

INSTITUT FRANCAIS DE RECHERCHE SCIENTIFIQUE  
POUR LE DEVELOPPEMENT EN COOPERATION

ANTENNE DE BREST

PROGRAMME FOCAL

# **XBT – ATLANTIQUE**

1981 - 1982

LIGNE LE HAVRE – RIO DE JANEIRO  
( 20°N – 20°S )

par R. CHUCHLA , M. PRIVE , P. GALLIS , R. GERARD  
et F. JARRIGE

PROGRAMME FOCAL

dept. "Milieu Physique et Environnement Climatique"

UR "Océan Atmosphère"

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F. JARRIGE\*\*\*\*\*

Antenne ORSTOM de Brest.

Série Doc. Tech. ORSTOM n° 33 1986

- \* Antenne ORSTOM auprès du Centre IFREMER de Brest, B.P. 337 - 29273 BREST CEDEX
- \*\* Antenne ORSTOM du Havre, Quai des Abeilles, 76600 LE HAVRE.
- \*\*\* Centre ORSTOM de NOUMEA, B.P. A5, NOUMEA CEDEX, NOUVELLE CALEDONIE.
- \*\*\*\* Centre ORSTOM de PAPEETE, B.P. 529, PAPEETE, TAHITI.
- \*\*\*\*\* ORSTOM PARIS, 213 Rue La Fayette, 75480 PARIS CEDEX 10.

Dans ce document sont présentés pour chaque campagne les descriptifs de croisière, le tracé des positions des stations, la distribution verticale des températures ainsi que les profondeurs des isothermes.

Ces données thermiques sont obtenues à partir de lancements d'XBT (Expendable bathythermograph) effectués bénévolement par les officiers des navires marchands français de la Compagnie Générale Maritime (C.G.M.) sur le trajet Le Havre-Rio de Janeiro pendant la période 1981-1982 entre 20°N et 20°S.

### OBJECTIFS SCIENTIFIQUES

Ce programme d'observation thermique de surface par XBT-navires marchands a pour but l'étude de la variabilité saisonnière et interannuelle du contenu thermique (entre 0 et 500 m) et du flux thermique à travers des sections d'observations transéquatoriales.

Il est une des composantes principales du Programme FOCAL\* dont l'objectif général est d'observer et de comprendre les causes de la variabilité saisonnière et interannuelle des flux de masse et de chaleur transportés par le Système de circulation Equatoriale Atlantique.

### MATERIEL UTILISE

Le principe du programme est de réaliser des mesures à bord d'un navire faisant route à vitesse normale, le matériel étant utilisé par l'officier de quart sans aucun spécialiste à bord.

Le matériel de bord installé sur la passerelle du navire est d'une utilisation simple. La sonde est du type à tête perdue (Sippican modèle T4) : elle est lancée depuis l'aileron de passerelle à l'aide d'un lanceur à main (cf. figure 1). Un double fil de cuivre isolé qui se dévide par ses deux extensions, la relie à son étui pendant la descente jusqu'à 460 mètres. Le signal électrique analogique du capteur de température (thermistance) est numérisé par une interface dont la masse est reliée à celle de la sonde via la coque et la mer. Cette interface a été conçue par l'Université d'OREGON\*\* (OSU) et commercialisée par

\* FOCAL : Programme Français Océan Climat Atlantique Equatorial

\*\* OREGON STATE UNIVERSITY Tech. Planning and Development Group School of Oceanography CORVALLIS, OREGON 97331 - U.S.A. (MM. Rod MESECAR et Jim WAGNER).

la Société PROTECHNO\* sous le nom d'ETSM1. Le signal numérique est envoyé à l'entrée d'un Commodore CBM 4000 qui le traite, l'enregistre sur cassette et génère sur bathymessage à envoyer par l'officier Radio du bord au System Mondial de Télécommunication (SMT) de la Météorologie. Pour permettre le tracé de la courbe en temps réels sur l'écran de l'ordinateur et ainsi contrôler le fonctionnement de la sonde pendant la descente, la fréquence d'échantillonnage de la température est de deux mesures par seconde soit environ tous les trois mètres, alors que le matériel peut échantillonner 10 fois par seconde. La profondeur est connue par une courbe d'étalonnage standard de la vitesse de descente de la sonde, de même que la température est calculée à partir d'un étalonnage moyen des thermistances des sondes\*\*. La Précision absolue admise est de 0.2° C sur la température et de  $\pm 2/100$  sur la profondeur. Le bruit de fond de la mesure ajouté à celui du milieu marin est de l'ordre de 5/100° C.

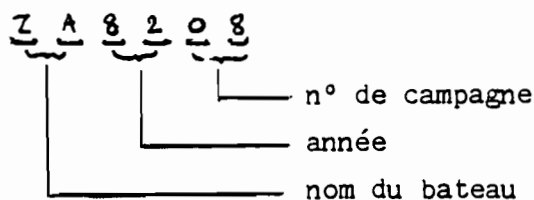
#### TRAITEMENT DES PROFILS XBT

En fin de croisière les cassettes sont récupérées à l'antenne ORSTOM du Havre où s'effectue la validation des profils enregistrés.

L'archivage de ces enregistrements et les divers traitements scientifiques sont effectués à l'Atelier Informatique de l'Antenne ORSTOM auprès du Centre IFREMER de Brest.

#### INDICATIONS SUR LES TERMES UTILISES DANS CE DOCUMENT

- Les noms de campagnes sont codés sur 6 caractères.



ZA : pour Zambèze

ZE : pour Zeebrugge

ZL : pour Zelande

Exemple : ZA8208 : huitième campagne effectuée pour le Zambèze en 1982.

\* PROTECNO, Rue Vincent Labbé - 29200 BREST. FRANCE-

\*\* L'appareil est étalonné automatiquement avant chaque lancer de sonde, il n'y a donc pas de dérive due au matériel de bord.

- l'heure est exprimée en temps universel (TU)
- les positions indiquées par l'officier de quart sont en degré, minute.
- la profondeur des isothermes a été interpolée linéairement entre les deux valeurs les plus proches (distantes de 3 mètres environ)
- chaque campagne comprend les mesures réalisées à l'aller et au retour du navire.
- Pour l'en-tête croisière les codes paramètres 1 et 3 représentent respectivement la profondeur et la température.

### REMERCIEMENTS

Nous remercions vivement les officiers des navires marchands qui effectuent bénévolement et sans relâche tous ces relevés nous permettant ainsi d'atteindre nos objectifs ; mieux connaître la mer et son influence sur les anomalies climatiques.

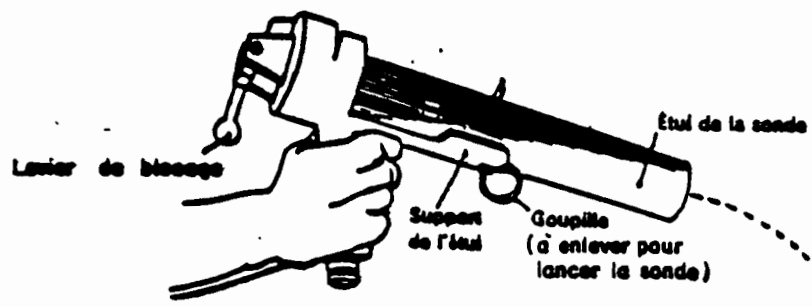
Nous remercions aussi la Compagnie Générale Maritime d'avoir accepté nos appareils à bord de ses navires et d'avoir permis à ses officiers de nous aider dans une tâche qu'eux seuls pouvaient accomplir et que nous n'aurions pu réaliser sans leur concours et leur bonne volonté.

Nous remercions enfin Mademoiselle Véronique PETTON, pour son travail méticuleux concernant l'ordonnancement de ce document, et le Département Informatique de l'IFREMER (Centre de Brest) dont nous avons utilisé les calculateurs.

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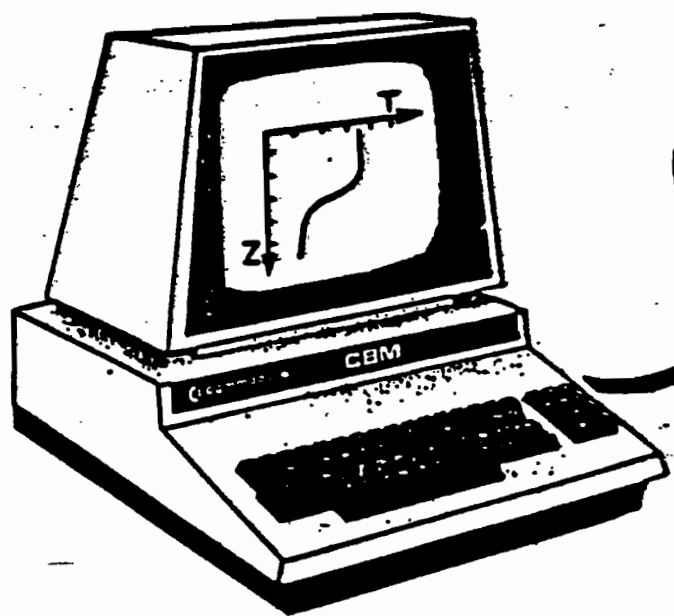
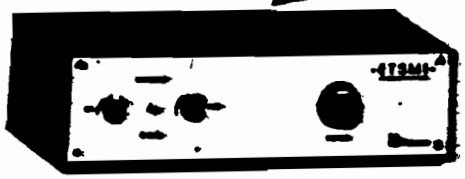
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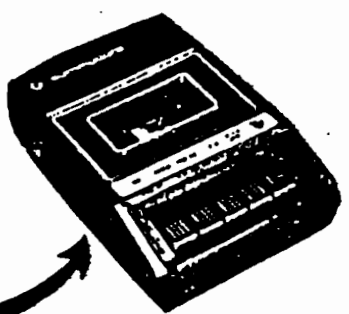


Lanceur

Interface ETSM1



Magnétophone à cassette

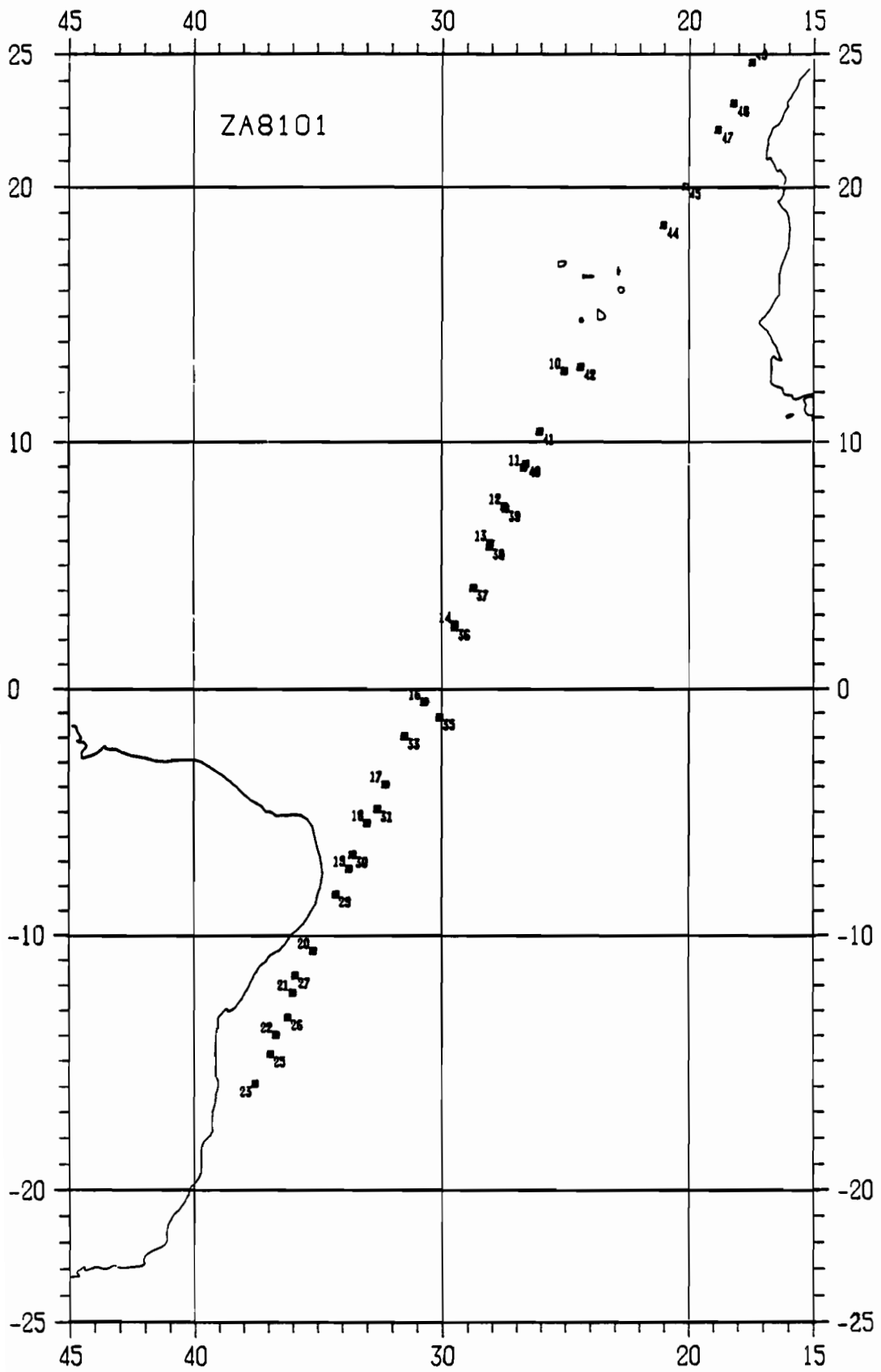


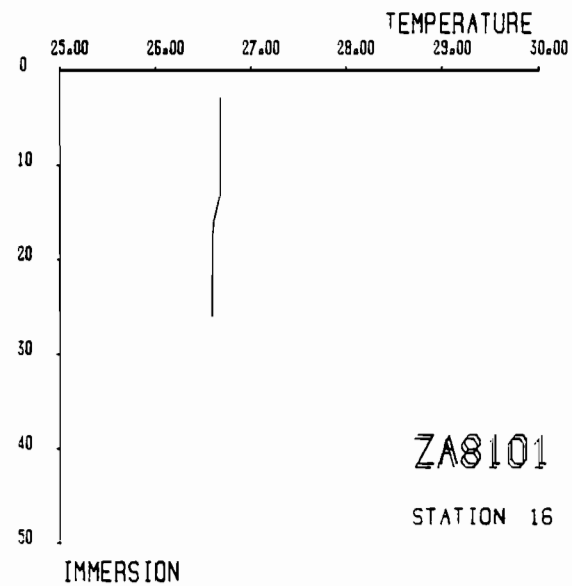
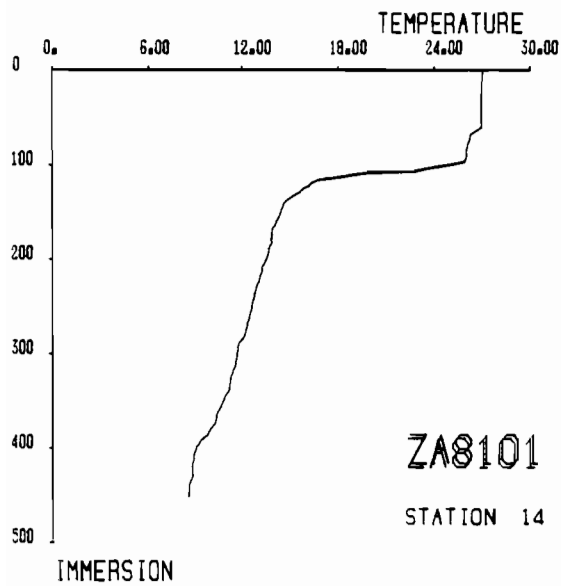
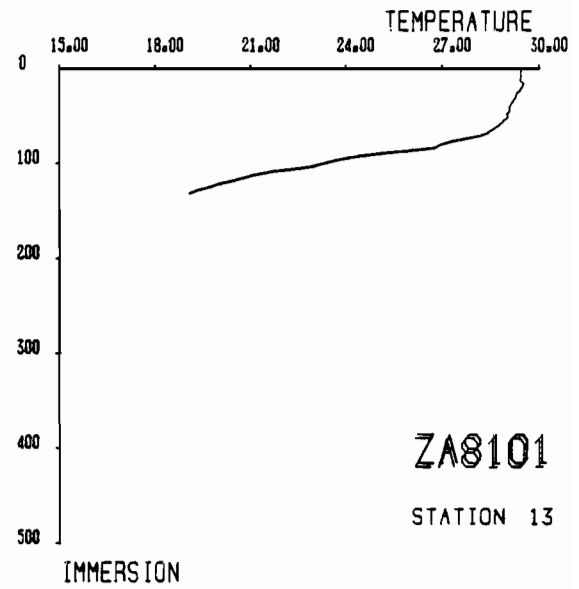
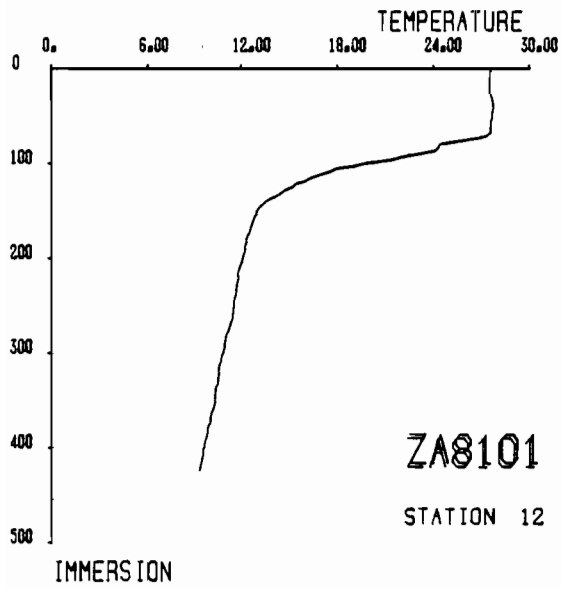
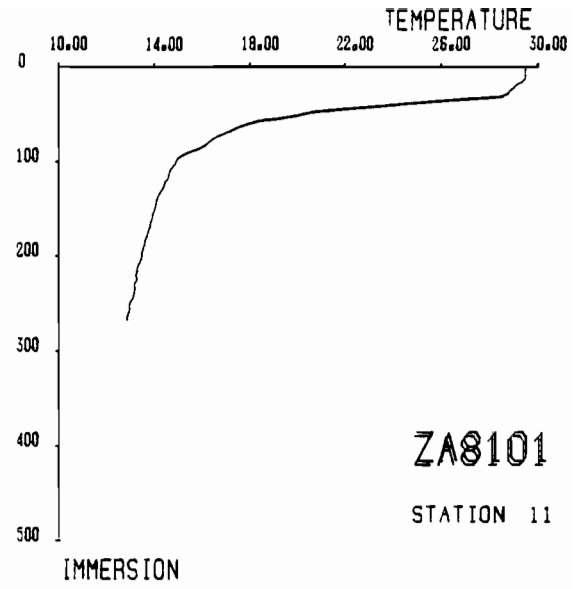
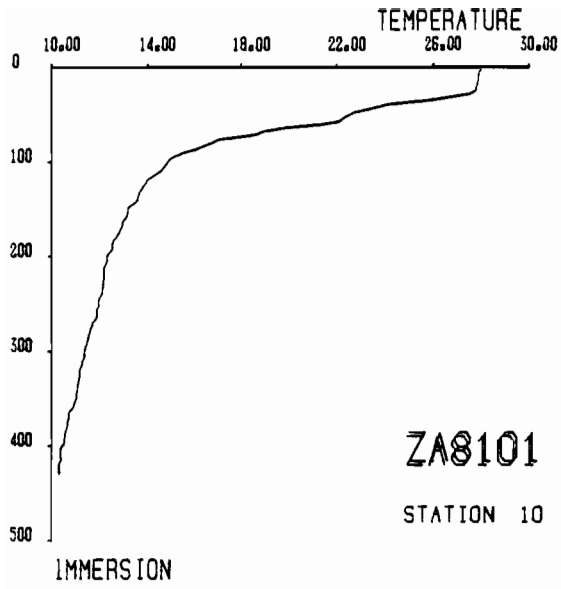
ACQUISITION D'UN PROFIL X B T

FIGURE 1









## STATION 10

0/ 9/81 16H 5 Z  
 LAT 12 50'N  
 LONG 25 3'W  
 T 3M : 28.0 C  
 T430M : 10.3 C

## STATION 11

9/ 9/81 6H 0 Z  
 LAT 8 57'N  
 LONG 26 42'W  
 T 3M : 29.5 C  
 T268M : 12.9 C

## STATION 12

9/ 9/81 11H30 Z  
 LAT 7 24'N  
 LONG 27 30'W  
 T 3M : 27.6 C  
 T424M : 9.3 C

-----

TEMP PROF

28 3  
 27 30  
 26 34  
 25 36  
 24 40  
 23 46  
 22 58  
 21 61  
 20 63  
 19 67  
 18 74  
 17 77  
 16 87  
 15 96  
 14 118  
 13 161  
 12 245  
 11 353

TEMP PROF

29 21  
 28 32  
 27 34  
 26 36  
 25 38  
 24 40  
 23 43  
 22 45  
 21 47  
 20 51  
 19 55  
 18 60  
 17 69  
 16 84  
 15 97  
 14 151  
 13 248

TEMP PROF

27 72  
 26 75  
 25 78  
 24 87  
 23 90  
 22 93  
 21 97  
 20 99  
 19 103  
 18 105  
 17 111  
 16 118  
 15 126  
 14 135  
 13 148  
 12 204  
 11 285  
 10 374

## STATION 13

9/ 9/81 18H 0 Z  
 LAT 5 54'N  
 LONG 28 5'W  
 T 3M : 29.4 C  
 T132M : 19.1 C

## STATION 14

10/ 9/81 6H 0 Z  
 LAT 2 36'N  
 LONG 29 30'W  
 T 3M : 27.0 C  
 T452M : 8.5 C

## STATION 16

10/ 9/81 18H 0 Z  
 LAT 0 32'S  
 LONG 30 42'W  
 T 3M : 26.7 C  
 T 26M : 26.6 C

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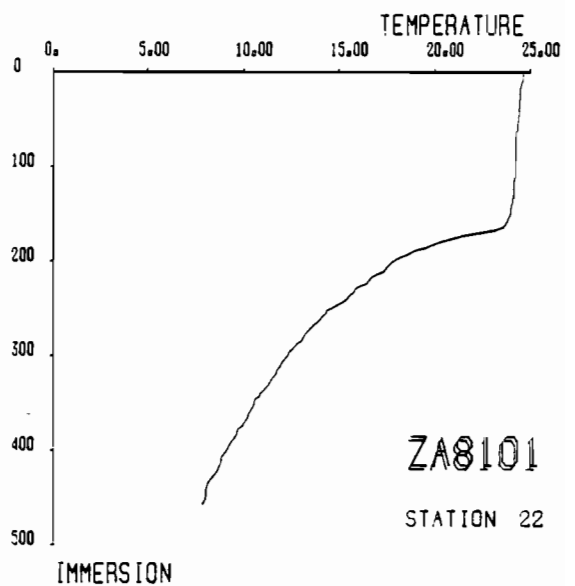
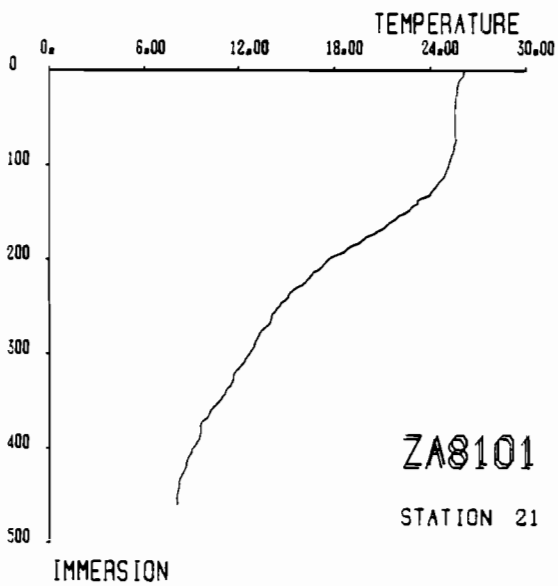
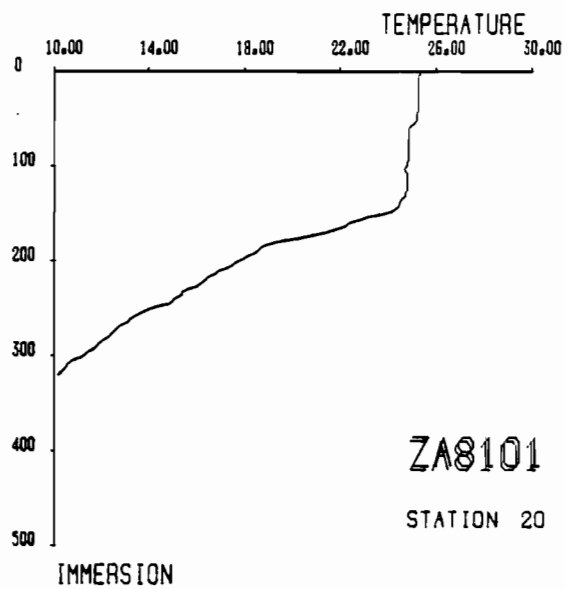
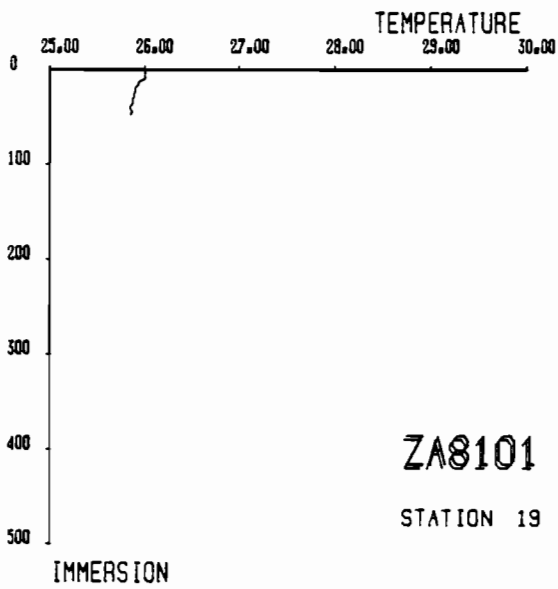
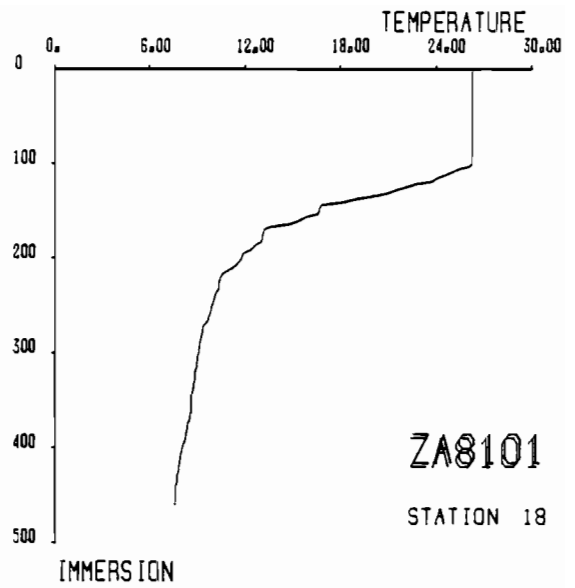
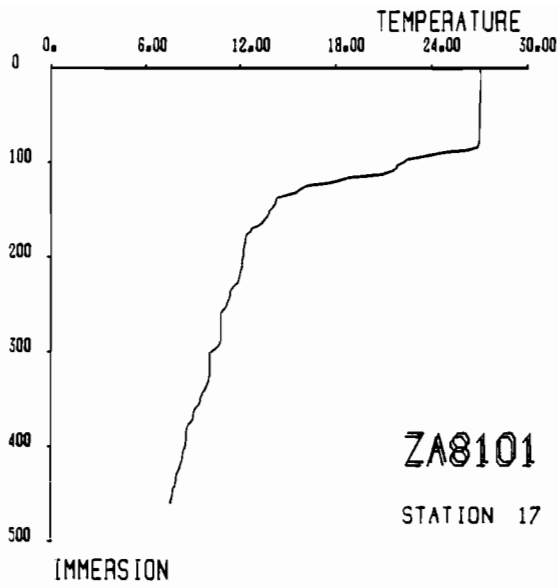
TEMP PROF

29 48  
 28 72  
 27 79  
 26 86  
 25 90  
 24 95  
 23 102  
 22 107  
 21 113  
 20 121

TEMP PROF

27 18  
 26 93  
 25 99  
 24 102  
 23 105  
 22 106  
 21 107  
 20 108  
 19 110  
 18 113  
 17 115  
 16 123  
 15 134  
 14 164  
 13 224  
 12 284  
 11 343  
 10 379  
 9 402

TEMP PROF



## STATION 17

11/ 9/81 6H 0 Z  
 LAT 3 53'S  
 LONG 32 16'W  
 T 3M : 27.1 C  
 T461M : 7.6 C

## STATION 18

11/ 9/81 12H 0 Z  
 LAT 5 28'S  
 LONG 33 0'W  
 T 3M : 26.3 C  
 T461M : 7.6 C

## STATION 19

11/ 9/81 18H 0 Z  
 LAT 7 17'S  
 LONG 33 44'W  
 T 3M : 26.0 C  
 T 49M : 25.8 C

-----  
 TEMP PROF

27 56  
 26 87  
 25 89  
 24 92  
 23 95  
 22 101  
 21 112  
 20 114  
 19 115  
 18 120  
 17 123  
 16 125  
 15 133  
 14 146  
 13 167  
 12 216  
 11 254  
 10 331  
 9 371  
 8 427

-----  
 TEMP PROF

26 103  
 25 109  
 24 115  
 23 121  
 22 125  
 21 130  
 20 134  
 19 137  
 18 141  
 17 143  
 16 156  
 15 162  
 14 165  
 13 181  
 12 194  
 11 212  
 10 244  
 9 302  
 8 405

-----  
 TEMP PROF

26 3

## STATION 20

12/ 9/81 6H 0 Z  
 LAT 10 37'S  
 LONG 35 11'W  
 T 3M : 25.3 C  
 T321M : 10.2 C

## STATION 21

12/ 9/81 12H 0 Z  
 LAT 12 18'S  
 LONG 36 0'W  
 T 3M : 26.1 C  
 T461M : 8.1 C

## STATION 22

12/ 9/81 18H 0 Z  
 LAT 13 58'S  
 LONG 36 41'W  
 T 3M : 24.6 C  
 T458M : 7.8 C

-----  
 TEMP PROF

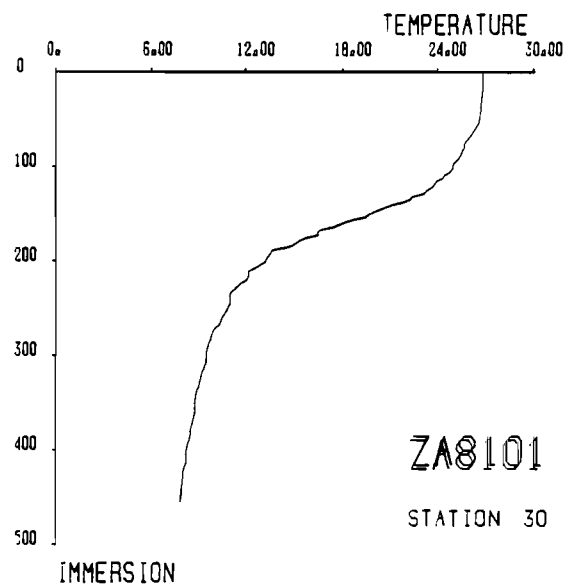
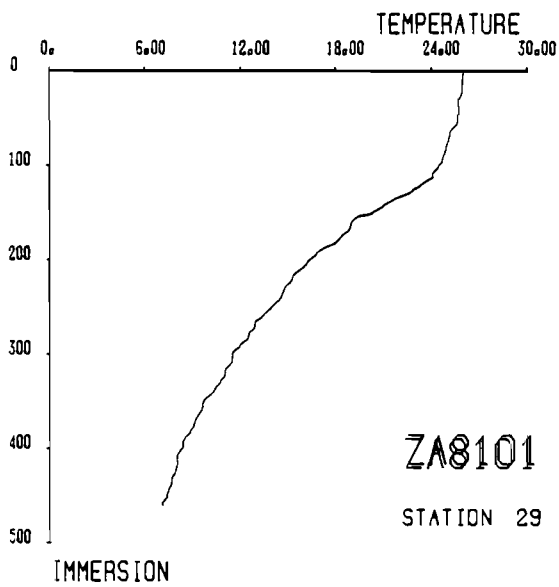
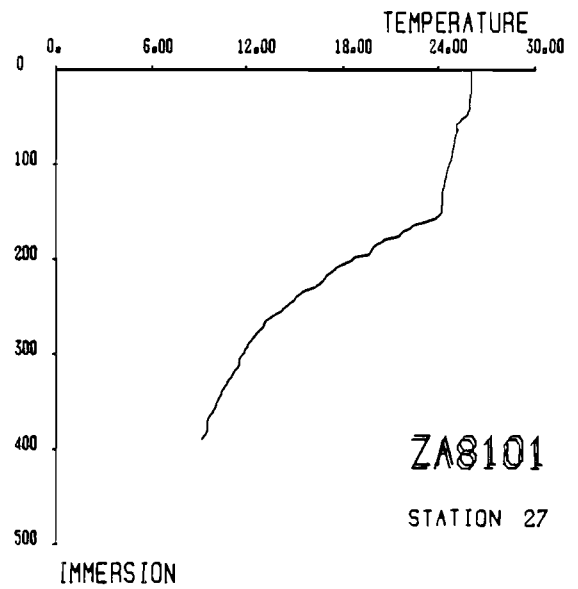
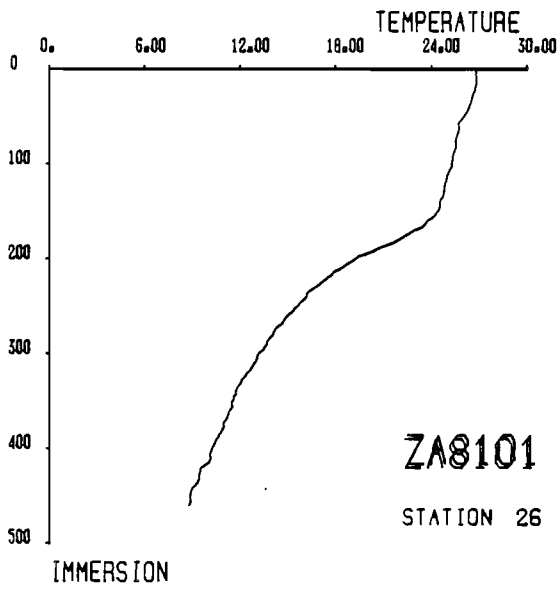
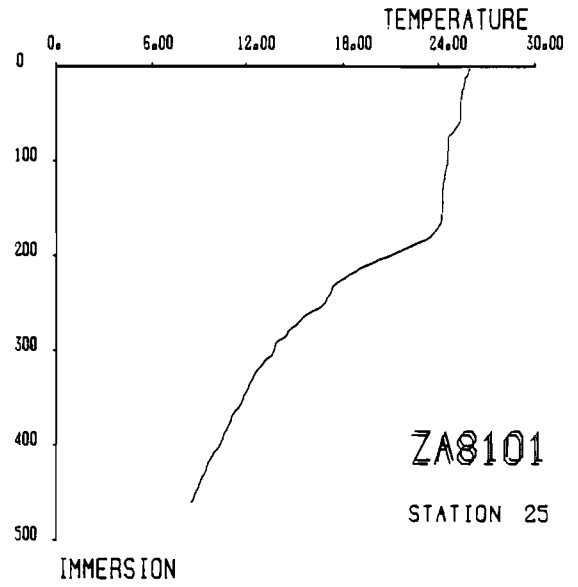
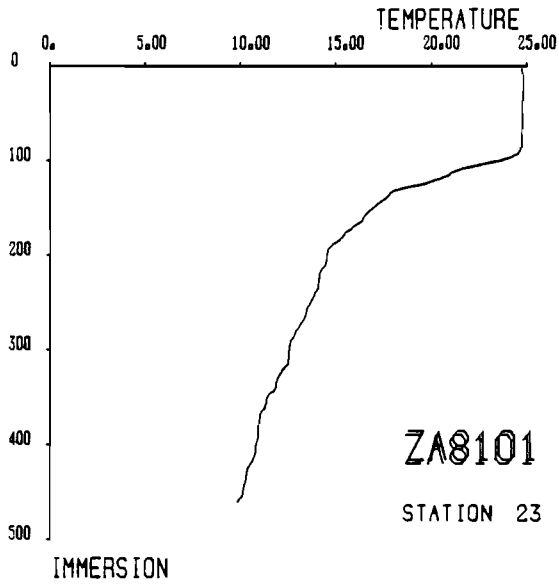
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 22 165  
 21 172  
 20 177  
 19 182  
 18 196  
 17 209  
 16 226  
 15 242  
 14 251  
 13 266  
 12 285  
 11 303

-----  
 TEMP PROF

26 7  
 25 107  
 24 129  
 23 142  
 22 153  
 21 167  
 20 176  
 19 187  
 18 195  
 17 210  
 16 225  
 15 240  
 14 258  
 13 286  
 12 315  
 11 345  
 10 368  
 9 405

-----  
 TEMP PROF

24 141  
 23 167  
 22 171  
 21 175  
 20 181  
 19 188  
 18 197  
 17 213  
 16 226  
 15 245  
 14 262  
 13 284  
 12 307  
 11 337  
 10 371  
 9 402  
 8 443



## STATION 23

13/ 9/81 0H 0 Z  
 LAT 15 53'S  
 LONG 37 32'W  
 T 3M : 24.7 C  
 T461M : 9.8 C

## STATION 25

18/10/81 12H 0 Z  
 LAT 14 44'S  
 LONG 36 54'W  
 T 3M : 26.0 C  
 T461M : 8.5 C

## STATION 26

18/10/81 16H 0 Z  
 LAT 13 16'S  
 LONG 36 13'W  
 T 3M : 26.9 C  
 T461M : 8.8 C

-----  
 TEMP PROF

24 97  
 23 102  
 22 107  
 21 114  
 20 122  
 19 127  
 18 131  
 17 149  
 16 169  
 15 187  
 14 236  
 13 276  
 12 326  
 11 368  
 10 456

TEMP PROF

25 68  
 24 170  
 23 184  
 22 192  
 21 200  
 20 206  
 19 214  
 18 224  
 17 245  
 16 260  
 15 274  
 14 290  
 13 315  
 12 344  
 11 377  
 10 407  
 9 443

TEMP PROF

26 52  
 25 113  
 24 157  
 23 169  
 22 178  
 21 187  
 20 194  
 19 203  
 18 212  
 17 226  
 16 242  
 15 259  
 14 279  
 13 305  
 12 331  
 11 372  
 10 415  
 9 442

## STATION 27

19/10/81 0H 0 Z  
 LAT 11 36'S  
 LONG 35 54'W  
 T 3M : 26.0 C  
 T390M : 9.2 C

## STATION 29

19/10/81 12H 0 Z  
 LAT 8 20'S  
 LONG 34 15'W  
 T 3M : 26.1 C  
 T461M : 7.1 C

## STATION 30

19/10/81 16H 0 Z  
 LAT 6 43'S  
 LONG 33 35'W  
 T 3M : 26.9 C  
 T455M : 7.8 C

-----  
 TEMP PROF

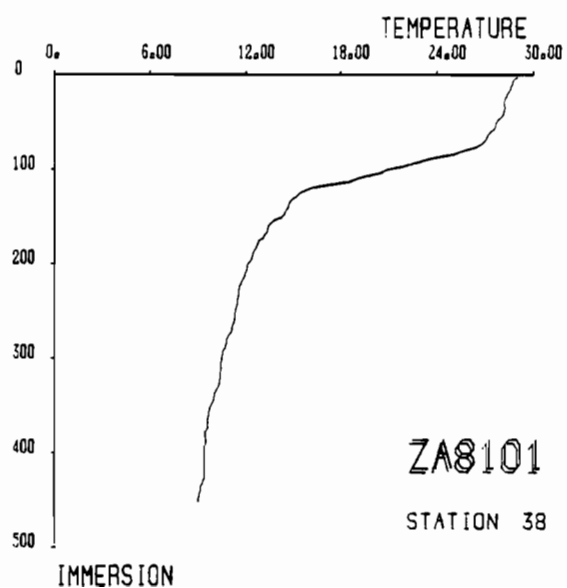
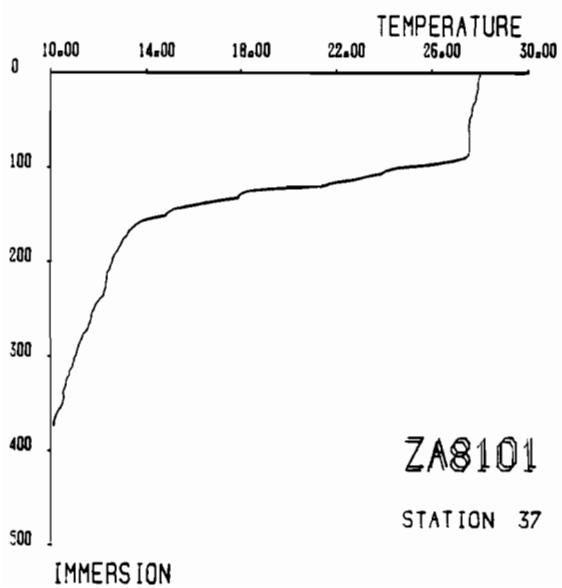
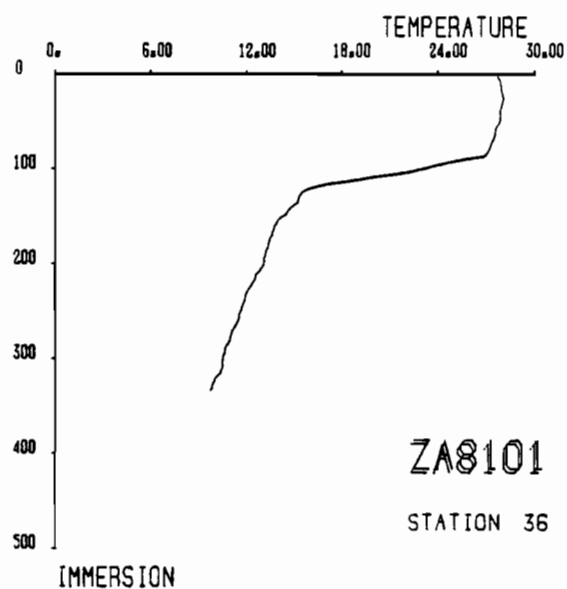
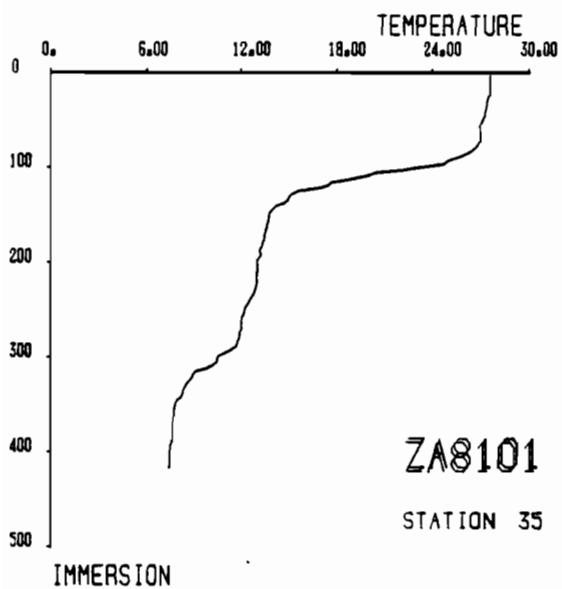
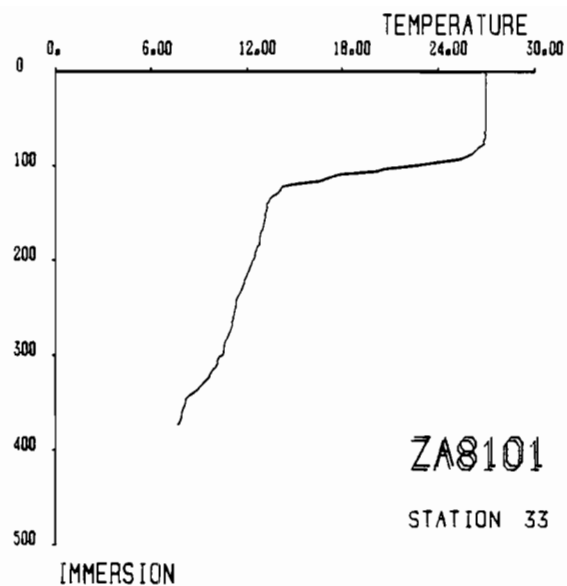
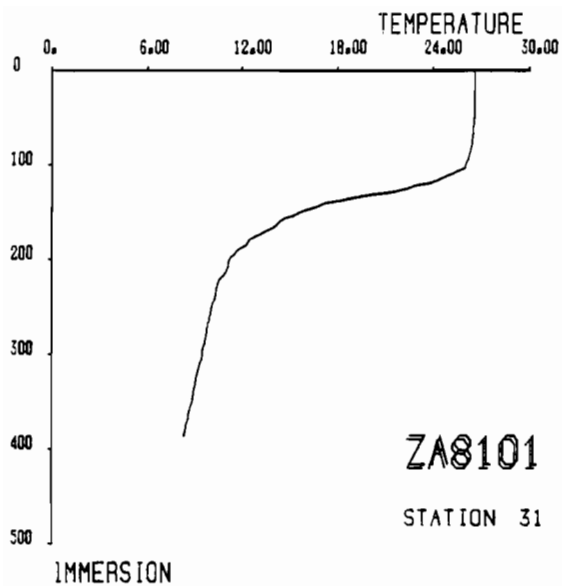
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 13 272  
 12 293  
 11 325  
 10 357

TEMP PROF

26 12  
 25 76  
 24 113  
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 22 132  
 21 142  
 20 151  
 19 161  
 18 181  
 17 190  
 16 207  
 15 224  
 14 248  
 13 264  
 12 290  
 11 322  
 10 345  
 9 378  
 8 419

TEMP PROF

26 69  
 25 97  
 24 115  
 23 129  
 22 137  
 21 141  
 20 148  
 19 155  
 18 159  
 17 165  
 16 174  
 15 182  
 14 187  
 13 203  
 12 221  
 11 247  
 10 274  
 9 335  
 8 431





STATION 31  
 20/10/81 0H 0 Z  
 LAT 4 53'S  
 LONG 32 35'W  
 T 3M : 26.6 C  
 T387M : 8.3 C

STATION 33  
 20/10/81 12H 0 Z  
 LAT 1 56'S  
 LONG 31 30'W  
 T 3M : 27.0 C  
 T374M : 7.7 C

STATION 35  
 21/10/81 0H 0 Z  
 LAT 1 9'S  
 LONG 30 6'W  
 T 3M : 27.6 C  
 T418M : 7.4 C

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TEMP	PROF
26	103
25	110
24	117
23	121
22	126
21	129
20	131
19	134
18	138
17	141
16	147
15	155
14	165
13	174
12	187
11	214
10	259
9	335

-----

TEMP	PROF
26	87
25	93
24	96
23	98
22	100
21	102
20	106
19	107
18	108
17	113
16	117
15	118
14	127
13	164
12	213
11	271
10	312
9	334
8	356

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TEMP	PROF
27	54
26	86
25	93
24	98
23	100
22	102
21	104
20	108
19	112
18	115
17	121
16	124
15	130
14	142
13	197
12	265
11	295
10	310
9	317
8	344

STATION 36  
 21/10/81 6H 0 Z  
 LAT 2 30'N  
 LONG 29 30'W  
 T 3M : 27.7 C  
 T334M : 9.7 C

STATION 37  
 21/10/81 12H 0 Z  
 LAT 4 6'N  
 LONG 28 46'W  
 T 3M : 28.0 C  
 T374M : 10.1 C

STATION 38  
 21/10/81 18H 0 Z  
 LAT 5 46'N  
 LONG 28 6'W  
 T 3M : 29.0 C  
 T452M : 9.0 C

-----

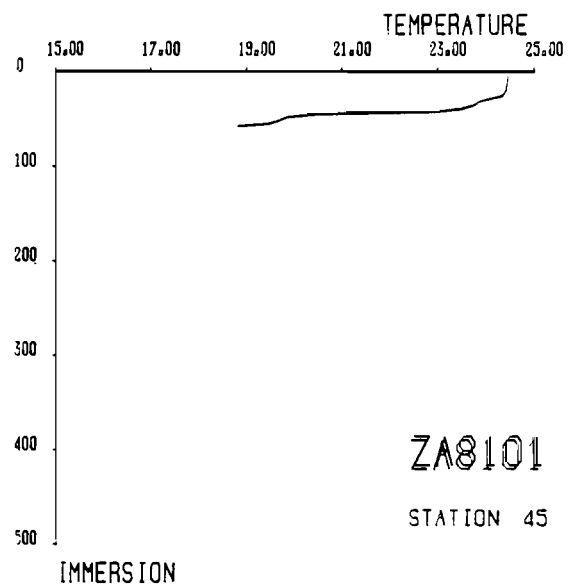
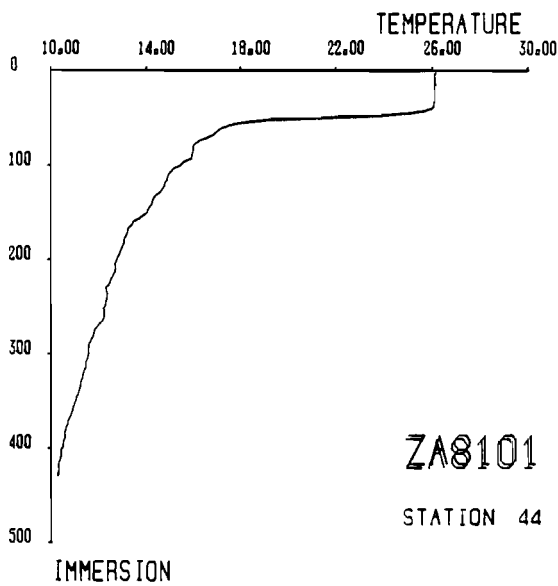
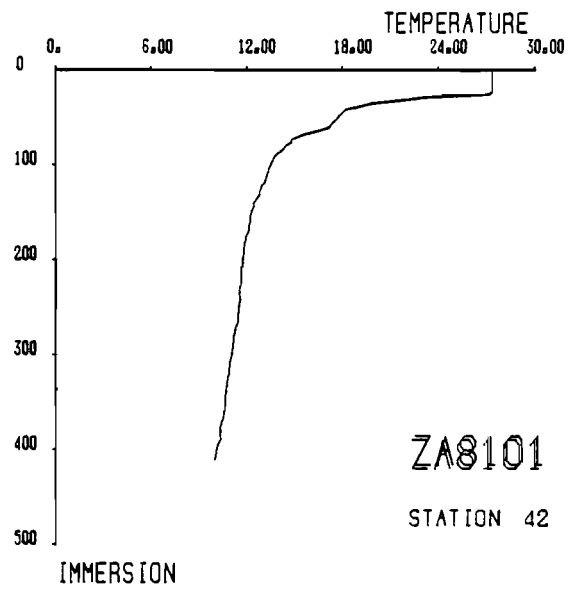
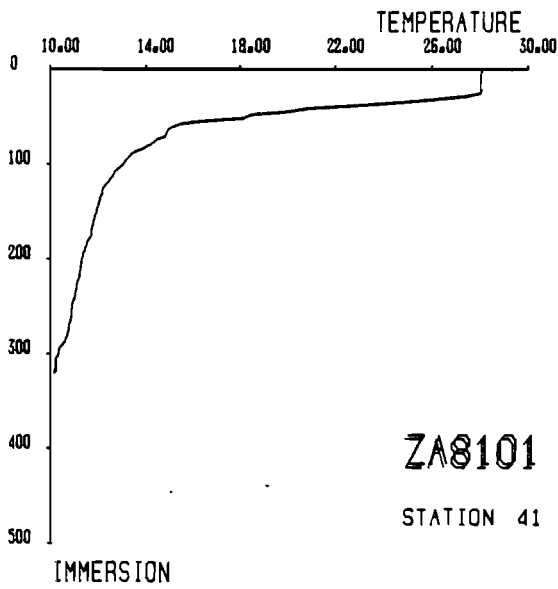
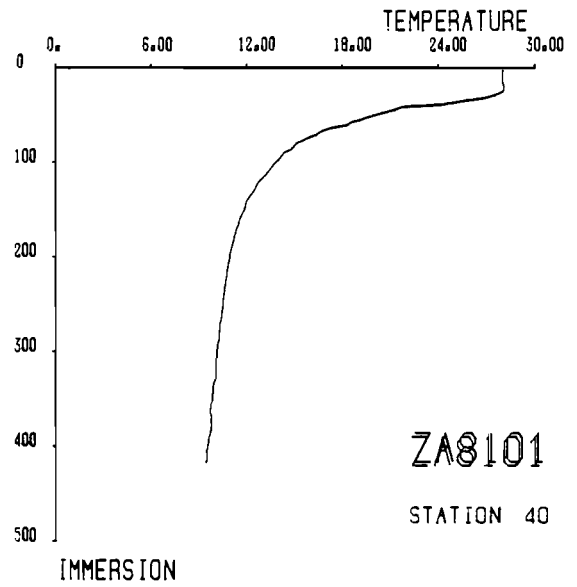
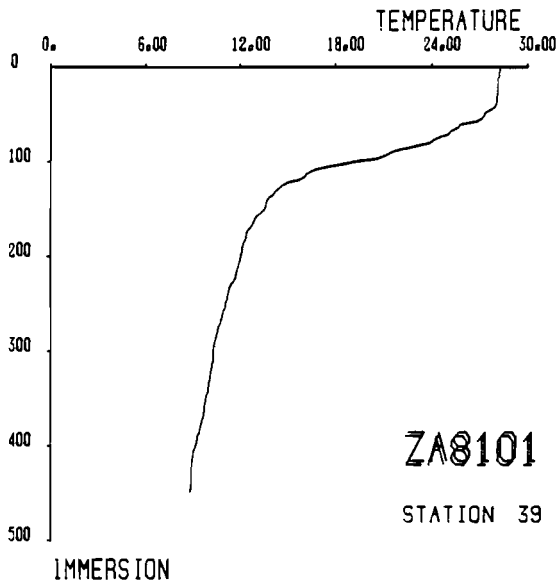
TEMP	PROF
27	85
26	89
25	92
24	96
23	100
22	103
21	106
20	108
19	111
18	114
17	116
16	120
15	138
14	153
13	202
12	228
11	273
10	321

-----

TEMP	PROF
27	92
26	96
25	98
24	103
23	111
22	115
21	119
20	120
19	122
18	128
17	135
16	140
15	146
14	155
13	176
12	240
11	302

-----

TEMP	PROF
28	45
27	69
26	78
25	84
24	86
23	91
22	96
21	99
20	104
19	110
18	114
17	116
16	120
15	130
14	152
13	173
12	207
11	273
10	338
9	452



## STATION 39

22/10/81 0H 0 Z  
 LAT 7 18'N  
 LONG 27 27'W  
 T 3M : 28.3 C  
 T449M : 8.8 C

## STATION 40

22/10/81 6H 0 Z  
 LAT 9 7'N  
 LONG 26 38'W  
 T 3M : 28.0 C  
 T418M : 9.4 C

## STATION 41

22/10/81 12H 0 Z  
 LAT 10 25'N  
 LONG 26 3'W  
 T 3M : 28.1 C  
 T321M : 10.2 C

---

 TEMP PROF

28	39
27	55
26	60
25	70
24	78
23	83
22	86
21	94
20	98
19	100
18	103
17	107
16	116
15	121
14	133
13	157
12	202
11	256
10	339
9	413

---

 TEMP PROF

28	3
27	31
26	34
25	36
24	39
23	40
22	41
21	45
20	50
19	55
18	61
17	65
16	73
15	82
14	97
13	116
12	140
11	191
10	315

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 TEMP PROF

28	26
27	29
26	32
25	34
24	36
23	37
22	39
21	41
20	44
19	46
18	52
17	53
16	56
15	62
14	82
13	100
12	141
11	241

## STATION 42

23/10/81 0H 0 Z  
 LAT 13 0'N  
 LONG 24 25'W  
 T 3M : 27.4 C  
 T411M : 9.9 C

## STATION 44

24/10/81 0H 0 Z  
 LAT 18 32'N  
 LONG 21 4'W  
 T 3M : 26.1 C  
 T430M : 10.3 C

## STATION 45

24/10/81 6H 0 Z  
 LAT 20 1'N  
 LONG 20 10'W  
 T 3M : 24.5 C  
 T 58M : 18.8 C

---

 TEMP PROF

27	26
26	26
25	27
24	28
23	29
22	31
21	32
20	34
19	38
18	45
17	61
16	66
15	72
14	87
13	120
12	173
11	301
10	405

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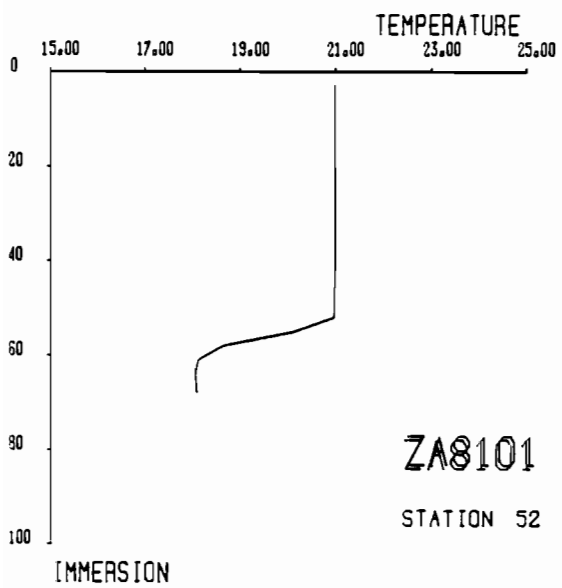
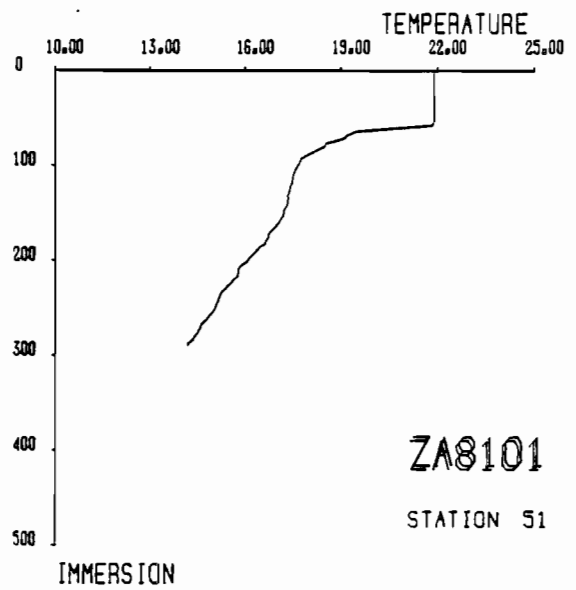
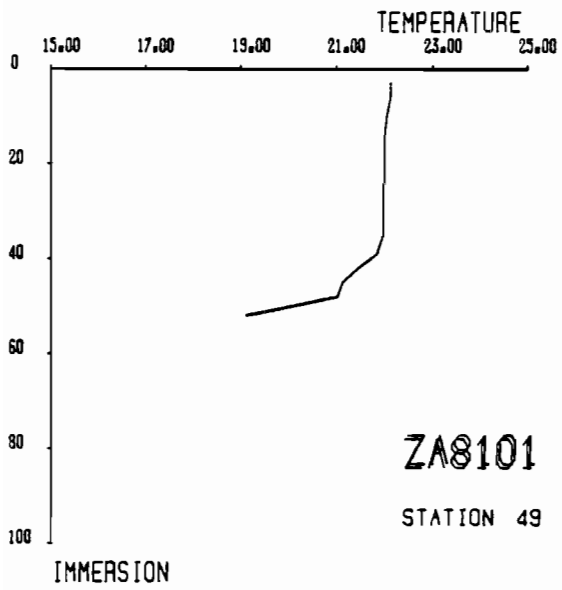
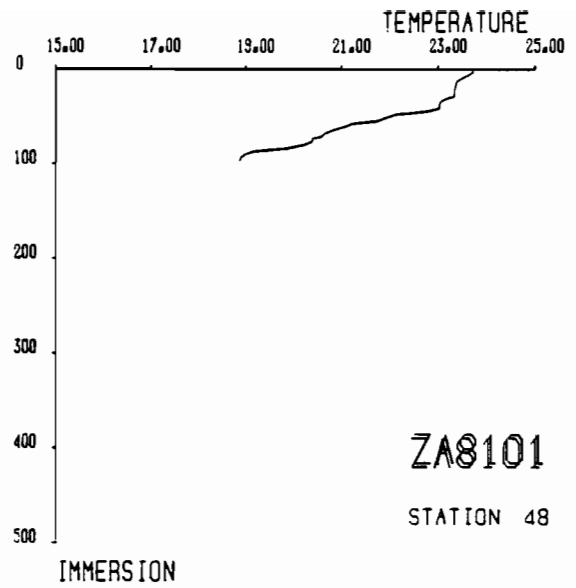
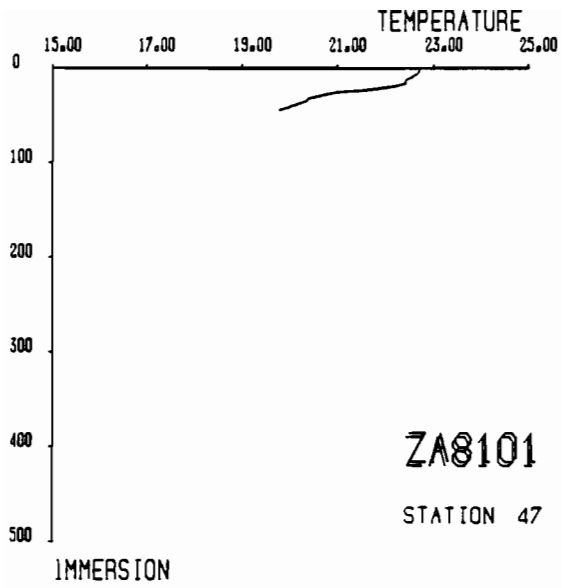
 TEMP PROF

26	39
25	45
24	47
23	48
22	49
21	50
20	51
19	52
18	55
17	65
16	80
15	107
14	151
13	184
12	268
11	350

---

 TEMP PROF

24	29
23	41
22	43
21	44
20	47
19	57



## STATION 47

24/10/81 14H 0 Z  
 LAT 22 10'N  
 LONG 18 52'W  
 T 3M : 22.7 C  
 T 45M : 19.8 C

## STATION 48

24/10/81 18H 0 Z  
 LAT 23 10'N  
 LONG 18 14'W  
 T 3M : 23.7 C  
 T 97M : 18.8 C

## STATION 49

25/10/81 0H 0 Z  
 LAT 24 41'N  
 LONG 17 30'W  
 T 3M : 22.1 C  
 T 52M : 19.1 C

-----  
 TEMP PROF

22 20  
 21 25  
 20 41

-----  
 TEMP PROF

23 42  
 22 49  
 21 62  
 20 82  
 19 90

-----  
 TEMP PROF

22 19  
 21 48  
 20 50

## STATION 51

28/10/81 6H 0 Z  
 LAT 30 51'N  
 LONG 15 6'W  
 T 3M : 21.9 C  
 T 290M : 14.1 C

## STATION 52

28/10/81 18H 0 Z  
 LAT 34 0'N  
 LONG 13 52'W  
 T 3M : 21.0 C  
 T 68M : 18.1 C

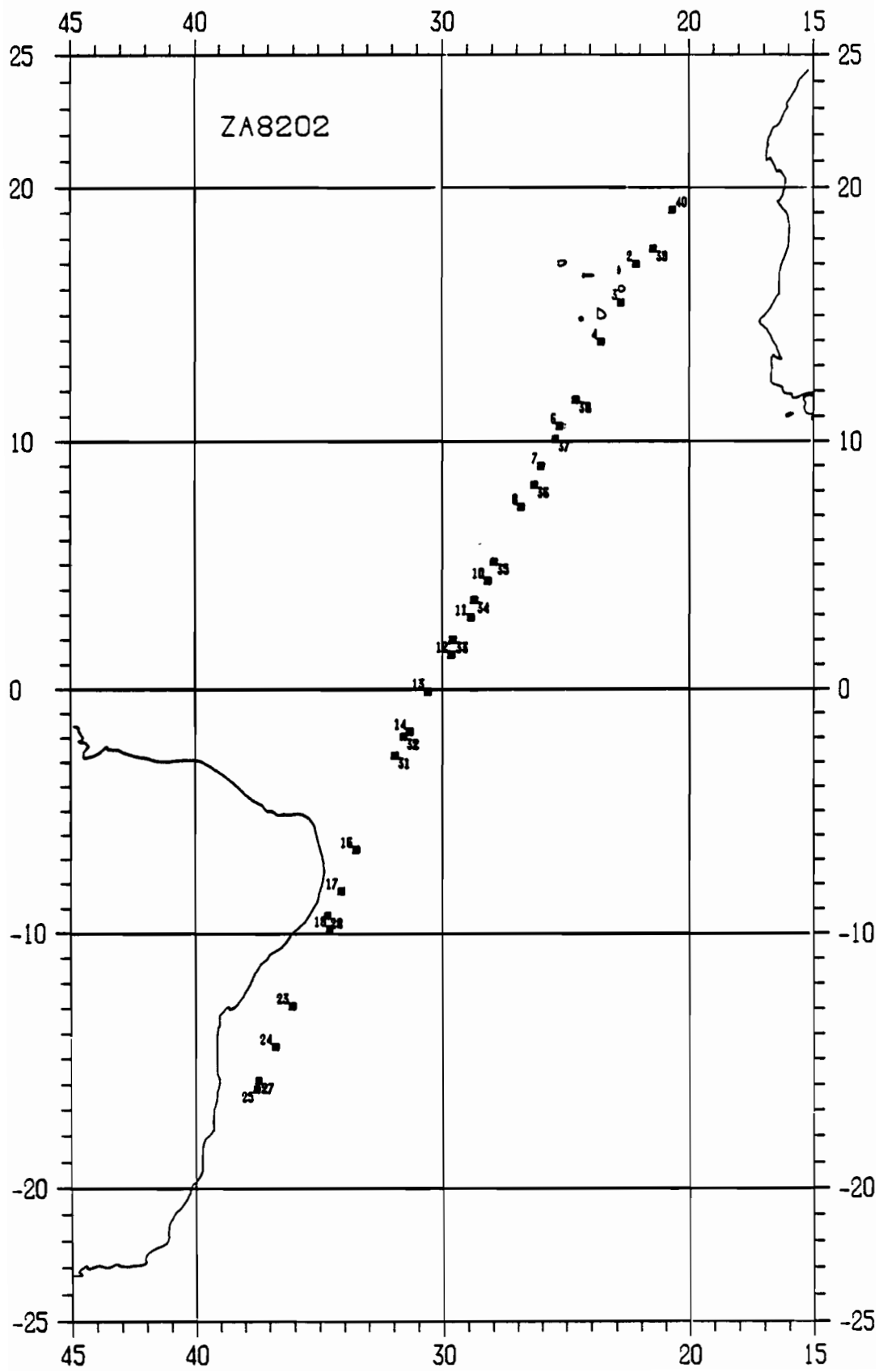
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 TEMP PROF

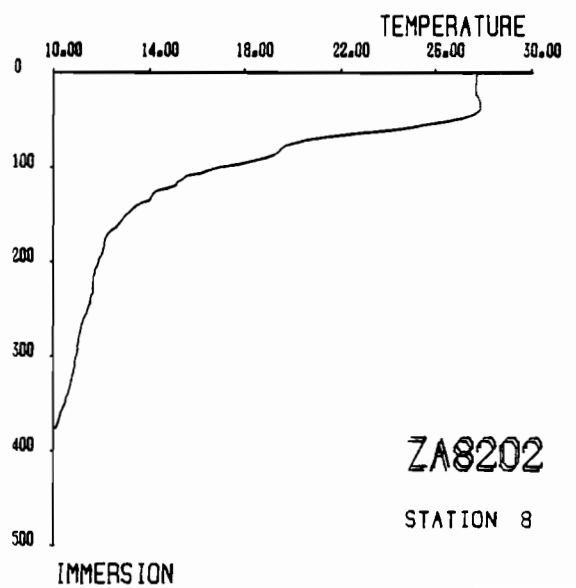
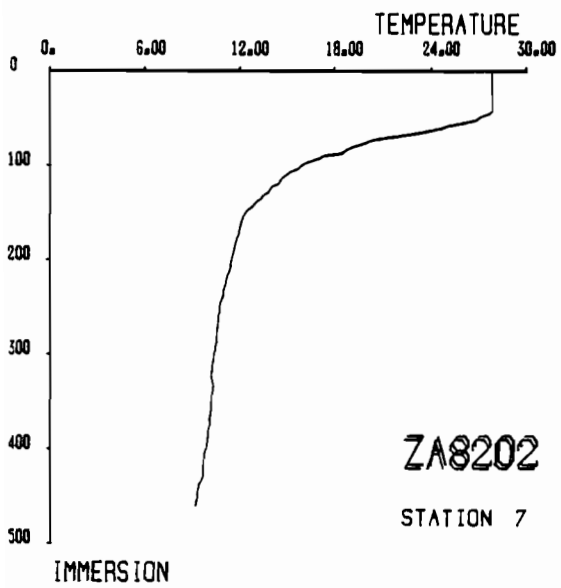
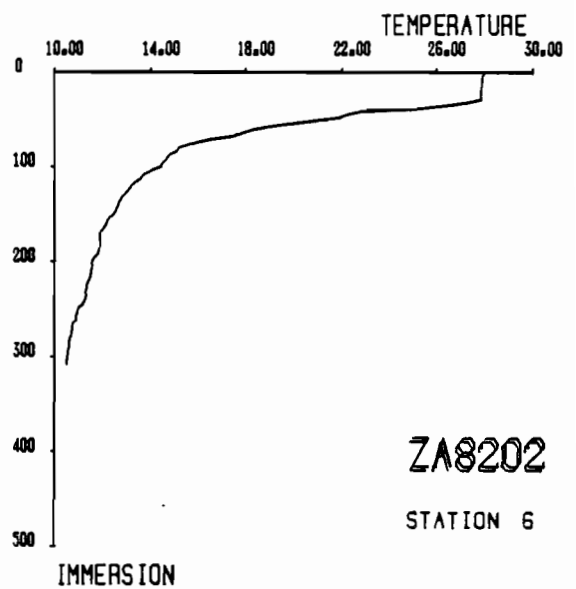
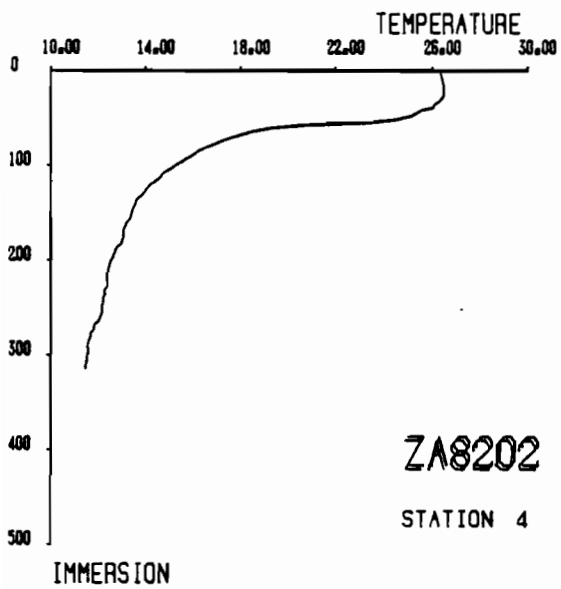
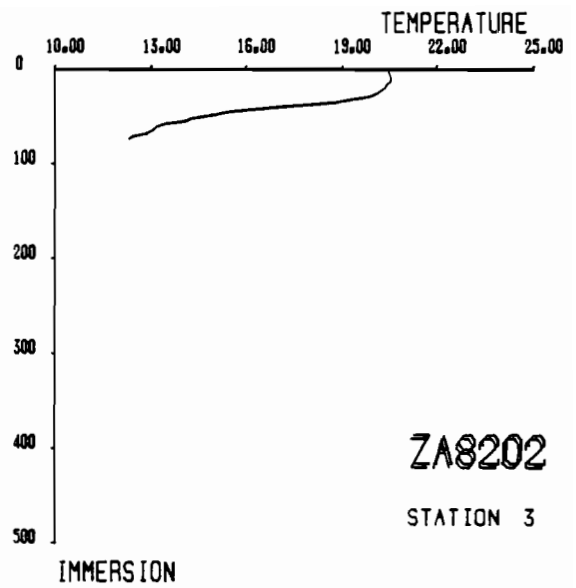
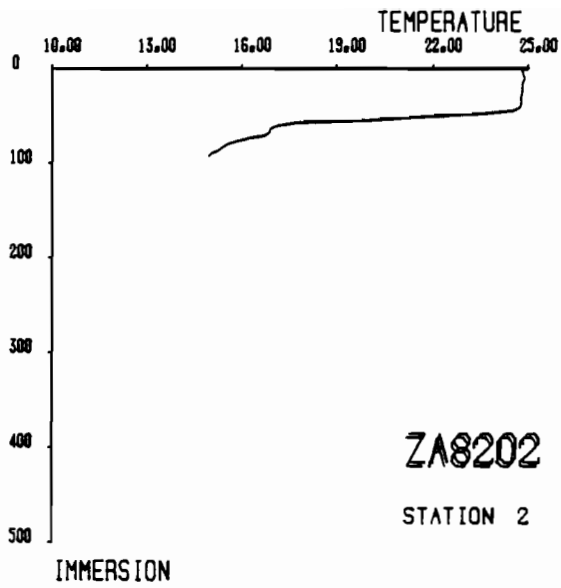
21 60  
 20 62  
 19 72  
 18 98  
 17 162  
 16 202  
 15 250

