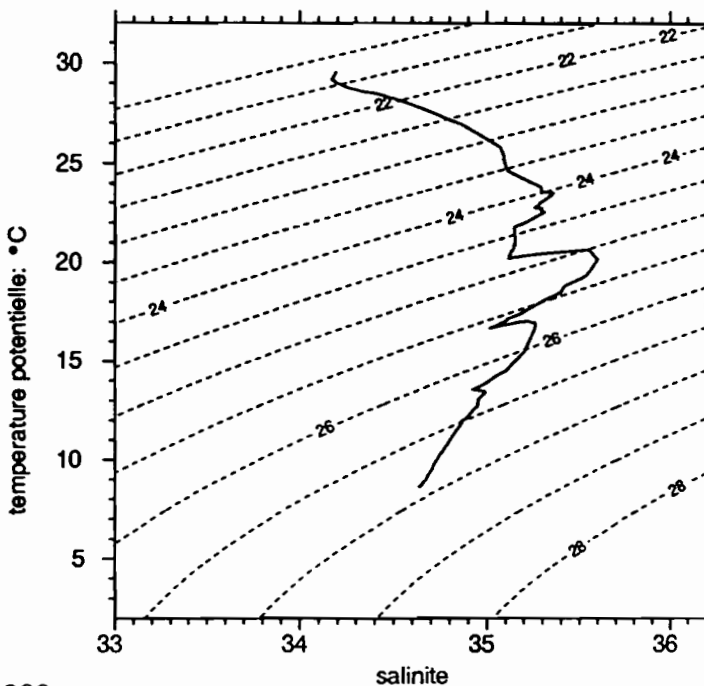


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.576	34.194
fin	502.0	8.661	34.639

	Z	U	V
debut	24.0	15.9	-8.2
fin	336.0	-2.2	0.1



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.311	34.180		
20.0	29.188	34.171		
30.0	29.084	34.188	24.9	-9.2
40.0	28.902	34.224	15.7	-11.5
50.0	28.678	34.301	11.8	-8.8
75.0	27.370	34.753	0.3	-9.0
100.0	23.618	35.297	-16.1	-15.4
125.0	22.314	35.258	-5.5	-37.7
150.0	20.434	35.125	12.8	-14.5
200.0	16.831	35.045	48.6	-9.0
250.0	13.456	34.992	27.5	4.1
300.0	11.979	34.866	6.8	-5.1
400.0	10.251	34.744		
500.0	8.675	34.639		

# EQUALIS - station123

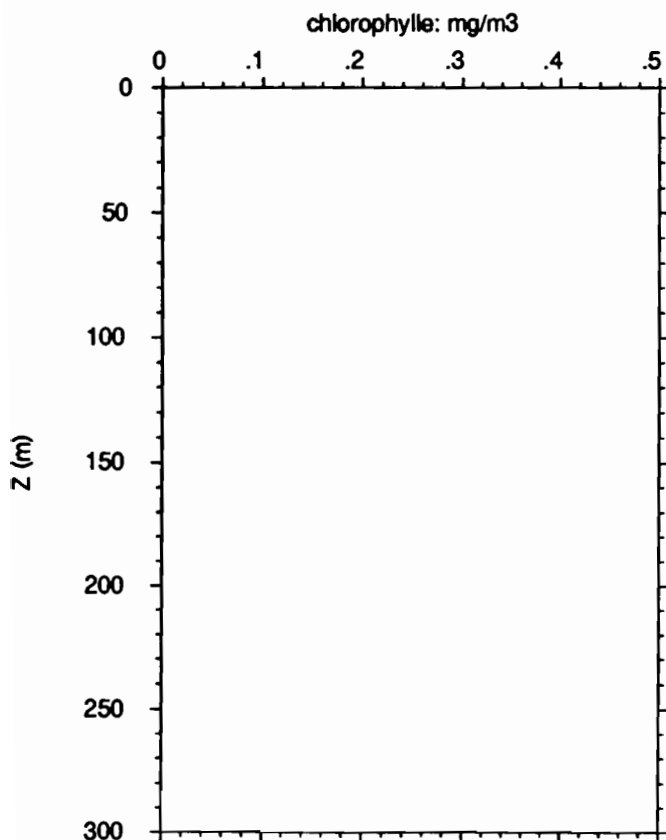
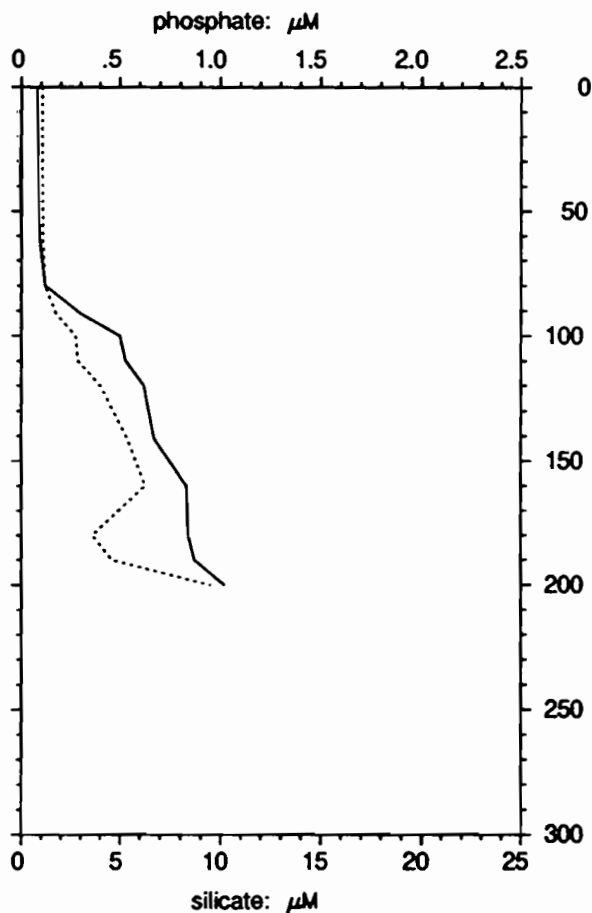
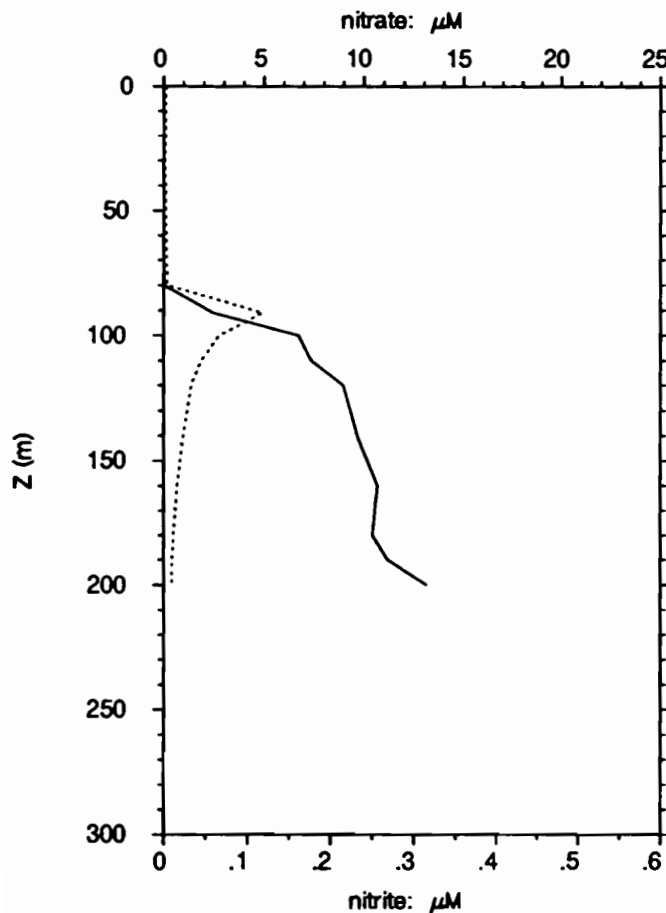
1°30 S 156°15 E

21/11/92, 10h 7 TU

21/11/92, 20h 7 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.003	0.08	1.1
30	0.000	0.002	0.08	1.1
60	0.000	0.003	0.09	1.1
80	0.004	0.004	0.12	1.2
91	2.46	0.118	0.30	1.8
100	6.73	0.066	0.50	2.8
110	7.36	0.045	0.53	2.9
120	8.97	0.033	0.62	4.0
141	9.71	0.023	0.67	5.4
160	10.68	0.016	0.83	6.3
180	10.44	0.012	0.84	3.6
190	11.19	0.010	0.87	4.6
200	13.14	0.010	1.02	9.5

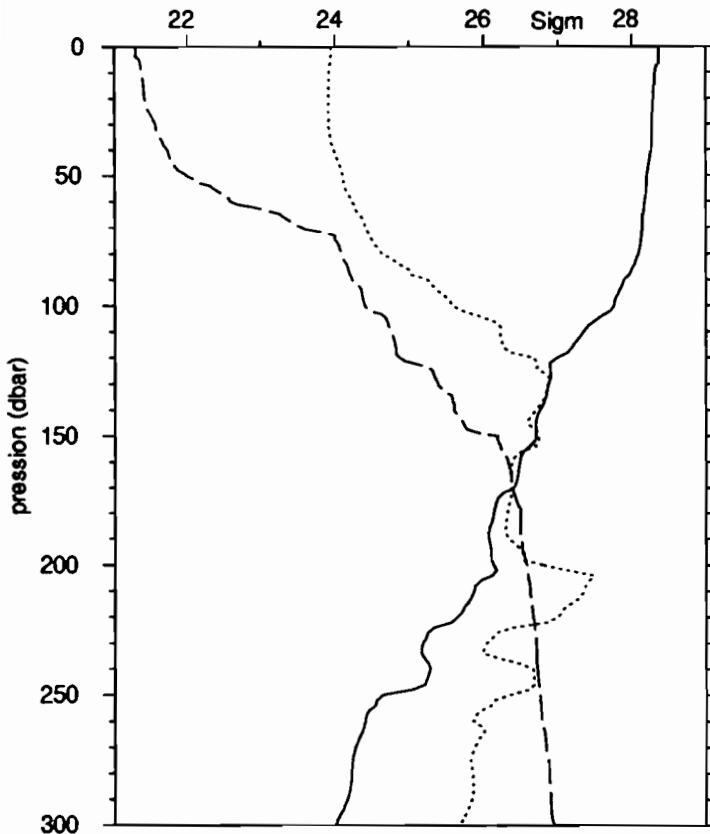
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.73	34.23			
30	29.14	34.15			
60	28.55	34.12			
80	27.03	34.29			
91	25.26	34.42			
100	23.72	35.22			
110	23.41	34.73			
120	22.77	34.68			
141	20.86	34.98			
160	20.27	35.06			
180	19.06	34.75			
190	18.70	34.10			
200	17.18	35.08			

# EQUALIS -station 124

21/11/92, 13h 1 TU

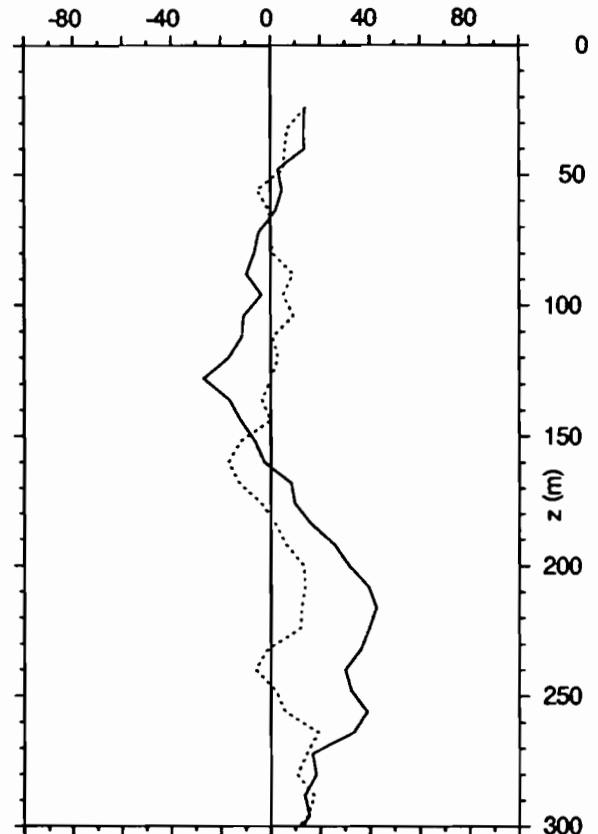
1°30 S 156°15 E

21/11/92, 23h 1 locale



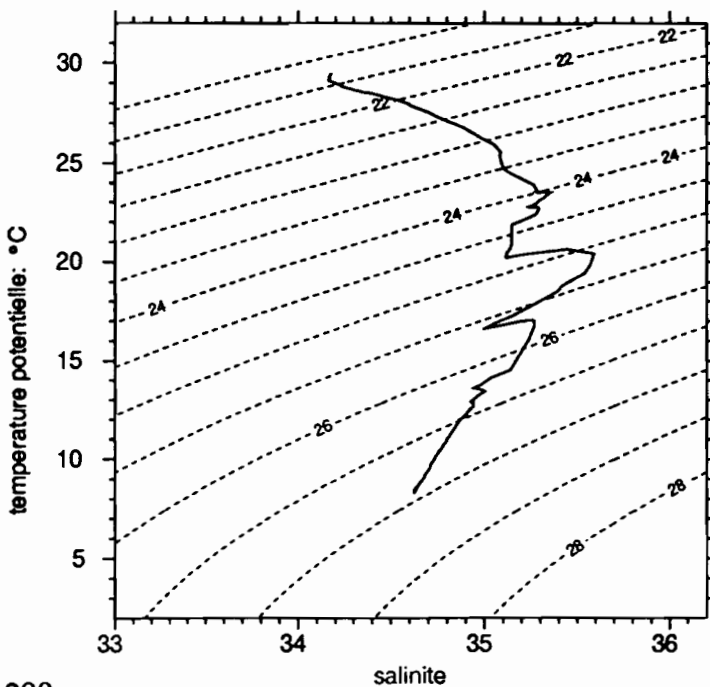
— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.471	34.178
fin	500.0	8.331	34.622



— composante zonale: cm/s  
- - - composante meridienne: cm/s

	Z	U	V
debut	24.0	14.0	14.2
fin	336.0	-2.2	0.1



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.271	34.168		
20.0	29.168	34.167		
30.0	29.108	34.167	13.5	8.7
40.0	29.033	34.192	13.7	5.9
50.0	28.813	34.242	3.4	2.6
75.0	28.485	34.403	-5.5	2.6
100.0	27.041	34.829	-7.2	7.1
125.0	23.562	35.305	-23.2	1.3
150.0	22.776	35.290	-7.7	-9.1
200.0	20.532	35.318	31.7	13.5
250.0	14.566	35.140	34.1	3.0
300.0	12.081	34.876	12.9	11.4
400.0	10.261	34.745		
500.0	8.331	34.622		

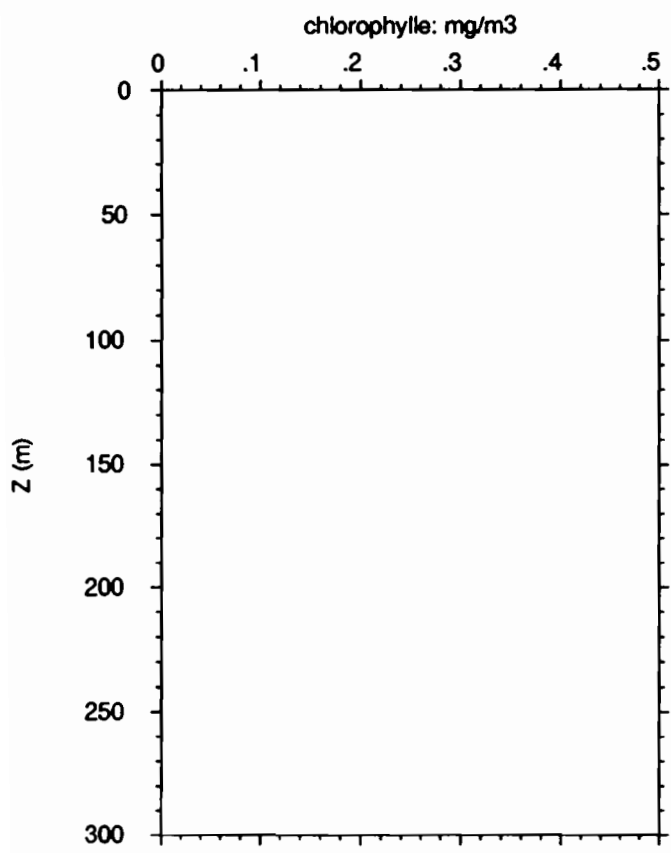
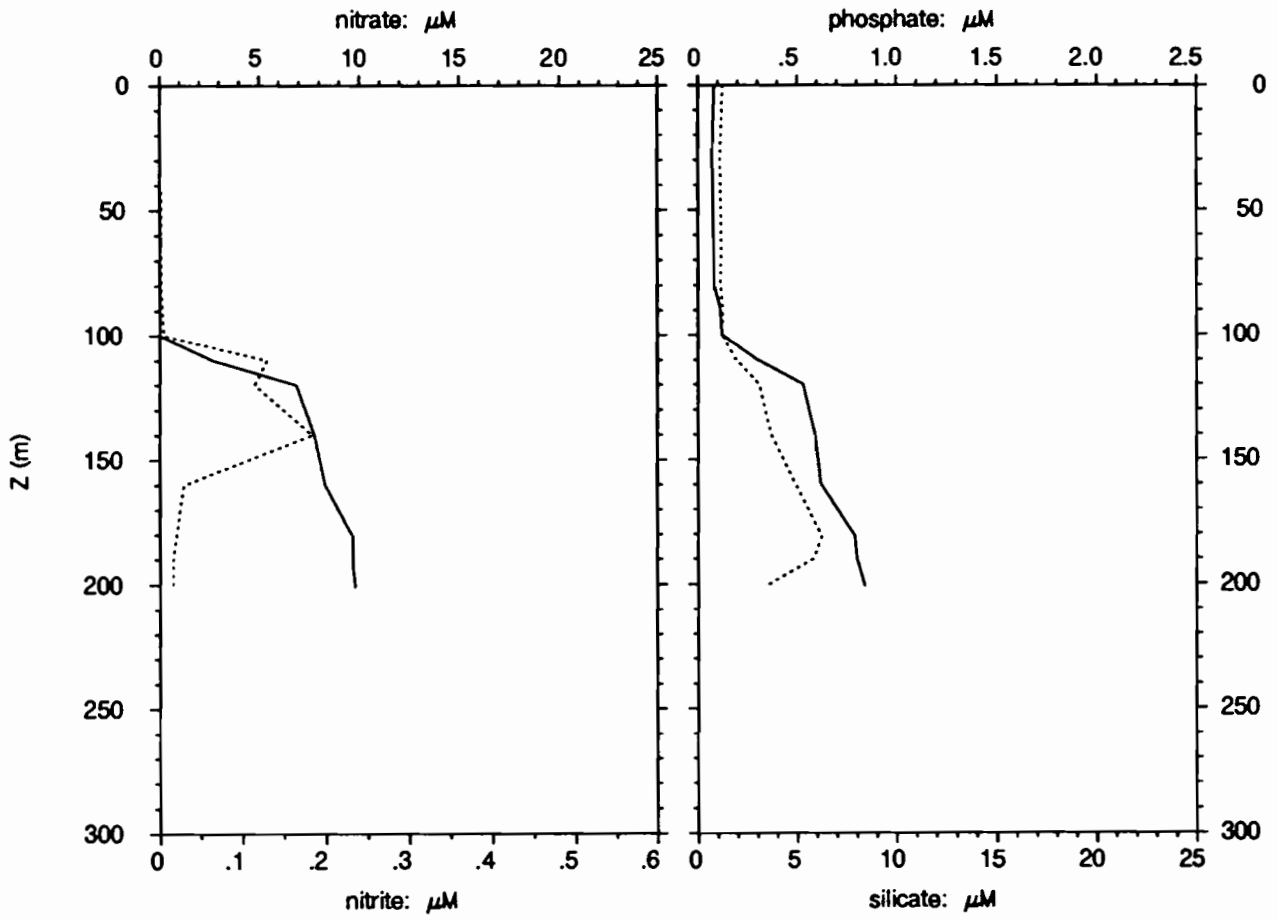
# EQUALIS - station124

1°30 S 156°15 E

21/11/92, 13h 1 TU

21/11/92, 23h 1 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.004	0.001	0.08	1.2
29	0.003	0.001	0.07	1.1
60	0.003	0.002	0.08	1.2
80	0.001	0.002	0.08	1.1
89	0.001	0.003	0.11	1.2
100	0.001	0.005	0.12	1.2
110	2.70	0.130	0.30	1.9
120	6.88	0.115	0.53	3.1
140	7.77	0.184	0.59	3.7
160	8.29	0.029	0.62	4.9
181	9.67	0.020	0.79	6.2
190	9.64	0.016	0.80	5.8
201	9.78	0.016	0.84	3.4

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.58	34.21			
29	29.10	34.17			
60	28.65	34.30			
80	28.36	34.25			
89	27.62	34.50			
100	27.01	34.41			
110	25.12	34.35			
120	23.57	35.08			
140	22.86	34.93			
160	21.86	34.90			
181	20.33	35.11			
190	20.40	35.05			
201	19.58	35.52			

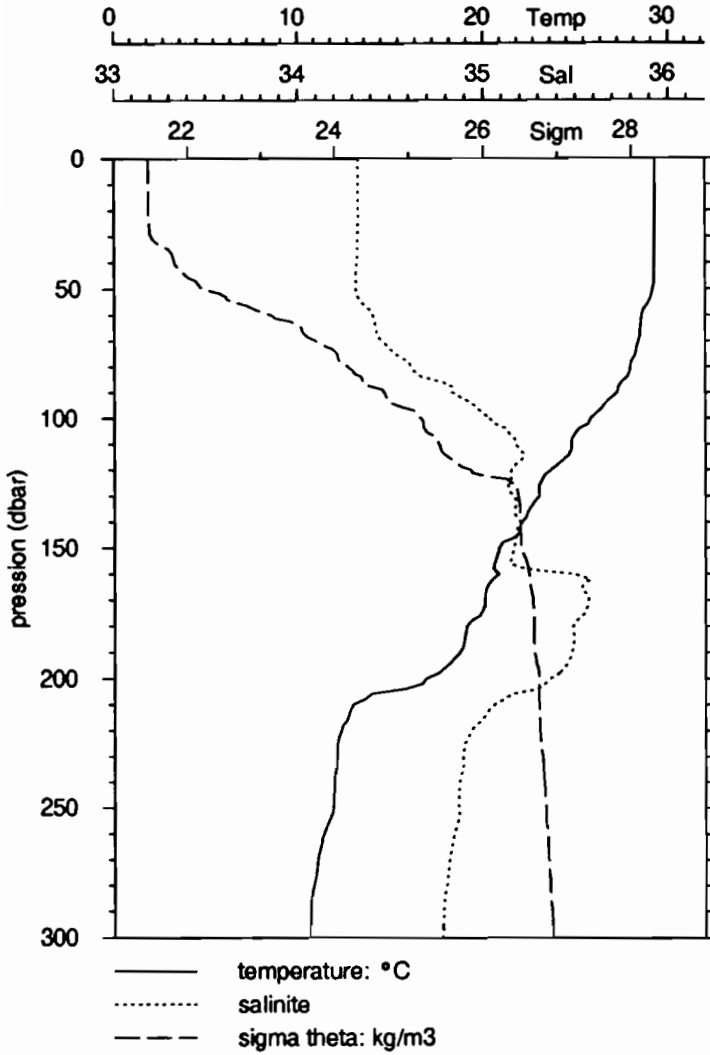


# EQUALIS -station 125

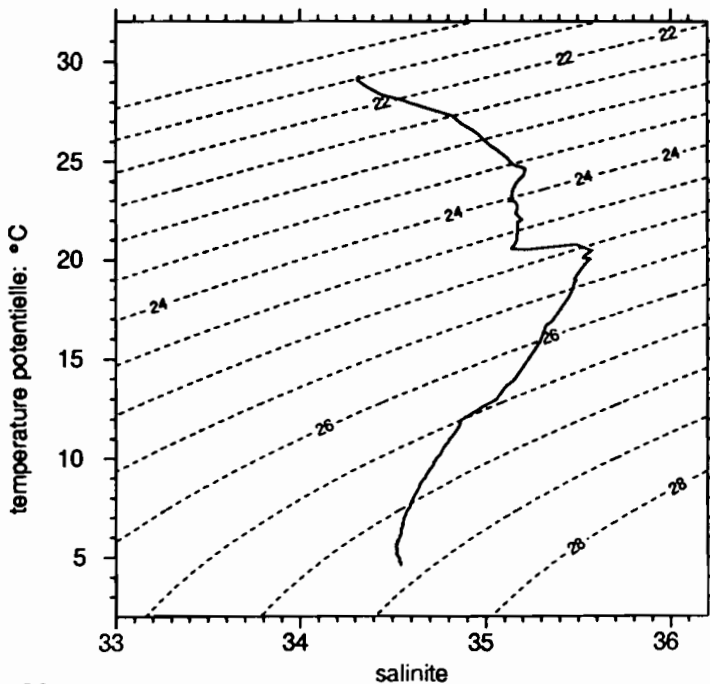
26/11/92, 19h14 TU

1°45 S 156°10 E

27/11/92, 5h14 locale



	P	T	S
debut	4.0	29.288	34.327
fin	998.0	4.680	34.543



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.290	34.326		
20.0	29.286	34.326		
30.0	29.290	34.324		
40.0	29.272	34.321		
50.0	29.155	34.315		
75.0	28.191	34.526		
100.0	25.779	35.034		
125.0	23.062	35.141		
150.0	20.850	35.163		
200.0	16.875	35.358		
250.0	11.916	34.863		
300.0	10.617	34.778		
400.0	9.467	34.700		
500.0	8.390	34.631		
600.0	6.721	34.556		
700.0	6.172	34.544		
800.0	5.632	34.525		
900.0	4.933	34.537		

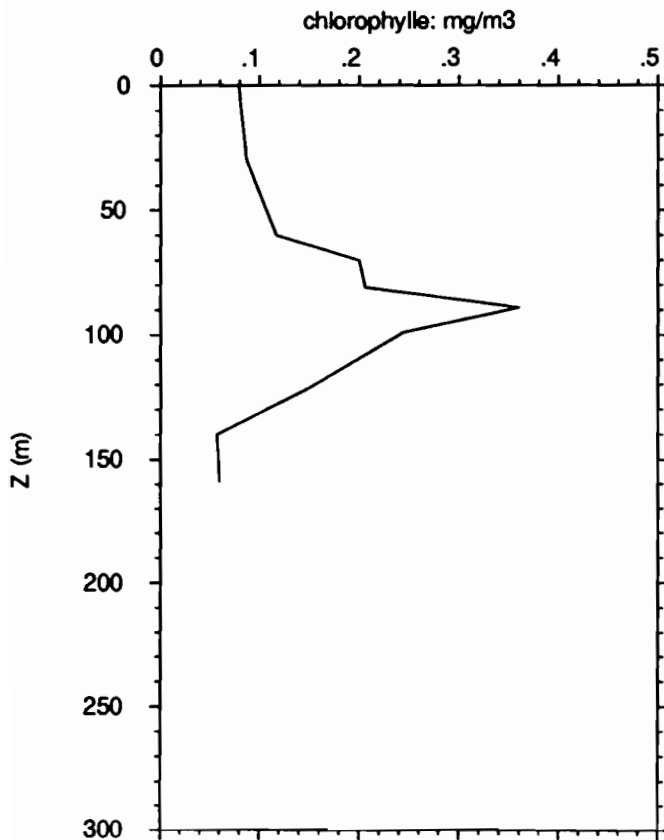
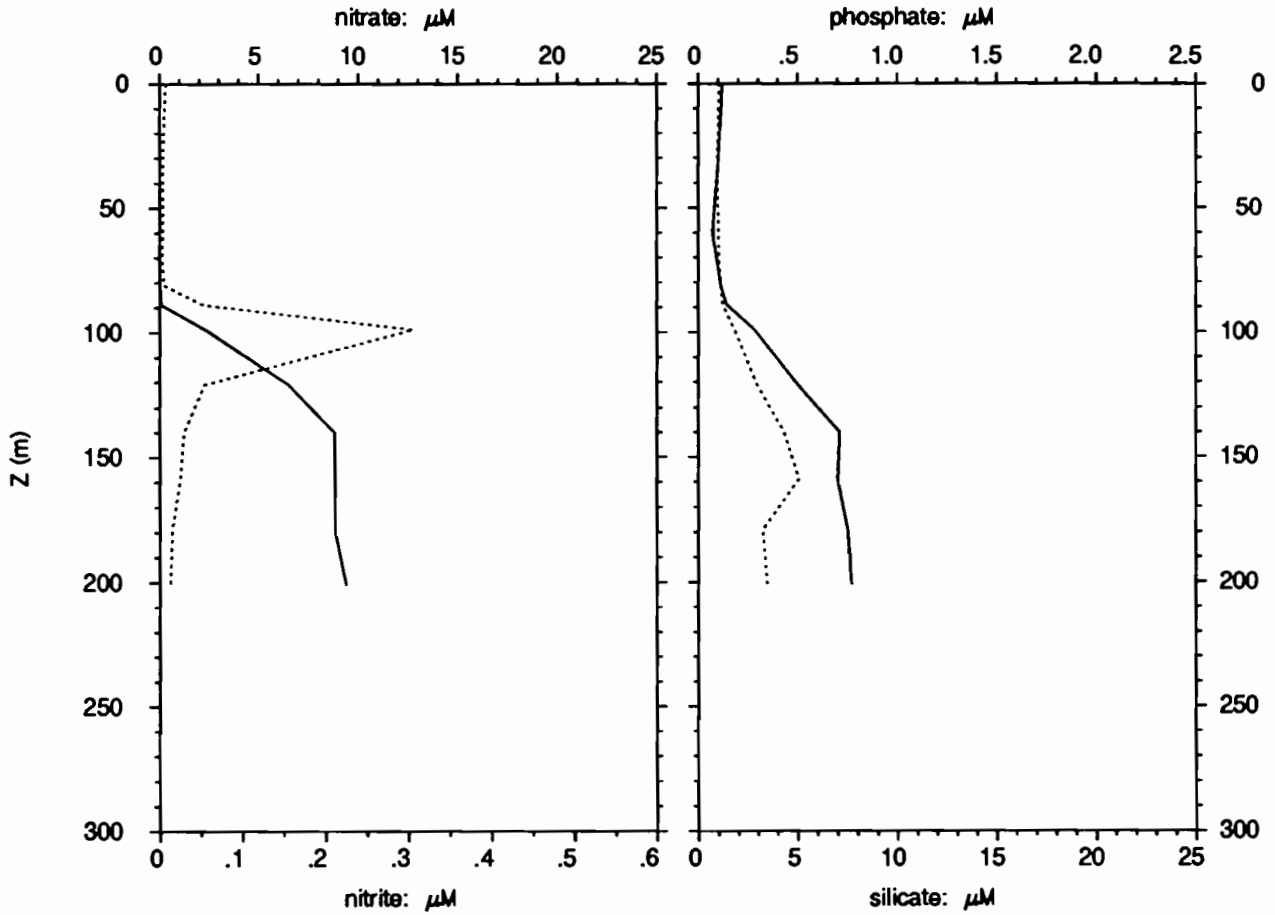
# EQUALIS - station125

1°45 S 156°10 E

26/11/92, 19h14 TU

27/11/92, 5h14 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.007	0.12	1.0
30	0.000	0.004	0.10	1.0
60	0.000	0.004	0.07	1.0
70	0.000	0.003	0.09	1.0
81	0.001	0.005	0.11	1.1
89	0.100	0.053	0.14	1.2
99	2.33	0.306	0.28	1.8
121	6.51	0.054	0.50	2.9
140	8.79	0.029	0.71	4.3
159	8.79	0.025	0.70	5.1
179	8.82	0.015	0.75	3.3
201	9.38	0.013	0.77	3.5
999	27.83	0.007	2.31	56.4

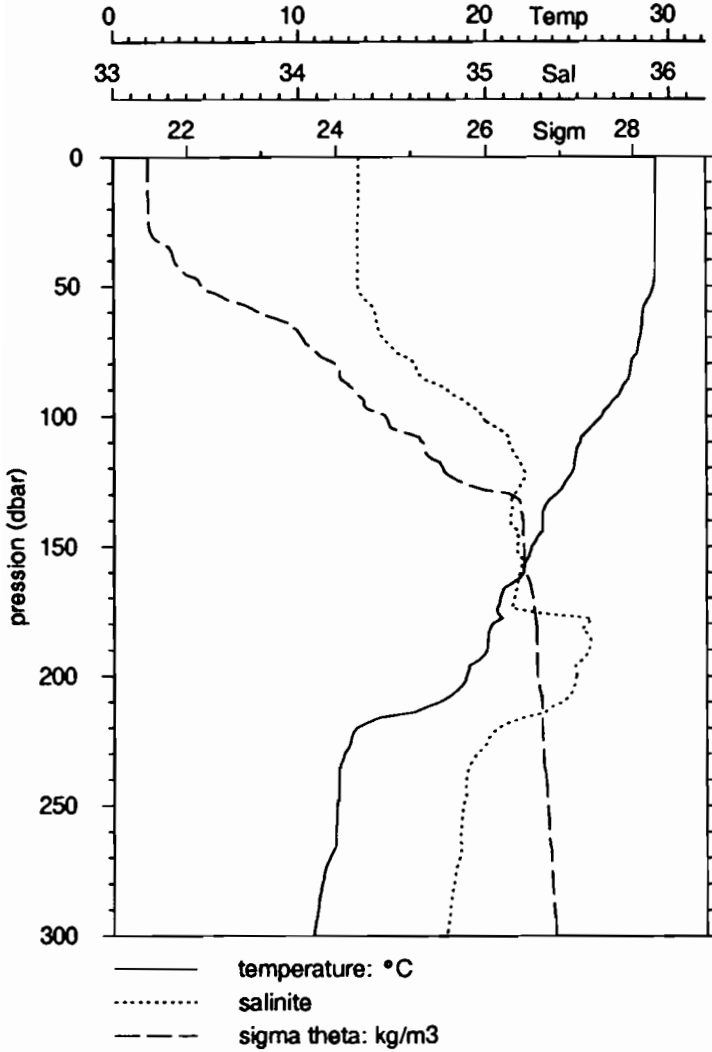
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.38	34.35	0.079	0.074	48.34
30	29.27	34.27	0.087	0.082	48.30
60	28.47	34.32	0.117	0.248	67.98
70	28.06	34.34	0.200	0.256	56.13
81	27.35	34.58	0.206	0.431	67.71
89	36.52	34.47	0.360	0.521	59.14
99	25.65	34.80	0.244	0.513	67.77
121	24.09	34.45	0.151	0.310	67.23
140	22.64	34.76	0.057	0.199	77.61
159	20.90	35.07	0.060	0.152	71.60
179	20.19	34.94			
201	19.06	35.45			
999	4.68	34.54			

# EQUALIS -station 127

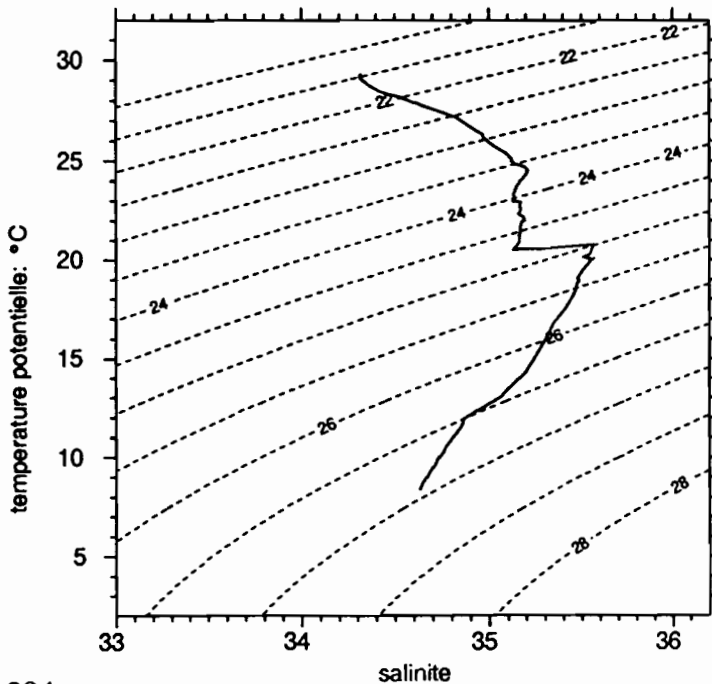
1°45 S 156°10 E

26/11/92, 20h36 TU

27/11/92, 6h36 locale



	P	T	S
debut	6.0	29.272	34.320
fin	500.0	8.418	34.630



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.272	34.320		
20.0	29.266	34.318		
30.0	29.243	34.313		
40.0	29.241	34.313		
50.0	29.116	34.314		
75.0	28.225	34.514		
100.0	26.218	34.972		
125.0	24.288	35.194		
150.0	22.394	35.161		
200.0	18.923	35.485		
250.0	12.002	34.874		
300.0	10.748	34.785		
400.0	9.633	34.711		
500.0	8.418	34.630		

# EQUALIS - station127

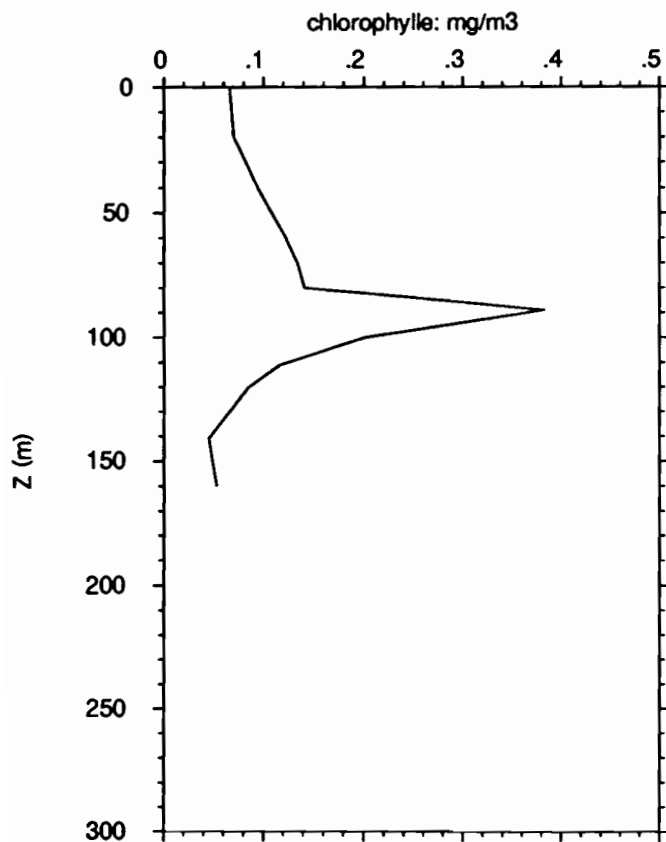
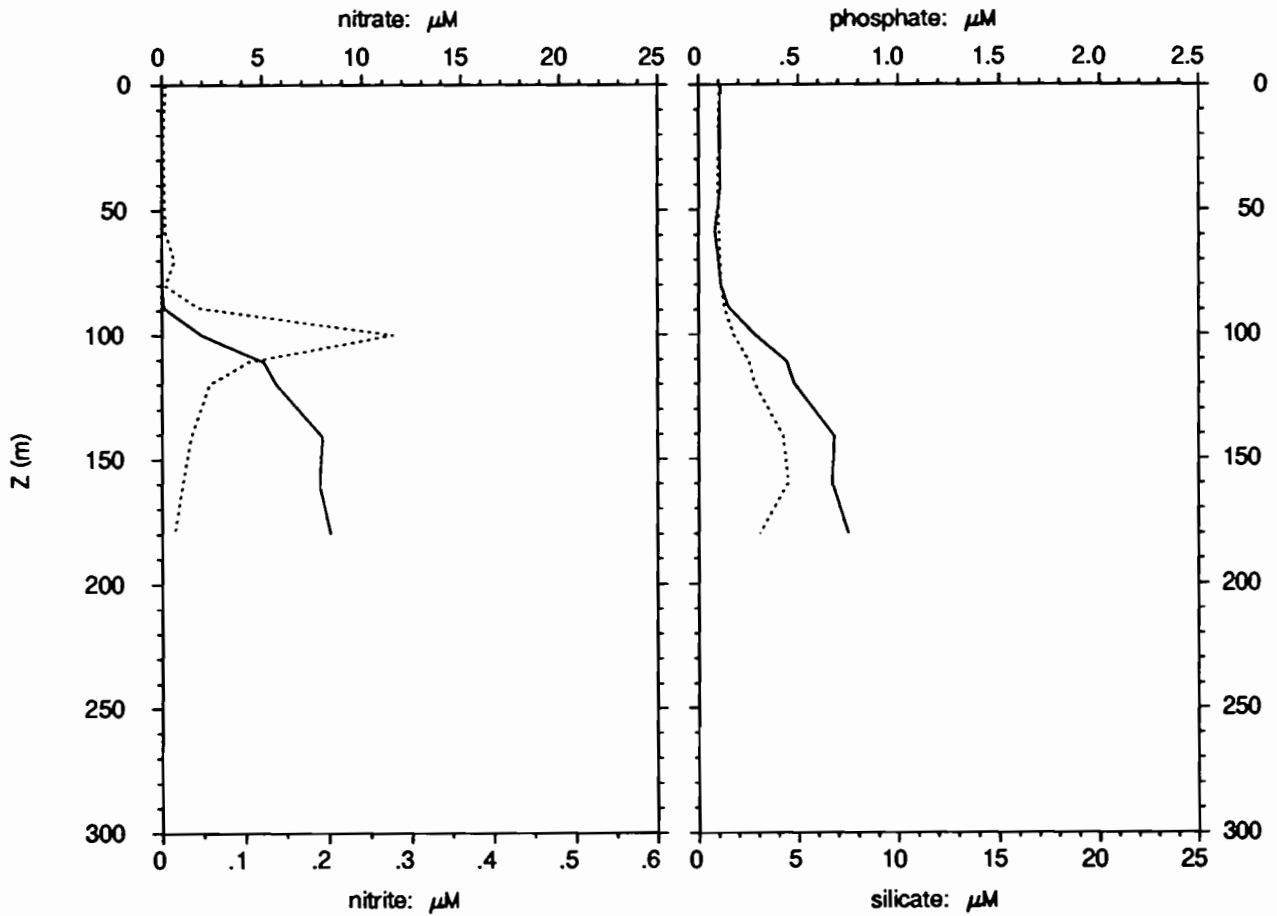
1°45 S 156°10 E

26/11/92, 20h36 TU

27/11/92, 6h36 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.000	0.005	0.11	1.0
20	0.000	0.002	0.10	1.0
40	0.001	0.003	0.11	1.0
59	0.000	0.004	0.08	1.0
70	0.002	0.015	0.10	1.1
80	0.001	0.004	0.11	1.1
89	0.102	0.044	0.15	1.3
100	2.00	0.277	0.28	1.7
111	5.11	0.103	0.44	2.5
120	5.74	0.057	0.48	2.8
141	8.02	0.035	0.68	4.2
160	7.88	0.025	0.67	4.5
180	8.43	0.015	0.75	3.1

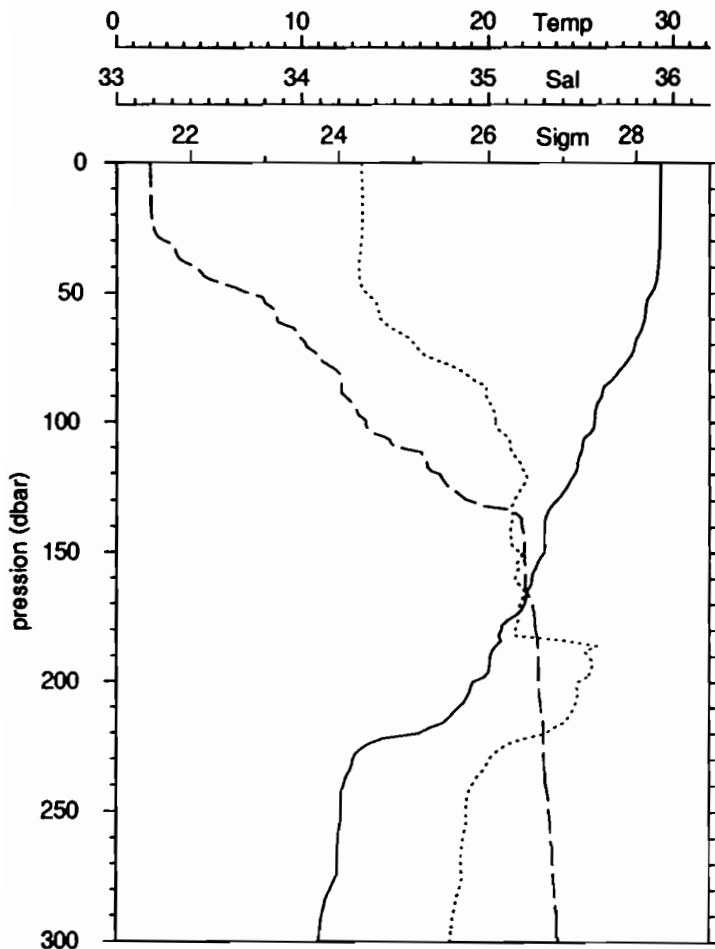
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.39	34.35	0.066	0.070	51.29
20	29.29	34.31	0.070	0.076	51.90
40	29.20	34.23	0.094	0.090	49.13
59	28.47	34.31	0.121	0.159	56.81
70	28.04	34.45	0.134	0.219	62.00
80	27.60	34.39	0.141	0.309	68.64
89	26.64	34.49	0.383	0.670	63.64
100	25.66	34.69	0.201	0.670	76.95
111	24.78	34.89	0.117	0.427	78.52
120	24.27	34.79	0.085	0.321	79.00
141	23.01	34.86	0.045	0.218	82.87
160	21.99	34.81	0.053	0.155	74.37
180	20.27	35.51			

# EQUALIS -station 128

26/11/92, 22h 2 TU

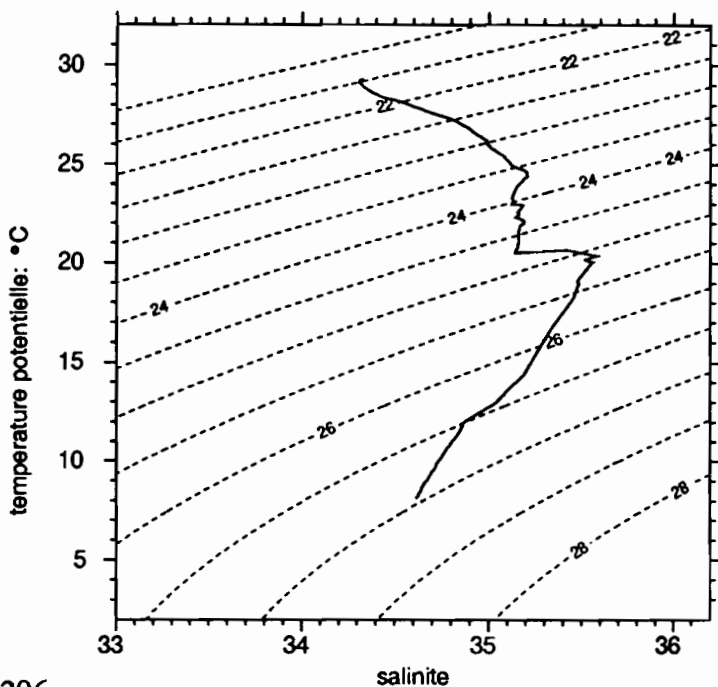
1°45 S 156°10 E

27/11/92, 8h 2 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	4.0	29.305	34.321
fin	502.0	8.180	34.616



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.308	34.325		
20.0	29.311	34.326		
30.0	29.277	34.320		
40.0	29.179	34.308		
50.0	28.813	34.348		
75.0	27.626	34.689		
100.0	25.697	35.037		
125.0	24.199	35.179		
150.0	22.993	35.183		
200.0	19.187	35.480		
250.0	12.114	34.881		
300.0	10.944	34.799		
400.0	9.782	34.721		
500.0	8.224	34.619		

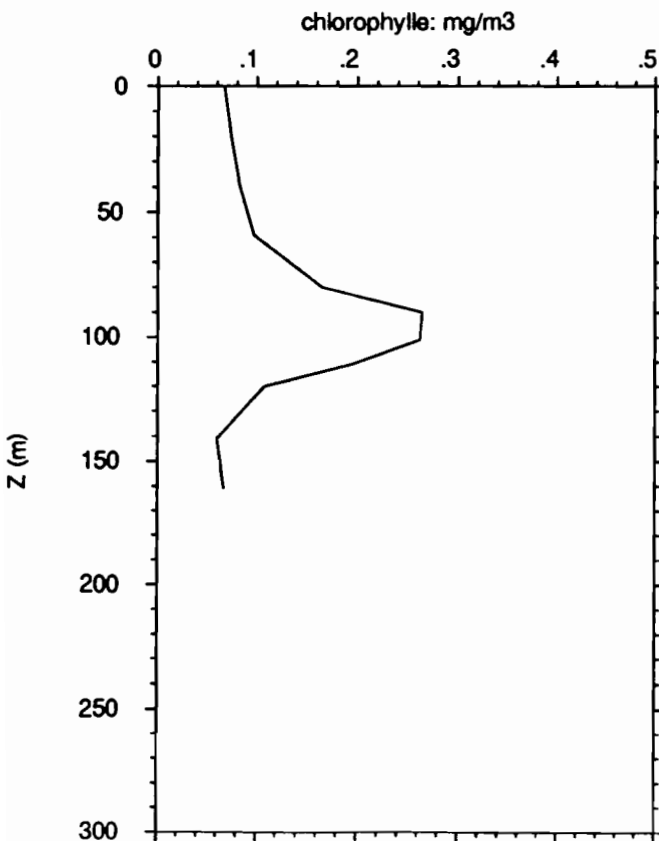
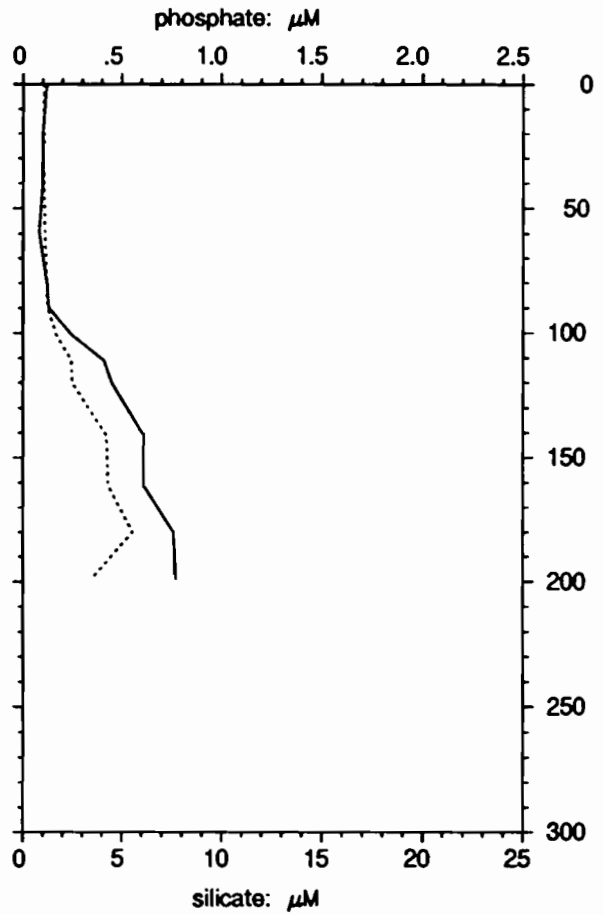
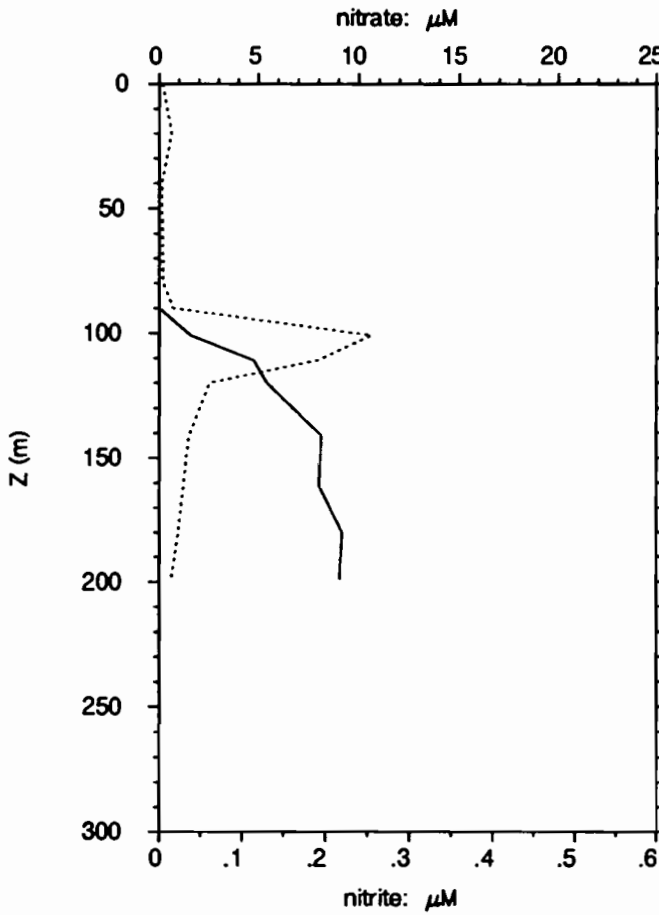
# EQUALIS - station128

1° 45 S 156° 10 E

26/11/92, 22h 2 TU

27/11/92, 8h 2 locale

— nitrate                      — phosphate  
 ..... nitrite                      ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.004	0.12	1.1
20	0.001	0.015	0.10	1.1
40	0.003	0.003	0.10	1.1
59	0.001	0.004	0.08	1.1
80	0.000	0.005	0.12	1.2
90	0.009	0.017	0.13	1.2
101	1.59	0.255	0.25	1.7
111	4.77	0.191	0.41	2.5
120	5.42	0.061	0.45	2.5
141	8.14	0.036	0.61	4.2
161	8.01	0.029	0.61	4.3
180	9.16	0.023	0.76	5.6
199	9.06	0.014	0.77	3.5

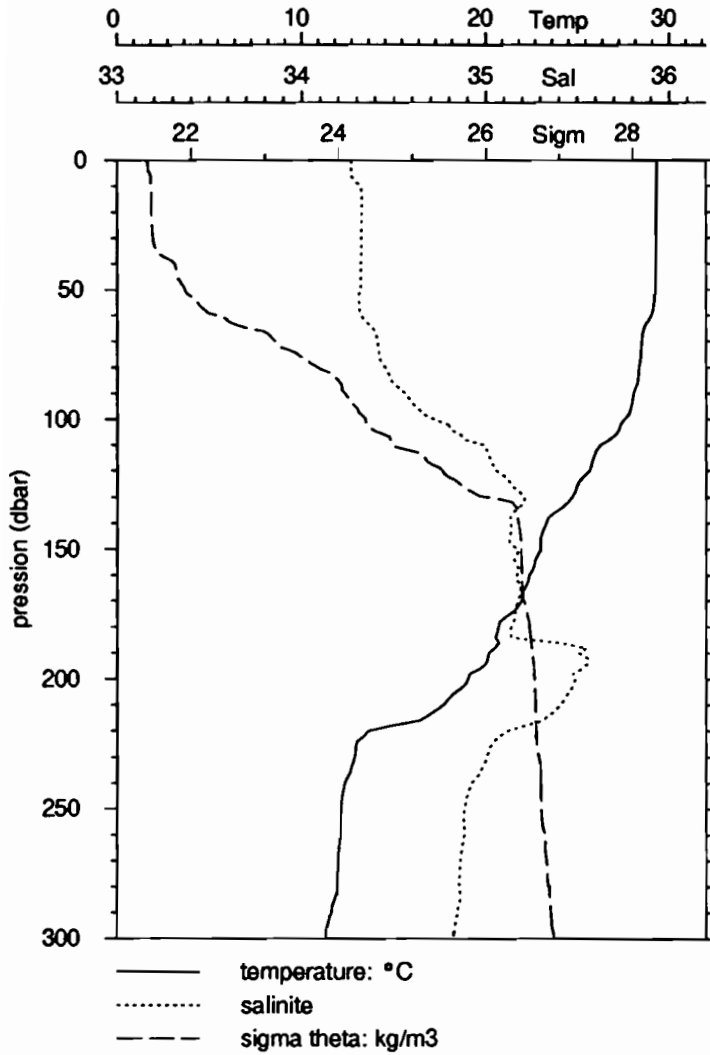
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.41	34.35	0.067	0.090	57.29
20	29.32	34.33	0.074	0.068	47.93
40	29.21	34.28	0.083	0.082	49.75
59	28.55	34.38	0.097	0.123	55.78
80	27.81	34.51	0.165	0.211	56.17
90	26.95	34.56	0.264	0.762	74.26
101	25.76	34.73	0.262	0.683	72.28
111	25.01	34.92	0.195	0.342	63.73
120	24.33	34.95	0.108	0.352	76.61
141	23.01	35.01	0.060	0.203	77.16
161	22.12	34.55	0.067	0.117	63.67
180	20.69	34.87			
199	18.94	35.46			

# EQUALIS -station 129

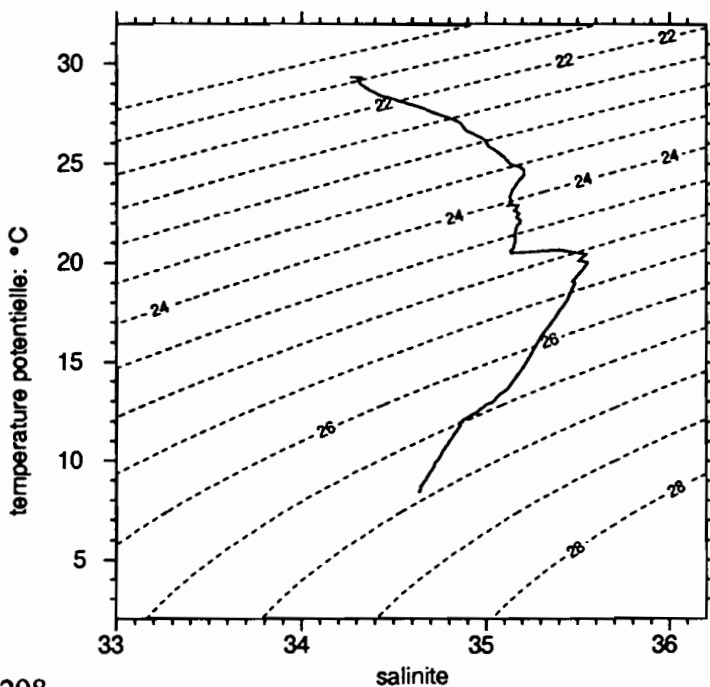
1°45 S 156°10 E

27/11/92, 1h 3 TU

27/11/92, 11h 3 locale



	P	T	S
debut	6.0	29.317	34.266
fin	500.0	8.460	34.635



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.327	34.320		
20.0	29.313	34.325		
30.0	29.296	34.323		
40.0	29.270	34.320		
50.0	29.228	34.317		
75.0	28.453	34.417		
100.0	27.542	34.718		
125.0	25.013	35.135		
150.0	22.979	35.176		
200.0	19.008	35.487		
250.0	12.113	34.880		
300.0	11.265	34.820		
400.0	10.040	34.732		
500.0	8.460	34.635		

# EQUALIS - station129

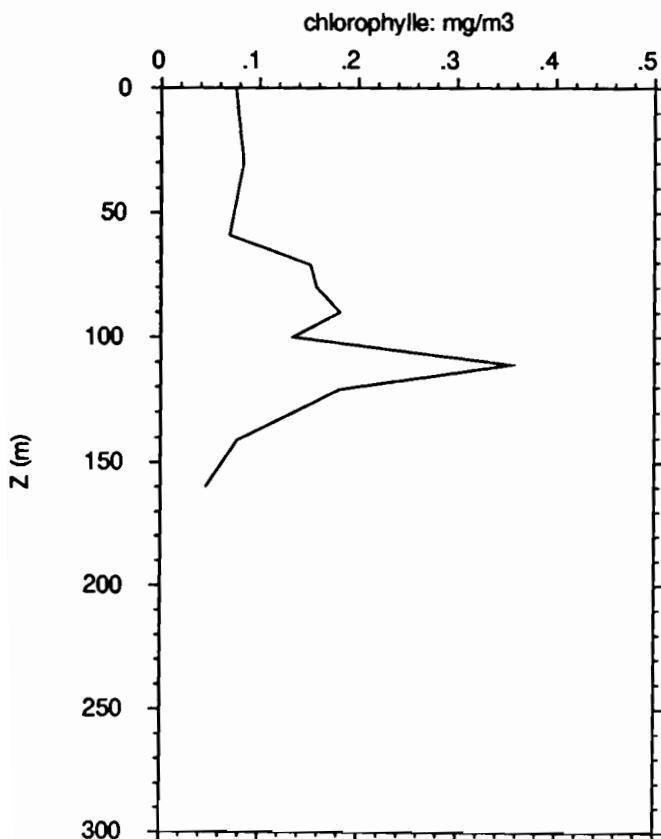
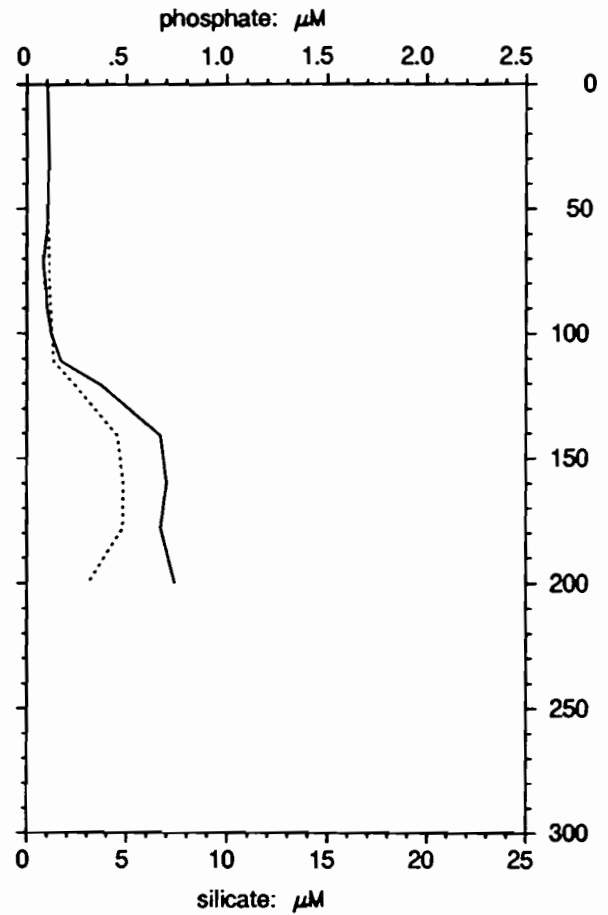
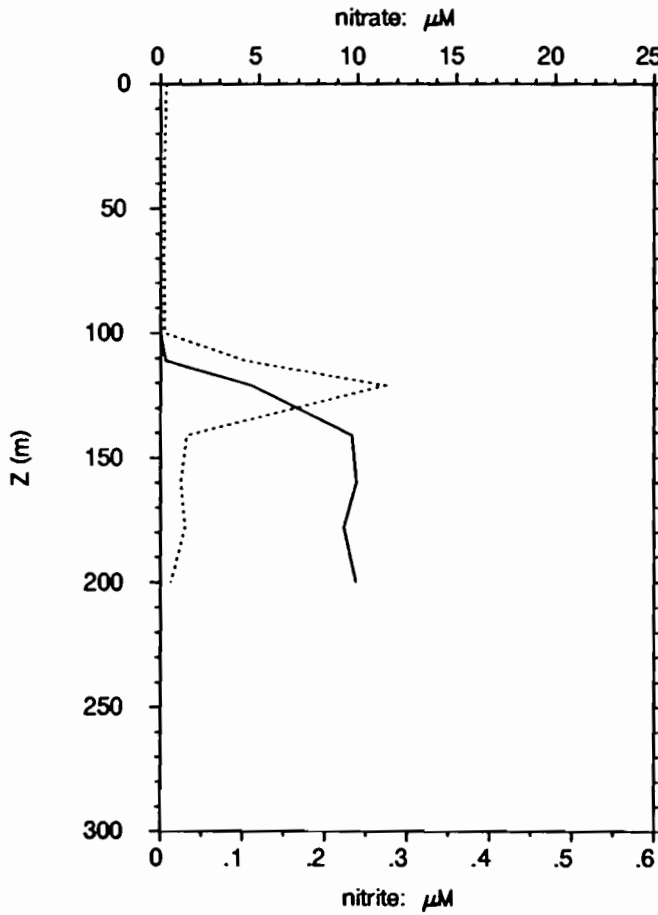
1° 45 S 156° 10 E

27/11/92, 1h 3 TU

27/11/92, 11h 3 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.007	0.10	1.1
30	0.000	0.005	0.11	1.1
59	0.000	0.005	0.10	1.1
71	0.001	0.004	0.08	1.1
80	0.001	0.005	0.09	1.1
90	0.003	0.005	0.10	1.2
100	0.001	0.005	0.12	1.2
111	0.269	0.103	0.17	1.3
121	4.65	0.273	0.38	2.4
141	9.72	0.032	0.67	4.6
160	9.93	0.025	0.70	4.8
178	9.31	0.030	0.67	4.8
200	9.92	0.013	0.74	3.1

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.43	34.30	0.076	0.011	12.85
30	29.29	34.32	0.084	0.017	16.77
59	29.15	34.08	0.070	0.062	46.75
71	28.55	34.37	0.152	0.069	31.35
80	28.38	34.44	0.158	0.150	48.75
90	28.16	34.44	0.182	0.185	50.36
100	27.45	34.33	0.134	0.242	64.36
111	26.22	34.70	0.355	0.317	47.18
121	25.53	35.05	0.181	0.256	58.59
141	23.12	35.12	0.078	0.134	63.28
160	22.34	34.96	0.046	0.100	68.52
178	19.87	34.94			
200	19.87	35.51			

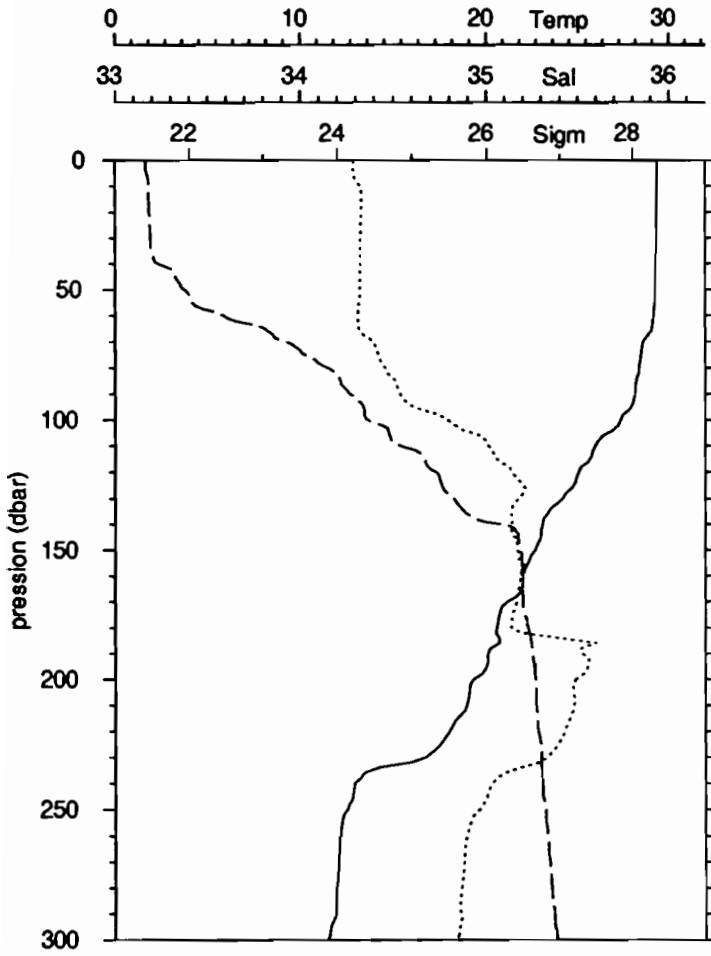


# EQUALIS -station 130

27/11/92, 2h 8 TU

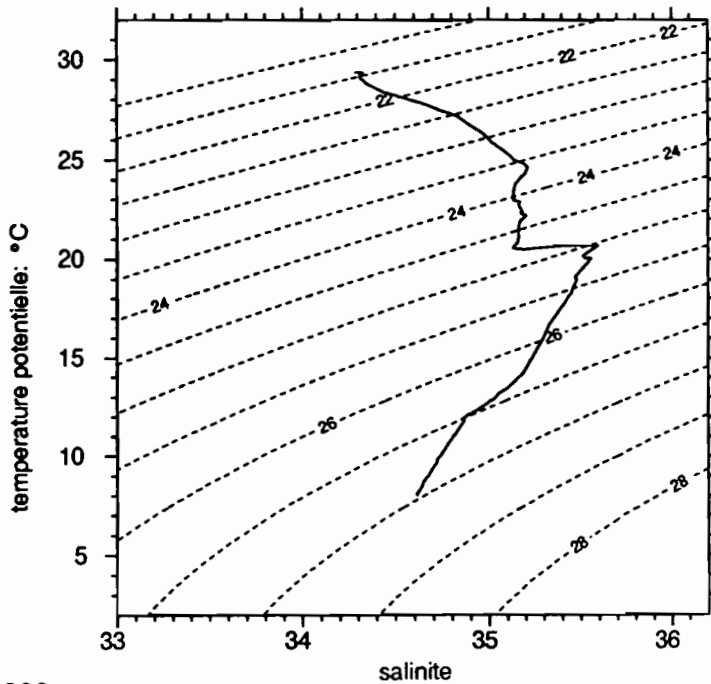
1°45 S 156°10 E

27/11/92, 12h 8 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m<sup>3</sup>

	P	T	S
debut	6.0	29.354	34.287
fin	500.0	8.059	34.612



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.354	34.323		
20.0	29.331	34.328		
30.0	29.312	34.324		
40.0	29.277	34.324		
50.0	29.256	34.323		
75.0	28.465	34.420		
100.0	27.329	34.792		
125.0	24.756	35.201		
150.0	22.664	35.168		
200.0	19.296	35.487		
250.0	12.539	34.961		
300.0	11.493	34.841		
400.0	9.918	34.726		
500.0	8.059	34.612		

# EQUALIS - station130

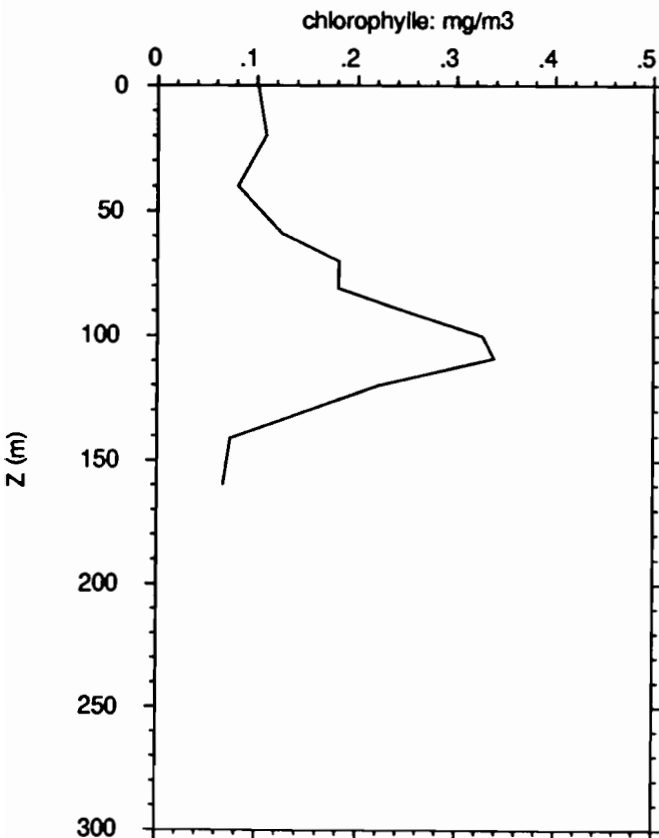
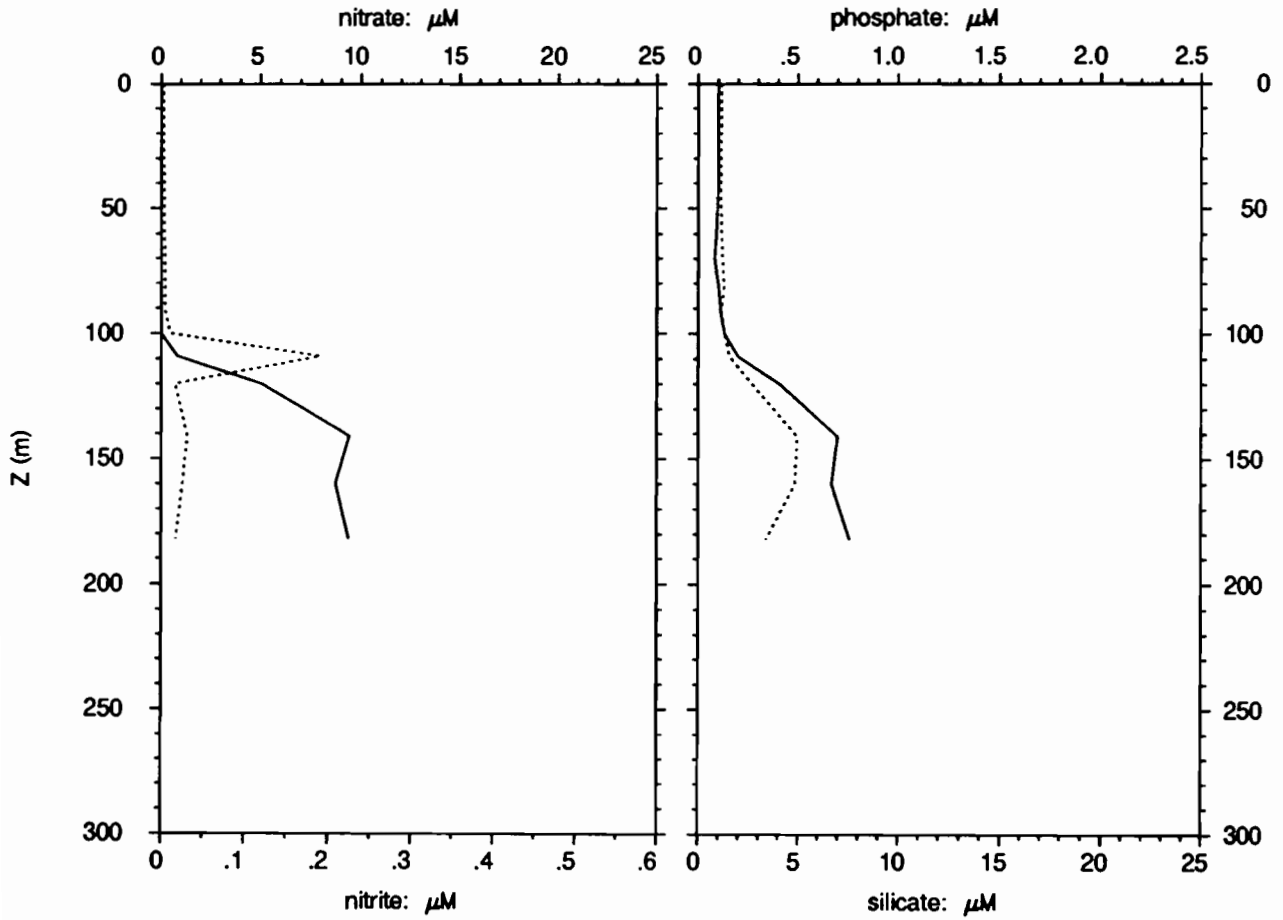
1°45 S 156°10 E

27/11/92, 2h 8 TU

27/11/92, 12h 8 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.003	0.003	0.10	1.1
20	0.001	0.003	0.10	1.1
40	0.000	0.004	0.10	1.1
59	0.000	0.004	0.09	1.2
70	0.000	0.005	0.08	1.2
81	0.000	0.005	0.10	1.3
91	0.001	0.005	0.11	1.2
100	0.003	0.011	0.13	1.3
109	0.820	0.191	0.20	1.6
120	5.05	0.017	0.41	2.7
141	9.40	0.032	0.70	5.0
160	8.72	0.026	0.67	4.8
182	9.37	0.018	0.76	3.4

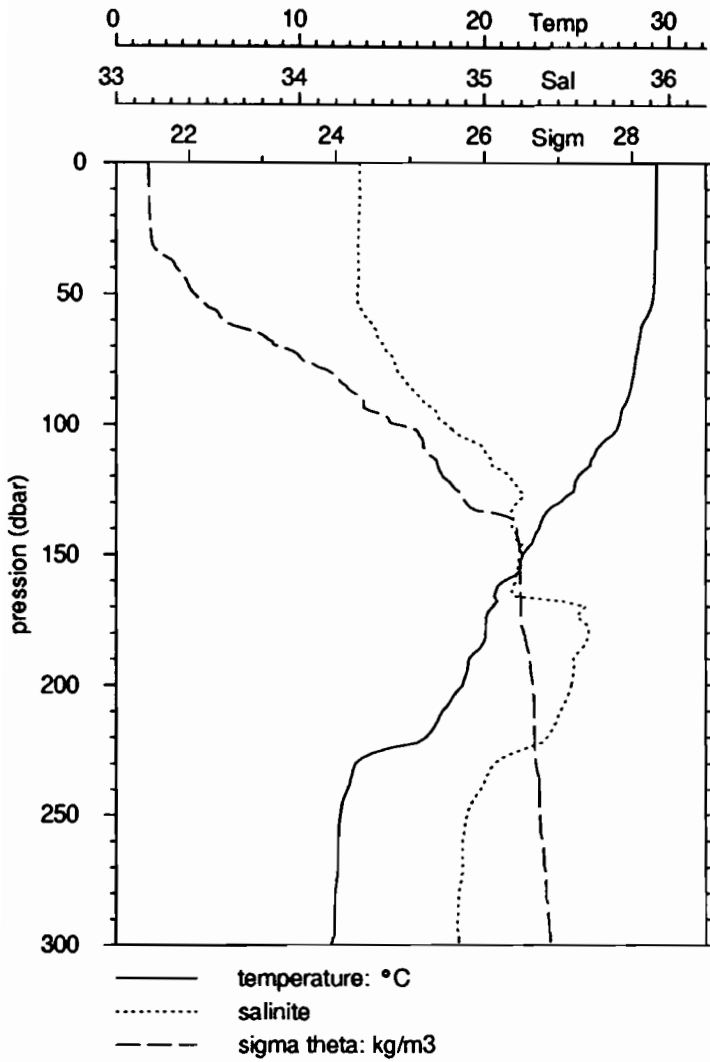
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.43	34.31	0.101	0.030	23.01
20	29.33	34.33	0.109	0.043	28.10
40	29.26	34.31	0.081	0.086	51.43
59	28.96	34.10	0.125	0.076	37.88
70	28.43	34.28	0.181	0.173	48.92
81	27.53	34.44	0.181	0.231	56.06
91	27.01	34.26	0.254	0.288	53.07
100	25.98	34.75	0.326	0.469	58.97
109	25.86	34.64	0.338	0.479	58.66
120	24.97	35.13	0.221	0.412	65.02
141	22.84	34.81	0.074	0.154	67.64
160	22.00	34.85	0.067	0.159	70.31
182	20.67	35.36			

# EQUALIS -station 131

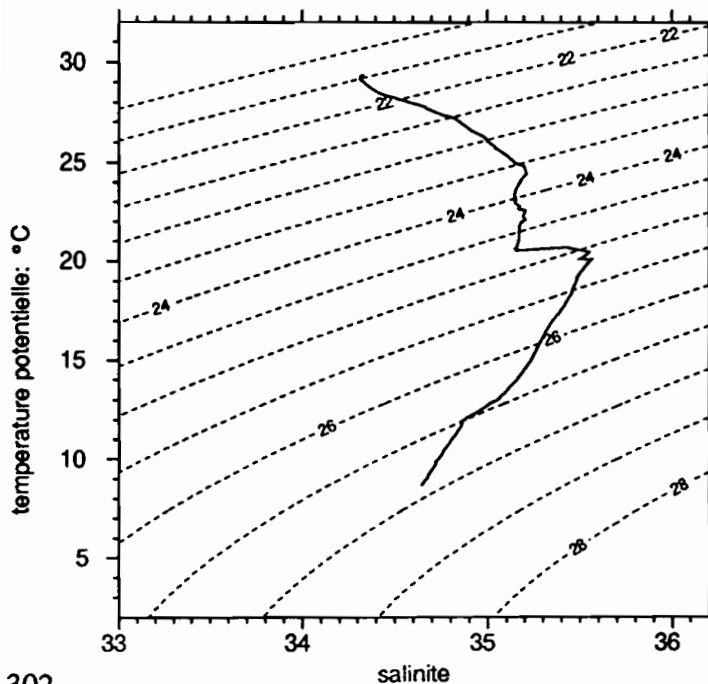
1°45 S 156°10 E

27/11/92, 4h 0 TU

27/11/92, 14h 0 locale



	P	T	S
debut	6.0	29.354	34.327
fin	498.0	8.710	34.644



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.351	34.329		
20.0	29.317	34.324		
30.0	29.295	34.321		
40.0	29.274	34.321		
50.0	29.189	34.316		
75.0	28.212	34.509		
100.0	27.301	34.796		
125.0	24.873	35.189		
150.0	22.095	35.204		
200.0	18.834	35.473		
250.0	12.228	34.909		
300.0	11.742	34.859		
400.0	10.037	34.733		

# EQUALIS - station131

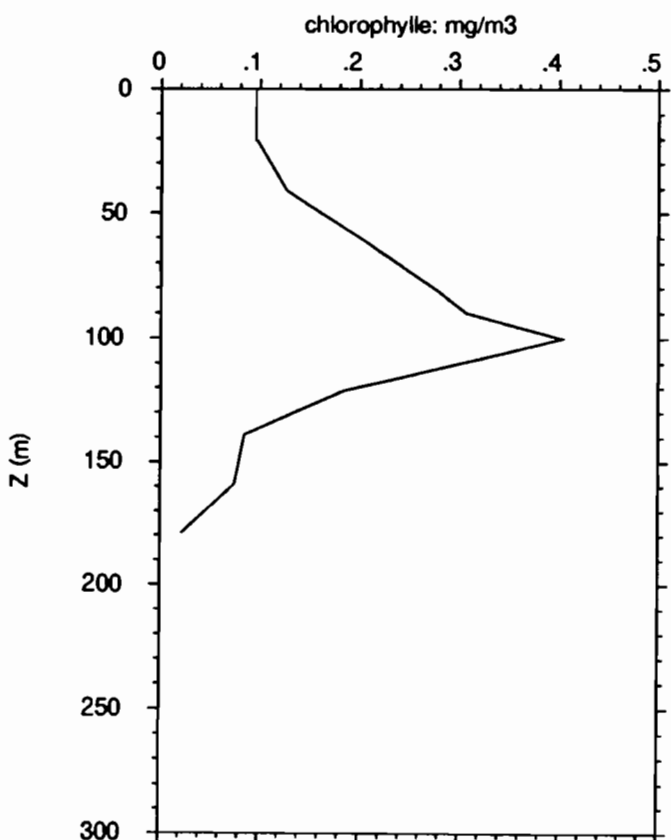
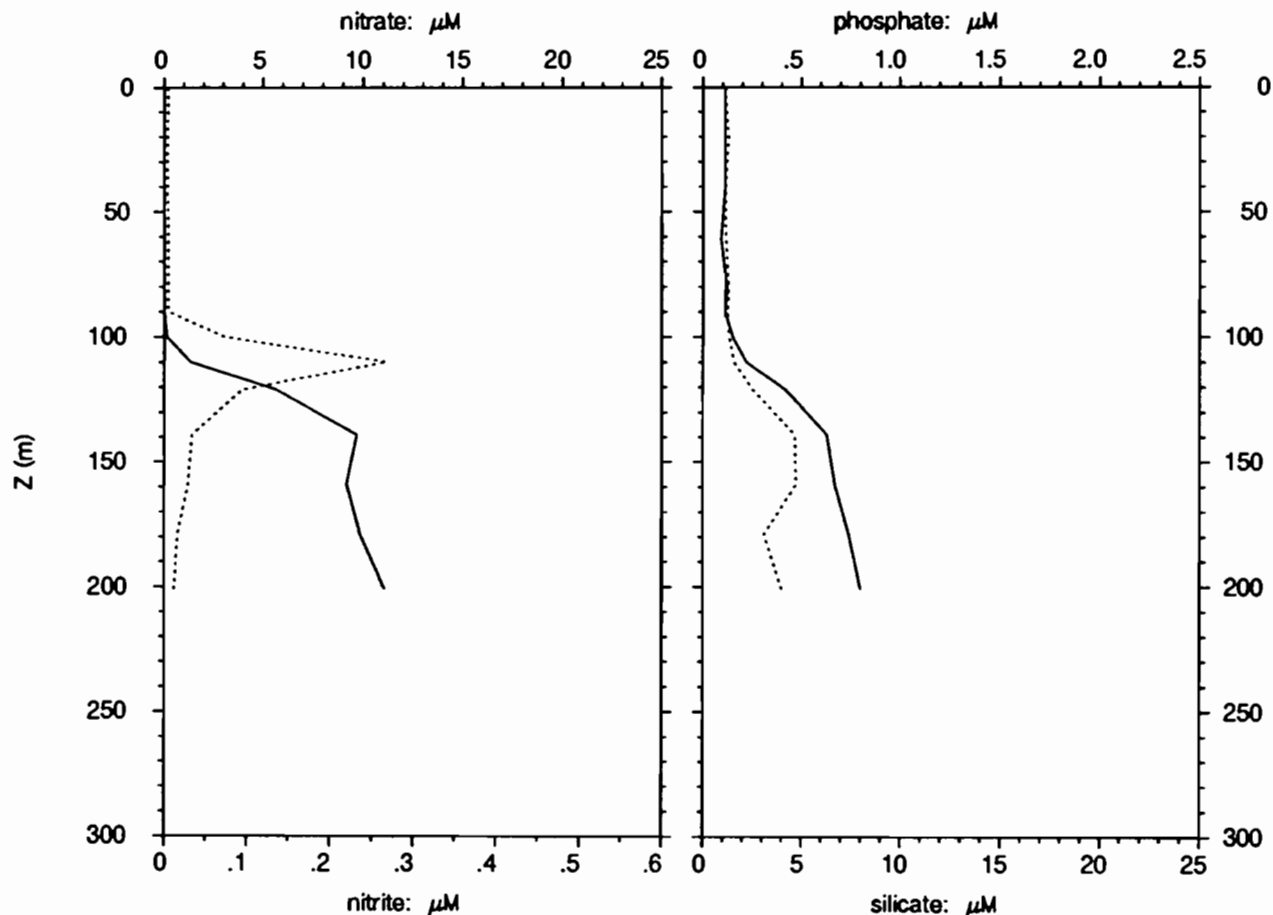
1°45 S 156°10 E

27/11/92, 4h 0 TU

27/11/92, 14h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.005	0.11	1.1
20	0.002	0.004	0.11	1.3
41	0.002	0.004	0.11	1.1
61	0.001	0.005	0.09	1.1
81	0.003	0.005	0.12	1.3
90	0.001	0.005	0.11	1.2
100	0.139	0.073	0.15	1.3
110	1.340	0.268	0.22	1.6
121	5.66	0.095	0.42	2.5
139	9.68	0.034	0.63	4.7
159	9.18	0.029	0.67	4.7
179	9.84	0.016	0.74	3.1
201	11.04	0.012	0.80	4.0

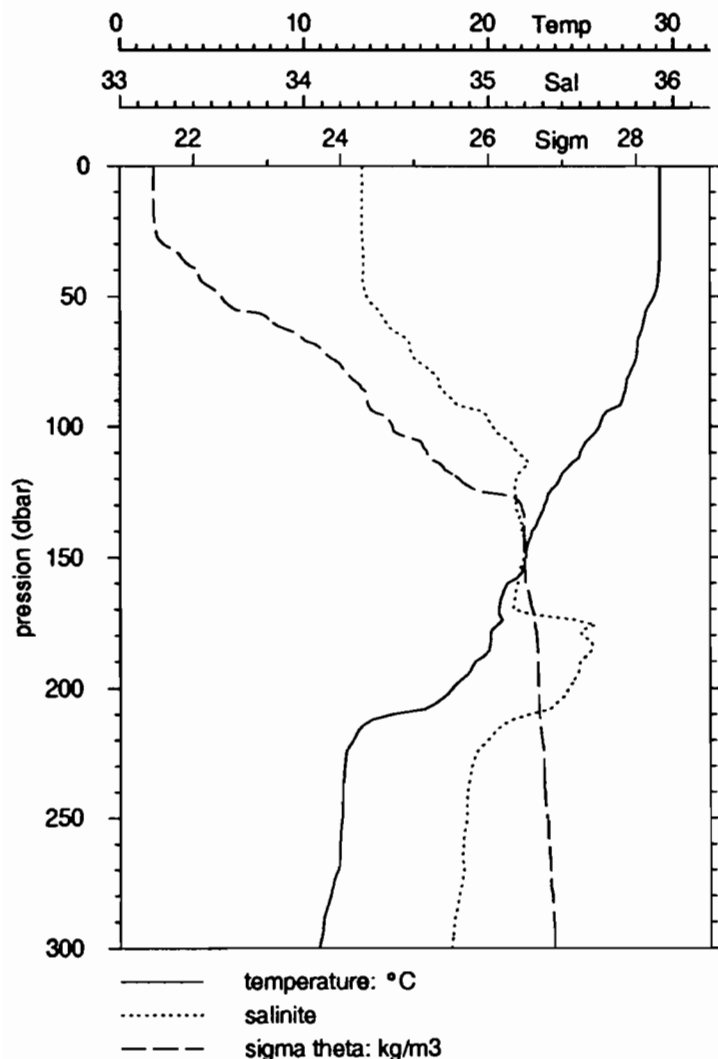
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.45	34.35	0.096	0.060	38.49
20	29.32	34.32	0.096	0.064	39.98
41	29.25	34.29	0.127	0.073	36.44
61	28.42	34.43	0.204	0.150	42.38
81	27.92	34.56	0.278	0.193	40.94
90	27.55	34.55	0.307	0.302	49.61
100	26.40	34.82	0.403	0.446	52.57
110	25.74	34.62	0.301	0.376	55.49
121	24.72	34.78	0.185	0.322	63.49
139	22.99	34.94	0.085	0.183	68.20
159	21.86	34.53	0.075	0.145	66.06
179	20.04	35.24	0.022	0.042	65.06
201	18.86	35.45			

# EQUALIS -station 132

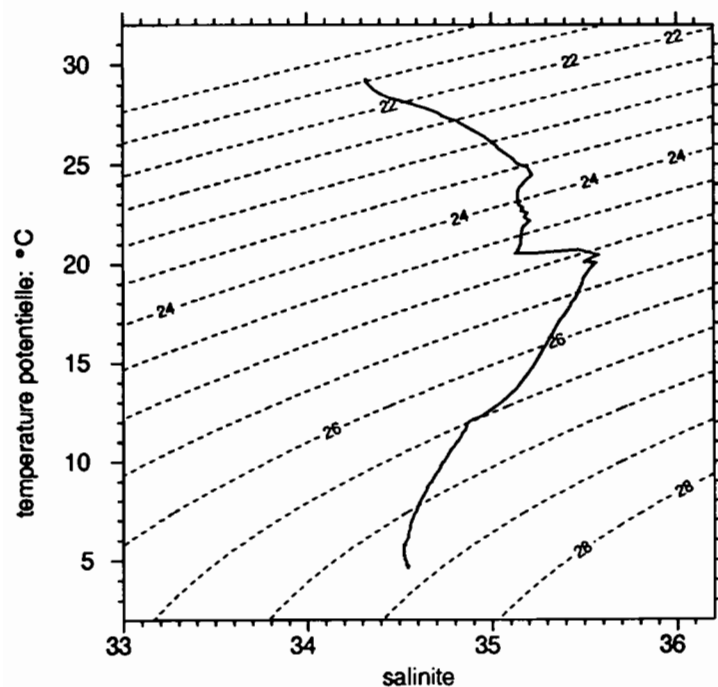
27/11/92, 7h 4 TU

1°45 S 156°10 E

27/11/92, 17h 4 locale



	P	T	S
debut	4.0	29.283	34.317
fin	998.0	4.674	34.545



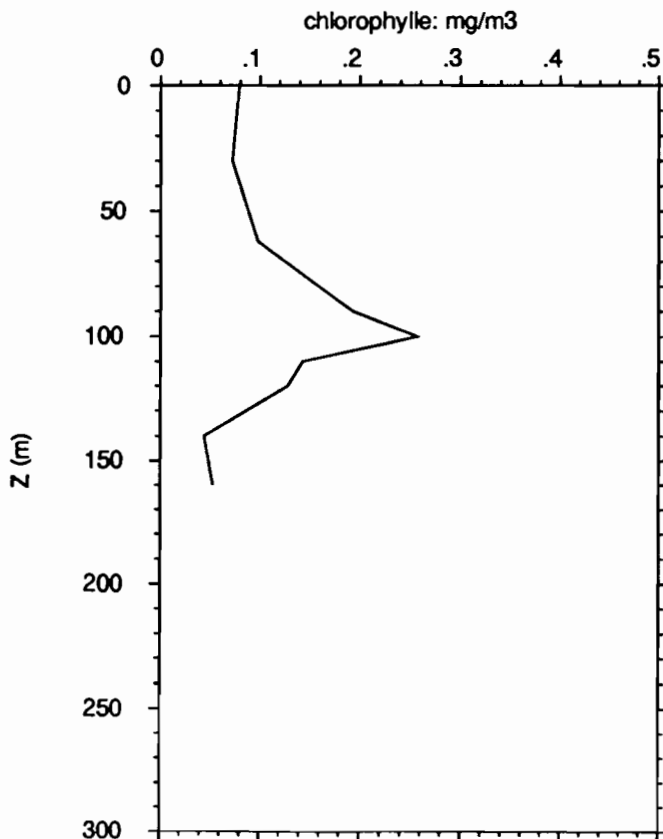
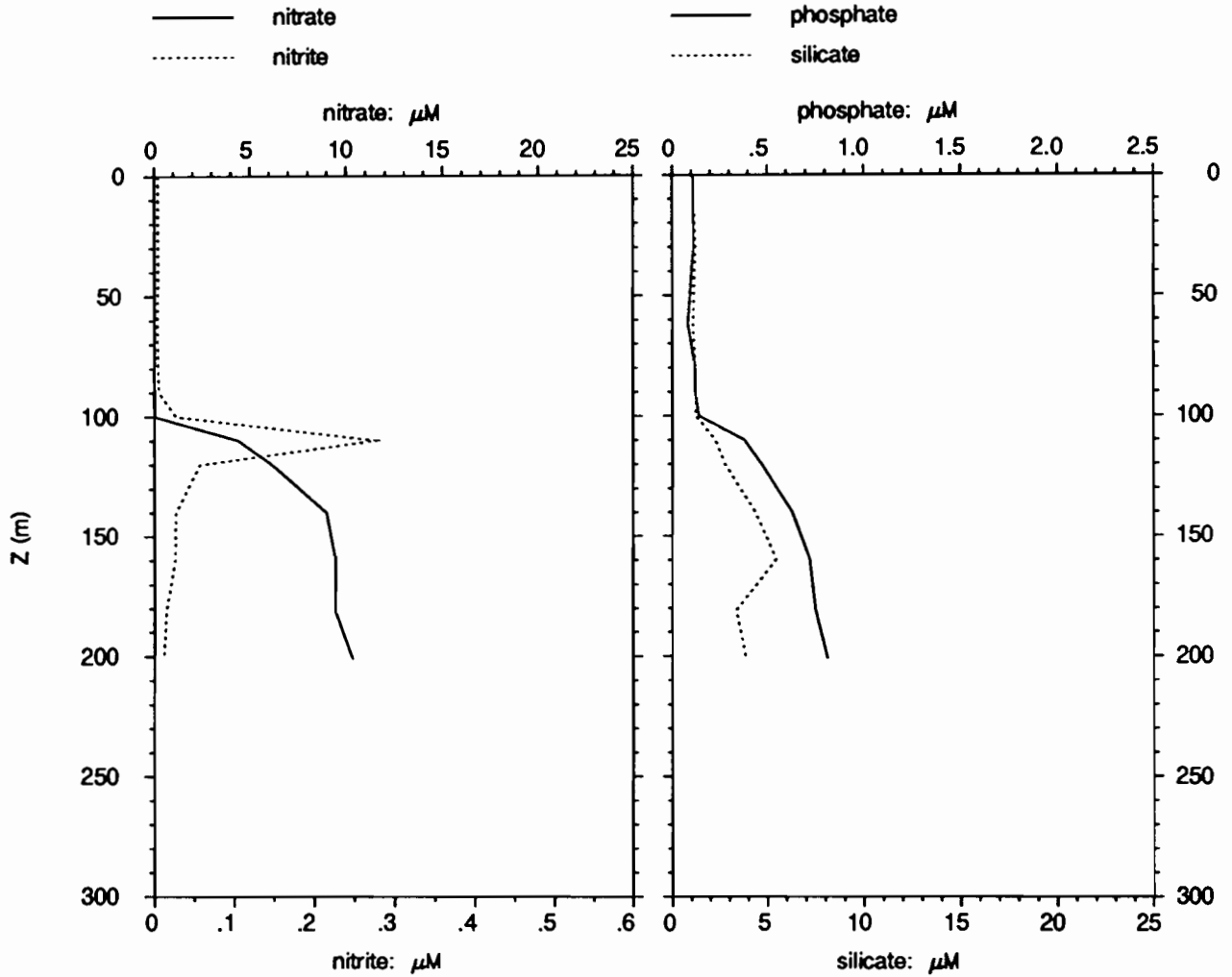
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.291	34.318		
20.0	29.291	34.315		
30.0	29.281	34.321		
40.0	29.244	34.326		
50.0	28.968	34.342		
75.0	27.927	34.622		
100.0	25.987	35.026		
125.0	23.345	35.144		
150.0	22.039	35.193		
200.0	18.045	35.431		
250.0	12.074	34.881		
300.0	10.820	34.797		
400.0	9.903	34.727		
500.0	8.726	34.652		
600.0	6.700	34.561		
700.0	6.128	34.543		
800.0	5.637	34.524		
900.0	4.908	34.538		

# EQUALIS - station132

1°45 S 156°10 E

27/11/92, 7h 4 TU

27/11/92, 17h 4 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.005	0.11	1.1
30	0.001	0.005	0.11	1.2
62	0.001	0.004	0.08	1.1
80	0.000	0.005	0.12	1.2
90	0.000	0.006	0.12	1.2
100	0.040	0.027	0.14	1.2
110	4.40	0.277	0.38	2.3
120	6.16	0.057	0.47	2.8
140	8.98	0.027	0.63	4.4
160	9.45	0.026	0.72	5.5
181	9.43	0.015	0.75	3.4
201	10.32	0.012	0.81	3.9
1001	31.18	0.003	2.82	58.4

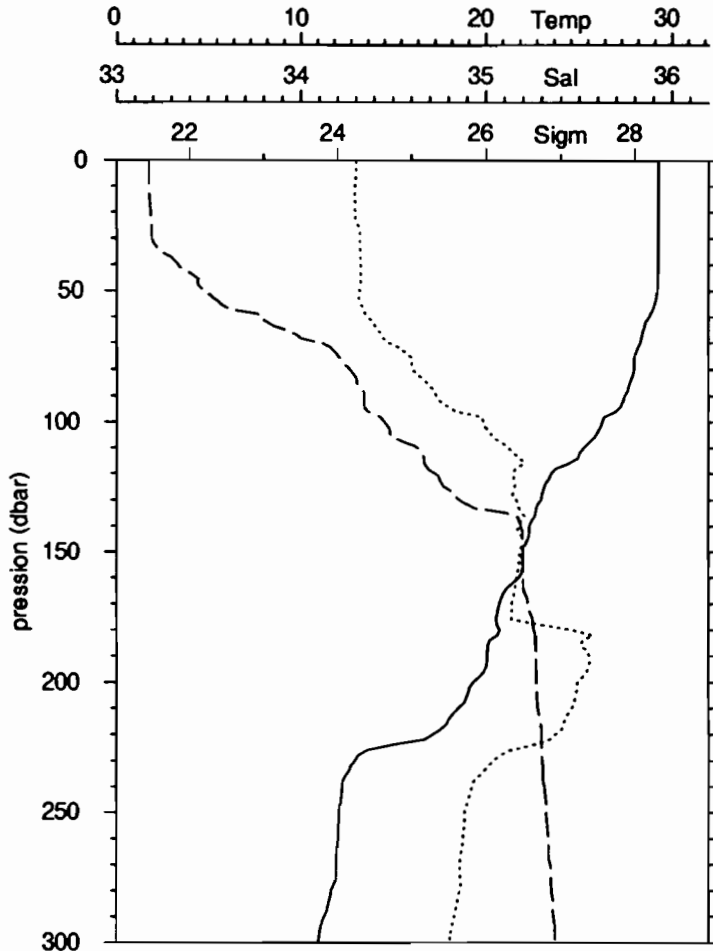
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.37	34.34	0.079	0.045	36.21
30	29.28	34.07	0.072	0.060	45.30
62	28.27	34.10	0.098	0.187	65.56
80	26.21	34.38	0.159	0.281	63.83
90	26.97	34.03	0.193	0.305	61.29
100	25.96	34.51	0.257	0.555	68.36
110	25.27	34.38	0.143	0.387	72.95
120	24.19	34.37	0.128	0.274	68.12
140	22.47	34.21	0.044	0.126	74.03
160	20.76	35.00	0.053	0.137	72.27
181	20.10	35.02			
201	18.48	35.42			
1001	4.67	34.54			

# EQUALIS -station 133

1°45 S 156°10 E

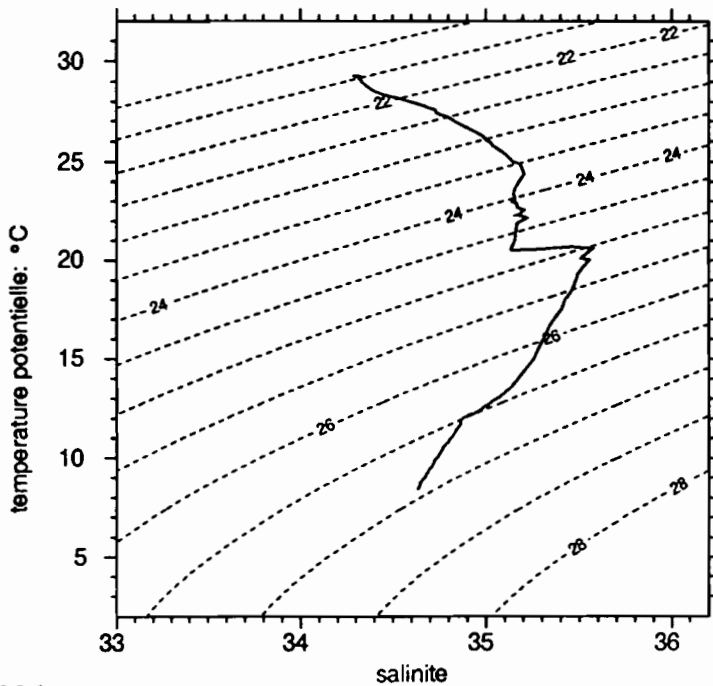
27/11/92, 8h18 TU

27/11/92, 18h18 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.276	34.299
fin	498.0	8.448	34.632



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.271	34.295		
20.0	29.270	34.293		
30.0	29.291	34.322		
40.0	29.267	34.325		
50.0	29.215	34.319		
75.0	28.017	34.589		
100.0	26.255	34.989		
125.0	23.143	35.155		
150.0	21.988	35.179		
200.0	19.324	35.491		
250.0	12.093	34.889		
300.0	10.942	34.805		
400.0	9.744	34.718		

# EQUALIS - station133

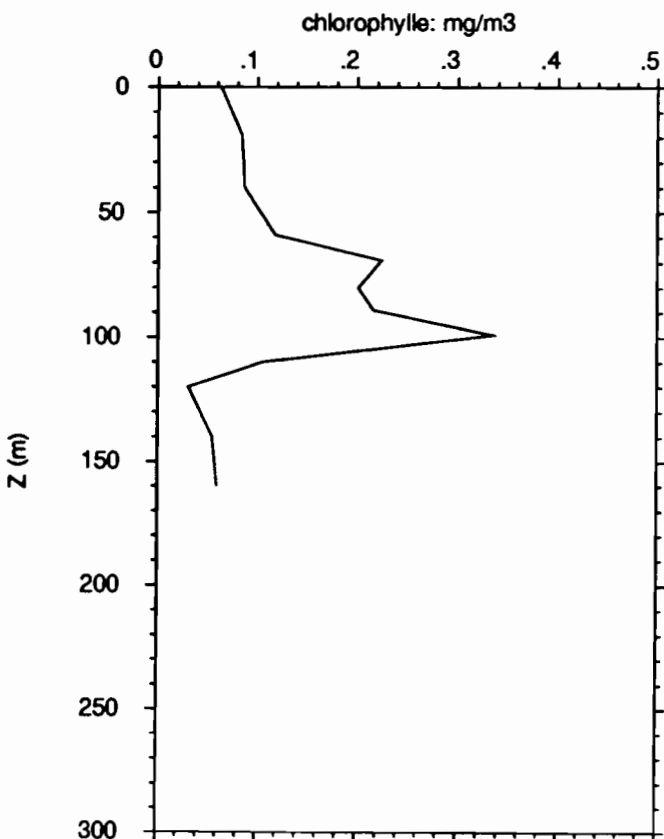
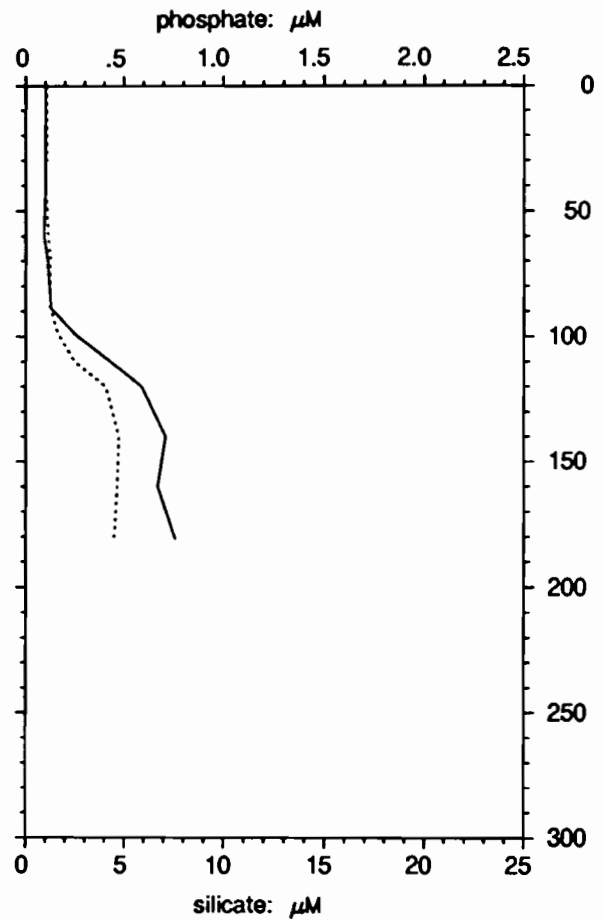
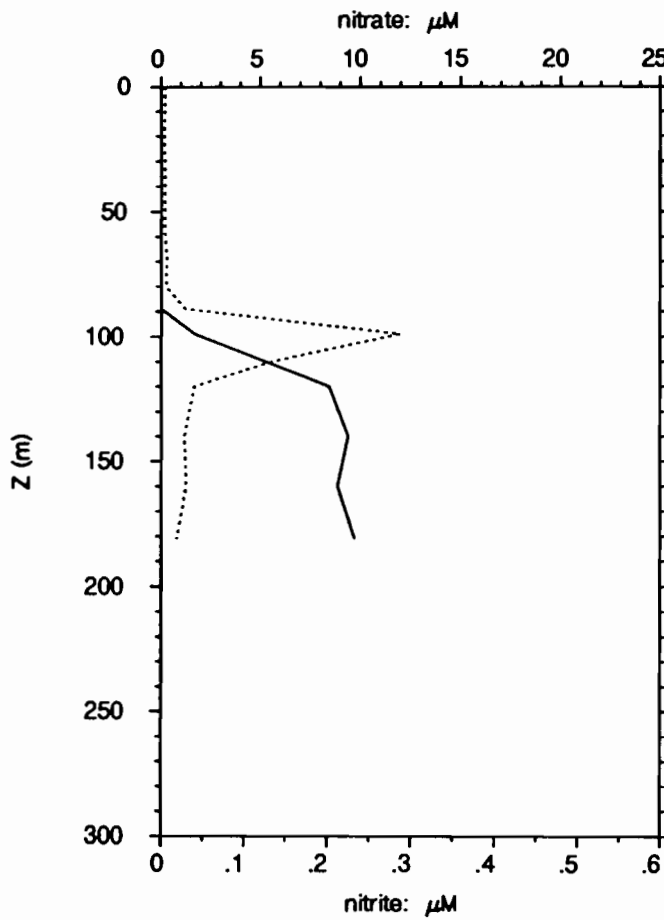
1°45 S 156°10 E

27/11/92, 8h18 TU

27/11/92, 18h18 locale

— nitrate  
- - - nitrite

— phosphate  
- - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.005	0.10	1.1
19	0.000	0.004	0.10	1.1
40	0.000	0.005	0.10	1.0
59	0.000	0.005	0.09	1.1
69	0.000	0.007	0.11	1.2
80	0.000	0.006	0.12	1.3
89	0.004	0.029	0.13	1.2
99	1.69	0.287	0.25	1.6
110	5.27	0.134	0.43	2.5
120	8.45	0.040	0.59	4.1
140	9.39	0.028	0.71	4.7
160	8.85	0.030	0.67	4.7
181	9.70	0.019	0.76	4.5

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.37	34.33	0.063	0.058	47.55
19	29.30	34.30	0.084	0.054	39.22
40	29.23	34.18	0.087	0.094	52.10
59	28.40	34.35	0.118	0.214	64.60
69	27.96	34.49	0.224	0.232	50.94
80	27.60	34.32	0.201	0.285	58.69
89	26.61	34.54	0.216	0.677	75.80
99	25.76	34.59	0.335	0.475	58.70
110	24.86	34.32	0.105	0.540	83.76
120	23.30	34.64	0.031	0.359	92.10
140	22.32	34.85	0.055	0.112	67.22
160	21.73	34.58	0.060	0.150	71.48
181	20.73	35.48			

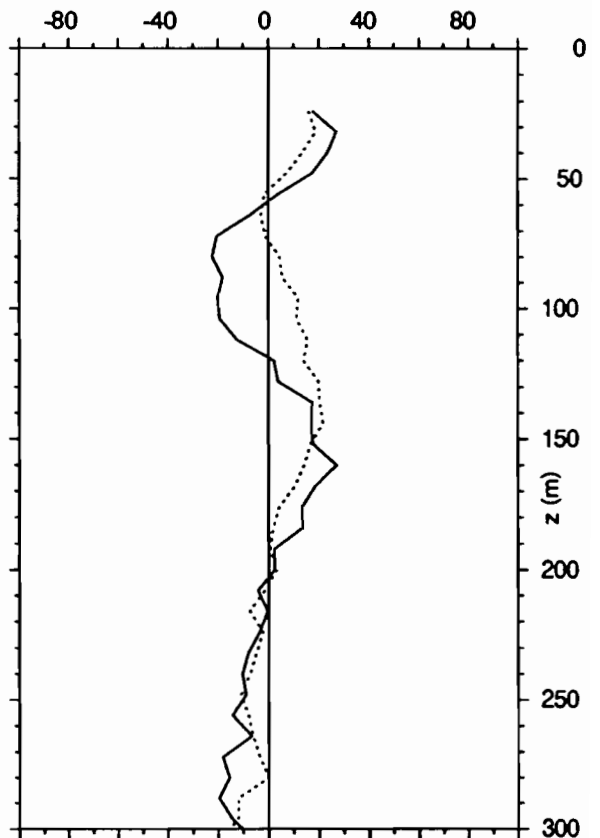
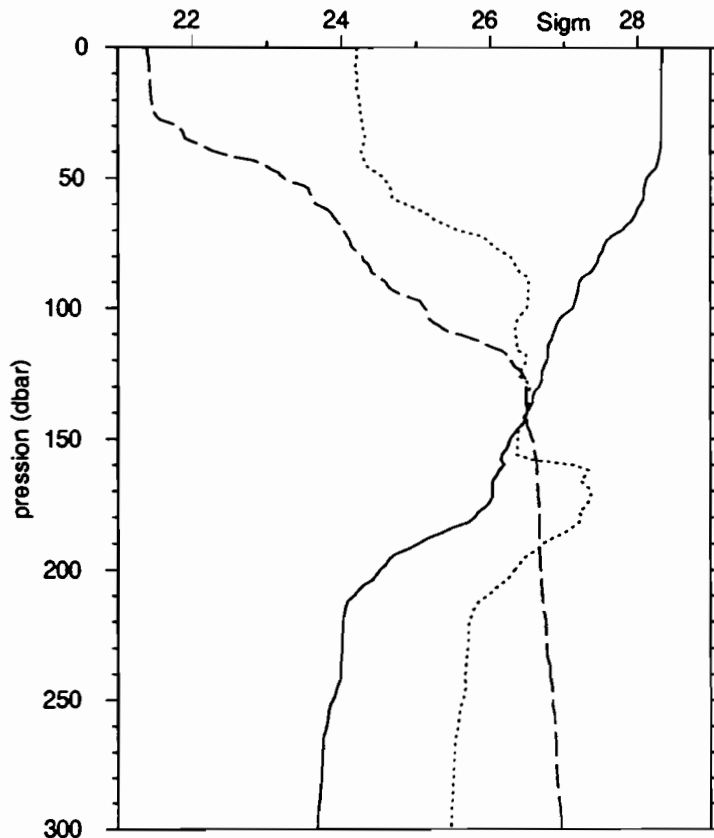


# EQUALIS -station 134

1°45 S 156°10 E

28/11/92, 7h 2 TU

28/11/92, 17h 2 locale

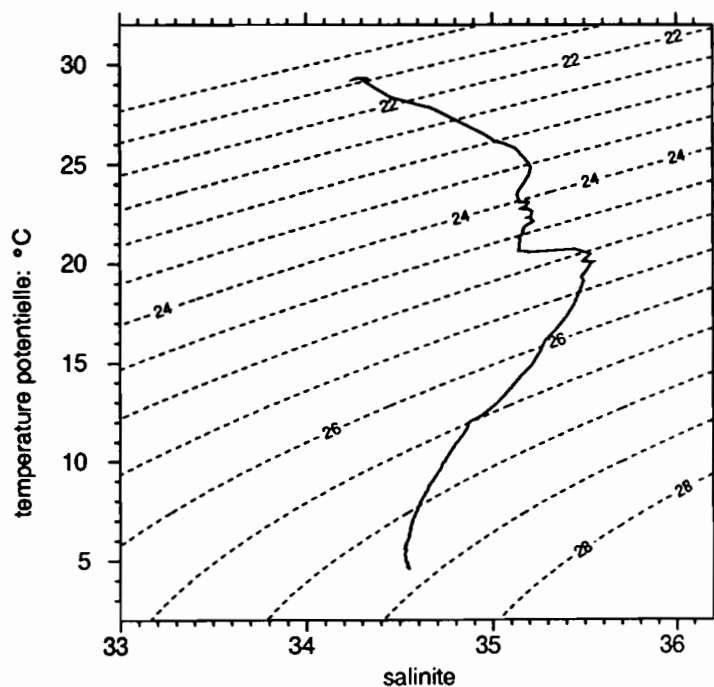


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.373	34.281
fin	998.0	4.667	34.545

	Z	U	V
debut	24.0	17.7	16.0
fin	376.0	-0.1	-16.4



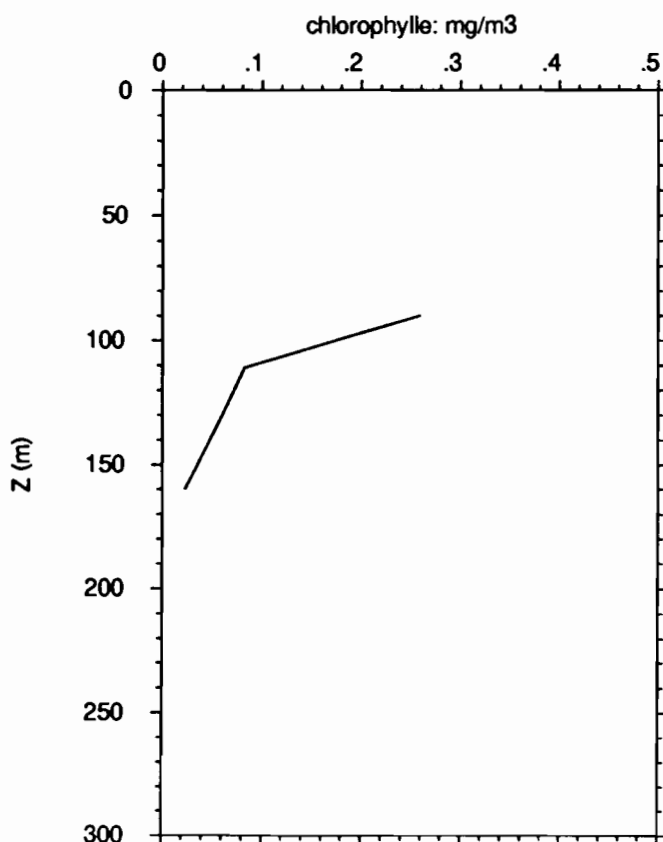
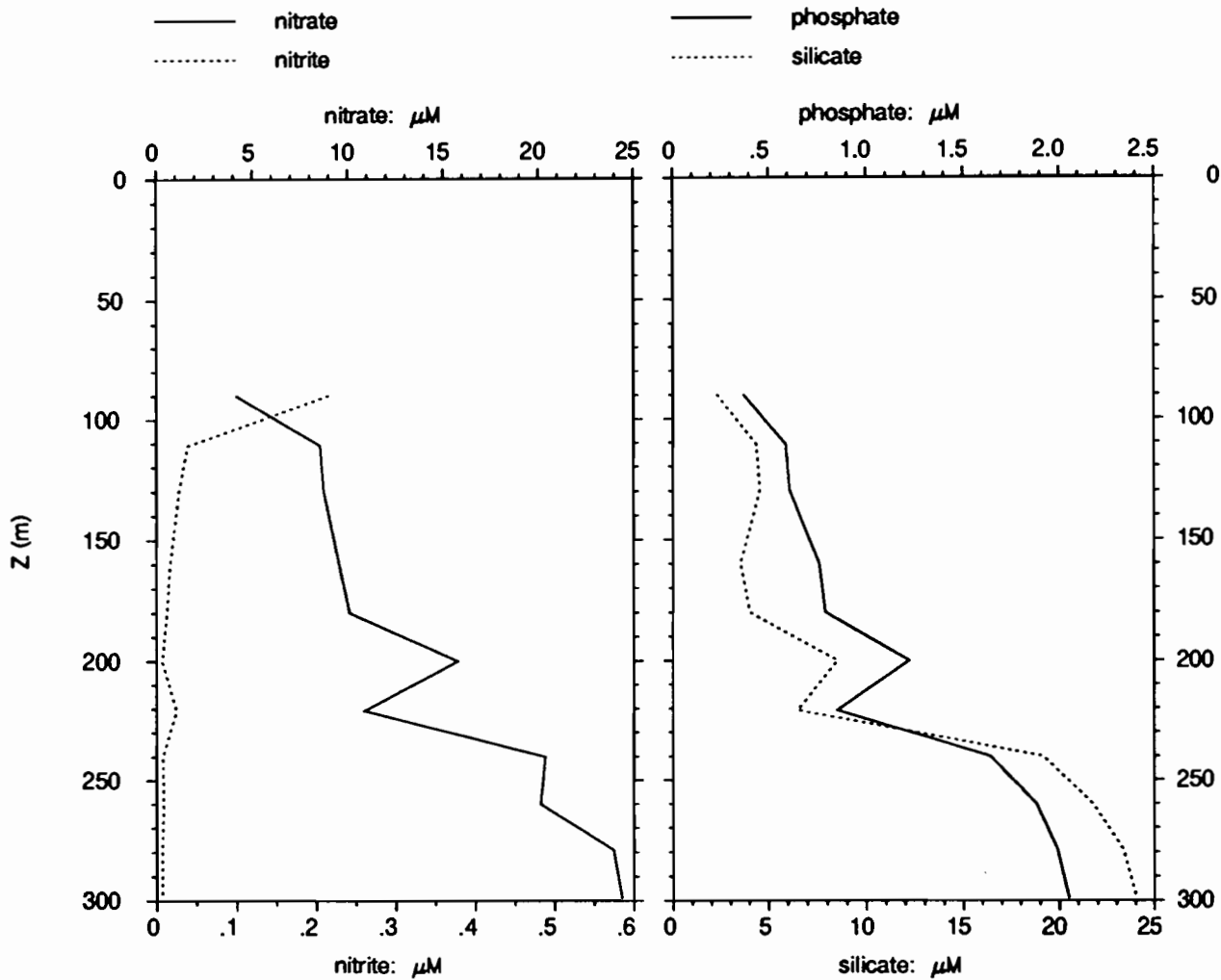
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.329	34.283		
20.0	29.325	34.293		
30.0	29.328	34.314	24.7	18.1
40.0	29.238	34.306	23.6	13.5
50.0	28.505	34.429	14.0	5.1
75.0	26.238	35.006	-21.1	1.0
100.0	24.478	35.200	-19.7	11.4
125.0	22.811	35.163	3.3	17.7
150.0	21.075	35.150	17.5	18.0
200.0	14.086	35.133	2.5	3.4
250.0	11.547	34.850	-10.2	-10.1
300.0	10.720	34.785	-10.5	-15.3
400.0	9.507	34.705		
500.0	8.045	34.613		
600.0	6.601	34.556		
700.0	6.228	34.548		
800.0	5.743	34.529		
900.0	5.069	34.531		

# EQUALIS - station134

1°45 S 156°10 E

28/11/92, 7h 2 TU

28/11/92, 17h 2 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	4.15	0.216	0.37	2.3
111	8.54	0.039	0.59	4.4
130	8.73	0.028	0.61	4.6
160	9.53	0.017	0.76	3.5
180	10.08	0.013	0.79	4.0
200	15.74	0.007	1.22	8.5
221	10.85	0.025	0.85	6.5
240	20.35	0.008	1.64	19.1
260	20.09	0.009	1.88	21.7
279	23.92	0.007	1.99	23.3
299	24.36	0.007	2.05	24.0
1001	30.52	0.004	2.87	65.6

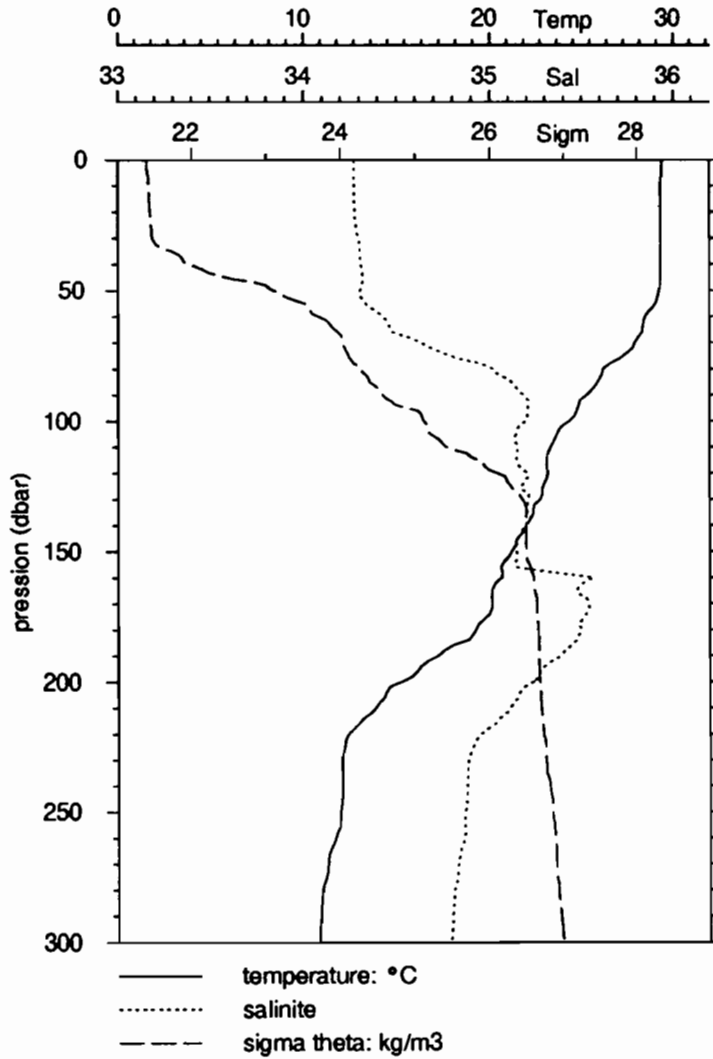
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
90	25.16	35.01	0.259	0.313	54.78
111	23.16	34.98	0.082	0.185	69.33
130	22.68	34.78	0.060	0.118	66.30
160	20.41	34.78	0.023	0.053	69.85
180	18.36	33.24			
200	13.95	34.58			
221	12.10	34.81			
240	11.97	34.55			
260	11.29	34.62			
279	10.96	34.66			
299	10.76	34.78			
1001	4.67	34.54			

# EQUALIS -station 135

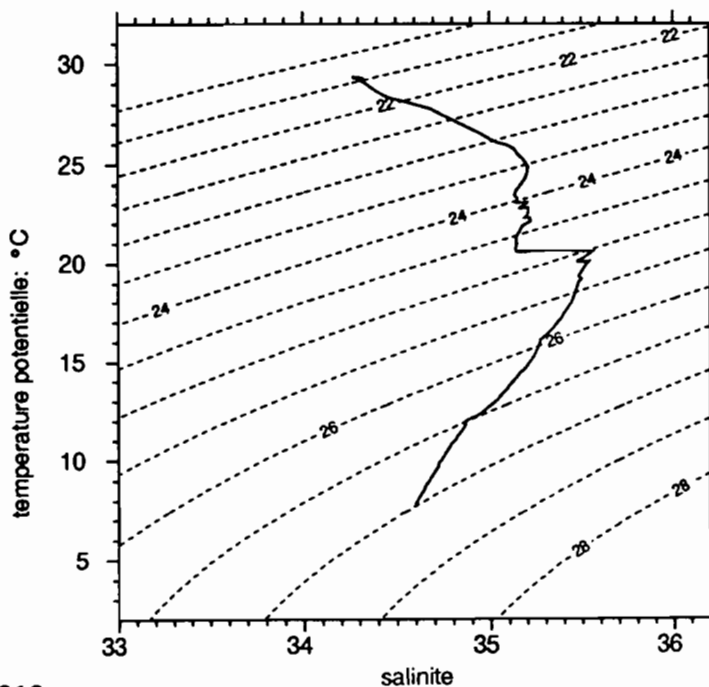
28/11/92, 8h 8 TU

1°45 S 156°10 E

28/11/92, 18h 8 locale



	P	T	S
debut	6.0	29.380	34.272
fin	498.0	7.856	34.599



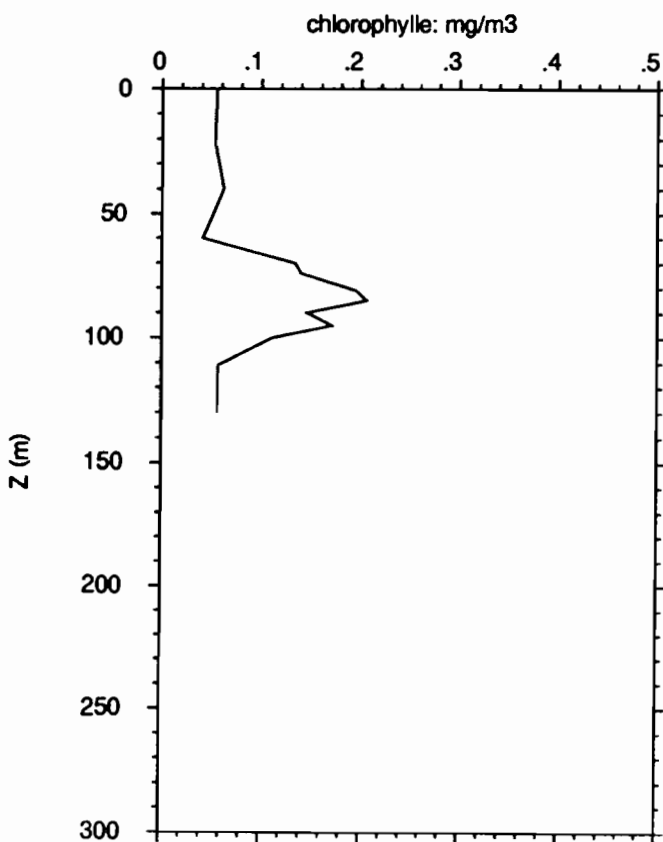
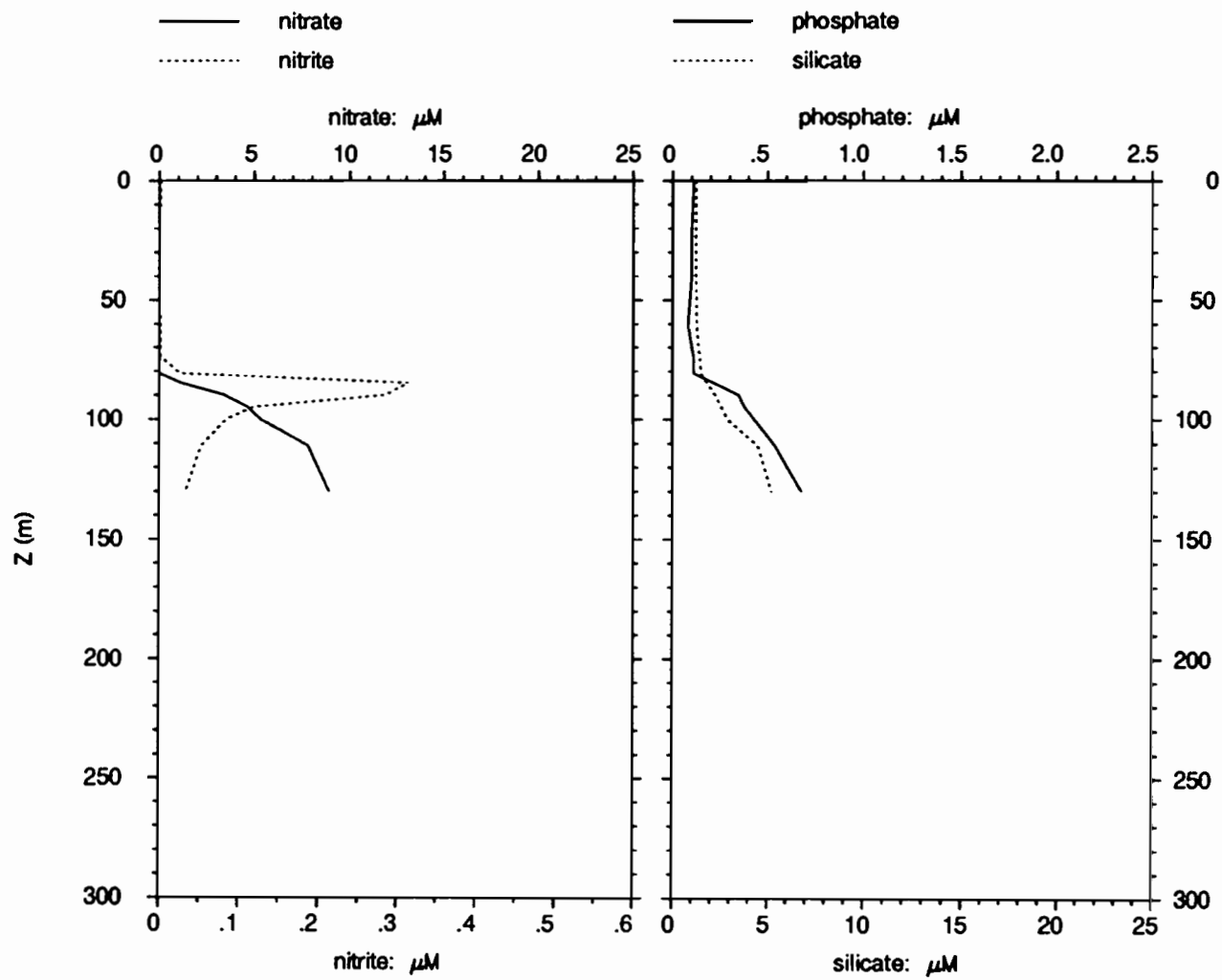
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.329	34.274		
20.0	29.308	34.278		
30.0	29.328	34.297		
40.0	29.315	34.312		
50.0	29.232	34.303		
75.0	27.281	34.787		
100.0	24.298	35.191		
125.0	22.874	35.172		
150.0	21.165	35.143		
200.0	15.268	35.234		
250.0	11.994	34.867		
300.0	10.827	34.790		
400.0	9.523	34.705		

# EQUALIS - station135

1°45 S 156°10 E

28/11/92, 8h 8 TU

28/11/92, 18h 8 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.005	0.002	0.11	1.2
21	0.003	0.001	0.10	1.2
40	0.004	0.000	0.10	1.2
60	0.004	0.002	0.08	1.3
70	0.004	0.002	0.10	1.4
74	0.003	0.002	0.11	1.4
81	0.027	0.026	0.11	1.5
85	1.140	0.315	0.22	1.8
90	3.44	0.285	0.35	2.2
95	4.64	0.120	0.38	2.6
100	5.32	0.085	0.43	2.9
111	7.81	0.053	0.54	4.5
130	8.90	0.033	0.68	5.2

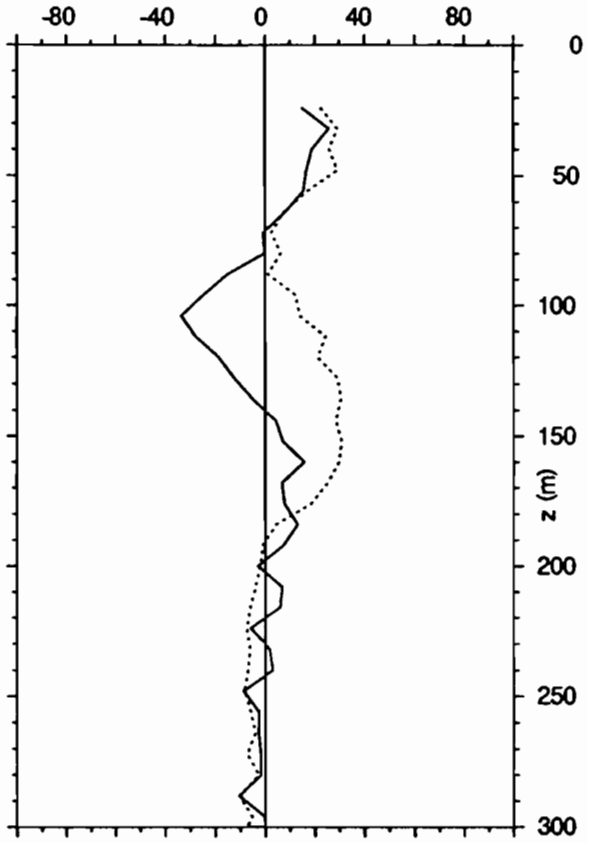
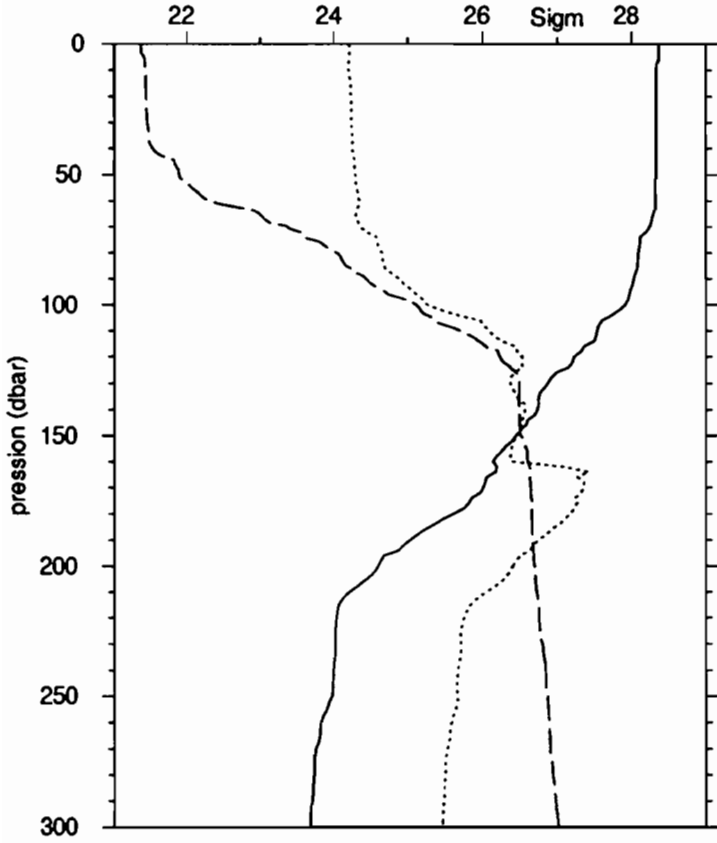
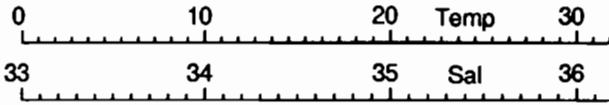
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.20	34.31	0.055	0.062	52.77
21	29.29	34.28	0.053	0.091	63.01
40	29.31	34.17	0.062	0.092	59.77
60	28.53	34.23	0.041	0.268	86.66
70	28.01	24.49	0.134	0.215	61.59
74	27.76	34.17	0.140	0.258	64.76
81	26.53	34.71	0.195	0.462	70.31
85	26.01	34.80	0.206	0.435	67.82
90	25.67	34.86	0.146	0.602	80.54
95	24.76	34.87	0.171	0.366	68.20
100	24.33	34.43	0.111	0.394	78.03
111	23.47	35.09	0.057	0.308	84.28
130	22.85	35.19	0.056	0.193	77.45

# EQUALIS -station 137

1°45 S 156°10 E

28/11/92, 10h 3 TU

28/11/92, 20h 3 locale

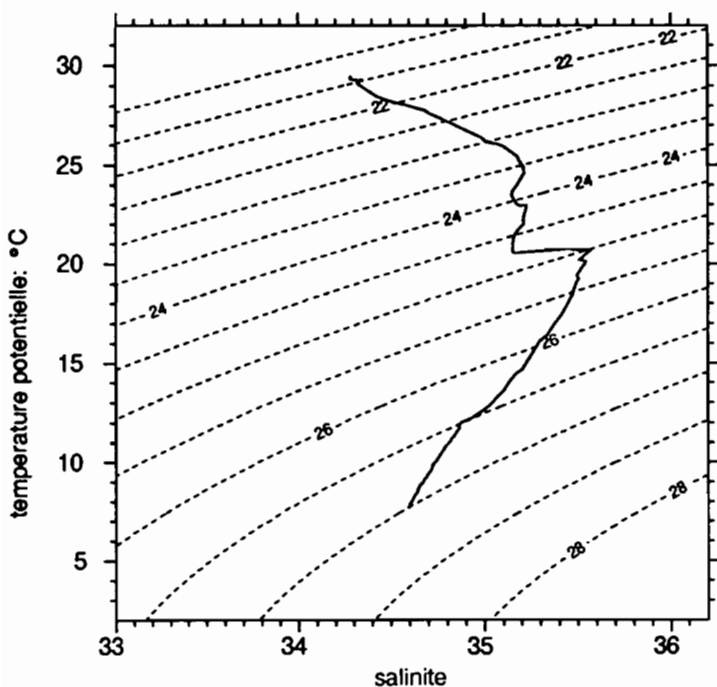


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.462	34.284
fin	502.0	7.715	34.591

	Z	U	V
debut	24.0	14.9	22.5
fin	376.0	0.0	-4.9



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.324	34.280		
20.0	29.317	34.292		
30.0	29.313	34.296	23.1	27.5
40.0	29.307	34.301	19.1	26.0
50.0	29.309	34.316	16.5	26.2
75.0	28.457	34.433	-0.5	4.1
100.0	27.646	34.706	-29.1	13.2
125.0	24.290	35.192	-14.7	26.3
150.0	21.774	35.182	6.6	30.4
200.0	14.405	35.162	-2.9	-1.9
250.0	11.907	34.866	-7.1	-7.8
300.0	10.731	34.784	0.3	-7.3
400.0	9.226	34.685		
500.0	7.716	34.591		

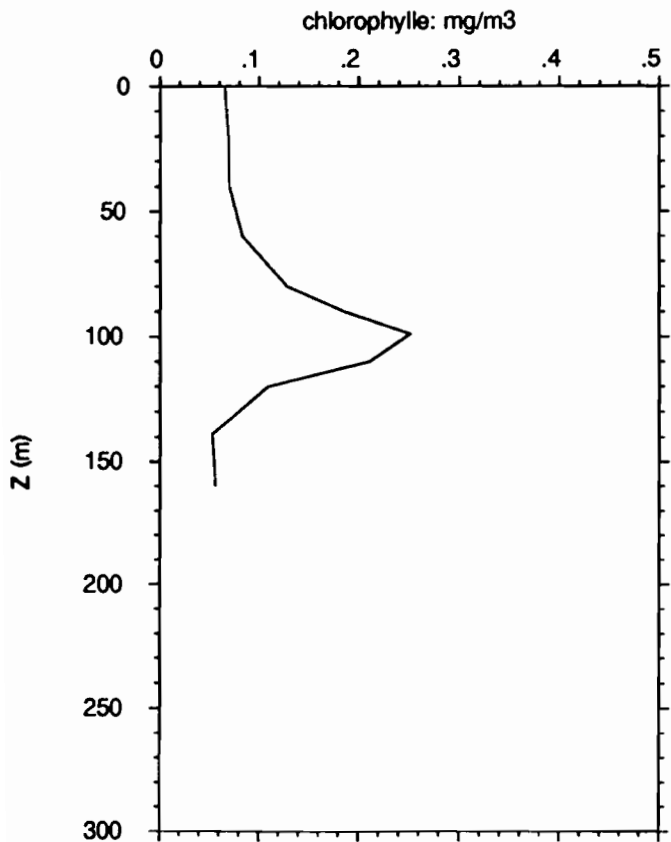
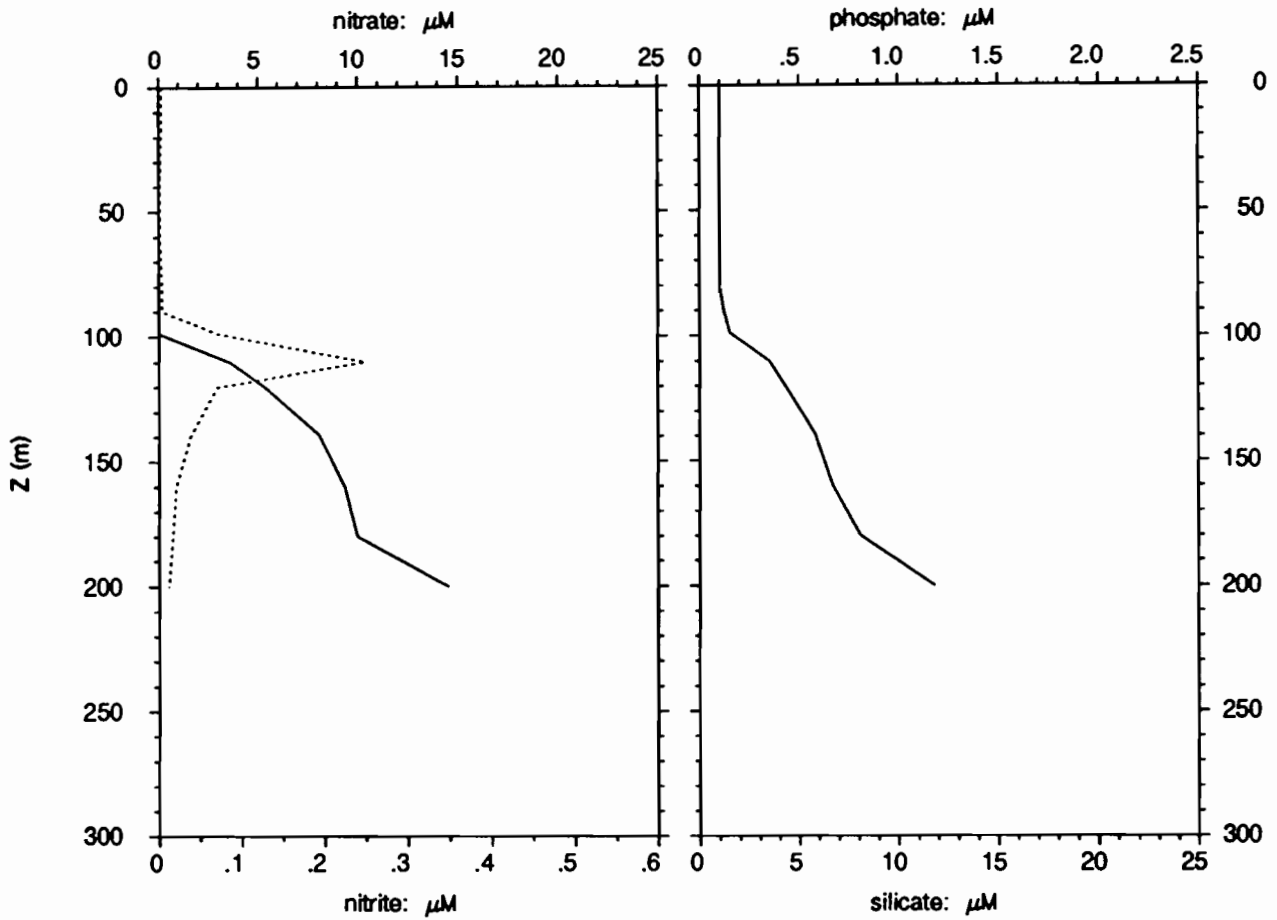
# EQUALIS - station137

1°45 S 156°10 E

28/11/92, 10h 3 TU

28/11/92, 20h 3 locale

— nitrate  
 ..... nitrite  
 — phosphate  
 ..... silicate



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.004	0.003	0.10	
20	0.003	0.003	0.10	
40	0.004	0.002	0.10	
60	0.003	0.002	0.10	
80	0.002	0.004	0.10	
90	0.002	0.004	0.12	
99	0.055	0.073	0.15	
110	3.59	0.249	0.35	
120	5.35	0.071	0.43	
139	8.05	0.039	0.58	
160	9.35	0.021	0.67	
180	9.99	0.017	0.81	
200	14.49	0.012	1.18	

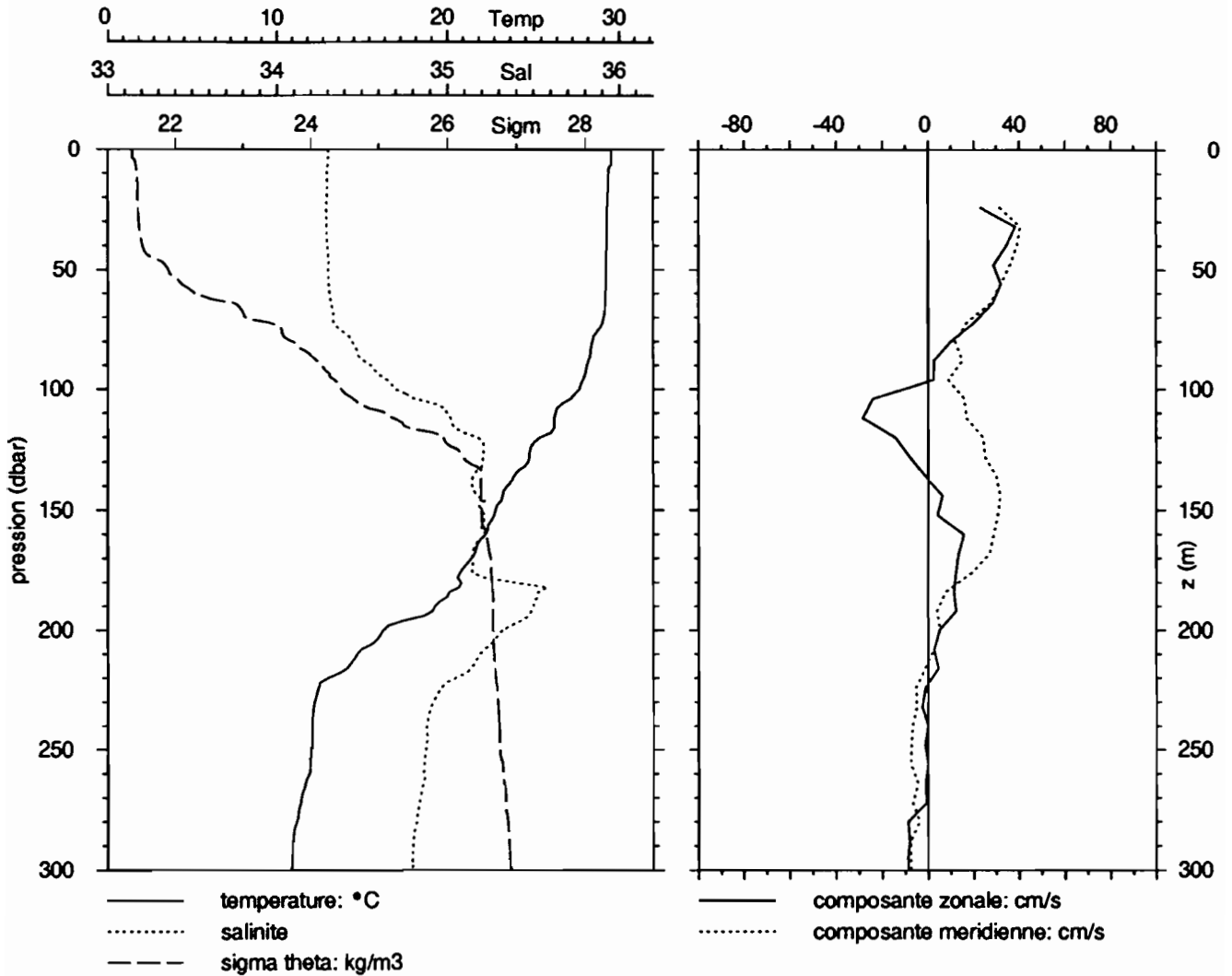
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.79	34.31	0.065	0.026	28.68
20	29.30	34.29	0.069	0.045	39.60
40	29.30	34.27	0.070	0.073	51.25
60	29.15	33.98	0.083	0.084	50.28
80	28.19	34.31	0.128	0.259	66.88
90	27.81	34.14	0.185	0.271	59.43
99	26.28	34.75	0.251	0.600	70.49
110	25.37	34.82	0.211	0.424	66.70
120	24.34	34.66	0.109	0.383	77.88
139	22.77	34.74	0.053	0.130	70.93
160	20.65	34.66	0.056	0.122	68.52
180	17.71	34.79			
200	14.22	35.10			

# EQUALIS -station 138

28/11/92, 12h59 TU

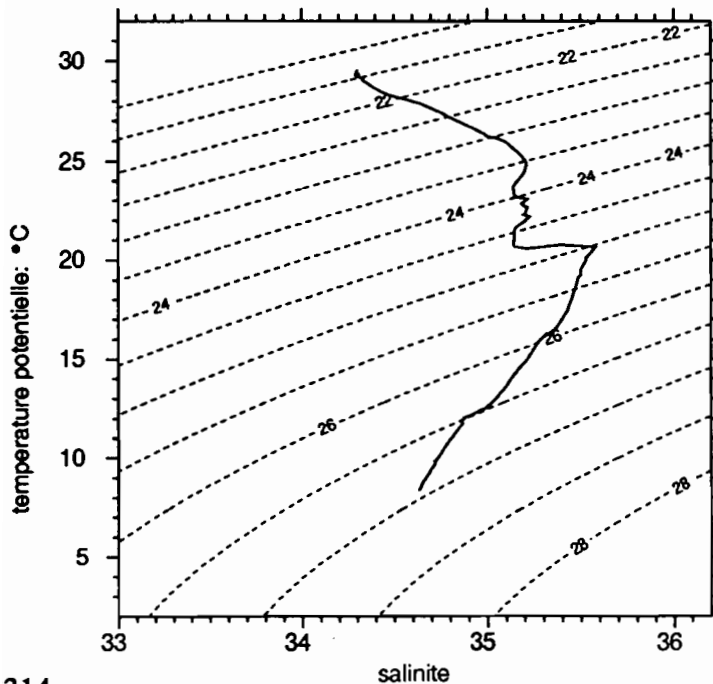
1°45 S 156°10 E

28/11/92, 22h59 locale



	P	T	S
debut	6.0	29.540	34.301
fin	502.0	8.414	34.633

	Z	U	V
debut	24.0	23.2	31.5
fin	328.0	-11.4	-15.4



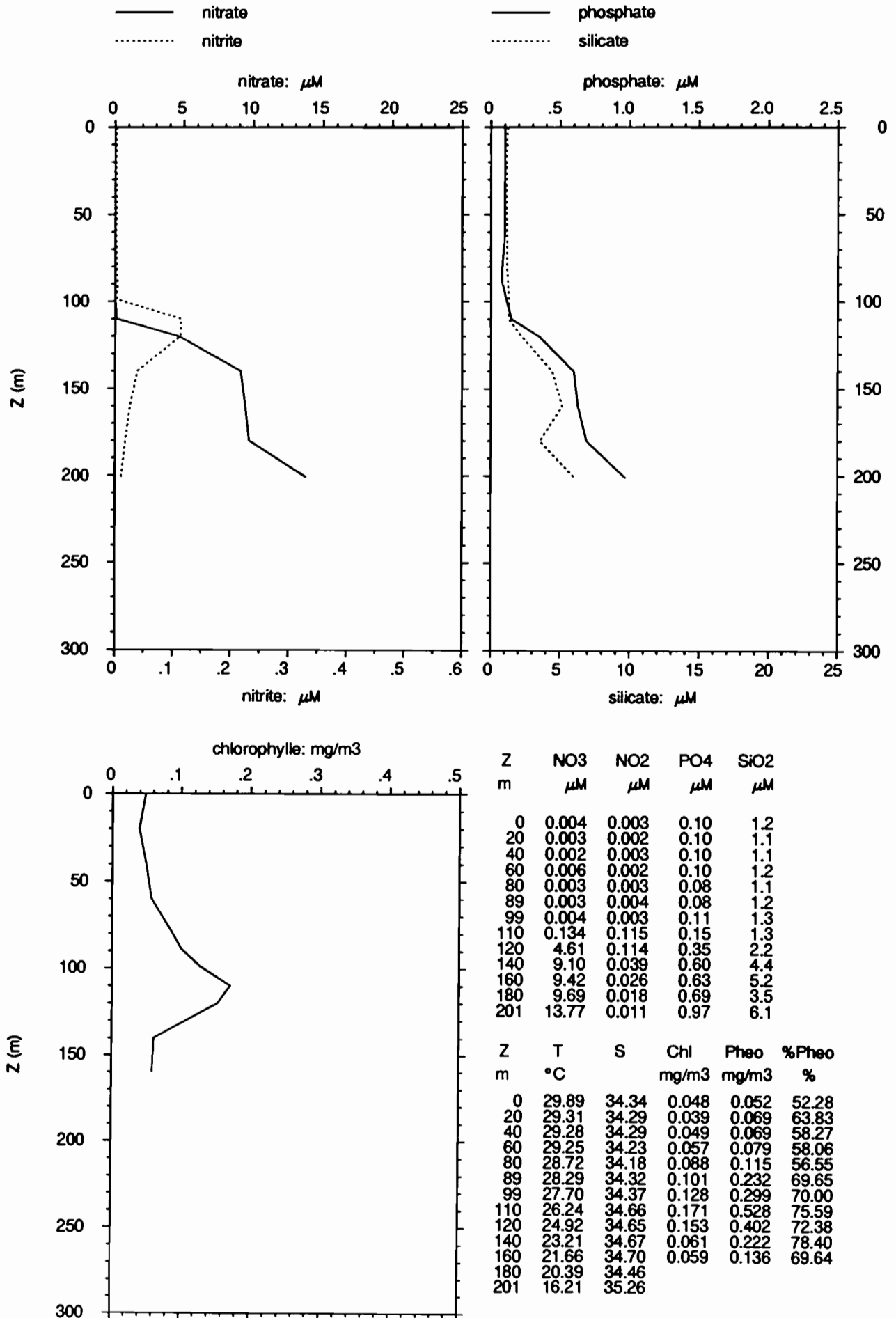
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.384	34.295		
20.0	29.313	34.293		
30.0	29.289	34.293	34.6	38.4
40.0	29.289	34.298	34.5	39.2
50.0	29.271	34.301	29.7	35.1
75.0	28.797	34.373	16.5	15.2
100.0	27.666	34.697	-10.8	12.4
125.0	24.804	35.210	-10.4	24.8
150.0	22.777	35.195	4.8	31.0
200.0	16.252	35.318	5.0	5.3
250.0	12.023	34.875	5.0	-7.5
300.0	10.863	34.794	-8.8	-7.6
400.0	9.979	34.729		
500.0	8.477	34.638		

# EQUALIS - station138

1°45 S 156°10 E

28/11/92, 12h59 TU

28/11/92, 22h59 locale



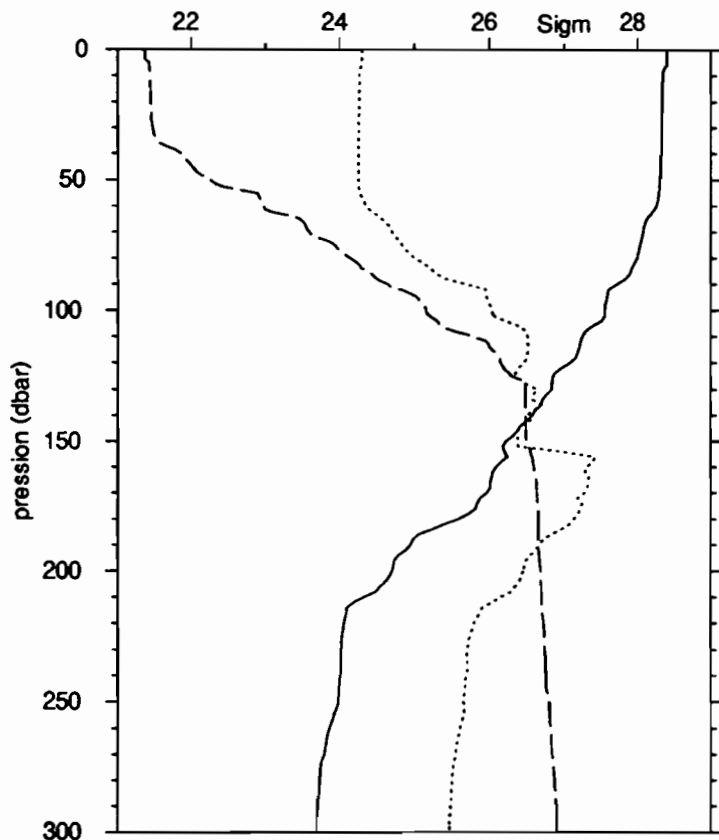
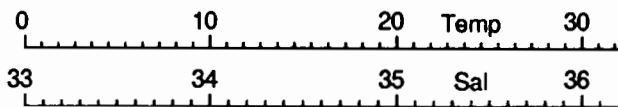


# EQUALIS -station 139

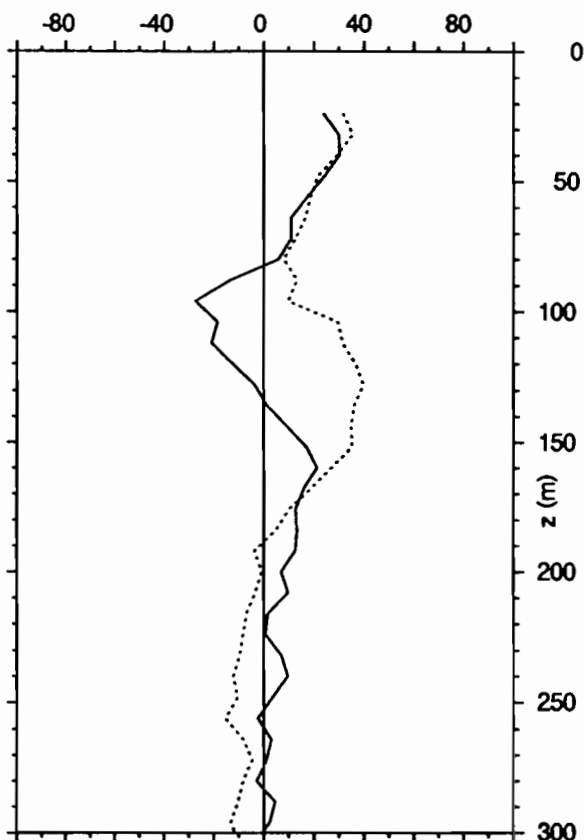
28/11/92, 16h 0 TU

1°45 S 156°10 E

29/11/92, 2h 0 locale



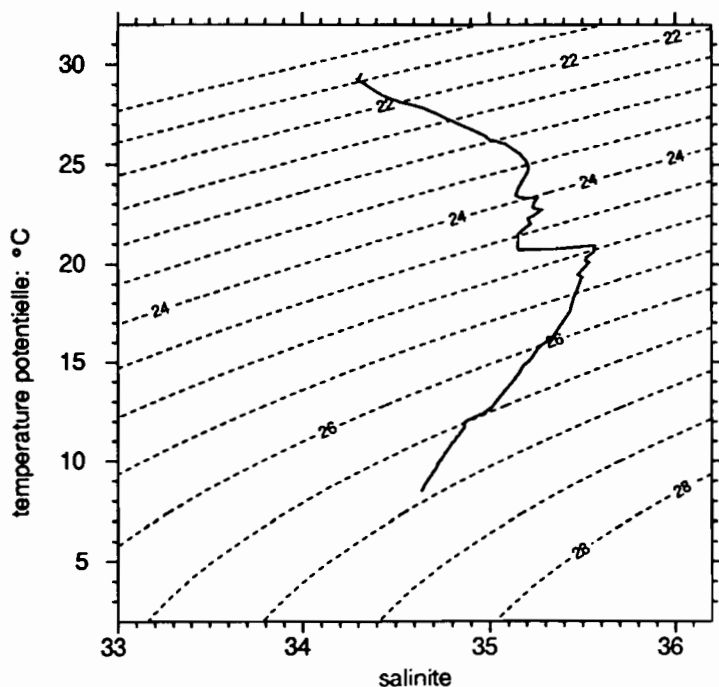
— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3



— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.550	34.319
fin	500.0	8.526	34.639

	Z	U	V
debut	24.0	23.9	31.7
fin	320.0	4.3	-11.8



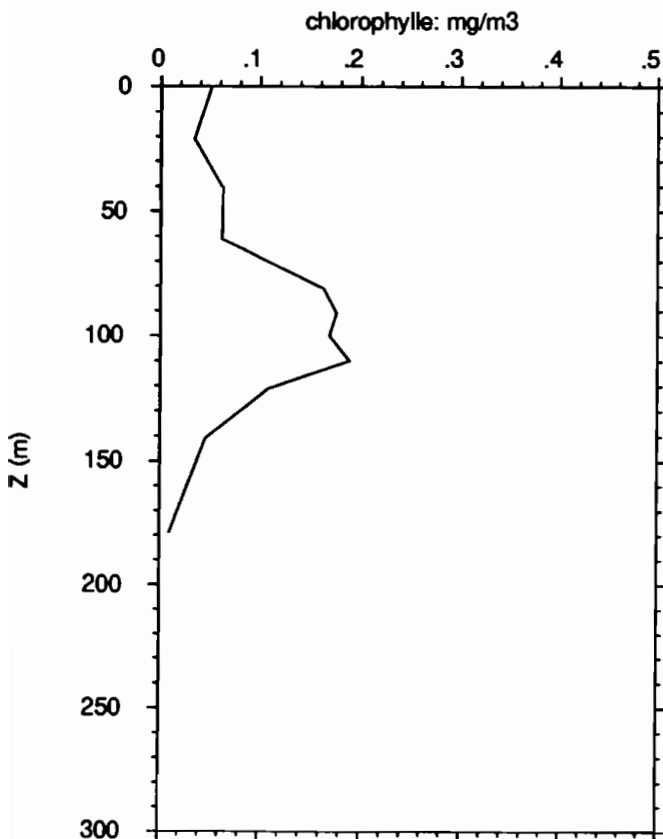
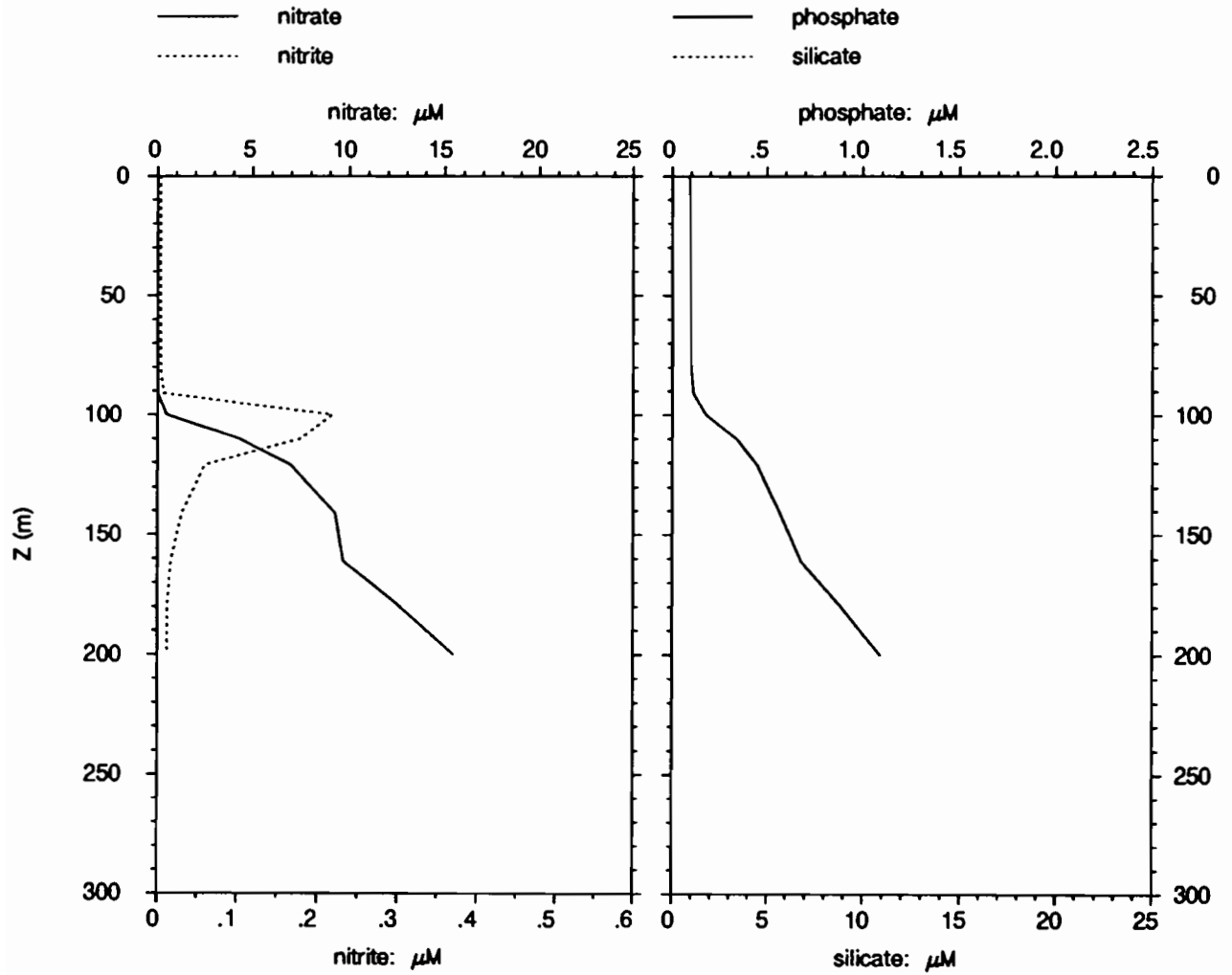
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.346	34.307		
20.0	29.314	34.305		
30.0	29.289	34.304	28.5	34.6
40.0	29.265	34.302	30.3	29.4
50.0	29.201	34.301	22.7	20.9
75.0	28.127	34.534	9.1	11.0
100.0	26.226	35.014	-23.0	19.8
125.0	23.444	35.151	-6.9	38.7
150.0	20.892	35.150	15.3	35.1
200.0	14.831	35.182	7.0	-0.7
250.0	11.948	34.861	2.2	-11.5
300.0	10.752	34.786	-0.4	-11.5
400.0	9.926	34.724		
500.0	8.526	34.639		

# EQUALIS - station139

1°45 S 156°10 E

28/11/92, 16h 0 TU

29/11/92, 2h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.004	0.09	
21	0.002	0.004	0.10	
41	0.003	0.004	0.10	
61	0.002	0.004	0.09	
81	0.002	0.004	0.10	
91	0.002	0.008	0.11	
100	0.489	0.219	0.18	
110	4.27	0.180	0.34	
121	6.97	0.060	0.45	
141	9.26	0.031	0.57	
161	9.68	0.017	0.68	
179	12.49	0.013	0.88	
200	15.45	0.013	1.09	

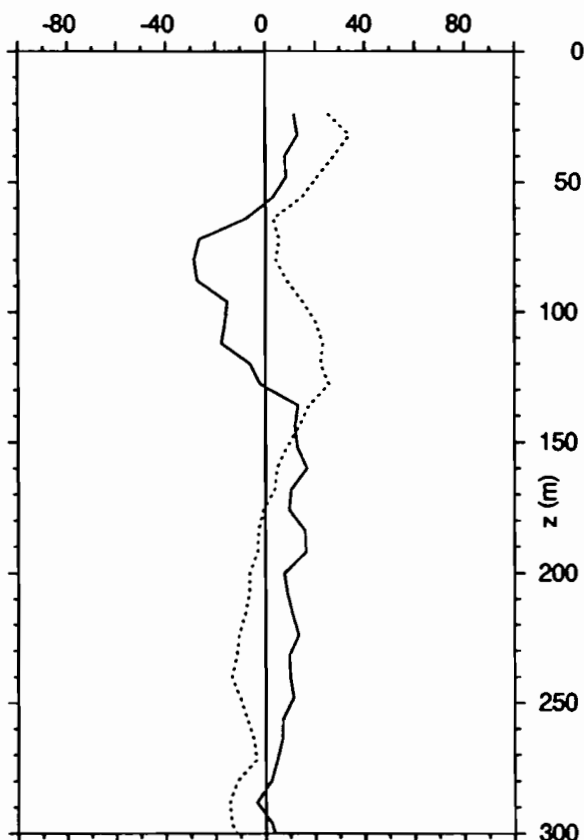
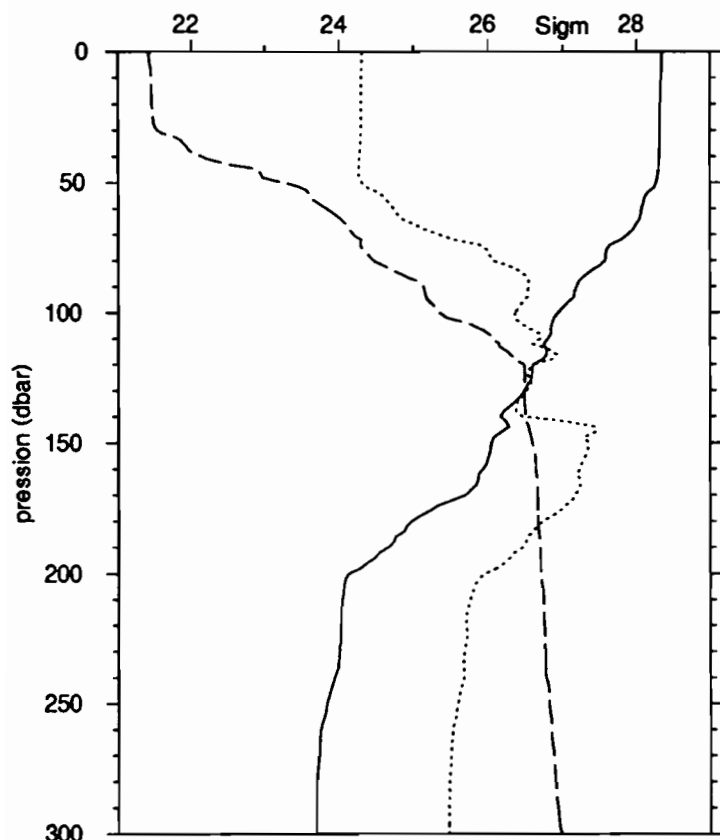
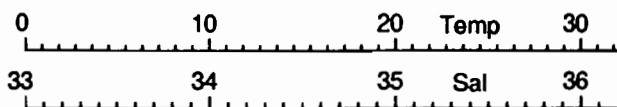
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.71	34.35	0.051	0.030	36.79
21	29.31	34.30	0.034	0.053	61.33
41	29.26	34.28	0.063	0.051	44.44
61	29.09	34.21	0.062	0.092	59.88
81	27.94	34.40	0.163	0.213	56.55
91	27.15	34.28	0.176	0.284	61.79
100	26.24	34.68	0.169	0.364	68.25
110	25.22	34.76	0.189	0.271	58.98
121	23.82	34.39	0.109	0.230	67.82
141	21.62	34.85	0.046	0.122	72.52
161	20.05	34.35	0.027	0.052	65.46
179	16.95	34.45	0.010	0.042	81.52
200	14.27	35.10			

# EQUALIS -station 140

28/11/92, 19h 0 TU

1°45 S 156°10 E

29/11/92, 5h 0 locale

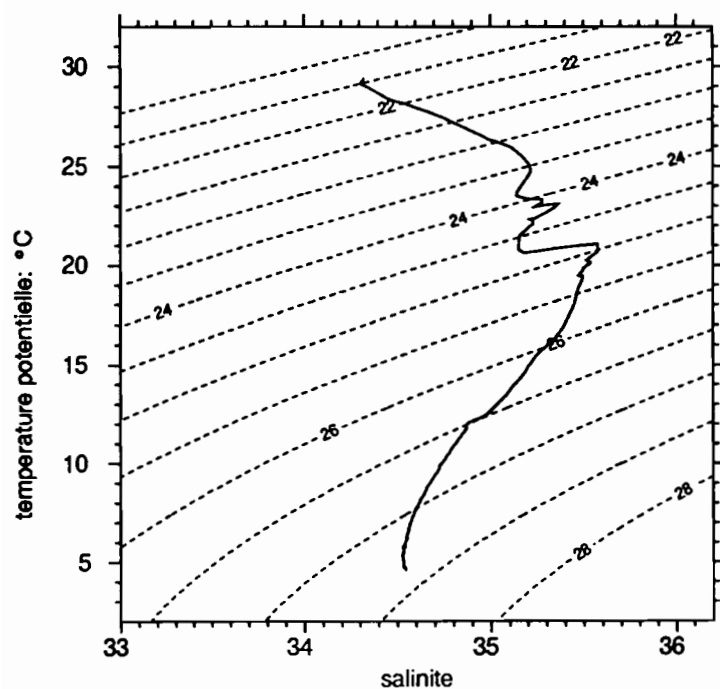


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.395	34.323
fin	998.0	4.663	34.545

	Z	U	V
debut	24.0	11.7	25.4
fin	392.0	3.7	-12.6



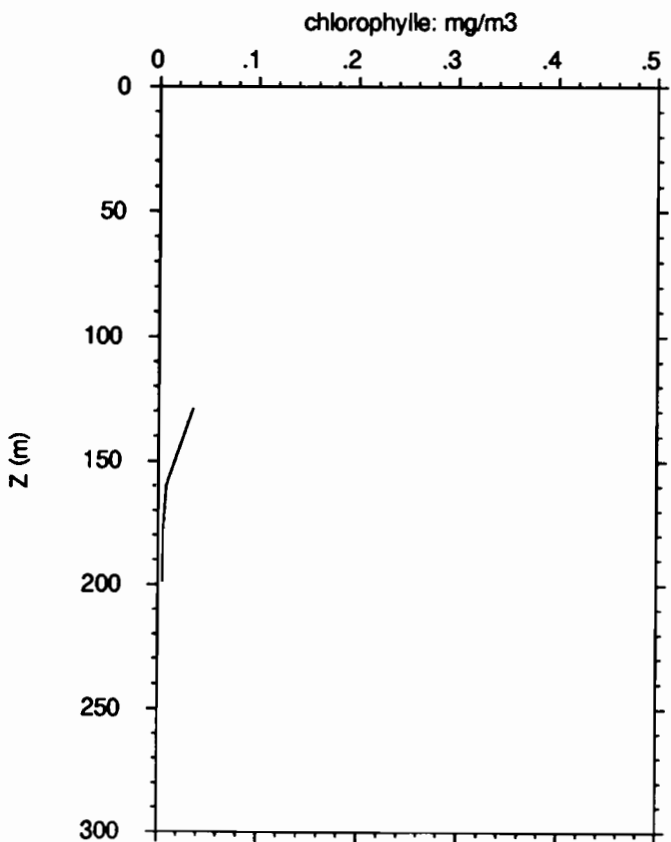
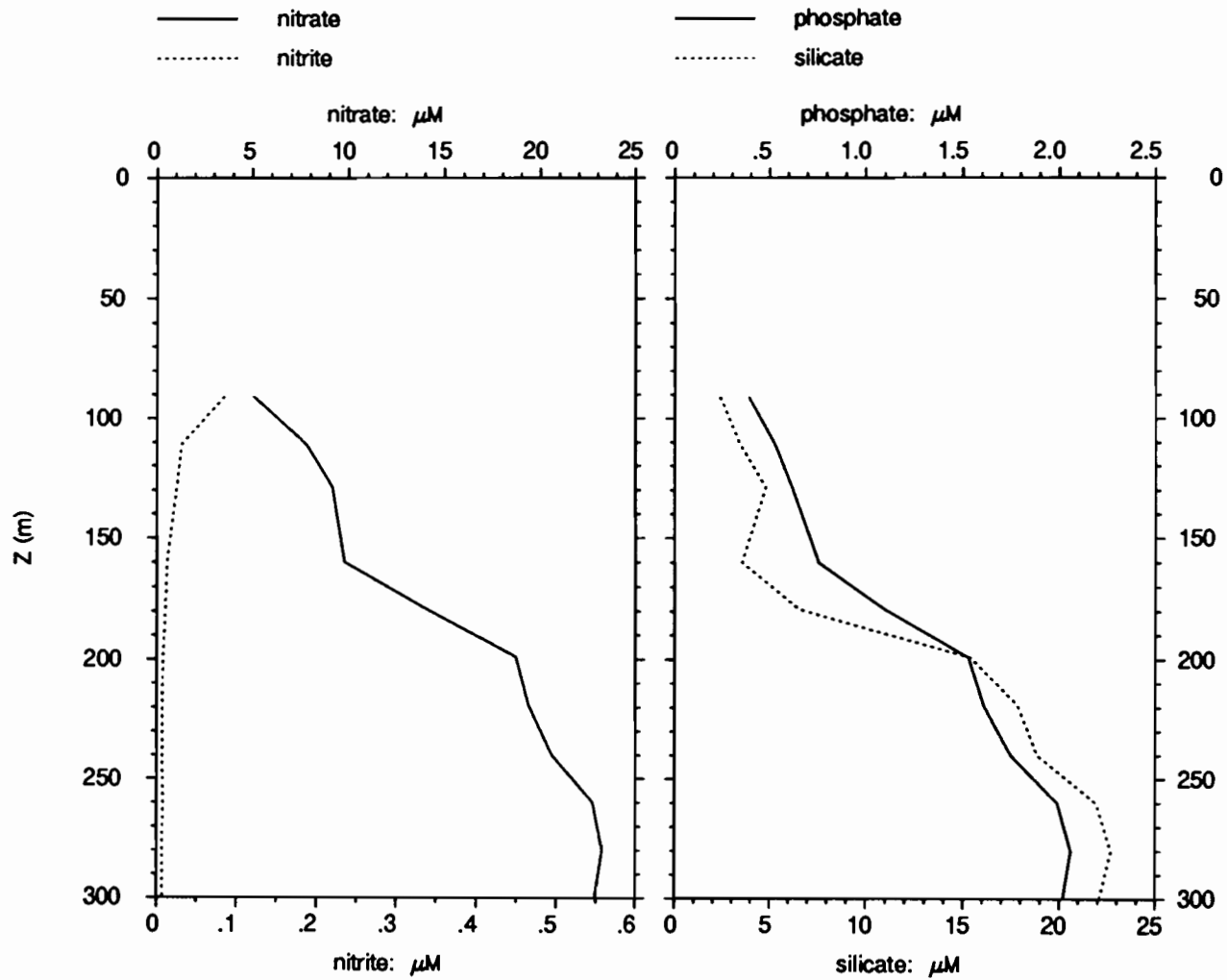
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.335	34.318		
20.0	29.312	34.318		
30.0	29.296	34.319	12.8	31.9
40.0	29.246	34.312	8.0	27.8
50.0	29.068	34.323	7.2	19.5
75.0	26.448	34.975	-27.3	5.1
100.0	23.745	35.146	-15.6	17.6
125.0	22.325	35.220	-3.4	24.4
150.0	20.177	35.537	12.6	9.9
200.0	12.501	34.979	7.6	-6.5
250.0	11.327	34.835	10.2	-9.5
300.0	10.724	34.786	3.7	-11.9
400.0	9.842	34.724		
500.0	7.986	34.613		
600.0	6.508	34.553		
700.0	6.183	34.545		
800.0	5.638	34.532		
900.0	5.027	34.532		

# EQUALIS - station140

1°45 S 156°10 E

28/11/92, 19h 0 TU

29/11/92, 5h 0 locale



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
91	5.06	0.085	0.39	2.4
111	7.79	0.031	0.53	3.4
129	9.15	0.025	0.62	4.8
160	9.78	0.013	0.76	3.5
179	14.05	0.011	1.10	6.6
199	18.72	0.008	1.53	15.4
219	19.39	0.007	1.61	17.9
240	20.62	0.007	1.75	18.9
260	22.75	0.008	1.99	21.9
280	23.25	0.007	2.06	22.7
300	22.86	0.007	2.02	22.1
1001	27.62	0.004	2.86	61.4

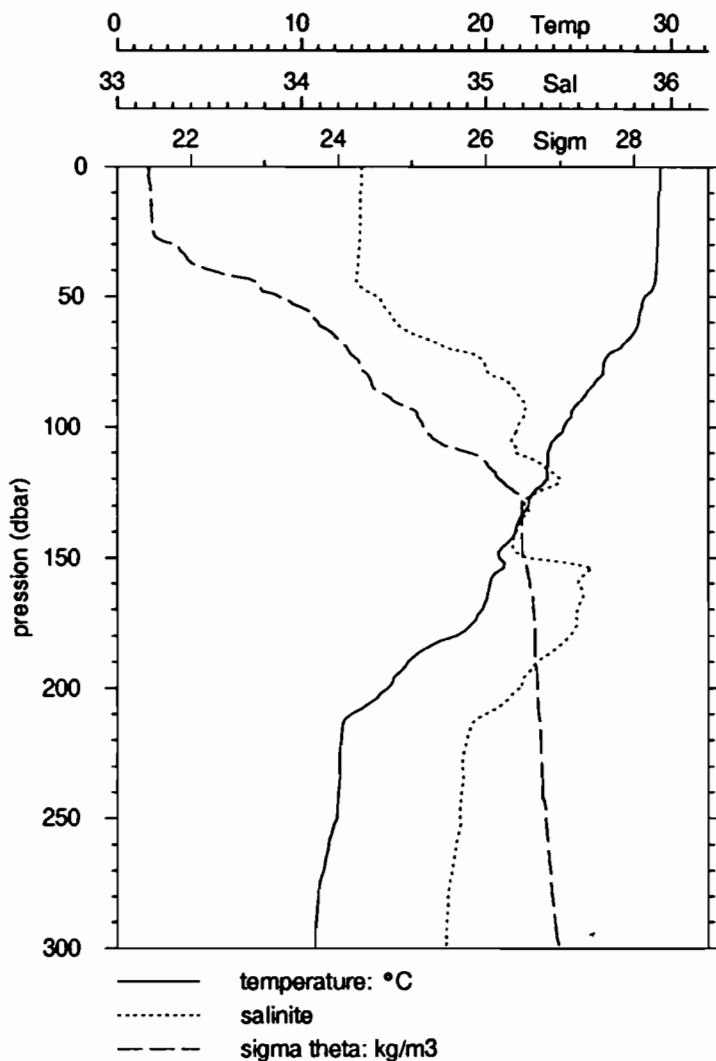
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
91	24.78	35.19			
111	23.20	35.02			
129	21.83	35.16	0.035	0.166	82.51
160	19.31	34.06	0.008	0.042	83.91
179	15.37	34.00	0.005	0.021	80.55
199	12.28	34.73	0.005	0.023	83.26
219	12.09	34.79			
240	11.63	34.58			
260	10.98	34.70			
280	10.76	34.77			
300	10.72	34.78			
1001	4.66	34.54			

# EQUALIS -station 141

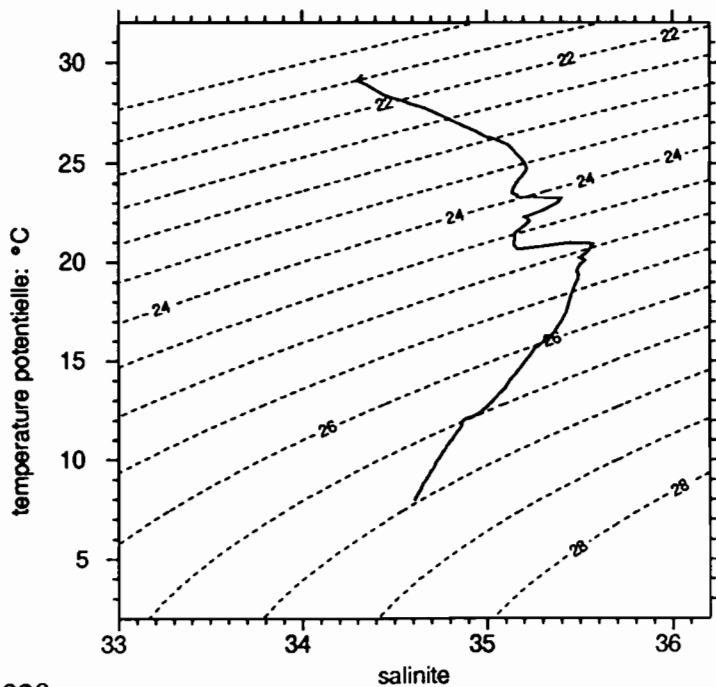
28/11/92, 20h15 TU

1°45 S 156°10 E

29/11/92, 6h15 locale



	P	T	S
debut	6.0	29.405	34.326
fin	498.0	7.994	34.607



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.355	34.320		
20.0	29.301	34.318		
30.0	29.271	34.316		
40.0	29.197	34.304		
50.0	28.560	34.416		
75.0	26.387	34.986		
100.0	24.181	35.170		
125.0	22.572	35.276		
150.0	20.737	35.221		
200.0	14.712	35.182		
250.0	11.934	34.863		
300.0	10.749	34.785		
400.0	9.858	34.720		

# EQUALIS - station141

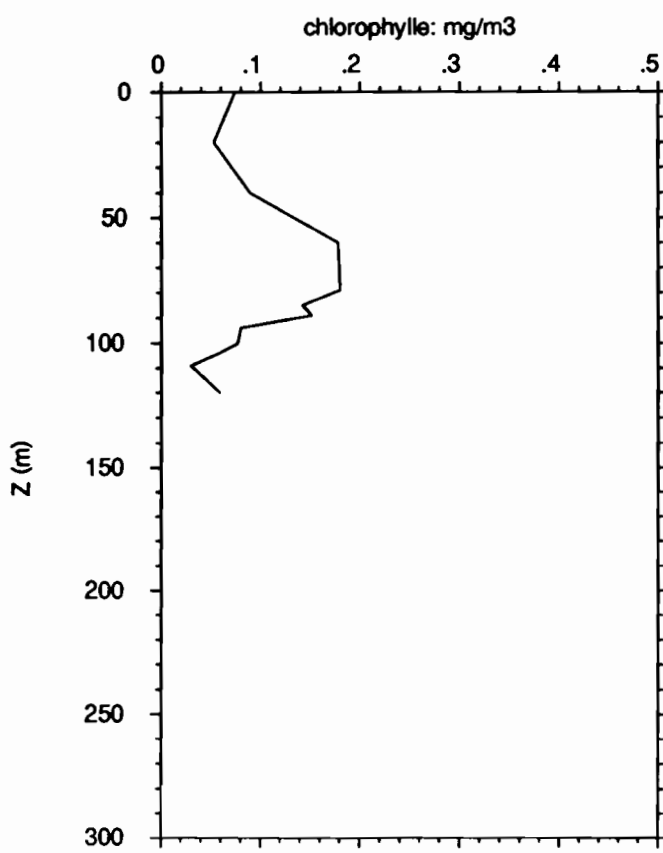
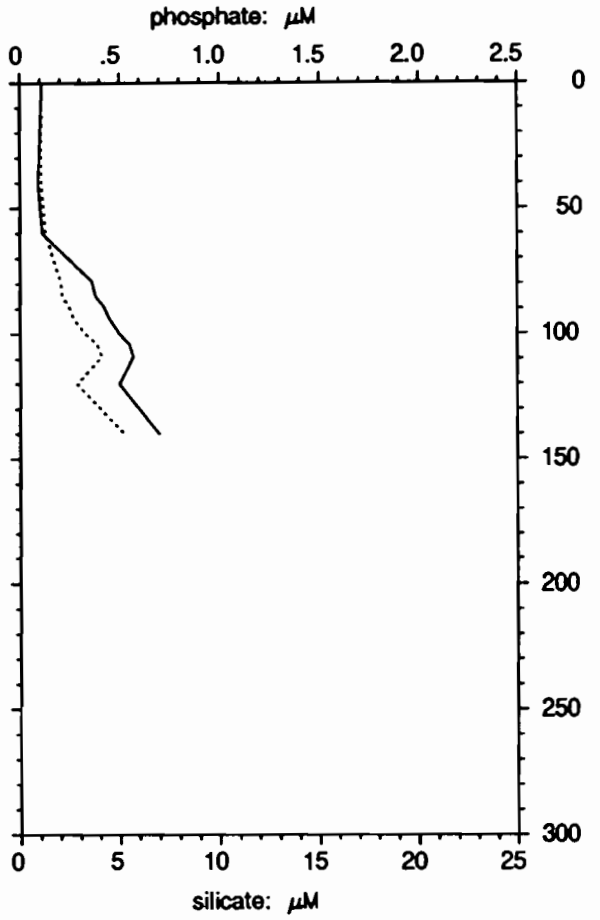
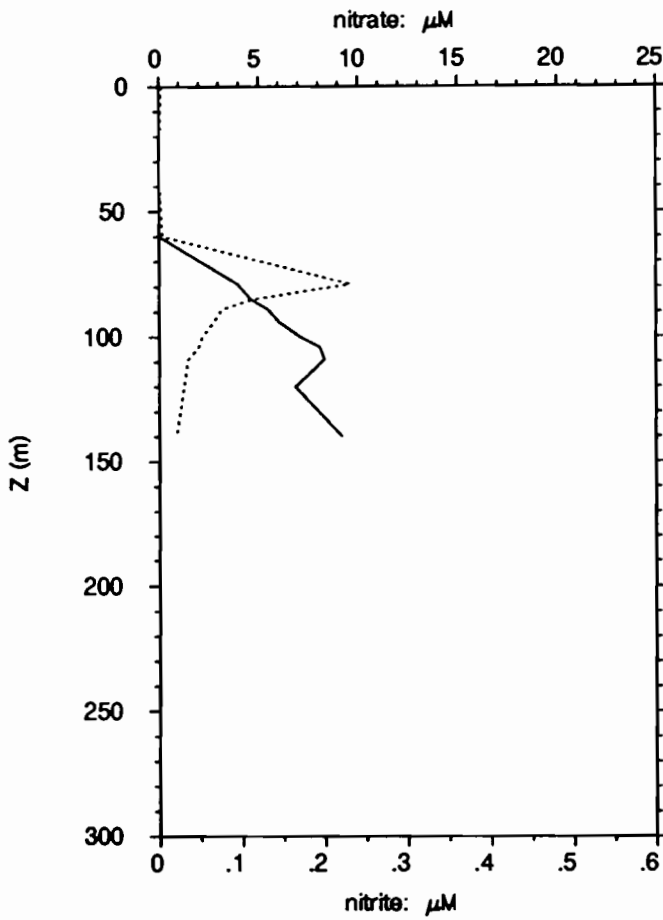
1°45 S 156°10 E

28/11/92, 20h15 TU

29/11/92, 6h15 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.003	0.11	1.1
20	0.003	0.001	0.10	1.1
40	0.000	0.001	0.09	1.1
60	0.002	0.004	0.11	1.3
79	3.95	0.231	0.36	2.0
85	4.62	0.113	0.38	2.1
89	5.47	0.076	0.42	2.4
94	6.03	0.066	0.45	2.7
100	7.09	0.052	0.50	3.3
104	8.08	0.048	0.55	3.9
109	8.33	0.035	0.57	4.1
120	6.85	0.030	0.50	2.8
140	9.22	0.021	0.70	5.2

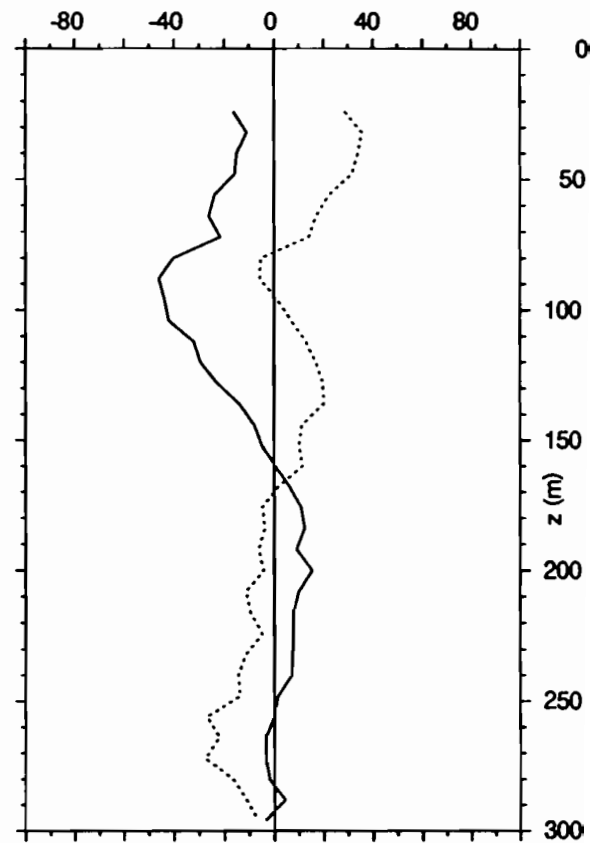
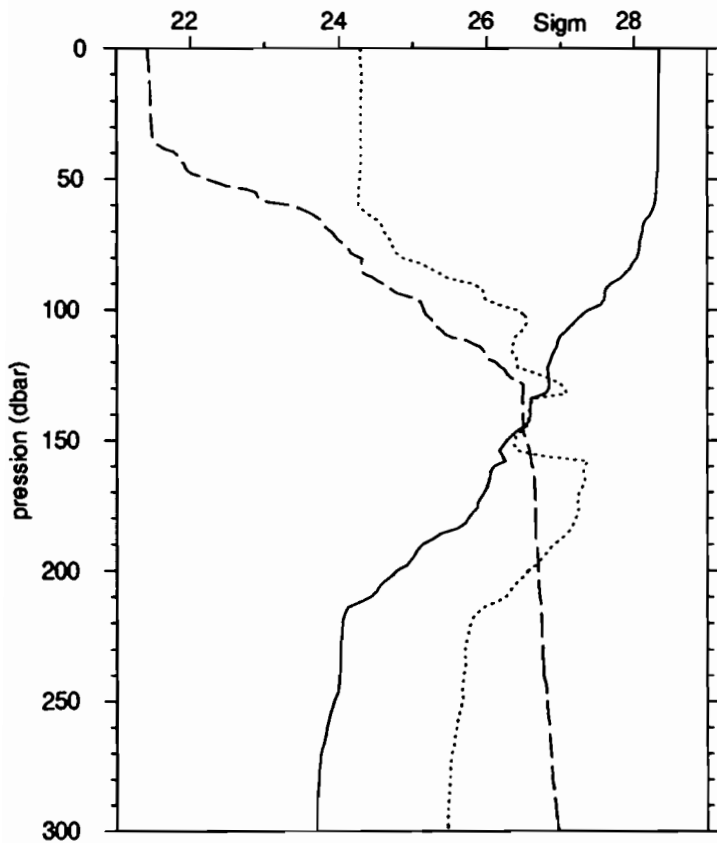
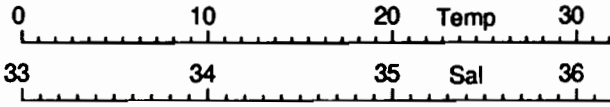
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.53	34.35	0.074	0.052	41.09
20	29.30	34.23	0.053	0.064	54.84
40	29.09	33.88	0.089	0.076	45.95
60	27.79	34.38	0.178	0.360	66.93
79	25.67	34.94	0.180	0.480	72.76
85	25.13	34.95	0.142	0.458	76.36
89	24.74	34.98	0.152	0.742	83.01
94	24.58	34.87	0.080	0.338	80.81
100	24.13	34.88	0.077	0.334	81.33
104	23.58	34.99	0.058	0.184	75.91
109	23.31	35.19	0.030	0.081	72.85
120	23.32	34.58	0.059	0.089	60.31
140	21.49	35.13			

# EQUALIS -station 142

1°45 S 156°10 E

28/11/92, 22h 7 TU

29/11/92, 8h 7 locale

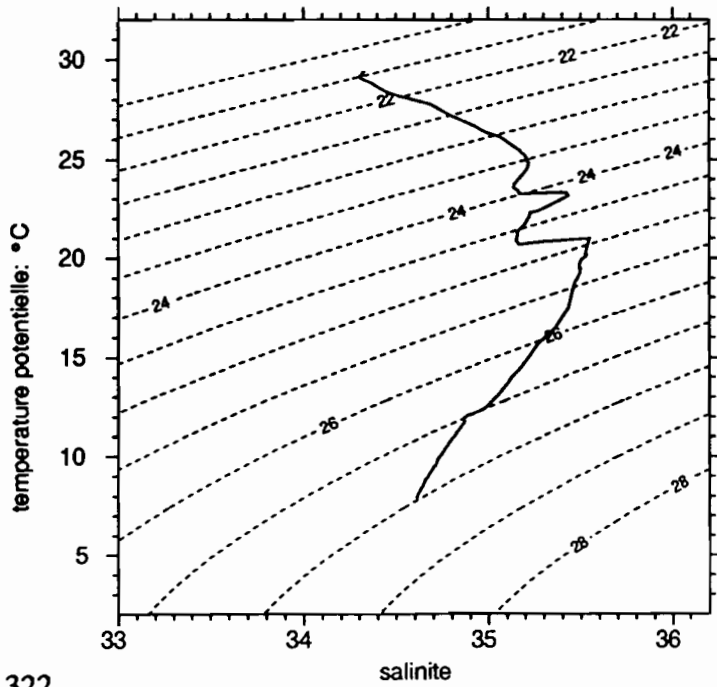


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.373	34.315
fin	502.0	7.951	34.607

	Z	U	V
debut	24.0	-16.2	28.8
fin	392.0	5.2	-28.9



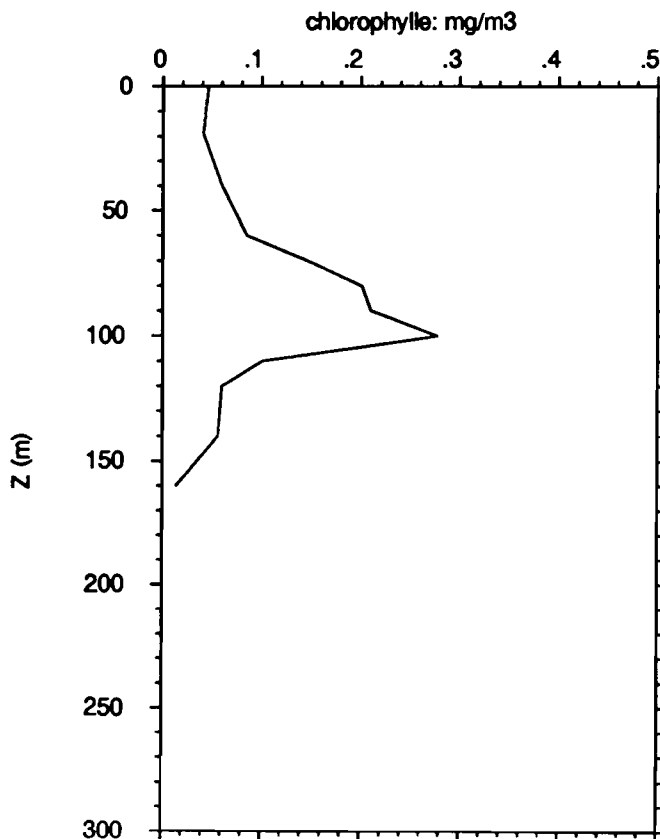
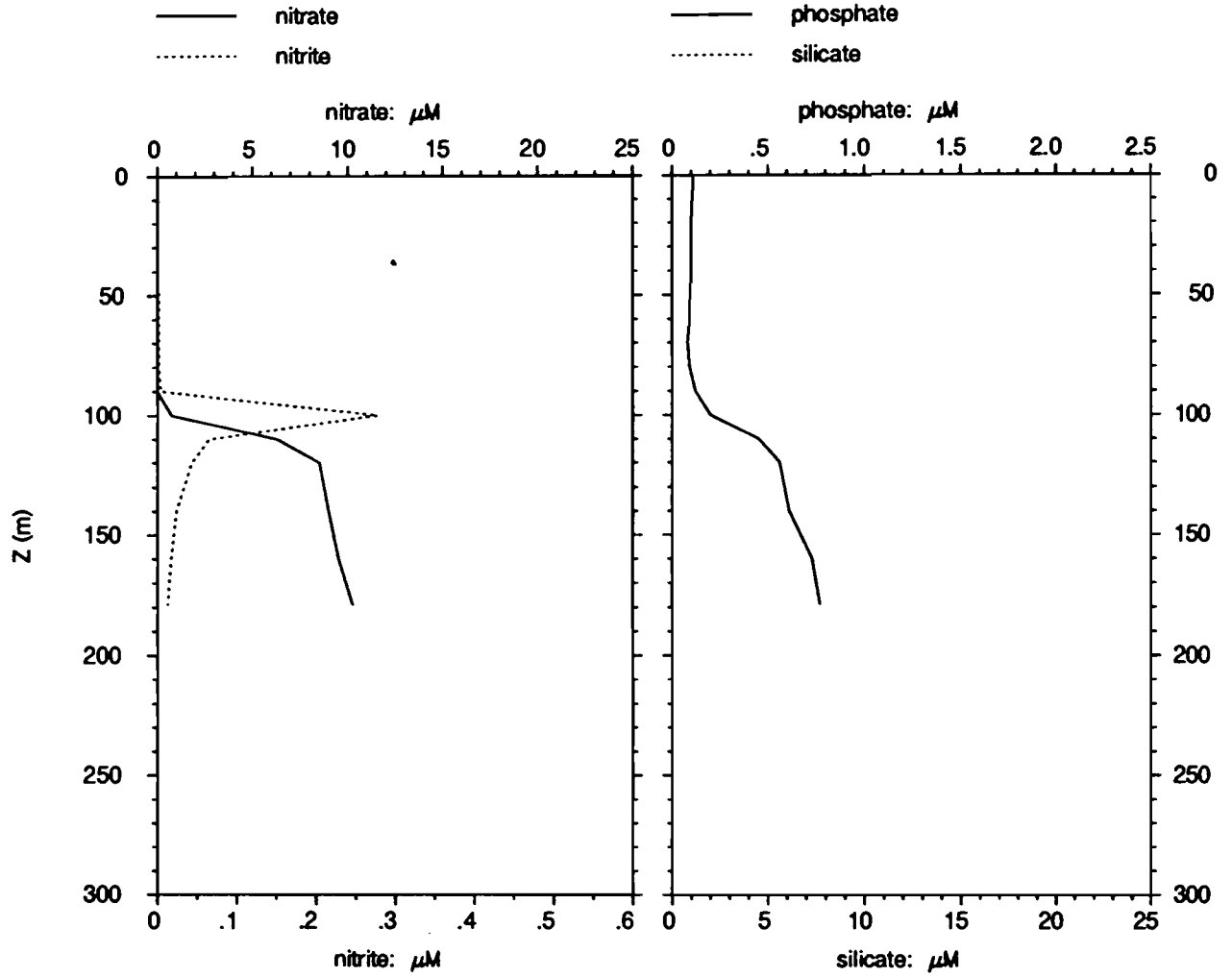
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.364	34.323		
20.0	29.312	34.318		
30.0	29.296	34.318	-12.2	34.0
40.0	29.288	34.317	-14.9	34.1
50.0	29.228	34.311	-17.7	29.4
75.0	28.275	34.488	-28.5	6.8
100.0	25.494	35.167	-42.8	4.2
125.0	23.338	35.292	-25.3	18.8
150.0	21.108	35.156	-5.7	10.4
200.0	15.120	35.224	15.4	-4.1
250.0	11.717	34.866	15.4	-17.0
300.0	10.750	34.786	-3.0	-7.5
400.0	9.851	34.721		
500.0	8.012	34.612		

# EQUALIS - station142

1°45 S 156°10 E

28/11/92, 22h 7 TU

29/11/92, 8h 7 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.009	0.002	0.11	
19	0.000	0.001	0.10	
40	0.000	0.001	0.10	
60	0.000	0.002	0.09	
70	0.000	0.002	0.08	
80	0.002	0.002	0.09	
90	0.000	0.004	0.12	
100	0.734	0.277	0.20	
110	6.30	0.065	0.45	
120	8.52	0.043	0.56	
140	8.99	0.024	0.61	
160	9.50	0.017	0.73	
179	10.23	0.013	0.77	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.46	34.06	0.046	0.072	60.70
19	29.31	34.30	0.041	0.053	56.36
40	29.28	34.25	0.060	0.071	53.99
60	29.05	34.15	0.085	0.084	49.67
70	28.45	34.24	0.147	0.114	43.65
80	28.15	34.28	0.201	0.167	45.42
90	28.09	34.52	0.210	0.403	65.76
100	26.30	34.38	0.278	0.609	68.64
110	24.18	34.90	0.101	0.344	77.32
120	23.44	34.97	0.060	0.219	78.45
140	22.09	34.03	0.056	0.097	63.54
160	20.24	35.50	0.014	0.050	78.11
179	18.92	35.43			

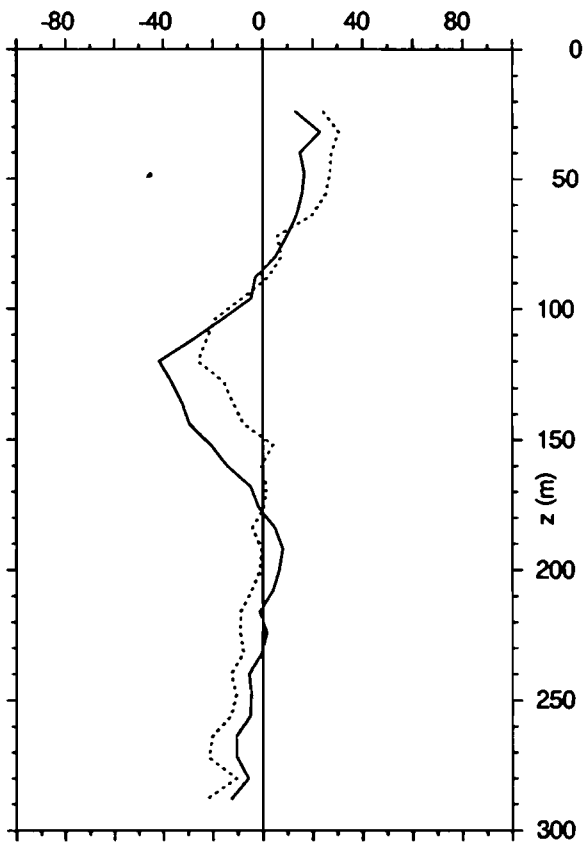
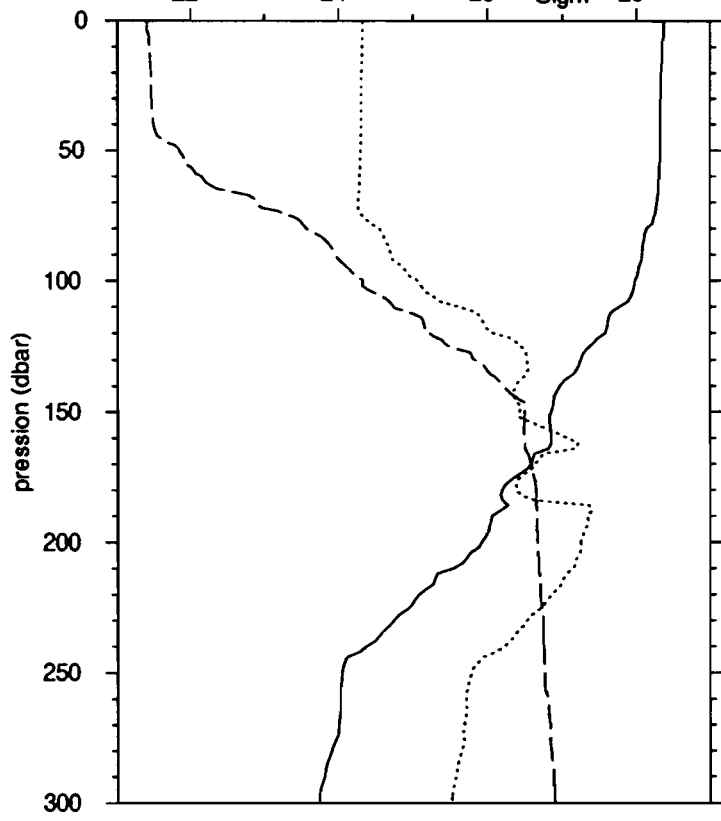
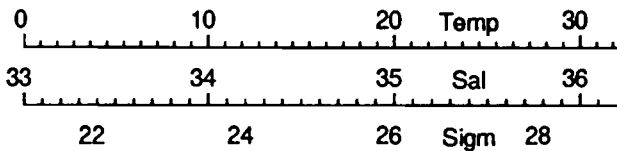


# EQUALIS -station 143

1°45 S 156°10 E

29/11/92, 1h 0 TU

29/11/92, 11h 0 locale

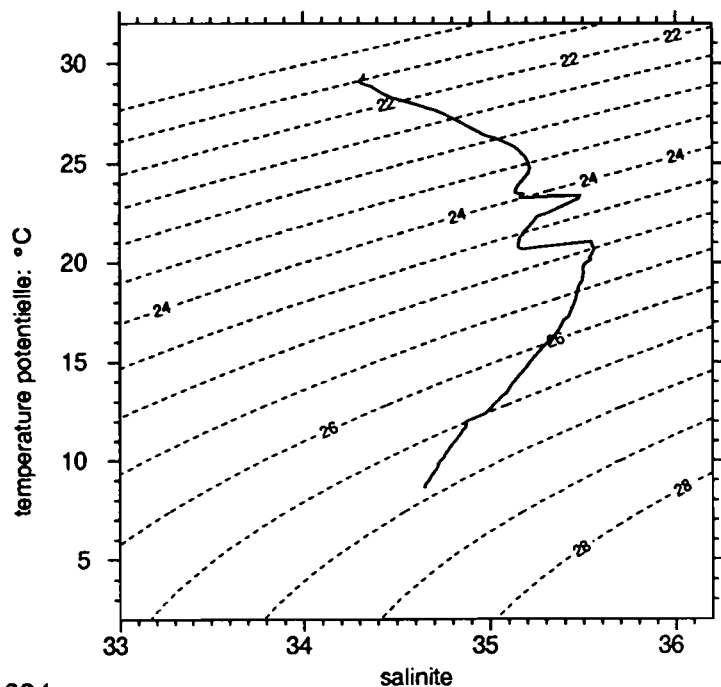


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.474	34.328
fin	506.0	8.663	34.648

	Z	U	V
debut	24.0	13.1	24.4
fin	288.0	-12.7	-22.6



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.395	34.326		
20.0	29.348	34.321		
30.0	29.317	34.322	20.7	29.0
40.0	29.296	34.321	15.2	27.7
50.0	29.276	34.317	16.6	26.8
75.0	28.986	34.328	8.2	6.6
100.0	27.929	34.627	-10.4	-13.7
125.0	25.469	35.178	-38.3	-19.3
150.0	23.397	35.171	-23.0	1.2
200.0	19.712	35.498	6.7	-1.0
250.0	12.181	34.914	-4.6	-11.2
300.0	10.931	34.805		
400.0	10.044	34.735		
500.0	8.768	34.653		

# EQUALIS - station143

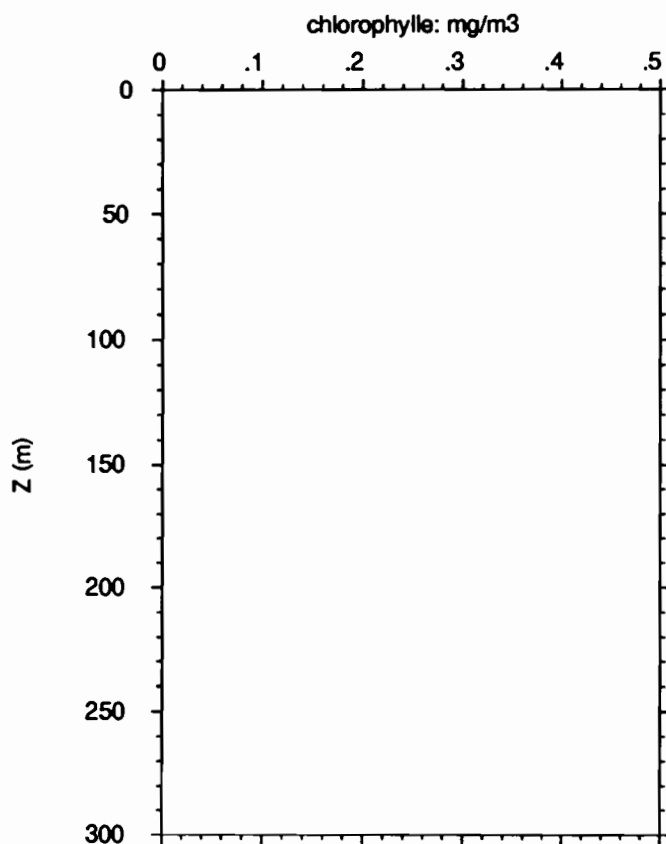
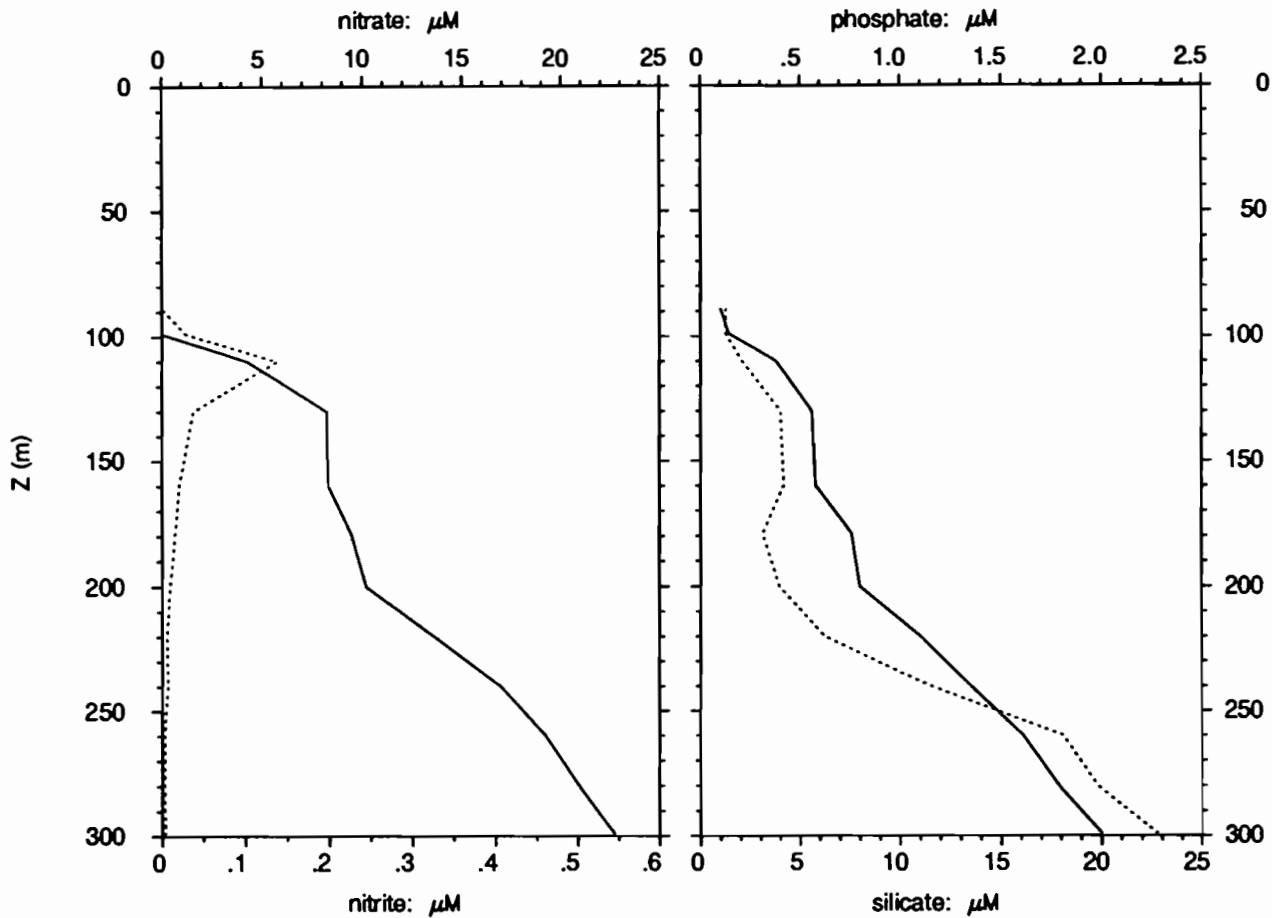
1°45 S 156°10 E

29/11/92, 1h 0 TU

29/11/92, 11h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
89	0.001	0.001	0.10	1.3
99	0.023	0.029	0.14	1.2
110	4.30	0.138	0.38	2.1
130	8.20	0.038	0.56	4.0
160	8.29	0.021	0.58	4.2
179	9.43	0.016	0.76	3.1
200	10.18	0.010	0.80	4.0
220	13.60	0.006	1.10	6.2
240	16.93	0.007	1.35	11.5
260	19.19	0.003	1.61	18.1
280	20.91	0.003	1.79	19.8
299	22.69	0.004	2.00	22.8

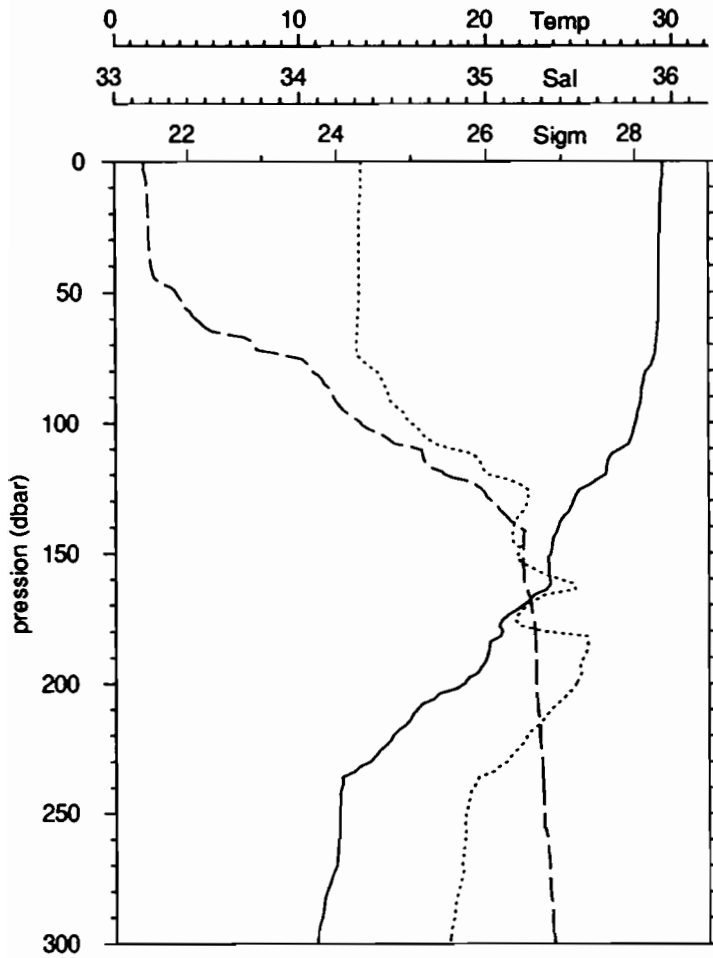
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
89	27.81	34.36			
99	26.51	34.90			
110	25.27	34.88			
130	23.57	35.11			
160	22.30	35.06			
179	20.78	35.41			
200	18.91	34.95			
220	15.84	34.14			
240	12.93	34.10			
260	12.06	34.67			
280	11.55	34.35			
299	10.91	34.79			

# EQUALIS -station 144

1°45 S 156°10 E

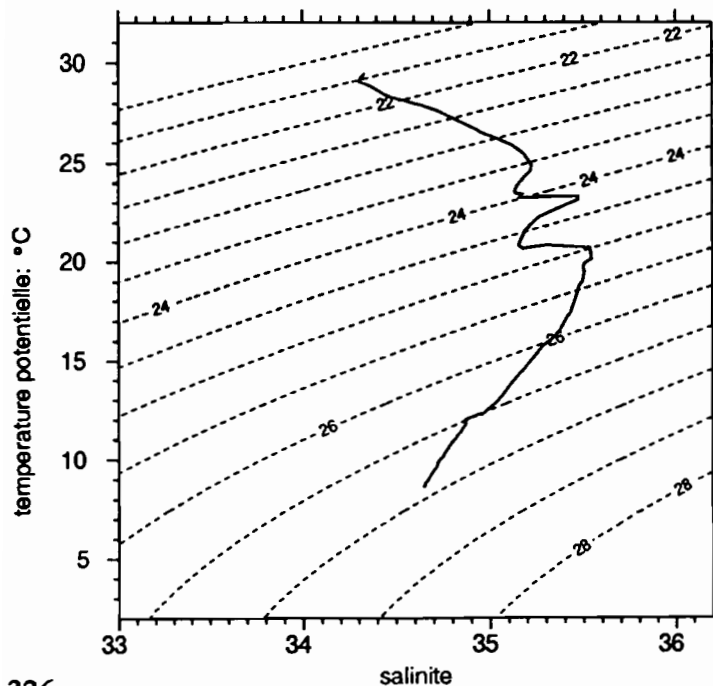
29/11/92, 1h47 TU

29/11/92, 11h47 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.482	34.329
fin	504.0	8.640	34.647



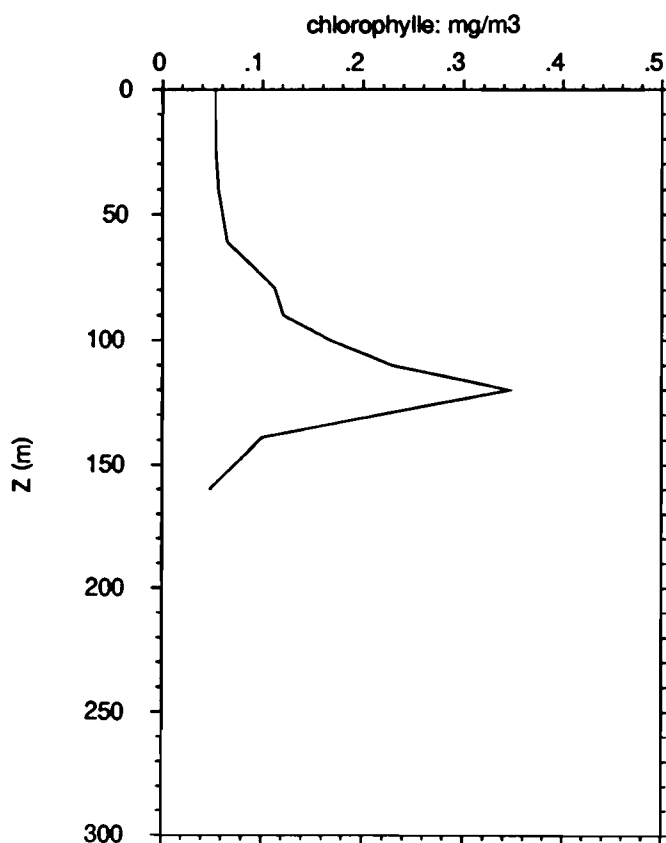
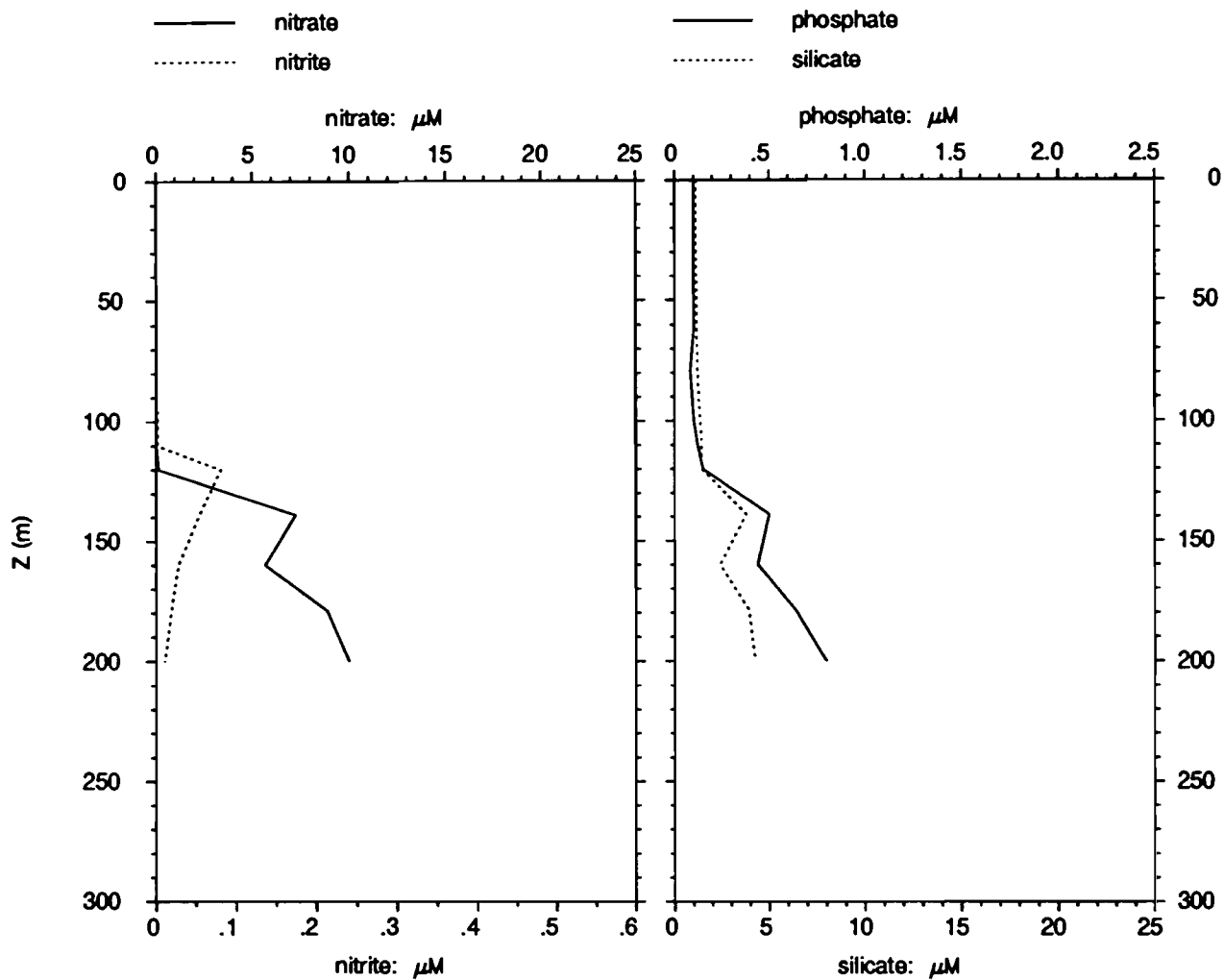
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.416	34.328		
20.0	29.333	34.320		
30.0	29.309	34.318		
40.0	29.300	34.319		
50.0	29.286	34.319		
75.0	29.002	34.322		
100.0	28.000	34.598		
125.0	25.222	35.203		
150.0	23.423	35.171		
200.0	18.832	35.478		
250.0	12.089	34.888		
300.0	10.917	34.802		
400.0	10.041	34.735		
500.0	8.667	34.649		

# EQUALIS - station144

1° 45 S 156° 10 E

29/11/92, 1h47 TU

29/11/92, 11h47 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.001	0.10	1.1
20	0.002	0.000	0.10	1.1
40	0.000	0.001	0.10	1.1
61	0.000	0.000	0.10	1.1
79	0.000	0.000	0.08	1.2
90	0.000	0.001	0.09	1.3
100	0.000	0.002	0.10	1.4
110	0.000	0.002	0.12	1.4
120	0.142	0.081	0.15	1.4
139	7.25	0.054	0.50	3.8
160	5.68	0.028	0.44	2.4
179	8.88	0.019	0.64	3.9
200	10.02	0.011	0.80	4.3

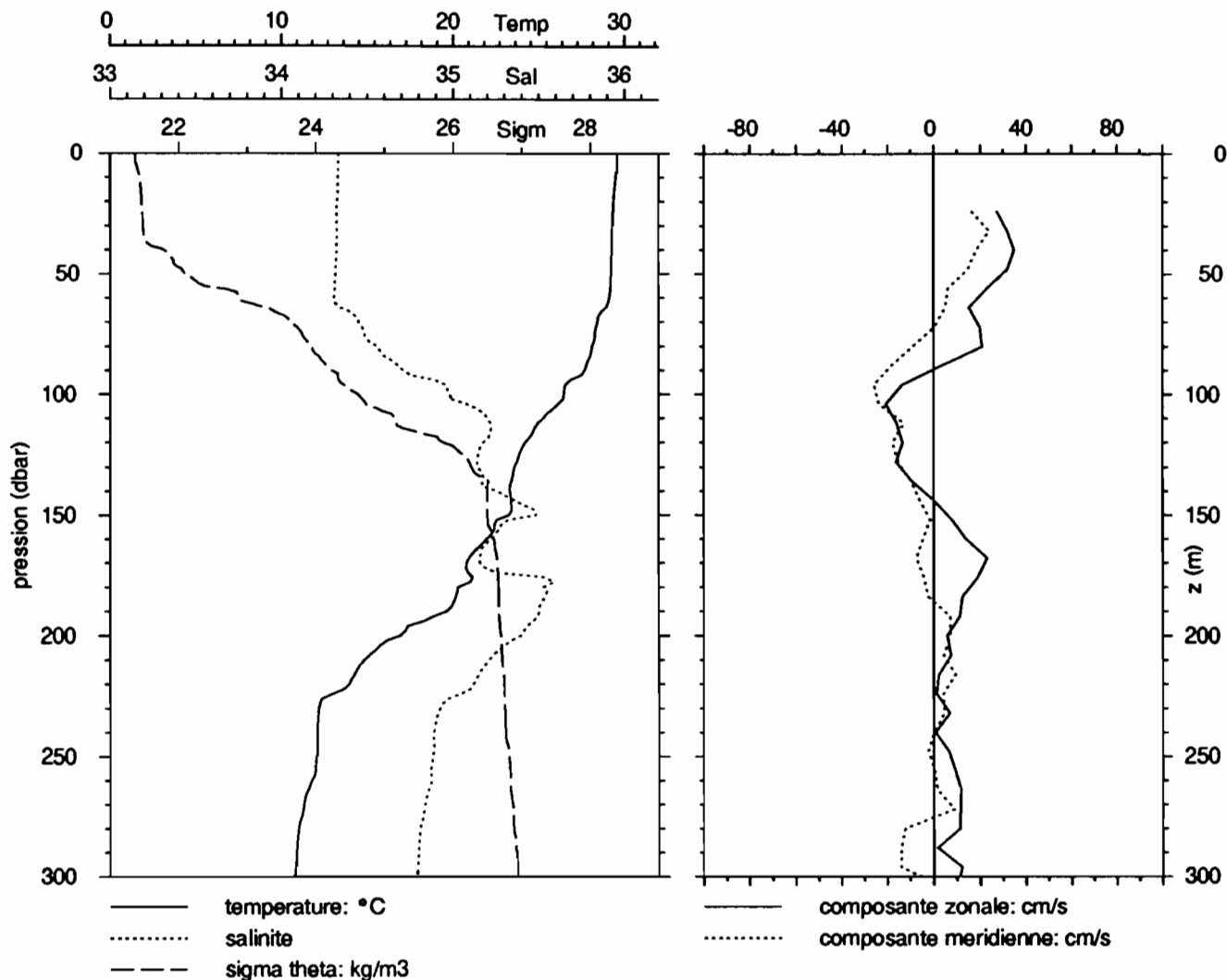
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.14	34.36	0.053	0.050	48.15
20	29.33	34.31	0.053	0.070	56.93
40	29.29	34.31	0.056	0.069	55.09
61	29.24	34.31	0.065	0.074	53.22
79	28.70	34.18	0.112	0.096	46.17
90	28.31	34.38	0.121	0.133	52.35
100	28.00	34.45	0.168	0.176	51.07
110	27.41	34.50	0.229	0.246	51.77
120	26.43	33.83	0.346	0.588	62.90
139	23.85	34.86	0.100	0.250	71.40
160	23.24	34.14	0.048	0.066	57.88
179	20.93	34.38			
200	18.18	35.40			

# EQUALIS -station 145

1°45 S 156°10 E

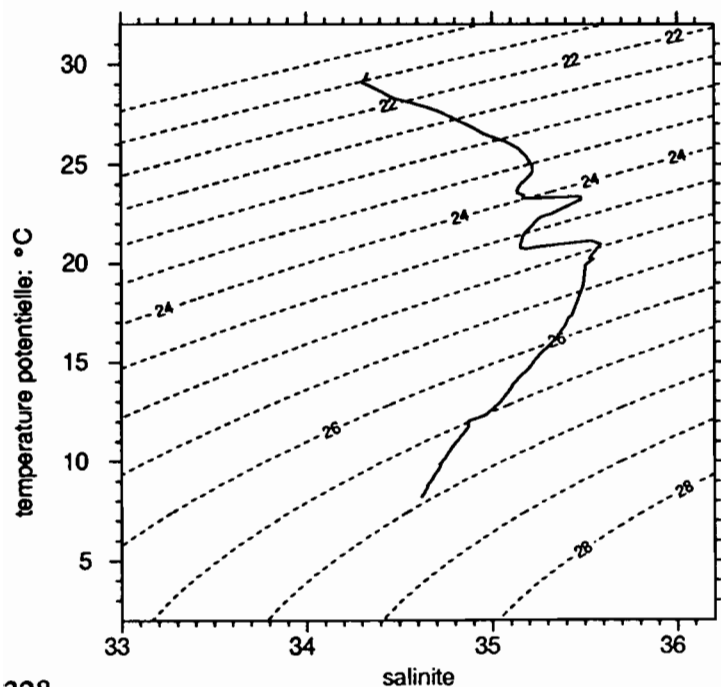
29/11/92, 4h 0 TU

29/11/92, 14h 0 locale



	P	T	S
debut	6.0	29.587	34.332
fin	500.0	8.205	34.618

	Z	U	V
debut	24.0	27.4	16.3
fin	400.0	1.5	-22.0



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.496	34.330		
20.0	29.375	34.326		
30.0	29.310	34.324	30.8	22.1
40.0	29.283	34.323	35.0	18.4
50.0	29.235	34.316	29.8	12.7
75.0	28.292	34.484	20.3	-3.0
100.0	26.464	34.978	-17.0	-24.8
125.0	23.845	35.144	-15.1	-16.2
150.0	23.255	35.482	6.0	-2.6
200.0	16.886	35.395	5.9	7.1
250.0	12.033	34.880	7.3	-1.5
300.0	10.769	34.789	11.4	-5.2
400.0	9.862	34.720		
500.0	8.205	34.618		

# EQUALIS - station145

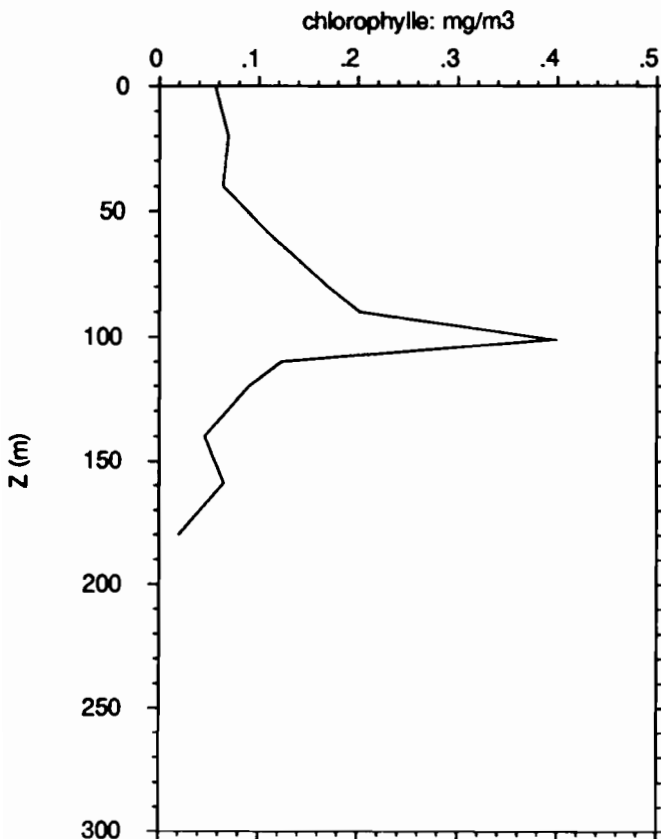
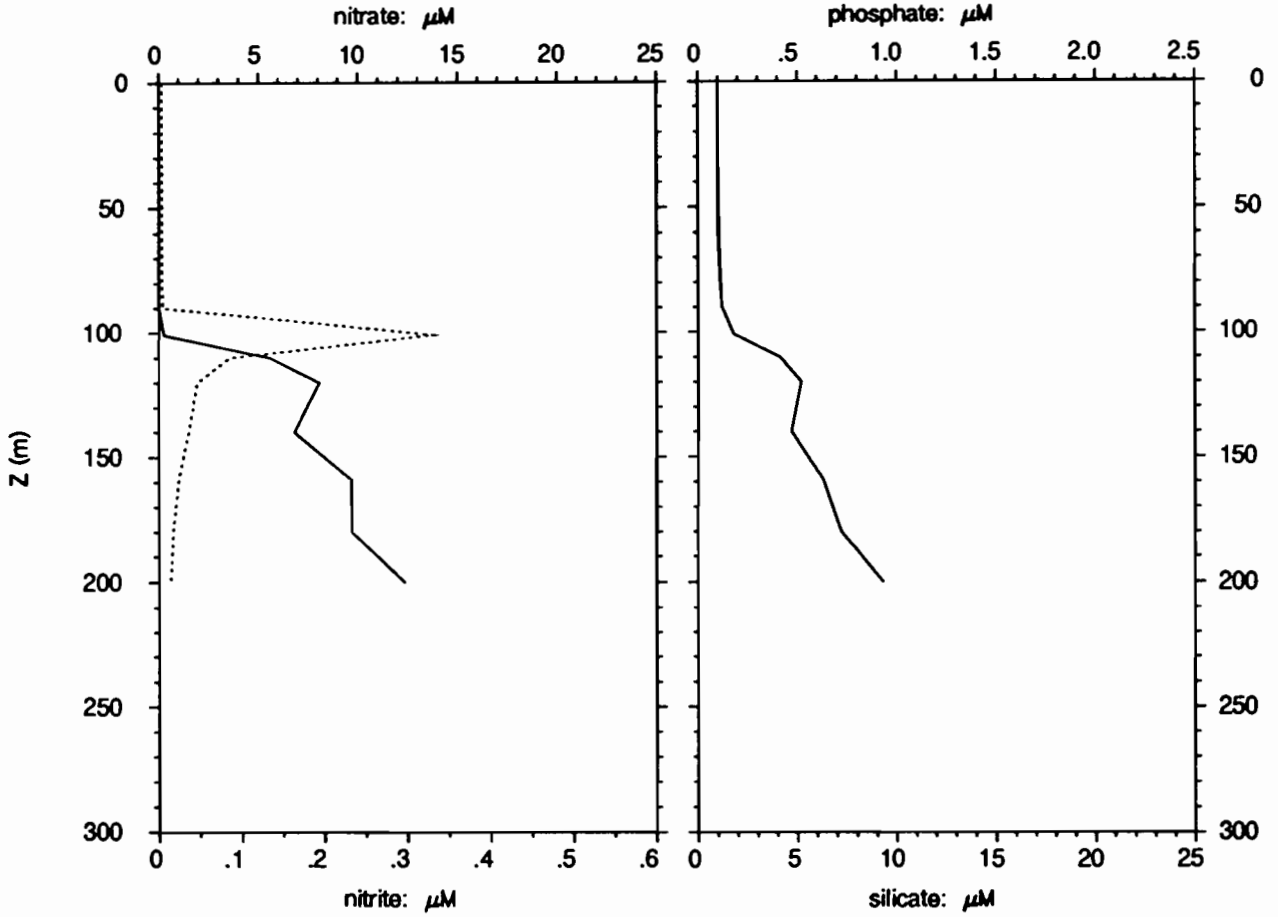
1°45 S 156°10 E

29/11/92, 4h 0 TU

29/11/92, 14h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.004	0.10	
20	0.000	0.004	0.10	
40	0.000	0.004	0.10	
60	0.000	0.004	0.10	
80	0.000	0.004	0.11	
90	0.000	0.005	0.12	
101	0.261	0.331	0.18	
110	5.55	0.085	0.41	
120	8.05	0.046	0.52	
140	6.81	0.036	0.47	
159	9.68	0.024	0.63	
180	9.69	0.017	0.72	
200	12.34	0.014	0.93	

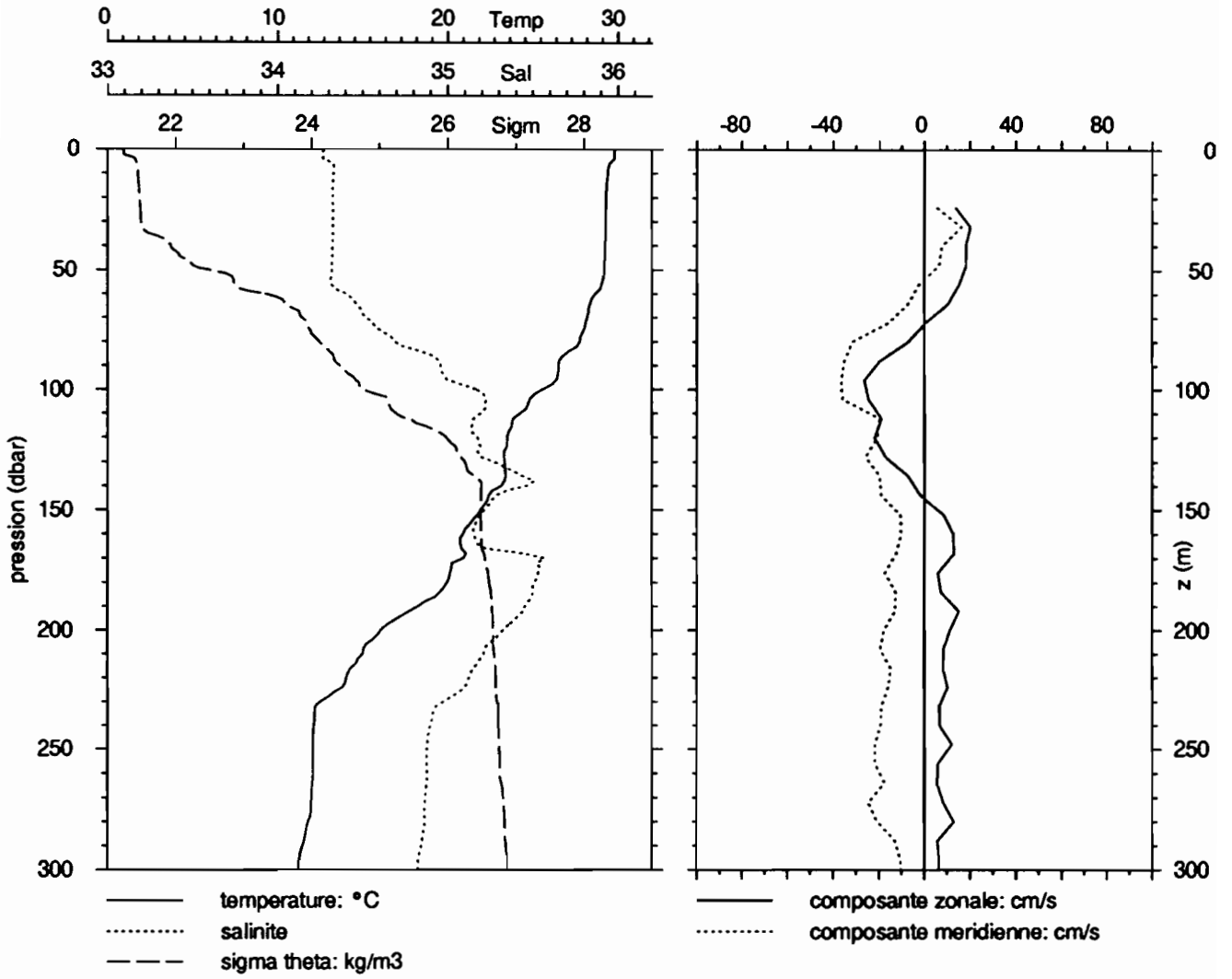
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.63	34.37	0.056	0.034	37.61
20	29.35	34.30	0.069	0.031	30.97
40	29.29	34.29	0.064	0.051	44.42
60	29.13	34.04	0.113	0.061	34.90
80	28.08	34.43	0.170	0.187	52.34
90	27.62	34.32	0.202	0.286	58.56
101	26.34	34.42	0.395	0.455	53.55
110	24.70	34.86	0.123	0.356	74.28
120	23.77	34.90	0.090	0.309	77.52
140	23.33	34.62	0.046	0.112	70.79
159	21.40	34.76	0.065	0.109	62.55
180	20.22	34.41	0.020	0.048	70.83
200	17.07	35.34			

# EQUALIS -station 147

1°45 S 156°10 E

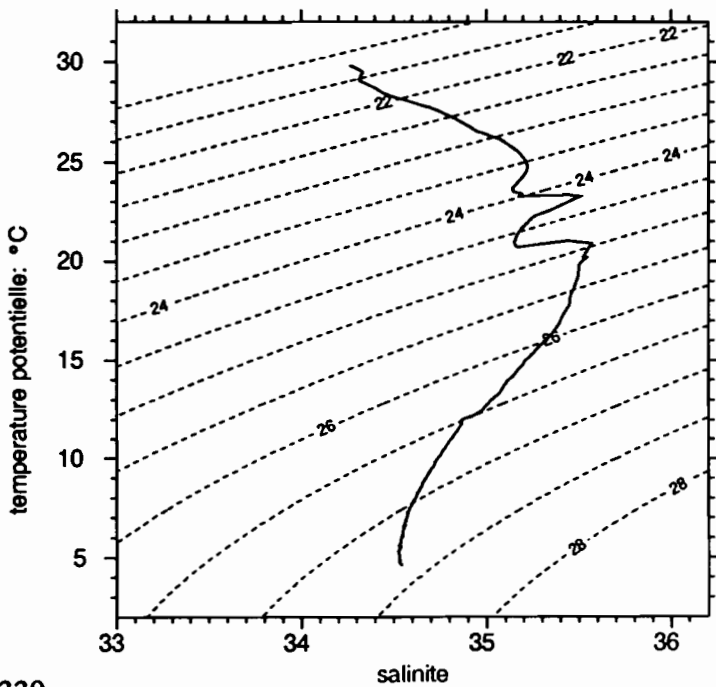
29/11/92, 7h 1 TU

29/11/92, 17h 1 locale



	P	T	S
debut	4.0	29.810	34.267
fin	998.0	4.660	34.545

	Z	U	V
debut	24.0	13.8	5.7
fin	368.0	11.1	-3.9



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.421	34.331		
20.0	29.319	34.324		
30.0	29.288	34.325	18.6	13.7
40.0	29.250	34.324	18.2	7.8
50.0	29.205	34.318	17.6	4.4
75.0	28.006	34.598	-2.3	-21.9
100.0	25.541	35.171	-25.5	-36.2
125.0	23.383	35.183	-19.0	-24.0
150.0	21.907	35.215	6.1	-12.6
200.0	16.102	35.324	11.3	-17.9
250.0	12.088	34.880	10.6	-21.8
300.0	11.211	34.823	6.5	-10.6
400.0	10.081	34.740		
500.0	8.877	34.658		
600.0	6.771	34.558		
700.0	6.265	34.548		
800.0	5.853	34.540		
900.0	5.167	34.528		

# EQUALIS - station147

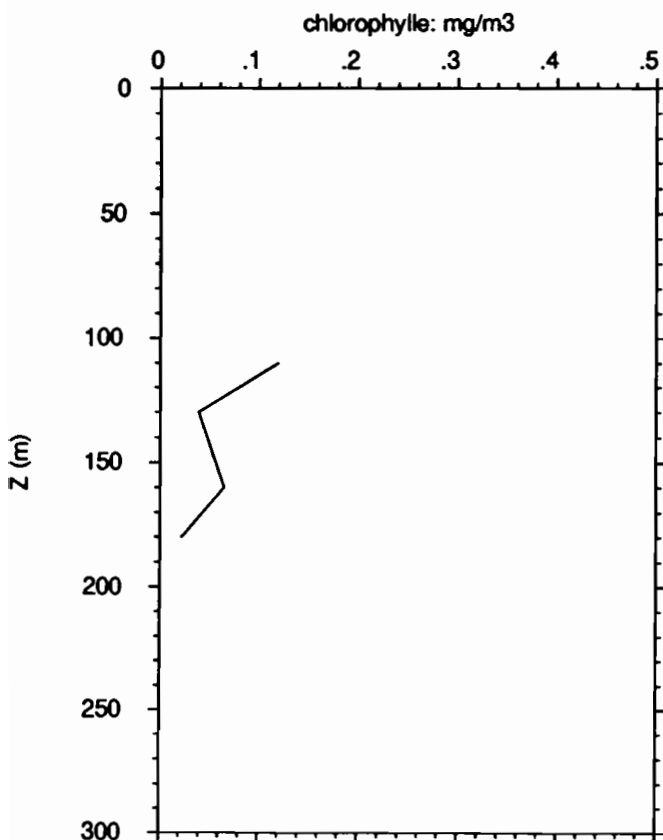
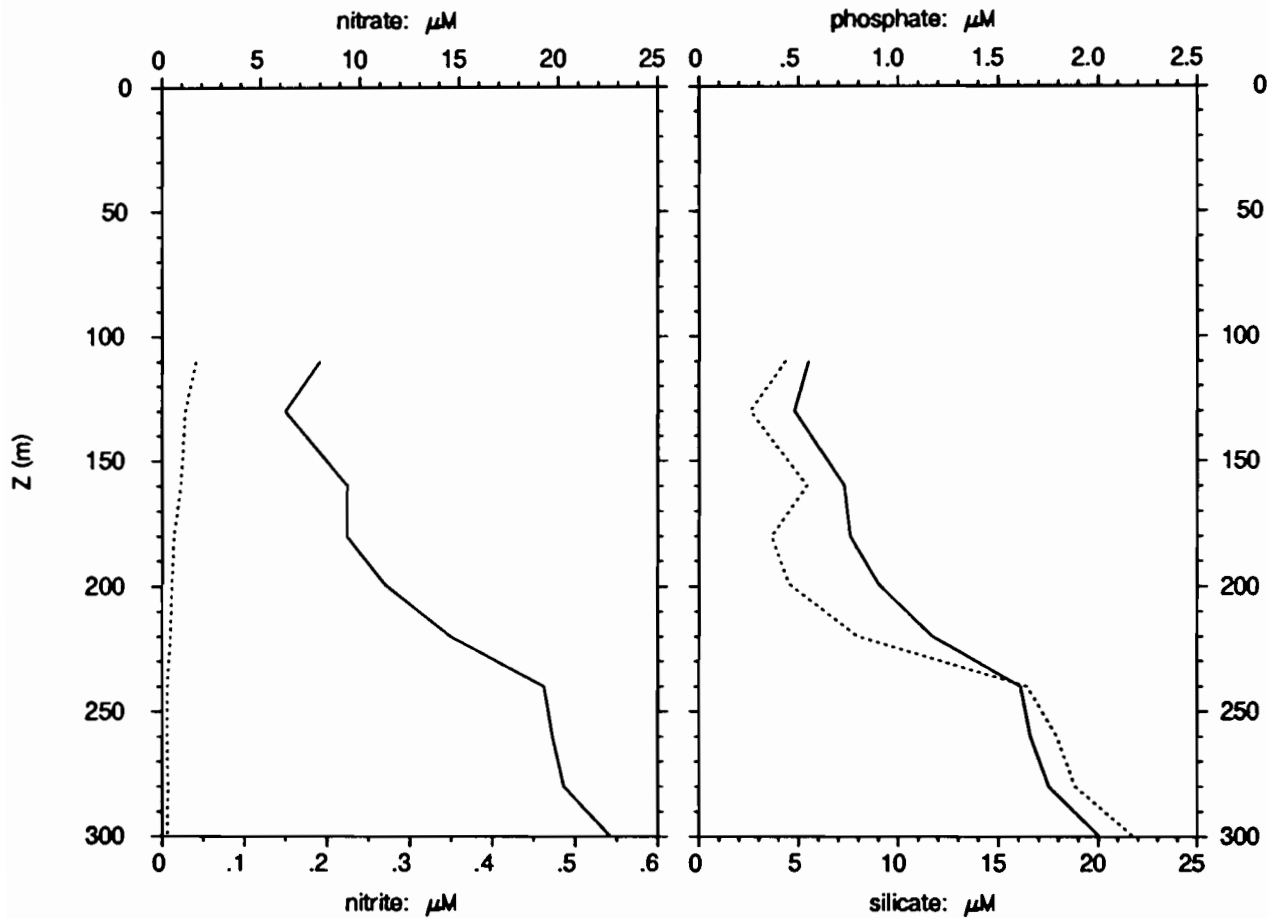
1°45 S 156°10 E

29/11/92, 7h 1 TU

29/11/92, 17h 1 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
110	7.98	0.041	0.55	4.3
130	6.26	0.028	0.48	2.6
160	9.36	0.023	0.73	5.4
180	9.34	0.014	0.76	3.6
199	11.20	0.012	0.90	4.5
220	14.55	0.010	1.17	7.9
240	19.28	0.006	1.61	16.4
260	19.69	0.006	1.66	17.9
280	20.26	0.007	1.75	18.8
301	22.72	0.006	2.02	21.9
1001	28.49	0.005	2.91	61.6
1001	28.49	0.005	2.92	61.7

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
110	23.58	35.10	0.120	0.229	65.58
130	23.37	35.40	0.039	0.097	71.36
160	21.11	34.81	0.065	0.137	67.71
180	20.24	34.88	0.022	0.040	64.69
199	18.02	33.74			
220	14.84	32.94			
240	12.20	34.80			
260	12.09	34.72			
280	11.73	34.62			
301	11.01	34.79			
1001	4.66	34.54			
1001	4.66	34.54			

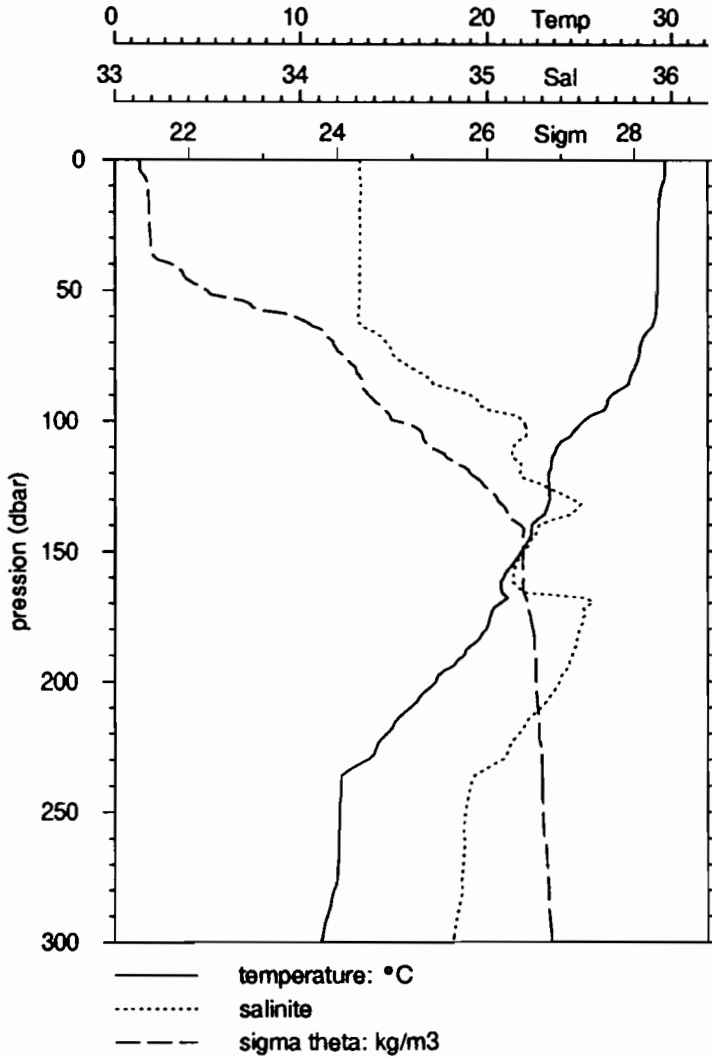


# EQUALIS -station 148

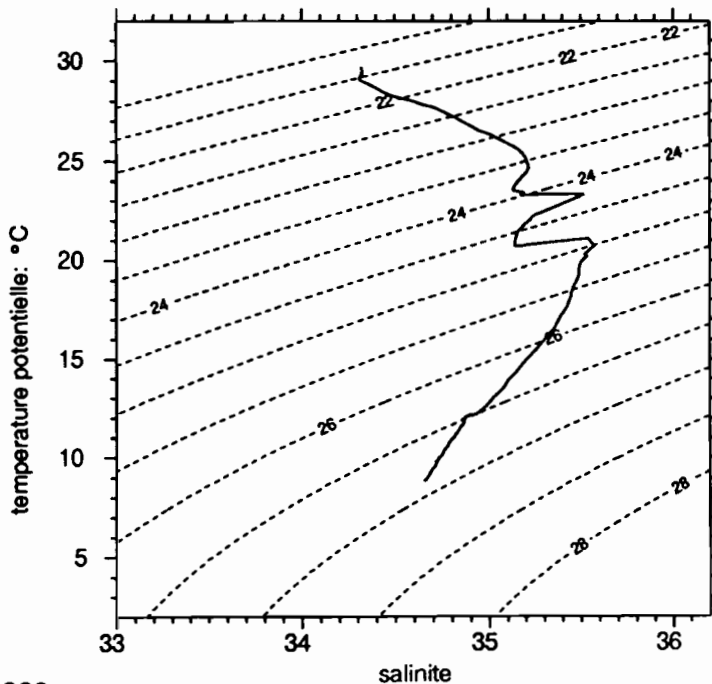
1°45 S 156°10 E

29/11/92, 8h 4 TU

29/11/92, 18h 4 locale



	P	T	S
debut	6.0	29.658	34.320
fin	500.0	8.891	34.655



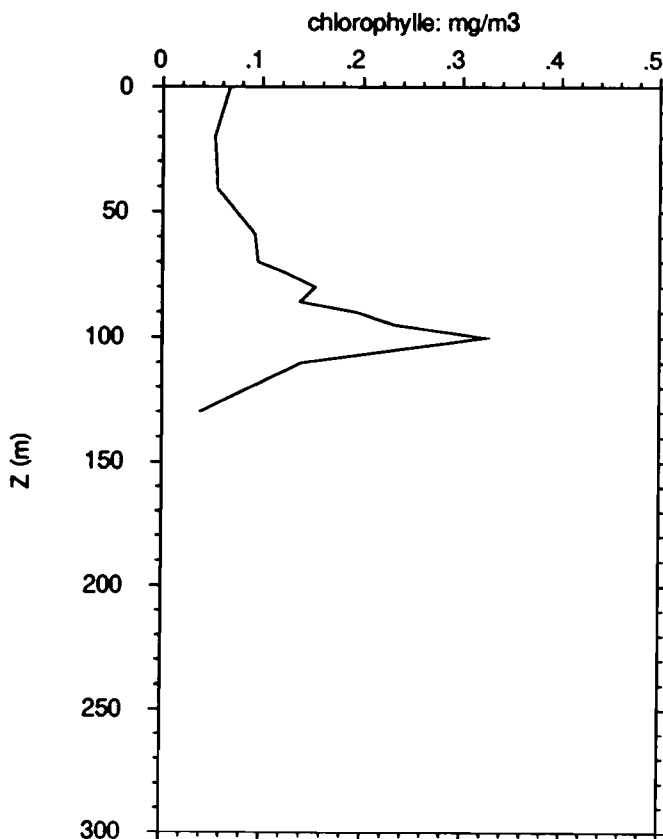
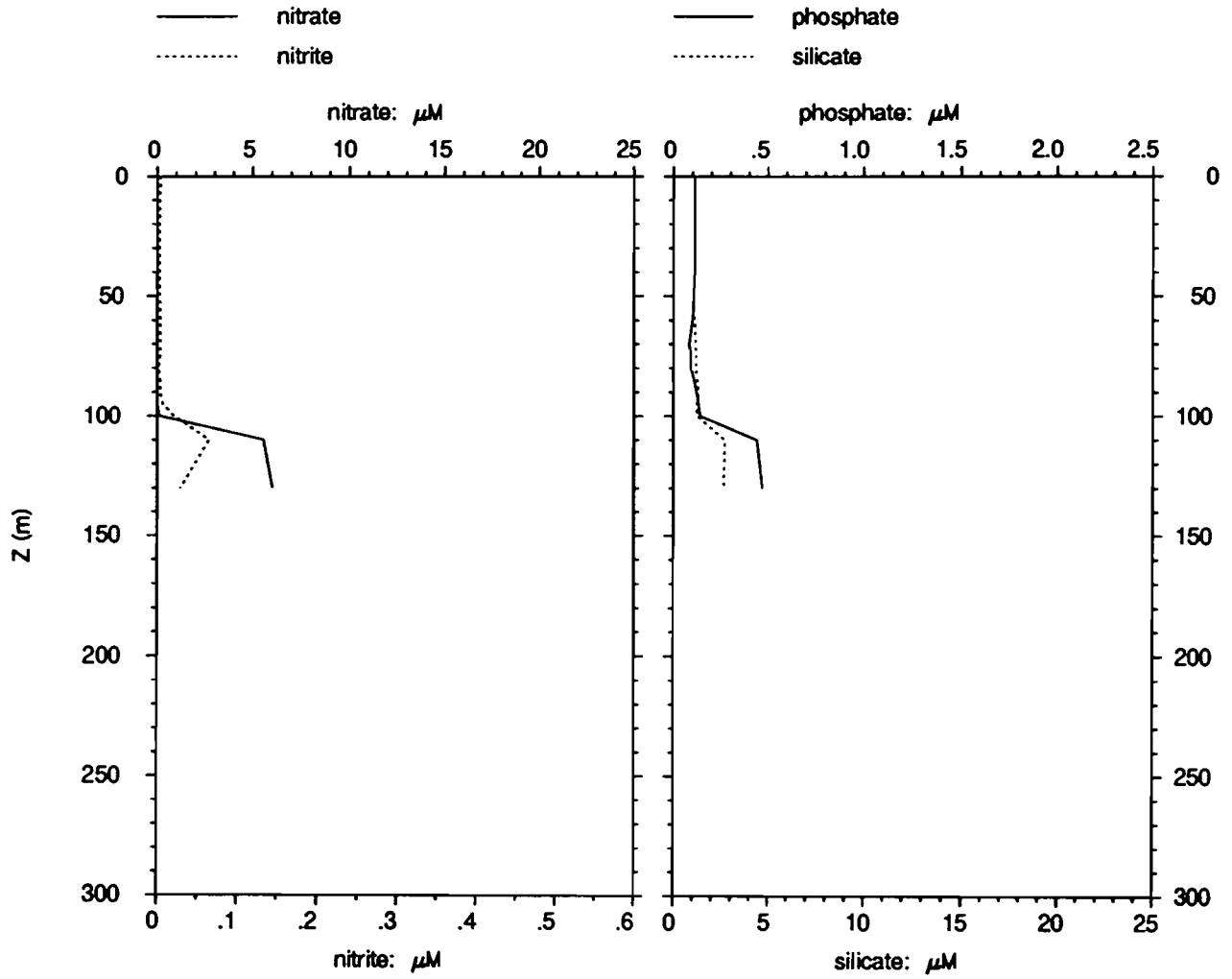
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.501	34.326		
20.0	29.321	34.320		
30.0	29.298	34.321		
40.0	29.276	34.320		
50.0	29.241	34.320		
75.0	28.245	34.499		
100.0	25.238	35.196		
125.0	23.361	35.310		
150.0	21.865	35.198		
200.0	17.258	35.392		
250.0	12.108	34.882		
300.0	11.114	34.815		
400.0	10.012	34.730		
500.0	8.891	34.655		

# EQUALIS - station148

1°45 S 156°10 E

29/11/92, 8h 4 TU

29/11/92, 18h 4 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.004	0.11	1.1
20	0.001	0.003	0.11	1.1
41	0.000	0.003	0.11	1.1
59	0.000	0.004	0.10	1.1
70	0.000	0.004	0.08	1.1
74	0.001	0.004	0.09	1.2
80	0.001	0.002	0.09	1.2
86	0.000	0.004	0.11	1.2
90	0.000	0.004	0.12	1.3
95	0.001	0.007	0.13	1.2
100	0.120	0.021	0.14	1.2
110	5.57	0.065	0.44	2.7
130	6.03	0.029	0.47	2.6

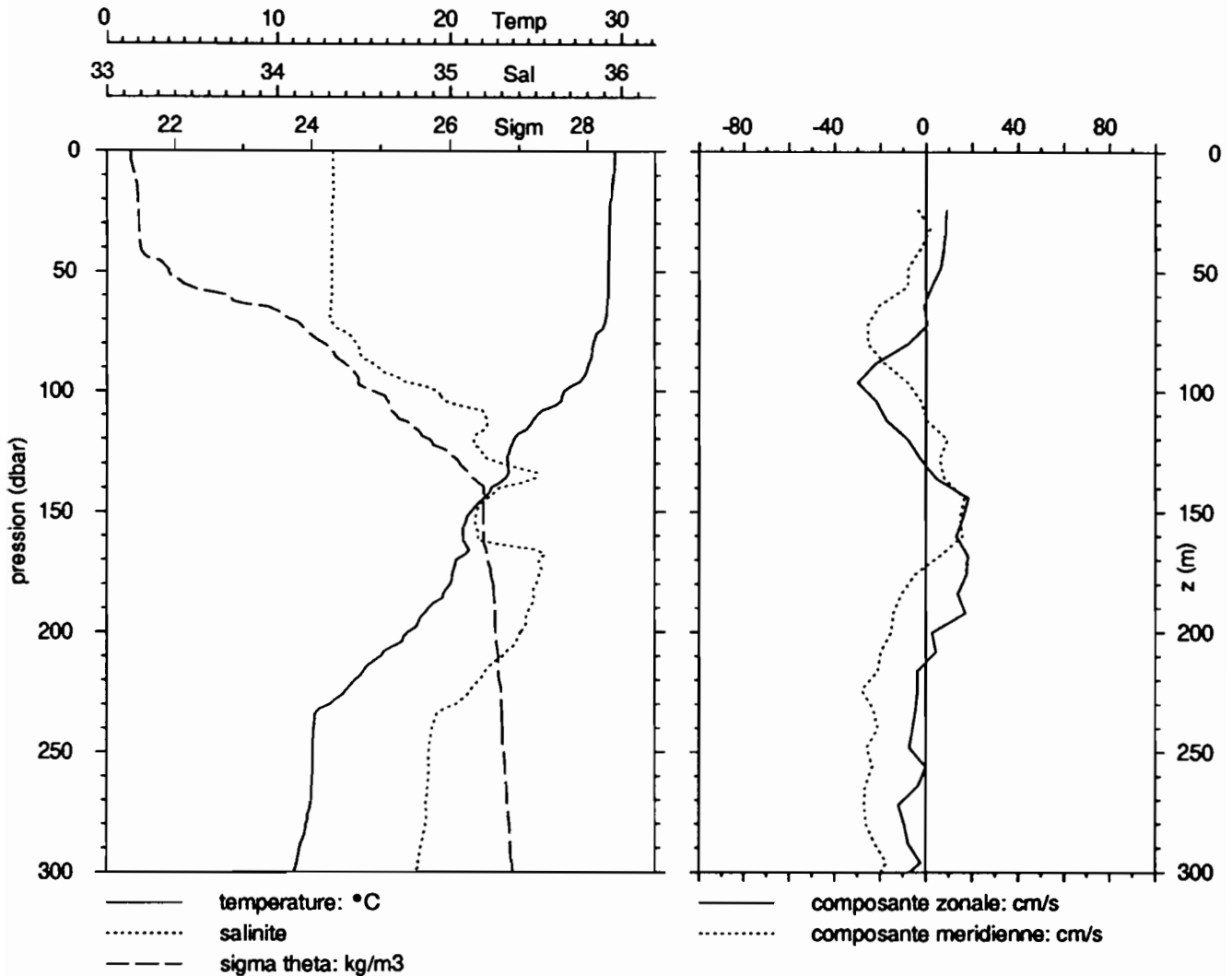
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.78	34.34	0.067	0.046	40.36
20	29.32	34.30	0.052	0.038	42.52
41	29.27	34.29	0.055	0.042	43.32
59	29.16	34.04	0.093	0.066	41.59
70	28.46	34.38	0.096	0.081	45.87
74	28.30	34.43	0.121	0.117	49.16
80	28.24	34.41	0.153	0.121	44.26
86	27.88	34.52	0.138	0.197	58.80
90	27.69	34.40	0.193	0.230	54.42
95	26.70	34.81	0.232	0.343	59.67
100	26.46	33.84	0.324	0.434	57.29
110	24.25	34.86	0.140	0.299	68.16
130	23.35	35.43	0.038	0.103	73.27

# EQUALIS -station 149

1°45 S 156°10 E

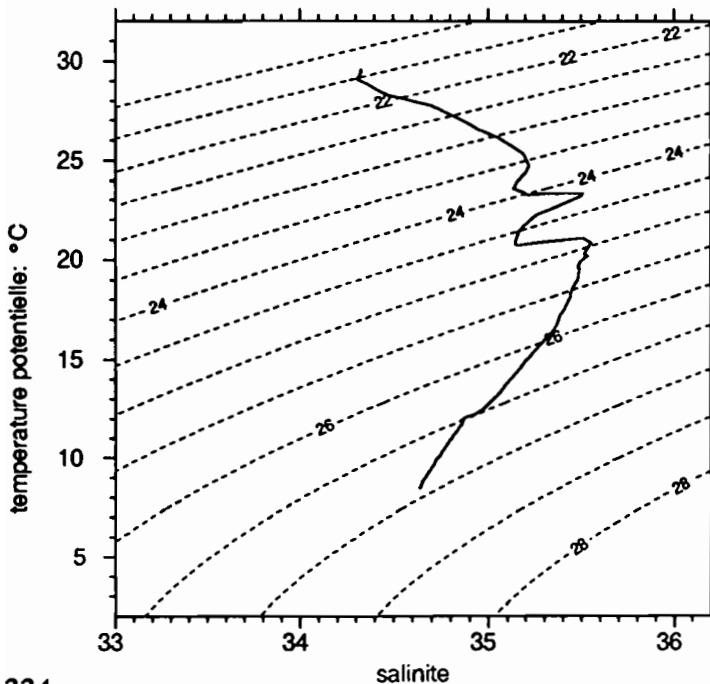
29/11/92, 10h 1 TU

29/11/92, 20h 1 locale



	P	T	S
debut	6.0	29.614	34.325
fin	502.0	8.511	34.638

	Z	U	V
debut	24.0	9.1	-3.4
fin	392.0	-5.0	-27.3



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.556	34.325		
20.0	29.391	34.324		
30.0	29.314	34.321	8.9	0.7
40.0	29.284	34.320	7.9	-2.0
50.0	29.263	34.320	5.6	-7.7
75.0	28.738	34.385	-2.4	-25.3
100.0	26.671	34.931	-25.7	-4.9
125.0	23.462	35.181	-4.3	7.4
150.0	21.221	35.156	16.8	15.4
200.0	17.596	35.412	2.8	-15.1
250.0	12.101	34.877	2.8	-25.3
300.0	11.004	34.806	-7.2	-20.0
400.0	9.886	34.722		
500.0	8.560	34.643		

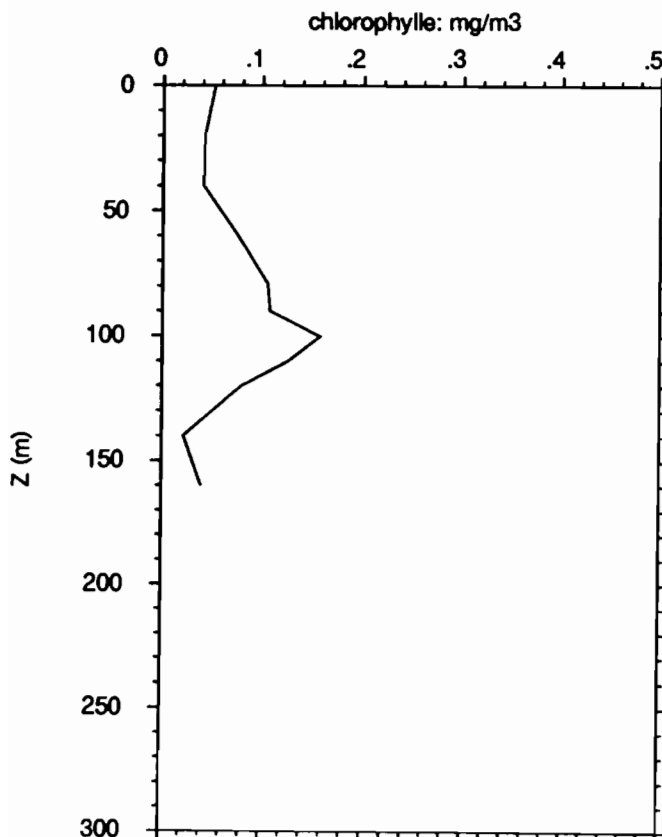
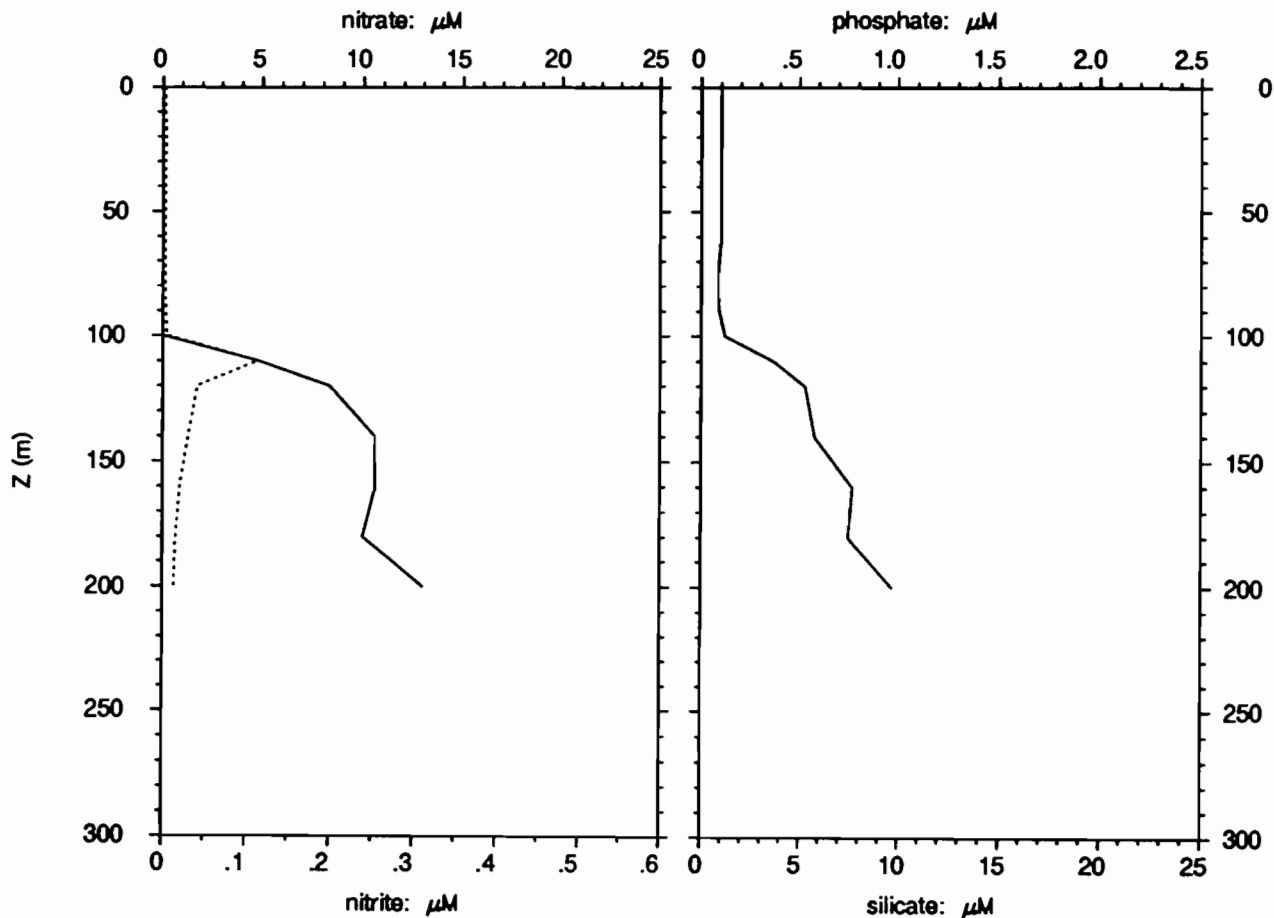
# EQUALIS - station149

1°45 S 156°10 E

29/11/92, 10h 1 TU

29/11/92, 20h 1 locale

— nitrate                      — phosphate  
 ..... nitrite                      ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.002	0.003	0.10	
20	0.000	0.004	0.10	
40	0.000	0.003	0.10	
60	0.000	0.003	0.10	
79	0.000	0.003	0.08	
90	0.000	0.004	0.09	
100	0.000	0.005	0.12	
110	4.77	0.115	0.37	
120	8.33	0.042	0.53	
140	10.57	0.031	0.58	
160	10.59	0.021	0.77	
180	9.97	0.016	0.75	
200	12.99	0.014	0.97	

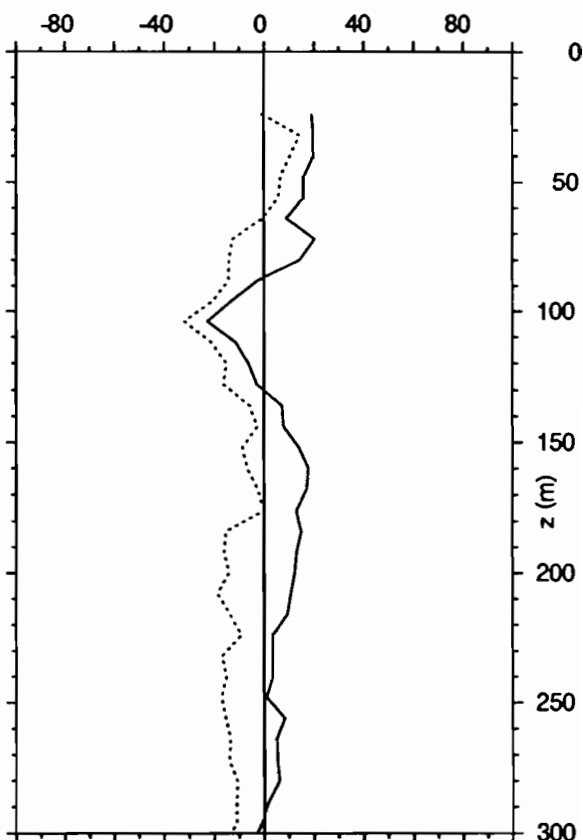
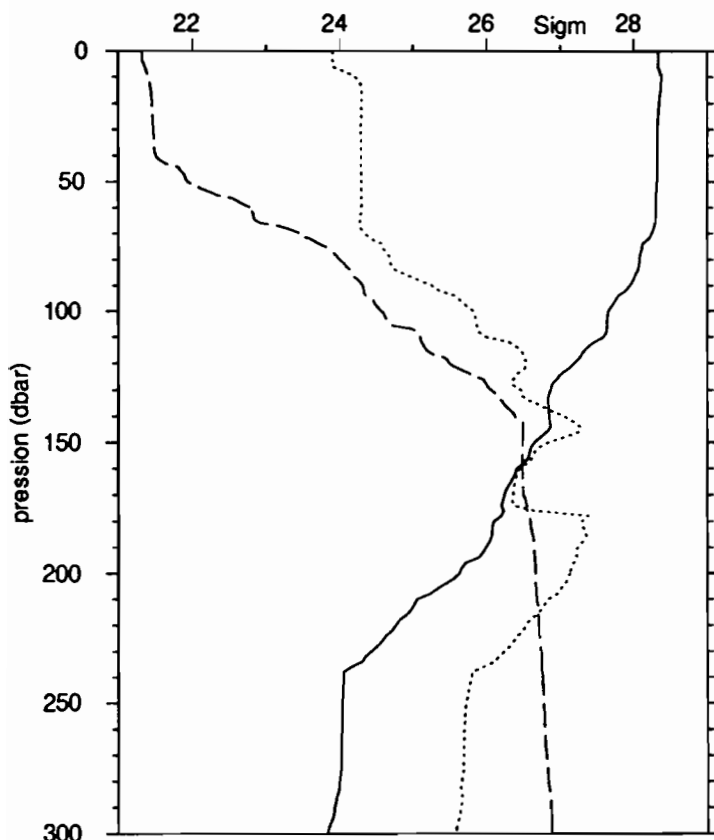
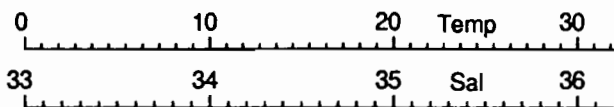
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.79	34.35	0.052	0.071	57.64
20	29.37	34.30	0.042	0.049	54.02
40	29.29	34.32	0.041	0.057	57.96
60	29.24	34.31	0.076	0.067	46.72
79	28.48	34.35	0.106	0.073	40.83
90	28.16	34.28	0.108	0.171	61.41
100	26.84	34.78	0.158	0.326	67.27
110	25.13	34.82	0.126	0.422	76.97
120	23.71	35.11	0.080	0.205	72.00
140	22.30	34.80	0.022	0.093	80.53
160	20.81	35.15	0.040	0.098	70.98
180	19.42	34.88			
200	16.74	35.32			

# EQUALIS -station 150

29/11/92, 12h59 TU

1°45 S 156°10 E

29/11/92, 22h59 locale

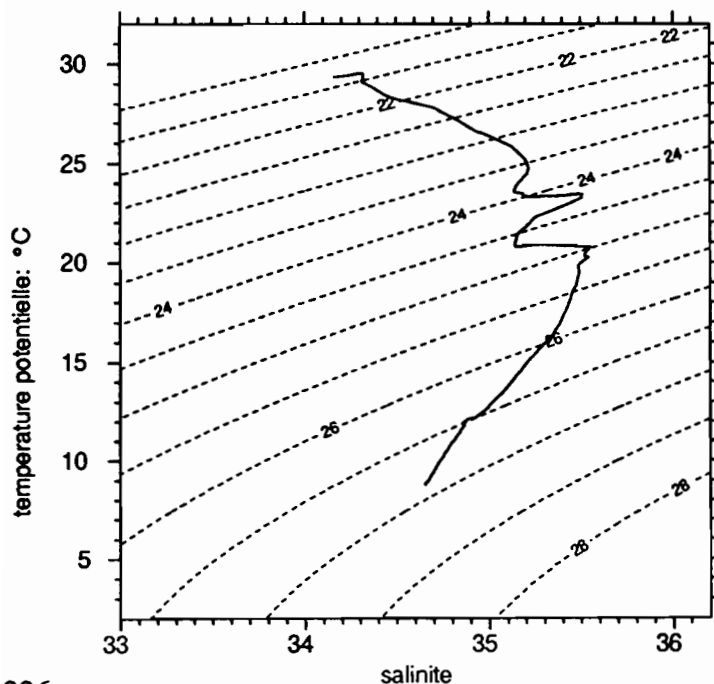


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.336	34.162
fin	502.0	8.818	34.654

	Z	U	V
debut	24.0	19.2	-0.7
fin	360.0	-0.2	0.0



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.503	34.285		
20.0	29.390	34.321		
30.0	29.299	34.316	19.7	10.6
40.0	29.271	34.317	19.8	10.5
50.0	29.250	34.321	16.0	6.5
75.0	28.462	34.438	18.1	-13.2
100.0	26.625	34.929	-18.0	-26.3
125.0	23.928	35.153	-4.0	-15.8
150.0	22.592	35.336	12.6	-7.1
200.0	18.532	35.453	12.4	-14.1
250.0	12.139	34.888	2.9	-16.8
300.0	11.334	34.830	-2.8	-13.4
400.0	9.981	34.729		
500.0	8.842	34.654		

# EQUALIS - station150

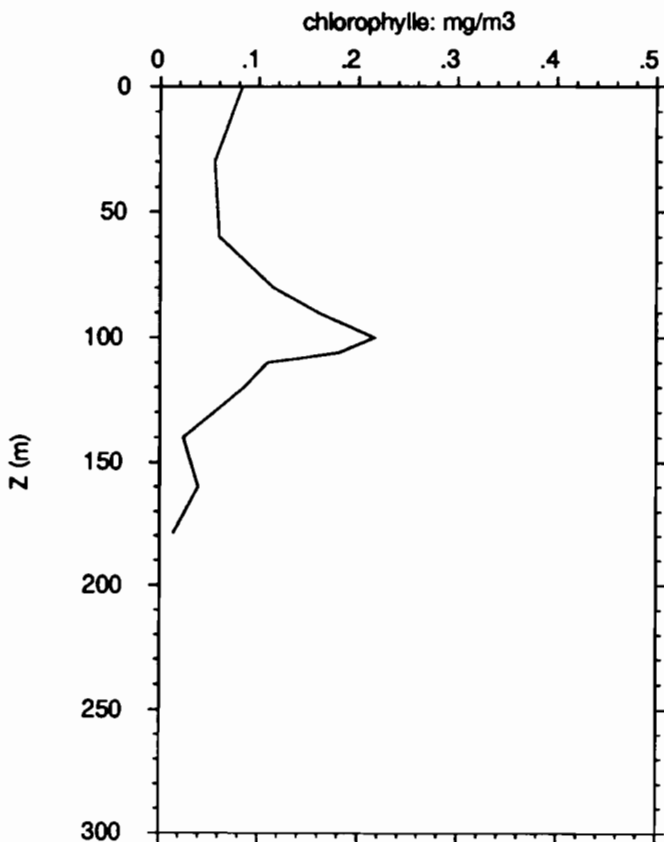
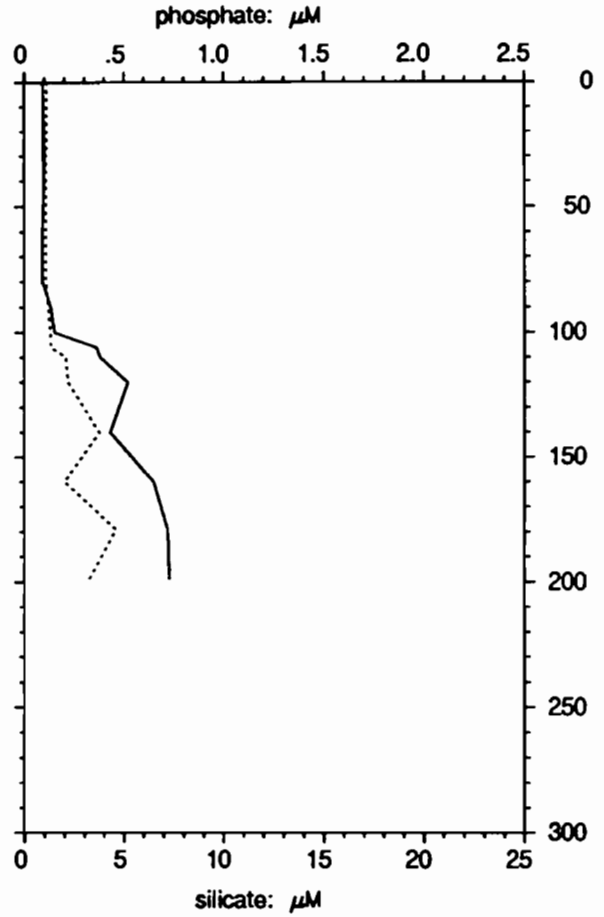
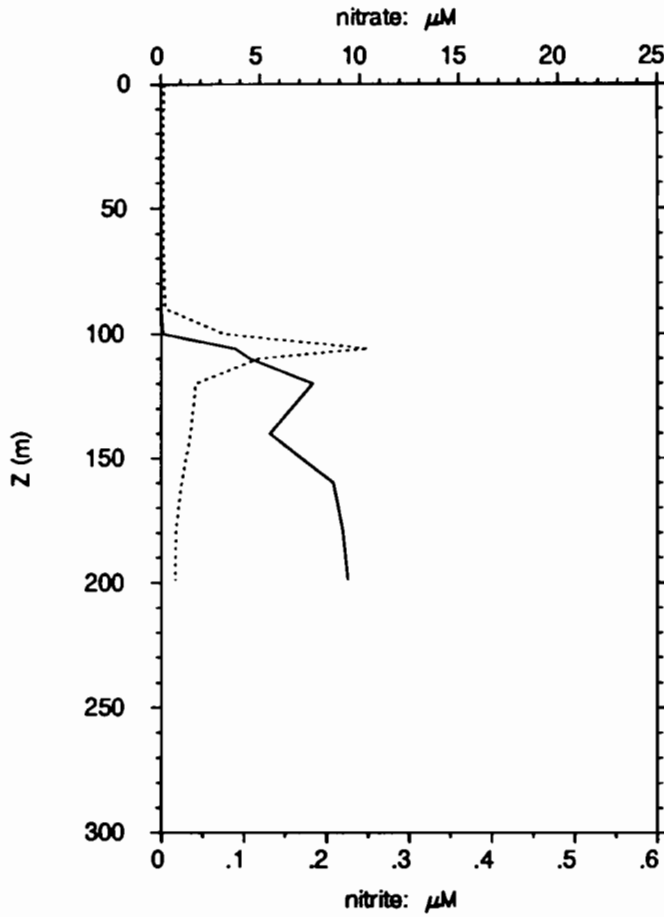
1°45 S 156°10 E

29/11/92, 12h59 TU

29/11/92, 22h59 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.004	0.09	1.1
30	0.000	0.003	0.10	1.1
60	0.000	0.003	0.09	1.1
80	0.000	0.004	0.09	1.1
90	0.000	0.005	0.13	1.2
100	0.104	0.076	0.15	1.3
106	3.74	0.250	0.36	1.3
110	4.49	0.118	0.38	2.1
120	7.65	0.042	0.52	2.2
140	5.51	0.036	0.43	3.8
160	8.67	0.025	0.65	2.0
179	9.14	0.018	0.72	4.6
199	9.40	0.017	0.73	3.2

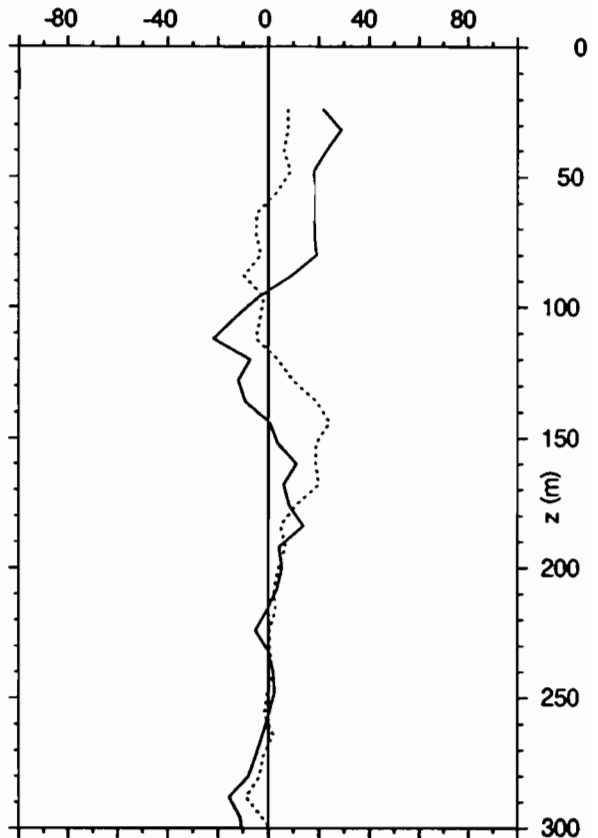
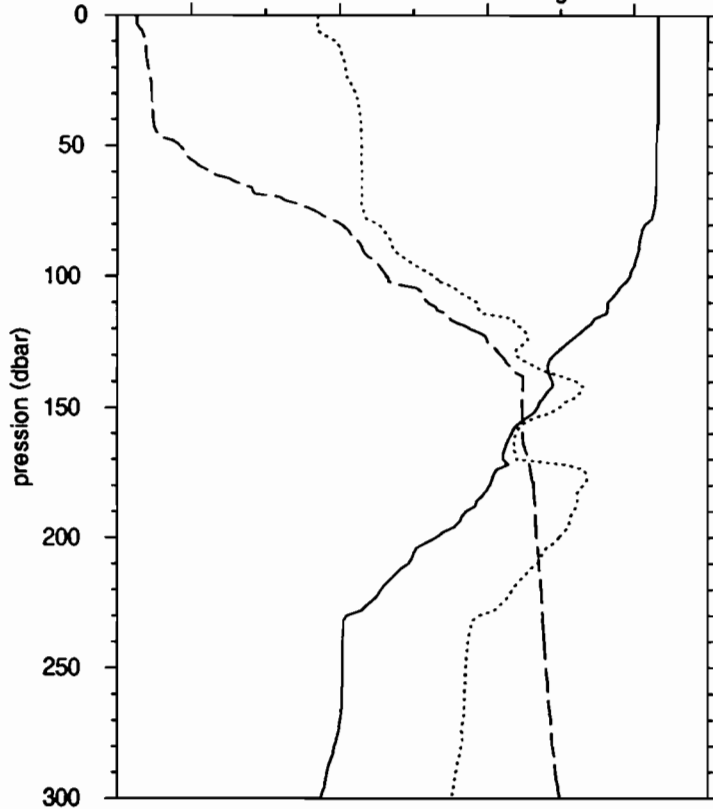
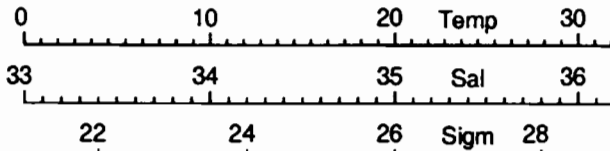
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.46	34.13	0.083	0.077	48.06
30	29.28	34.31	0.055	0.035	38.83
60	29.21	34.31	0.060	0.070	53.94
80	28.16	34.21	0.115	0.123	51.67
90	27.05	34.70	0.160	0.295	64.86
100	26.55	34.94	0.216	0.563	72.25
106	25.68	34.96	0.181	0.395	68.64
110	25.14	34.79	0.109	0.419	79.37
120	23.78	34.93	0.085	0.265	75.83
140	23.45	35.16	0.024	0.101	80.87
160	22.02	34.84	0.039	0.130	76.72
179	20.55	35.42	0.014	0.063	81.53
199	19.63	35.44			