-----  
 TEMP PROF

20 55  
 19 57

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*
*                      -----
*  DESCRIPTIF DE LA CROISIERE NO. . ZAB202 .
*                      -----
*
*  DATE DEBUT DE CROISIERE           DATE FIN DE CROISIERE
*
*    27/11/81                          8/ 1/82
*
*  LATITUDE    MINIMUM           LATITUDE    MAXIMUM
*
*    16 10 S              19   8 N
*
*  LONGITUDE   MINIMUM           LONGITUDE   MAXIMUM
*
*    20 42 W              37 31 W
*
*  NOMBRE DE STATIONS           +GD. NO. DE STATION
*
*    29                          40
*
*  NB. PARAM. MESURES
*    2
*
*  CODES DES PARAMETRES (CODE BHDO)
*
*  1   3
*
*
*
*
*
*
*
*
*
*
*
*
*****
```







## STATION 2

27/11/81 18H 0 Z  
 LAT 17 0'N  
 LONG 22 12'W  
 T 3M : 24.8 C  
 T 93M : 14.9 C

## STATION 3

28/11/81 0H 0 Z  
 LAT 15 30'N  
 LONG 22 48'W  
 T 3M : 20.5 C  
 T 74M : 12.3 C

## STATION 4

28/11/81 6H 0 Z  
 LAT 13 57'N  
 LONG 23 37'W  
 T 0H : 26.3 C  
 T315M : 11.4 C

-----  
 TEMP PROF

24 46  
 23 48  
 22 50  
 21 52  
 20 54  
 19 56  
 18 57  
 17 62  
 16 75  
 15 91

TEMP PROF

20 27  
 19 33  
 18 36  
 17 39  
 16 43  
 15 48  
 14 55  
 13 64

TEMP PROF

26 39  
 25 48  
 24 52  
 23 55  
 22 56  
 21 57  
 20 59  
 19 61  
 18 67  
 17 76  
 16 88  
 15 104  
 14 125  
 13 179  
 12 264

## STATION 6

28/11/81 18H 0 Z  
 LAT 10 36'N  
 LONG 25 16'W  
 T 3M : 27.9 C  
 T309M : 10.5 C

## STATION 7

29/11/81 0H 0 Z  
 LAT 9 0'N  
 LONG 26 2'W  
 T 3M : 27.8 C  
 T461M : 9.1 C

## STATION 8

29/11/81 6H 0 Z  
 LAT 7 21'N  
 LONG 26 51'W  
 T 3M : 27.7 C  
 T377M : 10.1 C

-----  
 TEMP PROF

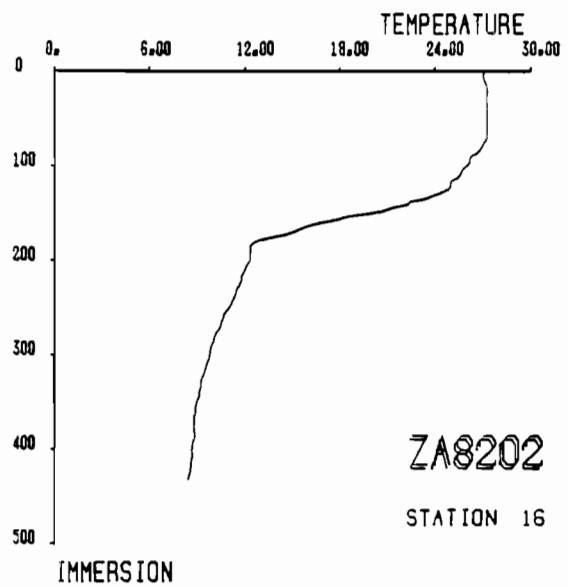
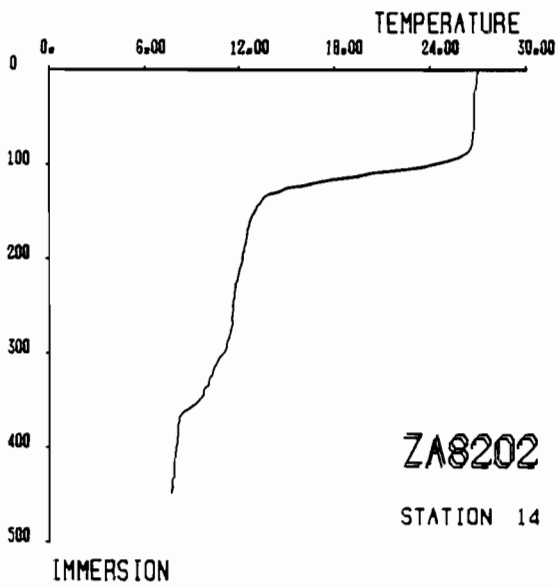
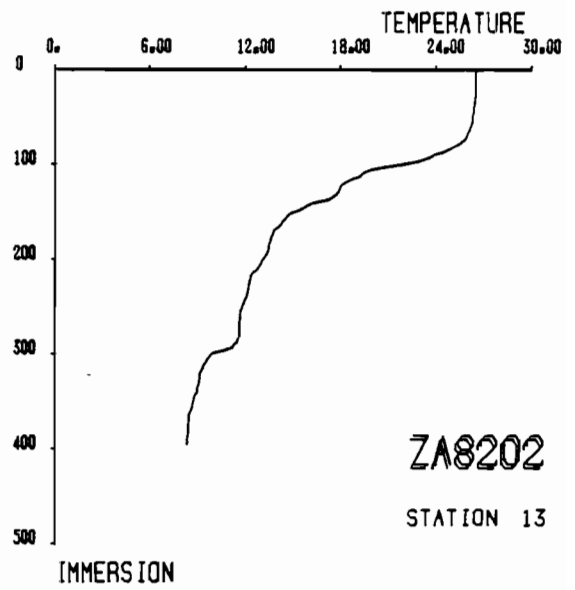
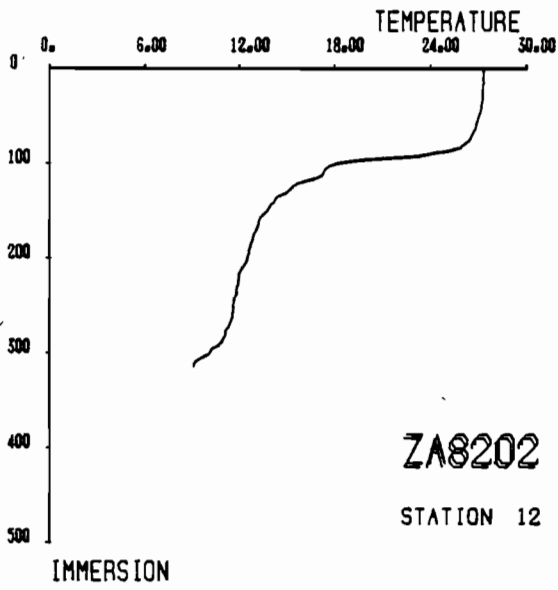
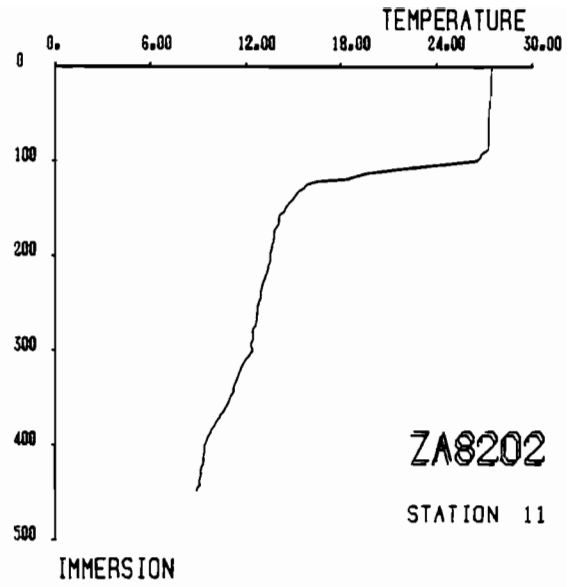
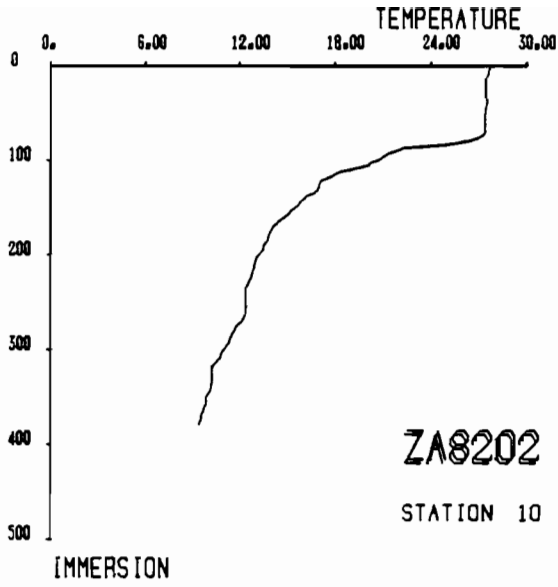
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 25 38  
 24 40  
 23 41  
 22 46  
 21 50  
 20 53  
 19 57  
 18 62  
 17 69  
 16 74  
 15 84  
 14 104  
 13 126  
 12 165  
 11 249

TEMP PROF

27 49  
 26 54  
 25 58  
 24 62  
 23 65  
 22 68  
 21 70  
 20 75  
 19 81  
 18 88  
 17 92  
 16 98  
 15 108  
 14 121  
 13 139  
 12 164  
 11 229  
 10 379

TEMP PROF

27 48  
 26 53  
 25 58  
 24 61  
 23 63  
 22 66  
 21 69  
 20 75  
 19 89  
 18 95  
 17 99  
 16 106  
 15 119  
 14 133  
 13 150  
 12 193  
 11 288



## STATION 10

29/11/81 18H 0 Z  
 LAT 4 22'N  
 LONG 28 12'W  
 T 3M : 27.6 C  
 T380M : 9.4 C

## STATION 11

30/11/81 0H 0 Z  
 LAT 2 54'N  
 LONG 28 53'W  
 T 3M : 27.5 C  
 T449M : 8.9 C

## STATION 12

30/11/81 6H 0 Z  
 LAT 1 23'N  
 LONG 29 40'W  
 T 3M : 27.3 C  
 T315M : 9.1 C

---

 TEMP PROF

27 76  
 26 80  
 25 83  
 24 84  
 23 86  
 22 89  
 21 96  
 20 106  
 19 109  
 18 114  
 17 123  
 16 139  
 15 156  
 14 169  
 13 202  
 12 271  
 11 299  
 10 347

---

 TEMP PROF

27 91  
 26 100  
 25 102  
 24 104  
 23 106  
 22 108  
 21 110  
 20 112  
 19 115  
 18 119  
 17 121  
 16 124  
 15 138  
 14 164  
 13 230  
 12 309  
 11 349  
 10 379  
 9 443

---

 TEMP PROF

27 51  
 26 80  
 25 87  
 24 90  
 23 93  
 22 94  
 21 95  
 20 96  
 19 98  
 18 101  
 17 114  
 16 119  
 15 129  
 14 142  
 13 170  
 12 215  
 11 285  
 10 302

## STATION 13

30/11/81 12H 0 Z  
 LAT 0 6'S  
 LONG 30 36'W  
 T 3M : 26.6 C  
 T396M : 8.3 C

## STATION 14

30/11/81 18H 0 Z  
 LAT 1 44'S  
 LONG 31 20'W  
 T 3M : 27.0 C  
 T449M : 7.7 C

## STATION 16

1/12/81 12H 0 Z  
 LAT 6 36'S  
 LONG 33 30'W  
 T 3M : 27.1 C  
 T433M : 8.4 C

---

 TEMP PROF

26 67  
 25 82  
 24 89  
 23 96  
 22 99  
 21 101  
 20 105  
 19 113  
 18 122  
 17 138  
 16 142  
 15 150  
 14 165  
 13 201  
 12 239  
 11 293  
 10 298  
 9 332

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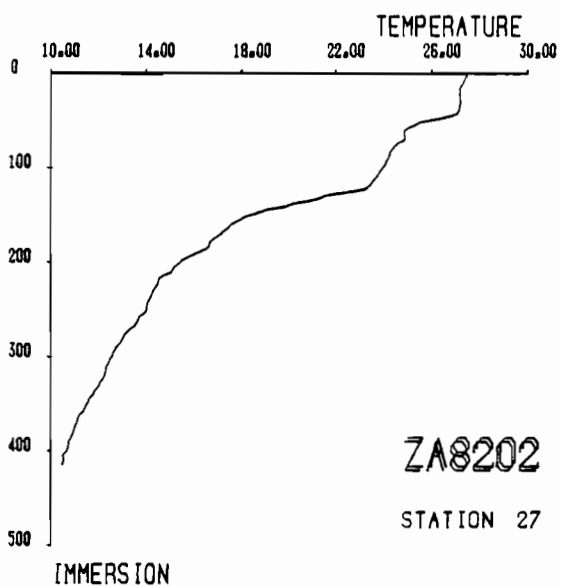
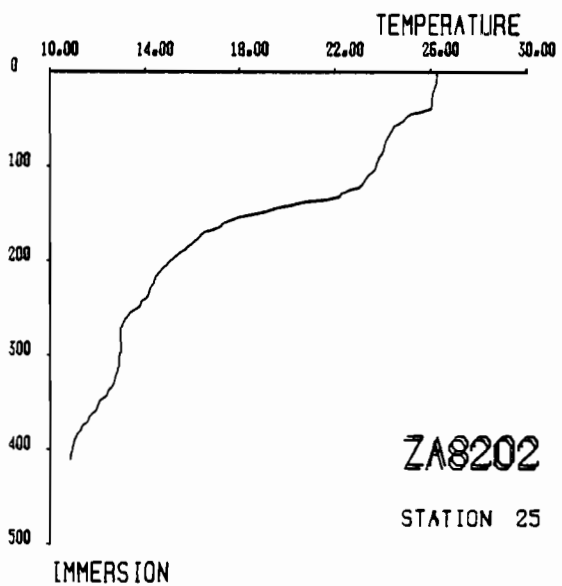
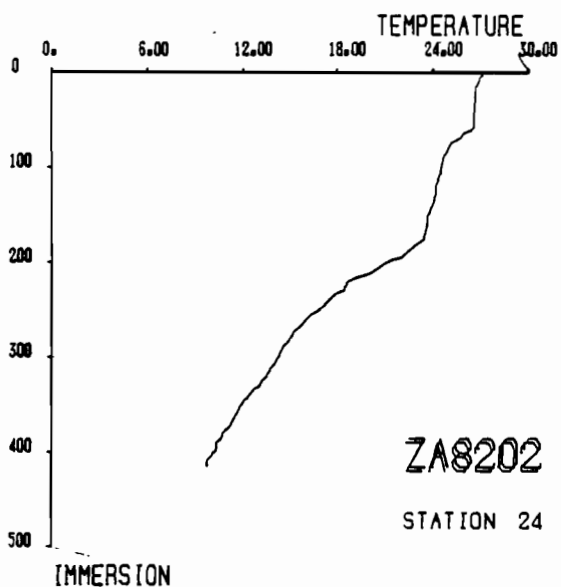
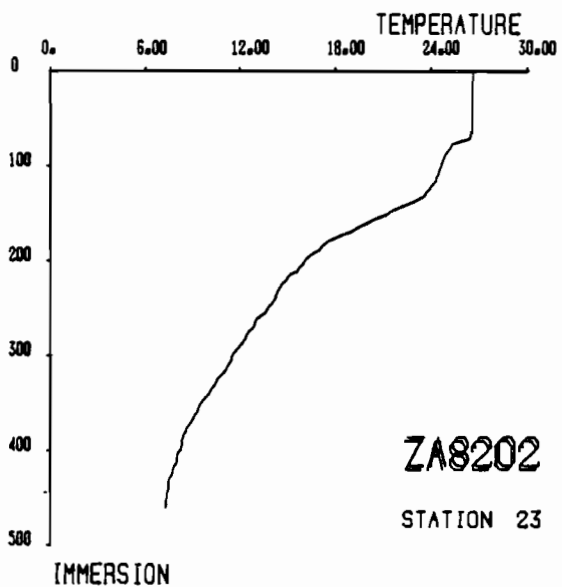
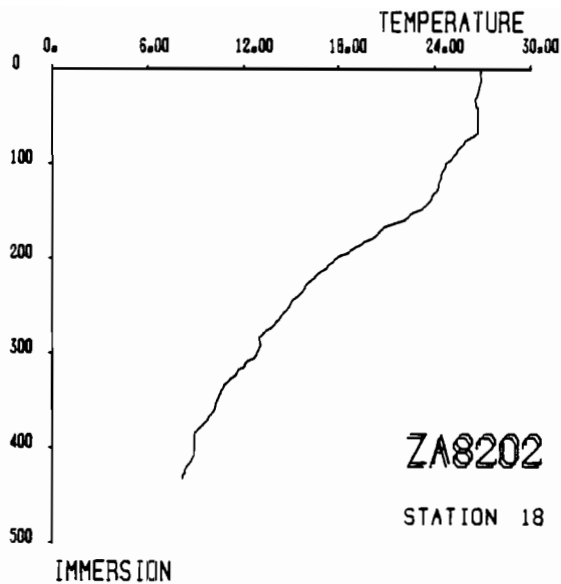
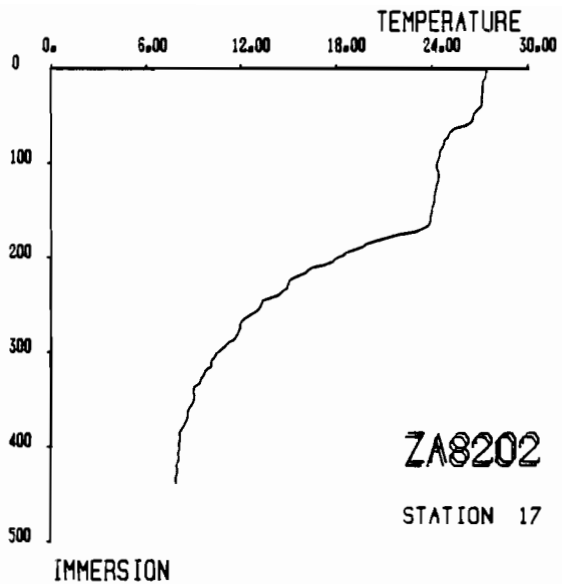
 TEMP PROF

26 91  
 25 96  
 24 100  
 23 103  
 22 105  
 21 107  
 20 110  
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 18 115  
 17 118  
 16 122  
 15 124  
 14 130  
 13 146  
 12 212  
 11 301  
 10 335  
 9 356  
 8 400

---

 TEMP PROF

27 79  
 26 100  
 25 117  
 24 130  
 23 135  
 22 141  
 21 145  
 20 149  
 19 152  
 18 156  
 17 159  
 16 163  
 15 170  
 14 174  
 13 178  
 12 208  
 11 249  
 10 285  
 9 347



## STATION 17

1/12/81 18H 0 Z  
 LAT 8 17'S  
 LONG 34 7'W  
 T 3M : 27.5 C  
 T439M : 7.9 C

## STATION 18

2/12/81 0H 0 Z  
 LAT 9 48'S  
 LONG 34 35'W  
 T 3M : 26.9 C  
 T433M : 8.2 C

## STATION 23

2/12/81 12H 0 Z  
 LAT 12 54'S  
 LONG 36 5'W  
 T 3M : 26.7 C  
 T461M : 7.3 C

---

TEMP PROF

27 43  
 26 61  
 25 73  
 24 148  
 23 172  
 22 175  
 21 179  
 20 185  
 19 192  
 18 201  
 17 209  
 16 217  
 15 226  
 14 241  
 13 256  
 12 269  
 11 294  
 10 317  
 9 353  
 8 416

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TEMP PROF

26 75  
 25 97  
 24 131  
 23 149  
 22 160  
 21 166  
 20 180  
 19 189  
 18 199  
 17 214  
 16 227  
 15 246  
 14 267  
 13 282  
 12 315  
 11 331  
 10 365  
 9 386

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TEMP PROF

26 73  
 25 85  
 24 121  
 23 136  
 22 143  
 21 152  
 20 159  
 19 168  
 18 175  
 17 187  
 16 202  
 15 216  
 14 243  
 13 262  
 12 290  
 11 318  
 10 341  
 9 367  
 8 407

## STATION 24

2/12/81 18H 0 Z  
 LAT 14 30'S  
 LONG 36 46'W  
 T 3M : 27.1 C  
 T415M : 9.8 C

## STATION 25

3/12/81 0H 0 Z  
 LAT 16 10'S  
 LONG 37 31'W  
 T 3M : 26.2 C  
 T411M : 10.9 C

## STATION 27

2/ 1/82 18H 0 Z  
 LAT 15 50'S  
 LONG 37 26'W  
 T 3M : 27.5 C  
 T415M : 10.5 C

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TEMP PROF

27 4  
 26 63  
 25 77  
 24 137  
 23 180  
 22 194  
 21 201  
 20 211  
 19 217  
 18 232  
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 16 260  
 15 279  
 14 306  
 13 329  
 12 347  
 11 376  
 10 405

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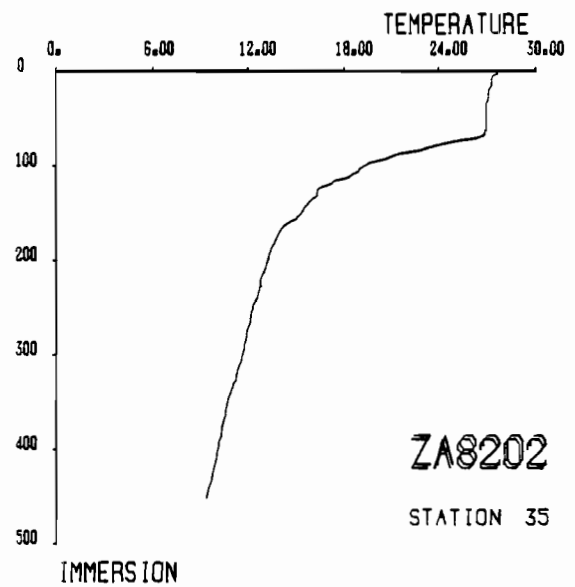
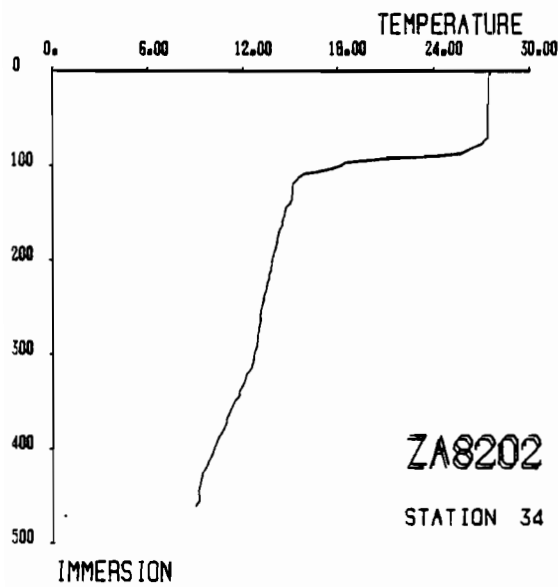
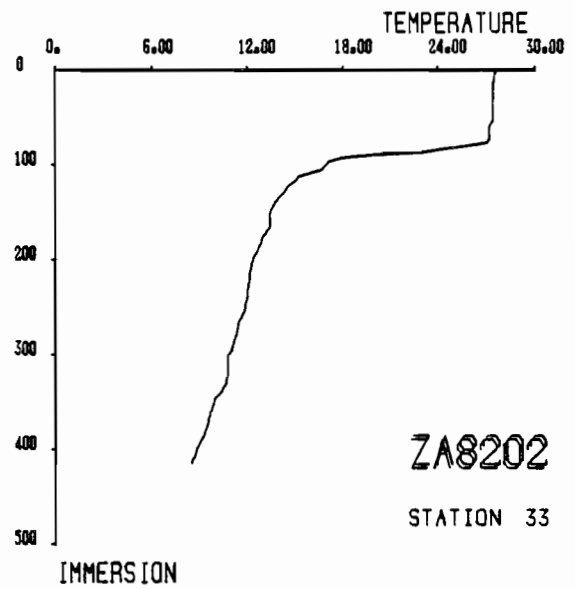
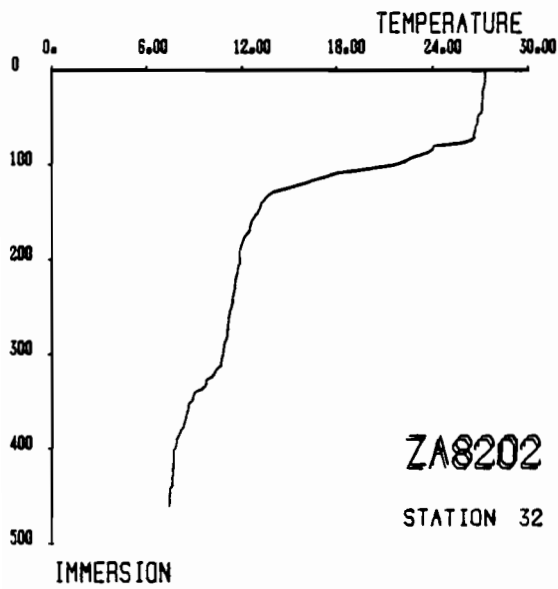
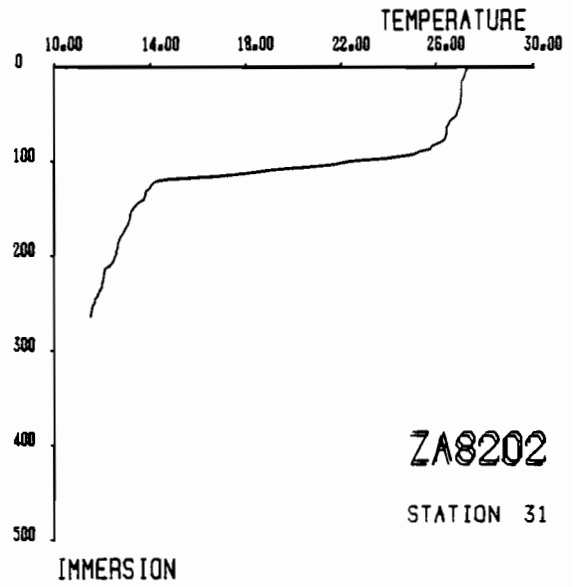
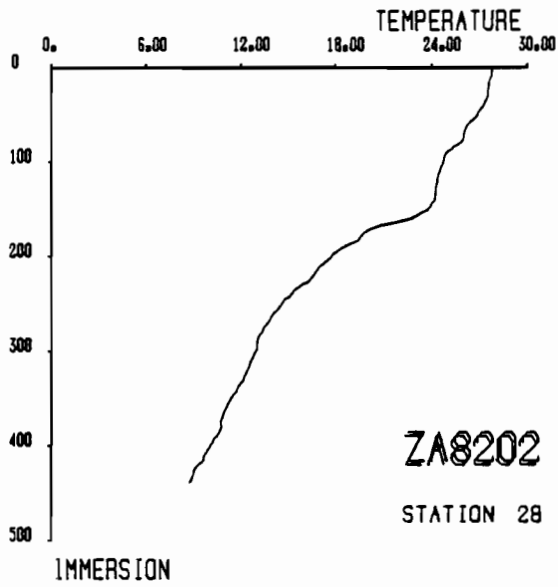
TEMP PROF

26 39  
 25 47  
 24 80  
 23 121  
 22 132  
 21 137  
 20 141  
 19 148  
 18 153  
 17 165  
 16 181  
 15 201  
 14 240  
 13 271  
 12 354  
 11 394

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TEMP PROF

27 42  
 26 49  
 25 58  
 24 98  
 23 123  
 22 127  
 21 133  
 20 139  
 19 144  
 18 153  
 17 173  
 16 191  
 15 211  
 14 246  
 13 279  
 12 330  
 11 373



## STATION 28

3/ 1/82 18H 0 Z  
 LAT 9 17'S  
 LONG 34 40'W  
 T 3M : 27.8 C  
 T439M : 8.8 C

## STATION 31

4/ 1/82 18H 0 Z  
 LAT 2 42'S  
 LONG 31 56'W  
 T 3M : 27.3 C  
 T265M : 11.5 C

## STATION 32

4/ 1/82 21H 0 Z  
 LAT 1 56'S  
 LONG 31 35'W  
 T 3M : 27.3 C  
 T461M : 7.4 C

---

 TEMP PROF

27	45
26	69
25	89
24	143
23	157
22	162
21	166
20	172
19	186
18	195
17	210
16	228
15	242
14	260
13	288
12	333
11	361
10	402
9	430

---

 TEMP PROF

27	36
26	81
25	93
24	96
23	98
22	101
21	105
20	107
19	109
18	113
17	115
16	117
15	118
14	126
13	168
12	229

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 TEMP PROF

27	45
26	76
25	78
24	82
23	91
22	97
21	101
20	104
19	107
18	109
17	114
16	119
15	124
14	128
13	148
12	181
11	283
10	324
9	342
8	385

## STATION 33

5/ 1/82 12H 0 Z  
 LAT 2 0'N  
 LONG 29 37'W  
 T 3M : 27.5 C  
 T415M : 8.5 C

## STATION 34

5/ 1/82 18H 0 Z  
 LAT 3 36'N  
 LONG 28 46'W  
 T 3M : 27.5 C  
 T461M : 9.0 C

## STATION 35

6/ 1/82 0H 0 Z  
 LAT 5 8'N  
 LONG 27 57'W  
 T 3M : 27.6 C  
 T452M : 9.3 C

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 TEMP PROF

27	77
26	79
25	82
24	84
23	87
22	88
21	89
20	90
19	91
18	92
17	98
16	108
15	117
14	134
13	175
12	238
11	296
10	345
9	392

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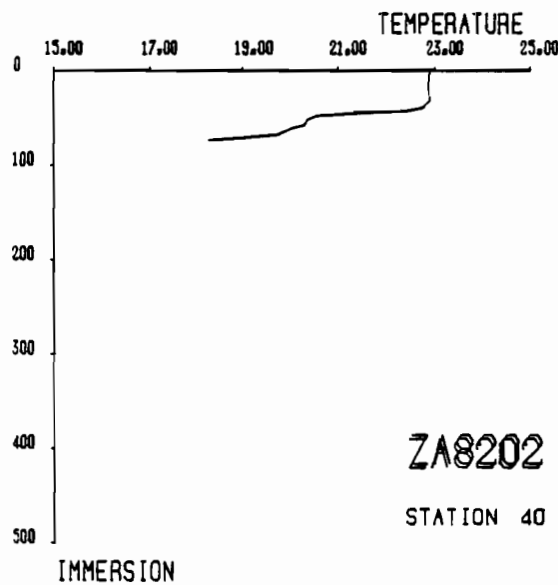
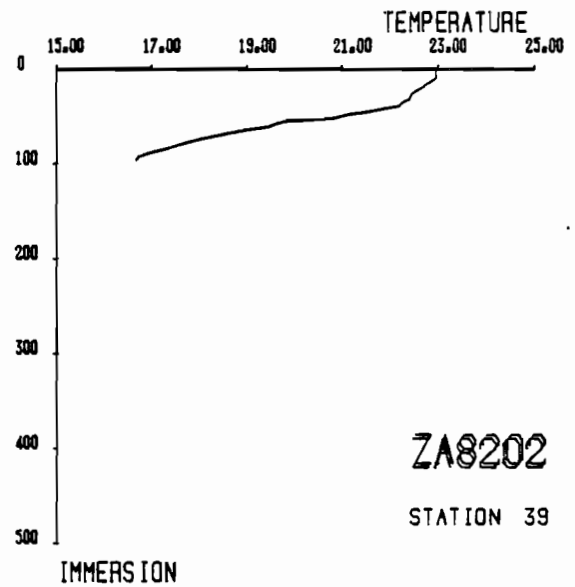
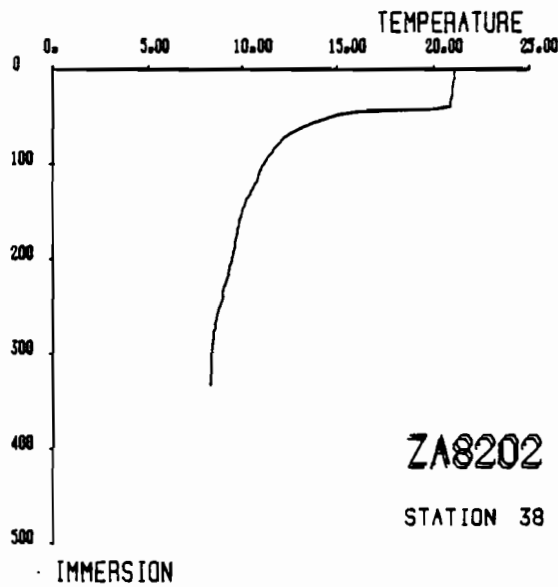
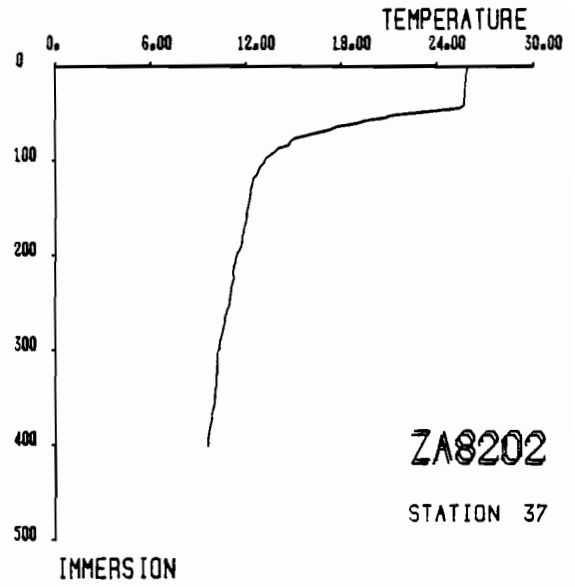
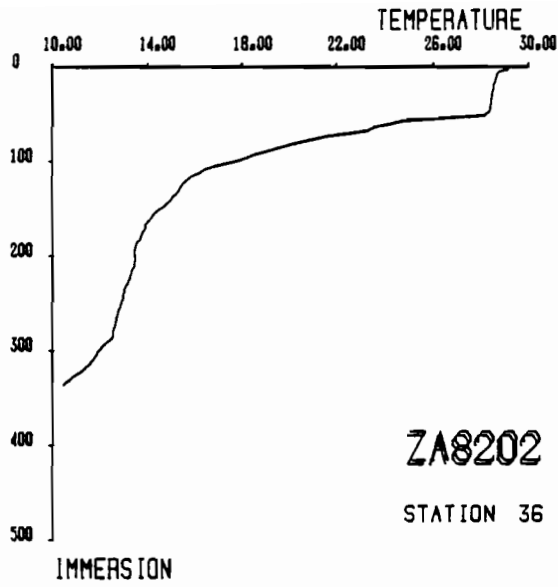
 TEMP PROF

27	77
26	84
25	88
24	90
23	91
22	92
21	92
20	94
19	96
18	101
17	105
16	108
15	138
14	189
13	268
12	331
11	366
10	408

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 TEMP PROF

27	32
26	71
25	74
24	78
23	82
22	85
21	90
20	95
19	102
18	113
17	119
16	135
15	157
14	170
13	211
12	271
11	335
10	405





## STATION 36

6/ 1/82 12H 0 Z  
 LAT 8 15'N  
 LONG 26 18'W  
 T 3M : 29.1 C  
 T337M : 10.5 C

## STATION 37

6/ 1/82 18H 0 Z  
 LAT 10 5'N  
 LONG 25 26'W  
 T 3M : 25.9 C  
 T402M : 9.6 C

## STATION 38

7/ 1/82 0H 0 Z  
 LAT 11 40'N  
 LONG 24 37'W  
 T 3M : 21.1 C  
 T334M : 8.4 C

-----  
 TEMP PROF

29 3  
 28 52  
 27 53  
 26 55  
 25 57  
 24 61  
 23 68  
 22 72  
 21 76  
 20 82  
 19 89  
 18 98  
 17 104  
 16 114  
 15 141  
 14 163  
 13 234  
 12 297  
 11 325

-----  
 TEMP PROF

25 45  
 24 47  
 23 48  
 22 50  
 21 52  
 20 56  
 19 60  
 18 63  
 17 68  
 16 72  
 15 76  
 14 86  
 13 103  
 12 160  
 11 236  
 10 341

-----  
 TEMP PROF

21 13  
 20 42  
 19 42  
 18 43  
 17 44  
 16 44  
 15 47  
 14 53  
 13 61  
 12 73  
 11 101  
 10 146  
 9 233

## STATION 39

7/ 1/82 23H45 Z  
 LAT 17 36'N  
 LONG 21 30'W  
 T 0M : 23.0 C  
 T 97M : 16.7 C

## STATION 40

8/ 1/82 5H45 Z  
 LAT 19 8'N  
 LONG 20 42'W  
 T 3M : 22.9 C  
 T 74M : 18.3 C

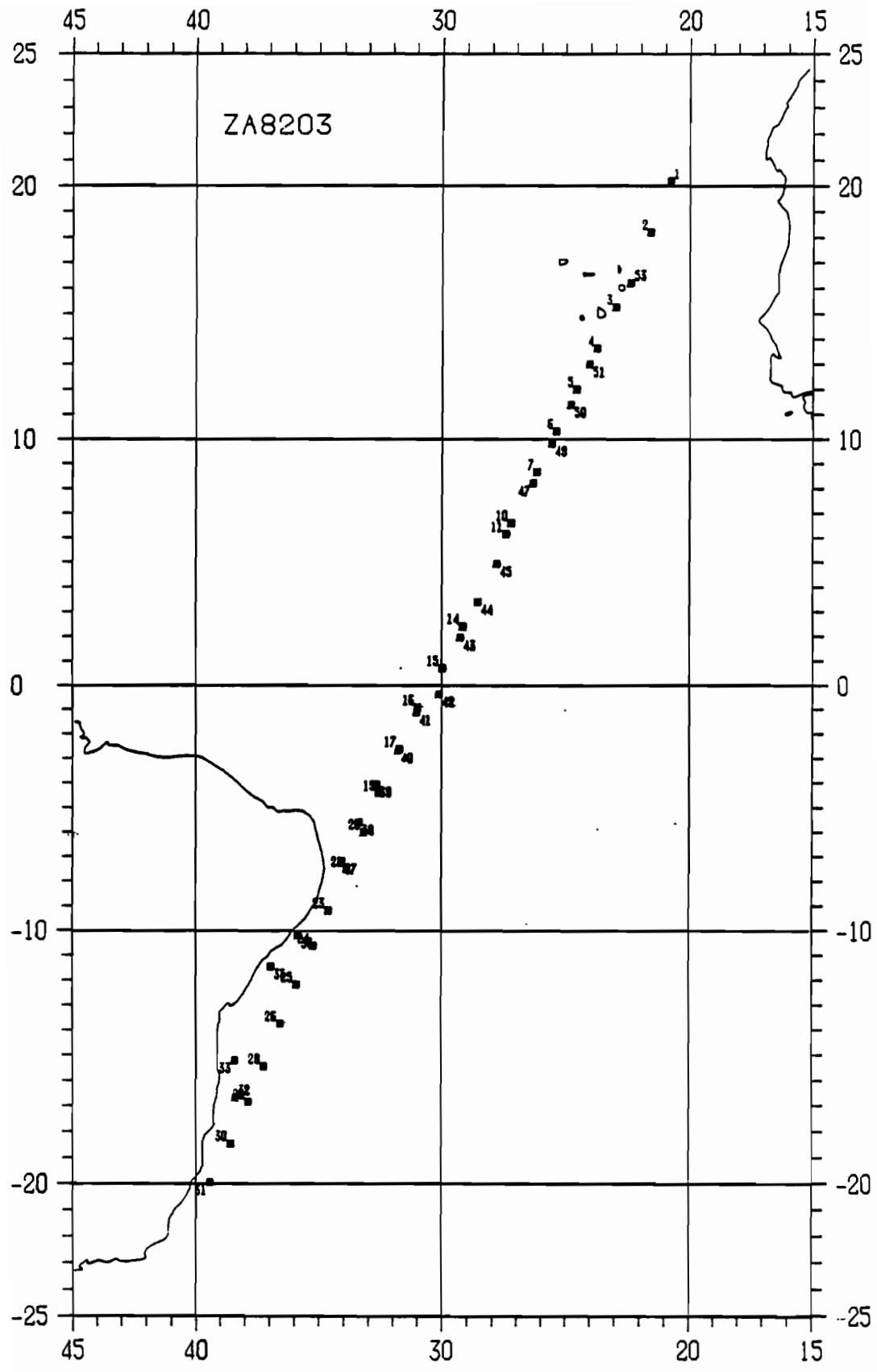
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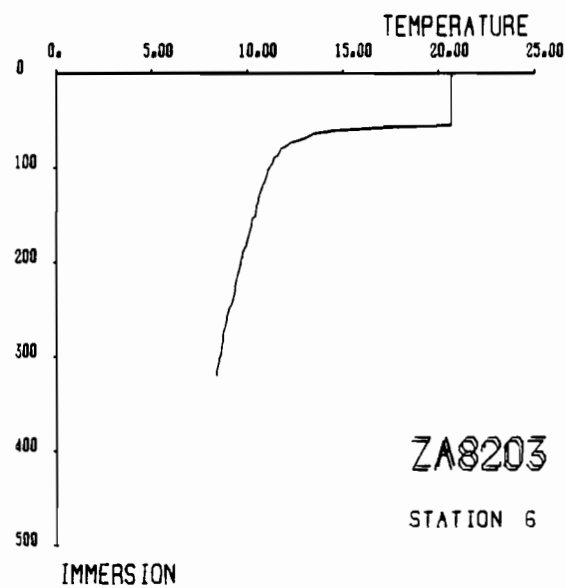
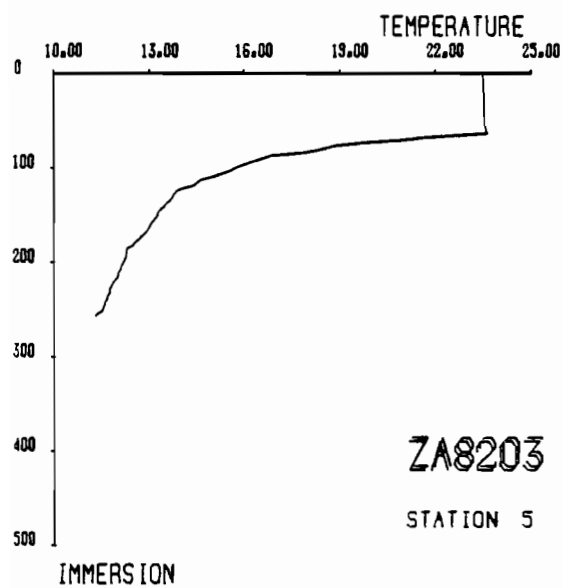
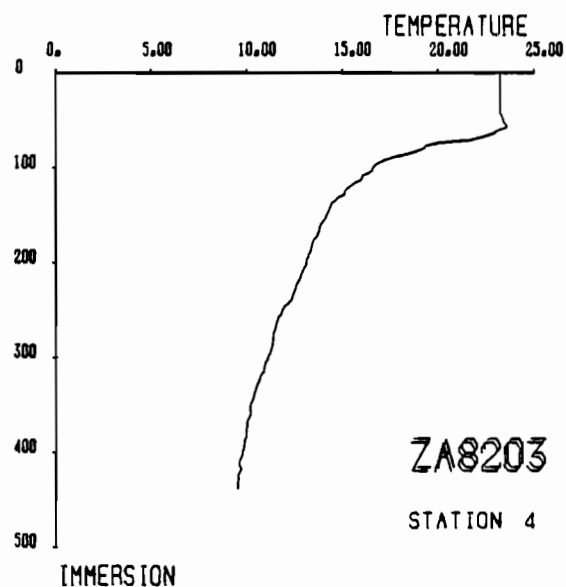
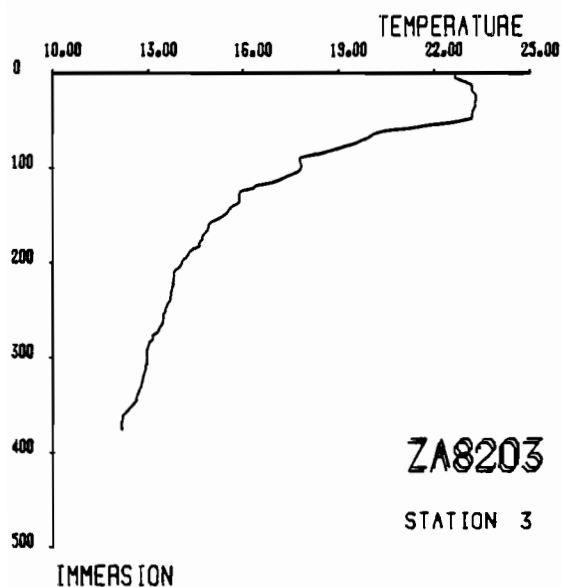
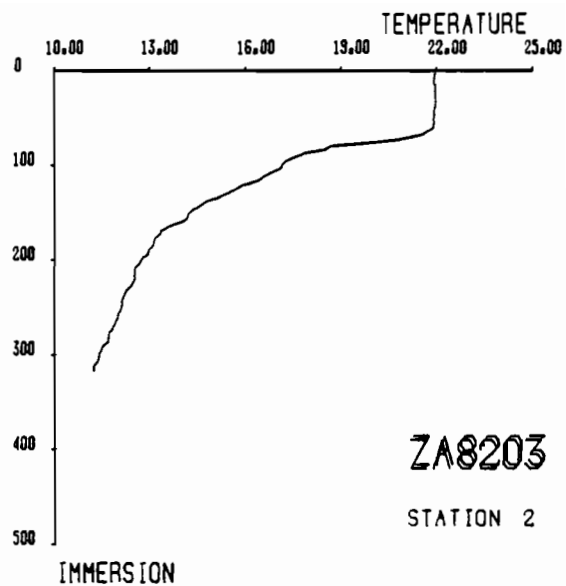
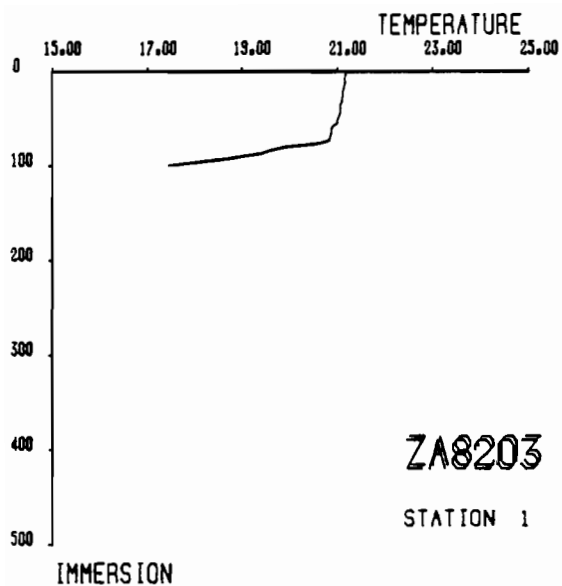
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 20 54  
 19 63  
 18 74  
 17 87

-----  
 TEMP PROF

22 43  
 21 46  
 20 60  
 19 70





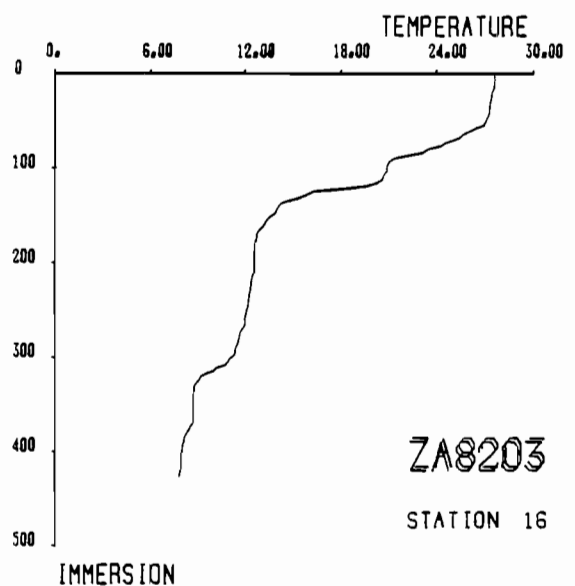
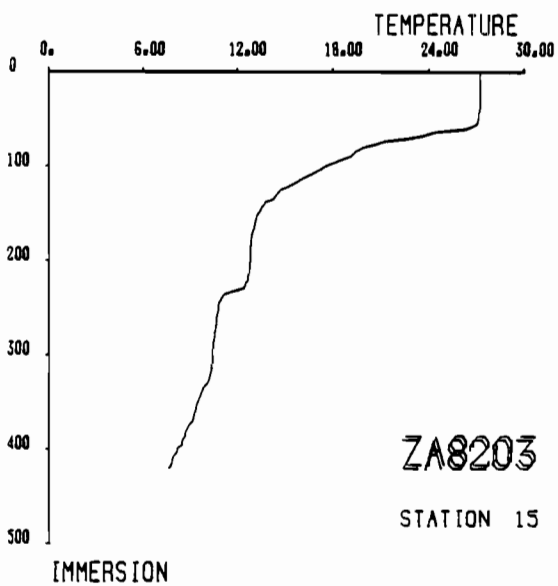
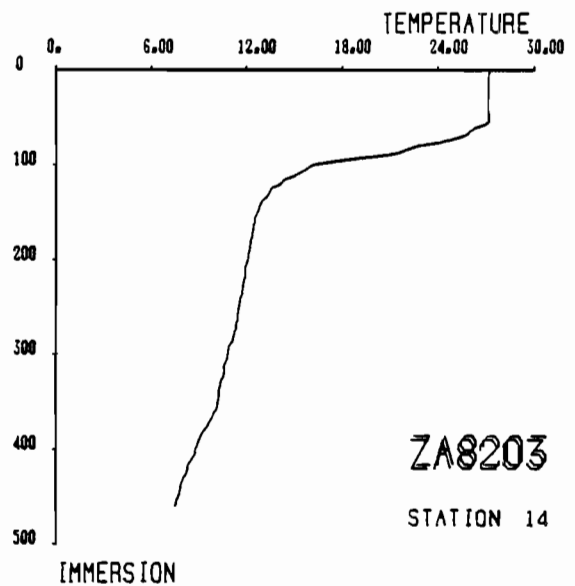
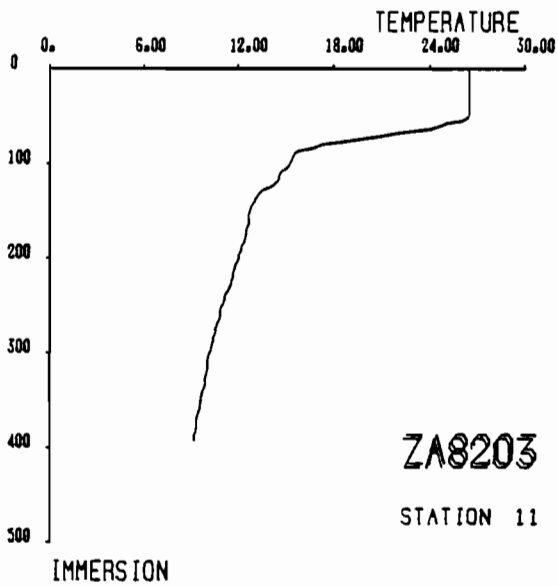
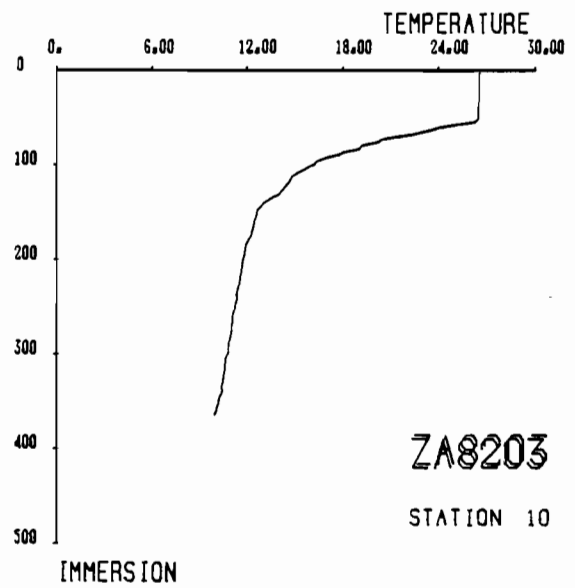
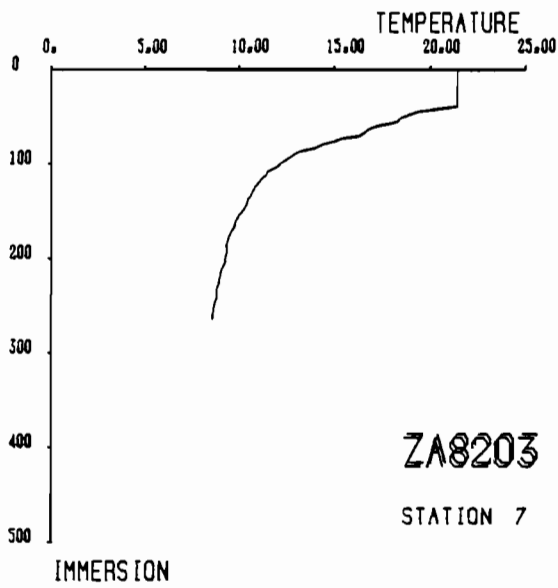


STATION 1	STATION 2	STATION 3
10/ 2/82 0H 0 Z	10/ 2/82 6H 0 Z	10/ 2/82 18H 0 Z
LAT 20 12'N	LAT 18 12'N	LAT 15 15'N
LONG 20 48'W	LONG 21 36'W	LONG 23 0'W
T 3M : 21.2 C	T 3M : 21.9 C	T 0M : 22.6 C
T100M : 17.4 C	T310M : 11.2 C	T377M : 12.1 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
21	50	21	71	22	54
20	79	20	76	21	59
19	90	19	79	20	65
18	96	18	86	19	78
		17	104	18	87
		16	120	17	114
		15	135	16	124
		14	159	15	156
		13	187	14	202
		12	255	13	284

STATION 4	STATION 5	STATION 6
11/ 2/82 0H 0 Z	11/ 2/82 6H 0 Z	11/ 2/82 12H 0 Z
LAT 13 38'N	LAT 12 0'N	LAT 10 18'N
LONG 23 46'W	LONG 24 35'W	LONG 25 24'W
T 3M : 23.2 C	T 3M : 23.5 C	T 3M : 20.6 C
T439M : 9.5 C	T258M : 11.3 C	T321M : 8.3 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
23	61	23	65	20	55
22	68	22	67	19	56
21	71	21	70	18	57
20	74	20	73	17	58
19	81	19	76	16	59
18	87	18	83	15	60
17	94	17	86	14	62
16	109	16	96	13	68
15	129	15	109	12	76
14	154	14	121	11	103
13	203	13	159	10	173
12	244	12	210	9	249
11	302				
10	366				



## STATION 7

11/ 2/82 18H 0 Z  
 LAT 8 39'N  
 LONG 26 13'W  
 T 3M : 21.4 C  
 T265M : 8.5 C

## STATION 10

12/ 2/82 1H30 Z  
 LAT 6 36'N  
 LONG 27 15'W  
 T 3M : 26.5 C  
 T365M : 9.9 C

## STATION 11

12/ 2/82 6H 0 Z  
 LAT 6 10'N  
 LONG 27 28'W  
 T 3M : 26.5 C  
 T393M : 9.1 C

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 TEMP PROF

21 40  
 20 43  
 19 46  
 18 56  
 17 61  
 16 71  
 15 76  
 14 82  
 13 88  
 12 101  
 11 119  
 10 152  
 9 213

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 TEMP PROF

26 55  
 25 58  
 24 61  
 23 65  
 22 68  
 21 71  
 20 77  
 19 82  
 18 86  
 17 92  
 16 100  
 15 109  
 14 129  
 13 140  
 12 181  
 11 271  
 10 360

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 TEMP PROF

26 54  
 25 58  
 24 63  
 23 65  
 22 67  
 21 70  
 20 73  
 19 76  
 18 78  
 17 81  
 16 85  
 15 104  
 14 125  
 13 138  
 12 196  
 11 248  
 10 309

## STATION 14

13/ 2/82 0H 0 Z  
 LAT 2 24'N  
 LONG 29 12'W  
 T 3M : 27.1 C  
 T461M : 7.4 C

## STATION 15

13/ 2/82 6H 0 Z  
 LAT 0 42'N  
 LONG 30 0'W  
 T 3M : 27.2 C  
 T421M : 7.5 C

## STATION 16

13/ 2/82 12H 0 Z  
 LAT 0 54'S  
 LONG 31 0'W  
 T 3M : 27.6 C  
 T427M : 7.7 C

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 TEMP PROF

27 56  
 26 63  
 25 72  
 24 76  
 23 79  
 22 83  
 21 89  
 20 91  
 19 93  
 18 95  
 17 97  
 16 100  
 15 110  
 14 121  
 13 137  
 12 204  
 11 288  
 10 359  
 9 387  
 8 429

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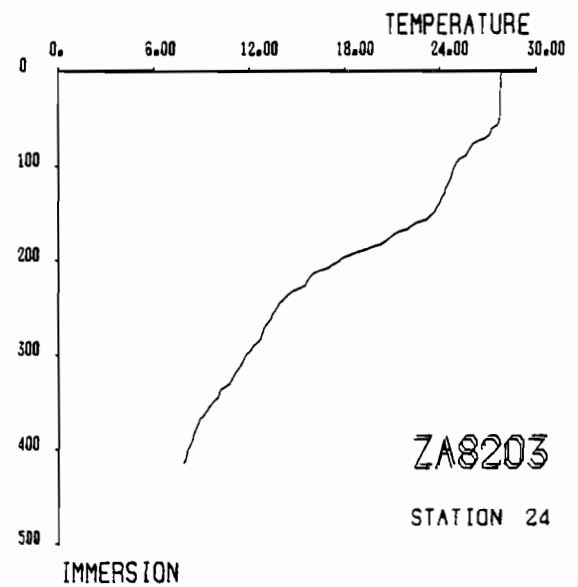
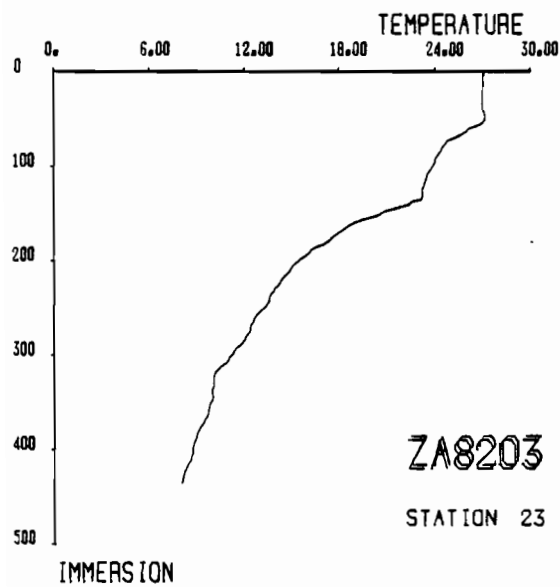
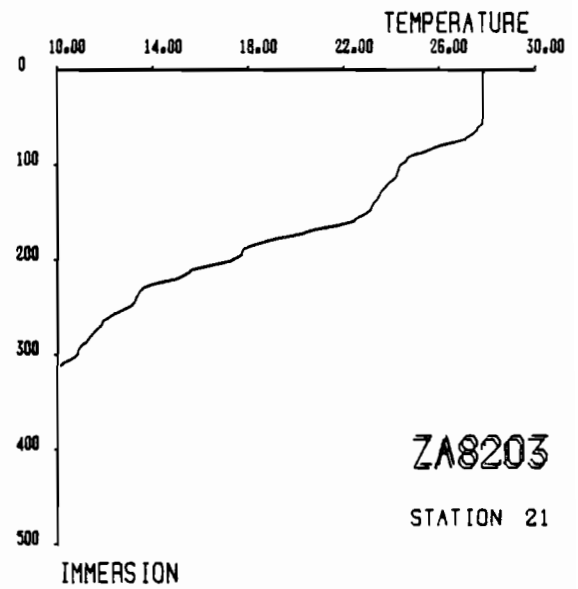
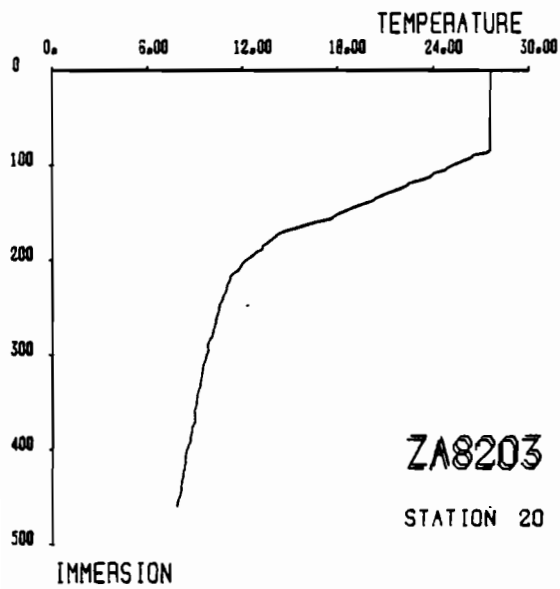
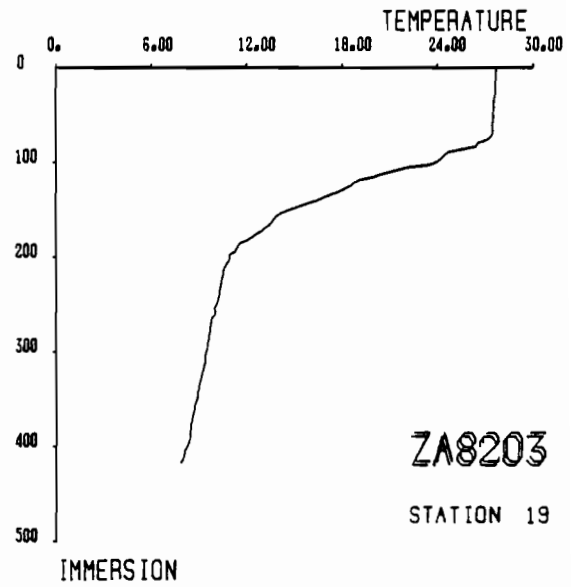
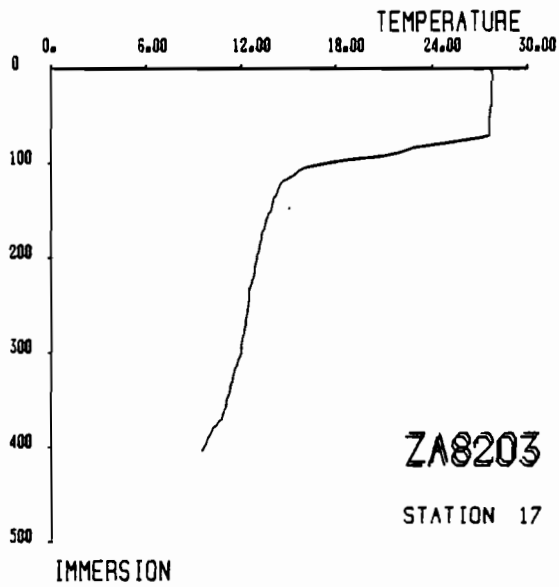
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 25 62  
 24 65  
 23 69  
 22 72  
 21 74  
 20 79  
 19 90  
 18 96  
 17 104  
 16 113  
 15 122  
 14 136  
 13 164  
 12 231  
 11 238  
 10 331  
 9 371  
 8 405

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 TEMP PROF

27 51  
 26 61  
 25 70  
 24 77  
 23 84  
 22 87  
 21 93  
 20 116  
 19 120  
 18 121  
 17 123  
 16 126  
 15 132  
 14 140  
 13 161  
 12 255  
 11 302  
 10 313  
 9 324  
 8 391





## STATION 17

13/ 2/82 18H 0 Z  
 LAT 2 37'S  
 LONG 31 45'W  
 T 3M : 27.8 C  
 T405M : 9.5 C

## STATION 19

14/ 2/82 0H20 Z  
 LAT 4 24'S  
 LONG 32 36'W  
 T 3M : 27.7 C  
 T418M : 7.8 C

## STATION 20

14/ 2/82 6H 0 Z  
 LAT 6 0'S  
 LONG 33 13'W  
 T 3M : 27.6 C  
 T461M : 7.8 C

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 TEMP PROF

27 74  
 26 76  
 25 78  
 24 81  
 23 83  
 22 88  
 21 92  
 20 94  
 19 96  
 18 98  
 17 101  
 16 105  
 15 115  
 14 136  
 13 195  
 12 288  
 11 357  
 10 387

TEMP PROF

27 77  
 26 85  
 25 88  
 24 98  
 23 103  
 22 106  
 21 110  
 20 115  
 19 118  
 18 129  
 17 135  
 16 142  
 15 148  
 14 155  
 13 171  
 12 182  
 11 196  
 10 250  
 9 331  
 8 408

TEMP PROF

27 88  
 26 94  
 25 101  
 24 108  
 23 116  
 22 123  
 21 130  
 20 139  
 19 144  
 18 151  
 17 158  
 16 162  
 15 167  
 14 174  
 13 190  
 12 203  
 11 230  
 10 282  
 9 356  
 8 449

## STATION 21

14/ 2/82 12H 0 Z  
 LAT 7 30'S  
 LONG 33 54'W  
 T 3M : 27.8 C  
 T312M : 10.1 C

## STATION 23

14/ 2/82 18H12 Z  
 LAT 9 12'S  
 LONG 34 38'W  
 T 3M : 27.1 C  
 T436M : 8.0 C

## STATION 24

15/ 2/82 0H 0 Z  
 LAT 10 37'S  
 LONG 35 16'W  
 T 3M : 27.8 C  
 T415M : 7.8 C

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 TEMP PROF

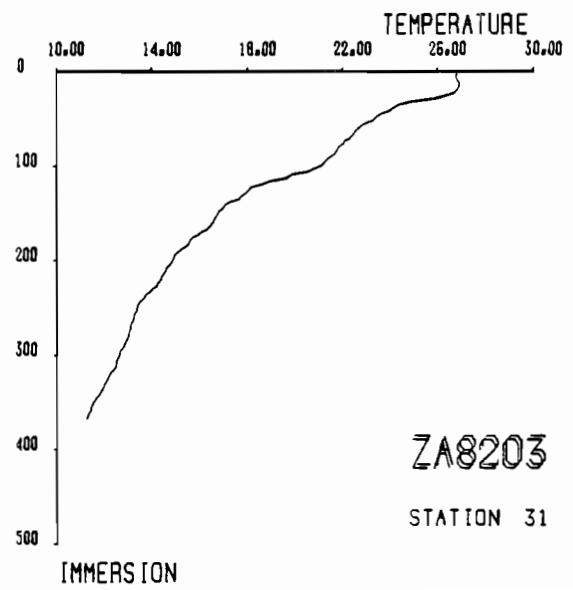
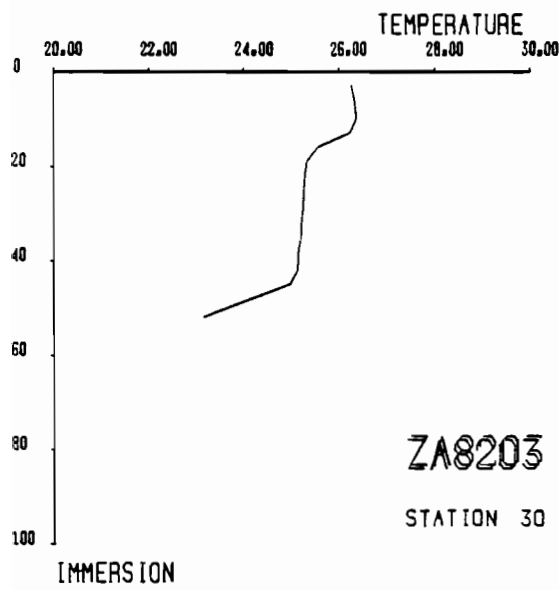
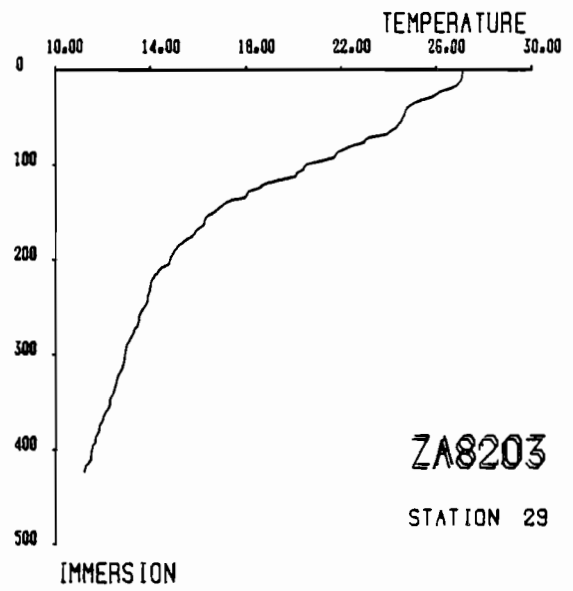
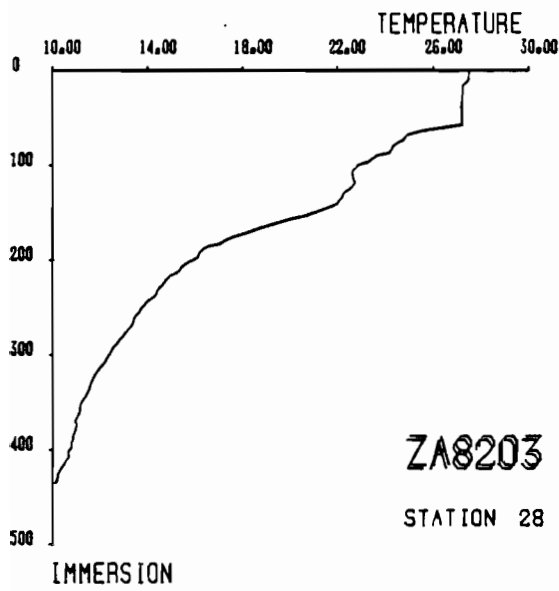
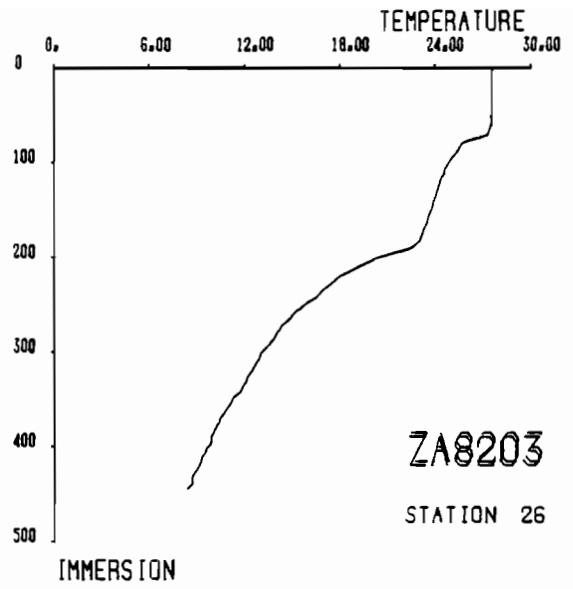
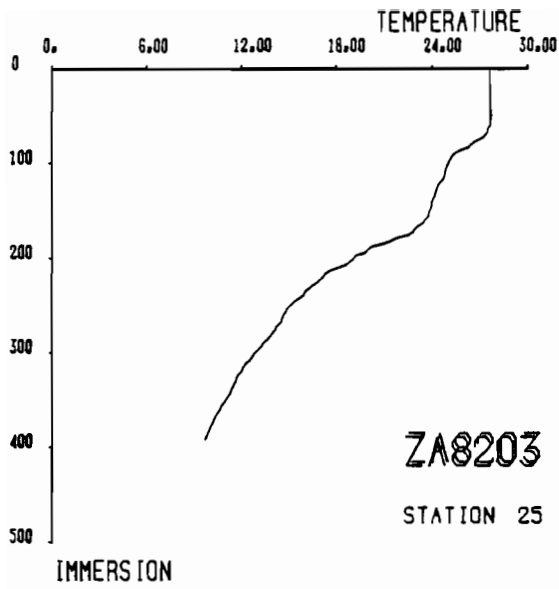
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 20 174  
 19 178  
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 15 219  
 14 225  
 13 250  
 12 263  
 11 291

TEMP PROF

27 21  
 26 62  
 25 71  
 24 92  
 23 135  
 22 142  
 21 147  
 20 154  
 19 159  
 18 170  
 17 182  
 16 192  
 15 205  
 14 227  
 13 253  
 12 283  
 11 306  
 10 337  
 9 386

TEMP PROF

27 68  
 26 78  
 25 97  
 24 138  
 23 157  
 22 165  
 21 173  
 20 184  
 19 190  
 18 196  
 17 207  
 16 214  
 15 230  
 14 243  
 13 268  
 12 296  
 11 322  
 10 346  
 9 365  
 8 406



## STATION 25

15/ 2/82 6H 0 Z  
 LAT 12 12'S  
 LONG 35 56'W  
 T 3M : 27.6 C  
 T393M : 9.7 C

## STATION 26

15/ 2/82 12H 0 Z  
 LAT 13 45'S  
 LONG 36 35'W  
 T 3M : 27.6 C  
 T445M : 8.3 C

## STATION 28

15/ 2/82 18H22 Z  
 LAT 15 27'S  
 LONG 37 15'W  
 T 3M : 27.5 C  
 T436M : 10.1 C

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 TEMP PROF

27 75  
 26 85  
 25 98  
 24 138  
 23 166  
 22 177  
 21 184  
 20 190  
 19 202  
 18 210  
 17 221  
 16 234  
 15 249  
 14 274  
 13 295  
 12 316  
 11 349  
 10 379

TEMP PROF

27 73  
 26 77  
 25 96  
 24 134  
 23 180  
 22 192  
 21 197  
 20 203  
 19 211  
 18 220  
 17 233  
 16 247  
 15 260  
 14 279  
 13 300  
 12 330  
 11 354  
 10 384  
 9 422

TEMP PROF

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 25 67  
 24 87  