# EQUALIS -station 151

29/11/92, 16h 1 TU

1°45 S 156°10 E

30/11/92, 2h 1 locale

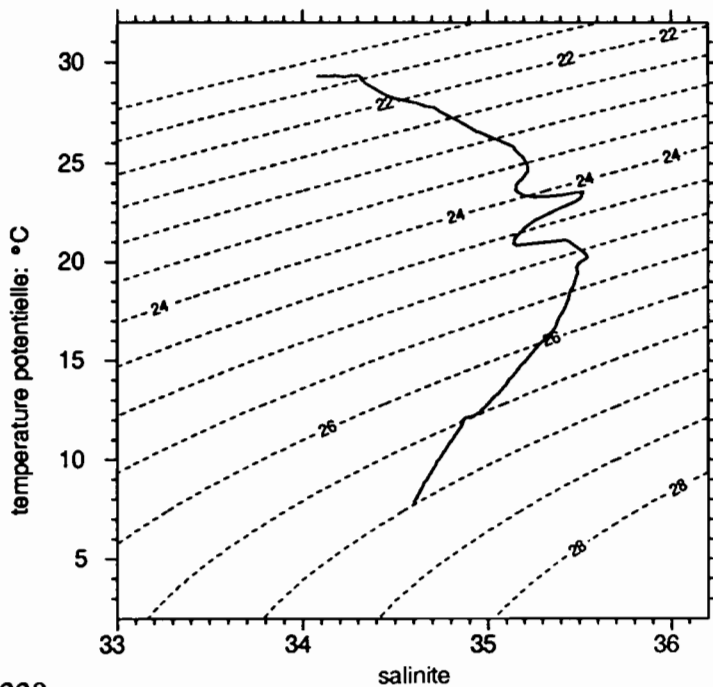


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.318	34.080
fin	500.0	7.895	34.602

	Z	U	V
debut	24.0	21.9	7.9
fin	384.0	-8.1	3.8



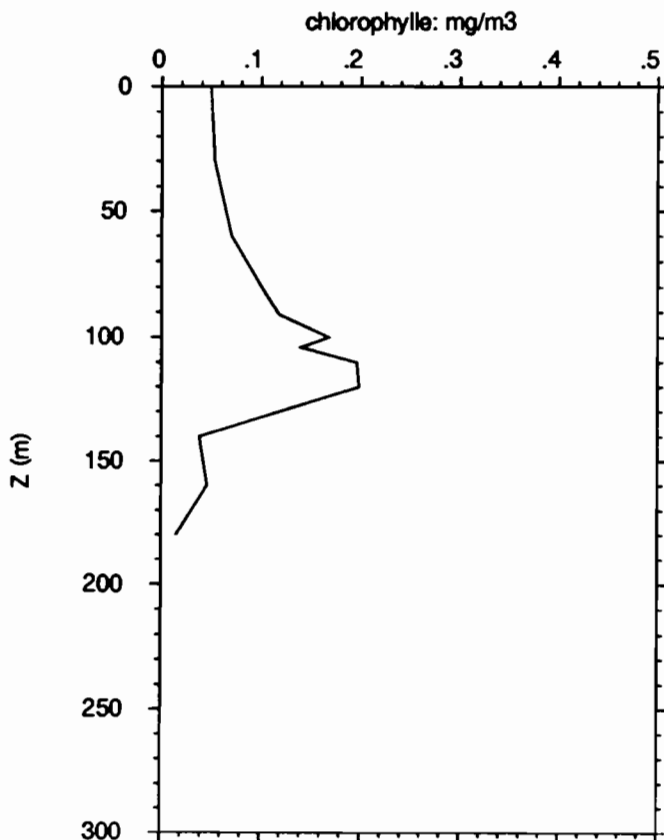
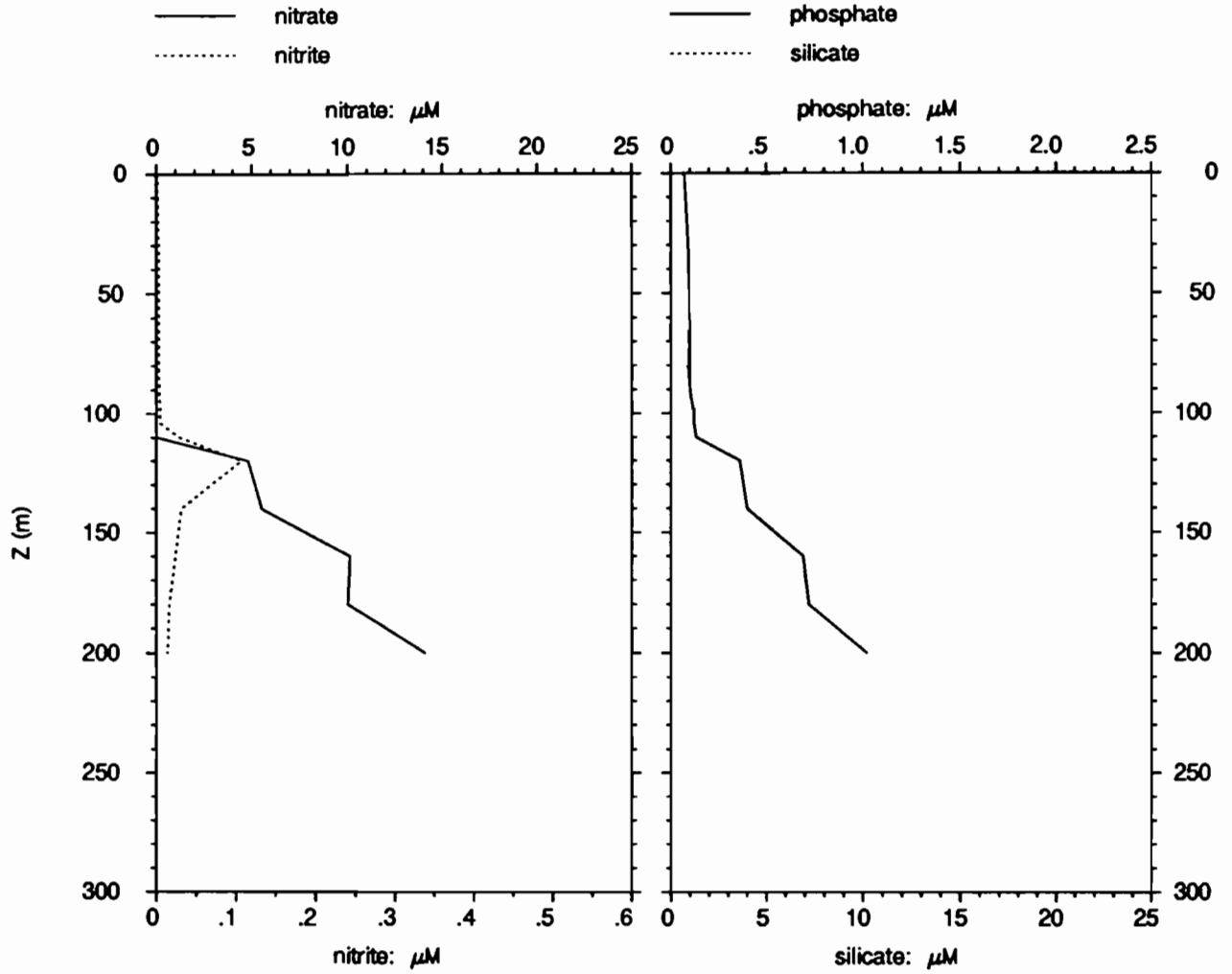
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.335	34.181		
20.0	29.302	34.230		
30.0	29.371	34.292	27.1	7.9
40.0	29.316	34.313	23.2	6.3
50.0	29.260	34.318	18.4	7.6
75.0	29.089	34.329	18.7	-4.0
100.0	27.788	34.712	-8.4	-2.4
125.0	24.459	35.207	-10.1	7.7
150.0	22.742	35.392	3.1	20.5
200.0	17.228	35.391	5.5	4.1
250.0	12.141	34.882	2.0	-0.6
300.0	10.983	34.803	-10.6	1.1
400.0	9.787	34.718		
500.0	7.895	34.602		

# EQUALIS - station151

1°45 S 156°10 E

29/11/92, 16h 1 TU

30/11/92, 2h 1 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.002	0.07	
30	0.001	0.003	0.09	
60	0.002	0.003	0.10	
81	0.002	0.003	0.09	
91	0.001	0.004	0.10	
100	0.000	0.005	0.12	
104	0.000	0.005	0.12	
110	0.031	0.029	0.13	
120	4.81	0.107	0.36	
140	5.53	0.031	0.40	
160	10.12	0.024	0.69	
180	10.02	0.016	0.72	
200	14.08	0.014	1.02	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.44	34.11	0.049	0.045	47.73
30	29.33	34.26	0.053	0.050	48.15
60	29.25	34.31	0.070	0.076	52.18
81	28.71	34.14	0.102	0.089	46.54
91	28.14	34.43	0.118	0.140	54.15
100	27.46	34.58	0.168	0.234	58.22
104	27.09	34.60	0.140	0.290	67.46
110	26.58	34.34	0.196	0.374	65.63
120	24.92	34.70	0.198	0.331	62.60
140	23.32	35.07	0.038	0.081	68.10
160	19.76	34.18	0.046	0.154	76.90
180	19.67	33.93	0.015	0.062	79.98
200	16.01	35.26			

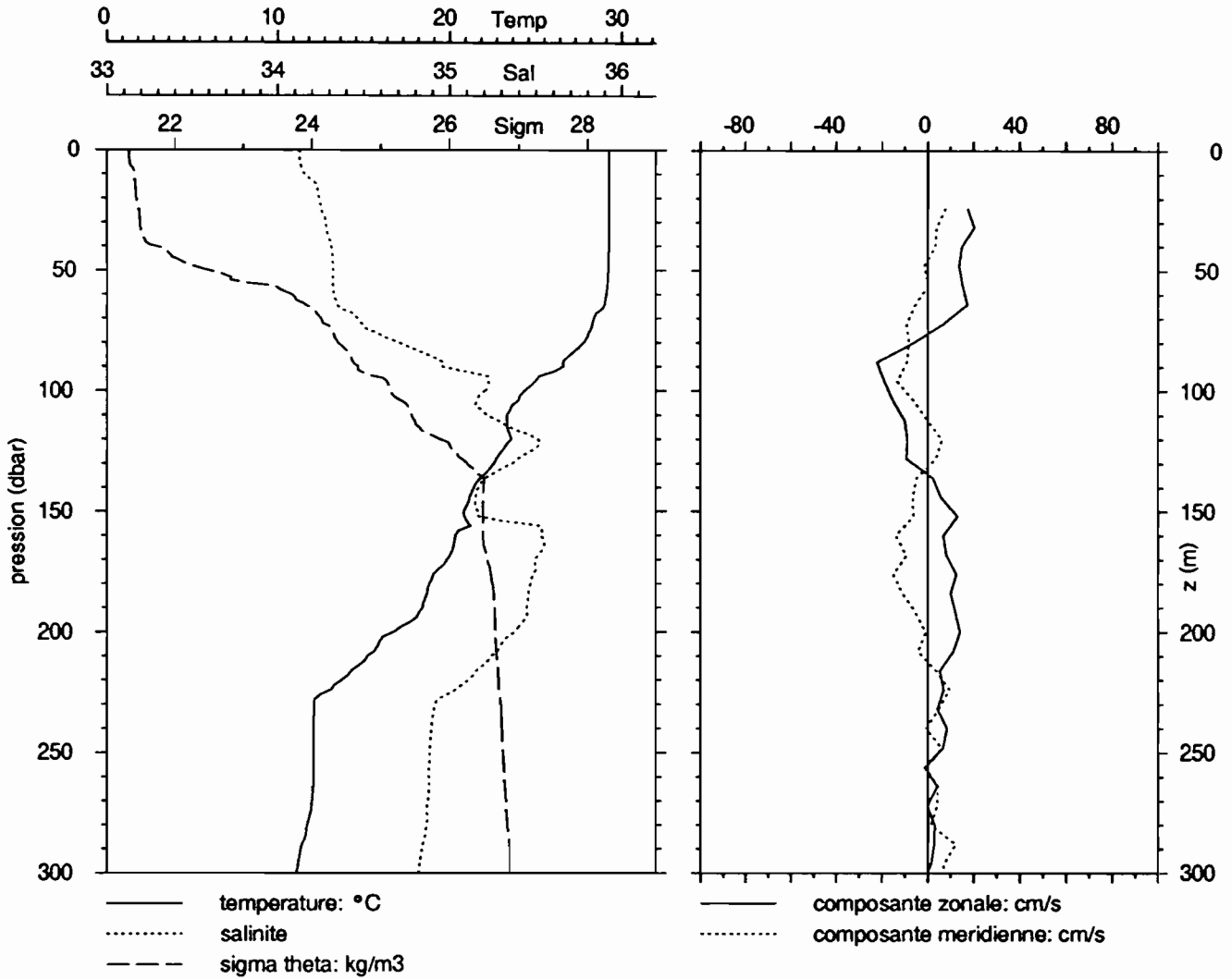


# EQUALIS -station 152

1°45 S 156°10 E

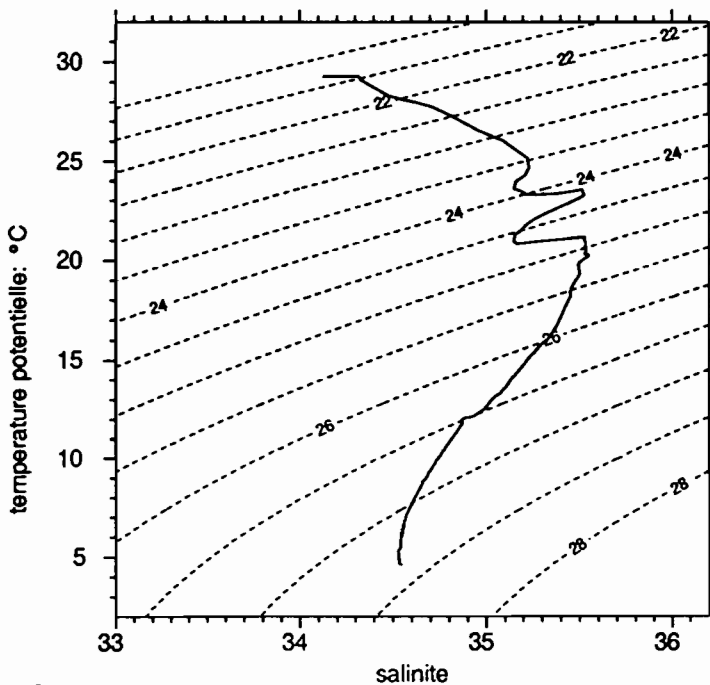
29/11/92, 19h 5 TU

30/11/92, 5h 5 locale



	P	T	S
debut	4.0	29.274	34.128
fin	998.0	4.658	34.545

	Z	U	V
debut	24.0	17.5	7.9
fin	400.0	2.4	2.5



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.288	34.157		
20.0	29.275	34.242		
30.0	29.311	34.280	19.7	5.0
40.0	29.282	34.313	15.0	3.4
50.0	29.236	34.324	14.3	-1.0
75.0	28.168	34.539	2.0	-8.7
100.0	24.329	35.208	-16.9	-9.6
125.0	23.036	35.469	-9.0	4.7
150.0	20.847	35.166	11.3	-6.3
200.0	16.765	35.378	14.2	-0.9
250.0	12.111	34.885	4.8	4.4
300.0	11.110	34.819	-0.2	6.8
400.0	9.954	34.731		
500.0	8.870	34.657		
600.0	6.903	34.562		
700.0	6.267	34.549		
800.0	5.970	34.540		
900.0	5.303	34.528		

# EQUALIS - station152

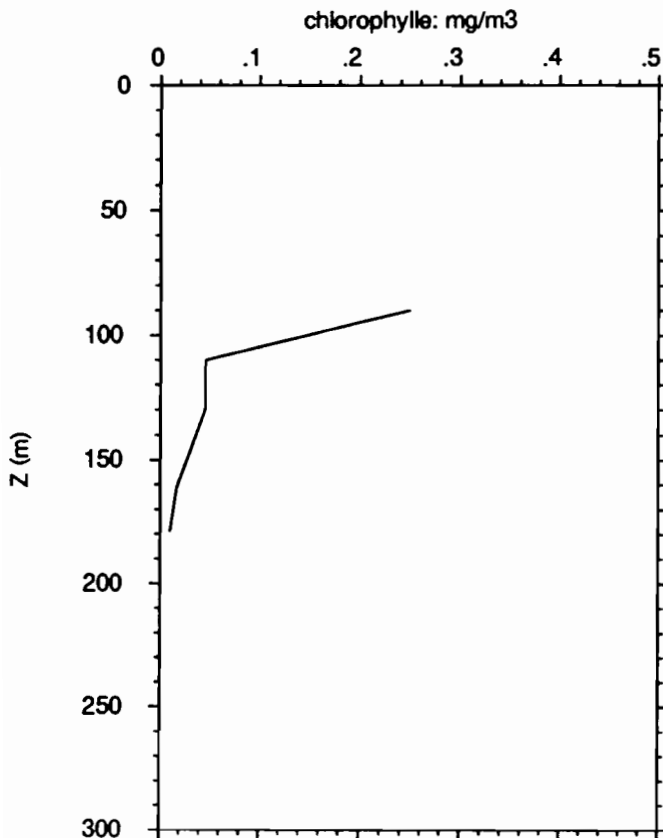
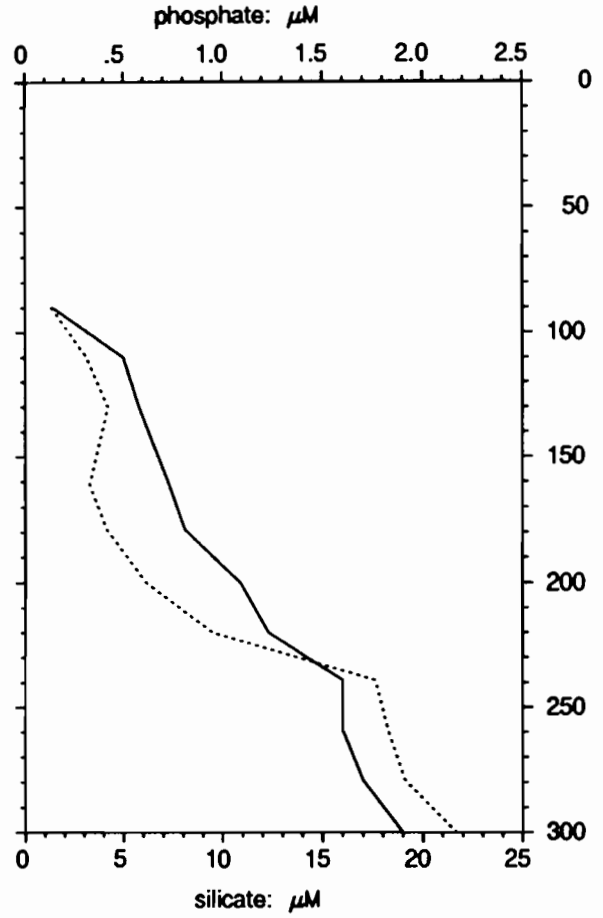
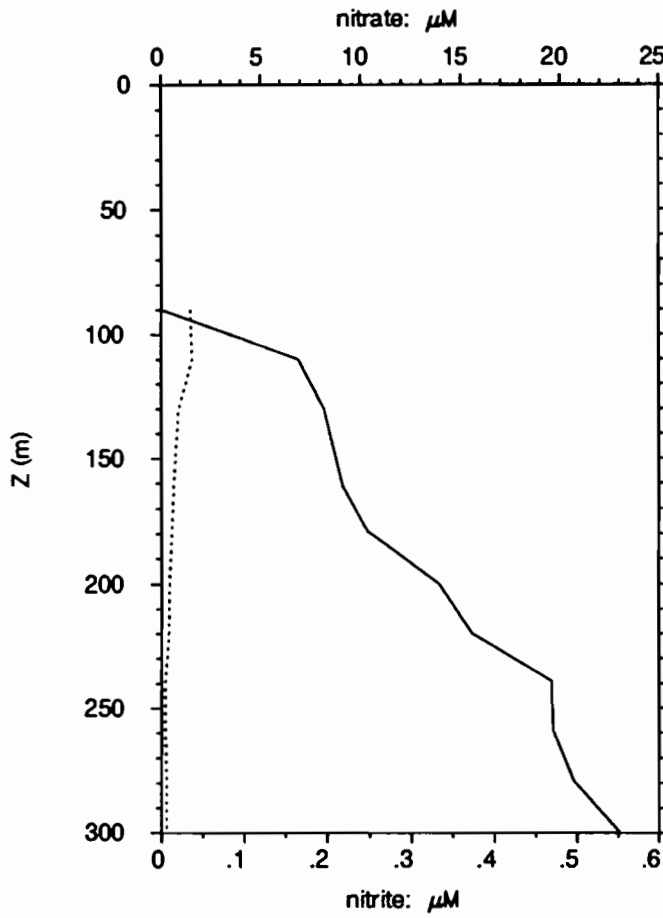
1°45 S 156°10 E

29/11/92, 19h 5 TU

30/11/92, 5h 5 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	0.003	0.035	0.14	1.3
110	6.89	0.037	0.50	3.1
130	8.18	0.021	0.58	4.2
161	9.11	0.015	0.73	3.3
179	10.32	0.013	0.81	4.2
200	13.89	0.010	1.09	6.2
220	15.54	0.009	1.23	9.5
239	19.54	0.005	1.60	17.6
259	19.63	0.005	1.60	18.2
279	20.67	0.006	1.70	19.1
300	23.03	0.006	1.90	21.7
1001	29.87	0.005	2.84	63.5

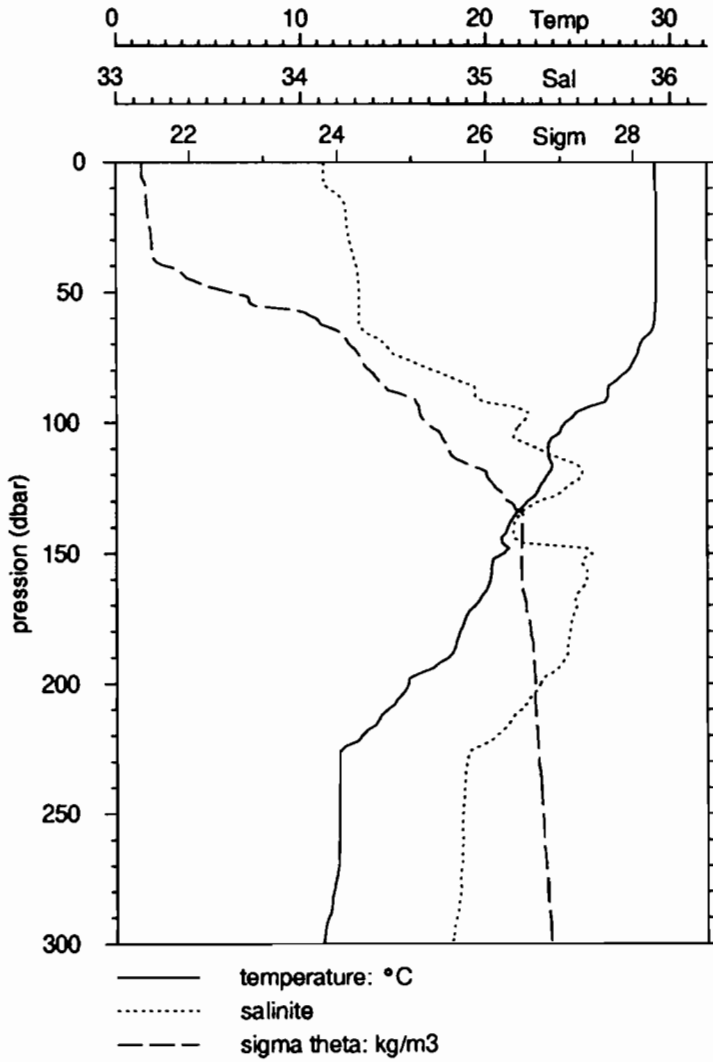
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
90	26.59	34.79	0.249	0.489	66.25
110	23.36	34.93	0.046	0.139	74.95
130	22.22	34.66	0.045	0.090	66.56
161	20.28	34.93	0.017	0.054	76.14
179	18.75	34.69	0.010	0.039	79.59
200	15.87	34.06			
220	13.84	34.37			
239	12.13	34.83			
259	12.10	34.73			
279	11.81	34.40			
300	11.14	34.81			
1001	4.66	34.54			

# EQUALIS -station 153

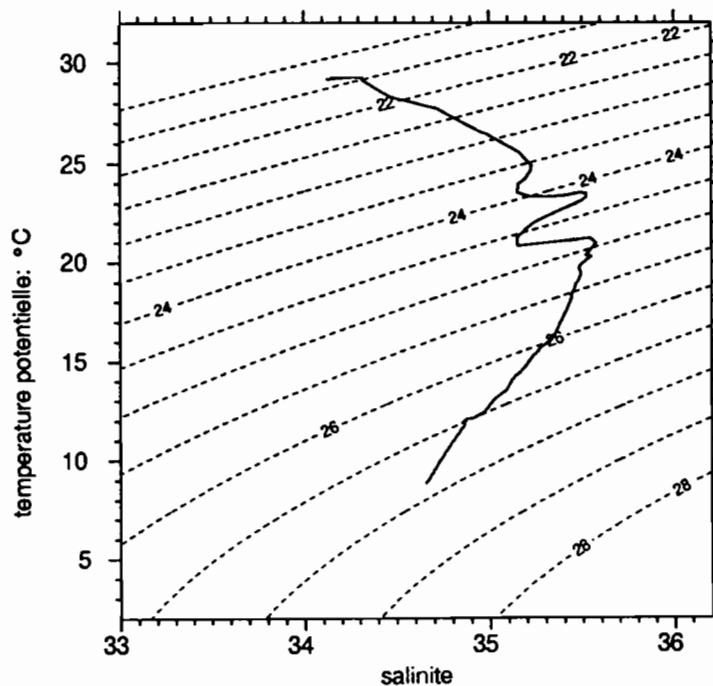
29/11/92, 20h10 TU

1°45 S 156°10 E

30/11/92, 6h10 locale



	P	T	S
debut	6.0	29.181	34.126
fin	498.0	8.896	34.655



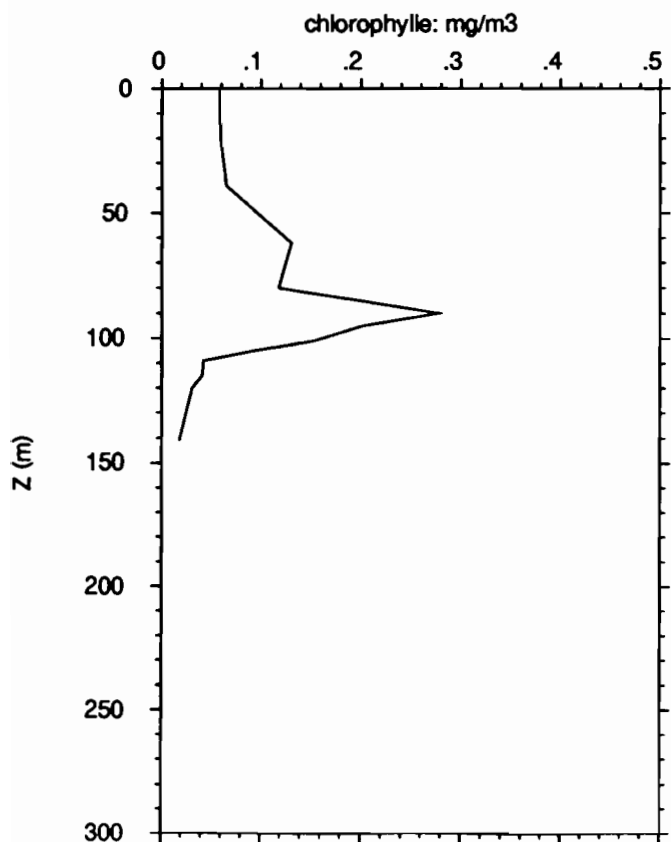
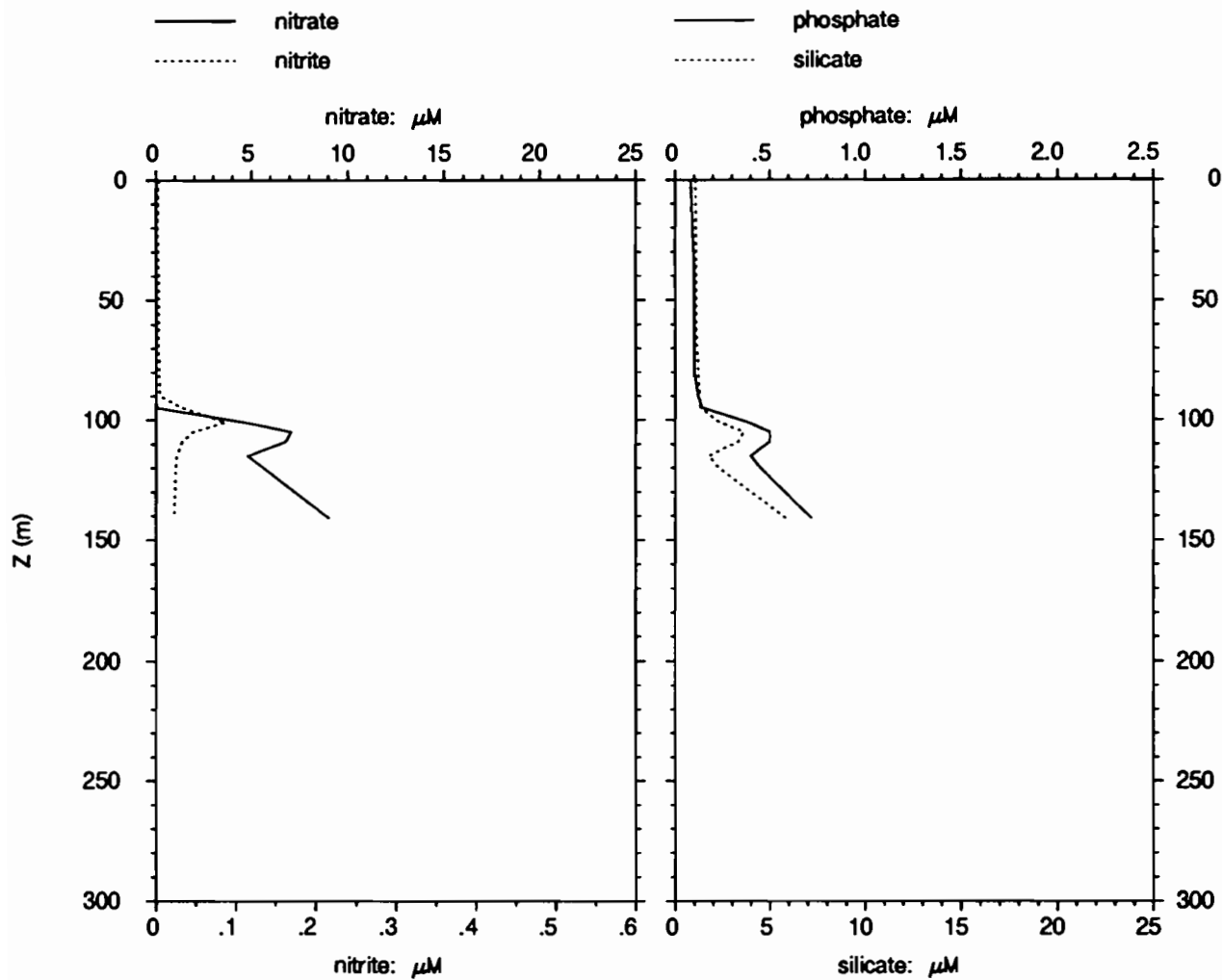
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.208	34.148		
20.0	29.270	34.246		
30.0	29.290	34.266		
40.0	29.284	34.304		
50.0	29.240	34.320		
75.0	28.152	34.543		
100.0	24.281	35.195		
125.0	22.882	35.433		
150.0	20.979	35.575		
200.0	15.856	35.293		
250.0	12.101	34.875		
300.0	11.220	34.821		
400.0	10.051	34.735		

# EQUALIS - station153

1°45 S 156°10 E

29/11/92, 20h10 TU

30/11/92, 6h10 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.003	0.08	1.1
20	0.001	0.002	0.09	1.1
39	0.000	0.003	0.10	1.1
62	0.002	0.003	0.10	1.1
80	0.000	0.004	0.10	1.2
90	0.001	0.005	0.12	1.3
95	0.037	0.033	0.14	1.3
101	4.59	0.087	0.38	2.3
105	7.07	0.046	0.50	3.6
109	6.80	0.033	0.50	3.3
115	4.81	0.026	0.40	1.8
120	5.63	0.025	0.45	2.3
141	9.03	0.023	0.72	5.8

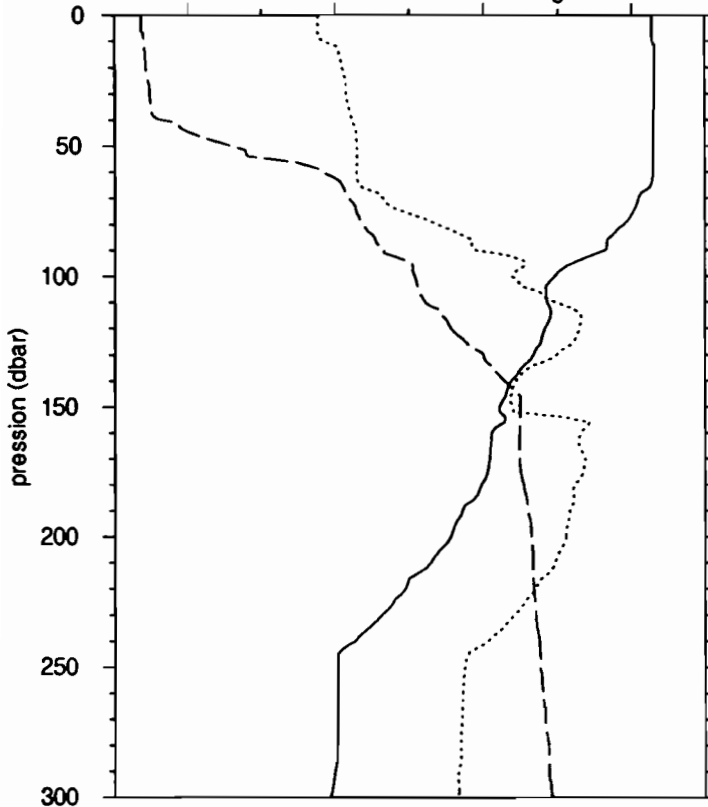
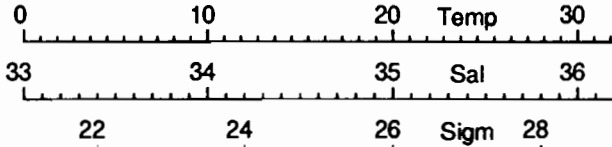
Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
0	29.29	34.16	0.058	0.072	55.20
20	29.27	34.25	0.059	0.050	45.98
39	29.29	34.27	0.065	0.061	48.33
62	29.20	34.18	0.131	0.062	31.88
80	28.12	34.29	0.118	0.219	64.98
90	26.75	34.77	0.278	0.578	67.52
95	26.60	34.20	0.202	0.379	65.24
101	24.46	34.70	0.153	0.354	69.77
105	23.49	35.12	0.093	0.308	76.79
109	23.37	35.39	0.042	0.140	76.79
115	23.49	35.00	0.041	0.123	74.94
120	23.01	34.12	0.031	0.078	71.42
141	21.20	35.12	0.018	0.098	84.79

# EQUALIS -station 154

29/11/92, 22h 6 TU

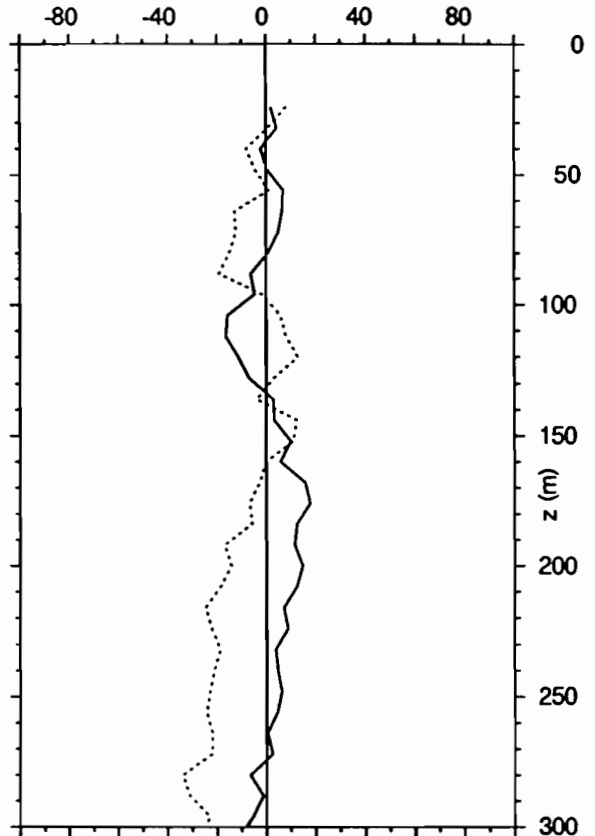
1°45 S 156°10 E

30/11/92, 8h 6 locale



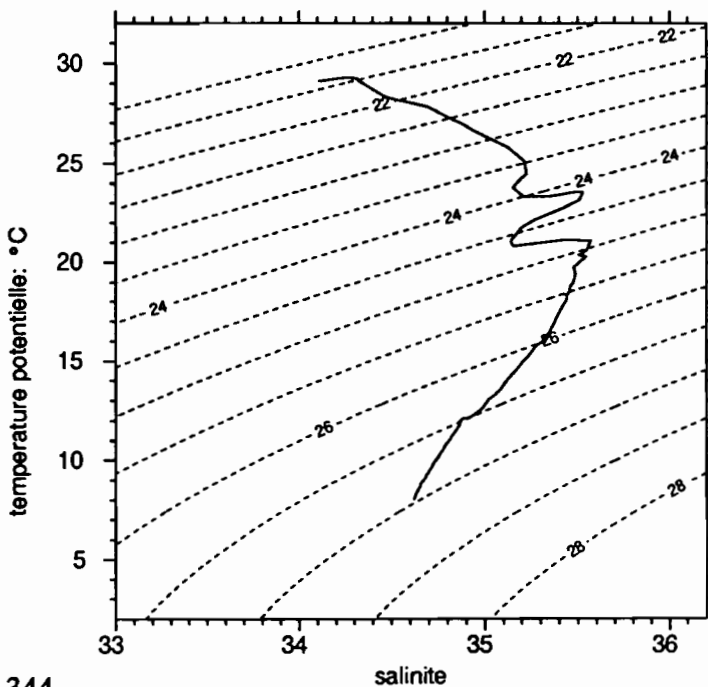
— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.107	34.108
fin	510.0	8.078	34.619



— composante zonale: cm/s  
- - - composante meridienne: cm/s

	Z	U	V
debut	24.0	2.1	8.3
fin	416.0	2.2	-14.5



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.144	34.132		
20.0	29.275	34.240		
30.0	29.275	34.259	3.8	2.8
40.0	29.286	34.291	-2.1	-8.0
50.0	29.246	34.317	2.2	-3.0
75.0	28.111	34.566	3.4	-13.2
100.0	23.813	35.154	-10.2	2.3
125.0	23.080	35.484	-8.4	6.8
150.0	20.857	35.157	8.3	11.3
200.0	18.231	35.442	14.7	-14.3
250.0	12.146	34.897	5.9	-23.3
300.0	11.738	34.861	-8.1	-24.5
400.0	10.085	34.741	-11.1	-9.7
500.0	8.509	34.641		

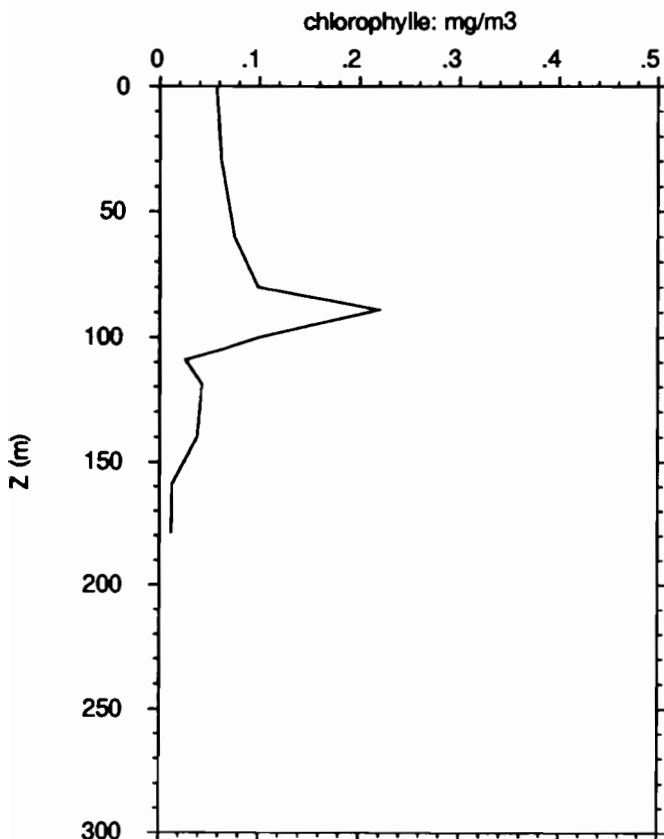
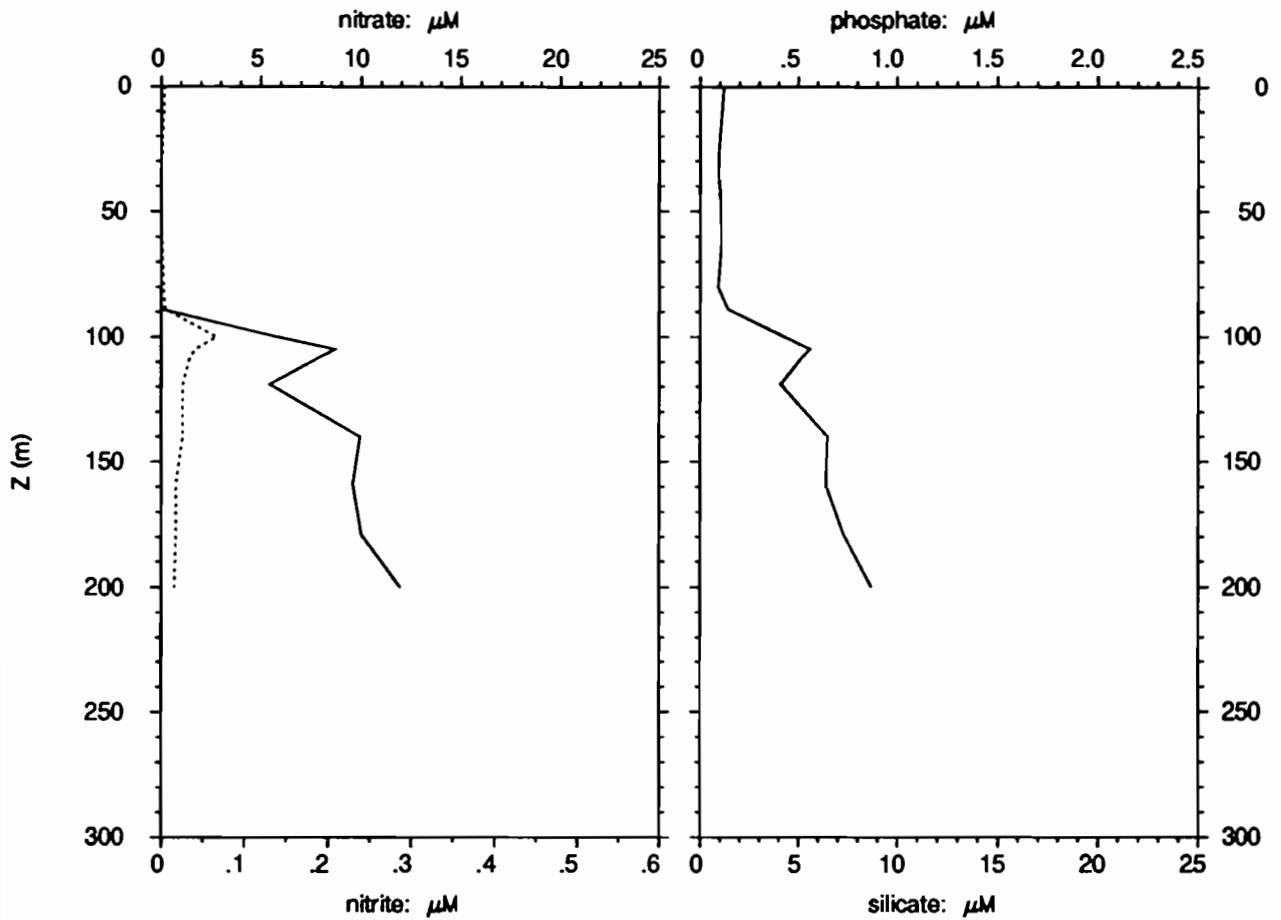
# EQUALIS - station154

1°45 S 156°10 E

29/11/92, 22h 6 TU

30/11/92, 8h 6 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.006	0.004	0.12	
30	0.002	0.001	0.09	
60	0.003	0.001	0.11	
80	0.001	0.003	0.09	
89	0.002	0.005	0.14	
100	5.84	0.067	0.43	
105	8.69	0.041	0.56	
109	7.71	0.034	0.51	
119	5.44	0.026	0.41	
140	9.95	0.026	0.65	
159	9.58	0.018	0.64	
179	10.00	0.018	0.73	
200	11.95	0.016	0.87	

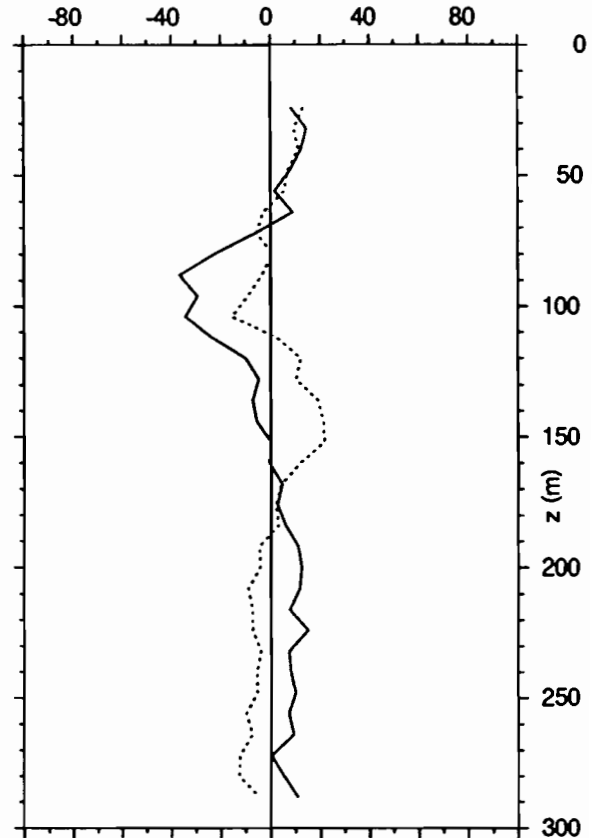
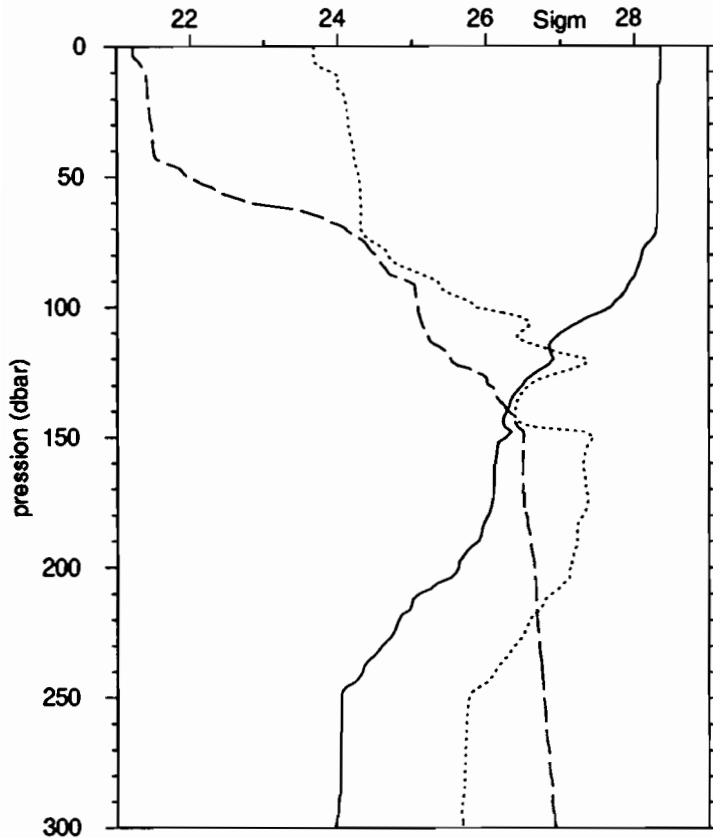
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.26	34.13	0.057	0.038	39.80
30	29.29	34.26	0.062	0.035	35.95
60	29.23	34.23	0.075	0.081	52.00
80	28.16	34.20	0.099	0.249	71.58
89	26.76	34.91	0.219	0.387	63.80
100	24.44	34.98	0.100	0.376	78.94
105	23.60	34.05	0.062	0.344	84.79
109	23.36	35.34	0.026	0.143	84.52
119	23.46	35.37	0.043	0.063	59.56
140	21.15	35.12	0.038	0.134	77.87
159	20.34	35.34	0.013	0.047	78.10
179	19.57	35.46	0.012	0.025	67.12
200	17.80	35.39			

# EQUALIS -station 155

1°45 S 156°10 E

30/11/92, 1h 0 TU

30/11/92, 11h 0 locale

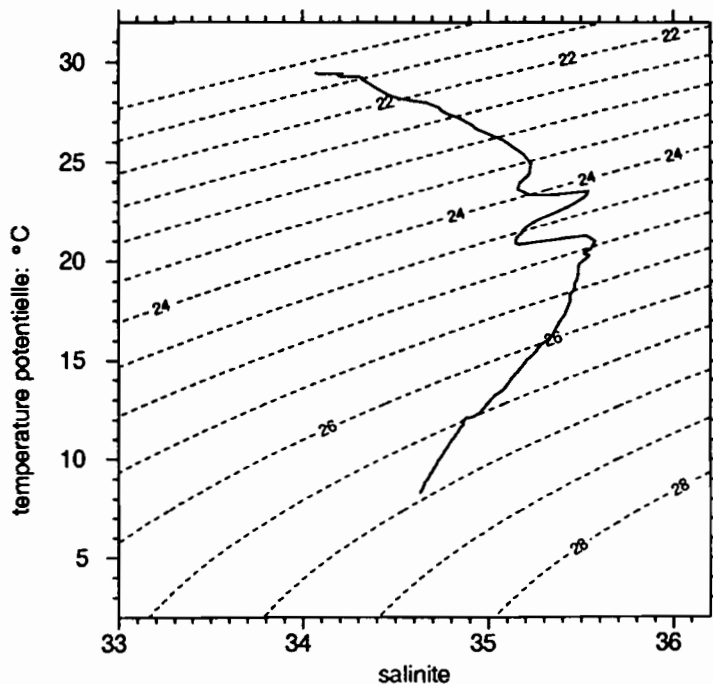


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.444	34.070
fin	504.0	8.351	34.633

	Z	U	V
debut	24.0	8.2	13.2
fin	288.0	10.7	-4.6



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.427	34.175		
20.0	29.278	34.238		
30.0	29.282	34.257	12.9	10.3
40.0	29.286	34.283	12.4	11.2
50.0	29.266	34.312	6.4	6.7
75.0	28.796	34.386	-12.3	-3.2
100.0	26.690	34.939	-31.8	-12.3
125.0	22.650	35.404	-6.7	10.9
150.0	21.031	35.578	-1.3	21.5
200.0	18.460	35.449	12.4	-4.2
250.0	12.144	34.904	9.3	-6.4
300.0	11.814	34.869		
400.0	10.118	34.744		
500.0	8.476	34.640		

# EQUALIS - station155

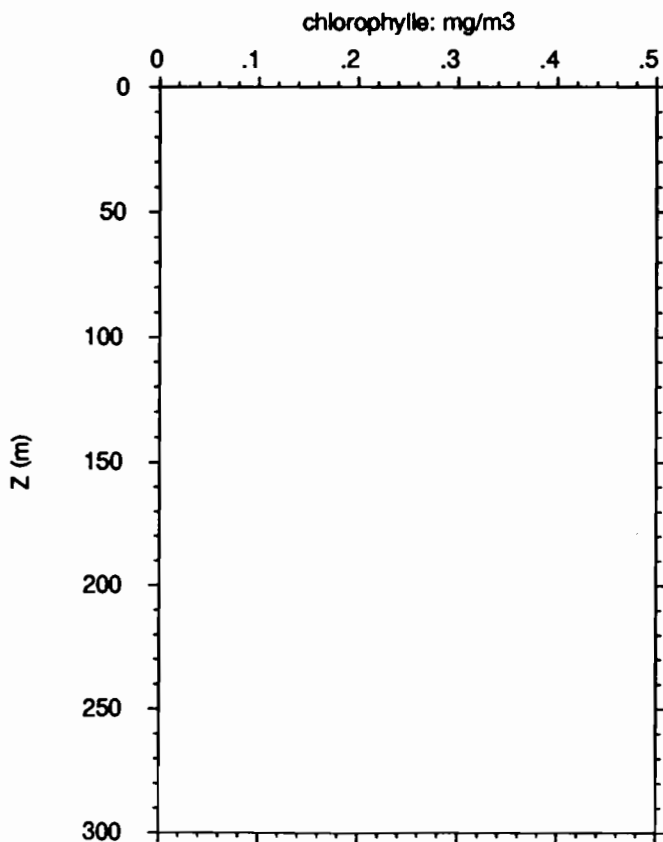
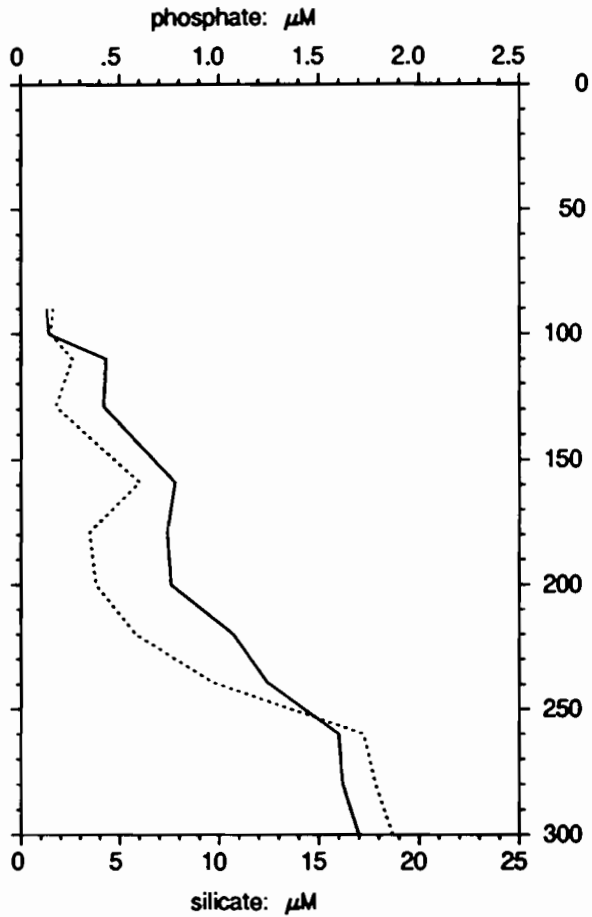
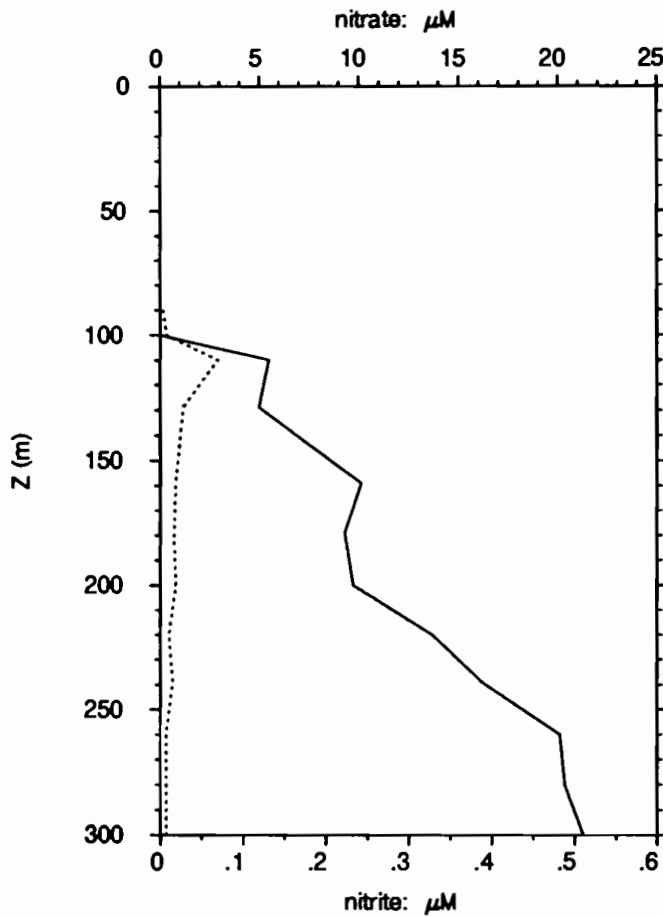
1°45 S 156°10 E

30/11/92, 1h 0 TU

30/11/92, 11h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	0.000	0.004	0.13	1.6
100	0.000	0.008	0.14	1.5
110	5.49	0.070	0.43	2.6
129	4.99	0.028	0.42	1.8
159	10.12	0.019	0.78	6.0
179	9.30	0.017	0.74	3.5
200	9.71	0.019	0.76	3.8
220	13.65	0.011	1.07	5.8
239	16.17	0.015	1.24	9.6
260	20.08	0.007	1.60	17.2
280	20.33	0.007	1.62	17.8
300	21.26	0.007	1.70	18.7

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
90	27.69	34.44			
100	26.69	34.19			
110	24.74	34.93			
129	23.58	35.51			
159	20.88	35.14			
179	20.37	35.52			
200	20.64	35.21			
220	16.00	35.11			
239	13.83	34.76			
260	12.18	34.86			
280	12.13	34.82			
300	11.86	34.86			

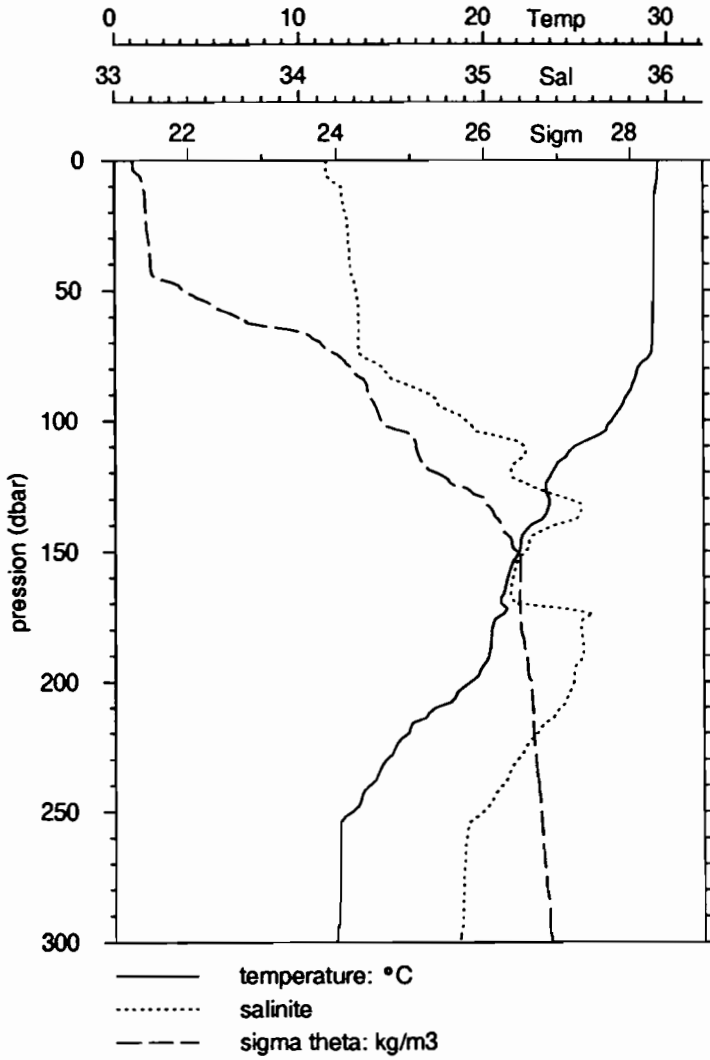


# EQUALIS -station 157

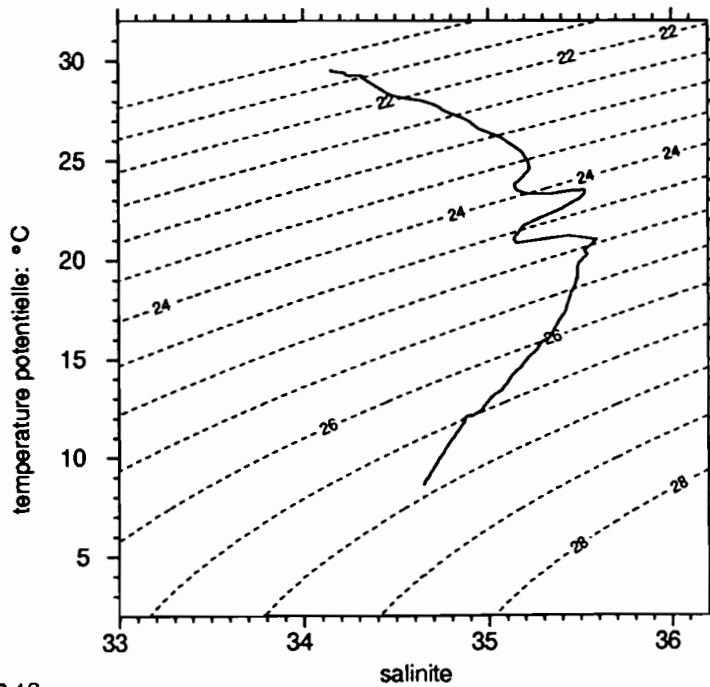
1°45 S 156°10 E

30/11/92, 1h47 TU

30/11/92, 11h47 locale



	P	T	S
debut	6.0	29.512	34.147
fin	500.0	8.662	34.648



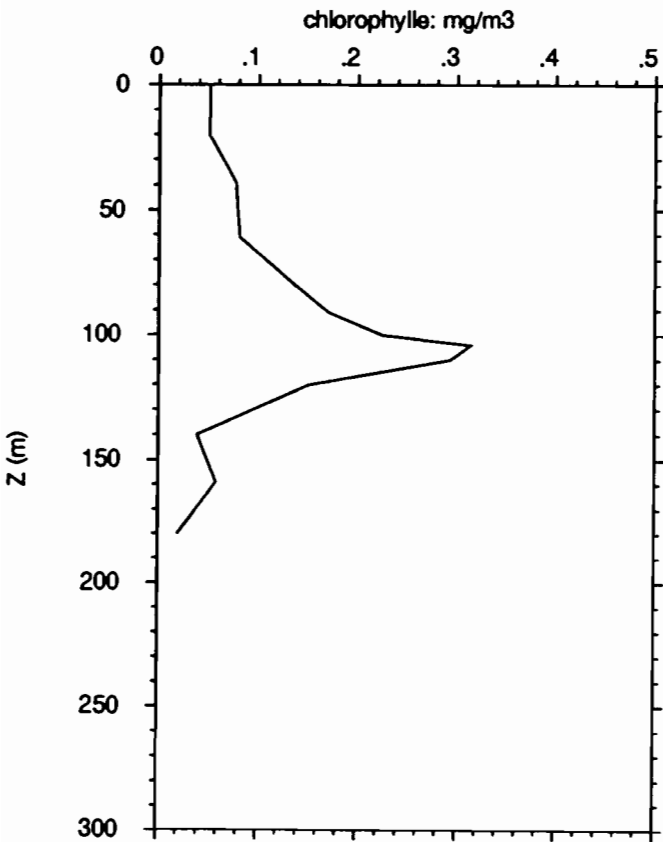
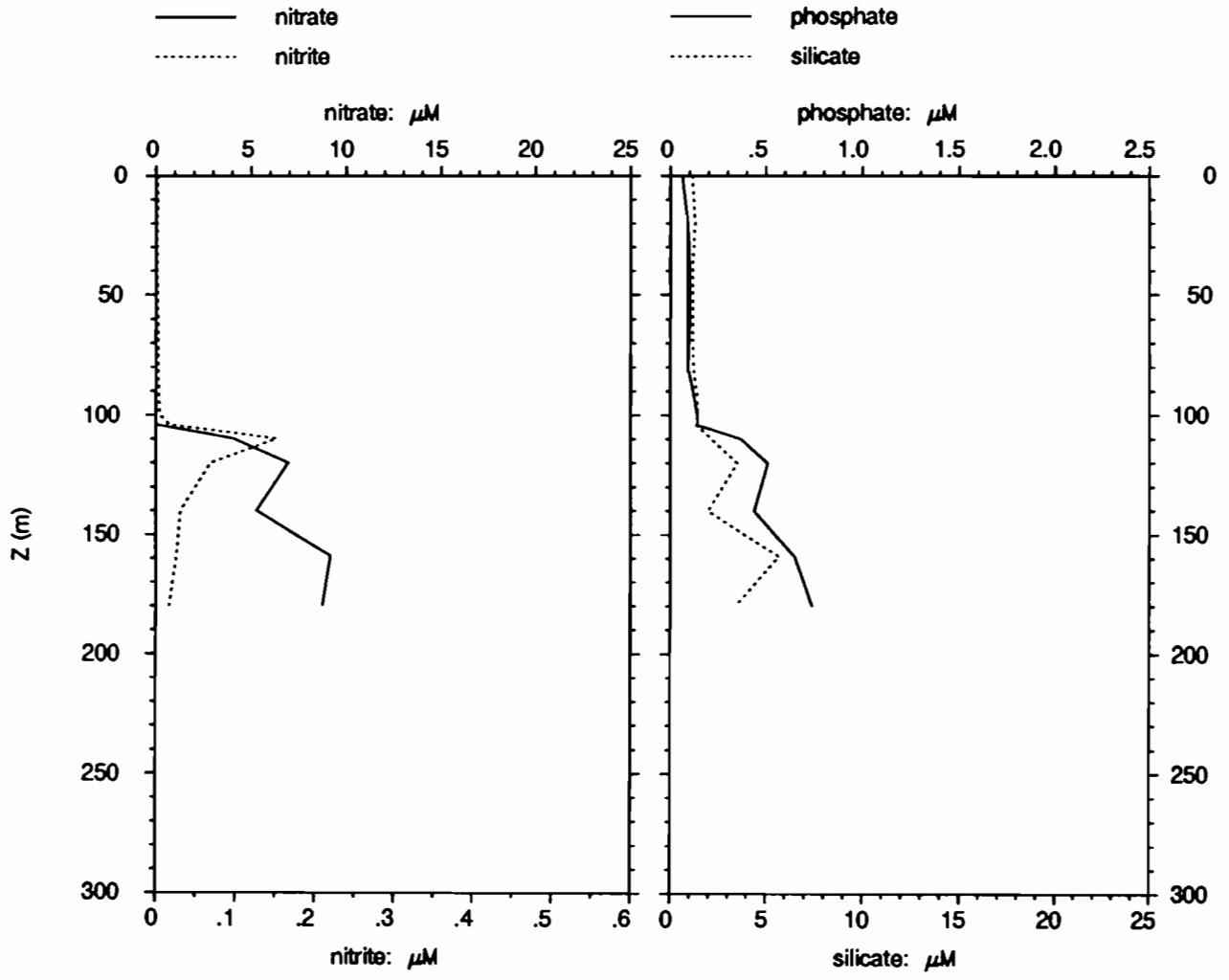
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.406	34.224		
20.0	29.291	34.248		
30.0	29.289	34.264		
40.0	29.282	34.275		
50.0	29.286	34.306		
75.0	29.059	34.340		
100.0	26.980	34.903		
125.0	23.350	35.249		
150.0	21.892	35.227		
200.0	19.246	35.486		
250.0	12.833	34.994		
300.0	11.966	34.863		
400.0	10.174	34.748		
500.0	8.662	34.648		

# EQUALIS - station157

1°45 S 156°10 E

30/11/92, 1h47 TU

30/11/92, 11h47 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.002	0.003	0.06	1.1
20	0.002	0.002	0.09	1.3
39	0.002	0.002	0.10	1.1
61	0.001	0.003	0.10	1.1
80	0.001	0.003	0.09	1.2
91	0.001	0.004	0.12	1.4
100	0.001	0.005	0.14	1.4
104	0.013	0.017	0.14	1.3
110	4.07	0.152	0.37	2.2
120	6.94	0.069	0.51	3.5
140	5.28	0.031	0.44	2.0
159	9.17	0.026	0.65	5.7
180	8.76	0.017	0.74	3.4

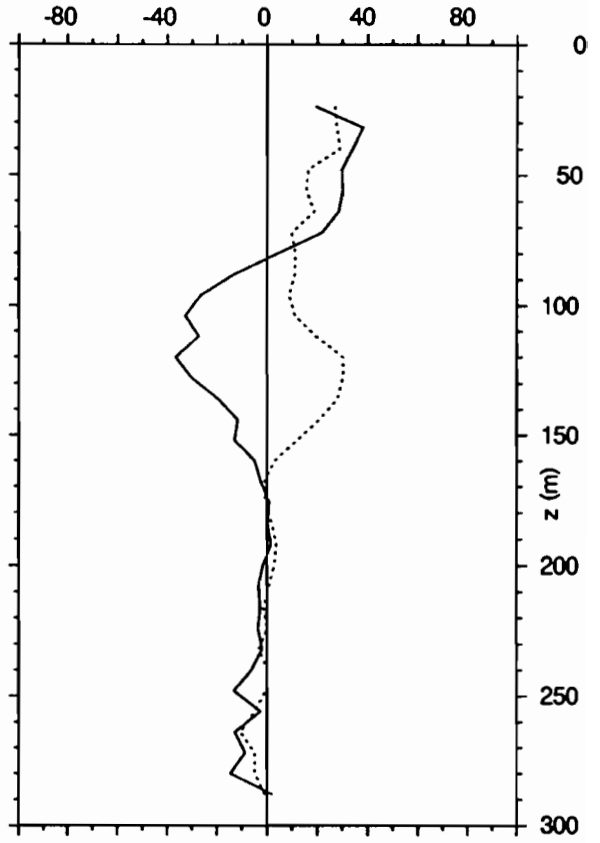
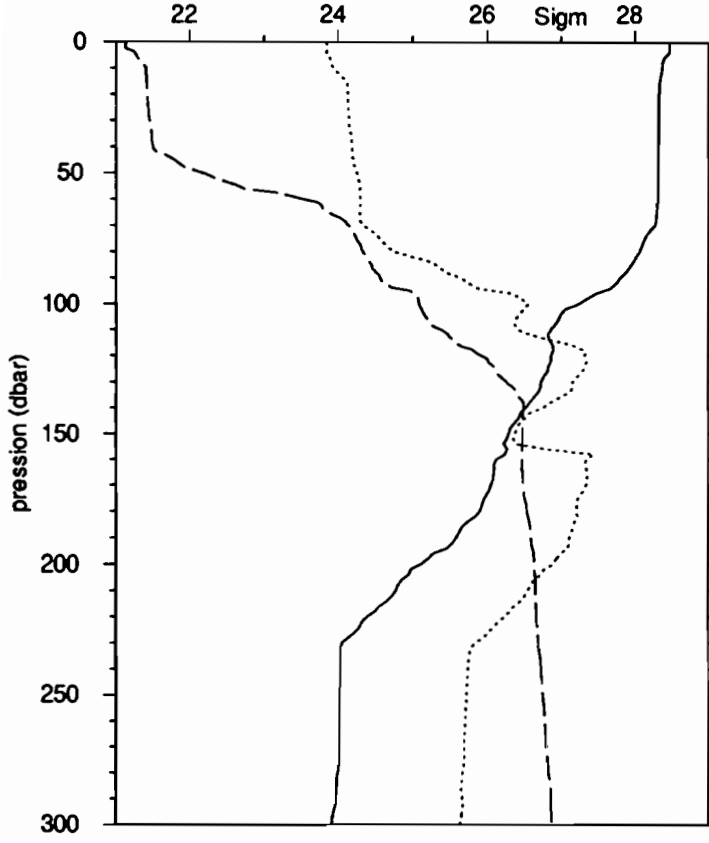
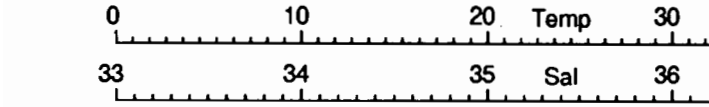
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.08	34.11	0.051	0.036	41.28
20	29.28	34.25	0.050	0.049	49.13
39	29.28	34.27	0.077	0.062	44.91
61	29.24	34.17	0.081	0.053	39.55
80	28.41	34.23	0.137	0.104	43.21
91	27.91	34.41	0.171	0.144	45.71
100	26.98	34.61	0.225	0.254	53.04
104	26.46	34.30	0.314	0.369	53.98
110	25.34	34.65	0.293	0.394	57.36
120	23.97	34.95	0.151	0.239	61.33
140	23.24	34.38	0.039	0.076	66.21
159	21.18	35.12	0.058	0.127	68.56
180	20.32	35.52	0.020	0.036	63.76

# EQUALIS -station 158

30/11/92, 4h 0 TU

1°45 S 156°10 E

30/11/92, 14h 0 locale

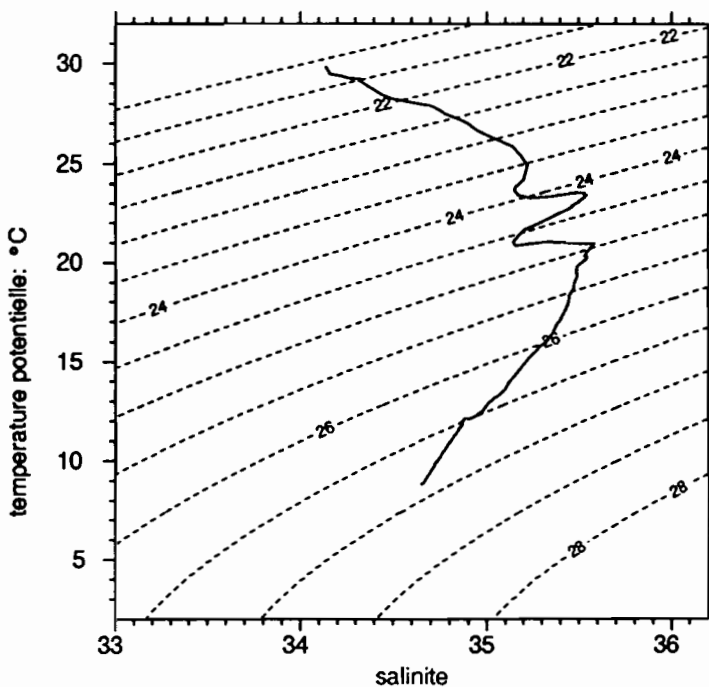


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.859	34.138
fin	498.0	8.850	34.652

	Z	U	V
debut	24.0	19.4	27.1
fin	288.0	2.2	-0.9



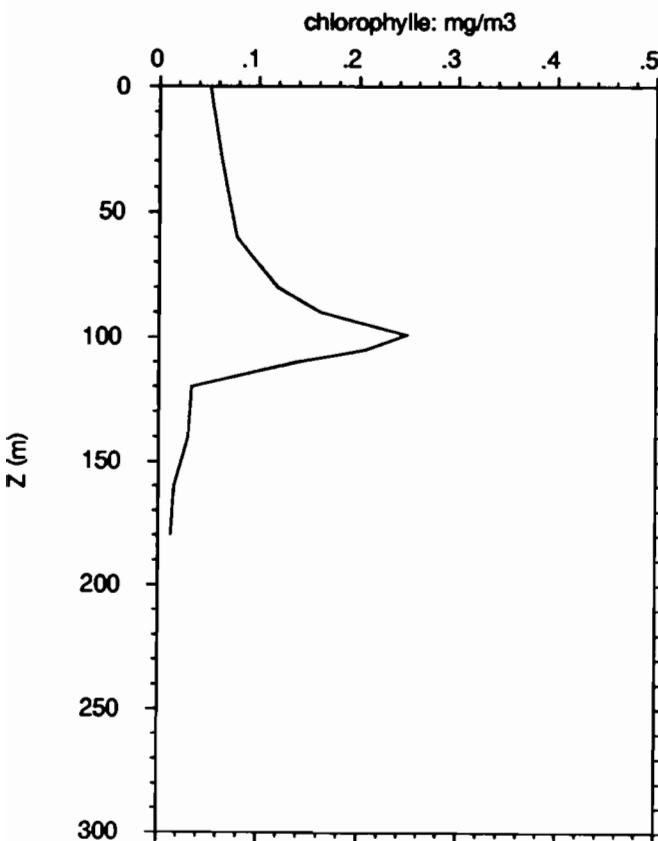
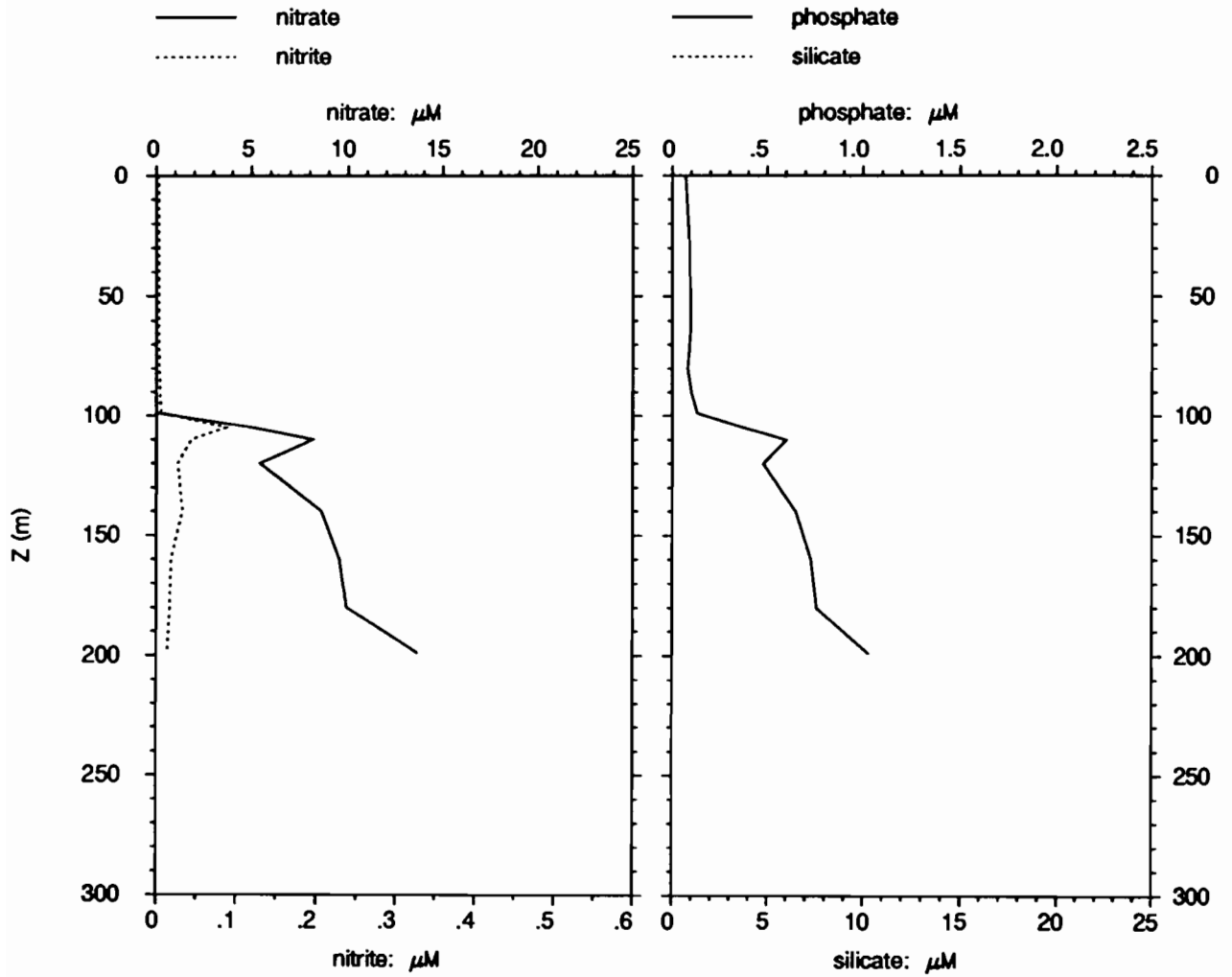
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.470	34.175		
20.0	29.301	34.254		
30.0	29.296	34.261	33.5	27.6
40.0	29.270	34.275	34.1	29.0
50.0	29.275	34.302	29.9	16.3
75.0	28.557	34.426	15.3	10.4
100.0	24.972	35.222	-29.7	10.0
125.0	23.310	35.524	-32.6	30.2
150.0	21.179	35.153	-12.7	14.2
200.0	16.489	35.359	-1.6	2.9
250.0	12.160	34.891	-10.5	-1.5
300.0	11.676	34.854		
400.0	10.166	34.744		

# EQUALIS - station158

1°45 S 156°10 E

30/11/92, 4h 0 TU

30/11/92, 14h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.003	0.07	
30	0.001	0.003	0.09	
60	0.001	0.003	0.10	
80	0.001	0.004	0.08	
90	0.000	0.005	0.10	
99	0.000	0.006	0.13	
105	5.02	0.088	0.38	
110	8.17	0.044	0.60	
120	5.43	0.027	0.48	
140	8.60	0.033	0.65	
160	9.54	0.019	0.73	
180	9.92	0.017	0.76	
199	13.66	0.014	1.03	

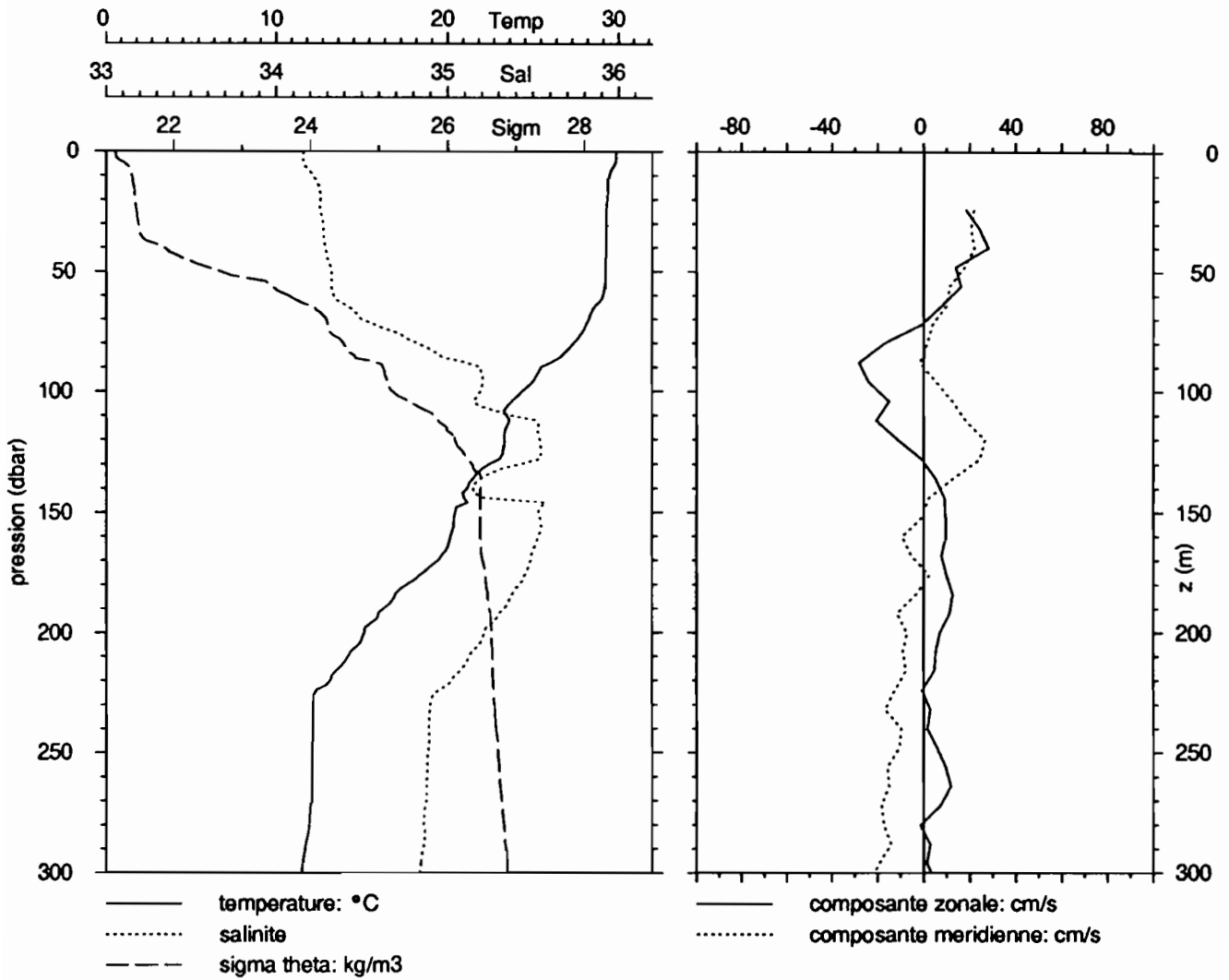
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.10	34.15	0.051	0.052	50.21
30	29.30	34.25	0.063	0.058	48.13
60	29.24	34.24	0.078	0.097	55.26
80	28.62	34.11	0.119	0.105	46.92
90	27.82	34.34	0.162	0.165	50.52
99	26.74	33.87	0.248	0.289	53.78
105	24.11	34.97	0.206	0.344	62.57
110	23.57	35.14	0.138	0.210	60.45
120	23.48	35.07	0.033	0.110	76.83
140	21.81	34.66	0.030	0.111	78.88
160	20.37	35.16	0.016	0.050	75.78
180	18.94	34.13	0.013	0.039	75.64
199	15.95	35.26			

# EQUALIS -station 159

1°45 S 156°10 E

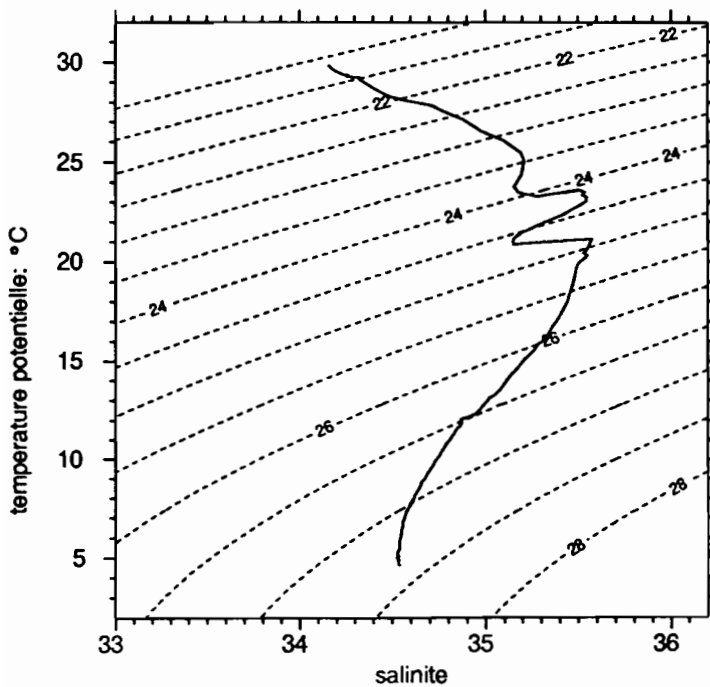
30/11/92, 7h 1 TU

30/11/92, 17h 1 locale



	P	T	S
debut	4.0	29.852	34.161
fin	998.0	4.703	34.544

	Z	U	V
debut	24.0	18.5	21.9
fin	376.0	11.3	-14.0



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.478	34.218		
20.0	29.350	34.261		
30.0	29.306	34.276	22.8	20.9
40.0	29.268	34.289	28.1	22.1
50.0	29.258	34.326	14.6	16.1
75.0	27.918	34.677	-6.9	3.0
100.0	24.375	35.192	-19.4	9.1
125.0	23.243	35.547	-4.6	25.2
150.0	20.451	35.532	9.4	0.0
200.0	15.174	35.215	7.0	-7.1
250.0	12.158	34.887	6.8	-11.8
300.0	11.522	34.841	3.3	-21.1
400.0	10.365	34.760		
500.0	8.892	34.659		
600.0	7.064	34.567		
700.0	6.448	34.551		
800.0	6.099	34.545		
900.0	5.494	34.536		

# EQUALIS - station159

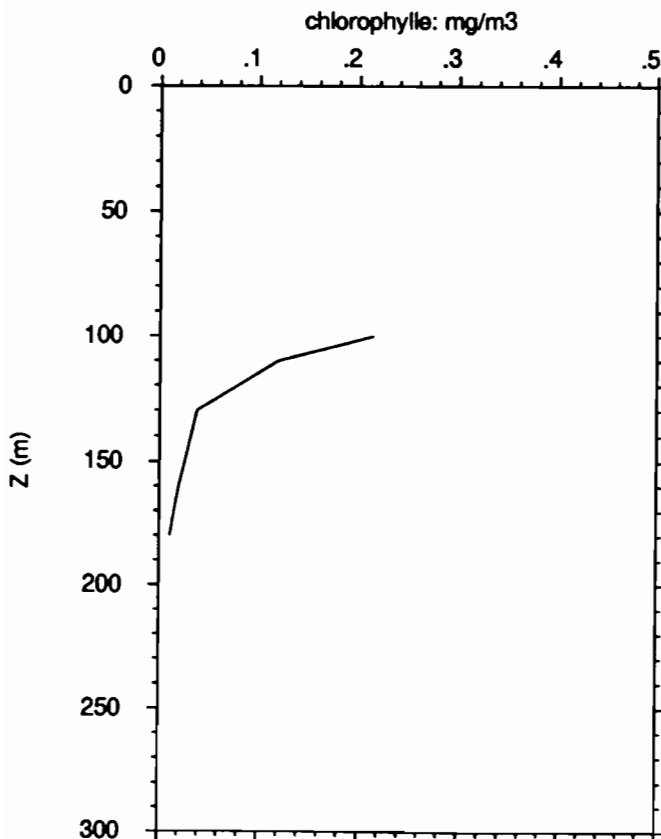
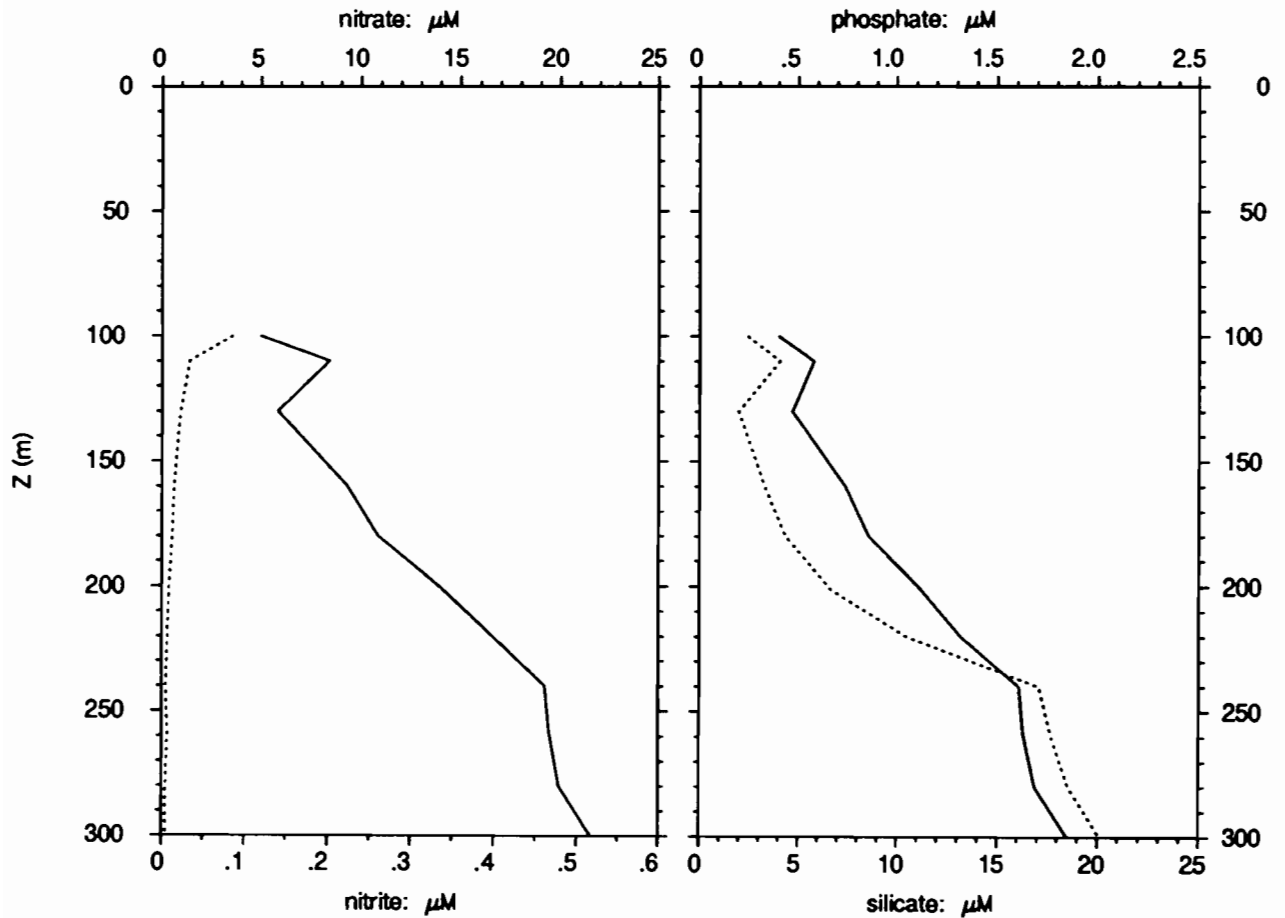
1°45 S 156°10 E

30/11/92, 7h 1 TU

30/11/92, 17h 1 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
100	4.98	0.086	0.40	2.4
110	8.41	0.034	0.58	4.1
130	5.85	0.023	0.47	2.0
160	9.31	0.015	0.74	3.3
180	10.85	0.013	0.86	4.4
201	14.07	0.009	1.12	6.6
220	16.59	0.007	1.32	10.5
240	19.22	0.005	1.61	17.1
258	19.44	0.007	1.63	17.6
280	19.94	0.005	1.69	18.6
300	21.55	0.005	1.85	20.1
1001	27.44	0.002	2.87	60.8

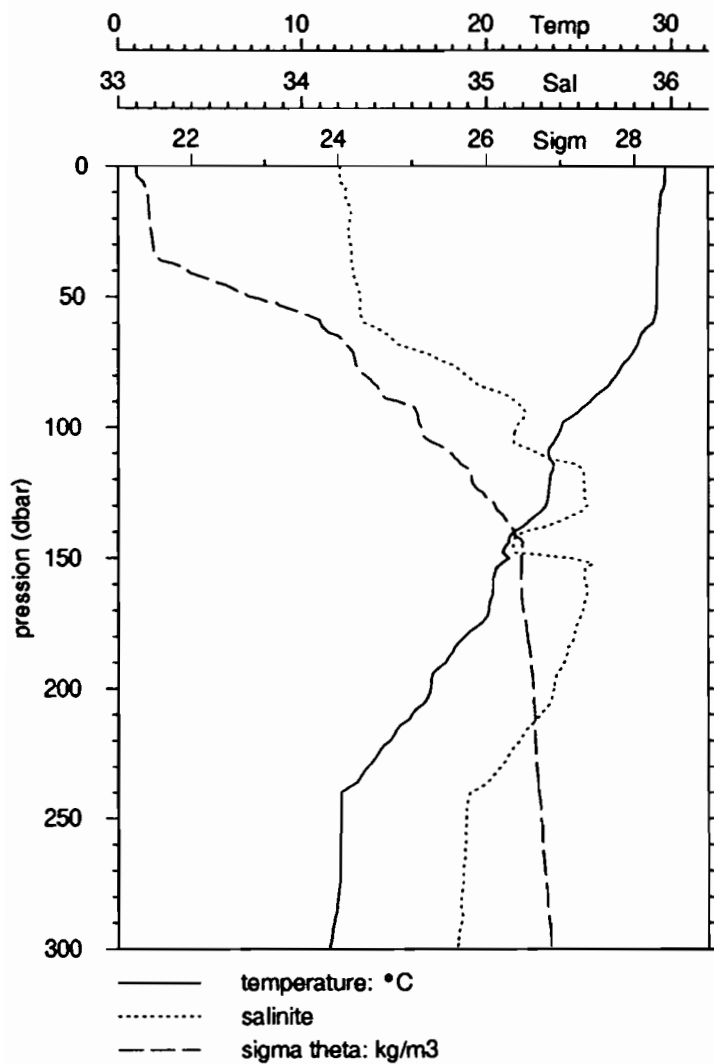
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
100	24.95	34.53	0.214	0.381	64.02
110	23.57	35.13	0.120	0.223	64.92
130	23.25	35.14	0.038	0.085	69.28
160	20.30	34.78	0.020	0.036	64.38
180	18.25	35.39	0.011	0.032	74.78
201	15.23	35.19			
220	13.45	34.42			
240	12.20	34.89			
258	12.13	34.82			
280	11.98	34.64			
300	11.54	34.83			
1001	4.69	34.54			

# EQUALIS -station 170

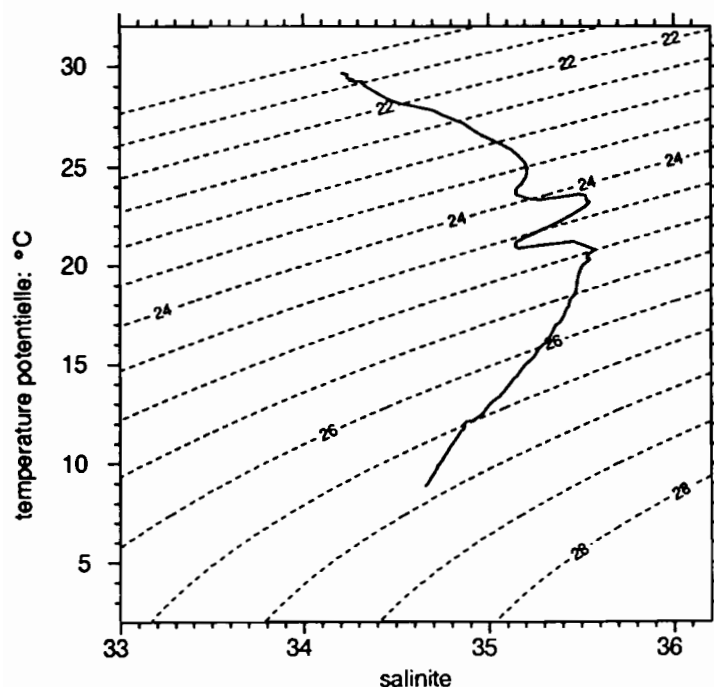
30/11/92, 8h10 TU

1°45 S 156°10 E

30/11/92, 18h10 locale



	P	T	S
debut	6.0	29.672	34.210
fin	498.0	8.907	34.656



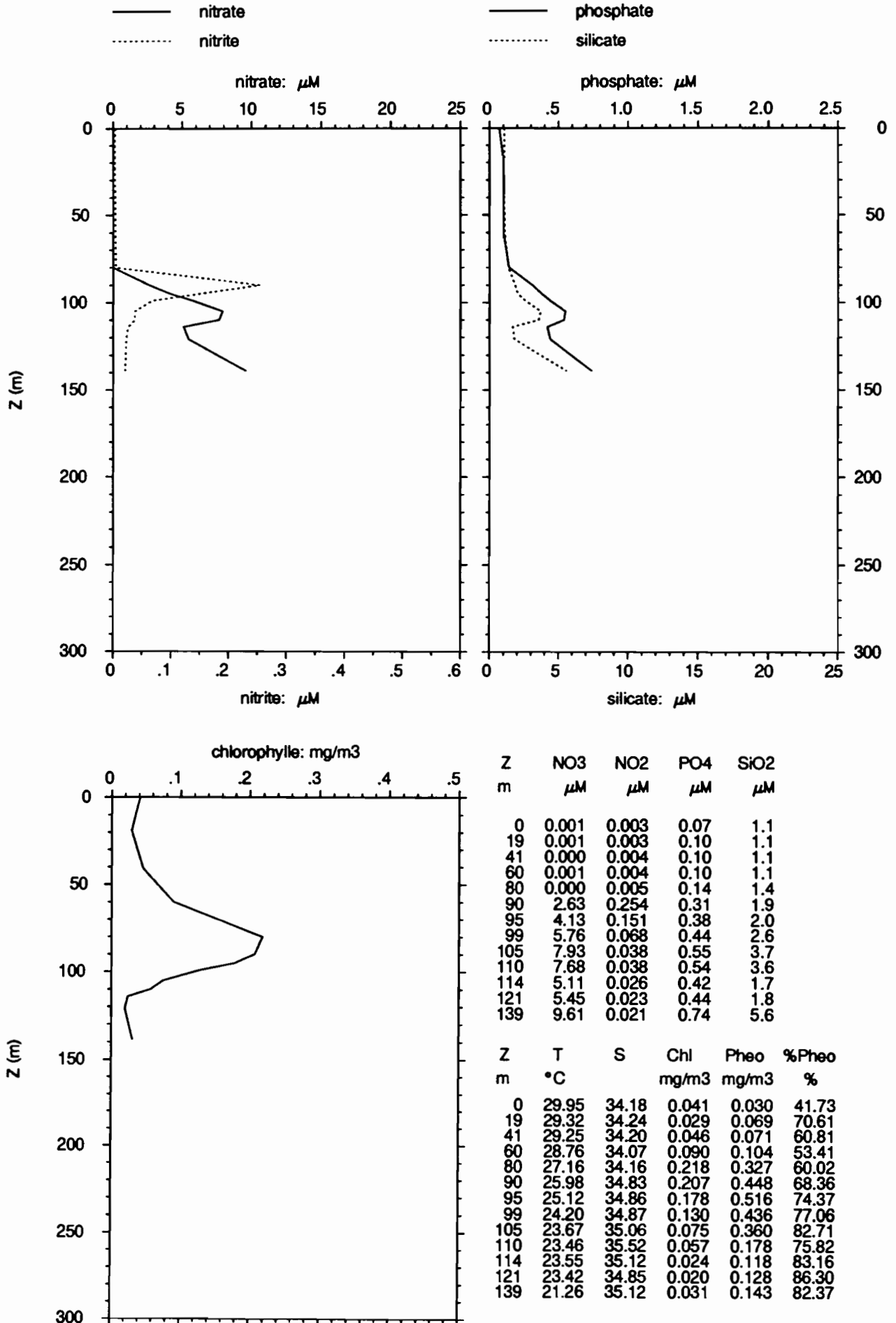
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.462	34.241		
20.0	29.327	34.265		
30.0	29.301	34.271		
40.0	29.269	34.284		
50.0	29.266	34.322		
75.0	27.503	34.785		
100.0	24.052	35.163		
125.0	23.366	35.530		
150.0	21.234	35.459		
200.0	16.995	35.364		
250.0	12.166	34.890		
300.0	11.531	34.840		
400.0	10.337	34.756		

# EQUALIS - station170

1°45 S 156°10 E

30/11/92, 8h10 TU

30/11/92, 18h10 locale



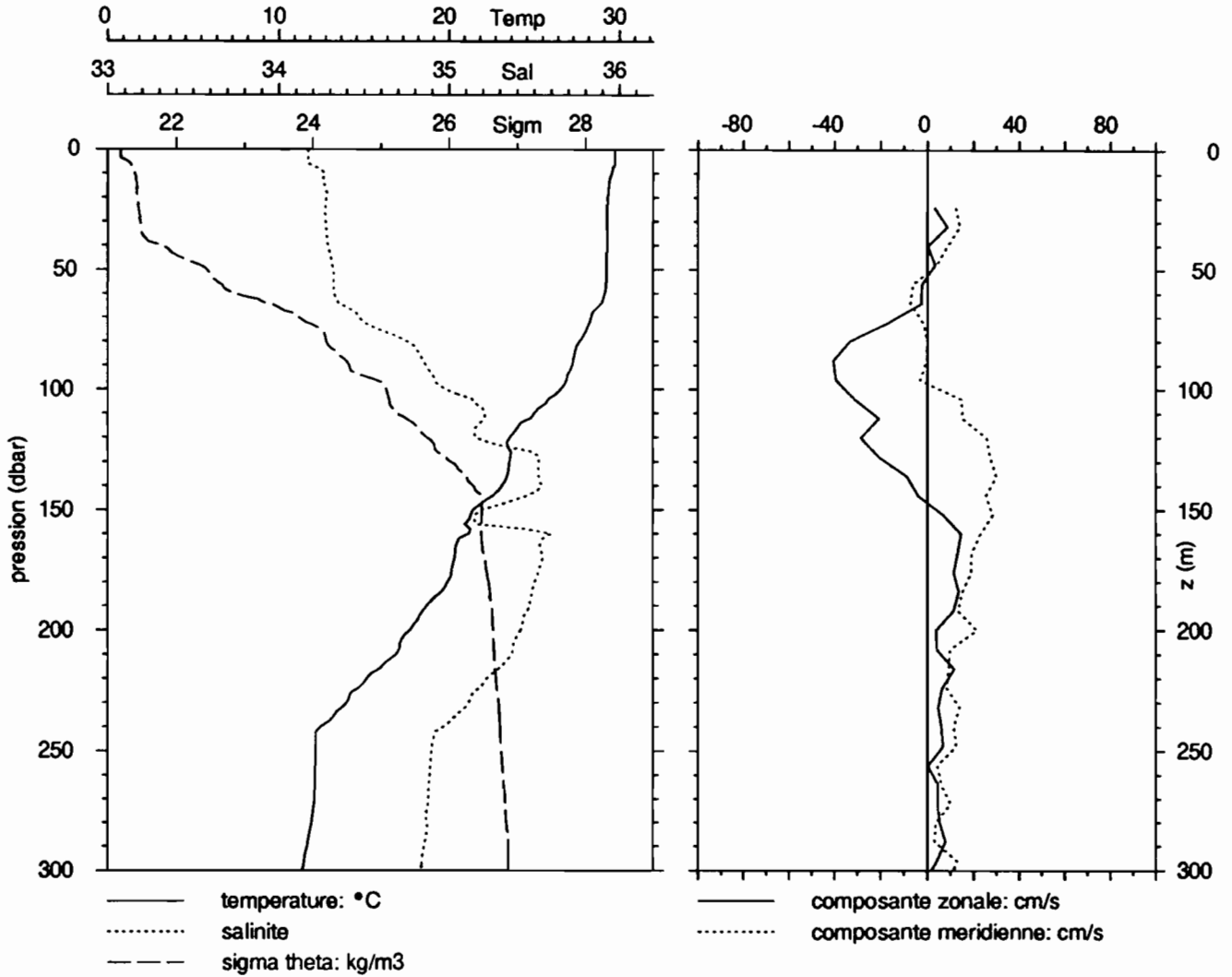


# EQUALIS -station 171

30/11/92, 9h57 TU

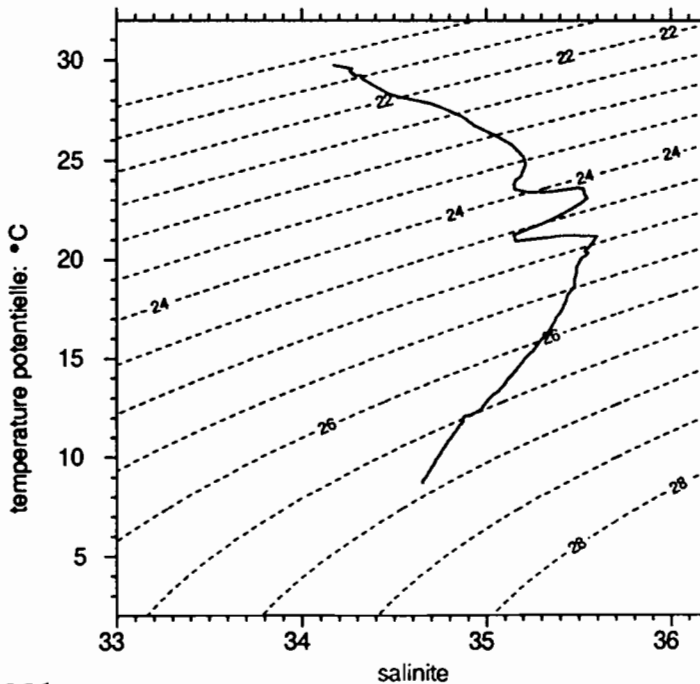
1°45 S 156°10 E

30/11/92, 19h57 locale



	P	T	S
debut	6.0	29.751	34.172
fin	504.0	8.736	34.651

	Z	U	V
debut	24.0	3.1	12.3
fin	336.0	4.6	10.6



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.568	34.270		
20.0	29.328	34.279		
30.0	29.293	34.274	7.3	13.7
40.0	29.269	34.287	0.3	8.8
50.0	29.262	34.320	2.0	1.5
75.0	28.080	34.580	-22.8	1.5
100.0	26.546	34.982	-35.3	5.8
125.0	23.548	35.416	-23.7	26.6
150.0	21.436	35.192	4.3	27.6
200.0	17.733	35.420	3.9	21.4
250.0	12.157	34.897	5.2	10.4
300.0	11.361	34.834	1.8	11.3
400.0	9.950	34.727		
500.0	8.845	34.653		

# EQUALIS - station171

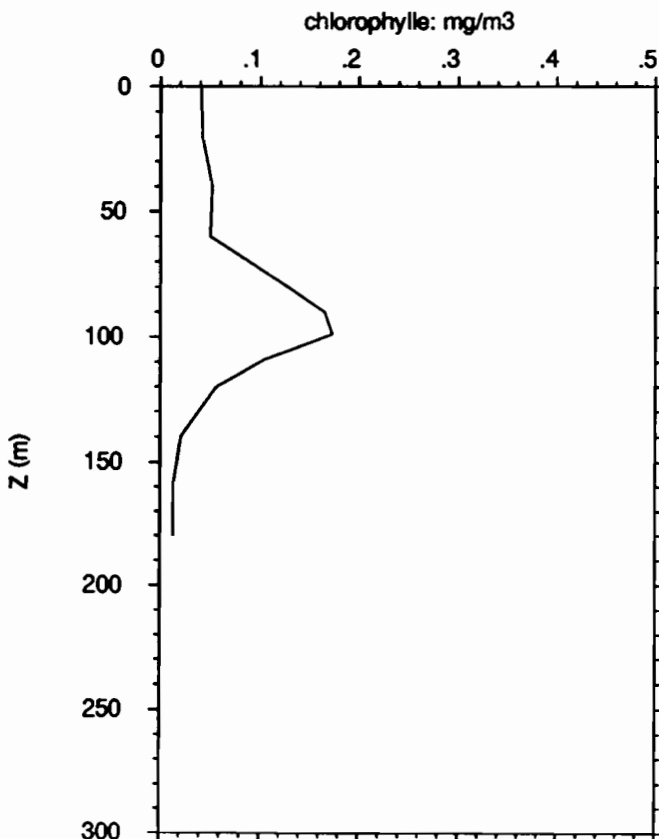
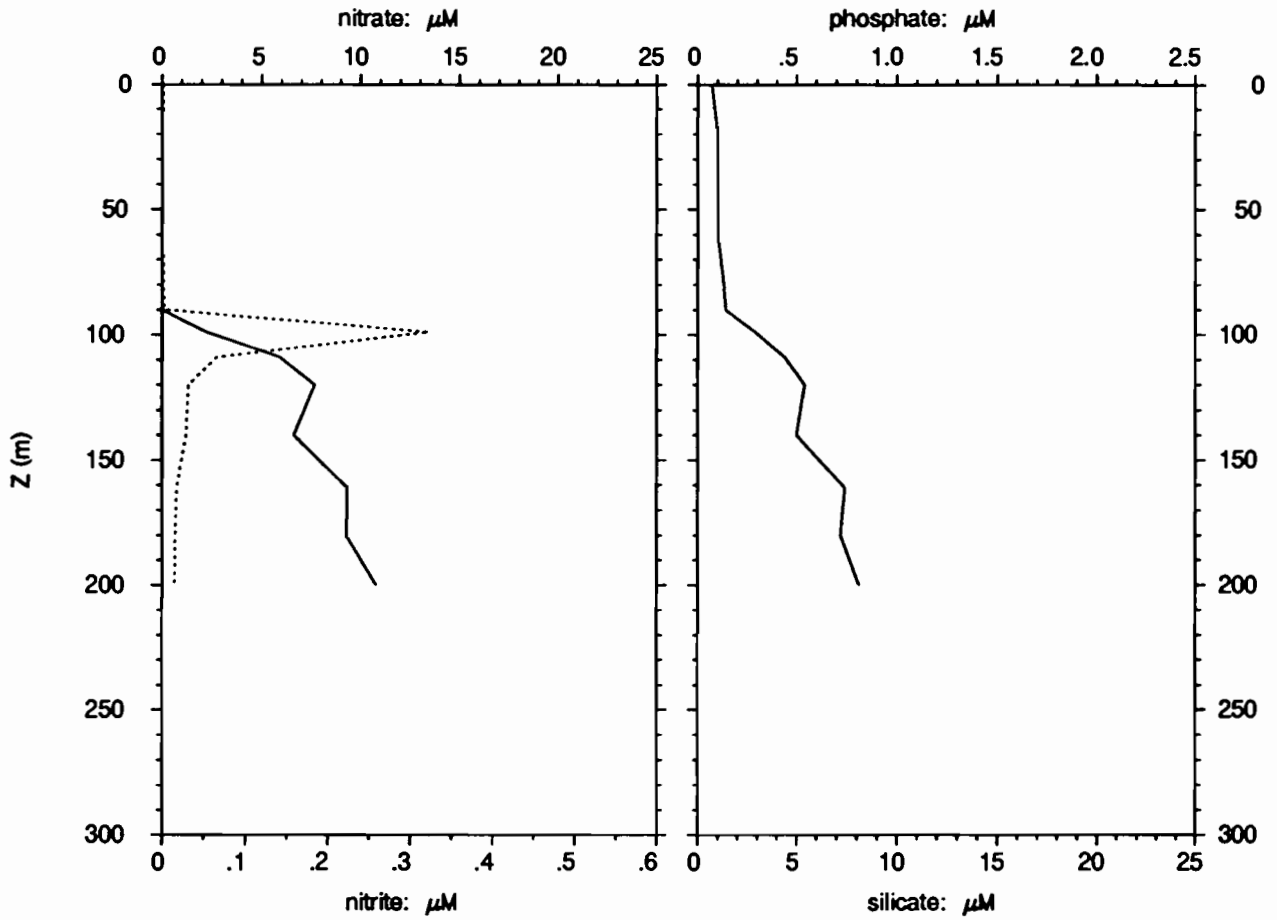
1°45 S 156°10 E

30/11/92, 9h57 TU

30/11/92, 19h57 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.000	0.002	0.07	
20	0.001	0.001	0.10	
40	0.001	0.001	0.10	
60	0.001	0.001	0.10	
80	0.001	0.002	0.13	
90	0.001	0.003	0.14	
99	2.22	0.322	0.29	
109	5.91	0.066	0.44	
120	7.67	0.032	0.54	
140	6.62	0.029	0.50	
161	9.32	0.018	0.74	
180	9.28	0.016	0.72	
200	10.79	0.015	0.81	

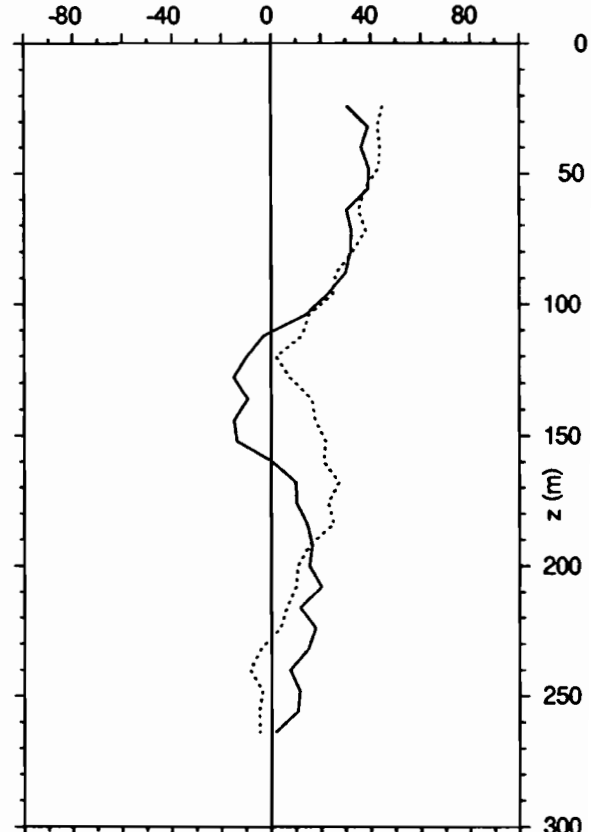
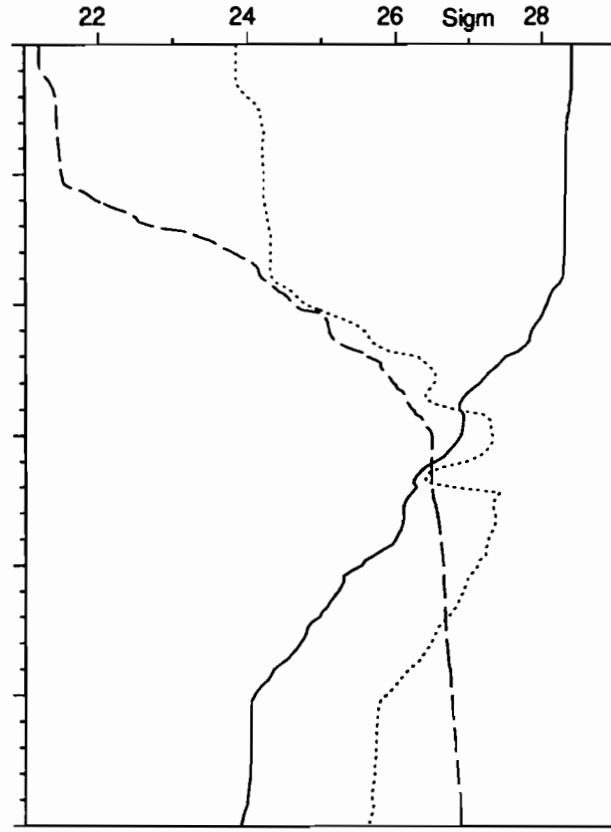
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.85	34.19	0.041	0.030	41.99
20	29.38	34.28	0.042	0.036	45.90
40	29.27	34.26	0.052	0.037	41.57
60	29.23	34.13	0.050	0.066	56.63
80	27.84	34.43	0.128	0.200	60.92
90	27.20	34.57	0.165	0.280	62.92
99	25.92	34.72	0.173	0.435	71.51
109	24.27	34.94	0.104	0.325	75.75
120	23.40	35.30	0.056	0.147	72.51
140	22.59	34.77	0.021	0.079	78.84
161	20.77	35.54	0.013	0.073	85.15
180	20.22	35.02	0.014	0.039	73.68
200	18.35	35.42			

# EQUALIS -station 172

30/11/92, 13h 0 TU

1°45 S 156°10 E

30/11/92, 23h 0 locale

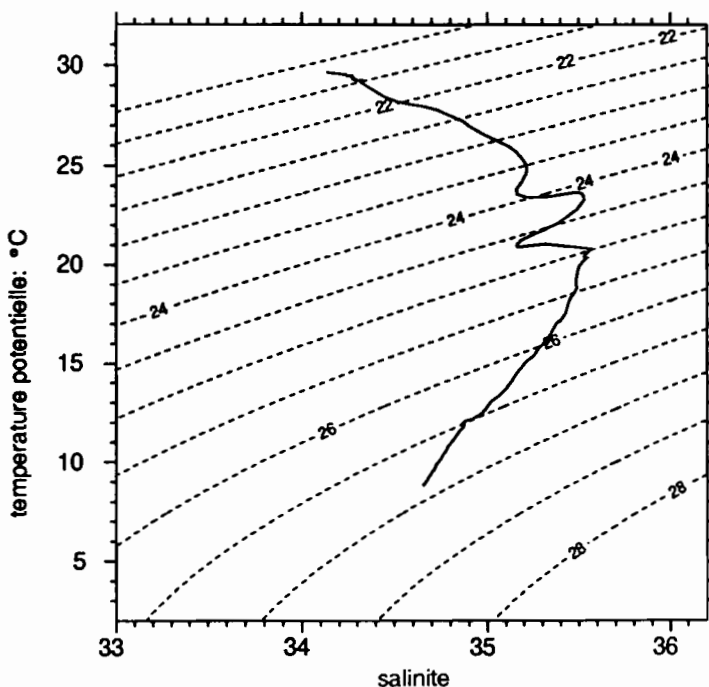


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.646	34.137
fin	500.0	8.862	34.653

	Z	U	V
debut	24.0	30.7	44.7
fin	264.0	1.7	-4.5



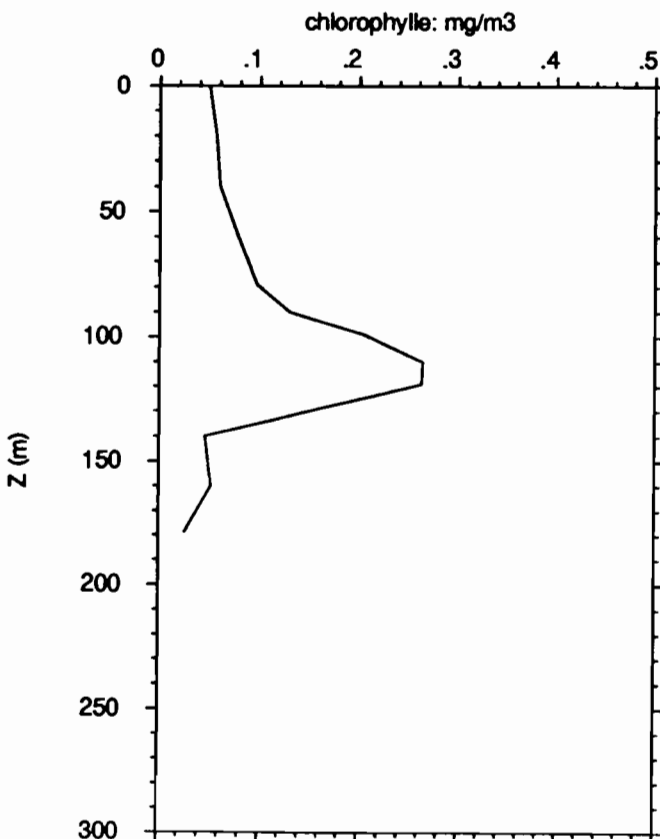
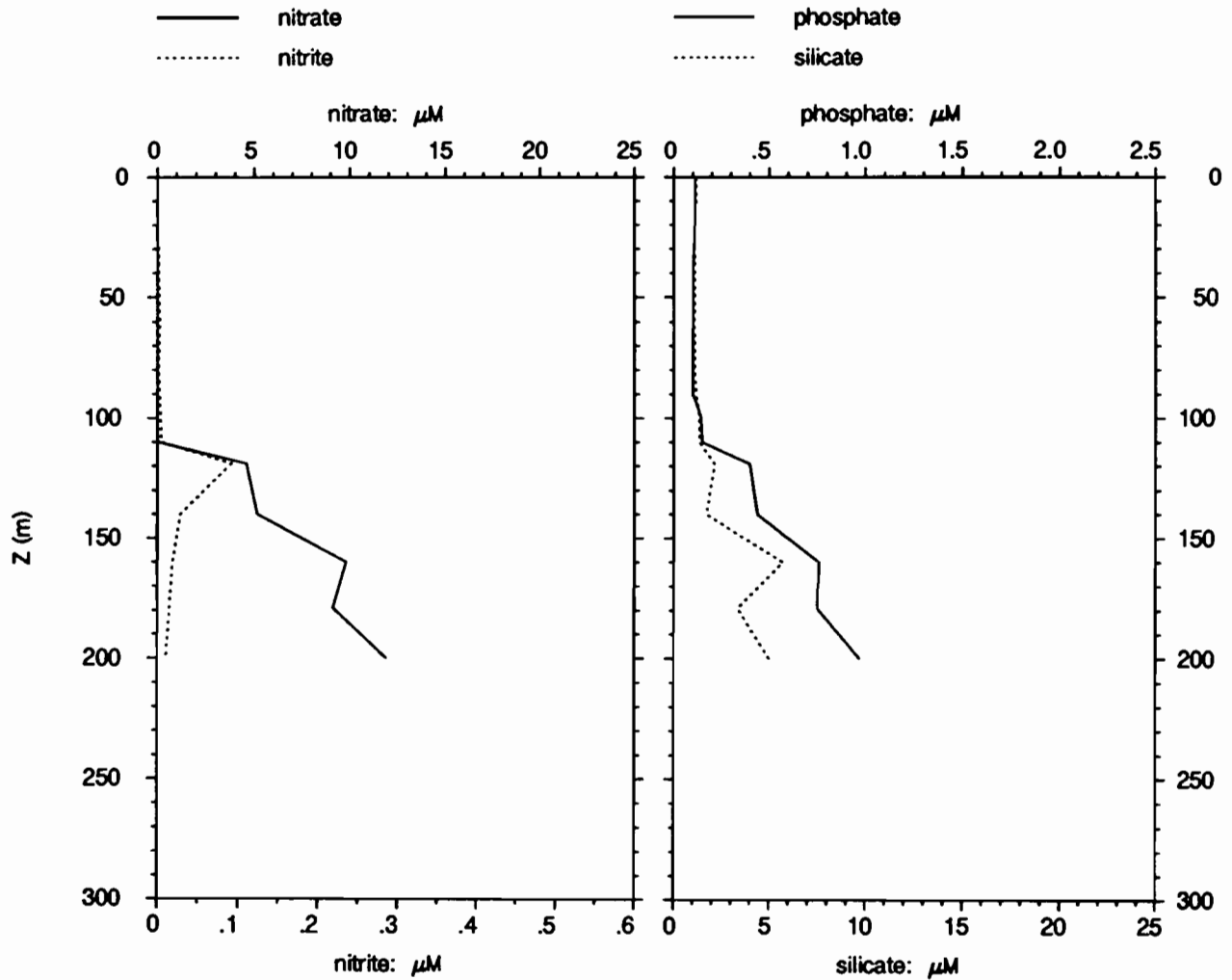
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.649	34.137		
20.0	29.578	34.194		
30.0	29.373	34.273	36.9	43.3
40.0	29.296	34.279	36.4	43.8
50.0	29.298	34.287	39.2	41.9
75.0	29.256	34.323	32.1	36.1
100.0	28.233	34.511	18.3	20.1
125.0	25.255	35.197	-13.0	5.5
150.0	23.517	35.526	-14.0	20.9
200.0	18.086	35.444	15.4	10.6
250.0	12.337	34.941	11.3	-3.8
300.0	11.579	34.846		
400.0	10.222	34.750		
500.0	8.862	34.653		

# EQUALIS - station172

1°45 S 156°10 E

30/11/92, 13h 0 TU

30/11/92, 23h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.001	0.11	1.2
20	0.001	0.001	0.11	1.1
40	0.000	0.002	0.10	1.1
60	0.000	0.003	0.10	1.1
79	0.000	0.002	0.10	1.1
90	0.000	0.003	0.10	1.2
99	0.000	0.004	0.14	1.3
110	0.000	0.005	0.15	1.4
119	4.59	0.091	0.40	2.2
140	5.16	0.029	0.44	1.7
160	9.81	0.019	0.76	5.7
179	9.12	0.015	0.75	3.4
200	11.90	0.011	0.97	5.0

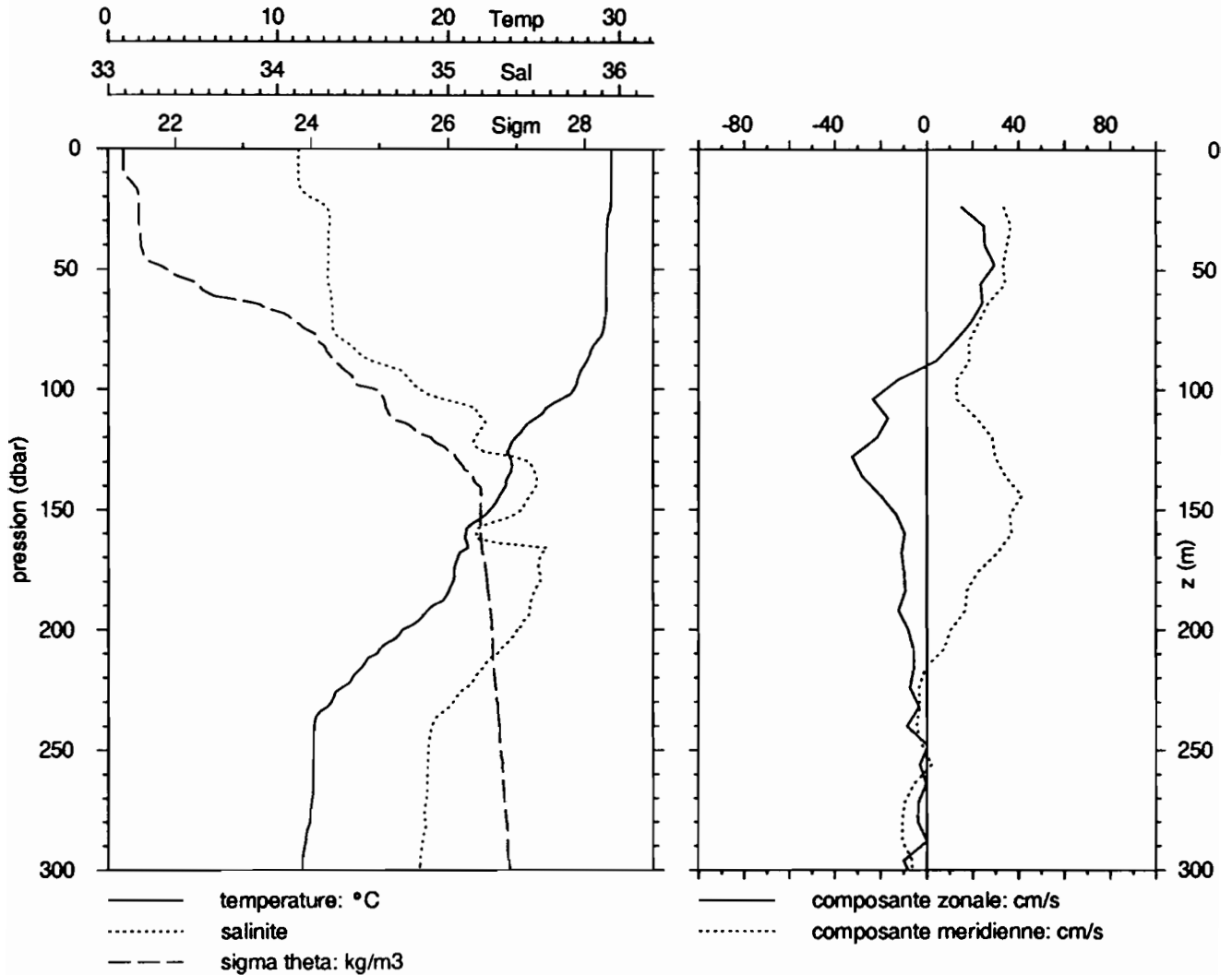
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.78	34.16	0.049	0.037	42.69
20	29.42	34.27	0.056	0.043	43.47
40	29.29	34.28	0.060	0.048	44.74
60	29.26	34.30	0.078	0.068	46.78
79	29.09	34.18	0.097	0.075	43.53
90	28.28	34.38	0.130	0.121	48.11
99	27.72	34.33	0.205	0.179	46.56
110	26.45	34.37	0.264	0.310	53.97
119	25.08	35.17	0.263	0.368	58.31
140	23.55	35.45	0.046	0.124	73.20
160	21.06	35.01	0.052	0.134	71.90
179	20.16	35.13	0.026	0.046	63.90
200	17.08	35.34			

# EQUALIS -station 173

30/11/92, 15h59 TU

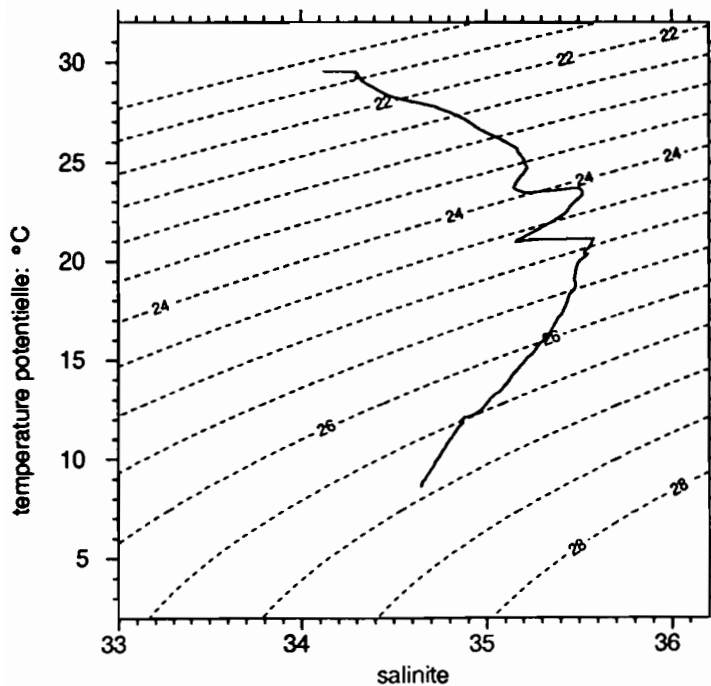
1°45 S 156°10 E

1/12/92, 1h59 locale



	P	T	S
debut	6.0	29.547	34.126
fin	500.0	8.654	34.646

	Z	U	V
debut	24.0	15.1	33.5
fin	312.0	-10.7	11.3



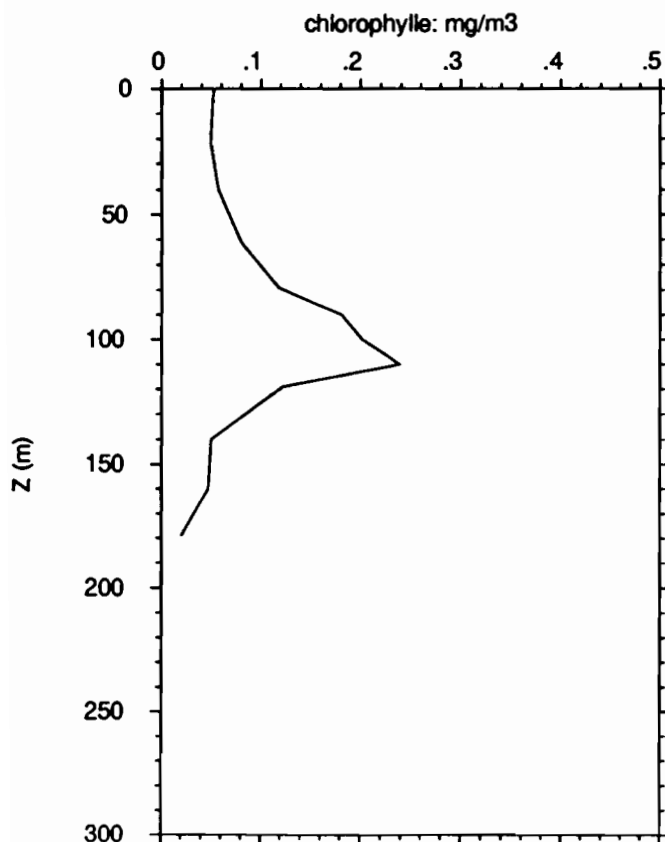
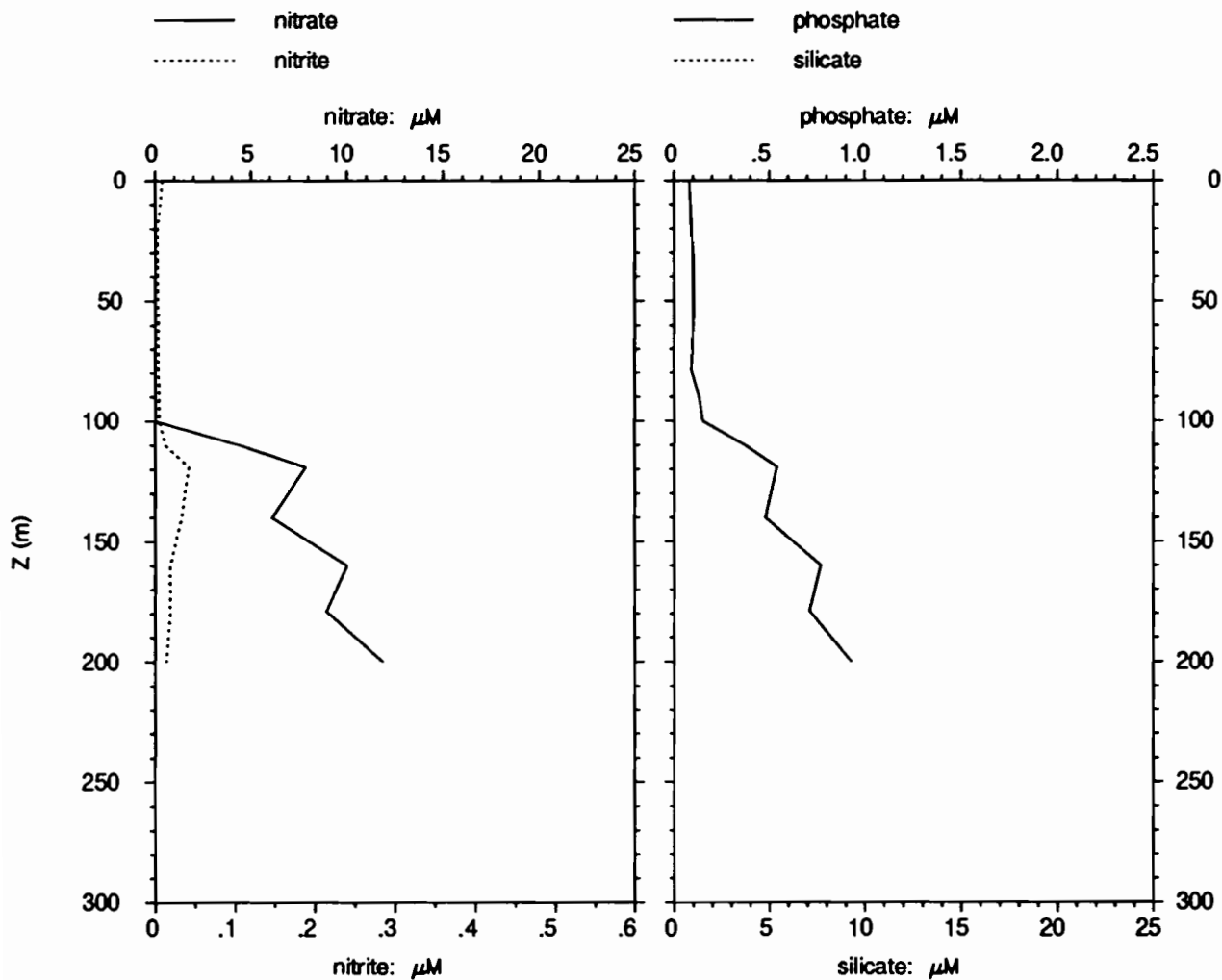
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.556	34.126		
20.0	29.548	34.189		
30.0	29.335	34.313	22.5	35.9
40.0	29.284	34.301	25.4	35.0
50.0	29.272	34.298	28.0	33.5
75.0	29.098	34.329	16.6	21.0
100.0	27.371	34.836	-17.9	13.1
125.0	23.553	35.191	-28.2	29.4
150.0	22.489	35.431	-14.9	37.5
200.0	17.351	35.408	-8.0	10.4
250.0	12.146	34.887	-0.4	-0.9
300.0	11.423	34.834	-8.2	-6.5
400.0	9.961	34.729		
500.0	8.654	34.646		

# EQUALIS - station173

1°45 S 156°10 E

30/11/92, 15h59 TU

1/12/92, 1h59 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.009	0.08	
21	0.000	0.003	0.09	
40	0.000	0.003	0.11	
61	0.000	0.004	0.10	
79	0.000	0.004	0.09	
90	0.000	0.005	0.13	
100	0.001	0.005	0.15	
110	4.42	0.013	0.37	
119	7.85	0.042	0.54	
140	6.12	0.033	0.48	
160	10.02	0.019	0.77	
179	8.95	0.019	0.71	
200	11.86	0.014	0.93	

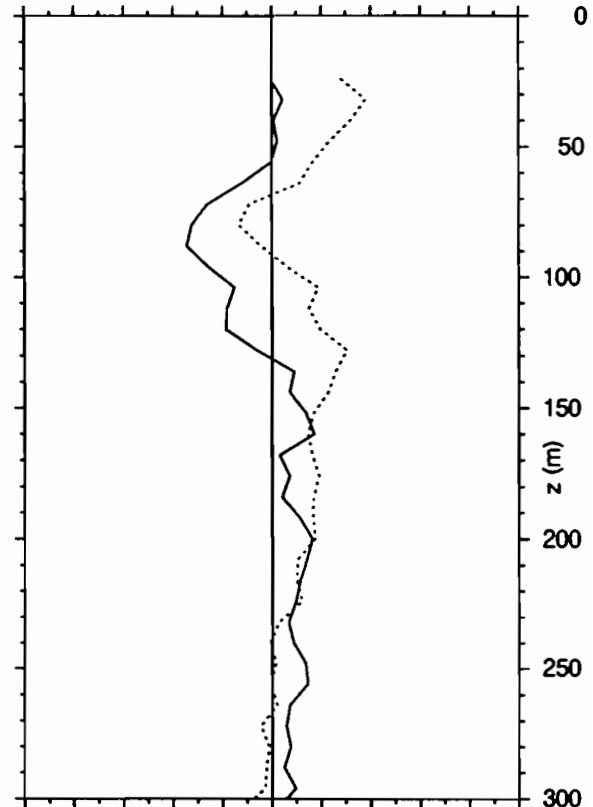
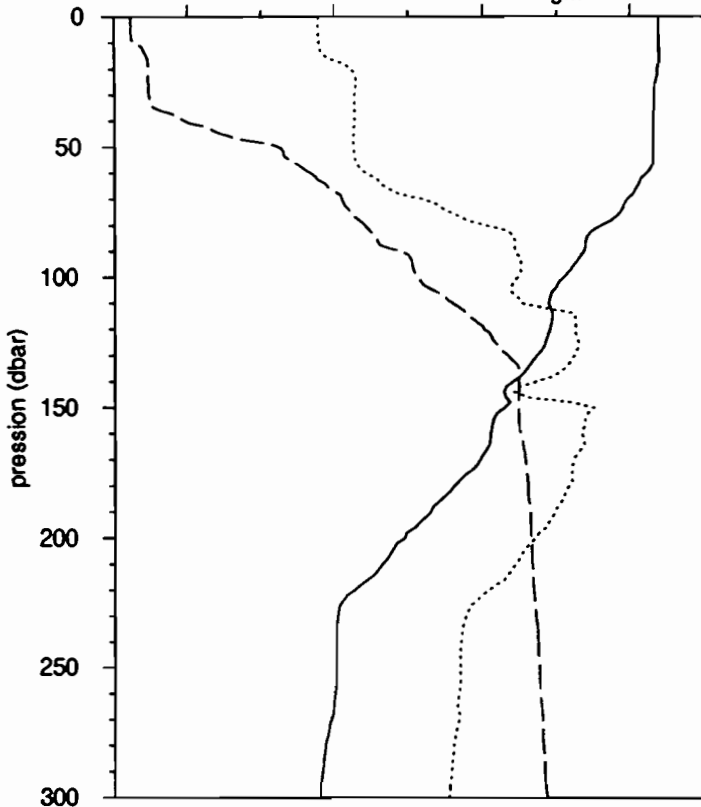
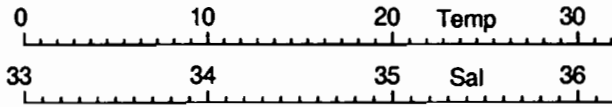
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.66	34.15	0.052	0.043	45.41
21	29.53	34.17	0.049	0.041	45.55
40	29.28	34.29	0.057	0.038	39.73
61	29.24	34.25	0.080	0.057	41.72
79	28.46	34.12	0.118	0.079	39.89
90	27.53	34.27	0.181	0.174	49.06
100	26.77	34.06	0.202	0.241	54.34
110	25.18	34.52	0.239	0.332	58.15
119	23.72	35.05	0.122	0.221	64.51
140	23.15	35.19	0.050	0.095	65.62
160	21.05	35.08	0.047	0.100	67.95
179	20.23	34.84	0.020	0.051	71.93
200	16.86	35.32			