 23 98  
 22 140  
 21 149  
 20 156  
 19 163  
 18 172  
 17 183  
 16 198  
 15 215  
 14 242  
 13 278  
 12 312  
 11 366

## STATION 29

16/ 2/82 0H 0 Z  
 LAT 16 50'S  
 LONG 37 53'W  
 T 3M : 27.1 C  
 T424M : 11.2 C

## STATION 30

16/ 2/82 6H 0 Z  
 LAT 18 27'S  
 LONG 38 37'W  
 T 3M : 26.3 C  
 T 52M : 23.1 C

## STATION 31

16/ 2/82 12H 0 Z  
 LAT 19 57'S  
 LONG 39 26'W  
 T 3M : 26.8 C  
 T368M : 11.3 C

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 TEMP PROF

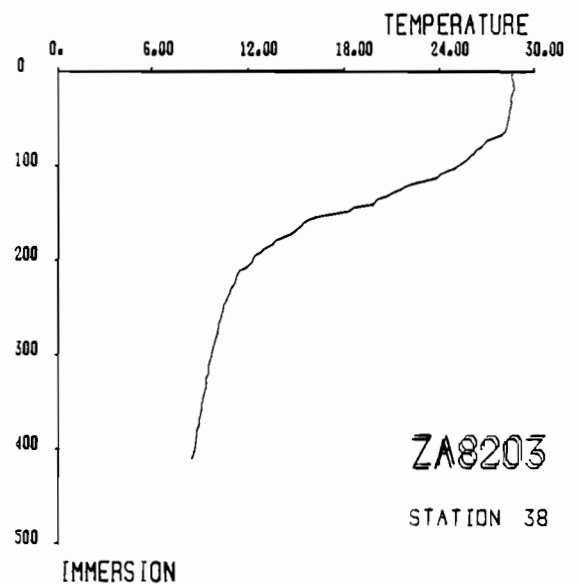
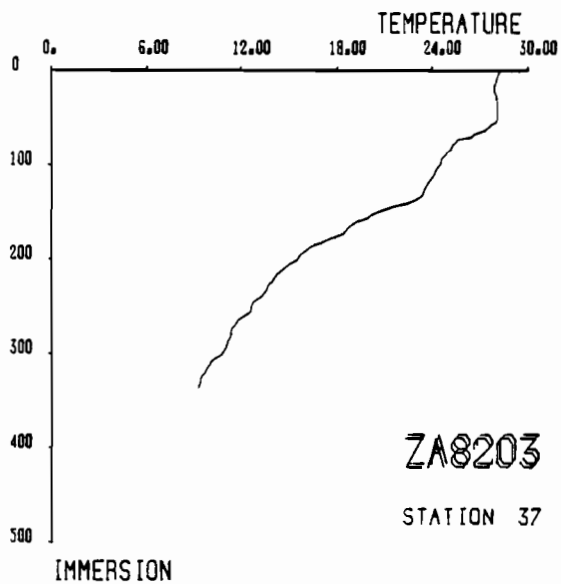
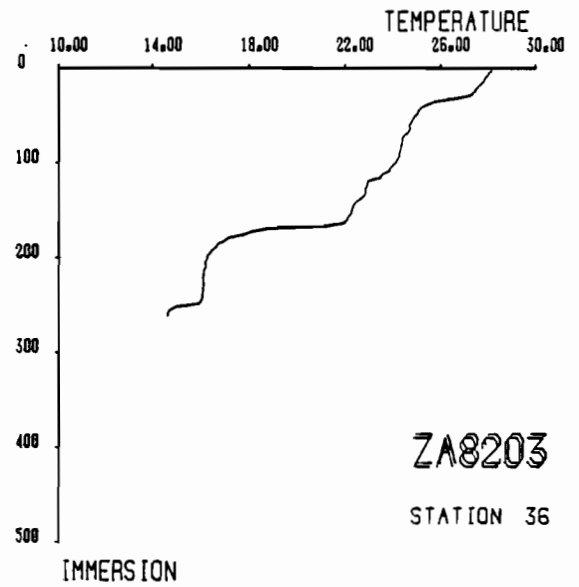
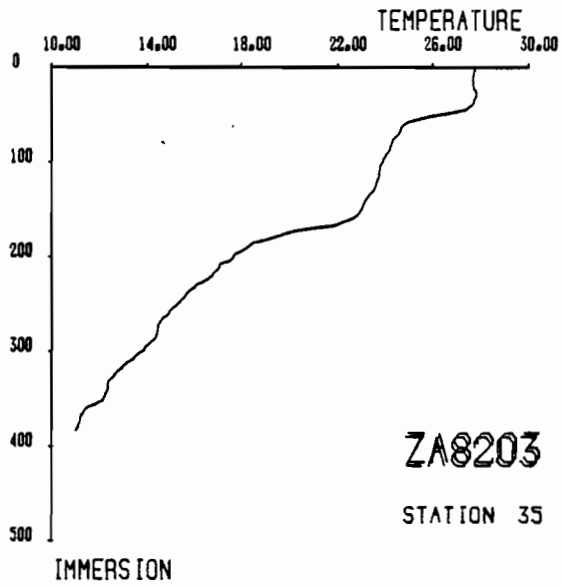
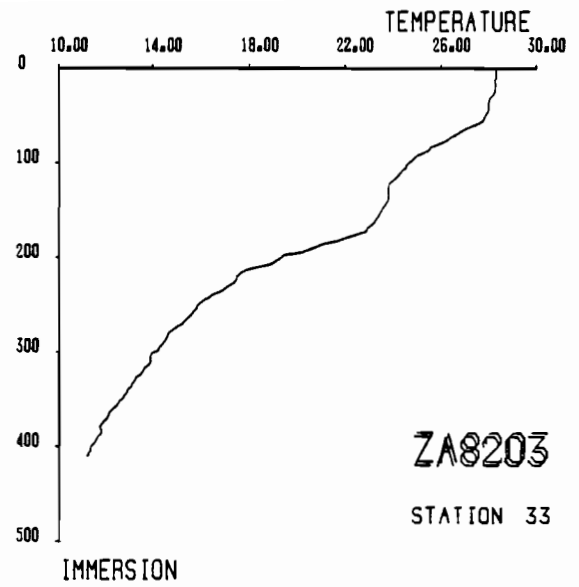
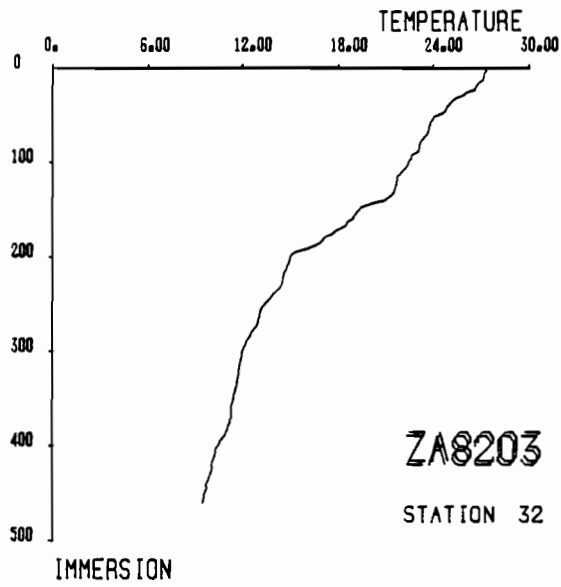
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 17 141  
 16 166  
 15 188  
 14 222  
 13 290  
 12 369

TEMP PROF

26 14  
 25 44  
 24 48

TEMP PROF

26 28  
 25 31  
 24 39  
 23 53  
 22 76  
 21 100  
 20 108  
 19 115  
 18 125  
 17 141  
 16 170  
 15 191  
 14 230  
 13 283  
 12 334



## STATION 32

15/ 3/82 17H45 Z  
 LAT 16 41'S  
 LONG 38 25'W  
 T 3M : 27.3 C  
 T461M : 9.5 C

## STATION 33

16/ 3/82 0H 0 Z  
 LAT 15 12'S  
 LONG 38 26'W  
 T 3M : 28.3 C  
 T411M : 11.2 C

## STATION 35

19/ 3/82 12H 0 Z  
 LAT 11 28'S  
 LONG 36 57'W  
 T 3M : 27.8 C  
 T384M : 11.0 C

-----  
 TEMP PROF

27 14  
 26 27  
 25 38  
 24 52  
 23 90  
 22 110  
 21 139  
 20 144  
 19 156  
 18 170  
 17 181  
 16 191  
 15 199  
 14 237  
 13 265  
 12 299  
 11 385  
 10 428

TEMP PROF

28 34  
 27 64  
 26 79  
 25 92  
 24 118  
 23 167  
 22 179  
 21 186  
 20 195  
 19 205  
 18 212  
 17 232  
 16 247  
 15 273  
 14 301  
 13 338  
 12 371

TEMP PROF

27 46  
 26 51  
 25 57  
 24 93  
 23 148  
 22 165  
 21 170  
 20 174  
 19 181  
 18 193  
 17 213  
 16 231  
 15 254  
 14 293  
 13 314  
 12 353  
 11 383

## STATION 36

19/ 3/82 18H 0 Z  
 LAT 10 12'S  
 LONG 35 51'W  
 T 3M : 28.1 C  
 T262M : 14.6 C

## STATION 37

20/ 3/82 6H 0 Z  
 LAT 7 11'S  
 LONG 34 7'W  
 T 3M : 28.2 C  
 T337M : 9.2 C

## STATION 38

20/ 3/82 12H 0 Z  
 LAT 5 36'S  
 LONG 33 24'W  
 T 3M : 28.6 C  
 T411M : 8.5 C

-----  
 TEMP PROF

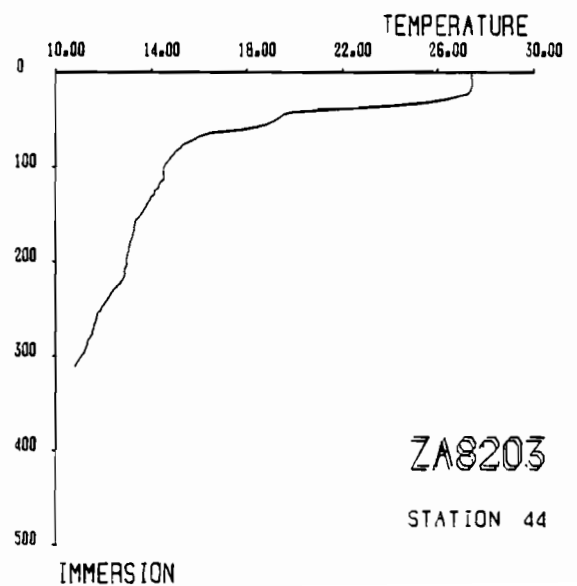
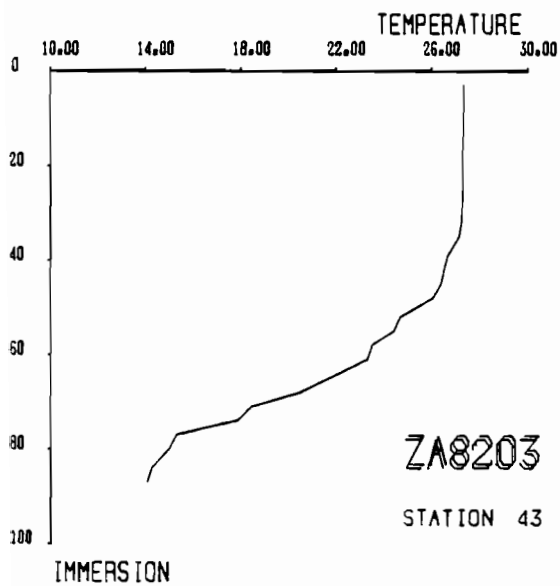
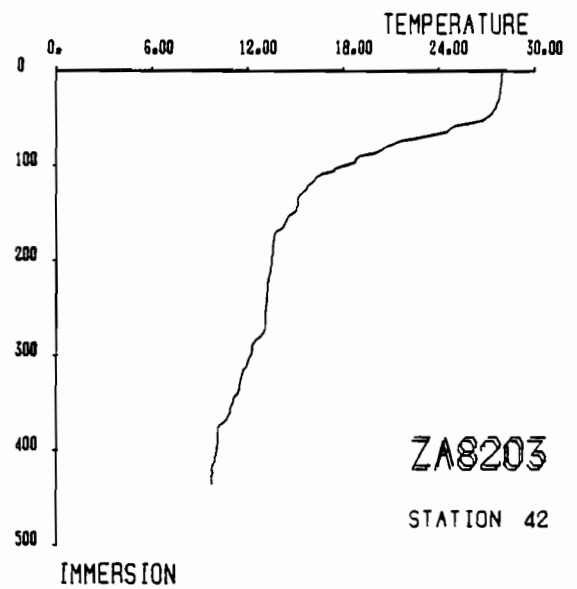
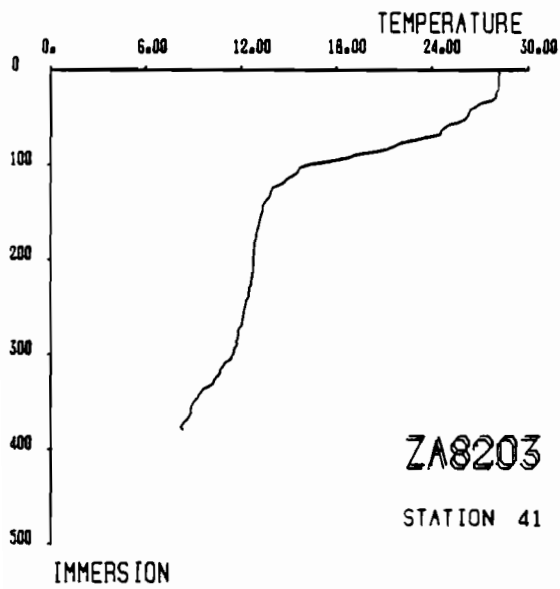
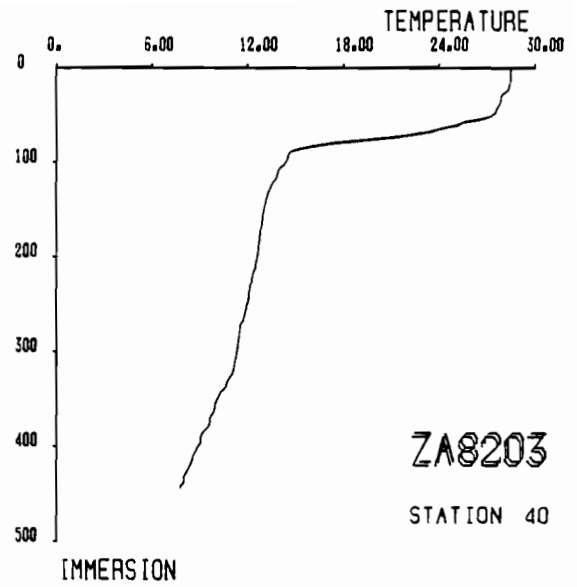
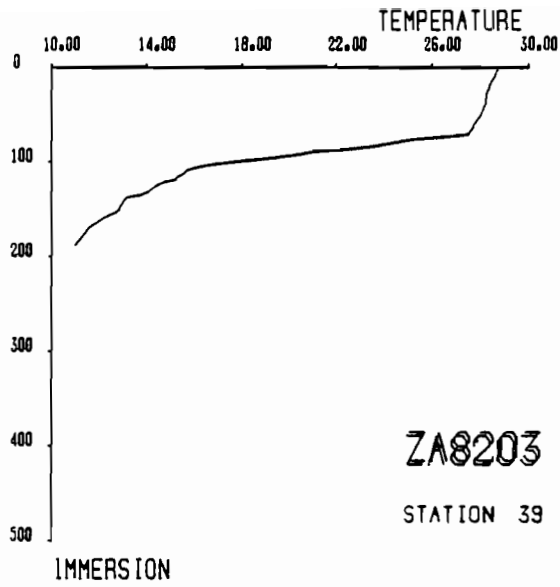
28 6  
 27 29  
 26 34  
 25 48  
 24 102  
 23 118  
 22 161  
 21 167  
 20 168  
 19 169  
 18 173  
 17 180  
 16 244  
 15 251

TEMP PROF

28 10  
 27 65  
 26 72  
 25 85  
 24 113  
 23 136  
 22 142  
 21 147  
 20 154  
 19 162  
 18 175  
 17 181  
 16 190  
 15 204  
 14 220  
 13 242  
 12 262  
 11 294  
 10 310

TEMP PROF

28 65  
 27 73  
 26 88  
 25 100  
 24 109  
 23 116  
 22 120  
 21 129  
 20 137  
 19 142  
 18 148  
 17 151  
 16 155  
 15 166  
 14 176  
 13 188  
 12 205  
 11 228  
 10 280  
 9 365



## STATION 39

20/ 3/82 18H 0 Z  
 LAT 4 4'S  
 LONG 32 41'W  
 T 3M : 28.7 C  
 T189M : 11.0 C

## STATION 40

21/ 3/82 0H 0 Z  
 LAT 2 39'S  
 LONG 31 48'W  
 T 3M : 28.4 C  
 T445M : 7.8 C

## STATION 41

21/ 3/82 6H 0 Z  
 LAT 1 6'S  
 LONG 31 3'W  
 T 3M : 28.2 C  
 T380M : 8.3 C

-----  
 TEMP PROF

28 51  
 27 72  
 26 75  
 25 77  
 24 81  
 23 85  
 22 87  
 21 90  
 20 93  
 19 96  
 18 99  
 17 102  
 16 107  
 15 120  
 14 132  
 13 141  
 12 162  
 11 188

TEMP PROF

28 27  
 27 52  
 26 56  
 25 61  
 24 64  
 23 68  
 22 71  
 21 74  
 20 75  
 19 77  
 18 78  
 17 80  
 16 83  
 15 86  
 14 105  
 13 145  
 12 246  
 11 323  
 10 353  
 9 397  
 8 432

TEMP PROF

28 26  
 27 35  
 26 52  
 25 58  
 24 69  
 23 73  
 22 76  
 21 84  
 20 87  
 19 90  
 18 95  
 17 98  
 16 101  
 15 113  
 14 124  
 13 165  
 12 264  
 11 308  
 10 333  
 9 350

## STATION 42

21/ 3/82 12H 0 Z  
 LAT 0 22'S  
 LONG 30 8'W  
 T 3M : 27.9 C  
 T436M : 9.7 C

## STATION 43

21/ 3/82 18H 0 Z  
 LAT 1 56'N  
 LONG 29 18'W  
 T 3M : 27.3 C  
 T 87M : 14.0 C

## STATION 44

22/ 3/82 0H 0 Z  
 LAT 3 24'N  
 LONG 28 36'W  
 T 3M : 27.4 C  
 T312M : 10.8 C

-----  
 TEMP PROF

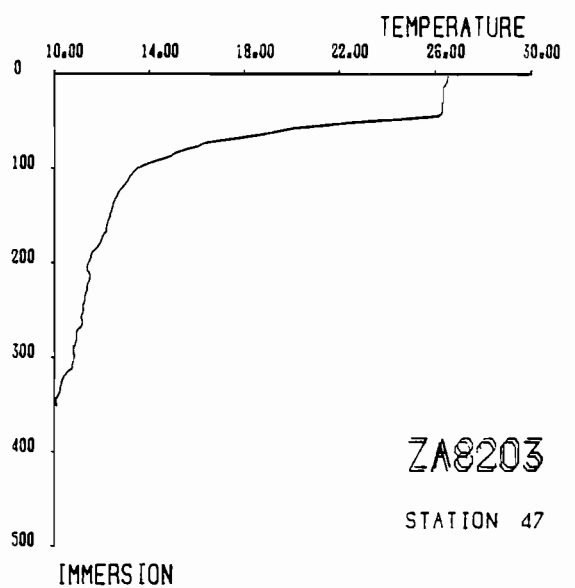
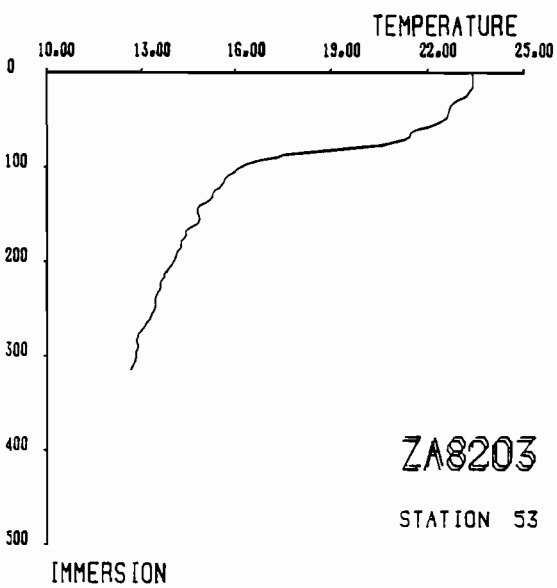
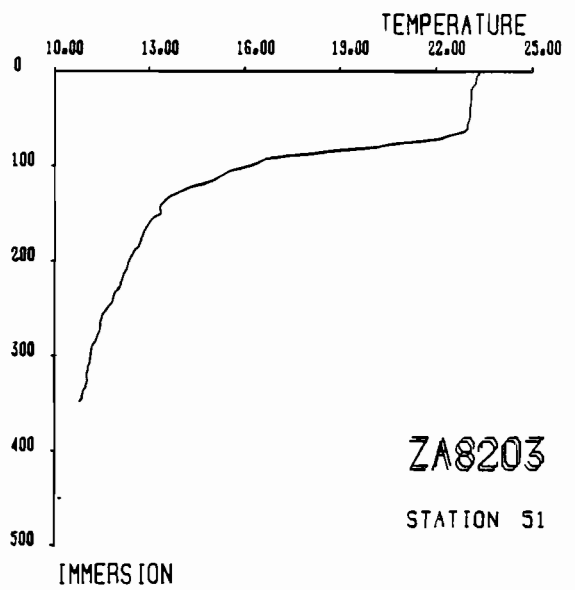
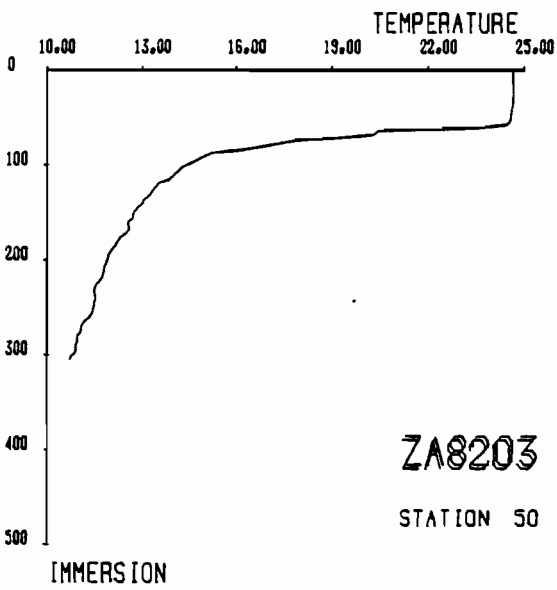
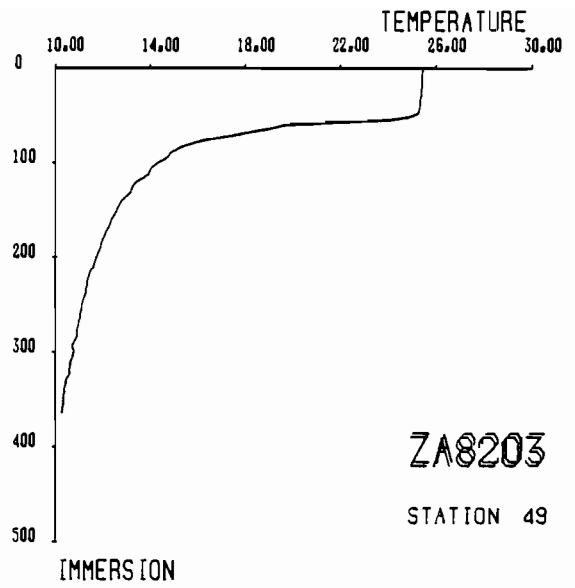
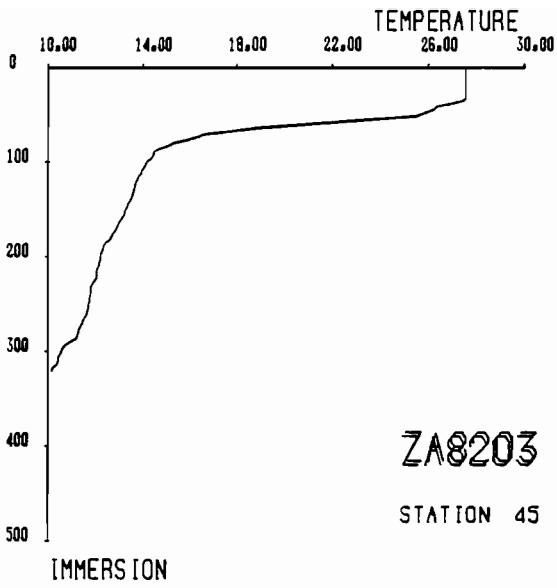
27 48  
 26 54  
 25 58  
 24 65  
 23 69  
 22 72  
 21 77  
 20 86  
 19 90  
 18 99  
 17 107  
 16 117  
 15 146  
 14 167  
 13 274  
 12 306  
 11 351  
 10 405

TEMP PROF

27 36  
 26 48  
 25 50  
 24 56  
 23 61  
 22 64  
 21 66  
 20 68  
 19 70  
 18 73  
 17 74  
 16 76  
 15 79

TEMP PROF

27 24  
 26 29  
 25 32  
 24 35  
 23 36  
 22 38  
 21 39  
 20 41  
 19 52  
 18 59  
 17 62  
 16 67  
 15 83  
 14 130  
 13 189  
 12 245  
 11 303





## STATION 45

22/ 3/82 6H 0 Z  
 LAT 4 56'N  
 LONG 27 50'W  
 T 3M : 27.5 C  
 T321M : 10.2 C

## STATION 49

23/ 3/82 0H 0 Z  
 LAT 9 50'N  
 LONG 25 35'W  
 T 3M : 25.4 C  
 T365M : 10.2 C

## STATION 50

23/ 3/82 6H 0 Z  
 LAT 11 23'N  
 LONG 24 48'W  
 T 0M : 24.7 C  
 T306M : 10.7 C

-----

TEMP	PROF
27	37
26	46
25	52
24	54
23	56
22	58
21	60
20	62
19	63
18	66
17	69
16	76
15	83
14	105
13	163
12	224
11	289

TEMP	PROF
25	50
24	54
23	56
22	57
21	59
20	60
19	64
18	68
17	73
16	77
15	87
14	106
13	134
12	179
11	265

TEMP	PROF
24	59
23	61
22	62
21	63
20	68
19	71
18	73
17	78
16	84
15	90
14	110
13	137
12	191
11	279

## STATION 51

23/ 3/82 12H 0 Z  
 LAT 13 0'N  
 LONG 24 3'W  
 T 3M : 23.3 C  
 T349M : 10.8 C

## STATION 53

24/ 3/82 0H 0 Z  
 LAT 16 14'N  
 LONG 22 25'W  
 T 0M : 23.4 C  
 T315M : 12.6 C

## STATION 47

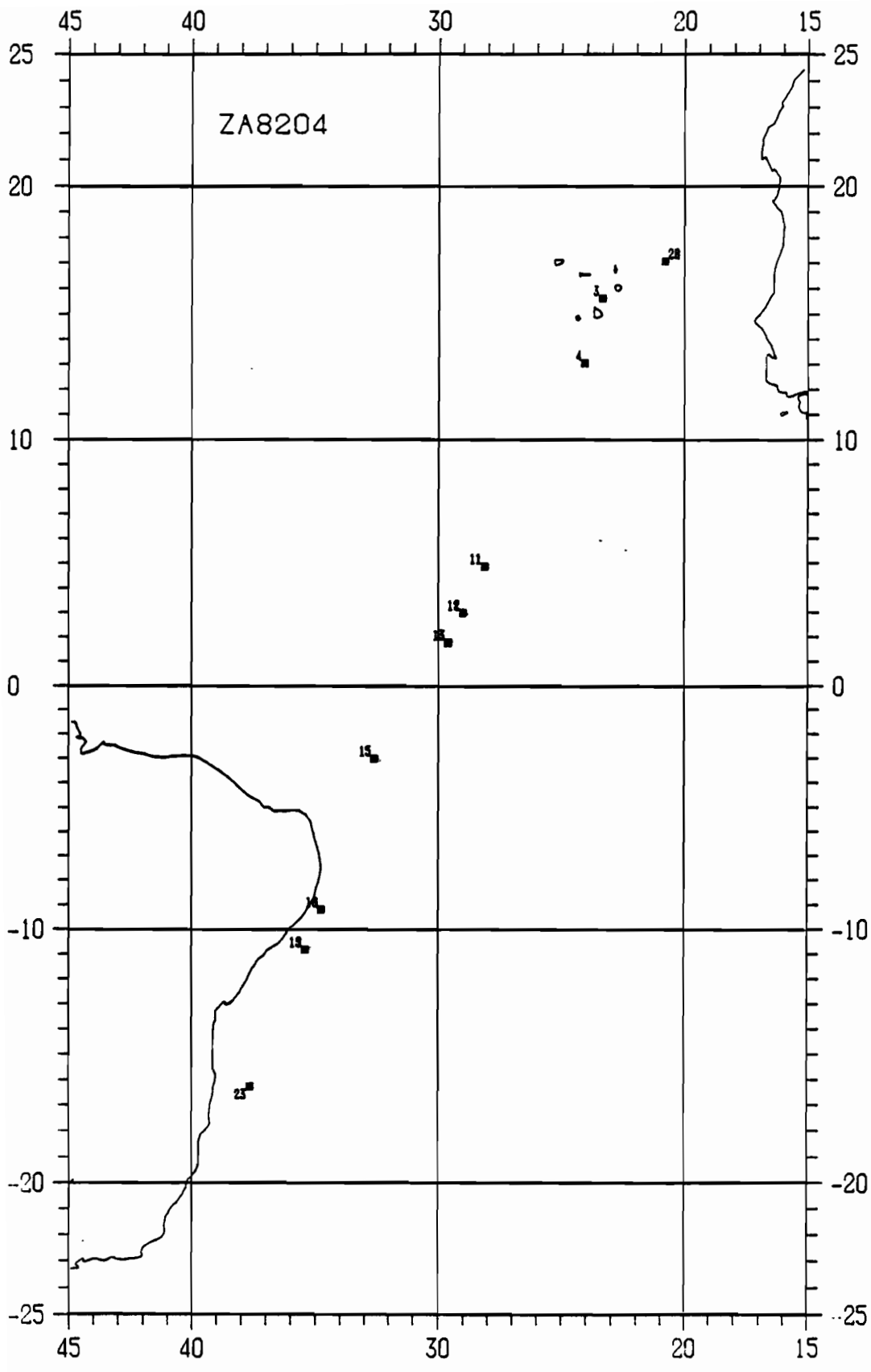
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 LAT 8 13'N  
 LONG 26 21'W  
 T 3M : 26.5 C  
 T352M : 10.1 C

-----

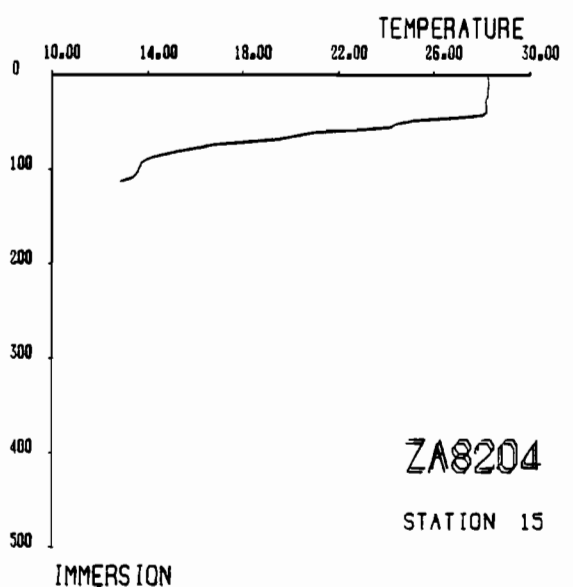
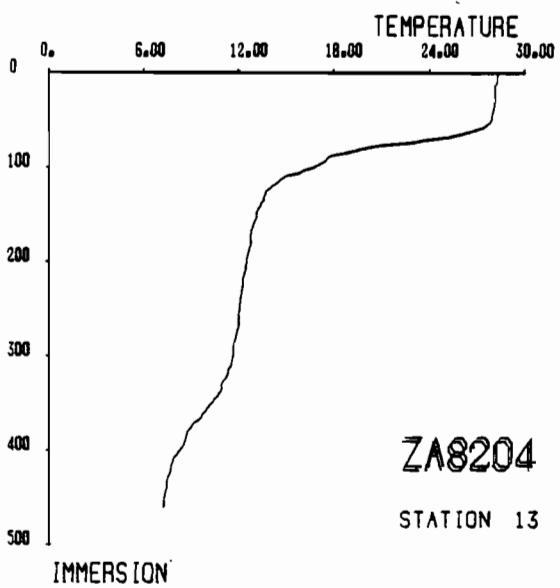
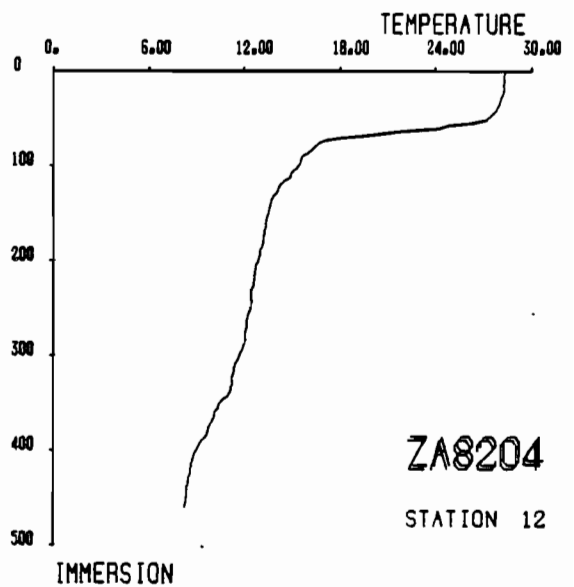
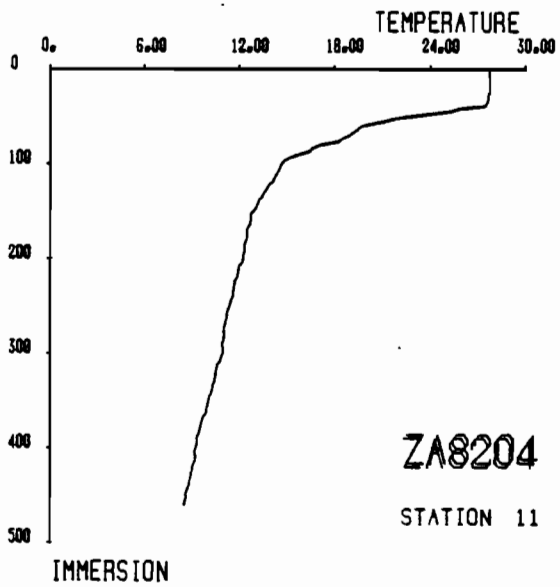
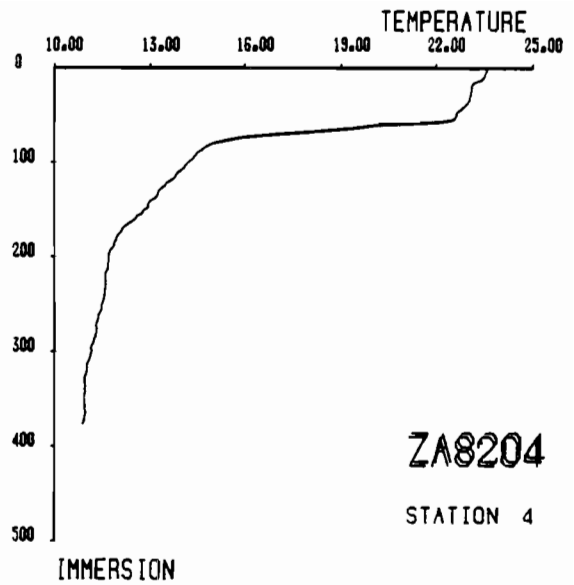
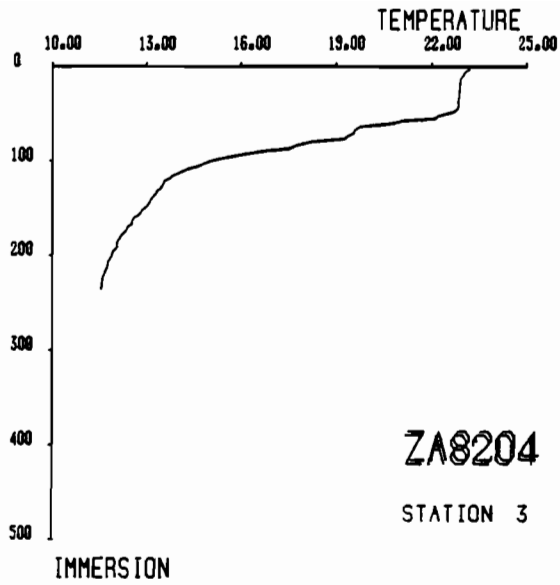
TEMP	PROF
23	52
22	71
21	75
20	80
19	83
18	87
17	91
16	100
15	114
14	126
13	158
12	229
11	319

TEMP	PROF
23	28
22	57
21	73
20	78
19	82
18	85
17	91
16	102
15	138
14	200
13	271

TEMP	PROF
26	45
25	47
24	49
23	50
22	52
21	55
20	58
19	62
18	66
17	70
16	77
15	84
14	94
13	115
12	174
11	270







## STATION 3

2/ 5/82 18H 0 Z  
 LAT 15 37'N  
 LONG 23 24'W  
 T 3M : 23.2 C  
 T236M : 11.5 C

## STATION 4

3/ 5/82 0H 0 Z  
 LAT 13 3'N  
 LONG 24 6'W  
 T 3M : 23.5 C  
 T377M : 10.9 C

## STATION 11

4/ 5/82 6H10 Z  
 LAT 4 51'N  
 LONG 28 8'W  
 T 3M : 27.8 C  
 T461M : 8.5 C

-----

TEMP	PROF
23	8
22	55
21	58
20	63
19	77
18	81
17	88
16	93
15	100
14	113
13	147
12	193

-----

TEMP	PROF
23	35
22	58
21	59
20	61
19	64
18	67
17	70
16	73
15	79
14	106
13	140
12	176
11	324

-----

TEMP	PROF
27	39
26	41
25	45
24	47
23	49
22	51
21	55
20	59
19	68
18	77
17	80
16	89
15	94
14	119
13	146
12	207
11	277
10	351
9	419

## STATION 12

4/ 5/82 12H10 Z  
 LAT 2 58'N  
 LONG 29 2'W  
 T 0M : 28.3 C  
 T461M : 8.2 C

## STATION 13

4/ 5/82 18H10 Z  
 LAT 1 45'N  
 LONG 29 38'W  
 T 3M : 28.3 C  
 T461M : 7.2 C

## STATION 15

5/ 5/82 12H15 Z  
 LAT 3 0'S  
 LONG 32 36'W  
 T 3M : 28.2 C  
 T113M : 12.9 C

-----

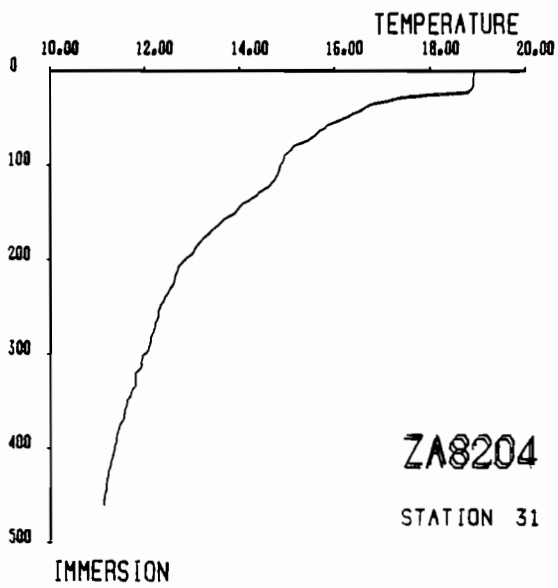
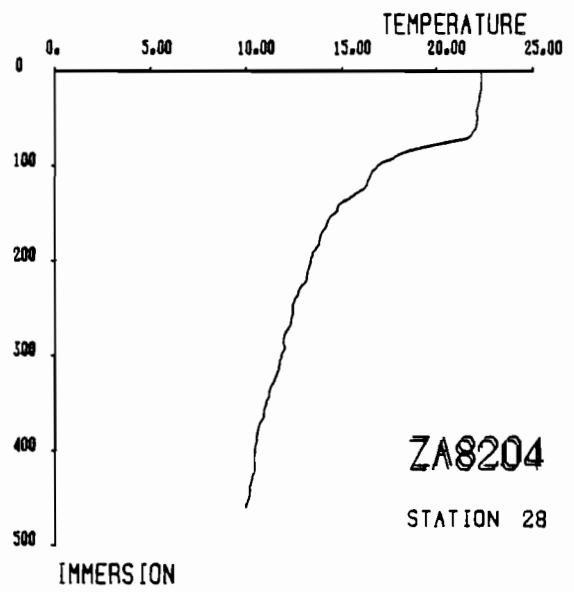
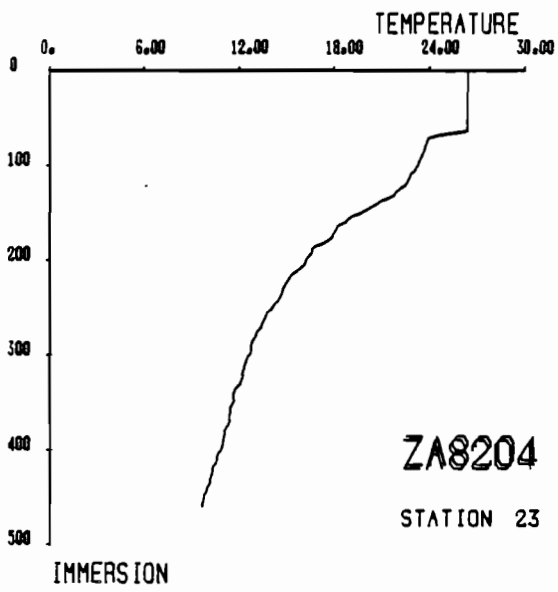
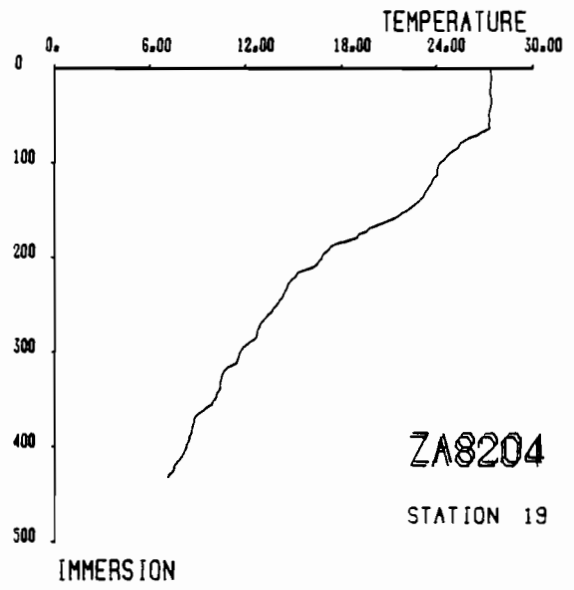
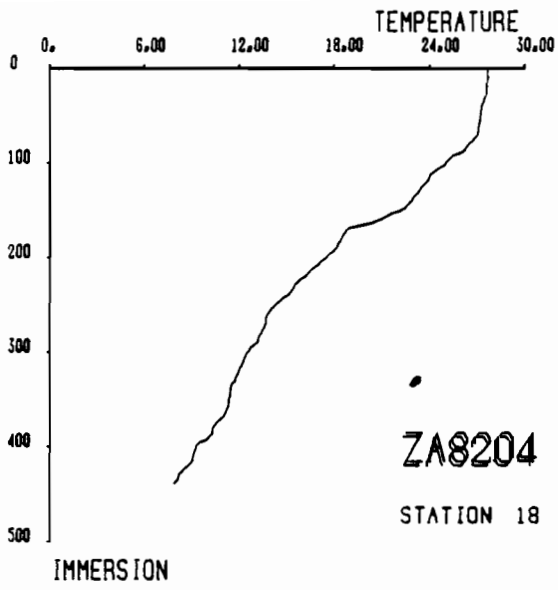
TEMP	PROF
28	33
27	52
26	55
25	57
24	61
23	62
22	63
21	65
20	67
19	69
18	70
17	73
16	85
15	106
14	129
13	189
12	285
11	341
10	367
9	398

-----

TEMP	PROF
28	42
27	59
26	64
25	68
24	70
23	73
22	75
21	76
20	79
19	83
18	86
17	97
16	103
15	108
14	120
13	157
12	262
11	326
10	355
9	374
8	405

-----

TEMP	PROF
28	42
27	45
26	46
25	48
24	55
23	58
22	59
21	60
20	65
19	68
18	70
17	73
16	77
15	82
14	88
13	111



## STATION 18

6/ 5/82 12H10 Z  
 LAT 9 12'S  
 LONG 34 47'W  
 T 3M : 27.6 C  
 T439M : 7.9 C

## STATION 19

6/ 5/82 18H 0 Z  
 LAT 10 50'S  
 LONG 35 26'W  
 T 3M : 27.4 C  
 T433M : 7.1 C

## STATION 23

7/ 5/82 12H50 Z  
 LAT 16 15'S  
 LONG 37 40'W  
 T 3M : 26.4 C  
 T461M : 9.6 C

-----  
 TEMP PROF

27 69  
 26 88  
 25 99  
 24 112  
 23 135  
 22 151  
 21 158  
 20 164  
 19 169  
 18 192  
 17 206  
 16 221  
 15 240  
 14 253  
 13 291  
 12 316  
 11 367  
 10 391  
 9 415  
 8 436

TEMP PROF

27 66  
 26 74  
 25 88  
 24 113  
 23 138  
 22 151  
 21 160  
 20 167  
 19 175  
 18 183  
 17 194  
 16 211  
 15 222  
 14 249  
 13 267  
 12 292  
 11 314  
 10 350  
 9 365  
 8 408

TEMP PROF

26 64  
 25 66  
 24 70  
 23 105  
 22 125  
 21 137  
 20 146  
 19 155  
 18 169  
 17 183  
 16 205  
 15 221  
 14 250  
 13 278  
 12 330  
 11 385  
 10 439

## STATION 28

14/ 6/82 12H 0 Z  
 LAT 17 5'N  
 LONG 20 50'W  
 T 3M : 22.4 C  
 T461M : 9.9 C

## STATION 31

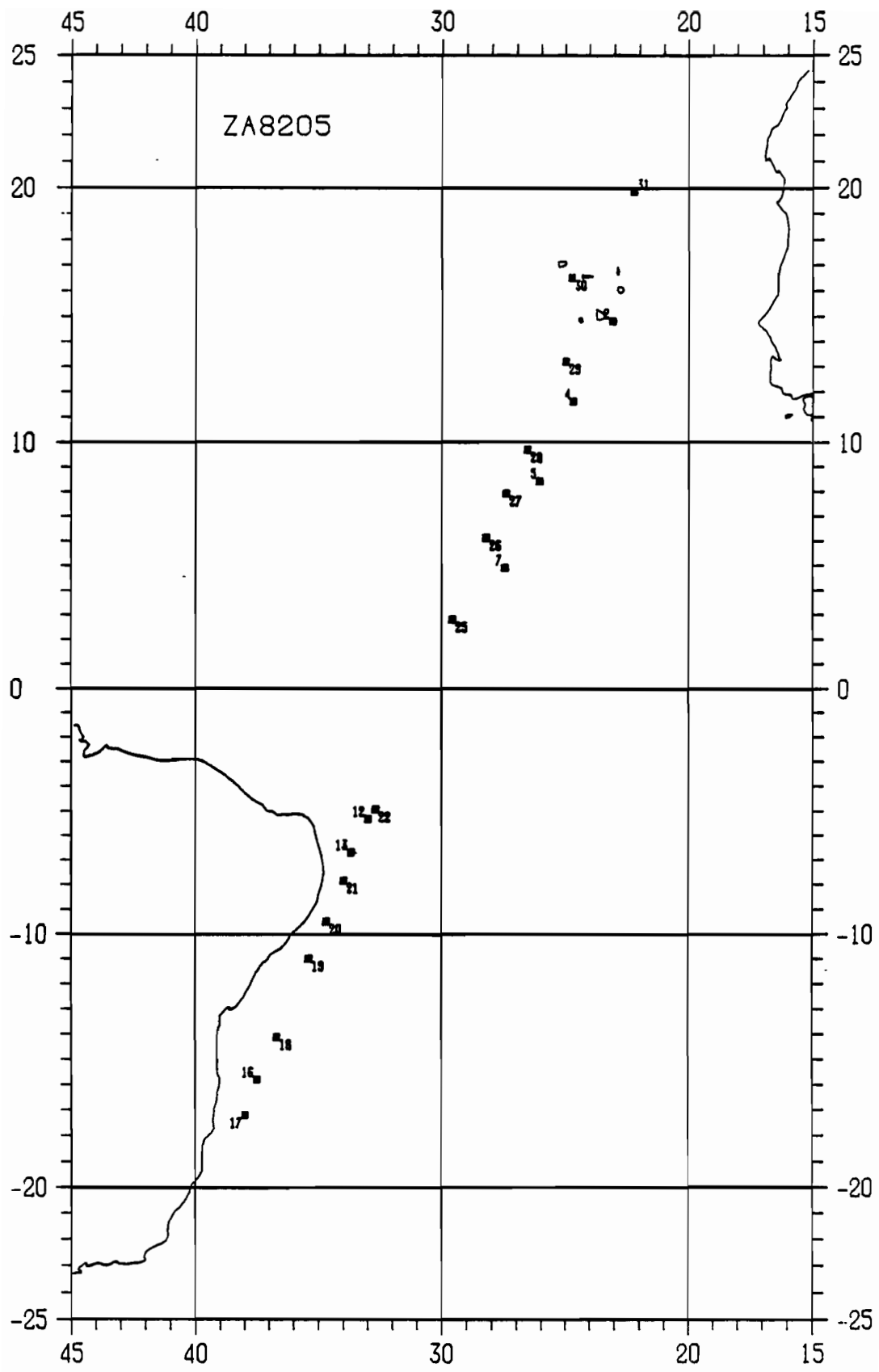
20/ 6/82 6H 0 Z  
 LAT 38 38'N  
 LONG 11 46'W  
 T 3M : 18.9 C  
 T461M : 11.1 C

-----  
 TEMP PROF

22 61  
 21 73  
 20 77  
 19 81  
 18 87  
 17 97  
 16 125  
 15 138  
 14 168  
 13 224  
 12 280  
 11 354  
 10 457

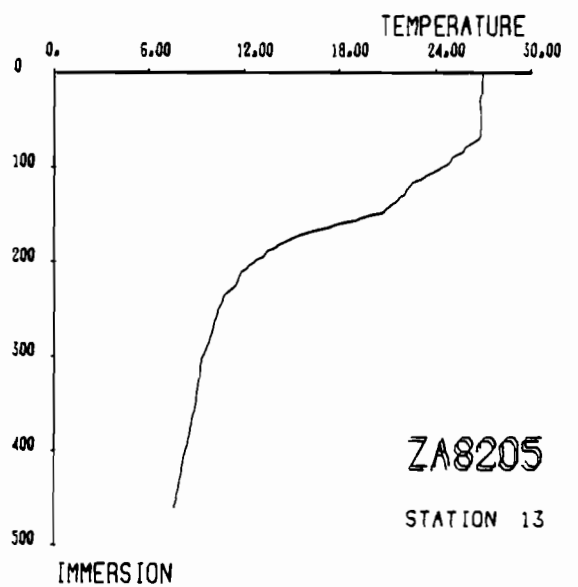
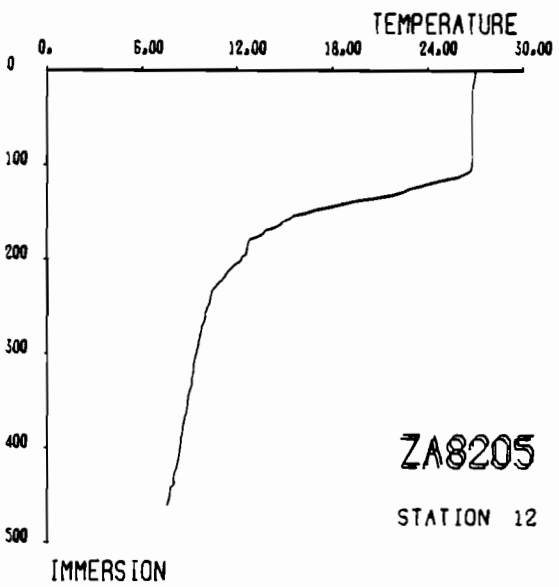
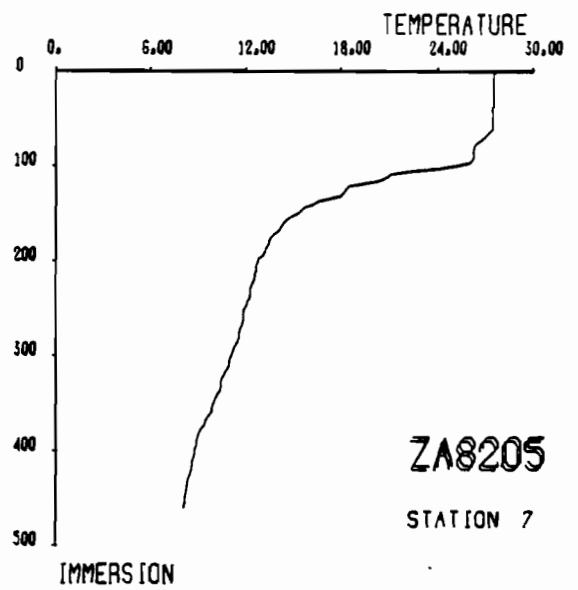
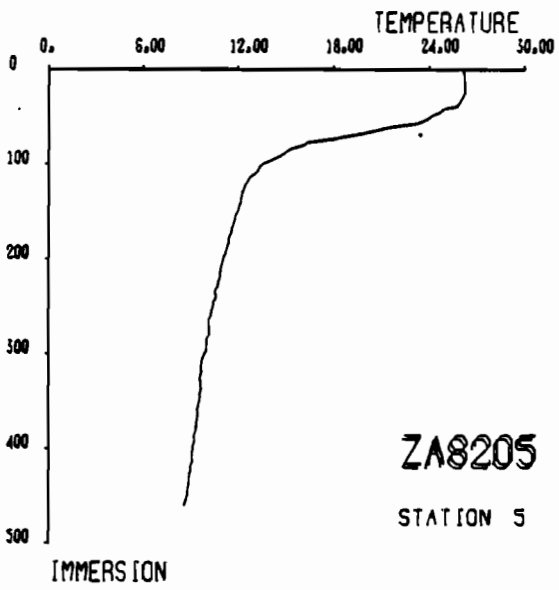
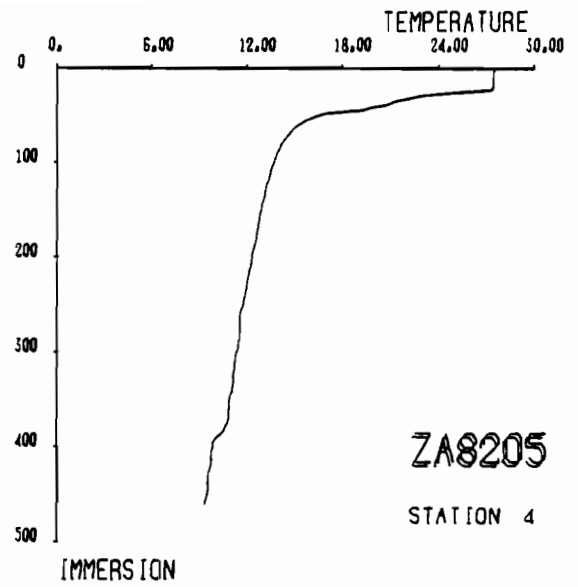
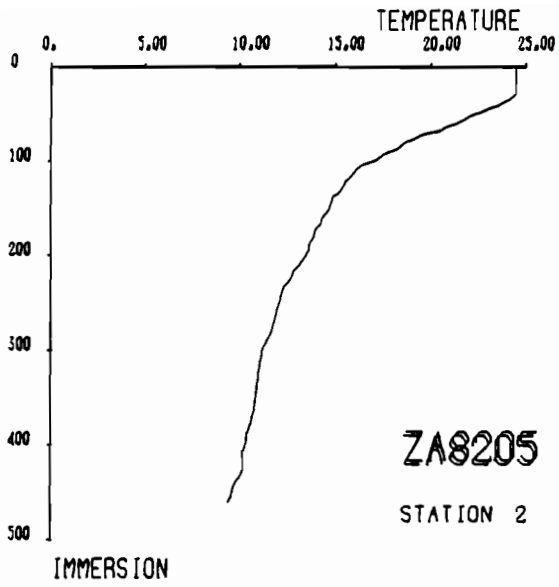
TEMP PROF

18 25  
 17 32  
 16 54  
 15 86  
 14 142  
 13 193  
 12 299









STATION 2	STATION 4	STATION 5
16/ 7/82 12H10 Z	17/ 7/82 0H 0 Z	17/ 7/82 12H 0 Z
LAT 14 49'N	LAT 11 36'N	LAT 8 24'N
LONG 23 6'W	LONG 24 42'W	LONG 26 6'W
T 3M : 24.5 C	T 3M : 27.5 C	T 3M : 26.1 C
T461M : 9.4 C	T461M : 9.3 C	T461M : 8.6 C

-----

TEMP	PROF
------	------

24	35
23	44
22	52
21	62
20	69
19	77
18	89
17	100
16	111
15	135
14	170
13	211
12	249
11	311
10	433

-----

TEMP	PROF
------	------

27	23
26	24
25	26
24	27
23	29
22	32
21	36
20	41
19	45
18	46
17	47
16	53
15	63
14	85
13	141
12	226
11	341
10	391

-----

TEMP	PROF
------	------

26	31
25	41
24	50
23	57
22	60
21	62
20	66
19	69
18	73
17	75
16	80
15	86
14	96
13	110
12	149
11	203
10	293
9	419

STATION 7	STATION 12	STATION 13
17/ 7/82 24H 0 Z	19/ 7/82 18H 0 Z	19/ 7/82 24H 0 Z
LAT 4 55'N	LAT 5 20'S	LAT 6 42'S
LONG 27 30'W	LONG 33 0'W	LONG 33 42'W
T 3M : 27.5 C	T 3M : 26.9 C	T 3M : 26.9 C
T461M : 8.0 C	T461M : 7.6 C	T461M : 7.5 C

-----

TEMP	PROF
------	------

27	68
26	97
25	100
24	102
23	104
22	106
21	109
20	116
19	119
18	131
17	135
16	142
15	152
14	169
13	195
12	247
11	301
10	345
9	381

-----

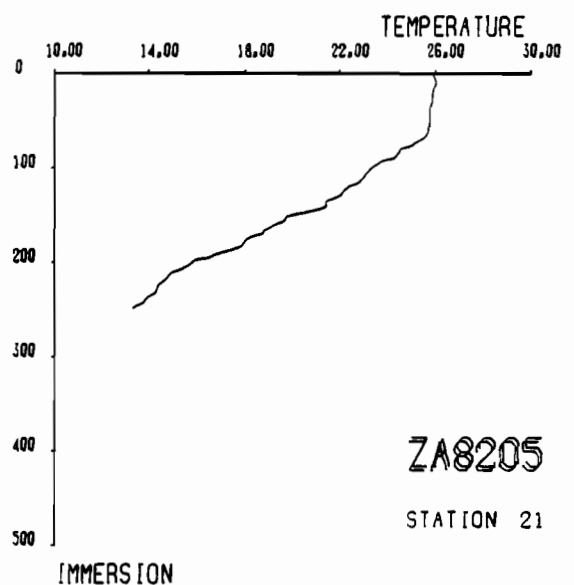
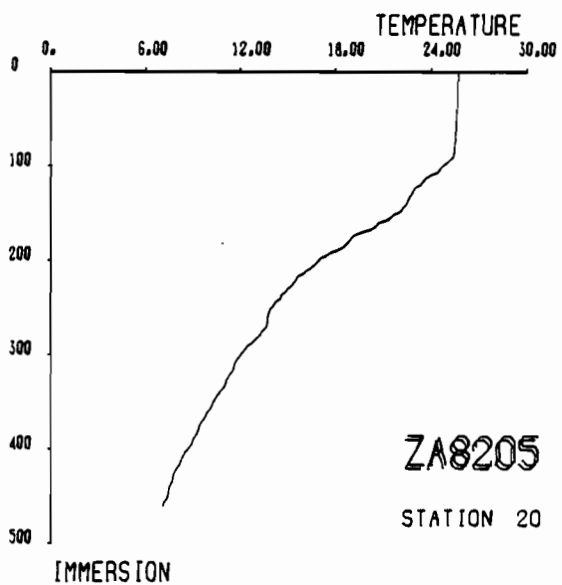
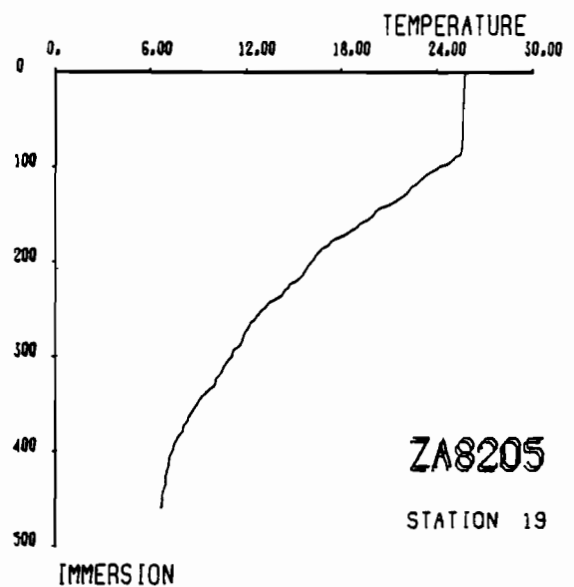
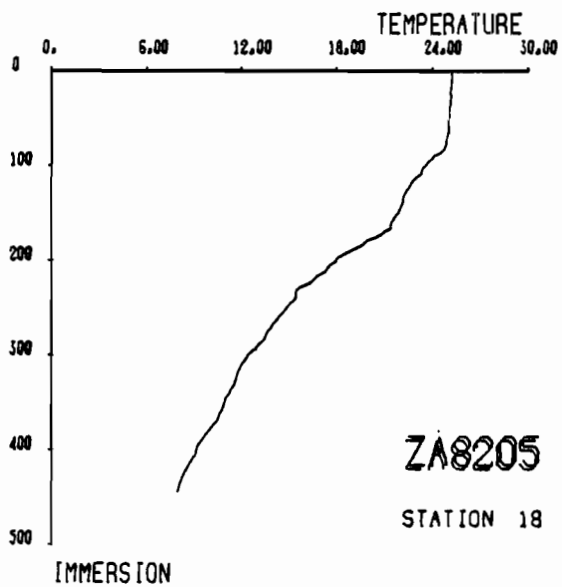
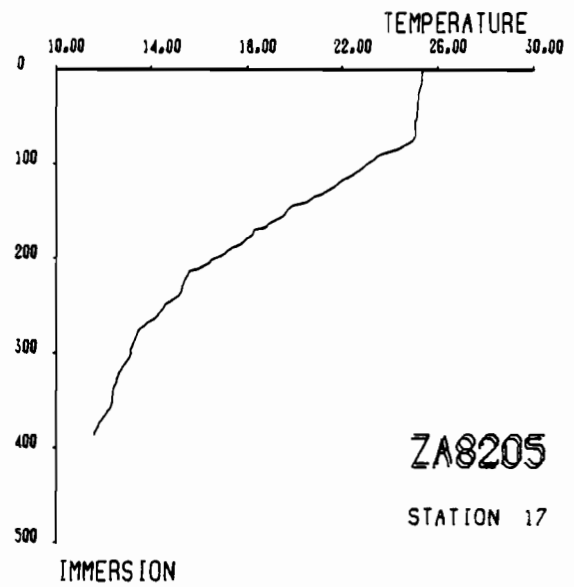
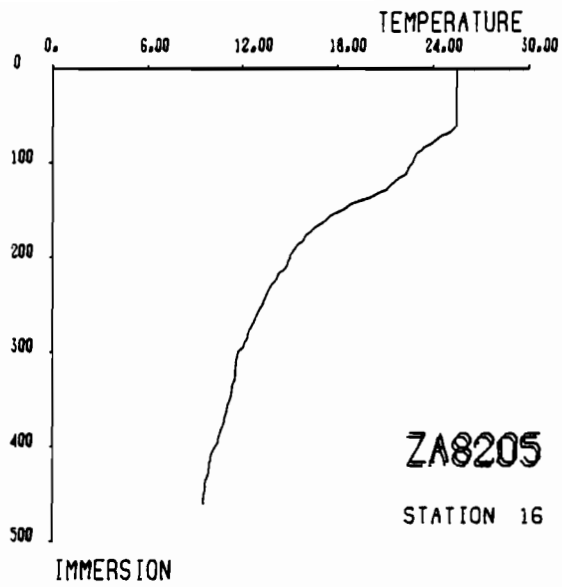
TEMP	PROF
------	------

26	111
25	115
24	119
23	124
22	130
21	133
20	136
19	140
18	143
17	147
16	152
15	158
14	168
13	177
12	204
11	222
10	258
9	342
8	430

-----

TEMP	PROF
------	------

26	77
25	89
24	103
23	113
22	129
21	142
20	150
19	156
18	159
17	165
16	169
15	175
14	185
13	196
12	208
11	231
10	269
9	336
8	424



## STATION 16

21/ 7/82 12H 0 Z  
 LAT 15 48'S  
 LONG 37 30'W  
 T 3M : 25.5 C  
 T461M : 9.5 C

## STATION 17

22/ 8/82 24H 0 Z  
 LAT 17 12'S  
 LONG 38 0'W  
 T 3M : 25.3 C  
 T387M : 11.6 C

## STATION 18

23/ 8/82 12H 0 Z  
 LAT 14 7'S  
 LONG 36 42'W  
 T 3M : 25.2 C  
 T445M : 7.9 C

-----  
 TEMP PROF

25 67  
 24 77  
 23 88  
 22 114  
 21 129  
 20 136  
 19 142  
 18 152  
 17 163  
 16 175  
 15 195  
 14 224  
 13 254  
 12 296  
 11 361  
 10 411

TEMP PROF

25 72  
 24 86  
 23 100  
 22 116  
 21 133  
 20 143  
 19 161  
 18 178  
 17 195  
 16 209  
 15 241  
 14 265  
 13 309  
 12 369

TEMP PROF

25 52  
 24 91  
 23 112  
 22 143  
 21 169  
 20 178  
 19 189  
 18 198  
 17 214  
 16 225  
 15 244  
 14 265  
 13 288  
 12 310  
 11 345  
 10 378  
 9 407  
 8 439

## STATION 19

23/ 8/82 24H 0 Z  
 LAT 11 0'S  
 LONG 35 24'W  
 T 3M : 25.8 C  
 T461M : 6.7 C

## STATION 20

24/ 8/82 6H 0 Z  
 LAT 9 30'S  
 LONG 34 43'W  
 T 3M : 25.7 C  
 T461M : 7.0 C

## STATION 21

24/ 8/82 12H 0 Z  
 LAT 7 50'S  
 LONG 34 0'W  
 T 3M : 25.9 C  
 T249M : 13.3 C

-----  
 TEMP PROF

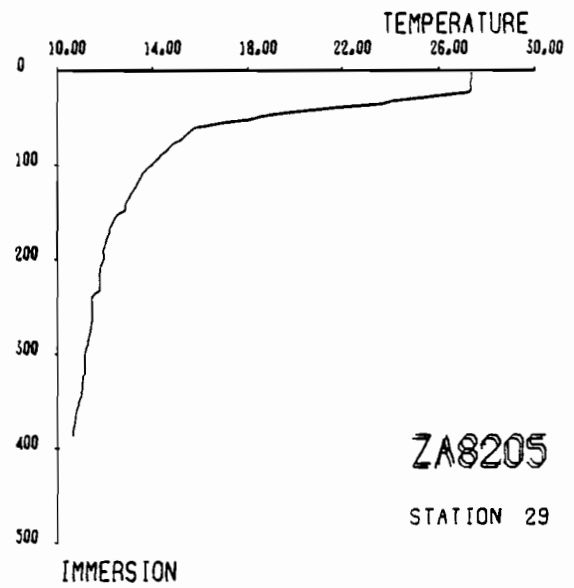
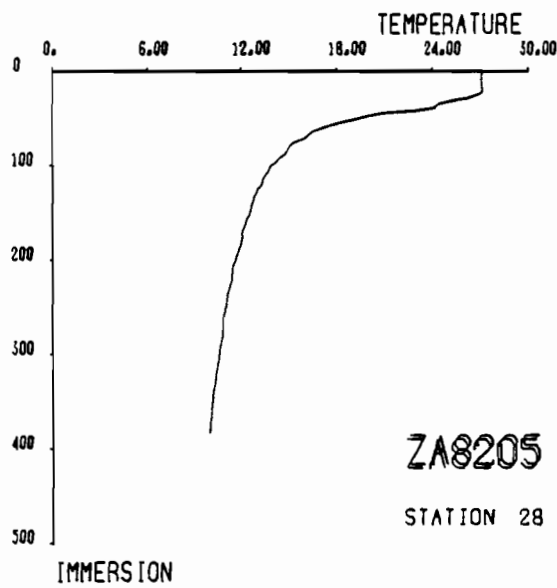
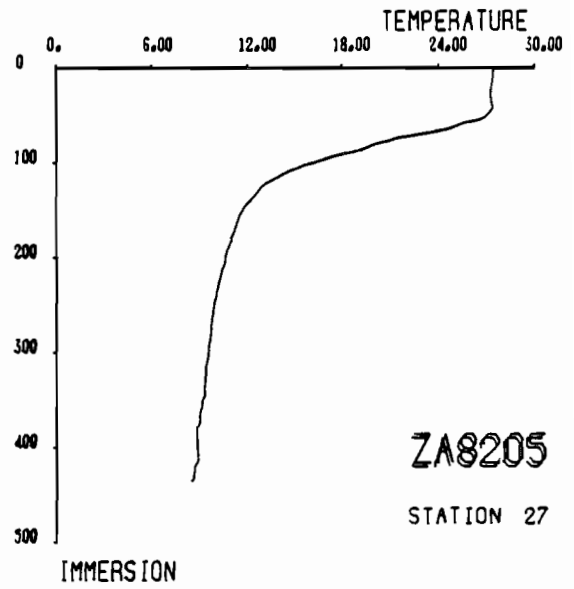
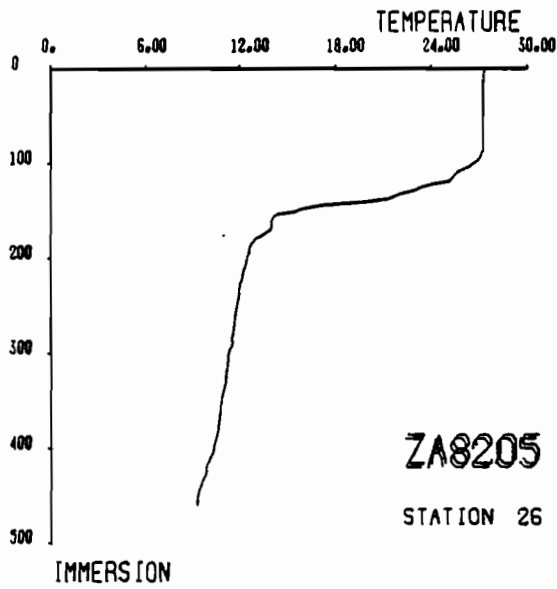
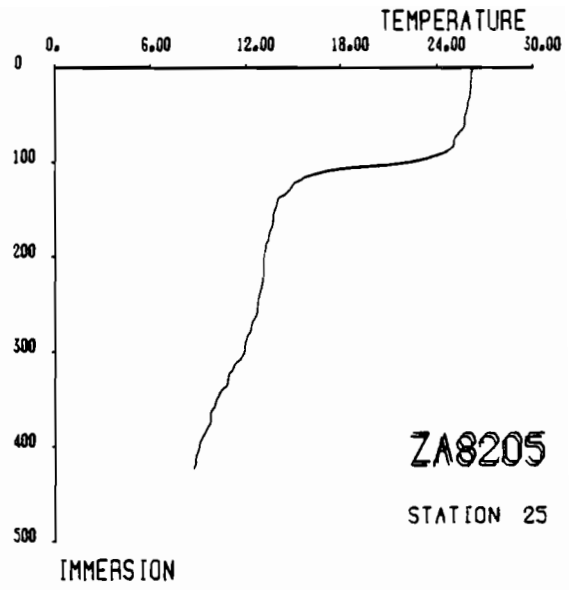
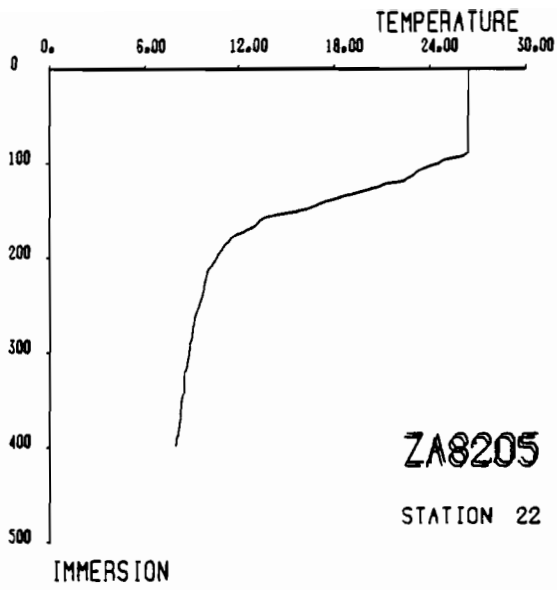
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 24 101  
 23 113  
 22 129  
 21 139  
 20 150  
 19 162  
 18 173  
 17 184  
 16 202  
 15 221  
 14 237  
 13 251  
 12 272  
 11 301  
 10 327  
 9 346  
 8 377  
 7 423

TEMP PROF

25 95  
 24 108  
 23 121  
 22 148  
 21 158  
 20 168  
 19 175  
 18 189  
 17 197  
 16 211  
 15 227  
 14 246  
 13 281  
 12 299  
 11 331  
 10 358  
 9 389  
 8 418  
 7 460

TEMP PROF

25 75  
 24 91  
 23 108  
 22 129  
 21 144  
 20 149  
 19 163  
 18 176  
 17 189  
 16 197  
 15 210  
 14 236



## STATION 22

24/ 8/82 24H 0 Z  
 LAT 4 56'S  
 LONG 32 42'W  
 T 3M : 26.5 C  
 T399M : 7.9 C

## STATION 25

26/ 8/82 0H 0 Z  
 LAT 2 48'N  
 LONG 29 36'W  
 T 3M : 26.2 C  
 T424M : 8.8 C

## STATION 26

26/ 8/82 12H 0 Z  
 LAT 6 8'N  
 LONG 28 15'W  
 T 3M : 27.3 C  
 T461M : 9.2 C

-----  
 TEMP PROF

26 93  
 25 96  
 24 102  
 23 111  
 22 119  
 21 122  
 20 128  
 19 132  
 18 138  
 17 143  
 16 148  
 15 152  
 14 155  
 13 165  
 12 174  
 11 189  
 10 217  
 9 284  
 8 391

TEMP PROF

26 34  
 25 84  
 24 93  
 23 97  
 22 100  
 21 102  
 20 104  
 19 105  
 18 107  
 17 110  
 16 114  
 15 123  
 14 139  
 13 228  
 12 287  
 11 322  
 10 359  
 9 405

TEMP PROF

27 96  
 26 106  
 25 119  
 24 122  
 23 127  
 22 131  
 21 138  
 20 140  
 19 141  
 18 142  
 17 144  
 16 147  
 15 151  
 14 157  
 13 178  
 12 225  
 11 335  
 10 414

## STATION 27

26/ 8/82 18H 0 Z  
 LAT 7 55'N  
 LONG 27 27'W  
 T 3M : 27.4 C  
 T436M : 8.5 C

## STATION 28

27/ 8/82 0H 0 Z  
 LAT 9 42'N  
 LONG 26 36'W  
 T 3M : 27.1 C  
 T384M : 10.0 C

## STATION 29

27/ 8/82 12H 0 Z  
 LAT 13 12'N  
 LONG 25 0'W  
 T 3M : 27.3 C  
 T387M : 10.6 C

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 TEMP PROF

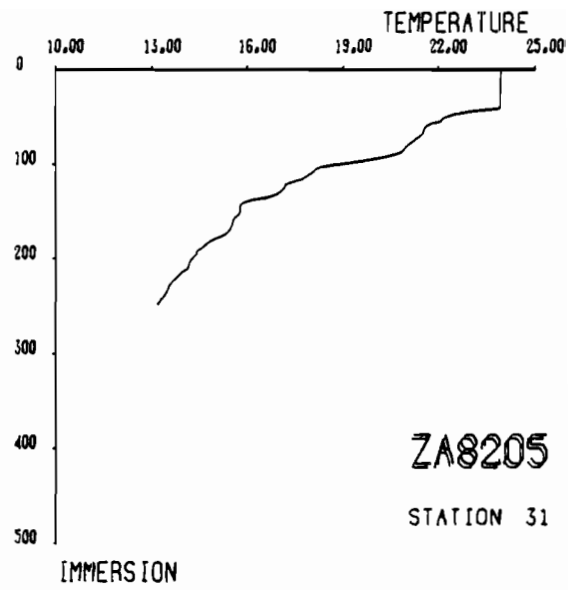
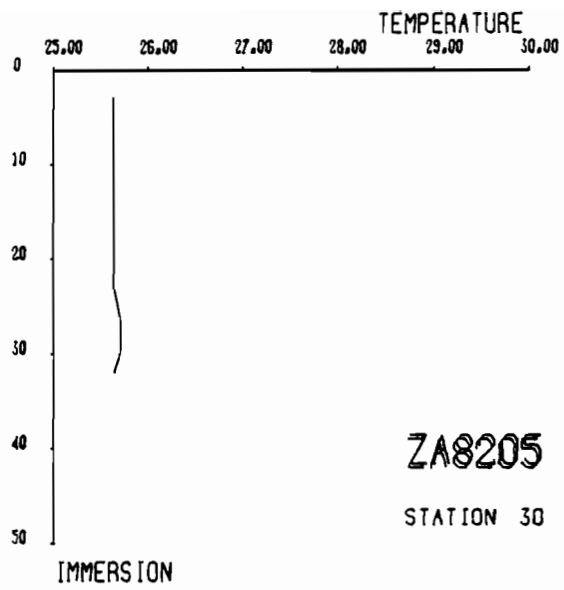
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 26 56  
 25 61  
 24 66  
 23 69  
 22 72  
 21 76  
 20 80  
 19 87  
 18 91  
 17 95  
 16 100  
 15 107  
 14 114  
 13 123  
 12 142  
 11 180  
 10 244  
 9 375

TEMP PROF

27 23  
 26 29  
 25 32  
 24 39  
 23 41  
 22 43  
 21 44  
 20 47  
 19 51  
 18 55  
 17 60  
 16 69  
 15 79  
 14 98  
 13 124  
 12 177  
 11 250  
 10 374

TEMP PROF

27 23  
 26 26  
 25 29  
 24 32  
 23 36  
 22 38  
 21 40  
 20 43  
 19 46  
 18 52  
 17 54  
 16 59  
 15 75  
 14 97  
 13 132  
 12 181  
 11 338





STATION 30

28/ 8/82 0N 0 Z  
LAT 16 30'N  
LONG 24 45'W  
T 3M : 25.6 C  
T 32M : 25.7 C

STATION 31

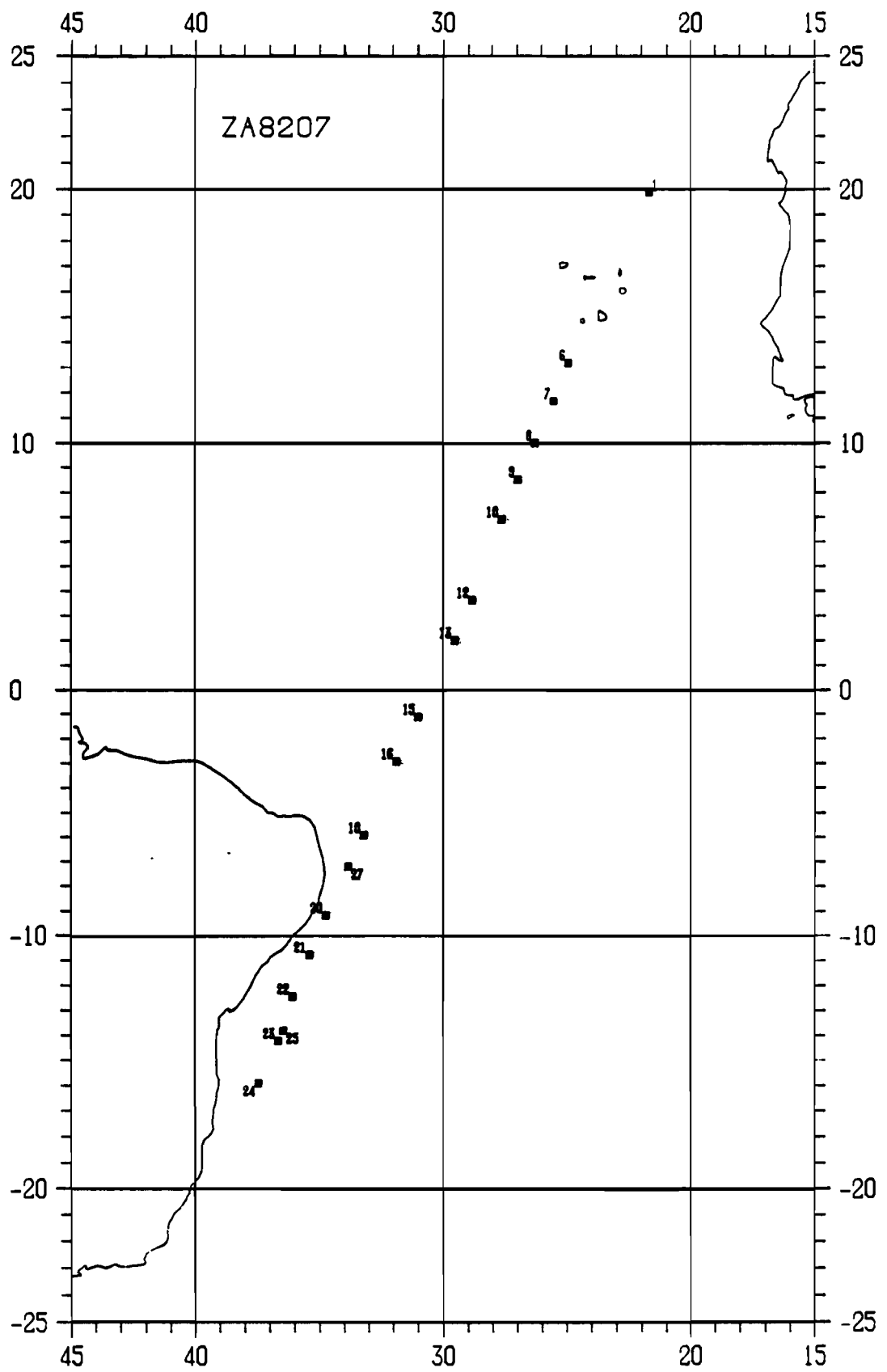
28/ 8/82 12H 0 Z  
LAT 19 50'N  
LONG 22 16'W  
T 3M : 24.0 C  
T249M : 13.1 C

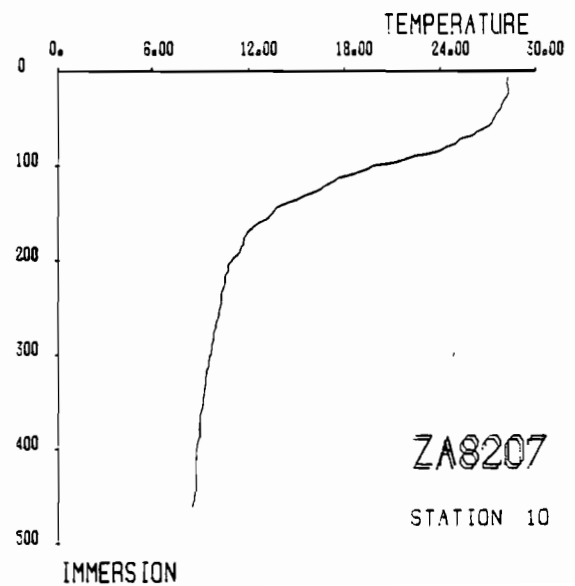
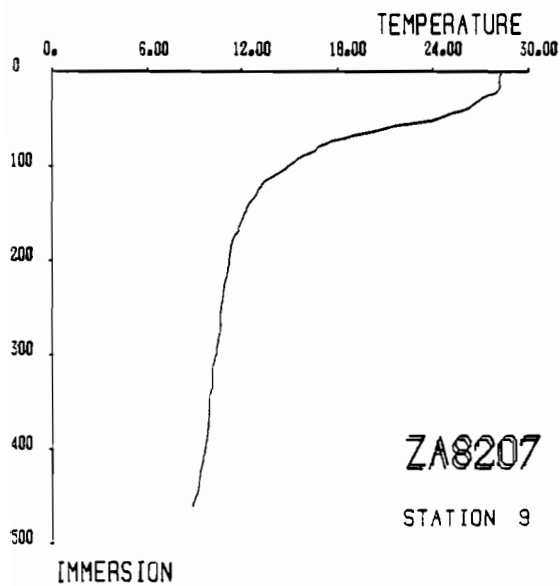
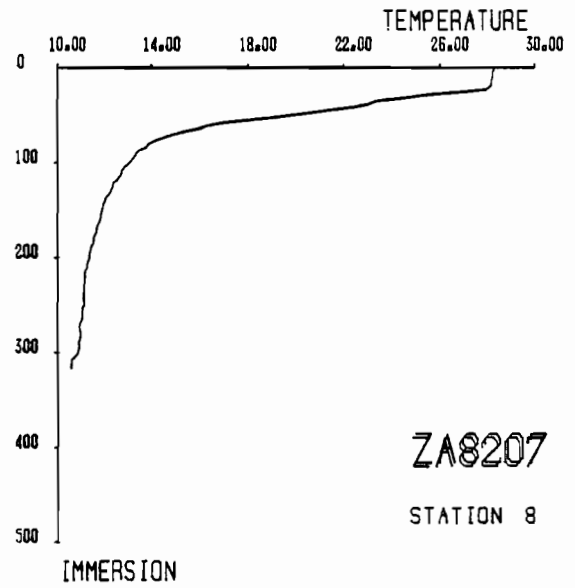
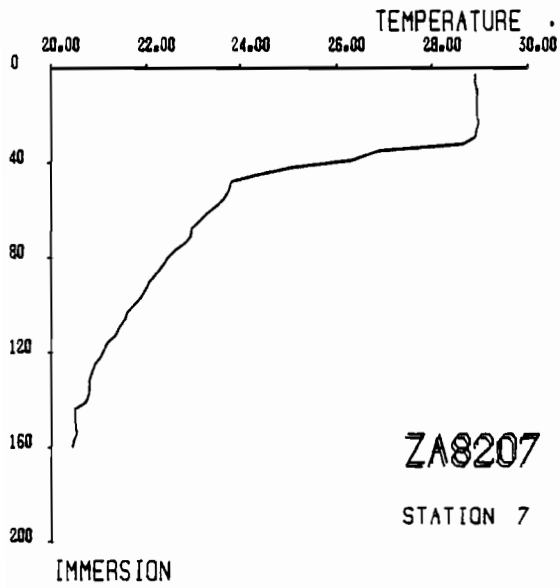
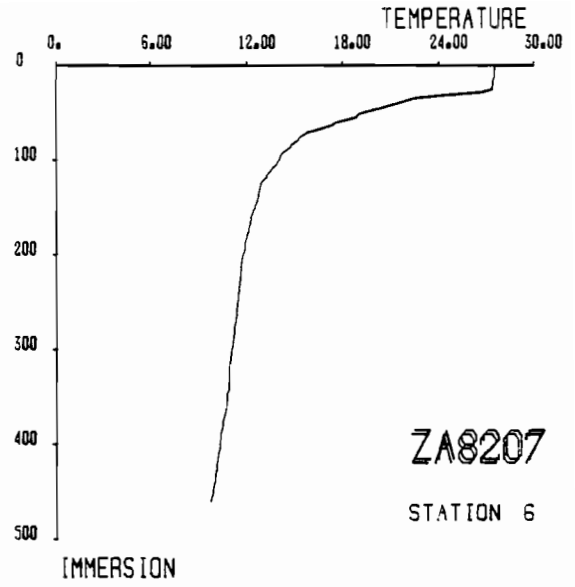
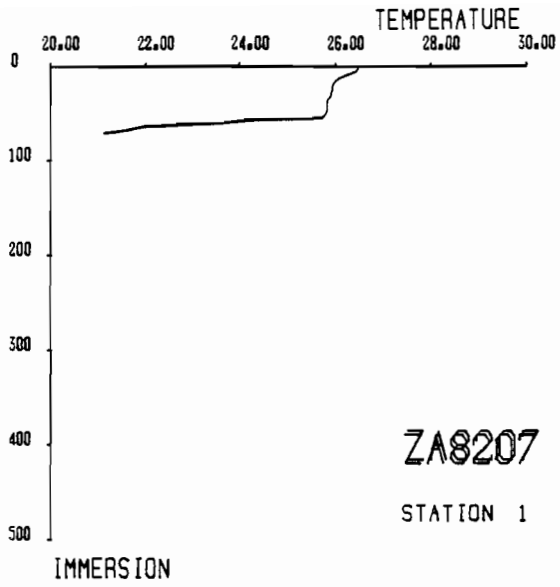
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TEMP PROF

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TEMP PROF

23	44
22	55
21	80
20	94
19	99
18	109
17	130
16	139
15	178
14	213







STATION 1	STATION 6	STATION 7
3/10/82 18H 0 Z	4/10/82 18H30 Z	5/10/82 0H 0 Z
LAT 19 52'N	LAT 13 11'N	LAT 11 40'N
LONG 21 44'W	LONG 24 58'W	LONG 25 34'W
T 3M : 26.5 C	T 3M : 27.5 C	T 3M : 28.9 C
T 71M : 21.1 C	T 461M : 9.7 C	T 160M : 20.4 C

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TEMP	PROF
------	------

26	15
25	56
24	58
23	61
22	63

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TEMP	PROF
------	------

27	27
26	29
25	31
24	32
23	34
22	37
21	43
20	47
19	52
18	59
17	65
16	70
15	81
14	100
13	122
12	179
11	303
10	433

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TEMP	PROF
------	------

28	33
27	34
26	39
25	42
24	46
23	67
22	91
21	122

STATION 8	STATION 9	STATION 10
5/10/82 6H 0 Z	5/10/82 12H 0 Z	5/10/82 18H 0 Z
LAT 10 0'N	LAT 8 30'N	LAT 6 55'N
LONG 26 19'W	LONG 27 0'W	LONG 27 39'W
T 3M : 28.2 C	T 3M : 28.2 C	T 3M : 28.3 C
T 318M : 10.5 C	T 461M : 8.8 C	T 461M : 8.5 C

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TEMP	PROF
------	------

28	21
27	25
26	27
25	30
24	33
23	38
22	43
21	46
20	49
19	52
18	54
17	57
16	63
15	69
14	78
13	101
12	138
11	266

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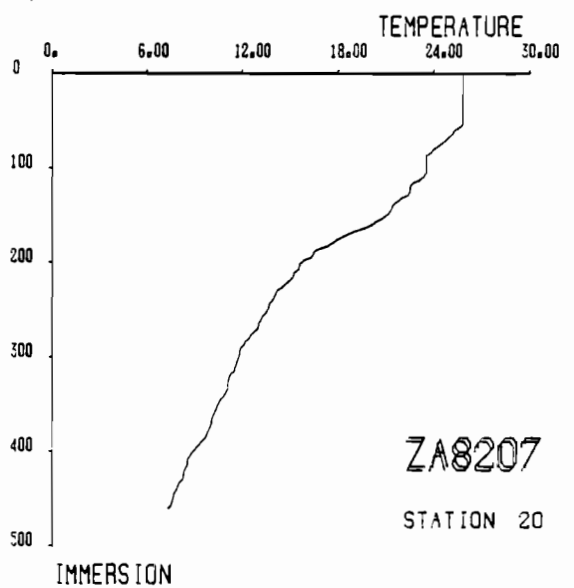
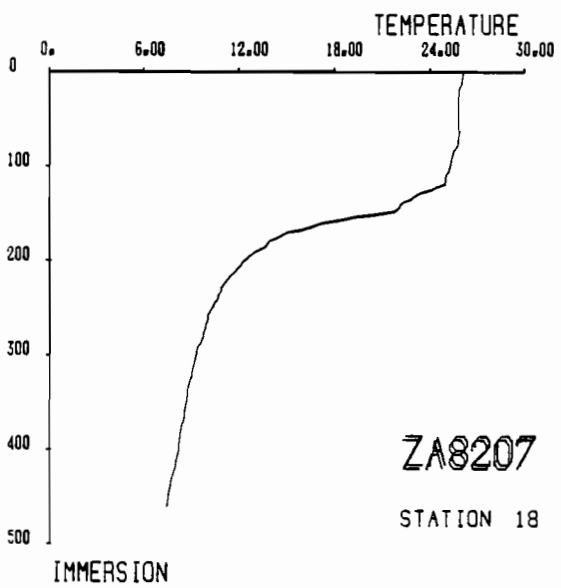
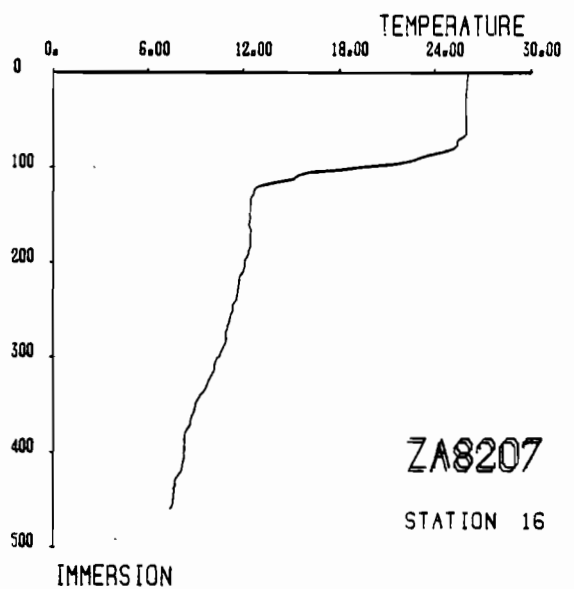
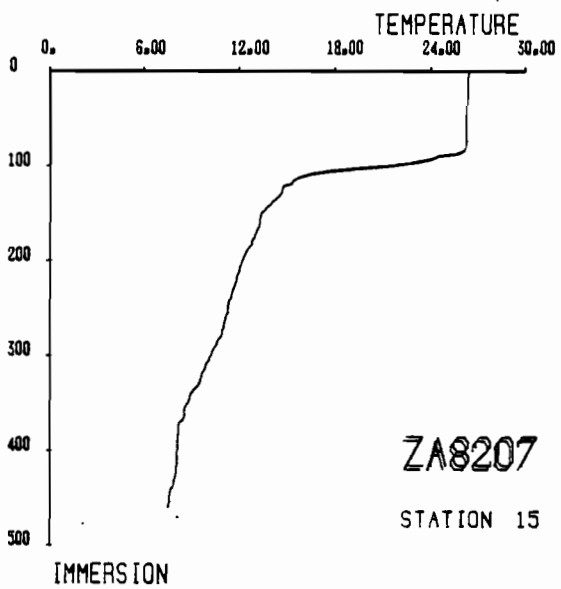
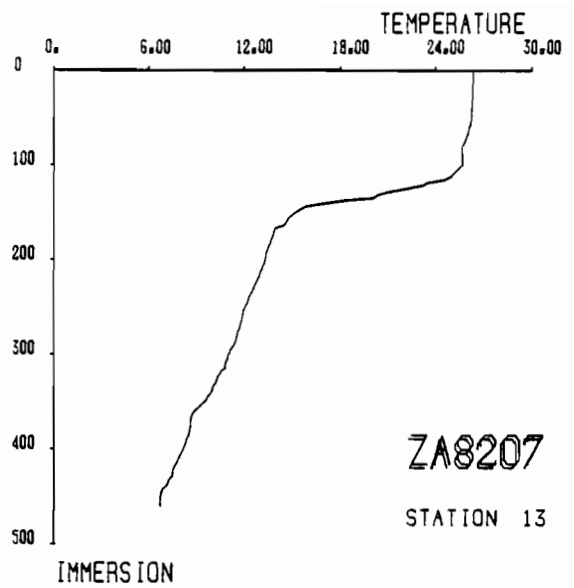
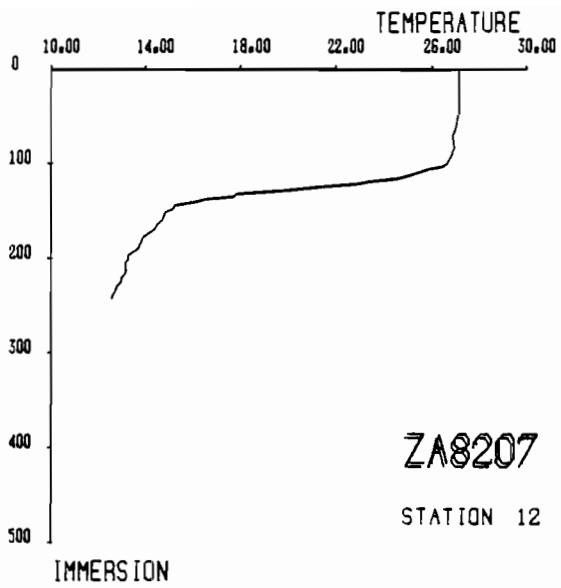
TEMP	PROF
------	------

28	22
27	29
26	40
25	45
24	51
23	54
22	56
21	60
20	64
19	67
18	72
17	77
16	87
15	98
14	110
13	125
12	156
11	218
10	337
9	450

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TEMP	PROF
------	------

28	30
27	58
26	67
25	75
24	83
23	87
22	92
21	97
20	99
19	105
18	111
17	118
16	128
15	135
14	141
13	157
12	168
11	197
10	262
9	360



## STATION 12

6/10/82 6H 0 Z  
 LAT 3 37'N  
 LONG 28 52'W  
 T 3M : 27.1 C  
 T461M : 12.6 C

## STATION 13

6/10/82 12H 0 Z  
 LAT 2 0'N  
 LONG 29 34'W  
 T 3M : 26.4 C  
 T461M : 6.7 C

## STATION 15

7/10/82 0H 0 Z  
 LAT 1 6'S  
 LONG 31 0'W  
 T 3M : 26.3 C  
 T461M : 7.5 C

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TEMP	PROF
27	59
26	105
25	113
24	117
23	121
22	123
21	125
20	128
19	130
18	131
17	136
16	141
15	149
14	175
13	220

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TEMP	PROF
26	68
25	111
24	117
23	122
22	125
21	128
20	135
19	136
18	138
17	140
16	143
15	153
14	166
13	214
12	252
11	300
10	333
9	357
8	404
7	440

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TEMP	PROF
26	84
25	88
24	92
23	96
22	99
21	100
20	102
19	103
18	105
17	107
16	111
15	119
14	138
13	169
12	206
11	268
10	307
9	338
8	415

## STATION 16

7/10/82 6H 0 Z  
 LAT 2 55'S  
 LONG 31 53'W  
 T 3M : 26.0 C  
 T461M : 7.3 C

## STATION 18

7/10/82 18H 0 Z  
 LAT 5 56'S  
 LONG 33 14'W  
 T 3M : 26.0 C  
 T461M : 7.4 C

## STATION 20

8/10/82 6H 0 Z  
 LAT 9 10'S  
 LONG 34 45'W  
 T 3M : 25.8 C  
 T461M : 7.2 C

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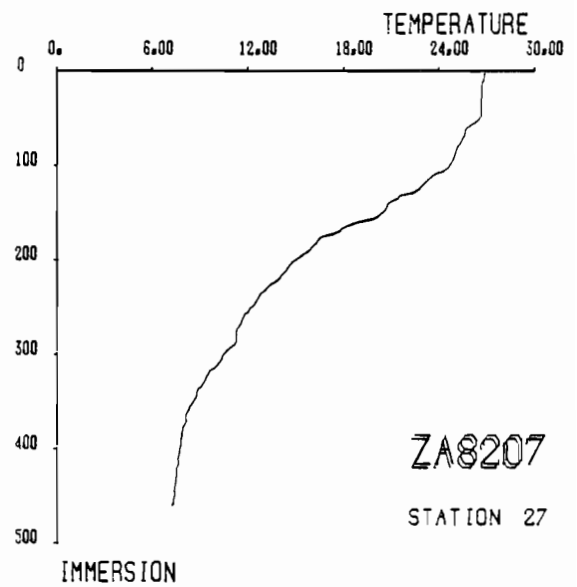
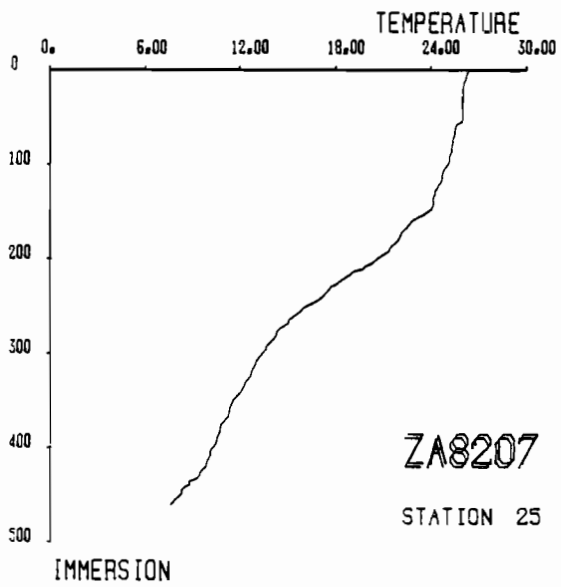
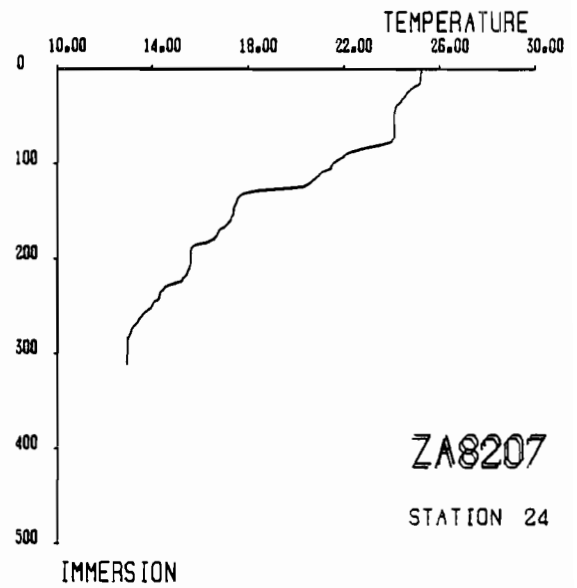
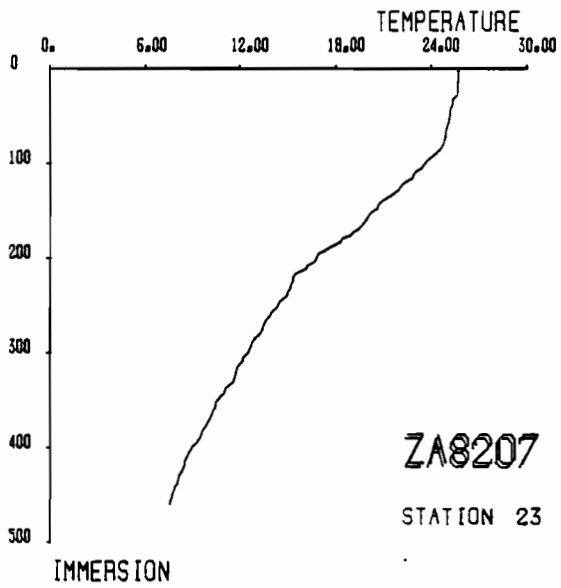
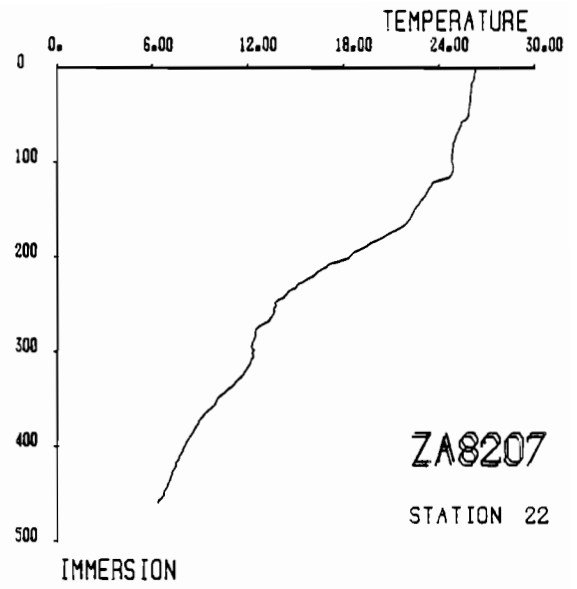
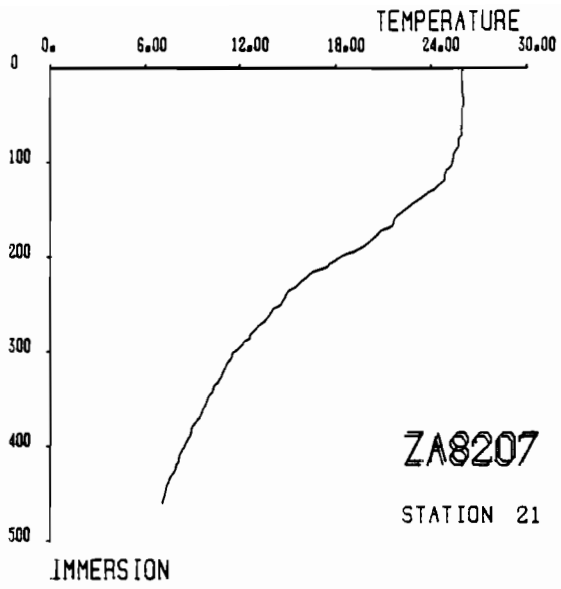
TEMP	PROF
26	17
25	80
24	85
23	90
22	95
21	97
20	99
19	100
18	102
17	104
16	106
15	113
14	116
13	120
12	208
11	266
10	317
9	346
8	421

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TEMP	PROF
26	8
25	108
24	125
23	132
22	144
21	149
20	152
19	154
18	157
17	160
16	166
15	169
14	177
13	190
12	206
11	225
10	263
9	321
8	413

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TEMP	PROF
25	66
24	80
23	113
22	131
21	150
20	160
19	167
18	175
17	185
16	197
15	218
14	237
13	267
12	288
11	334
10	366
9	396
8	432





## STATION 21

8/10/82 12H 0 Z  
 LAT 10 46'S  
 LONG 35 24'W  
 T 3M : 26.0 C  
 T461M : 7.0 C

## STATION 22

8/10/82 18H 0 Z  
 LAT 12 26'S  
 LONG 36 5'W  
 T 3M : 26.2 C  
 T461M : 6.4 C

## STATION 23

9/10/82 0H 0 Z  
 LAT 14 12'S  
 LONG 36 40'W  
 T 3M : 25.7 C  
 T461M : 7.4 C

-----  
 TEMP PROF

25 108  
 24 130  
 23 142  
 22 154  
 21 171  
 20 186  
 19 195  
 18 203  
 17 214  
 16 223  
 15 236  
 14 256  
 13 275  
 12 295  
 11 319  
 10 347  
 9 378  
 8 418  
 7 461

TEMP PROF

26 19  
 25 73  
 24 119  
 23 138  
 22 163  
 21 174  
 20 183  
 19 192  
 18 203  
 17 208  
 16 221  
 15 231  
 14 244  
 13 270  
 12 316  
 11 337  
 10 353  
 9 372  
 8 401  
 7 439

TEMP PROF

25 62  
 24 93  
 23 109  
 22 127  
 21 139  
 20 156  
 19 174  
 18 185  
 17 194  
 16 211  
 15 234  
 14 256  
 13 283  
 12 311  
 11 340  
 10 370  
 9 397  
 8 435

## STATION 24

9/10/82 6H10 Z  
 LAT 15 55'S  
 LONG 37 27'W  
 T 3M : 25.3 C  
 T312M : 12.9 C

## STATION 25

3/11/82 18H 0 Z  
 LAT 13 48'S  
 LONG 36 28'W  
 T 3M : 26.3 C  
 T461M : 7.5 C

## STATION 27

4/11/82 18H 0 Z  
 LAT 7 11'S  
 LONG 33 51'W  
 T 3M : 26.8 C  
 T461M : 7.3 C

-----  
 TEMP PROF

25 18  
 24 77  
 23 82  
 22 92  
 21 110  
 20 125  
 19 127  
 18 130  
 17 167  
 16 184  
 15 225  
 14 248  
 13 283

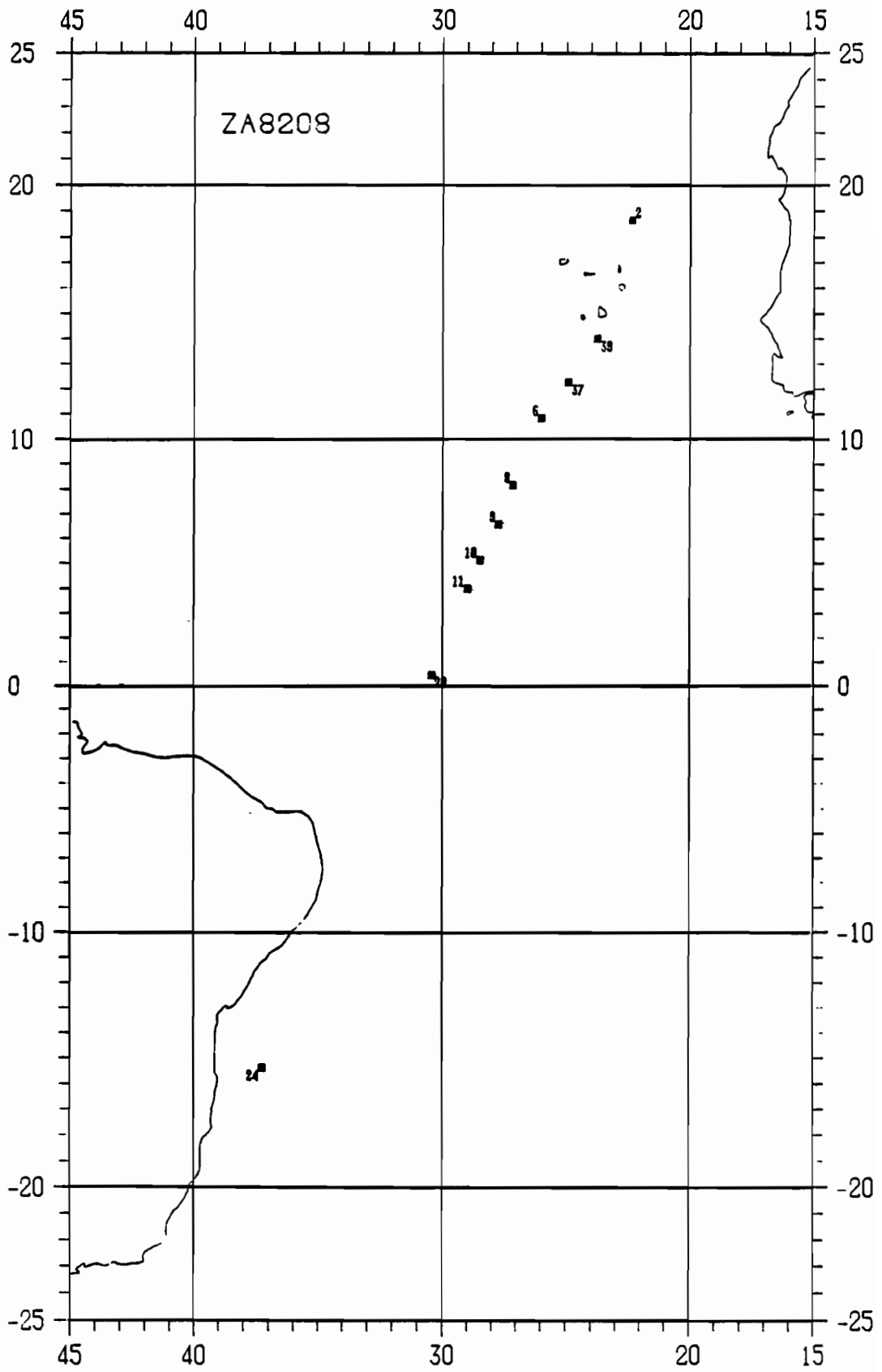
TEMP PROF

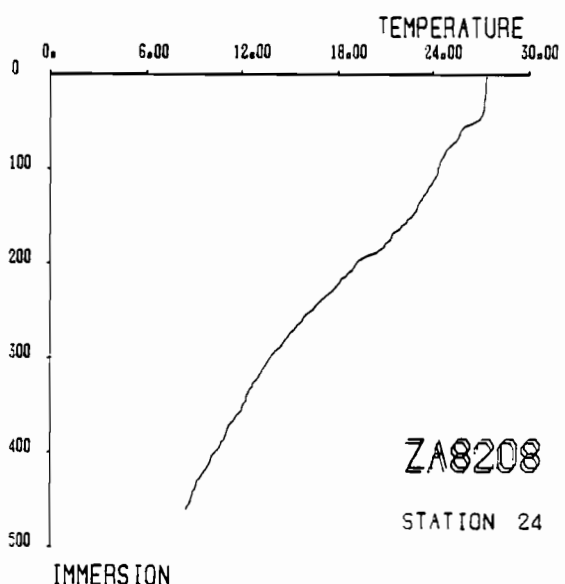
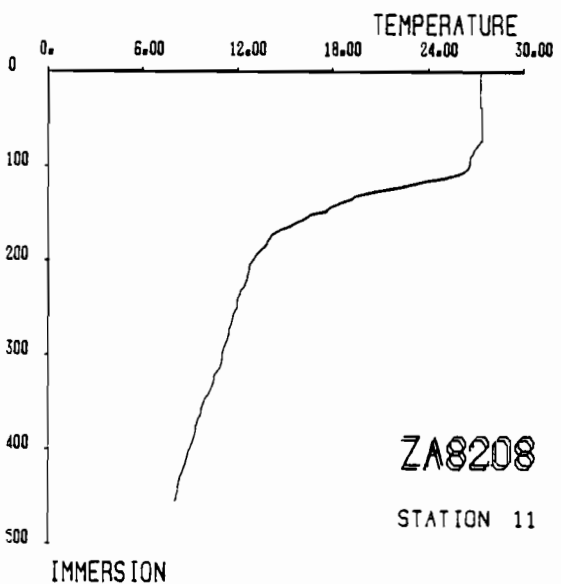
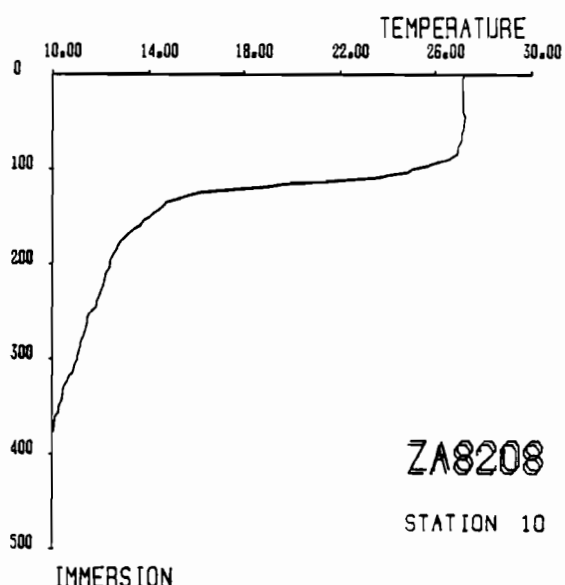
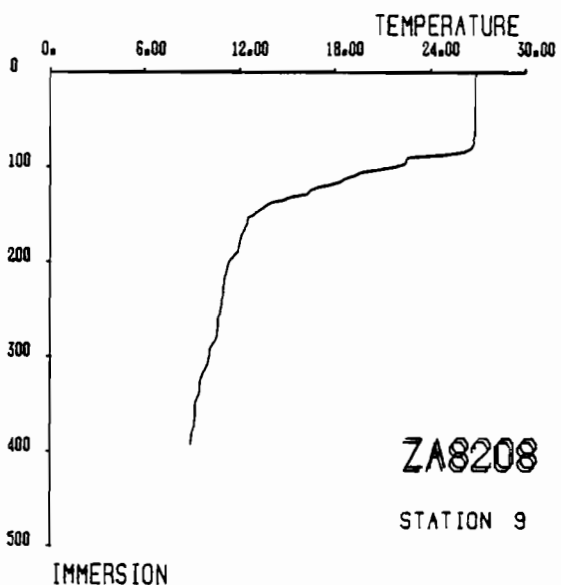
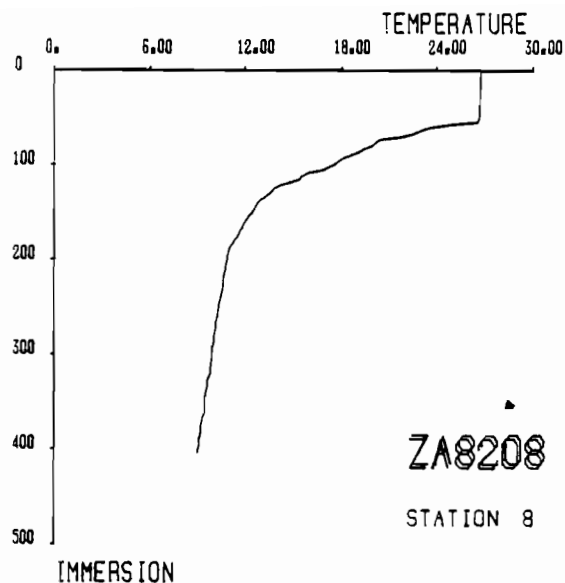
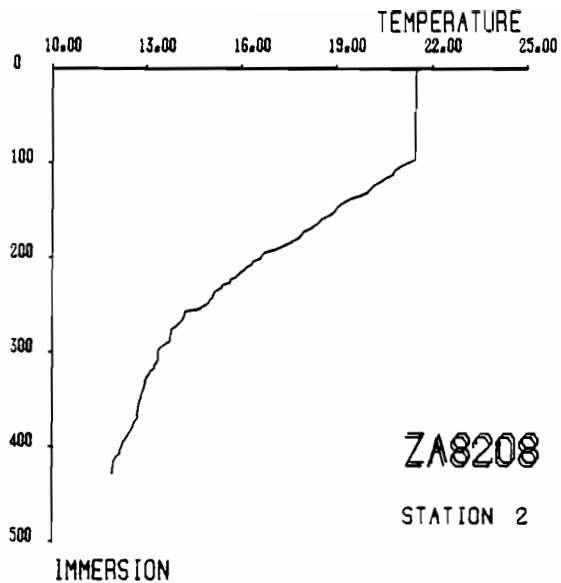
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 23 157  
 22 176  
 21 195  
 20 206  
 19 214  
 18 226  
 17 241  
 16 251  
 15 264  
 14 286  
 13 308  
 12 341  
 11 370  
 10 409  
 9 433  
 8 452

TEMP PROF

26 57  
 25 87  
 24 107  
 23 120  
 22 130  
 21 138  
 20 155  
 19 159  
 18 165  
 17 174  
 16 186  
 15 200  
 14 219  
 13 233  
 12 255  
 11 292  
 10 313  
 9 335  
 8 376





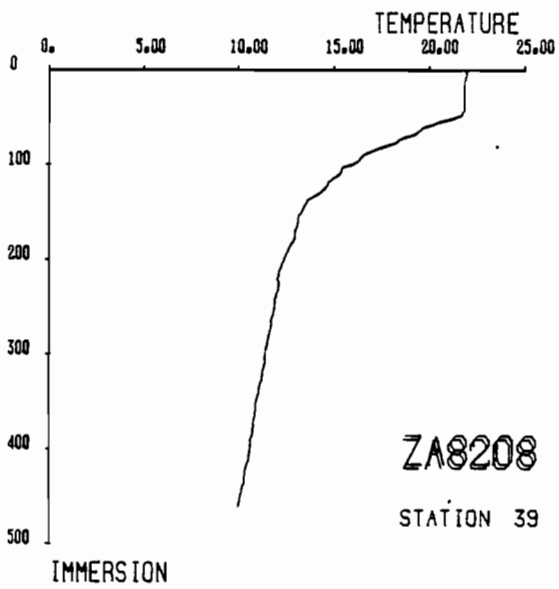
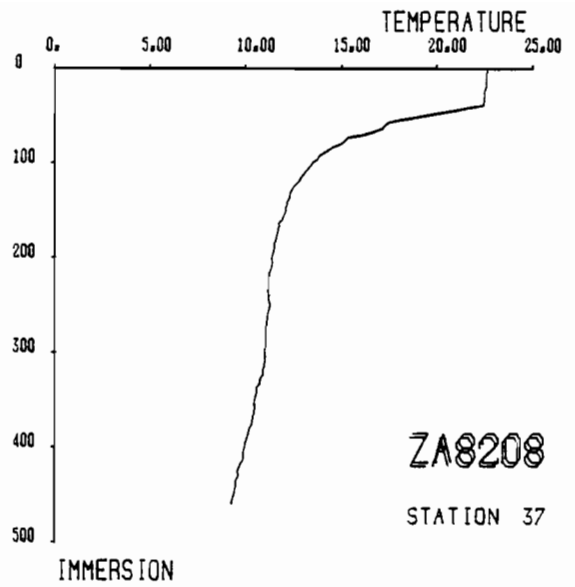
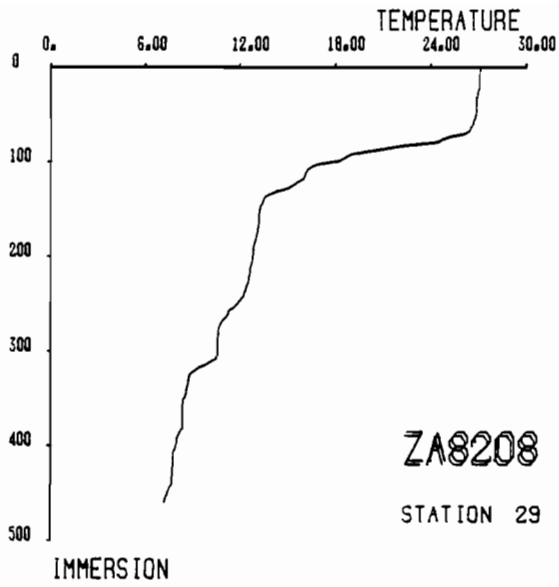


STATION 2	STATION 8	STATION 9
19/12/82 6H15 Z	20/12/82 23H10 Z	21/12/82 5H45 Z
LAT 18 40'N	LAT 8 10'N	LAT 6 35'N
LONG 22 21'W	LONG 27 10'W	LONG 27 46'W
T 3M : 21.5 C	T 3M : 26.7 C	T 3M : 26.8 C
T430M : 11.9 C	T405M : 8.9 C	T393M : 8.9 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
21	103	26	55	26	84
20	130	25	57	25	86
19	148	24	59	24	88
18	172	23	63	23	89
17	192	22	69	22	98
16	215	21	72	21	101
15	244	20	78	20	104
14	270	19	86	19	110
13	326	18	94	18	117
12	413	17	103	17	121
		16	108	16	129
		15	117	15	133
		14	123	14	138
		13	136	13	148
		12	158	12	179
		11	187	11	221
		10	279	10	305
		9	396	9	378

STATION 10	STATION 11	STATION 24
21/12/82 11H40 Z	21/12/82 16H 0 Z	25/12/82 0H 0 Z
LAT 5 8'N	LAT 4 0'N	LAT 15 22'S
LONG 28 30'W	LONG 29 0'W	LONG 37 15'W
T 3M : 27.1 C	T 3M : 27.3 C	T 3M : 27.3 C
T377M : 10.0 C	T455M : 8.0 C	T461M : 8.4 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
27	74	27	80	27	44
26	93	26	108	26	54
25	100	25	112	25	77
24	106	24	115	24	113
23	110	23	118	23	141
22	112	22	122	22	160
21	113	21	126	21	178
20	115	20	129	20	191
19	118	19	136	19	203
18	120	18	142	18	221
17	123	17	149	17	237
16	125	16	157	16	253
15	132	15	165	15	273
14	150	14	177	14	294
13	171	13	199	13	321
12	227	12	239	12	352
11	303	11	299	11	378
		10	344	10	406
		9	397	9	437



## STATION 29

22/ 1/83 12H 0 Z  
 LAT 0 26'N  
 LONG 30 29'W  
 T 3M : 27.1 C  
 T461M : 7.1 C

## STATION 37

24/ 1/83 12H 0 Z  
 LAT 12 16'N  
 LONG 24 57'W  
 T 3M : 22.5 C  
 T461M : 9.2 C

## STATION 39

24/ 1/83 18H 0 Z  
 LAT 14 0'N  
 LONG 23 47'W  
 T 3M : 21.9 C  
 T461M : 9.9 C

-----  
 TEMP PROF

27 25  
 26 71  
 25 75  
 24 80  
 23 82  
 22 84  
 21 86  
 20 90  
 19 92  
 18 100  
 17 102  
 16 117  
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 8 392

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 TEMP PROF

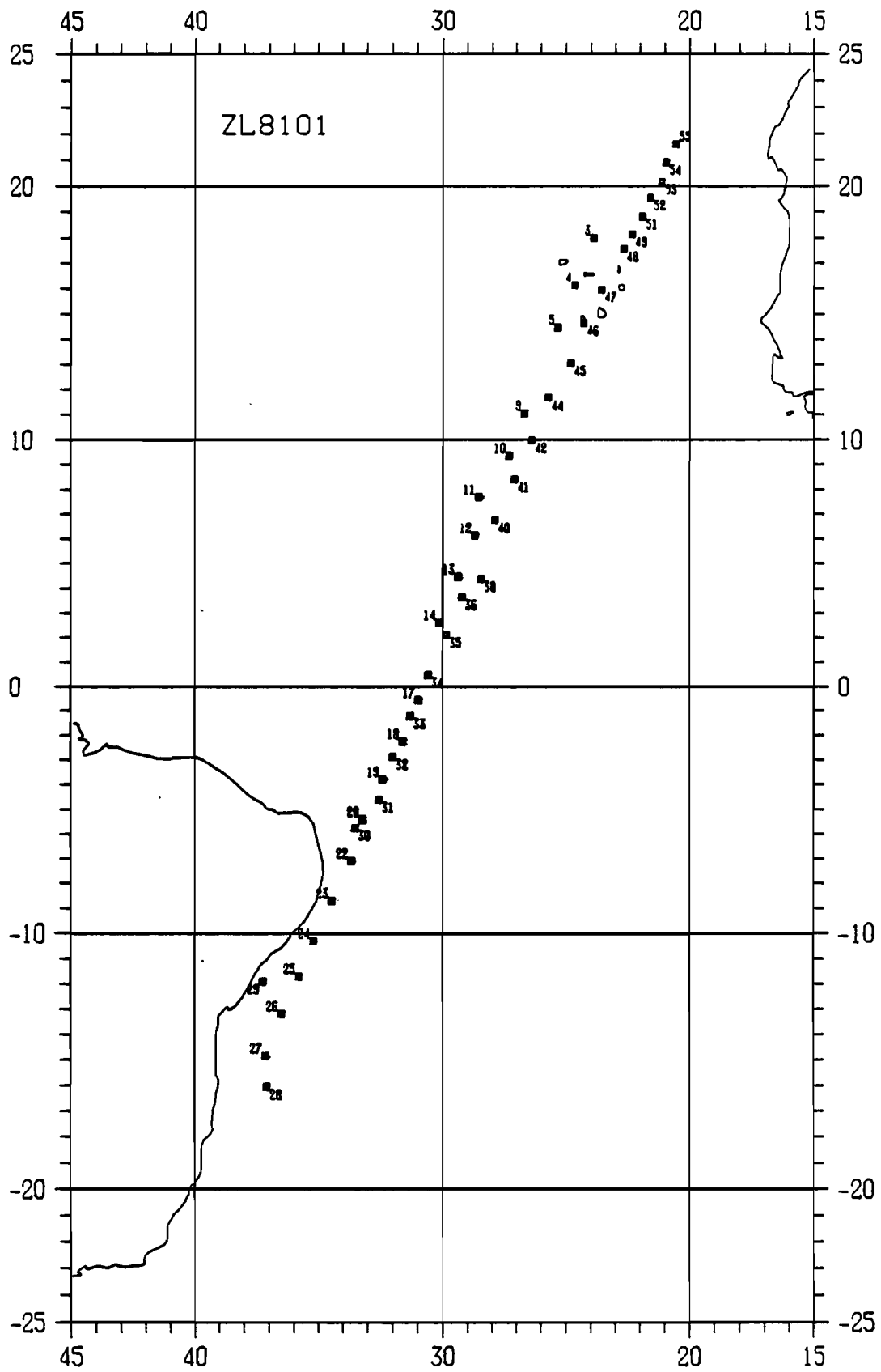
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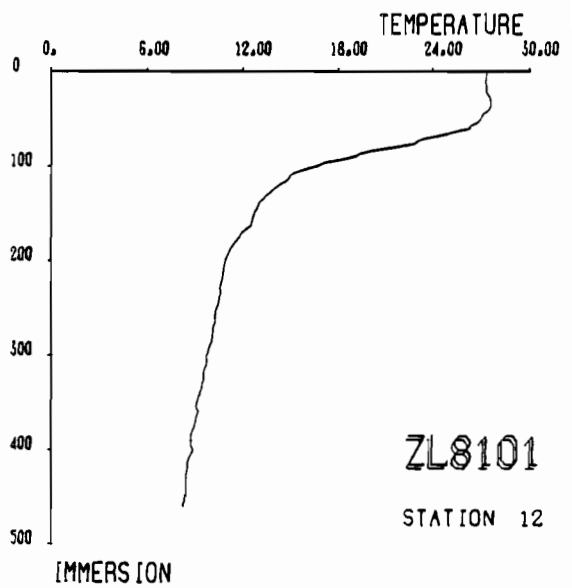
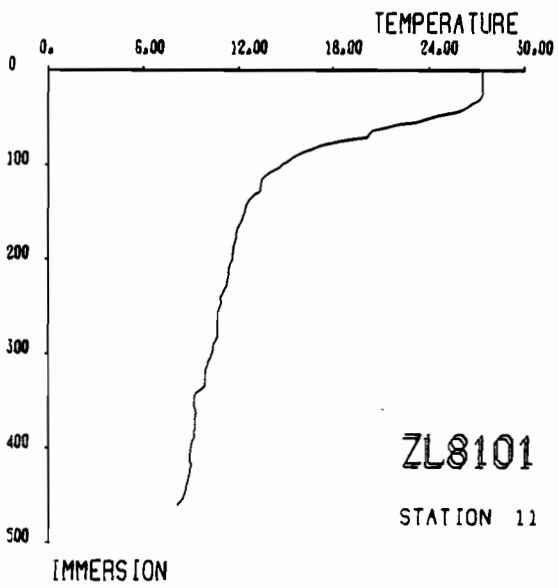
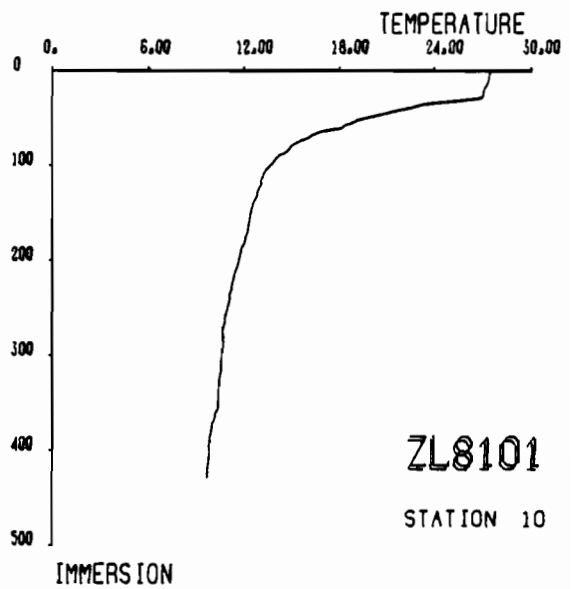
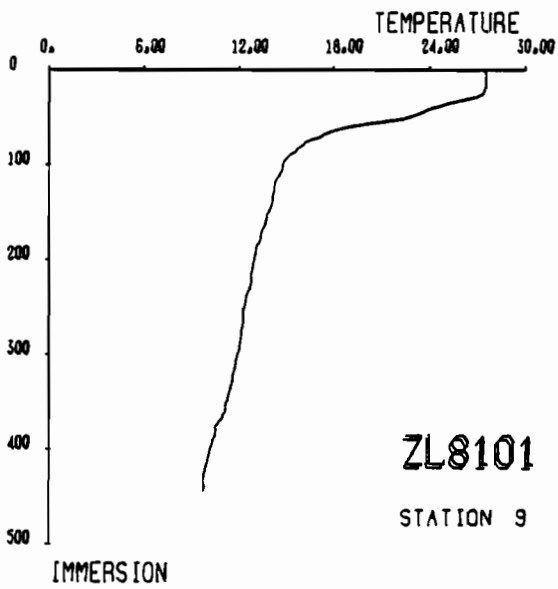
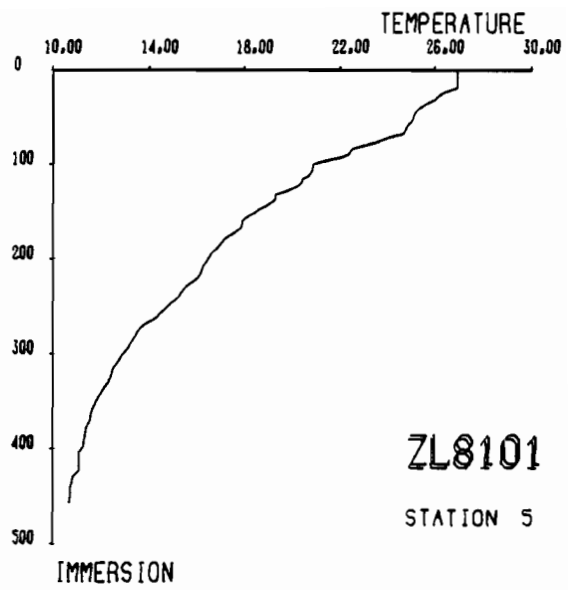
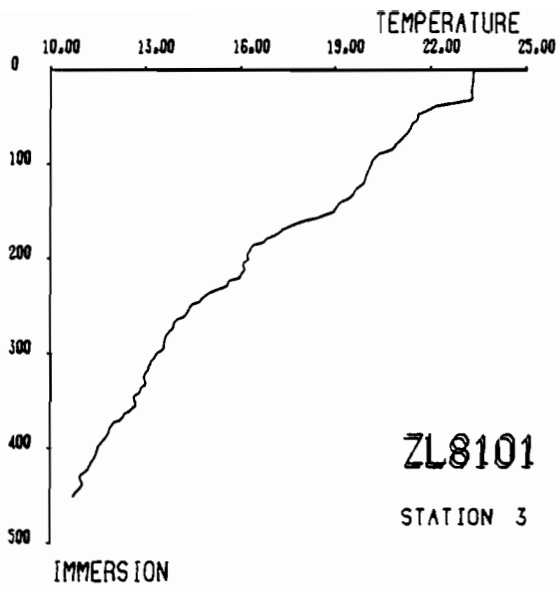
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 TEMP PROF

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 11 343  
 10 458









## STATION 3

21/ 7/81 6H 0 Z  
 LAT 18 0'N  
 LONG 23 56'W  
 T 3M : 23.3 C  
 T452M : 10.7 C

## STATION 5

21/ 7/81 18H 0 Z  
 LAT 14 27'N  
 LONG 25 22'W  
 T 3M : 26.9 C  
 T458M : 10.7 C

## STATION 9

22/ 7/81 6H 0 Z  
 LAT 11 3'N  
 LONG 26 42'W  
 T 3M : 27.5 C  
 T445M : 9.7 C

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 TEMP PROF

23 33  
 22 42  
 21 77  
 20 109  
 19 147  
 18 160  
 17 176  
 16 216  
 15 237  
 14 264  
 13 321  
 12 373  
 11 427

TEMP PROF

26 32  
 25 55  
 24 71  
 23 80  
 22 92  
 21 98  
 20 125  
 19 142  
 18 157  
 17 183  
 16 220  
 15 244  
 14 266  
 13 297  
 12 340  
 11 425

TEMP PROF

27 28  
 26 32  
 25 36  
 24 41  
 23 48  
 22 52  
 21 54  
 20 57  
 19 60  
 18 64  
 17 71  
 16 79  
 15 93  
 14 142  
 13 188  
 12 288  
 11 362  
 10 410

## STATION 10

22/ 7/81 12H 0 Z  
 LAT 9 22'N  
 LONG 27 20'W  
 T 3M : 27.4 C  
 T430M : 9.6 C

## STATION 11

22/ 7/81 18H 0 Z  
 LAT 7 42'N  
 LONG 28 35'W  
 T 3M : 27.3 C  
 T461M : 8.1 C

## STATION 12

23/ 7/81 0H 0 Z  
 LAT 6 8'N  
 LONG 28 44'W  
 T 3M : 27.3 C  
 T461M : 8.2 C

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 TEMP PROF

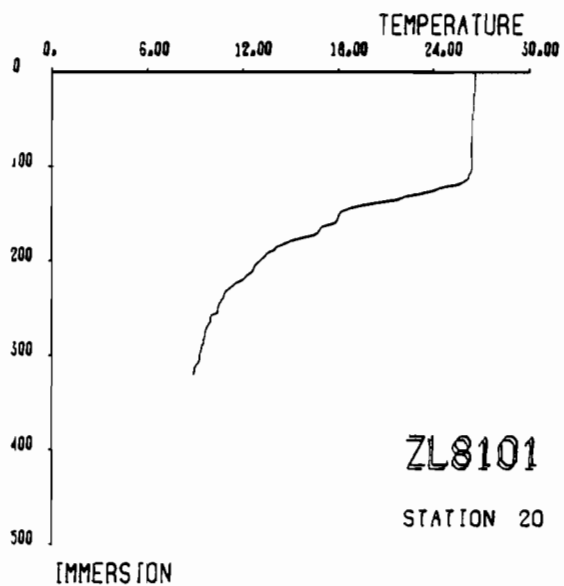
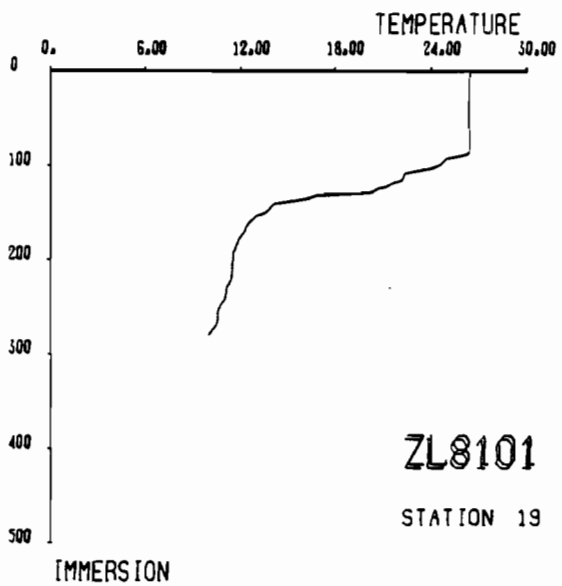
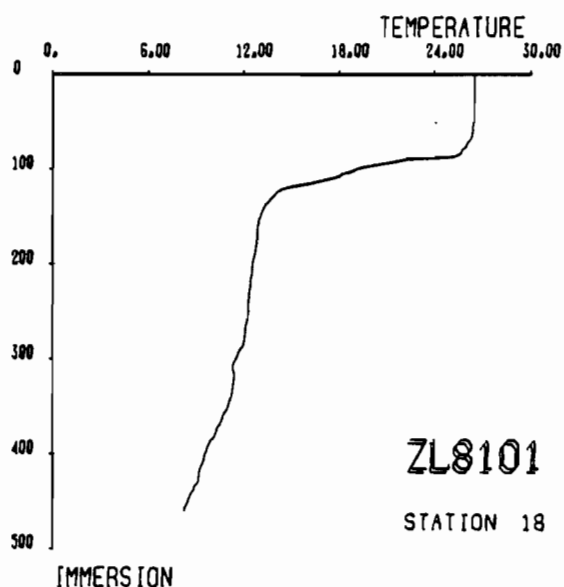
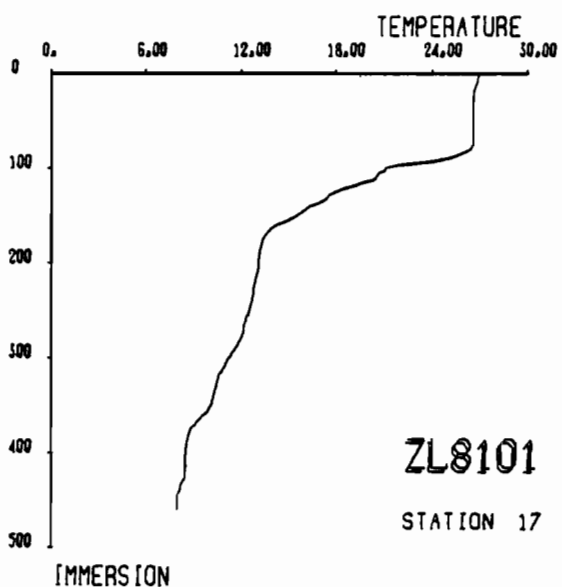
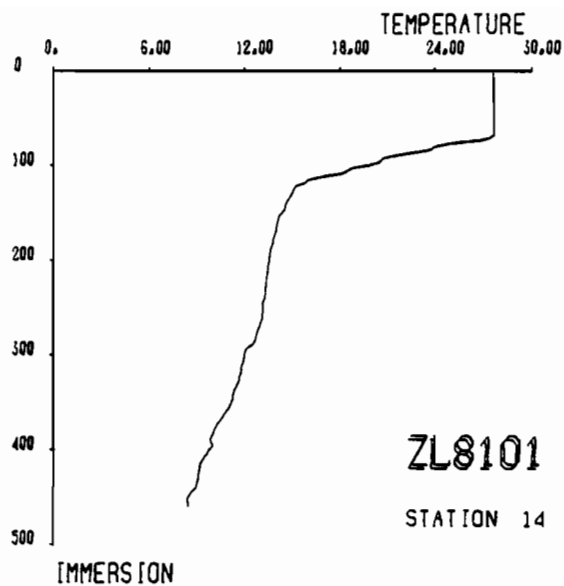
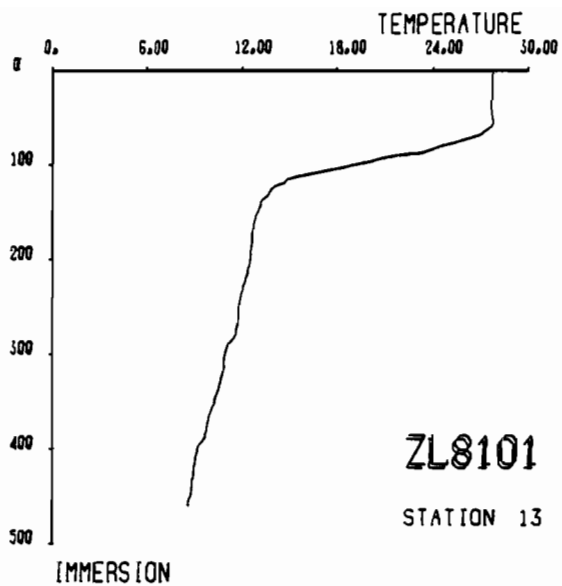
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 11 244  
 10 371

TEMP PROF

27 33  
 26 42  
 25 46  
 24 50  
 23 55  
 22 58  
 21 62  
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 19 74  
 18 76  
 17 81  
 16 87  
 15 97  
 14 107  
 13 131  
 12 164  
 11 234  
 10 314  
 9 400

TEMP PROF

27 48  
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 25 65  
 24 69  
 23 74  
 22 79  
 21 81  
 20 84  
 19 90  
 18 94  
 17 97  
 16 103  
 15 110  
 14 123  
 13 140  
 12 169  
 11 194  
 10 284  
 9 371



## STATION 13

23/ 7/81 6H 0 Z  
 LAT 4 28'N  
 LONG 29 24'W  
 T 3M : 27.7 C  
 T461M : 9.6 C

## STATION 14

23/ 7/81 12H 0 Z  
 LAT 2 37'N  
 LONG 30 10'W  
 T 3M : 27.6 C  
 T461M : 8.4 C

## STATION 17

24/ 7/81 0H 5 Z  
 LAT 0 34'S  
 LONG 30 59'W  
 T 3M : 26.9 C  
 T461M : 7.9 C

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 TEMP PROF

27 67  
 26 73  
 25 77  
 24 82  
 23 87  
 22 89  
 21 92  
 20 96  
 19 100  
 18 104  
 17 107  
 16 111  
 15 114  
 14 123  
 13 146  
 12 229  
 11 293  
 10 362  
 9 416

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 TEMP PROF

27 73  
 26 75  
 25 77  
 24 80  
 23 85  
 22 88  
 21 91  
 20 99  
 19 102  
 18 109  
 17 112  
 16 115  
 15 129  
 14 166  
 13 266  
 12 296  
 11 356  
 10 384  
 9 433

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 TEMP PROF

26 83  
 25 89  
 24 93  
 23 94  
 22 96  
 21 103  
 20 114  
 19 119  
 18 125  
 17 136  
 16 144  
 15 154  
 14 162  
 13 209  
 12 277  
 11 305  
 10 351  
 9 371  
 8 443

## STATION 18

24/ 7/81 6H 0 Z  
 LAT 2 14'S  
 LONG 31 37'W  
 T 3M : 26.5 C  
 T461M : 8.2 C

## STATION 19

24/ 7/81 12H 0 Z  
 LAT 3 47'S  
 LONG 32 25'W  
 T 3M : 26.4 C  
 T281M : 9.9 C

## STATION 20

24/ 7/81 18H 0 Z  
 LAT 5 24'S  
 LONG 33 12'W  
 T 3M : 26.6 C  
 T321M : 8.8 C

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 TEMP PROF

26 76  
 25 87  
 24 88  
 23 89  
 22 90  
 21 94  
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 9 431

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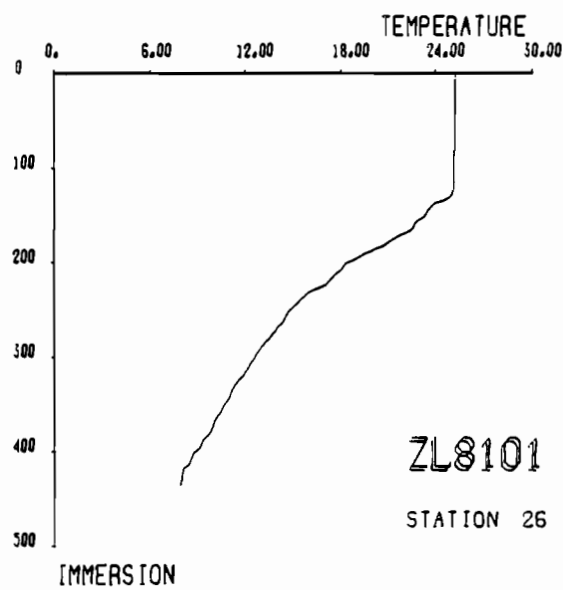
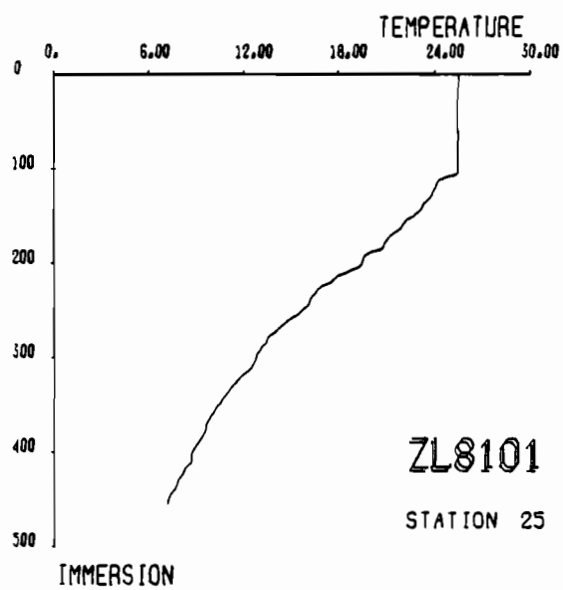
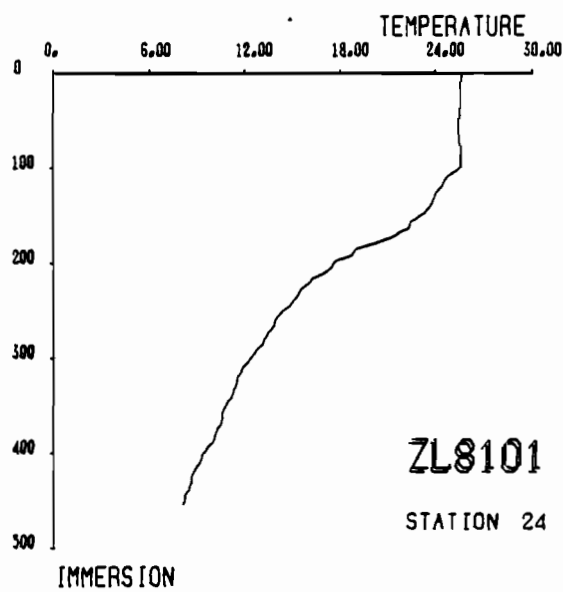
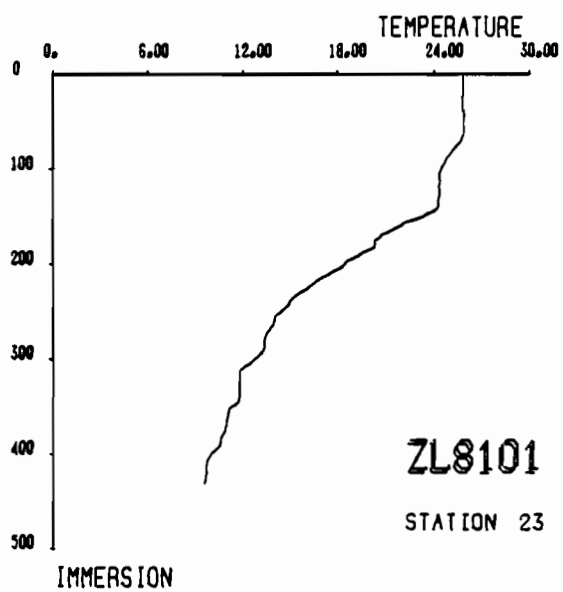
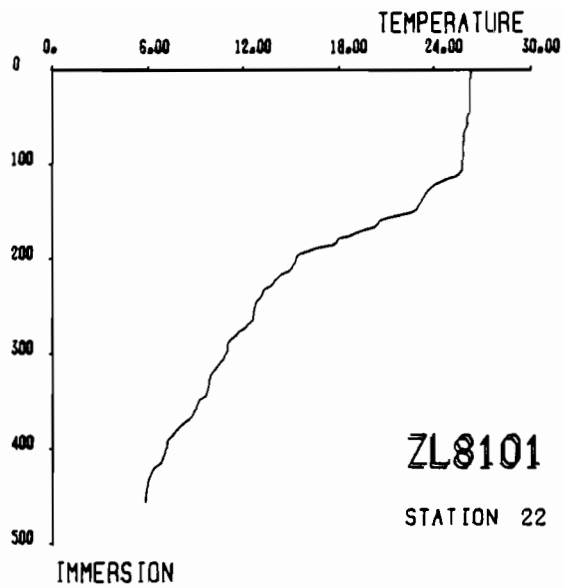
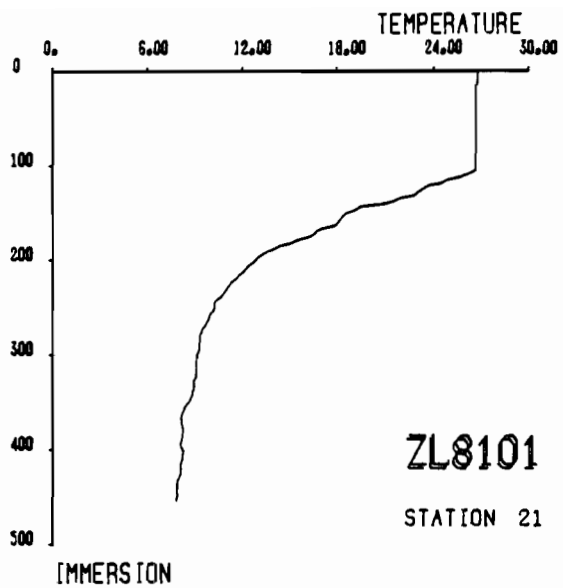
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 14 141  
 13 153  
 12 174  
 11 240  
 10 278

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 TEMP PROF

26 115  
 25 120  
 24 125  
 23 129  
 22 132  
 21 137  
 20 139  
 19 143  
 18 151  
 17 163  
 16 174  
 15 178  
 14 187  
 13 201  
 12 219  
 11 230  
 10 257  
 9 311



## STATION 21

24/ 7/81 18H 5 Z  
 LAT 5 26'S  
 LONG 33 13'W  
 T 3M : 26.8 C  
 T455M : 7.8 C

## STATION 22

25/ 7/81 0H 0 Z  
 LAT 7 6'S  
 LONG 33 40'W  
 T 3M : 26.3 C  
 T458M : 5.7 C

## STATION 23

25/ 7/81 6H 0 Z  
 LAT 8 42'S  
 LONG 34 28'W  
 T 3M : 25.8 C  
 T433M : 9.5 C

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 TEMP PROF

26 110  
 25 115  
 24 120  
 23 128  
 22 134  
 21 140  
 20 142  
 19 148  
 18 162  
 17 167  
 16 176  
 15 182  
 14 188  
 13 197  
 12 214  
 11 231  
 10 257  
 9 325  
 8 430

TEMP PROF

26 61  
 25 114  
 24 122  
 23 143  
 22 153  
 21 157  
 20 167  
 19 172  
 18 178  
 17 187  
 16 192  
 15 210  
 14 222  
 13 241  
 12 274  
 11 288  
 10 320  
 9 354  
 8 376  
 7 402  
 6 431

TEMP PROF

25 83  
 24 144  
 23 152  
 22 158  
 21 167  
 20 185  
 19 193  
 18 205  
 17 215  
 16 226  
 15 238  
 14 254  
 13 296  
 12 309  
 11 362  
 10 399

## STATION 24

25/ 7/81 12H 0 Z  
 LAT 10 18'S  
 LONG 35 12'W  
 T 3M : 25.6 C  
 T455M : 8.0 C

## STATION 25

25/ 7/81 18H 0 Z  
 LAT 11 42'S  
 LONG 35 48'W  
 T 3M : 25.5 C  
 T455M : 7.1 C

## STATION 26

26/ 7/81 0H 0 Z  
 LAT 13 11'S  
 LONG 36 30'W  
 T 3M : 25.2 C  
 T436M : 7.8 C

-----  
 TEMP PROF

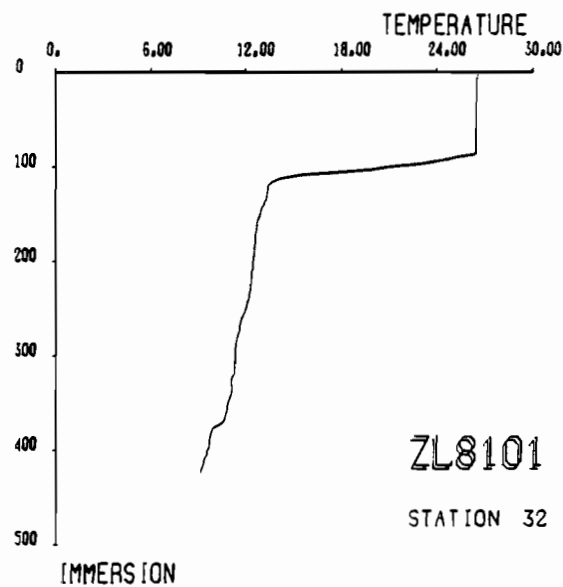
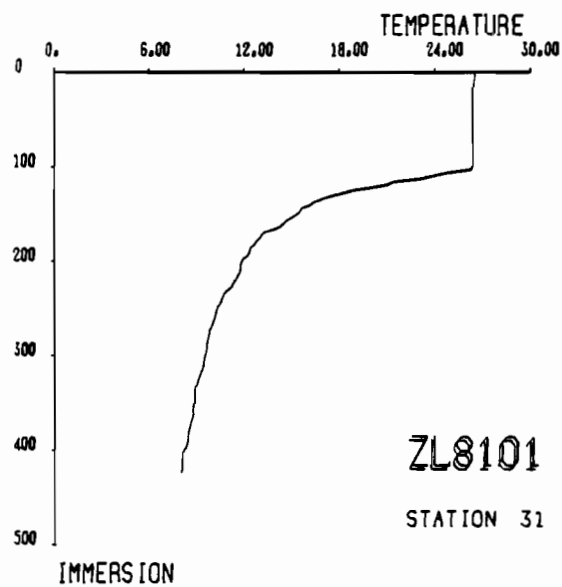
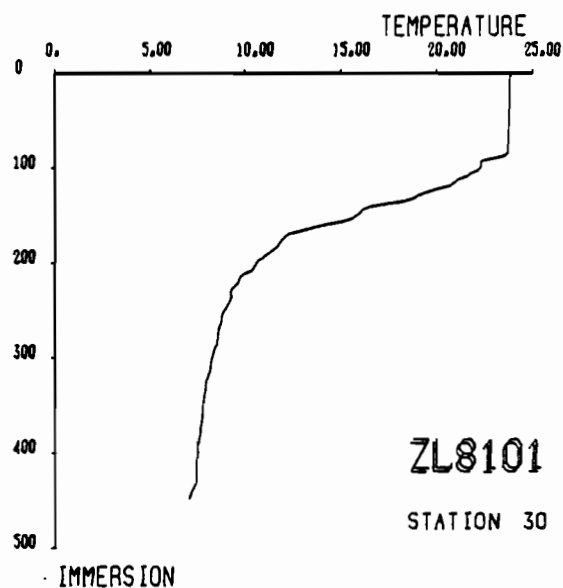
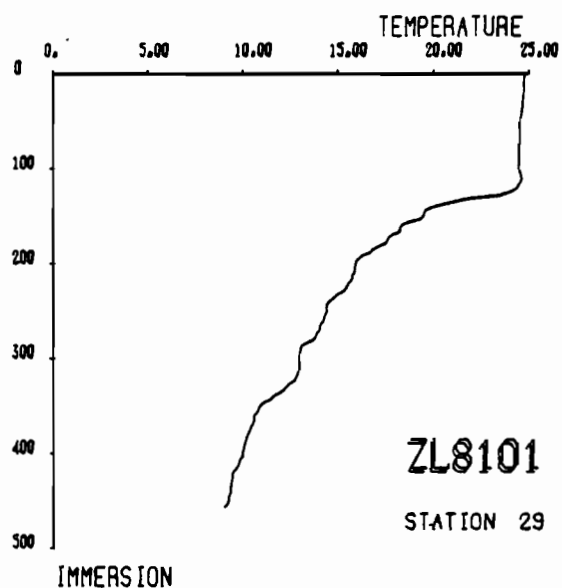
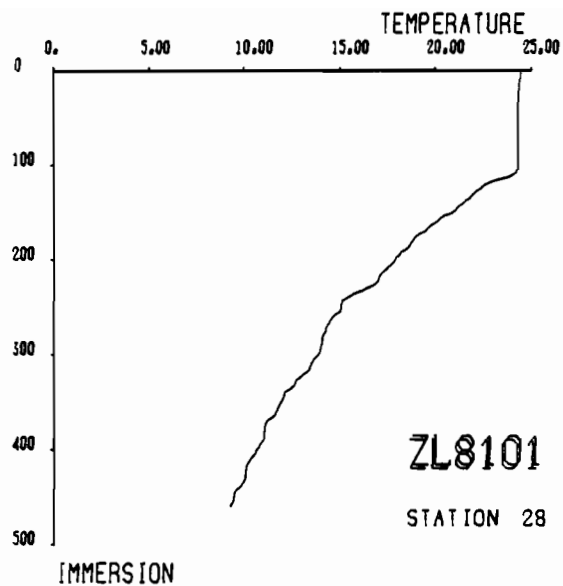
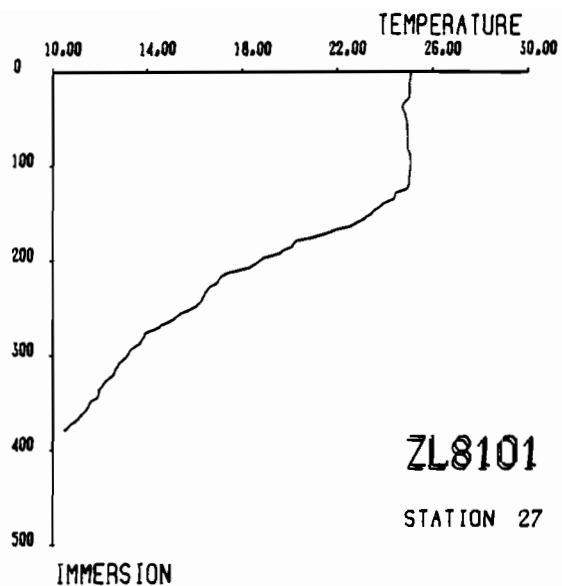
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 8 455

TEMP PROF

25 107  
 24 118  
 23 144  
 22 157  
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 19 206  
 18 213  
 17 223  
 16 245  
 15 258  
 14 271  
 13 289  
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 9 392  
 8 424

TEMP PROF

25 126  
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 22 170  
 21 178  
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 19 195  
 18 207  
 17 223  
 16 231  
 15 247  
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 13 288  
 12 315  
 11 339  
 10 368  
 9 396  
 8 422





## STATION 27

26/ 7/81 6H 0 Z  
 LAT 14 50'S  
 LONG 37 10'W  
 T 3M : 25.1 C  
 T380M : 10.5 C

## STATION 28

26/ 7/81 12H 0 Z  
 LAT 16 3'S  
 LONG 37 7'W  
 T 3M : 24.4 C  
 T461M : 9.2 C

## STATION 29

30/ 8/81 12H 0 Z  
 LAT 11 54'S  
 LONG 37 16'W  
 T 3M : 24.7 C  
 T458M : 9.0 C

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 TEMP PROF

25 27  
 24 138  
 23 157  
 22 166  
 21 175  
 20 186  
 19 196  
 18 209  
 17 221  
 16 249  
 15 263  
 14 275  
 13 304  
 12 335  
 11 368

TEMP PROF

24 110  
 23 116  
 22 129  
 21 148  
 20 160  
 19 174  
 18 196  
 17 220  
 16 233  
 15 247  
 14 290  
 13 321  
 12 344  
 11 384  
 10 433

TEMP PROF

24 125  
 23 129  
 22 131  
 21 135  
 20 140  
 19 155  
 18 168  
 17 182  
 16 196  
 15 232  
 14 269  
 13 286  
 12 335  
 11 348  
 10 396  
 9 457

## STATION 30

31/ 8/81 12H 0 Z  
 LAT 5 45'S  
 LONG 33 31'W  
 T 3M : 23.8 C  
 T449M : 7.0 C

## STATION 31

31/ 8/81 18H 0 Z  
 LAT 4 36'S  
 LONG 32 34'W  
 T 3M : 26.5 C  
 T424M : 8.0 C

## STATION 32

1/ 9/81 0H 0 Z  
 LAT 2 52'S  
 LONG 32 0'W  
 T 3M : 26.5 C  
 T424M : 9.1 C

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 TEMP PROF

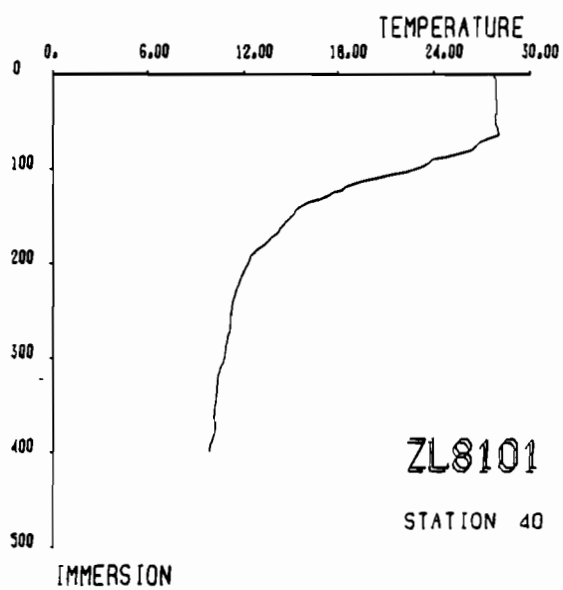
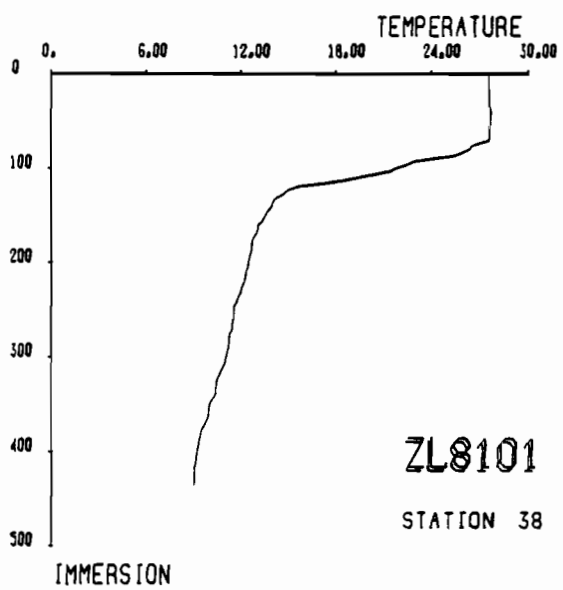
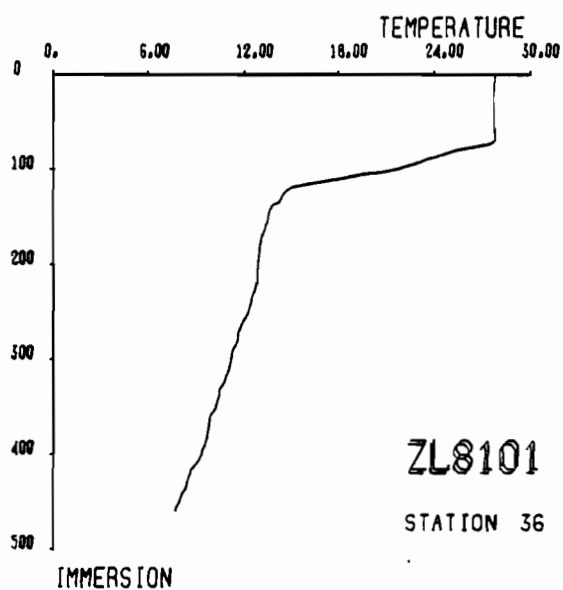
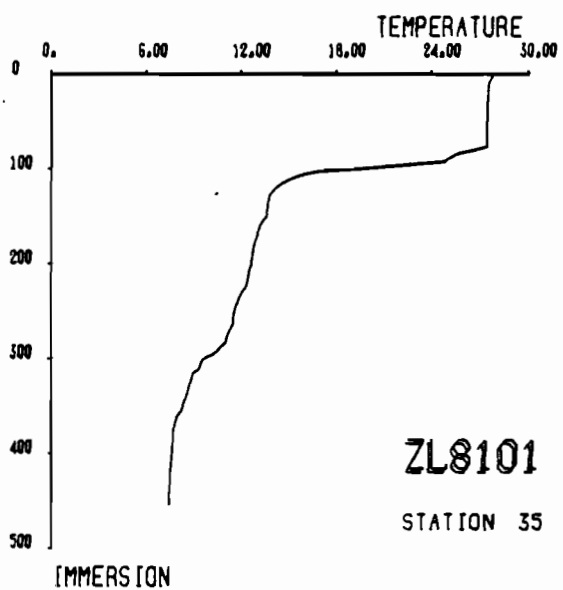
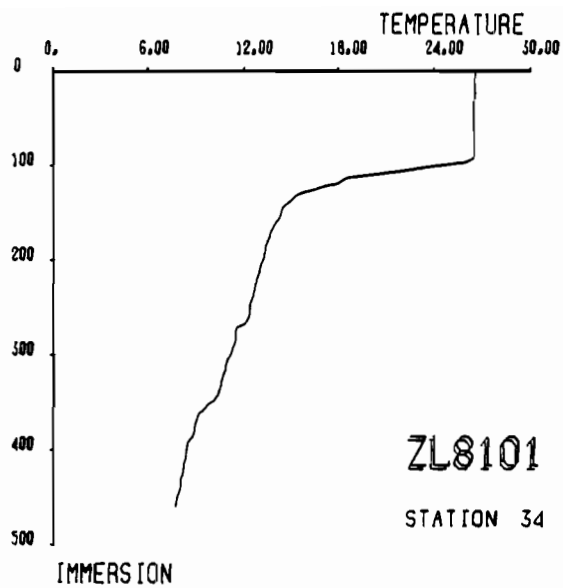
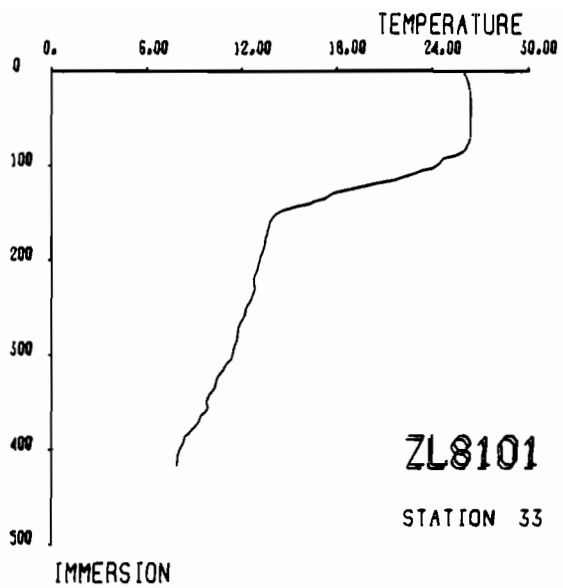
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 9 247  
 8 323

TEMP PROF

26 103  
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TEMP PROF

26 88  
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 18 105  
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 14 113  
 13 143  
 12 250  
 11 344  
 10 376



## STATION 33

1/ 9/81 6H 0 Z  
 LAT 1 13'S  
 LONG 31 19'W  
 T 3M : 26.0 C  
 T418M : 7.9 C

## STATION 34

1/ 9/81 12H.0 Z  
 LAT 0 28'N  
 LONG 30 37'W  
 T 3M : 26.5 C  
 T461M : 7.7 C

## STATION 35

1/ 9/81 18H 0 Z  
 LAT 2 6'N  
 LONG 29 53'W  
 T 3M : 27.8 C  
 T455M : 7.4 C

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TEMP PROF

26 84  
 25 91  
 24 102  
 23 108  
 22 113  
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 20 121  
 19 124  
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 17 136  
 16 141  
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 12 265  
 11 310  
 10 341  
 9 377  
 8 406

TEMP PROF

26 95  
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 23 102  
 22 105  
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 10 349  
 9 369  
 8 439

TEMP PROF

27 78  
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 20 99  
 19 100  
 18 101  
 17 102  
 16 106  
 15 112  
 14 123  
 13 170  
 12 231  
 11 283  
 10 297  
 9 314  
 8 359

## STATION 36

2/ 9/81 0H 0 Z  
 LAT 3 38'N  
 LONG 29 16'W  
 T 3M : 27.7 C  
 T461M : 7.7 C

## STATION 38

2/ 9/81 6H 0 Z  
 LAT 4 23'N  