# EQUALIS -station 174

30/11/92, 19h 1 TU

1°45 S 156°10 E

1/12/92, 5h 1 locale

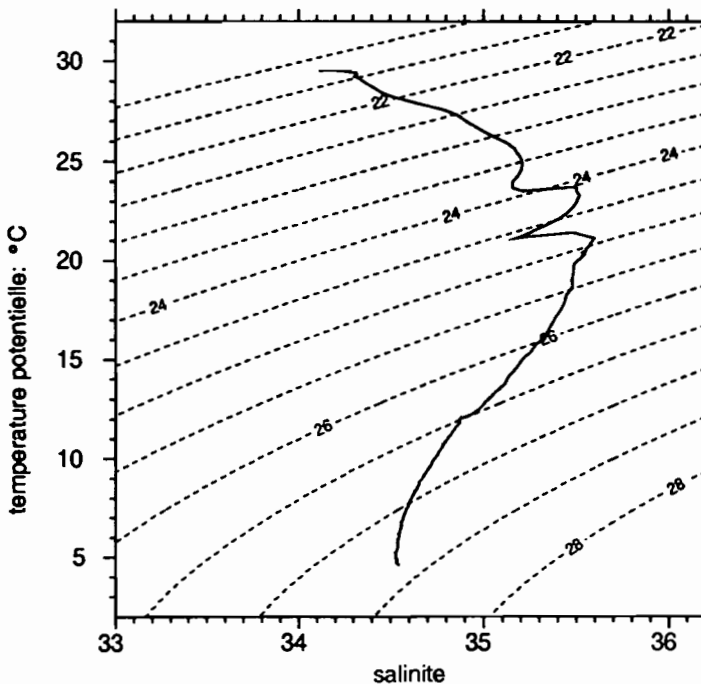


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.513	34.113
fin	998.0	4.647	34.544

	Z	U	V
debut	24.0	-0.4	28.1
fin	392.0	8.2	-25.7



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.523	34.118		
20.0	29.454	34.296		
30.0	29.284	34.313	3.2	35.5
40.0	29.268	34.311	0.8	31.9
50.0	29.227	34.306	1.7	21.7
75.0	27.444	34.829	-28.7	-10.8
100.0	24.379	35.188	-20.5	12.5
125.0	23.392	35.516	-10.9	26.4
150.0	21.181	35.600	12.2	18.4
200.0	15.815	35.283	16.4	17.4
250.0	12.115	34.880	13.8	1.1
300.0	11.200	34.821	5.9	-7.3
400.0	10.111	34.743		
500.0	8.988	34.666		
600.0	6.941	34.564		
700.0	6.231	34.547		
800.0	5.807	34.539		
900.0	5.076	34.528		

# EQUALIS - station174

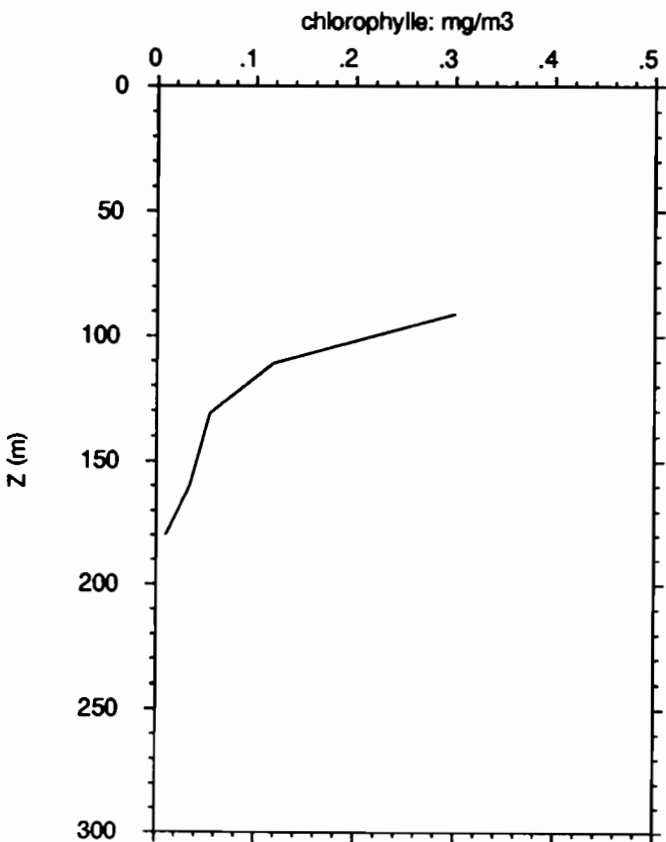
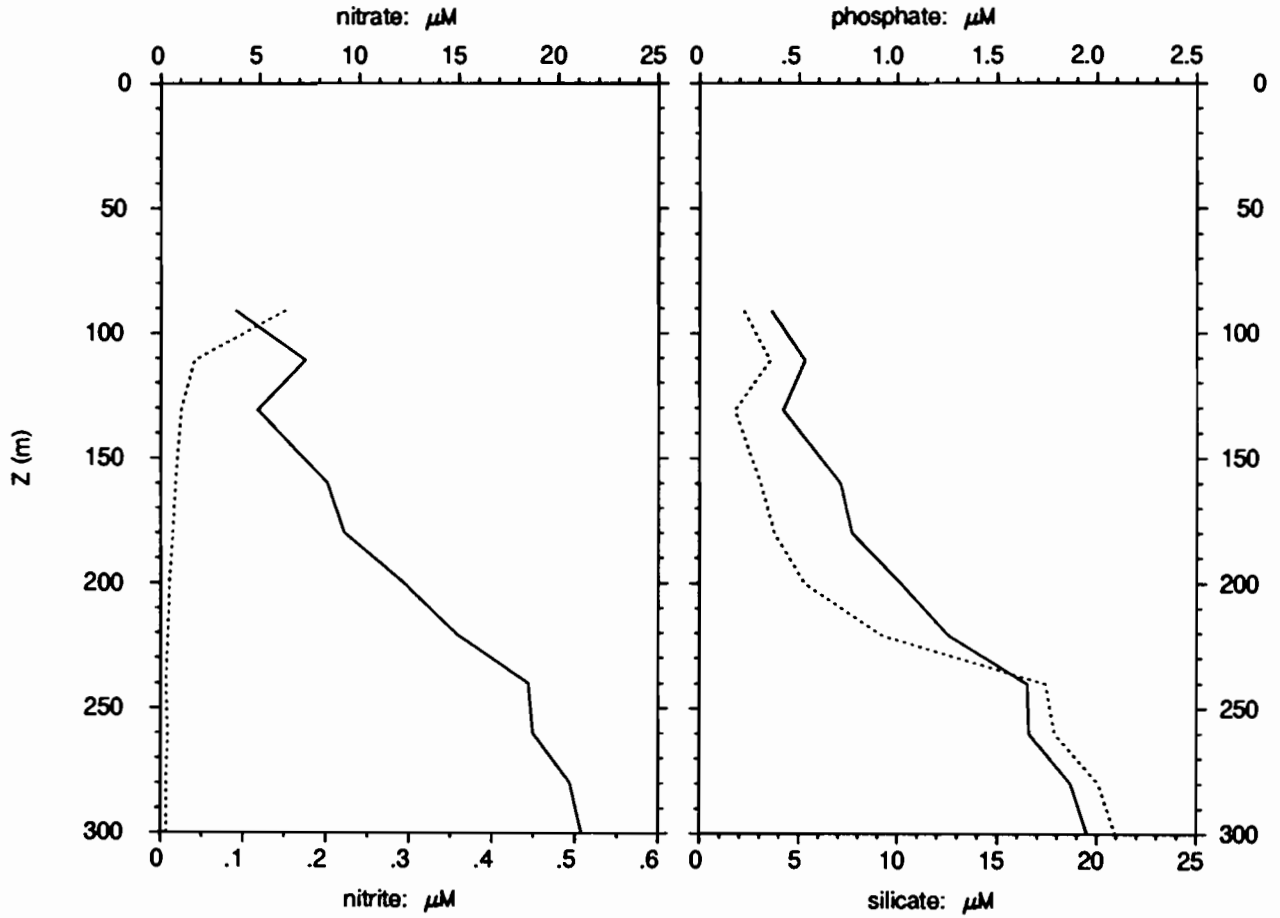
1°45 S 156°10 E

30/11/92, 19h 1 TU

1/12/92, 5h 1 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
91	3.79	0.151	0.36	2.2
111	7.31	0.041	0.53	3.5
131	4.92	0.025	0.42	1.8
160	8.40	0.018	0.71	3.1
180	9.26	0.015	0.77	3.8
200	12.24	0.011	1.02	5.3
221	14.93	0.009	1.26	9.2
240	18.50	0.007	1.65	17.4
260	18.73	0.009	1.66	17.9
280	20.59	0.007	1.87	20.1
302	21.21	0.007	1.96	21.0
1001	26.91	0.004	2.94	62.6

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
91	25.55	34.98	0.300	0.476	61.31
111	23.87	35.11	0.118	0.294	71.28
131	23.65	35.47	0.054	0.092	62.79
160	21.21	35.00	0.034	0.058	62.68
180	19.26	35.29	0.010	0.048	82.98
200	16.24	34.33			
221	13.65	34.39			
240	12.13	34.80			
260	12.06	34.56			
280	11.52	34.68			
302	11.19	34.81			
1001	4.65	34.54			

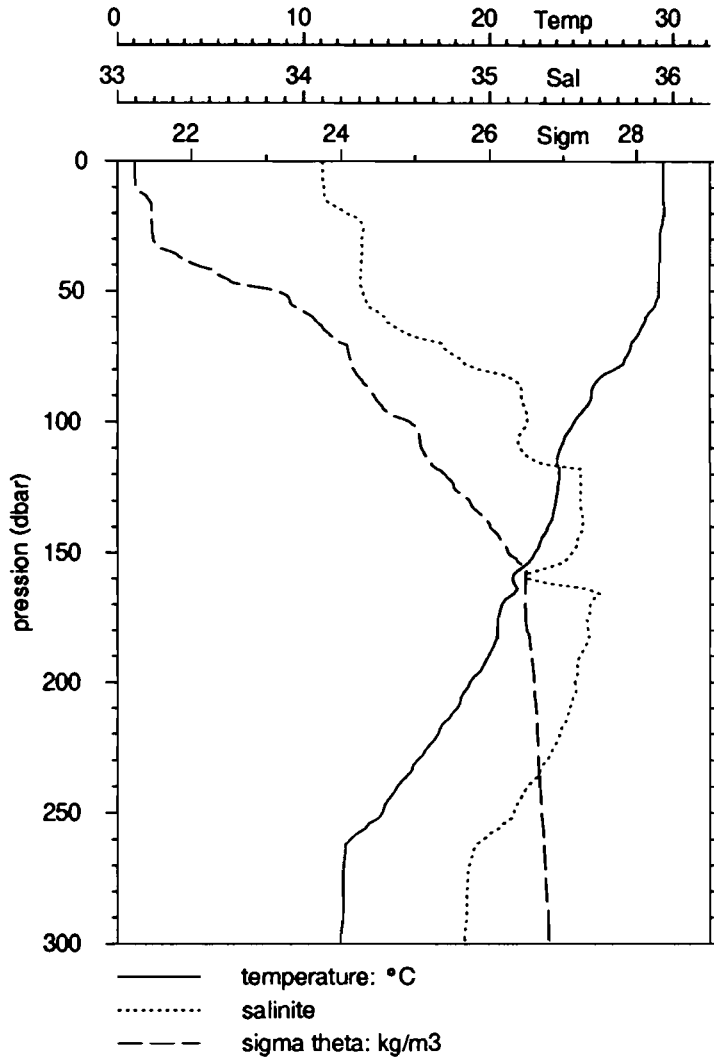


# EQUALIS -station 175

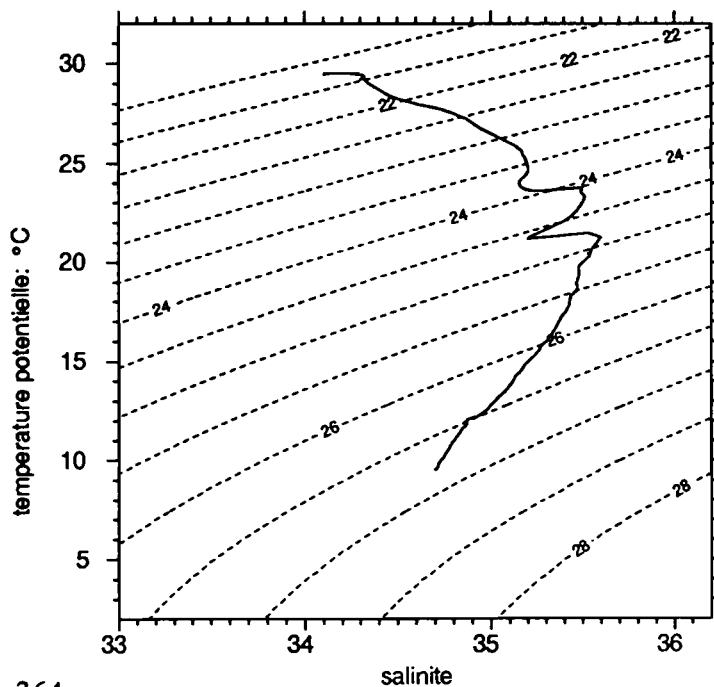
30/11/92, 20h11 TU

1°45 S 156°10 E

1/12/92, 6h11 locale



	P	T	S
debut	6.0	29.454	34.100
fin	498.0	9.561	34.700



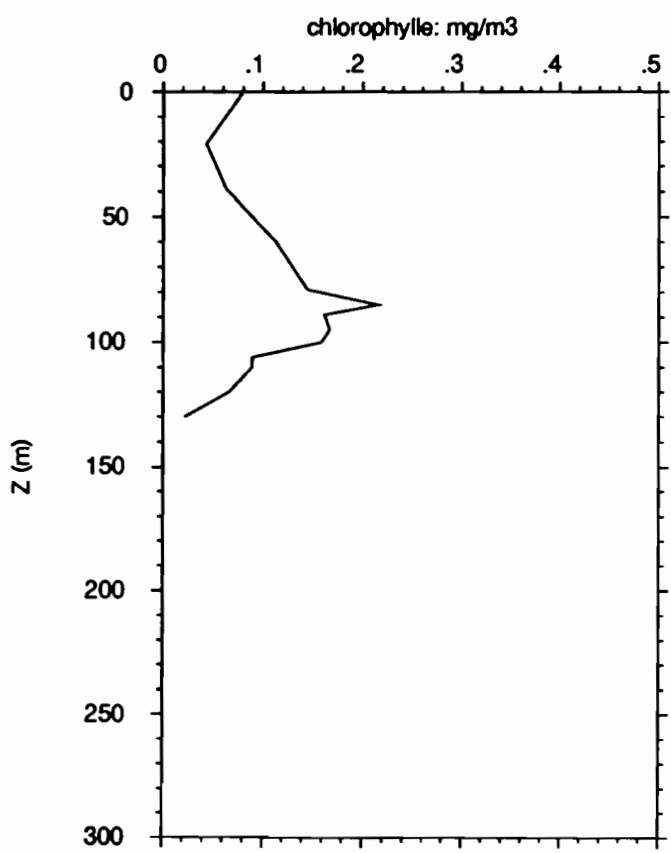
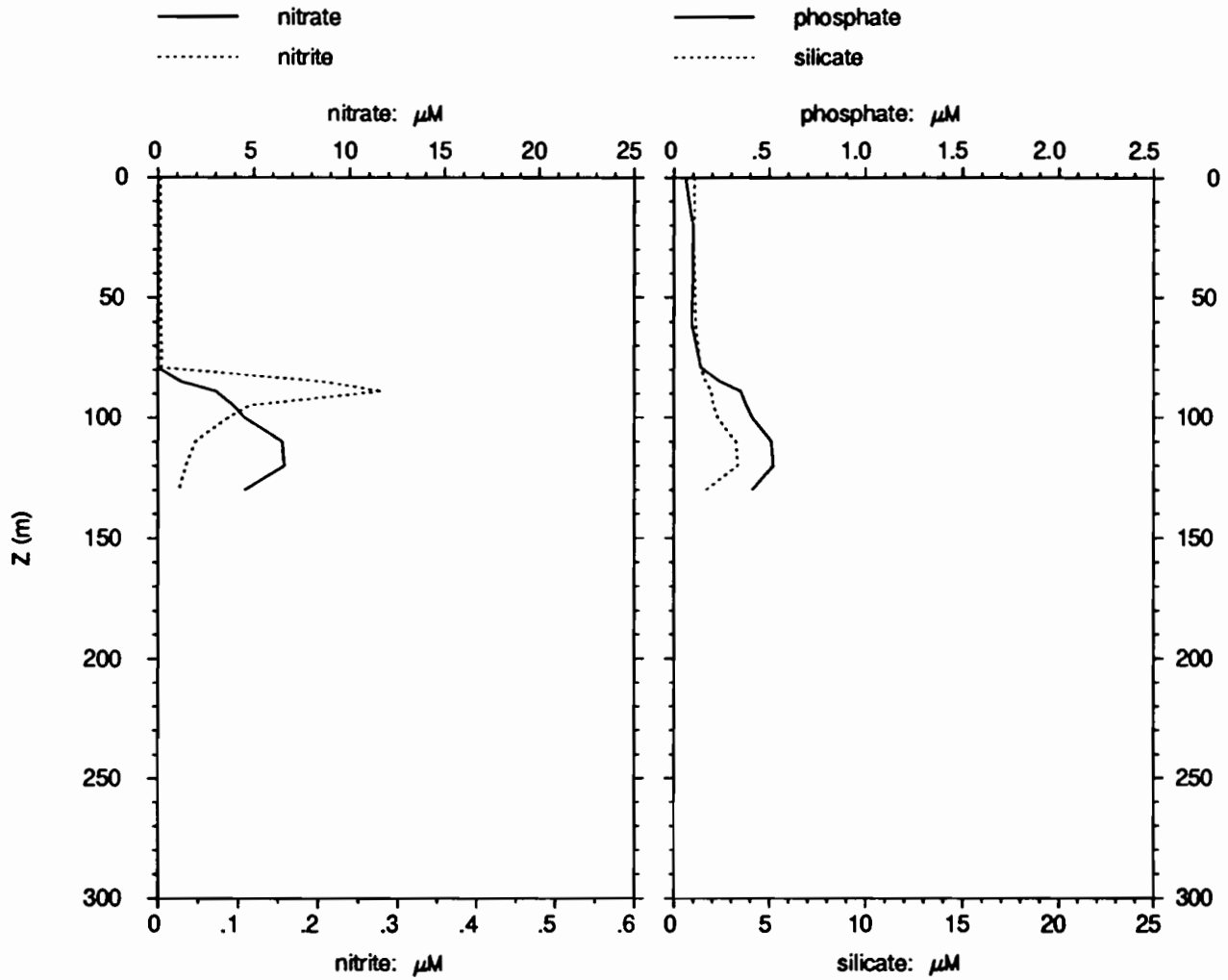
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.468	34.107		
20.0	29.519	34.229		
30.0	29.279	34.313		
40.0	29.260	34.308		
50.0	29.225	34.315		
75.0	27.458	34.819		
100.0	24.610	35.202		
125.0	23.711	35.497		
150.0	22.459	35.450		
200.0	18.937	35.466		
250.0	14.240	35.130		
300.0	11.961	34.867		
400.0	10.632	34.775		

# EQUALIS - station175

1°45 S 156°10 E

30/11/92, 20h11 TU

1/12/92, 6h11 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.003	0.06	1.1
21	0.000	0.003	0.10	1.1
39	0.000	0.003	0.10	1.1
60	0.000	0.004	0.09	1.1
79	0.002	0.005	0.14	1.4
85	1.210	0.206	0.24	1.6
89	3.01	0.280	0.35	2.0
95	3.91	0.115	0.38	2.1
100	4.51	0.088	0.41	2.3
106	5.70	0.063	0.47	2.8
110	6.49	0.047	0.51	3.3
120	6.59	0.035	0.52	3.3
130	4.52	0.026	0.41	1.7

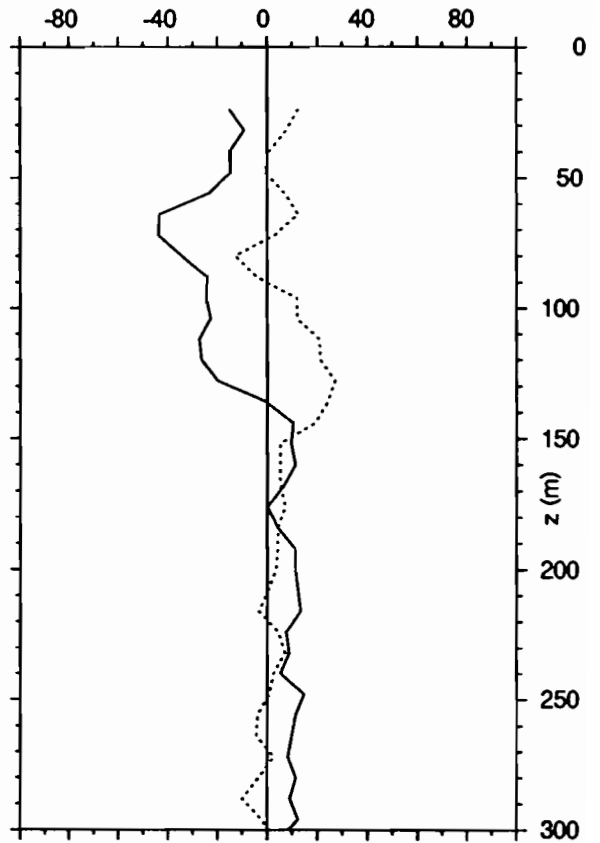
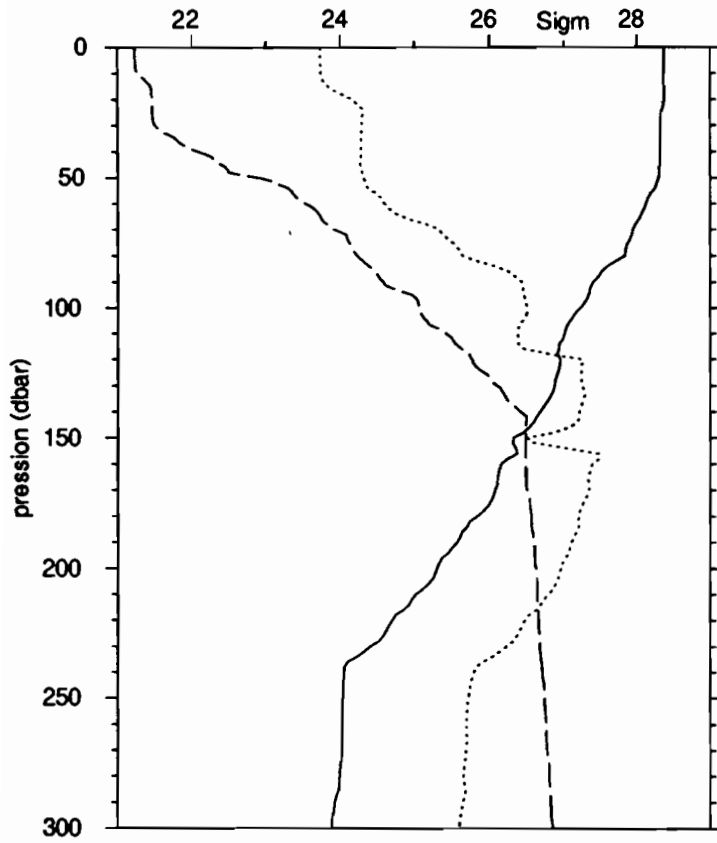
Z m	T $^{\circ}\text{C}$	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.56	34.13	0.080	0.035	30.52
21	29.40	34.26	0.043	0.083	65.69
39	29.25	34.18	0.063	0.080	56.22
60	28.54	34.21	0.113	0.113	49.99
79	27.36	34.60	0.145	0.302	67.57
85	26.30	34.80	0.216	0.500	69.81
89	25.64	34.97	0.162	0.554	77.40
95	25.42	34.98	0.167	0.404	70.76
100	25.03	34.99	0.159	0.498	75.80
106	24.52	35.00	0.089	0.420	82.52
110	24.10	35.00	0.089	0.440	83.20
120	23.66	35.44	0.066	0.222	76.98
130	23.70	35.49	0.022	0.149	86.87

# EQUALIS -station 177

1°45 S 156°10 E

30/11/92, 22h 2 TU

1/12/92, 8h 2 locale

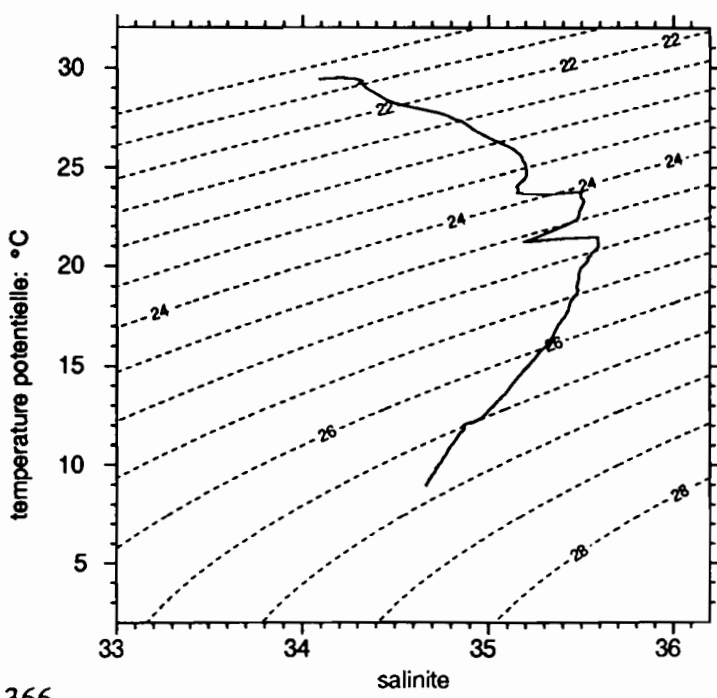


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.455	34.093
fin	504.0	8.986	34.666

	Z	U	V
debut	24.0	-15.1	12.5
fin	408.0	11.1	6.5



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.439	34.095		
20.0	29.489	34.265		
30.0	29.275	34.316	-10.6	8.9
40.0	29.252	34.312	-15.0	0.9
50.0	29.185	34.328	-16.9	1.2
75.0	27.514	34.805	-40.3	-2.9
100.0	24.915	35.203	-23.6	11.9
125.0	23.682	35.497	-22.4	24.9
150.0	21.270	35.203	9.9	8.7
200.0	17.203	35.384	11.4	3.6
250.0	12.131	34.888	13.9	-0.2
300.0	11.540	34.841	8.5	0.3
400.0	10.363	34.757	12.4	-6.1
500.0	9.108	34.673		

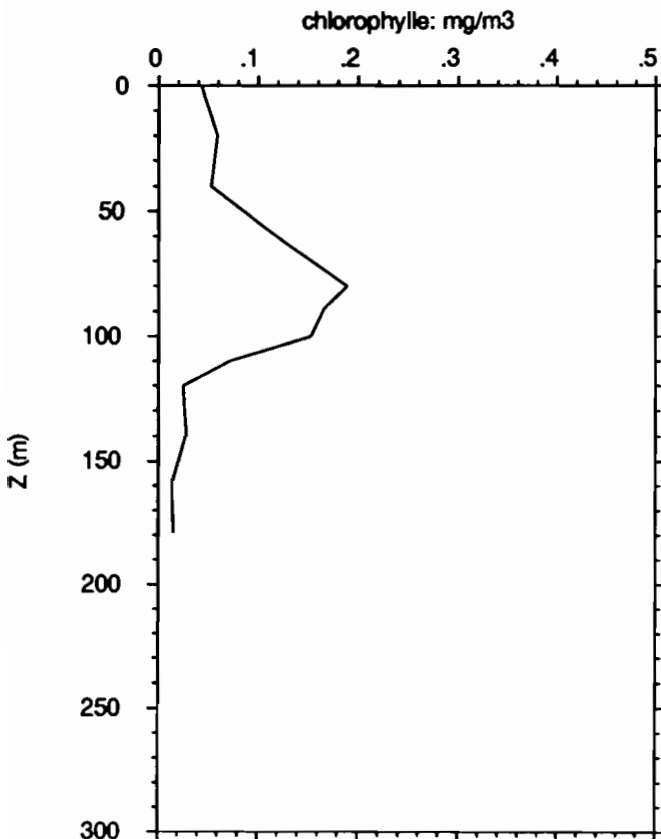
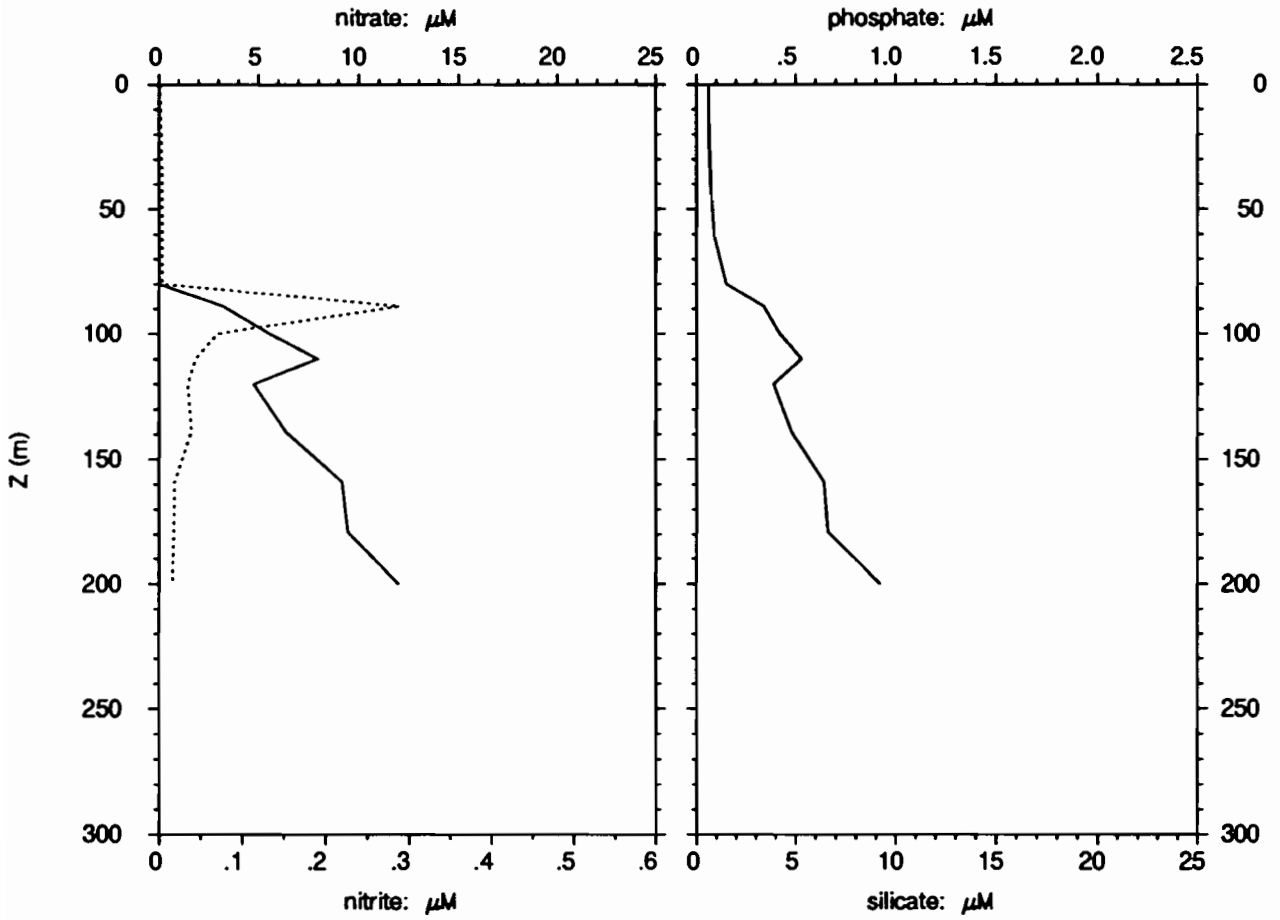
# EQUALIS - station177

1°45 S 156°10 E

30/11/92, 22h 2 TU

1/12/92, 8h 2 locale

— nitrate                      — phosphate  
 ..... nitrite                      ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.000	0.002	0.06	
20	0.000	0.003	0.06	
40	0.000	0.004	0.07	
61	0.000	0.004	0.09	
80	0.000	0.004	0.15	
89	3.24	0.288	0.34	
100	5.54	0.071	0.42	
110	7.95	0.044	0.53	
120	4.76	0.035	0.39	
139	6.36	0.039	0.48	
159	9.16	0.019	0.64	
179	9.45	0.018	0.66	
200	11.95	0.016	0.92	

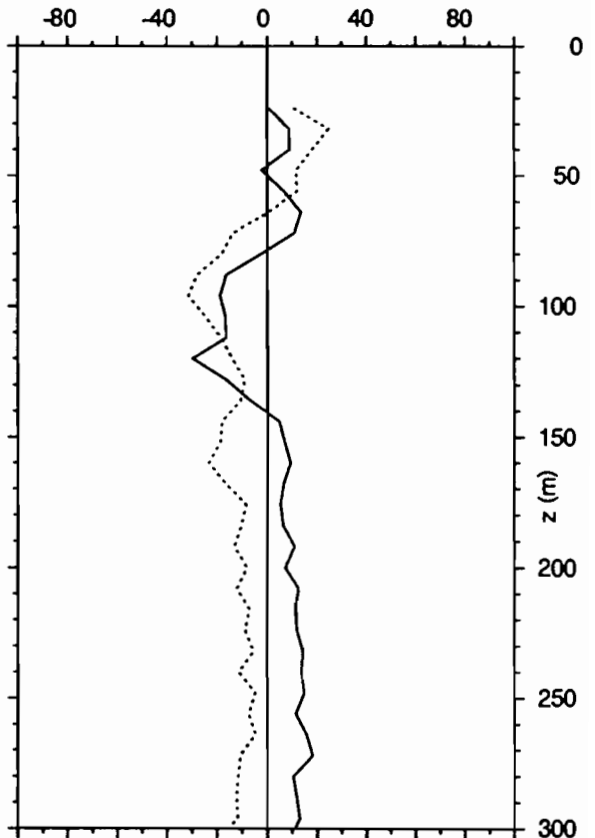
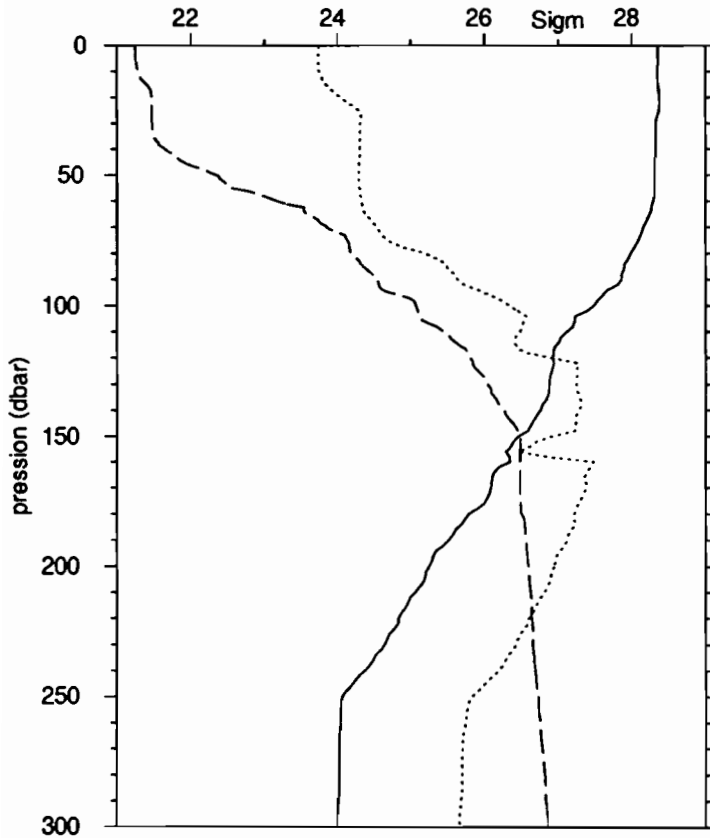
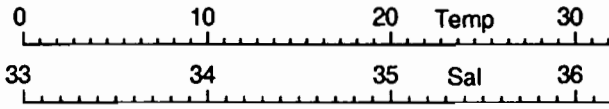
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.59	34.12	0.043	0.048	52.69
20	29.50	34.17	0.059	0.035	36.96
40	29.25	34.19	0.053	0.073	58.23
61	28.60	34.41	0.122	0.090	42.56
80	27.39	34.48	0.189	0.182	49.12
89	25.56	34.87	0.166	0.672	80.16
100	24.67	34.73	0.153	0.363	70.32
110	23.74	35.26	0.072	0.297	80.41
120	23.66	35.06	0.025	0.112	81.93
139	22.89	34.54	0.028	0.107	79.35
159	20.74	35.24	0.014	0.068	83.14
179	19.88	35.10	0.015	0.054	78.08
200	17.29	35.36			

# EQUALIS -station 178

1/12/92, 1h 0 TU

1°45 S 156°10 E

1/12/92, 11h 0 locale

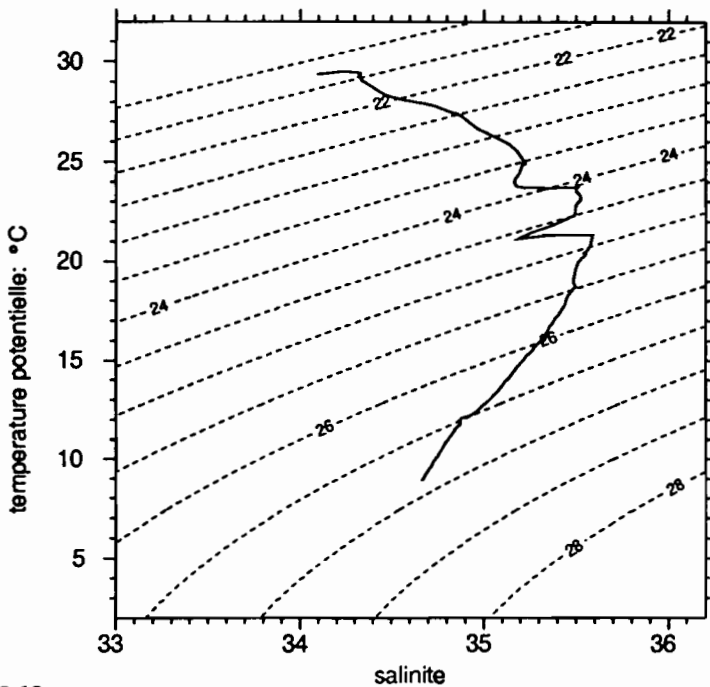


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.415	34.097
fin	504.0	8.954	34.663

	Z	U	V
debut	24.0	0.8	10.7
fin	312.0	3.6	0.2



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.385	34.100		
20.0	29.501	34.217		
30.0	29.302	34.324	6.8	21.2
40.0	29.267	34.322	9.0	18.1
50.0	29.246	34.317	0.1	11.7
75.0	28.350	34.476	5.8	-15.2
100.0	25.917	35.136	-17.8	-28.0
125.0	23.654	35.502	-21.5	-10.8
150.0	21.831	35.366	6.5	-18.5
200.0	17.006	35.378	7.2	-8.1
250.0	12.265	34.931	13.9	-5.5
300.0	11.966	34.870	11.1	-15.6
400.0	10.493	34.770		
500.0	8.968	34.665		

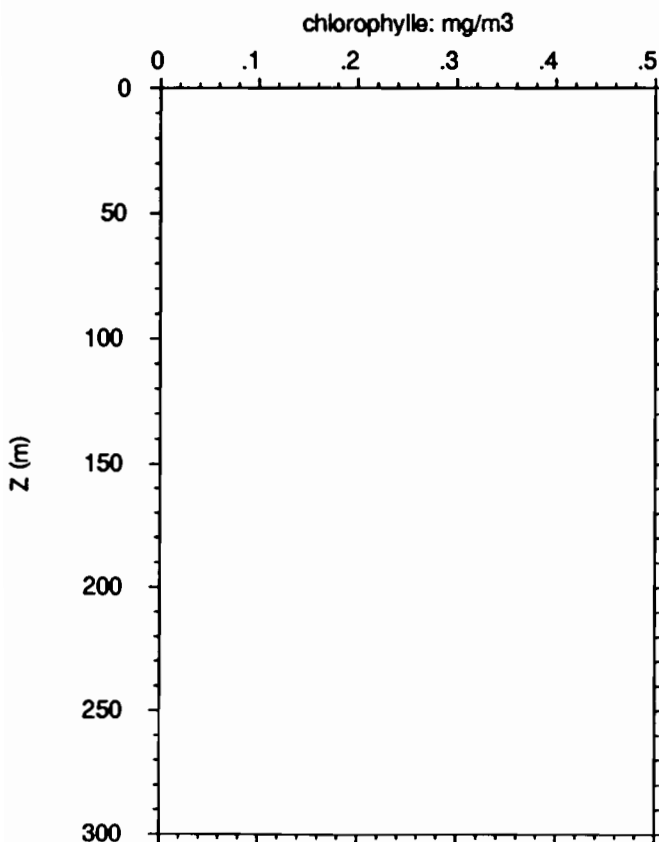
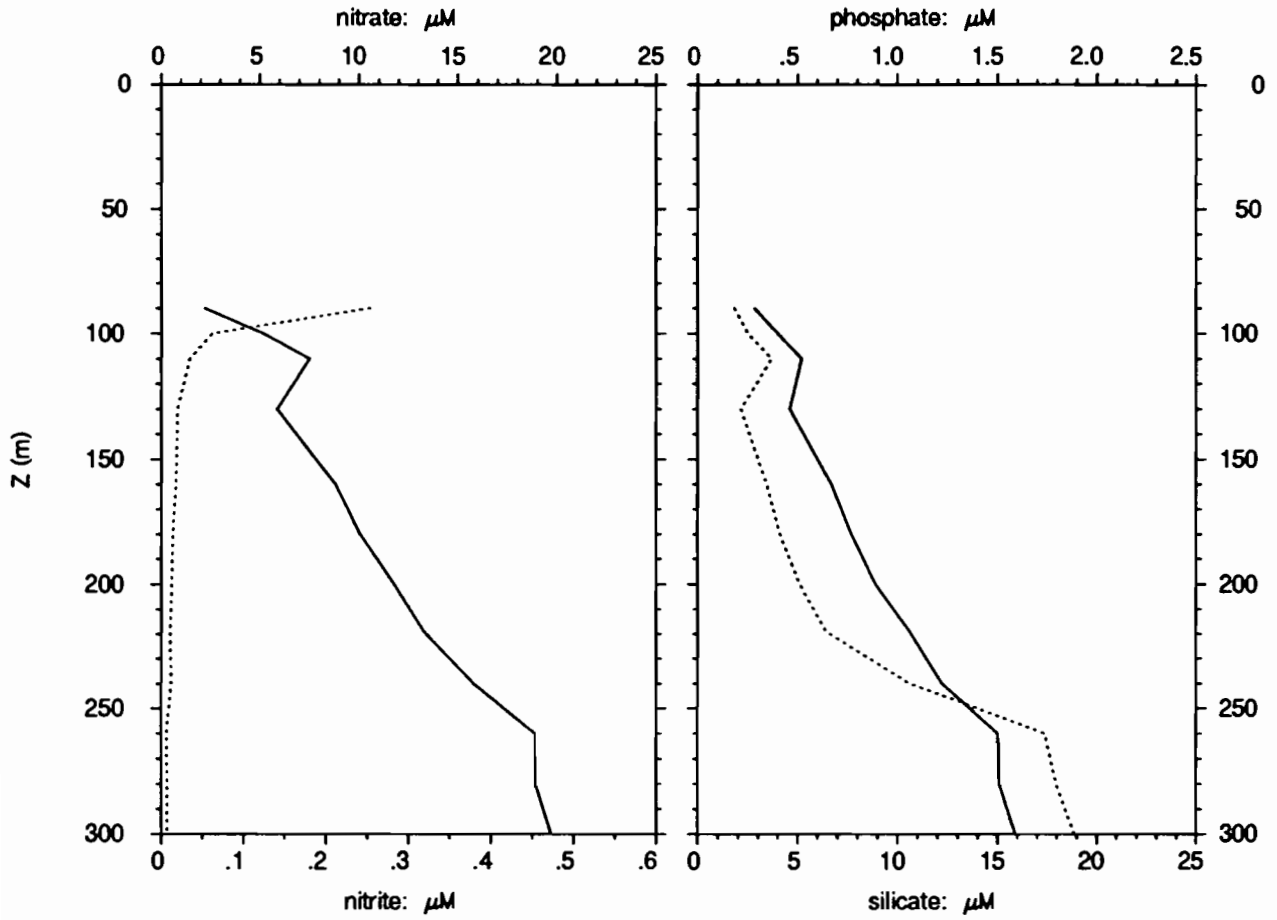
# EQUALIS - station178

1°45 S 156°10 E

1/12/92, 1h 0 TU

1/12/92, 11h 0 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
90	2.20	0.254	0.28	1.8
100	5.17	0.062	0.40	2.5
110	7.51	0.035	0.52	3.7
130	5.87	0.020	0.46	2.1
160	8.83	0.018	0.67	3.4
180	10.07	0.014	0.77	4.1
200	11.78	0.013	0.89	5.1
219	13.29	0.011	1.06	6.4
240	15.78	0.012	1.22	10.6
260	18.87	0.006	1.50	17.4
280	18.91	0.007	1.51	18.0
300	19.70	0.007	1.59	18.9

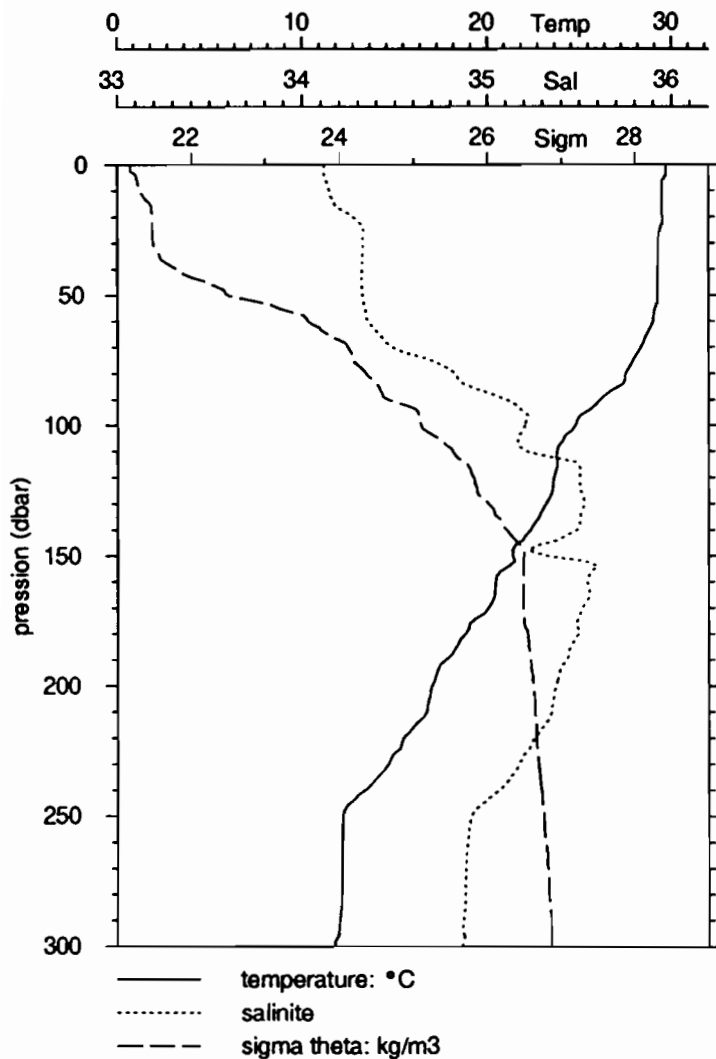
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
90	26.18	34.51			
100	24.72	34.85			
110	23.75	35.06			
130	22.97	35.48			
160	20.44	35.38			
180	18.91	34.69			
200	16.92	34.77			
219	15.29	33.81			
240	13.25	33.99			
260	12.15	34.83			
280	12.12	34.86			
300	11.97	34.87			

# EQUALIS -station 179

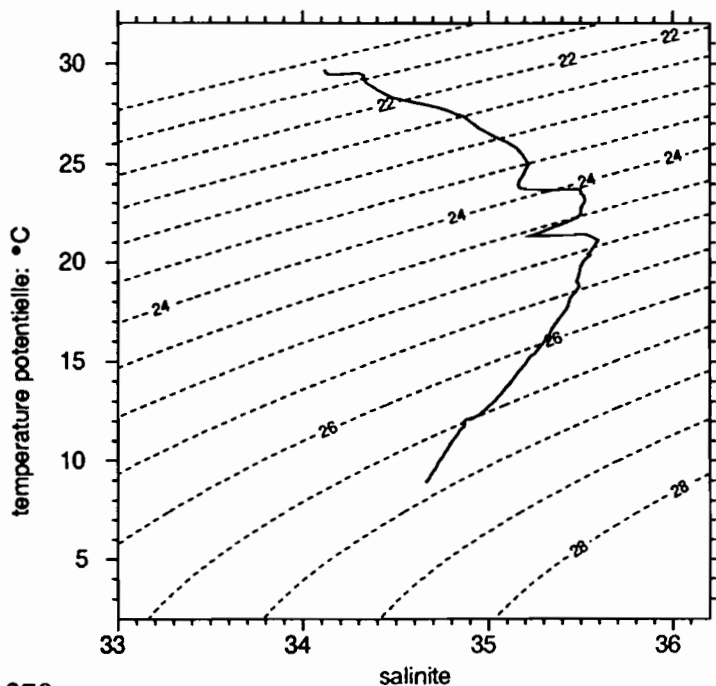
1/12/92, 1h43 TU

1°45 S 156°10 E

1/12/92, 11h43 locale



	P	T	S
debut	4.0	29.678	34.117
fin	502.0	8.954	34.660



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.462	34.146		
20.0	29.509	34.272		
30.0	29.290	34.325		
40.0	29.259	34.320		
50.0	29.229	34.323		
75.0	27.902	34.690		
100.0	24.748	35.202		
125.0	23.500	35.504		
150.0	21.364	35.321		
200.0	16.959	35.368		
250.0	12.183	34.910		
300.0	11.708	34.860		
400.0	10.242	34.753		
500.0	8.958	34.660		

# EQUALIS - station179

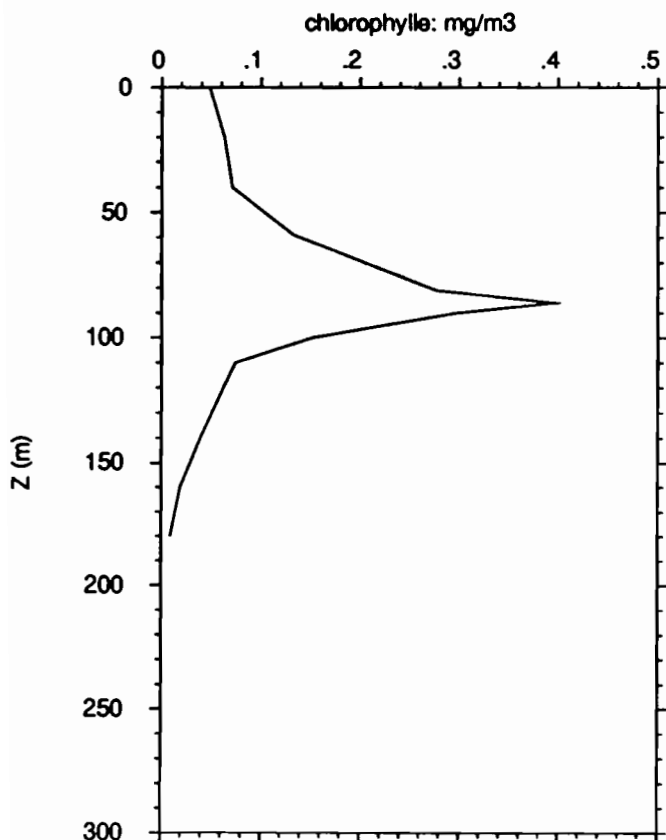
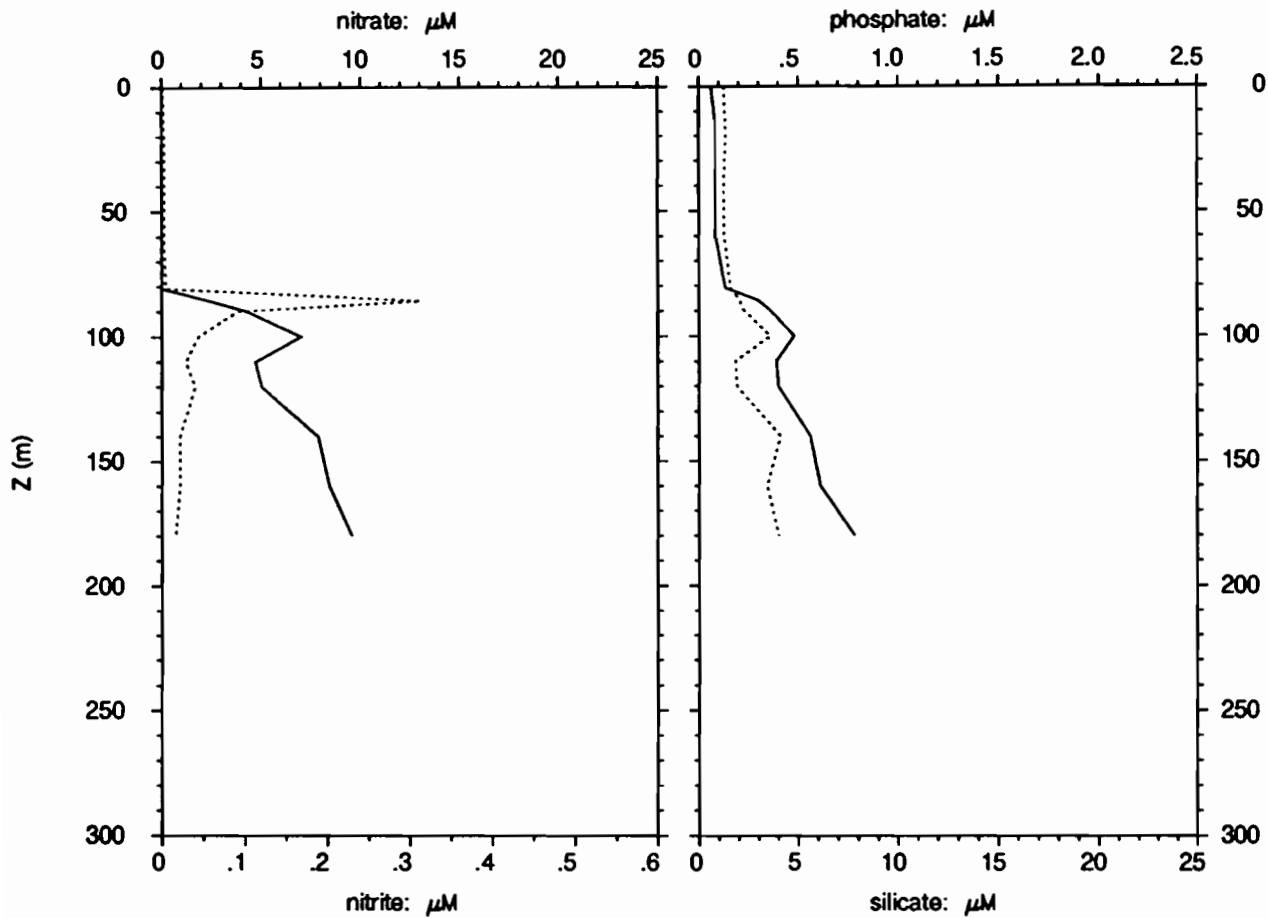
1°45 S 156°10 E

1/12/92, 1h43 TU

1/12/92, 11h43 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.001	0.002	0.06	1.3
20	0.000	0.003	0.09	1.3
40	0.000	0.003	0.09	1.2
59	0.000	0.003	0.08	1.3
81	0.001	0.005	0.13	1.6
86	2.46	0.313	0.30	2.0
90	4.27	0.091	0.36	2.3
100	7.03	0.044	0.48	3.6
110	4.71	0.029	0.39	1.8
120	5.02	0.040	0.40	1.9
140	7.87	0.022	0.56	4.1
160	8.45	0.022	0.61	3.4
180	9.56	0.017	0.78	4.0

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.90	34.14	0.048	0.016	25.59
20	29.48	34.20	0.063	0.039	38.60
40	29.25	34.31	0.071	0.078	52.26
59	28.76	34.33	0.133	0.077	36.68
81	27.02	34.61	0.277	0.230	45.38
86	25.91	35.10	0.397	0.404	50.43
90	24.90	34.82	0.297	0.398	57.26
100	23.85	35.15	0.152	0.228	60.00
110	23.60	35.32	0.074	0.122	62.16
120	23.35	34.38	0.062	0.114	64.87
140	21.76	34.86	0.039	0.099	71.99
160	20.41	35.03	0.019	0.051	72.83
180	18.39	35.42	0.009	0.029	75.18

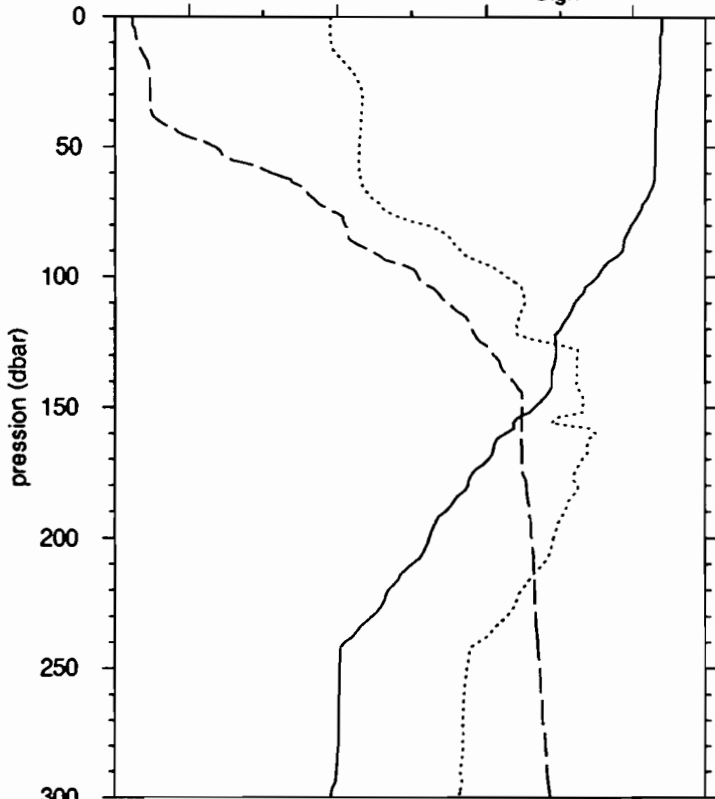
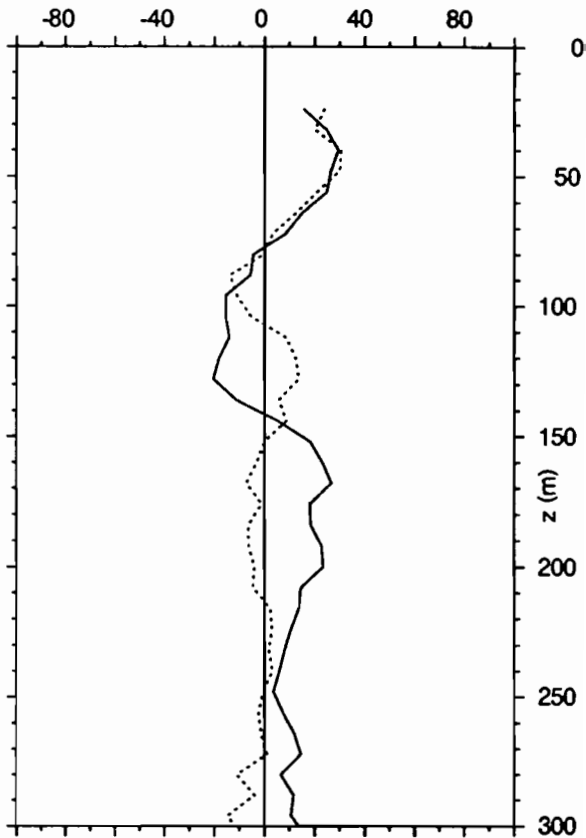
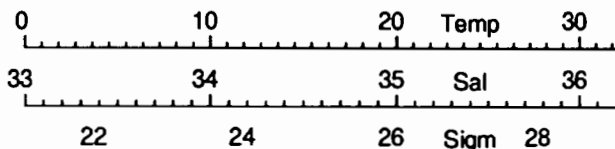


# EQUALIS -station 180

1/12/92, 4h 0 TU

1°45 S 156°10 E

1/12/92, 14h 0 locale

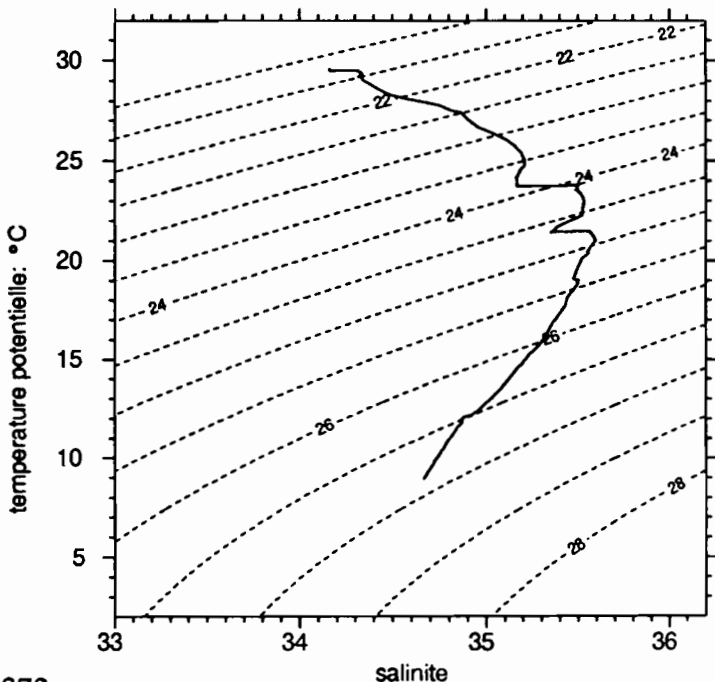


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.601	34.164
fin	500.0	8.983	34.664

	Z	U	V
debut	24.0	15.7	24.0
fin	416.0	7.0	-11.9



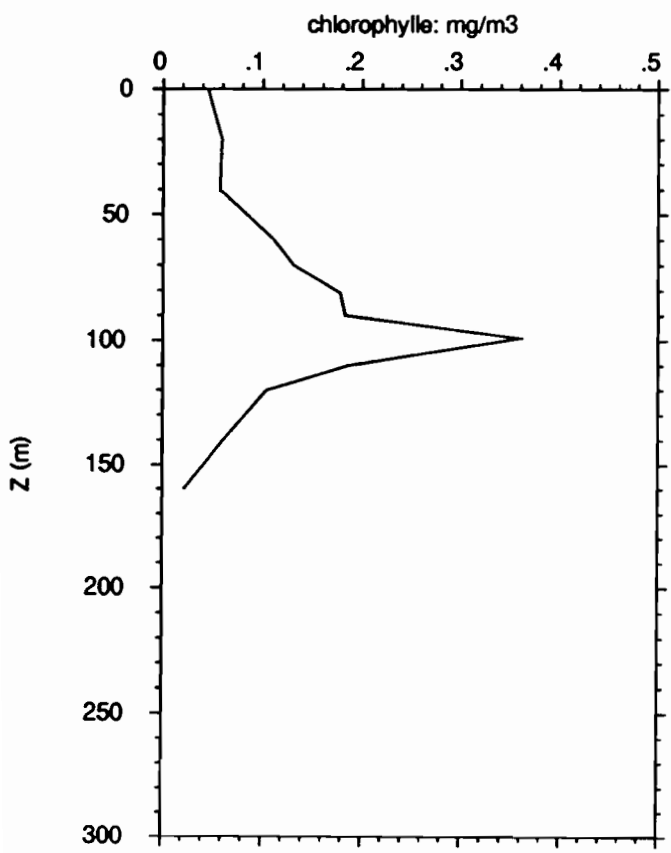
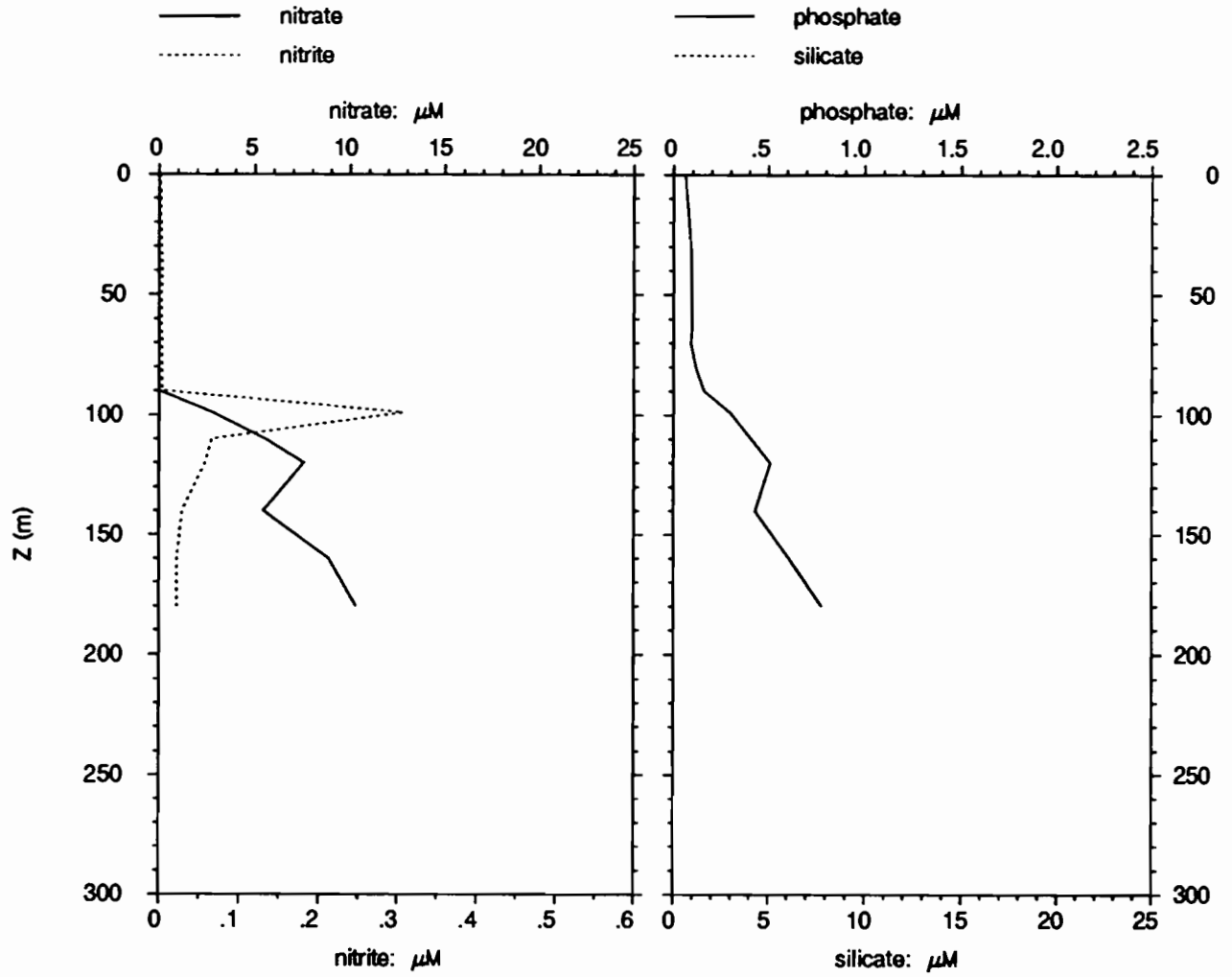
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.486	34.168		
20.0	29.537	34.271		
30.0	29.368	34.335	22.5	21.1
40.0	29.285	34.330	29.4	30.6
50.0	29.249	34.320	26.1	27.7
75.0	28.367	34.474	3.6	1.9
100.0	26.052	35.112	-15.6	-8.1
125.0	23.782	35.326	-19.6	13.3
150.0	22.621	35.523	15.1	13.3
200.0	16.952	35.366	23.4	-4.0
250.0	12.170	34.898	4.7	-0.9
300.0	11.670	34.854	13.6	-11.8
400.0	10.426	34.762	7.7	-10.9
500.0	8.983	34.664		

# EQUALIS - station180

1°45 S 156°10 E

1/12/92, 4h 0 TU

1/12/92, 14h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.002	0.06	
20	0.001	0.003	0.08	
40	0.000	0.004	0.10	
60	0.002	0.003	0.10	
70	0.001	0.004	0.09	
81	0.001	0.004	0.12	
90	0.001	0.004	0.16	
99	2.78	0.307	0.30	
110	5.53	0.066	0.41	
120	7.57	0.058	0.51	
140	5.44	0.029	0.43	
160	8.86	0.023	0.61	
180	10.31	0.023	0.78	

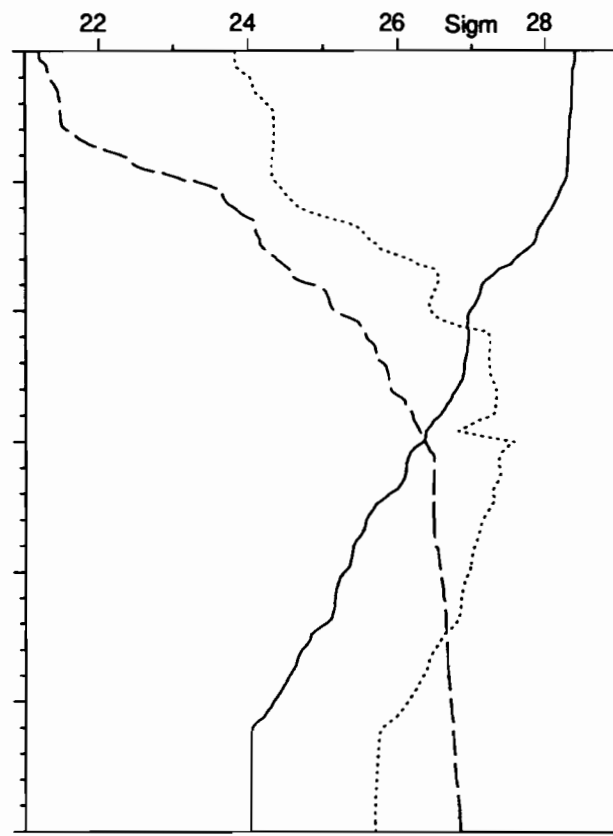
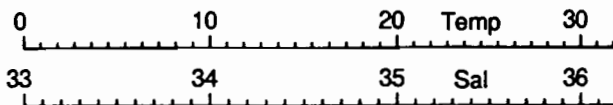
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.16	34.16	0.045	0.028	38.08
20	29.52	34.20	0.059	0.042	41.73
40	29.31	34.32	0.057	0.055	48.86
60	29.18	34.02	0.111	0.047	29.68
70	28.38	34.34	0.131	0.095	42.14
81	27.80	34.45	0.178	0.173	49.33
90	27.20	34.41	0.183	0.270	59.50
99	25.96	34.64	0.359	0.540	60.07
110	24.75	34.87	0.186	0.378	67.07
120	23.82	35.17	0.104	0.300	74.29
140	23.52	34.38	0.061	0.146	70.51
160	20.90	34.80	0.022	0.065	74.75
180	19.07	35.47			

# EQUALIS -station 181

1/12/92, 7h 2 TU

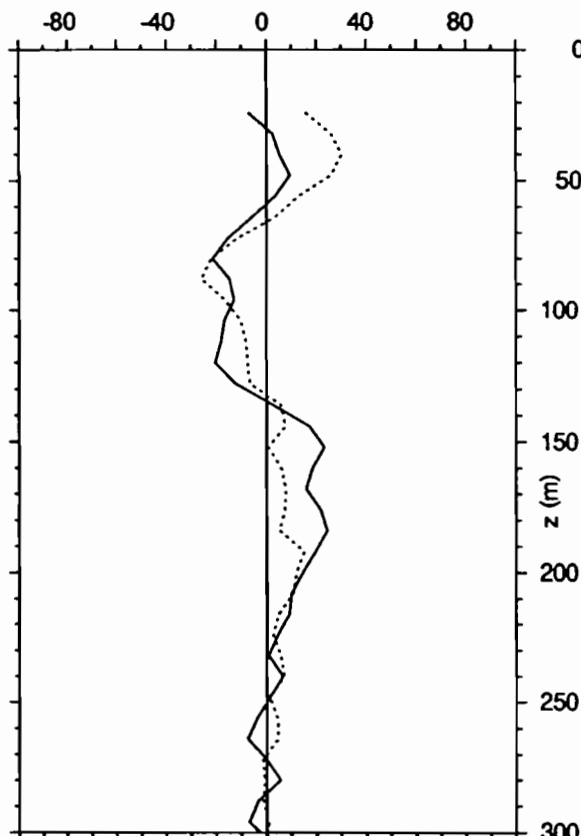
1°45 S 156°10 E

1/12/92, 17h 2 locale



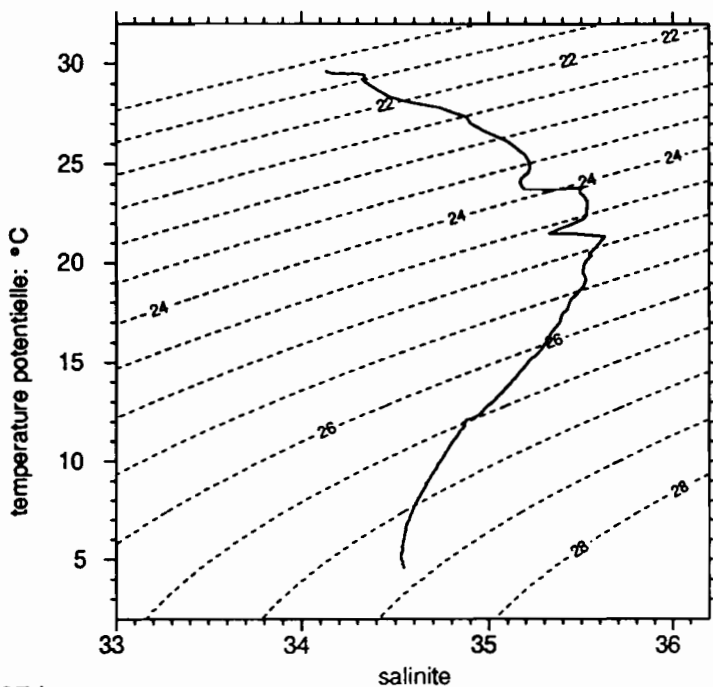
— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	4.0	29.652	34.131
fin	998.0	4.640	34.547



— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	Z	U	V
debut	24.0	-7.0	15.9
fin	368.0	-0.6	0.9



P	T	S	U	V
dbar	°C	S	cm/s	cm/s
10.0	29.529	34.211		
20.0	29.498	34.298		
30.0	29.333	34.337	0.1	23.4
40.0	29.263	34.329	5.3	30.2
50.0	29.087	34.344	7.9	22.6
75.0	27.207	34.892	-17.5	-15.4
100.0	23.904	35.179	-14.8	-13.3
125.0	23.512	35.503	-15.3	-7.0
150.0	21.383	35.628	21.5	2.5
200.0	17.072	35.385	14.4	11.9
250.0	13.339	35.051	0.2	2.0
300.0	12.118	34.876	-2.7	1.1
400.0	10.619	34.777		
500.0	9.257	34.687		
600.0	6.824	34.558		
700.0	6.227	34.547		
800.0	5.681	34.535		
900.0	4.958	34.540		

# EQUALIS - station181

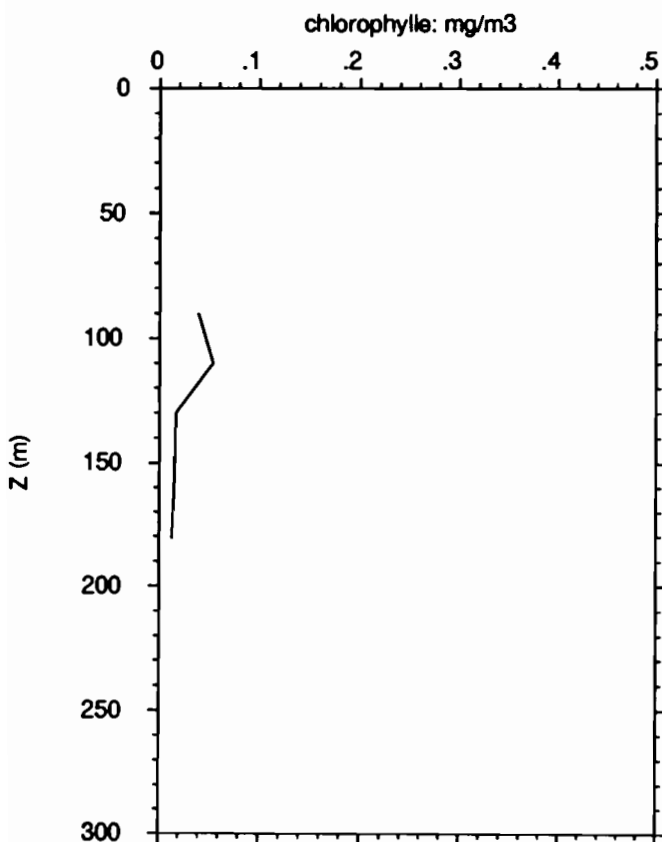
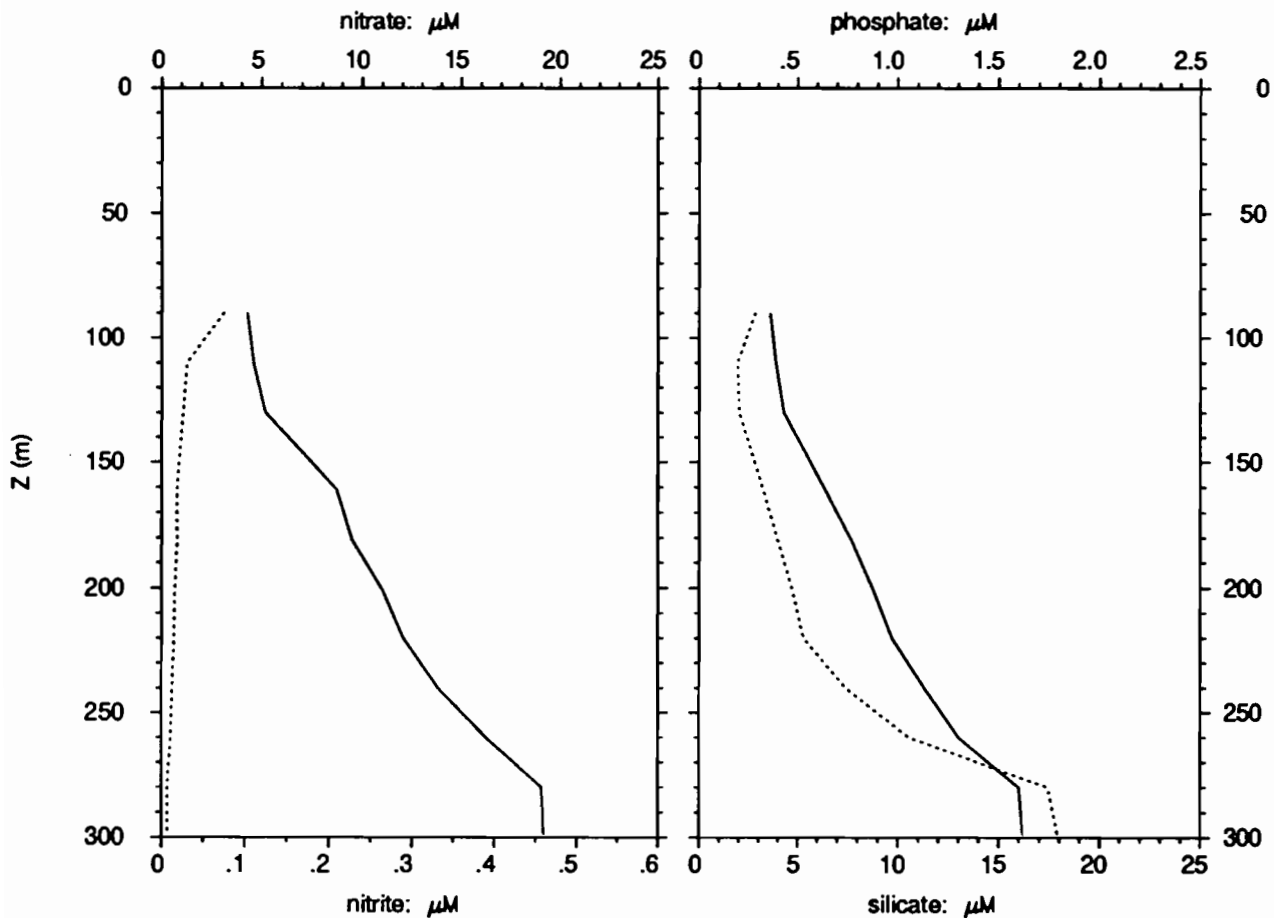
1°45 S 156°10 E

1/12/92, 7h 2 TU

1/12/92, 17h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	4.29	0.075	0.36	2.8
110	4.61	0.031	0.39	1.9
130	5.20	0.026	0.43	2.0
161	8.74	0.019	0.64	3.3
181	9.50	0.019	0.77	4.0
201	11.03	0.016	0.88	4.7
220	12.05	0.015	0.97	5.3
240	13.81	0.013	1.13	7.4
260	16.24	0.011	1.30	10.5
280	19.04	0.007	1.60	17.4
299	19.17	0.007	1.62	17.9
1000	28.82	0.003	2.88	62.5

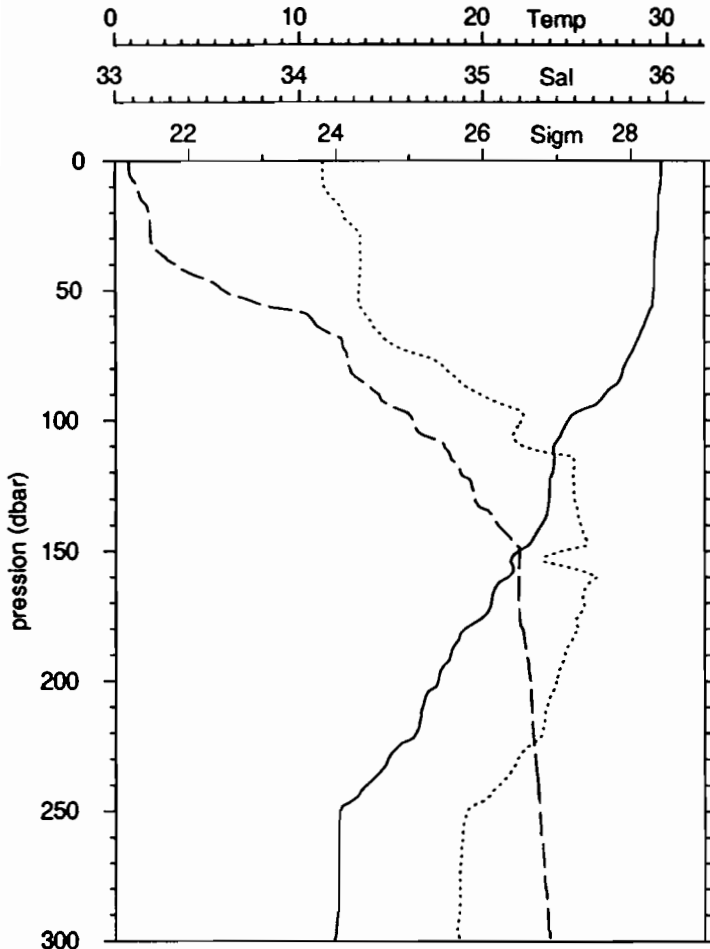
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
90	24.97	35.18	0.039	0.142	78.20
110	23.84	35.45	0.054	0.148	73.27
130	23.49	35.25	0.017	0.163	90.38
161	20.88	35.27	0.015	0.055	78.36
181	19.32	35.04	0.013	0.045	76.89
201	17.86	35.17			
220	16.78	34.81			
240	15.22	33.88			
260	13.35	34.31			
280	12.16	34.84			
299	12.00	34.87			
1000	4.64	34.54			

# EQUALIS -station 182

1°45 S 156°10 E

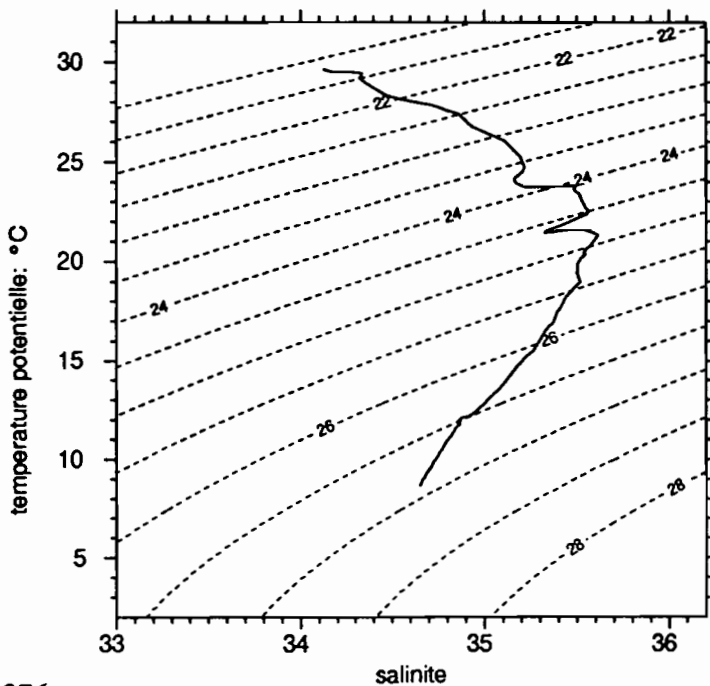
1/12/92, 8h 2 TU

1/12/92, 18h 2 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.653	34.125
fin	498.0	8.713	34.651



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.619	34.134		
20.0	29.528	34.238		
30.0	29.382	34.333		
40.0	29.299	34.334		
50.0	29.248	34.324		
75.0	27.944	34.667		
100.0	24.585	35.207		
125.0	23.572	35.488		
150.0	21.855	35.419		
200.0	17.551	35.394		
250.0	12.184	34.910		
300.0	11.831	34.871		
400.0	10.139	34.743		

# EQUALIS - station182

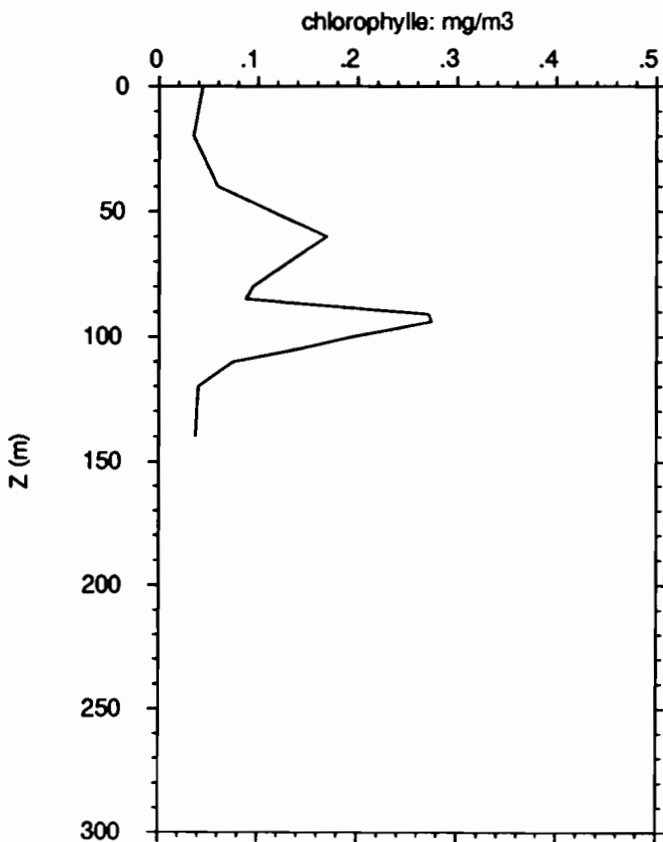
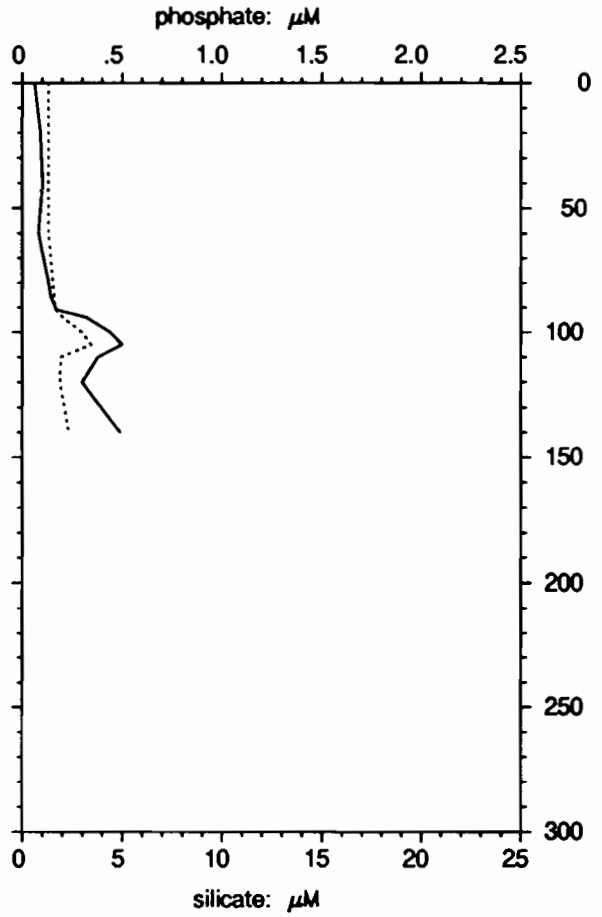
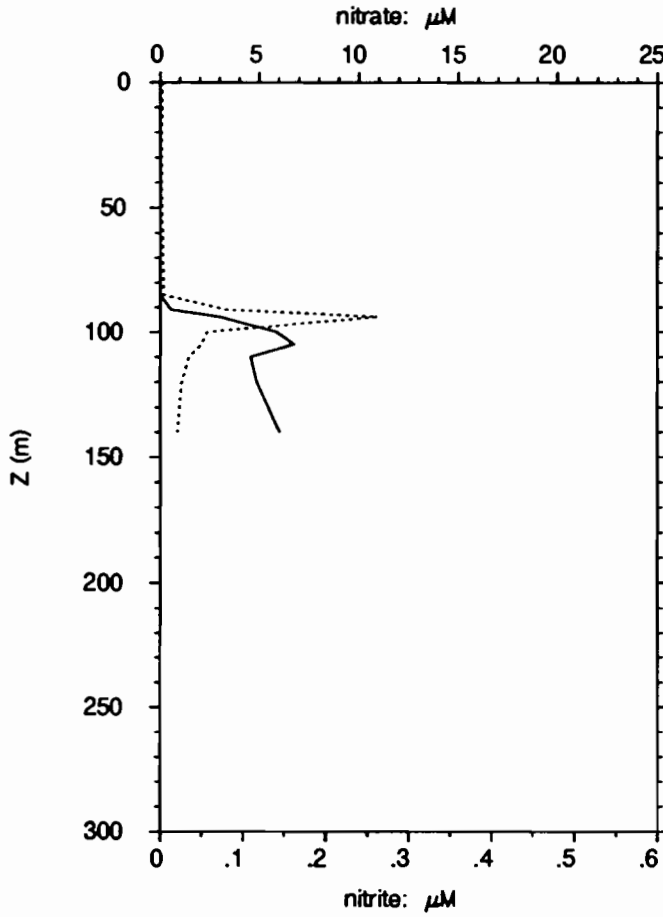
1°45 S 156°10 E

1/12/92, 8h 2 TU

1/12/92, 18h 2 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.000	0.003	0.06	1.3
20	0.000	0.002	0.09	1.3
40	0.000	0.002	0.10	1.3
60	0.001	0.003	0.08	1.3
80	0.001	0.004	0.13	1.5
85	0.001	0.004	0.14	1.6
91	0.539	0.080	0.17	1.6
94	3.03	0.262	0.32	2.0
100	5.88	0.057	0.44	3.0
105	6.75	0.050	0.50	3.5
110	4.56	0.035	0.38	1.9
120	4.87	0.026	0.30	1.9
140	6.04	0.021	0.49	2.3

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.79	34.15	0.044	0.032	42.24
20	29.51	34.23	0.035	0.053	59.78
40	29.29	34.23	0.059	0.036	38.13
60	28.75	33.99	0.169	0.190	52.91
80	27.56	34.67	0.095	0.343	78.24
85	27.33	34.34	0.088	0.397	81.82
91	26.50	34.64	0.271	0.569	67.76
94	25.16	34.73	0.274	0.512	65.18
100	24.25	35.01	0.194	0.407	67.69
105	23.80	35.32	0.140	0.364	72.25
110	23.80	35.27	0.075	0.096	56.25
120	23.56	35.36	0.040	0.119	74.89
140	22.71	35.52	0.037	0.055	60.03

# EQUALIS -station 183

1/12/92, 10h 2 TU

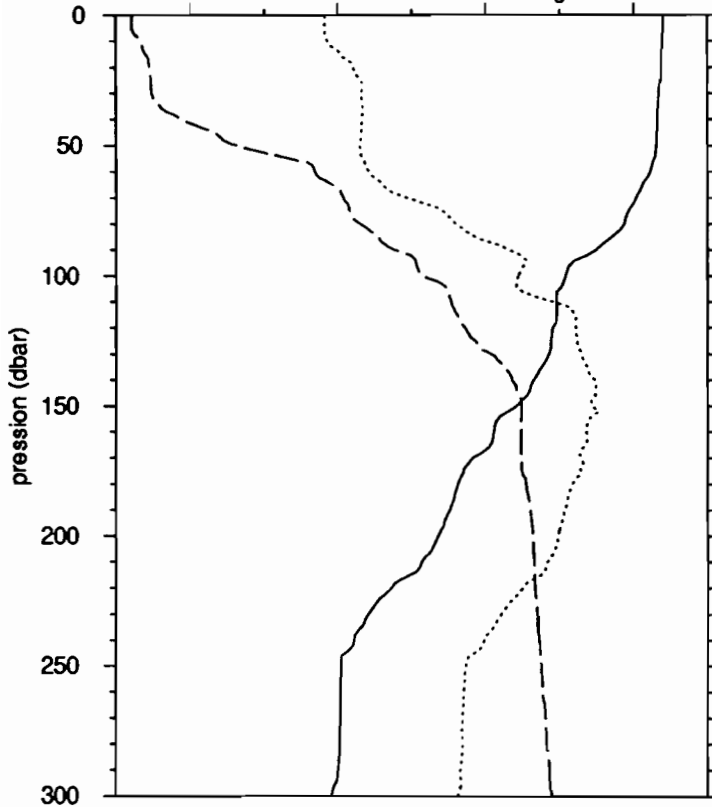
1°45 S 156°10 E

1/12/92, 20h 2 locale

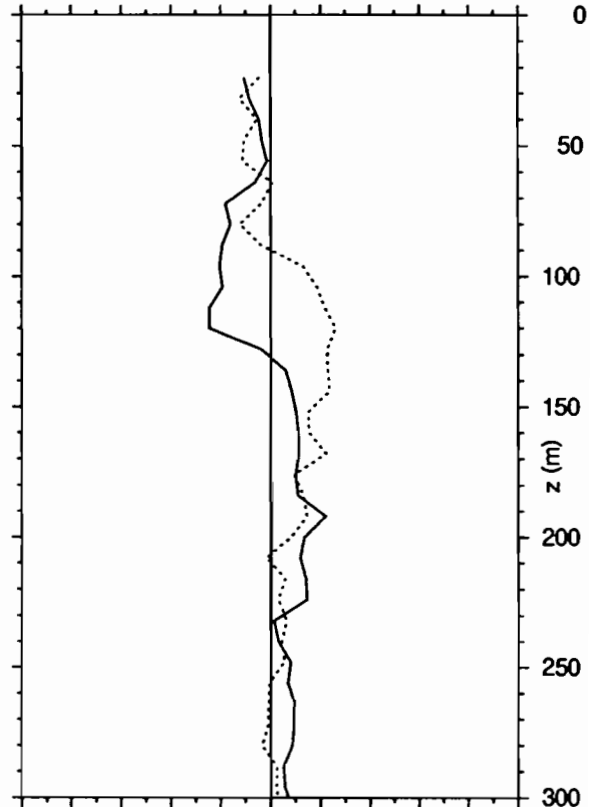
0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28



-80 -40 0 40 80

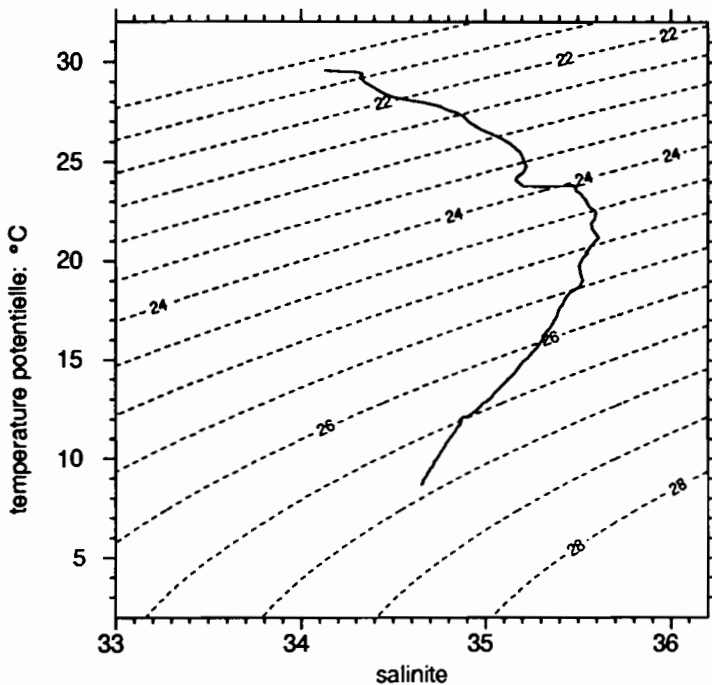


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.585	34.128
fin	502.0	8.710	34.652

	Z	U	V
debut	24.0	-10.5	-4.5
fin	376.0	18.2	-8.6



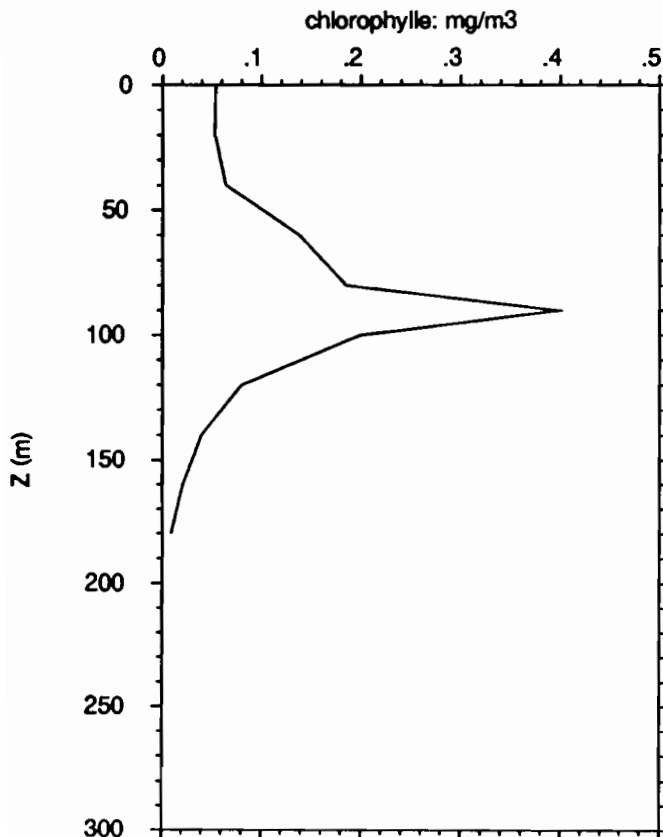
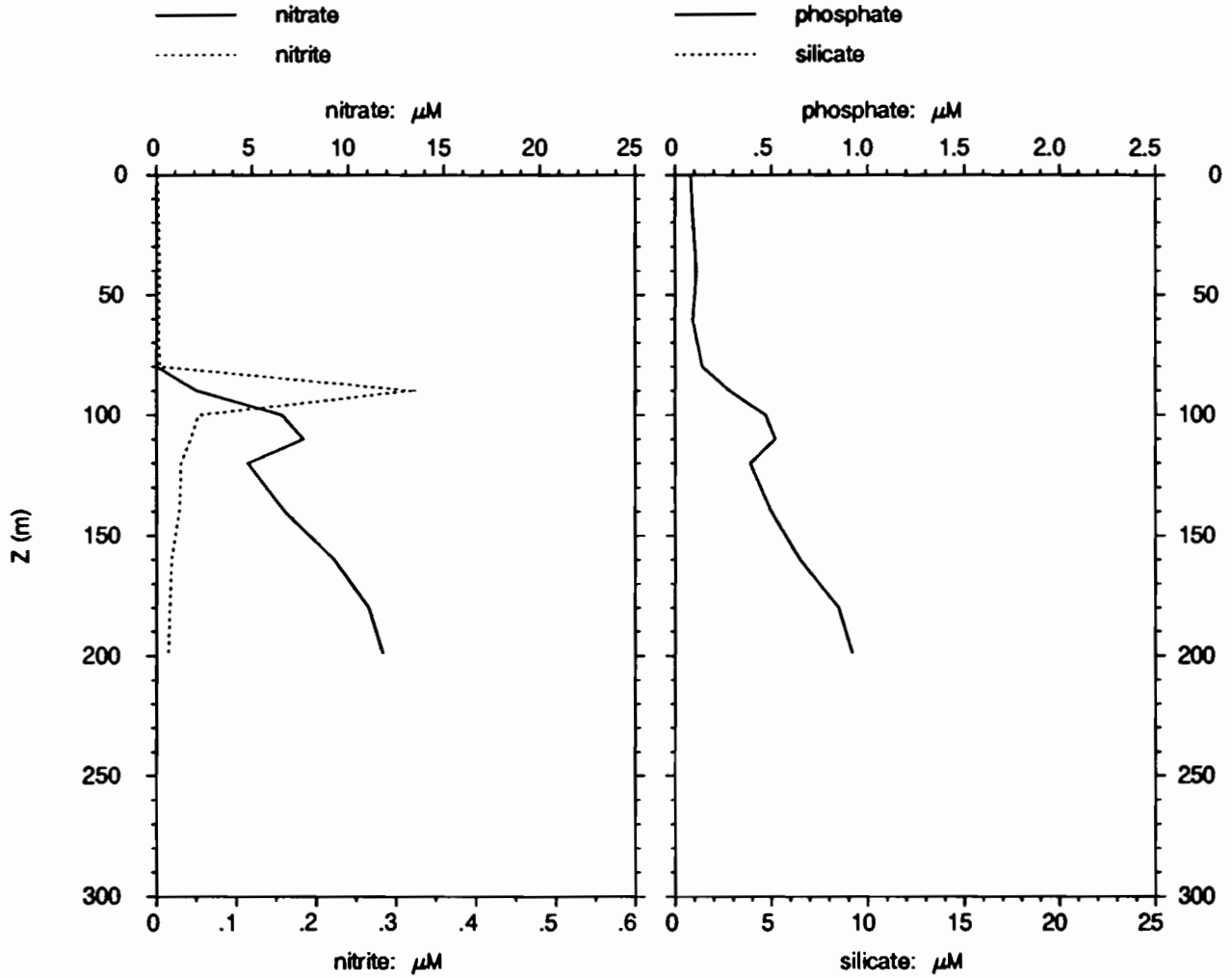
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.575	34.143		
20.0	29.505	34.283		
30.0	29.361	34.331	-9.0	-10.4
40.0	29.290	34.333	-4.6	-5.5
50.0	29.227	34.320	-2.9	-10.8
75.0	27.720	34.768	-17.4	-6.9
100.0	24.321	35.177	-20.0	15.7
125.0	23.555	35.495	-11.7	23.9
150.0	21.647	35.578	9.8	17.0
200.0	17.410	35.390	13.4	8.1
250.0	12.153	34.894	7.7	4.0
300.0	11.662	34.851	7.2	3.0
400.0	10.248	34.750		
500.0	8.758	34.655		

# EQUALIS - station183

1°45 S 156°10 E

1/12/92, 10h 2 TU

1/12/92, 20h 2 locale



Z m	NO <sub>3</sub> $\mu\text{M}$	NO <sub>2</sub> $\mu\text{M}$	PO <sub>4</sub> $\mu\text{M}$	SiO <sub>2</sub> $\mu\text{M}$
0	0.001	0.002	0.08	
19	0.000	0.003	0.09	
40	0.000	0.004	0.11	
60	0.001	0.003	0.09	
80	0.000	0.004	0.14	
90	2.10	0.319	0.28	
100	6.56	0.053	0.47	
110	7.67	0.043	0.52	
120	4.78	0.031	0.39	
140	6.71	0.029	0.50	
160	9.29	0.019	0.65	
180	11.10	0.017	0.85	
199	11.83	0.015	0.92	

Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
0	29.70	34.15	0.054	0.013	19.94
19	29.51	34.25	0.053	0.009	13.95
40	29.29	34.20	0.064	0.031	32.96
60	28.90	34.07	0.138	0.076	35.52
80	27.51	34.52	0.185	0.186	50.09
90	16.24	34.51	0.398	0.378	48.68
100	24.42	34.96	0.199	0.288	59.07
110	23.84	35.20	0.140	0.223	61.30
120	23.84	35.19	0.080	0.110	57.93
140	22.60	34.20	0.040	0.080	66.68
160	20.21	34.52	0.021	0.043	67.18
180	18.33	34.87	0.009	0.028	76.32
199	17.29	35.36			

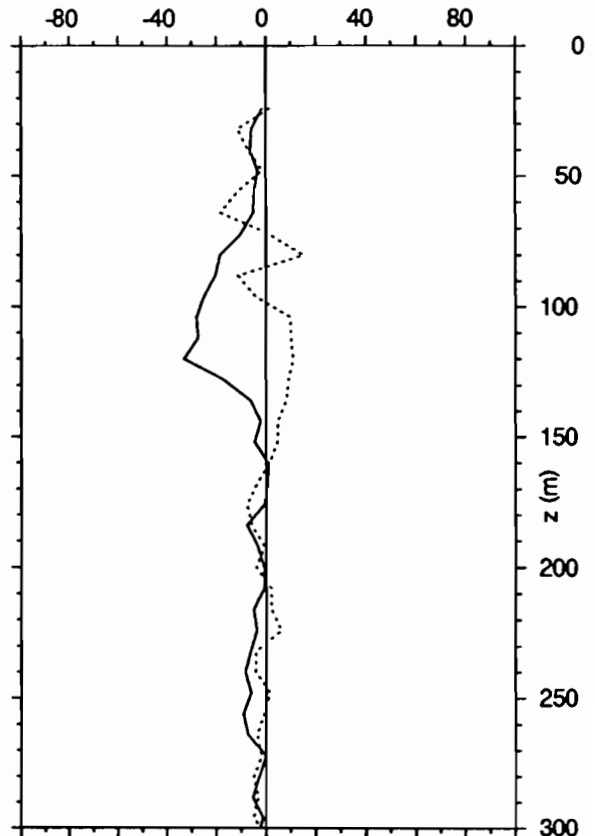
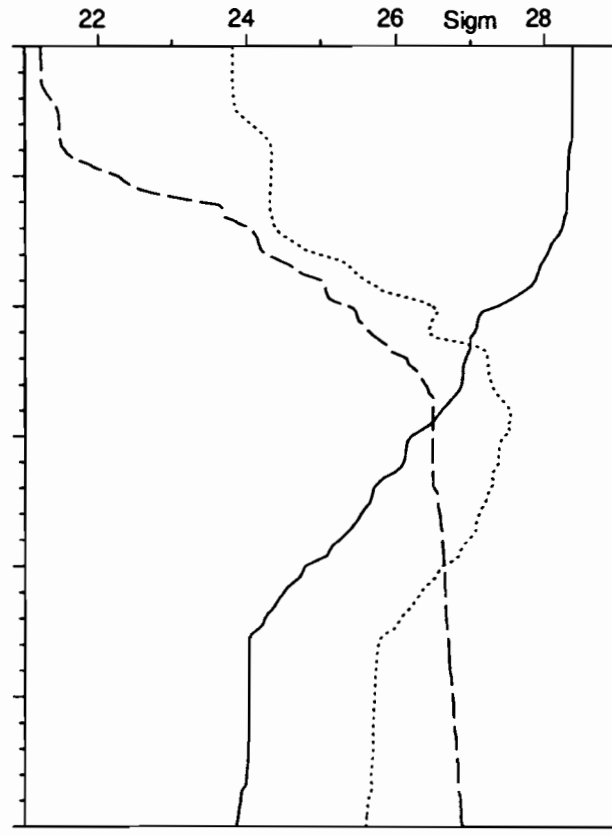
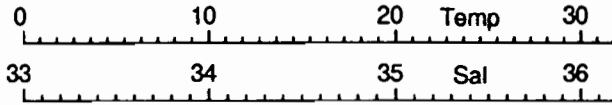


# EQUALIS -station 184

1/12/92, 13h 0 TU

1°45 S 156°10 E

1/12/92, 23h 0 locale

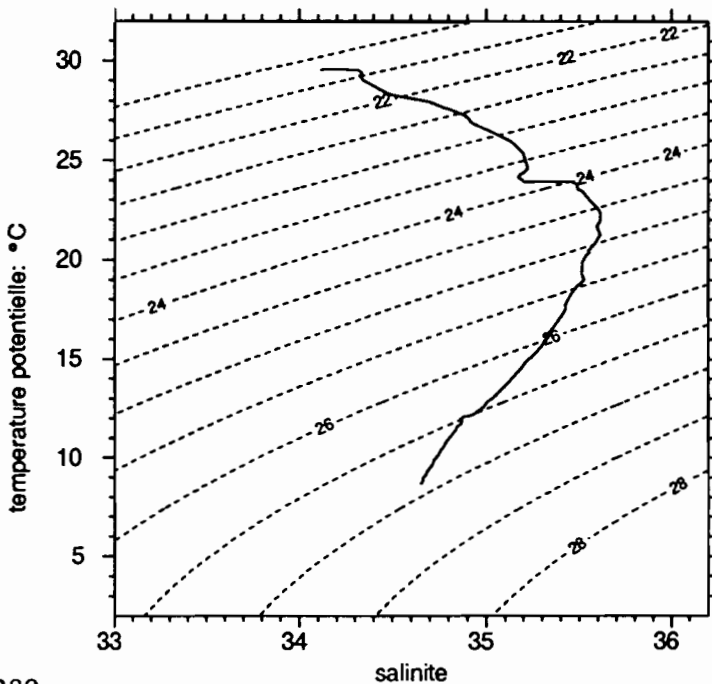


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.539	34.125
fin	504.0	8.712	34.653

	Z	U	V
debut	24.0	-1.5	1.4
fin	344.0	-11.6	9.2



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.532	34.124		
20.0	29.542	34.131		
30.0	29.550	34.222	-4.6	-8.1
40.0	29.374	34.332	-6.4	-7.3
50.0	29.285	34.332	-3.6	-3.8
75.0	28.483	34.446	-13.3	6.4
100.0	25.419	35.196	-26.5	2.8
125.0	23.573	35.496	-23.1	9.8
150.0	20.779	35.579	-3.9	4.7
200.0	15.115	35.241	-0.7	-3.9
250.0	12.127	34.885	-6.7	1.0
300.0	11.425	34.838	-2.4	-1.9
400.0	10.285	34.752		
500.0	8.828	34.662		

# EQUALIS - station184

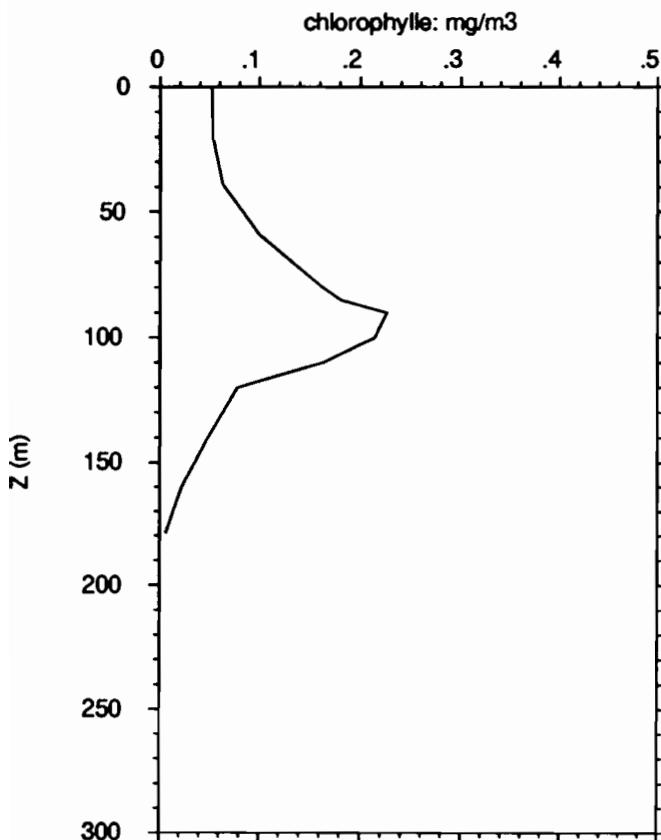
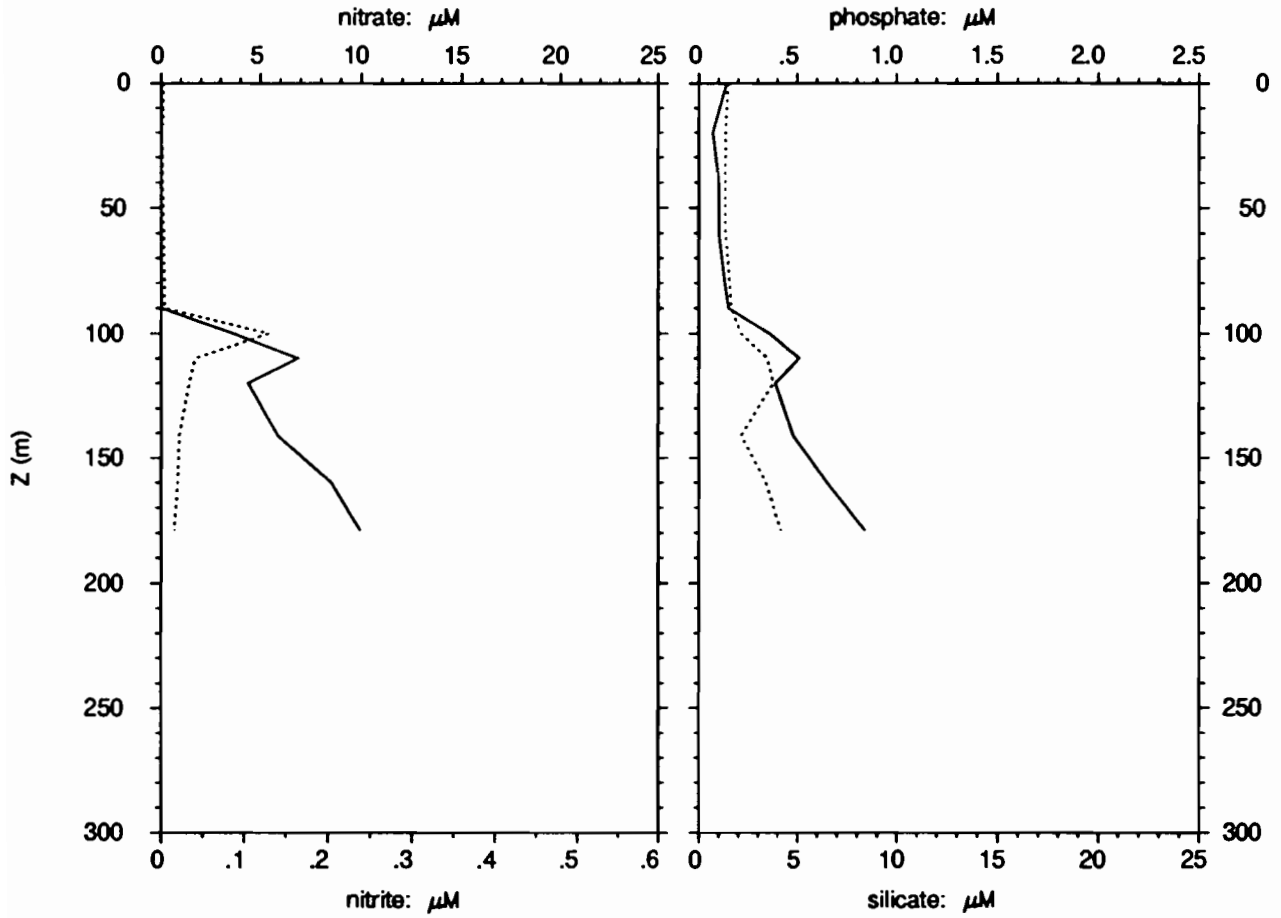
1°45 S 156°10 E

1/12/92, 13h 0 TU

1/12/92, 23h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.005	0.003	0.14	1.5
20	0.001	0.002	0.07	1.4
39	0.001	0.002	0.10	1.3
59	0.000	0.003	0.10	1.3
80	0.000	0.004	0.13	1.6
85	0.000	0.004	0.14	1.6
90	0.002	0.004	0.15	1.6
100	3.65	0.130	0.36	2.1
110	6.85	0.041	0.51	3.5
120	4.39	0.034	0.39	3.8
141	5.86	0.022	0.48	2.2
160	8.51	0.020	0.65	3.4
179	9.93	0.016	0.84	4.2

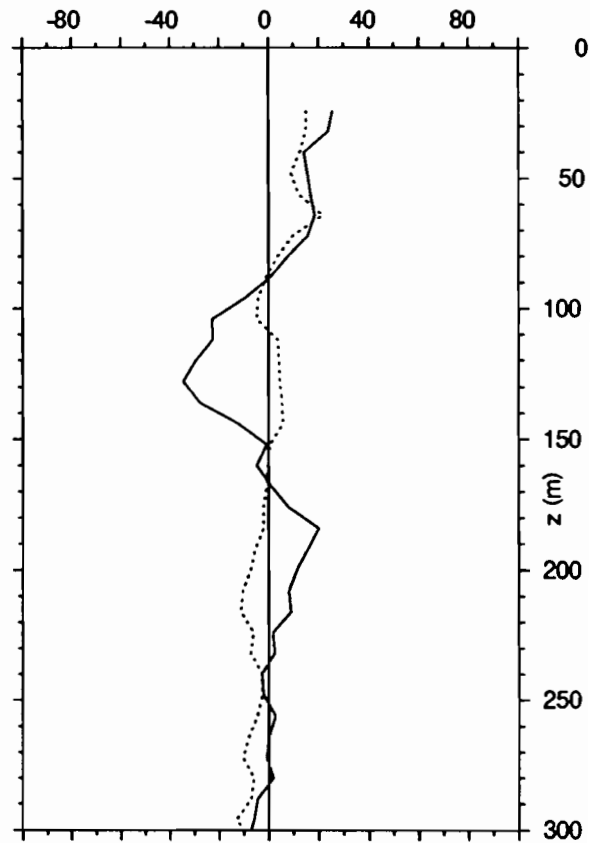
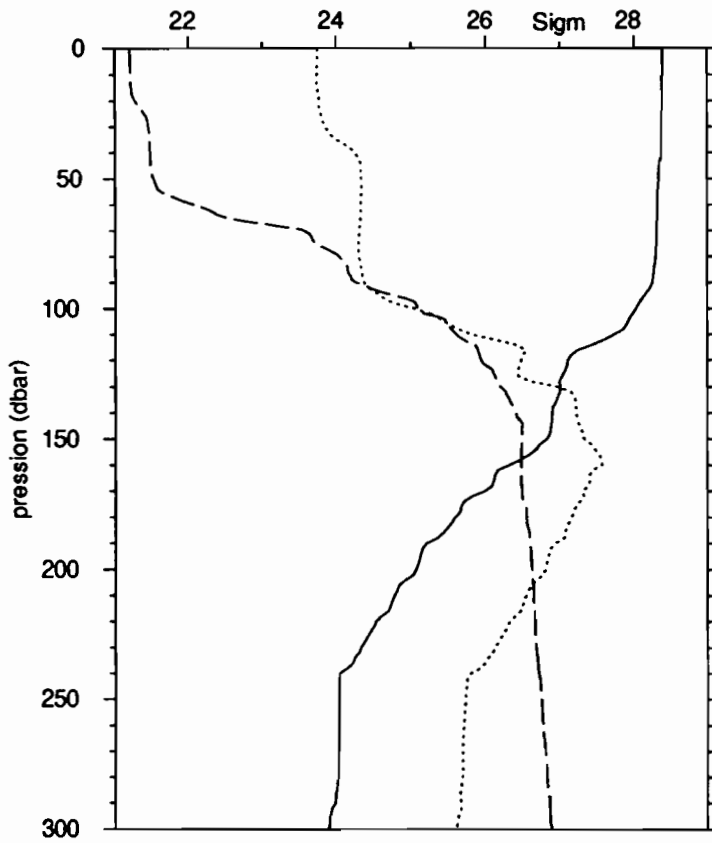
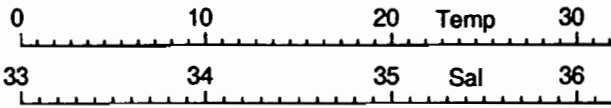
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.65	34.14	0.052	0.012	18.36
20	29.54	34.18	0.053	0.050	48.25
39	29.29	34.26	0.063	0.043	40.40
59	29.05	34.13	0.100	0.062	38.25
80	27.74	34.69	0.163	0.143	46.79
85	27.57	34.69	0.181	0.157	46.45
90	27.12	34.88	0.226	0.219	49.16
100	25.22	34.78	0.214	0.257	54.58
110	24.16	35.13	0.163	0.271	62.37
120	23.80	35.47	0.078	0.122	61.09
141	22.81	34.87	0.047	0.091	65.70
160	20.48	34.96	0.022	0.038	63.55
179	18.54	35.44	0.006	0.036	86.73

# EQUALIS -station 185

1°45 S 156°10 E

1/12/92, 16h 1 TU

2/12/92, 2h 1 locale

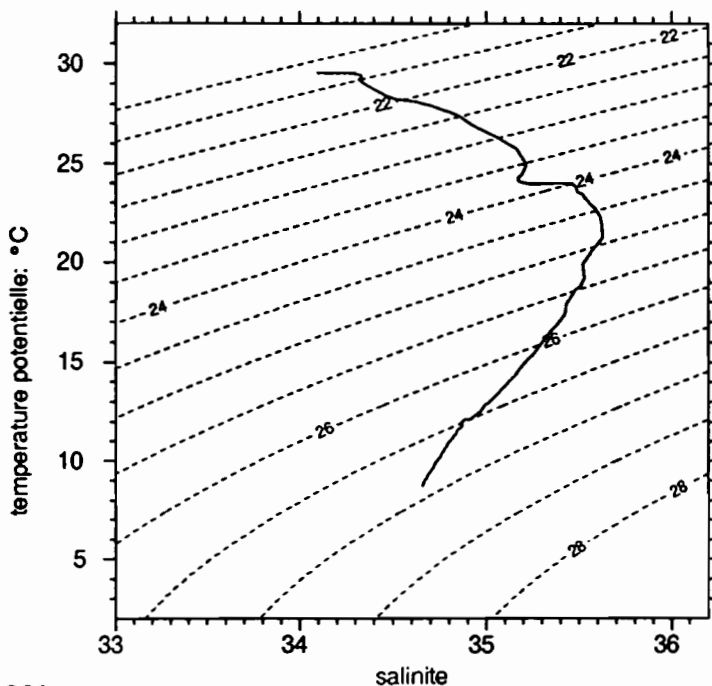


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.555	34.099
fin	500.0	8.774	34.657

	Z	U	V
debut	24.0	25.7	15.2
fin	336.0	-4.1	-9.2



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.539	34.097		
20.0	29.539	34.108		
30.0	29.538	34.140	24.4	15.1
40.0	29.492	34.296	14.3	12.6
50.0	29.348	34.334	16.0	9.9
75.0	29.227	34.320	12.8	7.6
100.0	28.115	34.623	-16.1	-4.4
125.0	24.195	35.174	-32.6	4.5
150.0	23.301	35.532	-3.6	2.1
200.0	16.248	35.320	11.2	-7.3
250.0	12.149	34.890	-0.8	-3.0
300.0	11.601	34.844	-7.2	-9.9
400.0	10.318	34.756		
500.0	8.774	34.657		

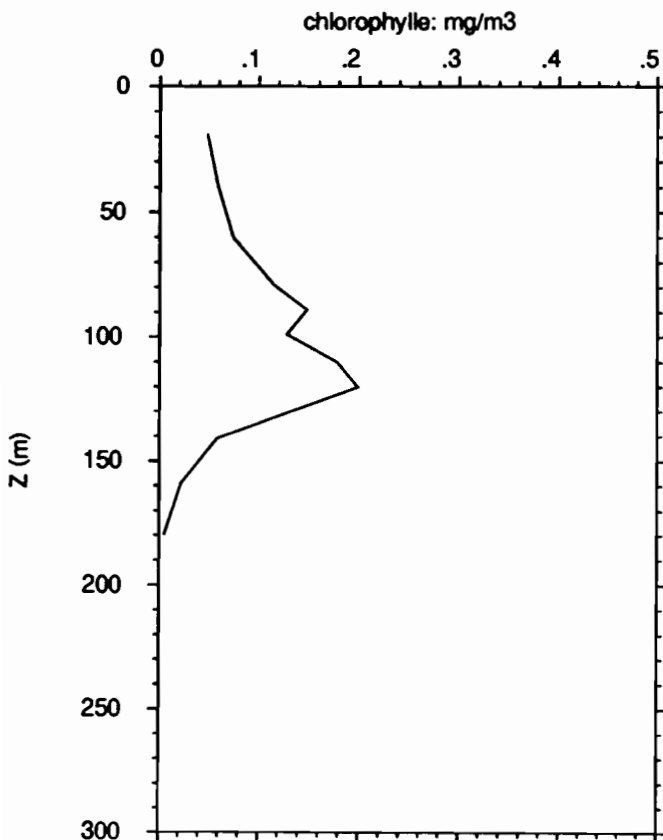
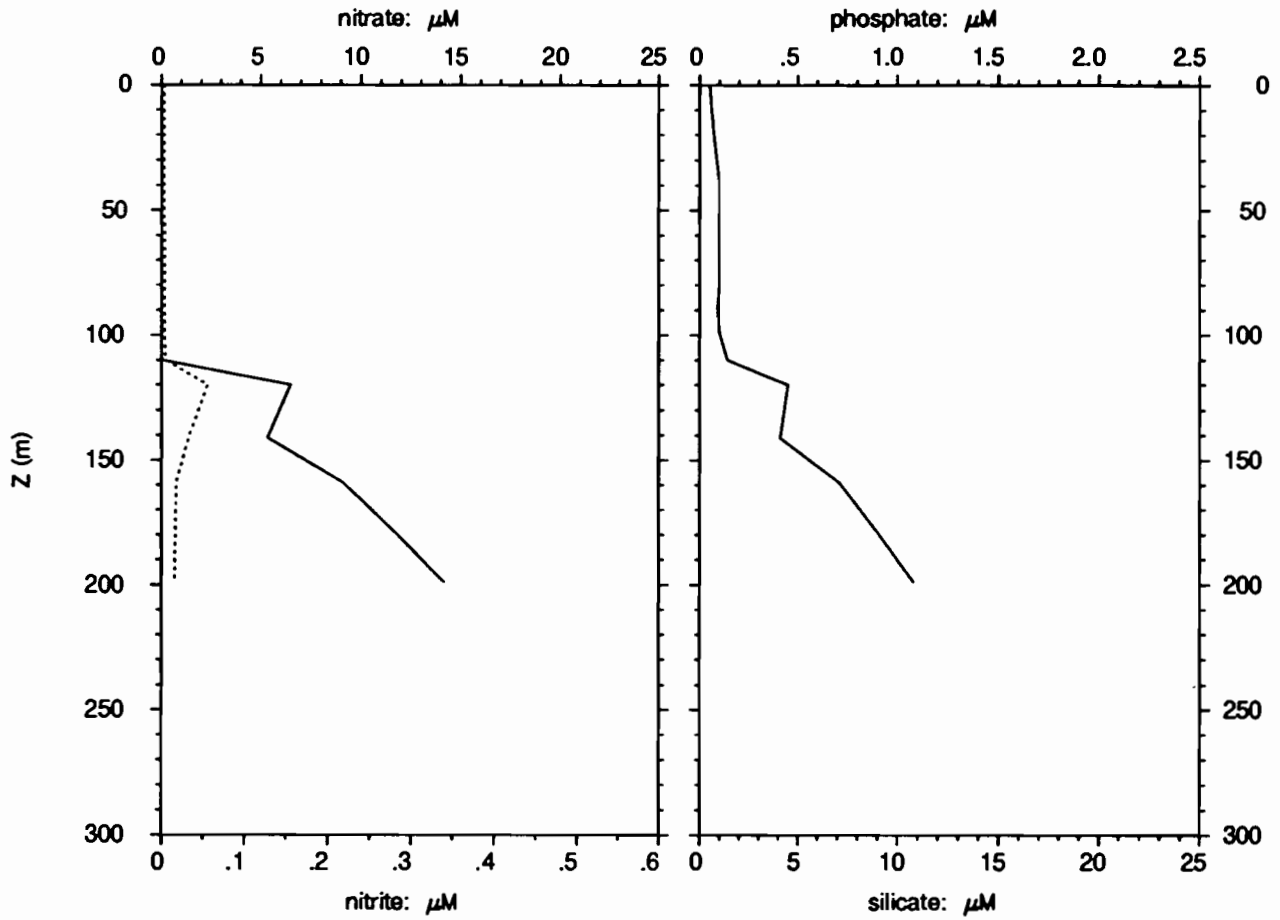
# EQUALIS - station185

1°45 S 156°10 E

1/12/92, 16h 1 TU

2/12/92, 2h 1 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.003	0.05	
19	0.001	0.003	0.07	
40	0.001	0.003	0.10	
60	0.000	0.004	0.10	
79	0.001	0.004	0.10	
89	0.000	0.004	0.09	
99	0.000	0.004	0.10	
110	0.001	0.005	0.14	
120	6.50	0.056	0.45	
141	5.35	0.033	0.41	
159	9.11	0.018	0.71	
180	11.83	0.017	0.91	
199	14.16	0.016	1.08	

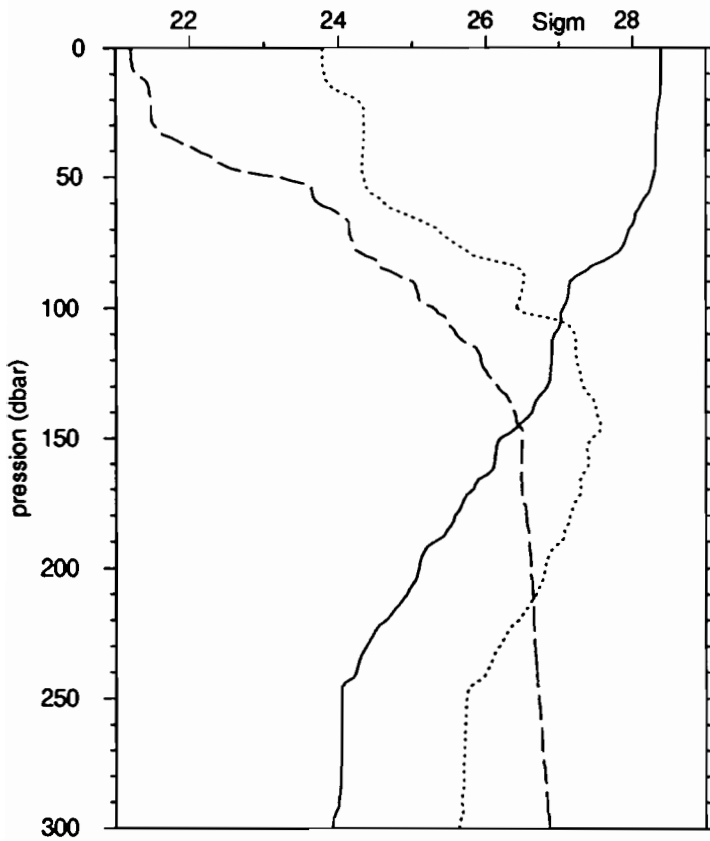
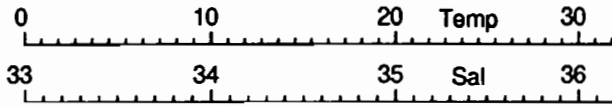
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.64	34.12			
19	29.54	34.14	0.048	0.035	42.32
40	29.39	34.30	0.059	0.044	42.70
60	39.27	34.29	0.074	0.054	42.42
79	29.15	34.22	0.115	0.076	39.85
89	28.94	33.90	0.148	0.100	40.37
99	28.12	34.09	0.128	0.100	44.02
110	27.18	33.57	0.178	0.199	52.67
120	24.46	34.76	0.199	0.296	59.77
141	23.53	33.98	0.058	0.105	64.36
159	20.33	33.97	0.022	0.041	65.33
180	17.22	34.42	0.005	0.032	86.27
199	15.43	35.21			

# EQUALIS -station 187

1/12/92, 19h 4 TU

1°45 S 156°10 E

2/12/92, 5h 4 locale

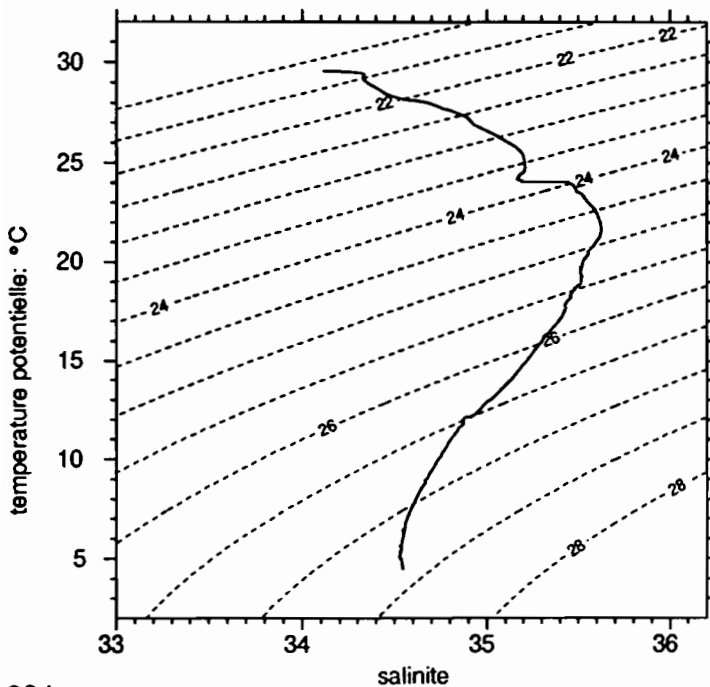


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.553	34.112
fin	1000.0	4.541	34.546

	Z	U	V
debut	24.0	11.8	-4.2
fin	384.0	-20.3	15.1



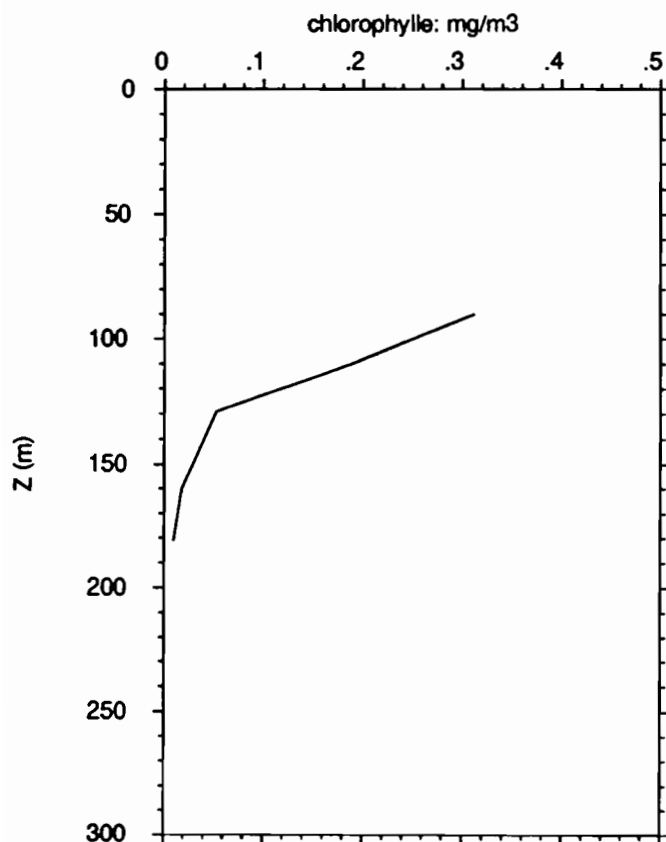
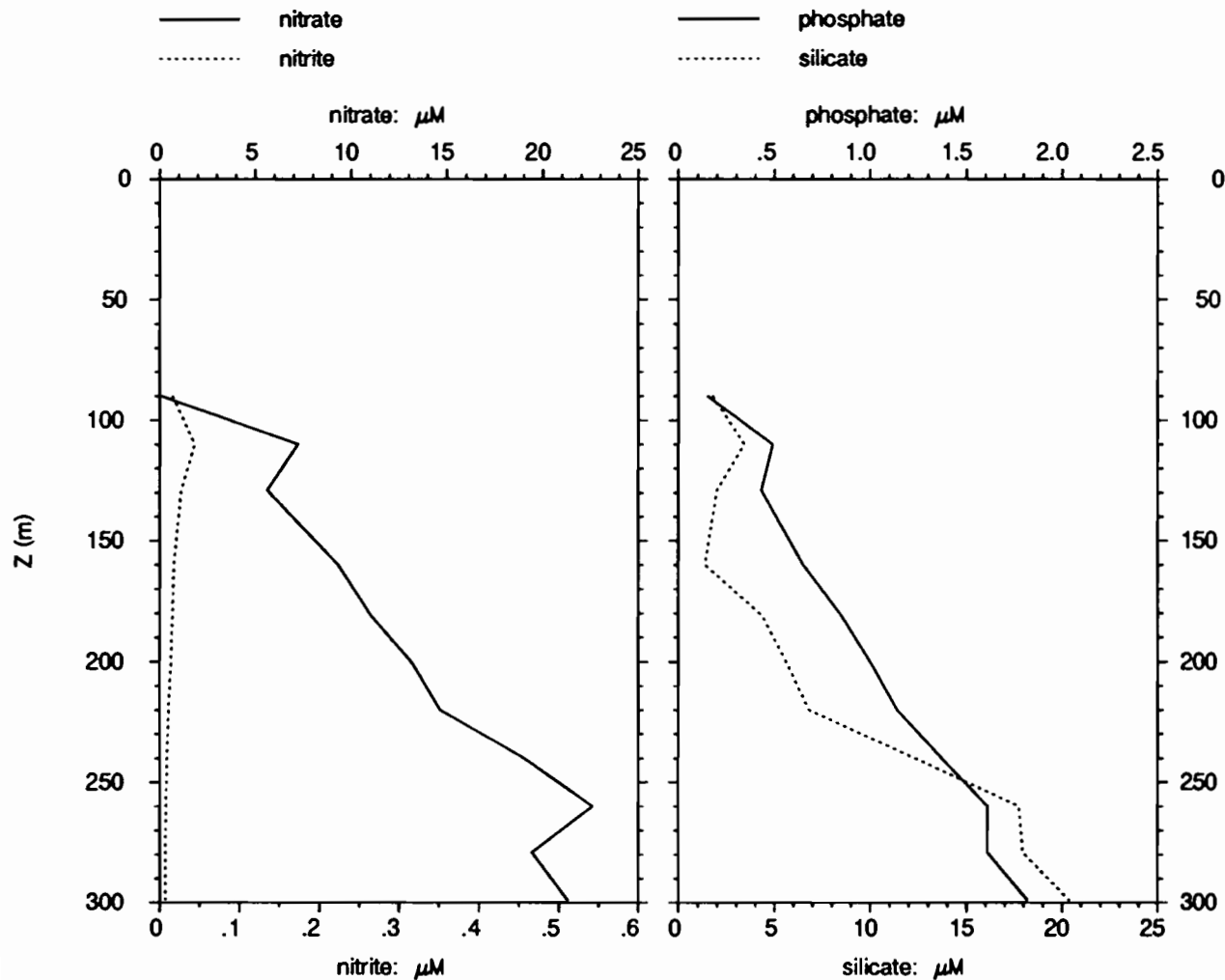
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.551	34.122		
20.0	29.471	34.299		
30.0	29.326	34.337	14.7	-3.7
40.0	29.265	34.331	21.4	-0.4
50.0	29.150	34.333	21.8	0.4
75.0	27.553	34.824	-11.6	-8.9
100.0	24.200	35.165	-15.1	10.6
125.0	23.508	35.514	-7.6	11.7
150.0	20.760	35.576	18.1	-6.1
200.0	16.342	35.324	13.8	-9.9
250.0	12.139	34.893	6.6	10.8
300.0	11.642	34.849	-0.7	7.7
400.0	10.527	34.771		
500.0	9.030	34.669		
600.0	6.587	34.557		
700.0	6.167	34.545		
800.0	5.563	34.539		
900.0	4.802	34.543		
1000.0	4.541	34.546		

# EQUALIS - station187

1°45 S 156°10 E

1/12/92, 19h 4 TU

2/12/92, 5h 4 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
90	0.069	0.016	0.15	1.8
110	7.23	0.044	0.49	3.4
129	5.62	0.027	0.43	2.0
160	9.31	0.018	0.65	1.4
181	11.03	0.016	0.85	4.3
200	13.15	0.014	1.00	5.6
220	14.64	0.011	1.14	6.8
240	19.03	0.009	1.37	12.3
260	22.59	0.008	1.61	17.7
279	19.43	0.007	1.61	18.0
299	21.29	0.007	1.82	20.4
1002	27.62	0.004	2.82	63.3

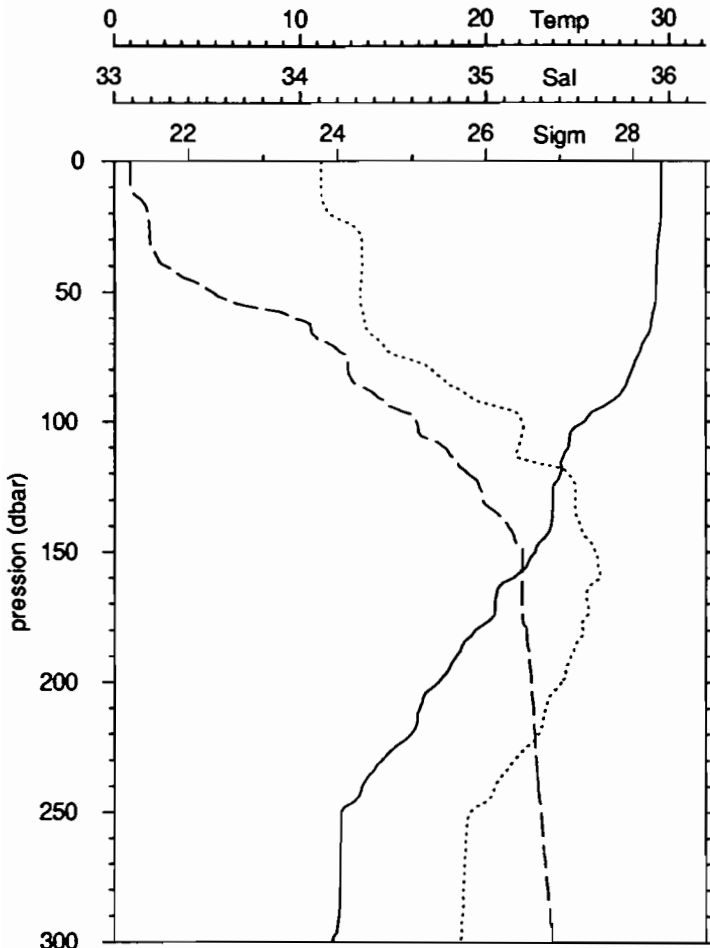
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
90	26.69	34.33	0.312	0.318	50.44
110	24.17	35.03	0.189	0.304	61.65
129	23.48	34.89	0.053	0.118	69.05
160	20.46	34.90	0.018	0.075	80.24
181	18.34	34.78	0.010	0.027	74.04
200	16.43	34.78			
220	15.03	34.11			
240	13.01	34.50			
260	12.13	34.80			
279	12.10	34.58			
299	11.58	34.83			
1002	4.54	34.54			

# EQUALIS -station 188

1/12/92, 20h 5 TU

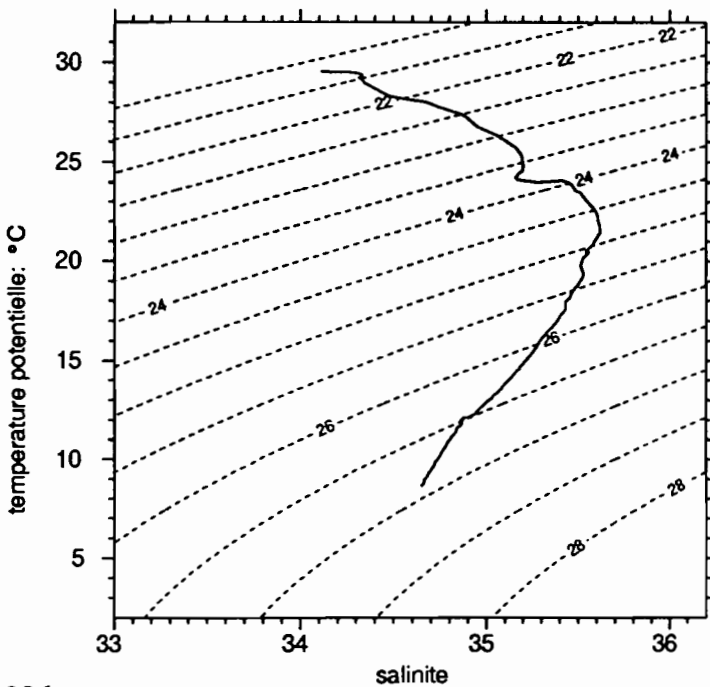
1°45 S 156°10 E

2/12/92, 6h 5 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.548	34.111
fin	500.0	8.694	34.647