 LONG 28 29'W  
 T 3M : 27.6 C  
 T436M : 9.0 C

## STATION 40

2/ 9/81 12H 0 Z  
 LAT 6 45'N  
 LONG 27 55'W  
 T 3M : 27.8 C  
 T399M : 9.9 C

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TEMP PROF

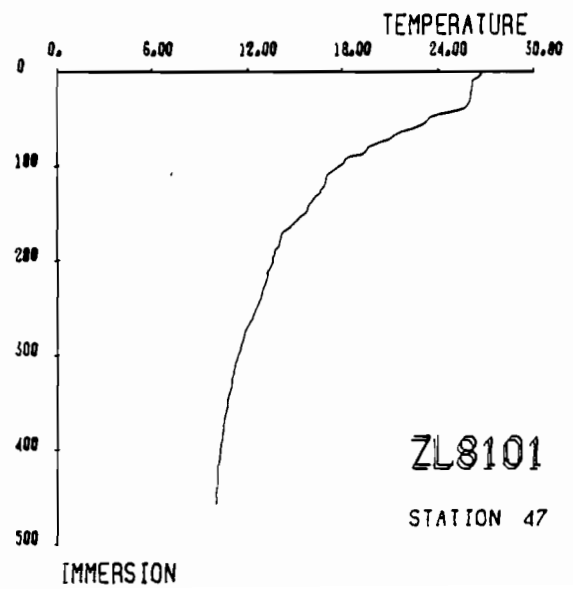
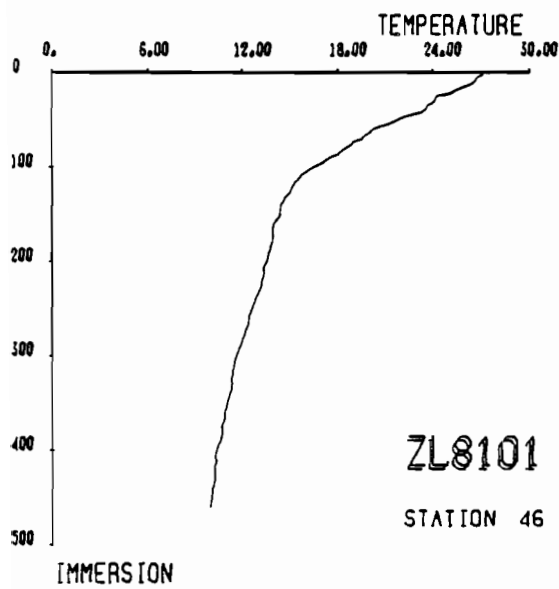
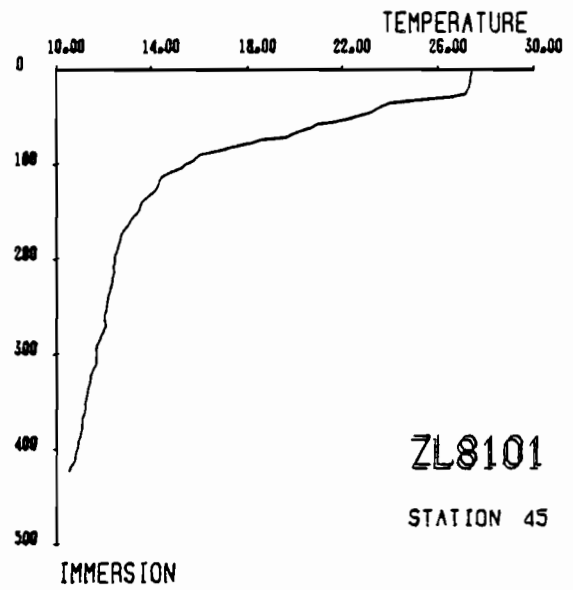
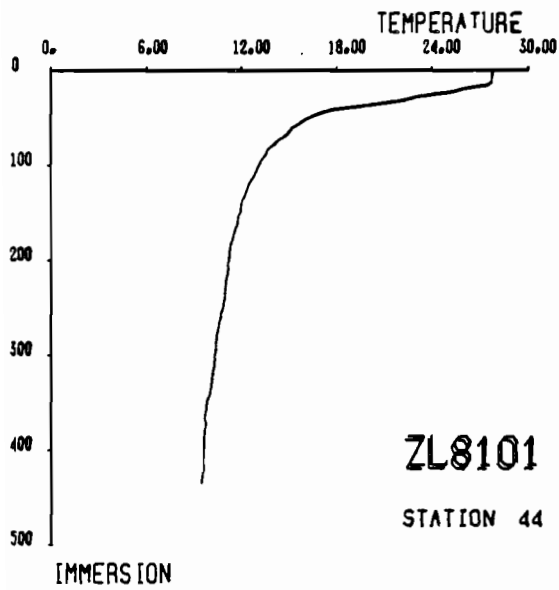
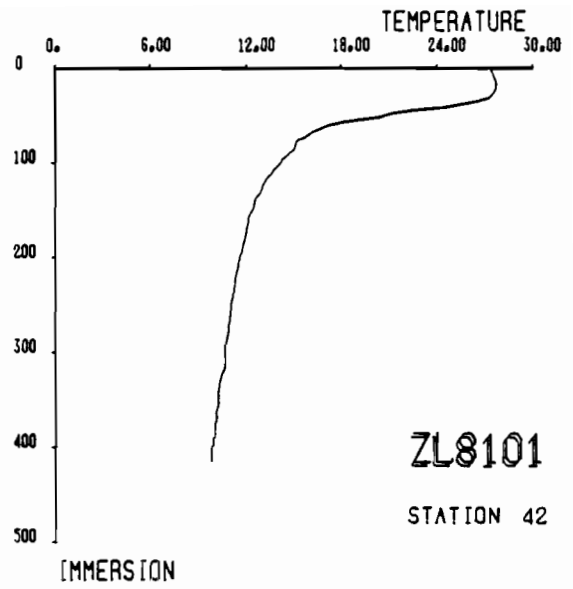
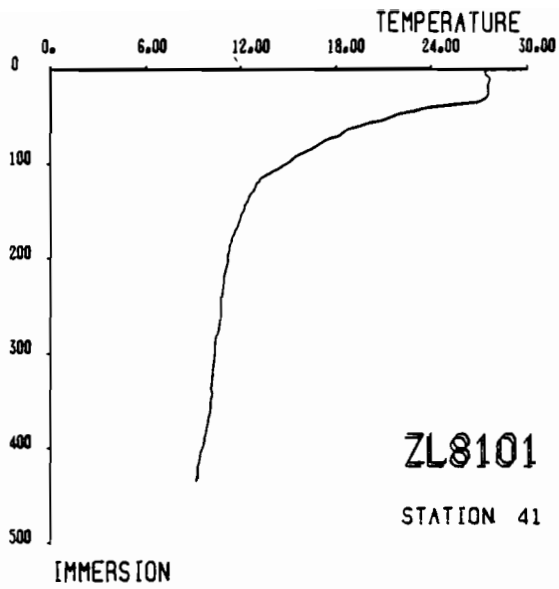
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 10 356  
 9 410  
 8 448

TEMP PROF

27 73  
 26 82  
 25 87  
 24 90  
 23 92  
 22 98  
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 11 304  
 10 350  
 9 434

TEMP PROF

27 70  
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 21 106  
 20 111  
 19 115  
 18 123  
 17 130  
 16 135  
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 14 169  
 13 182  
 12 208  
 11 277  
 10 388



## STATION 41

2/ 9/81 18H 0 Z  
 LAT 8 24'N  
 LONG 27 6'W  
 T 3M : 27.4 C  
 T436M : 9.2 C

## STATION 42

3/ 9/81 0H 0 Z  
 LAT 9 58'N  
 LONG 26 25'W  
 T 3M : 27.4 C  
 T415M : 9.8 C

## STATION 44

3/ 9/81 6H 0 Z  
 LAT 11 40'N  
 LONG 25 45'W  
 T 3M : 27.8 C  
 T436M : 9.5 C

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TEMP PROF

27 34  
 26 36  
 25 38  
 24 41  
 23 44  
 22 47  
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 10 366

TEMP PROF

27 32  
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 24 42  
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 14 102  
 13 123  
 12 168  
 11 250  
 10 377

TEMP PROF

27 17  
 26 19  
 25 23  
 24 26  
 23 28  
 22 32  
 21 34  
 20 36  
 19 38  
 18 41  
 17 45  
 16 51  
 15 63  
 14 78  
 13 104  
 12 141  
 11 225  
 10 340

## STATION 45

3/ 9/81 12H 0 Z  
 LAT 13 4'N  
 LONG 24 51'W  
 T 3M : 27.4 C  
 T424M : 10.5 C

## STATION 46

3/ 9/81 18H 0 Z  
 LAT 14 38'N  
 LONG 24 20'W  
 T 3M : 27.1 C  
 T461M : 9.9 C

## STATION 47

4/ 9/81 0H 0 Z  
 LAT 15 58'N  
 LONG 23 36'W  
 T 3M : 26.6 C  
 T458M : 10.0 C

-----

TEMP PROF

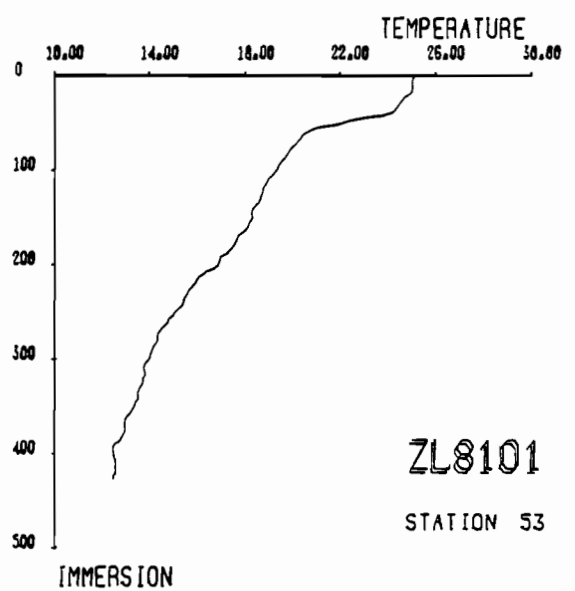
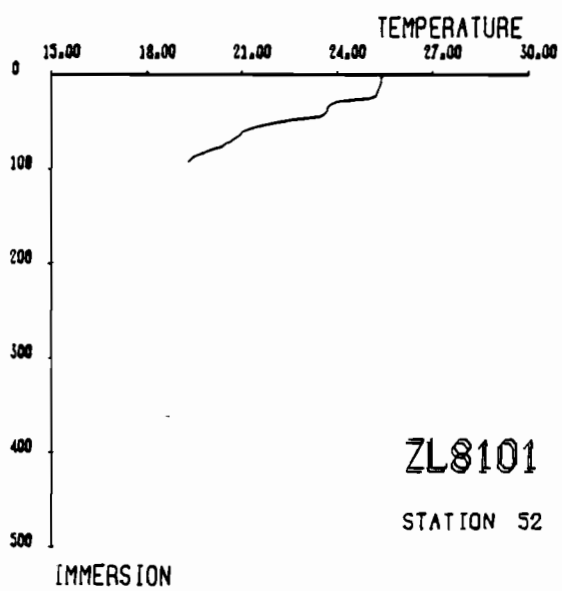
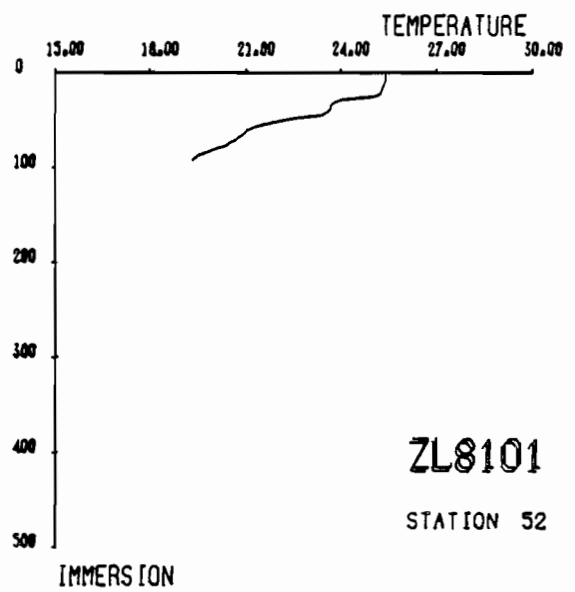
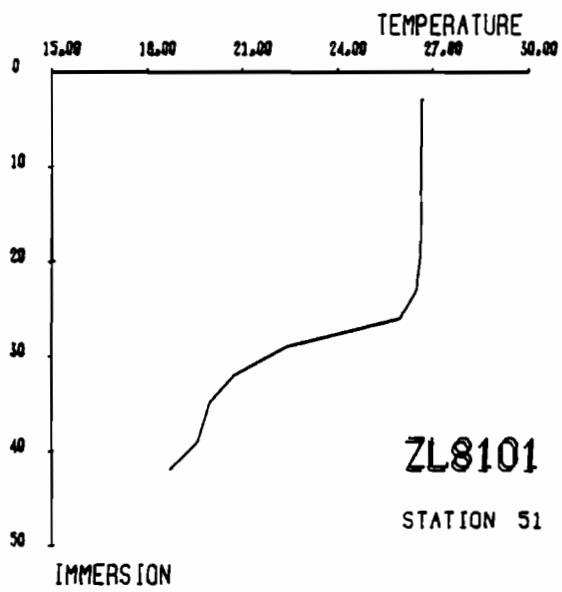
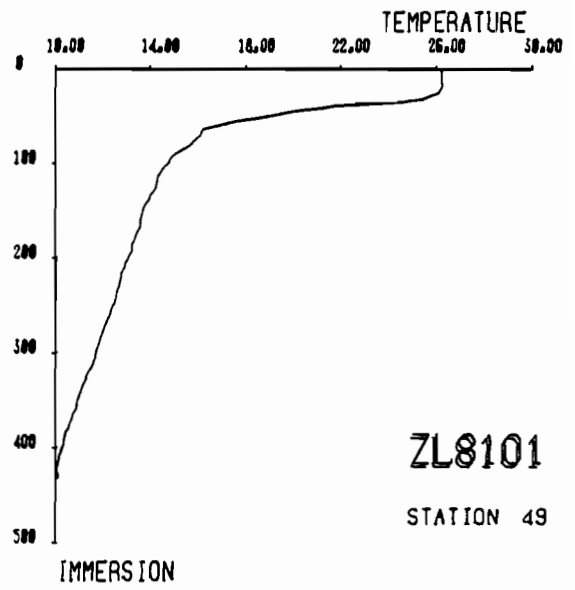
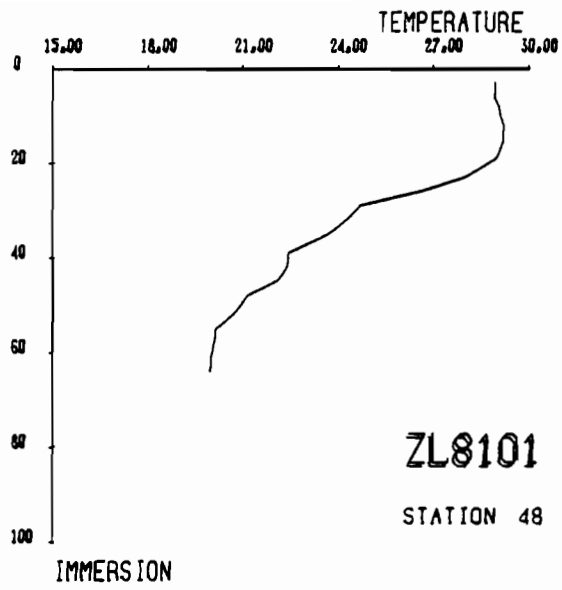
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 18 77  
 17 84  
 16 91  
 15 106  
 14 131  
 13 164  
 12 262  
 11 384

TEMP PROF

27 3  
 26 15  
 25 23  
 24 32  
 23 43  
 22 48  
 21 55  
 20 63  
 19 73  
 18 86  
 17 95  
 16 104  
 15 126  
 14 157  
 13 233  
 12 282  
 11 350  
 10 452

TEMP PROF

26 27  
 25 41  
 24 45  
 23 55  
 22 62  
 21 69  
 20 76  
 19 87  
 18 97  
 17 108  
 16 137  
 15 158  
 14 176  
 13 225  
 12 268  
 11 324  
 10 446



## STATION 48

4/ 9/81 6H 0 Z  
 LAT 17 34'N  
 LONG 22 42'W  
 T 3M : 28.9 C  
 T 64M : 20.0 C

## STATION 49

4/ 9/81 9H 0 Z  
 LAT 18 8'N  
 LONG 22 22'W  
 T 3M : 26.2 C  
 T433M : 10.0 C

## STATION 51

4/ 9/81 12H 0 Z  
 LAT 18 50'N  
 LONG 21 56'W  
 T 3M : 26.6 C  
 T 42M : 18.7 C

-----  
 TEMP PROF

28 22  
 27 25  
 26 26  
 25 28  
 24 33  
 23 37  
 22 45  
 21 49  
 20 63

TEMP PROF

26 26  
 25 33  
 24 35  
 23 37  
 22 38  
 21 42  
 20 45  
 19 49  
 18 53  
 17 59  
 16 72  
 15 91  
 14 133  
 13 204  
 12 280  
 11 345

TEMP PROF

26 25  
 25 26  
 24 27  
 23 28  
 22 29  
 21 31  
 20 34  
 19 41

## STATION 52

4/ 9/81 15H 0 Z  
 LAT 19 33'N  
 LONG 21 36'W  
 T 3M : 25.4 C  
 T 93M : 19.3 C

## STATION 53

4/ 9/81 18H 0 Z  
 LAT 20 10'N  
 LONG 21 10'W  
 T 3M : 25.0 C  
 T427M : 12.5 C

## STATION 54

4/ 9/81 21H 0 Z  
 LAT 20 55'N  
 LONG 20 59'W  
 T 3M : 24.4 C  
 T 52M : 22.8 C

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 TEMP PROF

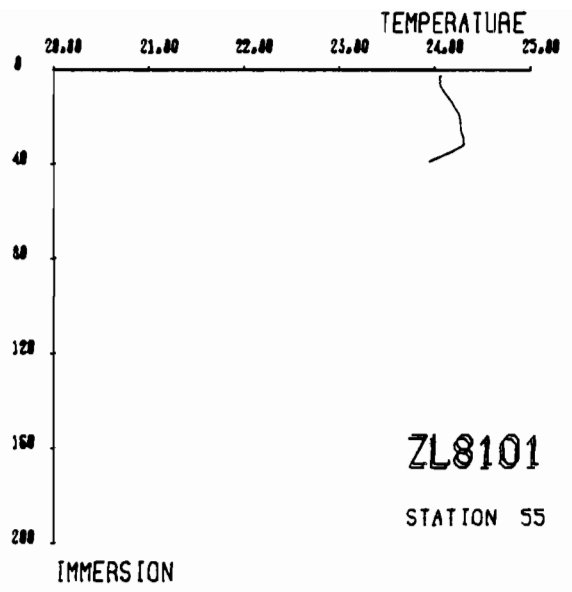
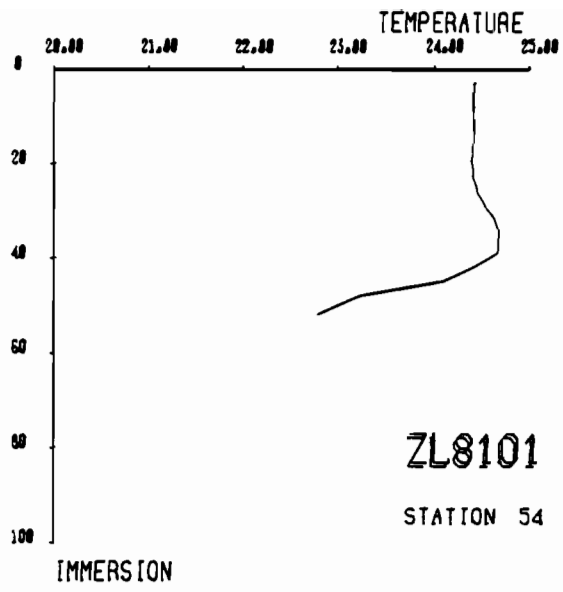
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 20 80

TEMP PROF

25 17  
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 23 45  
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 17 191  
 16 214  
 15 252  
 14 300  
 13 363

TEMP PROF

24 45  
 23 50



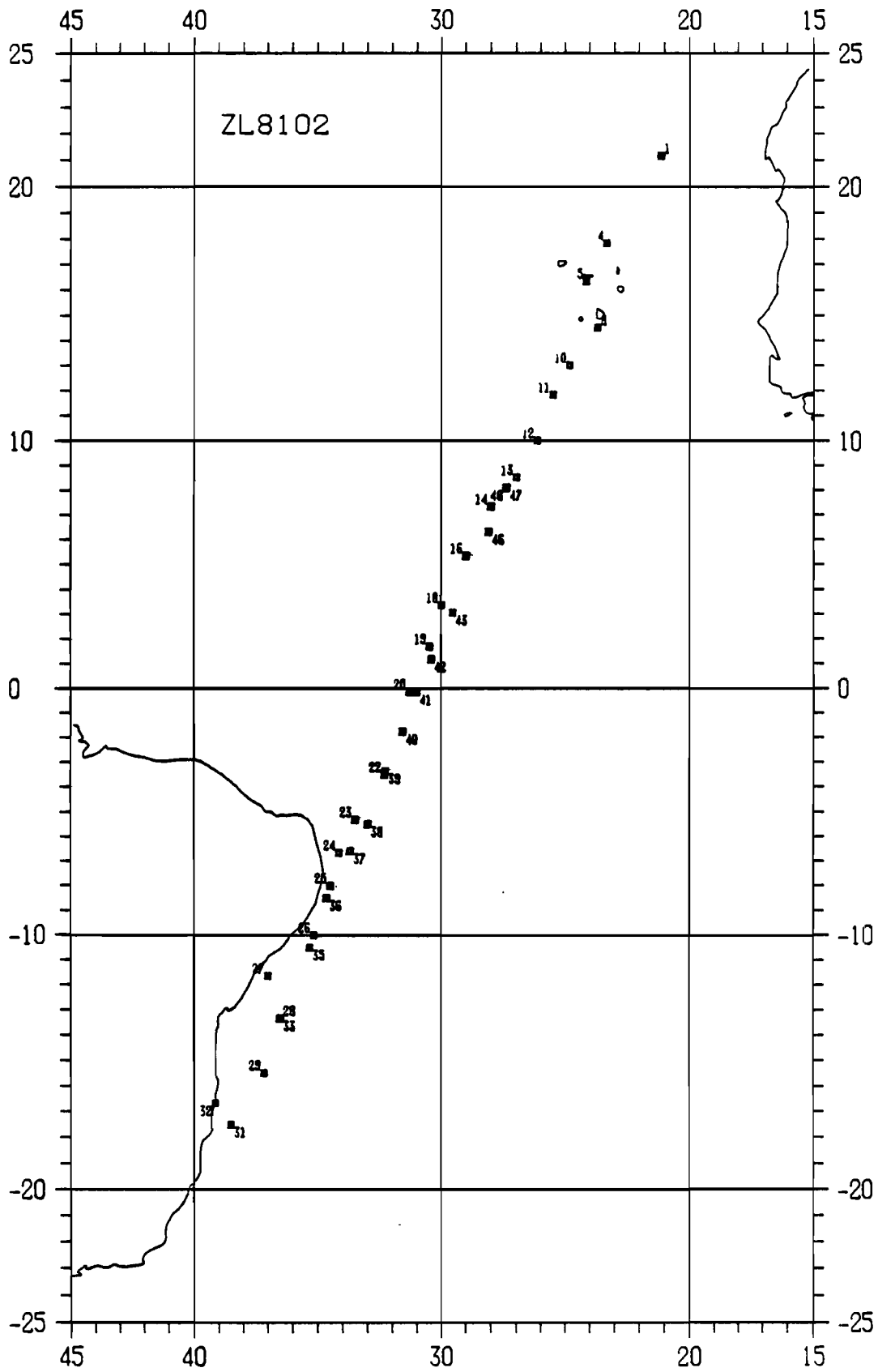


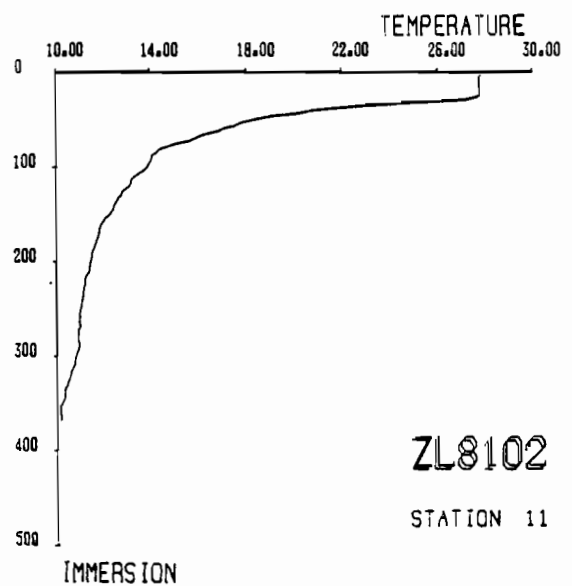
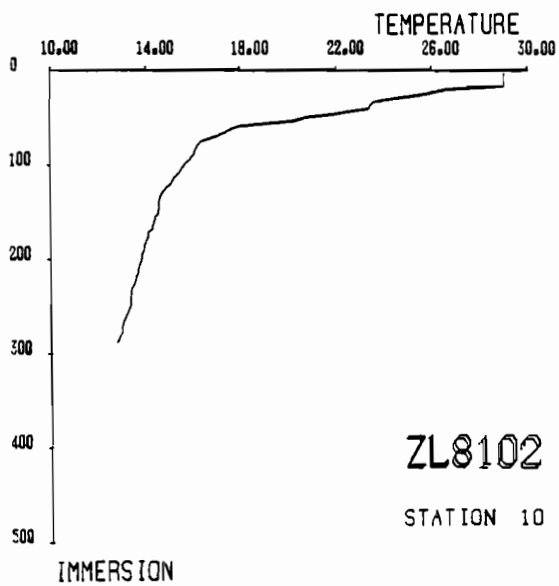
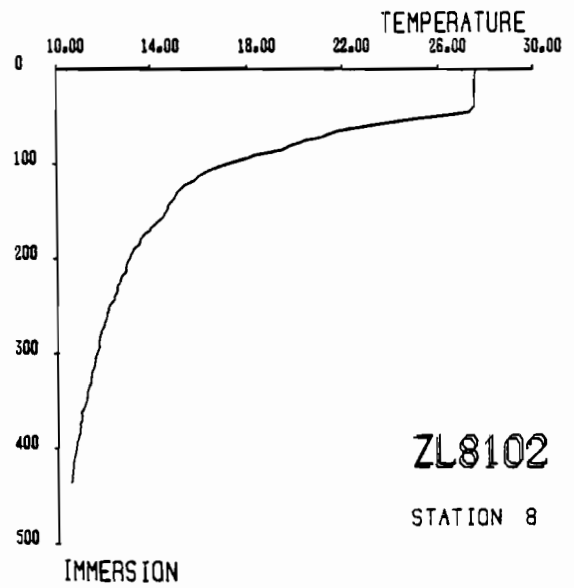
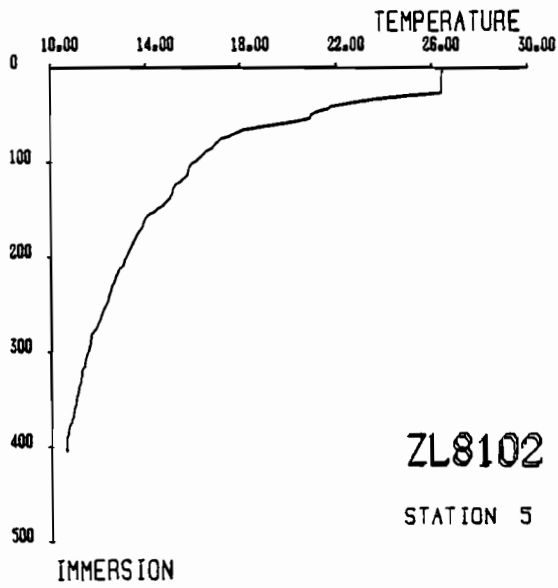
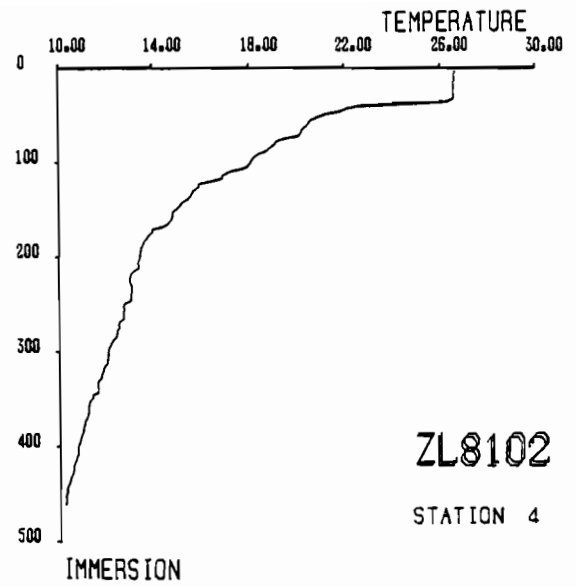
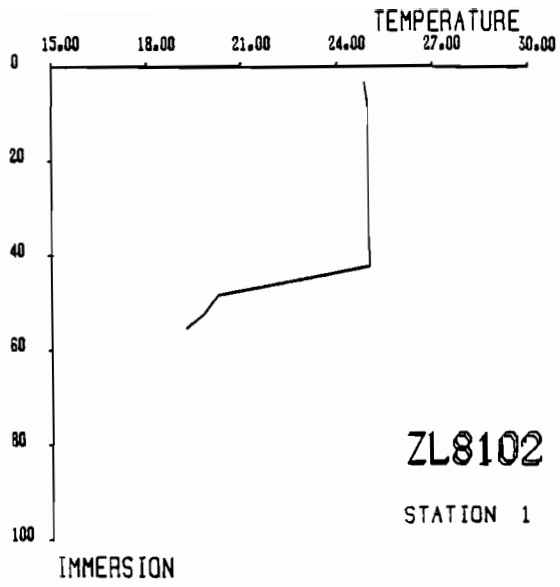
STATION 55

5/ 9/81 0H 0 Z  
LAT 21 36'H  
LONG 20 35'W  
T 3M : 24.0 C  
T 39M : 23.9 C

-----  
TEMP PROF  
24 37







## STATION 1

7/10/81 12H 0 Z  
 LAT 20 70'N  
 LONG 21 10'W  
 T 3M : 24.9 C  
 T 55M : 19.2 C

## STATION 4

8/10/81 0H 0 Z  
 LAT 17 50'N  
 LONG 22 80'W  
 T 3M : 26.6 C  
 T 461M : 10.2 C

## STATION 5

8/10/81 6H 0 Z  
 LAT 15 80'N  
 LONG 23 70'W  
 T 3M : 26.5 C  
 T 405M : 10.6 C

TEMP PROF

24 43  
 23 44  
 22 45  
 21 47  
 20 50

TEMP PROF

26 35  
 25 36  
 24 37  
 23 38  
 22 43  
 21 49  
 20 70  
 19 80  
 18 100  
 17 110  
 16 121  
 15 146  
 14 169  
 13 222  
 12 312  
 11 378

TEMP PROF

26 26  
 25 28  
 24 31  
 23 34  
 22 37  
 21 46  
 20 56  
 19 60  
 18 64  
 17 77  
 16 98  
 15 133  
 14 155  
 13 206  
 12 265  
 11 348

## STATION 8

8/10/81 12H 0 Z  
 LAT 14 30'N  
 LONG 23 42'W  
 T 3M : 27.6 C  
 T 436M : 10.5 C

## STATION 10

8/10/81 18H 0 Z  
 LAT 13 0'N  
 LONG 24 50'W  
 T 3M : 29.0 C  
 T 287M : 12.7 C

## STATION 11

9/10/81 0H 0 Z  
 LAT 11 50'N  
 LONG 25 30'W  
 T 3M : 27.8 C  
 T 368M : 10.1 C

TEMP PROF

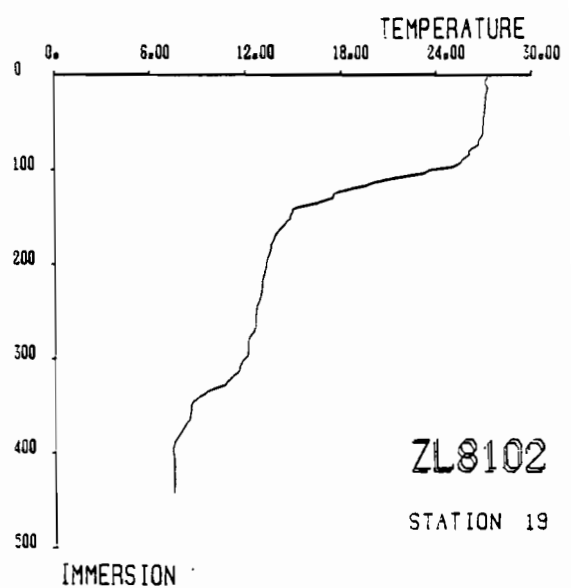
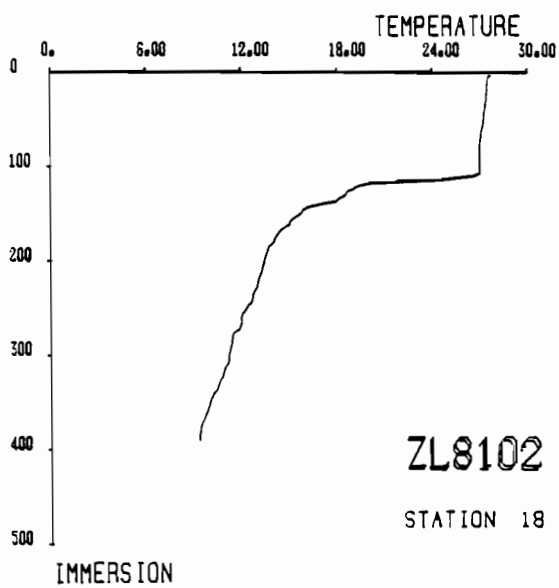
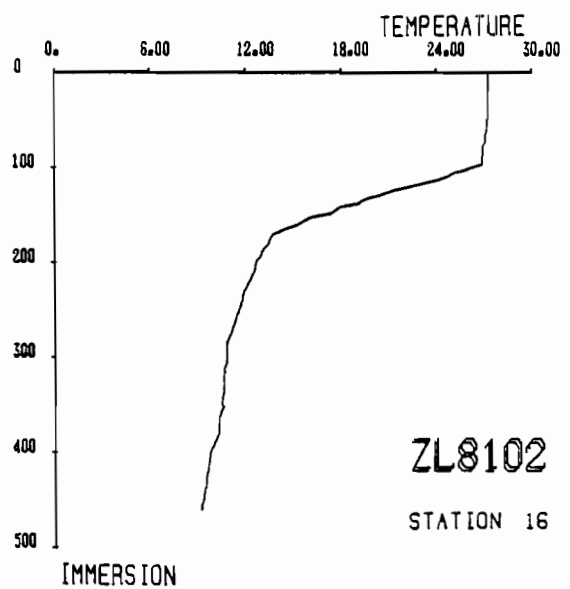
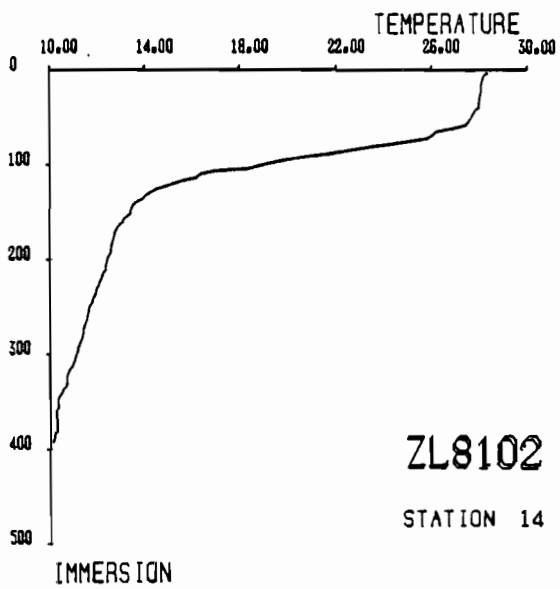
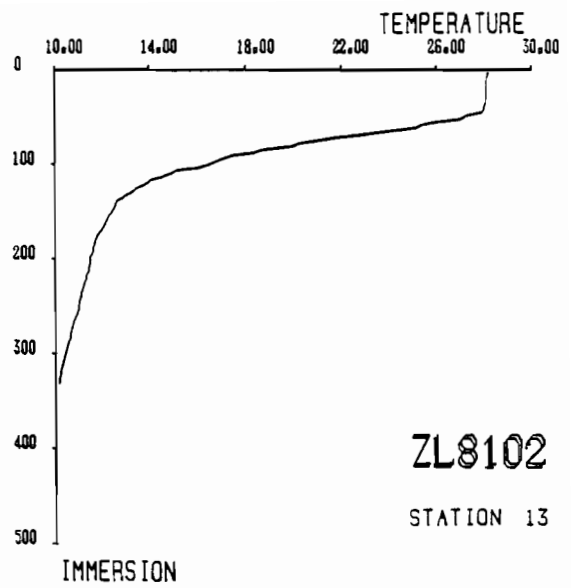
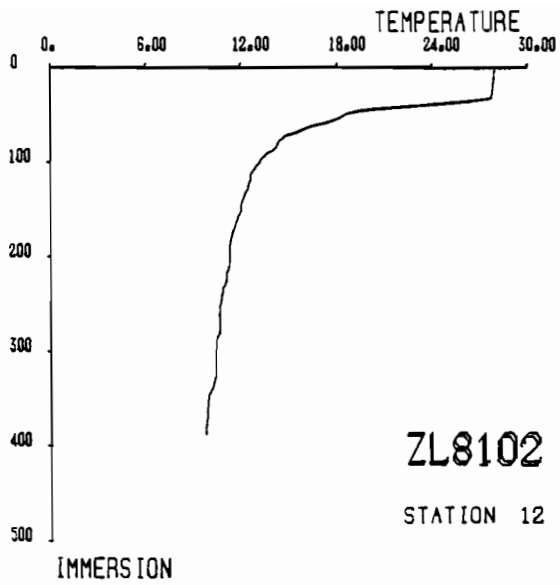
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 14 165  
 13 202  
 12 266  
 11 359

TEMP PROF

29 16  
 28 17  
 27 18  
 26 22  
 25 26  
 24 30  
 23 40  
 22 44  
 21 47  
 20 52  
 19 54  
 18 57  
 17 67  
 16 87  
 15 118  
 14 178  
 13 265

TEMP PROF

27 29  
 26 30  
 25 31  
 24 32  
 23 34  
 22 36  
 21 38  
 20 42  
 19 45  
 18 50  
 17 58  
 16 66  
 15 74  
 14 93  
 13 121  
 12 156  
 11 248



## STATION 12

9/10/81 6H 0 Z  
 LAT 10 0'N  
 LONG 26 10'W  
 T 3M : 27.9 C  
 T387M : 9.7 C

## STATION 13

9/10/81 12H 0 Z  
 LAT 8 30'N  
 LONG 27 0'W  
 T 3M : 28.1 C  
 T331M : 10.1 C

## STATION 14

9/10/81 18H 0 Z  
 LAT 7 20'N  
 LONG 27 60'W  
 T 3M : 28.3 C  
 T393M : 10.1 C

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 TEMP PROF

27 33  
 26 35  
 25 36  
 24 37  
 23 39  
 22 40  
 21 42  
 20 44  
 19 46  
 18 52  
 17 58  
 16 63  
 15 69  
 14 95  
 13 101  
 12 141  
 11 225  
 10 341

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 TEMP PROF

28 36  
 27 50  
 26 54  
 25 61  
 24 64  
 23 67  
 22 70  
 21 74  
 20 78  
 19 82  
 18 87  
 17 93  
 16 102  
 15 106  
 14 115  
 13 130  
 12 162  
 11 236

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 TEMP PROF

28 32  
 27 60  
 26 68  
 25 74  
 24 78  
 23 81  
 22 85  
 21 89  
 20 92  
 19 98  
 18 103  
 17 105  
 16 113  
 15 119  
 14 131  
 13 160  
 12 225  
 11 304

## STATION 16

10/10/81 6H 0 Z  
 LAT 5 20'N  
 LONG 28 60'W  
 T 3M : 27.2 C  
 T461M : 9.1 C

## STATION 18

10/10/81 12H 0 Z  
 LAT 2 80'N  
 LONG 29 60'W  
 T 3M : 27.6 C  
 T390M : 9.3 C

## STATION 19

10/10/81 18H 0 Z  
 LAT 1 40'N  
 LONG 30 30'W  
 T 3M : 27.1 C  
 T442M : 7.4 C

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 TEMP PROF

27 66  
 26 100  
 25 105  
 24 113  
 23 116  
 22 121  
 21 125  
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 15 160  
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 12 222  
 11 273  
 10 388

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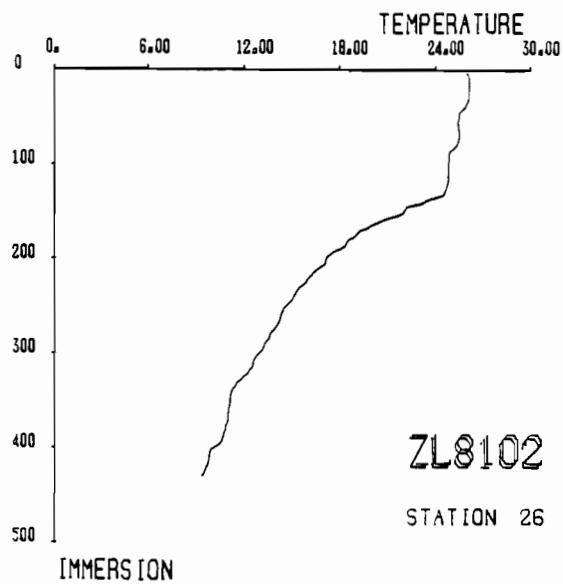
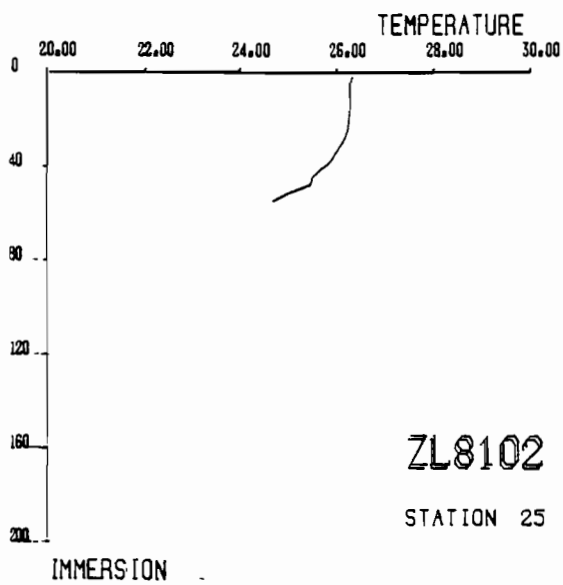
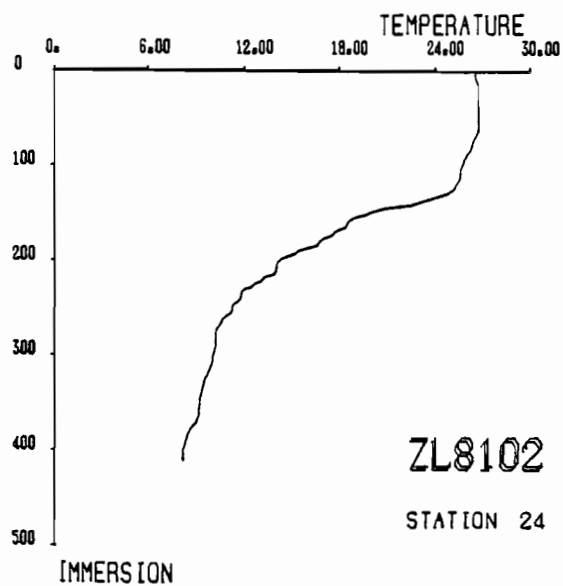
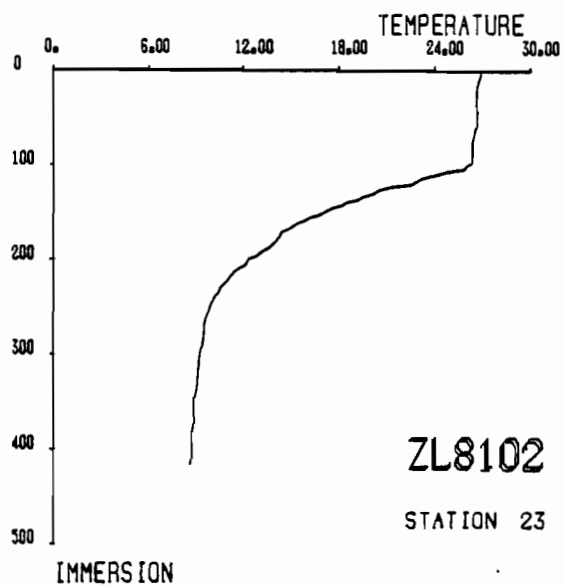
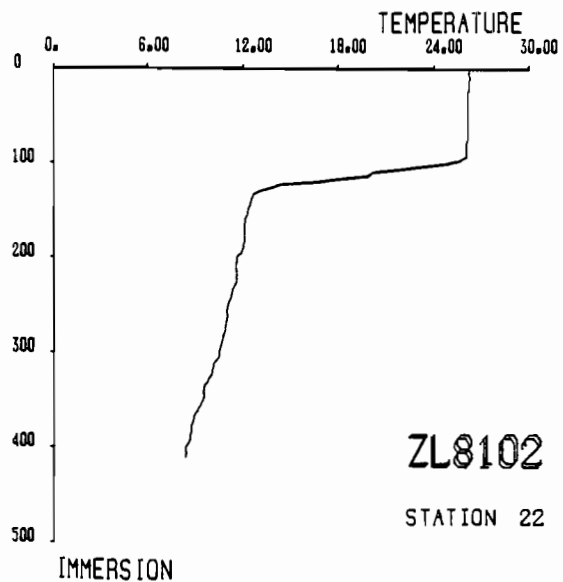
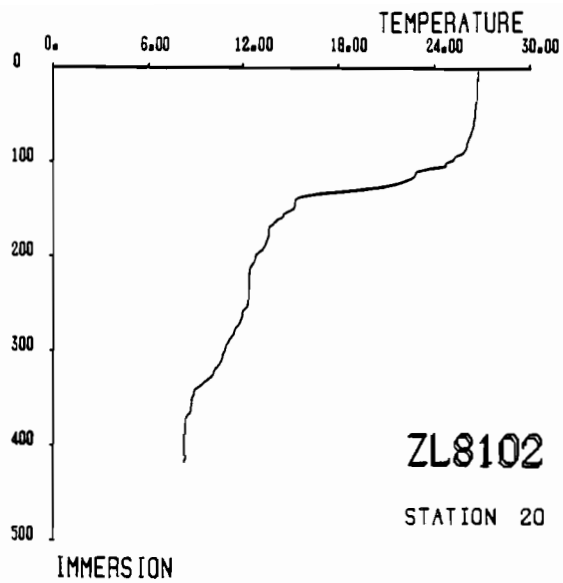
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 20 116  
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 16 142  
 15 156  
 14 176  
 13 221  
 12 254  
 11 310  
 10 345

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 TEMP PROF

27 30  
 26 79  
 25 96  
 24 98  
 23 103  
 22 105  
 21 109  
 20 112  
 19 117  
 18 121  
 17 130  
 16 135  
 15 140  
 14 162  
 13 212  
 12 296  
 11 320  
 10 330  
 9 339  
 8 372





## STATION 20

11/10/81 0H 0 Z  
 LAT 0 10'S  
 LONG 30 80'W  
 T 3M : 26.7 C  
 T418M : 8.2 C

## STATION 22

11/10/81 12H 0 Z  
 LAT 3 30'S  
 LONG 32 20'W  
 T 3M : 26.2 C  
 T411M : 8.3 C

## STATION 23

11/10/81 18H 0 Z  
 LAT 4 80'S  
 LONG 32 90'W  
 T 3M : 26.9 C  
 T415M : 8.5 C

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 TEMP PROF

26 84  
 25 97  
 24 105  
 23 108  
 22 119  
 21 124  
 20 126  
 19 128  
 18 130  
 17 131  
 16 133  
 15 148  
 14 159  
 13 193  
 12 255  
 11 290  
 10 325  
 9 338

TEMP PROF

26 93  
 25 99  
 24 101  
 23 103  
 22 105  
 21 107  
 20 110  
 19 114  
 18 115  
 17 117  
 16 119  
 15 120  
 14 123  
 13 128  
 12 179  
 11 247  
 10 316  
 9 362

TEMP PROF

26 99  
 25 105  
 24 109  
 23 114  
 22 120  
 21 122  
 20 129  
 19 135  
 18 141  
 17 147  
 16 154  
 15 162  
 14 176  
 13 190  
 12 205  
 11 219  
 10 242  
 9 331

## STATION 24

12/10/81 0H 0 Z  
 LAT 6 40'S  
 LONG 33 70'W  
 T 3M : 26.5 C  
 T411M : 8.0 C

## STATION 25

12/10/81 6H 0 Z  
 LAT 8 0'S  
 LONG 34 30'W  
 T 3M : 26.3 C  
 T 55M : 24.6 C

## STATION 26

12/10/81 12H 0 Z  
 LAT 9 60'S  
 LONG 35 10'W  
 T 3M : 26.0 C  
 T430M : 9.2 C

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 TEMP PROF

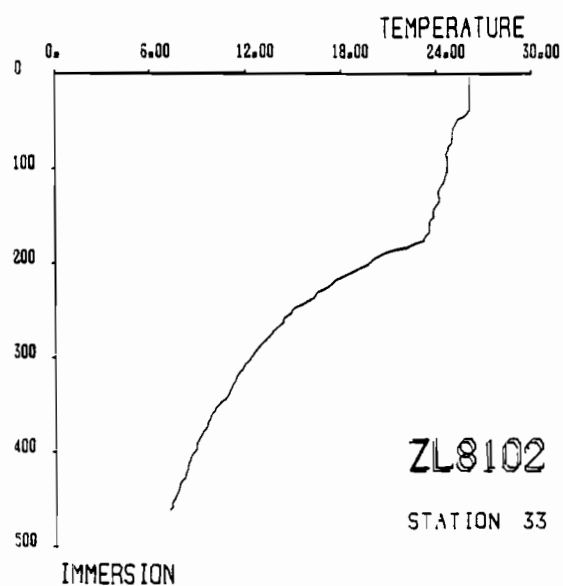
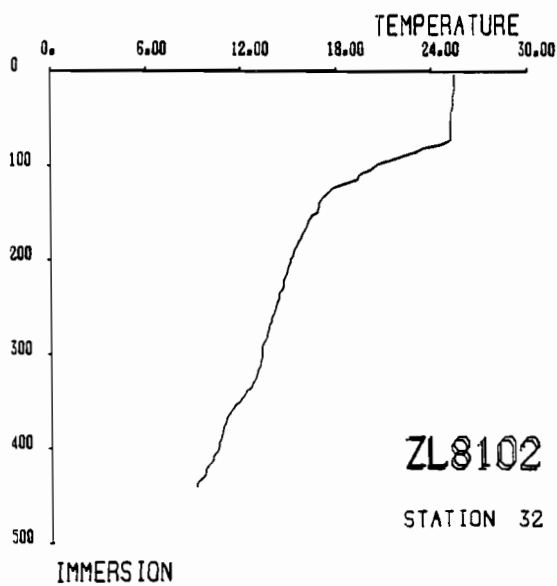
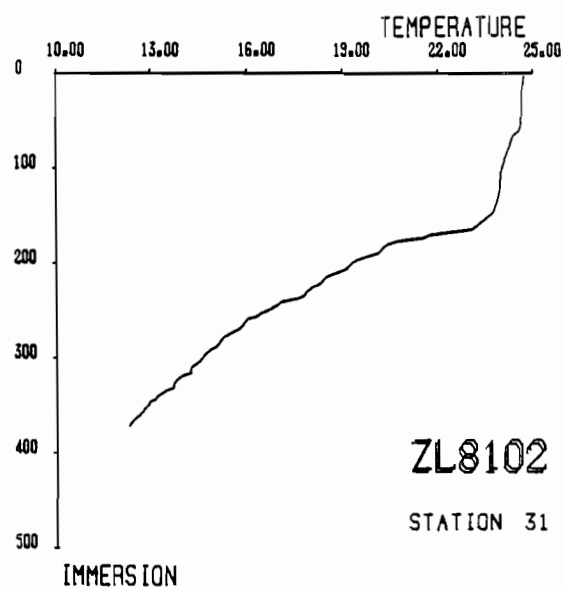
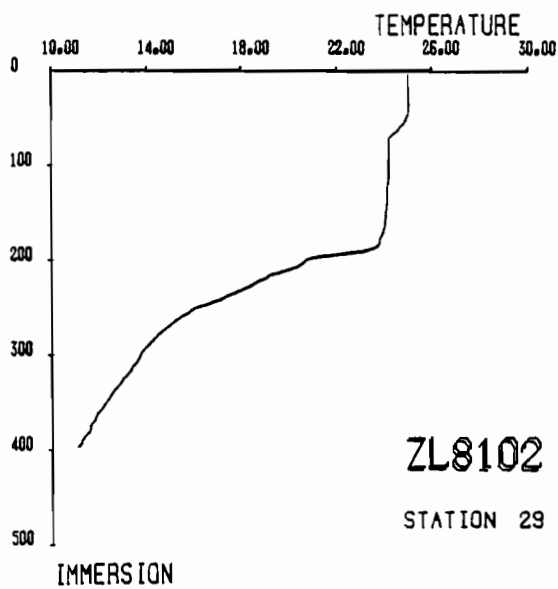
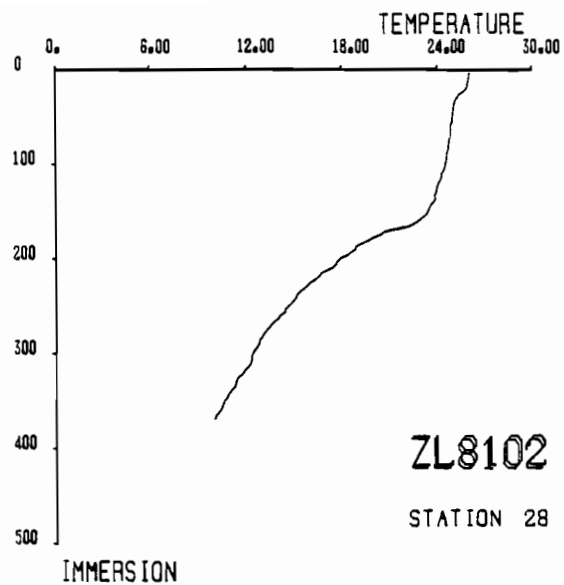
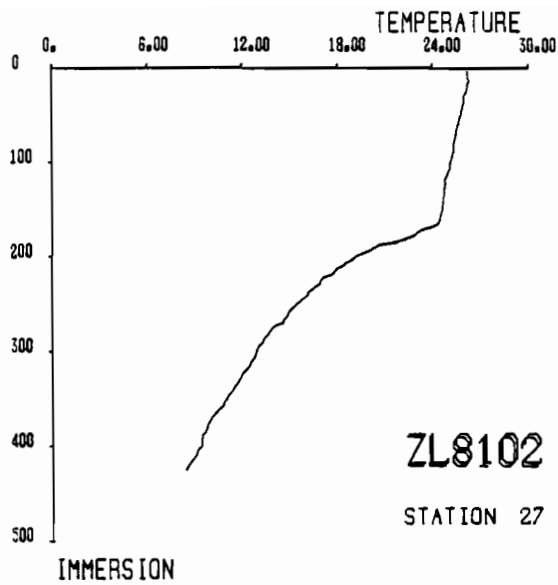
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 13 220  
 12 229  
 11 255  
 10 295  
 9 362

TEMP PROF

26 32  
 25 51

TEMP PROF

26 34  
 25 84  
 24 133  
 23 141  
 22 147  
 21 156  
 20 163  
 19 173  
 18 188  
 17 203  
 16 218  
 15 239  
 14 268  
 13 296  
 12 322  
 11 349  
 10 398



## STATION 27

12/10/81 18H 0 Z  
 LAT 11 40'S  
 LONG 36 60'W  
 T 3M : 26.2 C  
 T424M : 8.3 C

## STATION 28

13/10/81 0H 0 Z  
 LAT 13 20'S  
 LONG 36 30'W  
 T 3M : 26.0 C  
 T368M : 9.9 C

## STATION 29

13/10/81 6H 0 Z  
 LAT 14 90'S  
 LONG 37 10'W  
 T 3M : 25.0 C  
 T396M : 11.1 C

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TEMP	PROF
26	28
25	108
24	166
23	172
22	180
21	184
20	191
19	199
18	209
17	220
16	238
15	254
14	271
13	292
12	321
11	347
10	368
9	408

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TEMP	PROF
26	8
25	39
24	122
23	156
22	164
21	168
20	175
19	184
18	197
17	210
16	223
15	240
14	259
13	278
12	312
11	336
10	365

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TEMP	PROF
25	45
24	163
23	189
22	192
21	194
20	207
19	217
18	229
17	240
16	248
15	265
14	287
13	322
12	357

## STATION 31

13/10/81 12H 0 Z  
 LAT 16 90'S  
 LONG 37 90'W  
 T 3M : 24.7 C  
 T371M : 12.3 C

## STATION 32

12/11/81 12H 0 Z  
 LAT 16 40'S  
 LONG 38 70'W  
 T 3M : 25.5 C  
 T439M : 9.1 C

## STATION 33

12/11/81 0H 0 Z  
 LAT 13 20'S  
 LONG 36 30'W  
 T 3M : 26.1 C  
 T461M : 7.2 C

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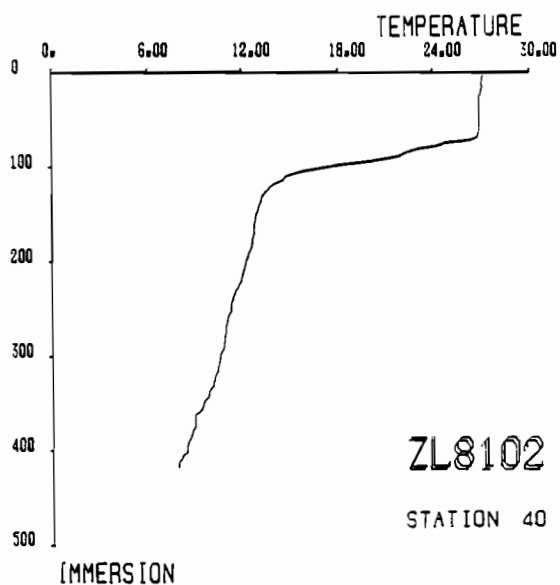
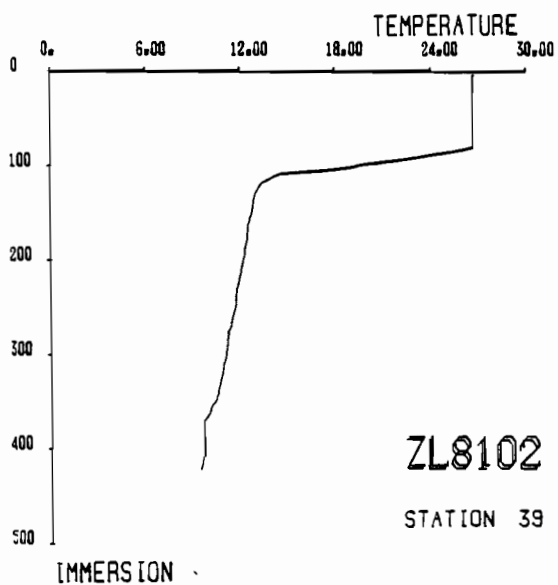
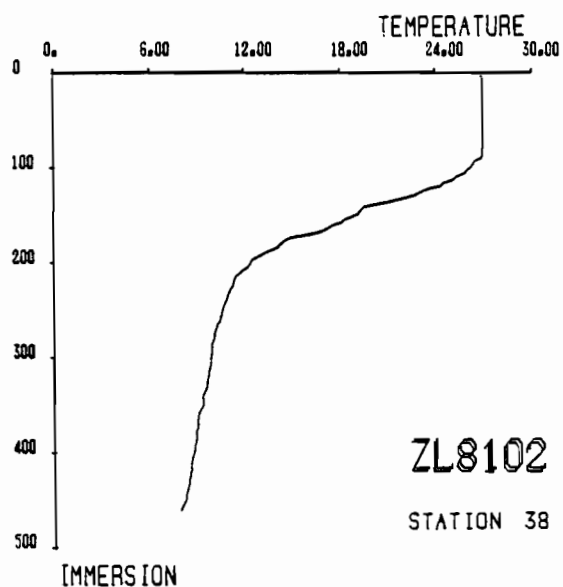
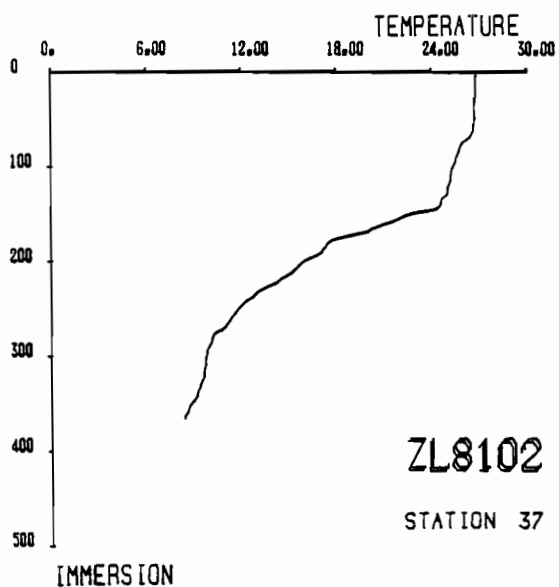
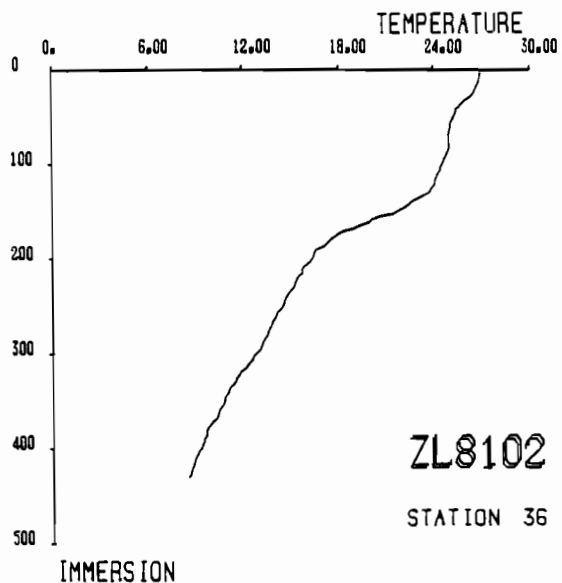
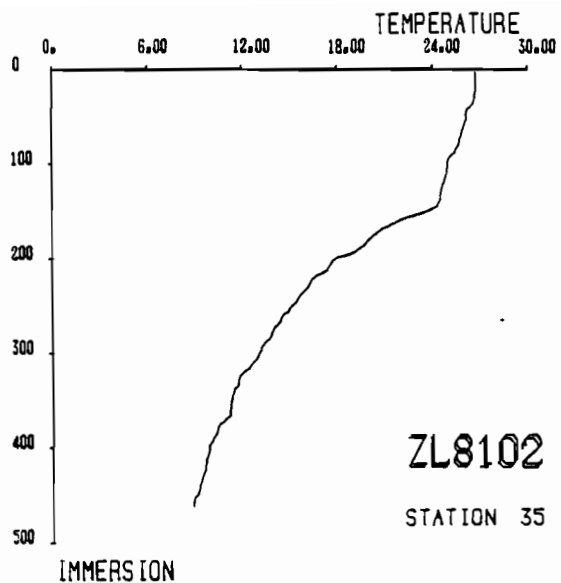
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23	164
22	168
21	174
20	189
19	206
18	224
17	240
16	257
15	287
14	317
13	344

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TEMP	PROF
25	74
24	78
23	84
22	90
21	94
20	103
19	114
18	119
17	133
16	165
15	202
14	255
13	313
12	345
11	368
10	413

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TEMP	PROF
26	23
25	56
24	137
23	176
22	183
21	187
20	195
19	205
18	214
17	225
16	237
15	246
14	265
13	283
12	304
11	332
10	355
9	386
8	428



## STATION 35

13/11/81 12H 0 Z  
 LAT 10 30'S  
 LONG 35 20'W  
 T 3M : 26.7 C  
 T461M : 8.8 C

## STATION 36

13/11/81 18H 0 Z  
 LAT 8 30'S  
 LONG 34 40'W  
 T 3M : 26.8 C  
 T430M : 8.4 C

## STATION 37

14/11/81 0H 0 Z  
 LAT 6 36'S  
 LONG 33 42'W  
 T 3M : 26.8 C  
 T365M : 8.3 C

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 TEMP PROF

26 58  
 25 93  
 24 145  
 23 152  
 22 157  
 21 165  
 20 177  
 19 191  
 18 197  
 17 214  
 16 230  
 15 249  
 14 270  
 13 297  
 12 318  
 11 366  
 10 391  
 9 449

---

 TEMP PROF

26 30  
 25 55  
 24 115  
 23 134  
 22 145  
 21 152  
 20 157  
 19 165  
 18 171  
 17 184  
 16 202  
 15 230  
 14 256  
 13 292  
 12 314  
 11 336  
 10 370  
 9 404

---

 TEMP PROF

26 73  
 25 119  
 24 144  
 23 147  
 22 152  
 21 158  
 20 165  
 19 170  
 18 174  
 17 188  
 16 196  
 15 210  
 14 221  
 13 230  
 12 243  
 11 266  
 10 284  
 9 344

## STATION 38

14/11/81 6H 0 Z  
 LAT 4 90'S  
 LONG 33 0'W  
 T 3M : 26.8 C  
 T461M : 7.8 C

## STATION 39

14/11/81 12H 0 Z  
 LAT 3 22'S  
 LONG 32 19'W  
 T 3M : 26.7 C  
 T421M : 9.4 C

## STATION 40

14/11/81 18H 0 Z  
 LAT 1 46'S  
 LONG 31 36'W  
 T 3M : 27.1 C  
 T419M : 7.8 C

---

 TEMP PROF

26 101  
 25 113  
 24 119  
 23 125  
 22 131  
 21 135  
 20 138  
 19 148  
 18 156  
 17 164  
 16 169  
 15 172  
 14 181  
 13 190  
 12 204  
 11 227  
 10 273  
 9 357  
 8 453

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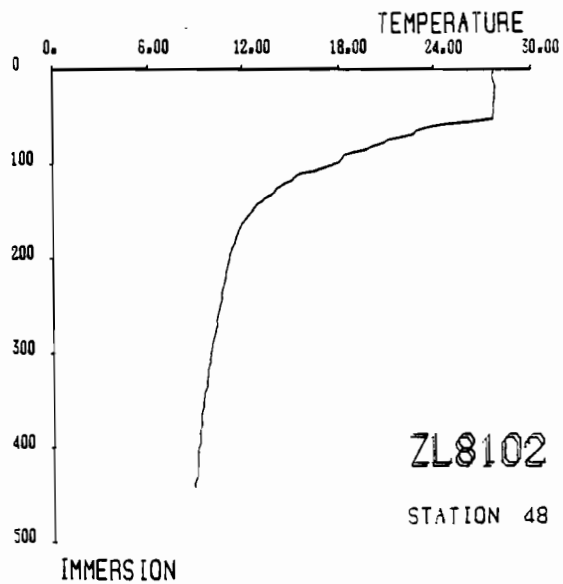
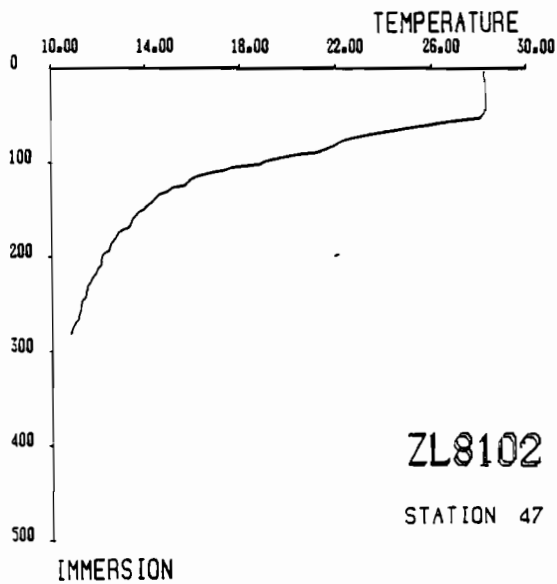
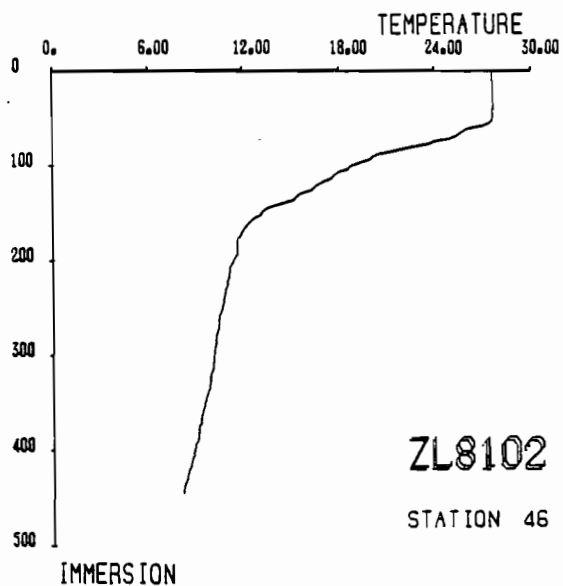
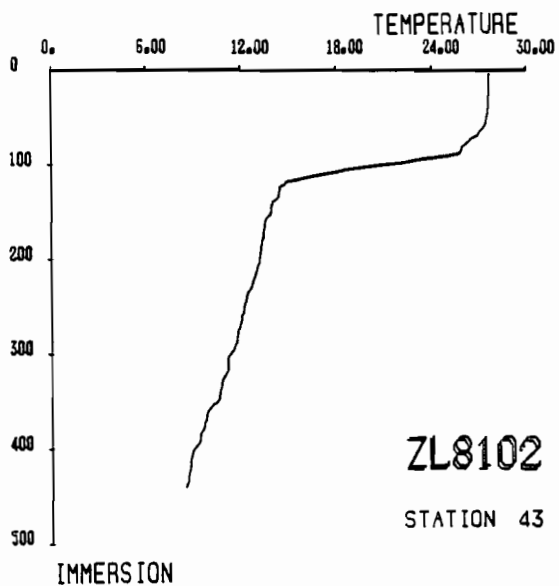
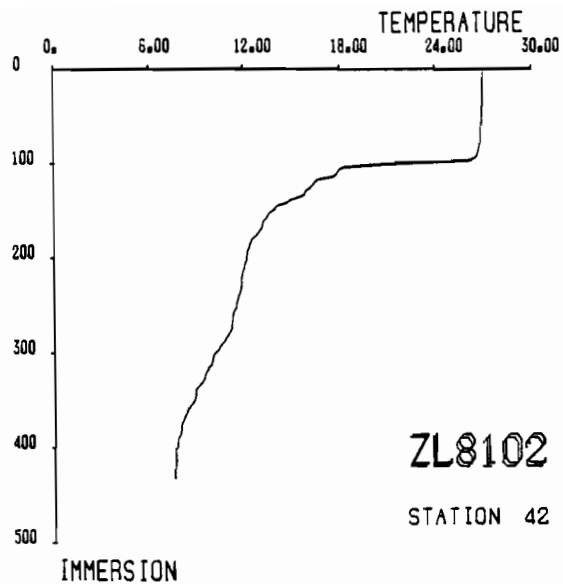
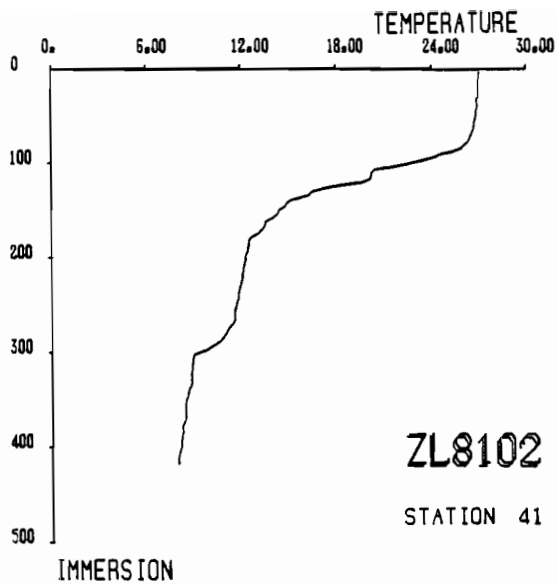
 TEMP PROF

26 82  
 25 84  
 24 86  
 23 90  
 22 92  
 21 94  
 20 96  
 19 99  
 18 101  
 17 103  
 16 104  
 15 105  
 14 110  
 13 123  
 12 209  
 11 301  
 10 359

---

 TEMP PROF

27 17  
 26 71  
 25 73  
 24 77  
 23 79  
 22 85  
 21 90  
 20 92  
 19 94  
 18 96  
 17 99  
 16 102  
 15 105  
 14 115  
 13 138  
 12 211  
 11 261  
 10 332  
 9 360  
 8 408



## STATION 41

15/11/81 0H 0 Z  
 LAT 0 10'S  
 LONG 31 2'W  
 T 3M : 27.0 C  
 T418M : 7.9 C

## STATION 42

15/11/81 6H 0 Z  
 LAT 1 10'N  
 LONG 30 26'W  
 T 3M : 27.0 C  
 T433M : 7.4 C

## STATION 43

15/11/81 12H 0 Z  
 LAT 3 3'N  
 LONG 29 34'W  
 T 3M : 27.7 C  
 T439M : 8.4 C

-----  
 TEMP PROF

27 10  
 26 81  
 25 88  
 24 93  
 23 97  
 22 101  
 21 104  
 20 116  
 19 120  
 18 122  
 17 125  
 16 132  
 15 138  
 14 155  
 13 173  
 12 224  
 11 279  
 10 293  
 9 301  
 8 406

TEMP PROF

27 6  
 26 97  
 25 97  
 24 98  
 23 98  
 22 99  
 21 100  
 20 101  
 19 102  
 18 105  
 17 114  
 16 126  
 15 137  
 14 144  
 13 170  
 12 208  
 11 279  
 10 301  
 9 334  
 8 371

TEMP PROF

27 64  
 26 78  
 25 89  
 24 91  
 23 93  
 22 97  
 21 98  
 20 100  
 19 102  
 18 105  
 17 108  
 16 112  
 15 115  
 14 136  
 13 206  
 12 262  
 11 319  
 10 355  
 9 396

## STATION 46

16/11/81 0H 0 Z  
 LAT 6 19'N  
 LONG 28 6'W  
 T 3M : 27.6 C  
 T445M : 8.0 C

## STATION 47

16/11/81 6H 0 Z  
 LAT 8 6'N  
 LONG 27 24'W  
 T 3M : 28.2 C  
 T281M : 10.8 C

## STATION 48

16/11/81 6H 0 Z  
 LAT 8 6'N  
 LONG 27 24'W  
 T 3M : 27.6 C  
 T442M : 8.7 C

-----  
 TEMP PROF

27 57  
 26 61  
 25 70  
 24 74  
 23 78  
 22 81  
 21 85  
 20 91  
 19 97  
 18 105  
 17 115  
 16 126  
 15 135  
 14 141  
 13 151  
 12 166  
 11 218  
 10 308  
 9 380  
 8 445

TEMP PROF

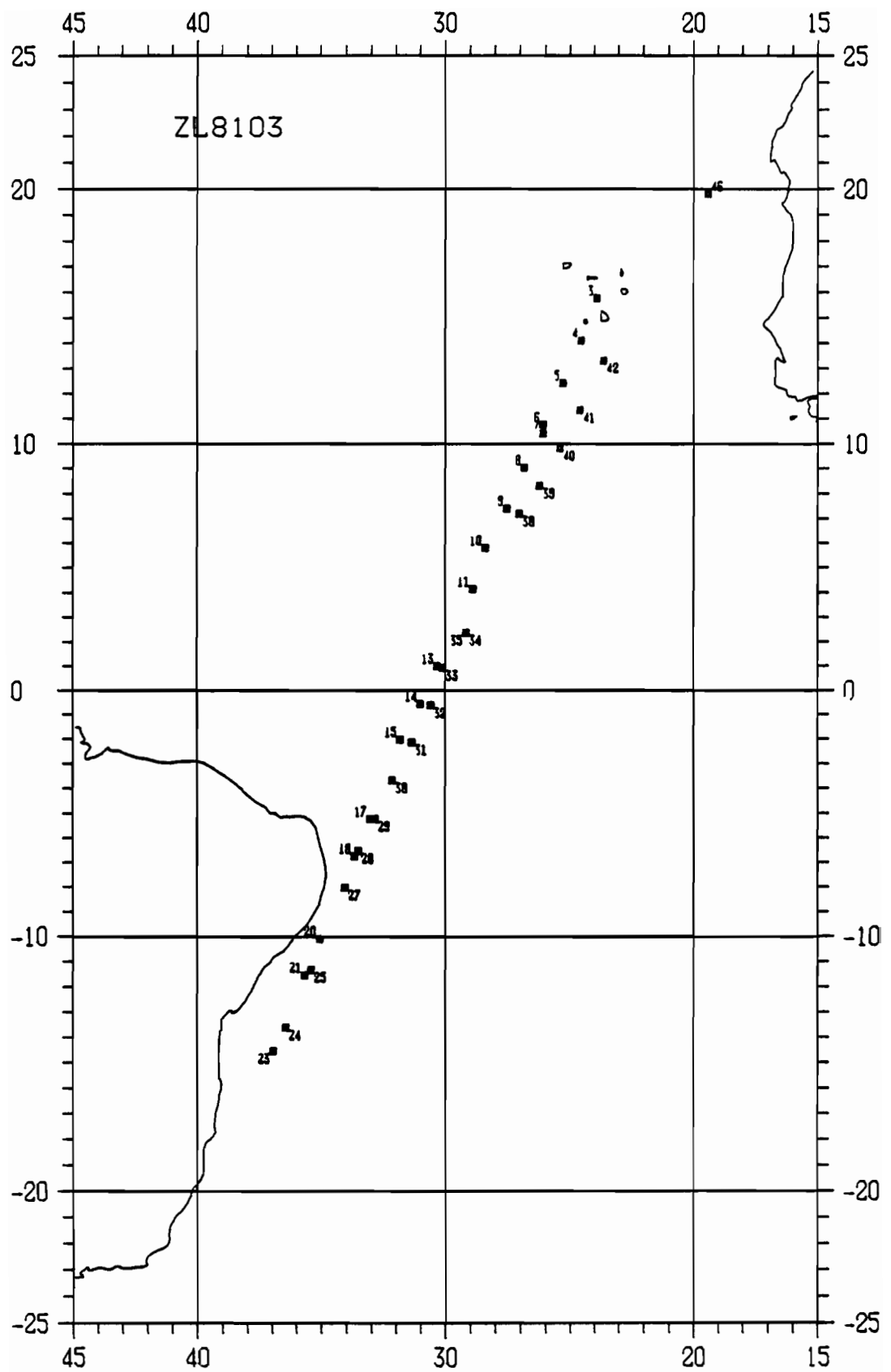
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 15 126  
 14 144  
 13 170  
 12 209  
 11 267

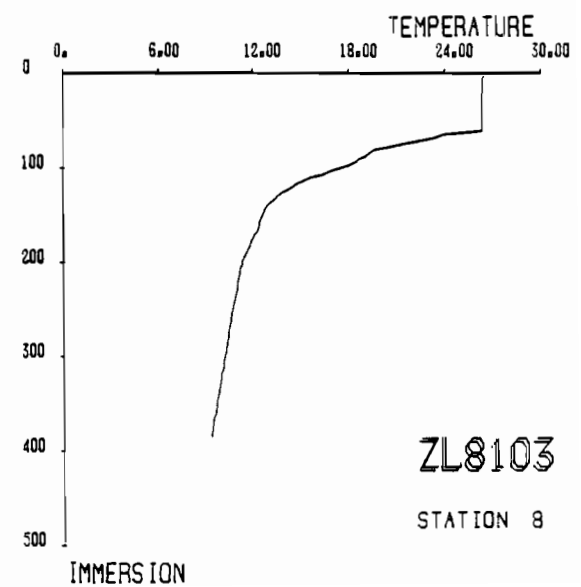
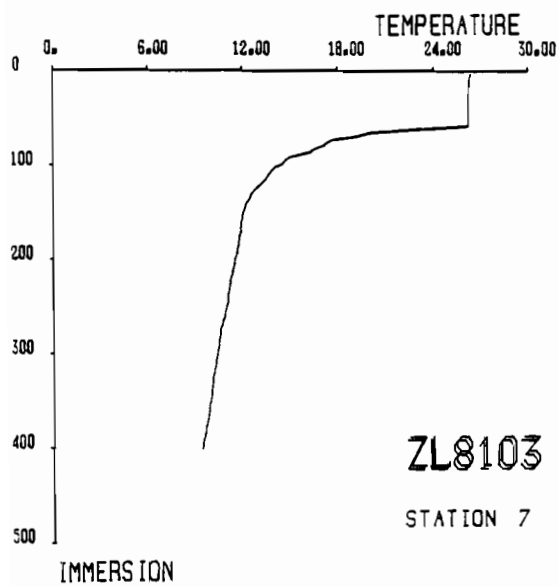
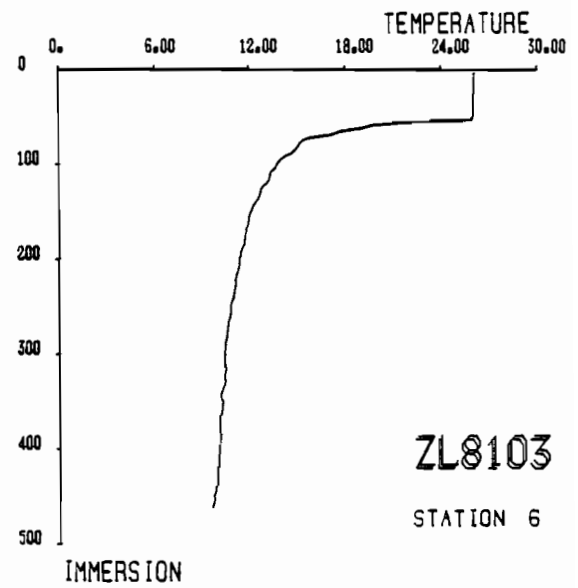
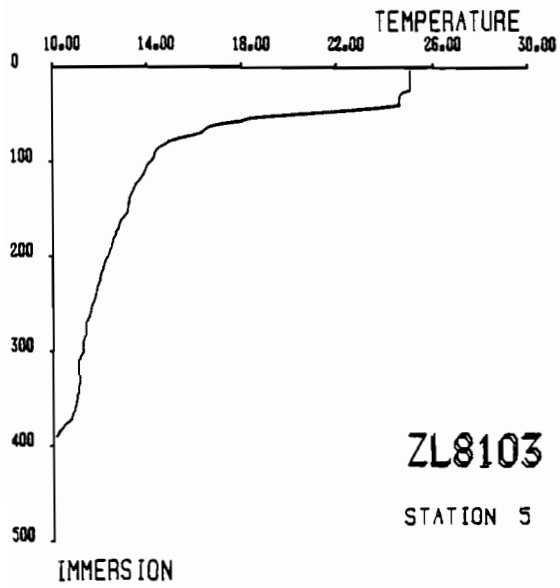
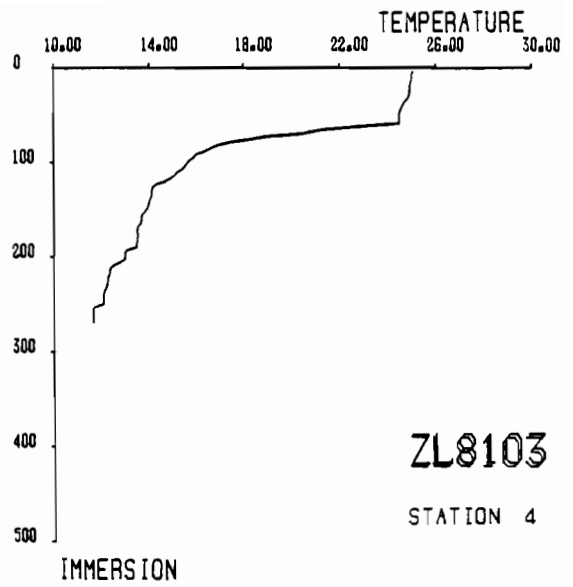
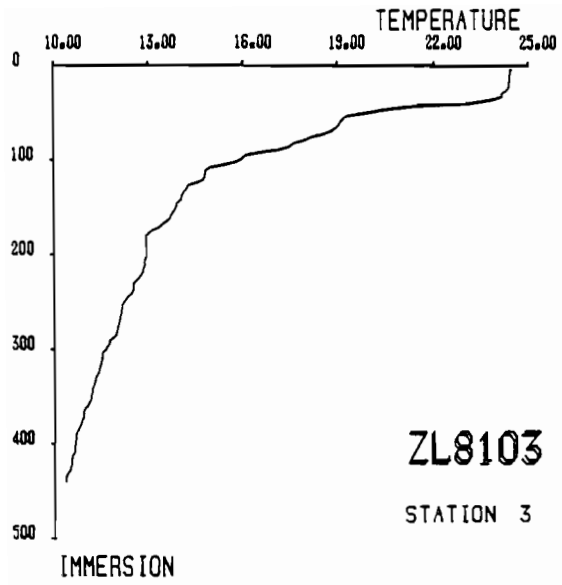
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27 53  
 26 55  
 25 57  
 24 59  
 23 63  
 22 70  
 21 73  
 20 80  
 19 85  
 18 95  
 17 102  
 16 107  
 15 115  
 14 126  
 13 139  
 12 158  
 11 199  
 10 283  
 9 398

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*      -----
*
*      DESCRIPTIF DE LA CROISIERE NO.      ZL8103      .
*
*      -----
*
*
*      DATE DEBUT DE CROISIERE      DATE FIN DE CROISIERE
*
*          25/12/81                          11/ 2/82
*
*
*      LATITUDE  MINIMUM                LATITUDE  MAXIMUM
*
*          14 32 S                          19 49 N
*
*
*      LONGITUDE MINIMUM                LONGITUDE MAXIMUM
*
*          19 26 W                          36 57 W
*
*
*      NOMBRE DE STATIONS                +GD. NO. DE STATION
*
*          34                                46
*
*
*      NB. PARAM. MESURES
*          2
*
*
*      CODES DES PARAMETRES (CODE BNDQ)
*
*          1    3
*
*
*
*****
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STATION 3	STATION 4	STATION 5
25/12/81 18H 0 Z	26/12/81 0H 0 Z	26/12/81 6H 0 Z
LAT 15 46'N	LAT 14 6'N	LAT 12 25'N
LONG 23 55'W	LONG 24 34'W	LONG 25 18'W
T 3M : 24.5 C	T 3M : 25.0 C	T 3M : 25.1 C
T439M : 10.3 C	T268M : 11.6 C	T390M : 10.1 C

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TEMP	PROF
------	------

24	33
23	39
22	41
21	43
20	48
19	62
18	76
17	87
16	95
15	105
14	141
13	176
12	281
11	360

-----

TEMP	PROF
------	------

25	10
24	58
23	60
22	62
21	64
20	68
19	70
18	75
17	79
16	89
15	112
14	136
13	193
12	249

-----

TEMP	PROF
------	------

25	23
24	41
23	43
22	45
21	46
20	48
19	50
18	54
17	59
16	69
15	76
14	102
13	157
12	219
11	345

STATION 6	STATION 7	STATION 8
26/12/81 12H 0 Z	26/12/81 13H 0 Z	26/12/81 18H 0 Z
LAT 10 45'N	LAT 10 24'N	LAT 9 2'N
LONG 26 6'W	LONG 26 6'W	LONG 26 52'W
T 3M : 26.1 C	T 3M : 26.3 C	T 3M : 26.4 C
T461M : 9.6 C	T399M : 9.4 C	T384M : 9.3 C

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TEMP	PROF
------	------

26	49
25	52
24	53
23	54
22	54
21	56
20	57
19	60
18	63
17	67
16	70
15	80
14	93
13	120
12	152
11	234
10	396

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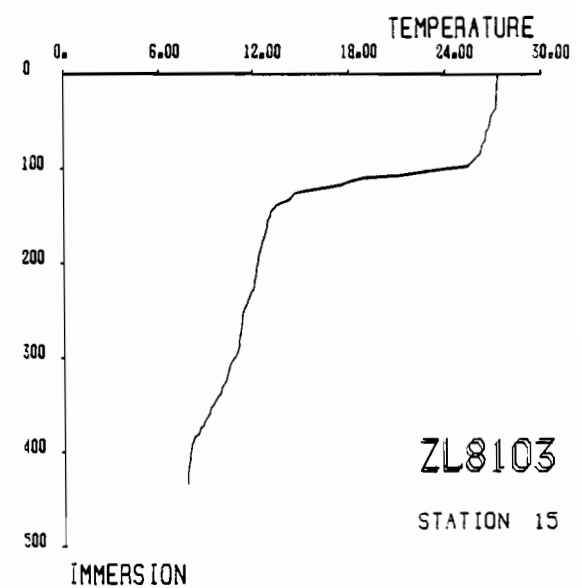
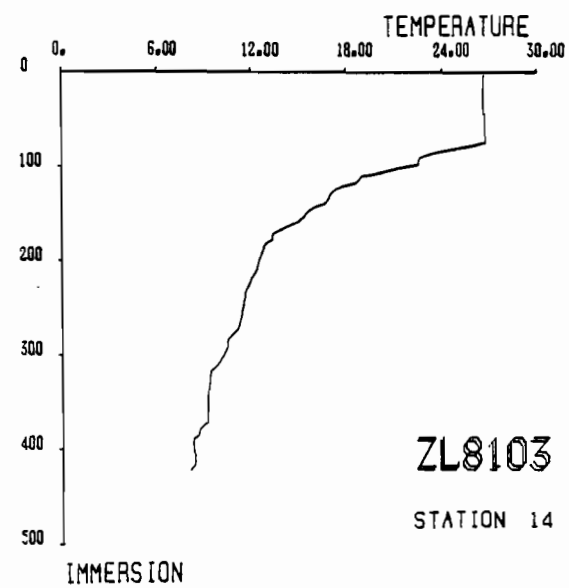
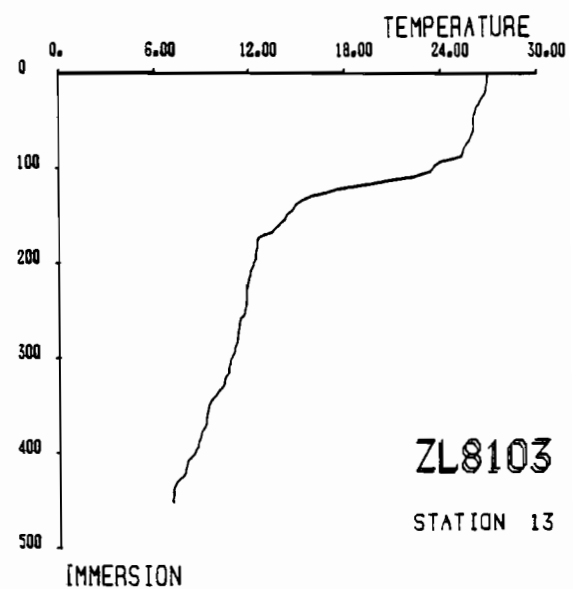
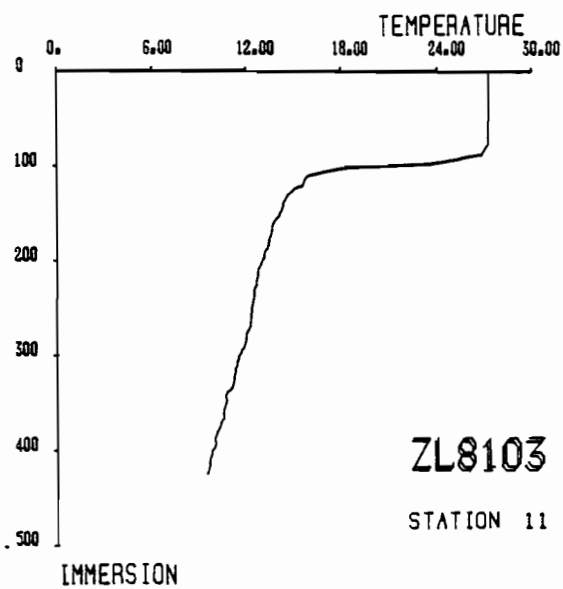
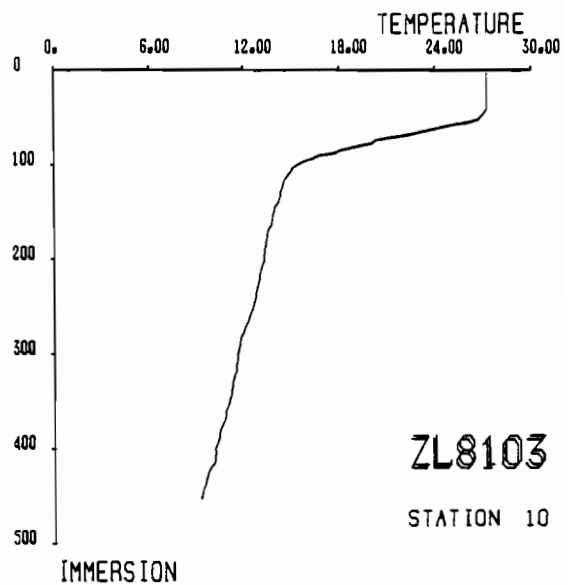
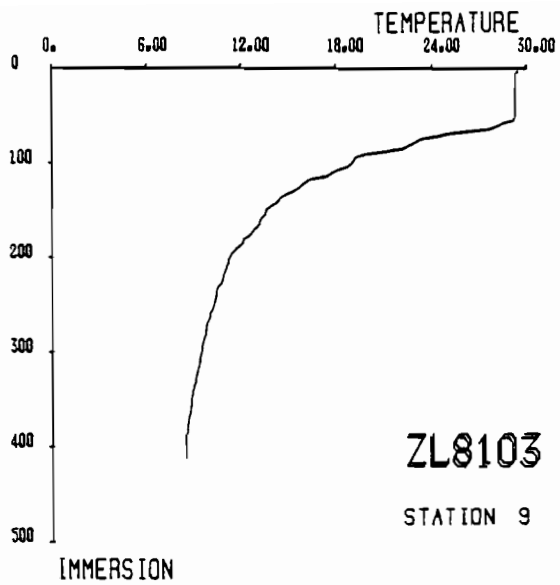
TEMP	PROF
------	------

26	58
25	59
24	59
23	60
22	61
21	62
20	64
19	68
18	70
17	77
16	84
15	89
14	100
13	119
12	151
11	248
10	346

-----

TEMP	PROF
------	------

26	61
25	62
24	63
23	68
22	71
21	75
20	78
19	86
18	95
17	101
16	107
15	113
14	122
13	136
12	171
11	216
10	312



STATION 9  
 27/12/81 0H 0 Z  
 LAT 7 24'N  
 LONG 27 33'W  
 T 3M : 29.4 C  
 T411M : 8.5 C

STATION 10  
 27/12/81 6H 0 Z  
 LAT 5 48'N  
 LONG 28 25'W  
 T 3M : 27.2 C  
 T452M : 9.1 C

STATION 11  
 27/12/81 12H 0 Z  
 LAT 4 8'N  
 LONG 28 55'W  
 T 3M : 27.2 C  
 T424M : 9.5 C

-----

TEMP	PROF
29	55
28	61
27	64
26	66
25	68
24	71
23	76
22	84
21	86
20	89
19	98
18	107
17	113
16	118
15	130
14	142
13	165
12	184
11	213
10	263
9	333

-----

TEMP	PROF
27	46
26	55
25	58
24	61
23	64
22	68
21	70
20	76
19	80
18	84
17	88
16	94
15	102
14	141
13	210
12	271
11	349
10	414

-----

TEMP	PROF
27	81
26	89
25	92
24	95
23	97
22	97
21	98
20	99
19	99
18	100
17	104
16	108
15	122
14	151
13	198
12	278
11	334
10	386

STATION 13  
 28/12/81 0H 0 Z  
 LAT 1 0'N  
 LONG 30 20'W  
 T 3M : 26.9 C  
 T452M : 7.0 C

STATION 14  
 28/12/81 6H 0 Z  
 LAT 0 34'S  
 LONG 31 0'W  
 T 3M : 26.7 C  
 T421M : 8.1 C

STATION 15  
 28/12/81 11H45 Z  
 LAT 2 0'S  
 LONG 31 50'W  
 T 3M : 27.3 C  
 T433M : 7.6 C

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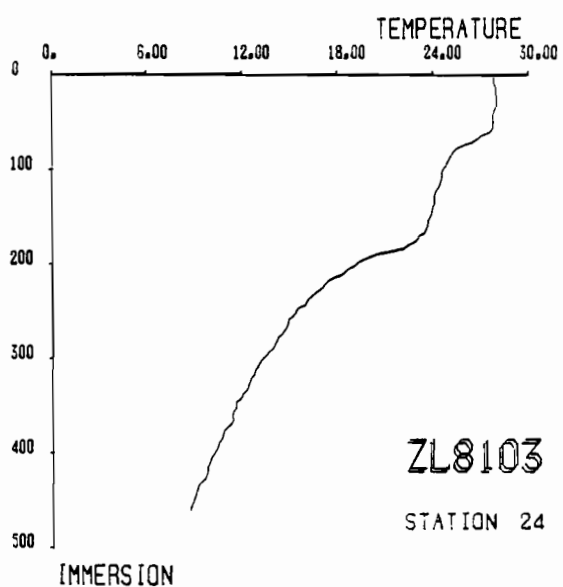
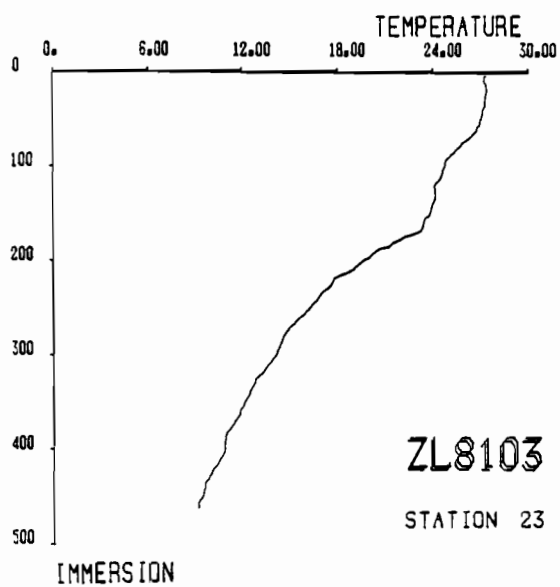
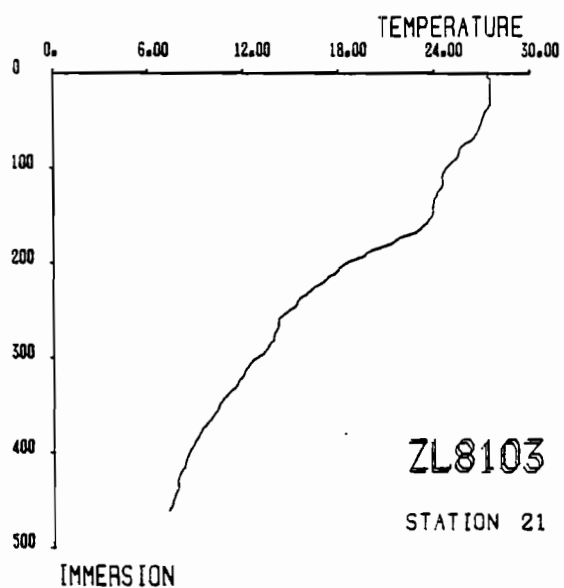
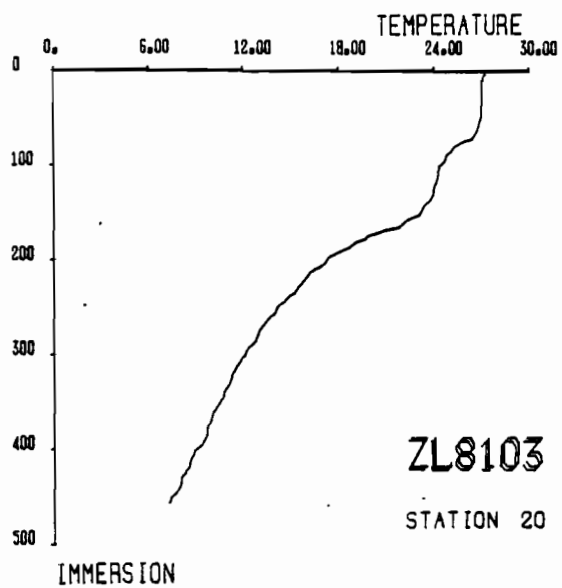
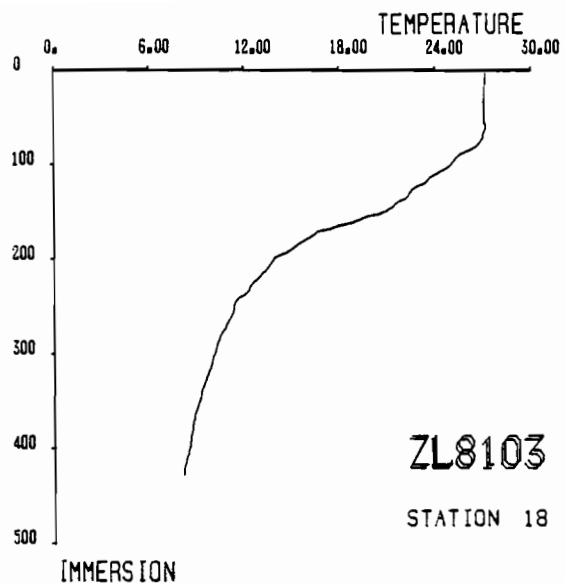
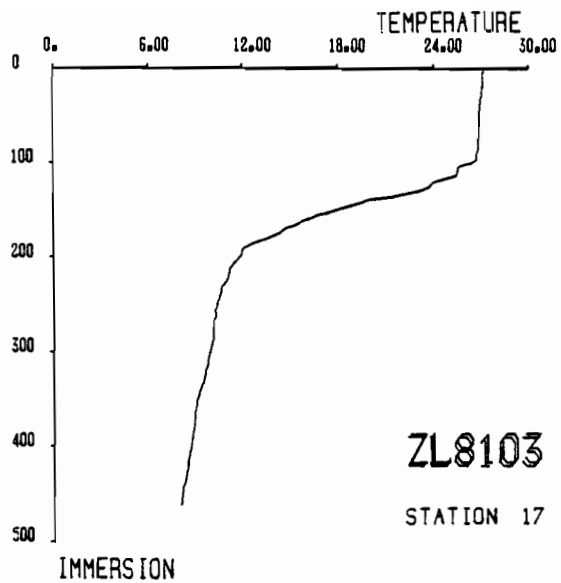
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25	88
24	92
23	104
22	109
21	111
20	114
19	117
18	119
17	123
16	128
15	135
14	156
13	169
12	210
11	289
10	334
9	373
8	406
7	441

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TEMP	PROF
26	76
25	79
24	82
23	86
22	98
21	101
20	105
19	108
18	118
17	126
16	140
15	155
14	163
13	178
12	216
11	274
10	305
9	371

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TEMP	PROF
27	40
26	86
25	97
24	99
23	101
22	103
21	106
20	107
19	108
18	112
17	117
16	119
15	122
14	132
13	144
12	217
11	282
10	326
9	359
8	387



## STATION 17

29/12/81 0H 0 Z  
 LAT 5 14'S  
 LONG 33 4'W  
 T 3M : 27.1 C  
 T461M : 8.0 C

## STATION 18

29/12/81 6H 0 Z  
 LAT 6 45'S  
 LONG 33 41'W  
 T 3M : 27.1 C  
 T427M : 8.1 C

## STATION 20

29/12/81 18H 0 Z  
 LAT 10 5'S  
 LONG 35 3'W  
 T 3M : 27.2 C  
 T455M : 7.2 C

TEMP PROF

27 29  
 26 101  
 25 114  
 24 119  
 23 129  
 22 132  
 21 135  
 20 137  
 19 142  
 18 147  
 17 152  
 16 158  
 15 165  
 14 174  
 13 180  
 12 189  
 11 221  
 10 291  
 9 356  
 8 460

TEMP PROF

27 67  
 26 85  
 25 98  
 24 109  
 23 121  
 22 135  
 21 146  
 20 152  
 19 158  
 18 163  
 17 168  
 16 177  
 15 188  
 14 197  
 13 216  
 12 236  
 11 262  
 10 300  
 9 351

TEMP PROF

27 11  
 26 72  
 25 84  
 24 120  
 23 150  
 22 160  
 21 166  
 20 172  
 19 179  
 18 189  
 17 202  
 16 213  
 15 233  
 14 249  
 13 270  
 12 299  
 11 330  
 10 361  
 9 397  
 8 426

## STATION 21

30/12/81 0H 0 Z  
 LAT 11 32'S  
 LONG 35 40'W  
 T 3M : 27.3 C  
 T461M : 7.1 C

## STATION 23

30/12/81 11H44 Z  
 LAT 14 32'S  
 LONG 36 57'W  
 T 3M : 27.2 C  
 T461M : 9.1 C

## STATION 24

5/ 2/82 6H 0 Z  
 LAT 13 36'S  
 LONG 36 26'W  
 T 3M : 27.8 C  
 T461M : 8.5 C

TEMP PROF

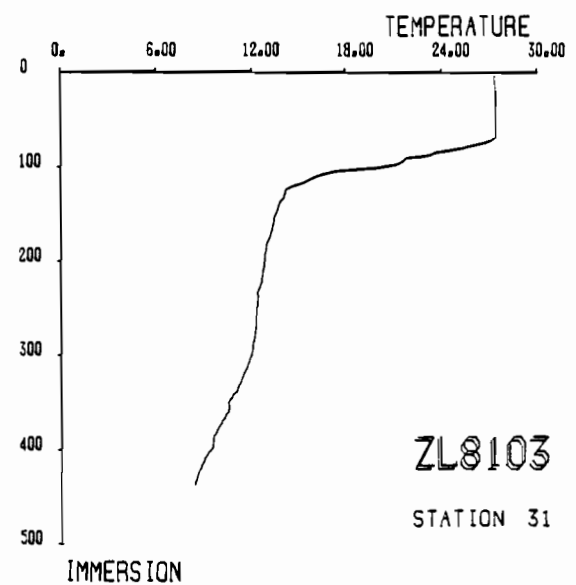
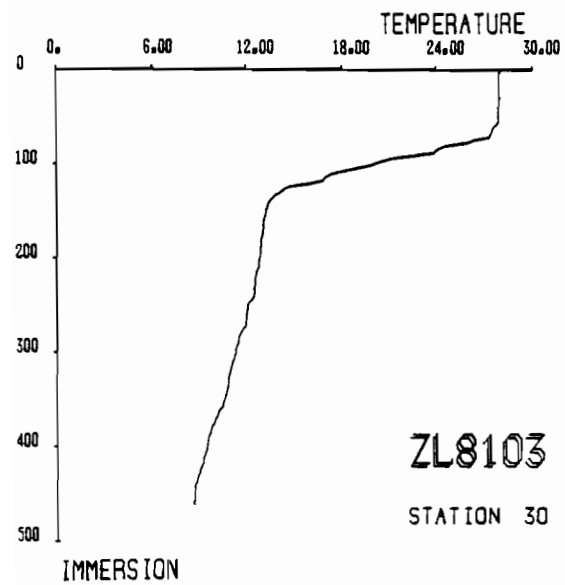
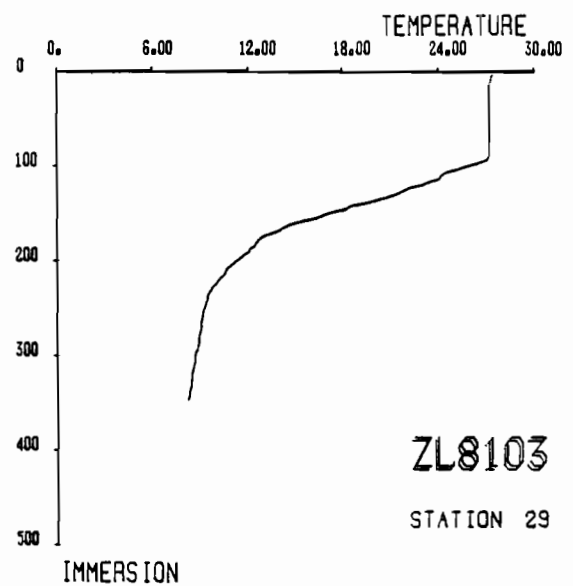
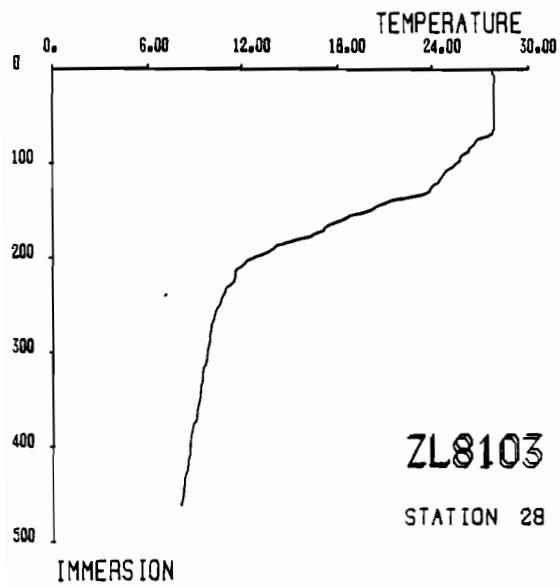
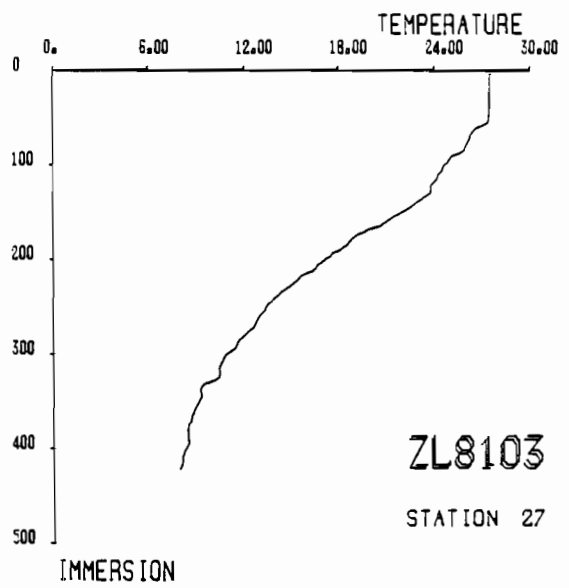
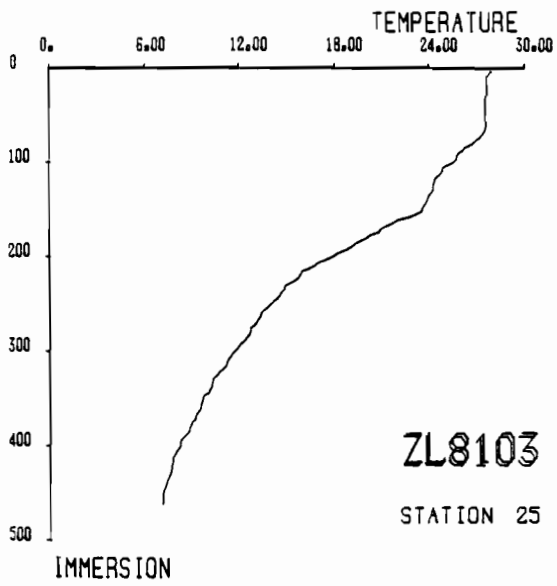
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 25 94  
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 23 164  
 22 171  
 21 180  
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 19 195  
 18 204  
 17 218  
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 15 248  
 14 272  
 13 296  
 12 313  
 11 336  
 10 358  
 9 381  
 8 417

TEMP PROF

27 46  
 26 71  
 25 87  
 24 135  
 23 168  
 22 174  
 21 184  
 20 193  
 19 205  
 18 214  
 17 230  
 16 250  
 15 266  
 14 297  
 13 319  
 12 351  
 11 378  
 10 421

TEMP PROF

27 64  
 26 73  
 25 86  
 24 128  
 23 172  
 22 183  
 21 187  
 20 191  
 19 200  
 18 211  
 17 223  
 16 239  
 15 256  
 14 284  
 13 305  
 12 335  
 11 370  
 10 401  
 9 435





## STATION 25

5/ 2/82 18H 0 Z  
 LAT 11 18'S  
 LONG 35 24'W  
 T 3M : 27.8 C  
 T461M : 7.1 C

## STATION 27

6/ 2/82 6H 0 Z  
 LAT 8 0'S  
 LONG 34 3'W  
 T 3M : 27.5 C  
 T421M : 7.9 C

## STATION 28

6/ 2/82 12H 0 Z  
 LAT 6 31'S  
 LONG 33 32'W  
 T 3M : 27.7 C  
 T461M : 8.0 C

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TEMP	PROF
27	75
26	87
25	103
24	133
23	155
22	159
21	169
20	179
19	188
18	197
17	204
16	213
15	228
14	248
13	270
12	293
11	317
10	343
9	373
8	404

-----

TEMP	PROF
27	57
26	77
25	91
24	116
23	136
22	147
21	158
20	166
19	174
18	189
17	200
16	212
15	224
14	237
13	256
12	277
11	296
10	327
9	353
8	418

-----

TEMP	PROF
27	72
26	88
25	104
24	122
23	133
22	136
21	140
20	148
19	152
18	159
17	170
16	176
15	180
14	186
13	196
12	206
11	229
10	271
9	369
8	460

## STATION 29

6/ 2/82 18H 0 Z  
 LAT 5 14'S  
 LONG 32 52'W  
 T 3M : 27.4 C  
 T346M : 8.2 C

## STATION 30

7/ 2/82 0H 0 Z  
 LAT 3 40'S  
 LONG 32 9'W  
 T 3M : 27.9 C  
 T461M : 8.6 C

## STATION 31

7/ 2/82 6H 0 Z  
 LAT 2 6'S  
 LONG 31 22'W  
 T 3M : 27.3 C  
 T436M : 8.4 C

-----

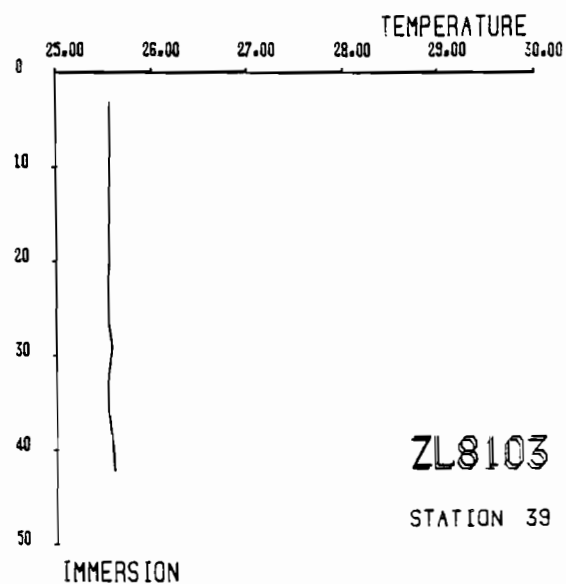
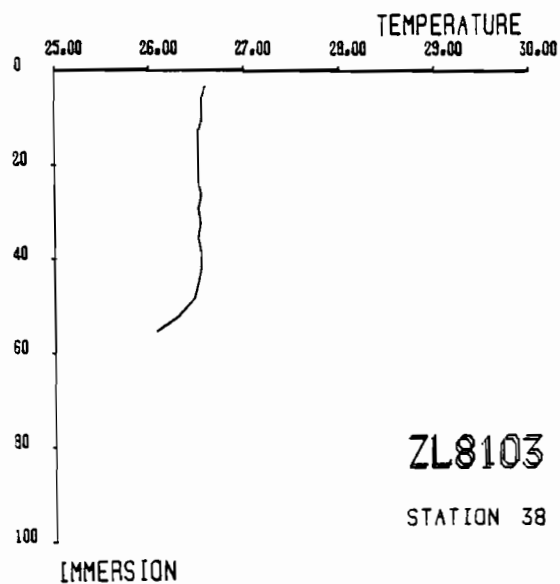
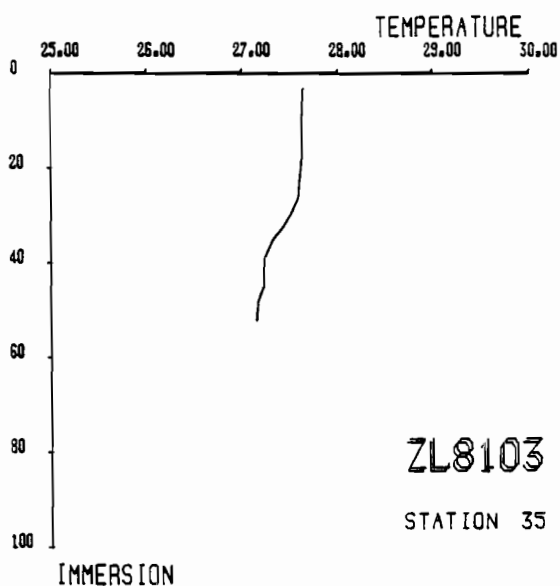
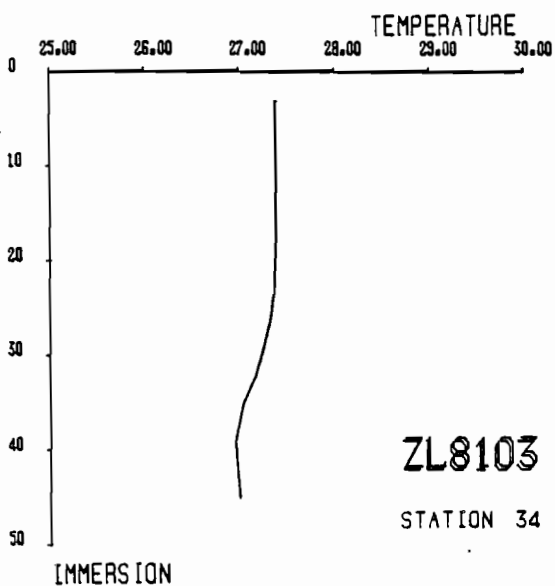
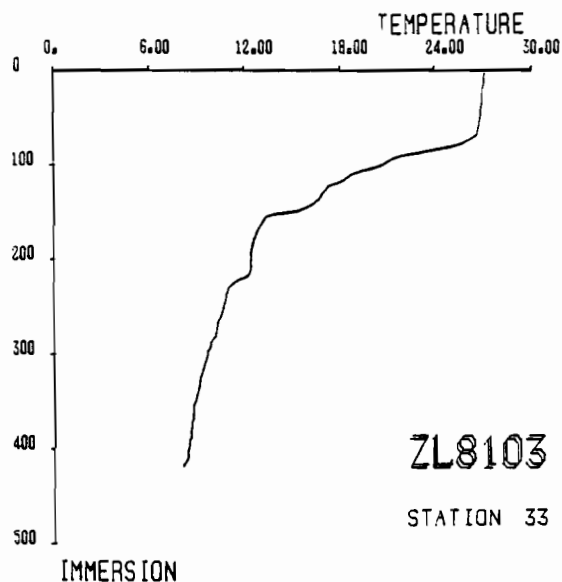
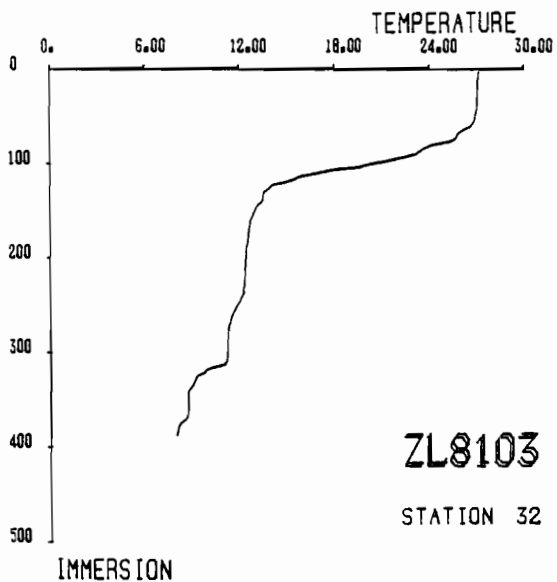
TEMP	PROF
27	93
26	98
25	103
24	113
23	118
22	123
21	130
20	135
19	139
18	144
17	148
16	155
15	158
14	165
13	172
12	188
11	201
10	221
9	271

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TEMP	PROF
27	71
26	76
25	78
24	84
23	89
22	91
21	93
20	98
19	102
18	105
17	112
16	118
15	121
14	129
13	172
12	257
11	315
10	368
9	421

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TEMP	PROF
27	72
26	76
25	80
24	82
23	87
22	89
21	97
20	99
19	101
18	102
17	104
16	109
15	116
14	132
13	178
12	296
11	337
10	372
9	409



## STATION 32

7/ 2/82 12H 0 Z  
 LAT 0 36'S  
 LONG 30 35'W  
 T 3M : 27.1 C  
 T387M : 7.9 C

## STATION 33

7/ 2/82 18H 0 Z  
 LAT 0 55'N  
 LONG 30 7'W  
 T 3M : 27.0 C  
 T418M : 8.1 C

## STATION 34

7/ 2/82 23H55 Z  
 LAT 2 22'N  
 LONG 29 11'W  
 T 3M : 27.4 C  
 T 45M : 27.0 C

-----  
 TEMP PROF

27 42  
 26 65  
 25 77  
 24 80  
 23 90  
 22 94  
 21 97  
 20 100  
 19 103  
 18 105  
 17 108  
 16 112  
 15 117  
 14 123  
 13 147  
 12 245  
 11 312  
 10 316  
 9 330  
 8 377

-----  
 TEMP PROF

27 10  
 26 73  
 25 79  
 24 83  
 23 86  
 22 89  
 21 95  
 20 102  
 19 107  
 18 116  
 17 124  
 16 142  
 15 148  
 14 150  
 13 160  
 12 217  
 11 227  
 10 282  
 9 339

-----  
 TEMP PROF

## STATION 35

8/ 2/82 0H 4 Z  
 LAT 2 22'N  
 LONG 29 11'W  
 T 3M : 27.6 C  
 T 52M : 27.2 C

## STATION 38

8/ 2/82 18H 0 Z  
 LAT 7 12'N  
 LONG 27 4'W  
 T 3M : 26.6 C  
 T 55M : 26.1 C

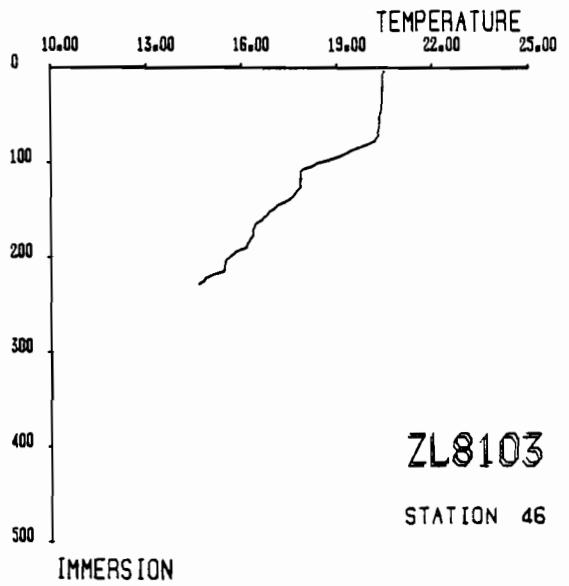
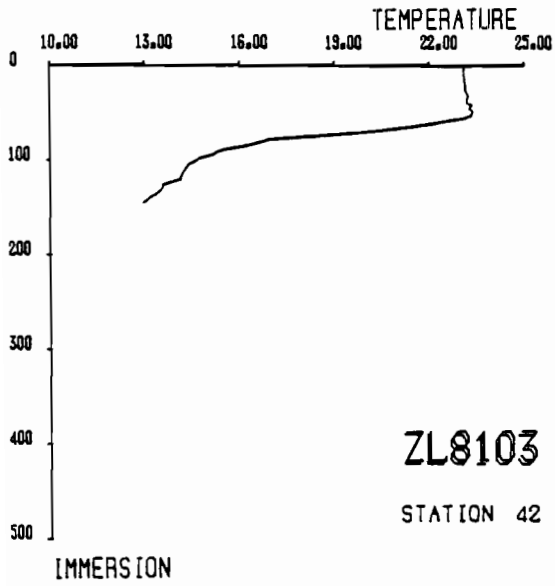
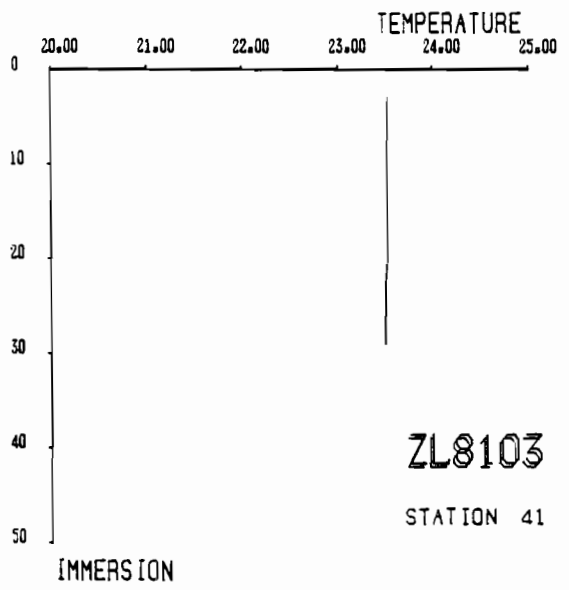
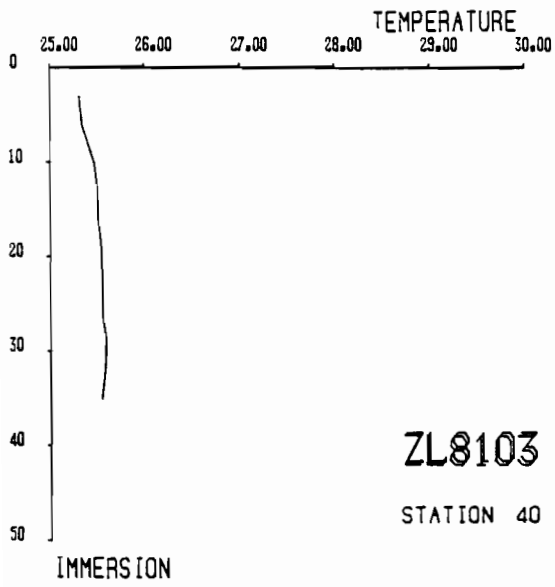
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9/ 2/82 0H 0 Z  
 LAT 8 19'N  
 LONG 26 15'W  
 T 3M : 25.6 C  
 T 42M : 25.6 C

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 TEMP PROF

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 TEMP PROF

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 TEMP PROF



STATION 40

9/ 2/82 6H 0 Z  
LAT 9 50'N  
LONG 25 26'W  
T 3M : 25.3 C  
T 35M : 25.5 C

STATION 41

9/ 2/82 12H 0 Z  
LAT 11 20'N  
LONG 24 37'W  
T 3M : 23.5 C  
T 29M : 23.5 C

STATION 42

9/ 2/82 18H 0 Z  
LAT 13 20'N  
LONG 23 38'W  
T 3M : 23.1 C  
T 144M : 13.0 C

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TEMP PROF

TEMP PROF

TEMP PROF

23 55  
22 61  
21 65  
20 69  
19 71  
18 74  
17 76  
16 84  
15 94  
14 120  
13 142

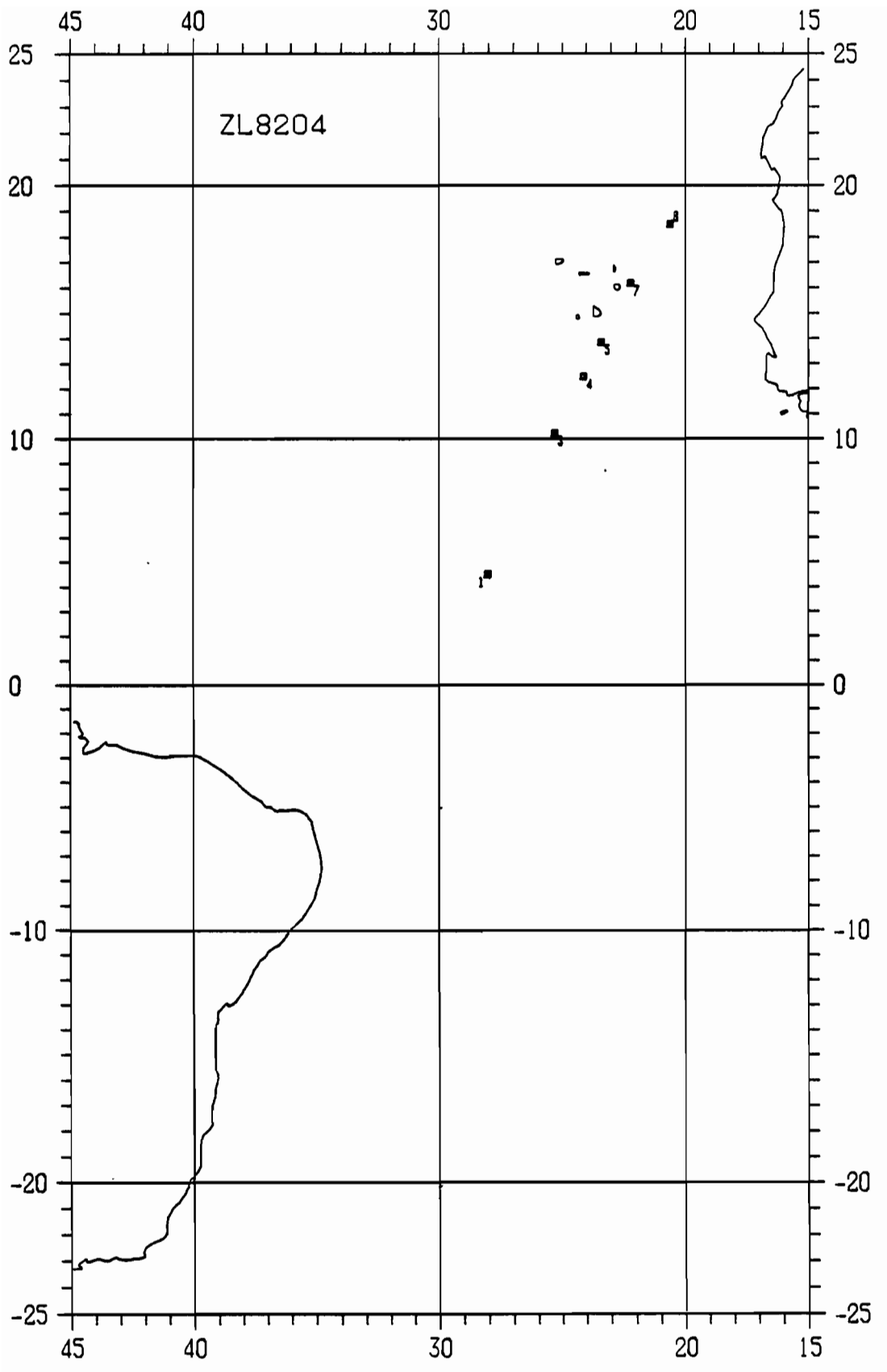
STATION 46

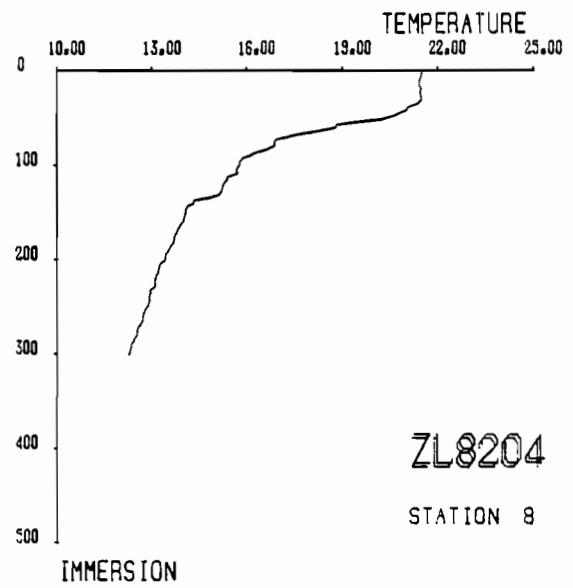
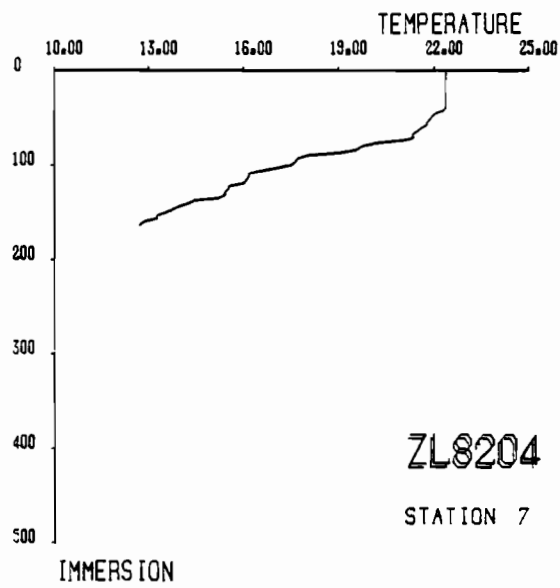
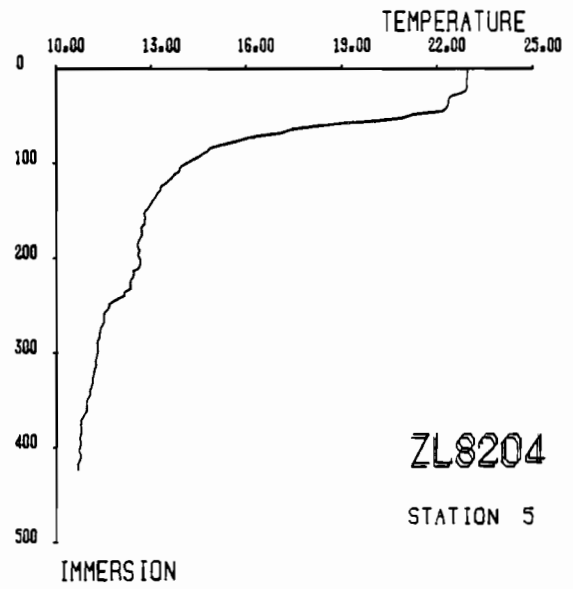
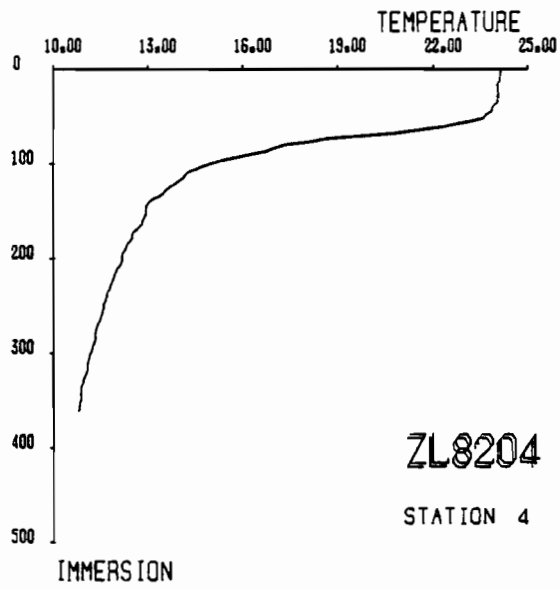
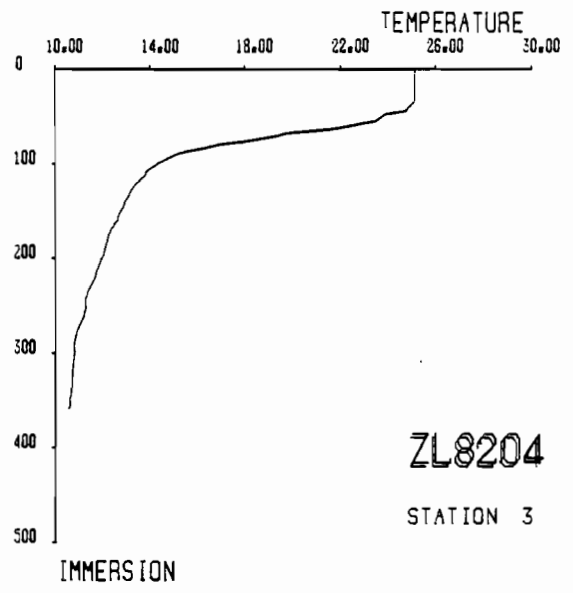
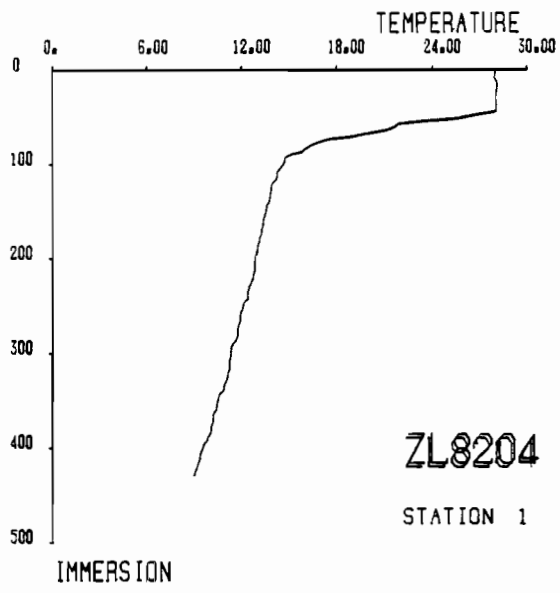
11/ 2/82 0H 0 Z  
LAT 19 49'N  
LONG 19 26'W  
T 3M : 20.5 C  
T 227M : 14.6 C

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TEMP PROF

20 79  
19 93  
18 105  
17 148  
16 190  
15 218









STATION 1  
 24/ 4/82 12H 0 Z  
 LAT 4 30'N  
 LONG 28 4'W  
 T 3M : 28.0 C  
 T430M : 9.0 C

STATION 3  
 25/ 4/82 9H25 Z  
 LAT 10 12'N  
 LONG 25 22'W  
 T 3M : 25.1 C  
 T359M : 10.6 C

STATION 4  
 25/ 4/82 18H 0 Z  
 LAT 12 30'N  
 LONG 24 10'W  
 T 3M : 24.1 C  
 T362M : 10.8 C

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 TEMP PROF  
 27 47  
 26 50  
 25 52  
 24 53  
 23 55  
 22 57  
 21 64  
 20 67  
 19 70  
 18 72  
 17 76  
 16 83  
 15 90  
 14 118  
 13 188  
 12 255  
 11 330  
 10 384  
 9 429

-----  
 TEMP PROF  
 25 37  
 24 47  
 23 57  
 22 62  
 21 65  
 20 67  
 19 72  
 18 77  
 17 79  
 16 85  
 15 91  
 14 105  
 13 138  
 12 200  
 11 272

-----  
 TEMP PROF  
 24 35  
 23 56  
 22 62  
 21 67  
 20 70  
 19 72  
 18 77  
 17 83  
 16 92  
 15 100  
 14 117  
 13 142  
 12 212  
 11 324

STATION 5  
 26/ 4/82 0H 0 Z  
 LAT 13 52'N  
 LONG 23 26'W  
 T 3M : 23.0 C  
 T424M : 10.7 C

STATION 7  
 26/ 4/82 9H 0 Z  
 LAT 16 12'N  
 LONG 22 15'W  
 T 3M : 22.4 C  
 T164M : 12.7 C

STATION 8  
 26/ 4/82 18H 5 Z  
 LAT 18 31'N  
 LONG 20 40'W  
 T 3M : 21.5 C  
 T302M : 12.3 C

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 TEMP PROF  
 22 45  
 21 50  
 20 55  
 19 57  
 18 61  
 17 68  
 16 73  
 15 82  
 14 101  
 13 141  
 12 242  
 11 348

-----  
 TEMP PROF  
 22 46  
 21 74  
 20 78  
 19 87  
 18 90  
 17 103  
 16 118  
 15 135  
 14 143  
 13 158

-----  
 TEMP PROF  
 21 40  
 20 52  
 19 56  
 18 65  
 17 72  
 16 91  
 15 132  
 14 155  
 13 231

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 \*  
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 \* DESCRIPTIF DE LA CROISIERE NO. . ZL8205 .  
 \*  
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 \* -----  
 \*  
 \*\*\*\*\*

DATE DEBUT DE CROISIERE                      DATE FIN DE CROISIERE

27/ 5/82    29/ 5/82

LATITUDE    MINIMUM                              LATITUDE    MAXIMUM

3 41 N    18 6 N

LONGITUDE   MINIMUM                              LONGITUDE   MAXIMUM

22 24 W    29 21 W

NOMBRE DE STATIONS                              +GD. NO. DE STATION

8    15

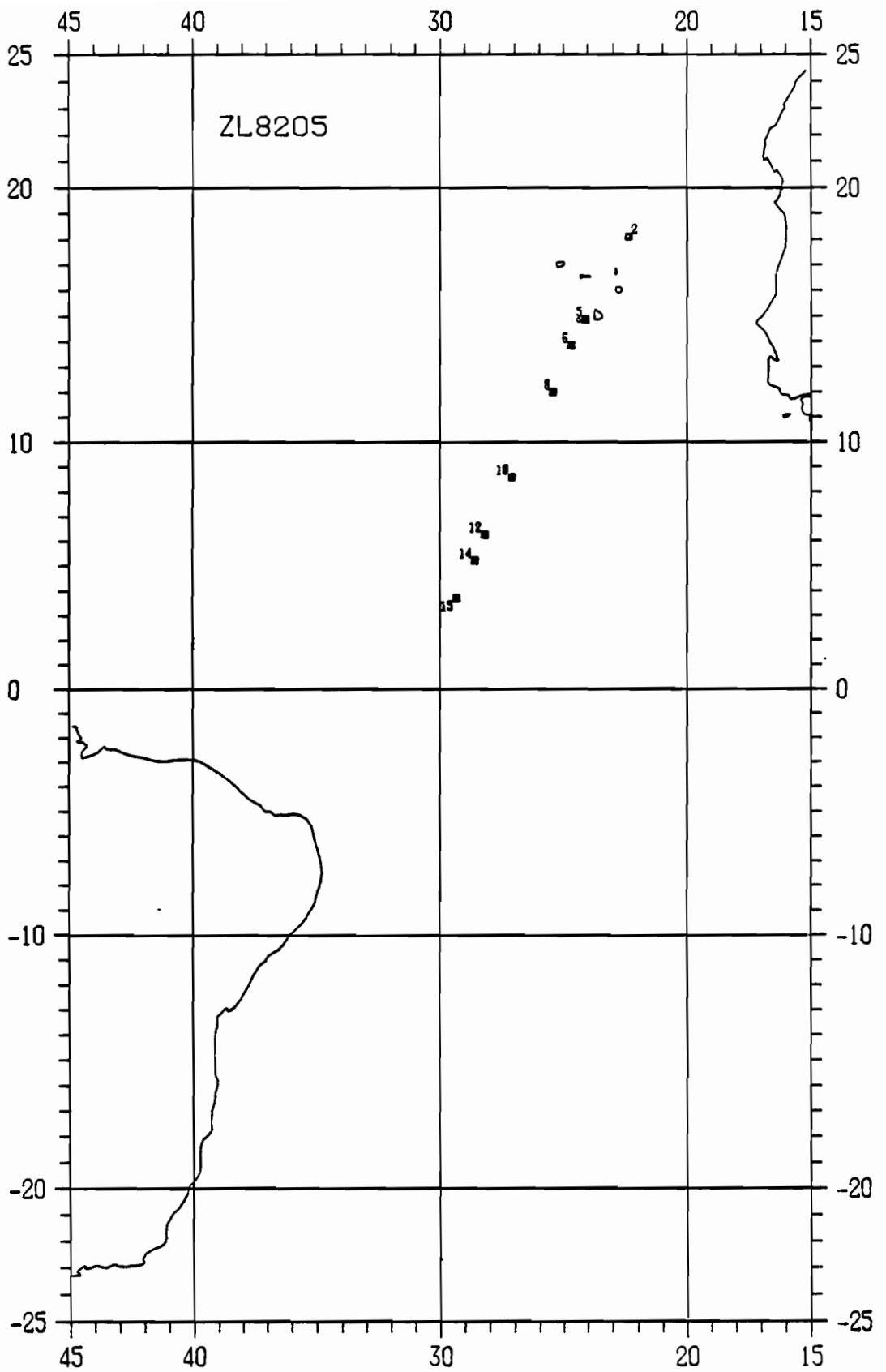
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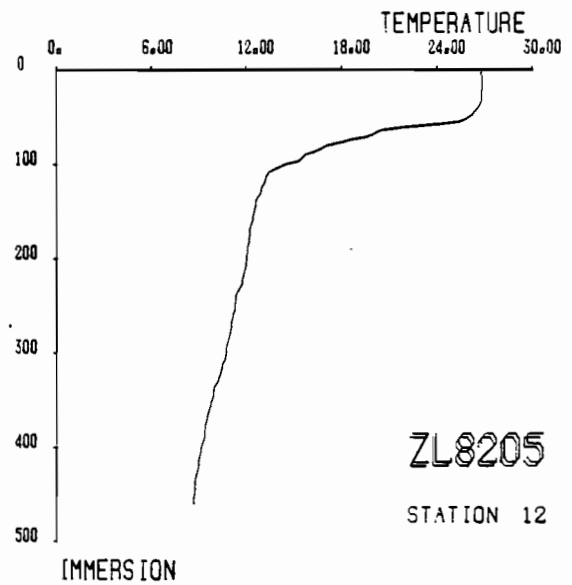
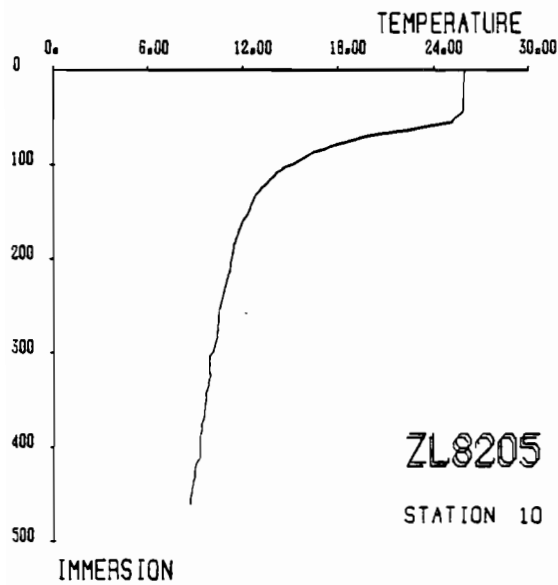
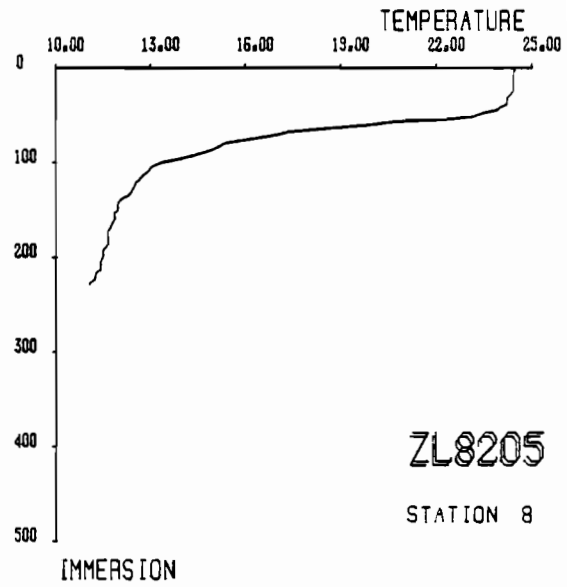
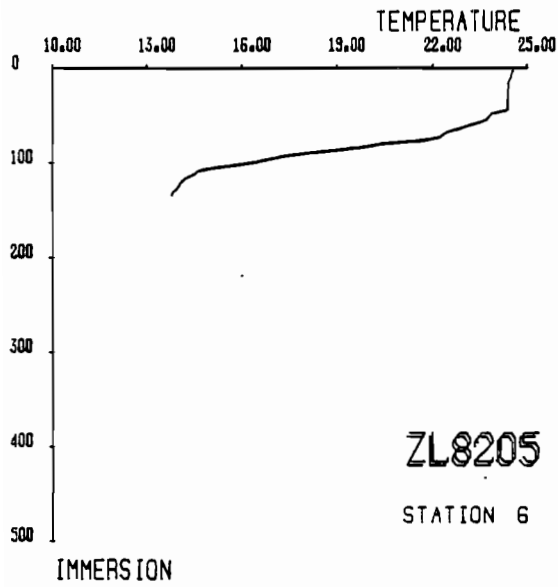
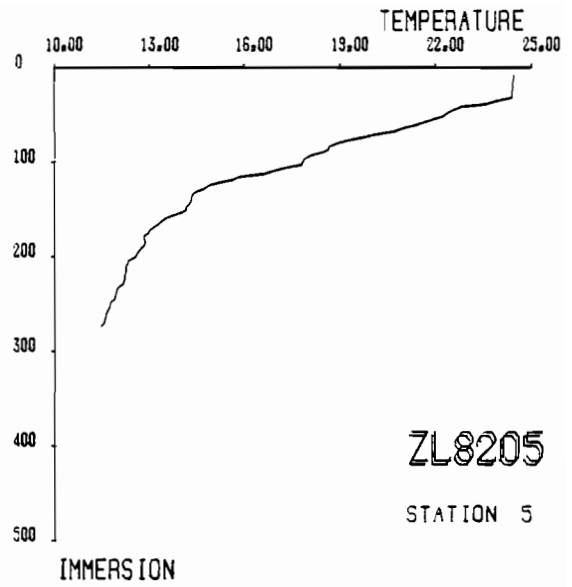
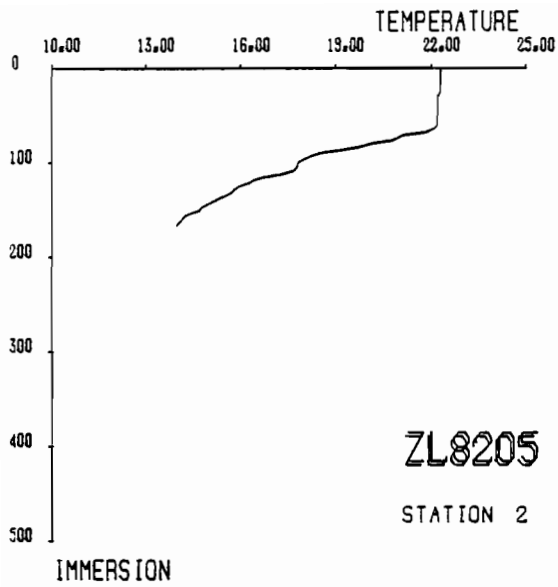
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CODES DES PARAMETRES (CODE BNDO)

1 3

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STATION 2	STATION 5	STATION 6
27/ 5/82 1H 0 Z	27/ 5/82 12H 0 Z	27/ 5/82 18H 0 Z
LAT 18 6'N	LAT 14 53'N	LAT 13 52'N
LONG 22 24'W	LONG 24 6'W	LONG 24 43'W
T 3M : 22.3 C	T 3M : 24.5 C	T 3M : 24.5 C
T167M : 14.0 C	T274M : 11.5 C	T135M : 13.8 C

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TEMP	PROF
22	65
21	73
20	81
19	87
18	96
17	114
16	124
15	143
14	165

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TEMP	PROF
24	34
23	41
22	54
21	64
20	71
19	79
18	94
17	108
16	115
15	124
14	153
13	173
12	235

-----

TEMP	PROF
24	47
23	62
22	74
21	78
20	82
19	86
18	90
17	95
16	101
15	106
14	125

STATION 8	STATION 10	STATION 12
28/ 5/82 0H 0 Z	28/ 5/82 12H 0 Z	28/ 5/82 18H 0 Z
LAT 12 0'N	LAT 8 35'N	LAT 6 15'N
LONG 25 27'W	LONG 27 8'W	LONG 28 12'W
T 3M : 24.4 C	T 3M : 25.9 C	T 3M : 26.8 C
T230M : 11.1 C	T461M : 8.6 C	T461M : 8.6 C

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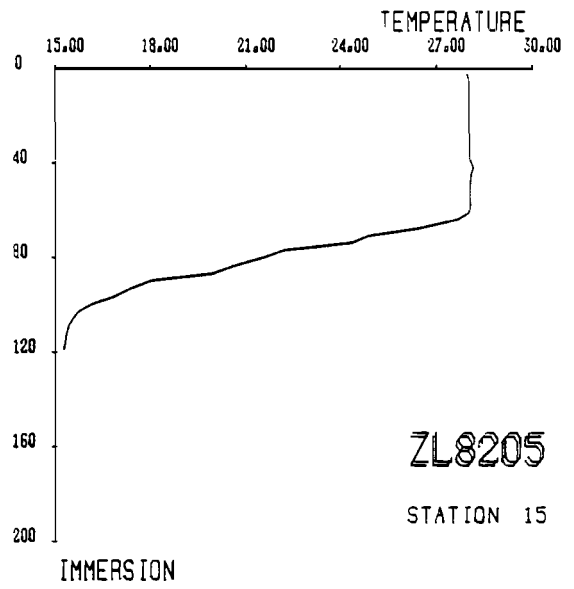
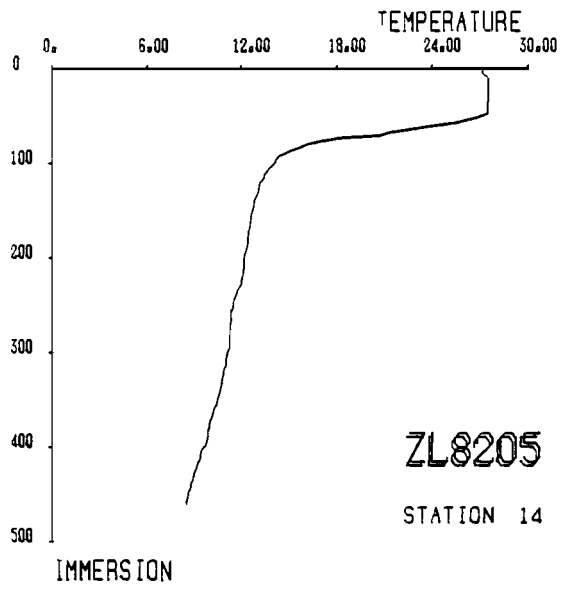
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23	52
22	55
21	57
20	60
19	63
18	66
17	70
16	76
15	85
14	95
13	105
12	144

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TEMP	PROF
25	55
24	58
23	61
22	64
21	67
20	69
19	74
18	78
17	84
16	91
15	100
14	111
13	129
12	160
11	223
10	301
9	419

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TEMP	PROF
26	50
25	55
24	58
23	59
22	60
21	62
20	68
19	72
18	76
17	80
16	88
15	98
14	103
13	126
12	208
11	276
10	335
9	409



## STATION 14

29/ 5/82 0H 0 Z  
LAT 5 13'N  
LONG 28 36'W  
T 3M : 27.2 C  
T461M : 8.5 C

## STATION 15

29/ 5/82 6H 0 Z  
LAT 3 41'N  
LONG 29 21'W  
T 3M : 28.0 C  
T119M : 15.3 C

-----  
TEMP PROF

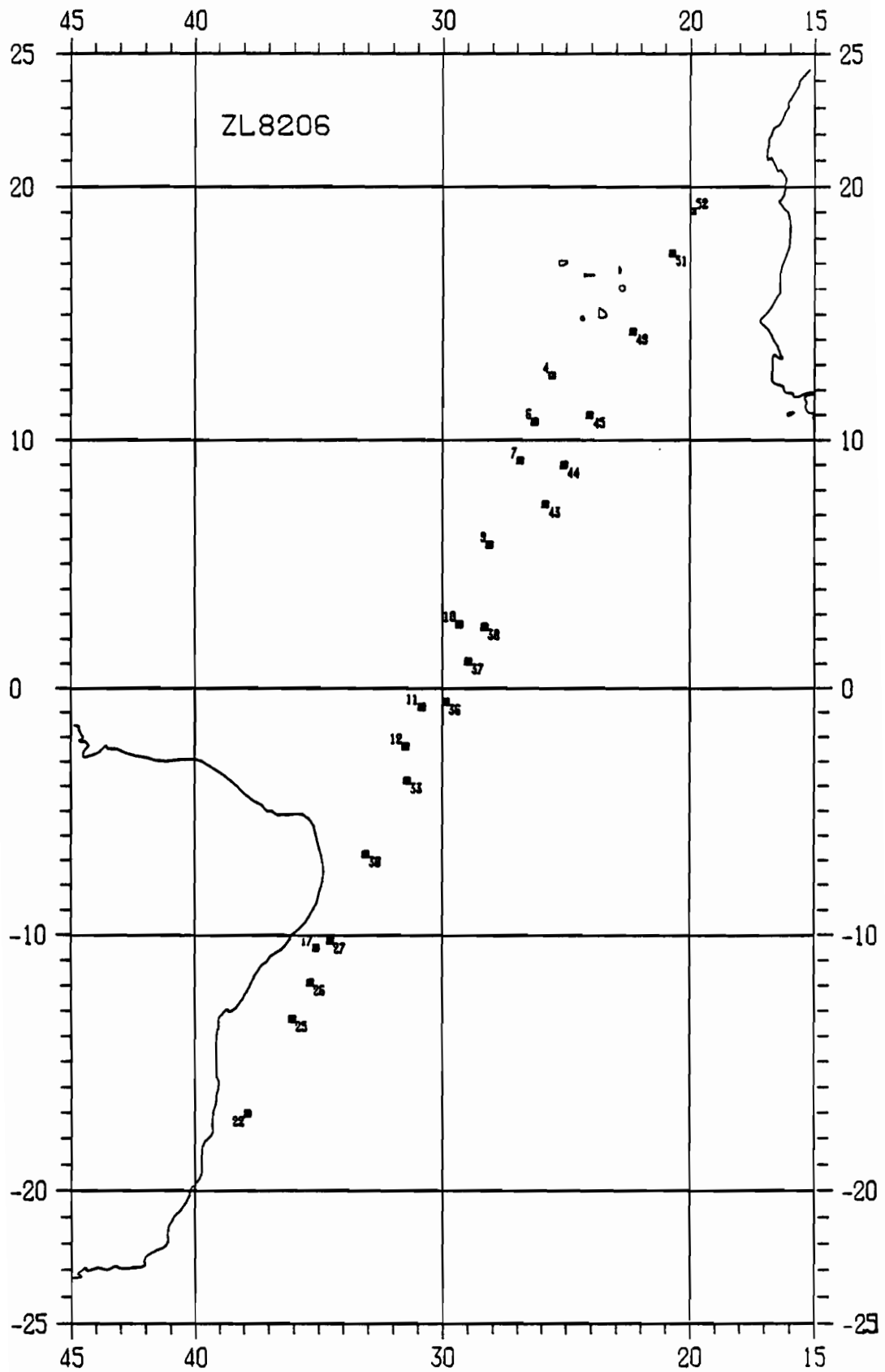
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26	55
25	59
24	61
23	63
22	66
21	69
20	71
19	72
18	74
17	77
16	80
15	87
14	101
13	131
12	227
11	309
10	373
9	426

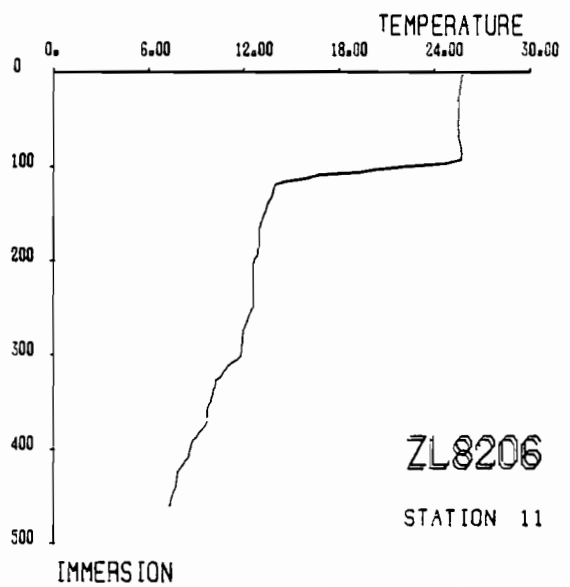
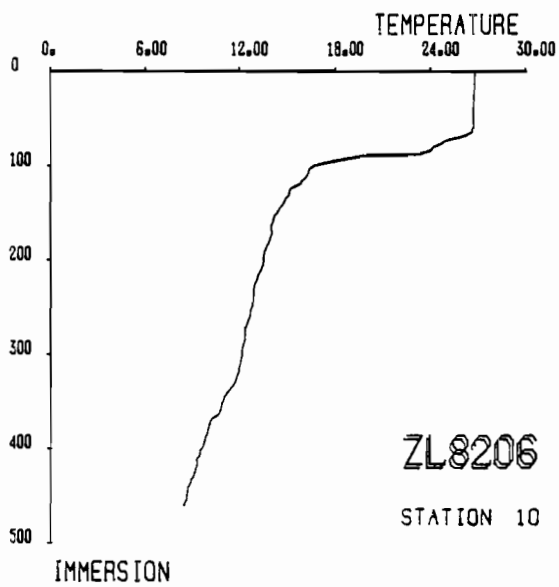
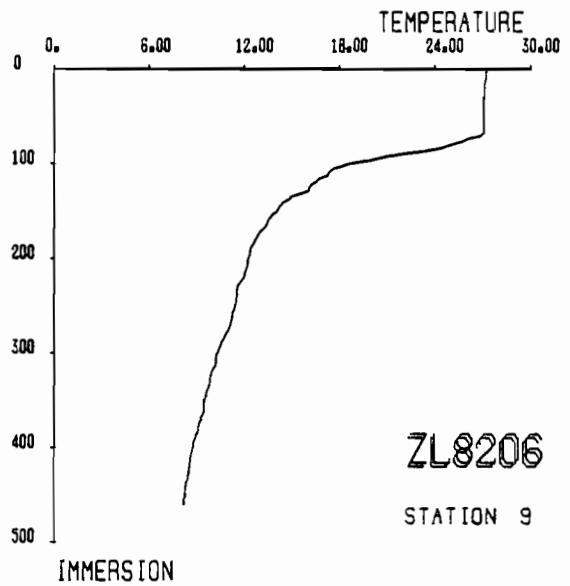
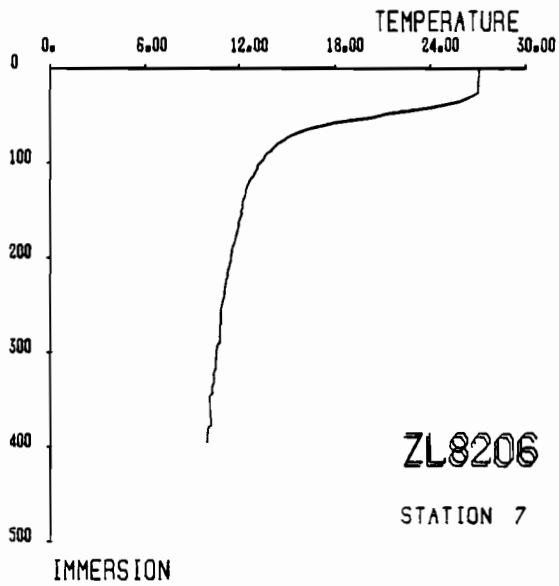
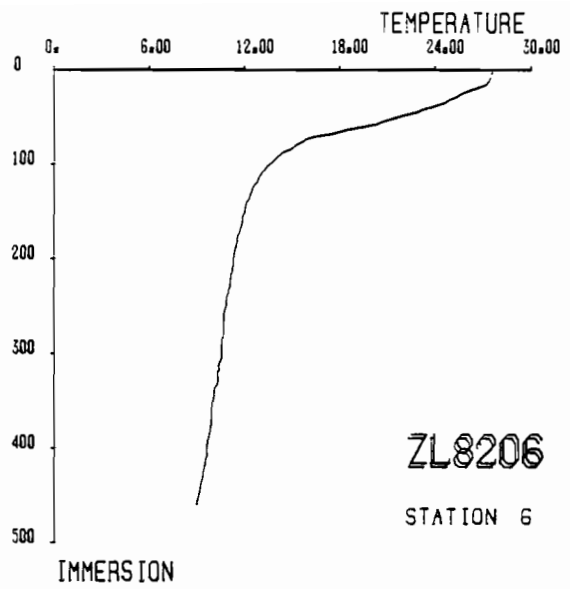
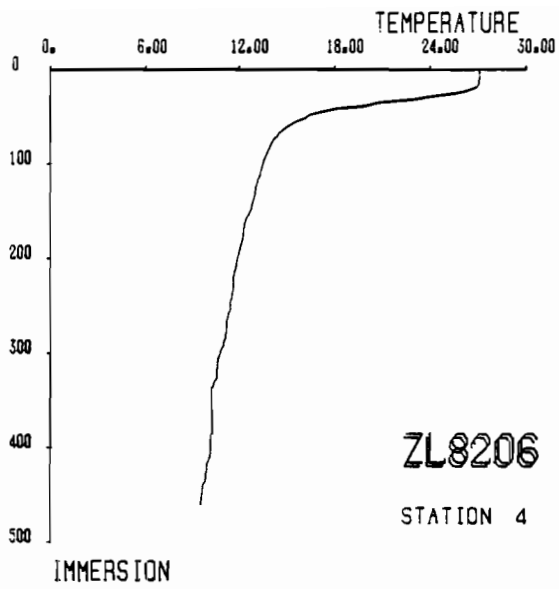
-----  
TEMP PROF

27	66
26	68
25	70
24	74
23	75
22	77
21	82
20	86
19	88
18	90
17	95
16	101









STATION 4  
 13/ 8/82 18H 0 Z  
 LAT 12 36'N  
 LONG 25 36'W  
 T 3M : 27.1 C  
 T461M : 9.5 C

STATION 6  
 14/ 8/82 0H30 Z  
 LAT 10 44'N  
 LONG 26 18'W  
 T 3M : 27.5 C  
 T461M : 9.0 C

STATION 7  
 14/ 8/82 6H 0 Z  
 LAT 9 11'N  
 LONG 26 54'W  
 T 3M : 27.1 C  
 T396M : 9.9 C

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TEMP	PROF
27	17
26	24
25	27
24	29
23	31
22	33
21	34
20	38
19	40
18	42
17	45
16	52
15	60
14	77
13	126
12	192
11	293
10	413

-----

TEMP	PROF
27	17
26	22
25	31
24	38
23	44
22	48
21	53
20	59
19	62
18	65
17	69
16	72
15	82
14	92
13	110
12	148
11	233
10	352
9	456

-----

TEMP	PROF
27	26
26	33
25	37
24	41
23	44
22	46
21	49
20	52
19	54
18	57
17	61
16	65
15	73
14	86
13	108
12	159
11	241
10	380

STATION 9  
 14/ 8/82 18H15 Z  
 LAT 5 47'N  
 LONG 28 9'W  
 T 3M : 27.2 C  
 T461M : 8.1 C

STATION 10  
 15/ 8/82 6H 0 Z  
 LAT 2 35'N  
 LONG 29 22'W  
 T 3M : 26.8 C  
 T461M : 8.4 C

STATION 11  
 15/ 8/82 18H 0 Z  
 LAT 0 45'S  
 LONG 30 52'W  
 T 3M : 25.7 C  
 T461M : 7.2 C

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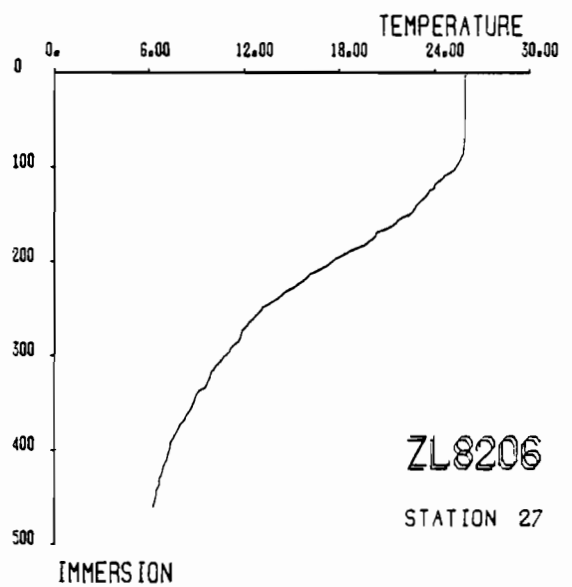