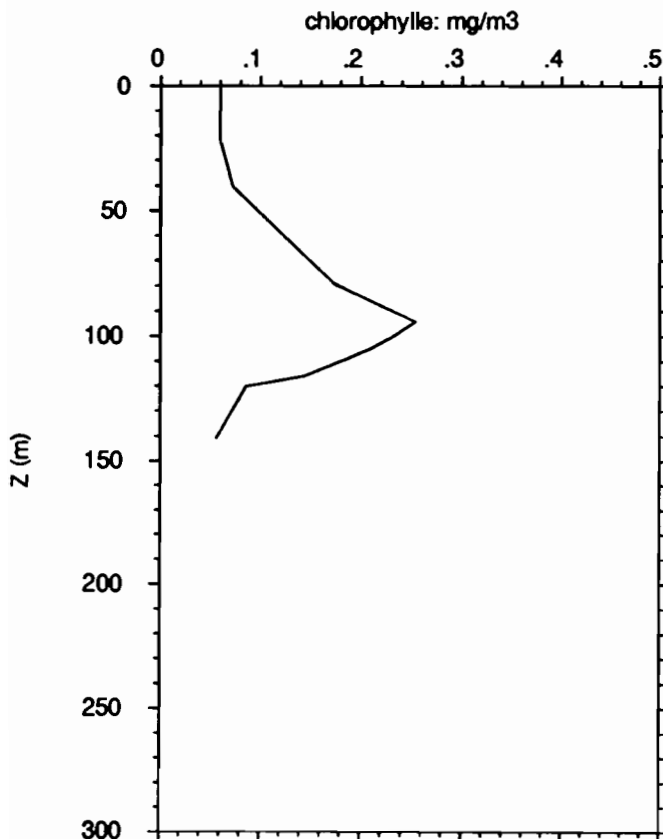
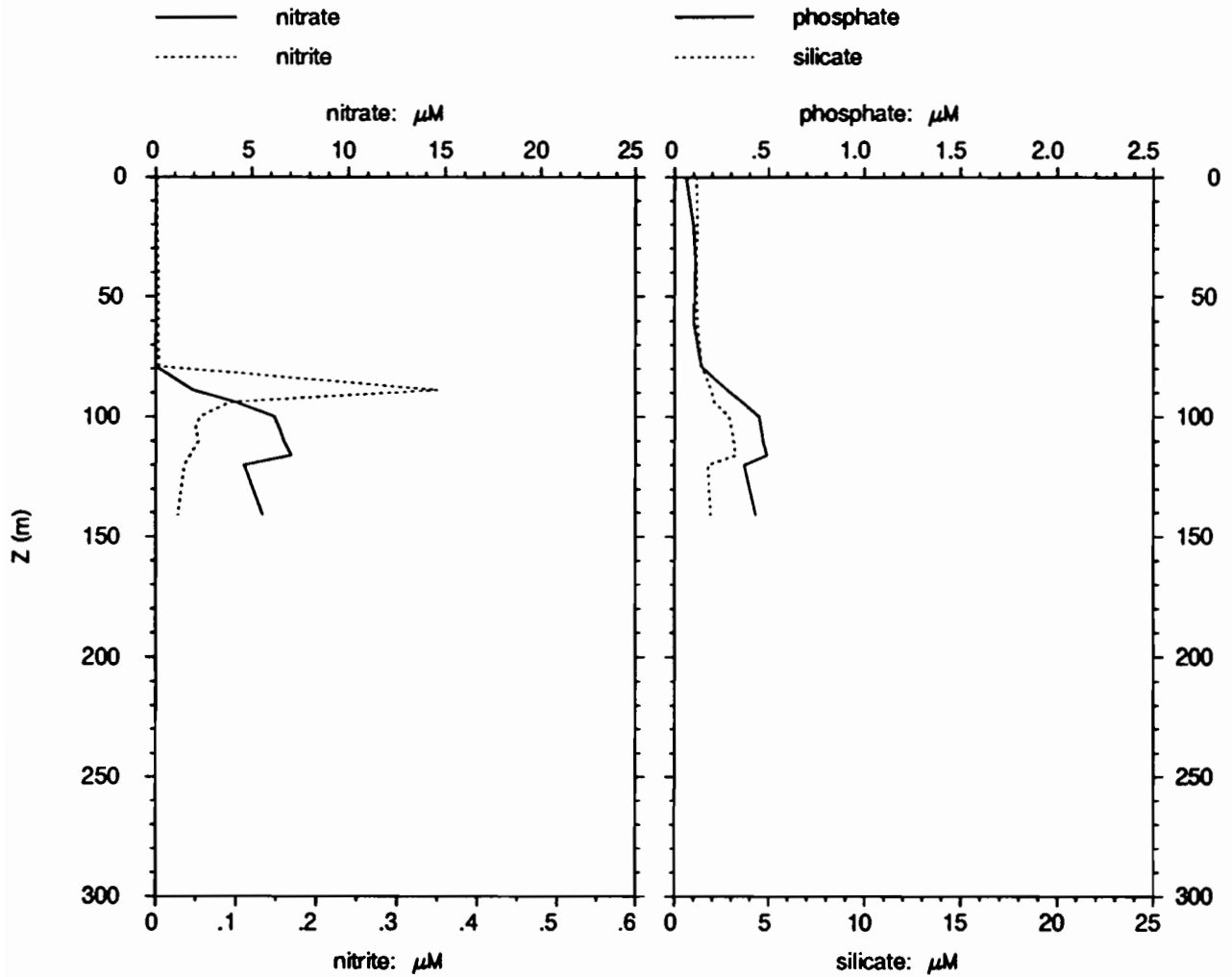
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.546	34.112		
20.0	29.536	34.152		
30.0	29.392	34.329		
40.0	29.298	34.331		
50.0	29.246	34.321		
75.0	28.217	34.536		
100.0	25.331	35.193		
125.0	23.641	35.483		
150.0	22.635	35.589		
200.0	17.376	35.407		
250.0	12.183	34.910		
300.0	11.688	34.853		
400.0	10.422	34.760		
500.0	8.694	34.647		

# EQUALIS - station188

1°45 S 156°10 E

1/12/92, 20h 5 TU

2/12/92, 6h 5 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.002	0.06	1.2
21	0.002	0.002	0.10	1.2
40	0.001	0.003	0.11	1.2
60	0.002	0.003	0.10	1.2
79	0.000	0.004	0.14	1.4
89	1.94	0.350	0.28	1.9
94	4.15	0.093	0.36	2.1
100	6.17	0.055	0.45	2.9
105	6.45	0.050	0.46	3.0
110	6.66	0.054	0.47	3.1
116	7.06	0.043	0.49	3.2
120	4.60	0.036	0.37	1.8
141	5.56	0.028	0.43	1.9

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.64	34.14	0.060	0.049	44.00
21	29.45	34.23	0.059	0.032	35.36
40	29.26	34.19	0.072	0.044	38.02
60	28.79	34.14			
79	27.56	34.13	0.173	0.153	46.86
89	25.89	34.75			
94	25.29	34.78	0.254	0.299	54.02
100	24.54	35.14	0.232	0.280	54.71
105	24.48	35.14	0.209	0.281	57.40
110	24.33	35.04	0.180	0.271	60.12
116	24.03	35.33	0.143	0.205	58.81
120	23.97	35.23	0.086	0.140	61.99
141	23.42	35.50	0.056	0.094	62.76

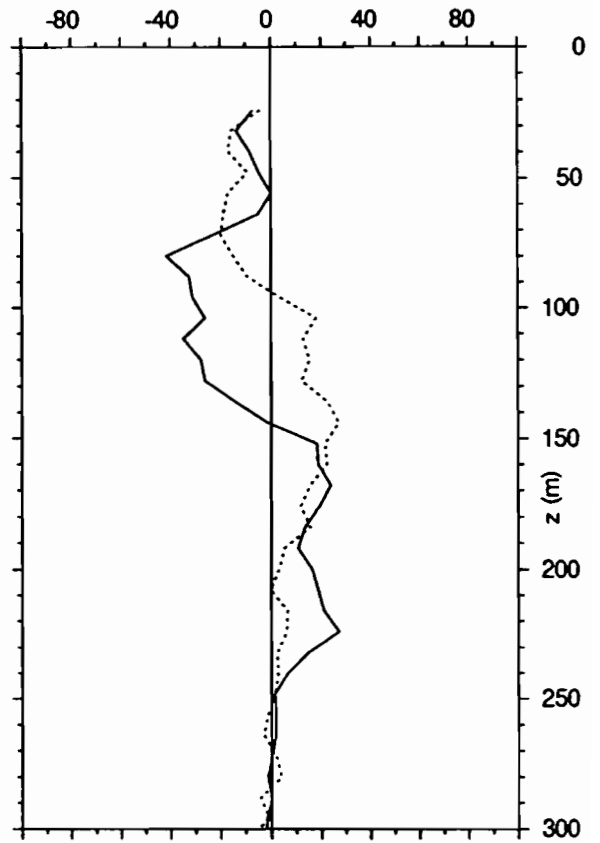
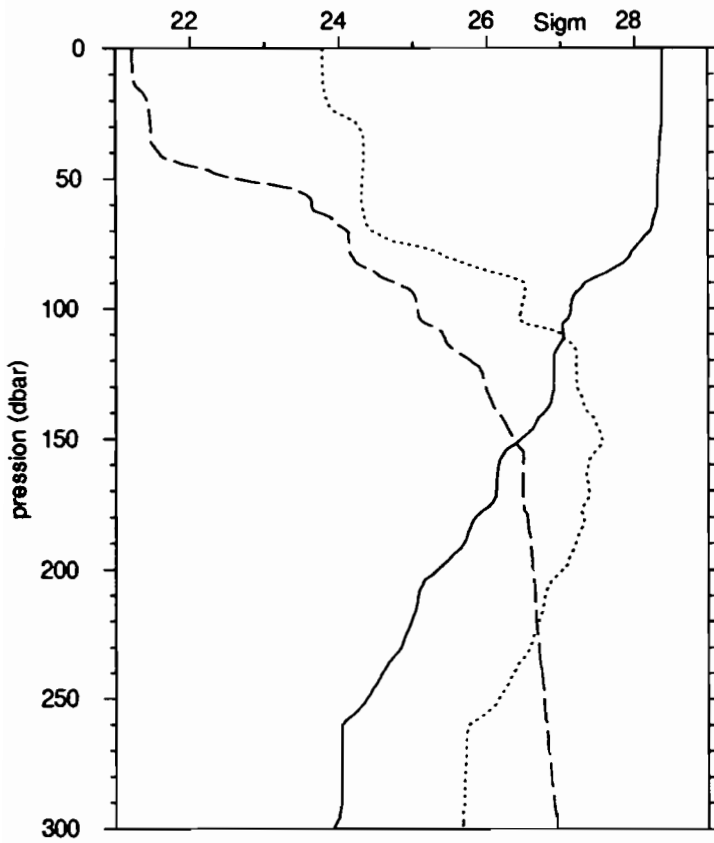


# EQUALIS -station 189

1/12/92, 22h 2 TU

1°45 S 156°10 E

2/12/92, 8h 2 locale

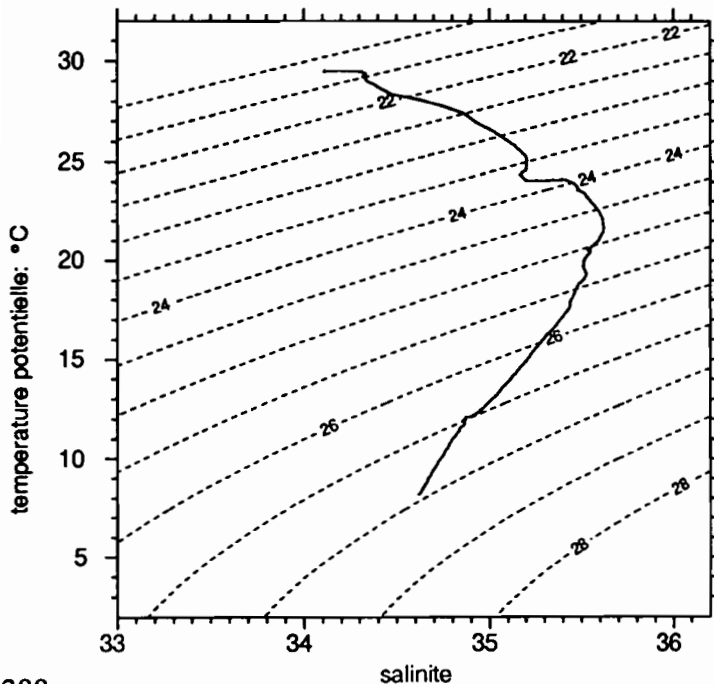


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.517	34.113
fin	500.0	8.199	34.618

	Z	U	V
debut	24.0	-7.0	-4.2
fin	408.0	-4.3	-9.5



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.512	34.114		
20.0	29.514	34.139		
30.0	29.463	34.306	-11.9	-12.8
40.0	29.350	34.333	-8.3	-16.8
50.0	29.267	34.325	-3.4	-11.1
75.0	28.212	34.551	-30.0	-17.9
100.0	24.534	35.186	-28.7	10.9
125.0	23.609	35.483	-26.9	13.3
150.0	21.818	35.620	13.4	22.9
200.0	17.281	35.405	16.3	3.1
250.0	13.473	35.060	1.6	0.9
300.0	11.688	34.856	-1.8	-5.2
400.0	10.153	34.745	-4.1	-9.5
500.0	8.199	34.618		

# EQUALIS - station189

1°45 S 156°10 E

1/12/92, 22h 2 TU

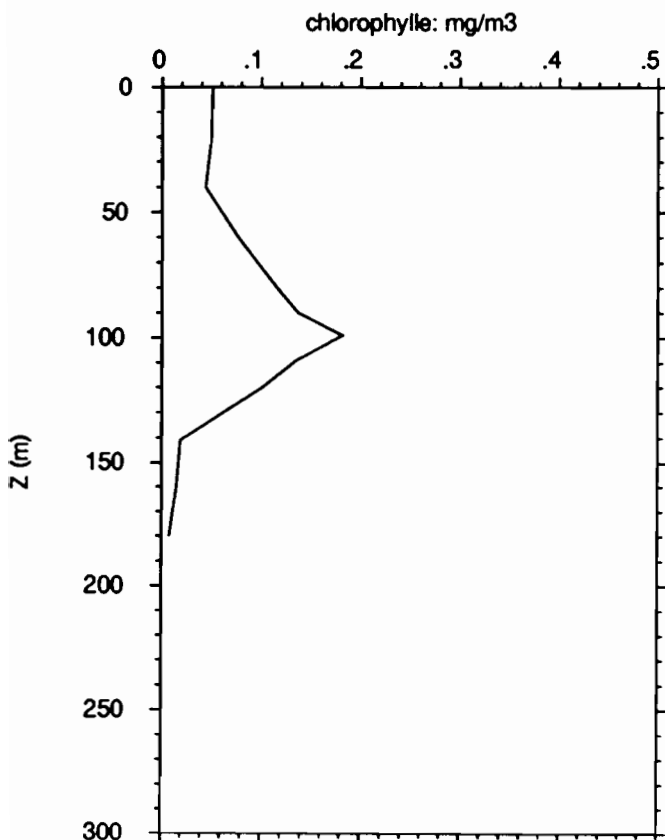
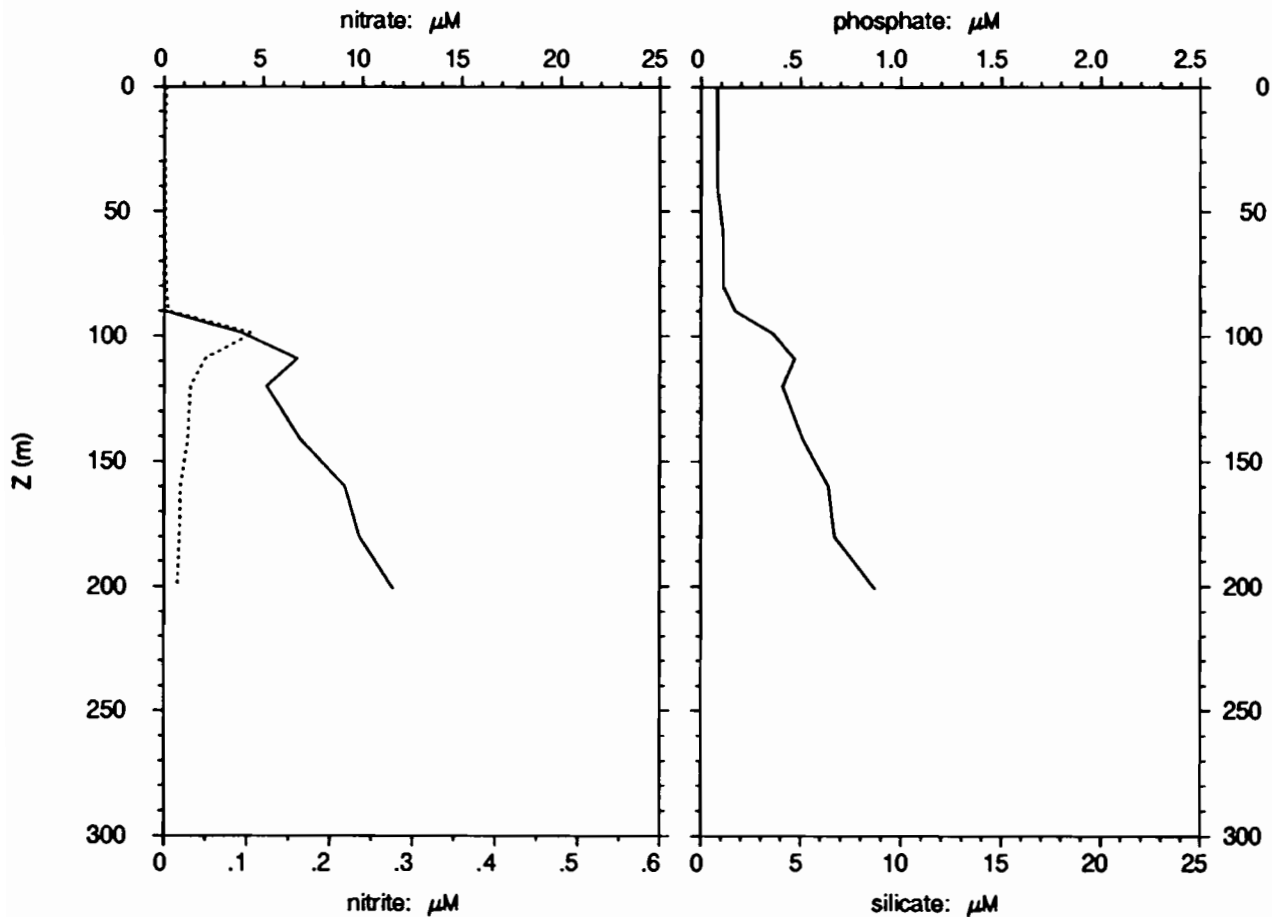
2/12/92, 8h 2 locale

— nitrate

⋯ nitrite

— phosphate

⋯ silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.003	0.003	0.08	
20	0.000	0.001	0.08	
40	0.000	0.002	0.08	
60	0.001	0.002	0.11	
80	0.001	0.003	0.11	
90	0.001	0.005	0.17	
99	3.96	0.107	0.36	
109	6.69	0.050	0.47	
120	5.16	0.032	0.41	
141	6.83	0.029	0.51	
160	9.10	0.020	0.64	
180	9.83	0.019	0.67	
201	11.52	0.016	0.87	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.76	34.14	0.051	0.011	18.36
20	29.51	34.20	0.050	0.023	31.25
40	29.31	34.31	0.044	0.041	48.19
60	29.21	34.18	0.077	0.042	35.44
80	28.13	34.44	0.116	0.121	50.97
90	27.23	34.43	0.137	0.234	63.05
99	25.26	34.89	0.182	0.409	69.19
109	24.05	35.29	0.135	0.364	72.85
120	23.64	35.46	0.101	0.075	42.48
141	22.70	35.56	0.019	0.088	82.13
160	20.63	35.36	0.015	0.069	82.54
180	19.58	34.47	0.008	0.046	85.00
201	17.97	35.42			

# EQUALIS -station 190

2/12/92, 0h59 TU

1°45 S 156°10 E

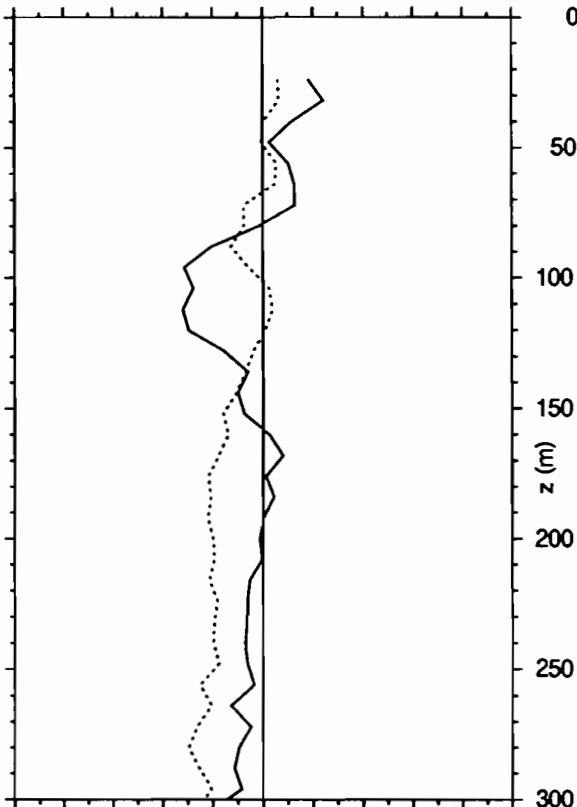
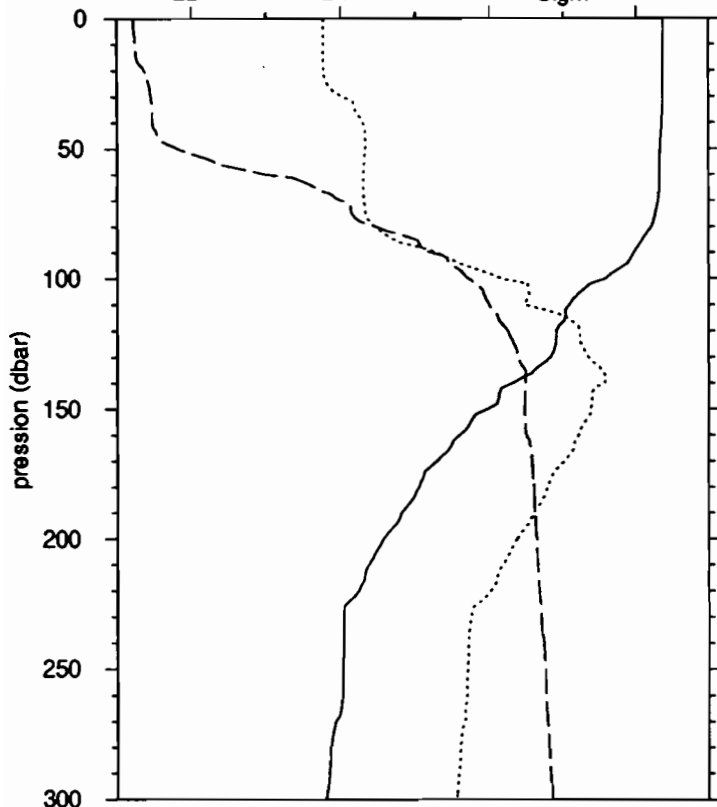
2/12/92, 10h59 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

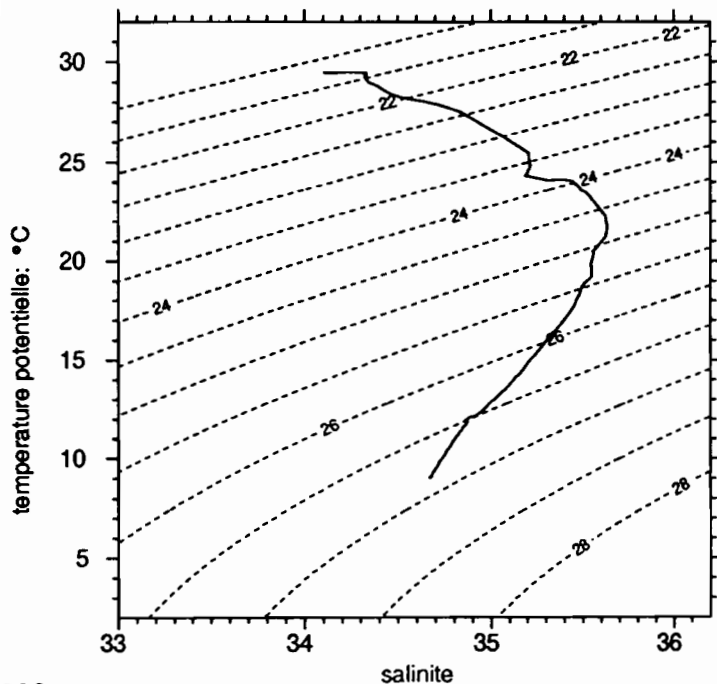


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.517	34.108
fin	500.0	9.060	34.667

	Z	U	V
debut	24.0	18.3	6.2
fin	416.0	-1.9	-18.0



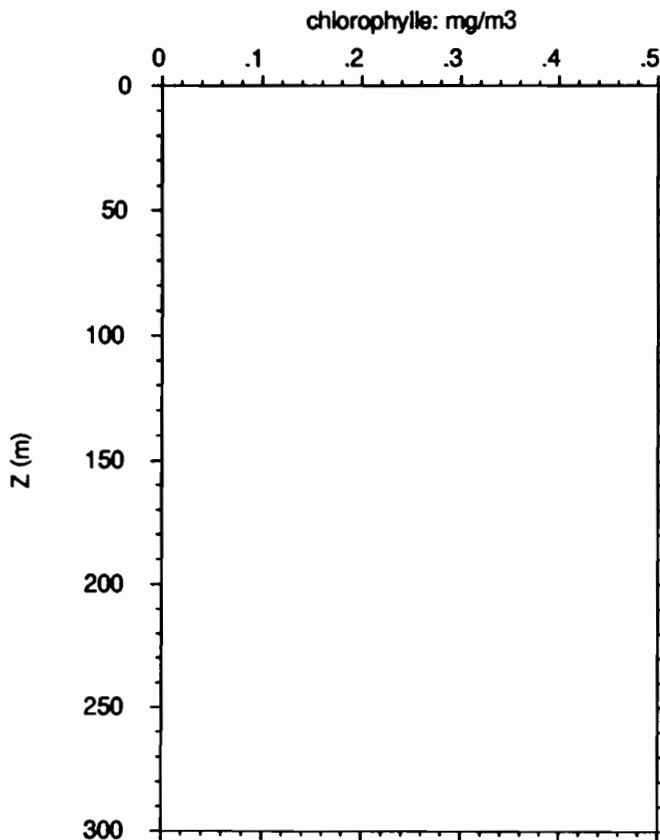
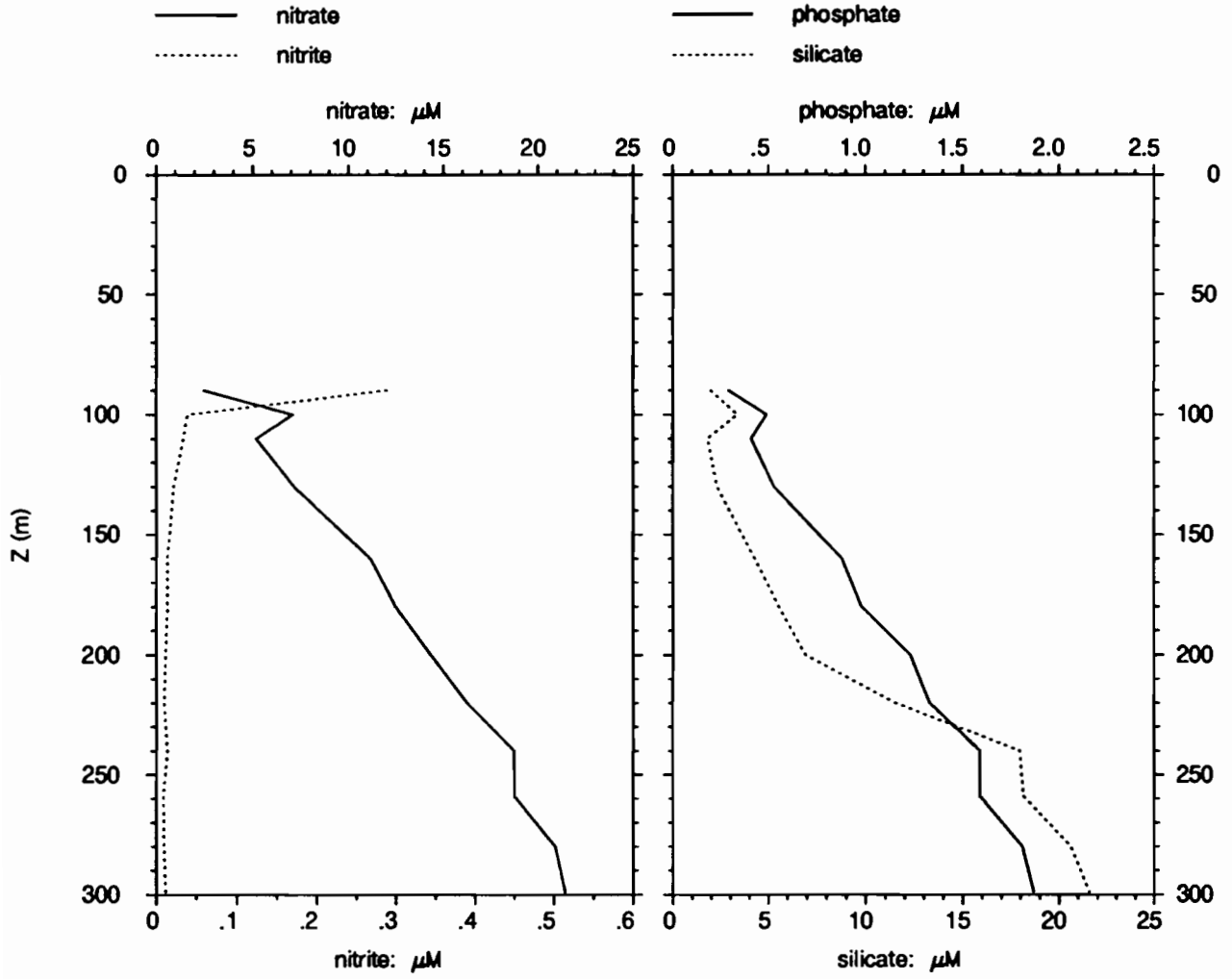
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.478	34.107		
20.0	29.453	34.109		
30.0	29.487	34.212	22.8	6.3
40.0	29.440	34.319	11.6	0.4
50.0	29.340	34.332	4.5	1.0
75.0	29.073	34.335	7.5	-7.6
100.0	26.311	35.066	-29.5	-1.6
125.0	23.582	35.499	-20.7	-2.0
150.0	19.884	35.546	-8.1	-14.5
200.0	14.274	35.148	-1.3	-19.9
250.0	12.123	34.880	-5.6	-19.4
300.0	11.207	34.821	-14.4	-23.5
400.0	10.140	34.744	-0.1	-18.6
500.0	9.060	34.667		

# EQUALIS - station190

1°45 S 156°10 E

2/12/92, 0h59 TU

2/12/92, 10h59 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	2.46	0.289	0.29	2.0
100	7.07	0.039	0.49	3.4
110	5.17	0.034	0.41	1.8
130	7.15	0.022	0.53	2.3
160	11.15	0.014	0.88	4.3
180	12.49	0.014	0.98	5.6
200	14.34	0.012	1.23	6.9
220	16.24	0.010	1.33	11.5
240	18.74	0.014	1.59	18.0
259	18.75	0.009	1.59	18.1
280	20.91	0.010	1.81	20.6
299	21.43	0.012	1.87	21.6

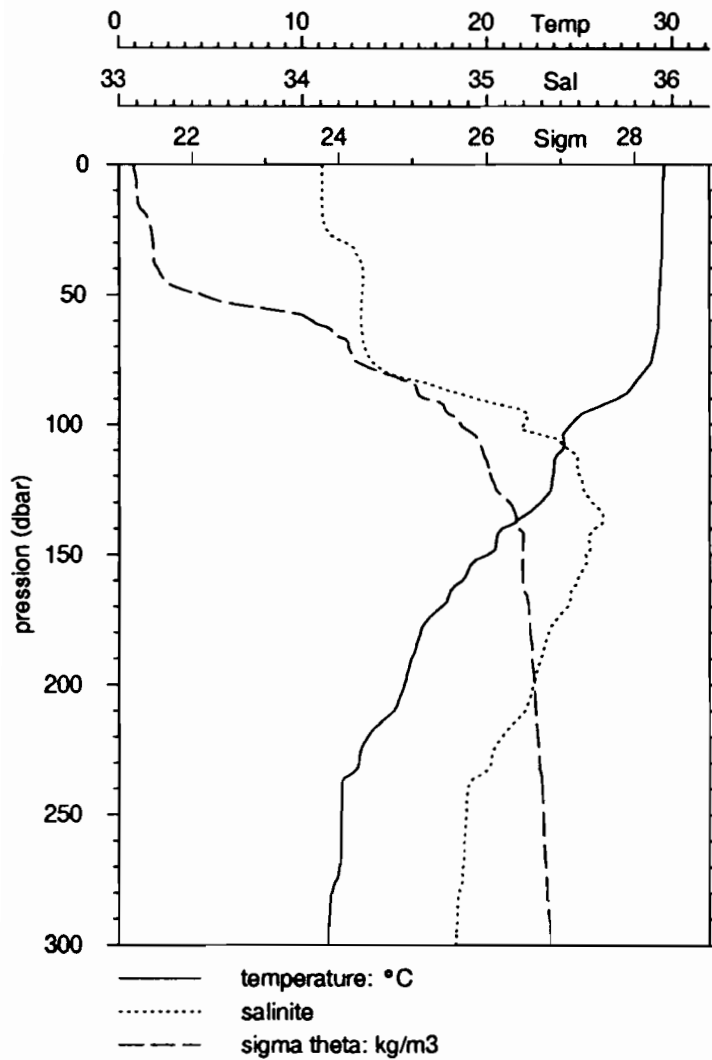
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
90	25.87	35.11			
100	24.05	35.19			
110	23.64	35.30			
130	22.30	35.57			
160	18.08	34.56			
180	16.27	34.97			
200	14.94	35.18			
220	13.22	34.57			
240	12.13	34.80			
259	12.10	34.60			
280	11.48	34.81			
299	11.23	34.81			

# EQUALIS -station 191

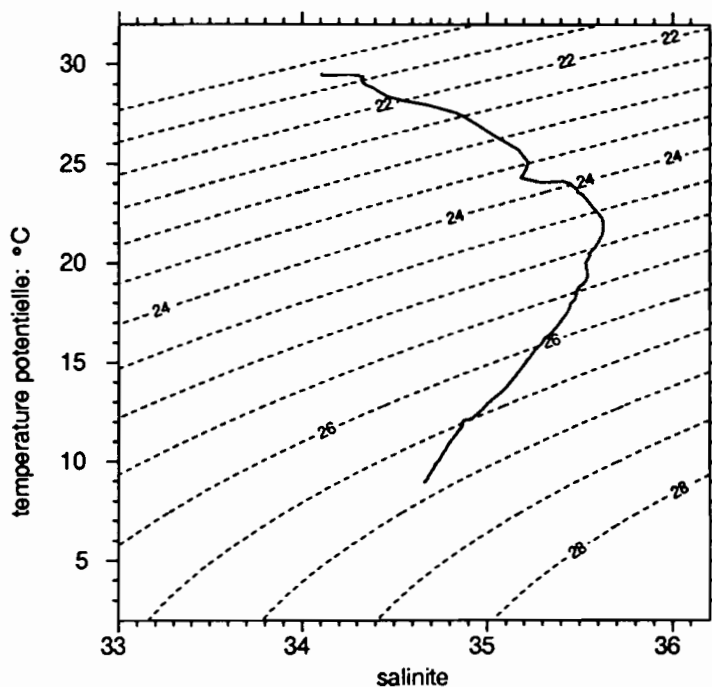
2/12/92, 1h46 TU

1°45 S 156°10 E

2/12/92, 11h46 locale



	P	T	S
debut	4.0	29.564	34.109
fin	502.0	8.959	34.667



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.477	34.109		
20.0	29.449	34.113		
30.0	29.485	34.238		
40.0	29.401	34.331		
50.0	29.295	34.326		
75.0	28.899	34.373		
100.0	24.551	35.198		
125.0	23.448	35.521		
150.0	20.058	35.535		
200.0	15.549	35.250		
250.0	12.153	34.889		
300.0	11.380	34.831		
400.0	10.049	34.737		
500.0	9.003	34.665		

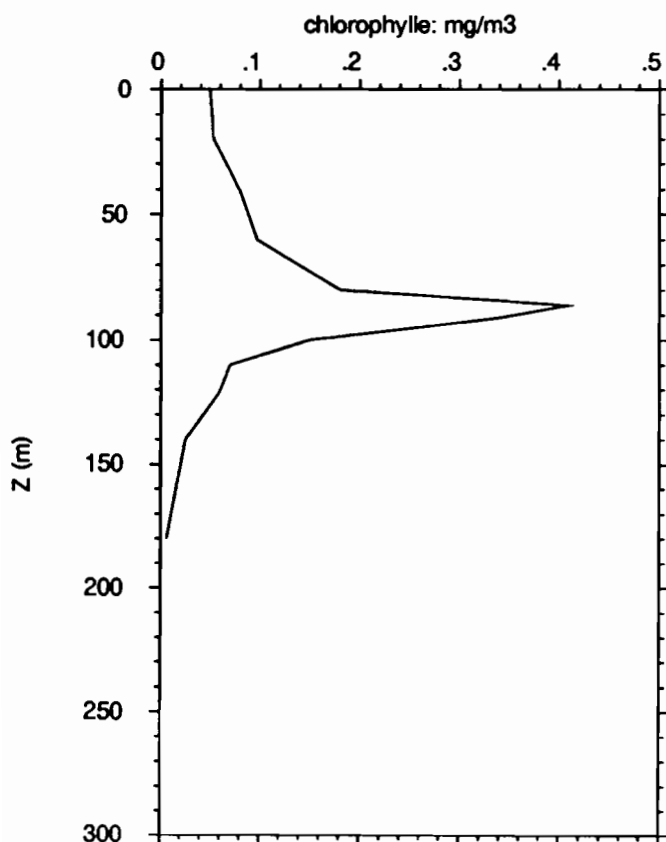
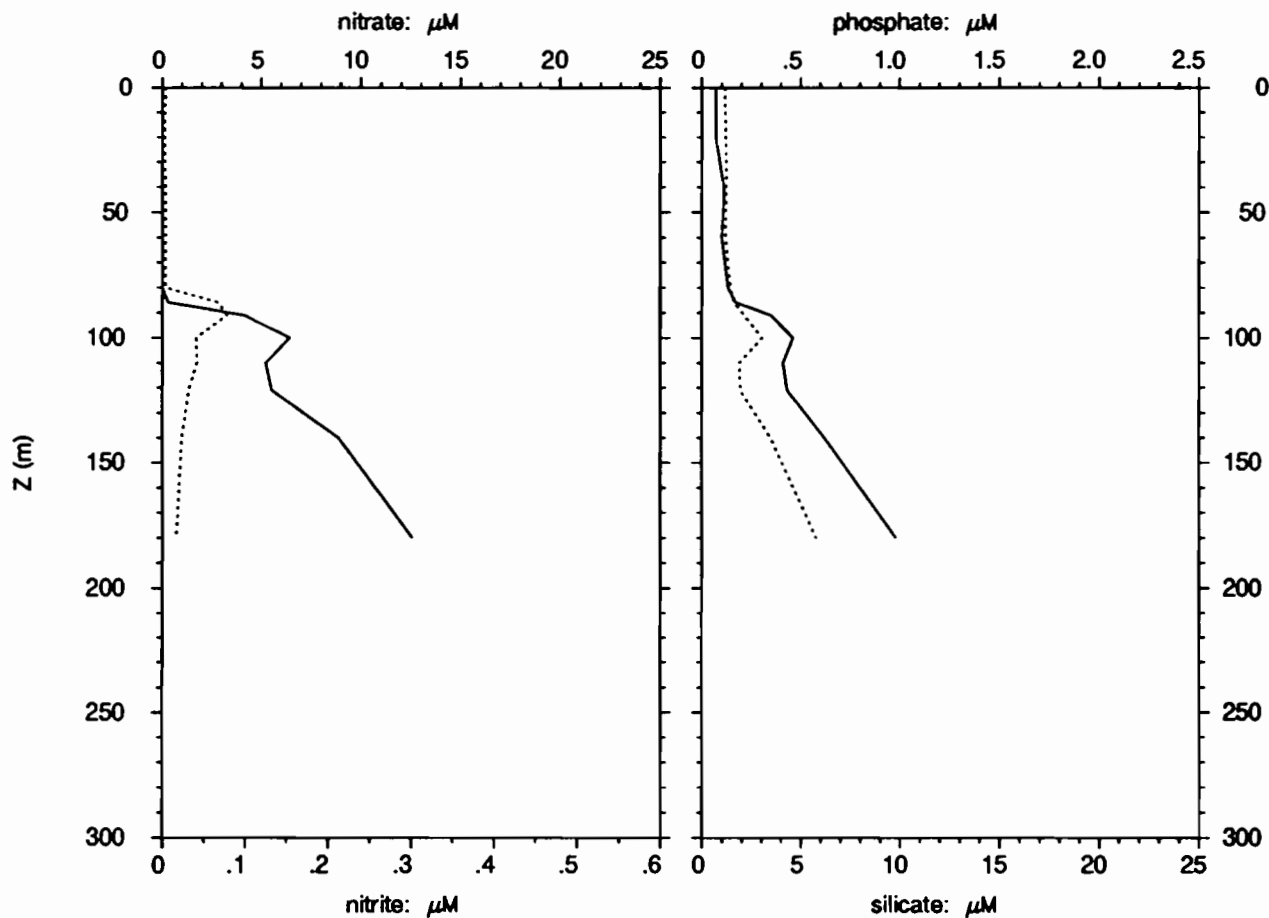
# EQUALIS - station191

1°45 S 156°10 E

2/12/92, 1h46 TU

2/12/92, 11h46 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.004	0.07	1.1
20	0.001	0.003	0.07	1.2
41	0.000	0.004	0.11	1.2
60	0.001	0.004	0.10	1.2
80	0.001	0.004	0.13	1.4
86	0.288	0.068	0.17	1.6
91	4.14	0.078	0.35	2.2
100	6.43	0.041	0.46	3.0
110	5.22	0.042	0.41	1.9
121	5.52	0.032	0.43	1.9
140	8.88	0.024	0.62	3.5
180	12.55	0.017	0.98	5.8

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.50	34.15	0.049	0.008	13.55
20	29.45	34.13	0.053	0.037	41.26
41	29.35	34.30	0.080	0.043	34.81
60	29.16	34.14	0.097	0.078	44.56
80	27.83	34.72	0.181	0.151	45.60
86	26.63	34.75	0.410	0.405	49.71
91	25.17	34.87	0.340	0.455	57.23
100	24.07	35.24	0.149	0.227	60.36
110	23.64	35.39	0.070	0.125	63.88
121	23.45	35.14	0.059	0.117	66.61
140	20.47	35.52	0.025	0.056	69.41
180	16.29	35.29	0.006	0.039	87.20

# EQUALIS -station 192

2/12/92, 4h 4 TU

1°45 S 156°10 E

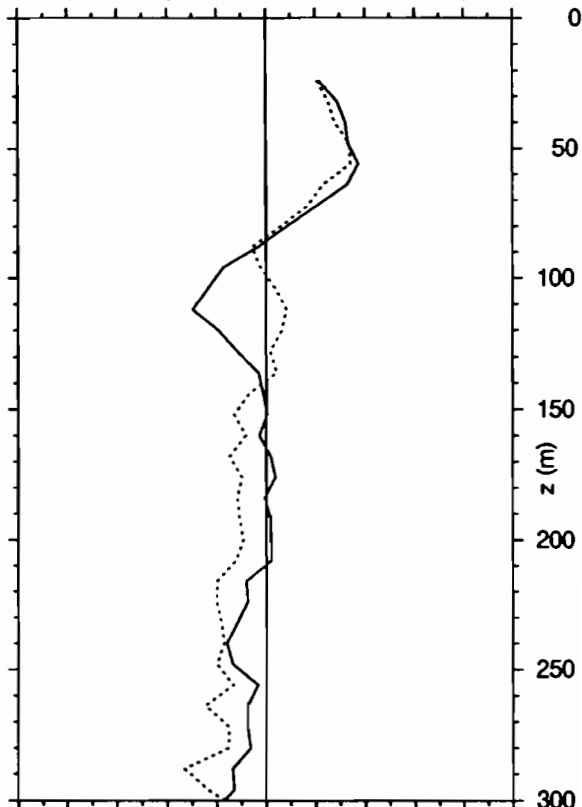
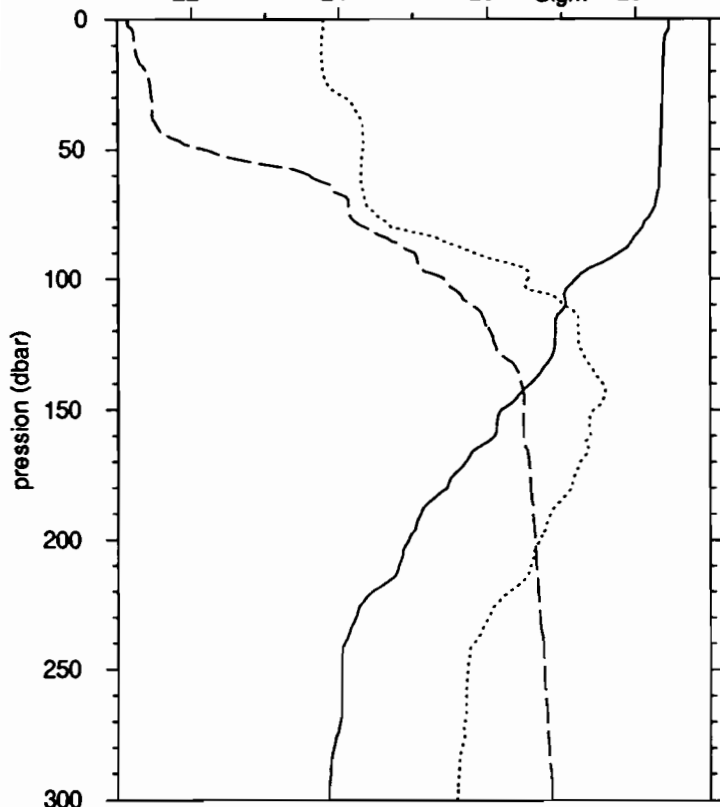
2/12/92, 14h 4 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

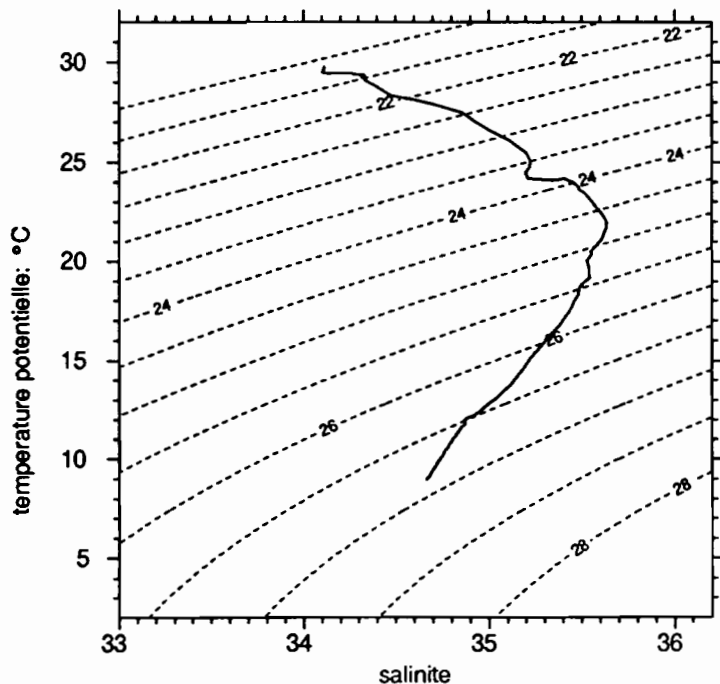


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m<sup>3</sup>

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.783	34.114
fin	500.0	9.000	34.666

	Z	U	V
debut	24.0	21.7	20.9
fin	416.0	-14.3	-29.6



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.525	34.106		
20.0	29.472	34.113		
30.0	29.452	34.234	27.2	24.2
40.0	29.386	34.326	32.2	27.9
50.0	29.322	34.330	34.3	34.0
75.0	28.799	34.397	16.2	12.9
100.0	24.739	35.216	-20.5	1.0
125.0	23.606	35.491	-14.5	3.5
150.0	20.708	35.570	0.1	-11.4
200.0	15.763	35.280	1.9	-9.3
250.0	12.146	34.891	-10.9	-18.3
300.0	11.406	34.835	-17.2	-17.1
400.0	10.087	34.743	25.0	-62.8
500.0	9.000	34.666		

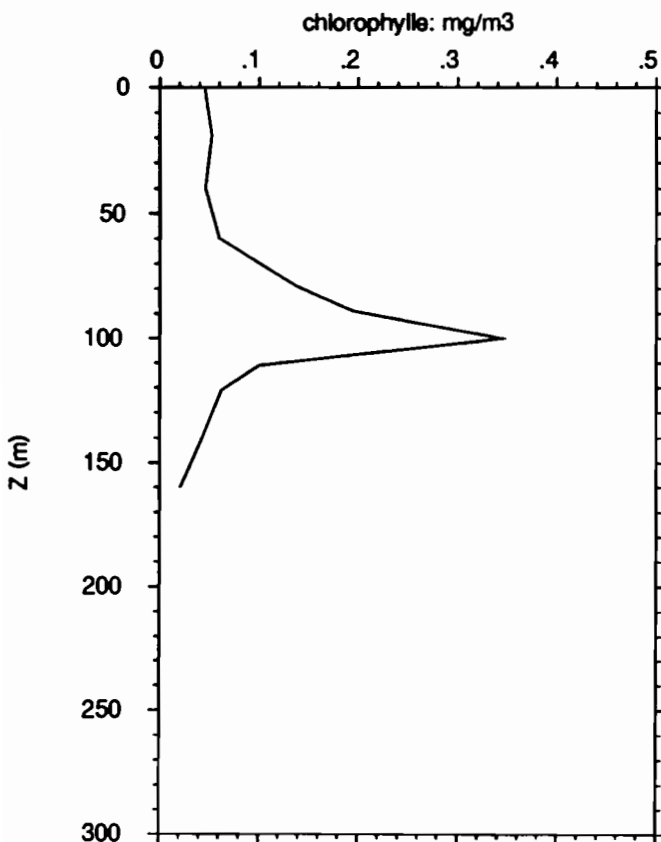
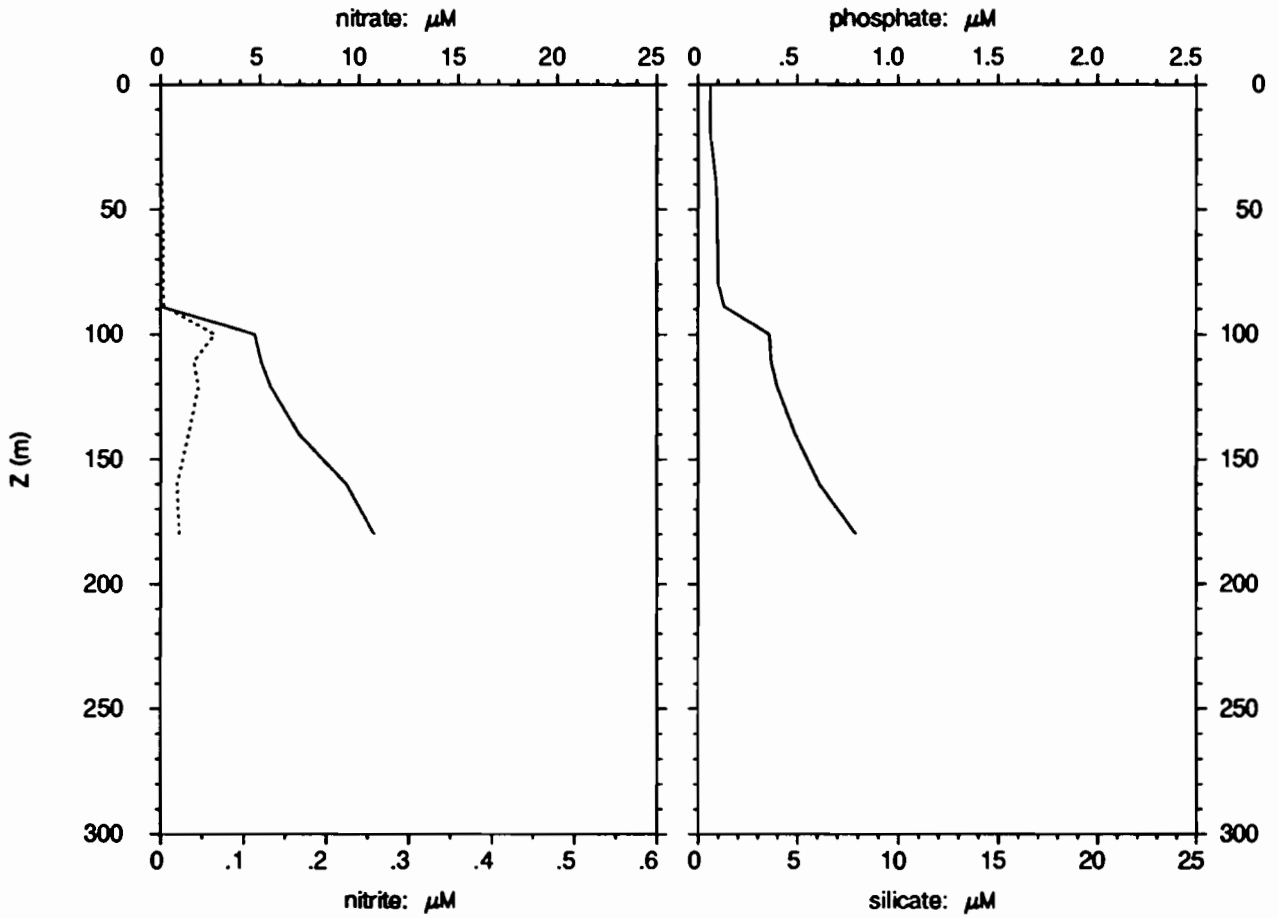
# EQUALIS - station192

1°45 S 156°10 E

2/12/92, 4h 4 TU

2/12/92, 14h 4 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.000	0.06	
19	0.001	0.000	0.06	
40	0.000	0.002	0.09	
60	0.001	0.003	0.10	
69	0.001	0.003	0.10	
79	0.001	0.003	0.10	
89	0.002	0.004	0.13	
100	4.74	0.065	0.36	
111	5.06	0.040	0.37	
121	5.54	0.046	0.40	
140	6.98	0.034	0.49	
160	9.36	0.020	0.61	
180	10.76	0.023	0.79	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.99	34.14	0.045	0.029	39.47
19	29.48	34.10	0.052	0.046	47.27
40	29.42	34.26	0.046	0.042	47.98
60	29.29	34.29	0.060	0.053	46.54
69	29.23	34.19			
79	28.69	34.07	0.138	0.109	44.14
89	27.52	34.98	0.195	0.180	48.04
100	24.93	34.93	0.345	0.424	55.14
111	24.22	35.23	0.100	0.195	66.04
121	23.64	35.14	0.062	0.129	67.48
140	22.38	34.82	0.043	0.093	68.23
160	20.47	34.91	0.021	0.075	78.14
180	18.56	35.44			

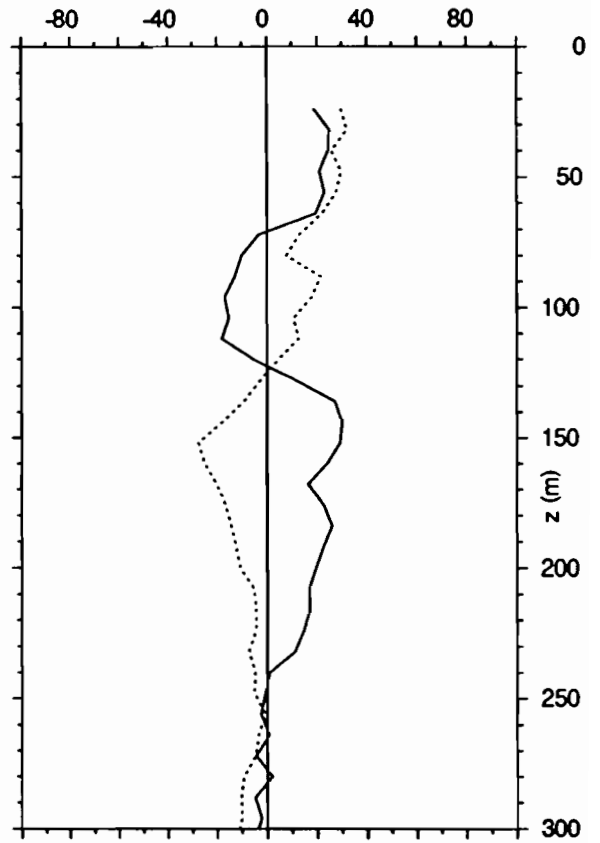
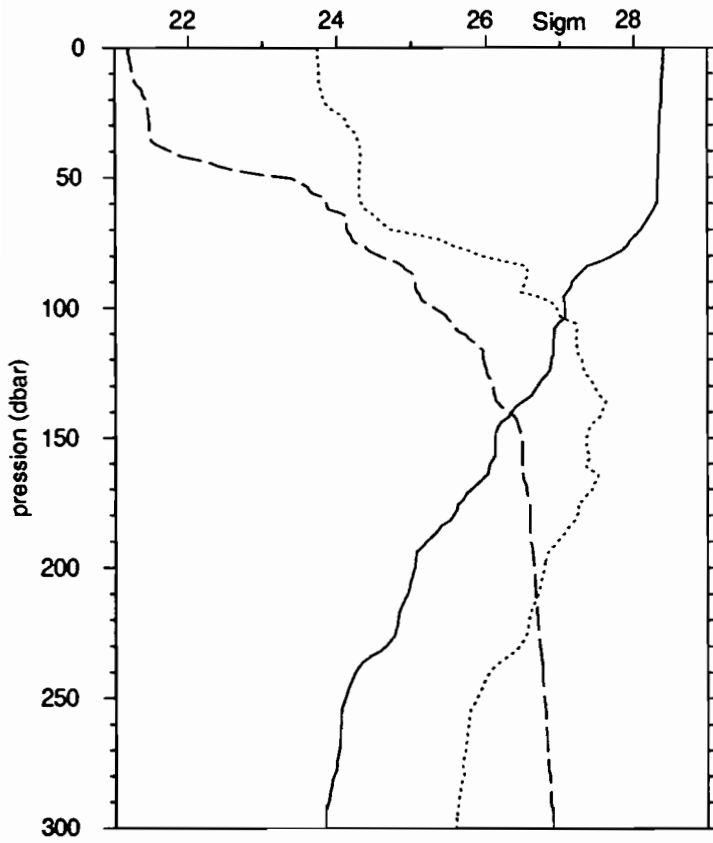
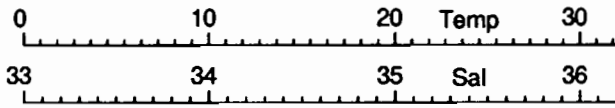


# EQUALIS -station 193

2/12/92, 7h 2 TU

1° 45 S 156° 10 E

2/12/92, 17h 2 locale

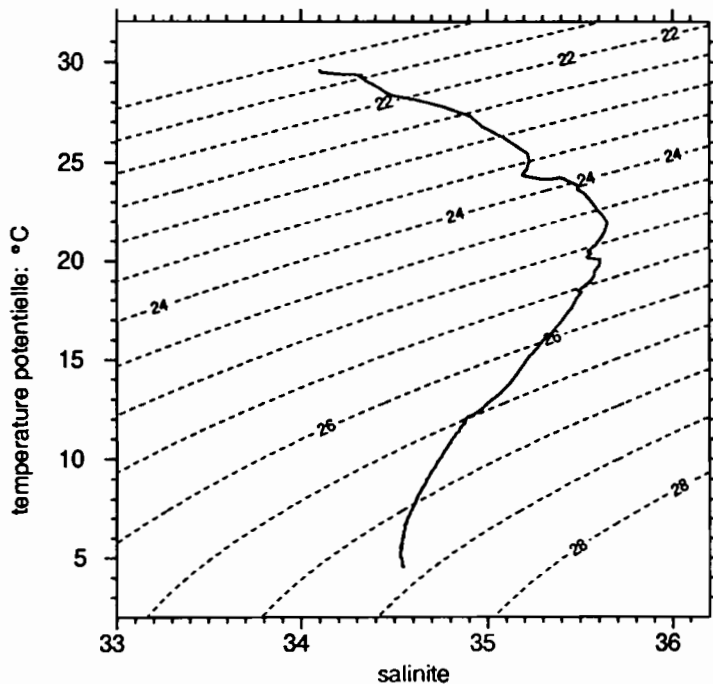


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.614	34.098
fin	996.0	4.609	34.546

	Z	U	V
debut	24.0	18.8	29.7
fin	392.0	-4.3	1.7



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.542	34.104		
20.0	29.476	34.129		
30.0	29.390	34.252	23.5	31.5
40.0	29.345	34.326	24.5	25.9
50.0	29.278	34.318	21.6	29.3
75.0	27.702	34.788	-5.8	11.1
100.0	24.260	35.381	-16.0	14.2
125.0	23.347	35.533	5.2	0.1
150.0	20.504	35.541	29.4	-25.1
200.0	16.153	35.314	19.5	-10.7
250.0	12.437	34.952	-1.1	-4.0
300.0	11.359	34.836	-3.6	-11.0
400.0	9.961	34.734		
500.0	8.604	34.649		
600.0	6.672	34.556		
700.0	6.179	34.545		
800.0	5.571	34.533		
900.0	4.845	34.543		

# EQUALIS - station193

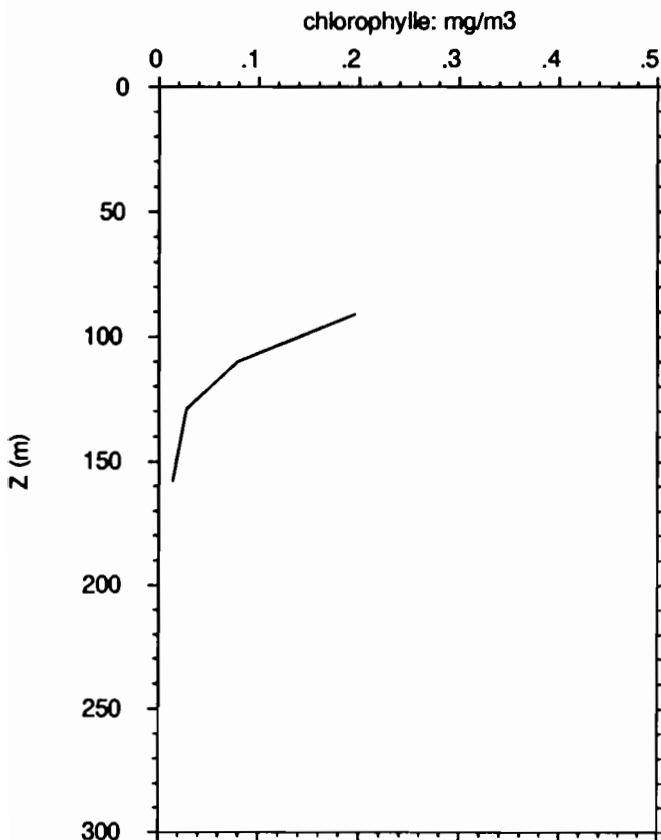
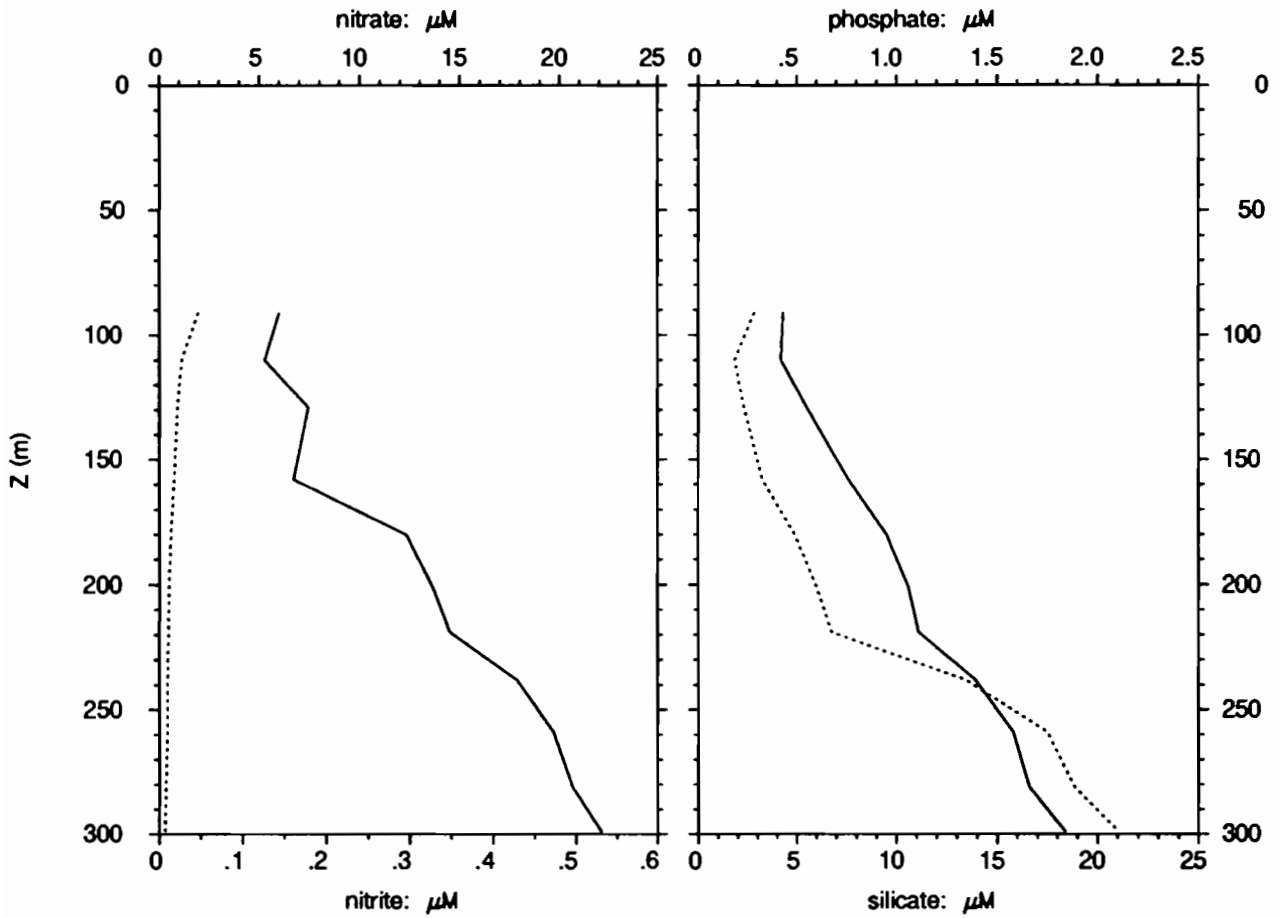
1°45 S 156°10 E

2/12/92, 7h 2 TU

2/12/92, 17h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
91	6.00	0.047	0.43	2.8
110	5.28	0.027	0.42	1.8
129	7.44	0.022	0.55	2.3
158	6.71	0.018	0.76	3.2
180	12.32	0.014	0.95	4.9
201	13.65	0.012	1.06	6.0
219	14.50	0.011	1.11	6.8
238	17.86	0.010	1.39	13.4
259	19.69	0.010	1.58	17.5
281	20.65	0.008	1.66	18.9
299	22.12	0.007	1.84	21.0
999	29.27	0.005	2.80	63.8

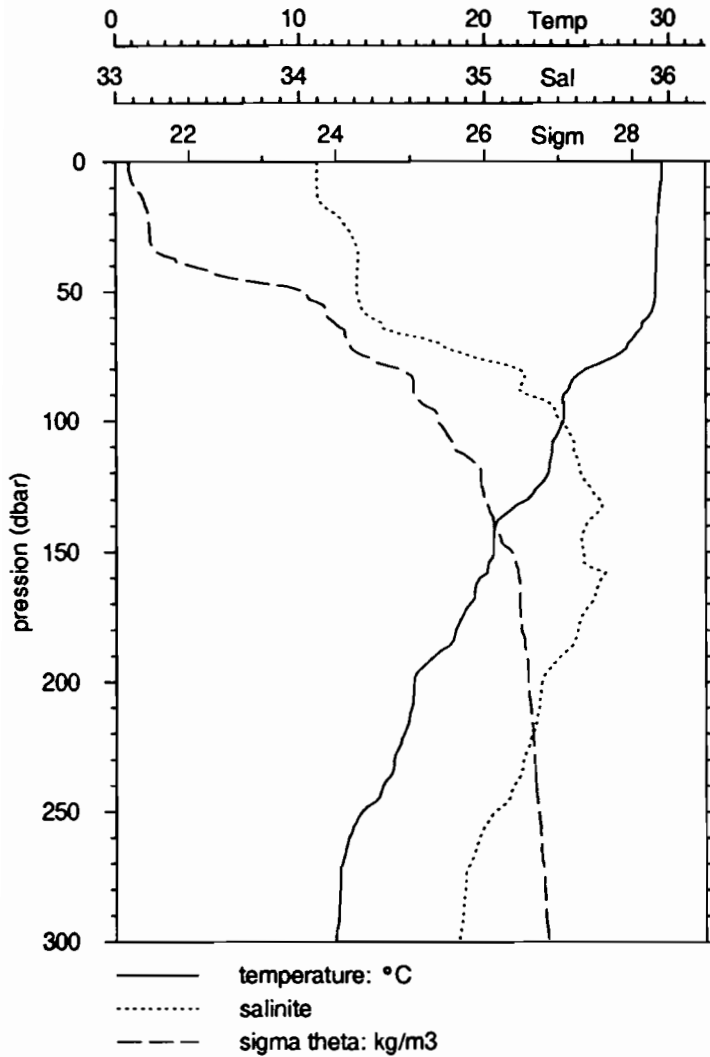
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
91	24.42	35.01	0.196	0.479	70.99
110	23.63	35.15	0.079	0.124	61.08
129	22.36	34.60	0.028	0.047	62.59
158	19.92	34.72	0.014	0.050	78.69
180	16.74	34.91			
201	15.72	34.62			
219	14.98	34.71			
238	12.78	34.80			
259	12.18	34.82			
281	11.83	34.69			
299	11.38	34.82			
999	4.61	34.54			

# EQUALIS -station 194

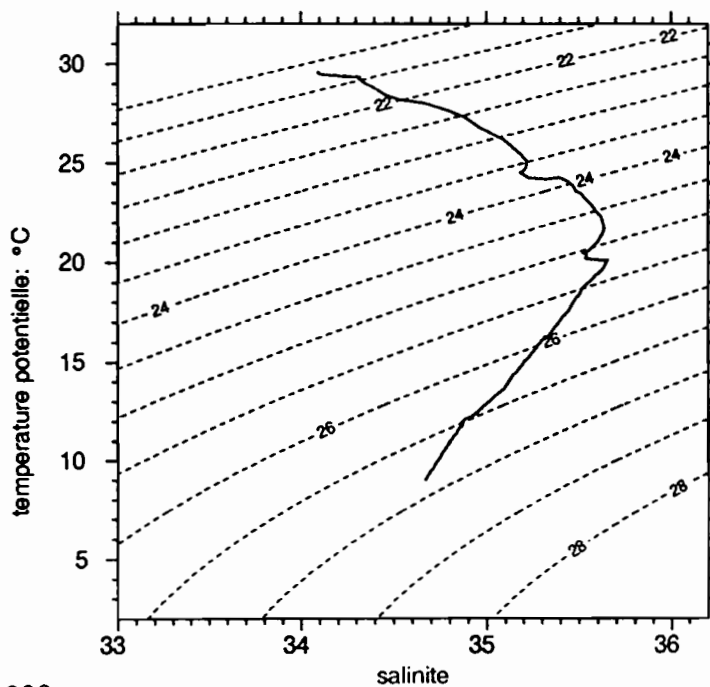
2/12/92, 7h54 TU

1°45 S 156°10 E

2/12/92, 17h54 locale



	P	T	S
debut	6.0	29.615	34.098
fin	498.0	9.054	34.668



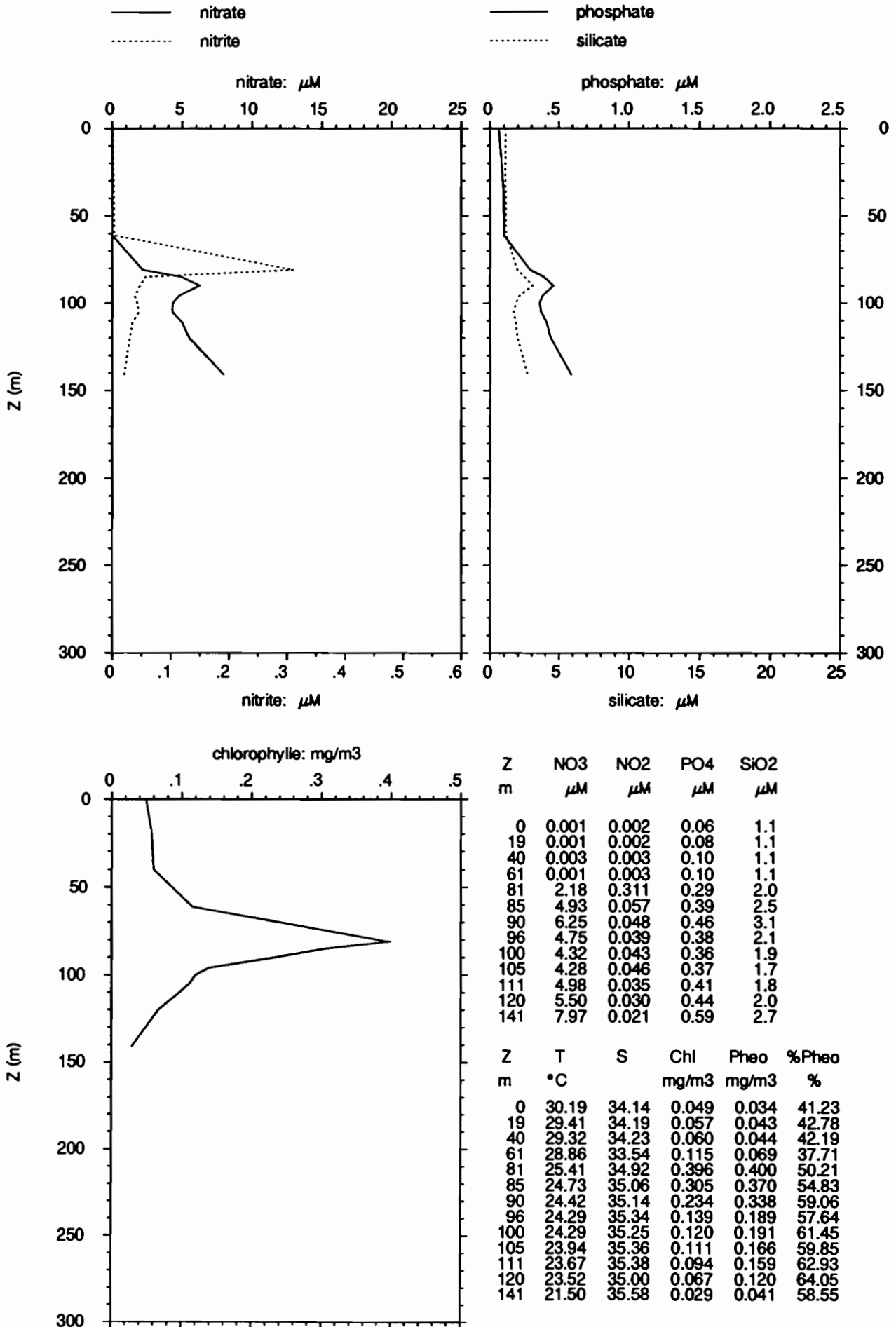
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.543	34.097		
20.0	29.408	34.198		
30.0	29.353	34.297		
40.0	29.302	34.317		
50.0	29.259	34.312		
75.0	27.052	34.926		
100.0	24.239	35.410		
125.0	22.925	35.566		
150.0	20.466	35.529		
200.0	16.181	35.309		
250.0	13.388	35.054		
300.0	11.971	34.862		
400.0	10.483	34.764		

# EQUALIS - station194

1°45 S 156°10 E

2/12/92, 7h54 TU

2/12/92, 17h54 locale

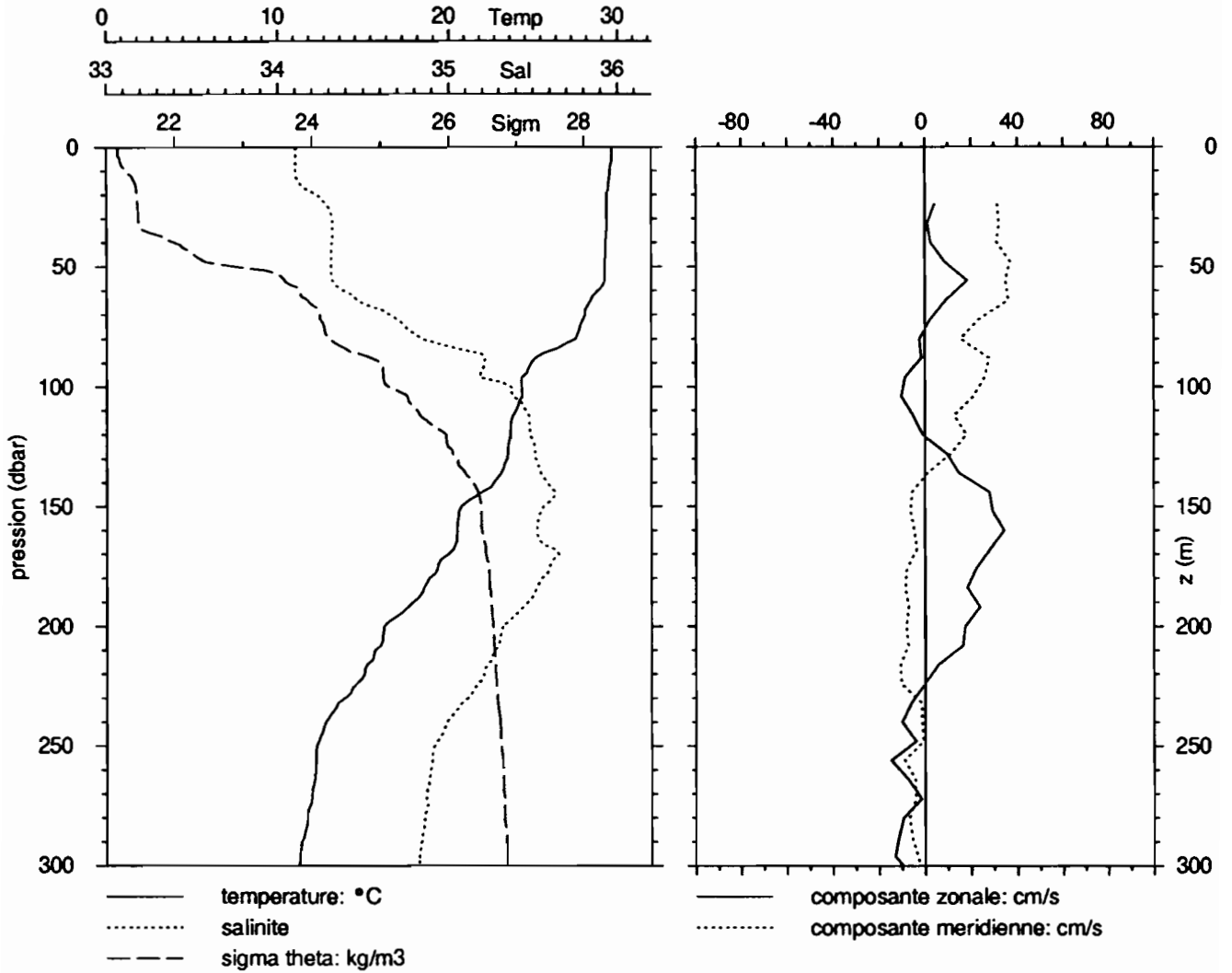


# EQUALIS -station 195

2/12/92, 10h 2 TU

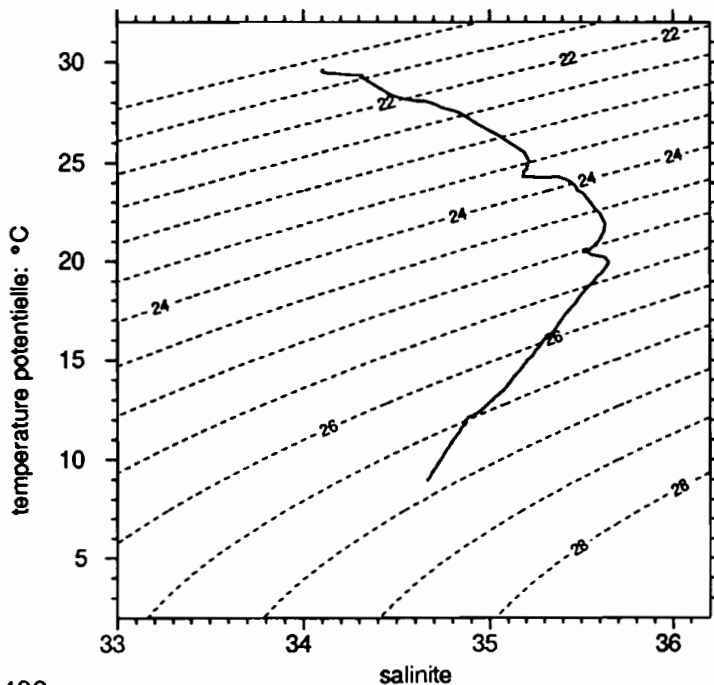
1°45 S 156°10 E

2/12/92, 20h 2 locale



	P	T	S
debut	6.0	29.653	34.104
fin	504.0	8.973	34.665

	Z	U	V
debut	24.0	4.2	31.5
fin	344.0	-16.0	-7.4



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.568	34.102		
20.0	29.367	34.230		
30.0	29.348	34.318	2.0	31.9
40.0	29.287	34.316	2.5	31.3
50.0	29.254	34.312	11.1	36.4
75.0	27.771	34.745	0.7	20.5
100.0	24.334	35.371	-9.4	23.5
125.0	23.518	35.507	5.7	13.8
150.0	20.718	35.560	28.9	-6.1
200.0	16.178	35.318	17.4	-8.1
250.0	12.259	34.914	-6.6	-2.8
300.0	11.257	34.822	-9.6	-2.1
400.0	9.973	34.730		
500.0	9.003	34.665		

# EQUALIS - station195

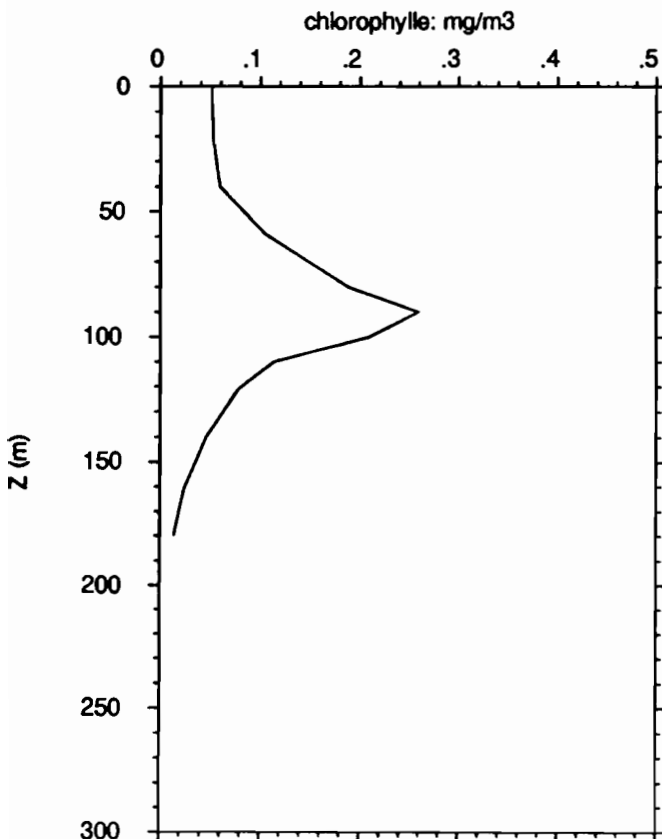
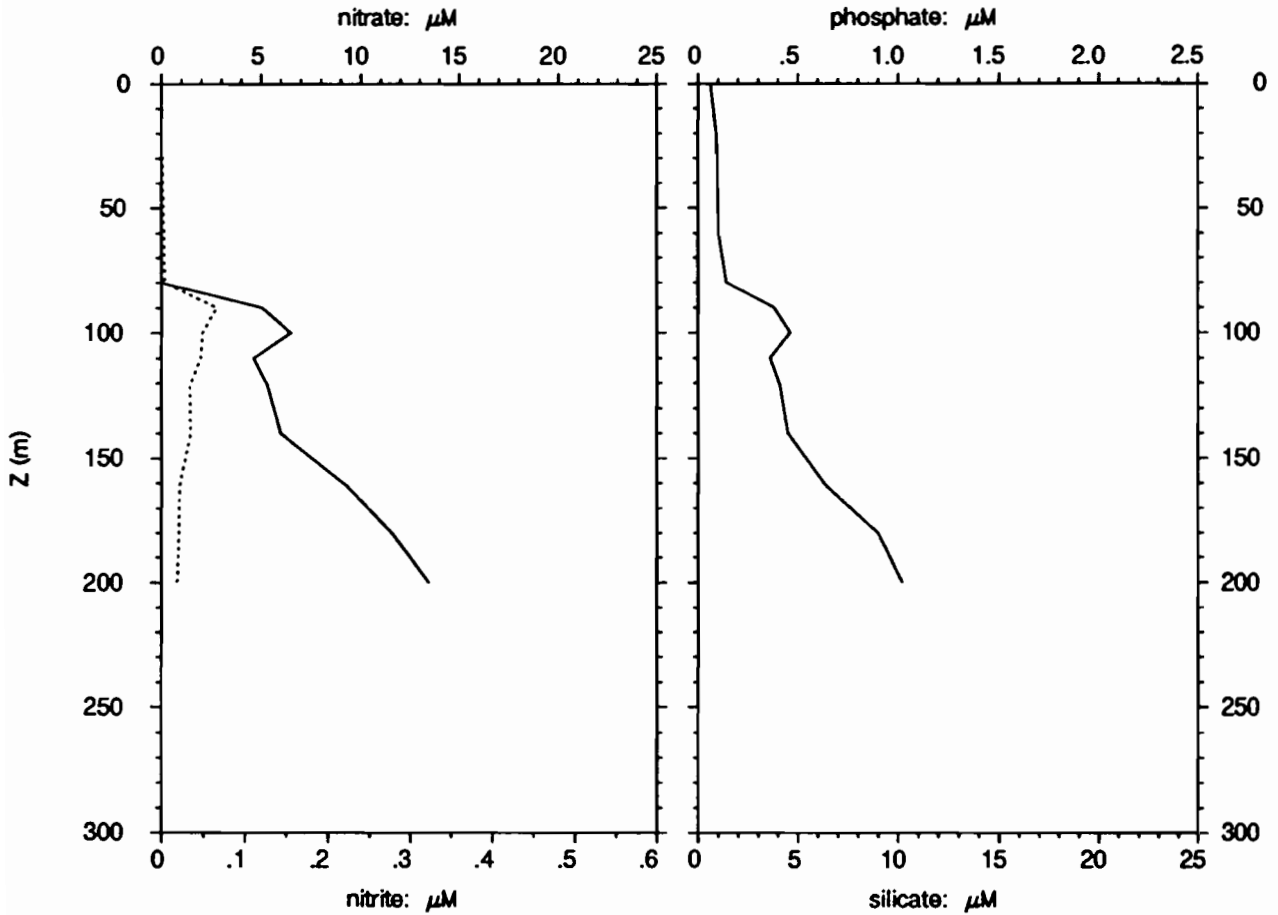
1°45 S 156°10 E

2/12/92, 10h 2 TU

2/12/92, 20h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.013	0.001	0.06	
20	0.003	0.001	0.09	
40	0.002	0.002	0.10	
59	0.001	0.003	0.10	
80	0.002	0.004	0.14	
90	5.04	0.066	0.38	
100	6.48	0.049	0.46	
110	4.62	0.047	0.36	
121	5.32	0.034	0.41	
140	5.98	0.035	0.45	
161	9.28	0.022	0.64	
180	11.57	0.021	0.90	
200	13.45	0.019	1.02	

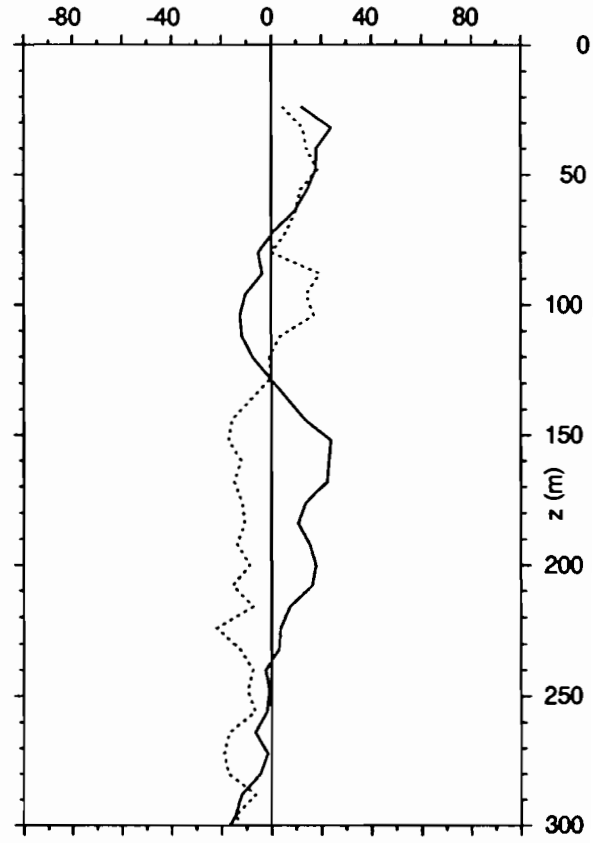
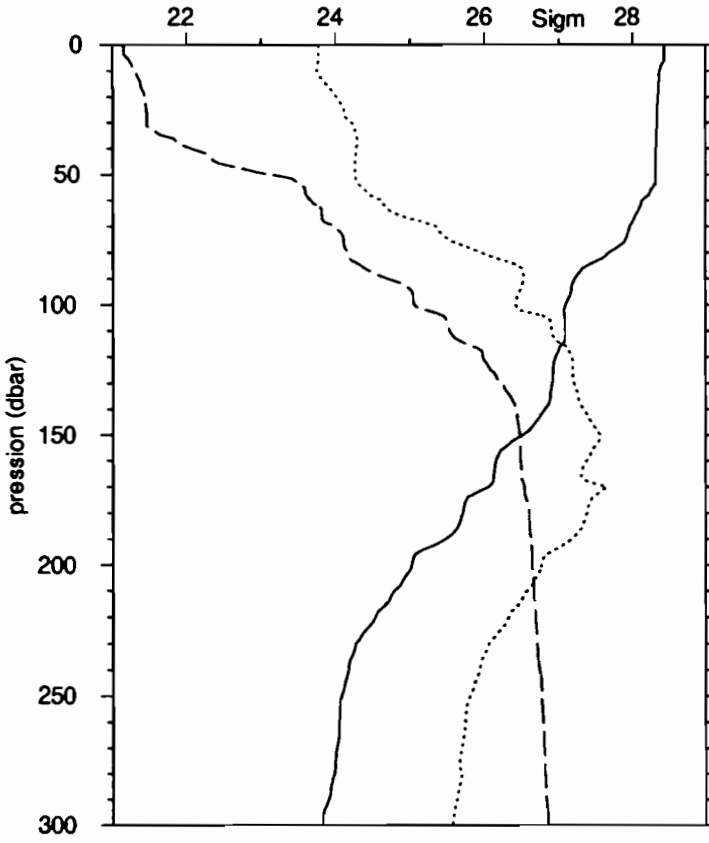
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.94	34.00	0.051	0.018	26.66
20	29.37	34.24	0.052	0.014	21.62
40	29.28	34.26	0.059	0.048	44.77
59	28.76	34.29	0.105	0.078	42.49
80	27.01	34.17	0.188	0.229	54.91
90	25.03	35.05	0.259	0.332	56.21
100	24.54	35.06	0.209	0.308	59.64
110	24.29	35.08	0.114	0.161	58.53
121	0.00	35.42	0.078	0.127	62.00
140	0.00	34.93	0.046	0.100	68.61
161	20.50	35.03	0.024	0.045	65.42
180	18.70	35.50	0.014	0.028	65.98
200	16.04	35.27			

# EQUALIS -station 197

2/12/92, 12h59 TU

1°45 S 156°10 E

2/12/92, 22h59 locale

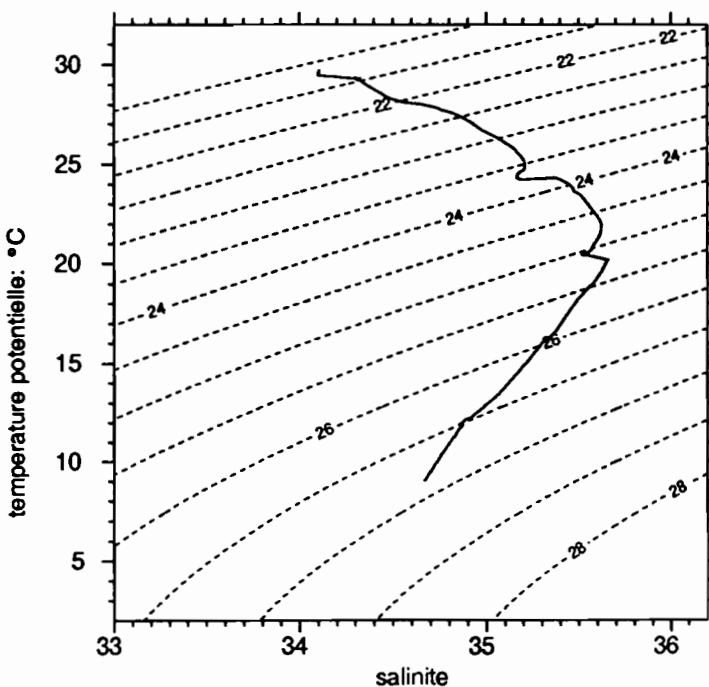


— temperature: °C  
..... salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.724	34.110
fin	502.0	9.066	34.668

	Z	U	V
debut	24.0	12.2	4.6
fin	344.0	-18.9	-15.0



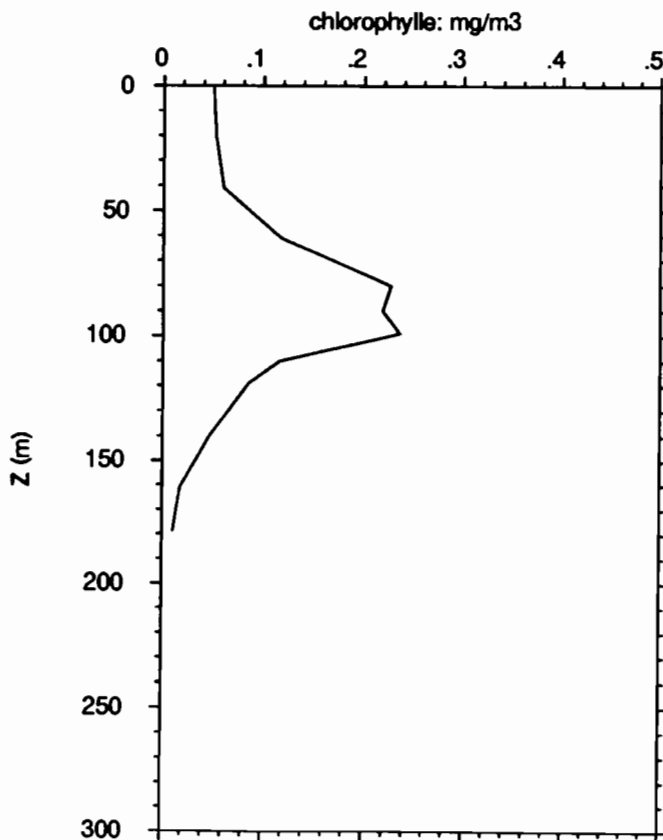
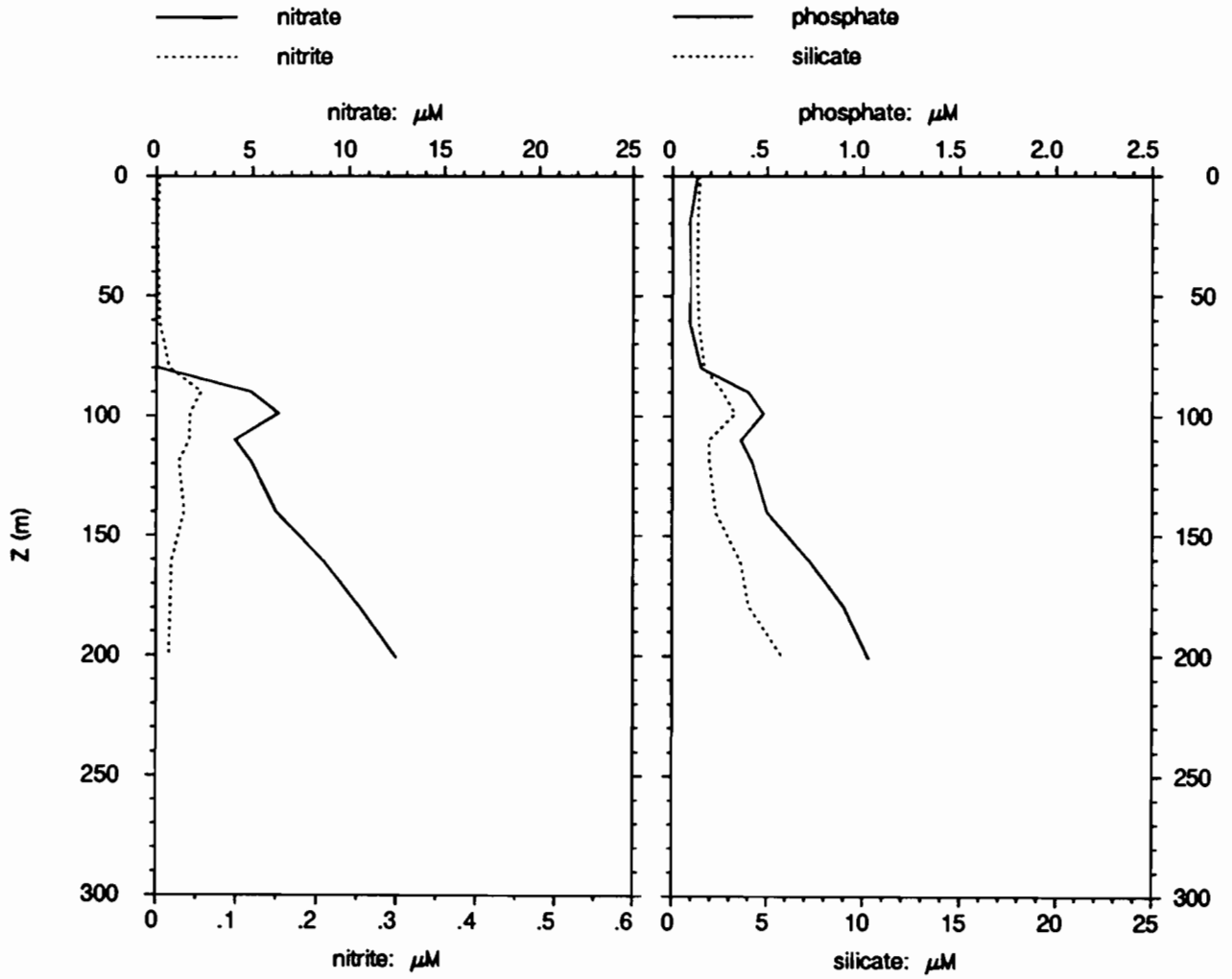
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.483	34.101		
20.0	29.397	34.207		
30.0	29.335	34.287	21.0	10.6
40.0	29.292	34.312	18.0	14.1
50.0	29.254	34.306	16.9	16.8
75.0	27.602	34.810	-1.4	3.9
100.0	24.348	35.165	-11.4	15.5
125.0	23.675	35.474	-3.1	15.5
150.0	22.033	35.624	21.2	-16.9
200.0	16.075	35.304	17.9	-8.6
250.0	12.313	34.919	-1.1	-8.8
300.0	11.272	34.823	-16.7	-12.5
400.0	10.157	34.744		
500.0	9.074	34.669		

# EQUALIS - station197

1°45 S 156°10 E

2/12/92, 12h59 TU

2/12/92, 22h59 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.006	0.004	0.13	1.4
20	0.002	0.002	0.09	1.3
41	0.001	0.003	0.10	1.3
61	0.001	0.004	0.09	1.4
80	0.067	0.016	0.15	1.7
90	4.92	0.056	0.40	2.6
99	6.35	0.042	0.48	3.3
110	4.10	0.041	0.36	1.9
119	4.94	0.028	0.42	1.9
140	6.23	0.035	0.50	2.3
161	8.72	0.019	0.73	3.6
179	10.48	0.018	0.90	4.0
201	12.47	0.016	1.03	5.9

Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
0	29.89	34.14	0.050	0.017	25.75
20	29.35	34.22	0.052	0.046	47.18
41	29.26	34.27	0.060	0.050	45.34
61	28.50	34.44	0.118	0.097	45.32
80	26.89	34.18	0.227	0.237	51.06
90	24.73	35.04	0.219	0.332	60.29
99	24.30	35.30	0.236	0.297	55.74
110	24.14	35.14	0.117	0.168	59.03
119	23.68	35.46	0.086	0.137	61.51
140	22.79	35.02	0.047	0.110	69.87
161	20.50	35.35	0.018	0.063	77.72
179	18.87	35.51	0.011	0.051	82.36
201	16.03	35.27			

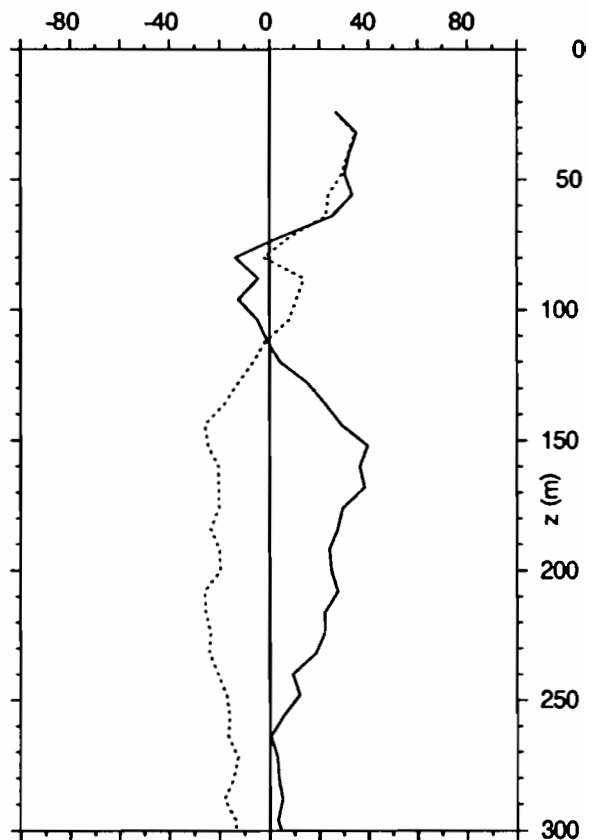
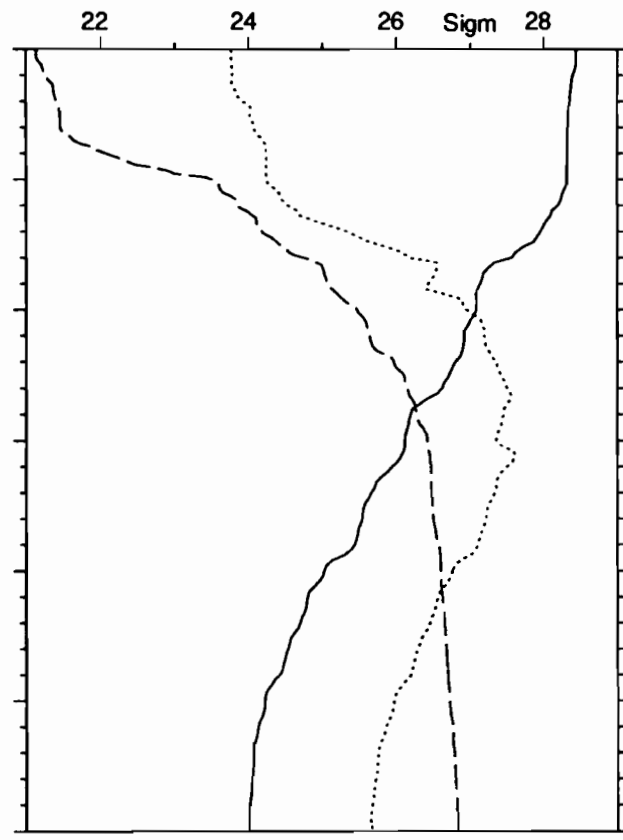


# EQUALIS -station 198

2/12/92, 16h 1 TU

1°45 S 156°10 E

3/12/92, 2h 1 locale

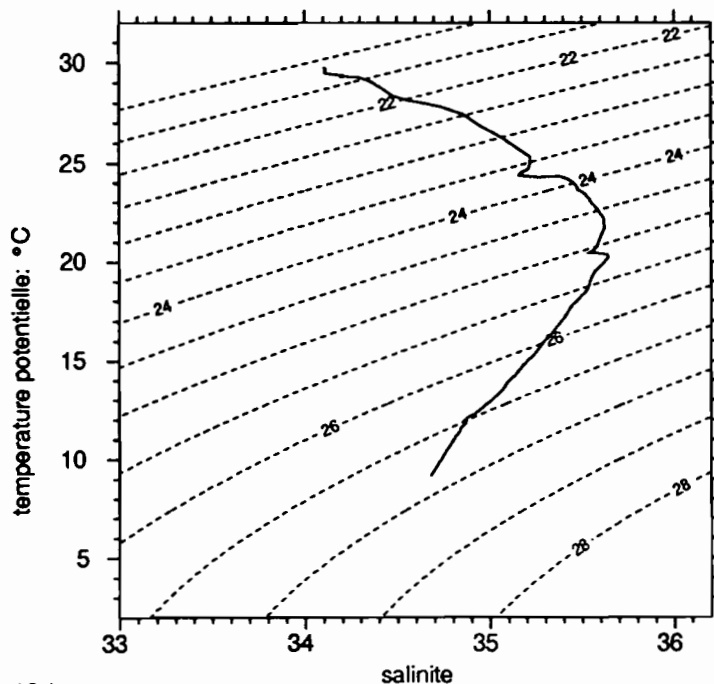


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.755	34.105
fin	500.0	9.236	34.680

	Z	U	V
debut	24.0	26.9	26.6
fin	352.0	8.6	6.2



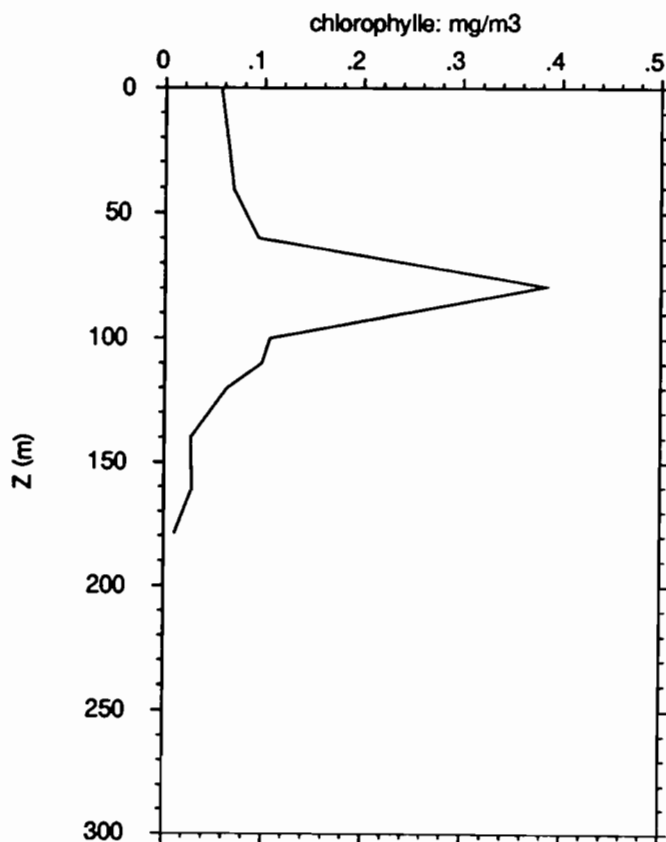
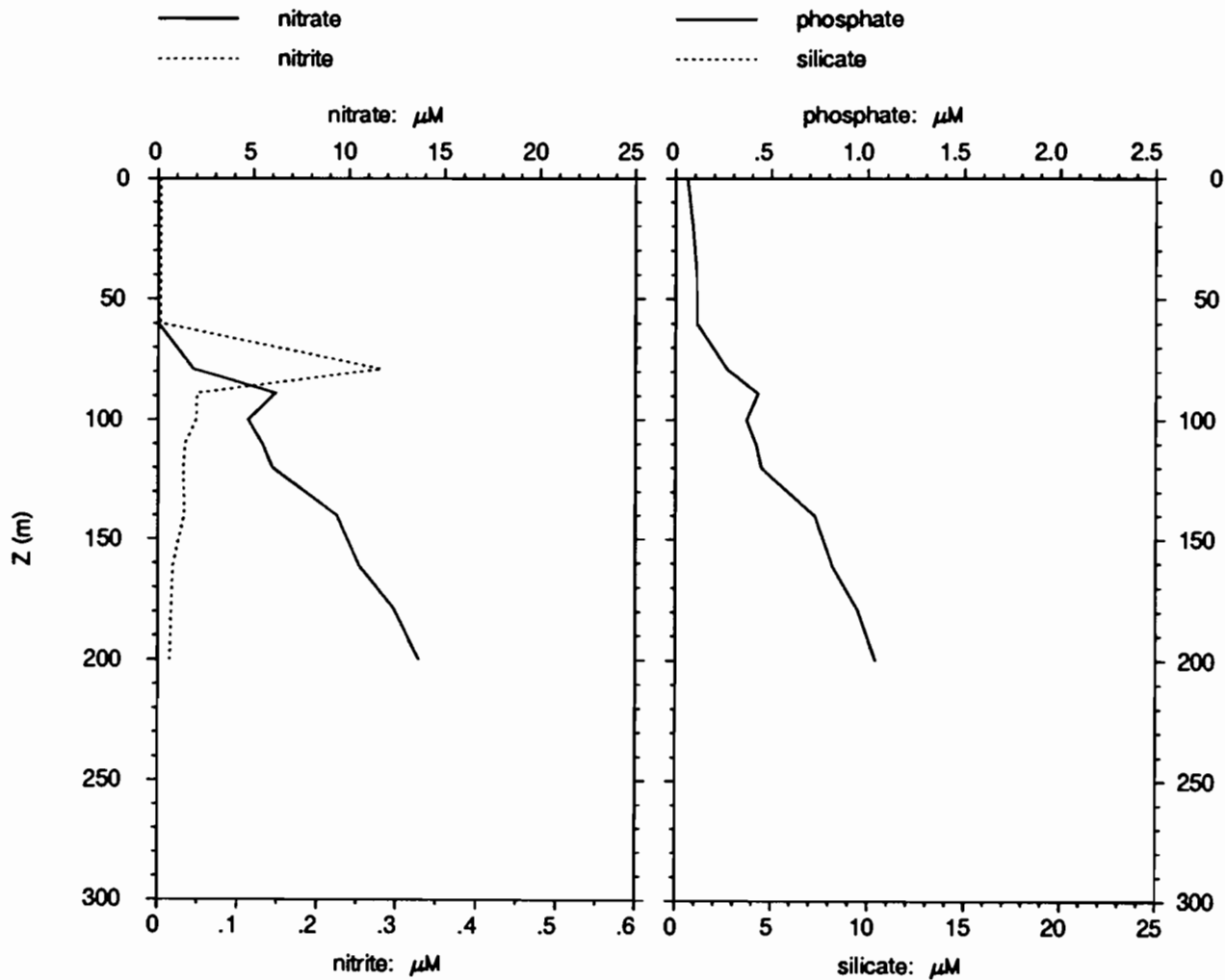
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.568	34.110		
20.0	29.411	34.167		
30.0	29.319	34.227	33.2	32.7
40.0	29.281	34.294	32.4	31.9
50.0	29.258	34.296	31.2	27.9
75.0	27.178	34.901	-2.3	4.3
100.0	24.332	35.381	-8.5	9.4
125.0	22.855	35.565	11.1	-10.1
150.0	20.470	35.540	37.0	-24.9
200.0	16.088	35.303	25.0	-19.6
250.0	12.874	34.988	10.5	-16.9
300.0	11.977	34.869	4.7	-13.5
400.0	10.453	34.762		
500.0	9.236	34.680		

# EQUALIS - station198

1°45 S 156°10 E

2/12/92, 16h 1 TU

3/12/92, 2h 1 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.003	0.06	
21	0.001	0.003	0.09	
41	0.001	0.003	0.11	
60	0.001	0.003	0.11	
79	1.85	0.281	0.27	
89	6.15	0.049	0.43	
100	4.71	0.048	0.37	
110	5.46	0.034	0.42	
120	5.99	0.032	0.45	
140	9.35	0.033	0.73	
161	10.54	0.019	0.82	
179	12.39	0.017	0.95	
200	13.67	0.015	1.04	

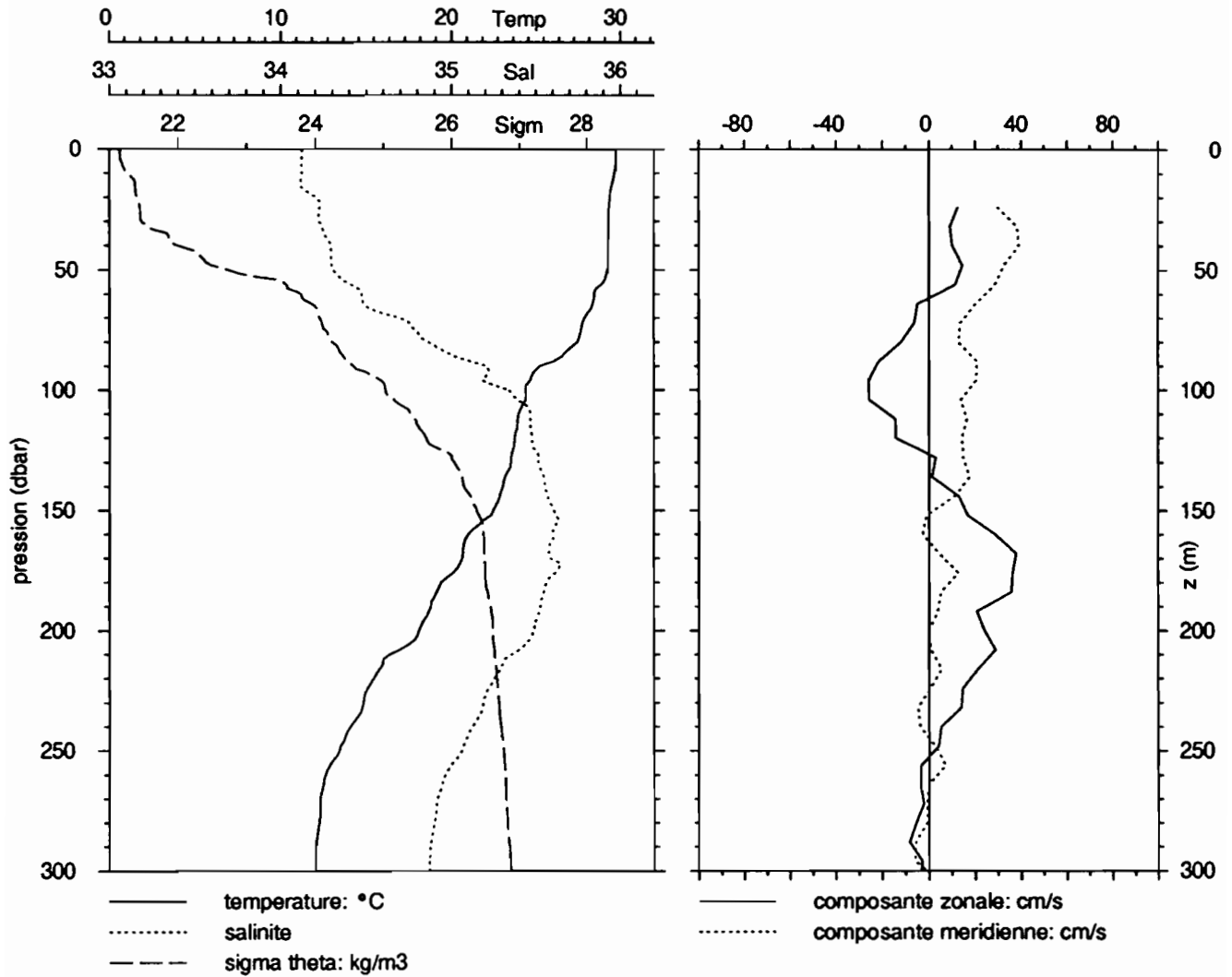
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.86	34.10	0.056	0.036	38.90
21	29.36	34.20	0.063	0.044	41.07
41	29.27	34.24	0.069	0.045	39.65
60	28.63	34.25	0.094	0.083	46.85
79	26.30	34.30	0.384	0.459	54.45
89	24.66	35.00	0.254	0.285	52.87
100	24.32	35.04	0.106	0.155	59.32
110	23.69	35.30	0.098	0.137	58.43
120	23.48	35.18	0.063	0.122	65.94
140	21.08	35.32	0.027	0.041	60.75
161	19.88	34.78	0.028	0.049	63.83
179	18.10	34.98	0.011	0.056	83.05
200	16.05	35.27			

# EQUALIS -station 199

2/12/92, 19h 2 TU

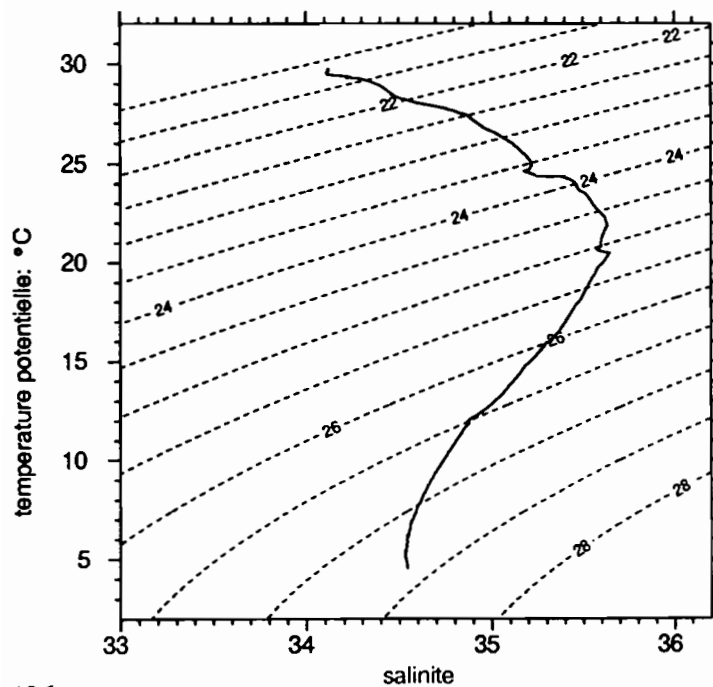
1°45 S 156°10 E

3/12/92, 5h 2 locale



	P	T	S
debut	4.0	29.750	34.122
fin	998.0	4.615	34.546

	Z	U	V
debut	24.0	12.6	29.8
fin	376.0	-3.4	-14.9



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.649	34.120		
20.0	29.393	34.203		
30.0	29.305	34.221	10.1	36.2
40.0	29.275	34.290	10.2	39.0
50.0	29.251	34.302	13.8	31.7
75.0	27.679	34.786	-8.4	13.3
100.0	24.372	35.340	-25.8	17.0
125.0	23.608	35.495	-3.4	14.6
150.0	22.447	35.605	15.8	1.9
200.0	18.080	35.483	24.1	0.0
250.0	13.382	35.058	2.3	3.9
300.0	11.974	34.870	-3.3	-0.7
400.0	10.237	34.754		
500.0	8.992	34.669		
600.0	6.821	34.559		
700.0	6.249	34.548		
800.0	5.636	34.537		
900.0	4.941	34.538		

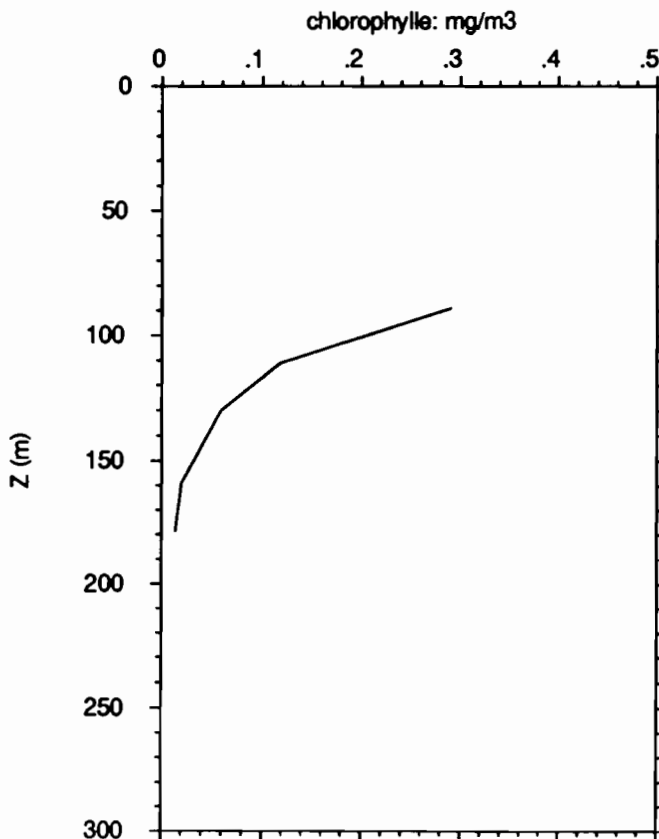
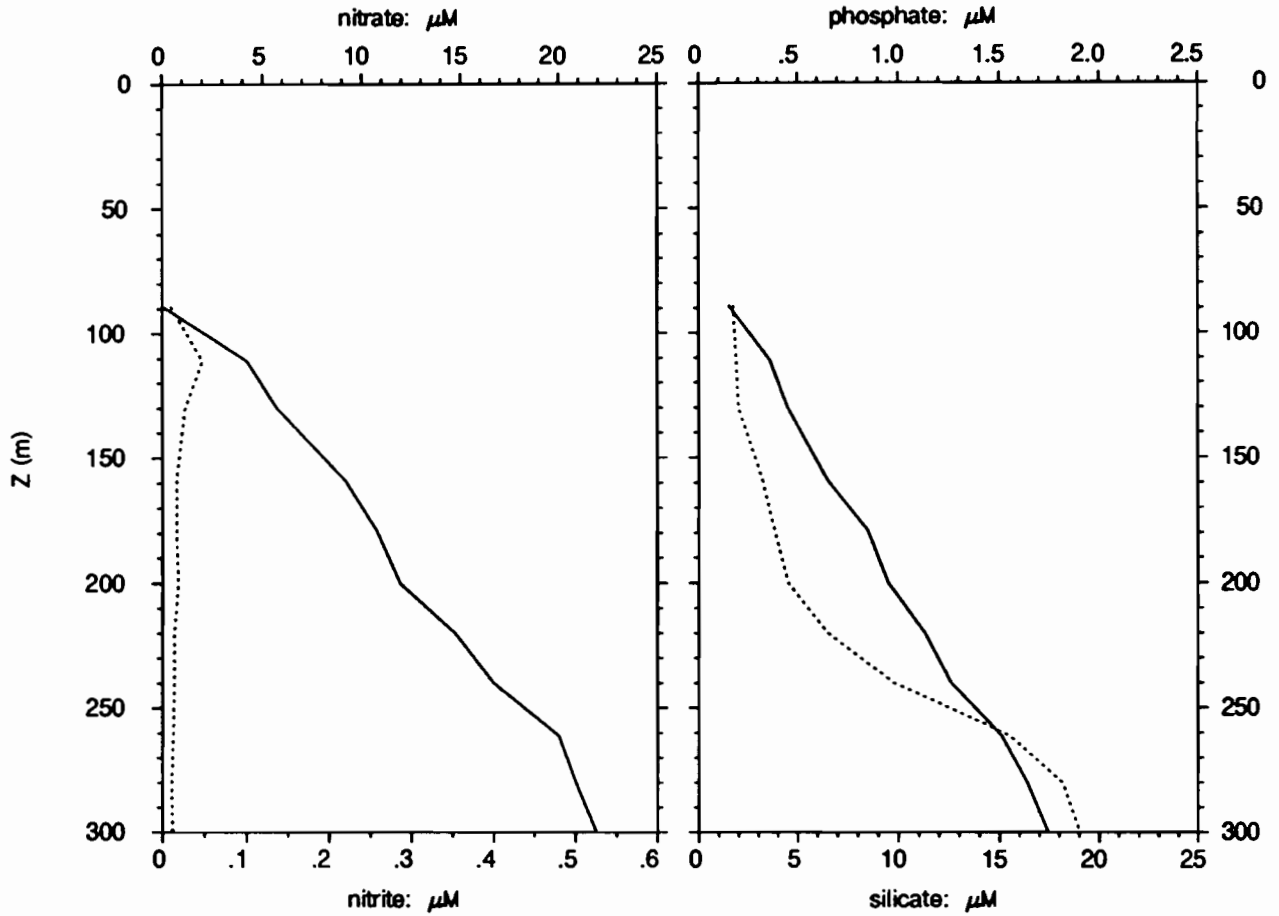
# EQUALIS - station199

1°45 S 156°10 E

2/12/92, 19h 2 TU

3/12/92, 5h 2 locale

— nitrate                      — phosphate  
 - - - nitrite                    - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
89	0.023	0.010	0.15	1.7
111	4.20	0.048	0.36	1.9
130	5.70	0.027	0.45	2.0
159	9.16	0.017	0.65	3.2
179	10.75	0.017	0.85	3.8
200	11.93	0.019	0.95	4.5
220	14.70	0.014	1.13	6.5
240	16.67	0.014	1.26	9.8
261	19.99	0.013	1.51	15.5
280	20.86	0.011	1.64	18.2
301	21.94	0.012	1.75	19.1
1001	32.23	0.006	2.90	63.6

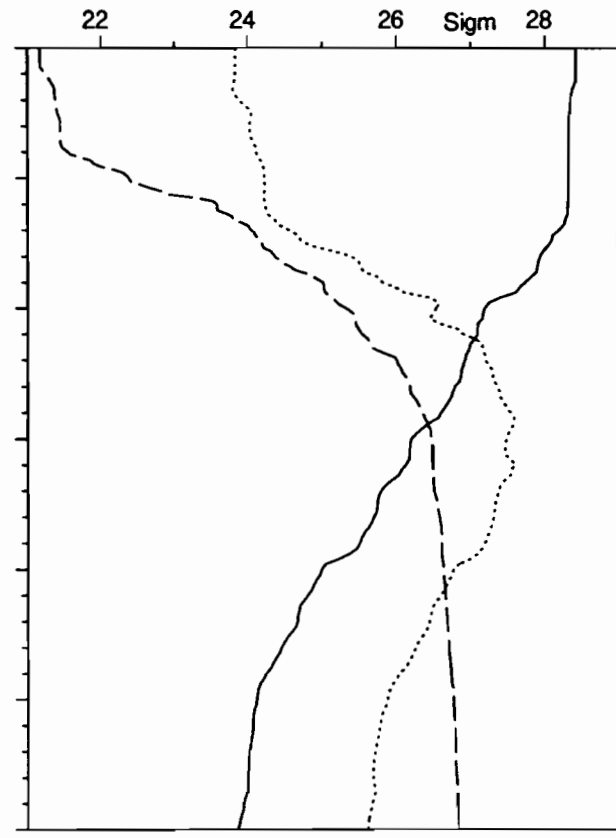
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
89	26.68	34.11	0.291	0.328	52.99
111	24.15	34.97	0.118	0.157	57.11
130	23.34	35.00	0.059	0.118	66.91
159	20.68	35.09	0.020	0.038	64.86
179	19.20	35.02	0.014	0.036	71.92
200	17.96	34.74			
220	15.18	34.69			
240	13.79	34.42			
261	12.38	34.78			
280	12.04	34.70			
301	11.71	34.84			
1001	4.62	34.54			

# EQUALIS -station 200

2/12/92, 20h 1 TU

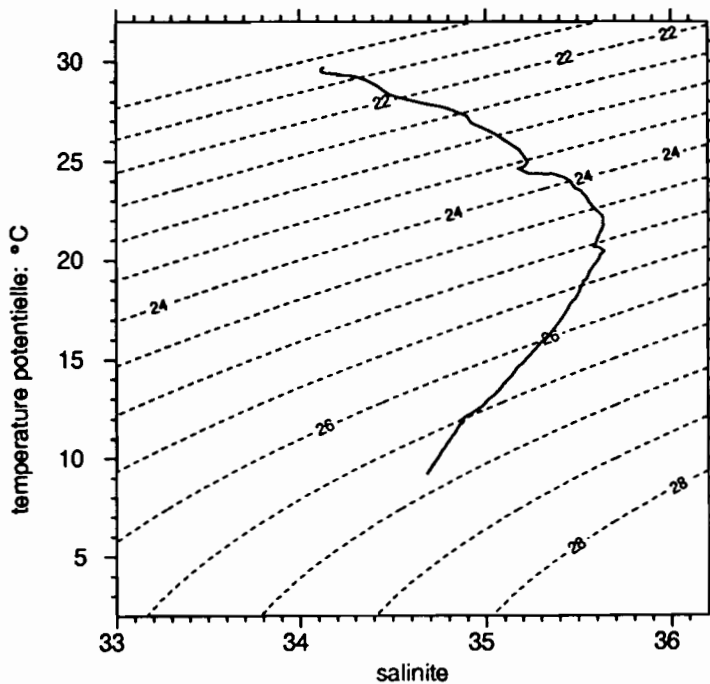
1°45 S 156°10 E

3/12/92, 6h 1 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	4.0	29.719	34.133
fin	500.0	9.253	34.682



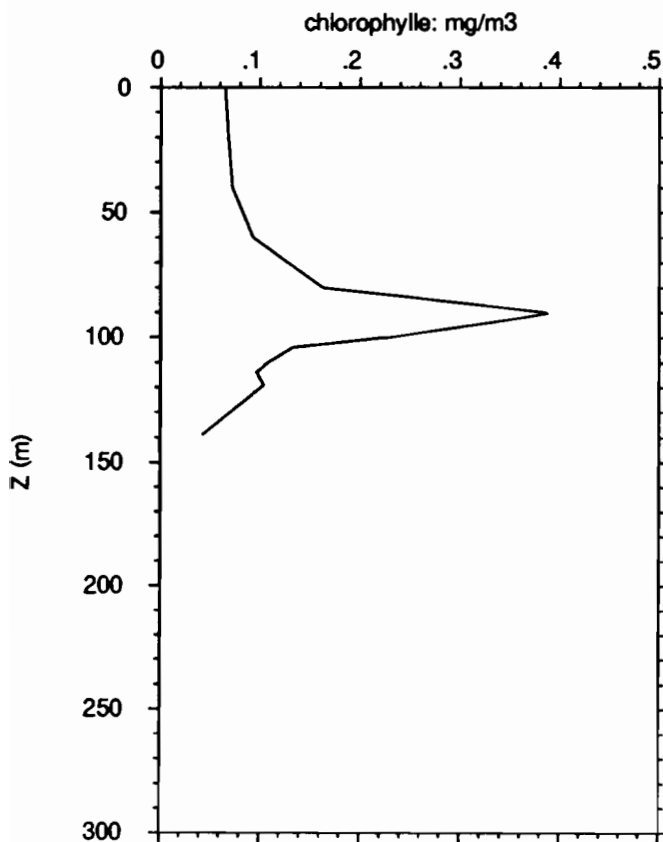
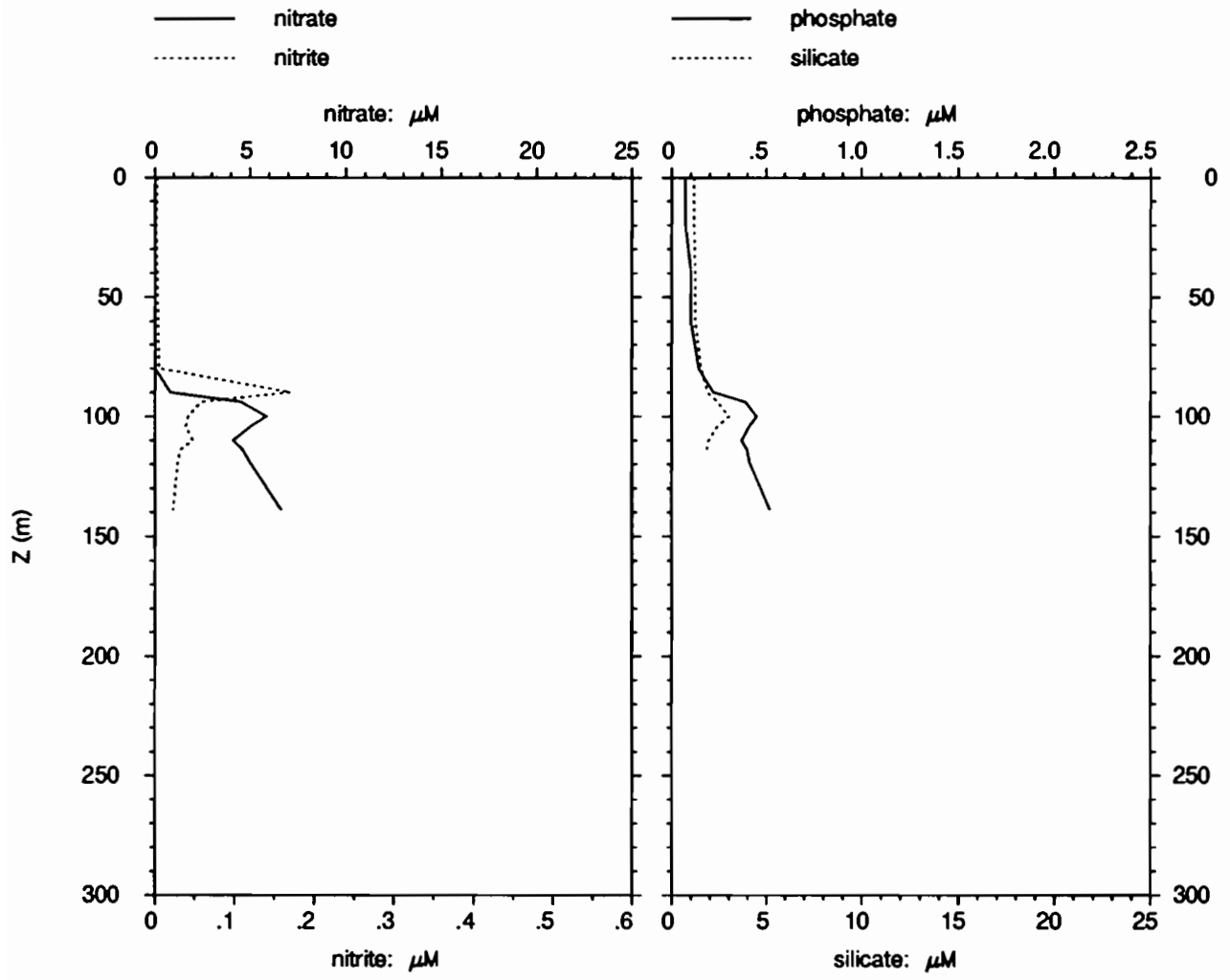
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.715	34.132		
20.0	29.411	34.154		
30.0	29.300	34.211		
40.0	29.296	34.247		
50.0	29.268	34.290		
75.0	28.279	34.515		
100.0	24.767	35.214		
125.0	23.494	35.520		
150.0	20.799	35.594		
200.0	15.951	35.307		
250.0	12.462	34.947		
300.0	11.431	34.840		
400.0	10.203	34.750		
500.0	9.253	34.682		

# EQUALIS - station200

1°45 S 156°10 E

2/12/92, 20h 1 TU

3/12/92, 6h 1 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.003	0.07	1.2
19	0.001	0.002	0.07	1.2
40	0.001	0.003	0.10	1.2
60	0.000	0.004	0.10	1.2
80	0.001	0.005	0.14	1.5
90	0.811	0.171	0.22	1.9
94	4.52	0.058	0.39	2.4
100	5.85	0.042	0.45	3.0
104	5.04	0.039	0.41	2.4
110	4.10	0.048	0.37	1.9
114	4.62	0.032	0.40	1.8
119	4.97	0.029	0.41	
139	6.62	0.023	0.52	

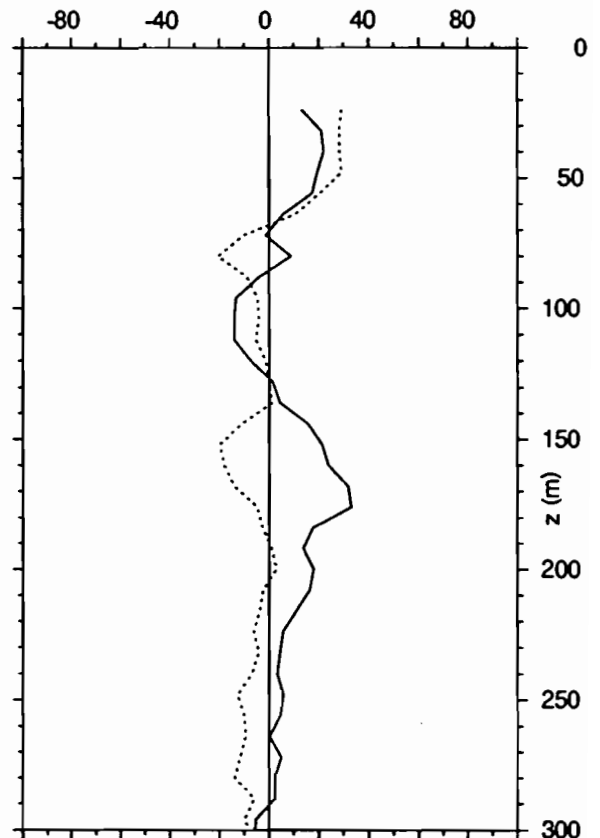
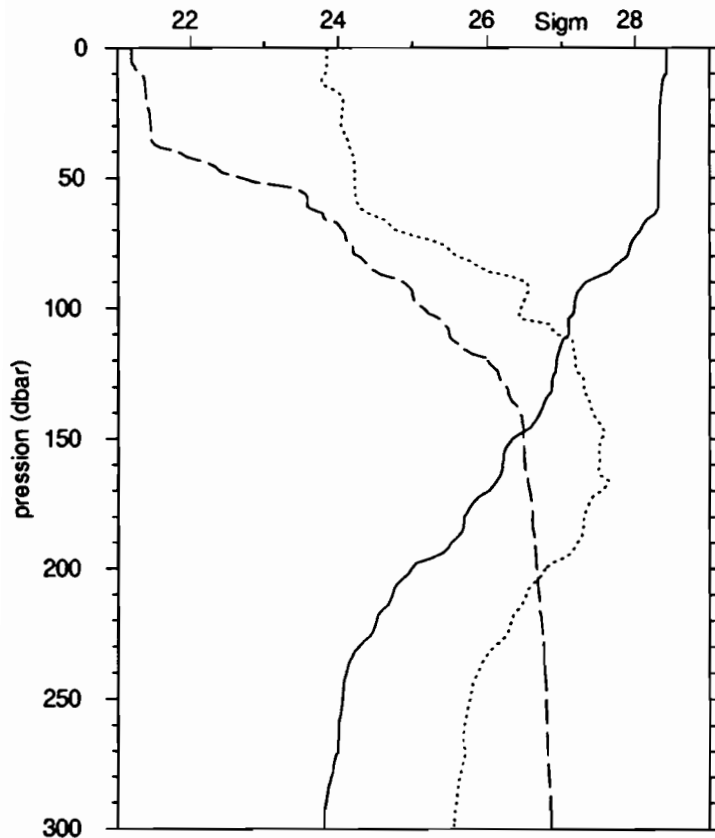
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.83	34.16	0.065	0.066	50.37
19	29.40	34.15	0.068	0.041	37.90
40	29.30	34.22	0.072	0.049	40.57
60	29.24	33.76	0.093	0.059	39.08
80	27.60	34.34	0.163	0.138	45.96
90	25.73	34.97	0.386	0.403	51.12
94	24.86	35.08			
100	24.62	35.08	0.223	0.271	54.90
104	24.39	35.29	0.133	0.186	58.42
110	24.12	35.33	0.108	0.149	58.01
114	23.90	35.29	0.097	0.140	59.06
119	23.68	35.20	0.104	0.147	58.53
139	22.49	35.56	0.043	0.082	65.47

# EQUALIS -station 201

1°45 S 156°10 E

2/12/92, 22h 0 TU

3/12/92, 8h 0 locale

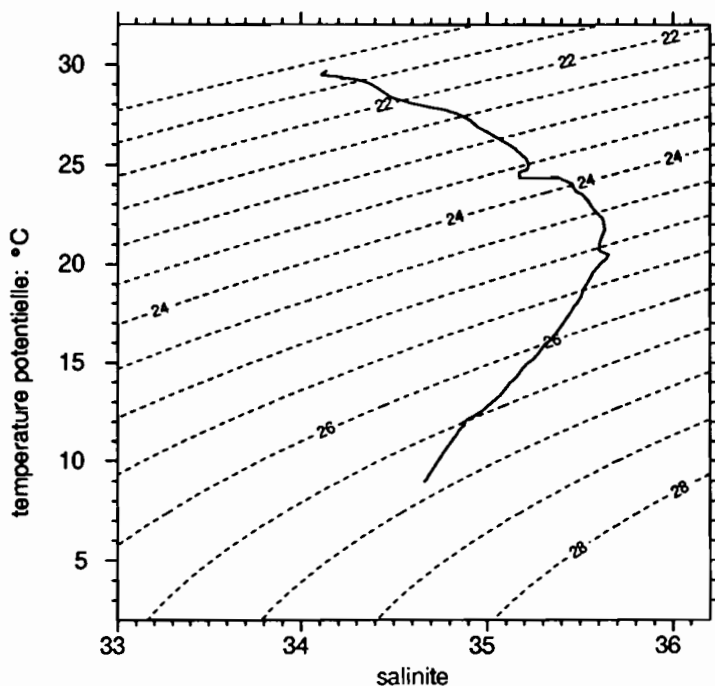


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.689	34.138
fin	502.0	8.982	34.666

	Z	U	V
debut	24.0	13.3	29.2
fin	408.0	16.6	-14.2



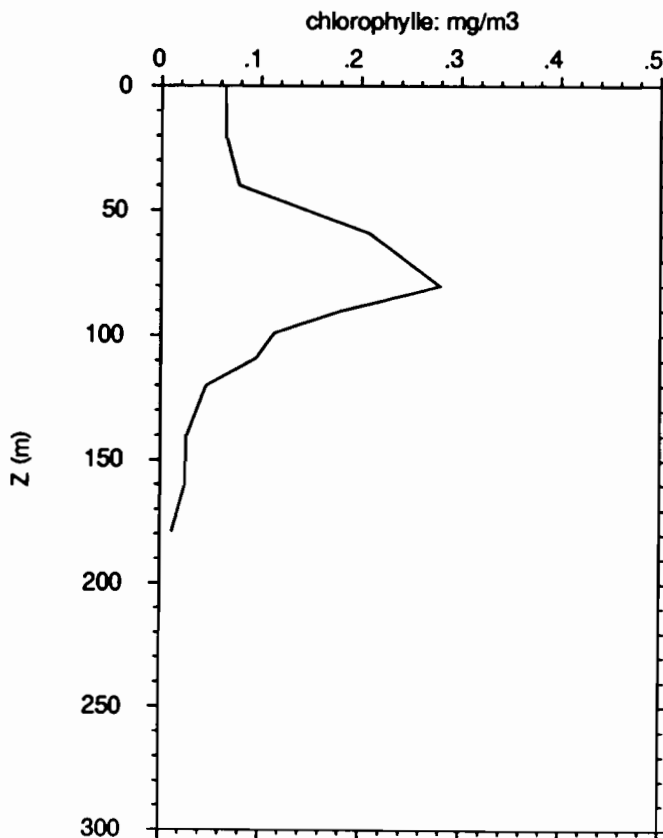
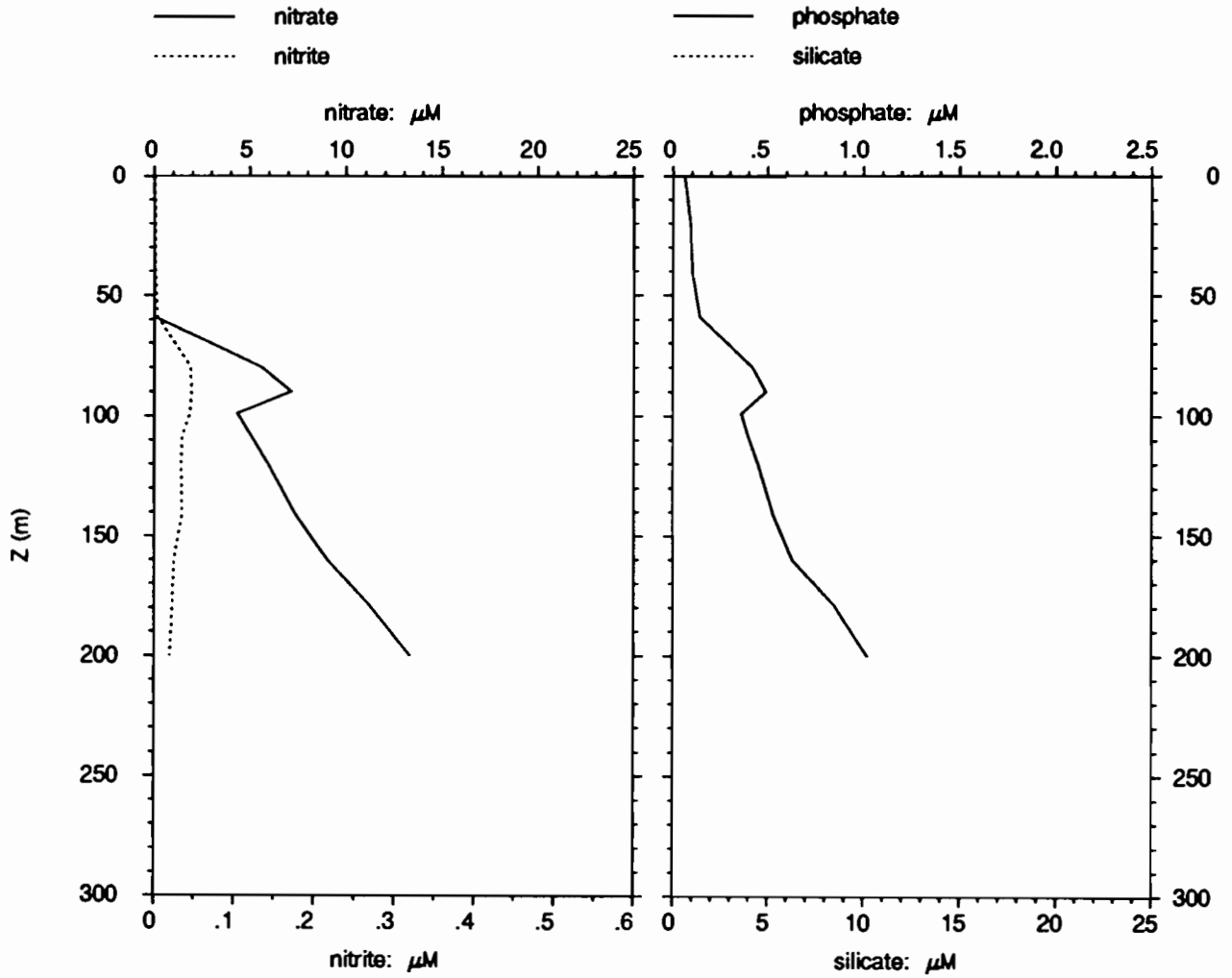
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.649	34.132		
20.0	29.361	34.226		
30.0	29.278	34.215	19.2	28.6
40.0	29.294	34.273	22.1	28.5
50.0	29.259	34.288	19.0	27.1
75.0	27.779	34.741	2.5	-14.1
100.0	24.676	35.179	-13.7	-4.4
125.0	23.594	35.498	-1.8	-4.4
150.0	21.340	35.615	19.9	-17.6
200.0	15.948	35.311	18.0	3.0
250.0	12.222	34.907	5.6	-11.9
300.0	11.212	34.823	-5.6	-7.8
400.0	9.815	34.722	25.0	-13.4
500.0	9.013	34.666		