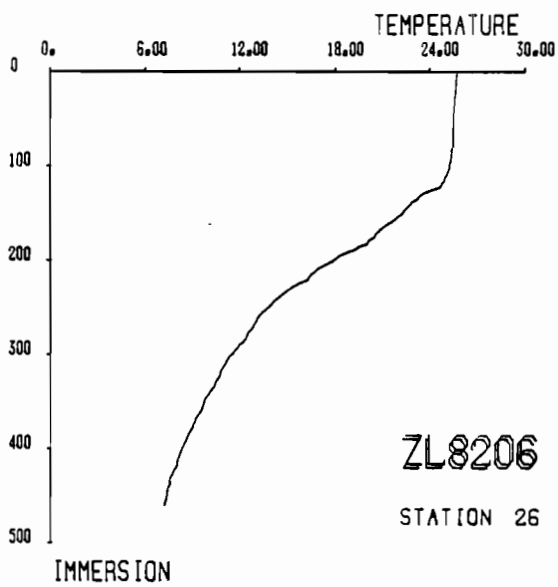
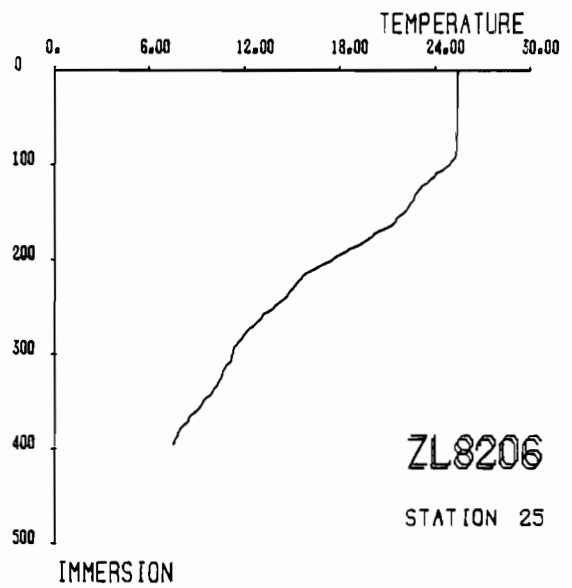
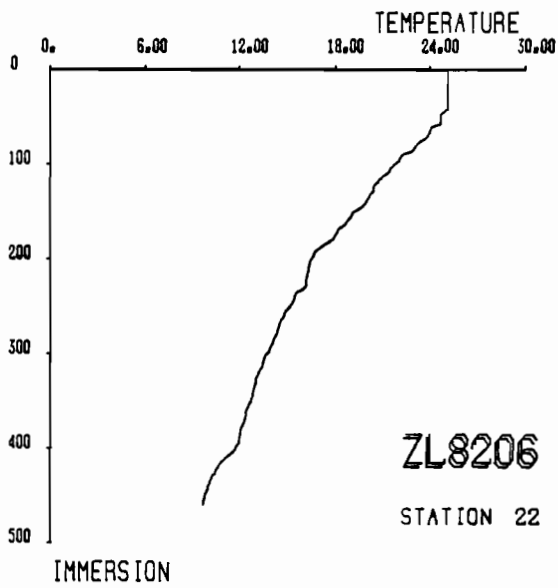
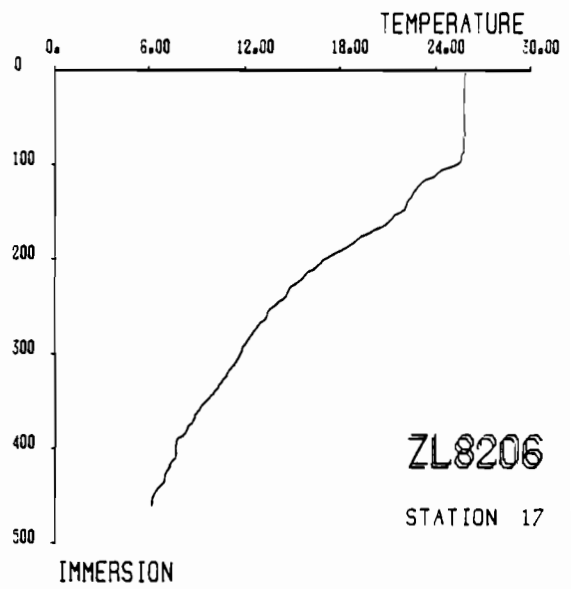
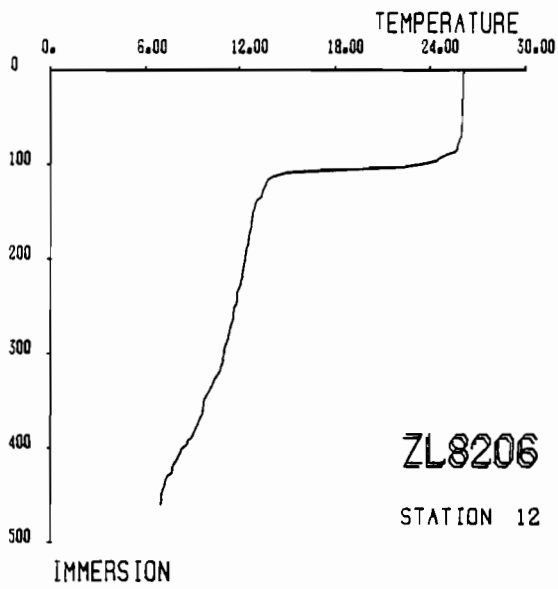
TEMP	PROF
27	68
26	75
25	80
24	84
23	87
22	90
21	92
20	96
19	99
18	103
17	114
16	127
15	134
14	150
13	171
12	217
11	274
10	317
9	384

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TEMP	PROF
26	68
25	73
24	82
23	87
22	88
21	88
20	89
19	91
18	94
17	98
16	113
15	132
14	161
13	224
12	312
11	346
10	376
9	428

-----

TEMP	PROF
25	95
24	97
23	98
22	100
21	101
20	103
19	106
18	107
17	108
16	112
15	114
14	118
13	164
12	272
11	311
10	341
9	386
8	419



## STATION 12

16/ 8/82 0H 0 Z  
 LAT 2 21'S  
 LONG 31 30'W  
 T 3M : 26.1 C  
 T461M : 6.9 C

## STATION 17

17/ 8/82 6H 0 Z  
 LAT 10 30'S  
 LONG 35 7'W  
 T 3M : 25.8 C  
 T461M : 6.1 C

## STATION 22

8/ 9/82 6H 0 Z  
 LAT 17 0'S  
 LONG 37 52'W  
 T 3M : 25.1 C  
 T461M : 9.6 C

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TEMP	PROF
26	42
25	90
24	98
23	101
22	103
21	104
20	104
19	105
18	106
17	107
16	108
15	108
14	113
13	142
12	230
11	296
10	340
9	384
8	410
7	445

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TEMP	PROF
25	101
24	110
23	120
22	148
21	161
20	171
19	180
18	191
17	200
16	213
15	227
14	246
13	266
12	289
11	317
10	341
9	362
8	387
7	426

-----

TEMP	PROF
25	43
24	63
23	83
22	97
21	113
20	138
19	154
18	174
17	188
16	231
15	253
14	291
13	332
12	384
11	411
10	438

## STATION 25

8/ 9/82 18H55 Z  
 LAT 13 18'S  
 LONG 36 5'W  
 T 3M : 25.4 C  
 T396M : 7.5 C

## STATION 26

9/ 9/82 0H 0 Z  
 LAT 11 53'S  
 LONG 35 21'W  
 T 3M : 25.7 C  
 T461M : 7.1 C

## STATION 27

9/ 9/82 6H 0 Z  
 LAT 10 13'S  
 LONG 34 32'W  
 T 3M : 25.9 C  
 T461M : 6.3 C

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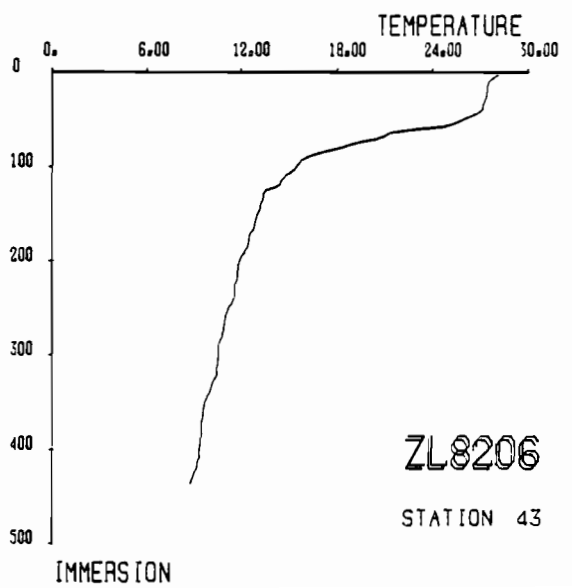
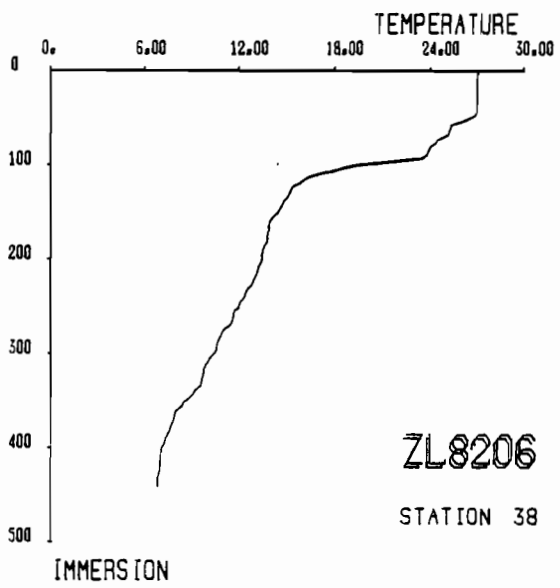
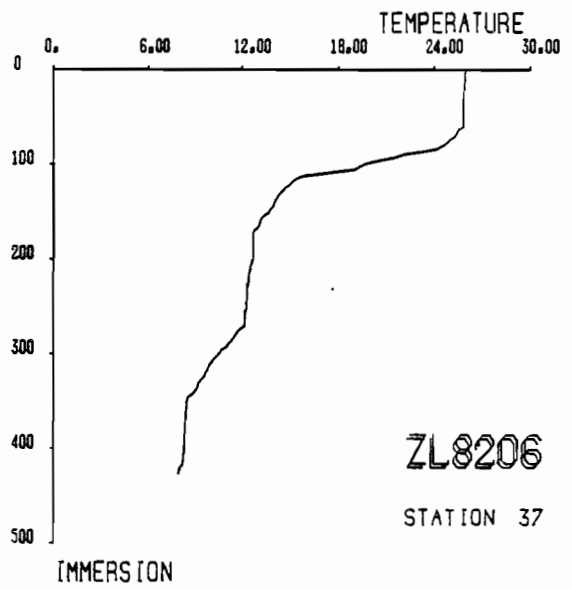
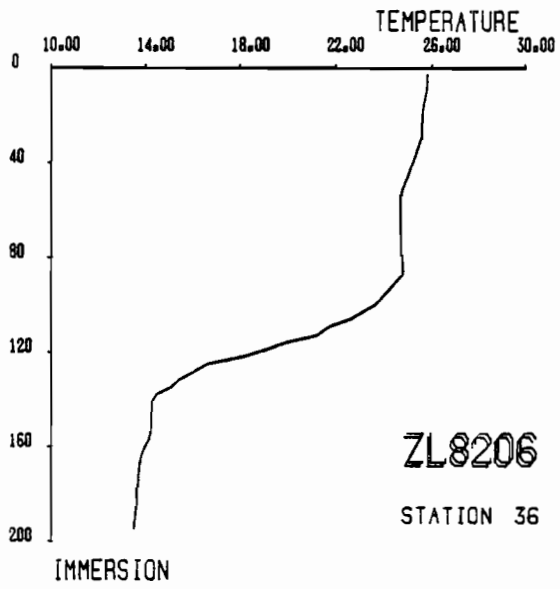
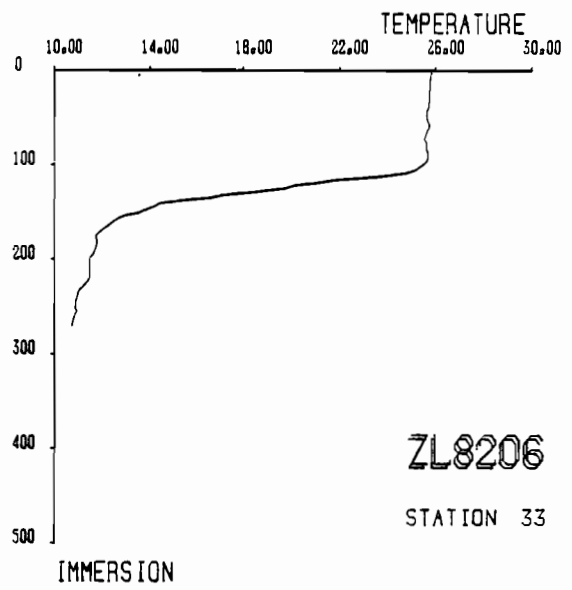
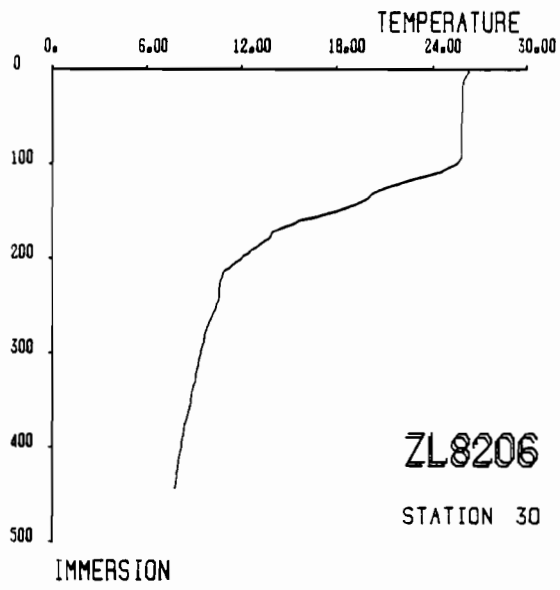
TEMP	PROF
25	96
24	108
23	125
22	150
21	165
20	176
19	186
18	194
17	204
16	212
15	230
14	247
13	262
12	277
11	309
10	337
9	359
8	377

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TEMP	PROF
25	110
24	126
23	137
22	154
21	165
20	181
19	190
18	198
17	207
16	222
15	232
14	246
13	265
12	289
11	311
10	341
9	373
8	410

-----

TEMP	PROF
25	105
24	117
23	138
22	153
21	165
20	177
19	187
18	194
17	206
16	215
15	228
14	240
13	252
12	270
11	296
10	315
9	341
8	372
7	415



## STATION 37

11/ 9/82 0H 0 Z  
 LAT 1 6'N  
 LONG 29 1'W  
 T 3M : 25.9 C  
 T427M : 7.8 C

## STATION 38

11/ 9/82 6H 0 Z  
 LAT 2 30'N  
 LONG 28 21'W  
 T 3M : 27.0 C  
 T442M : 6.8 C

## STATION 43

12/ 9/82 0H15 Z  
 LAT 7 26'N  
 LONG 25 52'W  
 T 3M : 28.1 C  
 T436M : 8.7 C

-----

TEMP	PROF
25	74
24	84
23	87
22	90
21	94
20	98
19	106
18	108
17	110
16	112
15	119
14	139
13	165
12	272
11	291
10	308
9	337
8	419

-----

TEMP	PROF
27	5
26	53
25	68
24	80
23	93
22	95
21	97
20	99
19	101
18	105
17	109
16	115
15	132
14	157
13	218
12	249
11	275
10	309
9	344
8	360
7	405

-----

TEMP	PROF
28	4
27	40
26	49
25	55
24	58
23	60
22	62
21	67
20	72
19	76
18	80
17	84
16	90
15	106
14	122
13	152
12	195
11	258
10	337
9	422

## STATION 30

9/ 9/82 18H35 Z  
 LAT 6 45'S  
 LONG 33 6'W  
 T 3M : 26.3 C  
 T445M : 7.8 C

## STATION 33

10/ 9/82 6H50 Z  
 LAT 3 46'S  
 LONG 31 28'W  
 T 3M : 25.8 C  
 T271M : 10.8 C

## STATION 36

10/ 9/82 18H 0 Z  
 LAT 0 33'S  
 LONG 29 54'W  
 T 3M : 25.8 C  
 T195M : 13.5 C

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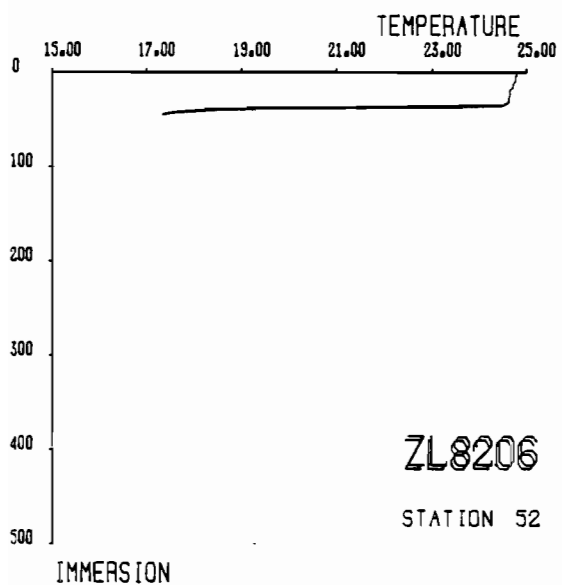
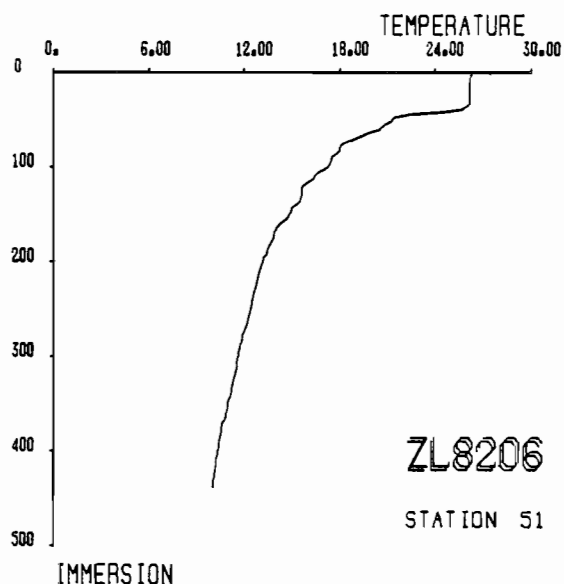
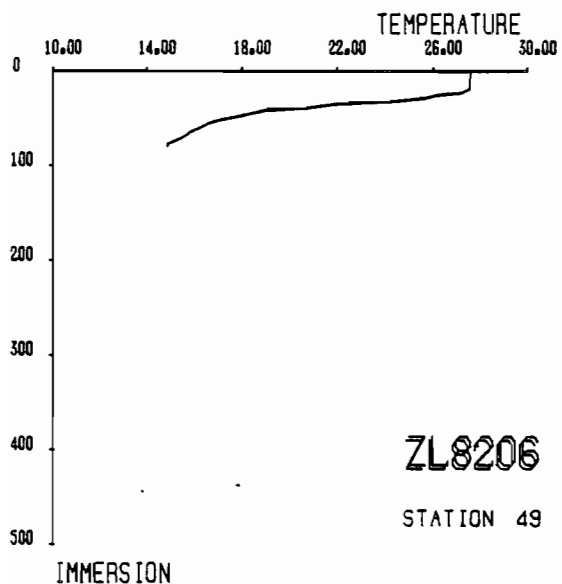
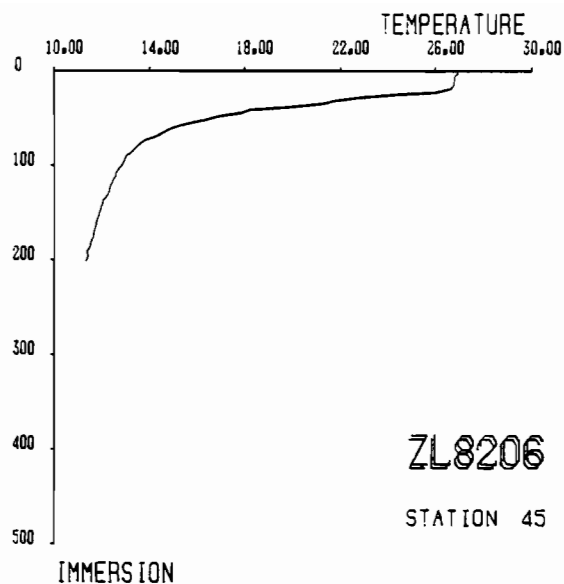
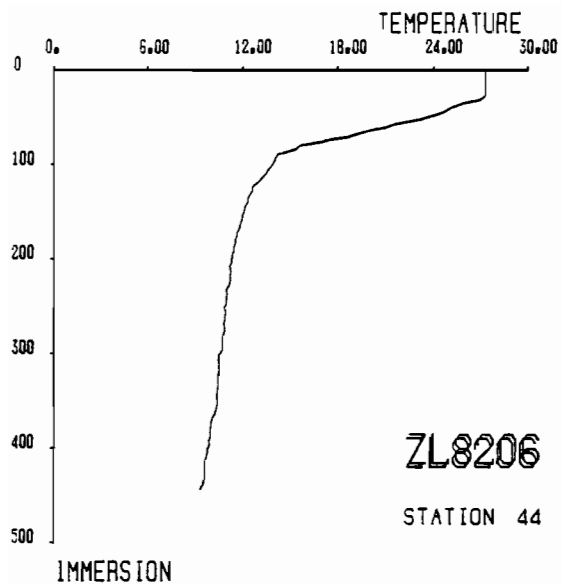
TEMP	PROF
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25	104
24	111
23	115
22	121
21	126
20	136
19	144
18	150
17	155
16	158
15	165
14	172
13	187
12	200
11	213
10	268
9	335
8	418

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TEMP	PROF
25	107
24	111
23	113
22	115
21	119
20	122
19	127
18	129
17	132
16	136
15	139
14	145
13	153
12	170
11	236

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TEMP	PROF
25	46
24	96
23	103
22	108
21	113
20	115
19	119
18	122
17	124
16	128
15	135
14	159





## STATION 44

12/ 9/82 6H10 Z  
 LAT 9 0'N  
 LONG 25 6'W  
 T 3M : 27.3 C  
 T445M : 9.3 C

## STATION 45

12/ 9/82 12H 0 Z  
 LAT 11 0'N  
 LONG 24 5'W  
 T 3M : 26.9 C  
 T202M : 11.3 C

## STATION 49

13/ 9/82 0H25 Z  
 LAT 14 19'N  
 LONG 22 21'W  
 T 3M : 27.6 C  
 T 80M : 14.8 C

-----

TEMP PROF

27 31  
 26 34  
 25 40  
 24 48  
 23 52  
 22 56  
 21 60  
 20 64  
 19 68  
 18 72  
 17 76  
 16 79  
 15 85  
 14 95  
 13 117  
 12 152  
 11 231  
 10 372

TEMP PROF

26 23  
 25 24  
 24 26  
 23 28  
 22 31  
 21 35  
 20 38  
 19 40  
 18 43  
 17 47  
 16 53  
 15 60  
 14 71  
 13 90  
 12 141

TEMP PROF

27 23  
 26 26  
 25 30  
 24 32  
 23 33  
 22 34  
 21 37  
 20 40  
 19 41  
 18 46  
 17 51  
 16 62  
 15 75

## STATION 51

13/ 9/82 12H 0 Z  
 LAT 17 25'N  
 LONG 20 46'W  
 T 3M : 26.2 C  
 T439M : 10.0 C

## STATION 52

13/ 9/82 18H20 Z  
 LAT 19 3'N  
 LONG 19 56'W  
 T 3M : 24.8 C  
 T 45M : 17.3 C

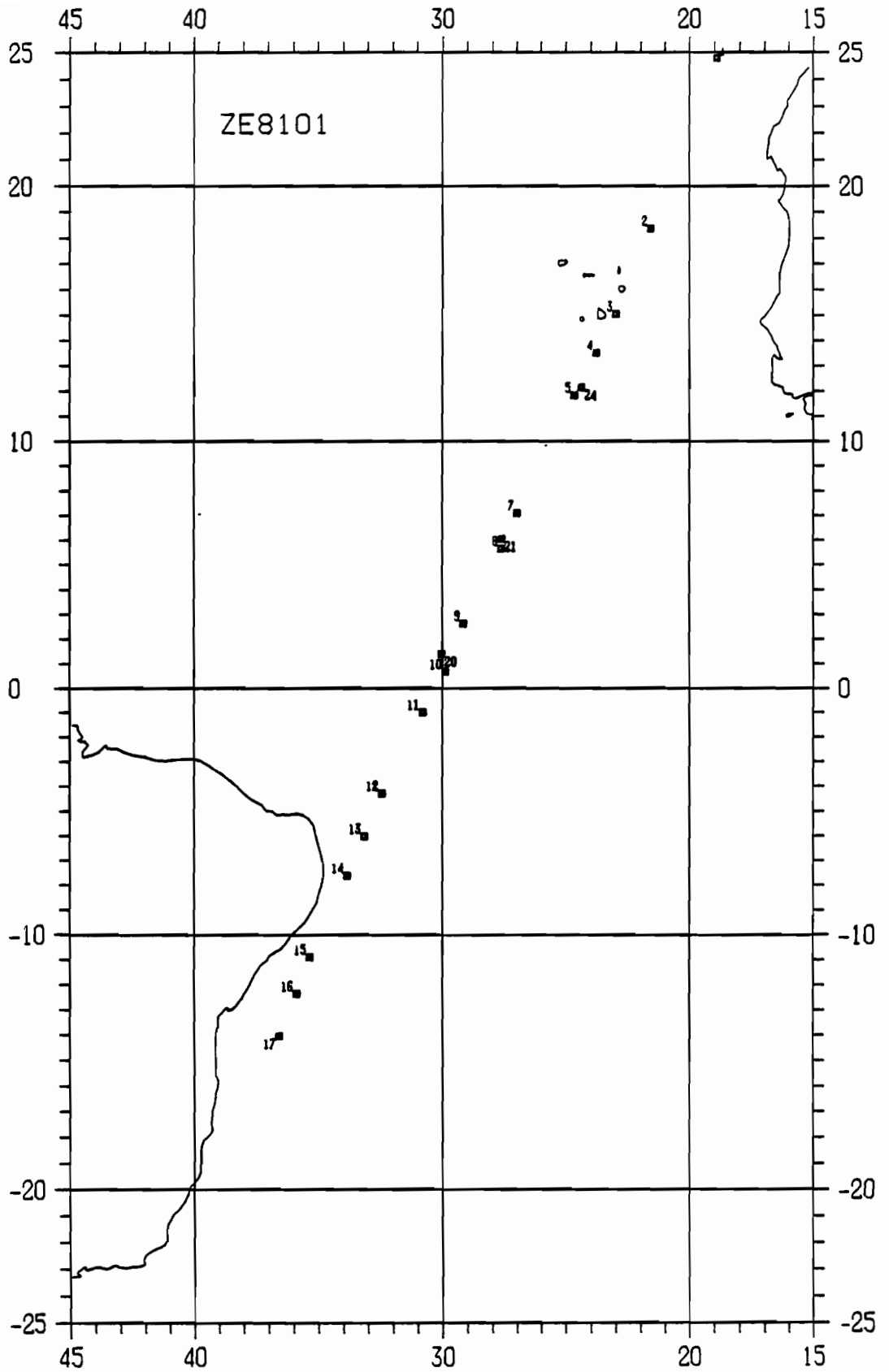
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TEMP PROF

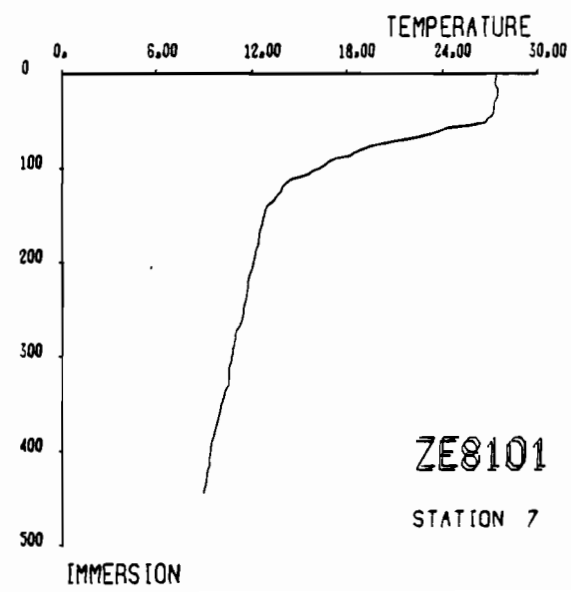
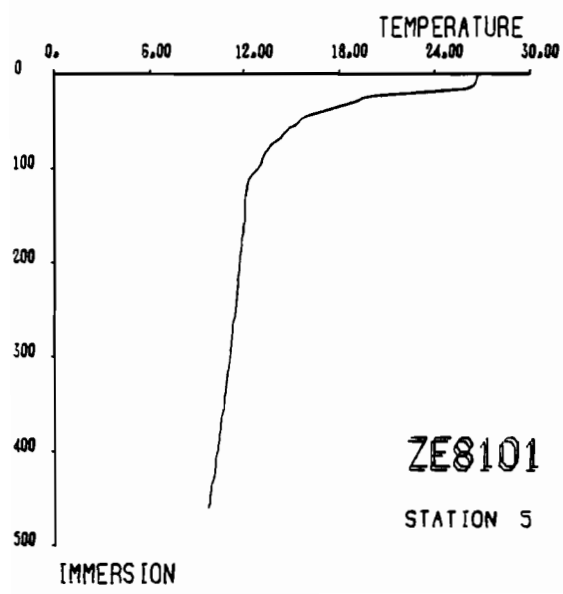
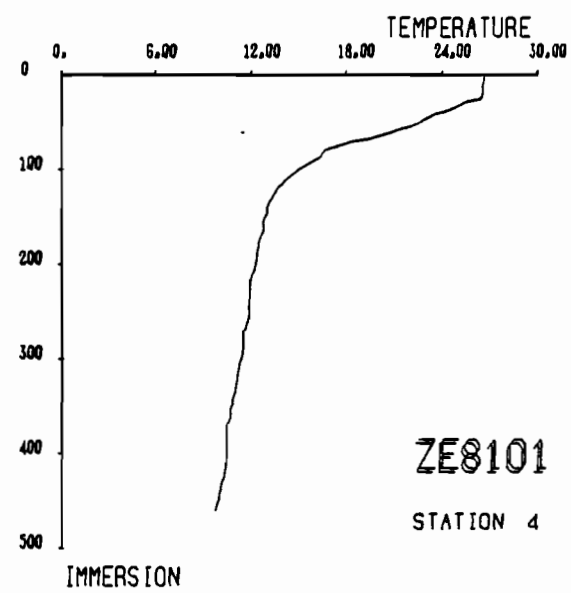
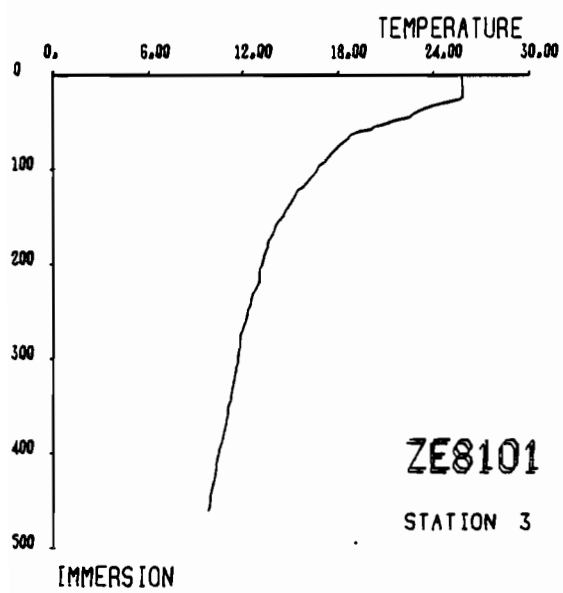
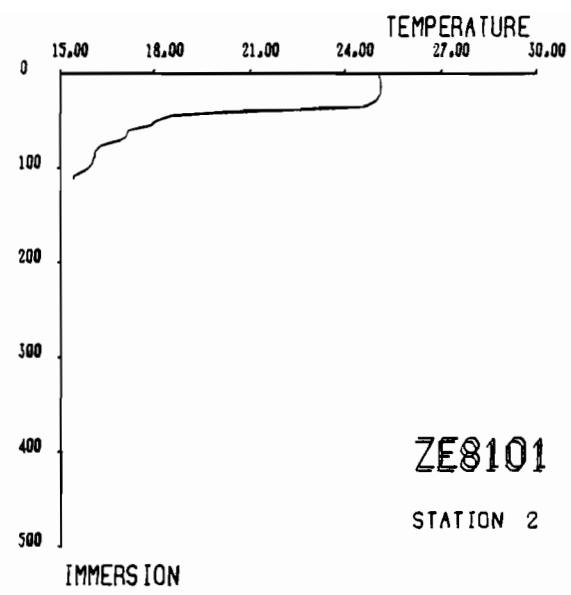
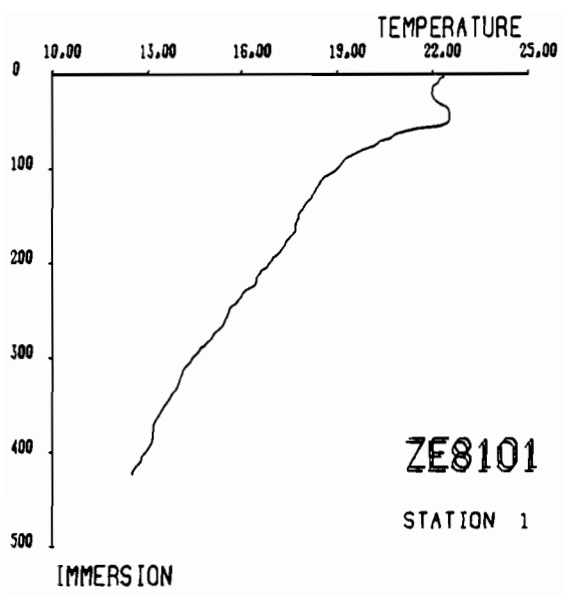
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 25 41  
 24 42  
 23 44  
 22 45  
 21 53  
 20 63  
 19 69  
 18 78  
 17 102  
 16 116  
 15 143  
 14 166  
 13 209  
 12 273  
 11 346  
 10 431

TEMP PROF

24 35  
 23 35  
 22 36  
 21 37  
 20 38  
 19 38  
 18 40





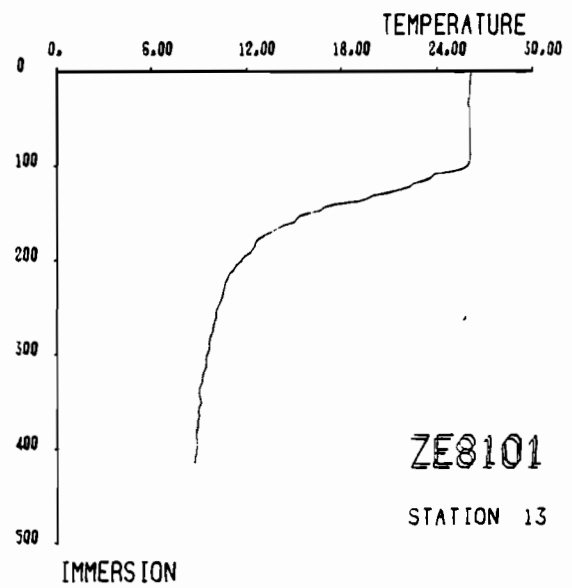
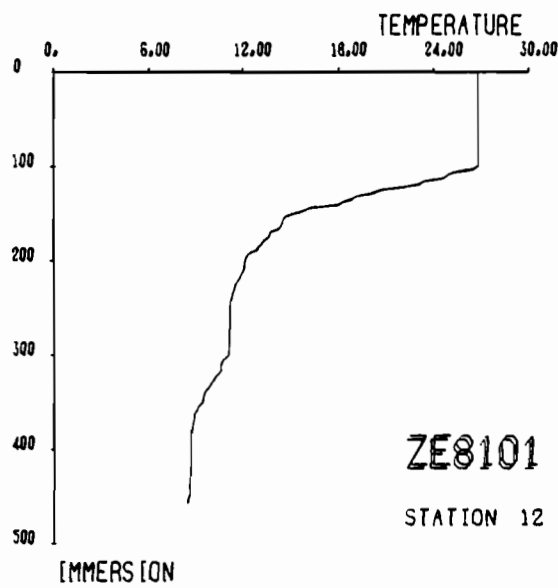
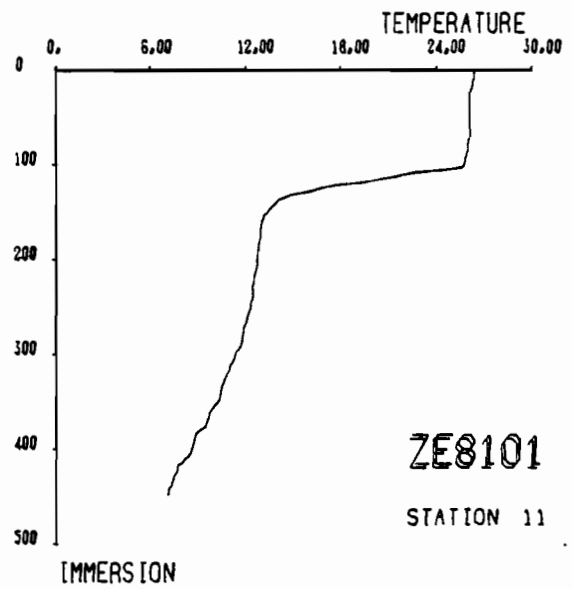
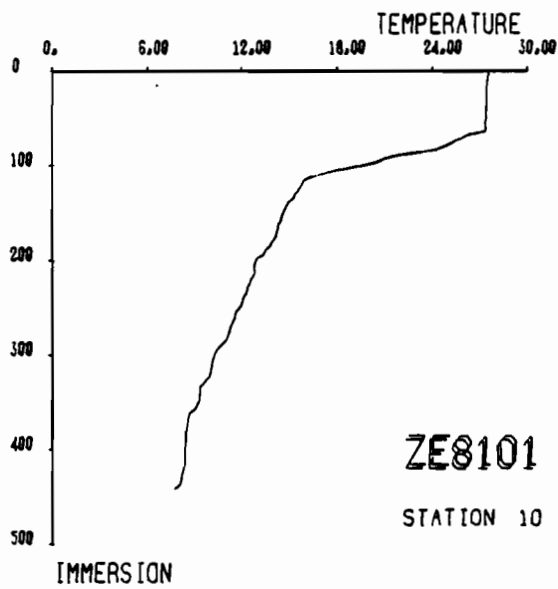
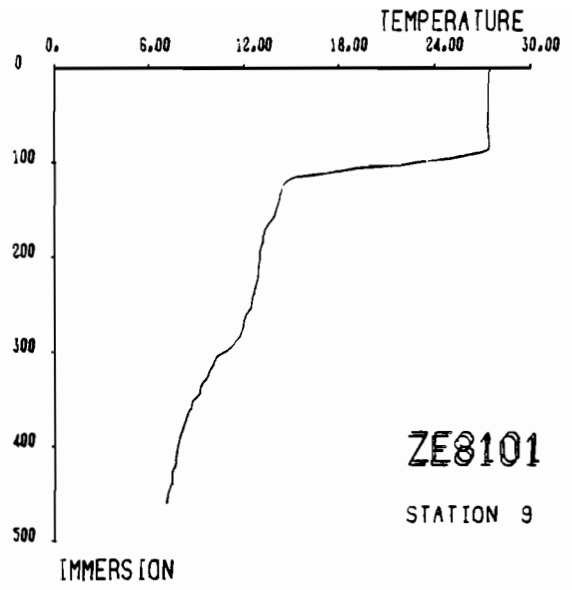
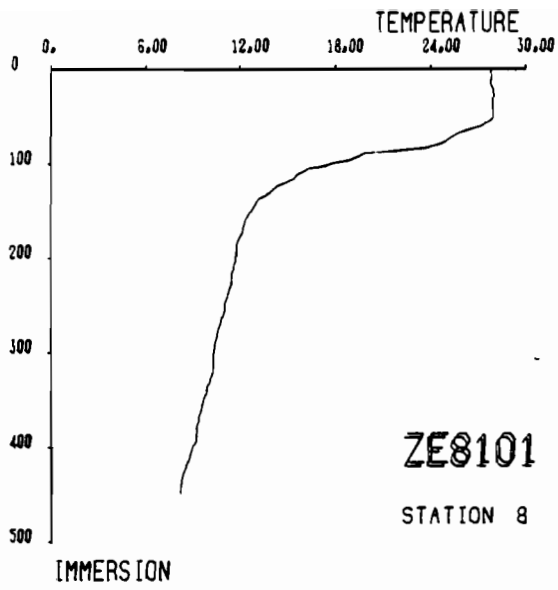


STATION 1	STATION 2	STATION 3
12/ 8/81 18H 0 Z	13/ 8/81 18H 0 Z	14/ 8/81 6H 0 Z
LAT 24 49'N	LAT 18 22'N	LAT 15 3'N
LONG 18 56'W	LONG 21 36'W	LONG 23 1'W
T 3M : 22.3 C	T 3M : 25.1 C	T 3M : 25.8 C
T424M : 12.5 C	T112M : 15.4 C	T461M : 9.8 C

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TEMP PROF	TEMP PROF	TEMP PROF
22 14	25 28	25 28
21 62	24 35	24 32
20 78	23 37	23 38
19 99	22 39	22 46
18 135	21 40	21 51
17 193	20 41	20 58
16 233	19 44	19 62
15 281	18 51	18 75
14 322	17 69	17 93
13 395	16 96	16 112
		15 132
		14 158
		13 209
		12 268
		11 361
		10 437

STATION 4	STATION 5	STATION 7
14/ 8/81 12H 0 Z	14/ 8/81 18H 0 Z	15/ 8/81 12H 0 Z
LAT 13 31'N	LAT 11 50'N	LAT 7 6'N
LONG 23 49'W	LONG 24 41'W	LONG 27 1'W
T 3M : 26.7 C	T 3M : 26.7 C	T 3M : 27.4 C
T461M : 9.6 C	T461M : 9.7 C	T445M : 8.9 C

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TEMP PROF	TEMP PROF	TEMP PROF
26 27	26 15	27 46
25 32	25 17	26 53
24 39	24 18	25 56
23 46	23 19	24 59
22 54	22 20	23 64
21 60	21 22	22 68
20 65	20 24	21 71
19 69	19 29	20 75
18 72	18 34	19 80
17 78	17 39	18 87
16 90	16 44	17 92
15 99	15 53	16 101
14 113	14 70	15 109
13 138	13 96	14 117
12 211	12 160	13 139
11 327	11 314	12 205
10 435	10 431	11 272
		10 351
		9 437

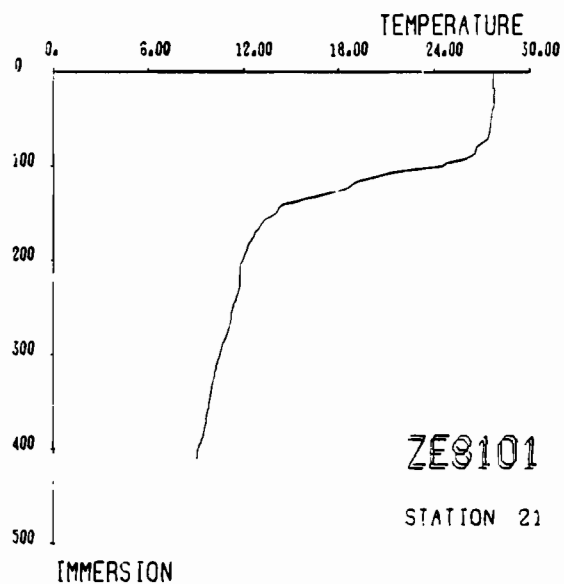
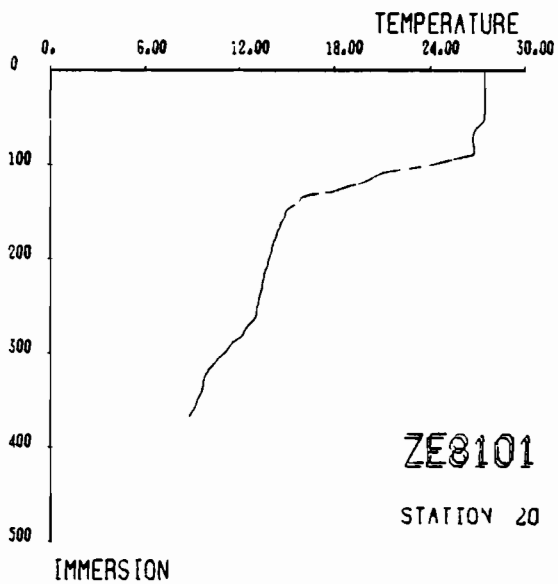
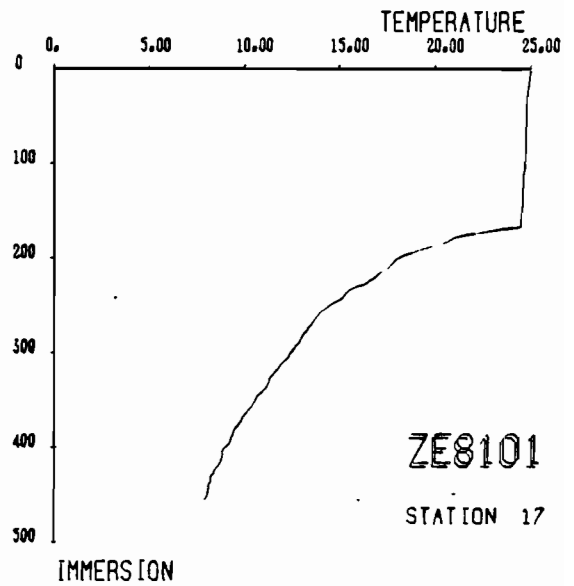
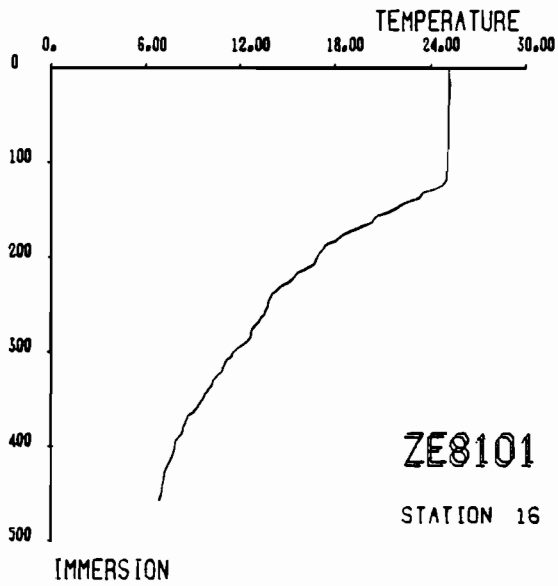
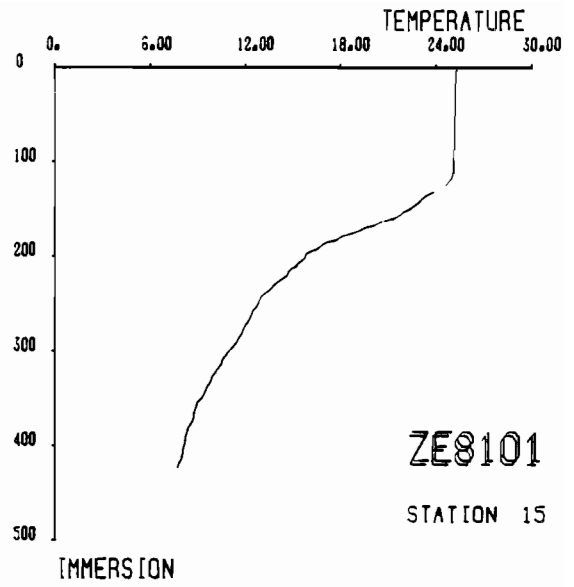
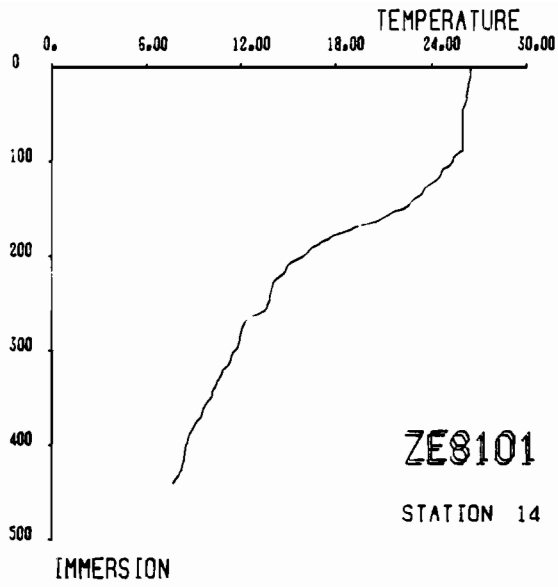


STATION 8	STATION 9	STATION 10
15/ 8/81 18H 0 Z	16/ 8/81 6H 0 Z	16/ 8/81 12H 0 Z
LAT 5 40'N	LAT 2 37'N	LAT 0 40'N
LONG 27 40'W	LONG 29 11'W	LONG 29 54'W
T 3M : 27.8 C	T 3M : 27.4 C	T 3M : 27.5 C
T449M : 8.1 C	T461M : 7.0 C	T442M : 7.7 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
27	61	27	89	27	65
26	66	26	92	26	69
25	75	25	95	25	77
24	82	24	97	24	84
23	84	23	99	23	86
22	86	22	102	22	89
21	88	21	103	21	93
20	89	20	105	20	98
19	95	19	107	19	102
18	99	18	109	18	105
17	103	17	112	17	109
16	107	16	114	16	114
15	118	15	117	15	137
14	127	14	152	14	177
13	140	13	191	13	197
12	176	12	264	12	246
11	249	11	297	11	284
10	331	10	311	10	318
9	397	9	347	9	356
		8	385	8	437

STATION 11	STATION 12	STATION 13
16/ 8/81 18H 0 Z	17/ 8/81 6H 0 Z	17/ 8/81 12H 0 Z
LAT 0 59'S	LAT 4 17'S	LAT 6 1'S
LONG 30 48'W	LONG 32 28'W	LONG 33 10'W
T 3M : 26.4 C	T 3M : 26.7 C	T 3M : 26.1 C
T449M : 7.1 C	T458M : 8.4 C	T415M : 8.6 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
26	74	26	104	26	26
25	104	25	107	25	105
24	106	24	114	24	108
23	108	23	119	23	116
22	110	22	121	22	123
21	114	21	124	21	128
20	116	20	129	20	131
19	119	19	132	19	138
18	121	18	140	18	140
17	124	17	142	17	143
16	129	16	144	16	150
15	131	15	150	15	160
14	138	14	167	14	165
13	160	13	184	13	174
12	266	12	211	12	194
11	311	11	302	11	212
10	353	10	329	10	255
9	380	9	359	9	333
8	412				





## STATION 14

17/ 8/81 18H 0 Z  
 LAT 7 36'S  
 LONG 33 52'W  
 T 3M : 26.5 C  
 T442M : 7.7 C

## STATION 15

18/ 8/81 6H 0 Z  
 LAT 10 54'S  
 LONG 35 21'W  
 T 3M : 25.3 C  
 T424M : 7.7 C

## STATION 16

18/ 8/81 12H 0 Z  
 LAT 12 22'S  
 LONG 35 53'W  
 T 3M : 25.1 C  
 T458M : 6.8 C

TEMP PROF

26 44  
 25 106  
 24 123  
 23 139  
 22 151  
 21 159  
 20 166  
 19 172  
 18 178  
 17 187  
 16 199  
 15 208  
 14 227  
 13 262  
 12 281  
 11 319  
 10 353  
 9 382  
 8 433

TEMP PROF

25 116  
 24 130  
 23 140  
 22 152  
 21 161  
 20 167  
 19 173  
 18 179  
 17 186  
 16 196  
 15 213  
 14 228  
 13 242  
 12 272  
 11 299  
 10 324  
 9 353  
 8 408

TEMP PROF

25 110  
 24 129  
 23 139  
 22 146  
 21 154  
 20 165  
 19 172  
 18 182  
 17 195  
 16 213  
 15 226  
 14 238  
 13 270  
 12 294  
 11 314  
 10 340  
 9 364  
 8 392  
 7 449

## STATION 17

18/ 8/81 18H 0 Z  
 LAT 14 2'S  
 LONG 36 35'W  
 T 3M : 25.0 C  
 T455M : 7.9 C

## STATION 20

24/ 9/81 18H 0 Z  
 LAT 1 24'N  
 LONG 30 4'W  
 T 3M : 27.4 C  
 T368M : 8.8 C

## STATION 21

25/ 9/81 12H 0 Z  
 LAT 6 3'N  
 LONG 27 38'W  
 T 3M : 27.7 C  
 T411M : 9.0 C

TEMP PROF

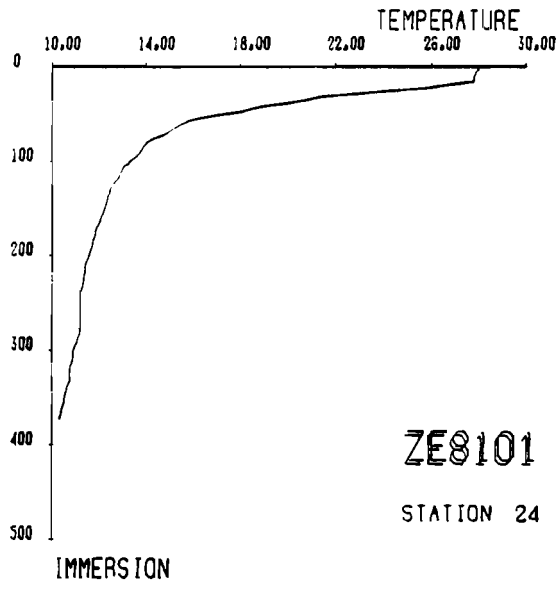
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 20 186  
 19 192  
 18 200  
 17 216  
 16 229  
 15 244  
 14 257  
 13 284  
 12 310  
 11 339  
 10 364  
 9 398  
 8 449

TEMP PROF

27 60  
 26 92  
 25 96  
 24 100  
 23 103  
 22 105  
 21 108  
 20 117  
 19 121  
 18 128  
 17 130  
 16 133  
 15 146  
 14 186  
 13 256  
 12 283  
 11 300  
 10 318  
 9 362

TEMP PROF

27 75  
 26 92  
 25 96  
 24 100  
 23 102  
 22 104  
 21 107  
 20 112  
 19 117  
 18 126  
 17 130  
 16 134  
 15 139  
 14 150  
 13 164  
 12 195  
 11 272  
 10 329  
 9 410



STATION 24

26/ 9/81 12H 0 Z

LAT 12 9'N

LONG 24 25'W

T 3M : 28.0 C

T374H : 10.3 C

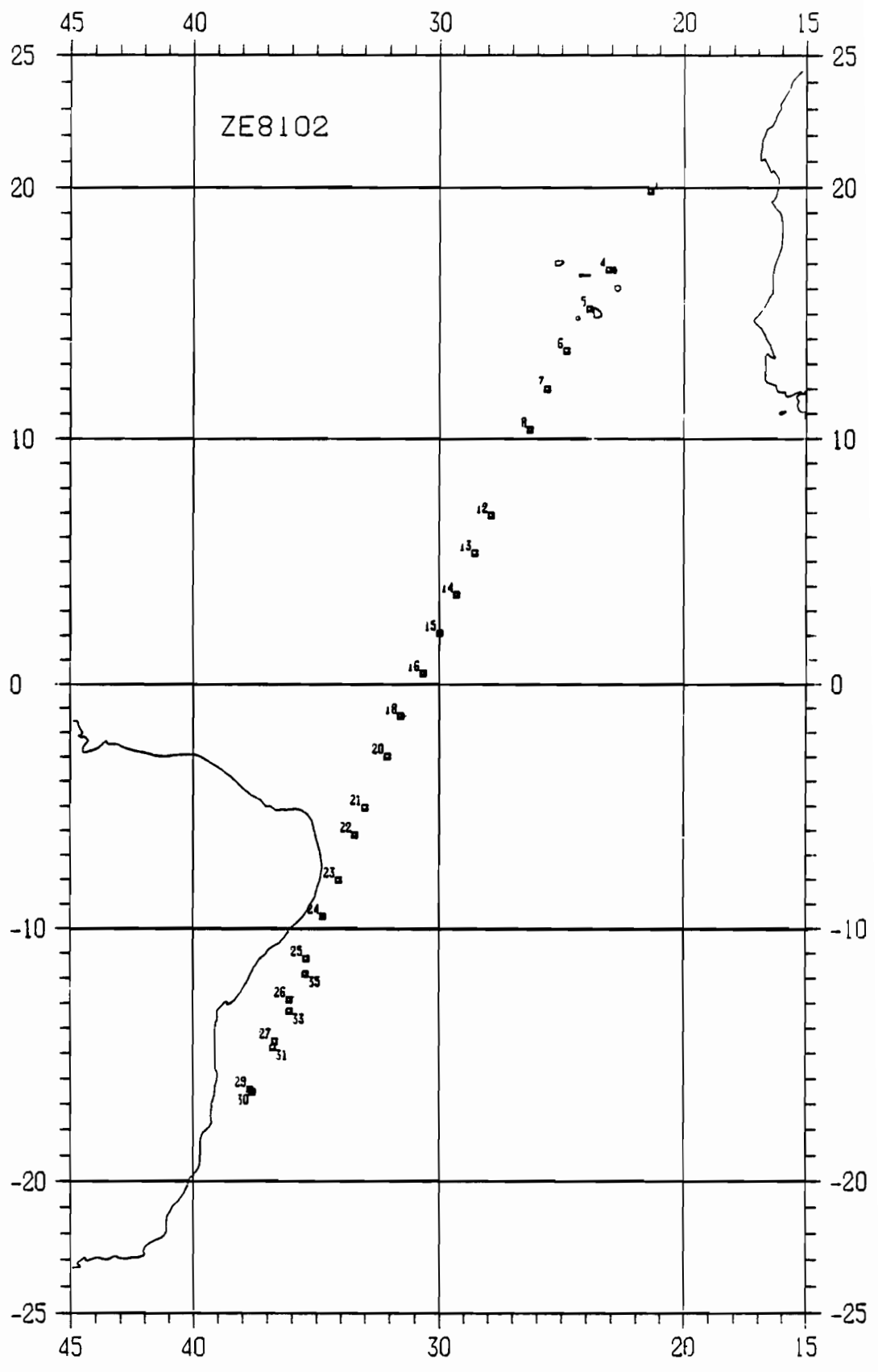
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TEMP PROF

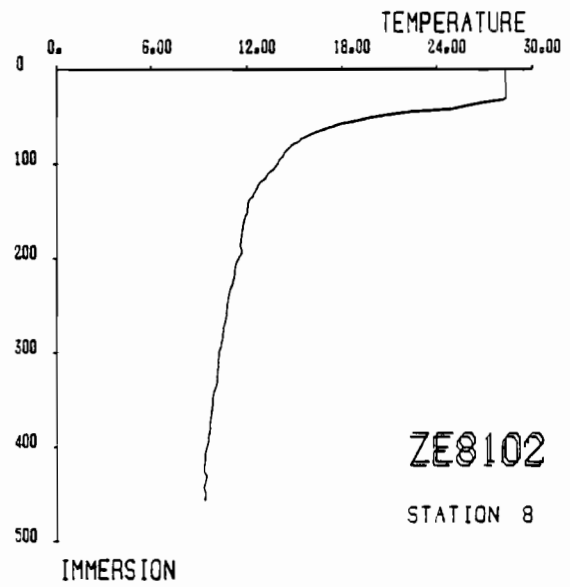
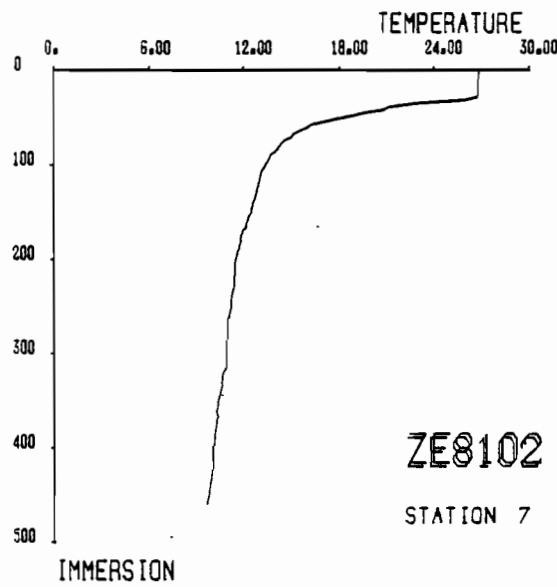
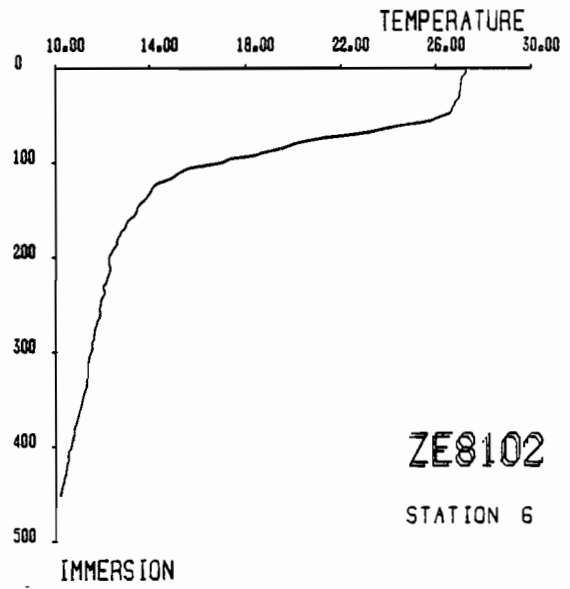
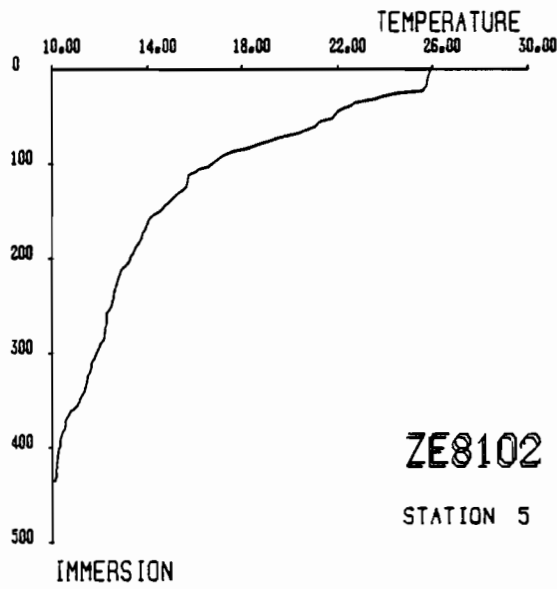
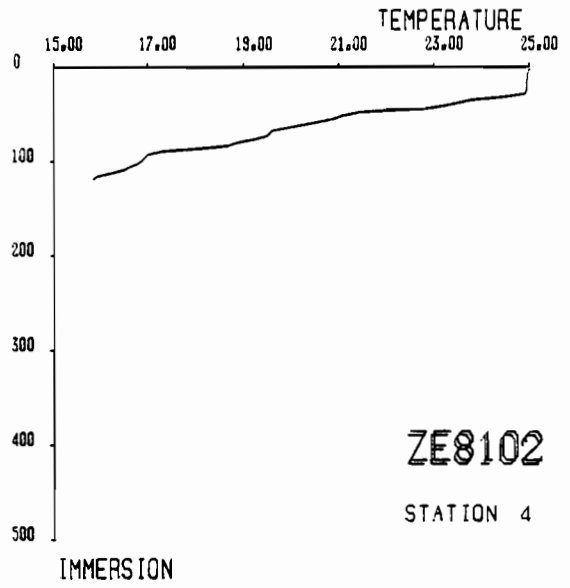
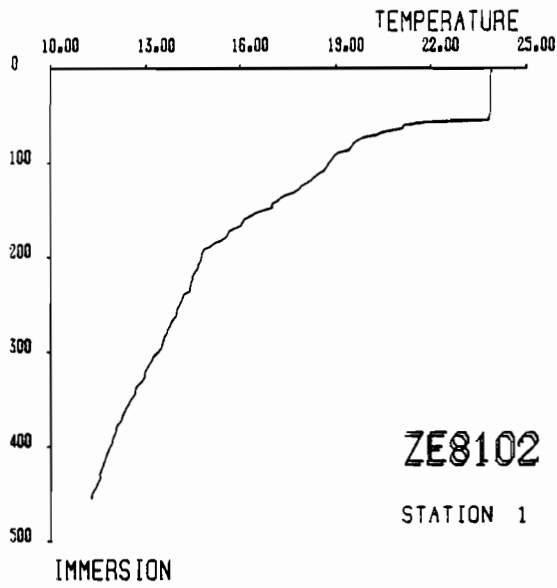
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25	24
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23	28
22	30
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20	38
19	42
18	48
17	51
16	56
15	68
14	81
13	108
12	166
11	294

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*   DATE DEBUT DE CROISIERE           DATE FIN DE CROISIERE
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*
*
*   LATITUDE   MINIMUM                 LATITUDE   MAXIMUM
*
*       16 30 S                          19 52 N
*
*
*   LONGITUDE  MINIMUM                 LONGITUDE  MAXIMUM
*
*       21 25 W                          37 42 W
*
*
*   NOMBRE DE STATIONS                 +GD. NO. DE STATION
*
*       25                               35
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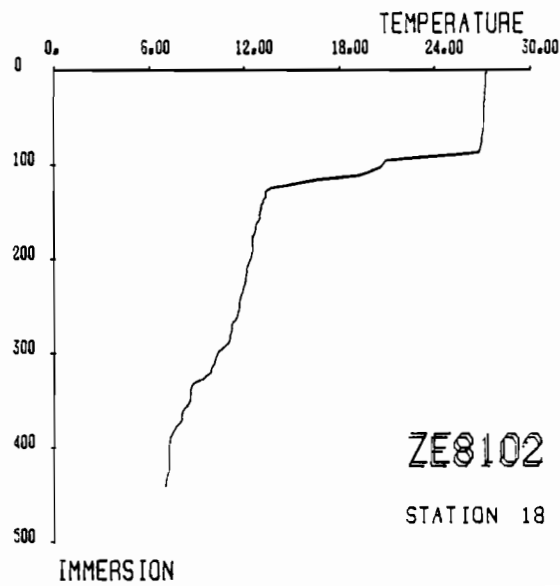
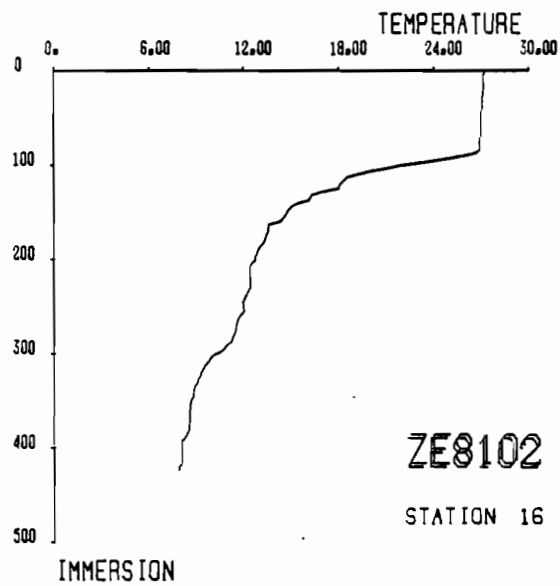
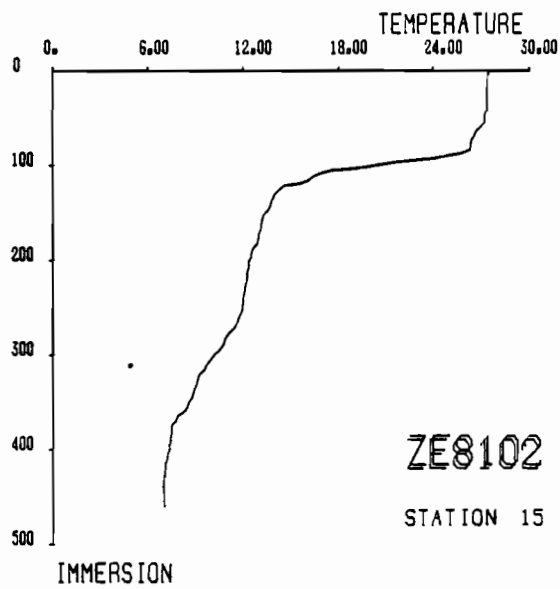
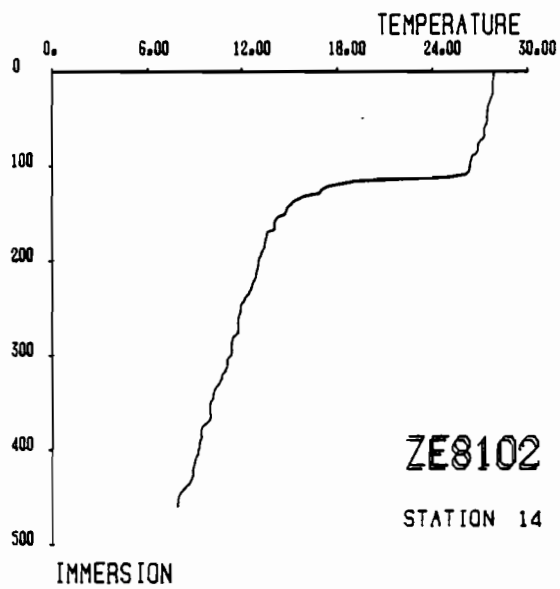
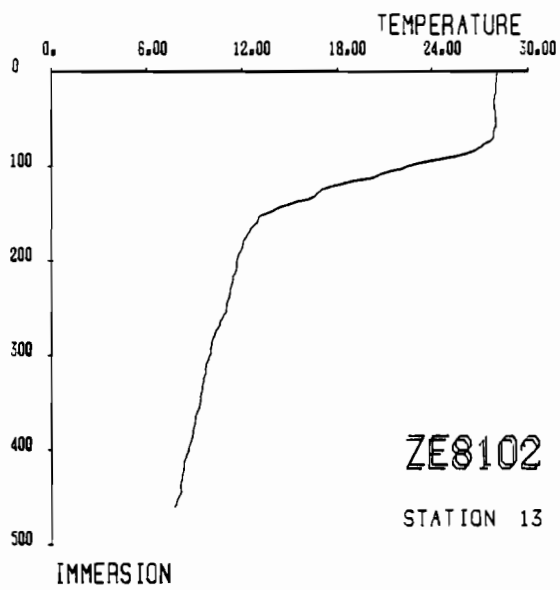
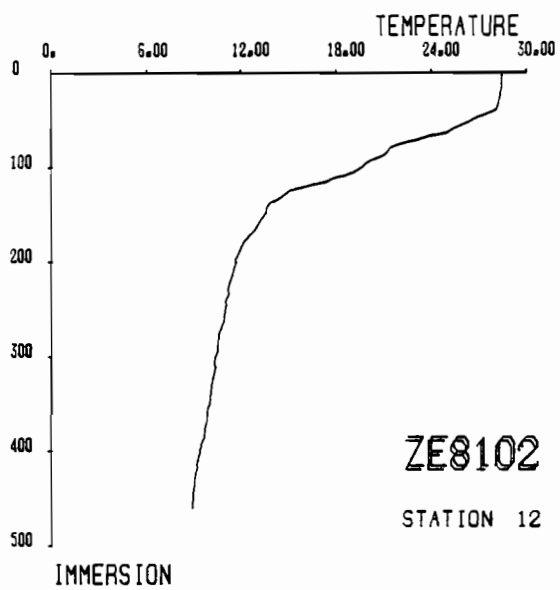


STATION 1	STATION 4	STATION 5
4/11/81 18H20 Z	5/11/81 6H10 Z	5/11/81 12H 0 Z
LAT 19 52'N	LAT 16 46'N	LAT 15 12'N
LONG 21 25'W	LONG 23 8'W	LONG 23 54'W
T 3M : 23.9 C	T 3M : 25.0 C	T 3M : 25.9 C
T455M : 11.3 C	T119M : 15.8 C	T436M : 10.1 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
23	56	24	33	25	24
22	57	23	43	24	28
21	64	22	46	23	34
20	73	21	52	22	44
19	91	20	63	21	61
18	123	19	78	20	69
17	143	18	86	19	77
16	167	17	93	18	85
15	189	16	114	17	94
14	252			16	108
13	318			15	137
12	387			14	159
				13	208
				12	290
				11	356

STATION 6	STATION 7	STATION 8
5/11/81 18H 0 Z	6/11/81 0H 0 Z	6/11/81 6H 0 Z
LAT 13 33'N	LAT 12 0'N	LAT 10 22'N
LONG 24 50'W	LONG 25 36'W	LONG 26 19'W
T 3M : 27.2 C	T 3M : 26.8 C	T 3M : 28.3 C
T452M : 10.2 C	T461M : 9.6 C	T458M : 9.4 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
27	19	26	31	28	32
26	52	25	32	27	34
25	59	24	33	26	37
24	63	23	34	25	41
23	68	22	37	24	42
22	71	21	40	23	44
21	75	20	44	22	45
20	80	19	47	21	47
19	88	18	50	20	50
18	93	17	54	19	53
17	100	16	60	18	57
16	104	15	70	17	62
15	115	14	85	16	68
14	132	13	116	15	78
13	163	12	169	14	97
12	230	11	263	13	117
11	361	10	401	12	151
				11	230
				10	340





## STATION 12

6/11/81 18H10 Z  
 LAT 6 55'N  
 LONG 27 53'W  
 T 3M : 28.5 C  
 T461M : 8.9 C

## STATION 13

7/11/81 0H 0 Z  
 LAT 5 21'N  
 LONG 28 33'W  
 T 3M : 28.0 C  
 T461M : 7.8 C

## STATION 14

7/11/81 6H 0 Z  
 LAT 3 40'N  
 LONG 29 18'W  
 T 3M : 27.9 C  
 T461M : 7.8 C

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TEMP	PROF
28	40
27	47
26	54
25	63
24	66
23	71
22	76
21	87
20	94
19	106
18	111
17	117
16	121
15	125
14	136
13	163
12	186
11	255
10	351
9	437

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TEMP	PROF
28	3
27	79
26	87
25	91
24	94
23	97
22	103
21	107
20	113
19	115
18	119
17	124
16	135
15	140
14	146
13	155
12	185
11	247
10	293
9	371
8	450

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TEMP	PROF
27	74
26	109
25	111
24	112
23	113
22	113
21	114
20	115
19	116
18	119
17	125
16	131
15	141
14	167
13	204
12	245
11	313
10	349
9	408
8	446

## STATION 15

7/11/81 12H 0 Z  
 LAT 2 5'N  
 LONG 30 0'W  
 T 3M : 27.4 C  
 T461M : 7.0 C

## STATION 16

7/11/81 18H 0 Z  
 LAT 0 27'N  
 LONG 30 41'W  
 T 3M : 27.2 C  
 T424M : 7.8 C

## STATION 18

8/11/81 0H30 Z  
 LAT 1 18'S  
 LONG 31 35'W  
 T 3M : 27.2 C  
 T442M : 7.0 C

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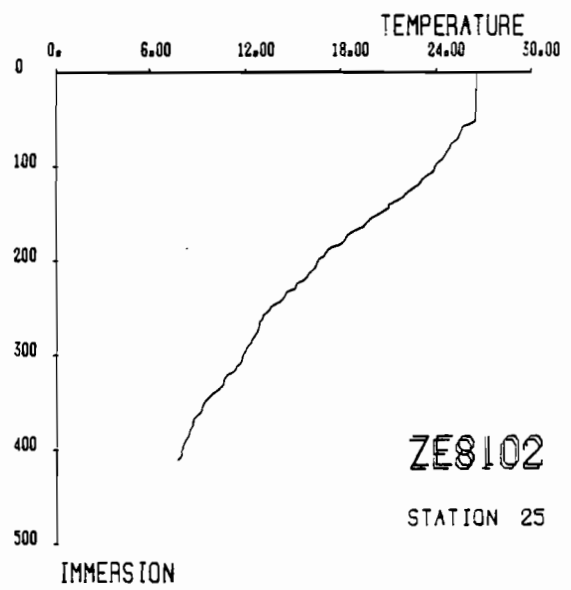
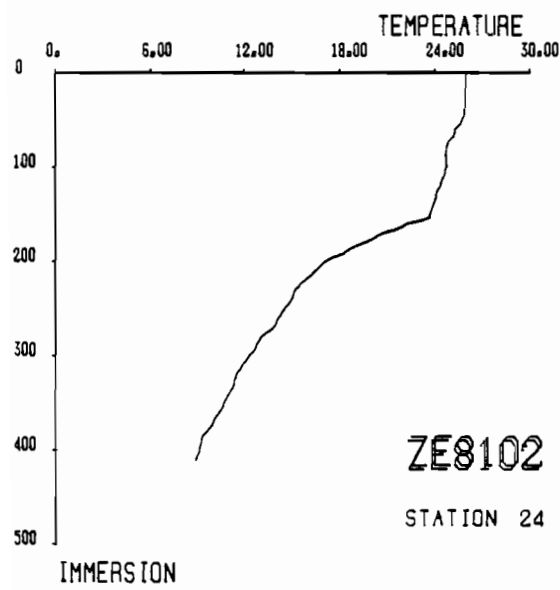
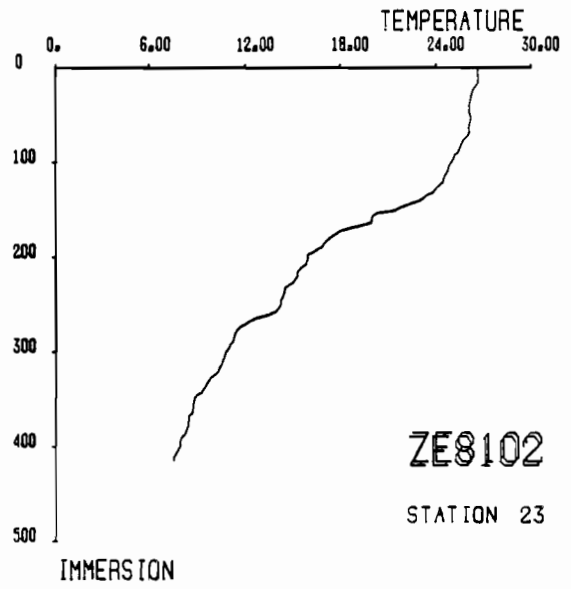
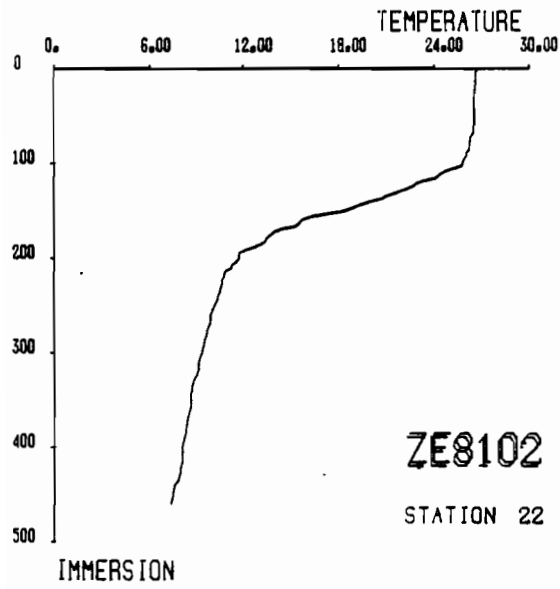
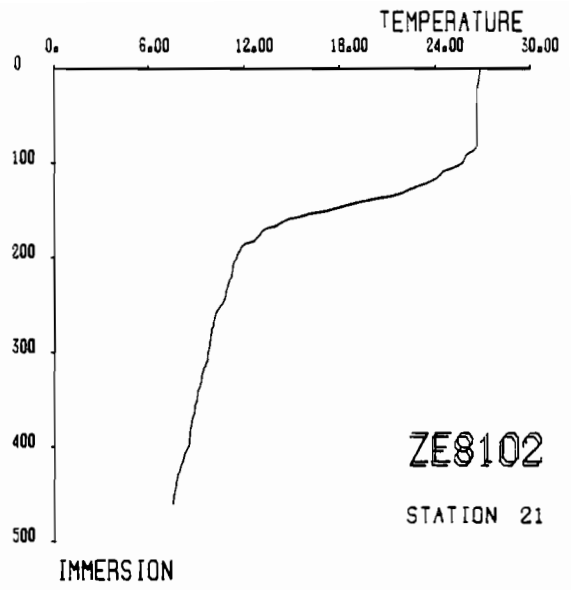
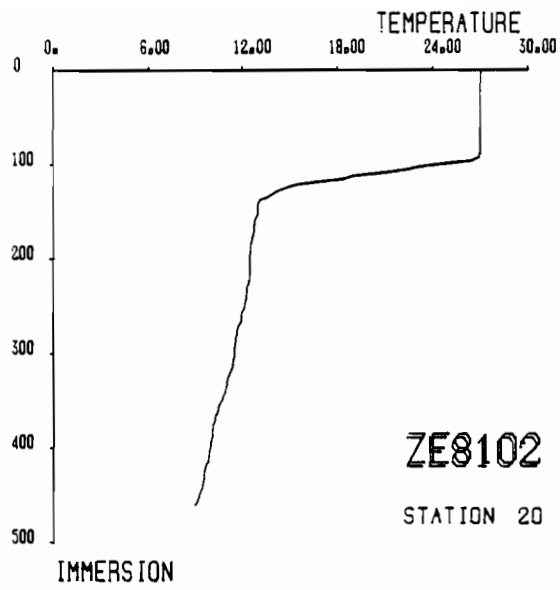
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26	85
25	89
24	93
23	94
22	96
21	98
20	100
19	103
18	105
17	107
16	116
15	120
14	129
13	170
12	235
11	279
10	303
9	332
8	362

-----

TEMP	PROF
27	47
26	90
25	92
24	95
23	97
22	100
21	103
20	106
19	111
18	125
17	128
16	138
15	144
14	161
13	188
12	244
11	290
10	303
9	331
8	399

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TEMP	PROF
27	49
26	88
25	90
24	91
23	92
22	94
21	95
20	106
19	112
18	113
17	115
16	117
15	120
14	124
13	143
12	227
11	288
10	313
9	330
8	372
7	437



## STATION 20

8/11/81 6H30 Z  
 LAT 2 57'S  
 LONG 32 7'W  
 T 3M : 27.1 C  
 T461M : 9.0 C

## STATION 21

8/11/81 14H10 Z  
 LAT 5 4'S  
 LONG 33 0'W  
 T 3M : 26.8 C  
 T461M : 7.5 C

## STATION 22

8/11/81 18H 0 Z  
 LAT 6 10'S  
 LONG 33 26'W  
 T 3M : 26.7 C  
 T461M : 7.3 C

-----

TEMP PROF

27 24  
 26 97  
 25 99  
 24 101  
 23 103  
 22 107  
 21 109  
 20 111  
 19 112  
 18 116  
 17 118  
 16 120  
 15 123  
 14 130  
 13 142  
 12 256  
 11 335  
 10 394  
 9 460

TEMP PROF

26 91  
 25 106  
 24 116  
 23 124  
 22 130  
 21 135  
 20 138  
 19 142  
 18 146  
 17 151  
 16 154  
 15 158  
 14 166  
 13 174  
 12 186  
 11 226  
 10 272  
 9 346  
 8 419

TEMP PROF

26 94  
 25 107  
 24 116  
 23 121  
 22 129  
 21 135  
 20 141  
 19 146  
 18 151  
 17 154  
 16 157  
 15 167  
 14 172  
 13 186  
 12 192  
 11 213  
 10 256  
 9 324  
 8 418

## STATION 23

9/11/81 0H40 Z  
 LAT 8 0'S  
 LONG 34 7'W  
 T 3M : 26.6 C  
 T415M : 7.5 C

## STATION 24

9/11/81 6H 0 Z  
 LAT 9 29'S  
 LONG 34 45'W  