# EQUALIS - station201

1°45 S 156°10 E

2/12/92, 22h 0 TU

3/12/92, 8h 0 locale



Z	NO3	NO2	PO4	SiO2
m	$\mu\text{M}$	$\mu\text{M}$	$\mu\text{M}$	$\mu\text{M}$
0	0.001	0.001	0.06	
20	0.000	0.002	0.09	
40	0.000	0.002	0.10	
59	0.000	0.004	0.14	
80	5.62	0.046	0.42	
90	7.16	0.047	0.49	
99	4.35	0.045	0.36	
109	5.12	0.035	0.40	
120	5.96	0.034	0.45	
141	7.38	0.035	0.53	
160	9.02	0.025	0.63	
179	11.21	0.023	0.85	
200	13.31	0.020	1.02	

Z	T	S	Chl	Pheo	%Pheo
m	$^{\circ}\text{C}$		$\text{mg}/\text{m}^3$	$\text{mg}/\text{m}^3$	%
0	29.89	34.16	0.064	0.034	34.78
20	29.29	34.20	0.065	0.051	43.96
40	29.25	34.10	0.078	0.070	47.49
59	27.63	34.61	0.208	0.153	42.44
80	24.77	35.10	0.279	0.369	56.92
90	24.35	35.21	0.181	0.265	59.46
99	24.09	35.36	0.114	0.138	54.83
109	23.72	35.29	0.096	0.138	58.87
120	23.45	35.28	0.046	0.114	71.53
141	22.41	35.09	0.026	0.076	74.77
160	20.77	34.96	0.025	0.073	74.78
179	18.74	34.86	0.012	0.054	81.28
200	16.38	35.30			

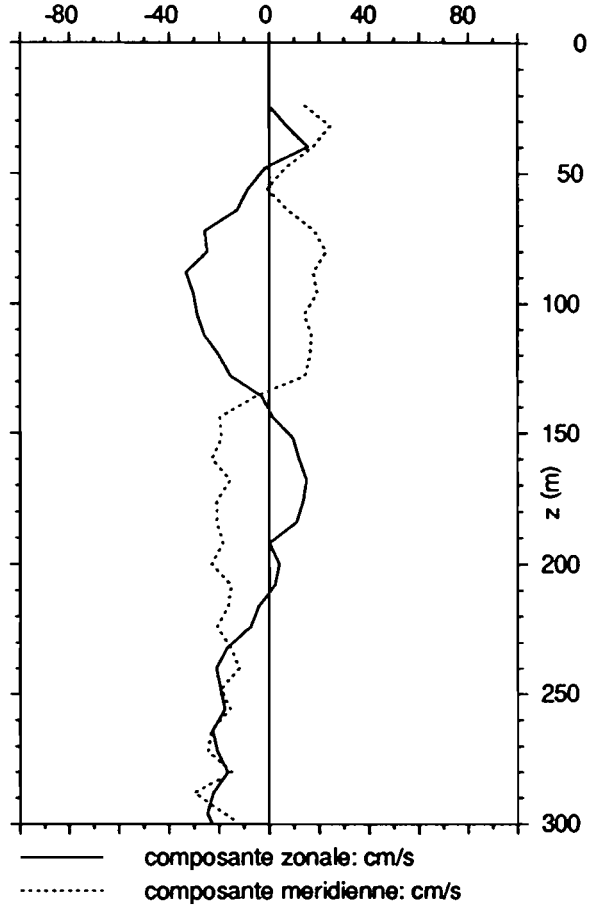
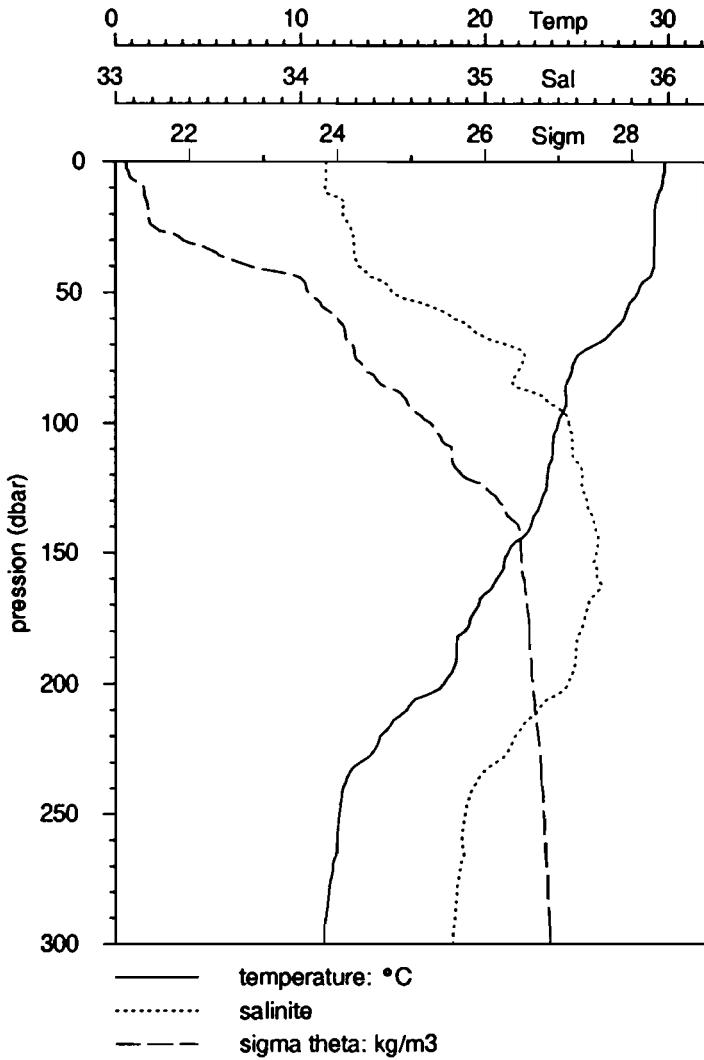


# EQUALIS -station 202

3/12/92, 1h 0 TU

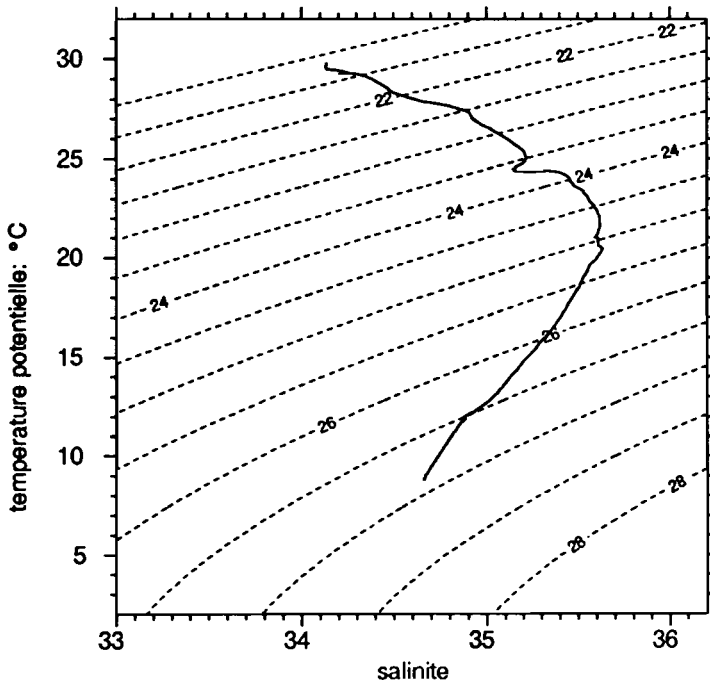
1°45 S 156°10 E

3/12/92, 11h 0 locale



	P	T	S
debut	4.0	29.810	34.137
fin	502.0	8.863	34.658

	Z	U	V
debut	24.0	0.0	14.2
fin	320.0	-24.8	-12.3



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.638	34.131		
20.0	29.296	34.229		
30.0	29.276	34.288	25.0	21.9
40.0	29.232	34.314	15.5	17.5
50.0	28.339	34.496	-3.3	4.7
75.0	24.974	35.213	-25.4	19.8
100.0	23.994	35.456	-29.5	16.7
125.0	23.346	35.529	-17.1	15.1
150.0	21.262	35.607	7.6	-19.2
200.0	17.761	35.449	4.1	-22.9
250.0	12.093	34.891	-19.0	-18.1
300.0	11.219	34.822	-22.7	-11.6
400.0	9.779	34.721		
500.0	8.870	34.659		

# EQUALIS - station202

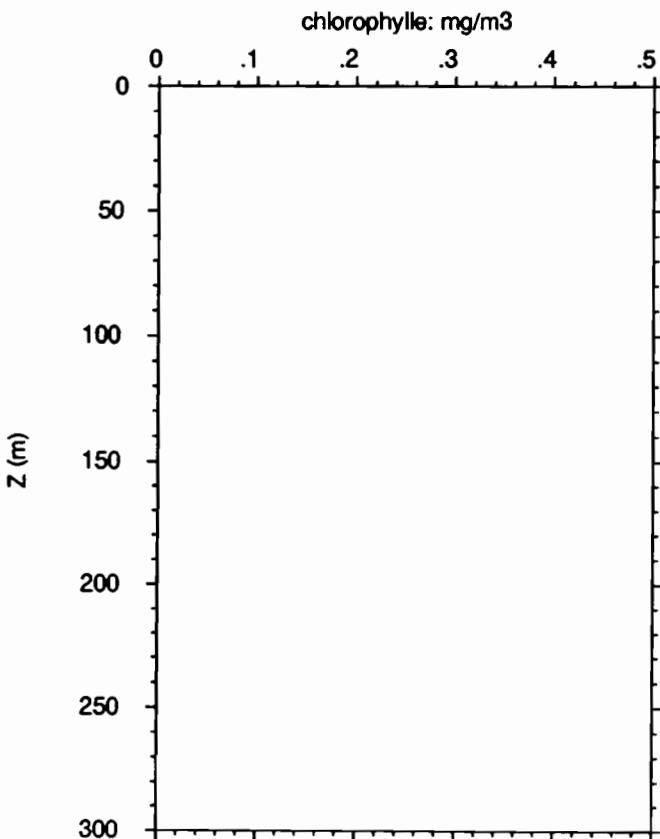
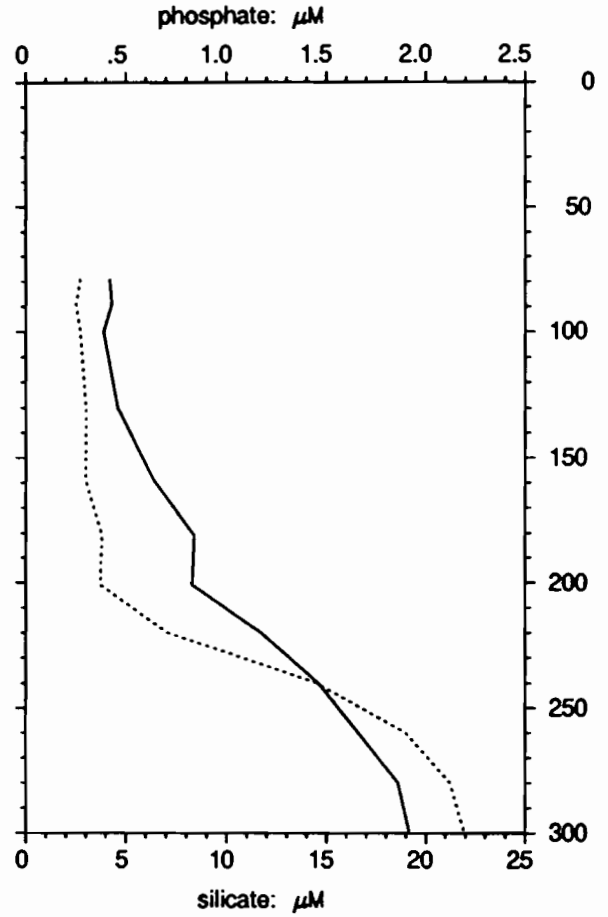
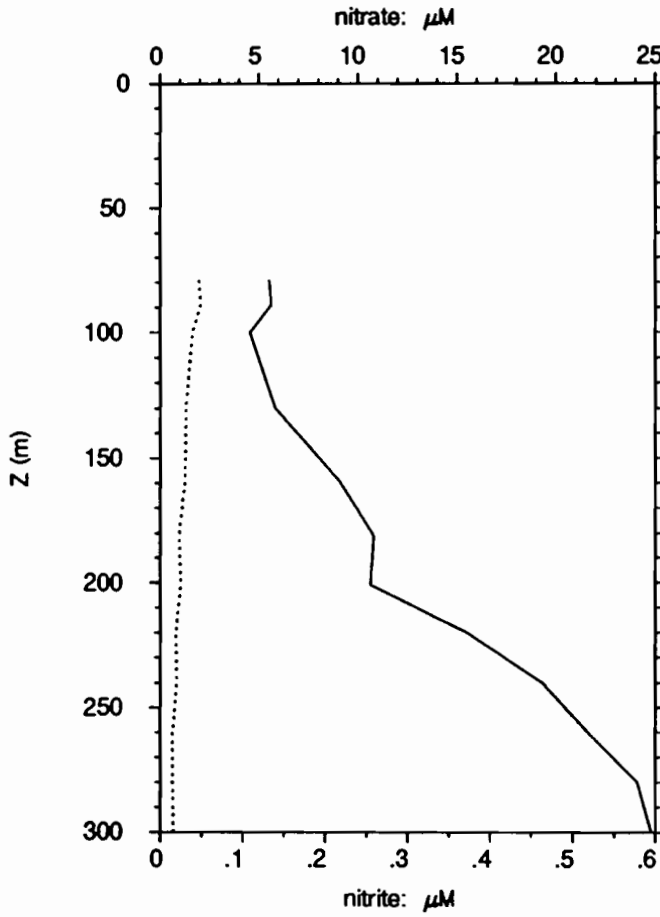
1°45 S 156°10 E

3/12/92, 1h 0 TU

3/12/92, 11h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
79	5.52	0.047	0.42	2.7
89	5.63	0.049	0.43	2.5
100	4.55	0.039	0.39	2.7
130	5.83	0.031	0.46	3.0
159	9.04	0.030	0.64	3.0
181	10.79	0.023	0.84	3.8
201	10.62	0.025	0.83	3.7
220	15.48	0.019	1.17	7.1
240	19.32	0.020	1.46	14.5
260	21.58	0.015	1.66	19.0
280	24.08	0.015	1.86	21.2
301	24.81	0.016	1.92	22.0

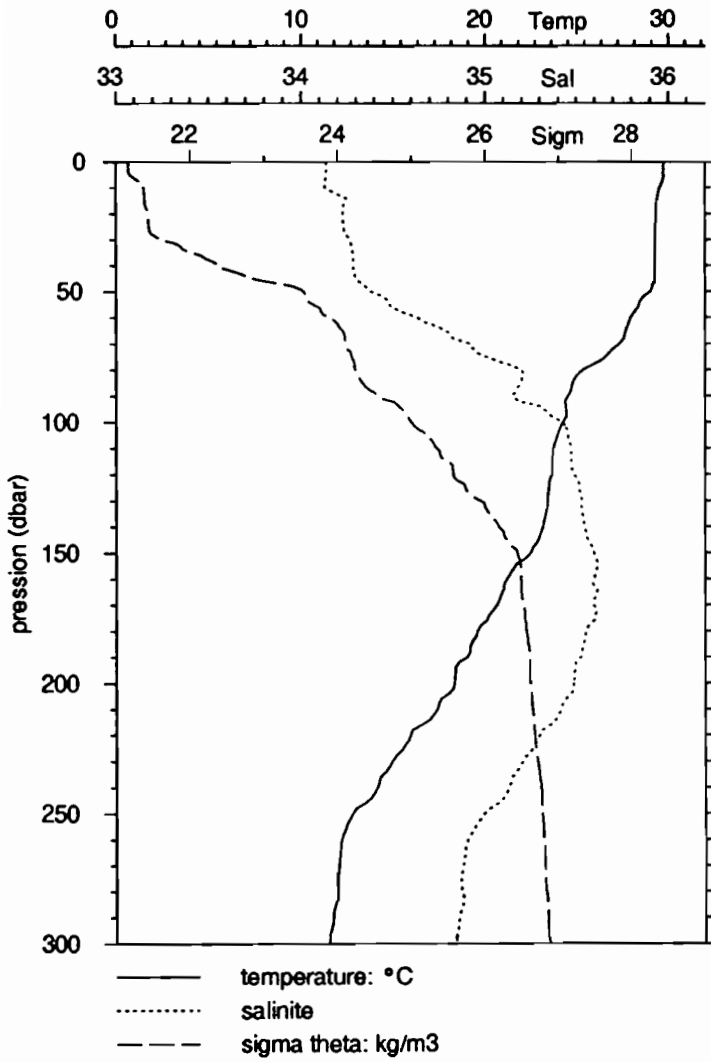
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
79	24.77	35.06			
89	24.43	35.19			
100	24.01	35.44			
130	23.16	35.53			
159	20.80	35.40			
181	19.12	35.25			
201	17.91	33.93			
220	14.87	34.70			
240	12.51	34.79			
260	11.99	34.79			
280	11.56	34.68			
301	11.23	34.81			

# EQUALIS -station 203

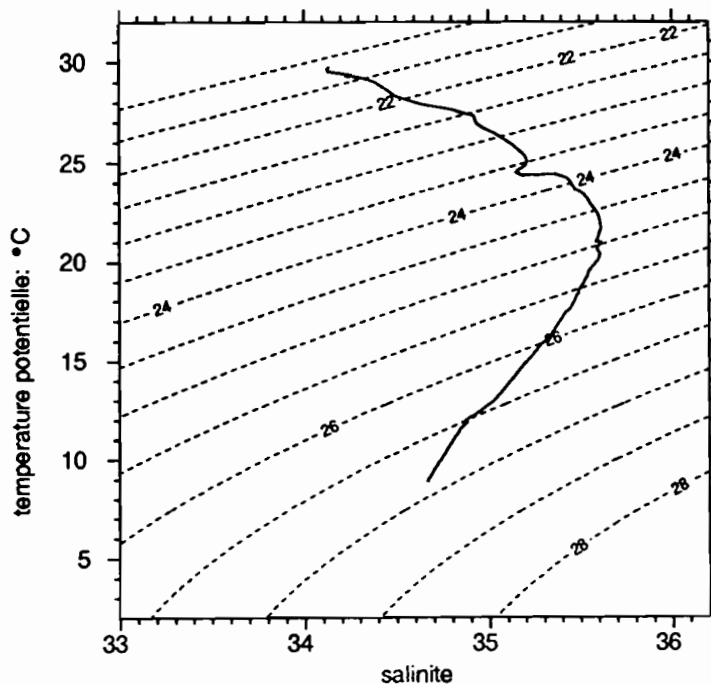
3/12/92, 1h45 TU

1°45 S 156°10 E

3/12/92, 11h45 locale



	P	T	S
debut	6.0	29.738	34.137
fin	502.0	8.933	34.666



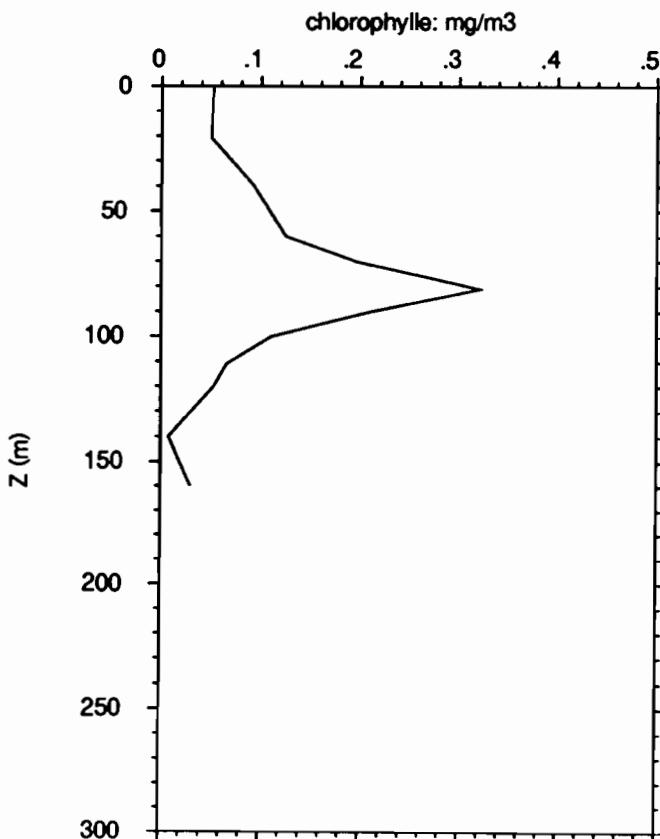
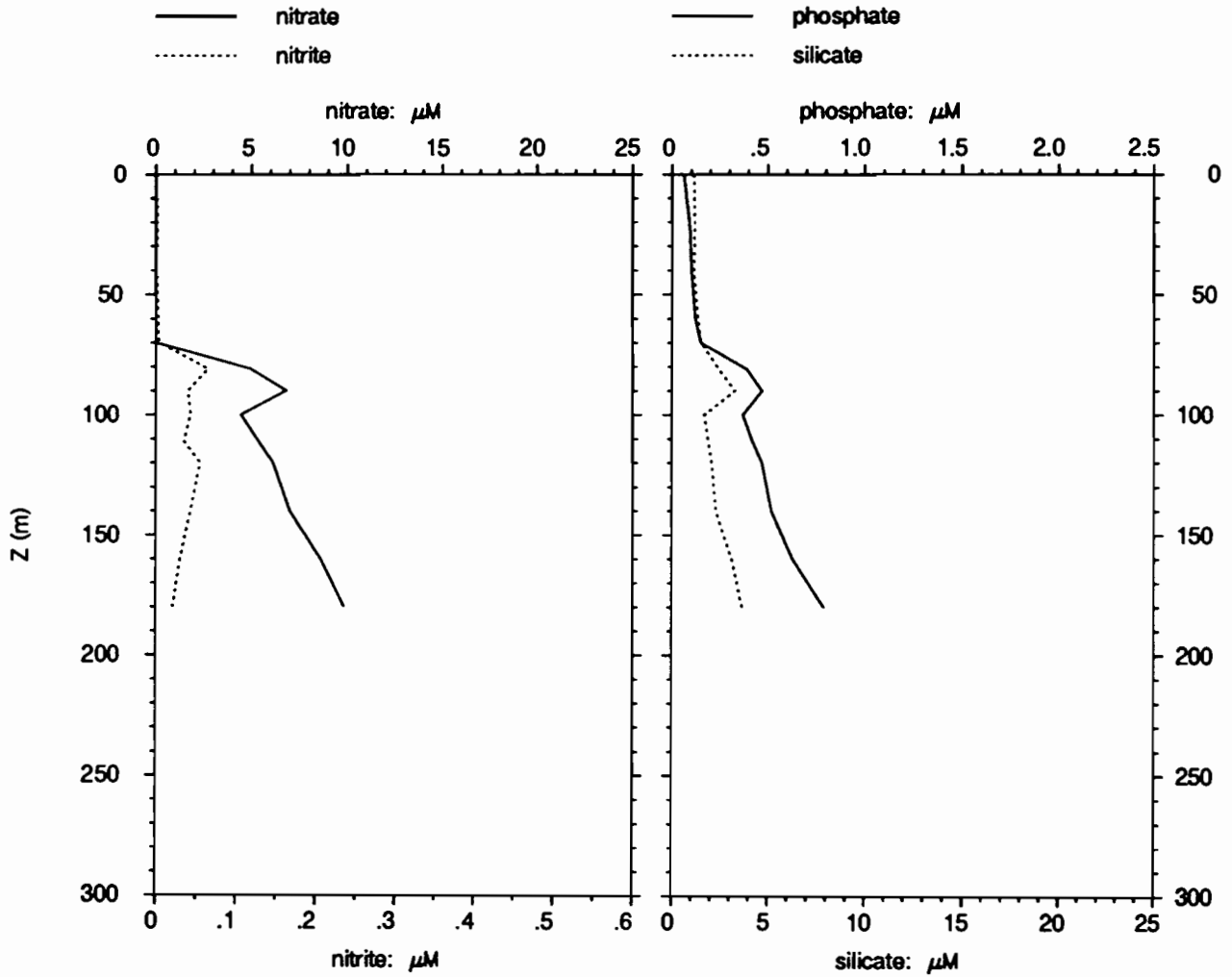
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.533	34.130		
20.0	29.315	34.228		
30.0	29.300	34.265		
40.0	29.273	34.286		
50.0	29.020	34.381		
75.0	26.598	35.003		
100.0	24.250	35.425		
125.0	23.487	35.515		
150.0	22.488	35.595		
200.0	18.323	35.482		
250.0	12.795	34.994		
300.0	11.526	34.840		
400.0	9.964	34.731		
500.0	8.964	34.666		

# EQUALIS - station203

1°45 S 156°10 E

3/12/92, 1h45 TU

3/12/92, 11h45 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.001	0.06	1.1
21	0.003	0.002	0.09	1.2
40	0.003	0.001	0.10	1.1
60	0.001	0.003	0.12	1.4
70	0.003	0.004	0.15	1.5
81	4.94	0.065	0.39	2.4
90	6.81	0.040	0.47	3.3
100	4.44	0.043	0.37	1.7
111	5.35	0.035	0.42	1.9
120	6.12	0.055	0.47	2.1
140	6.98	0.043	0.52	2.3
160	8.59	0.030	0.63	3.1
180	9.83	0.021	0.79	3.7

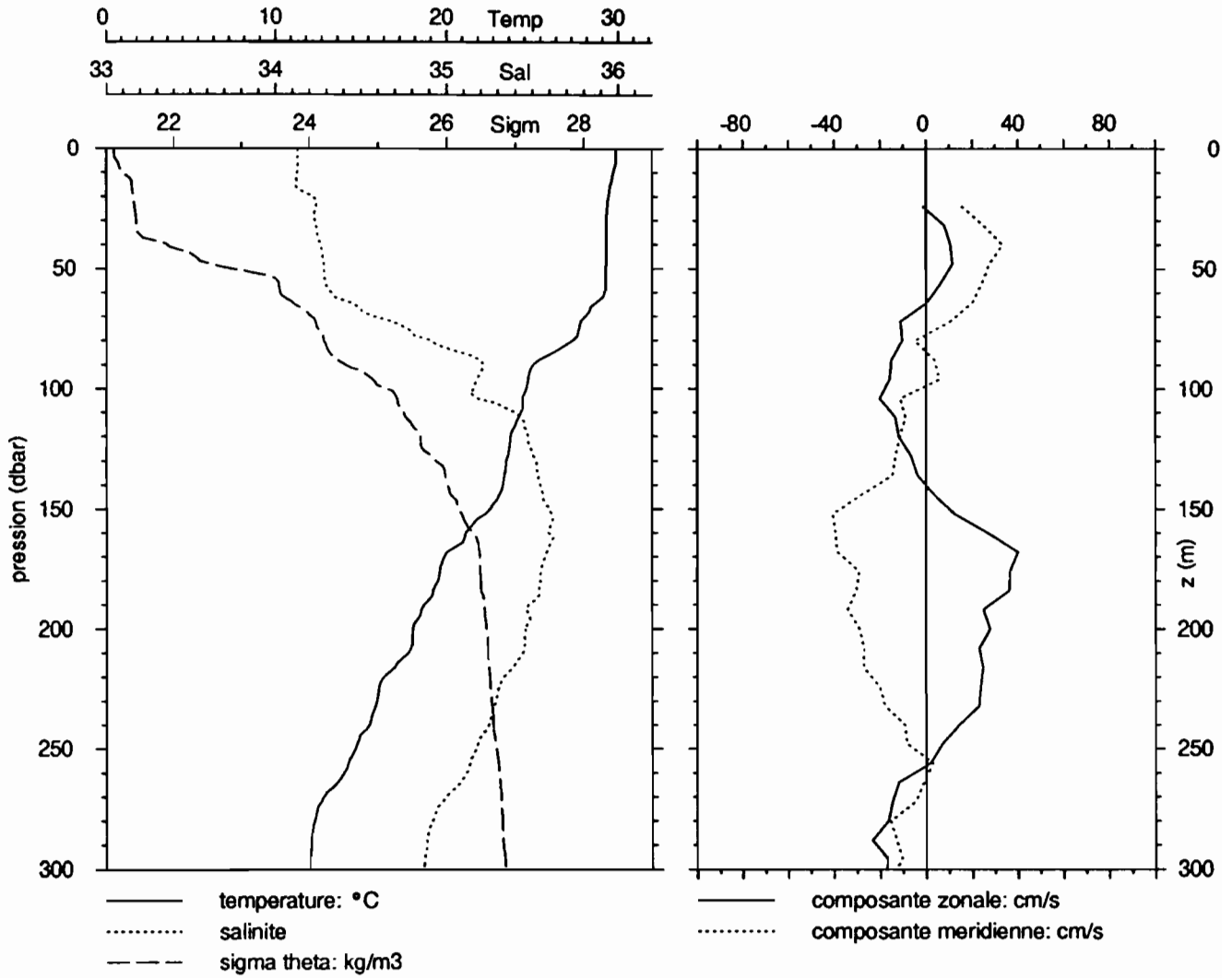
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.58	34.16	0.052	0.016	24.05
21	29.31	34.22	0.050	0.037	42.17
40	29.26	34.04	0.093	0.053	36.42
60	27.80	34.31	0.125	0.117	48.46
70	26.78	34.14	0.196	0.248	55.83
81	24.91	35.11	0.322	0.404	55.69
90	24.42	35.18	0.211	0.308	59.31
100	24.07	35.43	0.111	0.163	59.44
111	23.69	35.46	0.066	0.125	65.26
120	23.47	35.51	0.053	0.107	67.17
140	22.42	34.98	0.008	0.057	88.01
160	20.83	35.46	0.030	0.046	60.76
180	19.52	35.52			

# EQUALIS -station 204

3/12/92, 3h59 TU

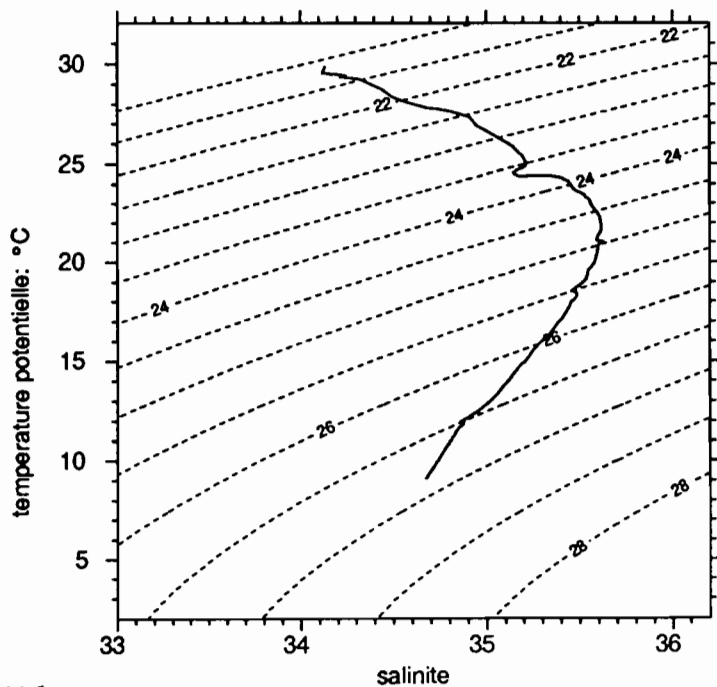
1°45 S 156°10 E

3/12/92, 13h59 locale



	P	T	S
debut	6.0	29.888	34.131
fin	498.0	9.124	34.673

	Z	U	V
debut	24.0	-1.4	15.5
fin	312.0	-26.4	-5.3



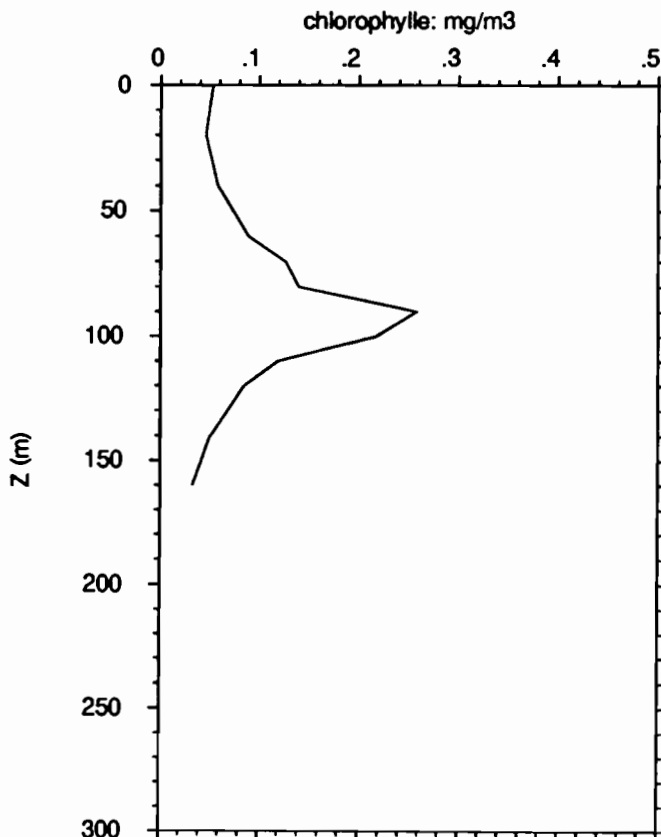
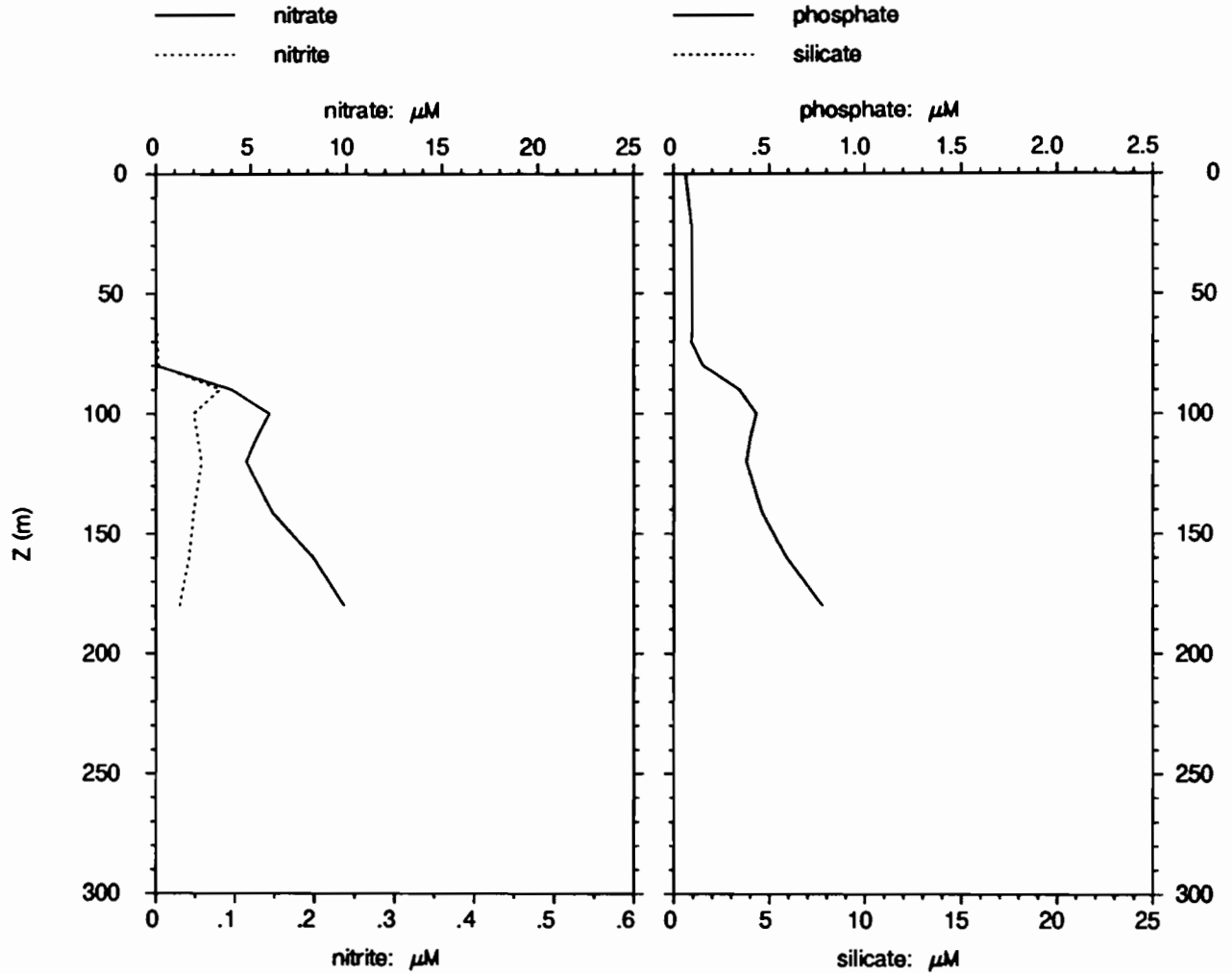
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.725	34.130		
20.0	29.452	34.223		
30.0	29.319	34.232	5.6	22.6
40.0	29.309	34.264	10.6	33.3
50.0	29.289	34.287	10.2	26.8
75.0	27.718	34.767	-10.7	4.8
100.0	24.658	35.155	-18.0	-2.7
125.0	23.647	35.487	-8.5	-12.5
150.0	22.532	35.597	10.2	-37.4
200.0	18.030	35.458	27.8	-29.0
250.0	14.670	35.169	5.8	-5.5
300.0	11.996	34.867	-17.2	-13.2
400.0	10.614	34.777		

# EQUALIS - station204

1° 45 S 156° 10 E

3/12/92, 3h59 TU

3/12/92, 13h59 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.000	0.06	
20	0.005	0.000	0.09	
40	0.004	0.001	0.10	
60	0.003	0.001	0.10	
70	0.005	0.002	0.09	
80	0.003	0.003	0.15	
90	3.99	0.081	0.34	
100	5.98	0.048	0.43	
110	5.32	0.053	0.40	
120	4.77	0.058	0.38	
141	6.13	0.048	0.46	
160	8.27	0.042	0.59	
180	9.87	0.030	0.78	

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	31.39	34.18	0.053	0.033	38.40
20	29.39	34.24	0.046	0.039	45.91
40	29.30	34.27	0.058	0.048	45.50
60	29.18	34.16	0.089	0.085	48.73
70	27.93	34.43	0.127	0.091	41.84
80	27.25	34.34	0.140	0.149	51.62
90	25.30	34.95	0.258	0.331	56.19
100	24.71	35.03	0.217	0.291	57.28
110	24.44	35.19	0.119	0.214	64.27
120	23.96	35.30	0.085	0.143	62.89
141	23.37	35.35	0.050	0.127	71.88
160	21.64	34.74	0.033	0.051	61.03
180	19.49	35.52			

# EQUALIS -station 205

1°45 S 156°10 E

3/12/92, 7h 0 TU

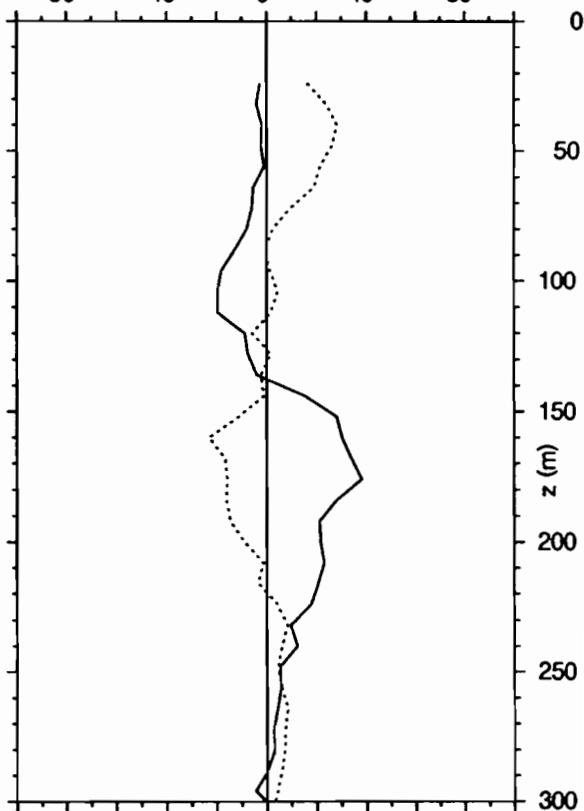
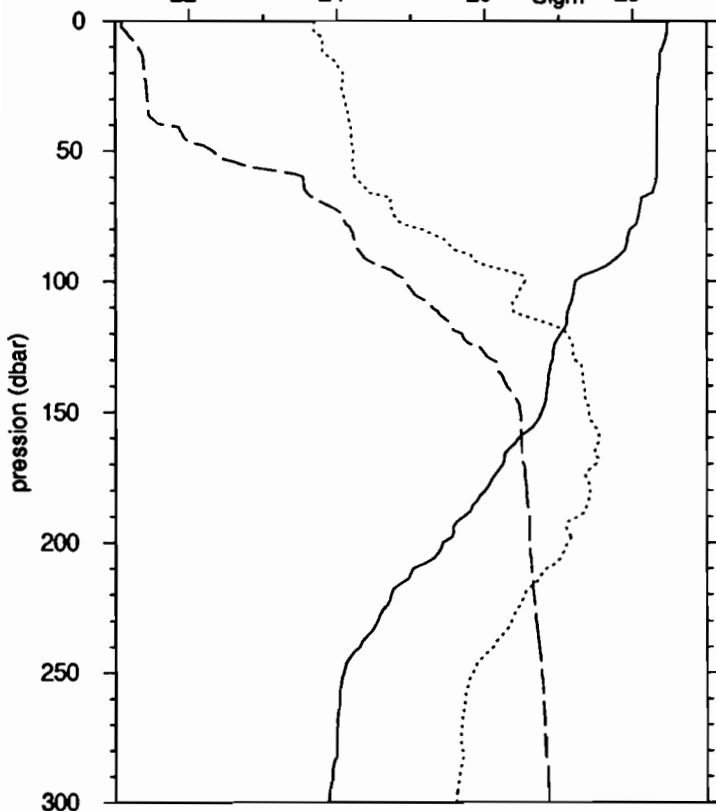
3/12/92, 17h 0 locale

0 10 20 Temp 30

33 34 35 Sal 36

22 24 26 Sigm 28

-80 -40 0 40 80

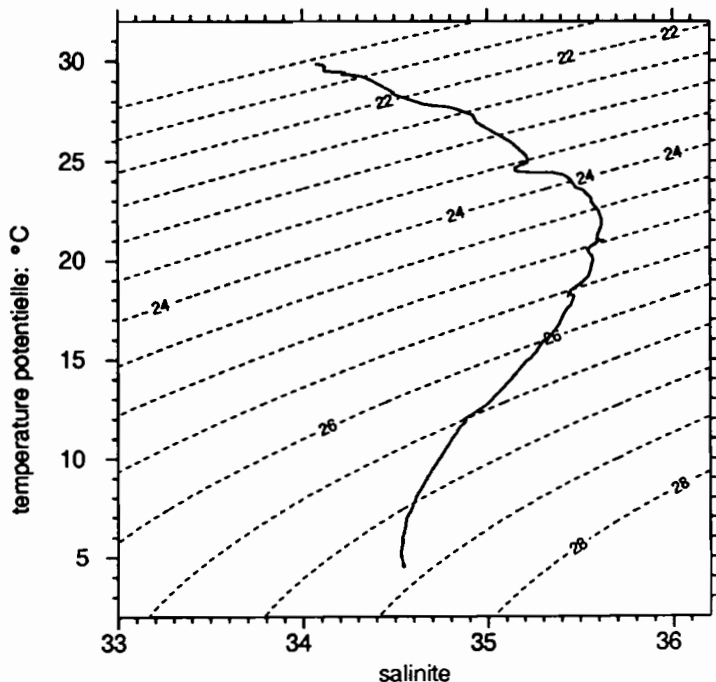


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	4.0	29.853	34.075
fin	998.0	4.551	34.546

	Z	U	V
debut	24.0	-2.7	16.5
fin	376.0	-9.7	-13.7



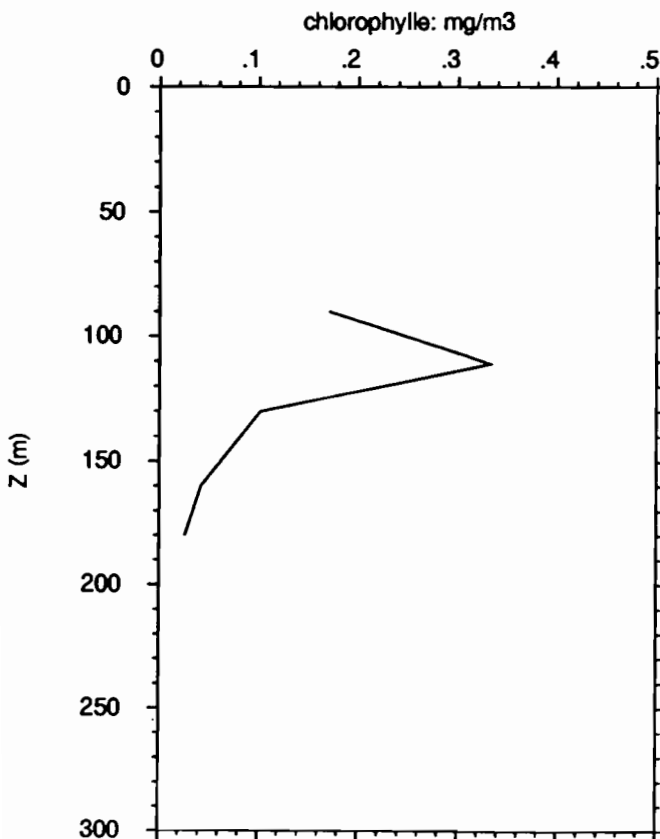
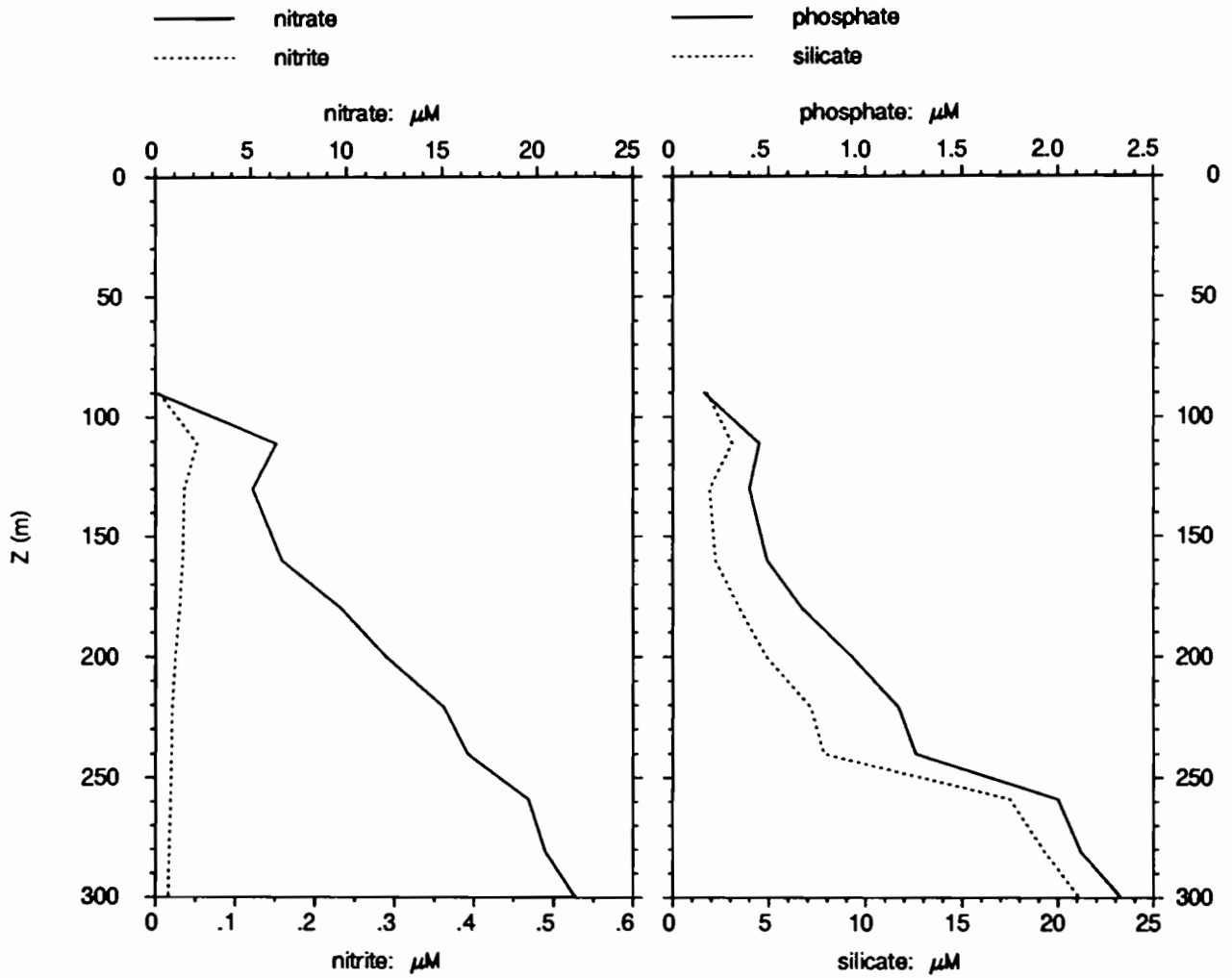
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.616	34.119		
20.0	29.409	34.234		
30.0	29.327	34.243	-3.7	22.0
40.0	29.308	34.271	-1.8	28.1
50.0	29.293	34.287	-2.0	25.1
75.0	28.302	34.514	-6.6	7.0
100.0	24.914	35.219	-18.9	2.9
125.0	23.749	35.475	-7.9	-1.1
150.0	23.082	35.563	24.9	-8.7
200.0	17.714	35.449	21.6	-9.0
250.0	12.357	34.934	5.5	4.9
300.0	11.549	34.843	-0.2	3.4
400.0	10.170	34.749		
500.0	8.976	34.671		
600.0	7.008	34.561		
700.0	6.191	34.545		
800.0	5.560	34.537		
900.0	4.706	34.544		

# EQUALIS - station205

1°45 S 156°10 E

3/12/92, 7h 0 TU

3/12/92, 17h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	0.001	0.004	0.16	1.8
111	6.32	0.052	0.45	3.1
130	5.09	0.036	0.40	1.9
160	6.62	0.034	0.49	2.2
180	9.73	0.030	0.67	3.5
200	12.07	0.025	0.93	4.9
221	15.09	0.021	1.17	7.1
240	16.34	0.020	1.26	7.8
259	19.53	0.019	2.00	17.5
281	20.41	0.017	2.12	19.3
301	22.05	0.016	2.34	21.2
1000	28.27	0.013	2.87	64.8

Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
90	27.50	34.69	0.171	0.197	53.53
111	24.70	34.99	0.333	0.422	55.86
130	23.81	35.38	0.102	0.160	60.97
160	22.79	35.06	0.042	0.080	65.34
180	20.13	34.94	0.026	0.050	66.11
200	17.89	34.31			
221	15.04	34.67			
240	13.80	34.34			
259	12.18	34.75			
281	11.97	34.72			
301	11.57	34.83			
1000	4.55	34.54			

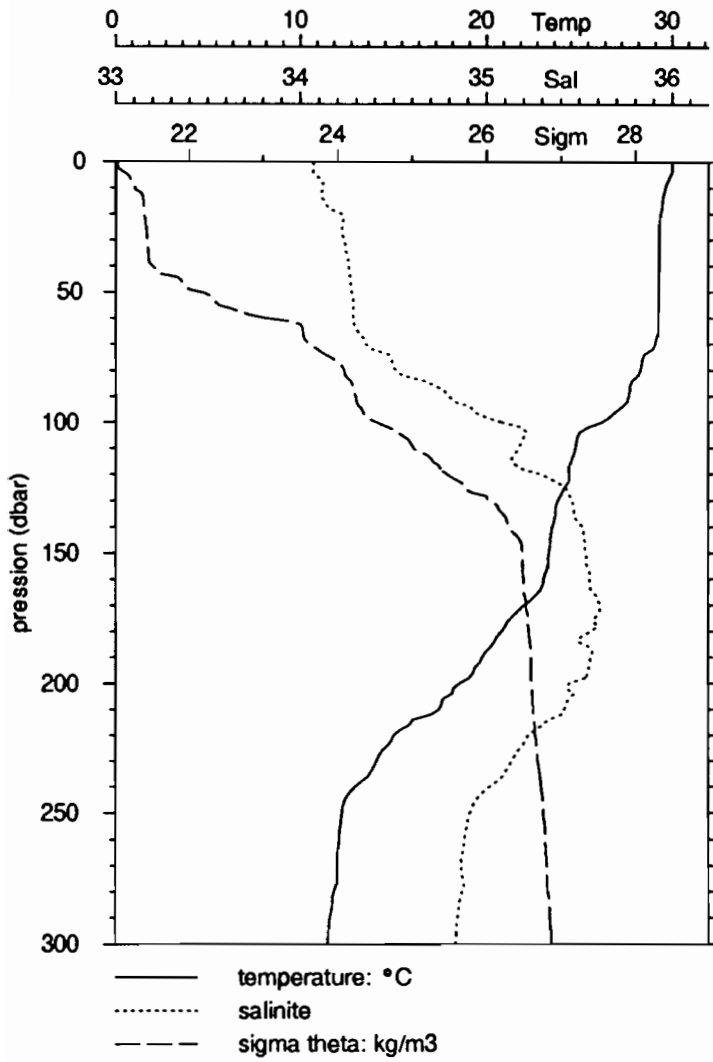


# EQUALIS -station 207

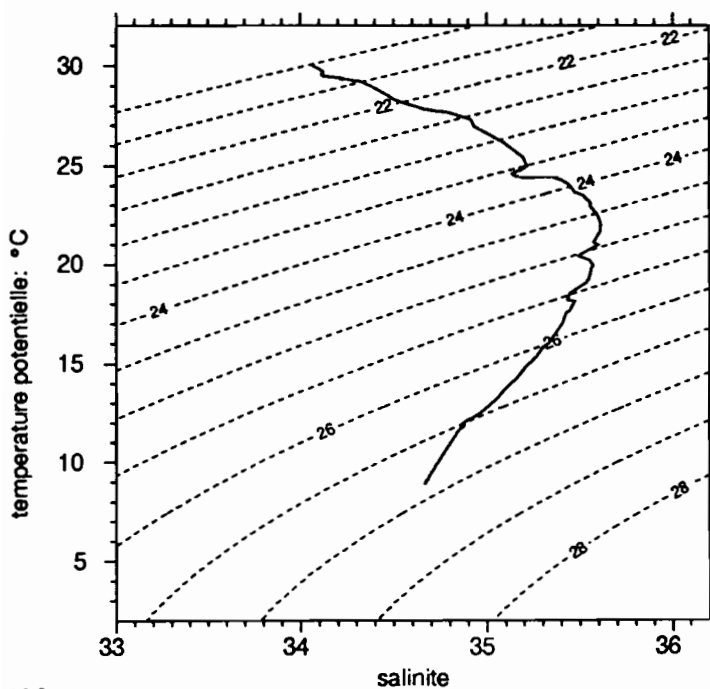
3/12/92, 7h58 TU

1°45 S 156°10 E

3/12/92, 17h58 locale



	P	T	S
debut	4.0	30.000	34.068
fin	500.0	8.935	34.664



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.648	34.122		
20.0	29.403	34.225		
30.0	29.331	34.236		
40.0	29.319	34.259		
50.0	29.285	34.276		
75.0	28.457	34.482		
100.0	26.240	35.082		
125.0	24.223	35.420		
150.0	23.358	35.535		
200.0	18.575	35.445		
250.0	12.240	34.913		
300.0	11.476	34.835		
400.0	10.164	34.745		
500.0	8.935	34.664		

# EQUALIS - station207

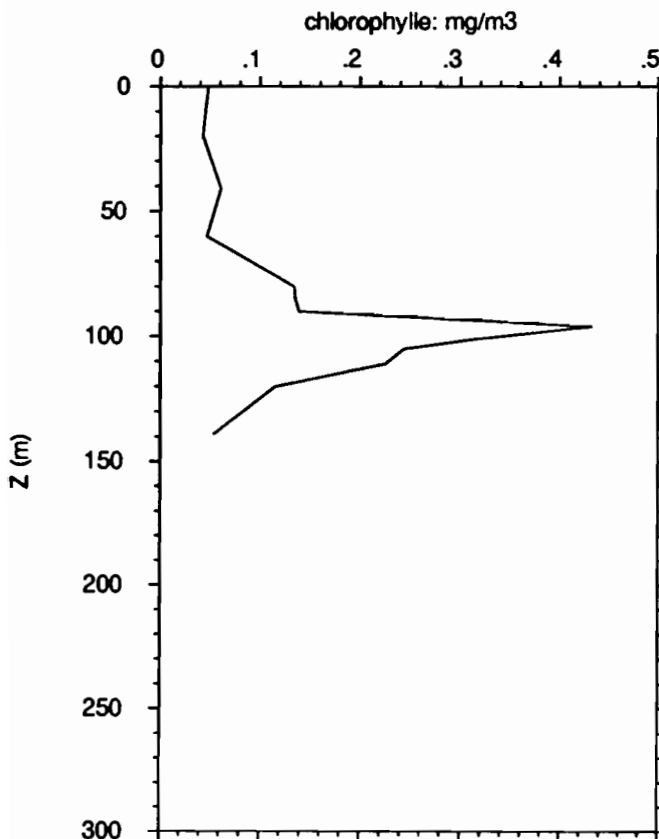
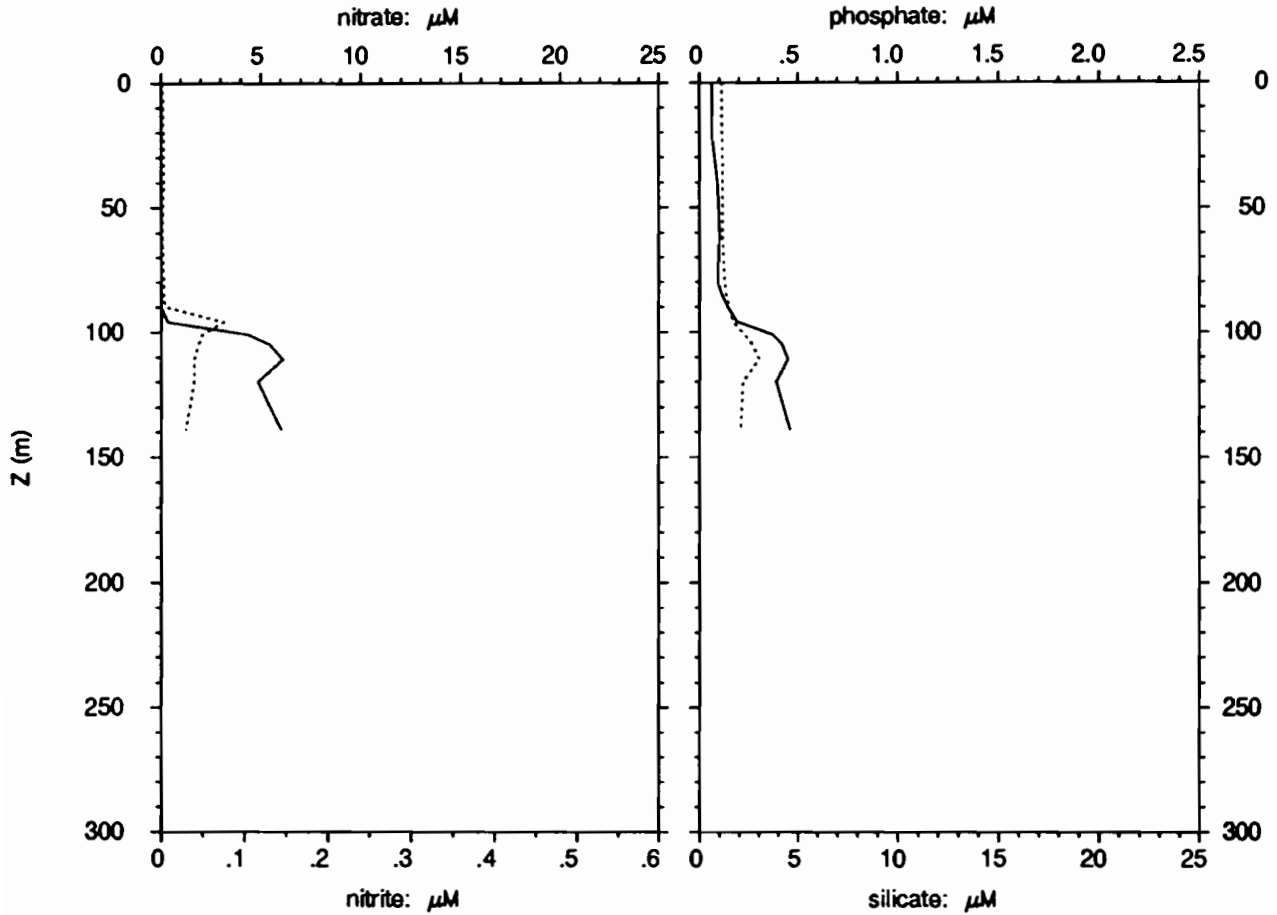
1°45 S 156°10 E

3/12/92, 7h58 TU

3/12/92, 17h58 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.001	0.002	0.06	1.1
20	0.000	0.003	0.06	1.1
41	0.001	0.003	0.09	1.2
60	0.002	0.002	0.10	1.1
80	0.001	0.003	0.09	1.2
85	0.001	0.003	0.11	1.3
90	0.001	0.005	0.14	1.5
96	0.350	0.075	0.19	1.7
101	4.36	0.050	0.37	2.3
105	5.45	0.045	0.42	2.7
111	6.10	0.040	0.45	3.0
120	4.86	0.040	0.39	2.2
139	6.01	0.030	0.46	2.1

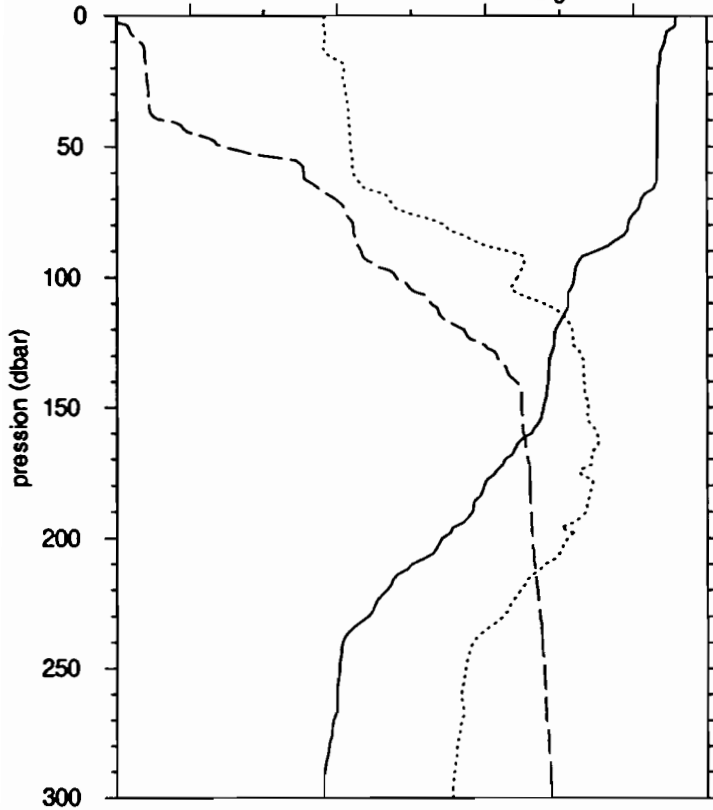
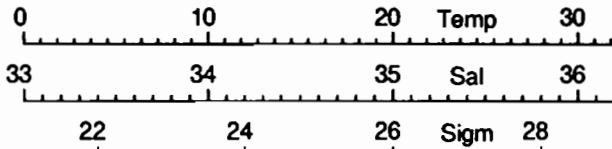
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.37	34.08	0.048	0.011	18.80
20	29.47	34.14	0.043	0.024	35.49
41	29.34	34.20	0.061	0.031	33.61
60	29.28	33.99	0.047	0.049	51.02
80	28.21	34.39	0.134	0.076	36.13
85	27.83	34.56	0.135	0.111	45.08
90	27.51	34.39	0.139	0.150	51.87
96	26.42	34.53	0.432	0.487	52.99
101	25.00	35.11	0.317	0.384	54.71
105	24.84	35.06	0.244	0.352	59.08
111	24.64	35.02	0.225	0.315	58.34
120	24.45	34.92	0.115	0.189	62.26
139	23.50	35.50	0.054	0.116	68.16

# EQUALIS -station 208

1°45 S 156°10 E

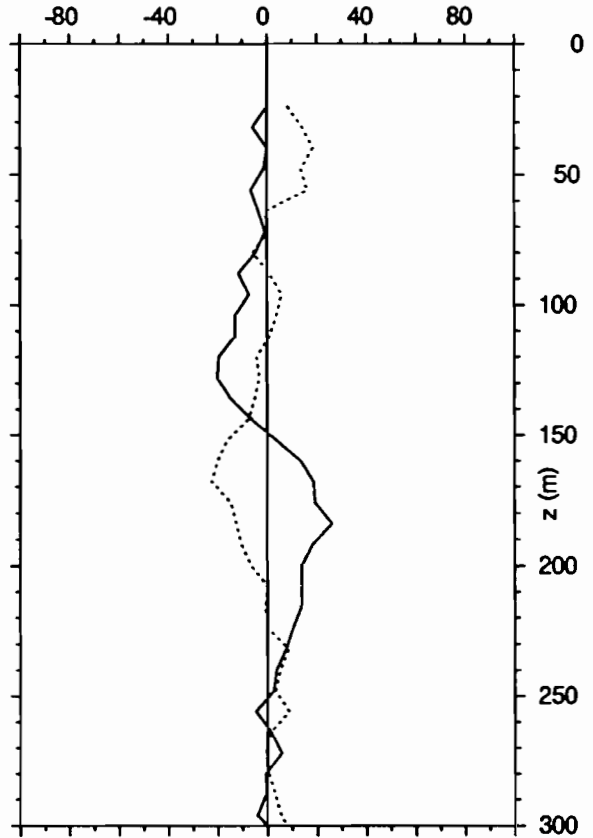
3/12/92, 10h 0 TU

3/12/92, 20h 0 locale



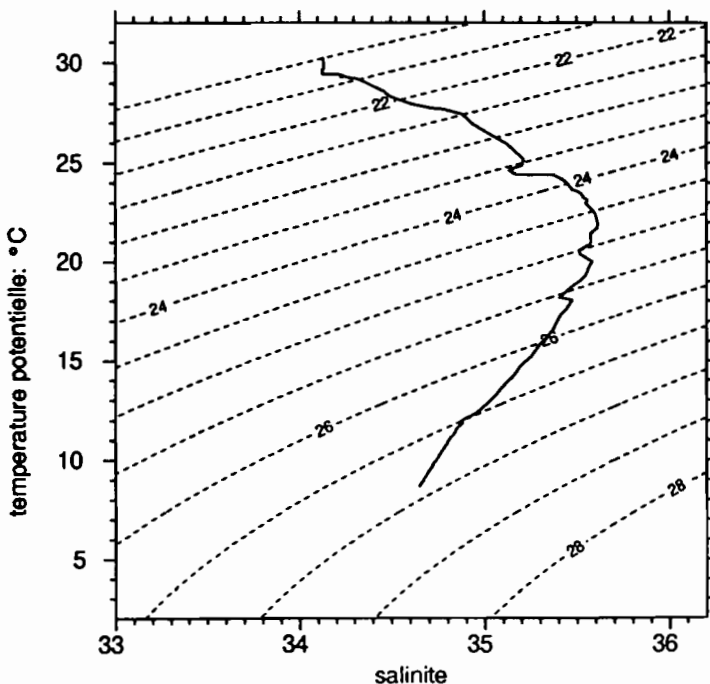
— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	4.0	30.276	34.130
fin	502.0	8.710	34.648



— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	Z	U	V
debut	24.0	0.0	8.3
fin	376.0	15.5	3.0



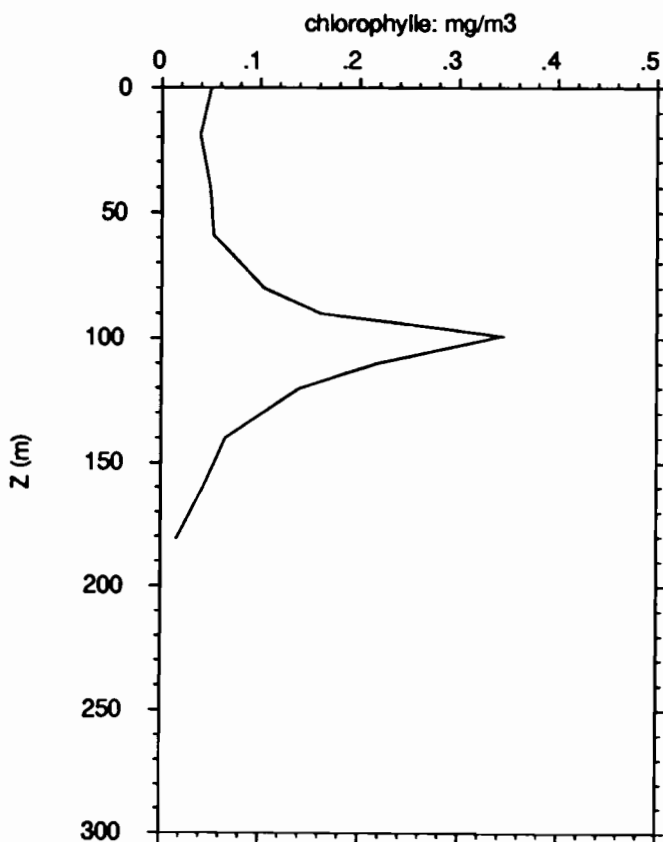
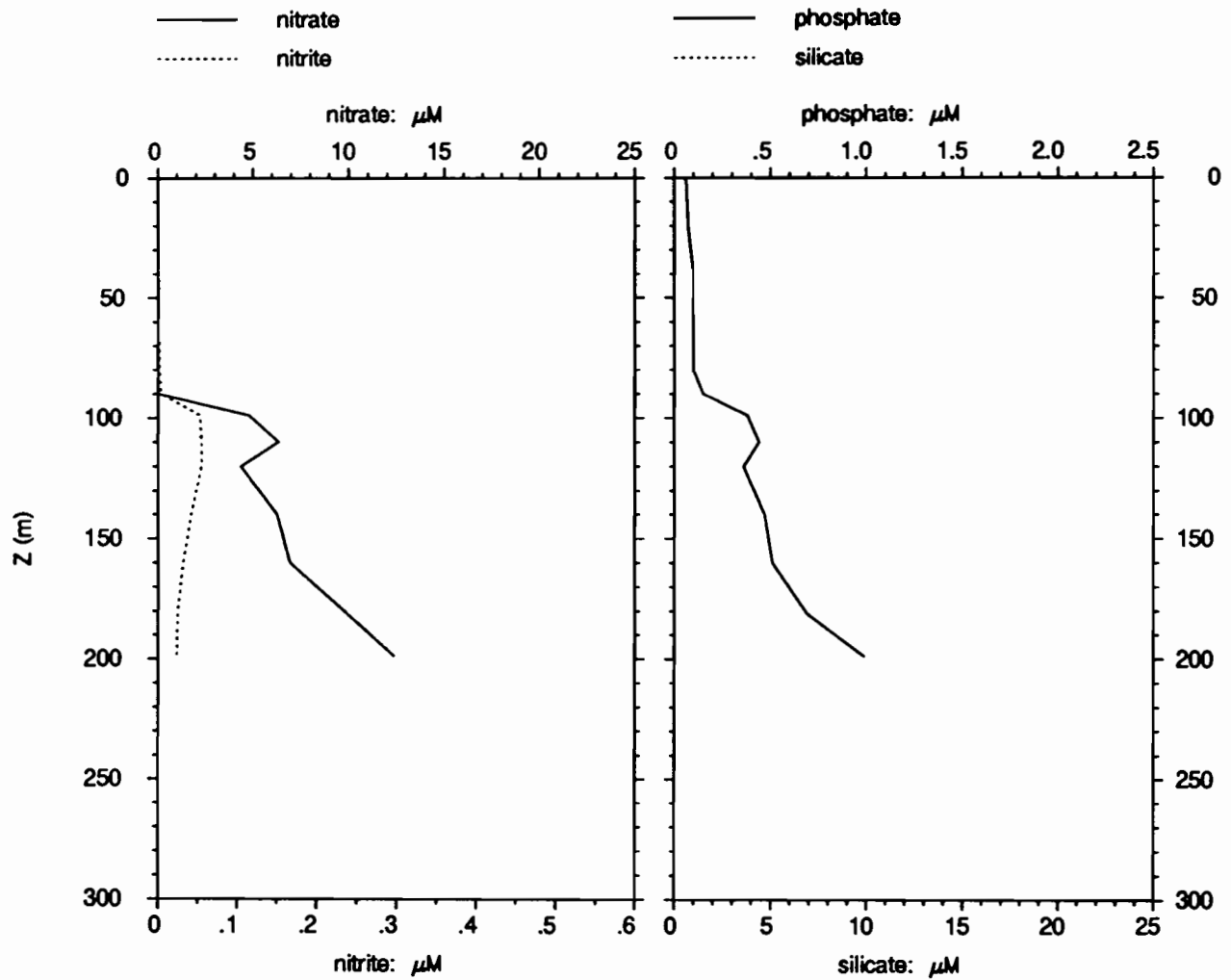
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.692	34.132		
20.0	29.375	34.242		
30.0	29.340	34.250	-0.2	12.8
40.0	29.323	34.266	0.1	18.5
50.0	29.280	34.276	-2.6	14.3
75.0	28.122	34.566	-2.1	-1.6
100.0	24.790	35.171	-10.0	4.8
125.0	23.698	35.473	-20.0	-3.5
150.0	23.136	35.555	1.3	-14.0
200.0	17.638	35.444	13.9	-6.4
250.0	12.111	34.890	0.8	4.8
300.0	11.236	34.821	-0.2	7.8
400.0	9.884	34.726		
500.0	8.731	34.649		

# EQUALIS - station208

1°45 S 156°10 E

3/12/92, 10h 0 TU

3/12/92, 20h 0 locale



Z	NO3	NO2	PO4	SiO2
m	μM	μM	μM	μM
0	0.003	0.001	0.06	
19	0.002	0.001	0.07	
40	0.002	0.001	0.10	
59	0.004	0.001	0.10	
80	0.002	0.002	0.10	
90	0.000	0.004	0.15	
99	4.78	0.053	0.38	
110	6.35	0.055	0.44	
120	4.37	0.055	0.36	
140	6.27	0.042	0.47	
160	6.96	0.032	0.51	
181	9.90	0.025	0.69	
199	12.36	0.024	0.99	

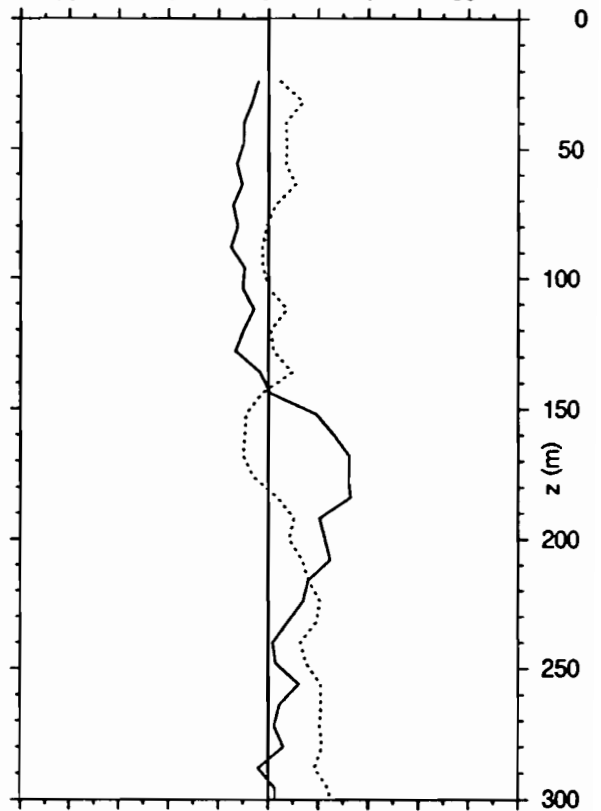
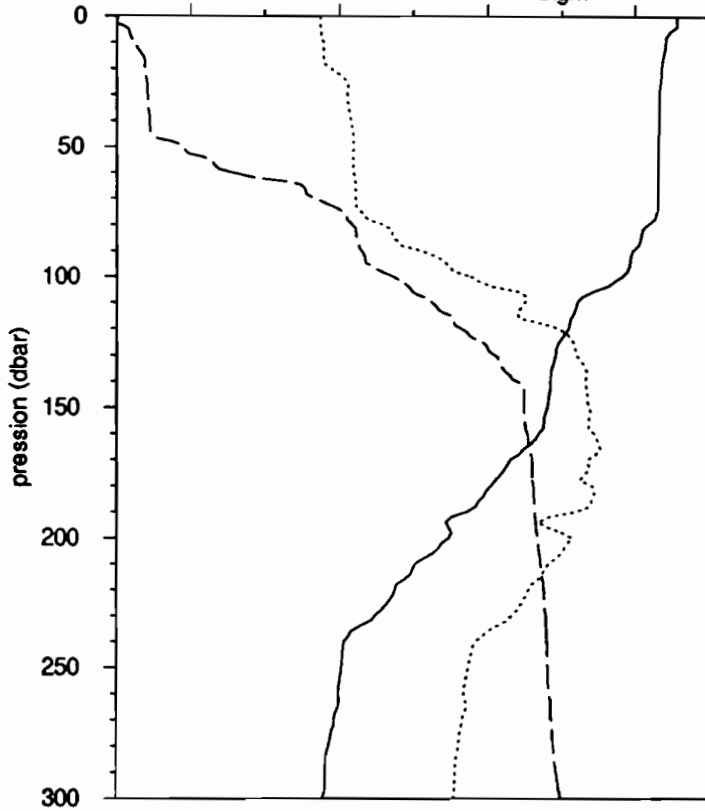
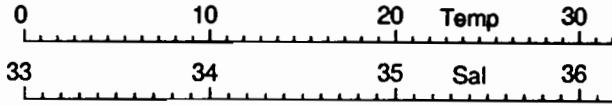
Z	T	S	Chl	Pheo	%Pheo
m	°C		mg/m3	mg/m3	%
0	31.00	34.16	0.050	0.046	48.08
19	29.45	34.16	0.039	0.049	56.15
40	29.32	34.22	0.049	0.052	51.04
59	29.27	34.16	0.053	0.050	48.45
80	27.85	34.37	0.104	0.099	48.54
90	26.97	34.46	0.161	0.194	54.72
99	25.03	35.08	0.343	0.390	53.21
110	24.67	35.07	0.217	0.312	58.95
120	24.36	35.37	0.140	0.202	59.06
140	23.41	35.39	0.065	0.120	64.90
160	22.46	35.04	0.043	0.097	69.48
181	19.36	34.02	0.016	0.049	75.66
199	16.98	34.34			

# EQUALIS -station 209

1°45 S 156°10 E

3/12/92, 13h 0 TU

3/12/92, 23h 0 locale

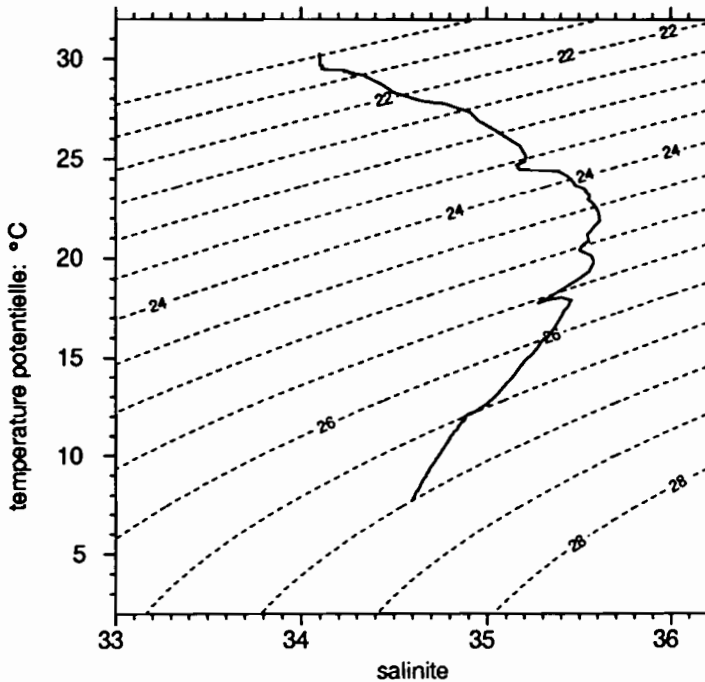


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	30.286	34.097
fin	502.0	7.843	34.603

	Z	U	V
debut	24.0	-4.0	4.8
fin	392.0	6.8	7.3



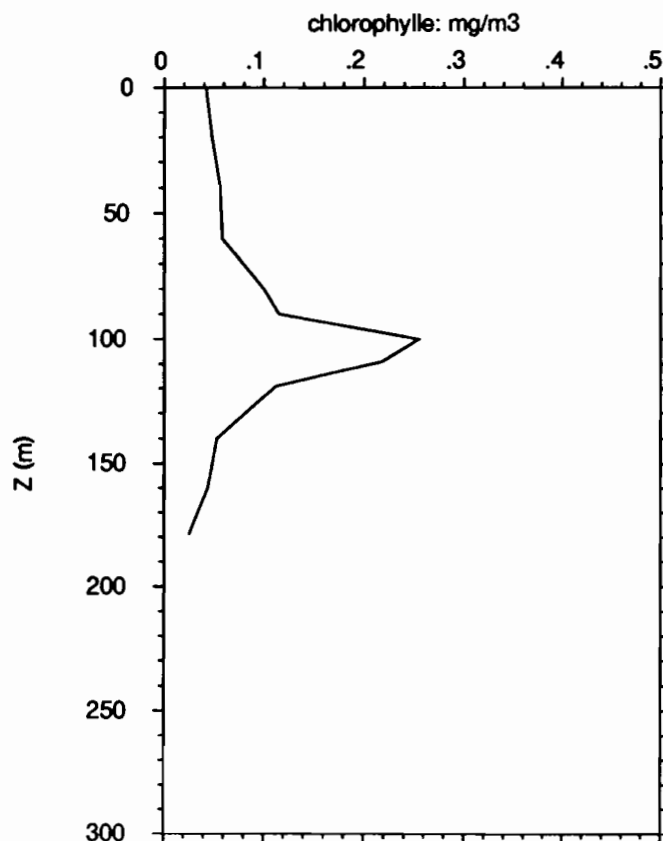
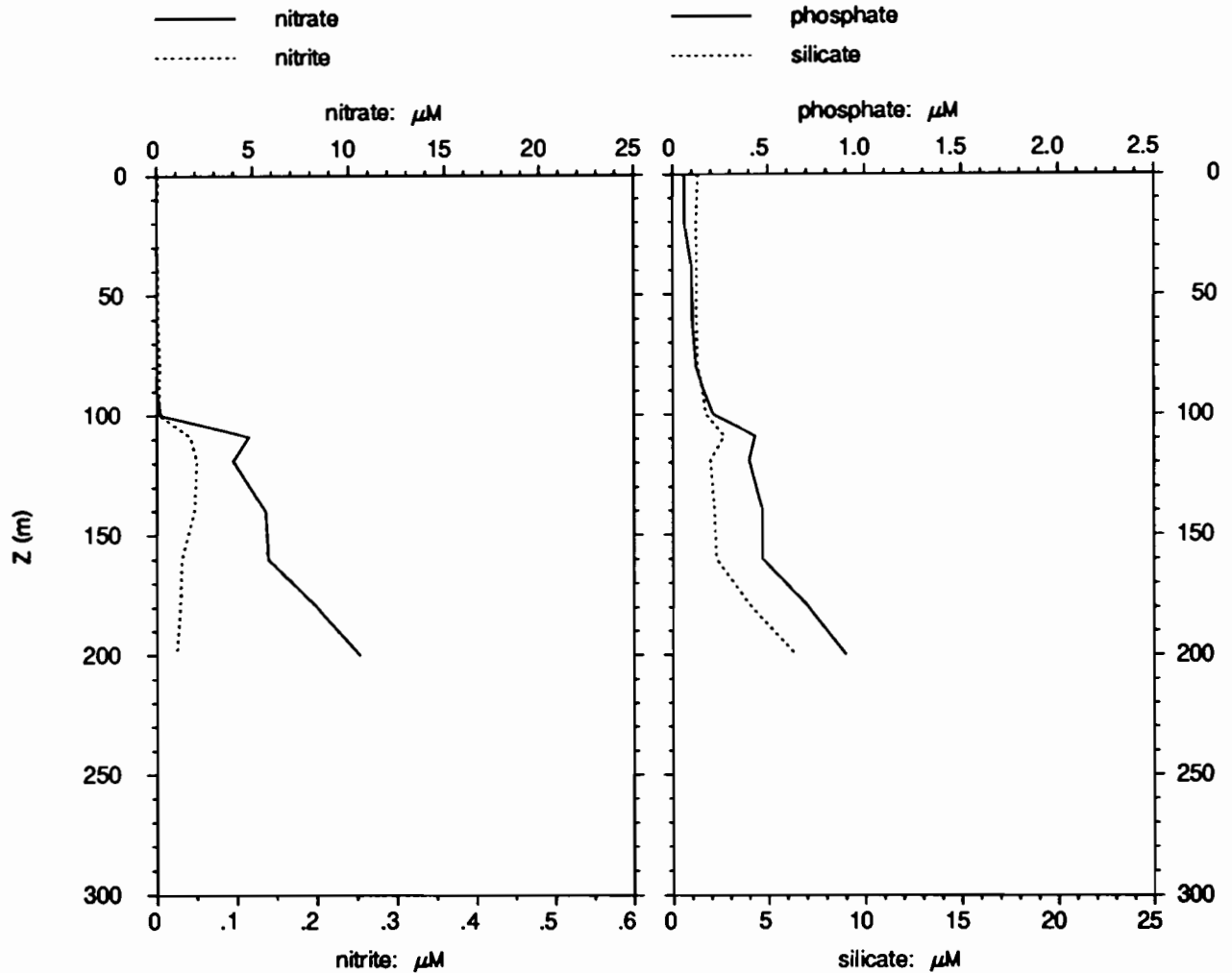
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.686	34.113		
20.0	29.458	34.153		
30.0	29.357	34.242	-5.8	11.6
40.0	29.328	34.260	-9.7	7.0
50.0	29.318	34.277	-10.6	7.4
75.0	29.228	34.315	-13.3	1.5
100.0	27.341	34.909	-9.9	-0.9
125.0	23.890	35.465	-11.9	1.8
150.0	23.242	35.555	14.7	-7.2
200.0	17.930	35.458	22.8	8.4
250.0	12.128	34.896	5.3	16.7
300.0	11.098	34.817	3.0	24.7
400.0	9.598	34.709		
500.0	7.917	34.605		

# EQUALIS - station209

1° 45 S 156° 10 E

3/12/92, 13h 0 TU

3/12/92, 23h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.003	0.002	0.06	1.3
20	0.003	0.001	0.06	1.2
40	0.004	0.002	0.10	1.2
60	0.003	0.002	0.10	1.2
80	0.003	0.004	0.12	1.3
90	0.003	0.003	0.16	1.5
100	0.212	0.003	0.21	1.7
109	4.81	0.042	0.43	2.7
119	3.98	0.050	0.40	2.0
140	5.67	0.047	0.47	2.2
160	5.81	0.031	0.47	2.3
179	8.25	0.029	0.70	4.0
200	10.56	0.025	0.90	6.4

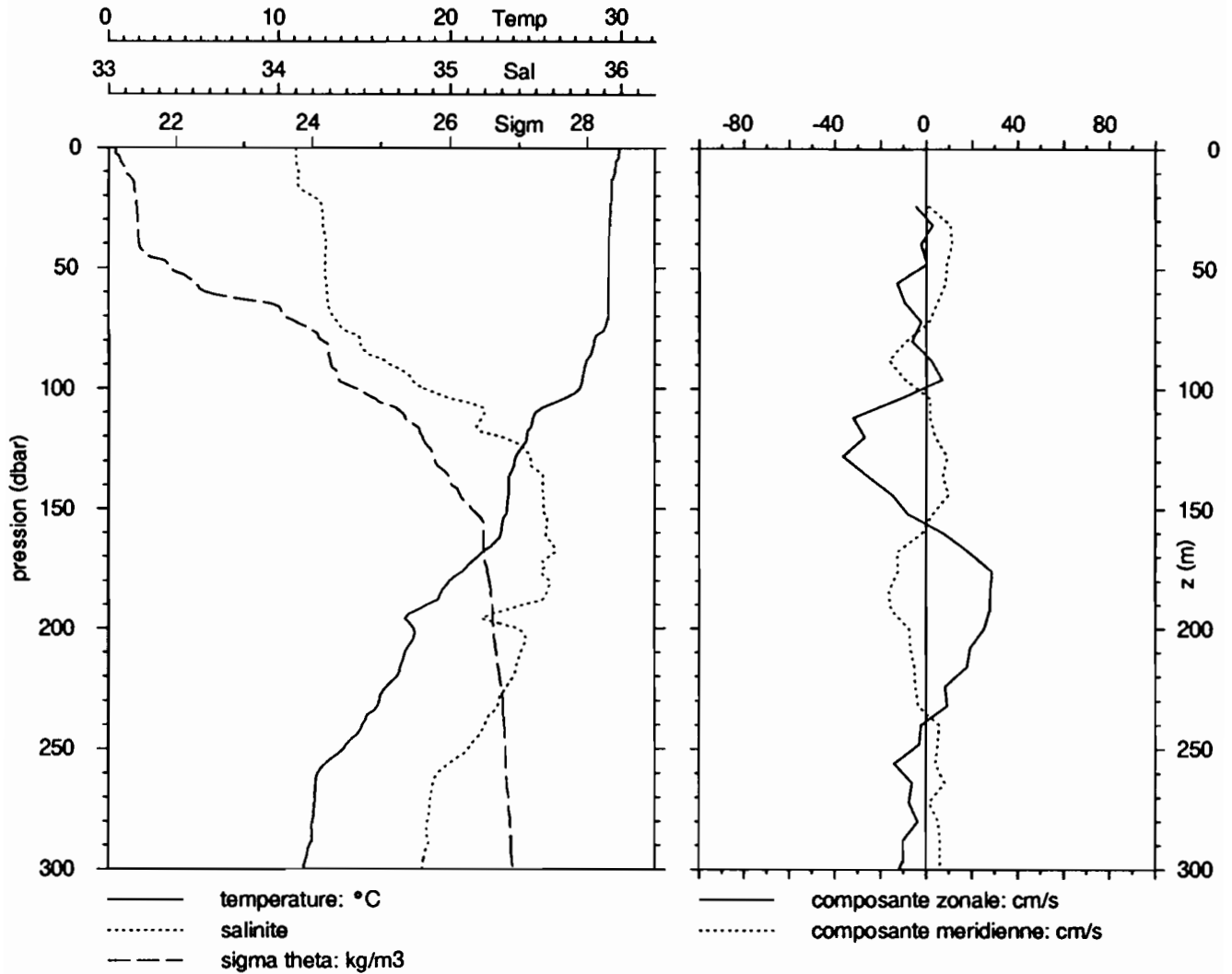
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.31	34.12	0.042	0.013	23.25
20	29.45	34.15	0.048	0.010	17.49
40	29.33	34.25	0.056	0.007	10.82
60	29.28	34.06	0.058	0.046	44.38
80	28.24	34.38	0.100	0.080	44.25
90	27.71	34.52	0.115	0.111	49.27
100	26.60	34.21	0.255	0.300	54.05
109	24.84	35.01	0.218	0.285	56.66
119	24.28	35.00	0.112	0.178	61.42
140	23.40	35.28	0.053	0.129	71.12
160	22.92	34.45	0.044	0.103	69.89
179	20.11	34.23	0.025	0.042	62.96
200	18.02	35.36			

# EQUALIS -station 210

3/12/92, 16h 0 TU

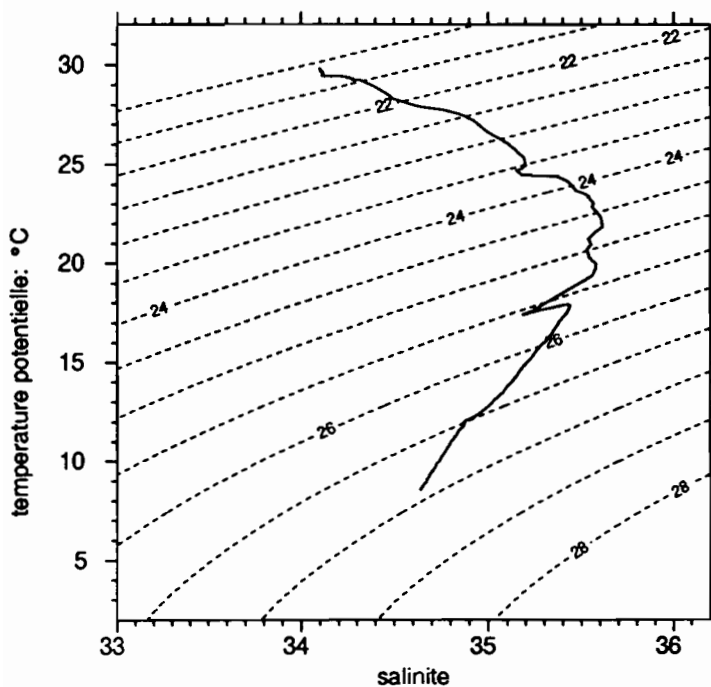
1°45 S 156°10 E

4/12/92, 2h 0 locale



	P	T	S
debut	4.0	29.867	34.102
fin	498.0	8.591	34.640

	Z	U	V
debut	24.0	-4.5	1.2
fin	384.0	6.6	10.4



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.652	34.117		
20.0	29.461	34.196		
30.0	29.367	34.260	1.1	8.3
40.0	29.330	34.278	-2.3	11.4
50.0	29.273	34.273	-2.8	9.0
75.0	29.040	34.373	-3.6	-2.3
100.0	27.564	34.849	-2.3	-3.7
125.0	24.124	35.433	-32.8	7.3
150.0	23.296	35.546	-9.6	4.6
200.0	17.913	35.394	25.3	-7.5
250.0	13.849	35.104	-5.7	4.9
300.0	11.498	34.840	-11.9	6.2
400.0	9.700	34.715		

# EQUALIS - station210

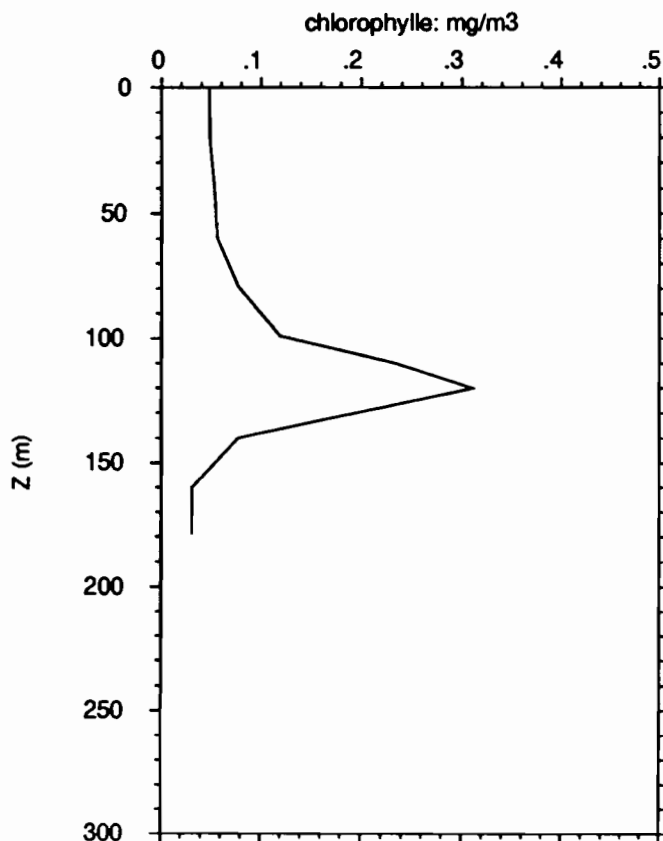
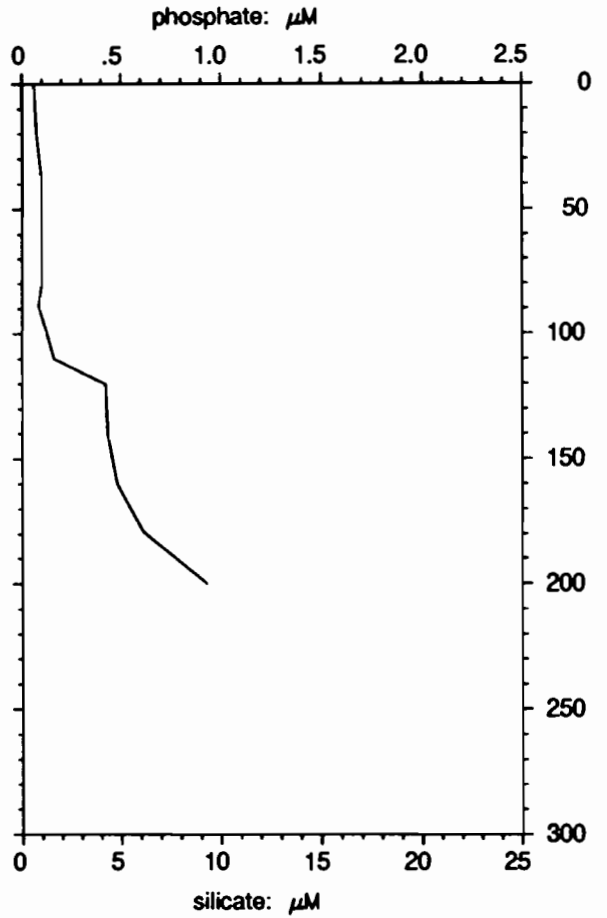
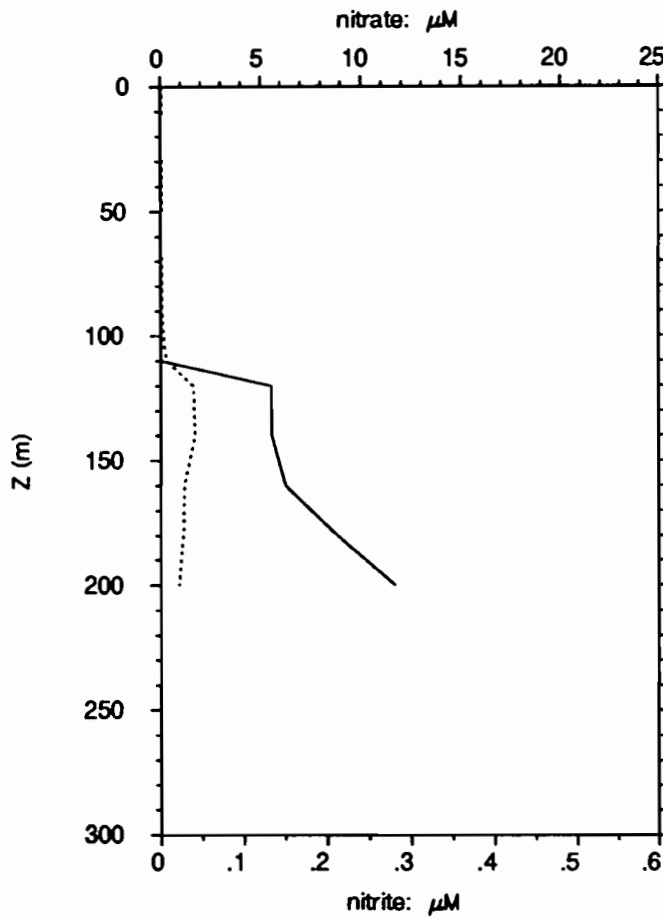
1°45 S 156°10 E

3/12/92, 16h 0 TU

4/12/92, 2h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.002	0.06	
19	0.001	0.001	0.07	
40	0.000	0.002	0.10	
60	0.001	0.001	0.10	
79	0.000	0.002	0.10	
89	0.000	0.002	0.08	
99	0.000	0.003	0.12	
110	0.009	0.007	0.16	
120	5.54	0.039	0.42	
140	5.57	0.041	0.43	
160	6.25	0.028	0.48	
179	8.72	0.027	0.61	
200	11.67	0.022	0.93	

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.15	34.13	0.048	0.022	31.41
19	29.46	34.19	0.048	0.055	53.16
40	29.32	34.26	0.053	0.045	45.94
60	29.27	34.25	0.056	0.057	50.57
79	29.12	34.11	0.077	0.065	45.93
89	28.38	34.32	0.098	0.084	46.36
99	27.80	34.44	0.119	0.128	51.77
110	26.87	34.35	0.234	0.282	54.25
120	24.78	34.95	0.311	0.407	56.66
140	23.52	35.30	0.077	0.127	62.30
160	22.99	35.01	0.031	0.101	76.40
179	20.61	34.63	0.031	0.077	71.00
200	17.82	35.41			

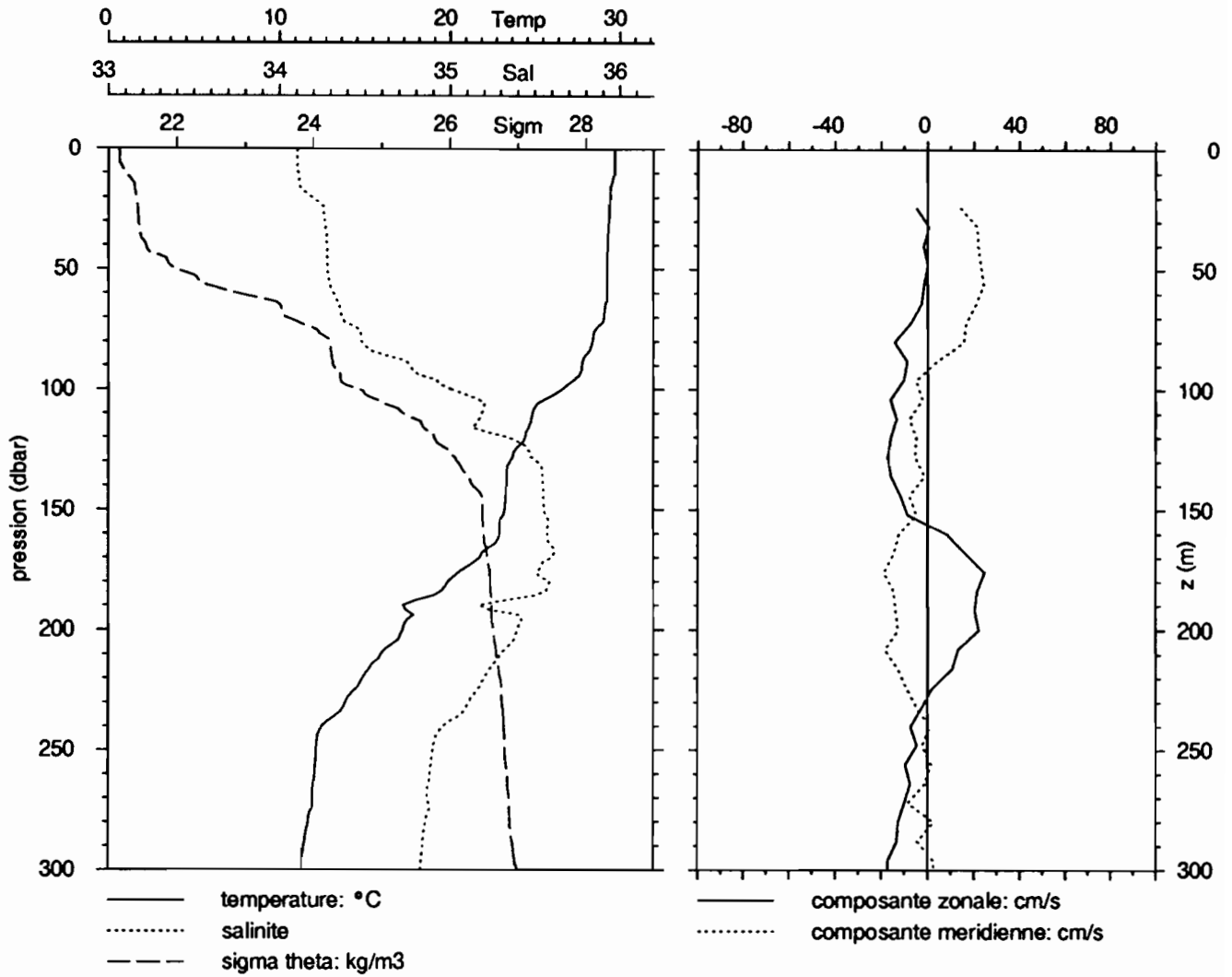


# EQUALIS -station 211

3/12/92, 19h 2 TU

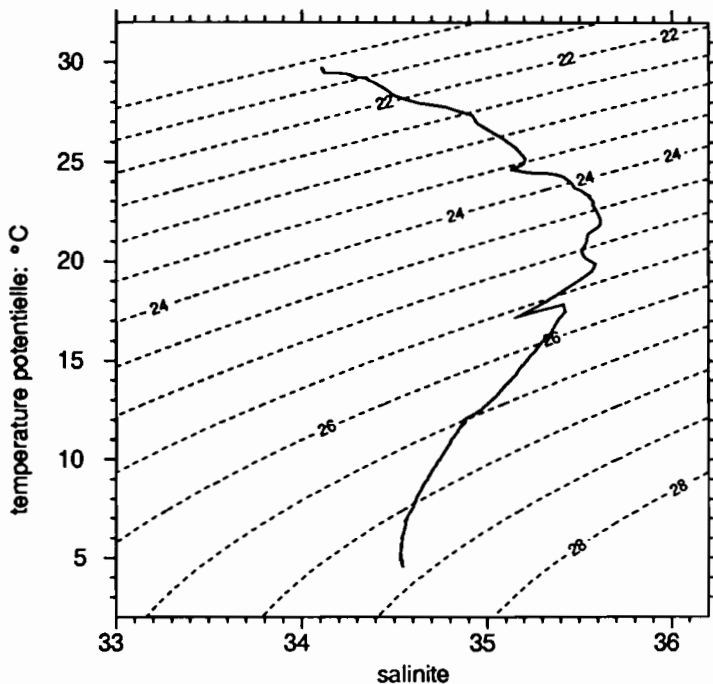
1°45 S 156°10 E

4/12/92, 5h 2 locale



	P	T	S
debut	4.0	29.695	34.106
fin	998.0	4.599	34.545

	Z	U	V
debut	24.0	-4.8	14.2
fin	384.0	-17.6	-9.1



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.691	34.111		
20.0	29.460	34.192		
30.0	29.362	34.265	-0.7	19.8
40.0	29.293	34.279	-1.7	22.0
50.0	29.273	34.285	-0.3	23.4
75.0	28.587	34.461	-9.9	16.3
100.0	26.610	35.007	-13.1	-3.5
125.0	23.894	35.463	-16.6	-5.2
150.0	23.243	35.555	-9.3	-5.6
200.0	17.246	35.401	22.2	-12.7
250.0	12.186	34.900	-5.8	-1.3
300.0	11.293	34.827	-17.2	2.6
400.0	9.626	34.712		
500.0	7.920	34.610		
600.0	6.444	34.553		
700.0	5.953	34.541		
800.0	5.520	34.535		
900.0	4.750	34.539		

# EQUALIS - station211

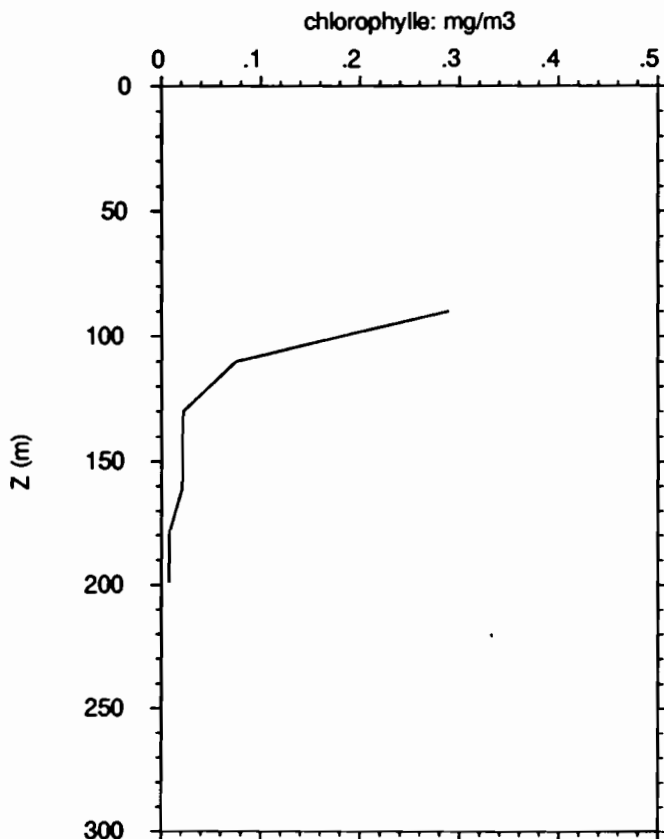
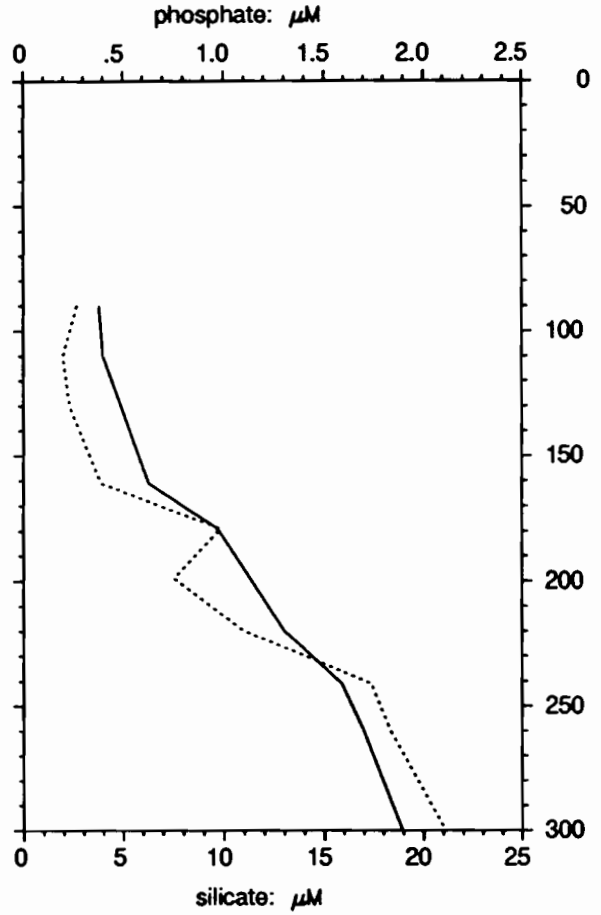
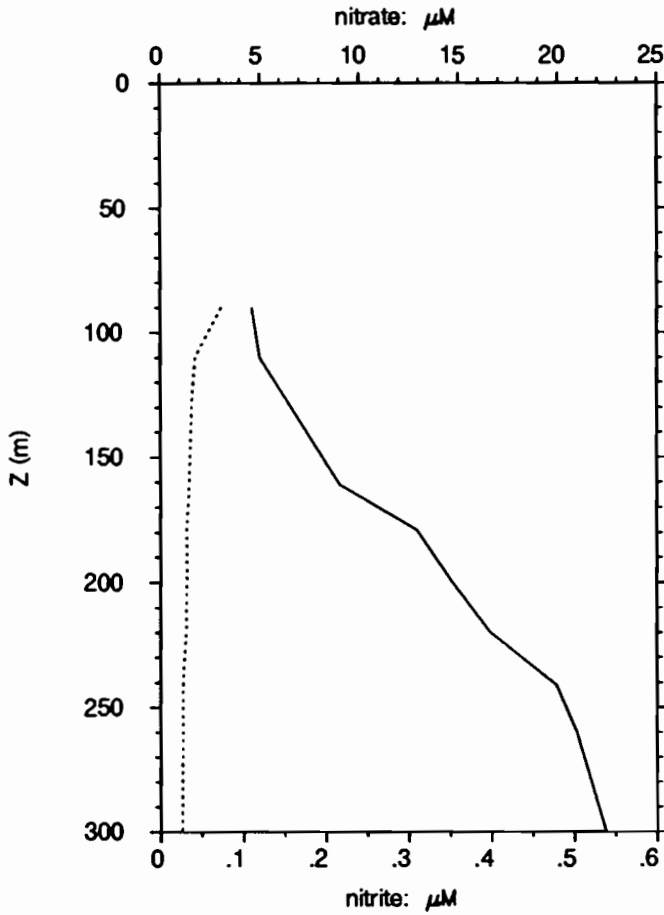
1°45 S 156°10 E

3/12/92, 19h 2 TU

4/12/92, 5h 2 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	4.60	0.074	0.38	2.7
110	5.00	0.042	0.40	2.0
130	6.58	0.038	0.49	2.3
161	9.03	0.035	0.63	3.9
179	12.91	0.032	0.97	9.8
199	14.59	0.032	1.13	7.6
220	16.58	0.031	1.30	11.0
241	19.93	0.027	1.59	17.4
260	20.95	0.027	1.70	18.4
301	22.47	0.026	1.90	21.2
301	22.35	0.025	1.88	21.2
1001	29.09	0.022	2.85	63.8

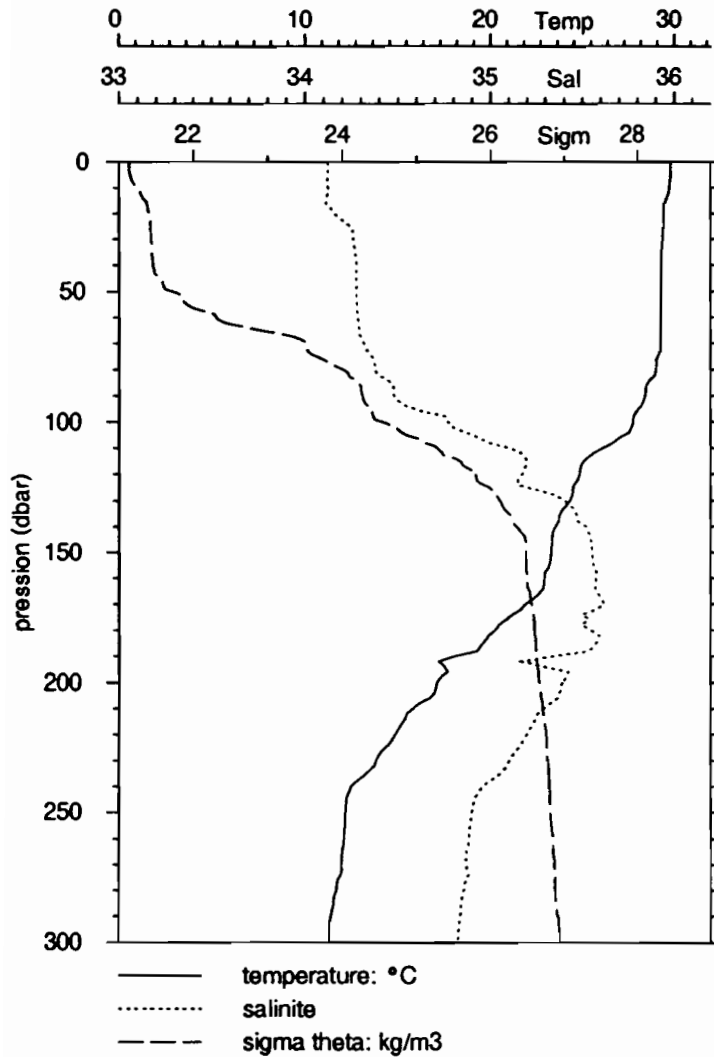
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
90	27.87	34.14	0.289	0.566	66.22
110	25.04	34.84	0.075	0.145	66.06
130	23.87	35.43	0.022	0.075	77.08
161	22.94	35.10	0.021	0.053	71.61
179	20.77	34.82	0.008	0.016	66.79
199	17.34	34.91	0.008	0.016	66.79
220	15.19	33.79			
241	12.73	34.62			
260	12.13	34.73			
301	11.76	34.85			
301	11.32	34.82			
1001	4.60	34.54			

# EQUALIS -station 212

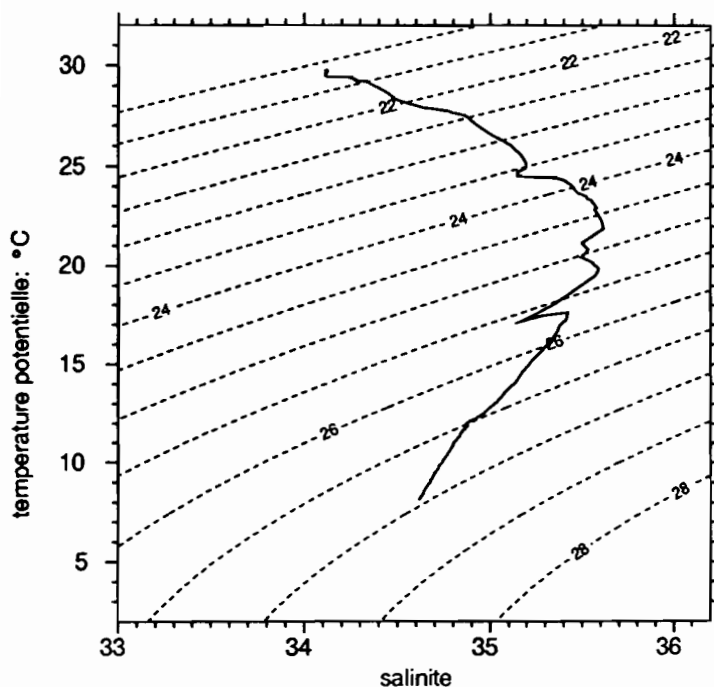
3/12/92, 20h12 TU

1°45 S 156°10 E

4/12/92, 6h12 locale



	P	T	S
debut	6.0	29.799	34.123
fin	500.0	8.187	34.615



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.741	34.126		
20.0	29.440	34.157		
30.0	29.377	34.261		
40.0	29.311	34.277		
50.0	29.274	34.275		
75.0	29.111	34.357		
100.0	27.766	34.770		
125.0	24.508	35.201		
150.0	23.310	35.553		
200.0	17.088	35.389		
250.0	12.181	34.898		
300.0	11.265	34.823		
400.0	9.591	34.707		
500.0	8.187	34.615		

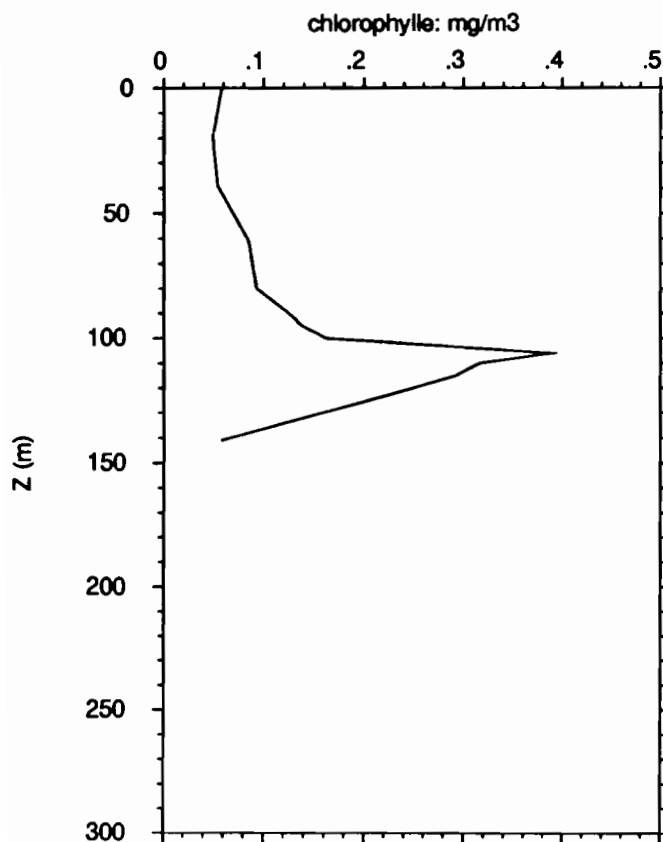
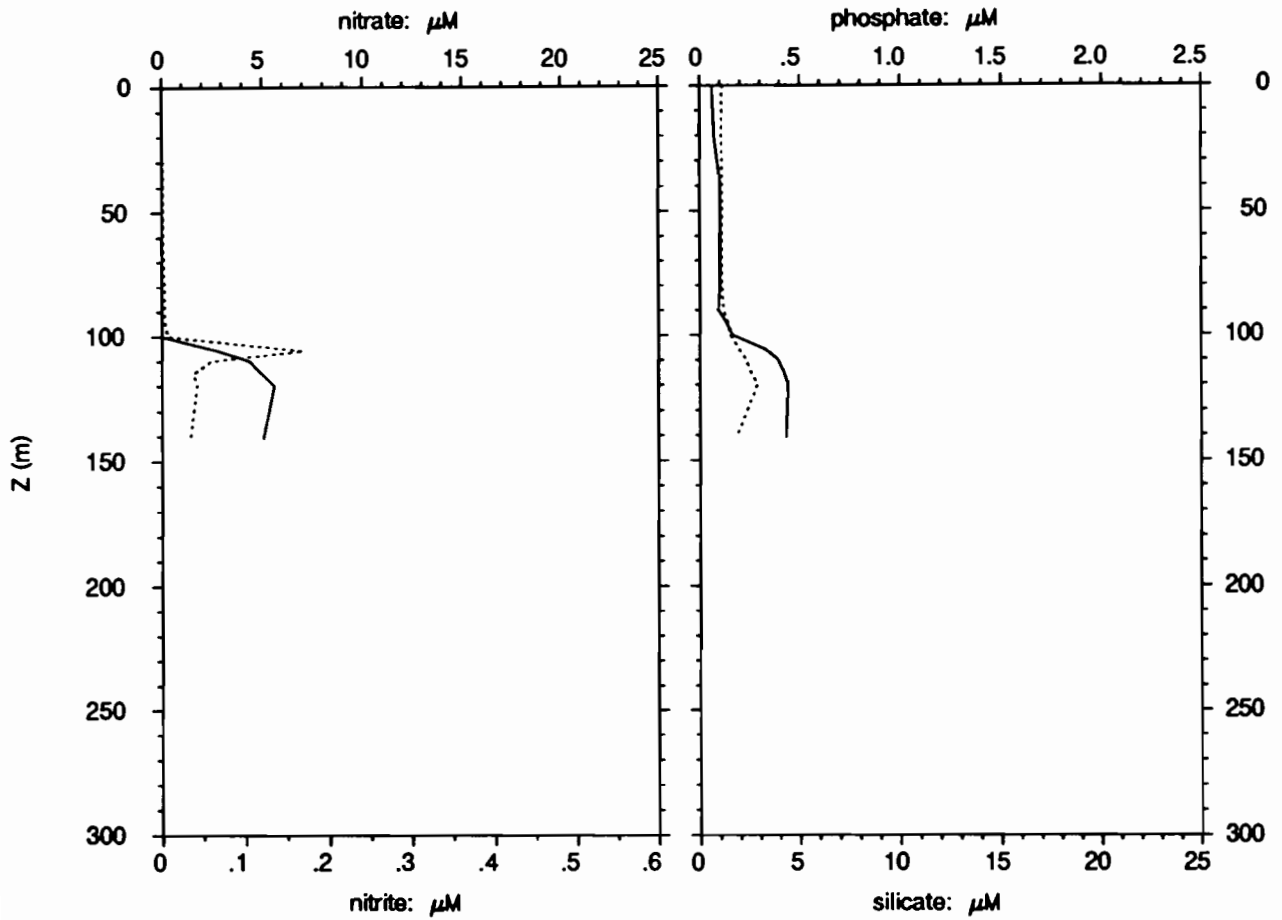
# EQUALIS - station212

1°45 S 156°10 E

3/12/92, 20h12 TU

4/12/92, 6h12 locale

— nitrate  
 - - - nitrite  
 — phosphate  
 - - - silicate



Z	NO3	NO2	PO4	SiO2
m	μM	μM	μM	μM
0	0.002	0.001	0.06	1.1
20	0.001	0.001	0.07	1.1
39	0.002	0.002	0.10	1.1
61	0.002	0.002	0.10	1.1
80	0.002	0.003	0.10	1.1
90	0.001	0.003	0.09	1.2
95	0.002	0.004	0.13	1.4
100	0.018	0.007	0.16	1.5
106	2.88	0.169	0.33	2.0
110	4.38	0.059	0.39	2.3
115	4.99	0.038	0.42	2.5
120	5.61	0.042	0.44	2.9
141	5.07	0.034	0.43	1.8

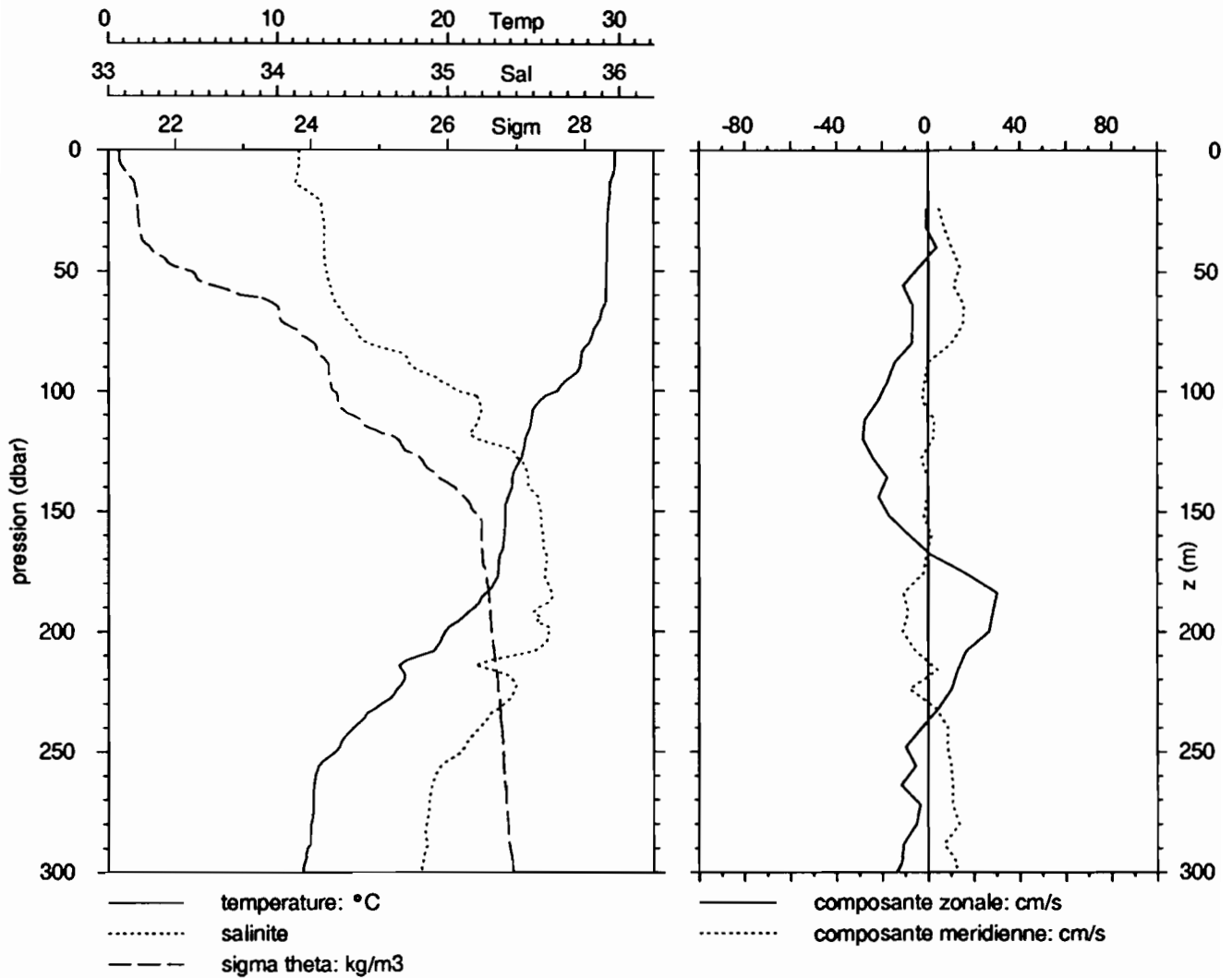
Z	T	S	Chl	Pheo	%Pheo
m	°C		mg/m3	mg/m3	%
0	29.92	34.15	0.058	0.057	49.57
20	29.44	34.18	0.049	0.073	59.97
39	29.30	34.26	0.054	0.049	47.36
61	29.25	34.21	0.085	0.069	44.85
80	28.69	34.26	0.093	0.081	46.63
90	28.20	34.42	0.125	0.107	45.99
95	27.76	34.59	0.138	0.147	51.58
100	26.93	34.68	0.162	0.206	55.94
106	25.60	34.86	0.389	0.411	51.40
110	25.03	35.02	0.316	0.387	55.04
115	24.86	35.05	0.292	0.364	55.53
120	24.63	34.73	0.249	0.303	54.85
141	23.39	35.51	0.058	0.114	66.25

# EQUALIS -station 213

3/12/92, 22h 3 TU

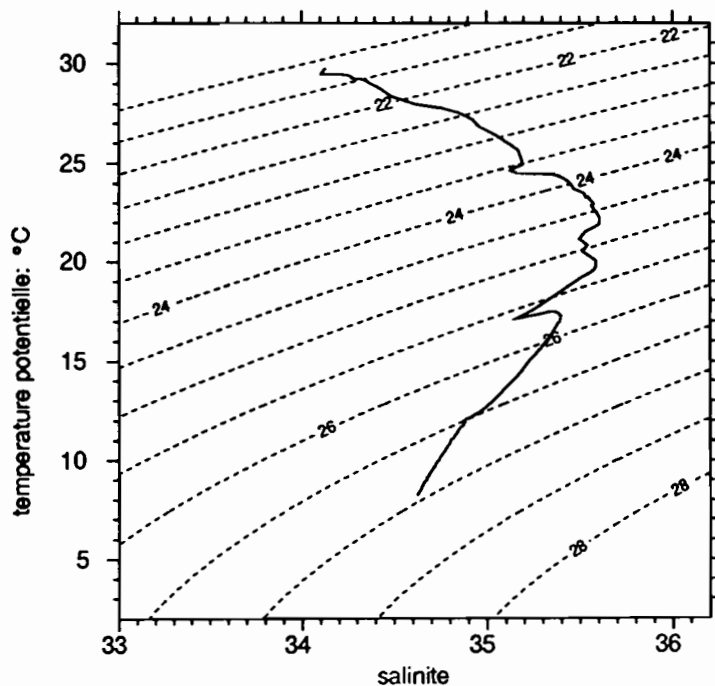
1°45 S 156°10 E

4/12/92, 8h 3 locale



	P	T	S
debut	6.0	29.744	34.130
fin	500.0	8.273	34.625

	Z	U	V
debut	24.0	-0.9	4.8
fin	400.0	-3.9	6.8



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.656	34.119		
20.0	29.422	34.242		
30.0	29.319	34.276	-0.8	6.6
40.0	29.279	34.277	3.7	10.3
50.0	29.251	34.289	-5.5	13.2
75.0	28.488	34.470	-6.8	13.4
100.0	26.402	35.052	-19.7	-2.0
125.0	24.393	35.373	-25.7	-1.0
150.0	23.327	35.540	-18.1	-1.4
200.0	19.858	35.589	26.6	-11.0
250.0	13.446	35.079	-8.6	8.8
300.0	11.519	34.846	-13.8	12.1
400.0	9.742	34.719		
500.0	8.273	34.625		

# EQUALIS - station213

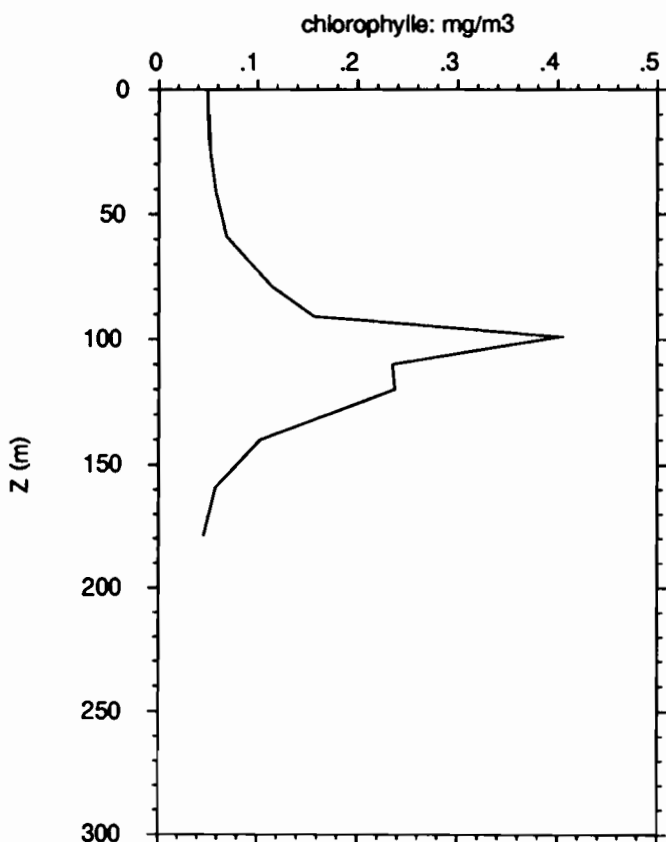
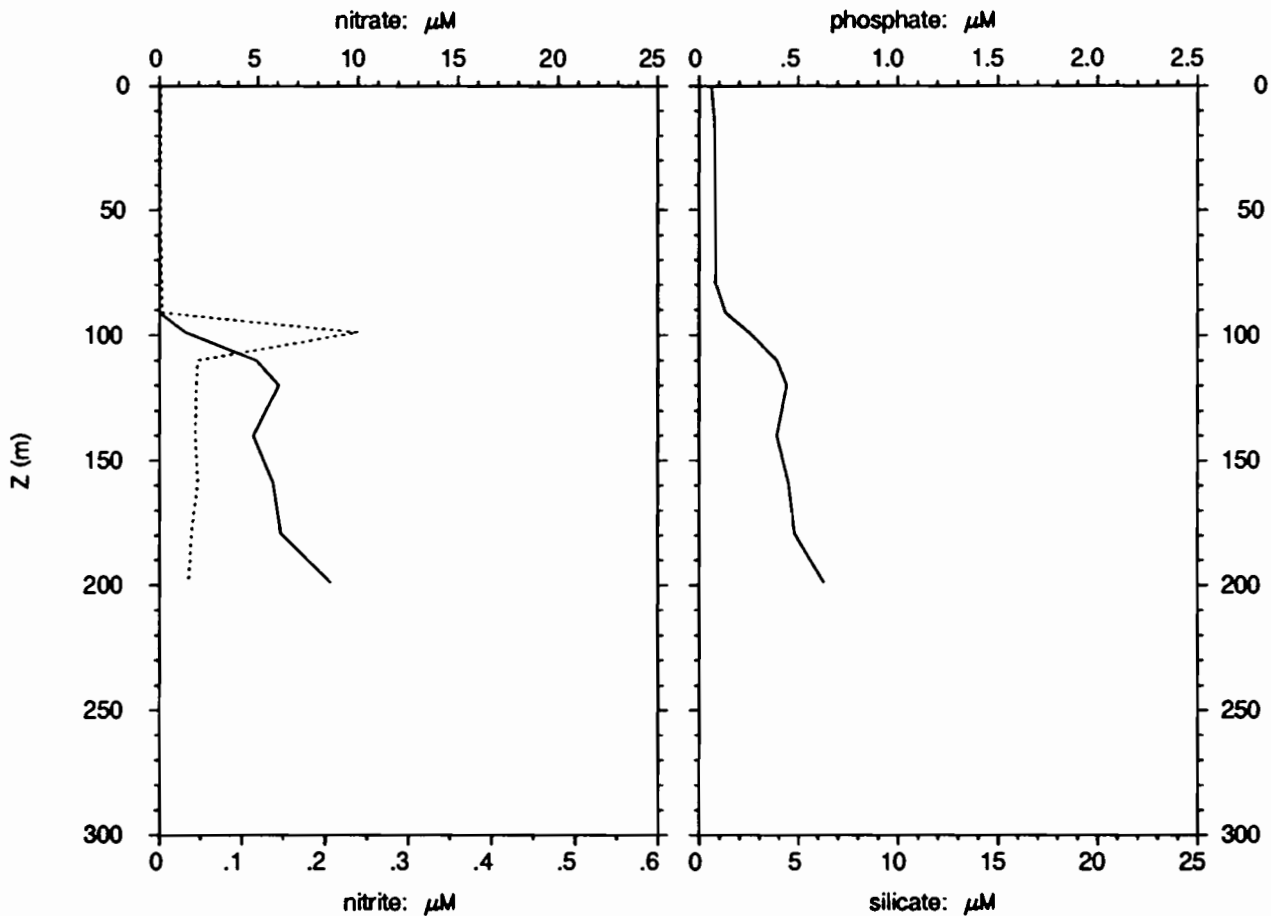
1°45 S 156°10 E

3/12/92, 22h 3 TU

4/12/92, 8h 3 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.002	0.06	
20	0.002	0.002	0.08	
41	0.002	0.002	0.09	
59	0.002	0.002	0.09	
79	0.001	0.003	0.08	
91	0.001	0.003	0.13	
99	1.340	0.239	0.25	
110	4.92	0.047	0.39	
120	6.04	0.045	0.44	
140	4.77	0.044	0.39	
159	5.75	0.047	0.45	
179	6.13	0.039	0.48	
199	8.62	0.036	0.63	

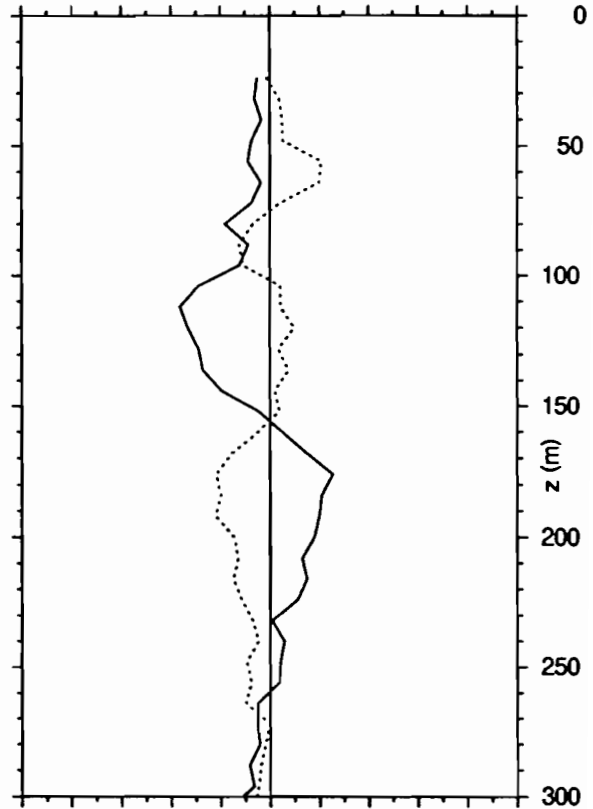
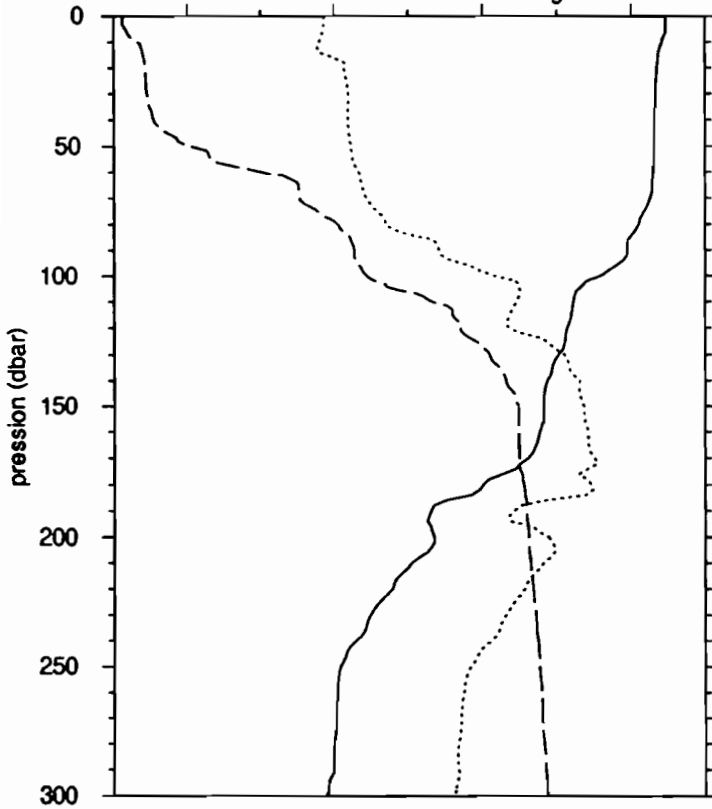
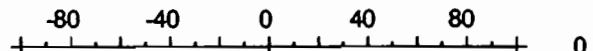
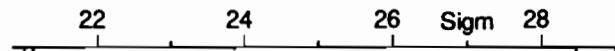
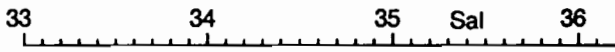
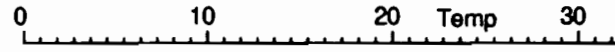
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.27	34.15	0.050	0.041	44.93
20	29.38	34.24	0.051	0.057	52.98
41	29.27	34.28	0.058	0.062	51.65
59	29.22	34.32	0.069	0.095	58.15
79	28.32	34.38	0.115	0.098	45.99
91	27.79	34.76	0.157	0.148	48.51
99	26.27	34.82	0.402	0.411	50.58
110	24.94	35.10	0.235	0.312	57.01
120	24.63	34.94	0.237	0.322	57.56
140	23.78	34.37	0.103	0.151	59.40
159	23.33	35.34	0.058	0.118	66.86
179	22.90	34.83	0.046	0.098	68.21
199	20.04	35.53			

# EQUALIS -station 214

4/12/92, 0h58 TU

1°45 S 156°10 E

4/12/92, 10h58 locale

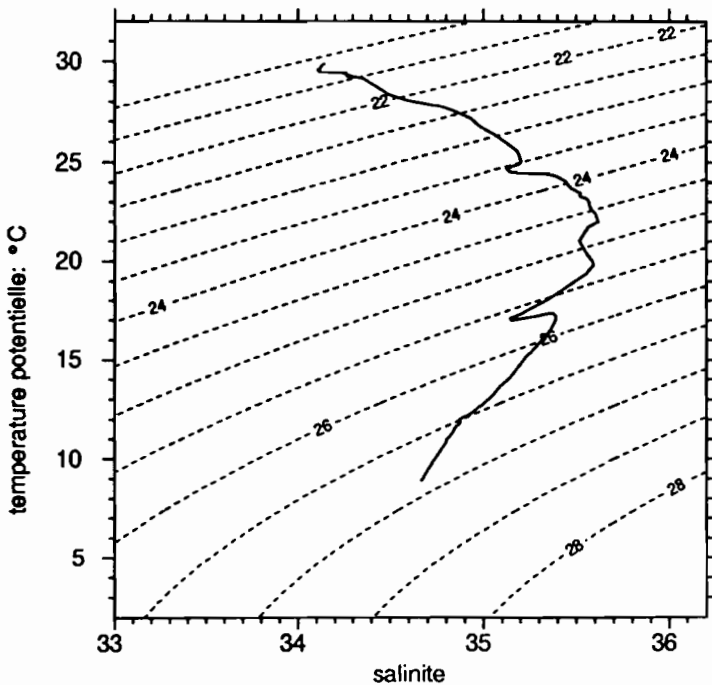


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.890	34.144
fin	502.0	8.949	34.664

	Z	U	V
debut	24.0	-5.0	-1.4
fin	320.0	-3.0	-3.6



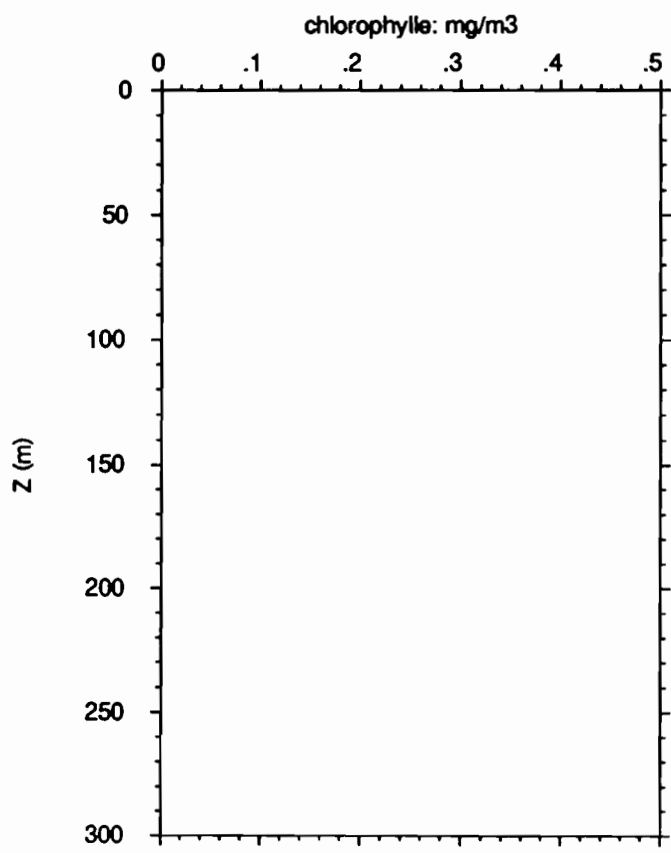
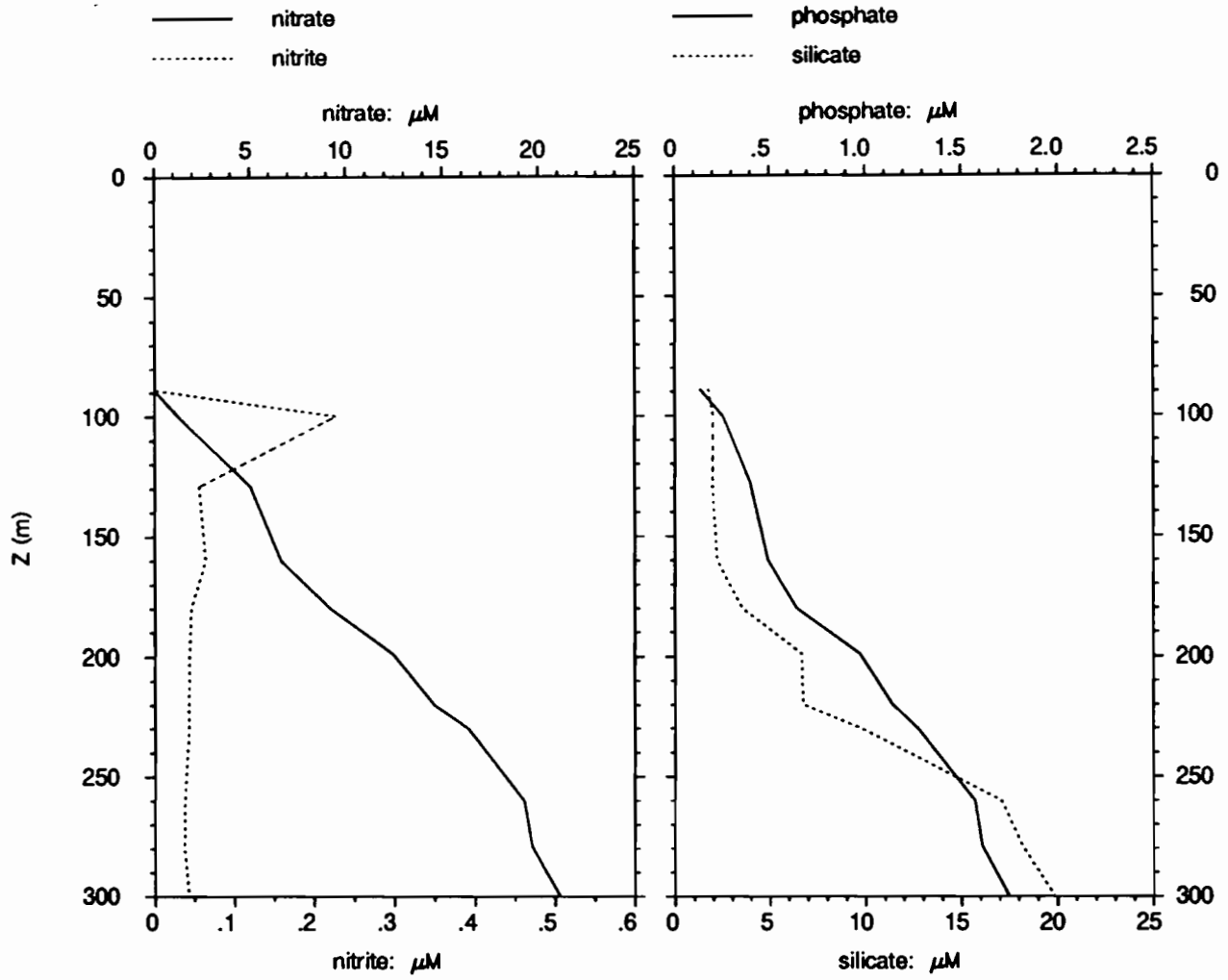
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.674	34.122		
20.0	29.401	34.250		
30.0	29.318	34.278	-5.8	2.5
40.0	29.270	34.277	-3.3	5.1
50.0	29.257	34.293	-7.8	9.1
75.0	28.717	34.434	-11.5	0.0
100.0	26.348	35.068	-20.7	-3.3
125.0	24.455	35.342	-30.6	5.8
150.0	23.276	35.544	-8.4	3.3
200.0	17.399	35.357	17.9	-14.5
250.0	12.343	34.935	4.1	-8.9
300.0	11.598	34.848	-11.0	-5.6
400.0	10.052	34.740		
500.0	8.963	34.667		

# EQUALIS - station214

1°45 S 156°10 E

4/12/92, 0h58 TU

4/12/92, 10h58 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
89	0.000	0.002	0.13	1.7
100	1.270	0.230	0.25	2.0
110				
129	5.01	0.056	0.40	2.0
160	6.62	0.064	0.49	2.2
180	9.21	0.046	0.64	3.5
199	12.45	0.044	0.97	6.7
220	14.56	0.043	1.14	6.7
230	16.32	0.043	1.27	9.7
260	19.23	0.038	1.57	17.1
279	19.64	0.037	1.61	18.2
300	21.10	0.043	1.75	19.9

Z m	T °C	S	Chl mg/m <sup>3</sup>	Pheo mg/m <sup>3</sup>	%Pheo %
89	27.78	34.33			
100	26.23	34.71			
110	24.87	34.99			
129	24.08	35.42			
160	23.18	34.98			
180	20.14	34.74			
199	17.28	35.23			
220	15.26	35.17			
230	13.69	33.96			
260	12.20	34.84			
279	12.09	34.66			
300	11.72	34.84			

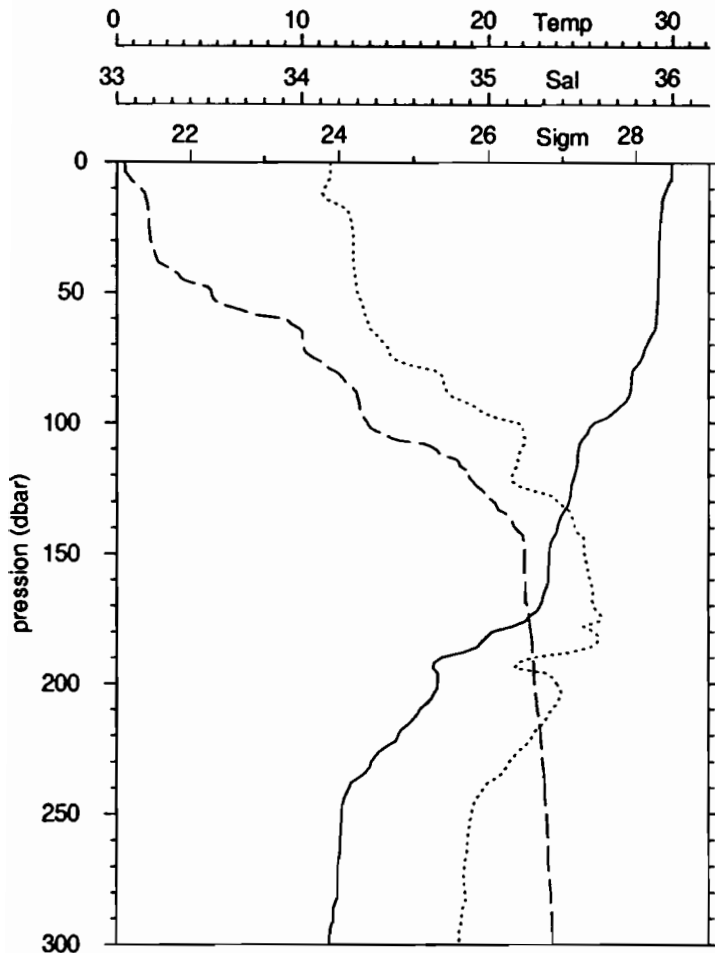


# EQUALIS -station 215

1°45 S 156°10 E

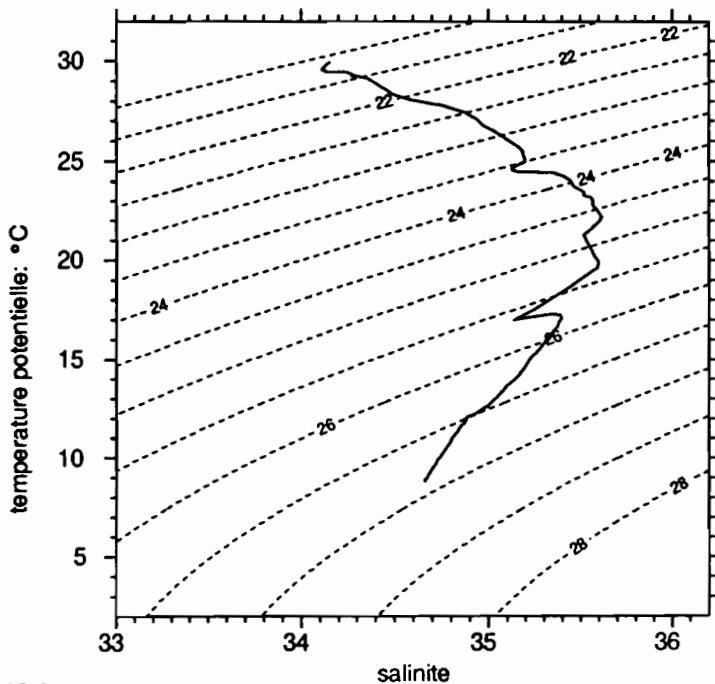
4/12/92, 1h44 TU

4/12/92, 11h44 locale



— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

	P	T	S
debut	6.0	29.955	34.154
fin	506.0	8.843	34.659



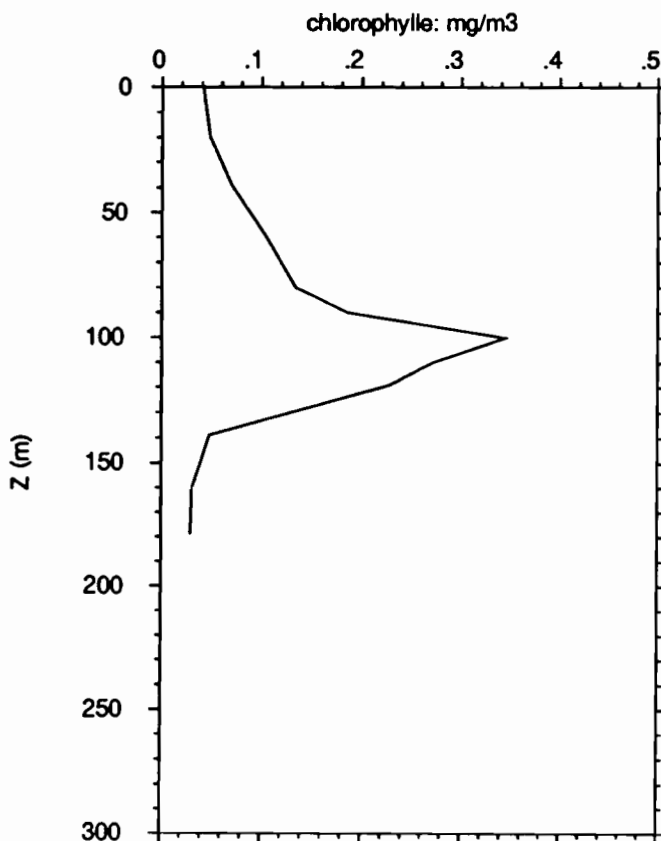
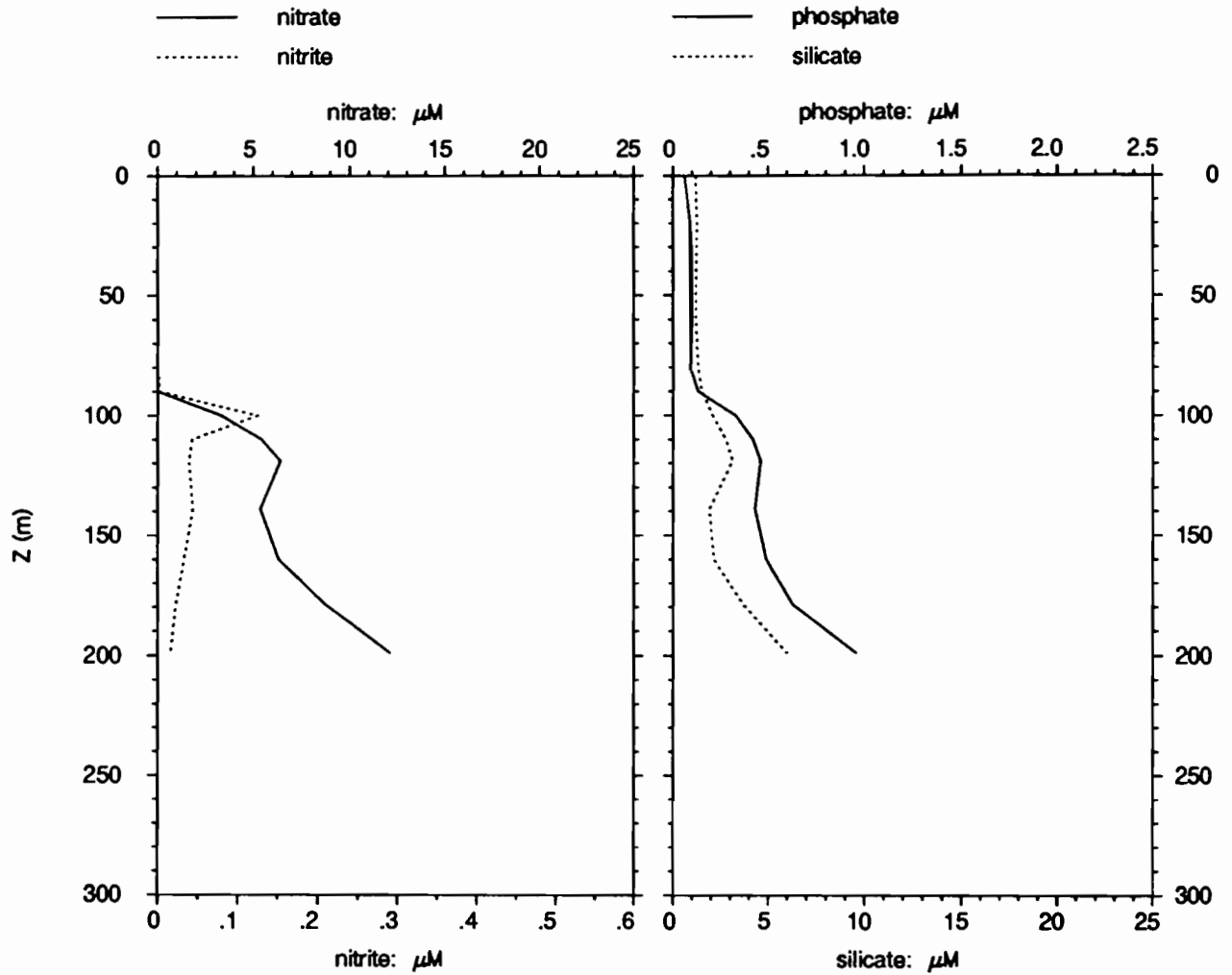
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.688	34.122		
20.0	29.383	34.258		
30.0	29.297	34.278		
40.0	29.276	34.280		
50.0	29.250	34.299		
75.0	28.370	34.491		
100.0	25.748	35.161		
125.0	24.501	35.202		
150.0	23.297	35.523		
200.0	17.302	35.370		
250.0	12.195	34.911		
300.0	11.473	34.842		
400.0	9.911	34.729		
500.0	8.931	34.664		

# EQUALIS - station215

1°45 S 156°10 E

4/12/92, 1h44 TU

4/12/92, 11h44 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.000	0.06	1.2
20	0.000	0.000	0.09	1.3
39	0.001	0.000	0.10	1.2
60	0.001	0.000	0.10	1.2
80	0.002	0.001	0.09	1.3
90	0.000	0.002	0.13	1.5
100	3.33	0.125	0.33	2.1
110	5.43	0.043	0.42	2.8
119	6.40	0.039	0.46	3.1
139	5.36	0.044	0.43	1.9
160	6.31	0.033	0.49	2.1
179	8.74	0.023	0.63	3.7
199	12.11	0.016	0.96	6.0

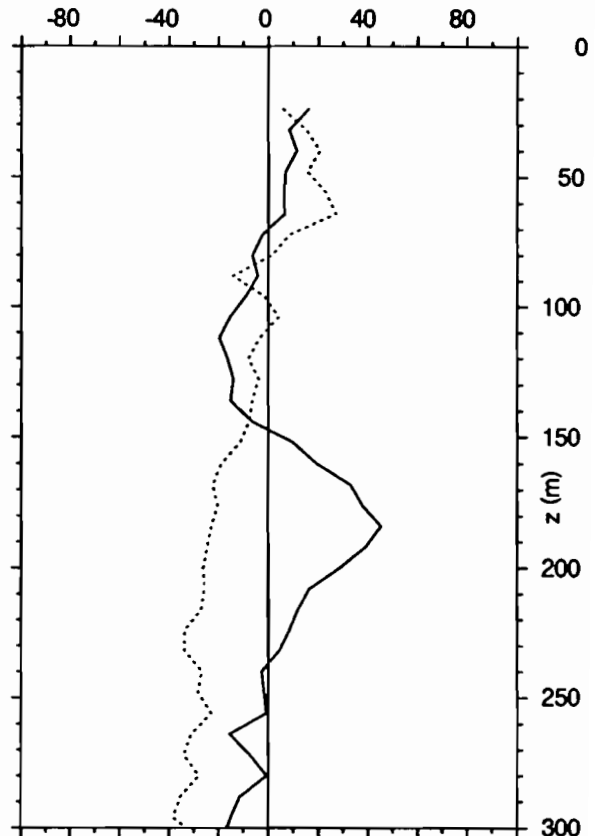
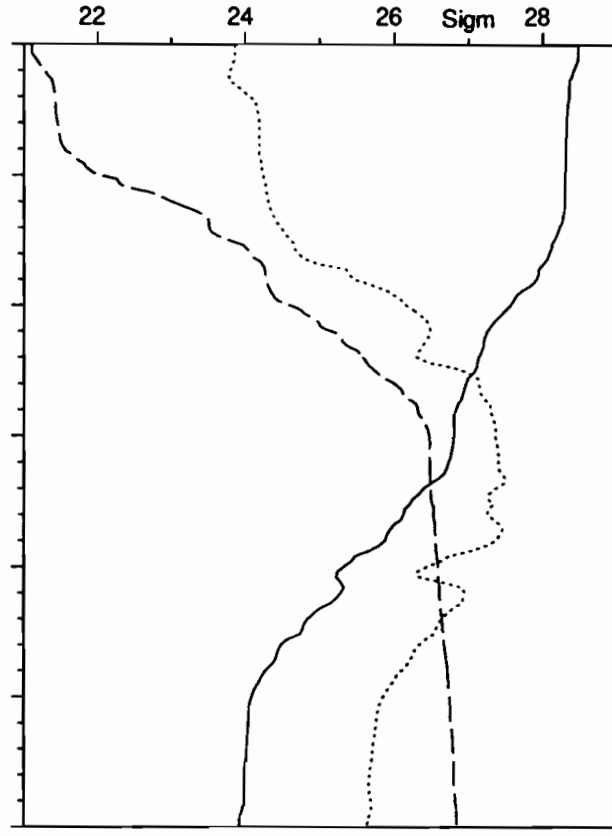
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	31.07	34.20	0.041	0.025	37.72
20	29.37	34.21	0.048	0.049	50.39
39	29.28	34.23	0.070	0.061	46.43
60	29.14	33.98	0.105	0.111	51.43
80	27.94	34.57	0.134	0.127	48.60
90	27.66	34.32	0.186	0.176	48.53
100	25.52	35.02	0.345	0.394	53.27
110	24.86	34.96	0.271	0.395	59.38
119	24.50	34.99	0.228	0.295	56.37
139	23.44	35.26	0.048	0.151	75.99
160	23.16	34.24	0.031	0.096	75.77
179	20.57	34.34	0.029	0.092	75.91
199	17.28	35.32			

# EQUALIS -station 217

4/12/92, 4h 0 TU

1°45 S 156°10 E

4/12/92, 14h 0 locale

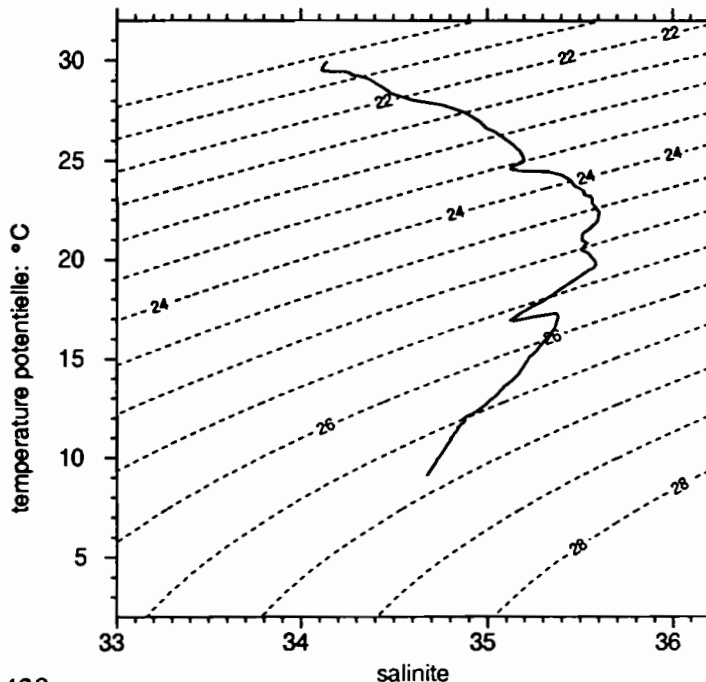


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.937	34.144
fin	498.0	9.143	34.676

	Z	U	V
debut	24.0	16.2	6.0
fin	352.0	-10.1	-24.4



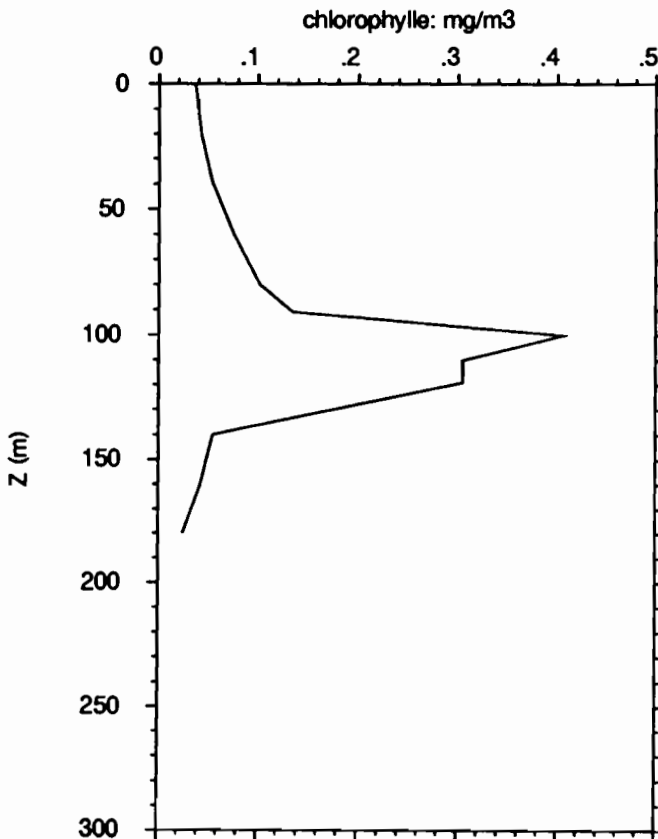
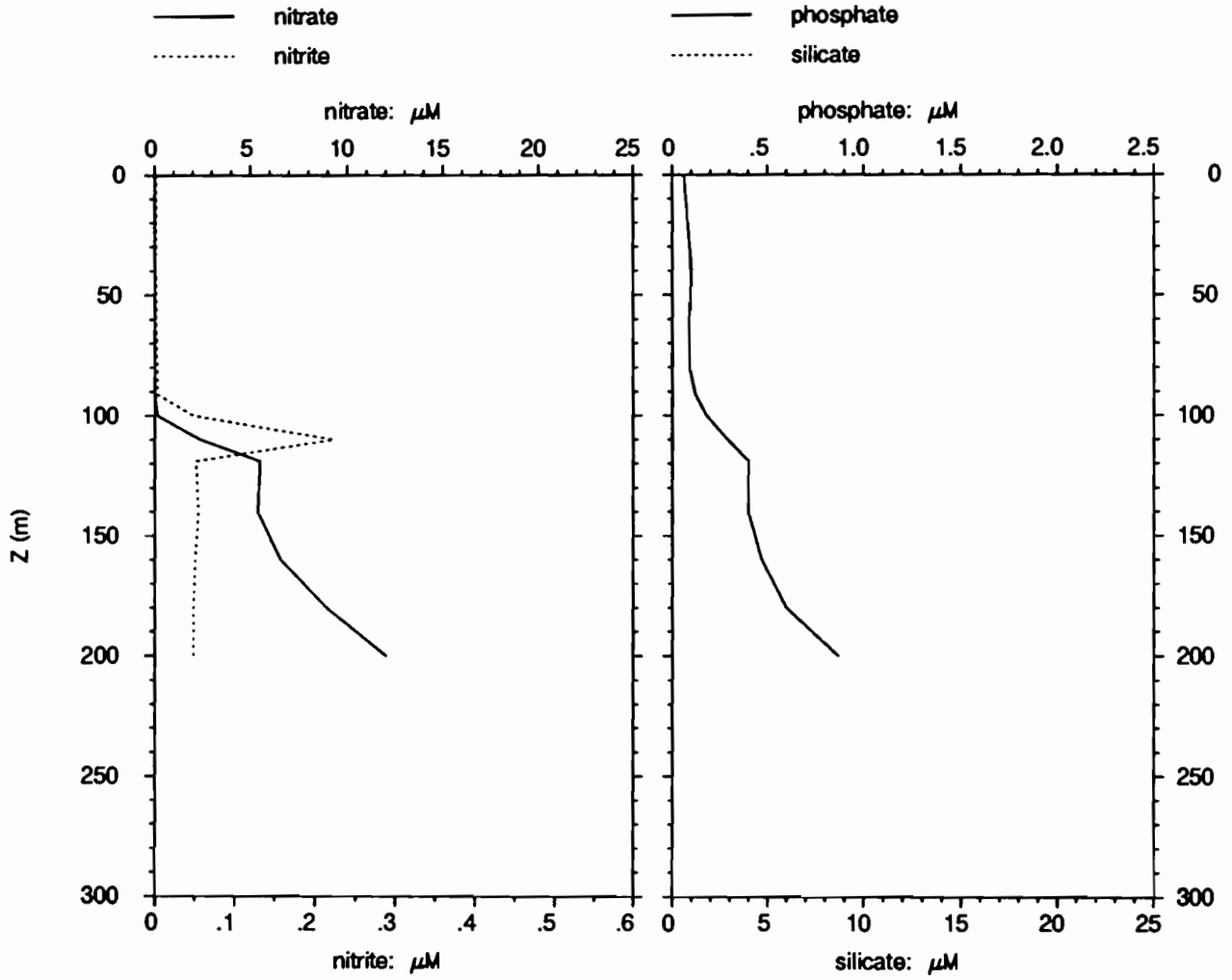
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.698	34.123		
20.0	29.472	34.225		
30.0	29.332	34.278	10.4	12.9
40.0	29.284	34.279	11.5	20.7
50.0	29.257	34.298	6.8	17.5
75.0	28.634	34.451	-3.7	5.9
100.0	26.308	35.068	-12.0	1.3
125.0	24.394	35.362	-14.8	-5.3
150.0	23.242	35.546	5.8	-10.2
200.0	17.317	35.178	28.6	-26.1
250.0	12.391	34.943	-1.4	-26.9
300.0	11.726	34.859	-16.6	-33.1
400.0	10.255	34.755		

# EQUALIS - station217

1°45 S 156°10 E

4/12/92, 4h 0 TU

4/12/92, 14h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.002	0.06	
20	0.000	0.002	0.08	
39	0.000	0.002	0.10	
60	0.000	0.002	0.09	
80	0.000	0.003	0.09	
91	0.000	0.003	0.12	
100	0.157	0.049	0.18	
110	2.39	0.223	0.29	
119	5.50	0.052	0.40	
140	5.39	0.055	0.40	
160	6.56	0.051	0.47	
180	8.94	0.049	0.60	
200	12.01	0.049	0.87	

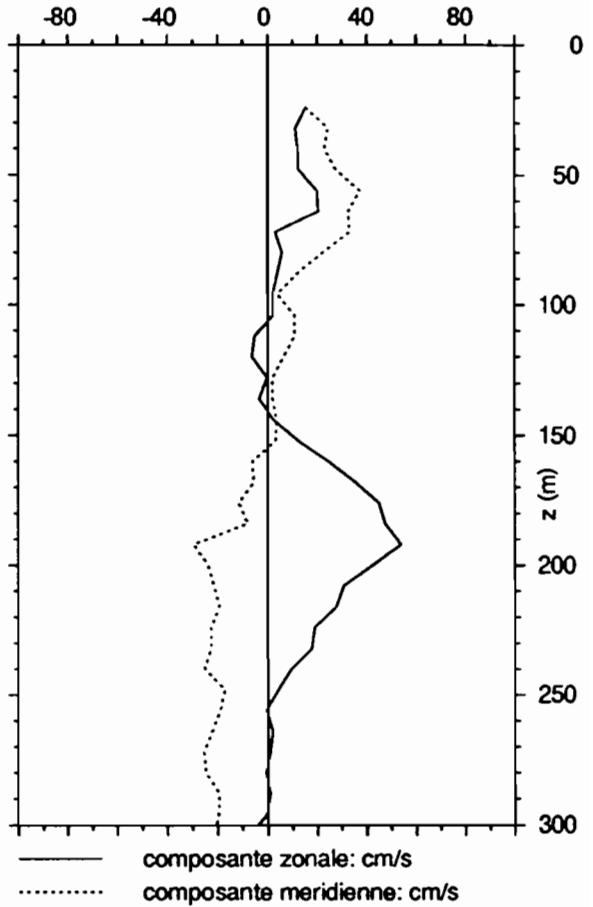
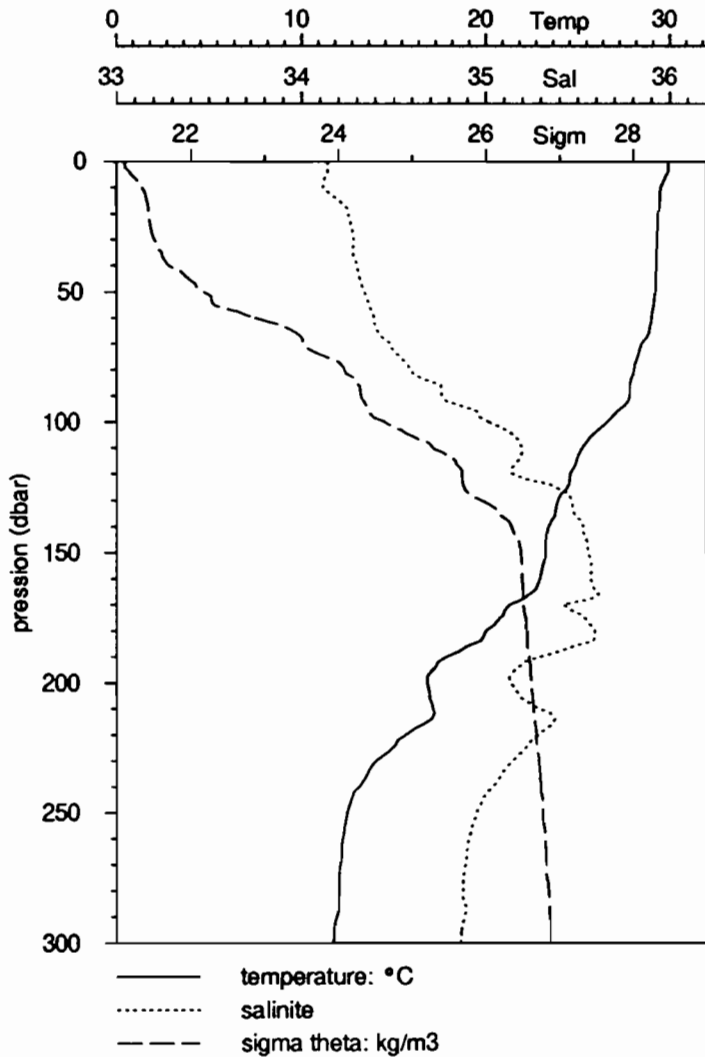
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.28	34.16	0.037	0.021	36.34
20	29.46	34.17	0.043	0.019	30.44
39	29.30	34.27	0.054	0.049	47.86
60	29.22	34.22	0.076	0.072	48.72
80	28.49	34.28	0.102	0.084	45.27
91	27.82	34.72	0.135	0.134	49.94
100	26.72	34.62	0.407	0.511	55.64
110	25.73	34.60	0.305	0.476	60.97
119	24.84	34.74	0.305	0.420	57.96
140	23.59	35.18	0.055	0.144	72.48
160	23.11	34.51	0.043	0.110	71.98
180	20.81	34.12	0.025	0.062	71.24
200	17.56	35.16			

# EQUALIS -station 218

4/12/92, 7h 4 TU

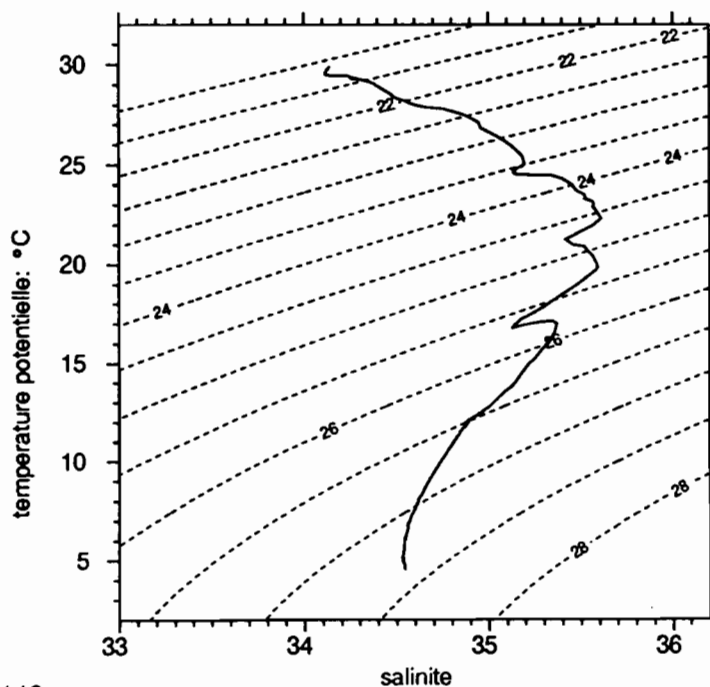
1°45 S 156°10 E

4/12/92, 17h 4 locale



	P	T	S
debut	4.0	29.902	34.139
fin	998.0	4.618	34.545

	Z	U	V
debut	24.0	15.4	15.3
fin	352.0	-12.8	-9.0



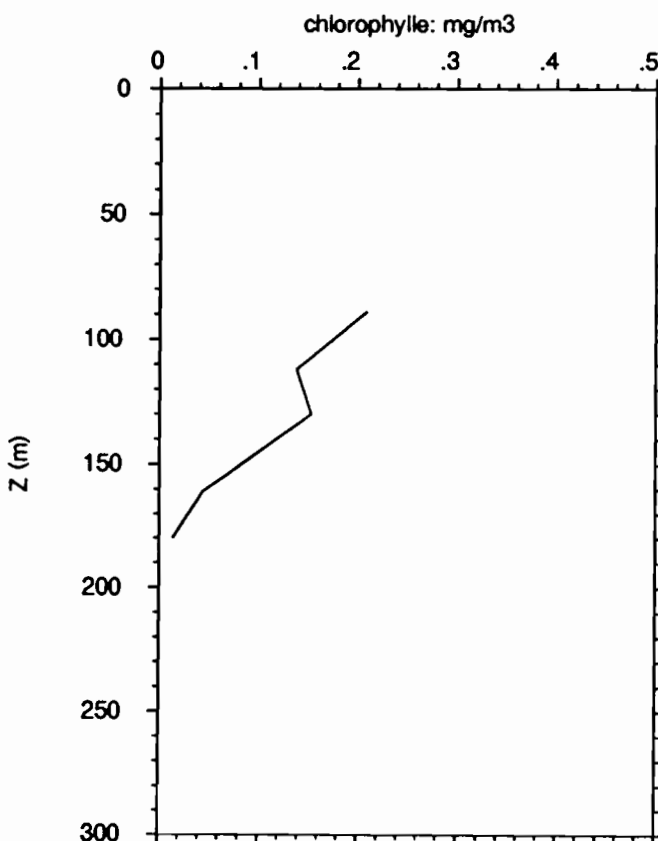
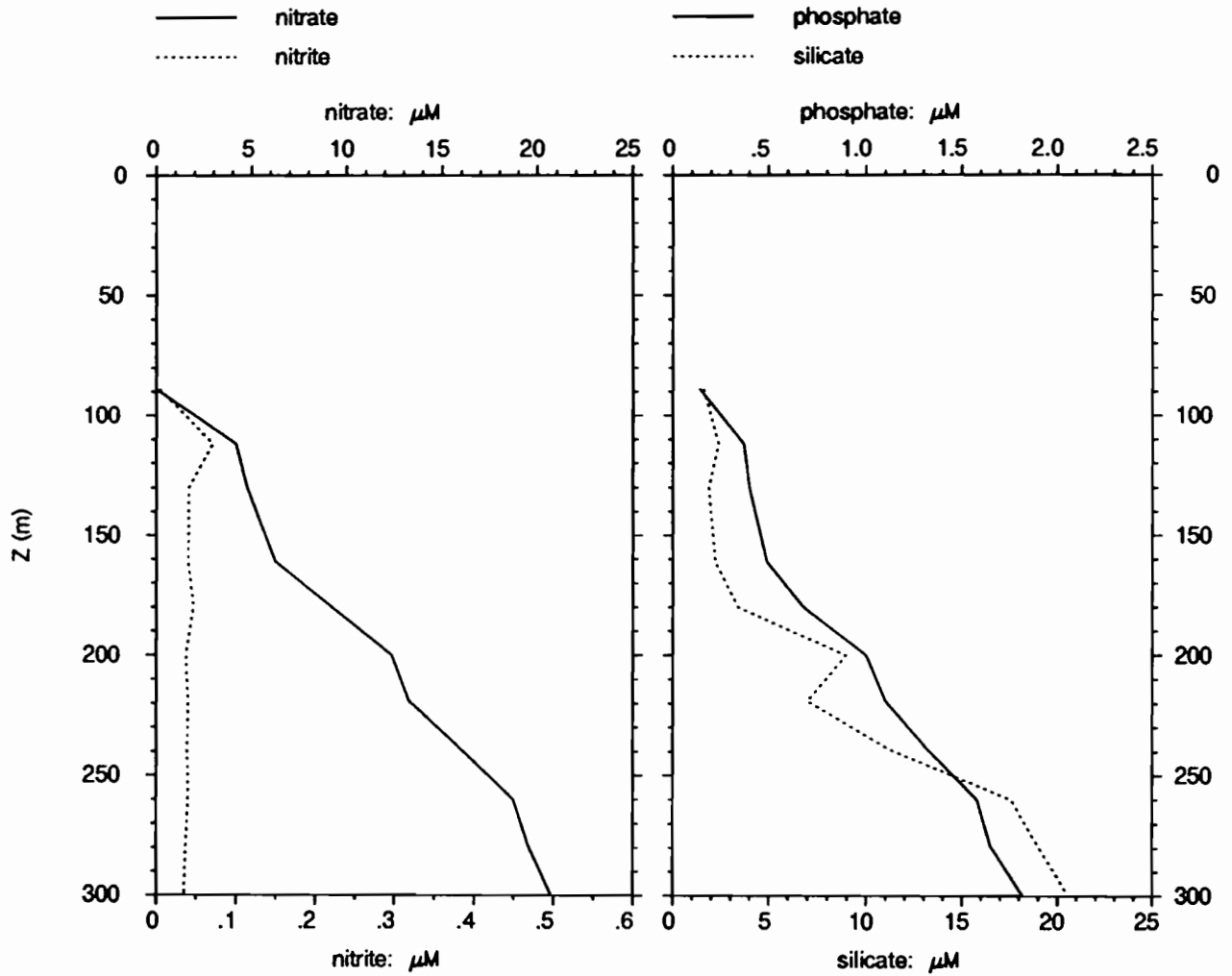
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.508	34.116		
20.0	29.375	34.250		
30.0	29.313	34.281	12.3	22.2
40.0	29.274	34.298	12.1	23.1
50.0	29.206	34.341	14.5	30.1
75.0	28.257	34.529	4.2	29.2
100.0	26.605	35.015	2.1	7.4
125.0	24.408	35.371	-2.6	3.6
150.0	23.228	35.555	9.8	3.2
200.0	16.796	35.129	42.3	-23.8
250.0	12.437	34.948	3.0	-17.5
300.0	11.658	34.856	-3.9	-20.5
400.0	10.161	34.749		
500.0	8.979	34.670		
600.0	6.952	34.561		
700.0	6.143	34.543		
800.0	5.706	34.539		
900.0	4.930	34.537		

# EQUALIS - station218

1°45 S 156°10 E

4/12/92, 7h 4 TU

4/12/92, 17h 4 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
89	0.000	0.004	0.14	1.6
112	4.17	0.071	0.37	2.4
130	4.75	0.041	0.40	1.9
161	6.23	0.040	0.49	2.2
180	9.20	0.047	0.68	3.4
200	12.36	0.037	1.00	9.0
219	13.28	0.040	1.10	7.0
239	15.96	0.039	1.32	11.2
260	18.74	0.040	1.58	17.6
279	19.52	0.037	1.65	19.0
300	20.71	0.035	1.82	20.6
1000	27.71	0.026	2.81	63.0

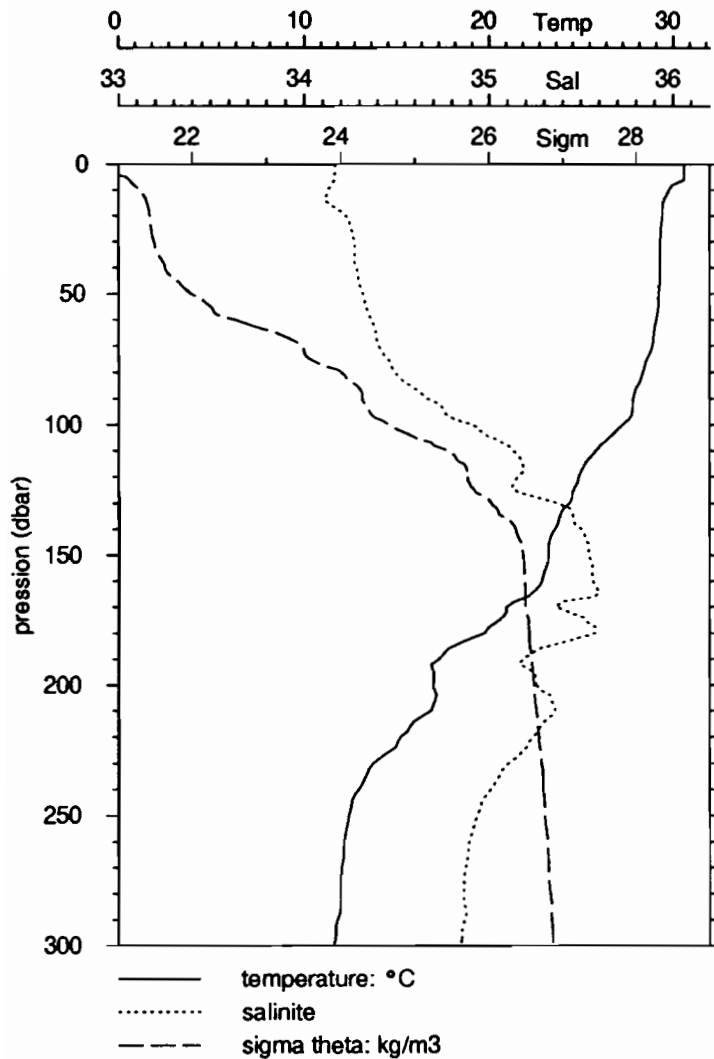
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
89	27.51	34.22	0.209	0.180	46.29
112	25.13	34.92	0.138	0.181	56.69
130	23.96	35.01	0.153	0.205	57.28
161	22.87	34.95	0.044	0.103	69.89
180	19.87	34.30	0.014	0.046	76.68
200	16.85	34.94			
219	15.53	34.59			
239	13.06	34.58			
260	12.16	34.75			
279	11.99	34.68			
300	11.57	34.83			
1000	4.62	34.54			

# EQUALIS -station 219

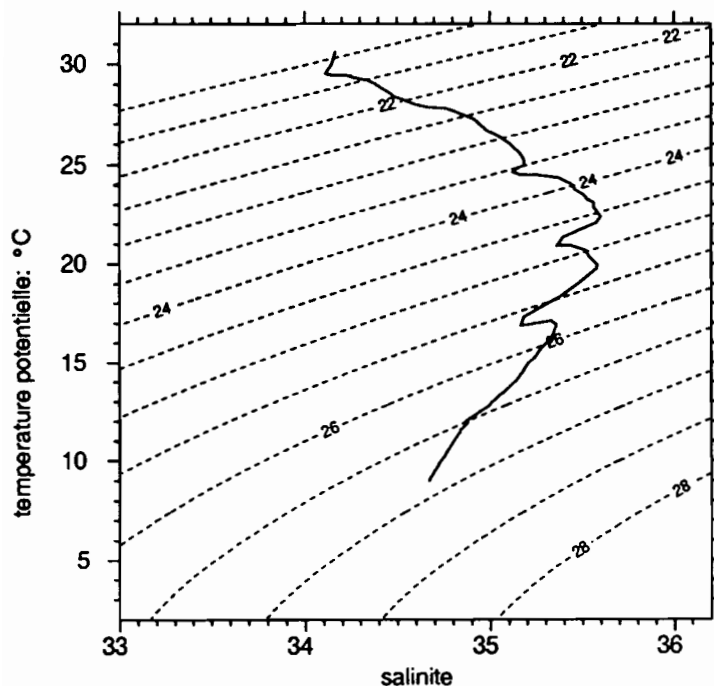
4/12/92, 7h55 TU

1° 45 S 156° 10 E

4/12/92, 17h55 locale



	P	T	S
debut	6.0	30.626	34.167
fin	498.0	9.014	34.667



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.792	34.130		
20.0	29.442	34.226		
30.0	29.327	34.273		
40.0	29.286	34.283		
50.0	29.237	34.320		
75.0	28.604	34.453		
100.0	27.248	34.917		
125.0	24.603	35.142		
150.0	23.225	35.546		
200.0	17.025	35.256		
250.0	12.438	34.938		
300.0	11.608	34.844		
400.0	10.124	34.741		

# EQUALIS - station219

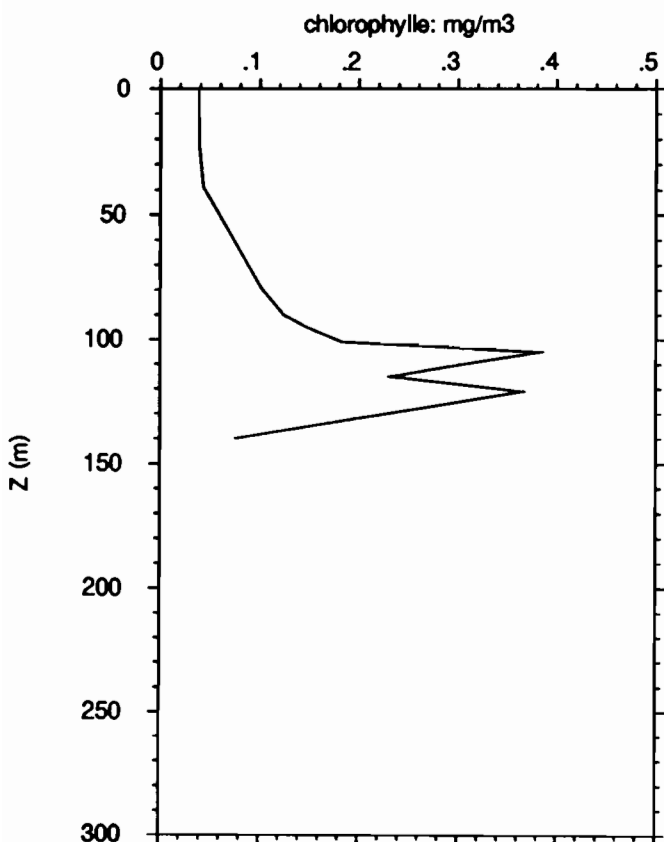
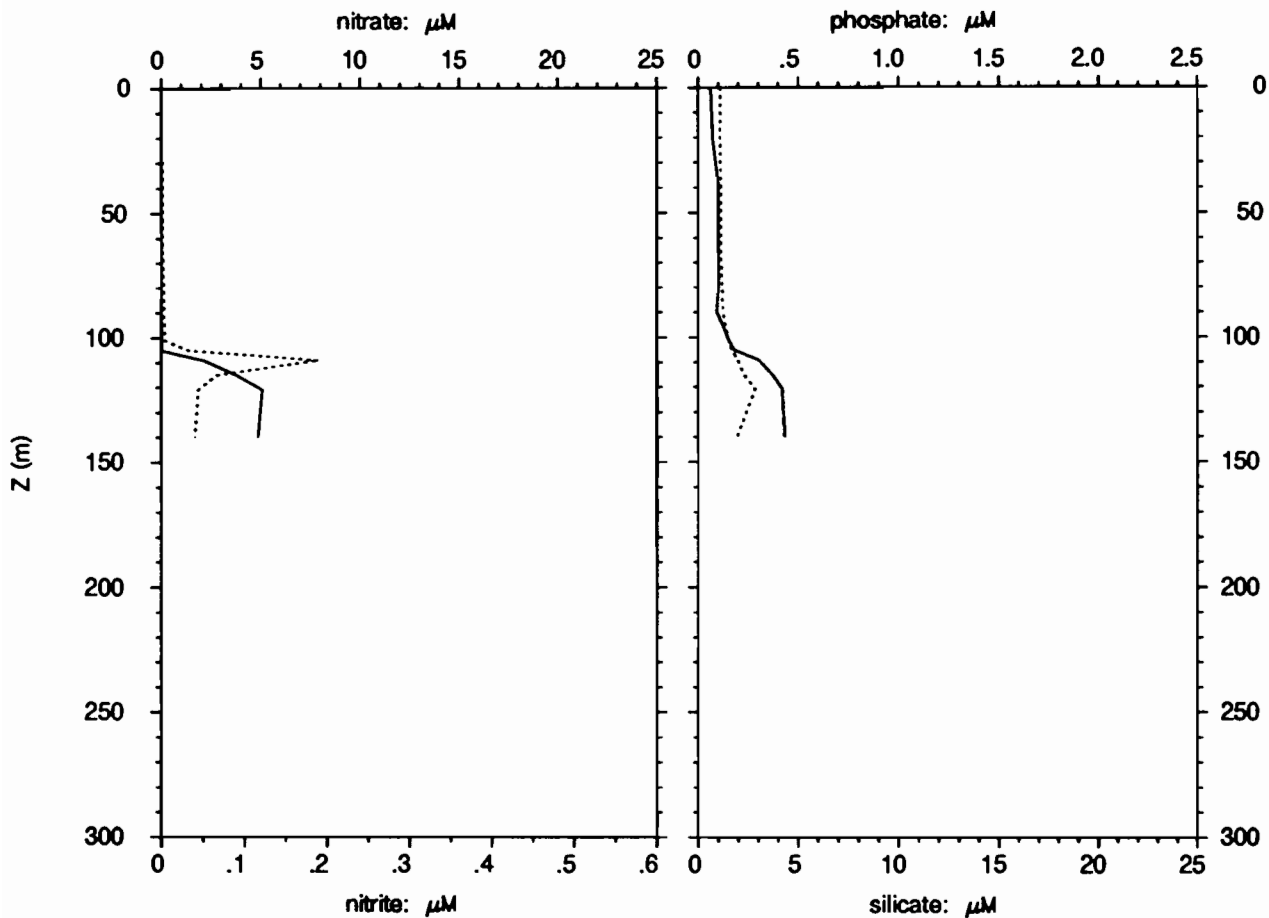
1°45 S 156°10 E

4/12/92, 7h55 TU

4/12/92, 17h55 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.001	0.001	0.06	1.1
20	0.001	0.001	0.07	1.1
39	0.002	0.002	0.10	1.1
61	0.002	0.002	0.10	1.1
79	0.000	0.003	0.10	1.2
90	0.000	0.003	0.09	1.2
95	0.004	0.004	0.12	1.3
101	0.001	0.004	0.15	1.5
105	0.000	0.033	0.18	1.7
109	2.09	0.190	0.30	2.0
115	3.75	0.066	0.37	2.3
121	5.06	0.044	0.42	2.8
140	4.85	0.040	0.43	1.9

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.89	34.20	0.038	0.024	38.66
20	29.43	34.19	0.038	0.024	38.66
39	29.30	34.23	0.043	0.027	38.58
61	29.19	34.19	0.075	0.075	50.08
79	28.69	34.26	0.101	0.096	48.67
90	28.03	34.51	0.124	0.105	45.77
95	27.78	34.58	0.148	0.134	47.53
101	27.19	34.68	0.183	0.207	53.16
105	26.84	34.95	0.382	0.457	54.43
109	25.68	34.97	0.319	0.415	56.55
115	25.18	34.92	0.233	0.373	61.50
121	24.74	34.83	0.365	0.436	54.41
140	23.52	35.49	0.075	0.142	65.28

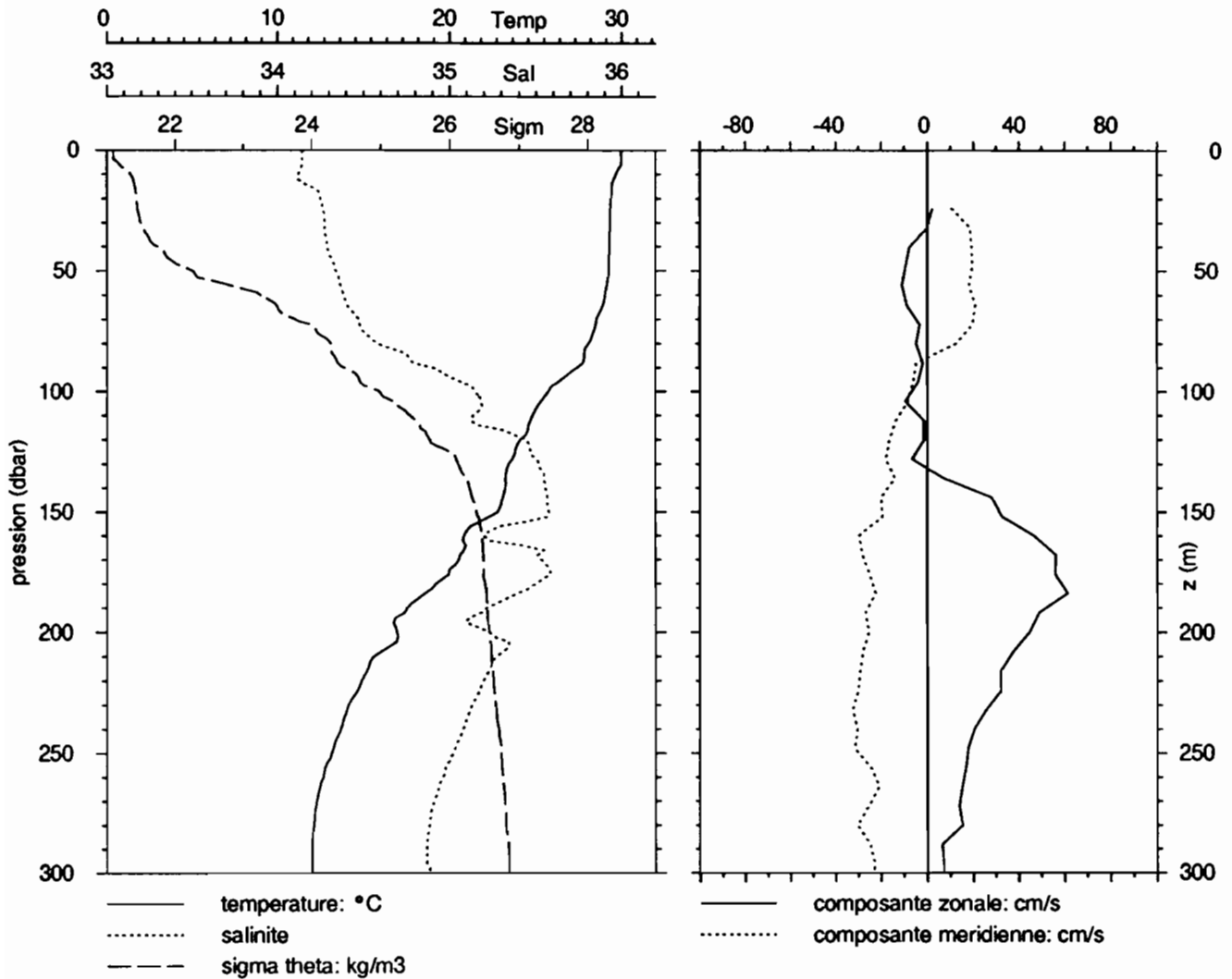


# EQUALIS -station 220

4/12/92, 10h 1 TU

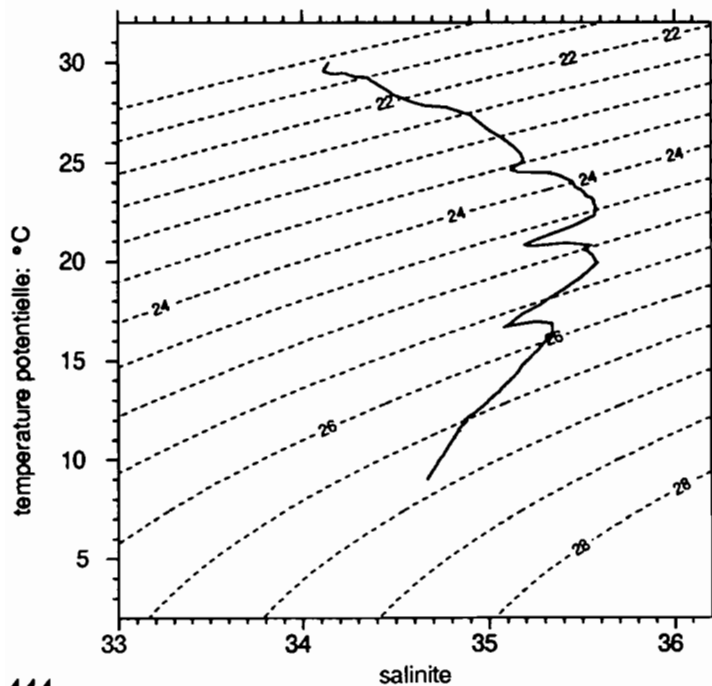
1°45 S 156°10 E

4/12/92, 20h 1 locale



	P	T	S
debut	6.0	29.988	34.144
fin	500.0	9.031	34.668

	Z	U	V
debut	24.0	2.3	10.5
fin	352.0	-10.1	-7.2



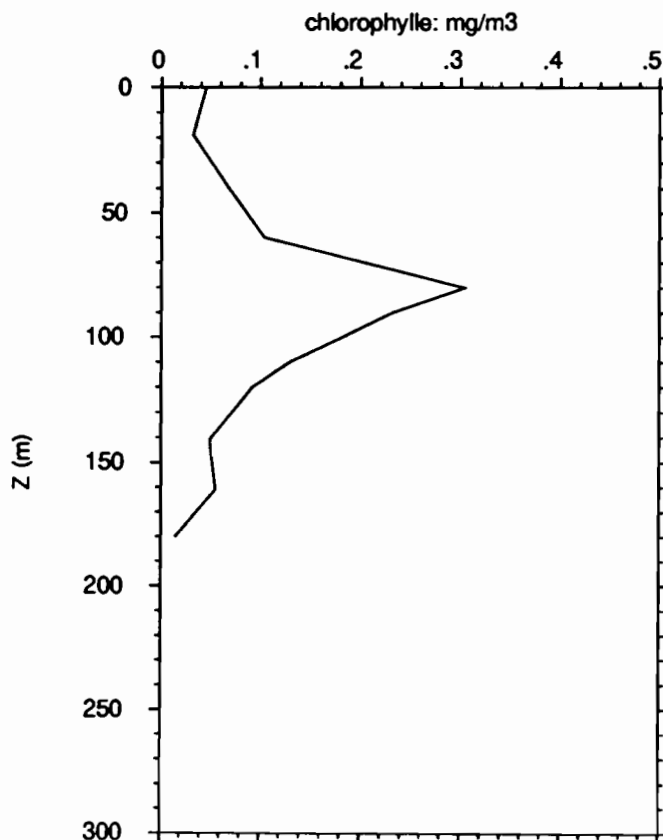
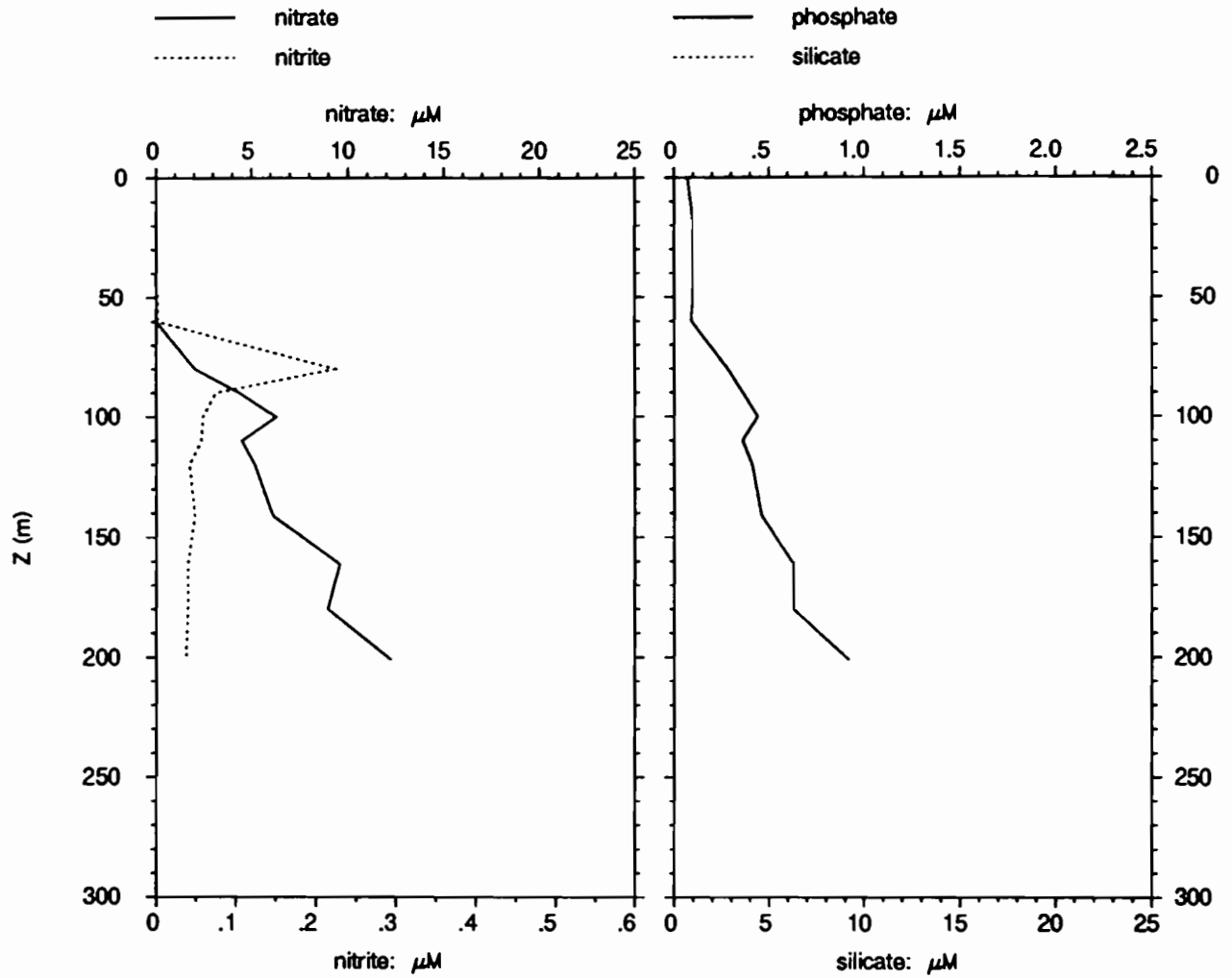
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.662	34.122		
20.0	29.365	34.248		
30.0	29.312	34.275	0.6	16.6
40.0	29.271	34.288	-7.6	19.3
50.0	29.248	34.339	-9.7	19.3
75.0	28.354	34.498	-3.8	17.0
100.0	25.689	35.146	-6.7	-7.2
125.0	23.764	35.465	-4.6	-17.3
150.0	22.758	35.572	31.6	-19.5
200.0	16.940	35.228	44.7	-25.3
250.0	13.138	35.019	17.5	-29.8
300.0	11.969	34.881	7.6	-23.1
400.0	10.397	34.763		
500.0	9.031	34.668		

# EQUALIS - station220

1°45 S 156°10 E

4/12/92, 10h 1 TU

4/12/92, 20h 1 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.004	0.001	0.07	
19	0.002	0.001	0.10	
40	0.002	0.001	0.10	
60	0.001	0.002	0.09	
80	2.03	0.224	0.28	
90	4.35	0.075	0.36	
100	6.29	0.059	0.44	
110	4.50	0.057	0.36	
120	5.18	0.042	0.41	
141	6.12	0.049	0.46	
161	9.56	0.040	0.63	
180	8.96	0.040	0.63	
201	12.24	0.038	0.92	

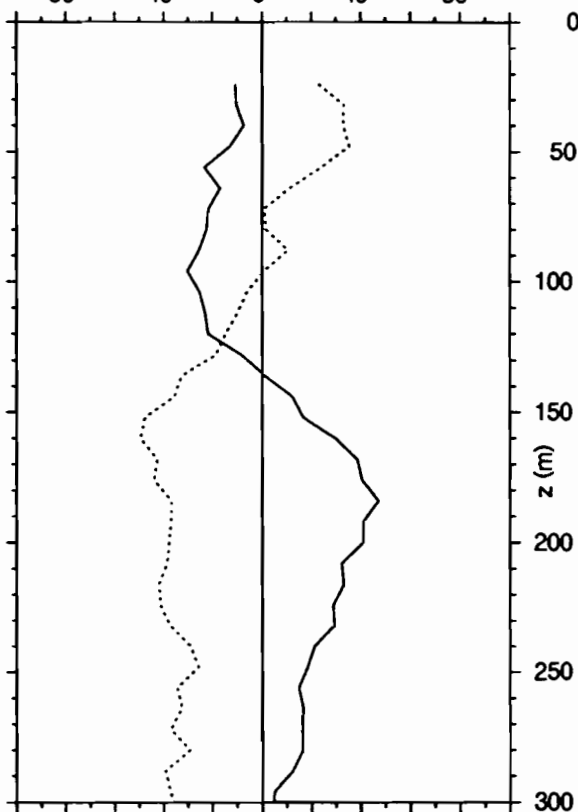
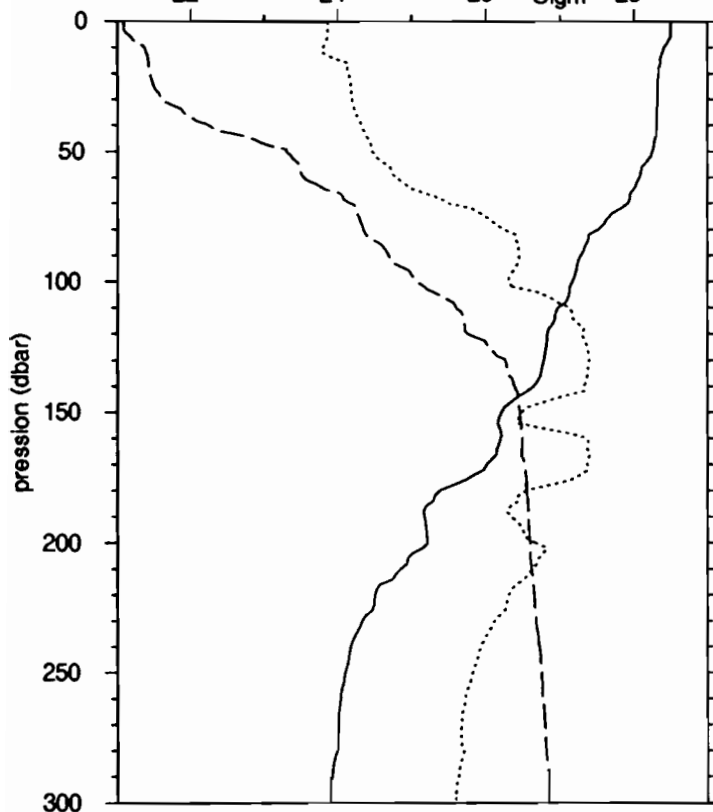
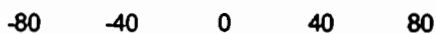
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	30.59	34.19	0.045	0.026	36.57
19	29.34	34.24	0.032	0.024	42.97
40	29.25	34.29	0.068	0.065	48.91
60	28.26	33.90	0.104	0.105	50.39
80	26.13	34.85	0.304	0.365	54.61
90	25.24	34.97	0.232	0.301	56.55
100	24.71	35.04	0.182	0.313	63.24
110	24.39	35.05	0.130	0.210	61.69
120	23.76	35.42	0.092	0.159	63.36
141	23.21	35.53	0.049	0.116	70.03
161	21.17	35.24	0.055	0.114	67.51
180	20.05	35.54	0.015	0.043	74.14
201	17.27	35.13			

# EQUALIS -station 221

1°45 S 156°10 E

4/12/92, 13h 0 TU

4/12/92, 23h 0 locale

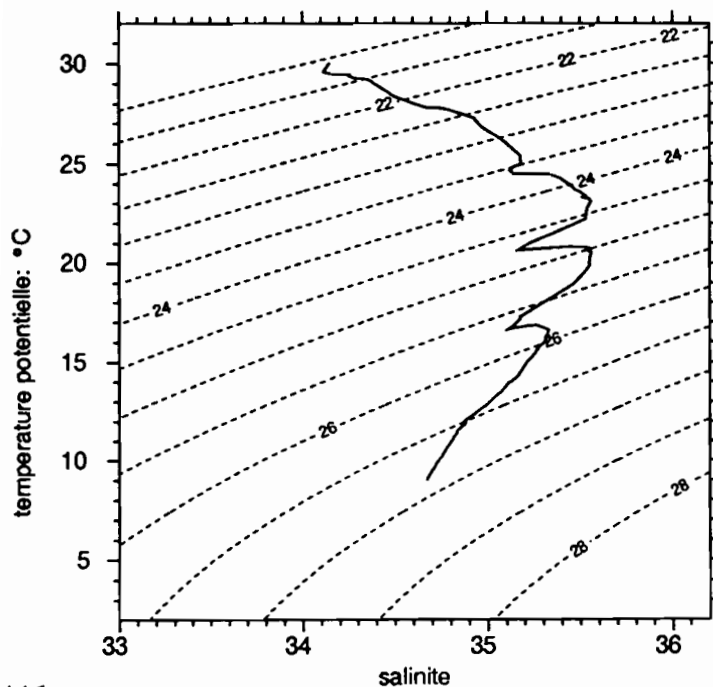


— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3

— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	30.002	34.147
fin	502.0	9.057	34.671

	Z	U	V
debut	24.0	-10.7	23.1
fin	336.0	14.6	-24.6



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.661	34.121		
20.0	29.361	34.259		
30.0	29.285	34.277	-10.4	30.7
40.0	29.255	34.330	-7.4	33.0
50.0	29.015	34.389	-15.4	32.6
75.0	26.683	34.997	-21.8	1.3
100.0	24.687	35.120	-27.7	-2.6
125.0	23.252	35.548	-13.3	-17.1
150.0	20.854	35.193	15.6	-44.6
200.0	16.870	35.264	41.0	-37.7
250.0	12.420	34.931	17.6	-27.8
300.0	11.572	34.839	4.7	-36.0
400.0	10.271	34.755		
500.0	9.075	34.673		

# EQUALIS - station221

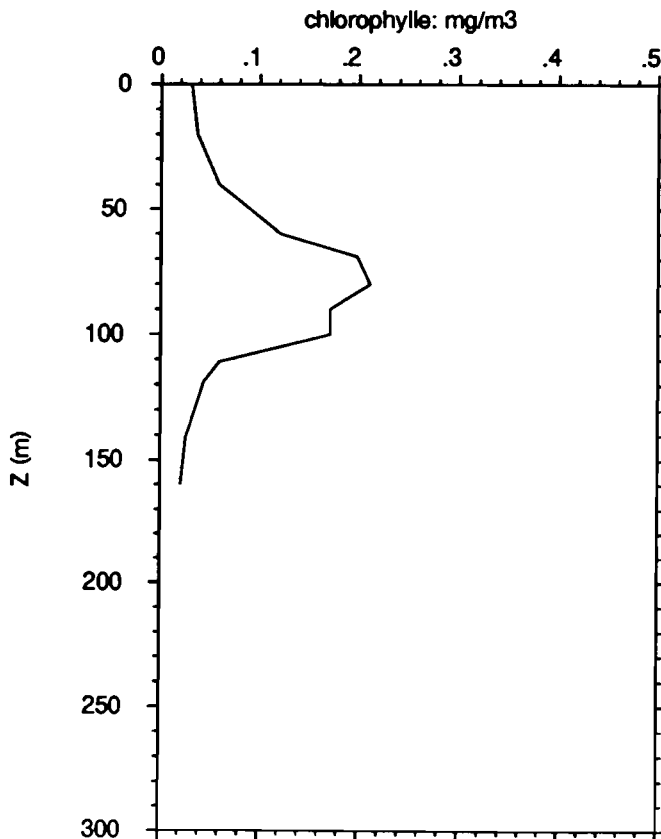
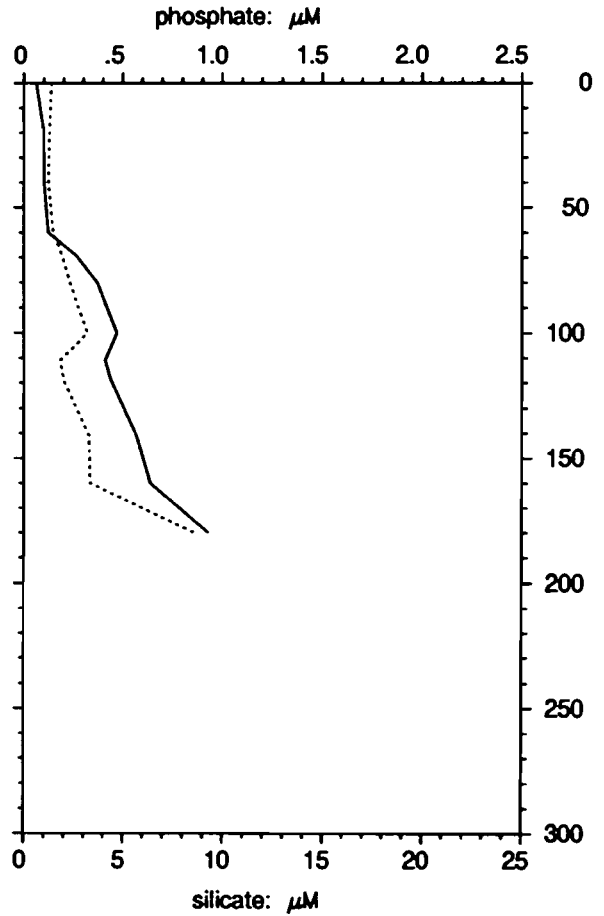
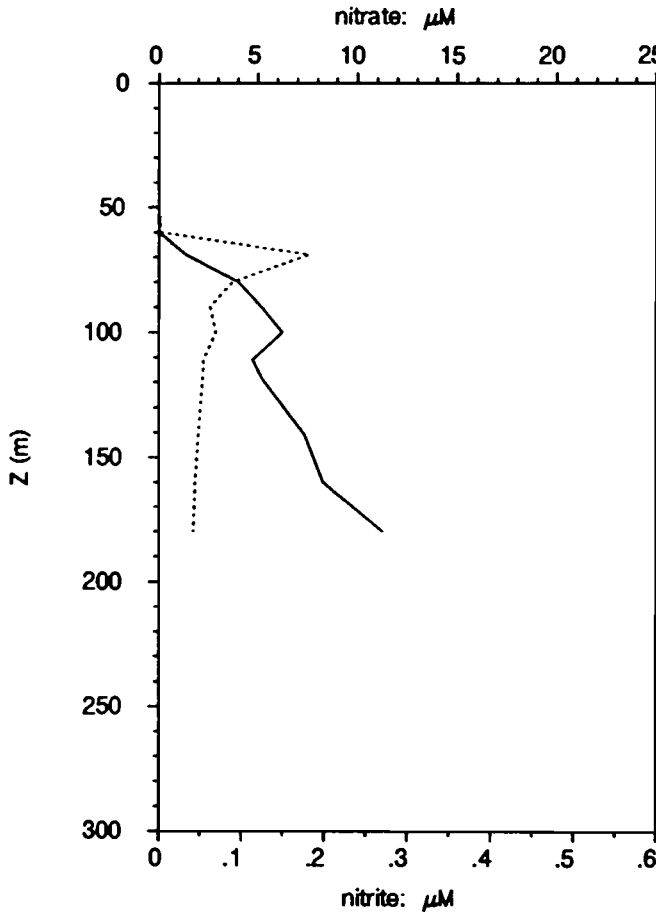
1°45 S 156°10 E

4/12/92, 13h 0 TU

4/12/92, 23h 0 locale

— nitrate  
 - - - nitrite

— phosphate  
 - - - silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.000	0.000	0.06	1.4
20	0.001	0.000	0.10	1.3
40	0.001	0.000	0.10	1.2
60	0.000	0.002	0.12	1.5
69	1.370	0.182	0.26	1.9
80	4.00	0.089	0.37	2.3
90	5.17	0.062	0.42	2.7
100	6.21	0.069	0.47	3.2
111	4.71	0.054	0.41	1.8
119	5.23	0.053	0.44	2.0
141	7.35	0.048	0.57	3.3
160	8.27	0.044	0.64	3.3
180	11.26	0.042	0.93	8.6

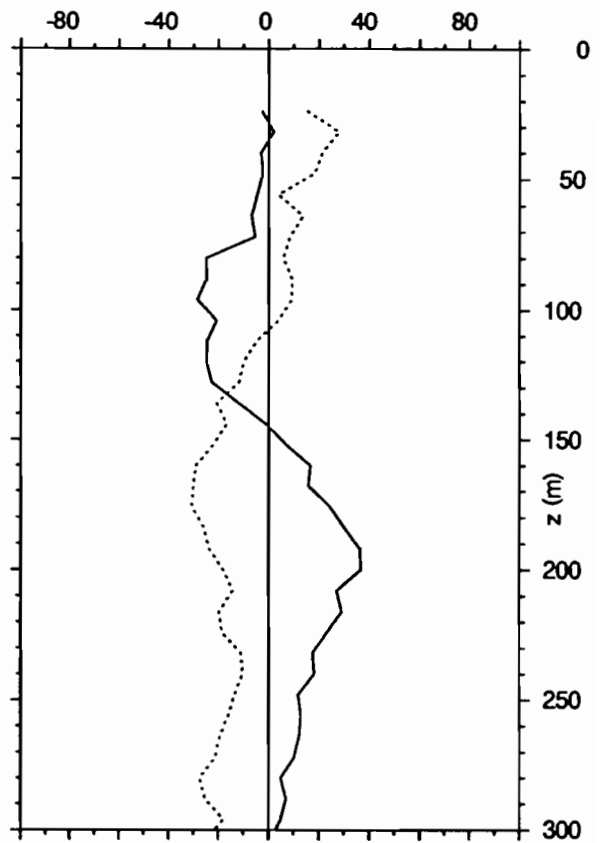
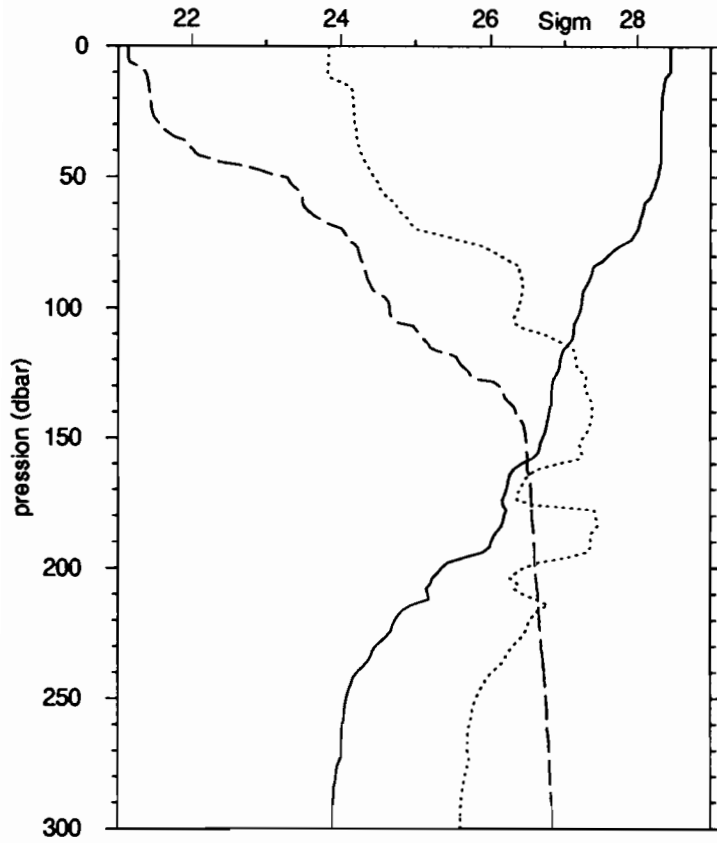
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.20	34.18	0.031	0.032	50.77
20	29.33	34.26	0.037	0.032	46.57
40	29.22	34.25	0.059	0.071	54.83
60	27.77	34.42	0.121	0.131	51.99
69	26.35	34.71	0.198	0.308	60.87
80	25.29	35.08	0.211	0.334	61.20
90	24.91	35.00	0.171	0.301	63.84
100	24.48	35.02	0.171	0.272	61.39
111	23.76	35.23	0.060	0.139	69.94
119	23.30	35.51	0.044	0.114	72.33
141	21.93	35.31	0.026	0.059	69.29
160	20.63	34.64	0.021	0.055	72.76
180	17.42	35.14			

# EQUALIS -station 222

4/12/92, 16h 0 TU

1°45 S 156°10 E

5/12/92, 2h 0 locale

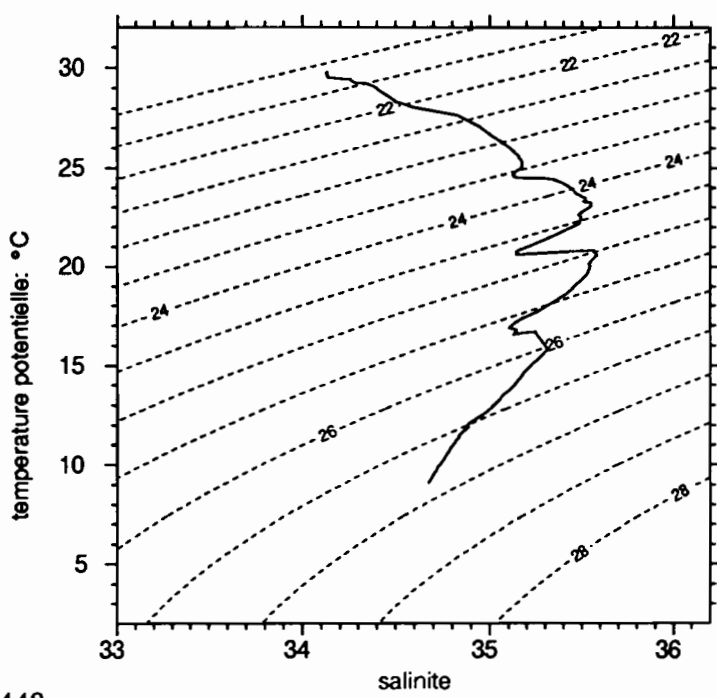


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.819	34.134
fin	500.0	9.159	34.674

	Z	U	V
debut	24.0	-2.7	15.4
fin	344.0	-11.2	-19.7



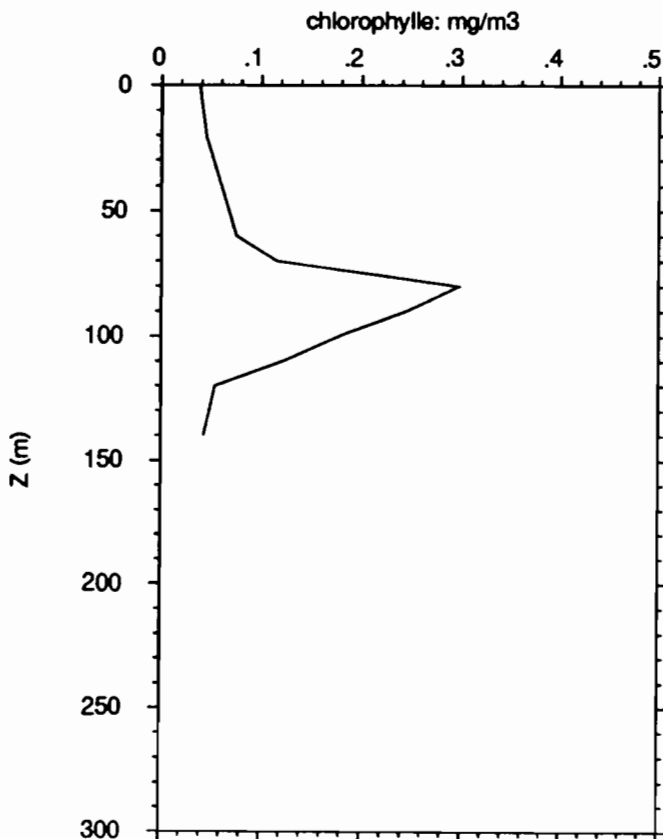
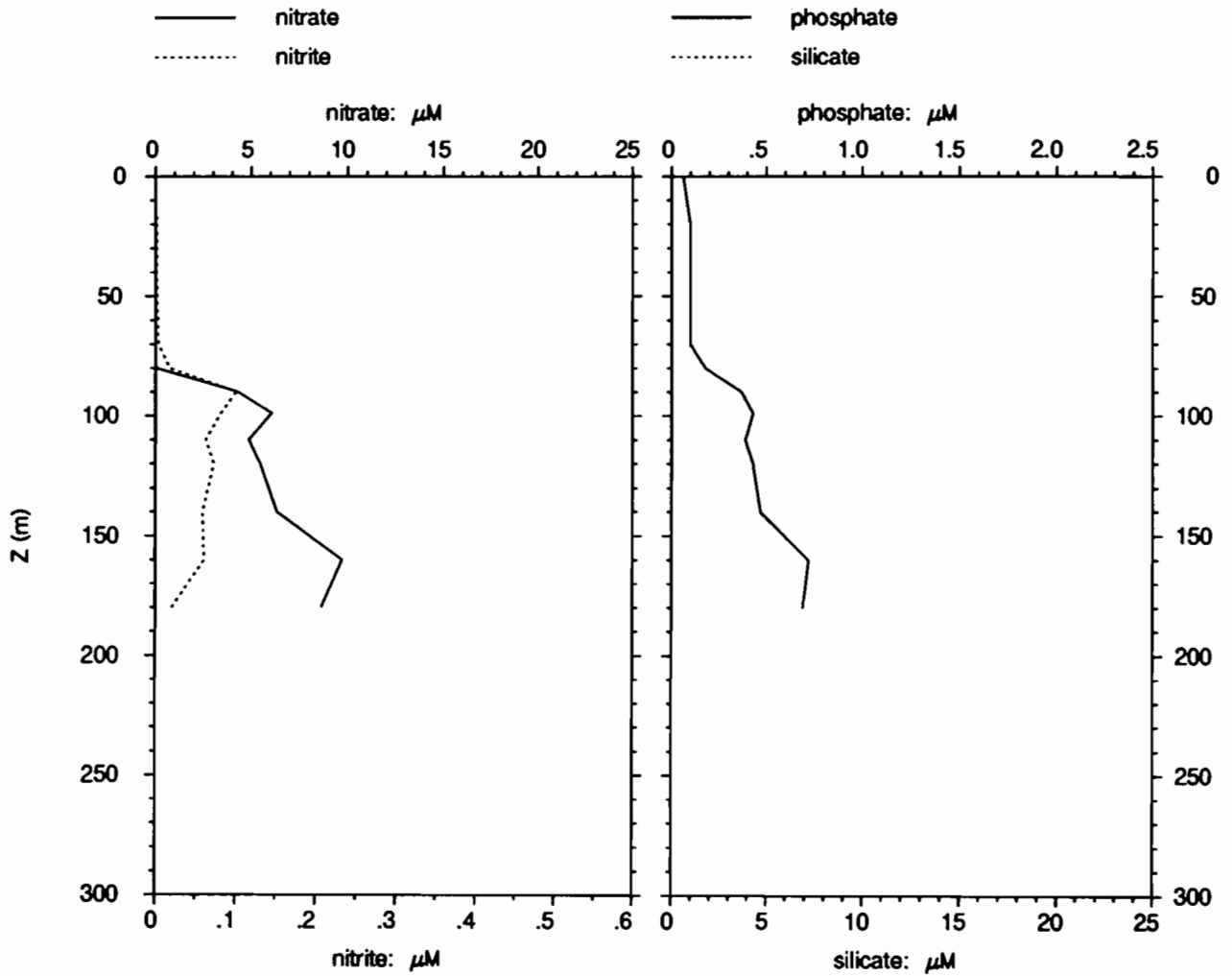
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.770	34.129		
20.0	29.353	34.265		
30.0	29.292	34.272	0.9	24.9
40.0	29.266	34.301	-3.0	21.4
50.0	29.120	34.376	-2.9	14.7
75.0	27.387	34.886	-12.7	7.5
100.0	24.917	35.151	-24.6	6.5
125.0	23.600	35.502	-23.5	-11.1
150.0	22.818	35.502	5.0	-20.6
200.0	17.396	35.177	36.8	-18.0
250.0	12.303	34.923	12.2	-14.0
300.0	11.536	34.839	2.9	-21.4
400.0	10.228	34.750		
500.0	9.159	34.674		

# EQUALIS - station222

1°45 S 156°10 E

4/12/92, 16h 0 TU

5/12/92, 2h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.002	0.000	0.06	
21	0.000	0.002	0.10	
40	0.002	0.002	0.10	
60	0.000	0.003	0.10	
70	0.000	0.004	0.10	
80	0.056	0.018	0.18	
90	4.29	0.101	0.37	
99	6.07	0.082	0.43	
110	4.87	0.063	0.39	
120	5.47	0.073	0.43	
140	6.33	0.059	0.47	
160	9.71	0.061	0.72	
180	8.65	0.021	0.69	

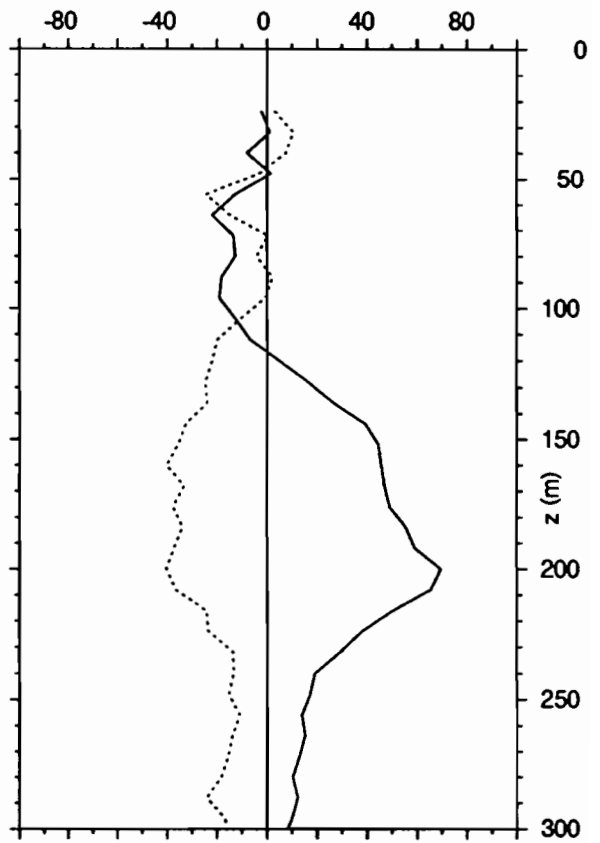
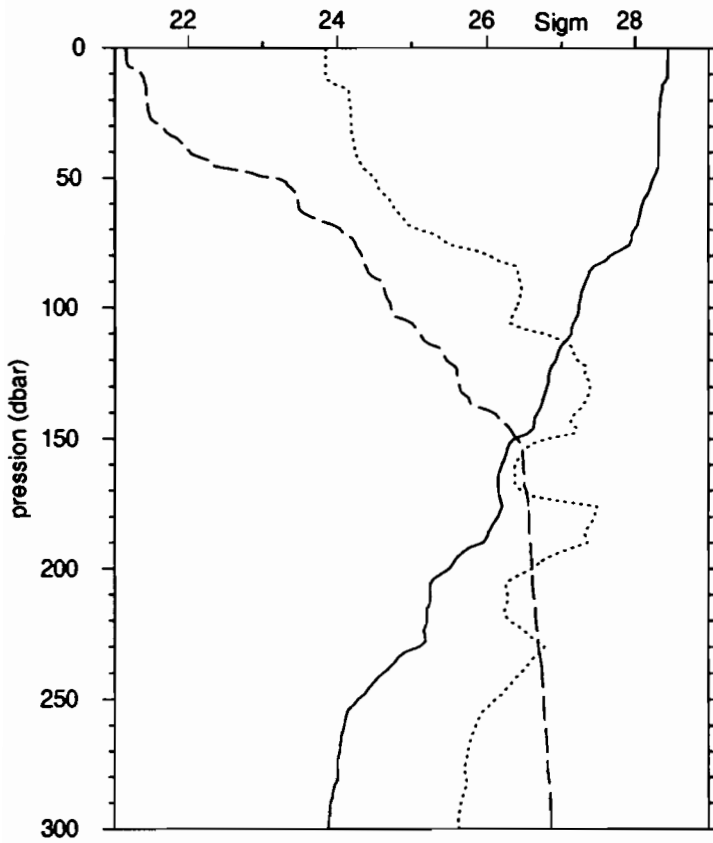
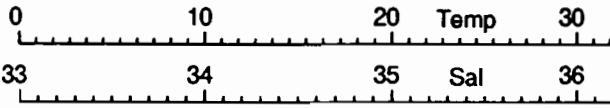
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.93	34.16	0.038	0.029	43.04
21	29.38	34.25	0.045	0.026	36.20
40	29.27	34.26	0.060	0.032	34.93
60	28.82	34.20	0.075	0.069	47.80
70	28.12	34.35	0.116	0.098	45.87
80	26.75	34.96	0.297	0.374	55.75
90	25.23	35.00	0.244	0.360	59.54
99	24.66	34.98	0.183	0.330	64.24
110	24.02	35.16	0.122	0.188	60.63
120	23.53	35.50	0.054	0.144	72.73
140	23.02	35.02	0.043	0.109	71.89
160	21.03	35.13			
180	20.65	35.56			

# EQUALIS -station 223

1°45 S 156°10 E

4/12/92, 19h 4 TU

5/12/92, 5h 4 locale

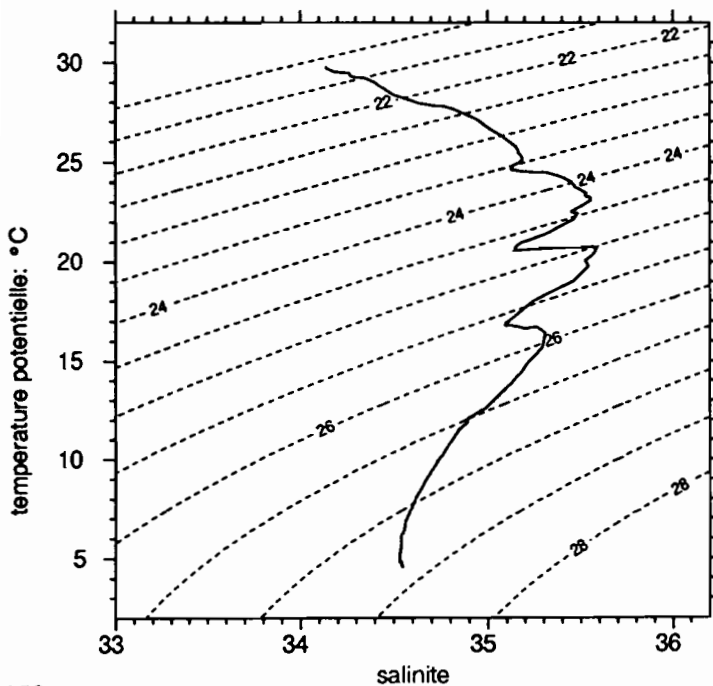


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.779	34.139
fin	998.0	4.626	34.544

	Z	U	V
debut	24.0	-2.2	3.0
fin	384.0	0.4	-11.9



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.769	34.140		
20.0	29.379	34.268		
30.0	29.295	34.277	0.4	8.6
40.0	29.275	34.299	-8.0	7.6
50.0	28.992	34.404	-2.0	-8.4
75.0	27.743	34.788	-13.1	-1.4
100.0	24.951	35.156	-15.8	-5.6
125.0	23.339	35.528	12.1	-23.6
150.0	21.455	35.317	43.2	-34.8
200.0	18.037	35.244	69.6	-40.2
250.0	13.141	35.044	16.5	-14.0
300.0	11.557	34.851	8.3	-16.2
400.0	10.165	34.751		
500.0	9.021	34.671		
600.0	6.633	34.558		
700.0	6.029	34.539		
800.0	5.474	34.535		
900.0	4.898	34.539		

# EQUALIS - station223

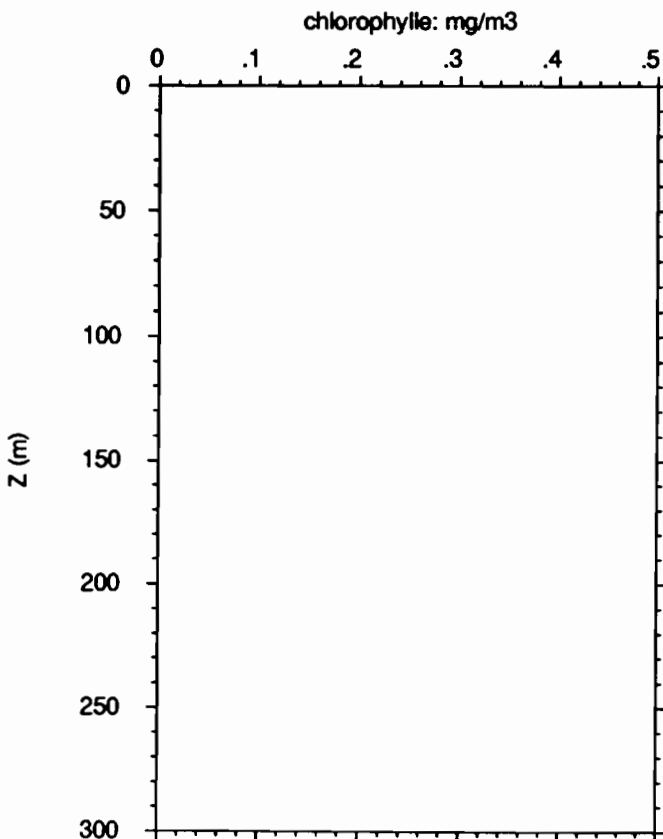
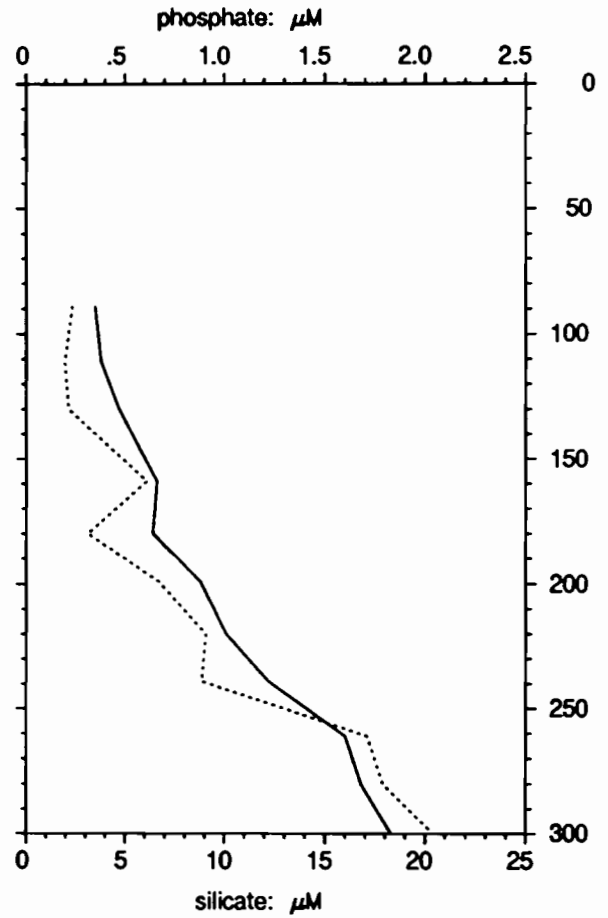
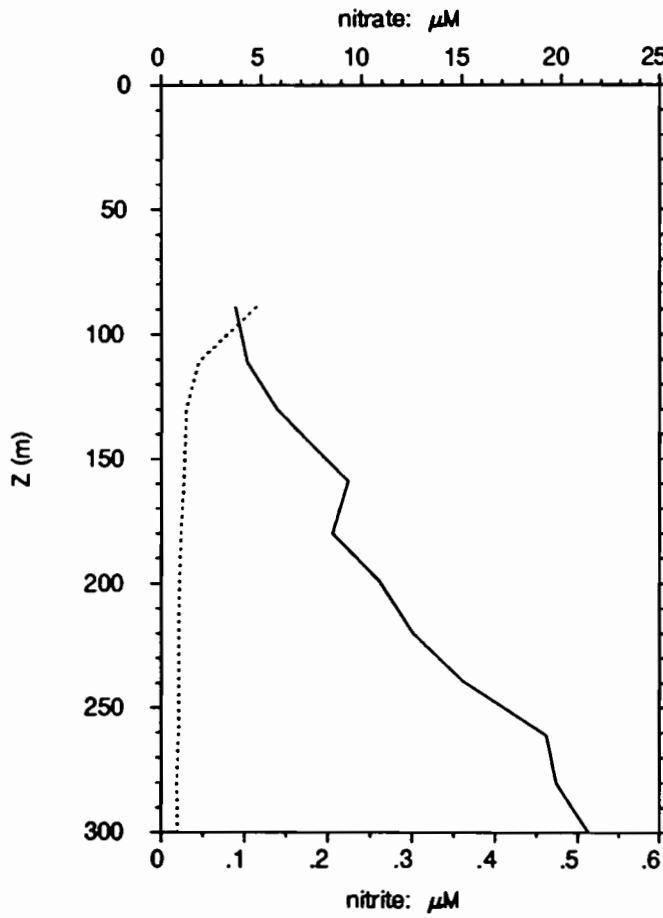
1°45 S 156°10 E

4/12/92, 19h 4 TU

5/12/92, 5h 4 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
89	3.70	0.114	0.35	2.3
111	4.30	0.045	0.38	2.0
130	5.79	0.030	0.47	2.1
159	9.33	0.027	0.66	6.1
180	8.57	0.024	0.64	3.1
199	10.87	0.022	0.88	6.7
220	12.55	0.021	1.01	9.1
239	15.02	0.021	1.22	8.9
261	19.23	0.021	1.60	17.1
280	19.74	0.019	1.68	17.9
300	21.36	0.020	1.83	20.4
1001	29.88	0.015	2.88	63.4

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
89	25.32	34.87			
111	24.33	35.03			
130	23.15	34.70			
159	20.70	34.95			
180	20.55	34.51			
199	18.02	34.28			
220	16.72	34.19			
239	13.92	34.01			
261	12.21	34.59			
280	11.86	34.72			
300	11.56	34.84			
1001	4.63	34.54			

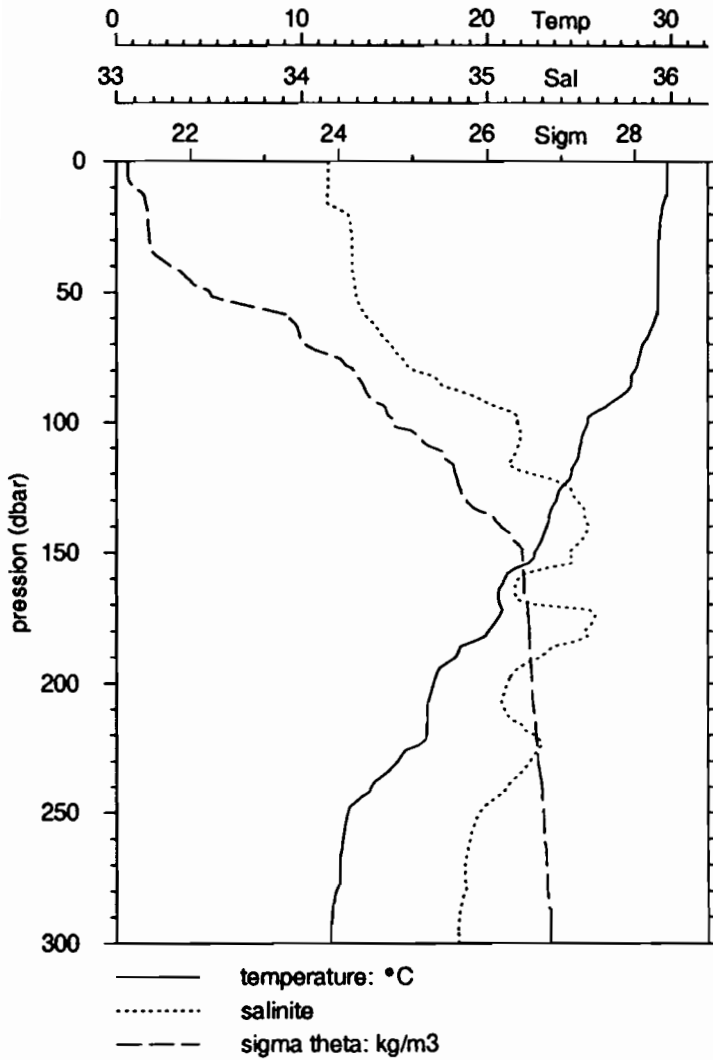


# EQUALIS -station 224

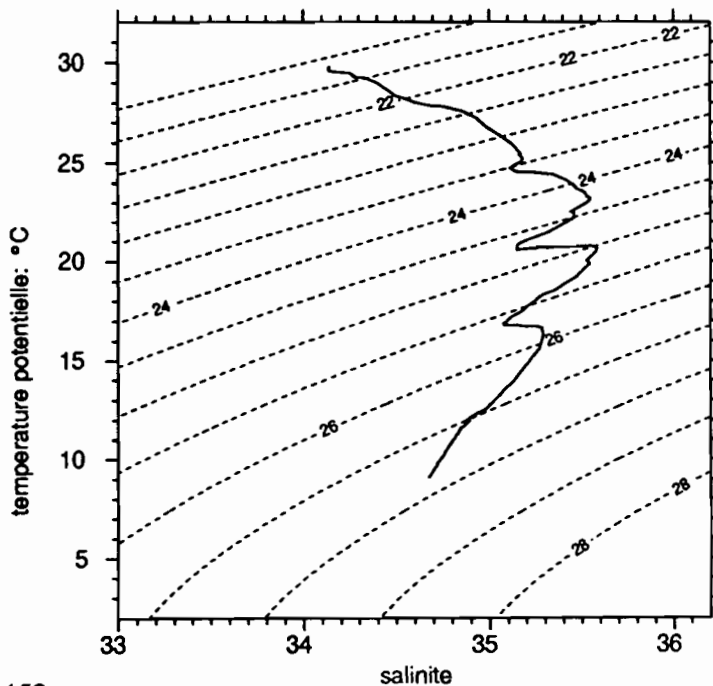
1°45 S 156°10 E

4/12/92, 19h57 TU

5/12/92, 5h57 locale



	P	T	S
debut	4.0	29.785	34.143
fin	500.0	9.119	34.674



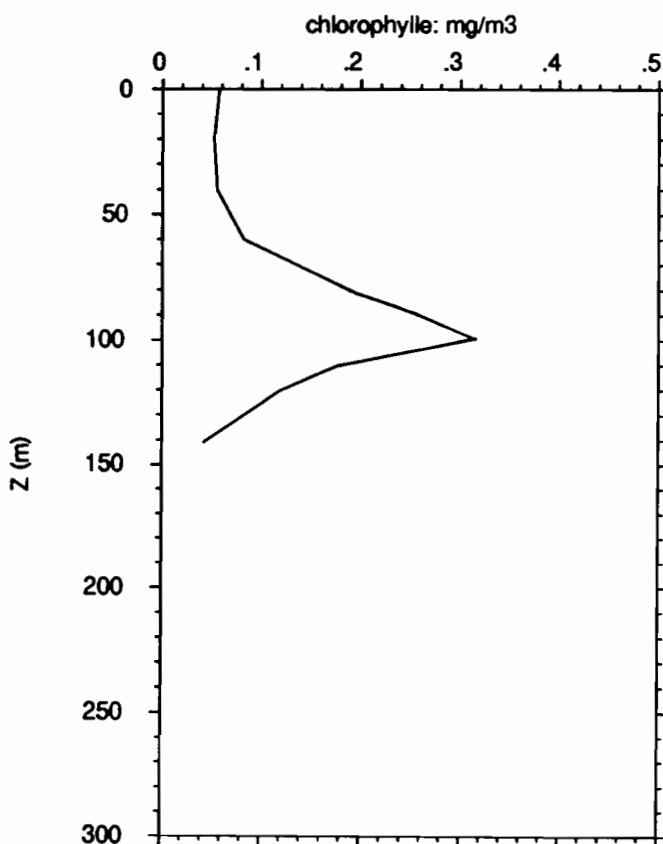
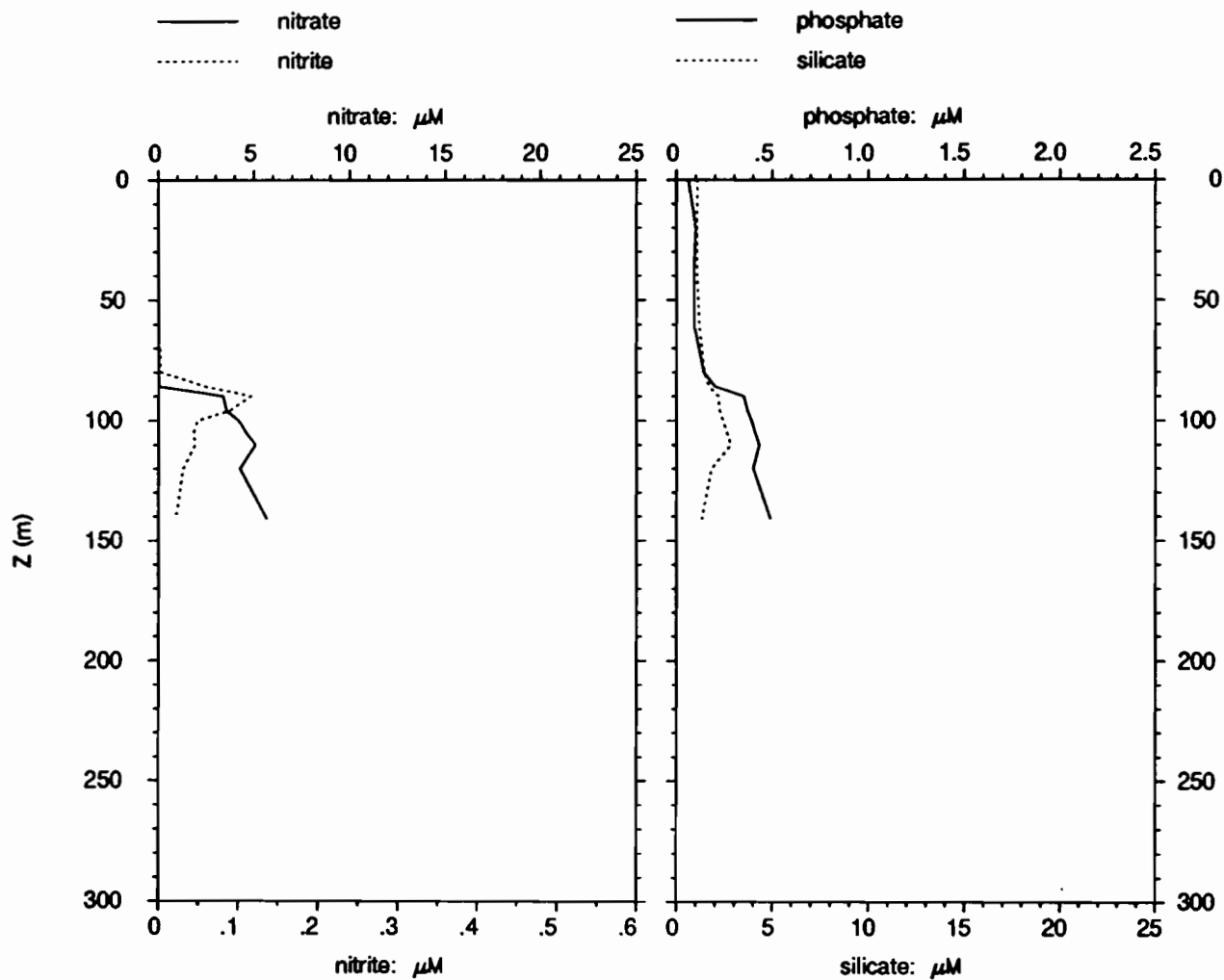
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.786	34.143		
20.0	29.487	34.248		
30.0	29.319	34.270		
40.0	29.289	34.272		
50.0	29.278	34.291		
75.0	28.256	34.535		
100.0	25.448	35.160		
125.0	24.048	35.435		
150.0	22.552	35.442		
200.0	17.131	35.107		
250.0	12.485	34.960		
300.0	11.517	34.843		
400.0	10.175	34.749		
500.0	9.119	34.674		

# EQUALIS - station224

1°45 S 156°10 E

4/12/92, 19h57 TU

5/12/92, 5h57 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.001	0.000	0.06	1.1
20	0.000	0.001	0.10	1.1
40	0.001	0.000	0.09	1.1
60	0.001	0.001	0.09	1.2
80	0.002	0.003	0.14	1.4
86	0.045	0.059	0.20	1.7
90	3.38	0.116	0.35	2.2
96	3.56	0.089	0.37	2.2
100	4.20	0.049	0.39	2.4
105	4.61	0.044	0.41	2.6
110	5.08	0.046	0.43	2.8
120	4.26	0.031	0.40	1.8
141	5.67	0.022	0.49	1.3

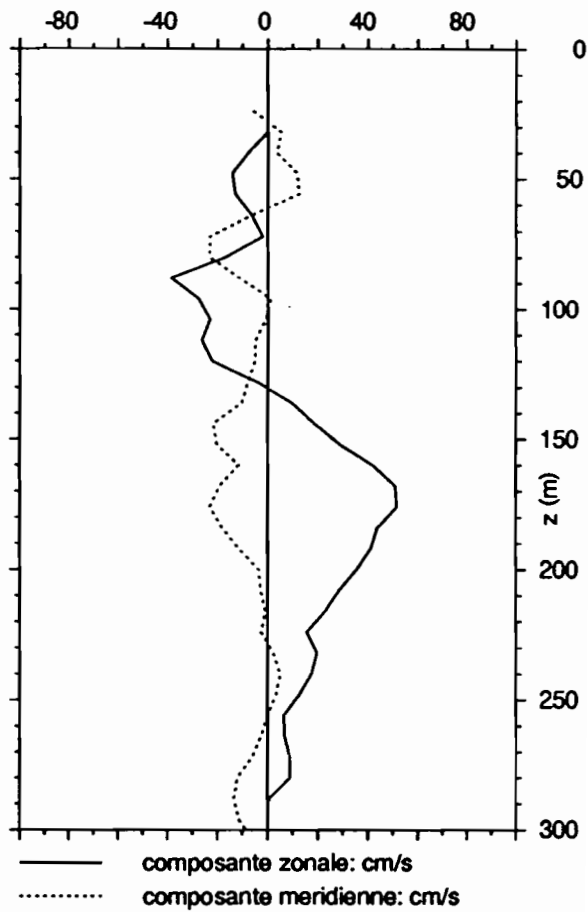
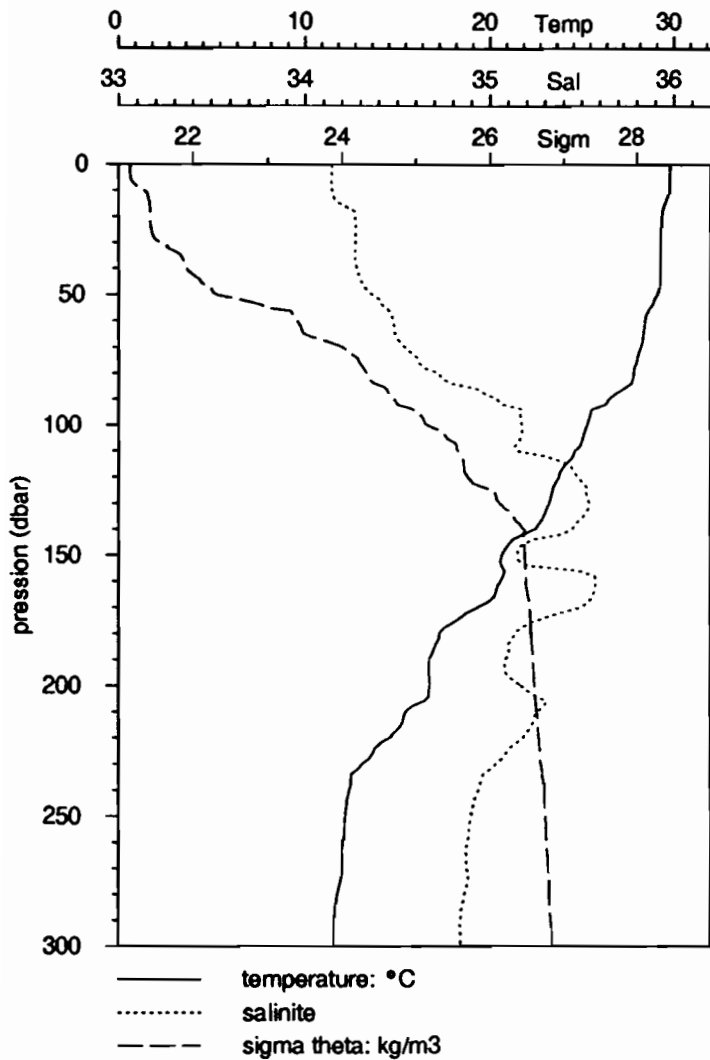
Z m	T °C	S	Chl $\text{mg}/\text{m}^3$	Pheo $\text{mg}/\text{m}^3$	%Pheo %
0	29.90	34.17	0.057	0.039	40.41
20	29.39	34.21	0.052	0.046	47.08
40	29.28	34.20	0.055	0.044	44.62
60	28.46	34.35	0.082	0.076	48.05
80	27.62	34.47	0.189	0.184	49.38
86	26.47	34.79			
90	25.52	35.07	0.258	0.340	56.88
96	25.33	35.05			
100	25.13	35.06	0.309	0.389	55.75
105	24.98	34.97			
110	24.71	34.84	0.178	0.318	64.18
120	23.96	35.03	0.120	0.190	61.33
141	23.03	35.50	0.042	0.088	67.70

# EQUALIS -station 225

4/12/92, 22h 1 TU

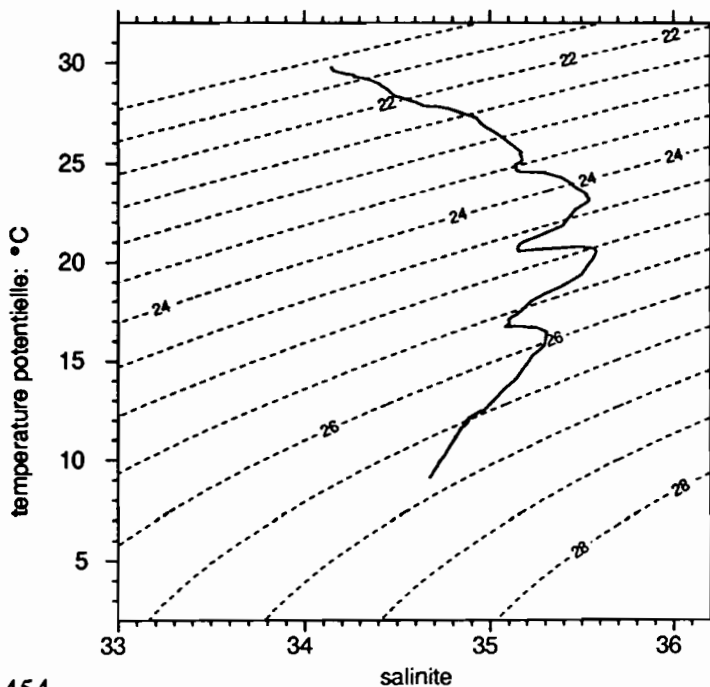
1°45 S 156°10 E

5/12/92, 8h 1 locale



	P	T	S
debut	6.0	29.794	34.145
fin	504.0	9.159	34.674

	Z	U	V
debut	24.0	-0.2	-5.6
fin	416.0	6.7	10.2



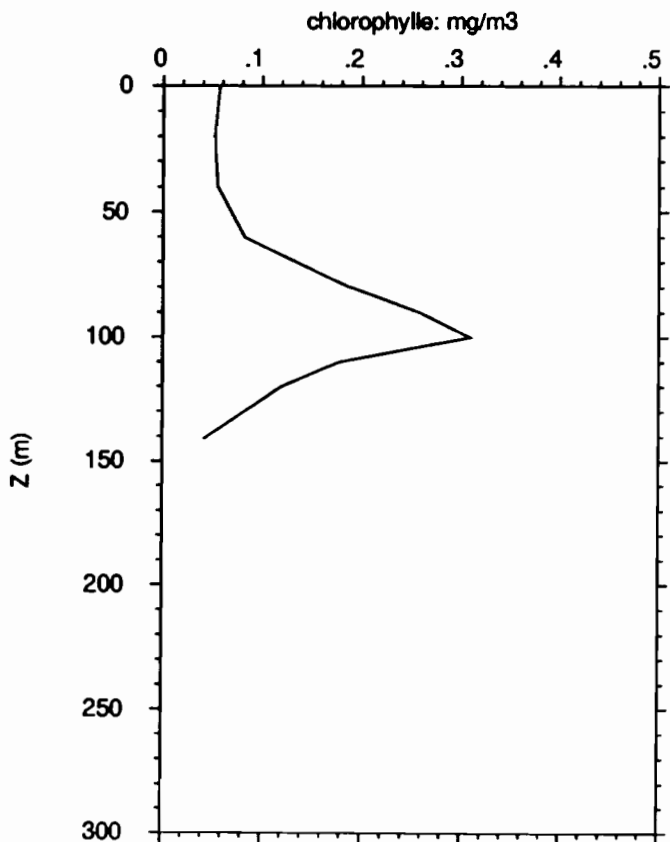
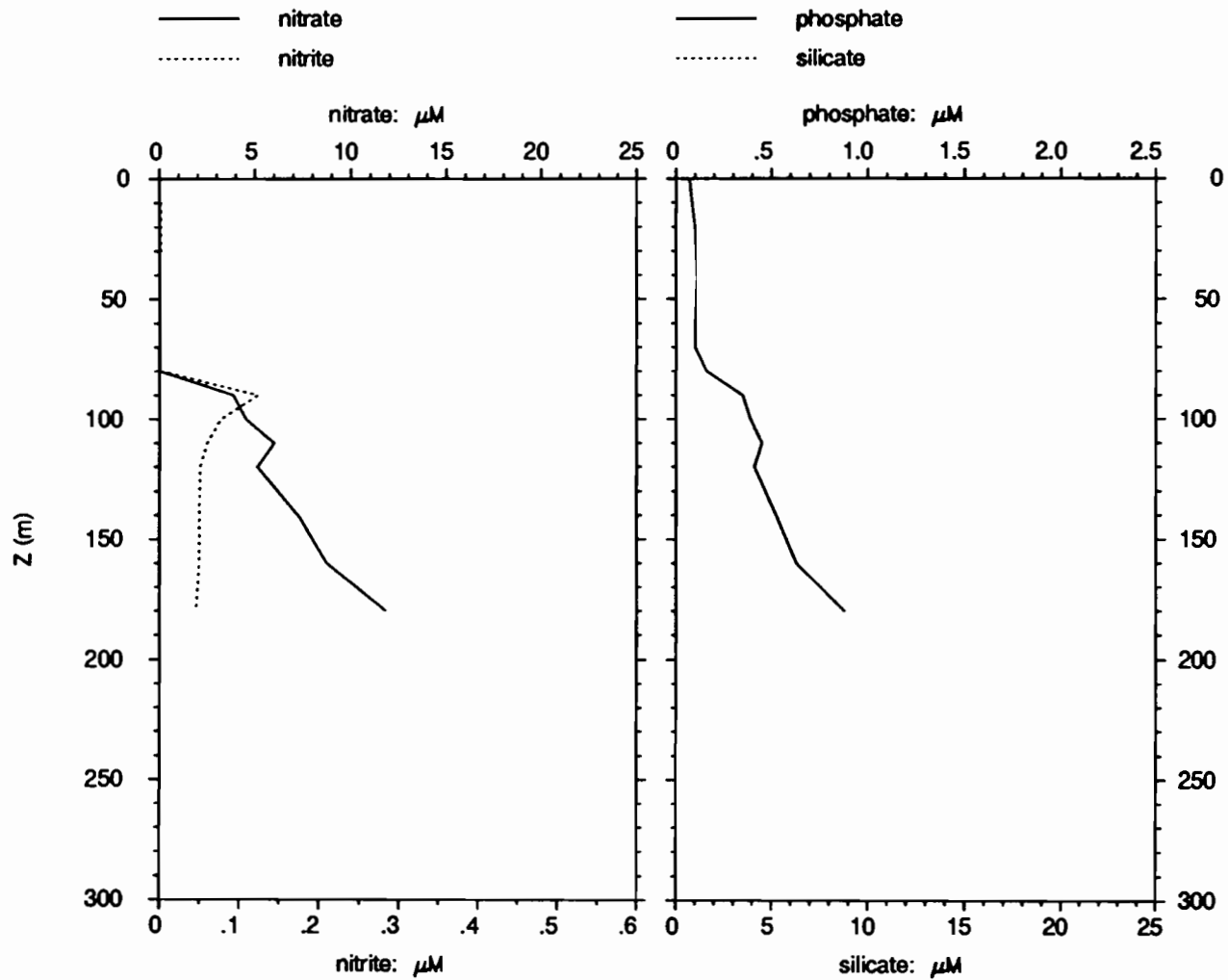
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.764	34.147		
20.0	29.370	34.268		
30.0	29.295	34.274	8.3	2.7
40.0	29.287	34.282	-7.7	3.7
50.0	29.115	34.364	-13.8	12.0
75.0	28.015	34.612	-7.5	-23.0
100.0	25.292	35.172	-25.2	0.2
125.0	23.406	35.527	-10.9	-6.8
150.0	20.657	35.151	26.3	-20.6
200.0	16.776	35.167	35.6	-3.5
250.0	12.210	34.898	11.1	2.6
300.0	11.556	34.842	11.1	-8.6
400.0	10.155	34.745	7.5	15.9
500.0	9.172	34.675		

# EQUALIS - station225

1°45 S 156°10 E

4/12/92, 22h 1 TU

5/12/92, 8h 1 locale



Z m	NO3 μM	NO2 μM	PO4 μM	SiO2 μM
0	0.001	0.001	0.07	
20	0.000	0.002	0.10	
40	0.001	0.001	0.11	
60	0.002	0.000	0.10	
70	0.003	0.000	0.10	
80	0.002	0.002	0.16	
90	3.87	0.124	0.35	
100	4.54	0.077	0.39	
110	6.01	0.060	0.45	
120	5.13	0.051	0.41	
141	7.35	0.050	0.53	
160	8.74	0.050	0.63	
180	11.80	0.046	0.88	

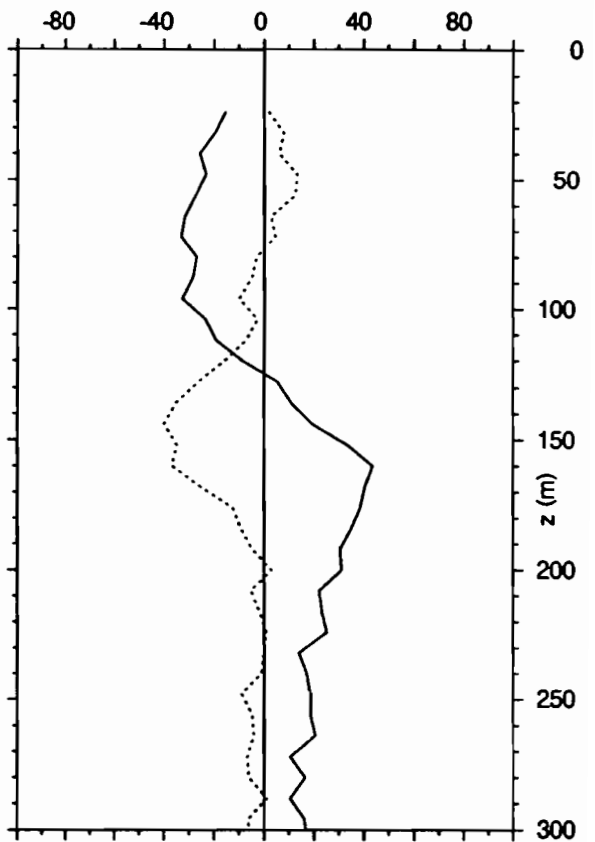
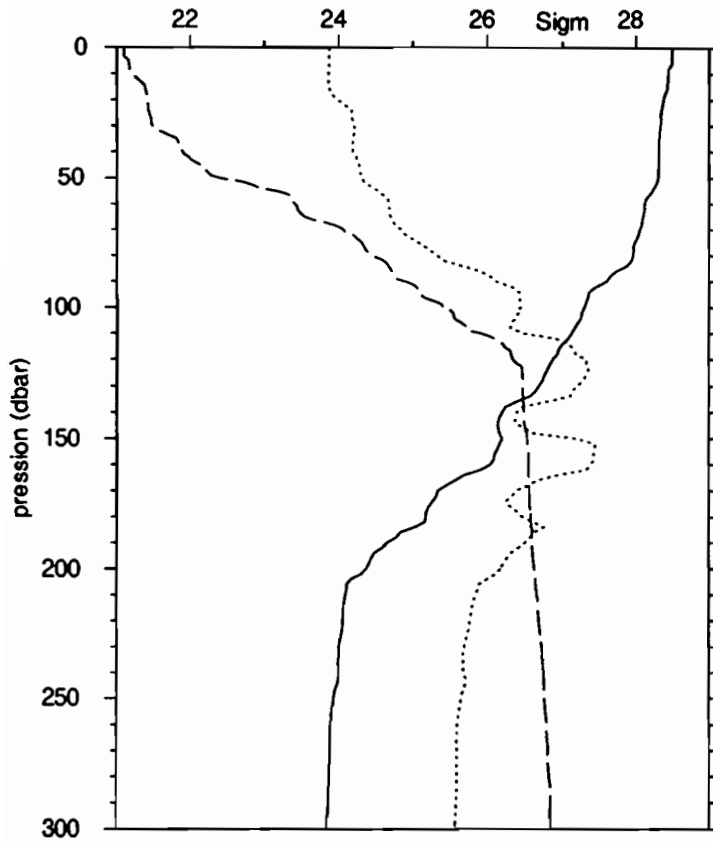
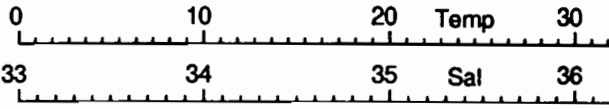
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	29.99	34.17	0.057	0.039	40.41
20	29.36	34.19	0.052	0.046	47.08
40	29.29	34.24	0.055	0.044	44.62
60	28.51	34.39	0.082	0.076	48.05
70	28.15	34.48			
80	27.66	34.62	0.189	0.184	49.38
90	25.51	35.11	0.258	0.340	56.88
100	25.15	34.99	0.309	0.389	55.75
110	24.53	35.29	0.178	0.318	64.18
120	23.75	35.45	0.120	0.190	61.33
141	22.48	35.40	0.042	0.088	67.70
160	20.73	35.19			
180	17.49	35.12			

# EQUALIS -station 227

5/12/92, 1h 0 TU

1°45 S 156°10 E

5/12/92, 11h 0 locale

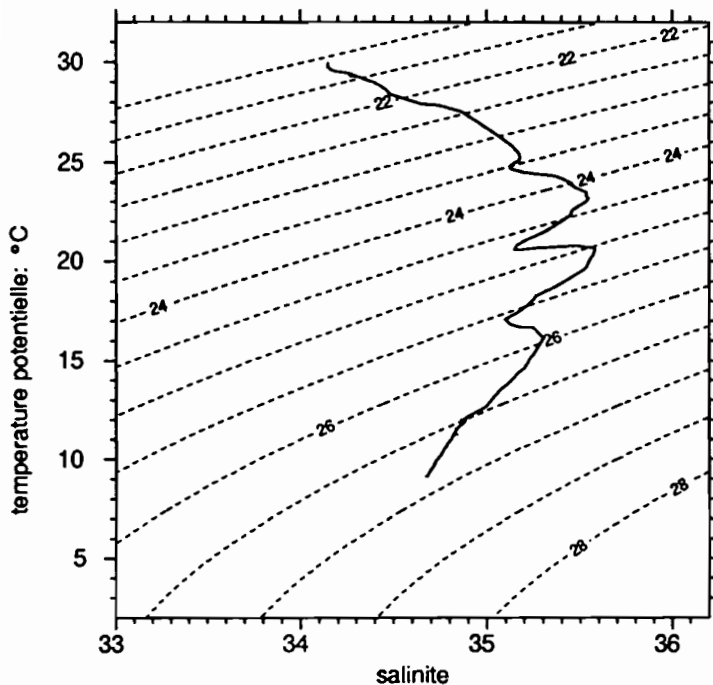


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.983	34.150
fin	500.0	9.166	34.675

	Z	U	V
debut	24.0	-15.3	2.0
fin	408.0	23.6	0.5



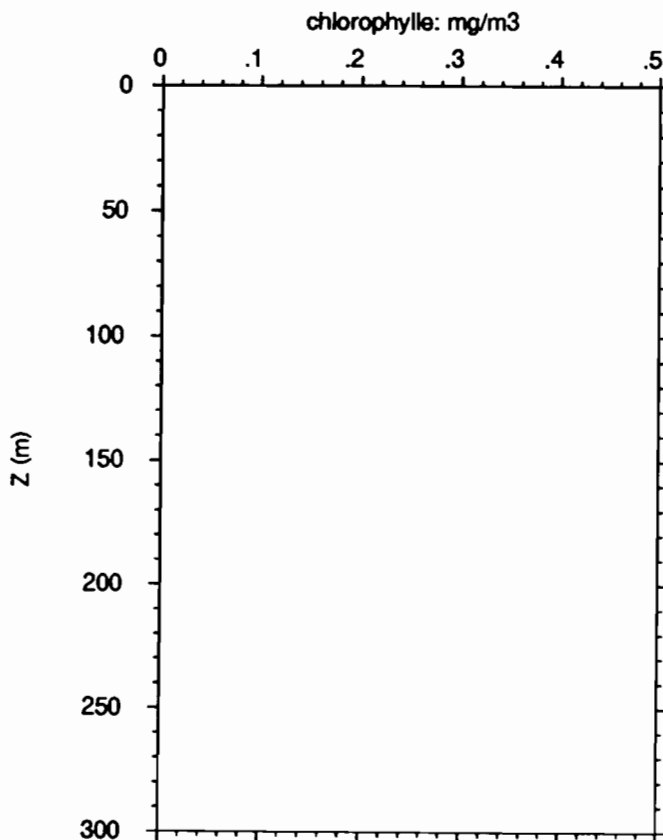
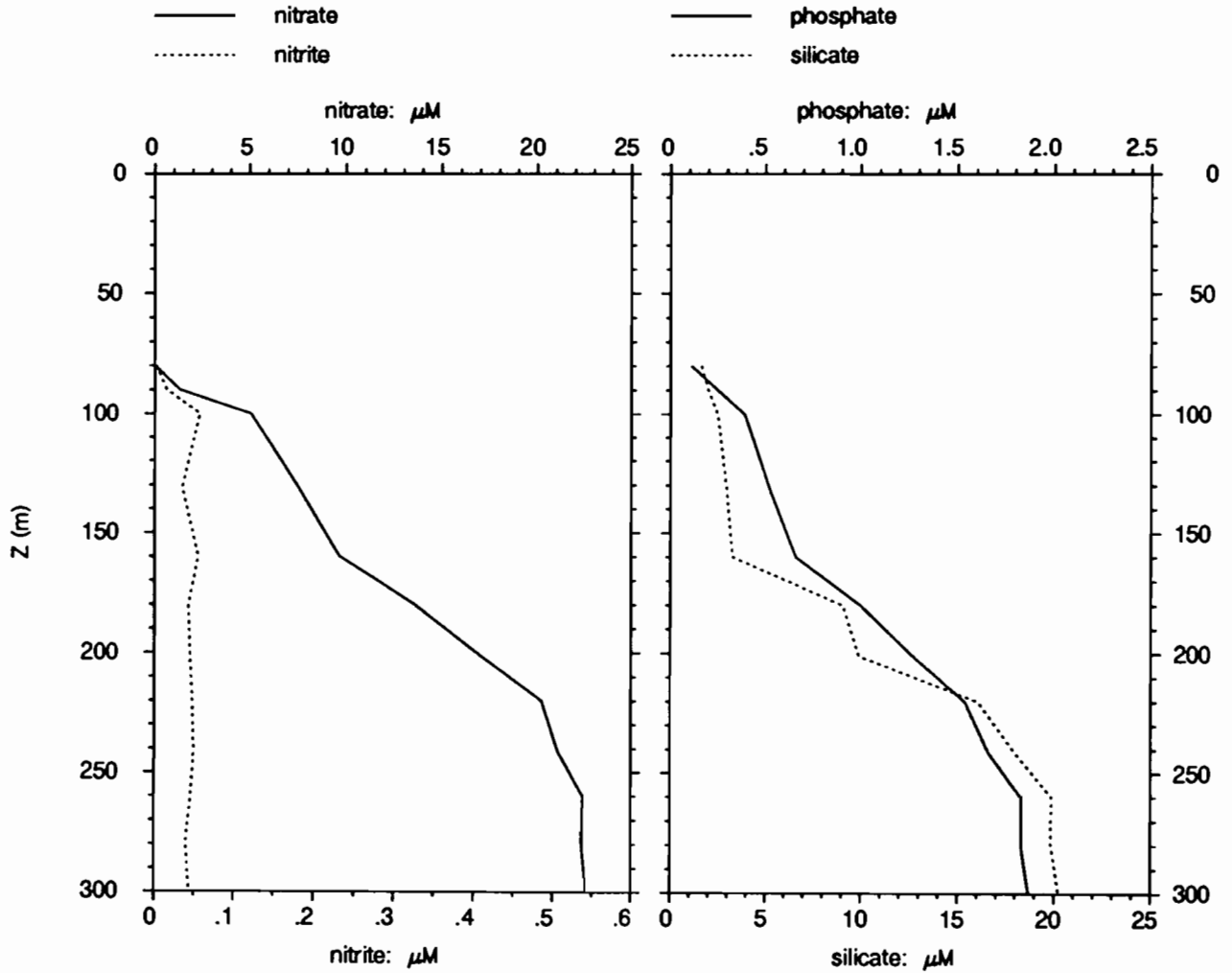
P dbar	T °C	S	U cm/s	V cm/s
10.0	29.779	34.146		
20.0	29.525	34.194		
30.0	29.366	34.284	-18.5	6.4
40.0	29.287	34.278	-25.6	6.2
50.0	29.234	34.325	-24.1	13.1
75.0	27.972	34.633	-30.8	1.7
100.0	25.219	35.177	-28.0	-6.2
125.0	23.132	35.538	0.2	-22.4
150.0	20.810	35.480	30.0	-36.1
200.0	13.528	35.072	31.2	3.0
250.0	11.760	34.863	18.6	-7.8
300.0	11.355	34.828	16.7	-6.1
400.0	9.991	34.732	18.9	2.1
500.0	9.166	34.675		

# EQUALIS - station227

1°45 S 156°10 E

5/12/92, 1h 0 TU

5/12/92, 11h 0 locale



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
80	0.008	0.002	0.11	1.6
90	1.300	0.015	0.25	2.0
100	5.07	0.057	0.39	2.5
131	7.54	0.035	0.52	3.0
160	9.66	0.055	0.66	3.3
180	13.60	0.043	1.00	9.1
201	16.99	0.045	1.27	9.9
220	20.25	0.048	1.54	16.1
241	21.10	0.050	1.66	18.0
260	22.42	0.046	1.83	19.9
279	22.36	0.040	1.83	19.8
300	22.61	0.044	1.87	20.2

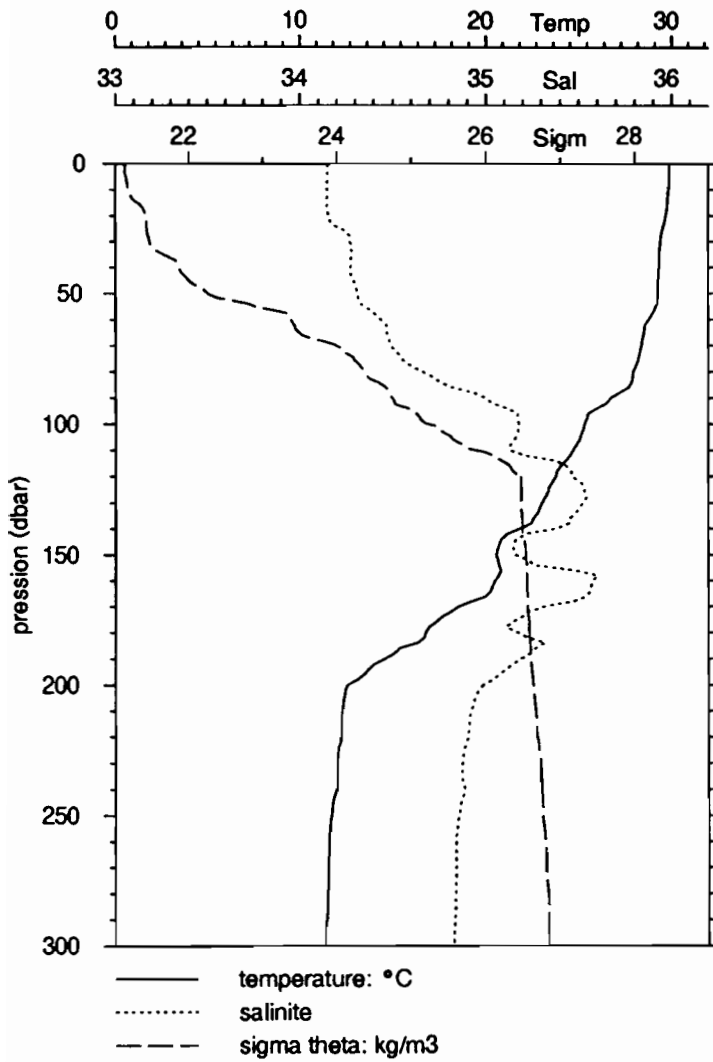
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
80	27.90	34.44			
90	26.41	34.61			
100	25.11	35.14			
131	22.64	35.43			
160	20.27	34.86			
180	16.69	34.88			
201	13.45	35.02			
220	12.27	34.75			
241	12.02	34.79			
260	11.62	34.80			
279	11.52	34.78			
300	11.36	34.82			

# EQUALIS -station 228

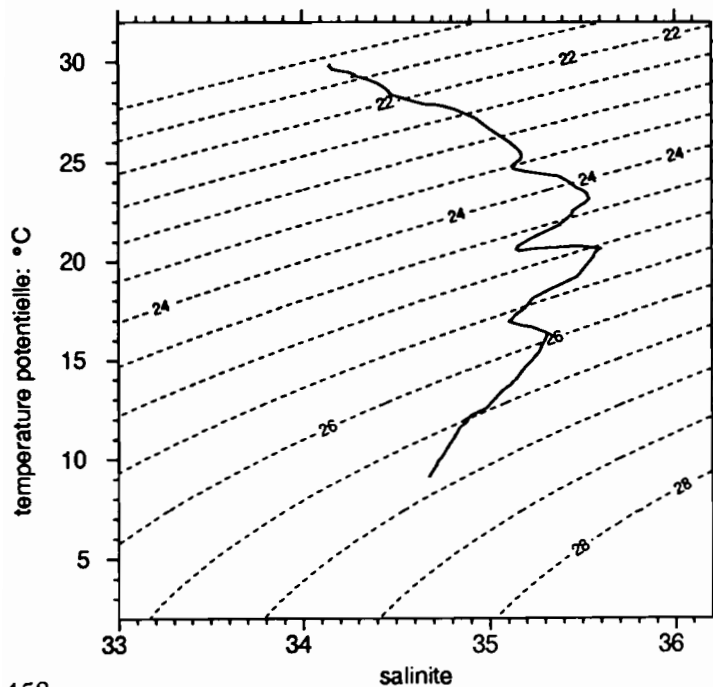
5/12/92, 1h48 TU

1°45 S 156°10 E

5/12/92, 11h48 locale



	P	T	S
debut	6.0	29.886	34.151
fin	502.0	9.150	34.674



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.825	34.150		
20.0	29.682	34.159		
30.0	29.397	34.271		
40.0	29.295	34.276		
50.0	29.260	34.311		
75.0	28.202	34.551		
100.0	25.317	35.178		
125.0	23.386	35.531		
150.0	20.555	35.161		
200.0	12.571	34.983		
250.0	11.705	34.855		
300.0	11.336	34.826		
400.0	9.976	34.729		
500.0	9.165	34.674		

# EQUALIS - station228

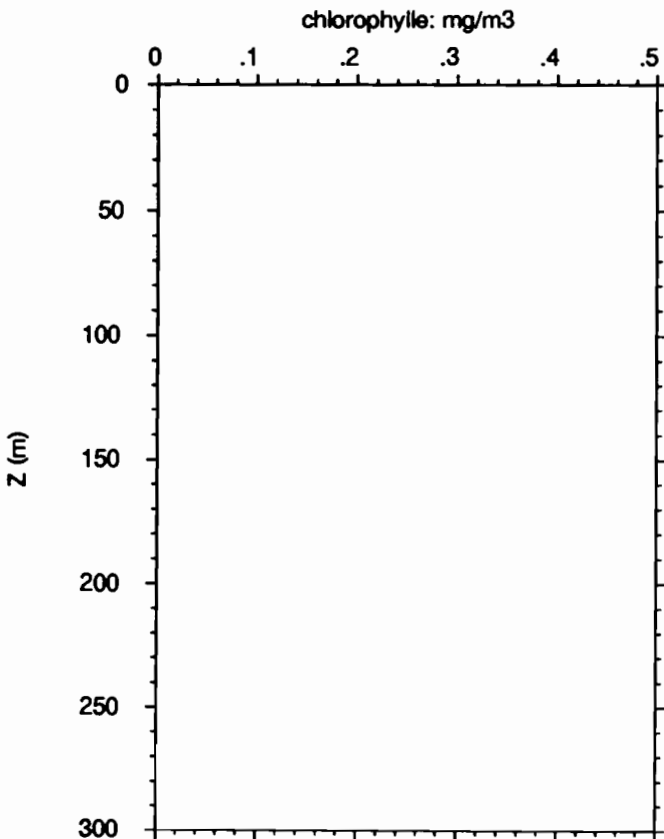
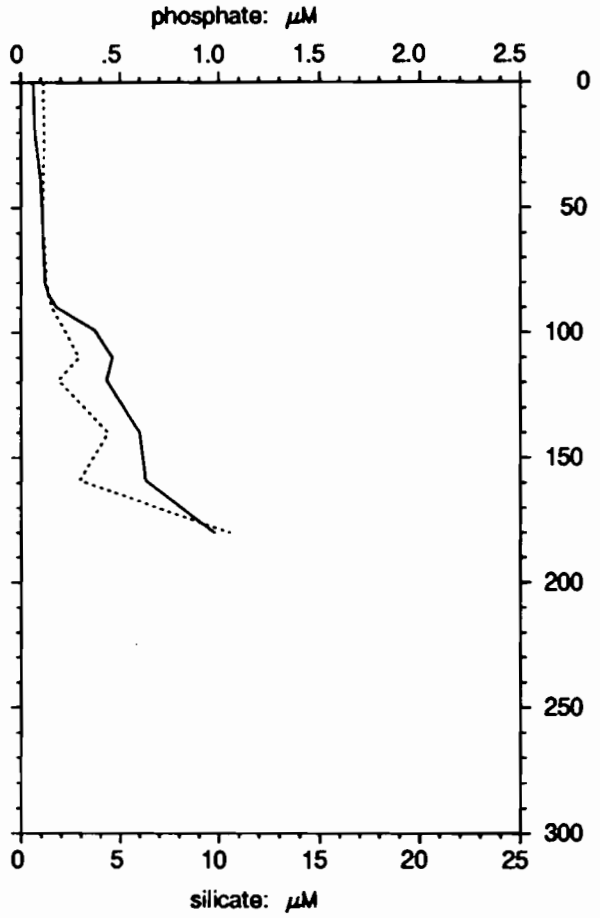
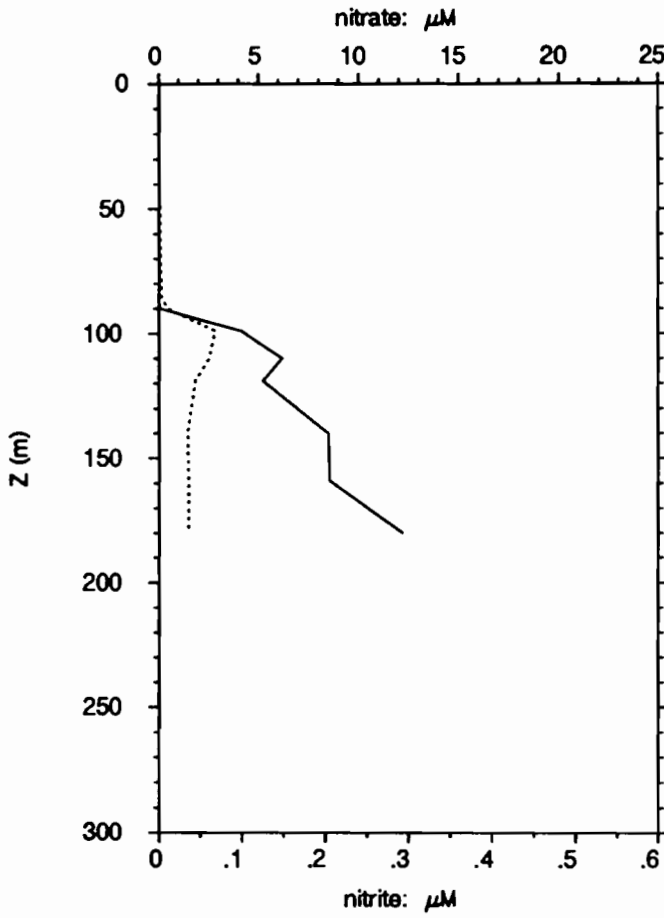
1°45 S 156°10 E

5/12/92, 1h48 TU

5/12/92, 11h48 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
0	0.005	0.001	0.06	1.1
20	0.003	0.001	0.07	1.2
40	0.004	0.001	0.10	1.1
60	0.003	0.002	0.11	1.1
80	0.003	0.003	0.12	1.3
85	0.004	0.003	0.14	1.4
90	0.037	0.010	0.18	1.5
99	4.13	0.068	0.37	2.2
110	6.18	0.061	0.46	2.9
119	5.23	0.044	0.43	1.9
140	8.48	0.035	0.60	4.4
159	8.57	0.036	0.63	3.0
180	12.20	0.036	0.98	10.6

Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.40	34.18			
20	29.62	34.08			
40	29.30	34.22			
60	28.77	34.25			
80	27.93	34.61			
85	27.77	34.53			
90	26.72	34.98			
99	25.28	34.89			
110	24.45	34.90			
119	23.58	35.21			
140	21.49	34.88			
159	20.55	34.66			
180	16.81	35.12			

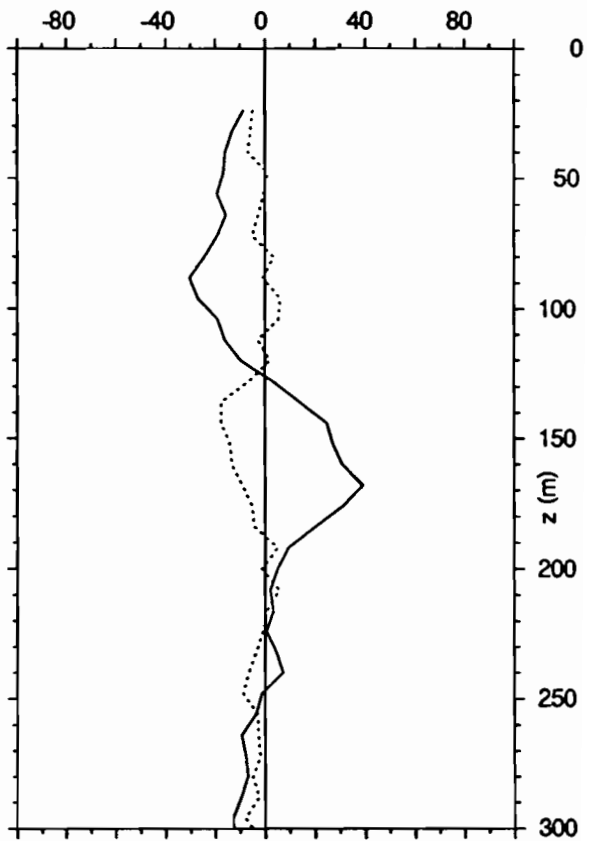
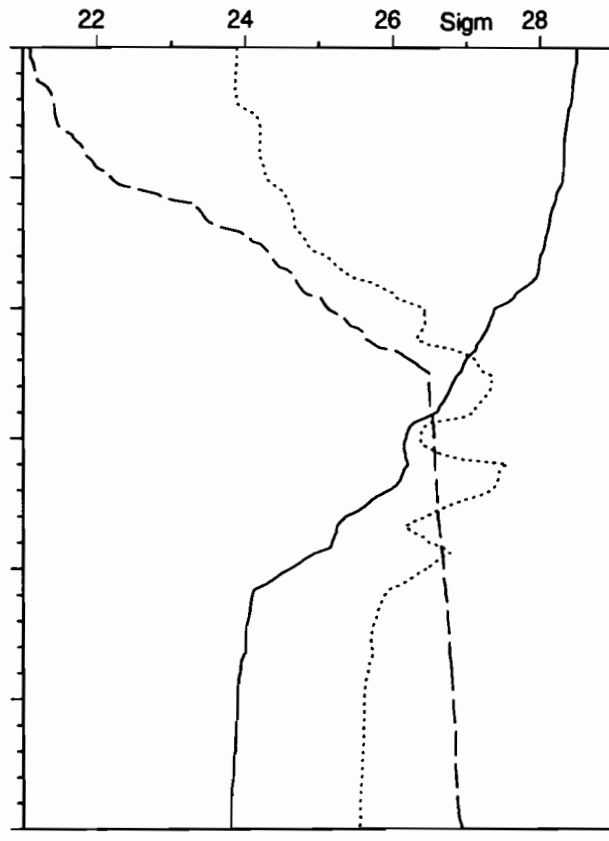
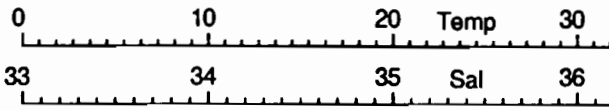


# EQUALIS -station 229

5/12/92, 4h 0 TU

1°45 S 156°10 E

5/12/92, 14h 0 locale

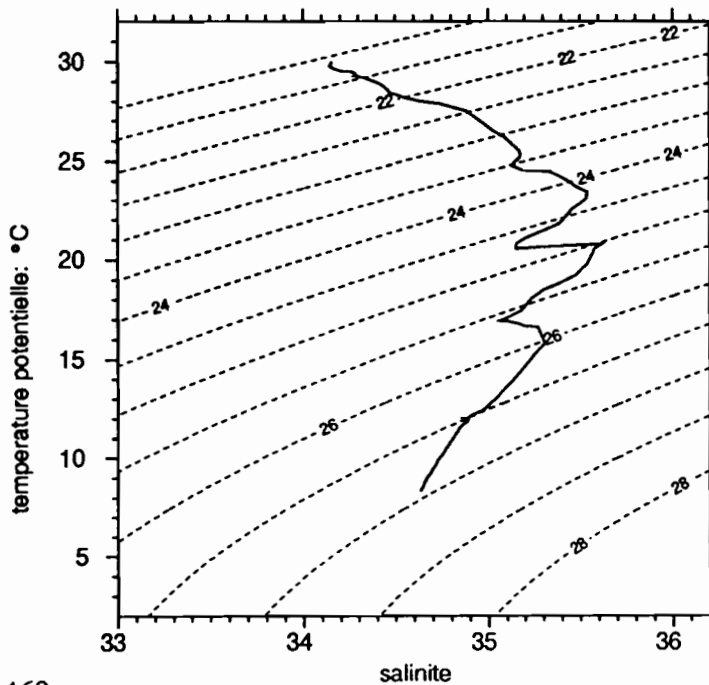


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	6.0	29.976	34.154
fin	500.0	8.403	34.633

	Z	U	V
debut	24.0	-8.5	-4.9
fin	416.0	2.7	-15.5



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.843	34.148		
20.0	29.709	34.155		
30.0	29.425	34.280	-12.0	-5.5
40.0	29.288	34.278	-15.9	-6.8
50.0	29.228	34.315	-17.4	0.7
75.0	28.258	34.533	-21.0	-1.8
100.0	25.511	35.171	-23.0	5.9
125.0	23.596	35.507	-1.8	-3.2
150.0	20.695	35.150	26.5	-14.9
200.0	14.456	35.179	5.1	-1.2
250.0	11.557	34.843	-1.9	-7.2
300.0	11.172	34.818	-12.6	-5.0
400.0	9.673	34.712	1.6	0.4
500.0	8.403	34.633		

# EQUALIS - station229

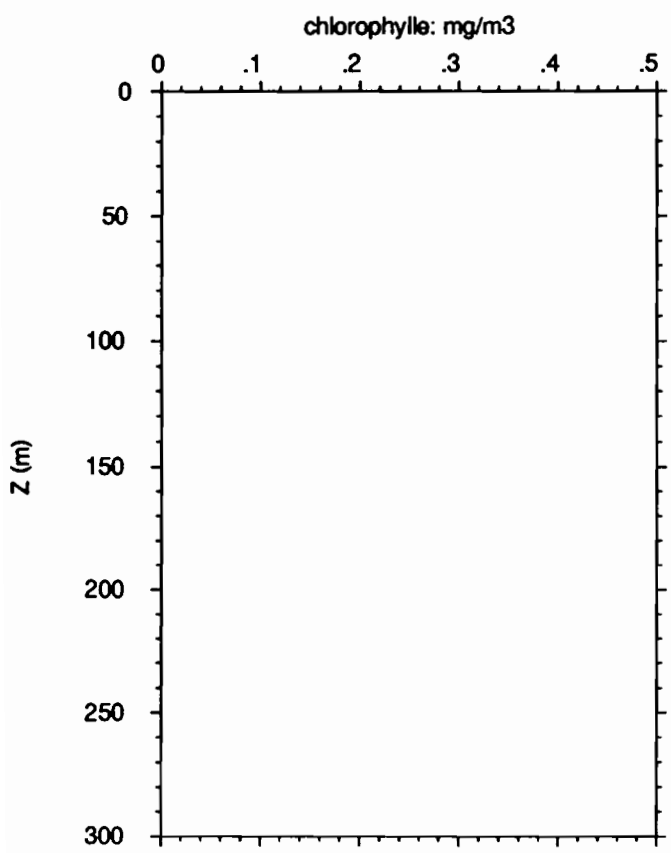
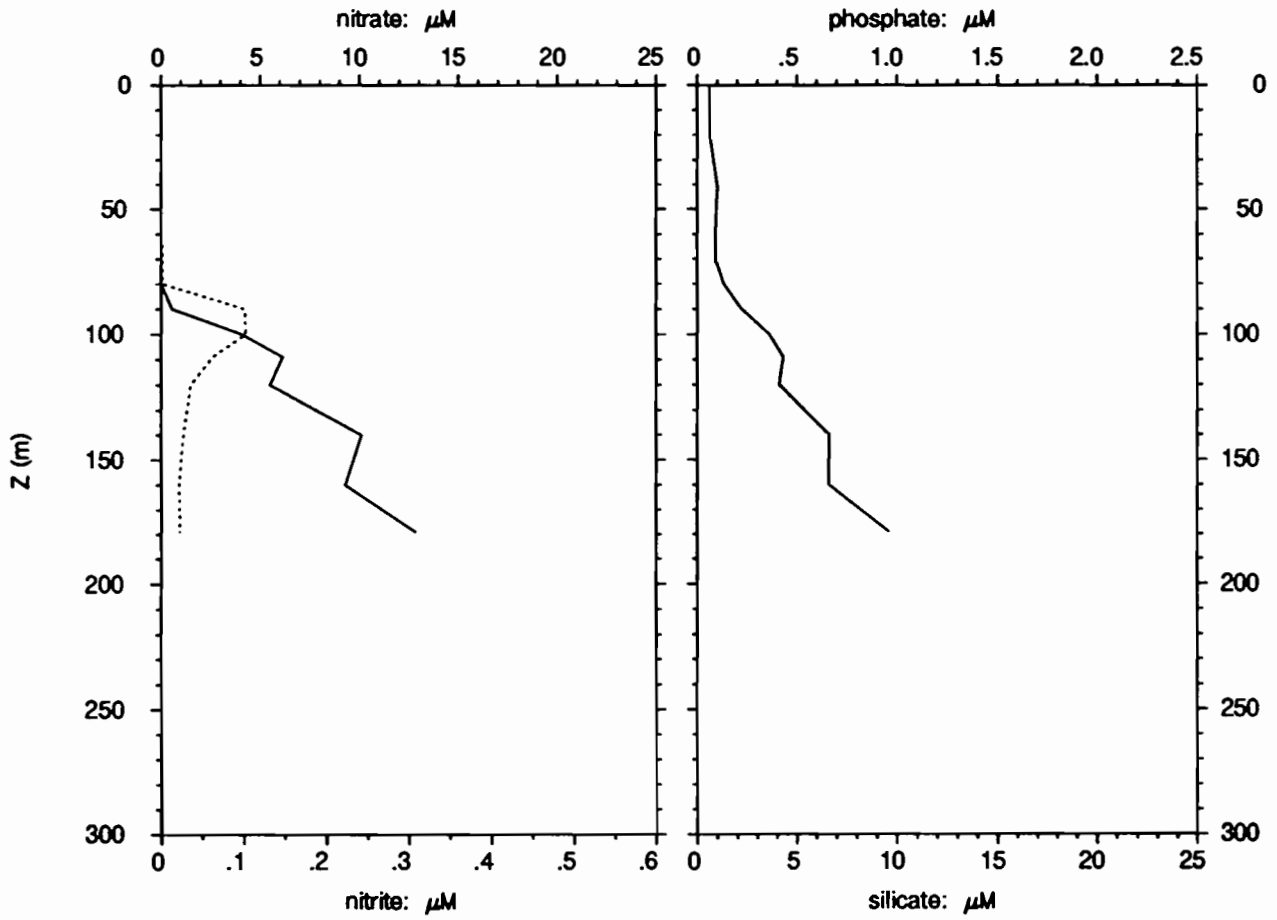
1°45 S 156°10 E

5/12/92, 4h 0 TU

5/12/92, 14h 0 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.007	0.000	0.06	
19	0.006	0.000	0.06	
41	0.006	0.000	0.10	
59	0.007	0.001	0.09	
70	0.006	0.002	0.09	
80	0.004	0.002	0.13	
90	0.561	0.101	0.22	
100	4.09	0.102	0.36	
109	6.13	0.062	0.43	
120	5.50	0.036	0.41	
140	10.09	0.027	0.66	
160	9.28	0.022	0.66	
179	12.83	0.023	0.96	

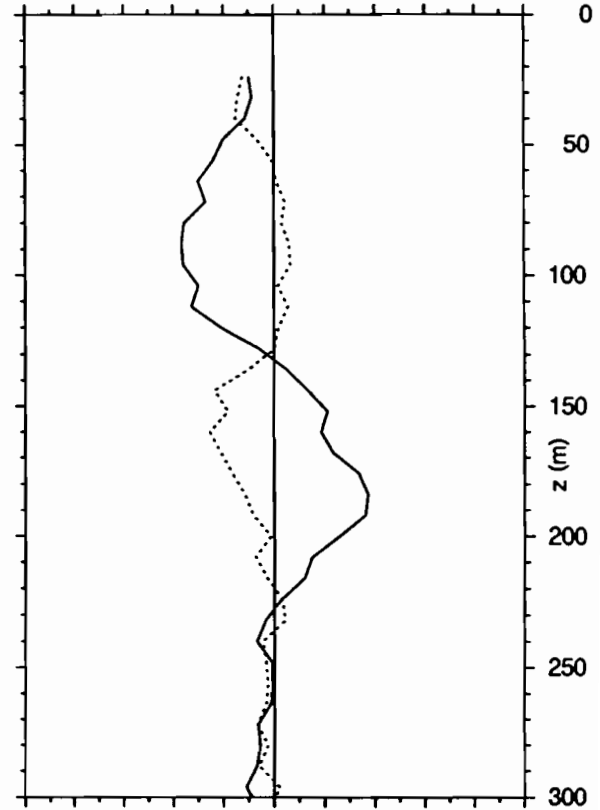
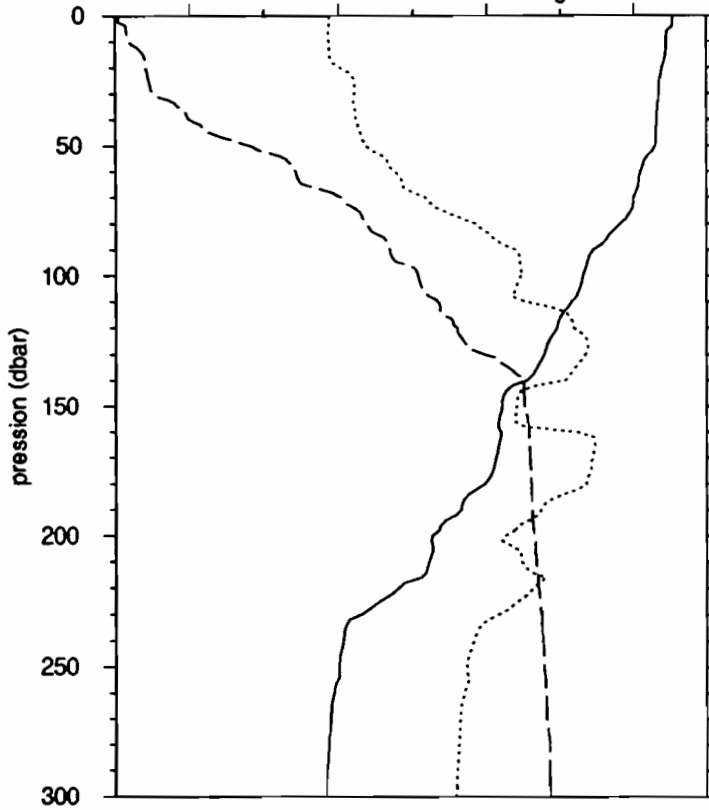
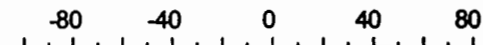
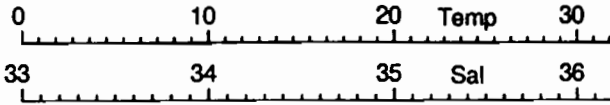
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.70	34.18			
19	29.66	34.10			
41	29.29	34.21			
59	28.59	34.39			
70	28.25	34.40			
80	27.91	34.47			
90	26.67	34.45			
100	25.35	34.85			
109	24.60	34.86			
120	24.60	35.48			
140	20.90	35.03			
160	20.52	34.60			
179	17.11	35.07			

# EQUALIS -station 230

5/12/92, 6h59 TU

1°45 S 156°10 E

5/12/92, 16h59 locale

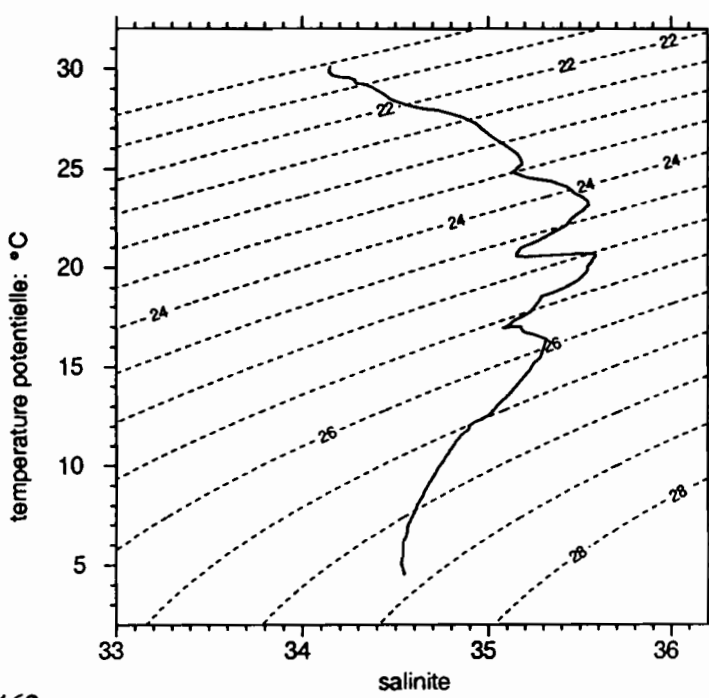


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	30.138	34.150
fin	998.0	4.594	34.545

	Z	U	V
debut	24.0	-9.7	-12.3
fin	408.0	16.1	3.8



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.816	34.148		
20.0	29.573	34.207		
30.0	29.377	34.283	-8.9	-13.7
40.0	29.282	34.291	-11.3	-15.0
50.0	29.197	34.344	-21.0	-5.1
75.0	27.855	34.759	-30.3	3.8
100.0	25.213	35.183	-33.0	4.1
125.0	23.338	35.544	-11.3	0.7
150.0	20.793	35.159	19.2	-19.4
200.0	17.013	35.097	26.0	-1.2
250.0	12.021	34.890	-0.8	-2.9
300.0	11.311	34.831	-8.7	0.8
400.0	9.966	34.732	1.3	8.6
500.0	9.021	34.670		
600.0	6.631	34.558		
700.0	6.027	34.539		
800.0	5.565	34.539		
900.0	4.881	34.540		

# EQUALIS - station230

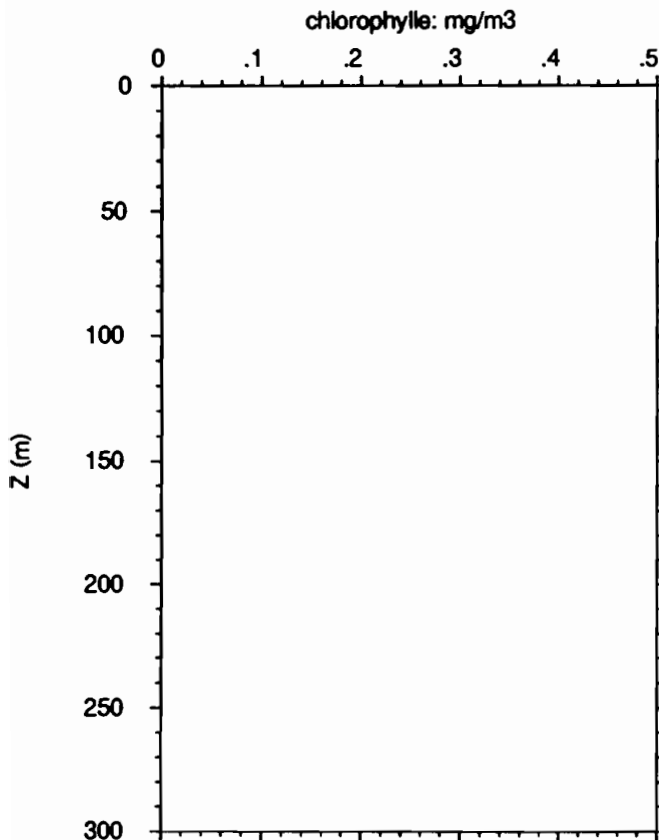
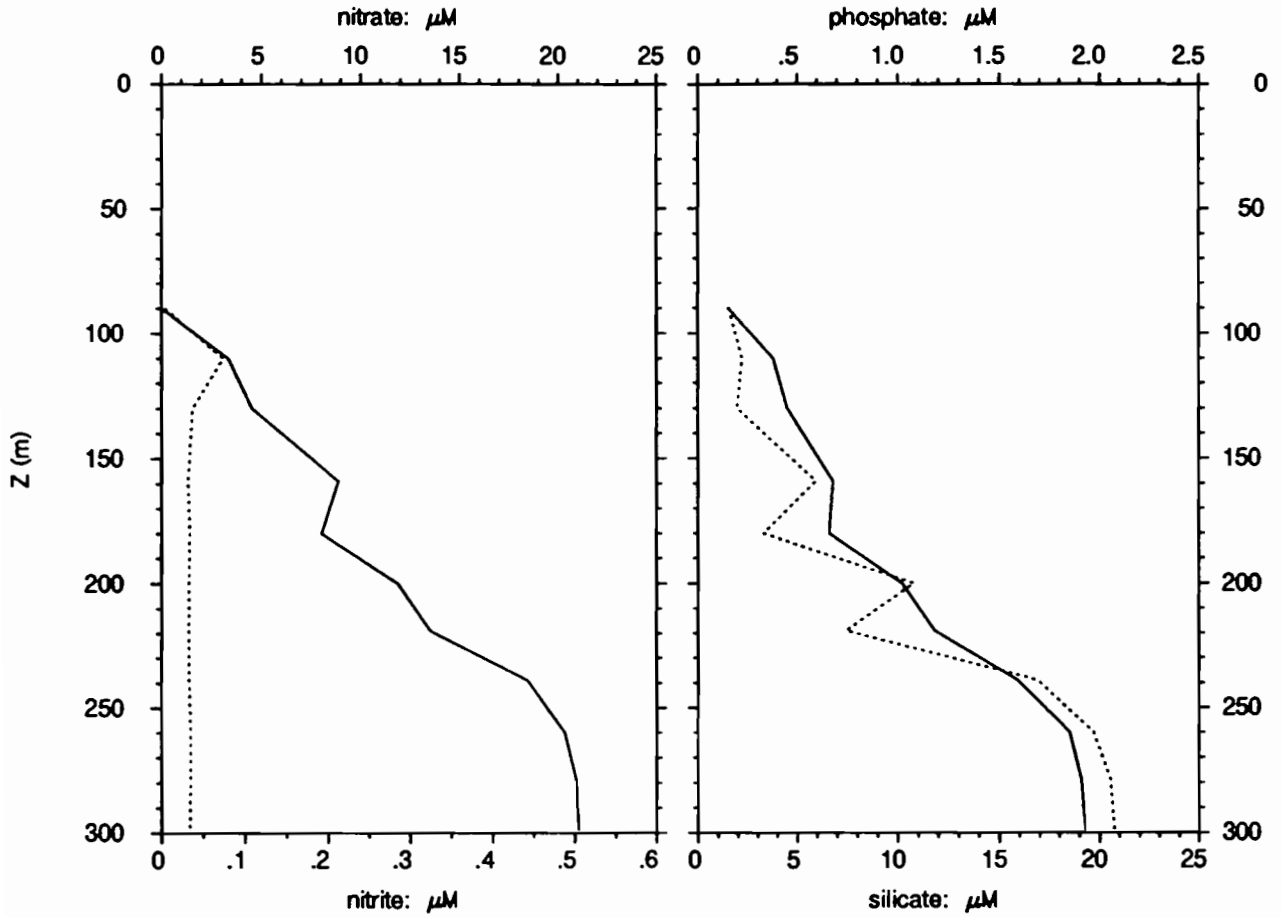
1°45 S 156°10 E

5/12/92, 6h59 TU

5/12/92, 16h59 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 $\mu\text{M}$	NO2 $\mu\text{M}$	PO4 $\mu\text{M}$	SiO2 $\mu\text{M}$
90	0.006	0.004	0.15	1.5
110	3.33	0.074	0.38	2.2
130	4.53	0.037	0.45	2.0
159	8.87	0.032	0.68	5.9
180	8.01	0.034	0.66	3.3
200	11.87	0.033	1.02	10.8
219	13.52	0.033	1.18	7.4
239	18.44	0.033	1.59	16.9
260	20.31	0.035	1.85	19.7
279	20.91	0.035	1.91	20.5
299	21.03	0.034	1.93	20.7
1001	27.80	0.027	2.93	62.4

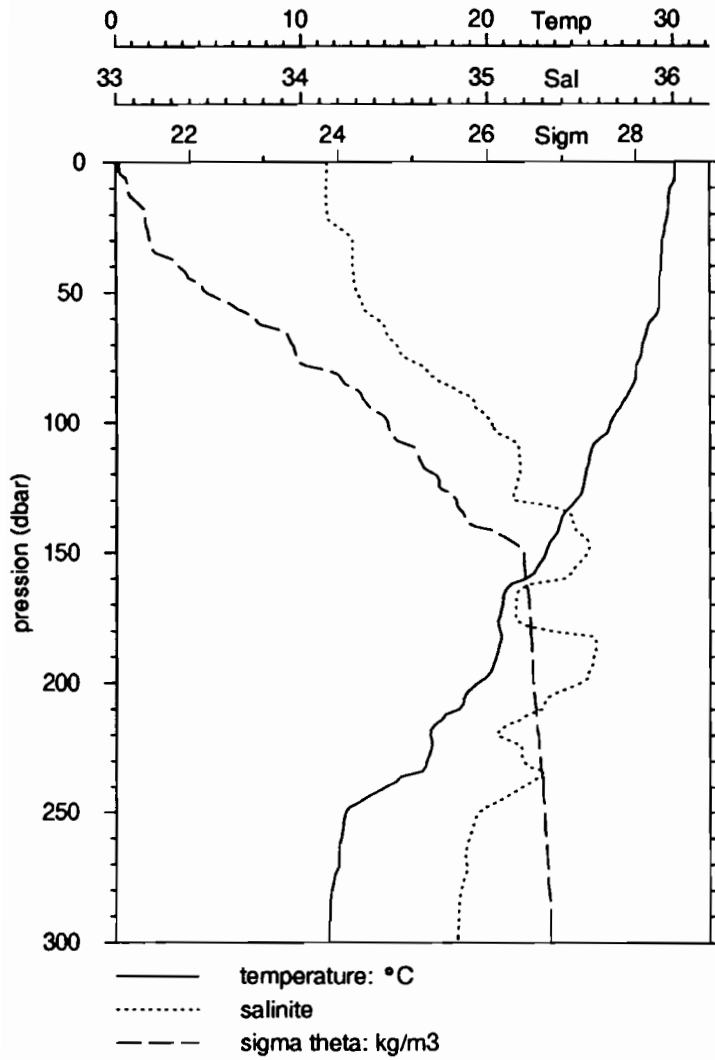
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
90	27.54	34.15			
110	25.18	34.29			
130	23.34	34.97			
159	20.63	35.10			
180	19.87	33.85			
200	16.85	34.21			
219	14.77	33.95			
239	12.19	34.71			
260	11.66	34.79			
279	11.45	34.75			
299	11.31	34.82			
1001	4.59	34.54			

# EQUALIS -station 231

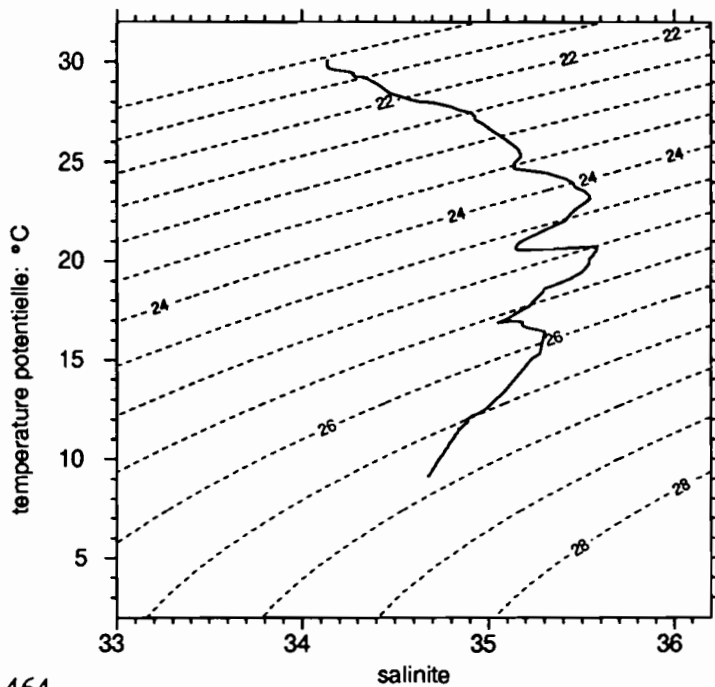
1°45 S 156°10 E

5/12/92, 7h46 TU

5/12/92, 17h46 locale



	P	T	S
debut	6.0	30.100	34.138
fin	500.0	9.150	34.675



P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.841	34.135		
20.0	29.731	34.143		
30.0	29.425	34.278		
40.0	29.361	34.275		
50.0	29.269	34.299		
75.0	28.191	34.559		
100.0	26.588	35.020		
125.0	25.093	35.153		
150.0	23.115	35.531		
200.0	19.454	35.494		
250.0	12.376	34.952		
300.0	11.451	34.837		
400.0	10.147	34.745		
500.0	9.150	34.675		

# EQUALIS - station231

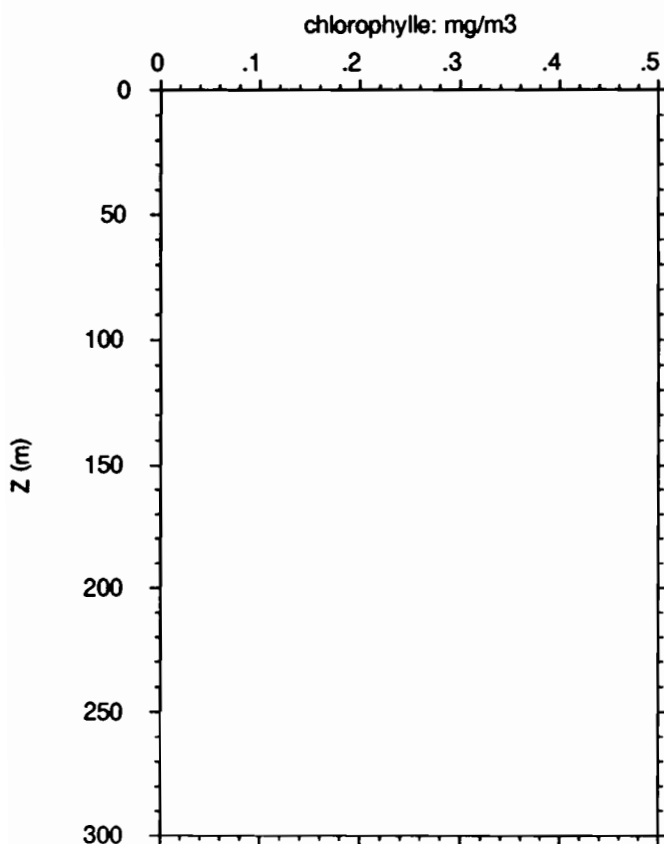
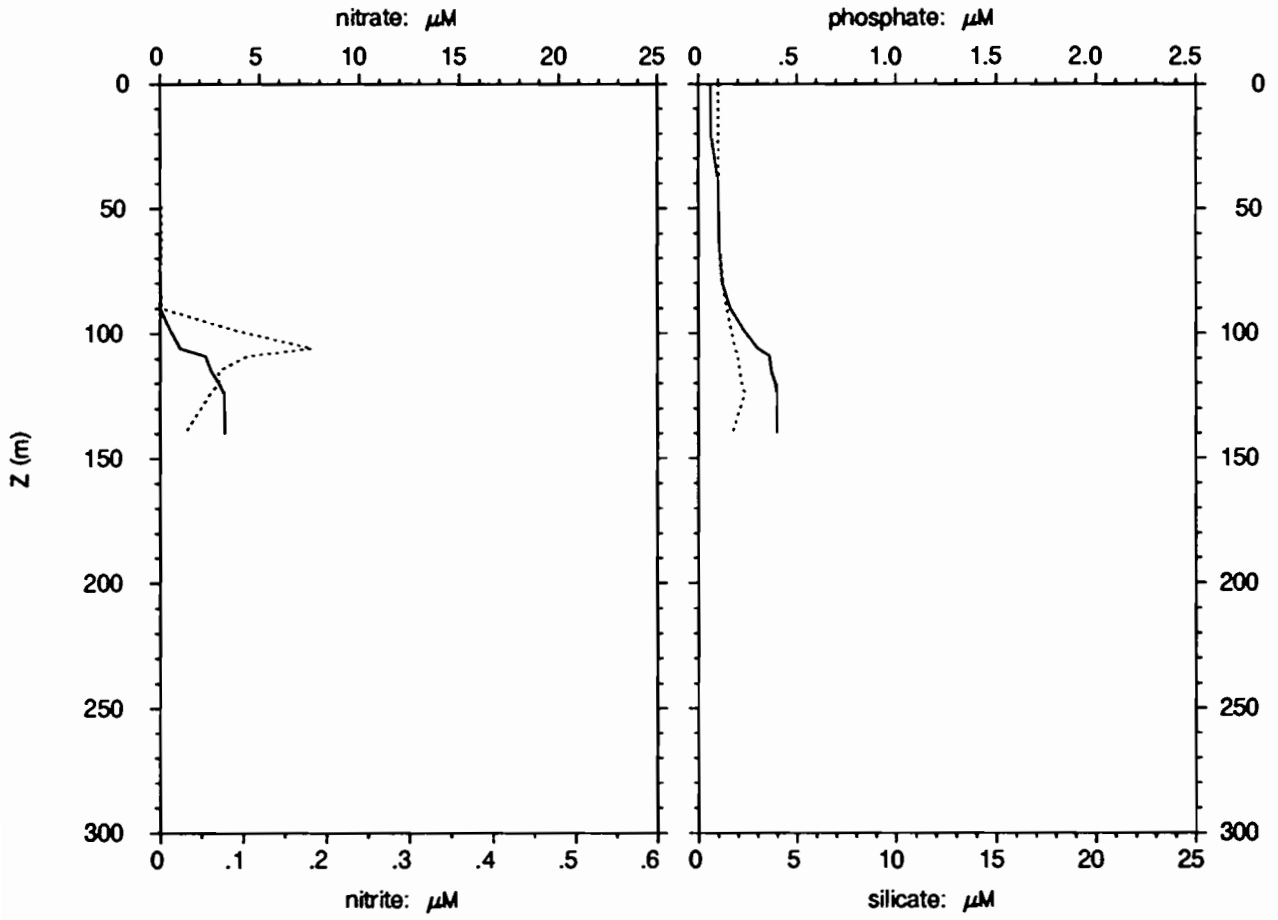
1°45 S 156°10 E

5/12/92, 7h46 TU

5/12/92, 17h46 locale

— nitrate  
 ..... nitrite

— phosphate  
 ..... silicate



Z m	NO3 µM	NO2 µM	PO4 µM	SiO2 µM
0	0.003	0.000	0.06	1.0
19	0.003	0.000	0.06	1.0
40	0.002	0.001	0.10	1.0
60	0.004	0.002	0.10	1.0
80	0.003	0.001	0.12	1.2
90	0.002	0.002	0.16	1.4
99	0.536	0.093	0.23	1.6
106	1.030	0.183	0.30	1.8
109	2.30	0.105	0.36	2.0
115	2.57	0.071	0.37	2.1
120	2.97	0.071	0.39	2.2
124	3.23	0.061	0.40	2.3
140	3.26	0.030	0.40	1.7

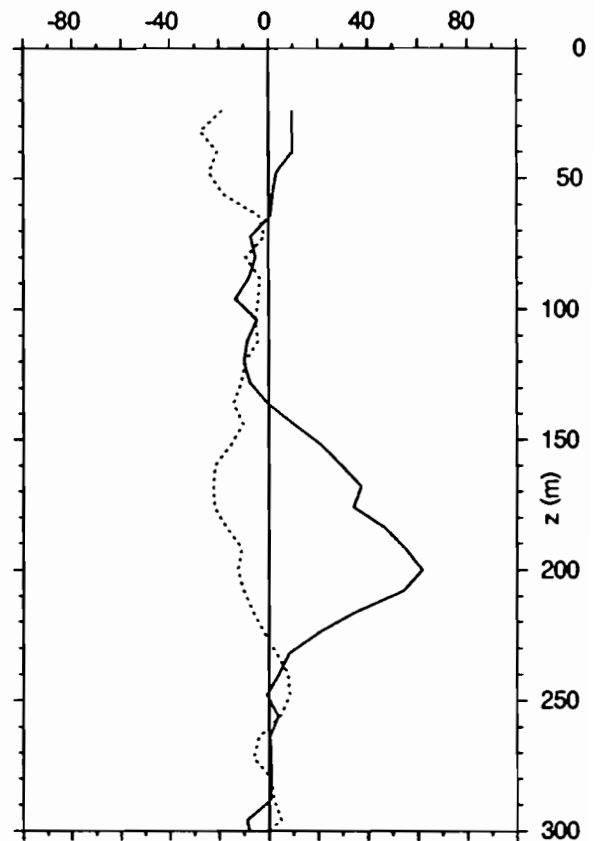
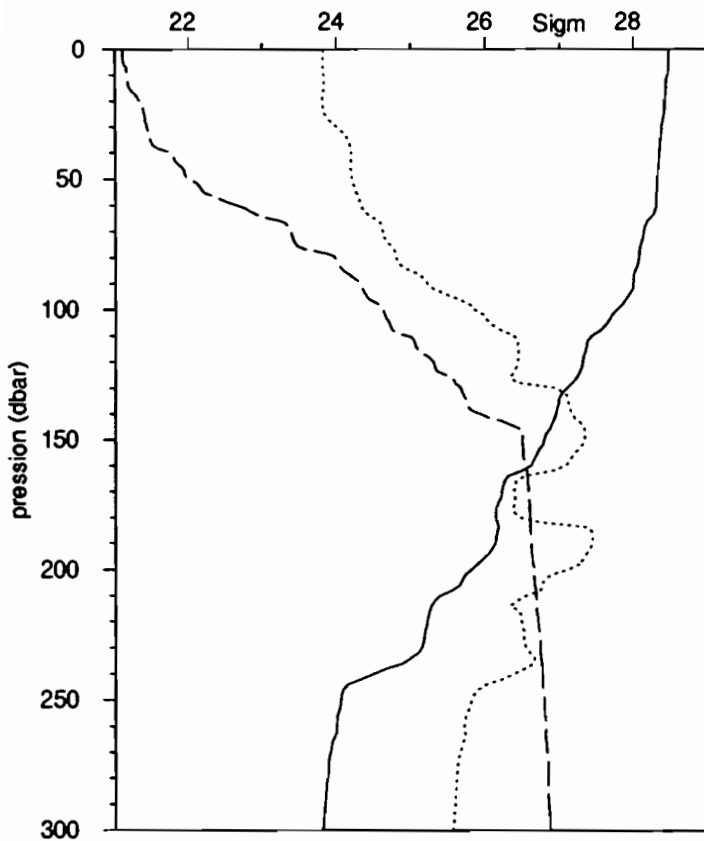
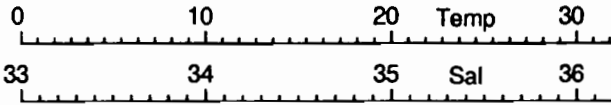
Z m	T °C	S	Chl mg/m3	Pheo mg/m3	%Pheo %
0	30.32	34.16			
19	29.73	34.06			
40	29.38	34.21			
60	29.12	34.00			
80	27.98	34.52			
90	27.48	34.59			
99	26.54	34.67			
106	25.92	34.85			
109	25.54	35.06			
115	25.40	35.06			
120	25.24	35.03			
124	25.13	34.54			
140	23.82	35.43			

# EQUALIS -station 232

1°45 S 156°10 E

5/12/92, 9h57 TU

5/12/92, 19h57 locale

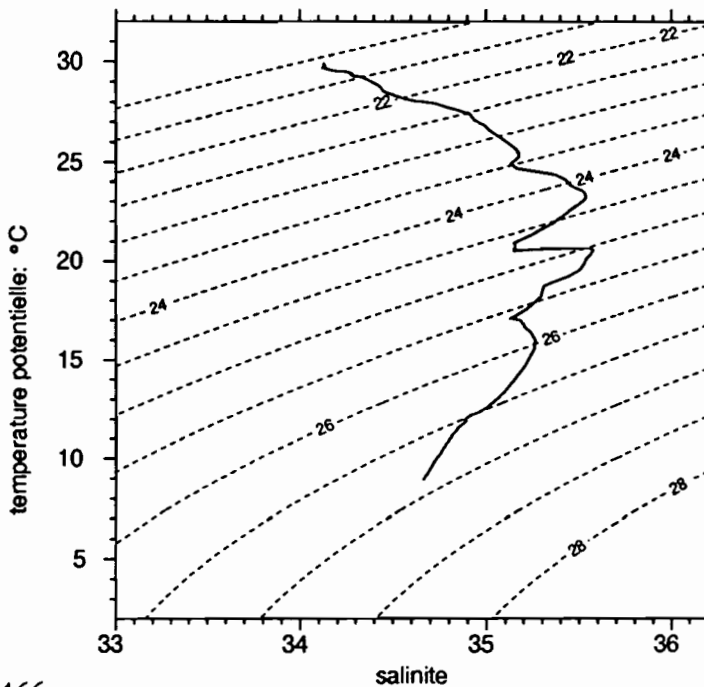


— temperature: °C  
- - - salinite  
- - - sigma theta: kg/m3

— composante zonale: cm/s  
- - - composante meridienne: cm/s

	P	T	S
debut	4.0	29.911	34.126
fin	502.0	8.958	34.664

	Z	U	V
debut	24.0	9.7	-18.7
fin	352.0	-15.5	4.3



P dbar	T °C	S	U cm/s	V cm/s
10.0	29.852	34.131		
20.0	29.700	34.125		
30.0	29.527	34.201	9.8	-25.4
40.0	29.413	34.279	9.7	-20.7
50.0	29.291	34.283	2.8	-22.6
75.0	28.406	34.488	-6.5	-4.5
100.0	27.111	34.940	-9.1	-4.8
125.0	25.003	35.142	-8.5	-10.4
150.0	23.151	35.532	18.5	-14.0
200.0	19.261	35.445	61.8	-12.4
250.0	12.241	34.928	0.4	7.6
300.0	11.273	34.827	-7.9	-0.7
400.0	9.916	34.727		
500.0	8.999	34.666		

**EQUALIS - station232**

**1°45 S 156°10 E**

**5/12/92, 9h57 TU**

**5/12/92, 19h57 locale**

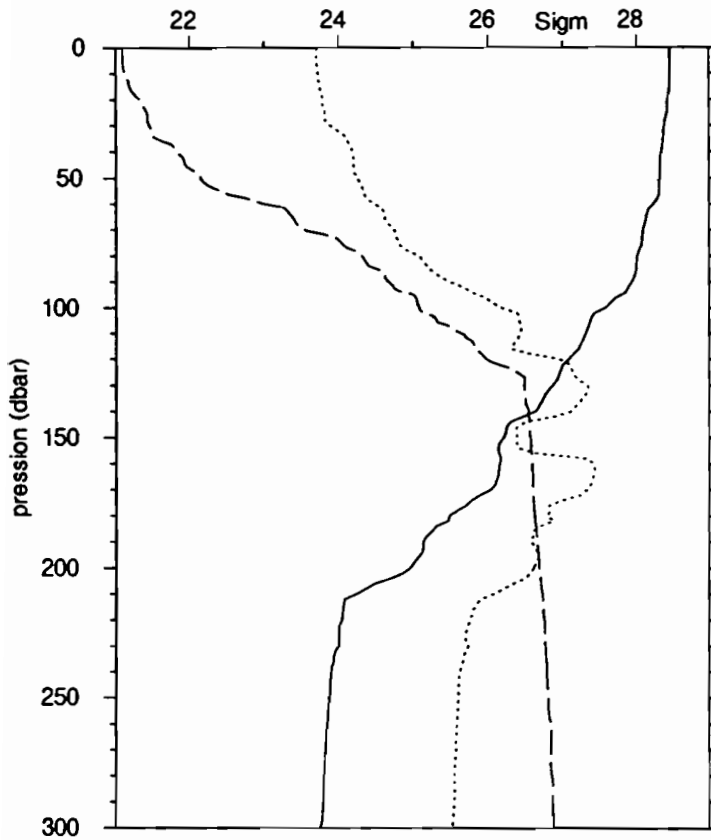
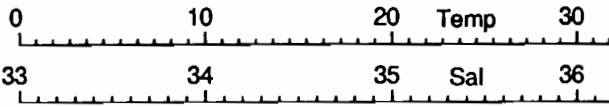


# EQUALIS -station 233

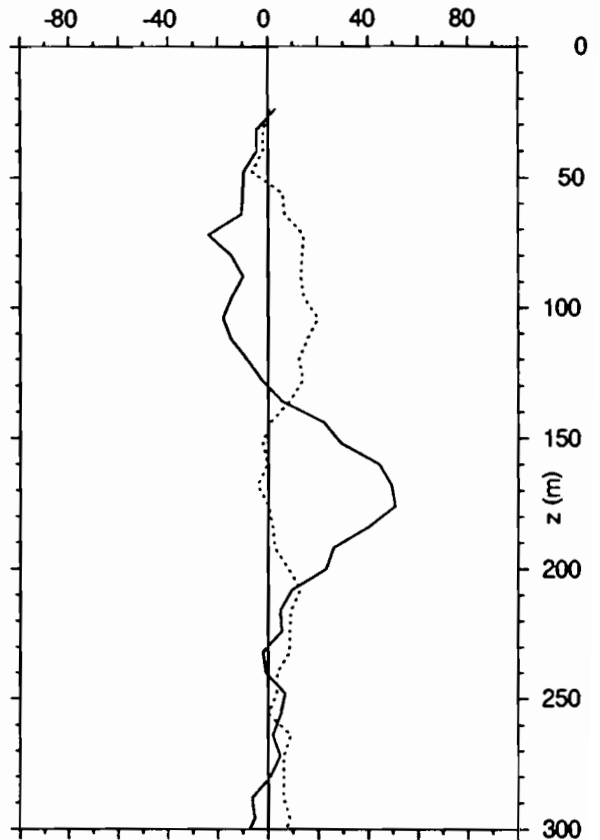
5/12/92, 13h 2 TU

1°45 S 156°10 E

5/12/92, 23h 2 locale



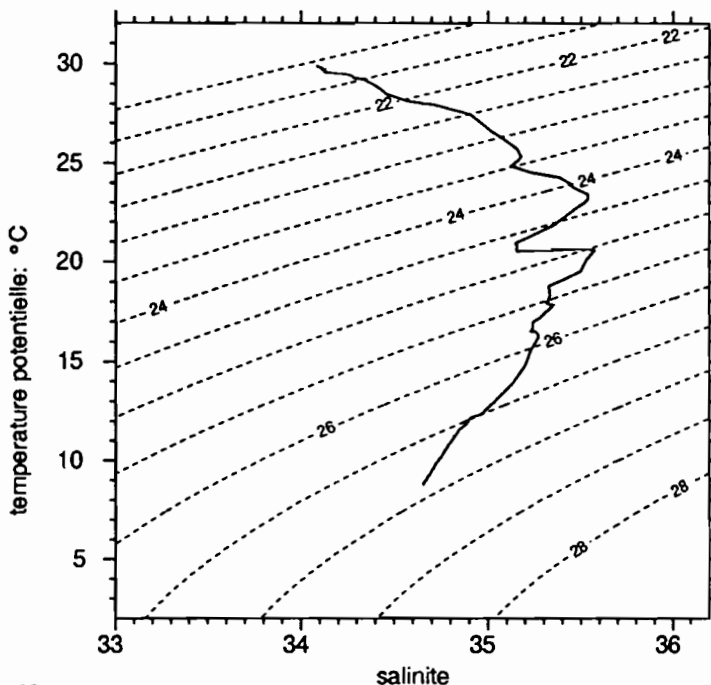
— temperature: °C  
 ..... salinite  
 - - - sigma theta: kg/m3



— composante zonale: cm/s  
 ..... composante meridienne: cm/s

	P	T	S
debut	6.0	29.850	34.083
fin	500.0	8.825	34.653

	Z	U	V
debut	24.0	3.0	0.8
fin	352.0	0.5	11.9



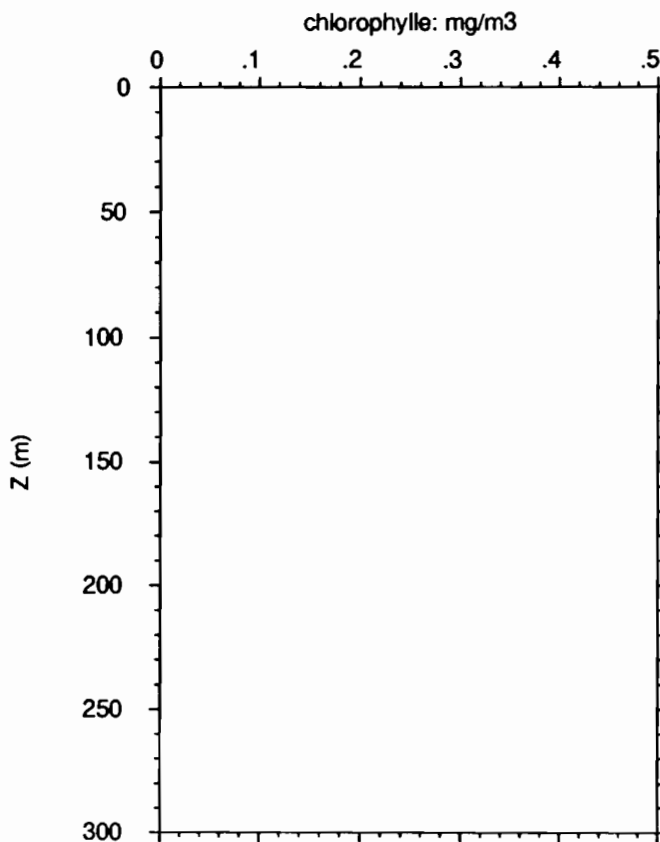
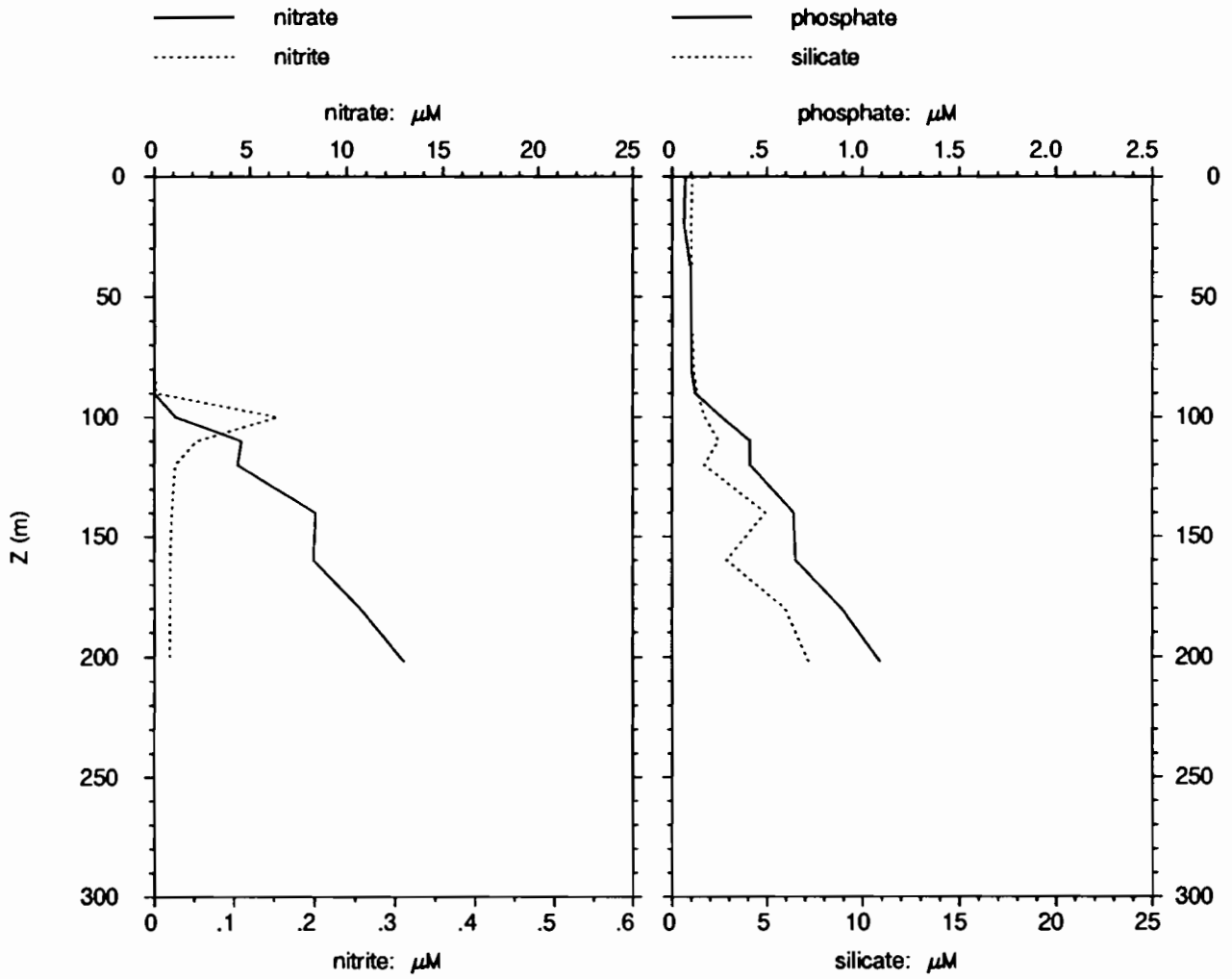
P	T	S	U	V
dbar	°C		cm/s	cm/s
10.0	29.853	34.090		
20.0	29.712	34.113		
30.0	29.533	34.153	-2.6	-1.1
40.0	29.366	34.277	-4.4	-2.0
50.0	29.272	34.302	-9.8	-3.3
75.0	28.294	34.523	-20.4	14.0
100.0	26.310	35.070	-16.2	17.1
125.0	23.859	35.455	-4.7	13.4
150.0	20.834	35.156	27.4	-1.3
200.0	15.855	35.244	23.2	8.2
250.0	11.498	34.840	6.4	2.7
300.0	11.021	34.806	-7.4	7.2
400.0	9.645	34.709		
500.0	8.825	34.653		

# EQUALIS - station233

1° 45 S 156° 10 E

5/12/92, 13h 2 TU

5/12/92, 23h 2 locale



Z	NO3	NO2	PO4	SiO2
m	µM	µM	µM	µM
0	0.001	0.001	0.07	1.0
19	0.000	0.000	0.06	1.0
40	0.000	0.001	0.10	1.0
61	0.000	0.001	0.10	1.0
80	0.001	0.001	0.10	1.1
90	0.001	0.002	0.12	1.3
100	1.120	0.155	0.26	1.7
110	4.57	0.053	0.41	2.4
120	4.36	0.026	0.41	1.7
140	8.40	0.022	0.64	4.9
160	8.29	0.020	0.65	2.9
180	10.69	0.020	0.89	5.9
202	12.96	0.019	1.09	7.2

Z	T	S	Chl	Pheo	%Pheo
m	°C		mg/m3	mg/m3	%
0	29.96	34.11			
19	29.68	34.09			
40	29.35	34.21			
61	29.07	34.28			
80	28.14	34.45			
90	27.79	34.36			
100	25.90	34.60			
110	24.93	34.72			
120	23.84	35.03			
140	21.25	35.11			
160	20.61	35.56			
180	17.88	34.63			
202	15.99	35.22			



## ANNEXE 4

### Coupes verticales des paramètres mesurés au cours des stations

#### *Vertical sections of measured parameters during stations*

Pour chacun des deux points fixes:

- coupes verticales de 0 à 300 m de composantes zonale et méridienne de la vitesse ( $\text{cm.s}^{-1}$ ), température ( $^{\circ}\text{C}$ ), salinité,  $\sigma_{\theta}$  ( $\text{kg.m}^{-3}$ ), chlorophylle ( $\text{mg.m}^{-3}$ ), nitrate ( $\mu\text{M}$ ), nitrite ( $\mu\text{M}$ ), phosphate ( $\mu\text{M}$ ) et silicate ( $\mu\text{M}$ )

Les composantes ouest et sud de la vitesse, les températures supérieures à  $29^{\circ}\text{C}$ , les salinités supérieures à 35 et les concentrations en chlorophylle supérieures à  $0.2 \text{ mg.m}^{-3}$  sont grisées. L'origine de l'axe des temps correspond au début du premier trait de sonde de chaque point fixe et les dates sont indiquées en TU.

Note: contrairement aux autres paramètres, le pas d'échantillonnage des silicates est de 6 heures.

*For each fixed station:*

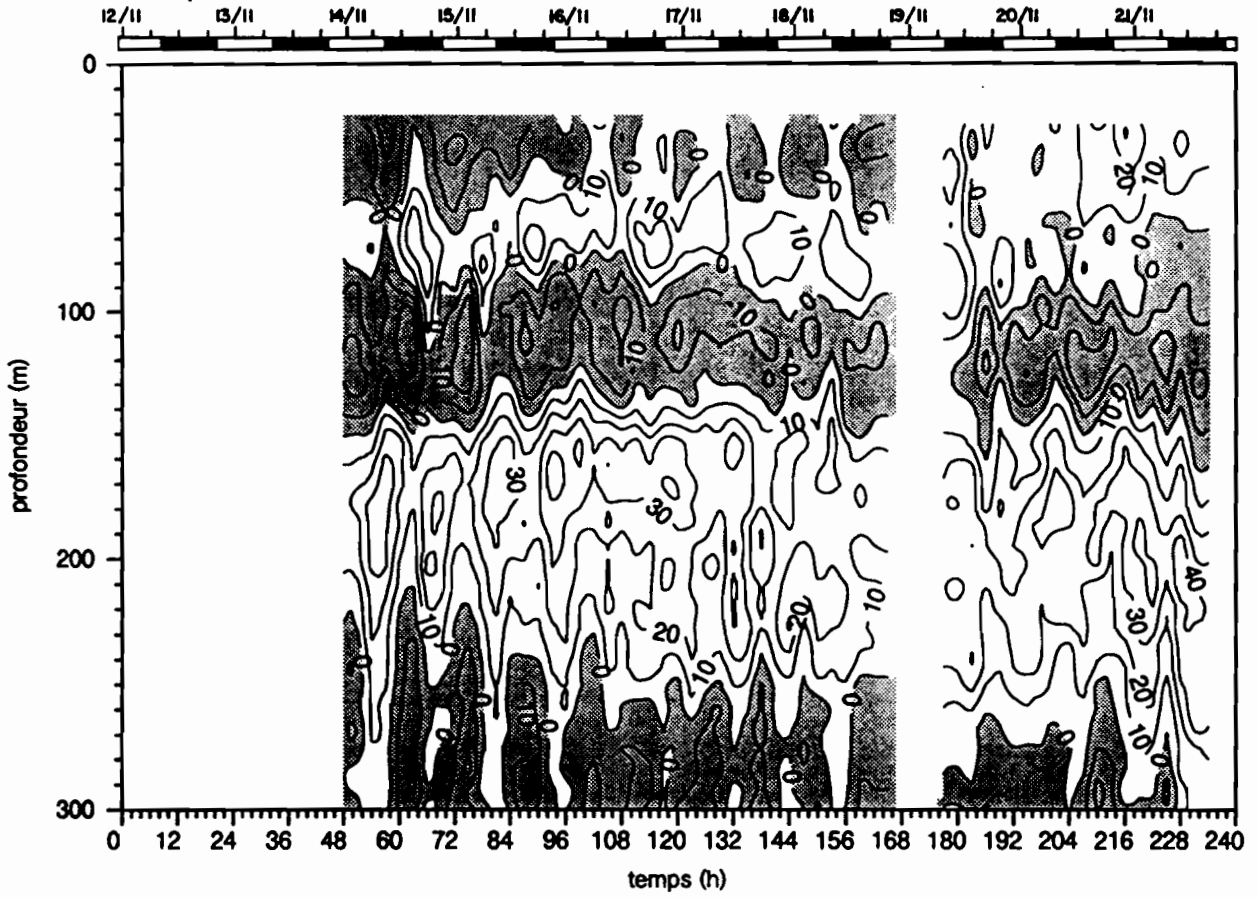
- *0 to 300 m vertical section of zonal and meridional current component ( $\text{cm.s}^{-1}$ ), temperature ( $^{\circ}\text{C}$ ), salinity,  $\sigma_{\theta}$  ( $\text{kg.m}^{-3}$ ), chlorophyll ( $\text{mg.m}^{-3}$ ), nitrate ( $\mu\text{M}$ ), nitrite ( $\mu\text{M}$ ), phosphate ( $\mu\text{M}$ ), and silicate ( $\mu\text{M}$ )*

*Westward and southward current components, temperatures greater than  $29^{\circ}\text{C}$ , salinities greater than 35, and chlorophyll concentrations higher than  $0.2 \text{ mg.m}^{-3}$  are shaded. The origin of the time axis matches the beginning of the first CTD cast of each fixed station and dates are expressed in UT.*

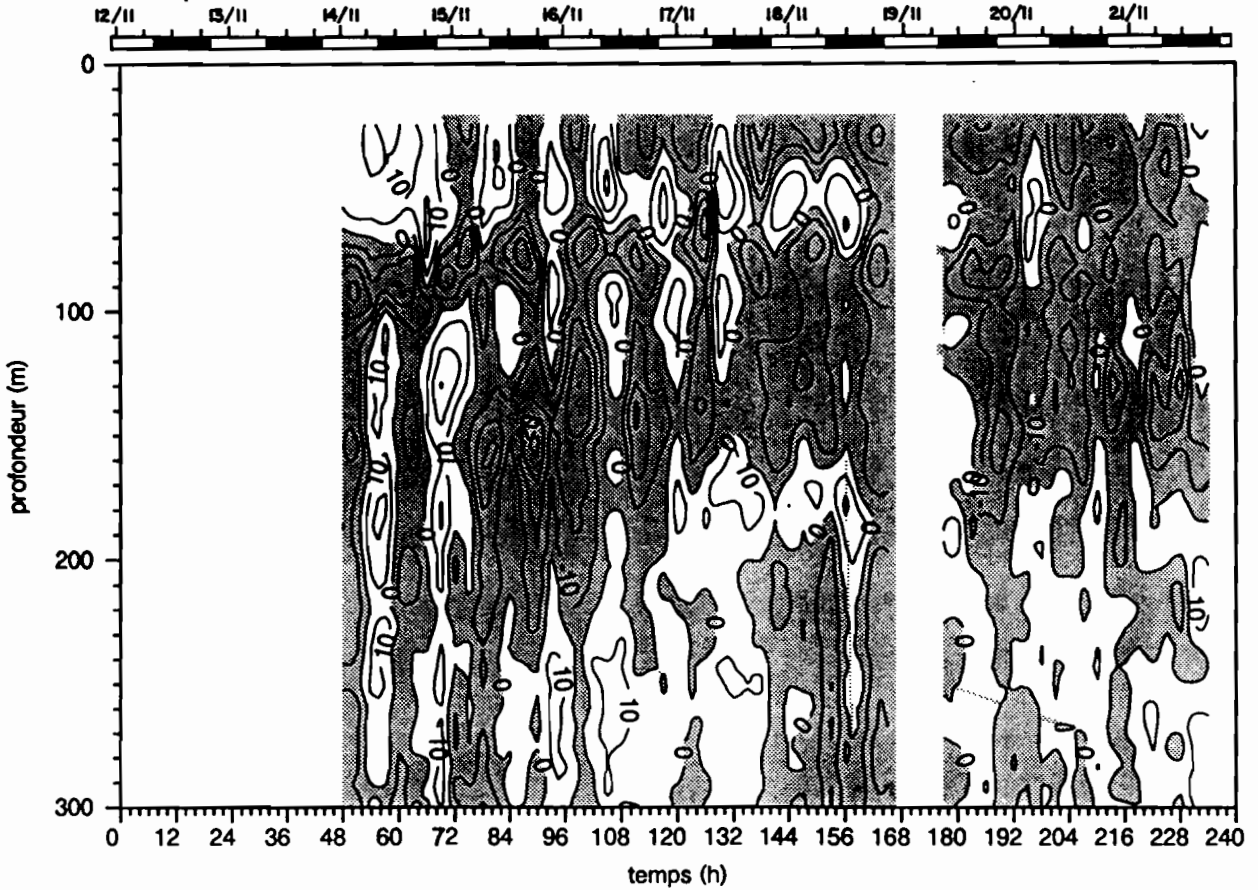
Note: *silicates are sampled every 6 hours instead of 3 hours for other parameters.*

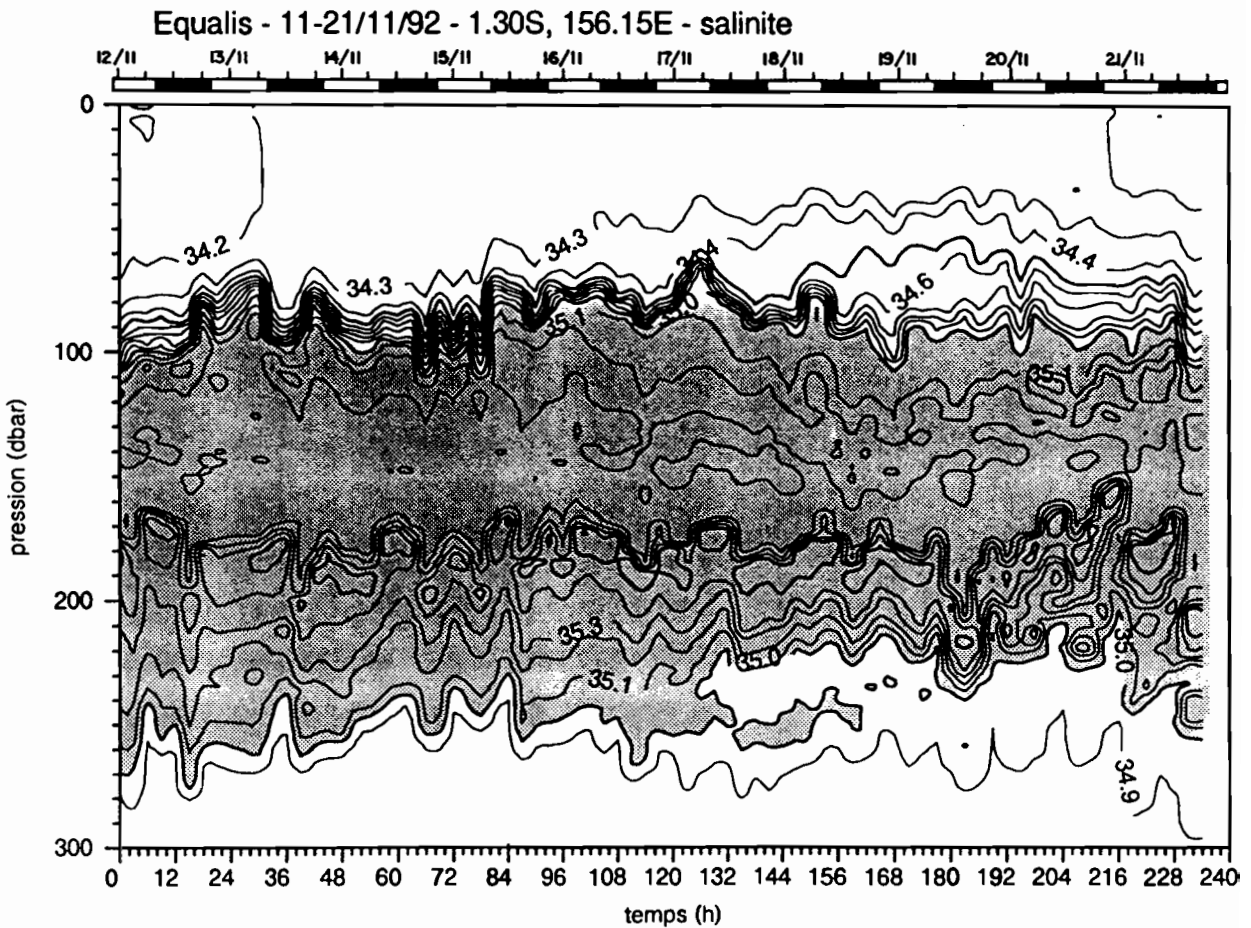
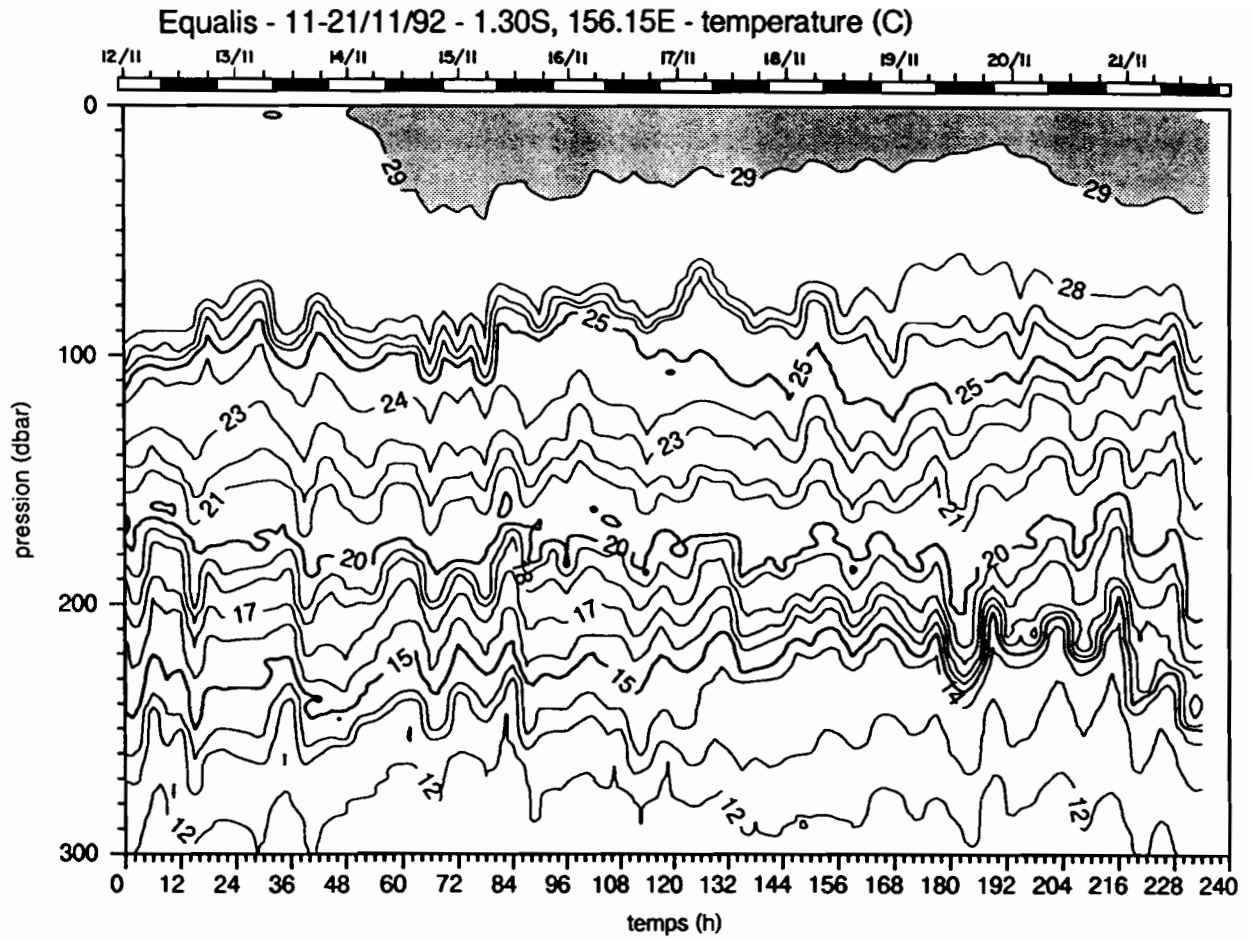


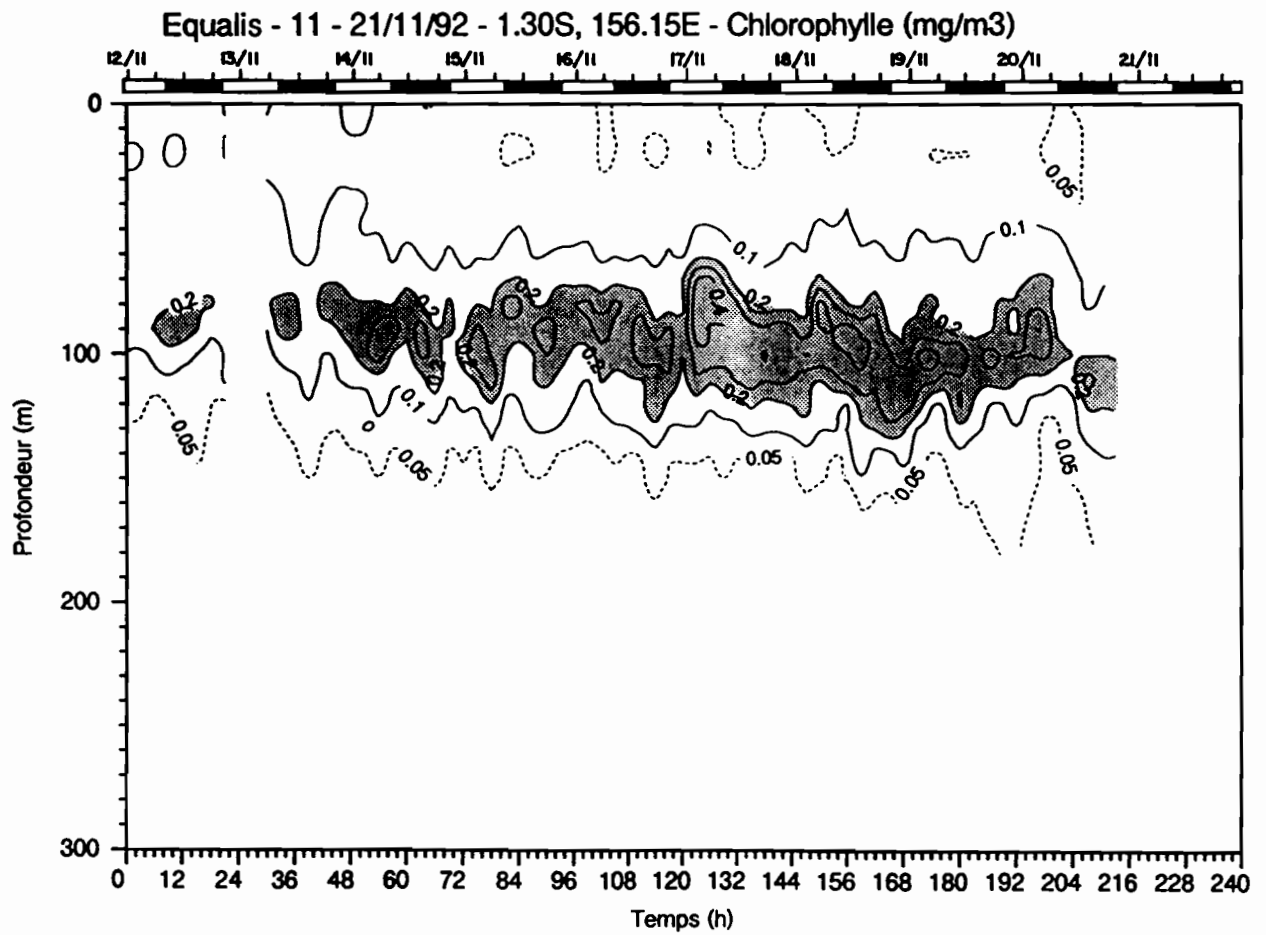
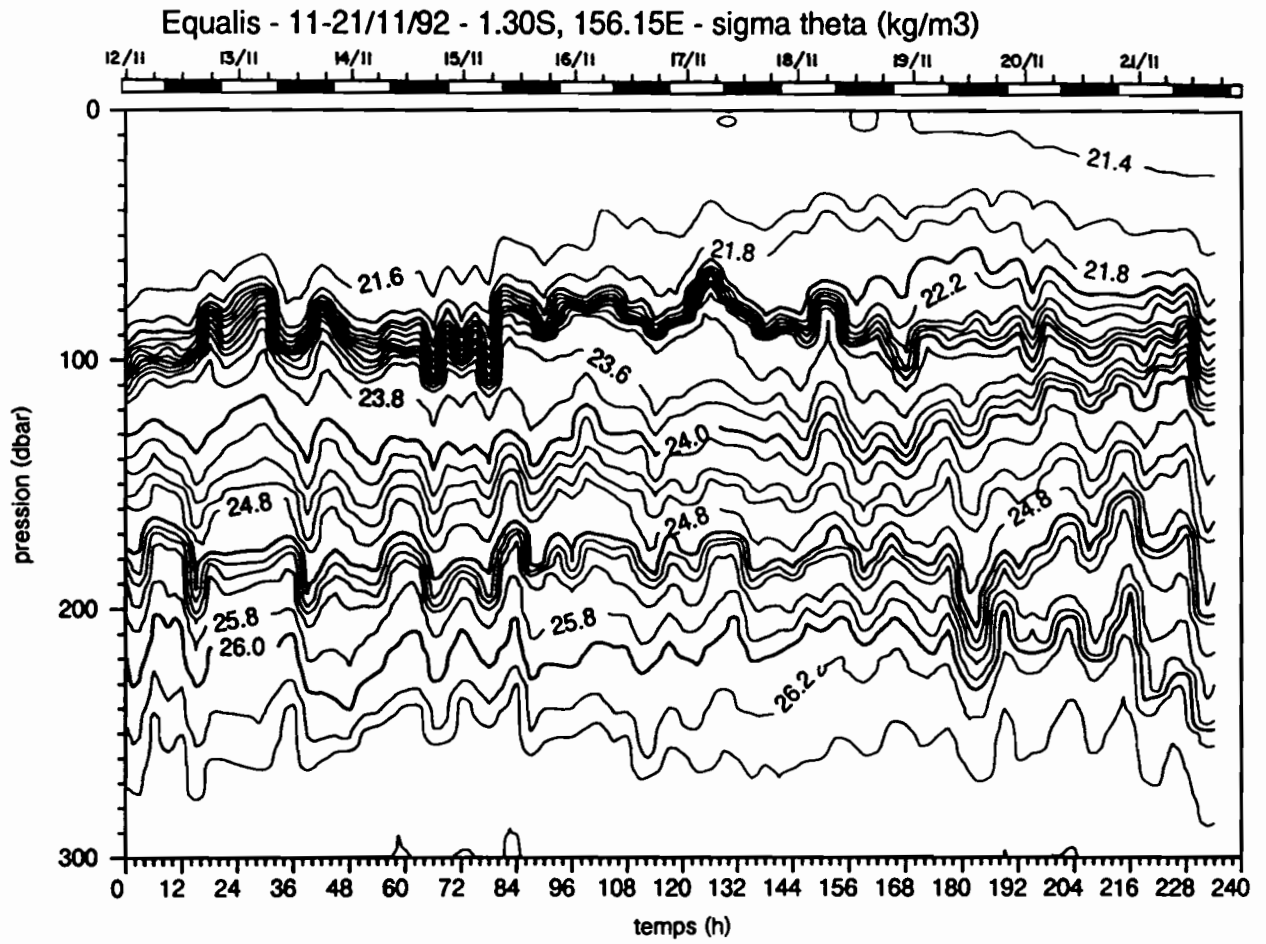
Equalis - 11-21/11/92 - 1.30S, 156.15E - ADCP - U (cm/s)



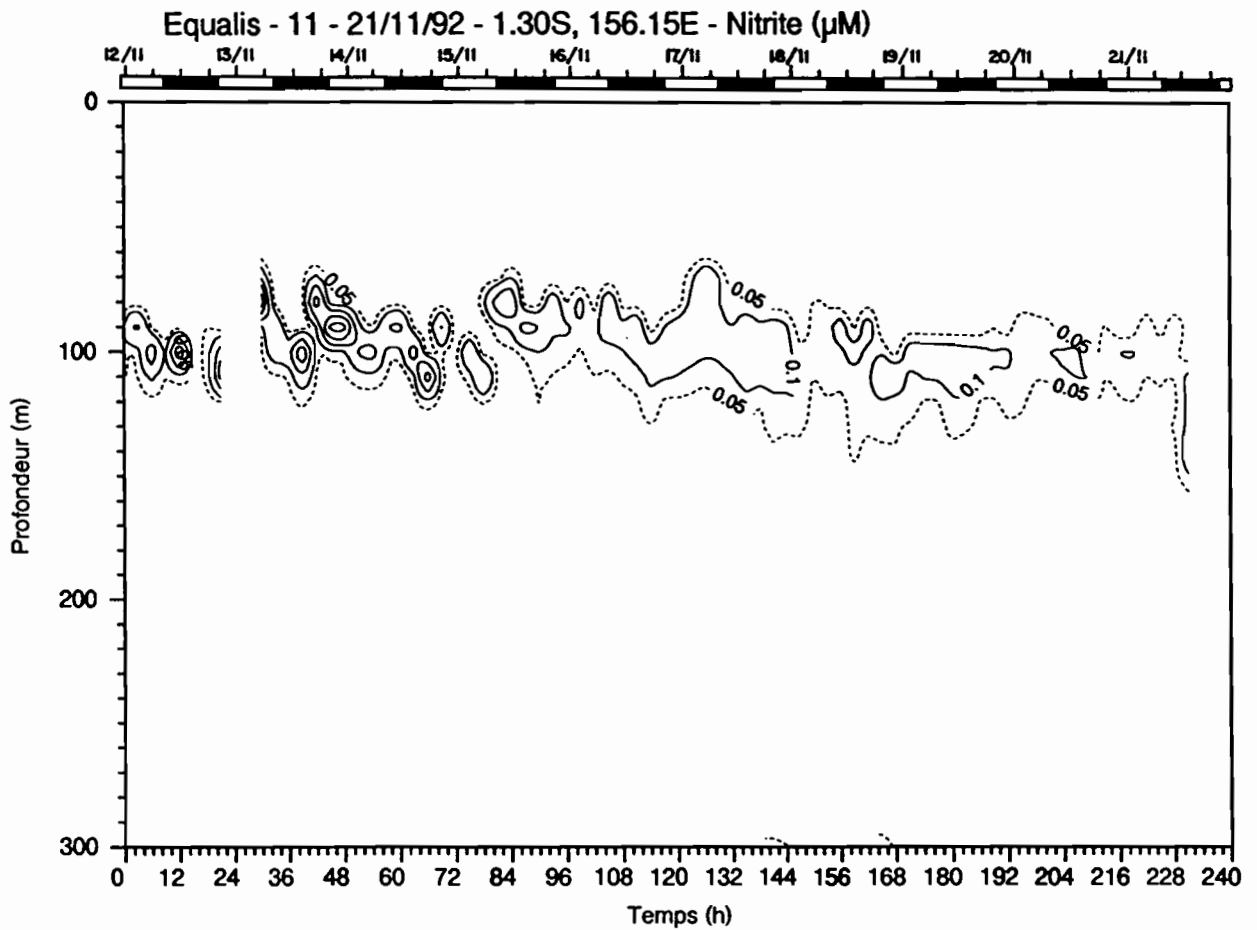
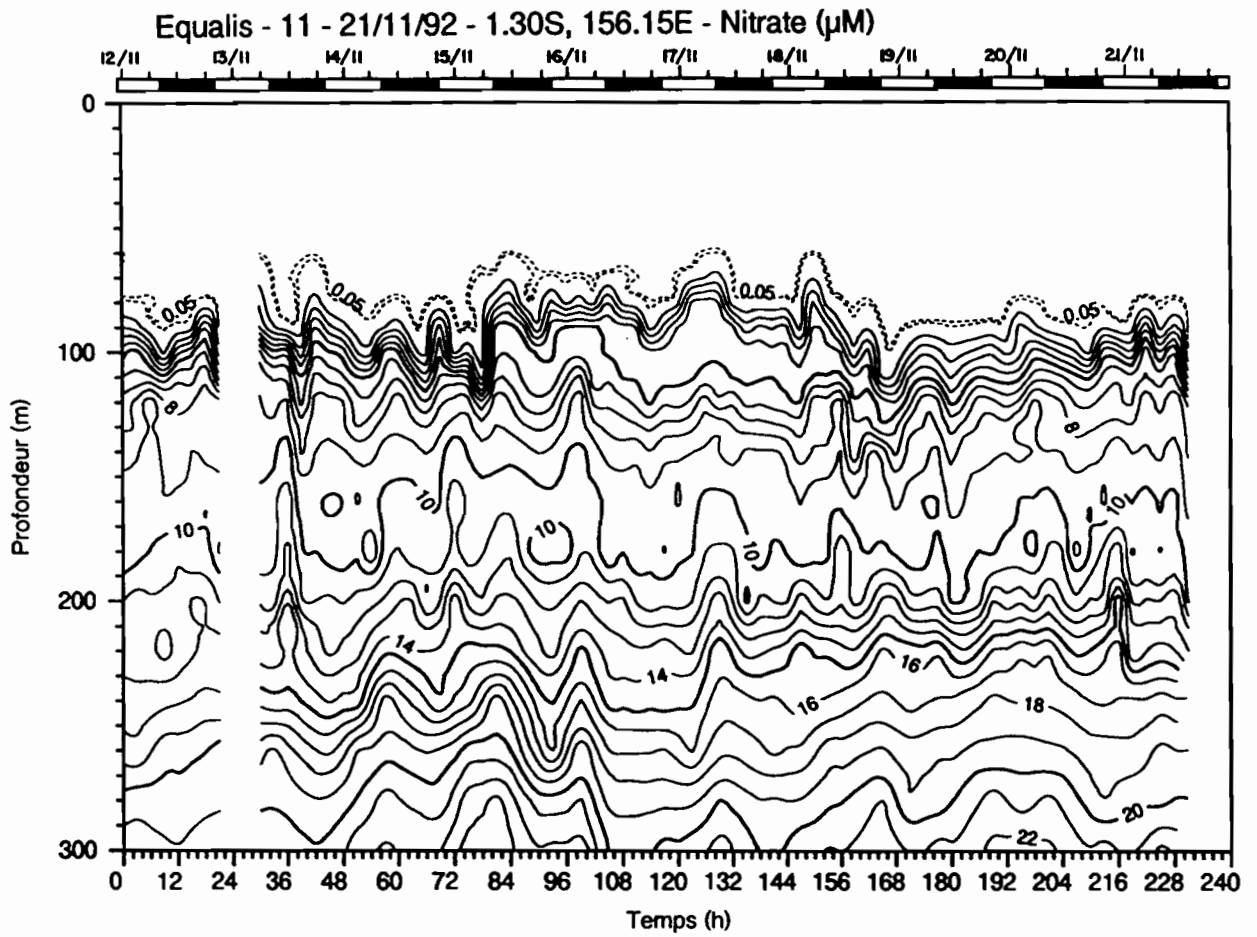
Equalis - 11-21/11/92 - 1.30S, 156.15E - ADCP - V (cm/s)

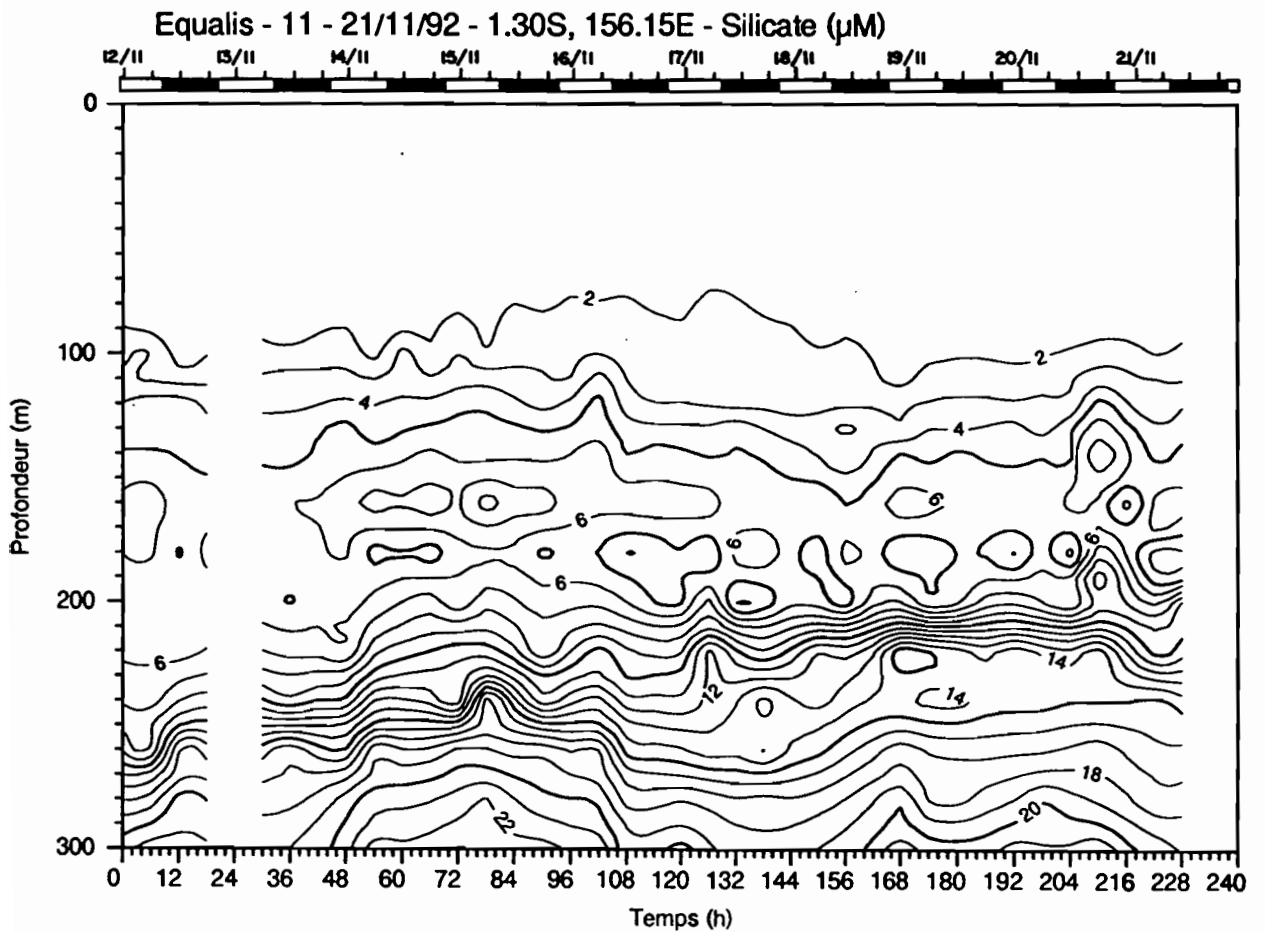
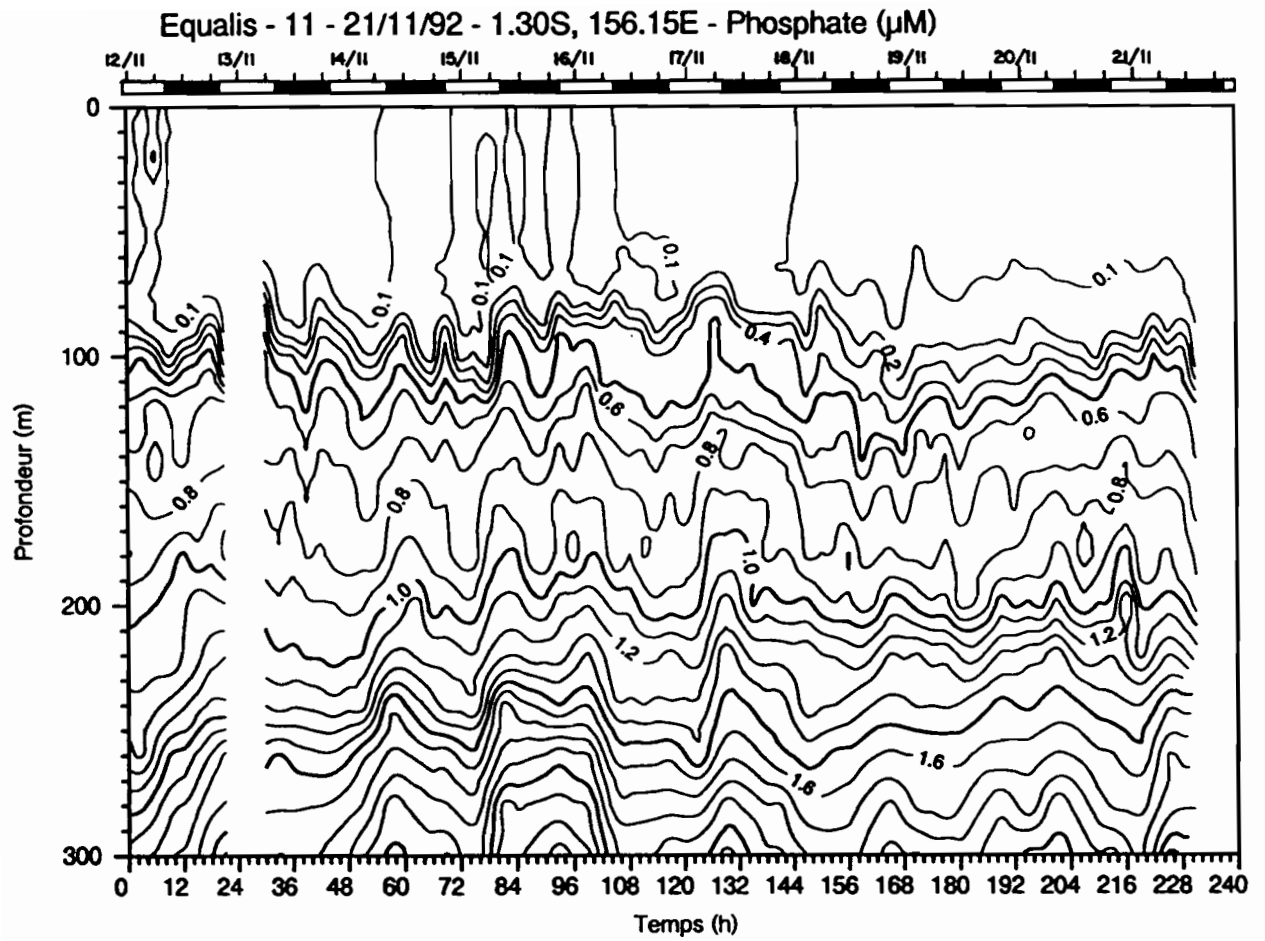


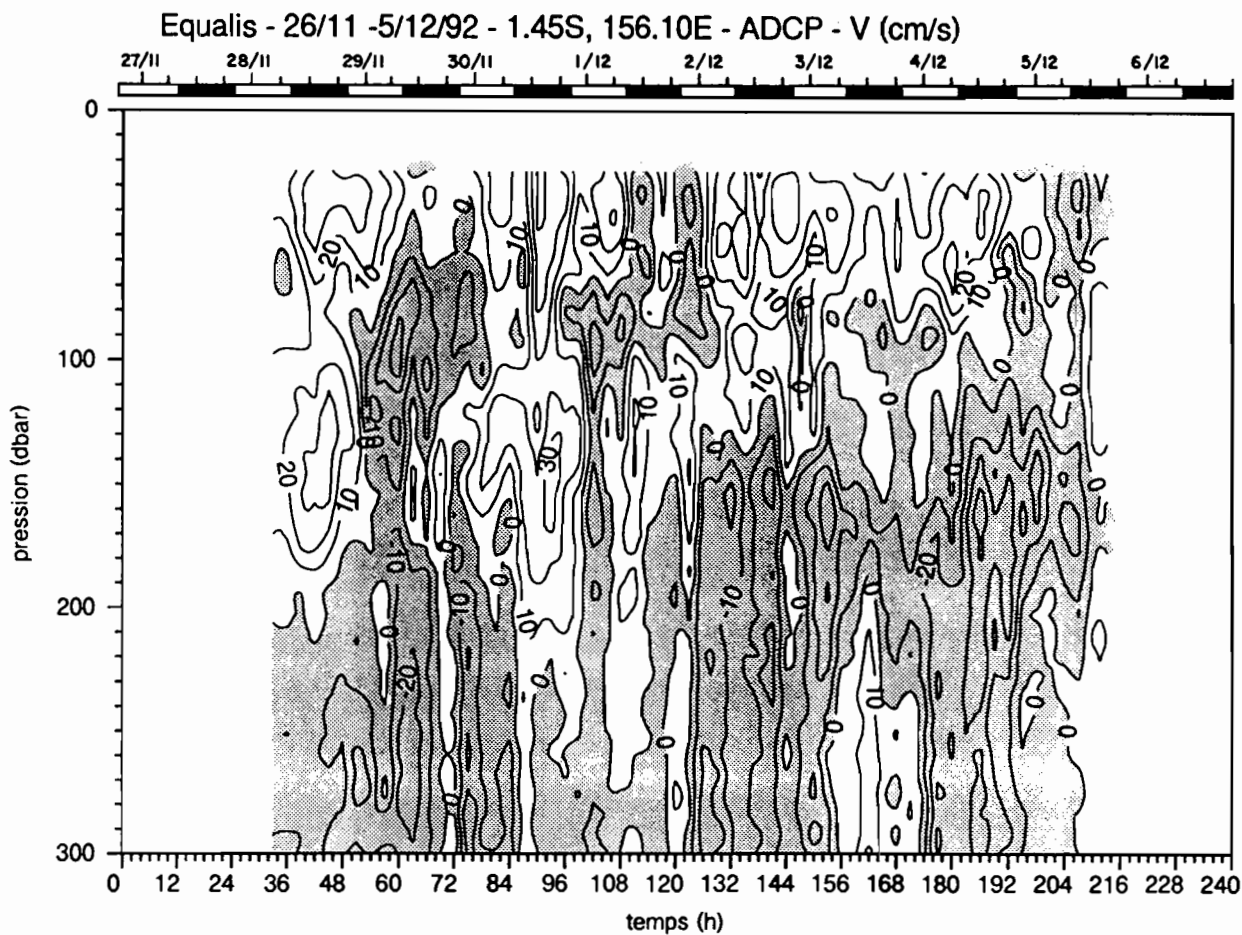
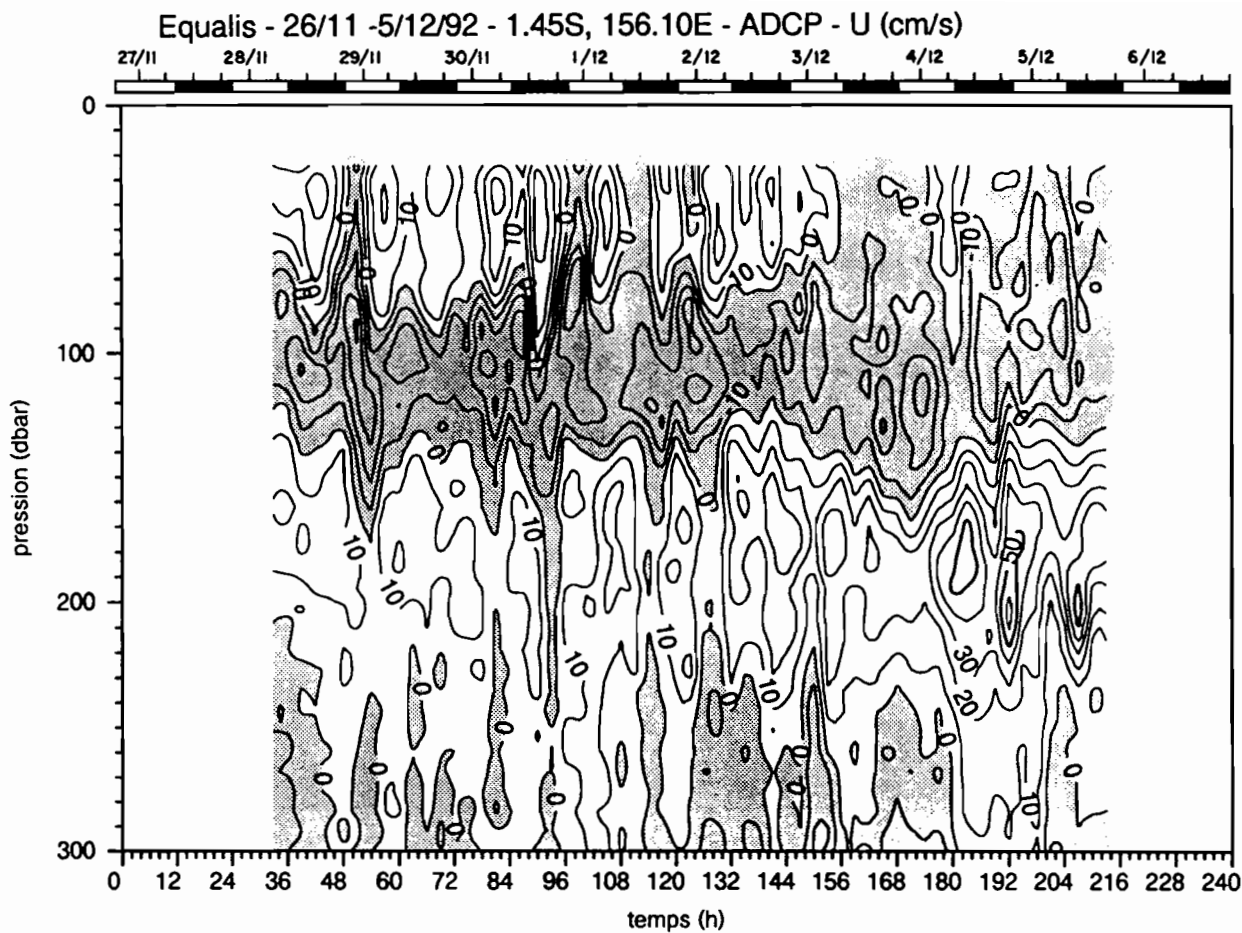


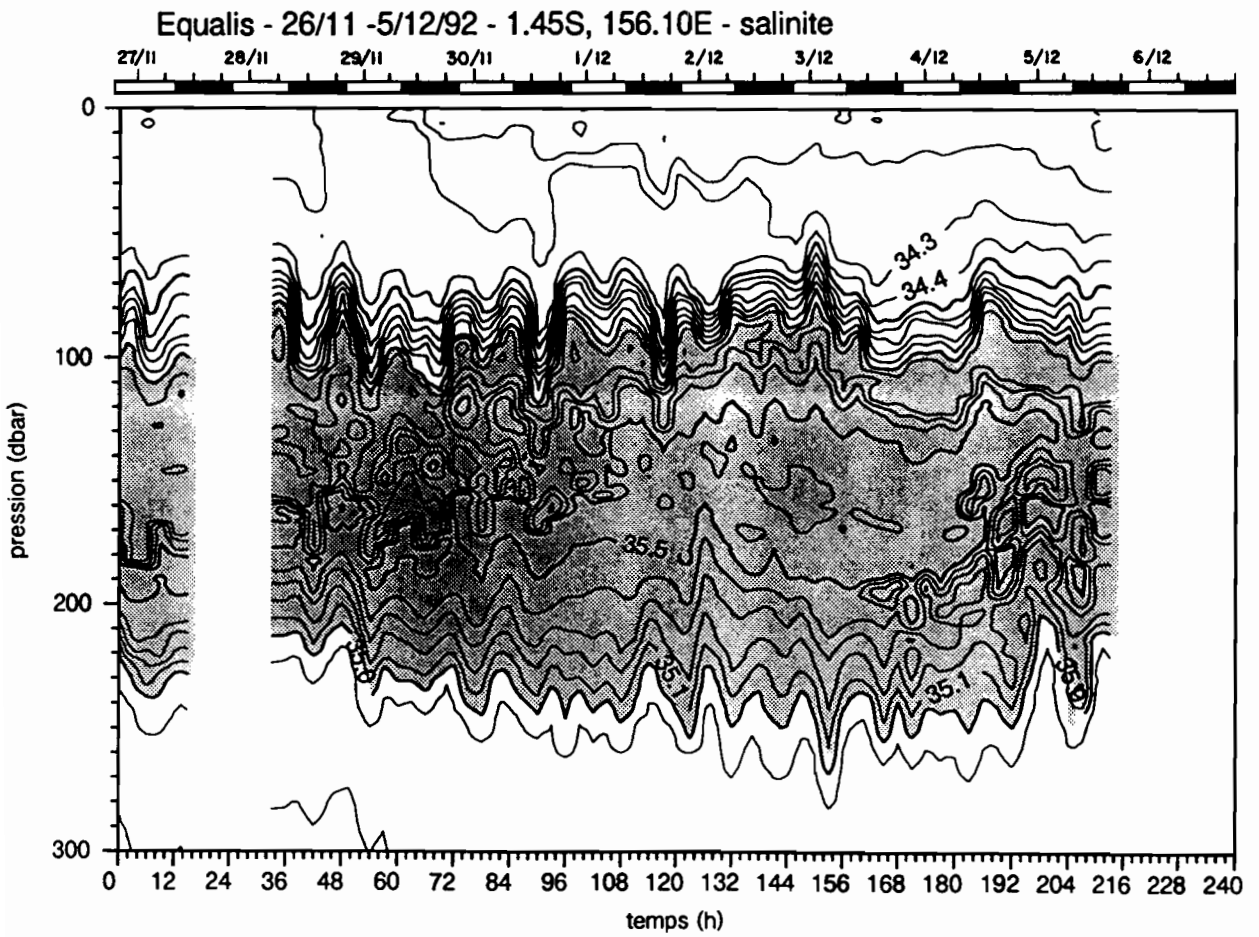
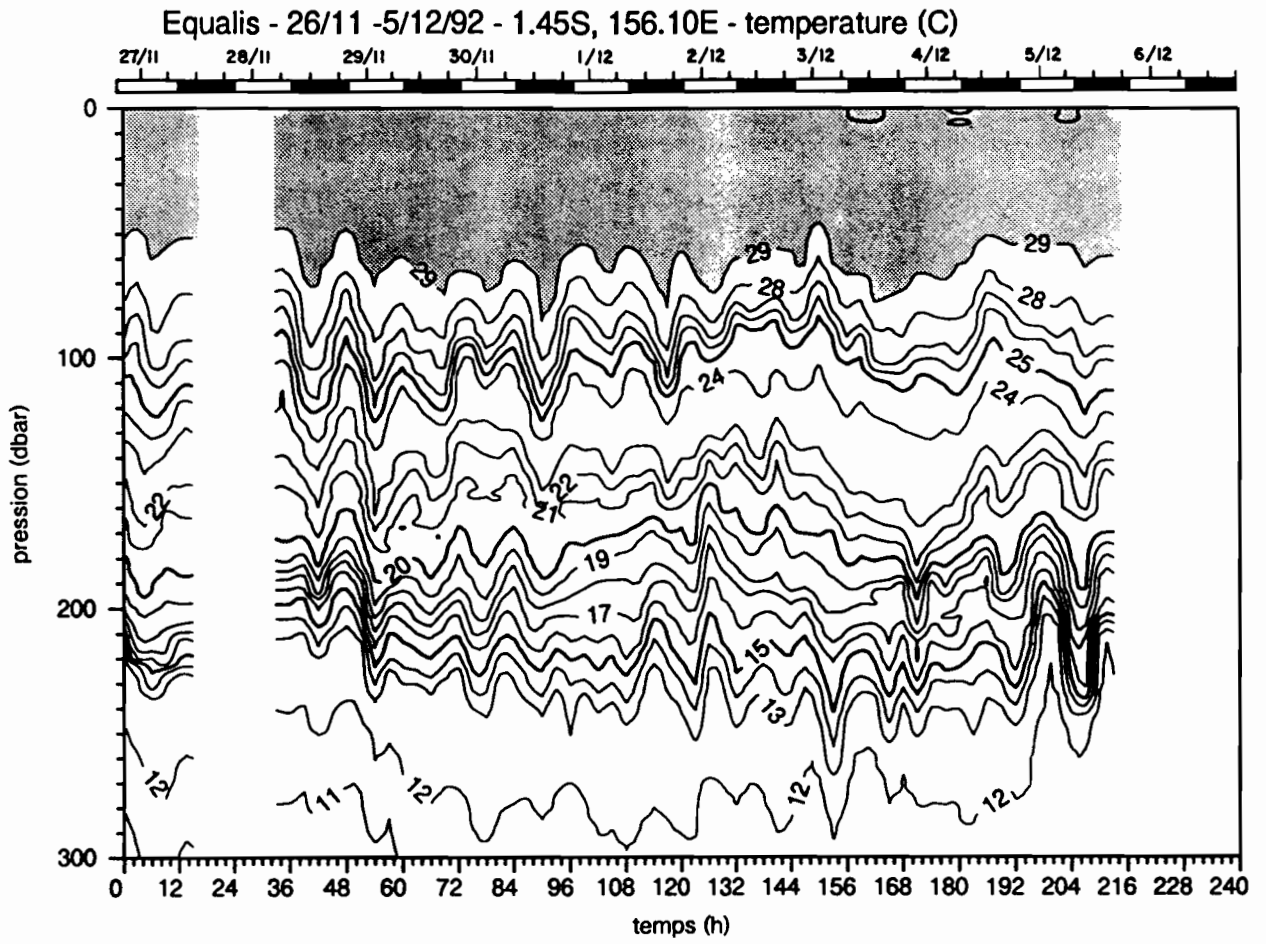


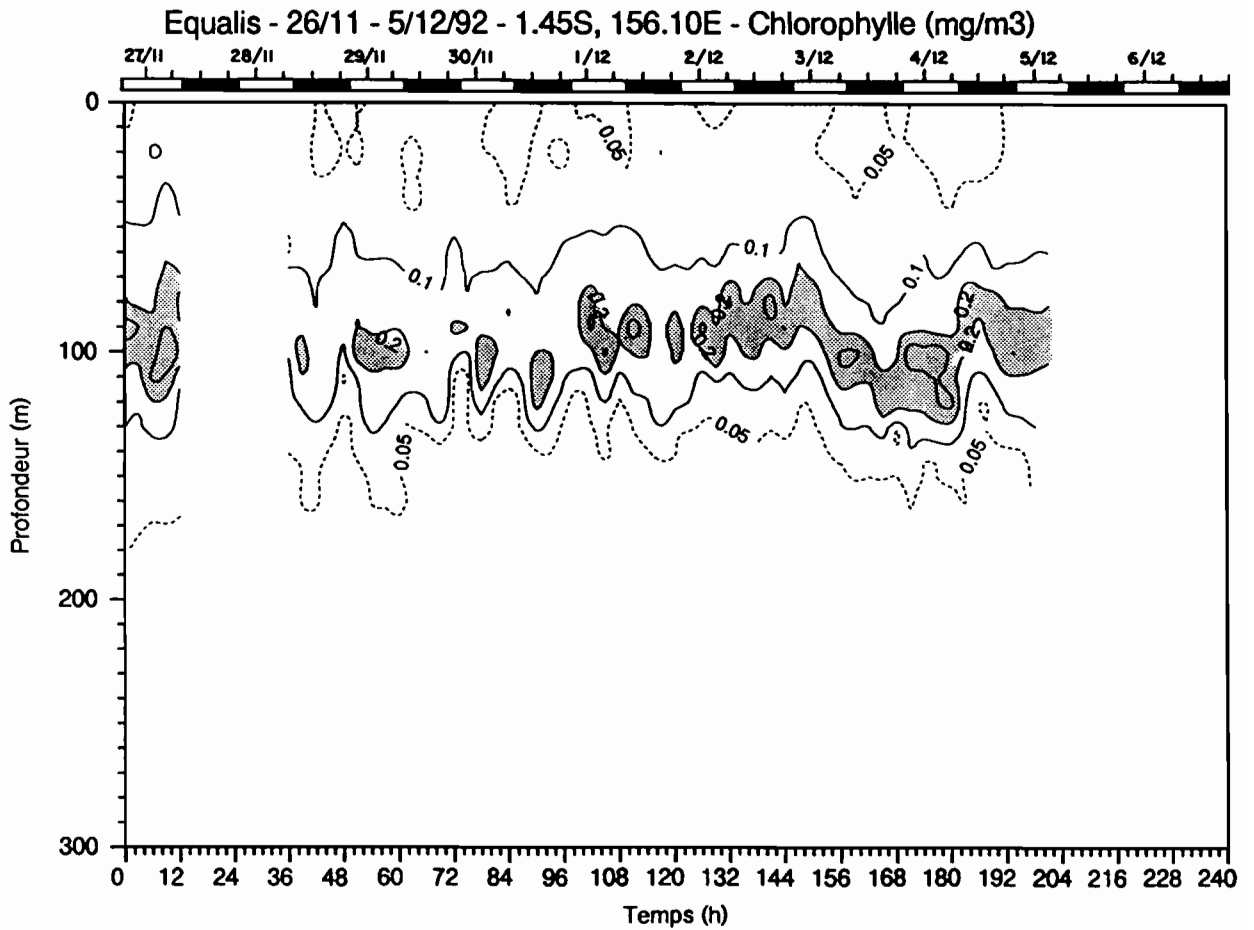
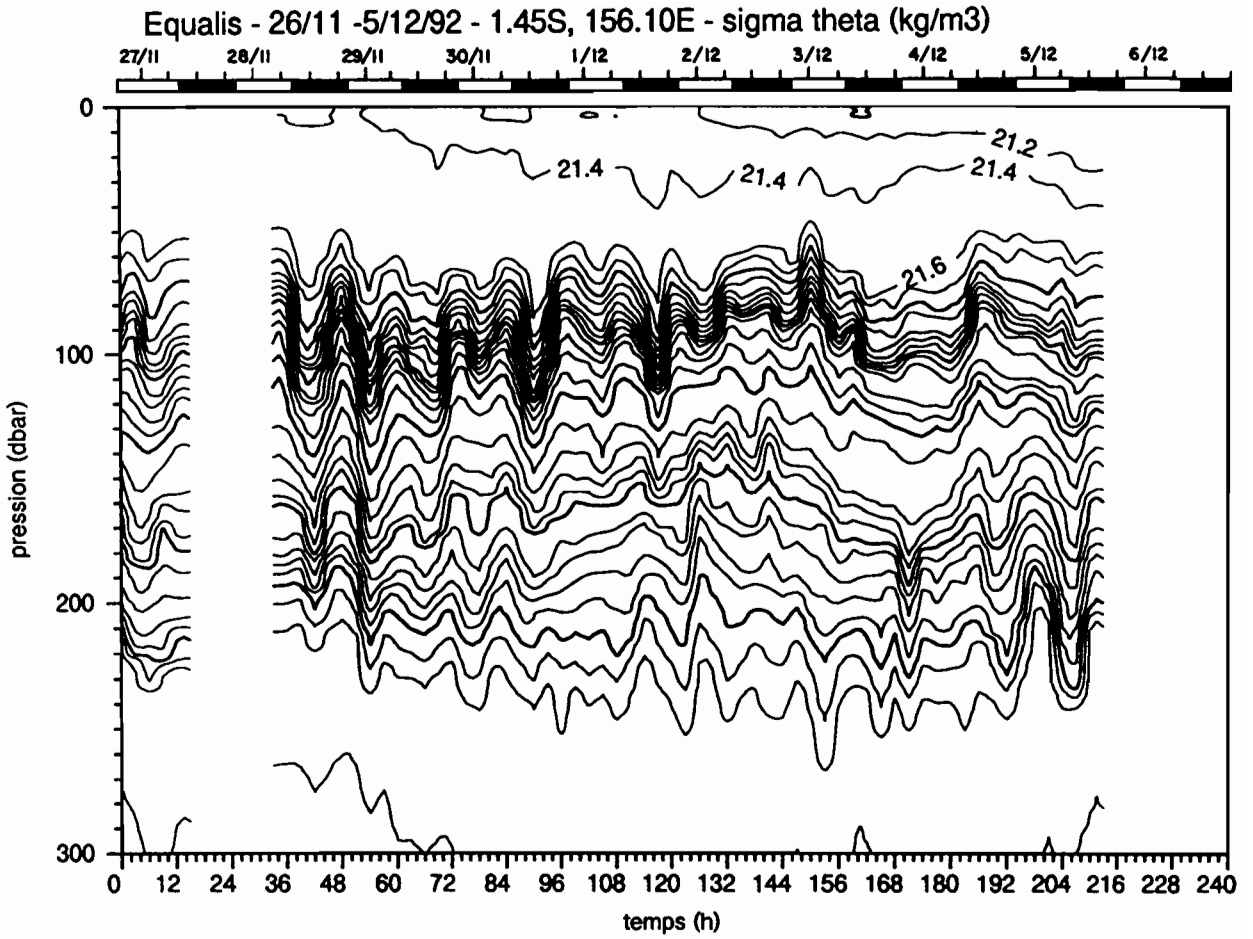


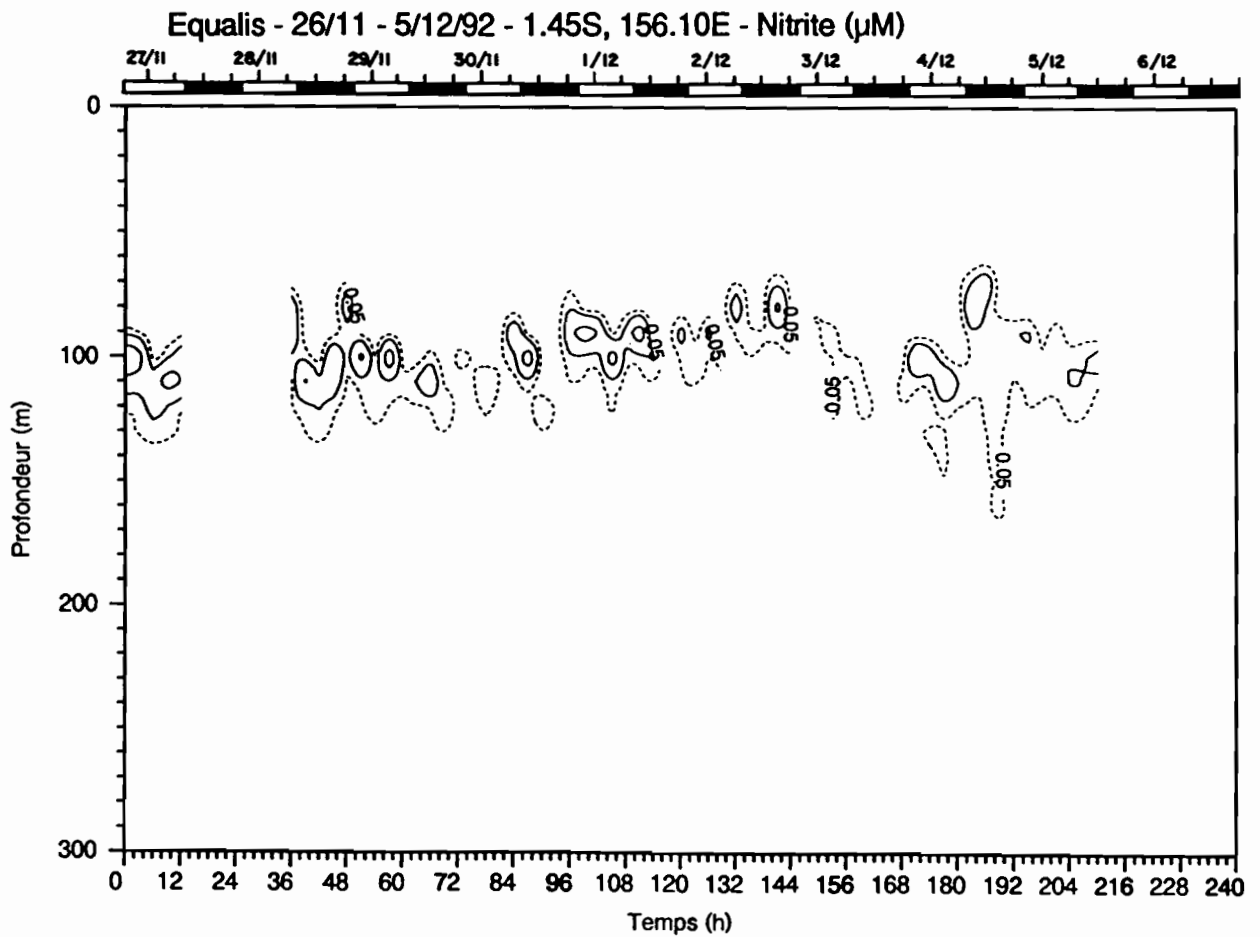
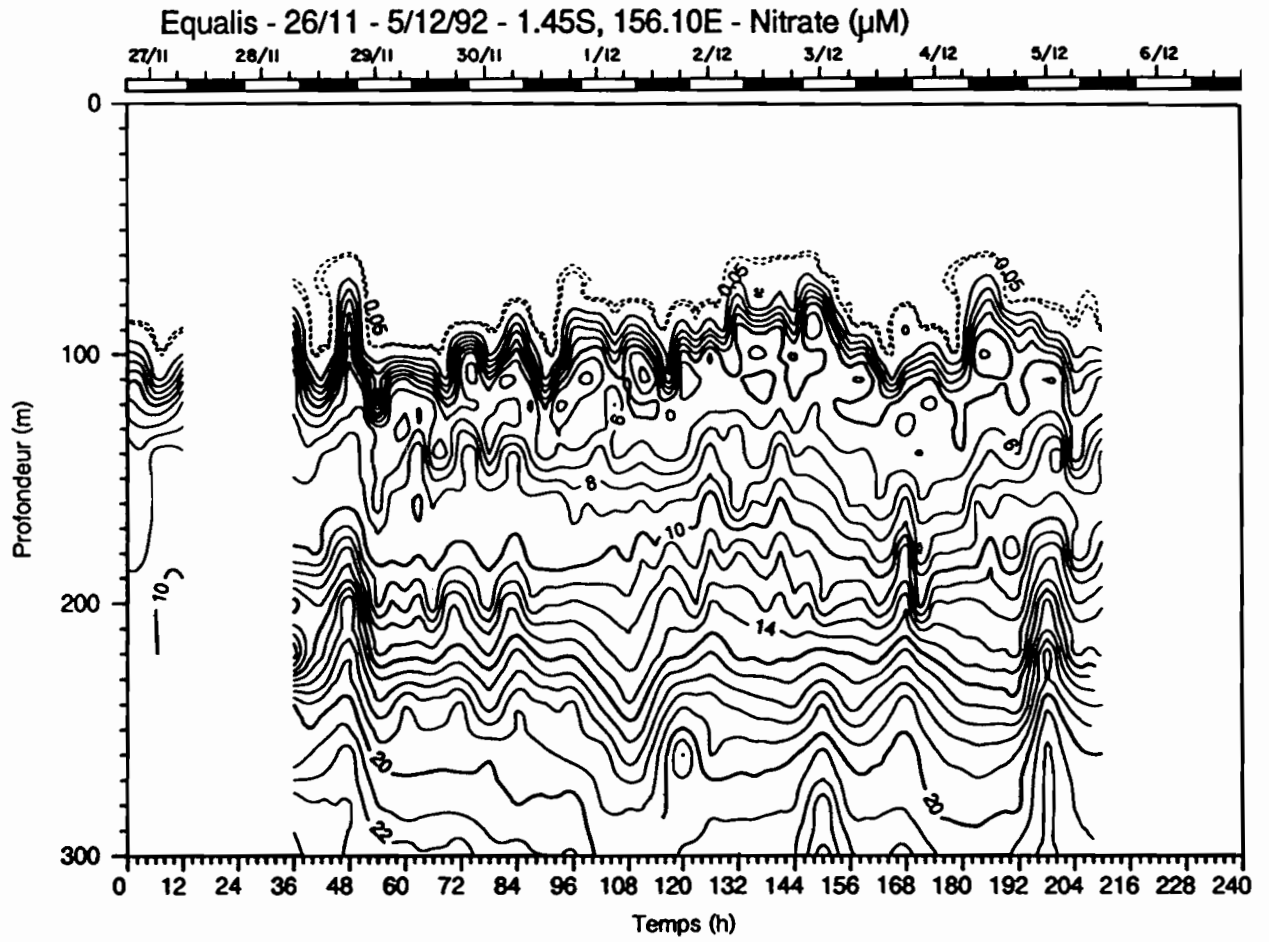


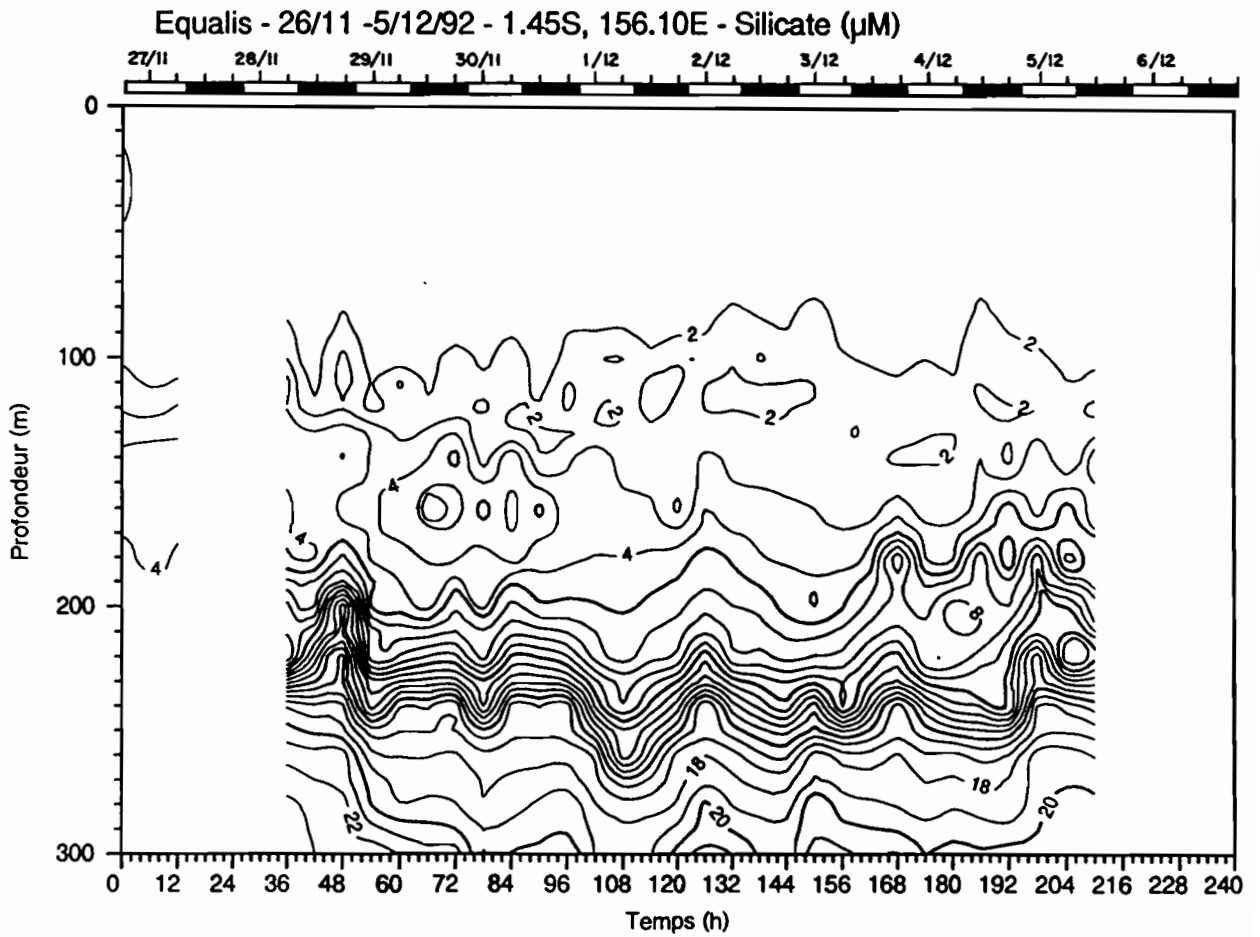
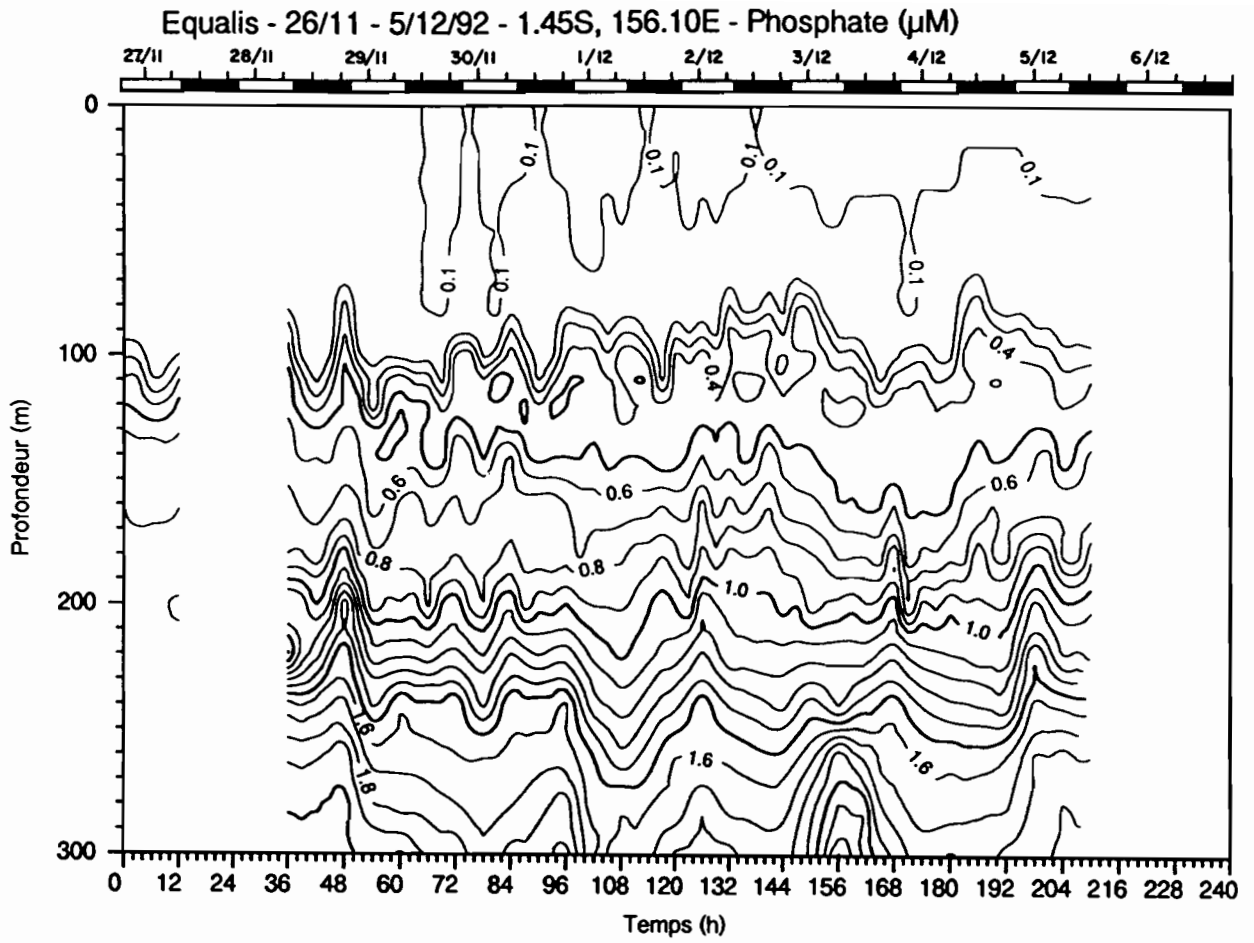












## ANNEXE 5

### Paramètres météorologiques et thermosalinomètre *Meteorological parameters and thermosalinograph data*

#### Points fixes et intercomparaison

- variation temporelle de la température de surface ( $^{\circ}\text{C}$ ), de la salinité de surface et de la quantité de pluie (mm)
- variation temporelle de la température de l'air sec ( $^{\circ}\text{C}$ ), de  $\Delta T$  ( $^{\circ}\text{C}$ ) et du rayonnement solaire incident ( $\text{W}\cdot\text{m}^{-2}$ )
- variation temporelle du module ( $\text{m}\cdot\text{s}^{-1}$ ; la ligne continue représente les valeurs calculées, les losanges blancs les observations faites par le bord) et de la direction (degré; les losanges noirs représentent les valeurs calculées, les losanges blancs les observations faites par le bord) du vent absolu.

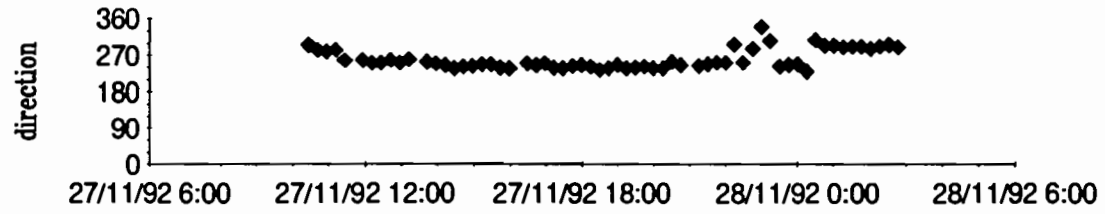
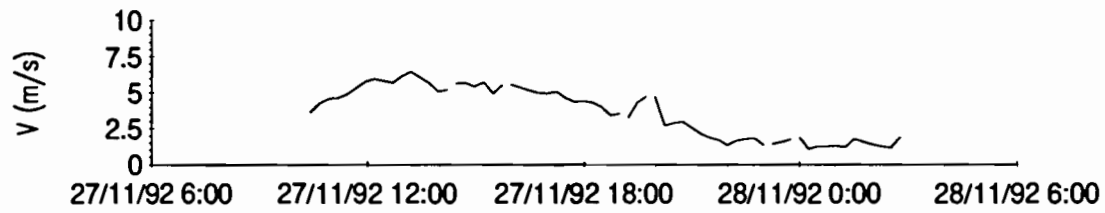
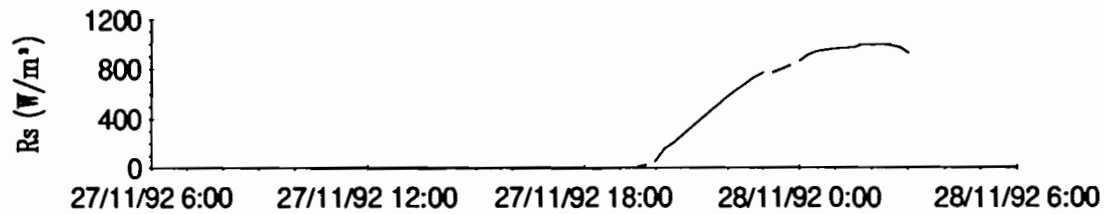
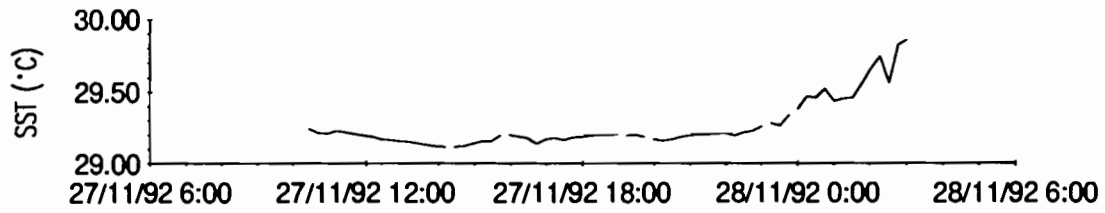
#### *Fixed stations and intercomparison*

- *time-series of sea surface temperature ( $^{\circ}\text{C}$ ), sea surface salinity, and rainfall (mm)*
- *time-series of dry air temperature ( $^{\circ}\text{C}$ ),  $\Delta T$  ( $^{\circ}\text{C}$ ), and incoming solar radiation ( $\text{W}\cdot\text{m}^{-2}$ )*
- *time-series of absolute wind speed ( $\text{m}\cdot\text{s}^{-1}$ ; the hard line represents the computed values and the white diamonds are the ship officers observations) and direction (degree; the black diamonds represent the computed values and the white diamonds are the ship officers observations)*

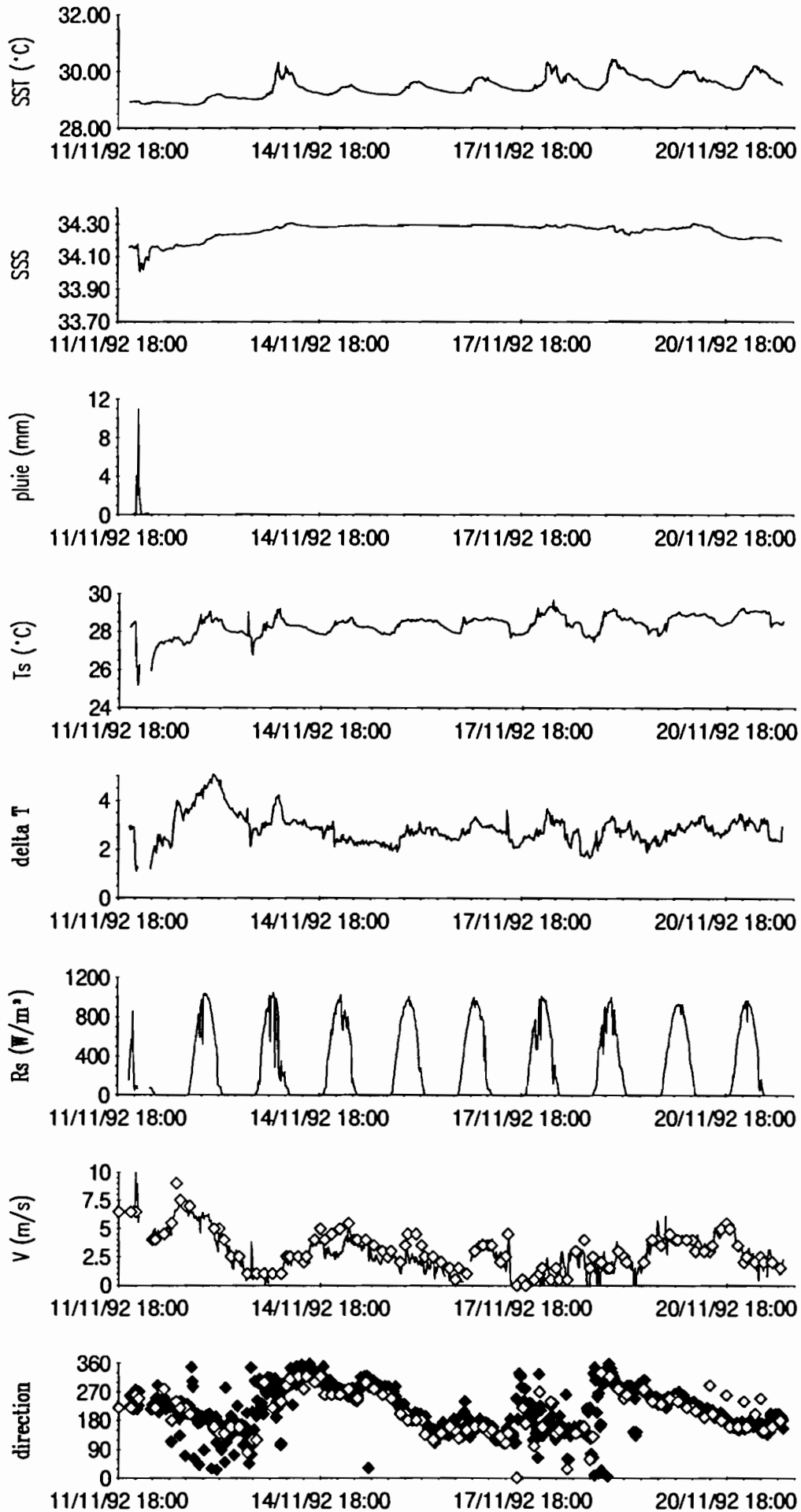




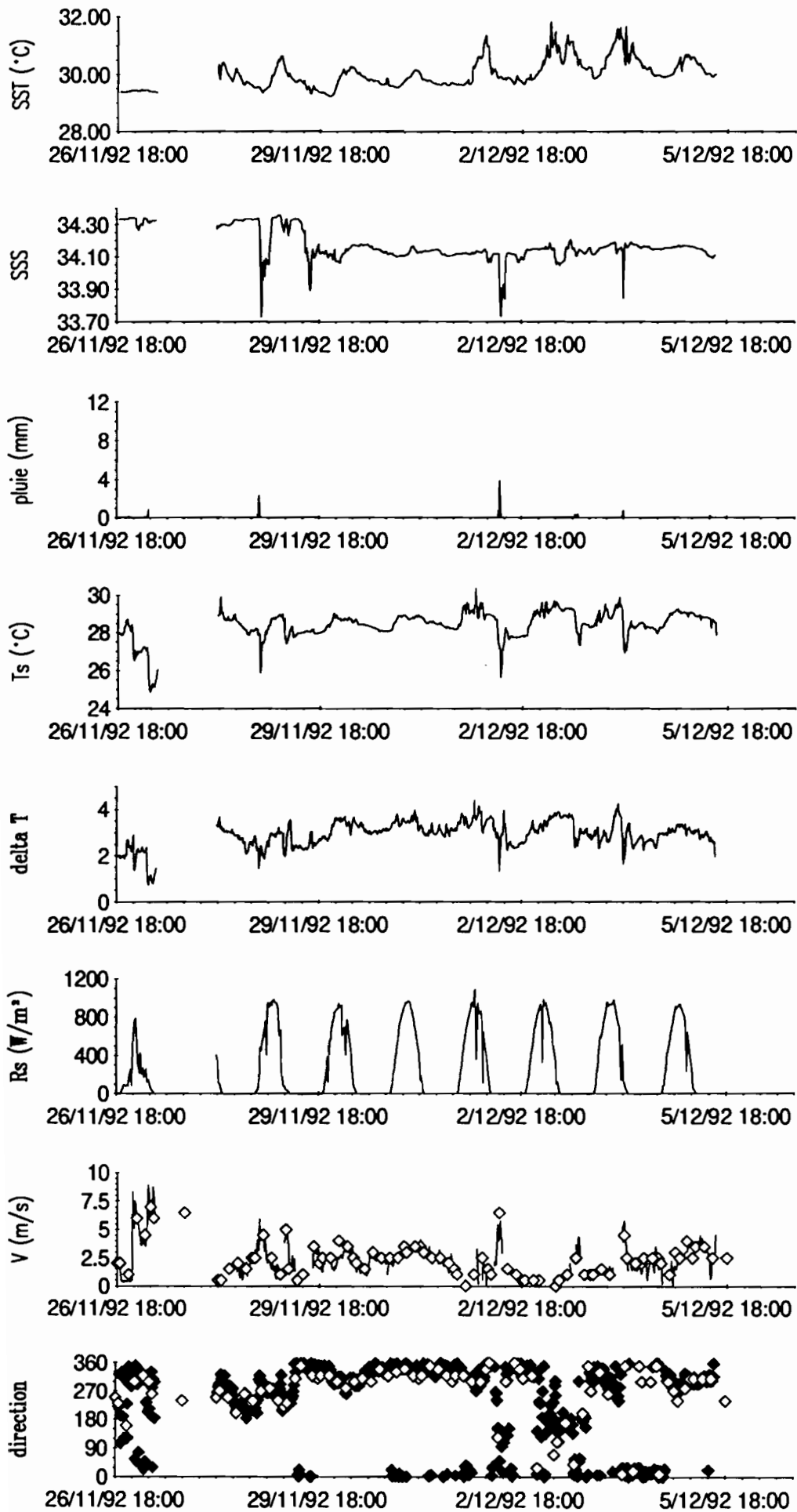
intercomparaison 27-28 novembre 1992



point fixe 1 1°30S,156°15E 27-28 novembre 1992



point fixe 2 1°45S,156°10E 27 novembre-5 décembre 1992





## **ANNEXE 6**

**Trajectoire des bouées dérivantes en novembre et décembre 1992**

*Drifting buoys trajectories during November and December 1992*



Novembre-Décembre 1992