 T 3M : 26.0 C  
 T411M : 8.8 C

## STATION 25

9/11/81 12H 0 Z  
 LAT 11 12'S  
 LONG 35 26'W  
 T 3M : 26.5 C  
 T411M : 7.7 C

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TEMP PROF

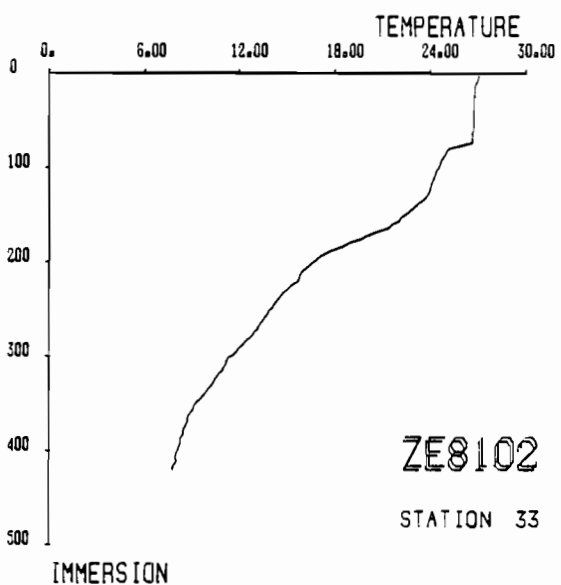
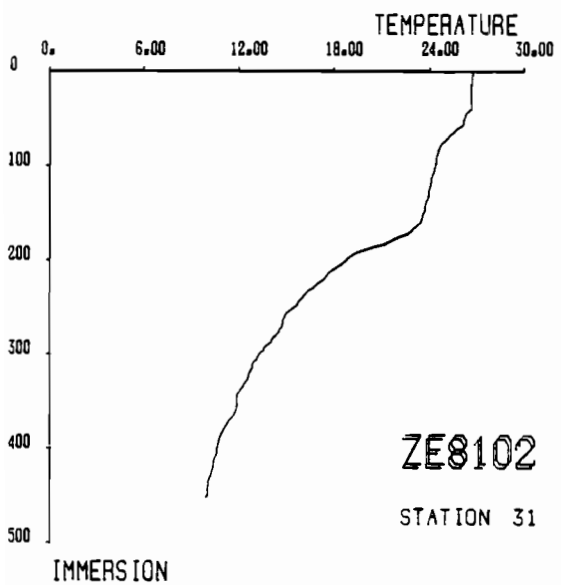
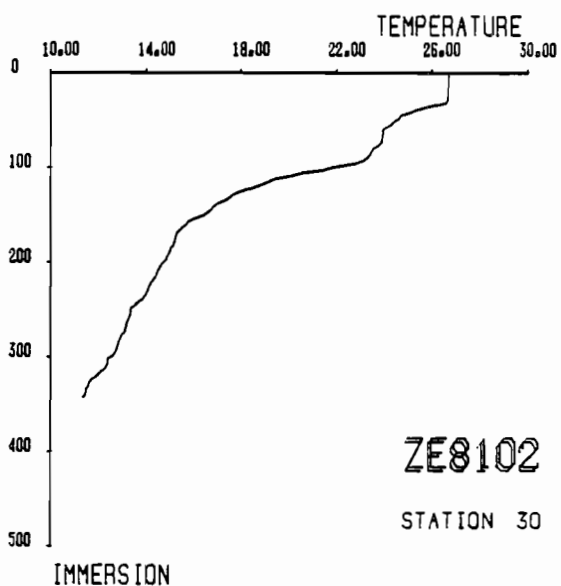
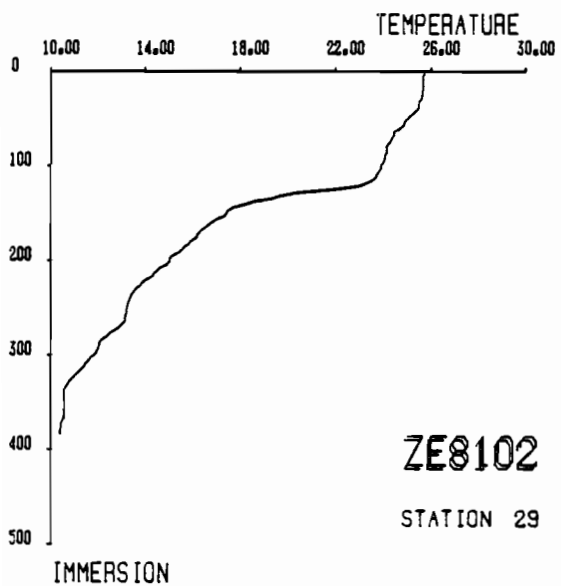
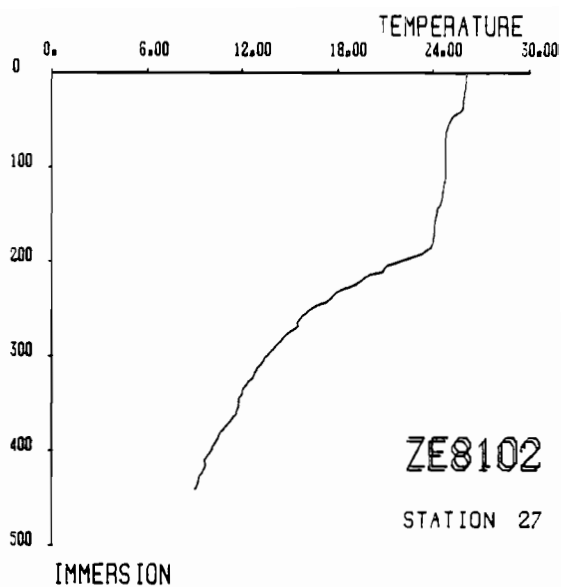
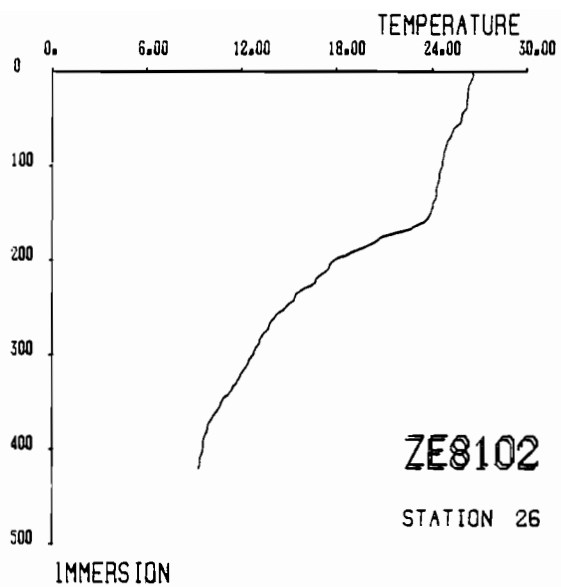
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 25 99  
 24 127  
 23 139  
 22 146  
 21 152  
 20 157  
 19 167  
 18 172  
 17 184  
 16 197  
 15 226  
 14 256  
 13 263  
 12 270  
 11 293  
 10 324  
 9 345  
 8 390

TEMP PROF

25 70  
 24 134  
 23 157  
 22 162  
 21 169  
 20 177  
 19 184  
 18 193  
 17 201  
 16 216  
 15 233  
 14 262  
 13 281  
 12 307  
 11 341  
 10 369  
 9 404

TEMP PROF

26 55  
 25 75  
 24 95  
 23 114  
 22 129  
 21 140  
 20 154  
 19 166  
 18 181  
 17 191  
 16 212  
 15 230  
 14 244  
 13 261  
 12 293  
 11 319  
 10 339  
 9 362  
 8 399



## STATION 26

9/11/81 18H 0 Z  
 LAT 12 51'S  
 LONG 36 7'W  
 T 3M : 26.6 C  
 T421M : 9.3 C

## STATION 27

10/11/81 0H 0 Z  
 LAT 14 30'S  
 LONG 36 42'W  
 T 3M : 26.1 C  
 T442M : 9.0 C

## STATION 29

10/11/81 6H30 Z  
 LAT 16 24'S  
 LONG 37 42'W  
 T 3M : 25.7 C  
 T384M : 10.4 C

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TEMP	PROF
26	43
25	73
24	142
23	163
22	170
21	174
20	184
19	191
18	198
17	215
16	229
15	246
14	262
13	290
12	320
11	344
10	370

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TEMP	PROF
26	17
25	53
24	179
23	193
22	199
21	205
20	214
19	224
18	231
17	244
16	254
15	274
14	291
13	311
12	338
11	374
10	401
9	441

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TEMP	PROF
25	49
24	95
23	121
22	125
21	127
20	130
19	136
18	142
17	156
16	177
15	202
14	220
13	267
12	294
11	322

## STATION 30

16/12/81 6H 0 Z  
 LAT 16 30'S  
 LONG 37 36'W  
 T 3M : 26.7 C  
 T343M : 11.4 C

## STATION 31

16/12/81 12H 0 Z  
 LAT 14 45'S  
 LONG 36 47'W  
 T 3M : 26.7 C  
 T452M : 9.9 C

## STATION 33

16/12/81 18H35 Z  
 LAT 13 19'S  
 LONG 36 6'W  
 T 3M : 27.0 C  
 T421M : 7.7 C

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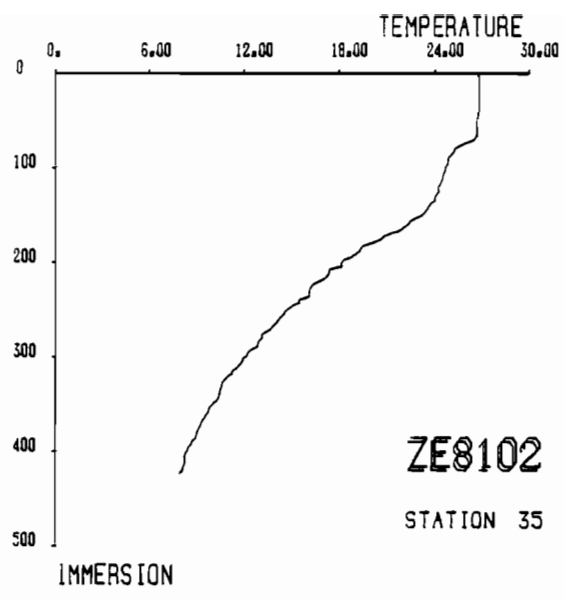
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26	34
25	42
24	59
23	93
22	99
21	104
20	109
19	116
18	125
17	138
16	154
15	185
14	231
13	275
12	318

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TEMP	PROF
26	58
25	73
24	123
23	165
22	176
21	183
20	189
19	196
18	209
17	224
16	239
15	256
14	287
13	307
12	340
11	381
10	442

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TEMP	PROF
27	6
26	76
25	83
24	122
23	141
22	157
21	165
20	172
19	178
18	186
17	194
16	209
15	229
14	249
13	273
12	291
11	312
10	335
9	356
8	401



STATION 35

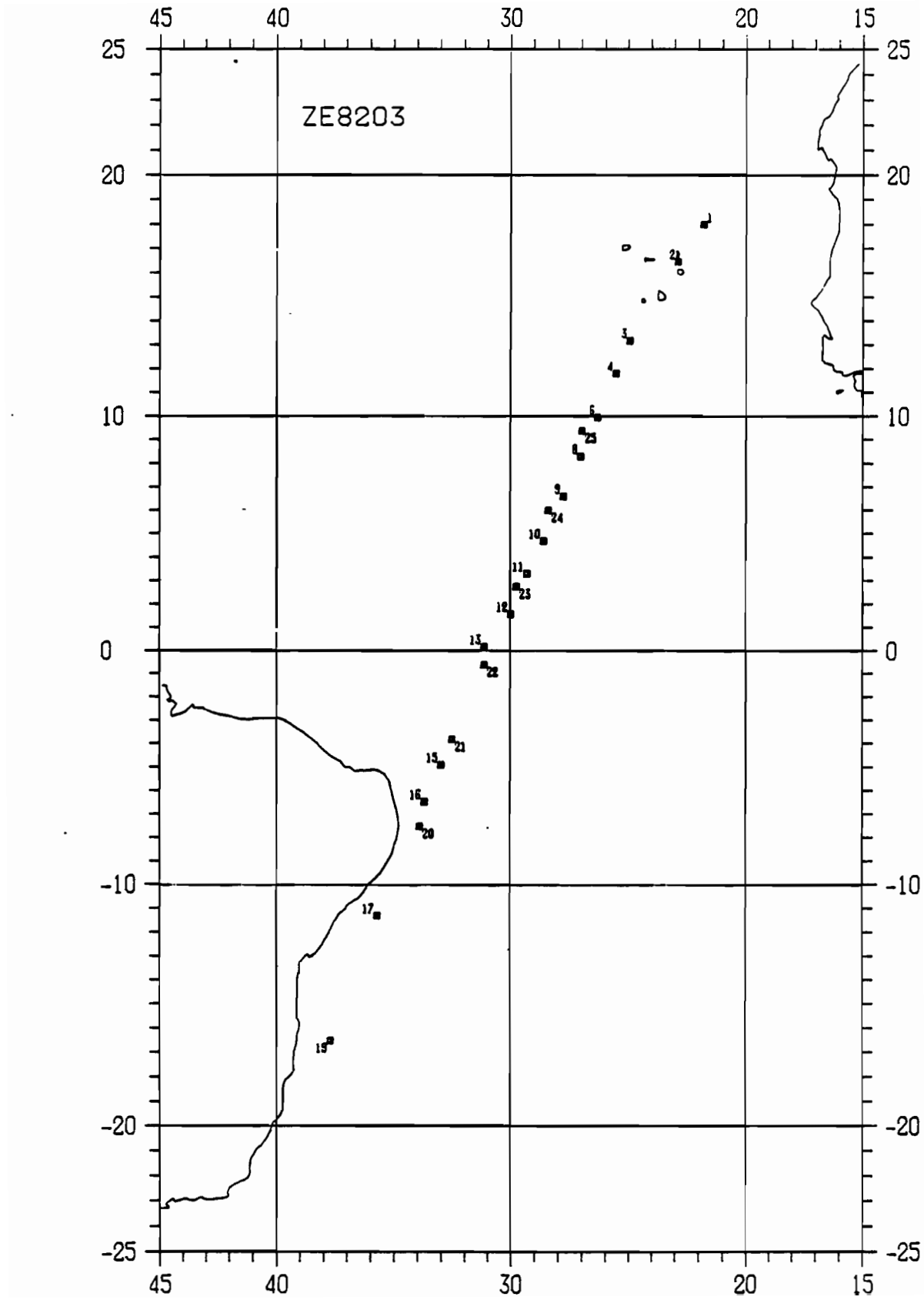
17/12/81 0H 0 Z  
LAT 11 50'S  
LONG 35 28'W  
T 3M : 26.8 C  
T424M : 7.9 C

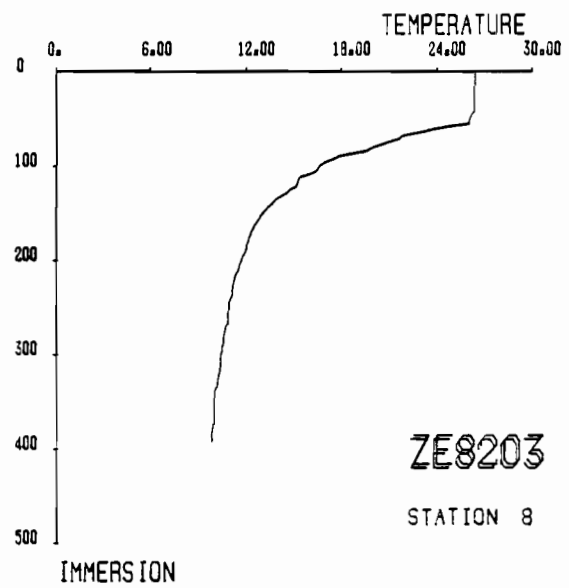
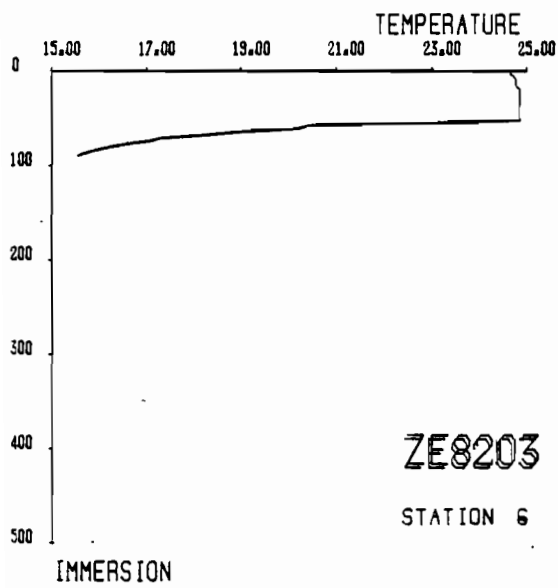
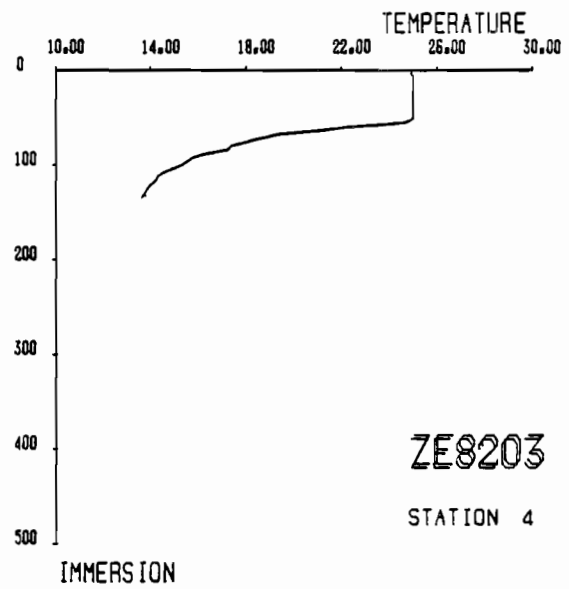
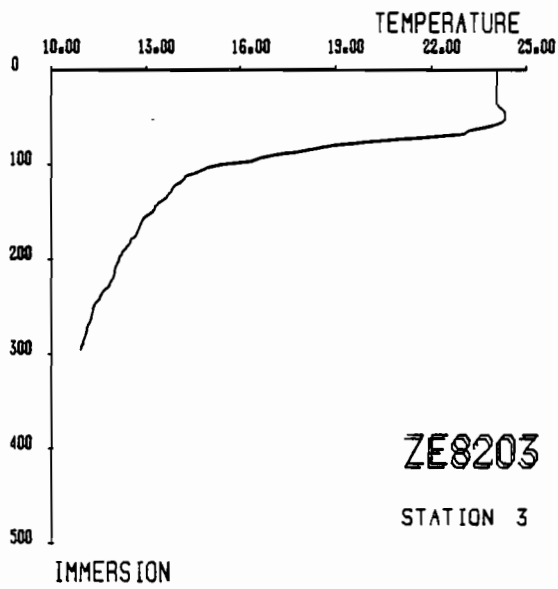
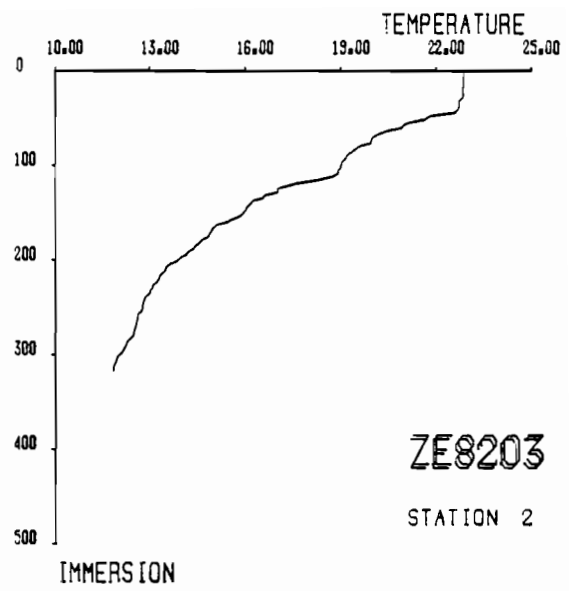
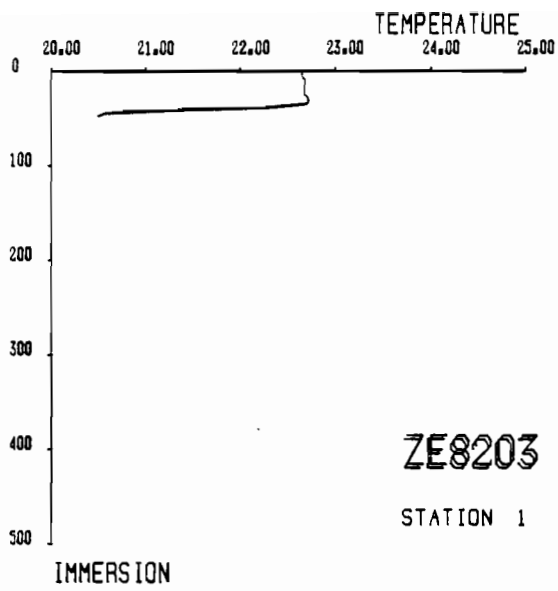
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TEMP PROF

26	74
25	86
24	130
23	151
22	164
21	171
20	180
19	192
18	205
17	218
16	237
15	246
14	264
13	282
12	301
11	320
10	351
9	380
8	421







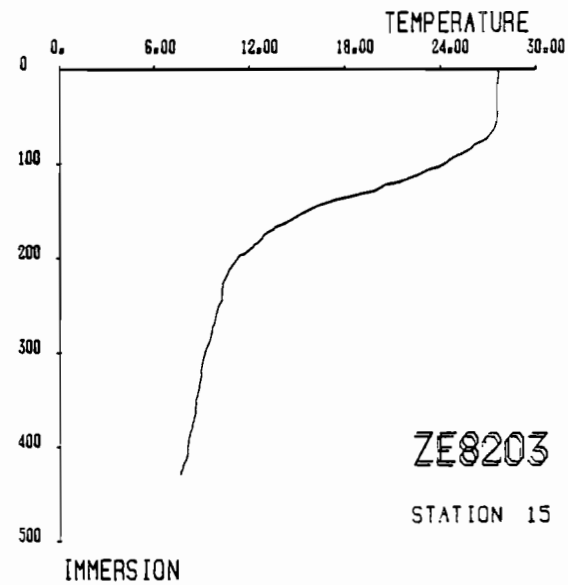
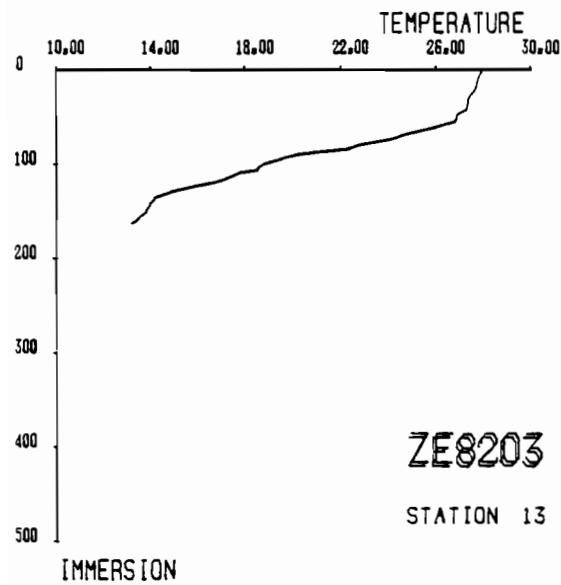
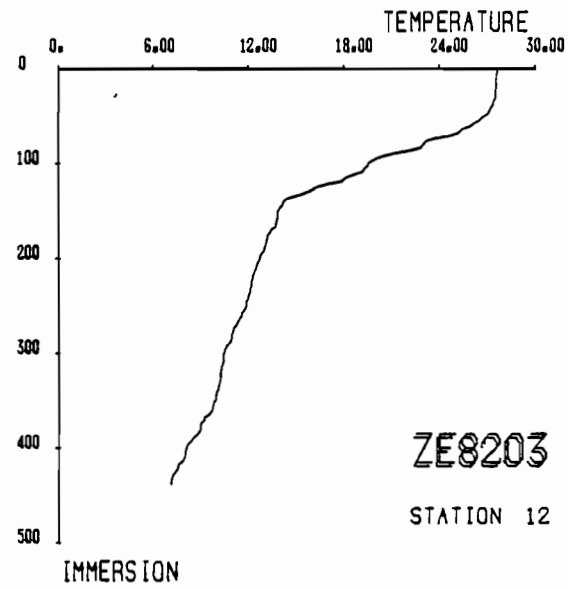
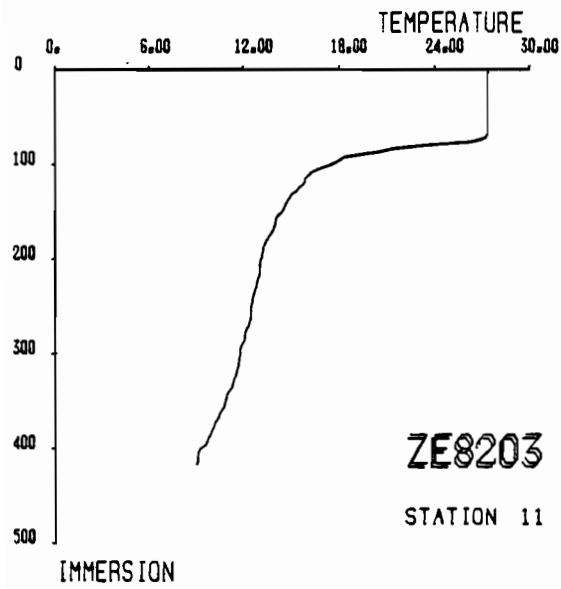
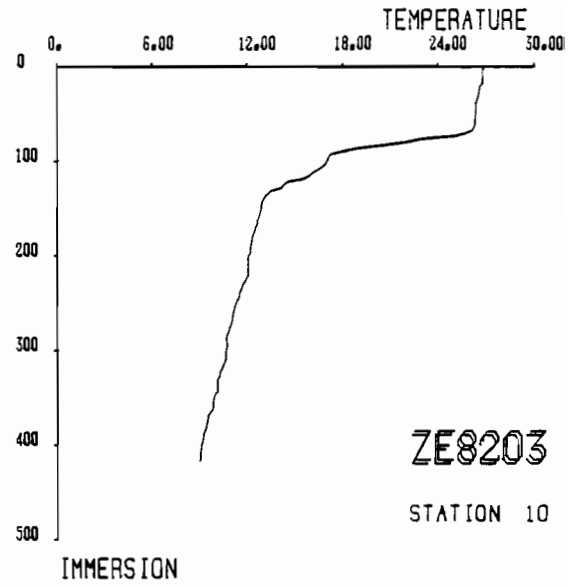
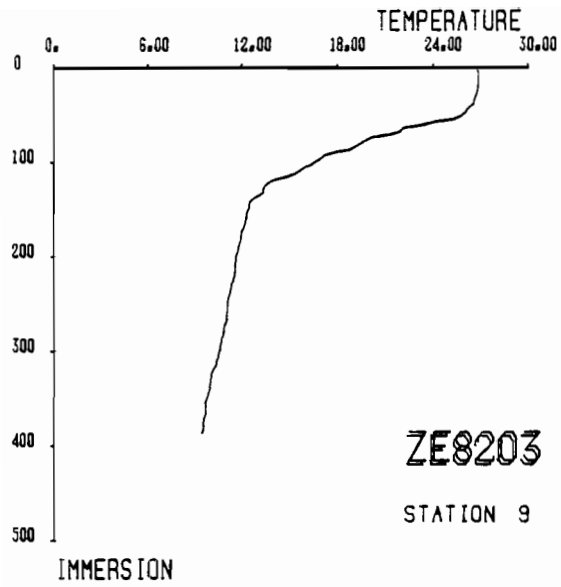


STATION 1	STATION 2	STATION 3
22/ 1/82 0H50 Z	22/ 1/82 6H18 Z	22/ 1/82 17H55 Z
LAT 18 0'N	LAT 16 28'N	LAT 13 11'N
LONG 21 49'W	LONG 22 53'W	LONG 24 57'W
T 3M : 22.6 C	T 3M : 22.9 C	T 3M : 24.1 C
T 48M : 20.5 C	T 318M : 11.9 C	T 296M : 10.9 C

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TEMP PROF	TEMP PROF	TEMP PROF
22 39	22 47	24 58
21 43	21 56	23 68
	20 70	22 71
	19 100	21 74
	18 117	20 76
	17 129	19 79
	16 146	18 85
	15 165	17 90
	14 196	16 97
	13 232	15 102
	12 301	14 119
		13 154
		12 207
		11 284

STATION 4	STATION 6	STATION 8
23/ 1/82 0H10 Z	23/ 1/82 6H40 Z	23/ 1/82 12H35 Z
LAT 11 48'N	LAT 9 56'N	LAT 8 17'N
LONG 25 33'W	LONG 26 20'W	LONG 27 3'W
T 3M : 24.9 C	T 3M : 24.7 C	T 3M : 26.4 C
T 135M : 13.6 C	T 90M : 15.3 C	T 393M : 9.7 C

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TEMP PROF	TEMP PROF	TEMP PROF
24 57	24 53	26 55
23 59	23 54	25 57
22 61	22 55	24 60
21 64	21 57	23 63
20 66	20 61	22 67
19 70	19 64	21 74
18 76	18 68	20 79
17 84	17 74	19 85
16 90	16 82	18 89
15 103		17 96
14 121		16 108
		15 123
		14 133
		13 150
		12 182
		11 238
		10 337



## STATION 9

23/ 1/82 17H55 Z  
 LAT 6 36'N  
 LONG 27 47'W  
 T 3M : 26.8 C  
 T387M : 9.4 C

## STATION 10

24/ 1/82 0H30 Z  
 LAT 4 41'N  
 LONG 28 37'W  
 T 3M : 26.8 C  
 T418M : 8.9 C

## STATION 11

24/ 1/82 6H 0 Z  
 LAT 3 17'N  
 LONG 29 18'W  
 T 3M : 27.3 C  
 T418M : 8.9 C

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TEMP	PROF
26	48
25	55
24	58
23	61
22	66
21	71
20	75
19	84
18	89
17	94
16	104
15	113
14	118
13	135
12	171
11	263
10	323

-----

TEMP	PROF
26	68
25	74
24	75
23	76
22	79
21	82
20	84
19	86
18	90
17	100
16	113
15	120
14	129
13	141
12	221
11	269
10	344
9	405

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TEMP	PROF
27	73
26	77
25	78
24	79
23	80
22	82
21	85
20	88
19	91
18	95
17	102
16	111
15	130
14	156
13	203
12	285
11	341
10	380
9	415

## STATION 12

24/ 1/82 12H 0 Z  
 LAT 1 34'N  
 LONG 30 0'W  
 T 3M : 27.7 C  
 T439M : 7.0 C

## STATION 13

24/ 1/82 18H 0 Z  
 LAT 0 10'N  
 LONG 30 70'W  
 T 3M : 27.9 C  
 T163M : 13.2 C

## STATION 15

25/ 1/82 12H 0 Z  
 LAT 4 54'S  
 LONG 33 0'W  
 T 3M : 27.7 C  
 T430M : 7.6 C

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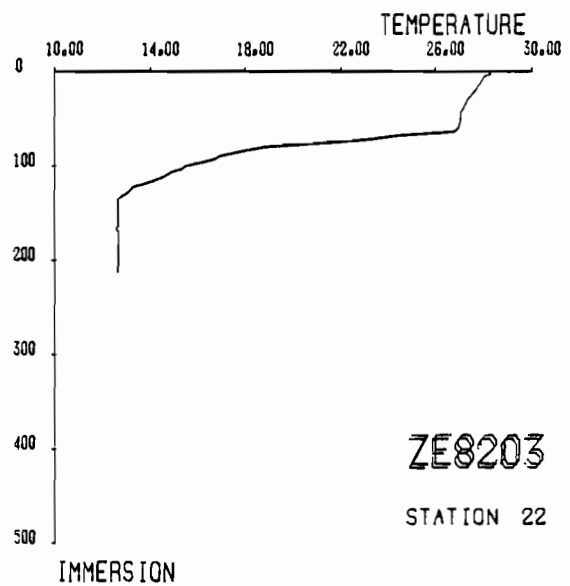
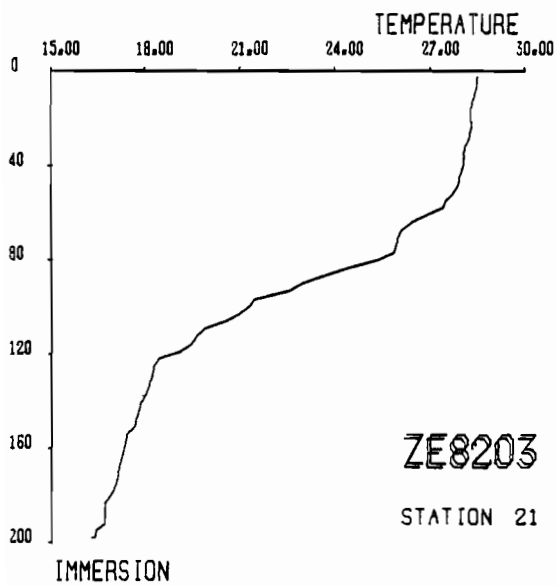
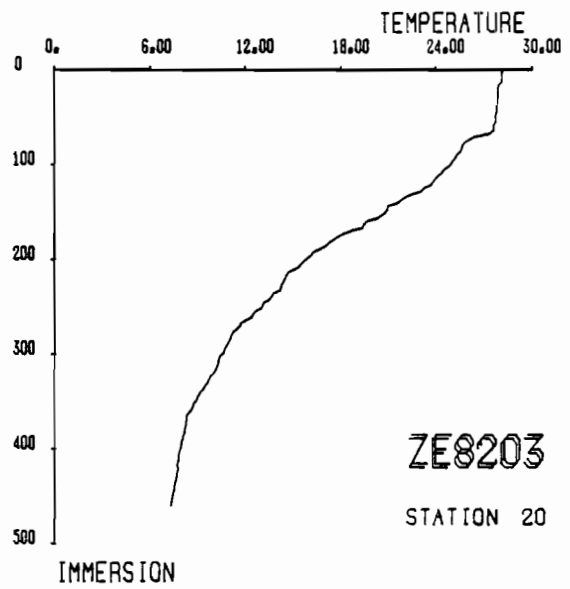
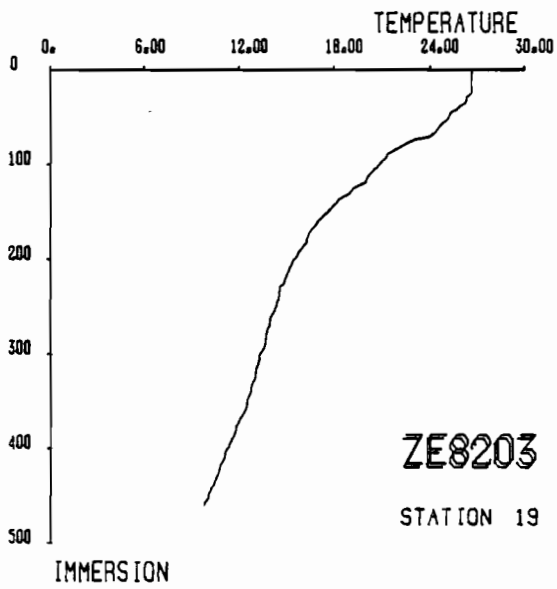
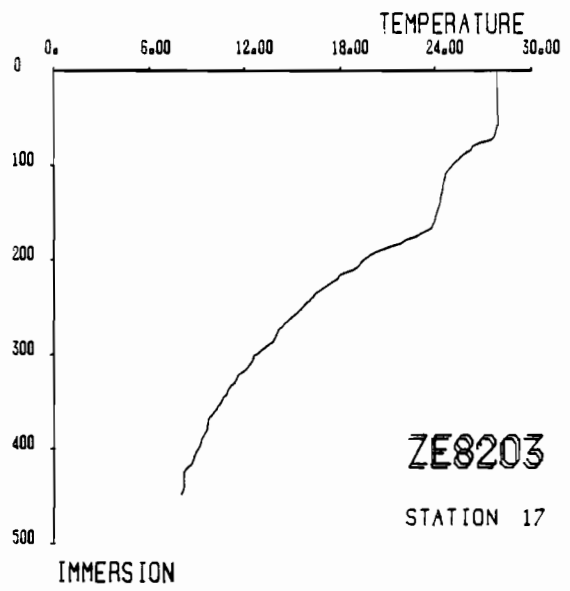
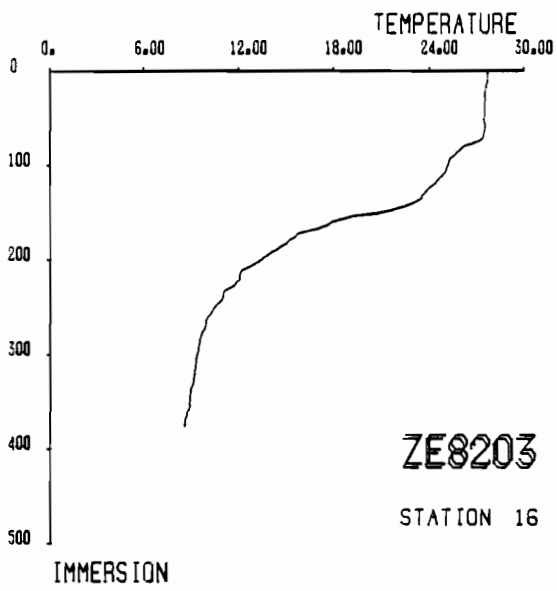
TEMP	PROF
27	48
26	60
25	68
24	73
23	79
22	86
21	90
20	95
19	109
18	116
17	122
16	127
15	134
14	146
13	190
12	239
11	276
10	338
9	373
8	399

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TEMP	PROF
27	45
26	60
25	66
24	74
23	78
22	84
21	86
20	90
19	98
18	107
17	116
16	122
15	128
14	140

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TEMP	PROF
27	71
26	82
25	92
24	101
23	107
22	115
21	120
20	127
19	131
18	135
17	140
16	146
15	155
14	164
13	174
12	190
11	204
10	250
9	307
8	409



## STATION 16

25/ 1/82 17H50 Z  
 LAT 6 28'S  
 LONG 33 43'W  
 T 3M : 27.7 C  
 T377M : 8.5 C

## STATION 17

26/ 1/82 11H56 Z  
 LAT 11 19'S  
 LONG 35 42'W  
 T 3M : 27.8 C  
 T449M : 7.9 C

## STATION 19

27/ 1/82 6H50 Z  
 LAT 16 30'S  
 LONG 37 43'W  
 T 3M : 26.6 C  
 T461M : 9.7 C

## TEMP PROF

27 75  
 26 82  
 25 107  
 24 123  
 23 139  
 22 145  
 21 149  
 20 152  
 19 155  
 18 159  
 17 166  
 16 171  
 15 182  
 14 192  
 13 204  
 12 221  
 11 237  
 10 261  
 9 334

## TEMP PROF

27 76  
 26 86  
 25 102  
 24 157  
 23 174  
 22 180  
 21 188  
 20 194  
 19 208  
 18 216  
 17 229  
 16 244  
 15 260  
 14 280  
 13 296  
 12 318  
 11 337  
 10 362  
 9 401  
 8 447

## TEMP PROF

26 37  
 25 53  
 24 69  
 23 74  
 22 83  
 21 97  
 20 116  
 19 129  
 18 142  
 17 159  
 16 187  
 15 216  
 14 261  
 13 324  
 12 369  
 11 409  
 10 448

## STATION 20

28/ 2/82 18H 0 Z  
 LAT 7 31'S  
 LONG 33 55'W  
 T 3M : 28.1 C  
 T461M : 7.3 C

## STATION 21

1/ 3/82 6H10 Z  
 LAT 3 49'S  
 LONG 32 32'W  
 T 3M : 28.5 C  
 T198M : 16.3 C

## STATION 22

1/ 3/82 17H50 Z  
 LAT 0 37'S  
 LONG 31 9'W  
 T 3M : 28.2 C  
 T214M : 12.6 C

## TEMP PROF

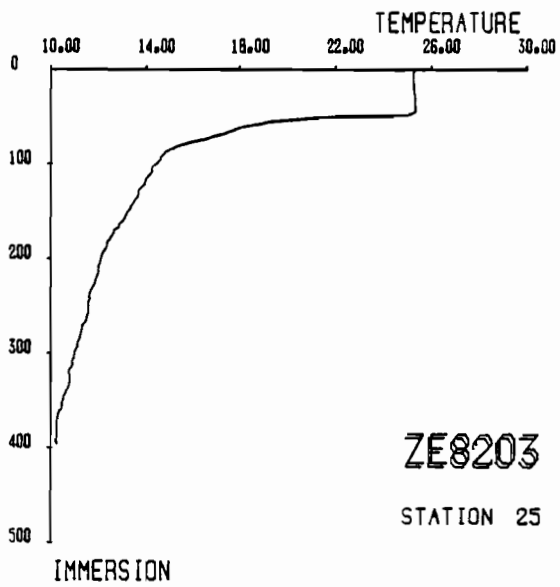
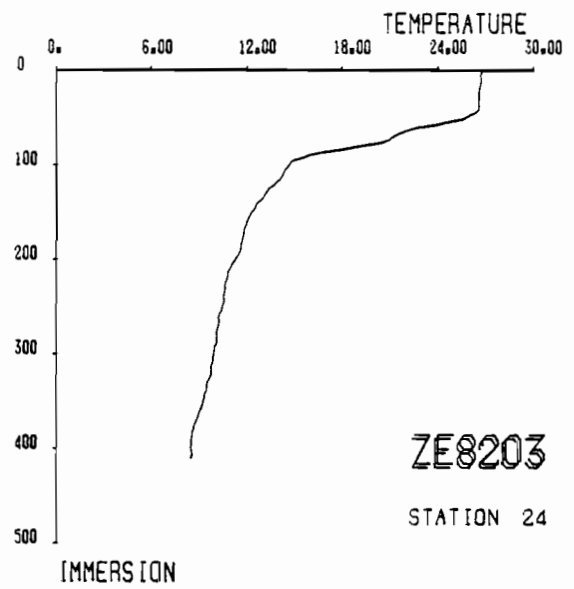
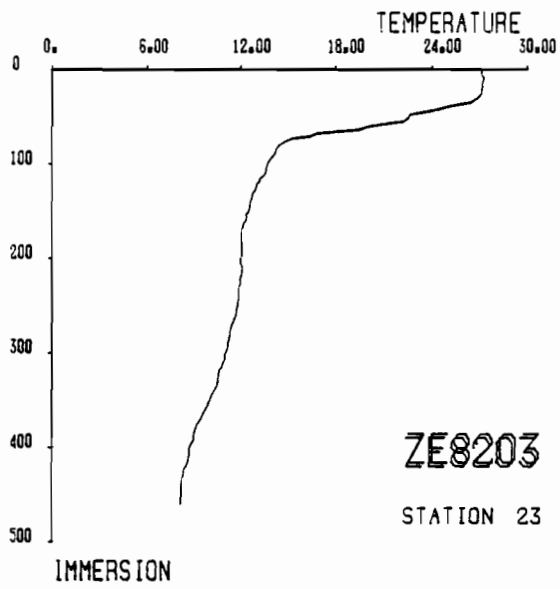
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 27 68  
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 24 115  
 23 129  
 22 135  
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 20 158  
 19 168  
 18 174  
 17 186  
 16 198  
 15 211  
 14 234  
 13 251  
 12 264  
 11 285  
 10 319  
 9 343  
 8 390

## TEMP PROF

28 41  
 27 60  
 26 69  
 25 81  
 24 85  
 23 89  
 22 94  
 21 102  
 20 108  
 19 119  
 18 137  
 17 176

## TEMP PROF

28 6  
 27 53  
 26 65  
 25 66  
 24 69  
 23 72  
 22 74  
 21 76  
 20 78  
 19 79  
 18 83  
 17 89  
 16 97  
 15 104  
 14 116  
 13 129





## STATION 23

2/ 3/82 6H 0 Z  
 LAT 2 44'N  
 LONG 29 45'W  
 T 3M : 27.1 C  
 T461M : 8.1 C

## STATION 24

2/ 3/82 17H45 Z  
 LAT 6 1'N  
 LONG 28 25'W  
 T 3M : 26.7 C  
 T411M : 8.4 C

## STATION 25

3/ 3/82 6H 0 Z  
 LAT 9 23'N  
 LONG 27 0'W  
 T 3M : 25.2 C  
 T396M : 10.2 C

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 TEMP PROF

27 28  
 26 36  
 25 39  
 24 43  
 23 46  
 22 55  
 21 58  
 20 60  
 19 64  
 18 66  
 17 67  
 16 71  
 15 74  
 14 90  
 13 120  
 12 199  
 11 301  
 10 351  
 9 386

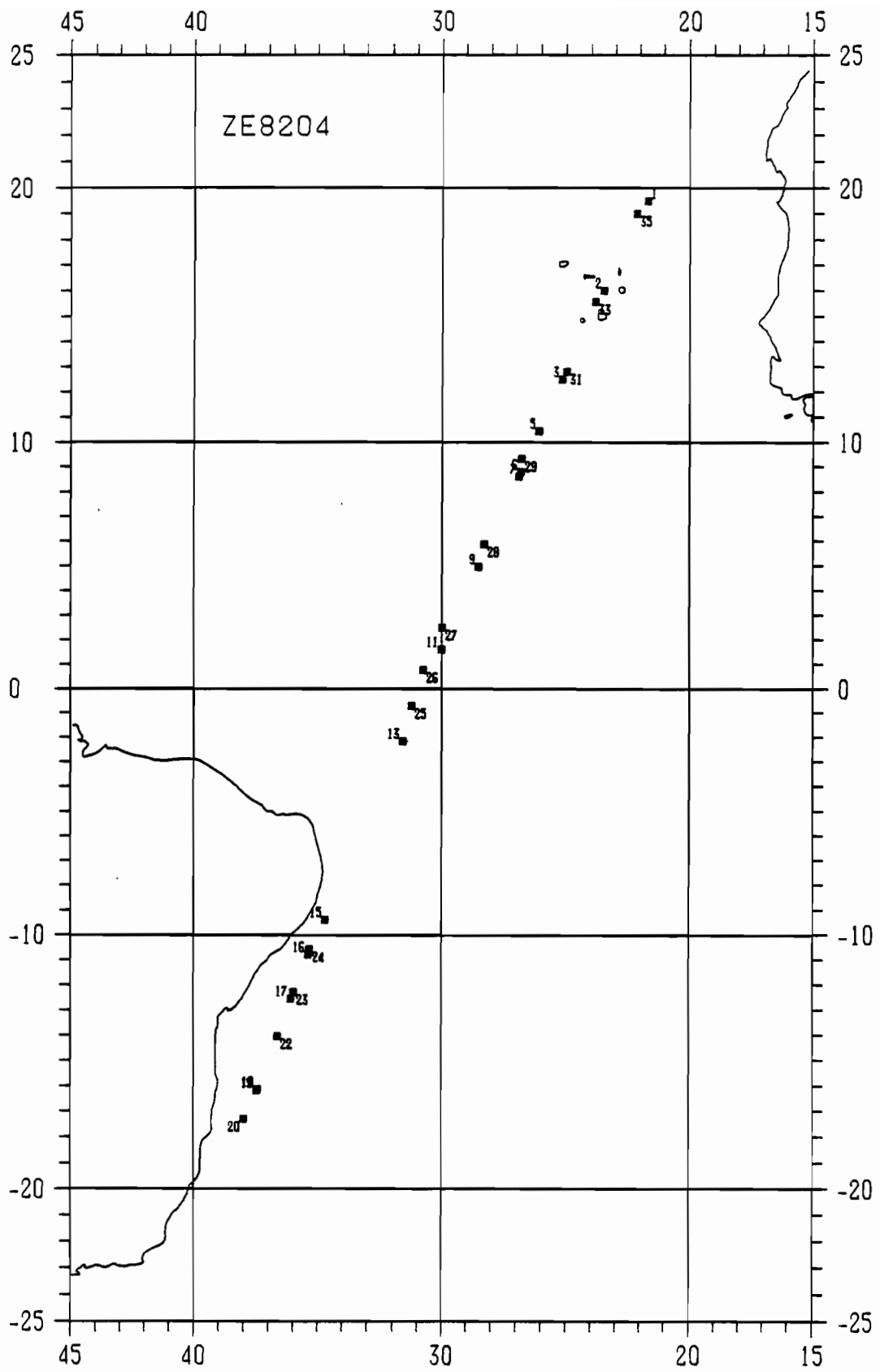
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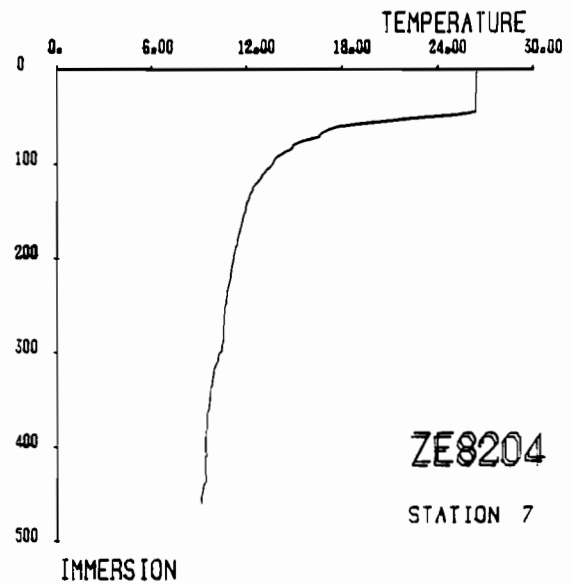
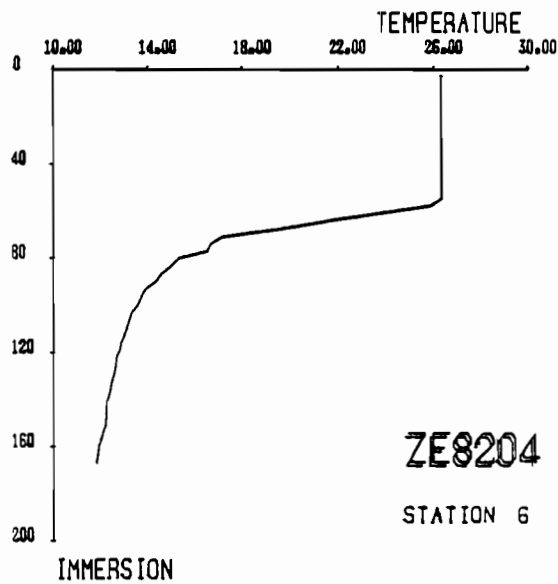
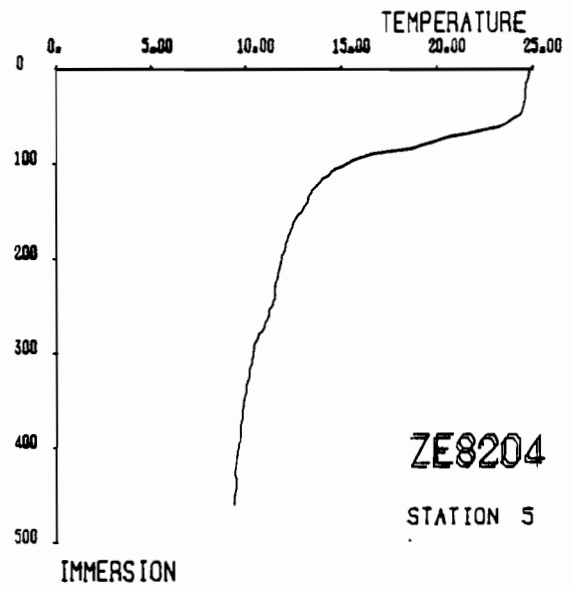
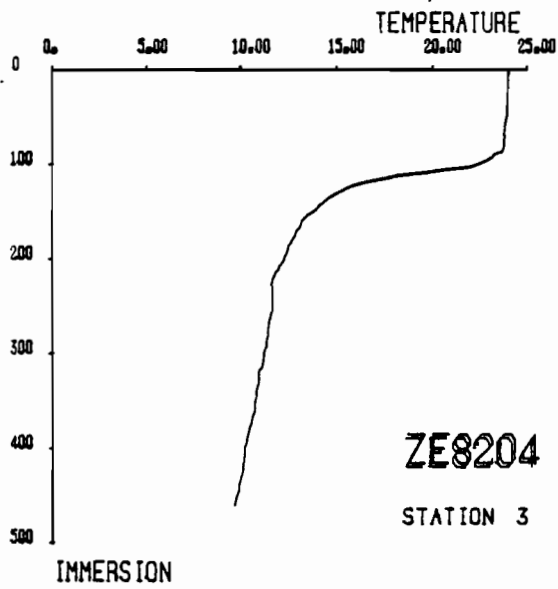
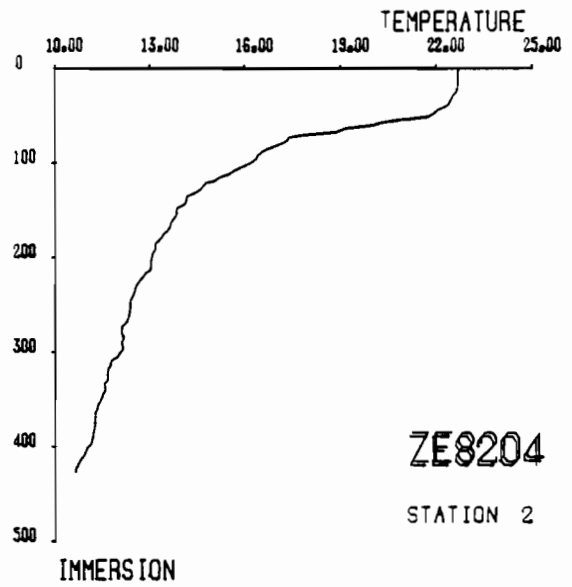
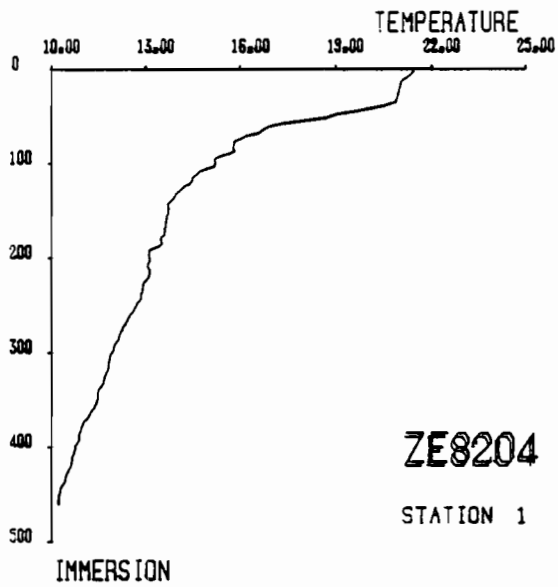
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 25 53  
 24 57  
 23 60  
 22 63  
 21 72  
 20 78  
 19 80  
 18 83  
 17 86  
 16 89  
 15 95  
 14 116  
 13 133  
 12 158  
 11 206  
 10 290  
 9 359

-----  
 TEMP PROF

25 48  
 24 48  
 23 49  
 22 50  
 21 51  
 20 53  
 19 56  
 18 61  
 17 69  
 16 76  
 15 84  
 14 113  
 13 158  
 12 206  
 11 297







STATION 1	STATION 2	STATION 3
22/ 4/82 12H 0 Z	23/ 4/82 0H 0 Z	23/ 4/82 12H 0 Z
LAT 19 30'N	LAT 16 0'N	LAT 12 30'N
LONG 21 42'W	LONG 23 30'W	LONG 25 11'W
T 3M : 21.4 C	T 3M : 22.7 C	T 3M : 24.0 C
T461M : 10.2 C	T427M : 10.6 C	T461M : 9.6 C

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TEMP	PROF
21	22
20	42
19	48
18	54
17	60
16	74
15	105
14	130
13	224
12	292
11	375

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TEMP	PROF
22	45
21	54
20	60
19	65
18	70
17	82
16	102
15	119
14	144
13	205
12	304
11	402

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TEMP	PROF
24	10
23	94
22	102
21	105
20	108
19	110
18	112
17	117
16	122
15	130
14	143
13	164
12	205
11	316
10	429

STATION 5	STATION 6	STATION 7
23/ 4/82 19H 0 Z	24/ 4/82 0H 0 Z	24/ 4/82 0H30 Z
LAT 10 26'N	LAT 8 47'N	LAT 8 36'N
LONG 26 6'W	LONG 26 50'W	LONG 26 55'W
T 3M : 24.8 C	T 3M : 26.3 C	T 3M : 26.4 C
T461M : 9.4 C	T167M : 11.8 C	T461M : 9.1 C

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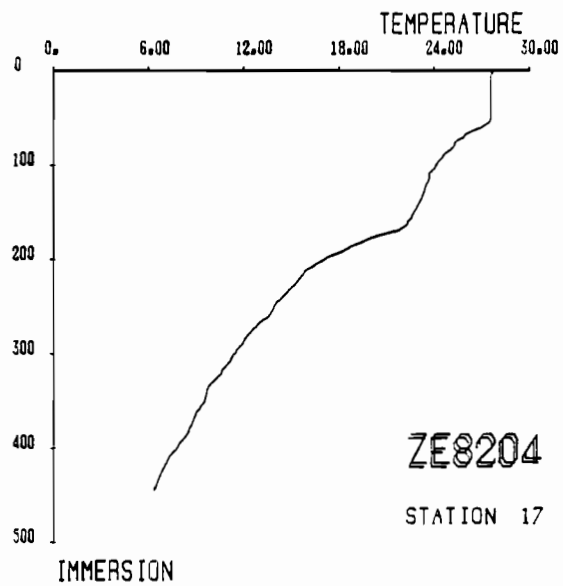
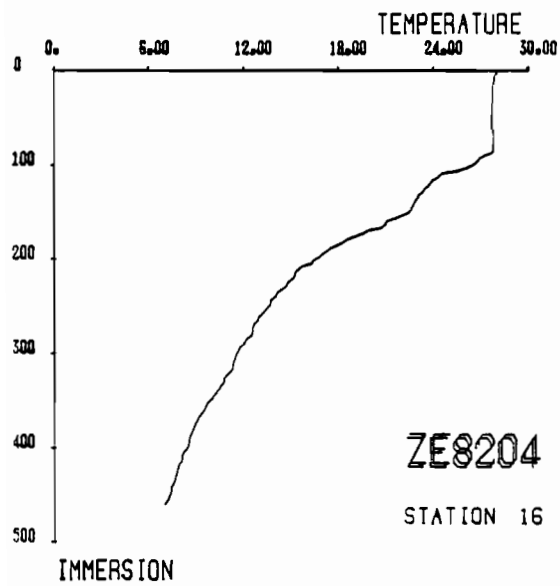
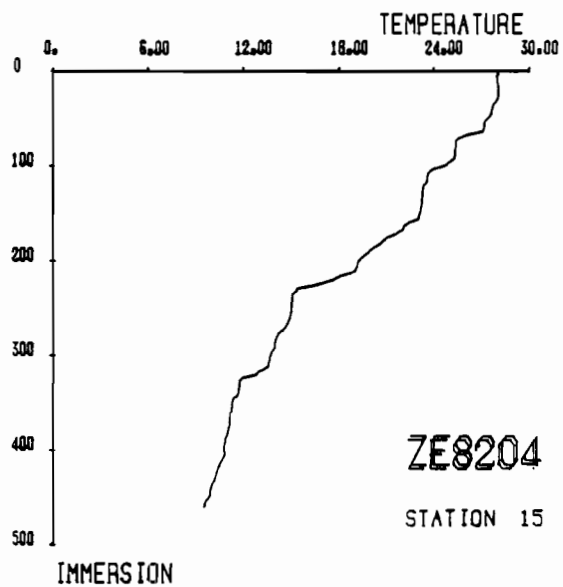
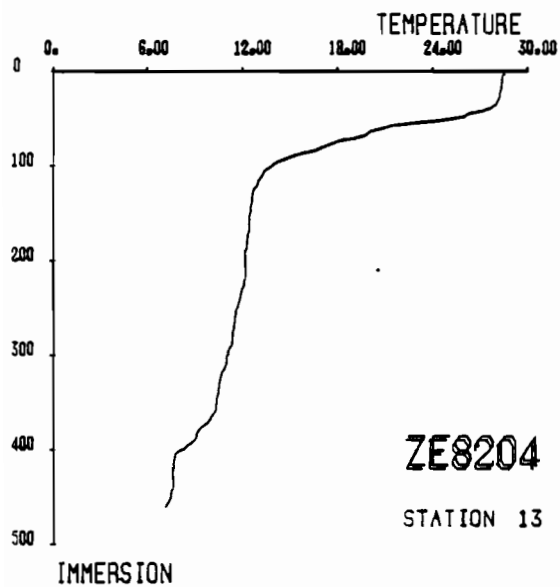
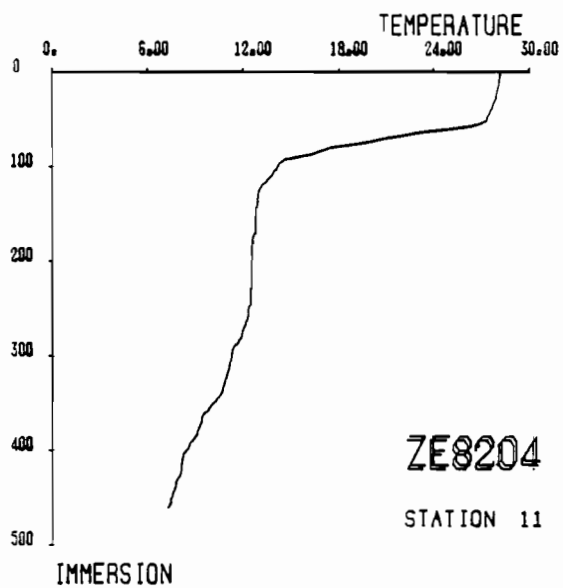
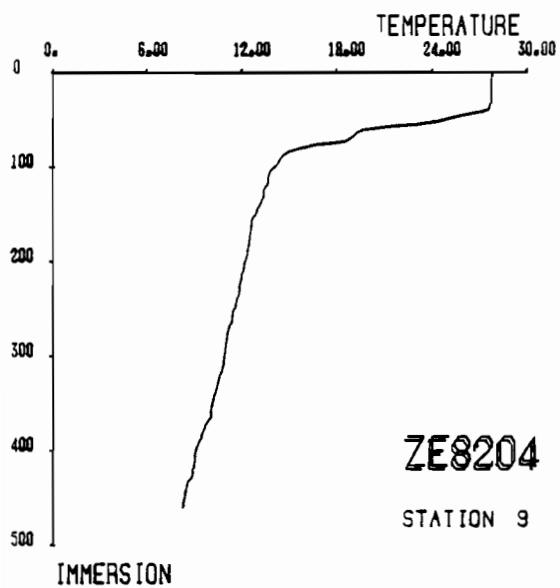
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23	61
22	66
21	69
20	75
19	81
18	85
17	88
16	93
15	102
14	115
13	146
12	192
11	268
10	335

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TEMP	PROF
26	56
25	59
24	60
23	62
22	63
21	65
20	66
19	68
18	69
17	71
16	78
15	83
14	92
13	112
12	156

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TEMP	PROF
26	46
25	48
24	49
23	51
22	52
21	54
20	56
19	58
18	60
17	64
16	74
15	79
14	91
13	111
12	141
11	211
10	312

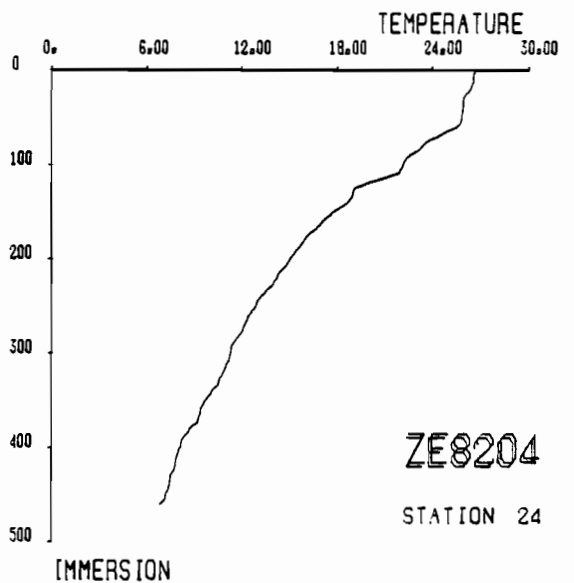
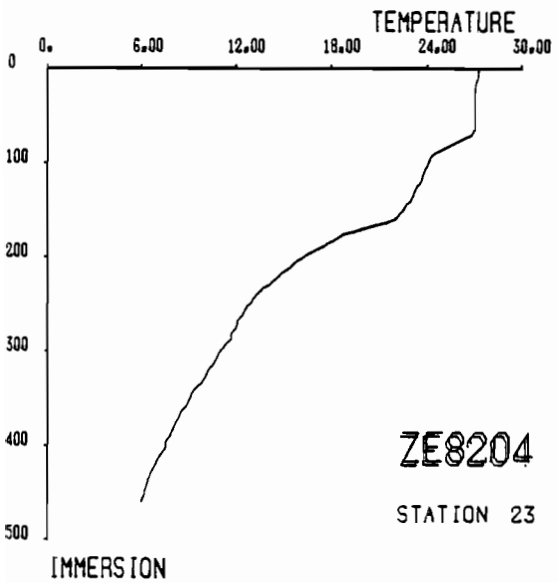
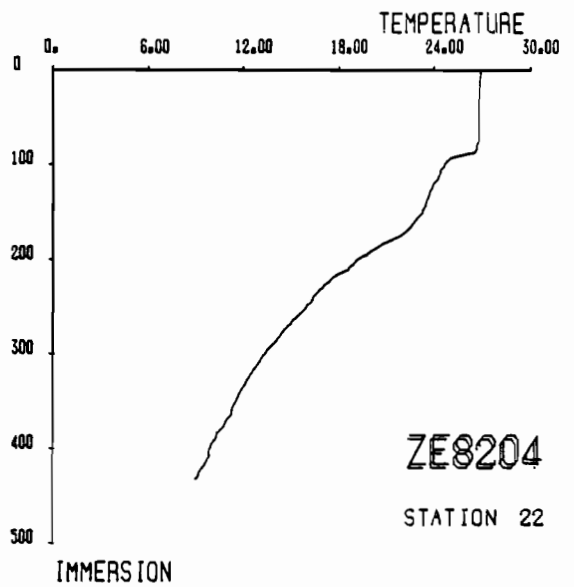
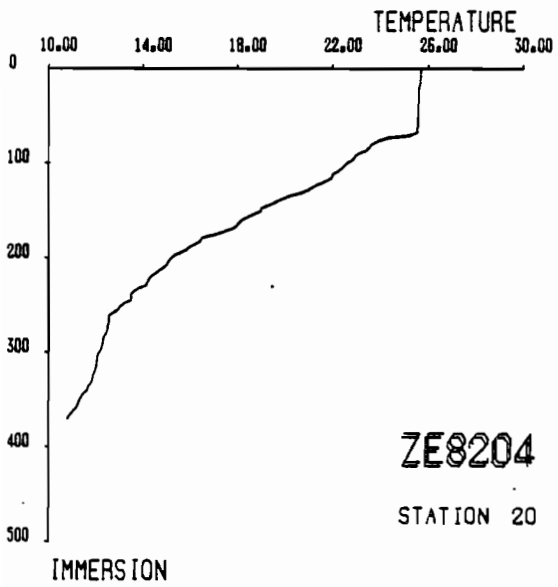
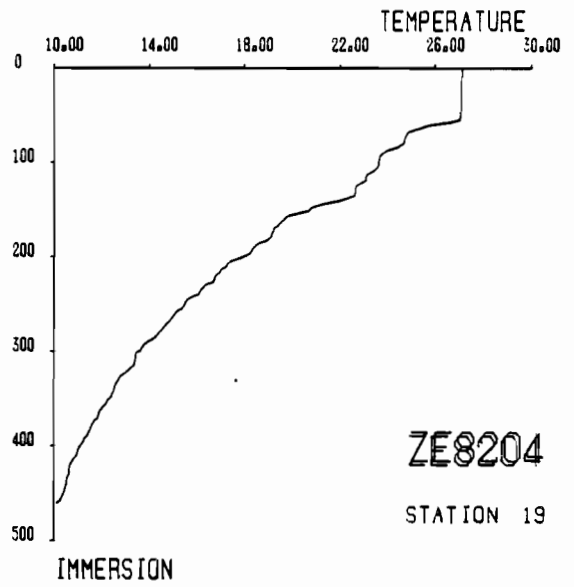
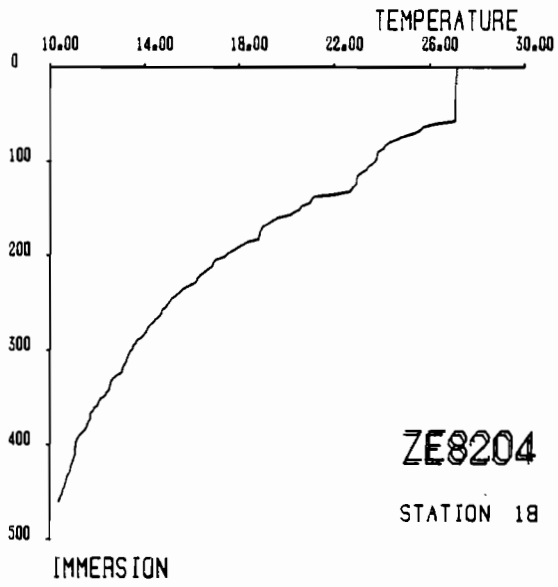


STATION 9	STATION 11	STATION 13
24/ 4/82 12H 5 Z	25/ 4/82 0H15 Z	25/ 4/82 12H15 Z
LAT 4 57'N	LAT 1 35'N	LAT 2 10'S
LONG 28 32'W	LONG 30 2'W	LONG 31 36'W
T 3M : 27.8 C	T 3M : 28.1 C	T 3M : 28.5 C
T461M : 8.2 C	T461M : 7.2 C	T461M : 7.1 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
27	42	28	18	28	34
26	45	27	54	27	42
25	49	26	58	26	47
24	52	25	61	25	50
23	54	24	62	24	52
22	56	23	64	23	54
21	58	22	67	22	56
20	60	21	70	21	59
19	68	20	74	20	64
18	74	19	76	19	71
17	76	18	78	18	74
16	79	17	82	17	80
15	83	16	88	16	85
14	100	15	91	15	91
13	142	14	104	14	98
12	212	13	125	13	114
11	282	12	271	12	227
10	357	11	317	11	300
9	404	10	351	10	364
		9	384	9	387
		8	425	8	401

STATION 15	STATION 16	STATION 17
26/ 4/82 12H 0 Z	26/ 4/82 18H 0 Z	27/ 4/82 0H 0 Z
LAT 9 24'S	LAT 10 48'S	LAT 12 34'S
LONG 34 43'W	LONG 35 25'W	LONG 36 7'W
T 3M : 28.0 C	T 3M : 27.9 C	T 3M : 27.6 C
T461M : 9.4 C	T461M : 7.0 C	T445M : 6.3 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
27	64	27	91	27	60
26	67	26	103	26	67
25	95	25	107	25	84
24	102	24	115	24	103
23	153	23	134	23	141
22	164	22	154	22	166
21	175	21	160	21	172
20	188	20	169	20	177
19	208	19	176	19	184
18	216	18	184	18	192
17	223	17	193	17	200
16	227	16	206	16	210
15	243	15	221	15	229
14	282	14	239	14	246
13	316	13	260	13	266
12	323	12	290	12	283
11	376	11	321	11	309
10	434	10	347	10	329
		9	372	9	360
		8	415	8	392
		7	460	7	416





## STATION 18

28/ 4/82 0H 0 Z  
 LAT 16 9'S  
 LONG 37 27'W  
 T 0M : 27.2 C  
 T461M : 10.3 C

## STATION 19

28/ 4/82 0H15 Z  
 LAT 16 12'S  
 LONG 37 30'W  
 T 3M : 27.1 C  
 T461M : 10.1 C

## STATION 20

20/ 5/82 24H 0 Z  
 LAT 17 17'S  
 LONG 38 0'W  
 T 3M : 25.7 C  
 T371M : 10.8 C

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TEMP	PROF
27	58
26	62
25	73
24	87
23	115
22	135
21	142
20	157
19	170
18	190
17	205
16	231
15	250
14	282
13	324
12	359
11	415

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TEMP	PROF
27	55
26	60
25	66
24	86
23	119
22	140
21	145
20	155
19	180
18	199
17	214
16	240
15	262
14	288
13	321
12	358
11	403

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TEMP	PROF
25	71
24	76
23	92
22	112
21	128
20	136
19	148
18	165
17	176
16	188
15	206
14	231
13	253
12	315
11	363

## STATION 22

21/ 5/82 12H10 Z  
 LAT 14 2'S  
 LONG 36 40'W  
 T 3M : 26.8 C  
 T433M : 8.9 C

## STATION 23

21/ 5/82 18H 0 Z  
 LAT 12 17'S  
 LONG 36 0'W  
 T 3M : 27.3 C  
 T461M : 6.0 C

## STATION 24

21/ 5/82 24H 0 Z  
 LAT 10 35'S  
 LONG 35 21'W  
 T 3M : 26.5 C  
 T461M : 6.8 C

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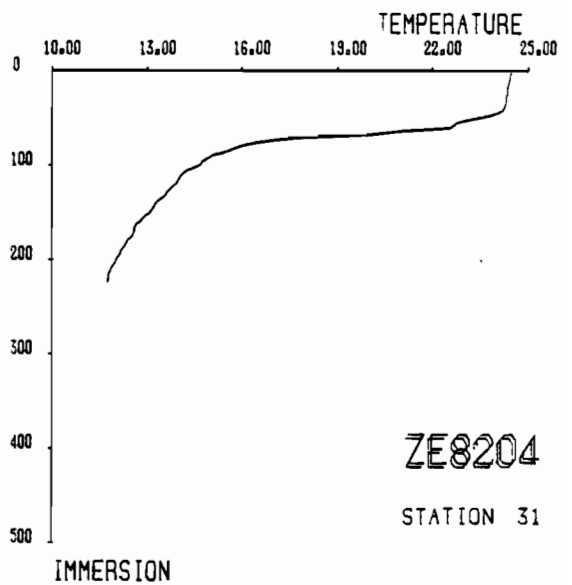
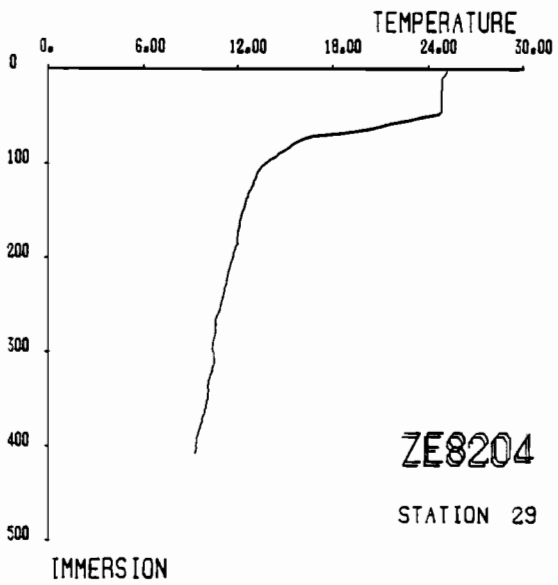
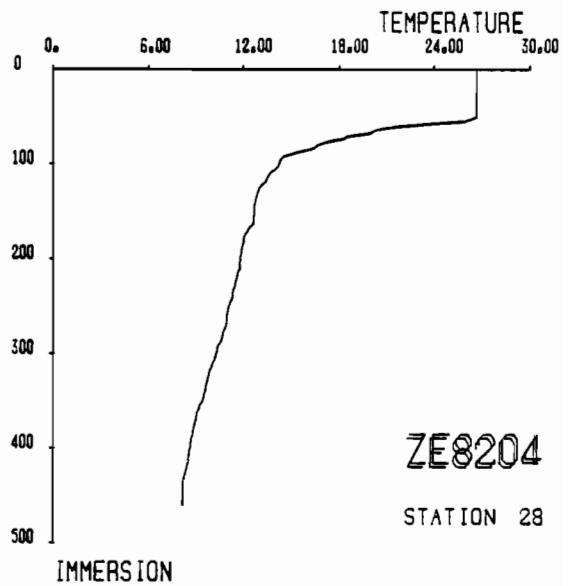
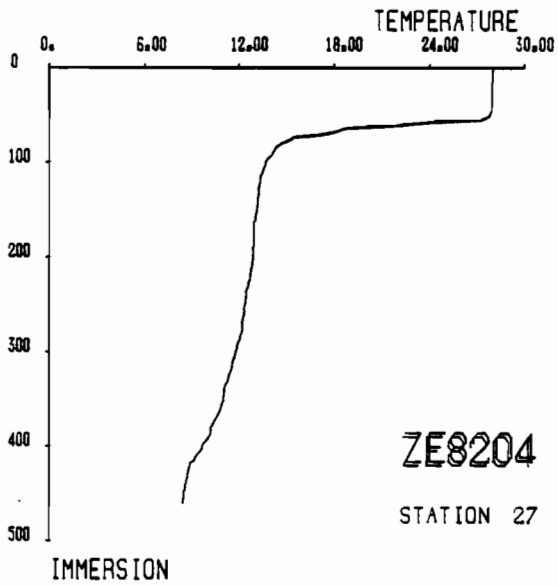
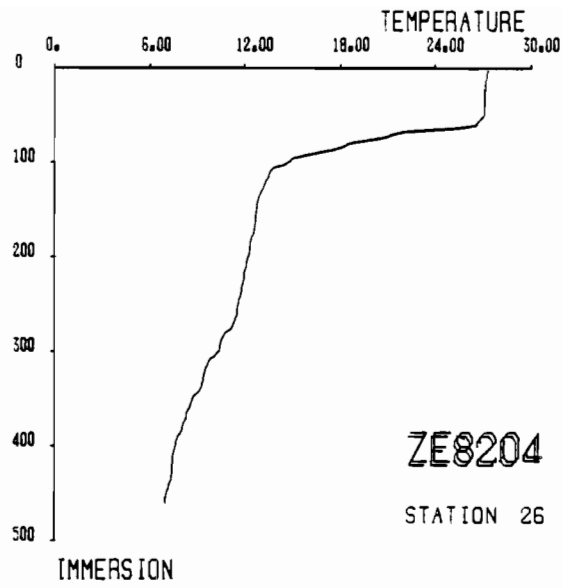
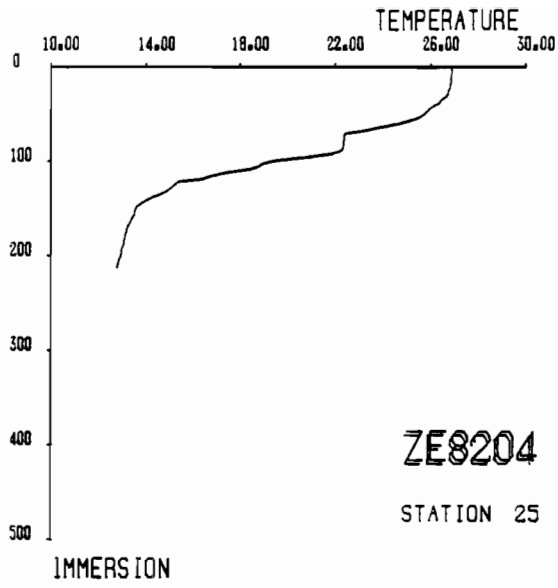
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25	93
24	119
23	155
22	173
21	181
20	191
19	201
18	214
17	228
16	248
15	266
14	286
13	308
12	334
11	367
10	394
9	431

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TEMP	PROF
27	65
26	77
25	85
24	102
23	138
22	159
21	164
20	170
19	174
18	183
17	192
16	202
15	215
14	230
13	246
12	274
11	298
10	327
9	351
8	381
7	413
6	459

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TEMP	PROF
26	26
25	63
24	72
23	85
22	103
21	113
20	118
19	125
18	146
17	160
16	176
15	200
14	223
13	243
12	276
11	312
10	343
9	375
8	401
7	457



## STATION 25

23/ 5/82 12H 0 Z  
 LAT 0 43'S  
 LONG 31 15'W  
 T 3M : 26.9 C  
 T461M : 12.8 C

## STATION 26

23/ 5/82 18H 0 Z  
 LAT 0 46'N  
 LONG 30 47'W  
 T 3M : 27.3 C  
 T461M : 6.9 C

## STATION 27

24/ 5/82 0H 0 Z  
 LAT 2 29'N  
 LONG 30 0'W  
 T 3M : 28.0 C  
 T461M : 8.4 C

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 TEMP PROF

26	44
25	58
24	63
23	68
22	91
21	95
20	98
19	102
18	110
17	114
16	120
15	128
14	141
13	190

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 TEMP PROF

27	51
26	62
25	64
24	65
23	66
22	68
21	72
20	76
19	78
18	84
17	88
16	92
15	95
14	105
13	132
12	215
11	278
10	306
9	344
8	384
7	452

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 TEMP PROF

27	55
26	56
25	56
24	57
23	59
22	60
21	61
20	62
19	63
18	68
17	71
16	72
15	77
14	93
13	159
12	288
11	350
10	392
9	416

## STATION 28

24/ 5/82 12H 0 Z  
 LAT 5 53'N  
 LONG 28 18'W  
 T 3M : 26.7 C  
 T461M : 8.2 C

## STATION 29

24/ 5/82 24H 0 Z  
 LAT 9 20'N  
 LONG 26 48'W  
 T 3M : 25.2 C  
 T408M : 9.2 C

## STATION 31

25/ 5/82 12H45 Z  
 LAT 12 48'N  
 LONG 25 0'W  
 T 3M : 24.4 C  
 T224M : 11.7 C

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 TEMP PROF

26	54
25	56
24	57
23	59
22	60
21	62
20	66
19	69
18	74
17	78
16	85
15	90
14	106
13	125
12	180
11	258
10	313
9	368

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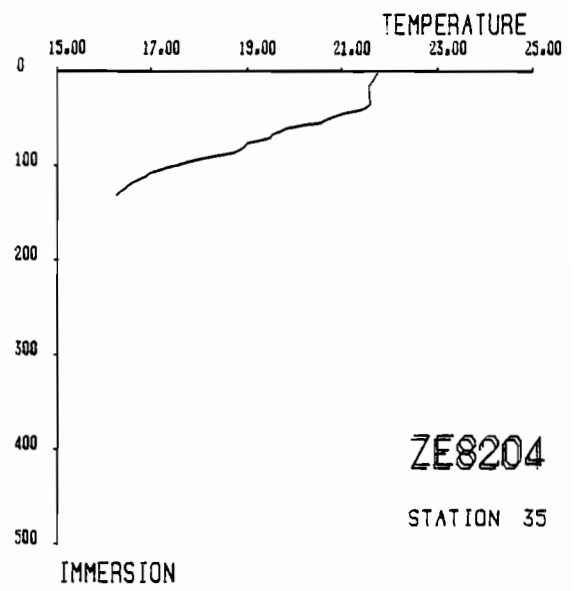
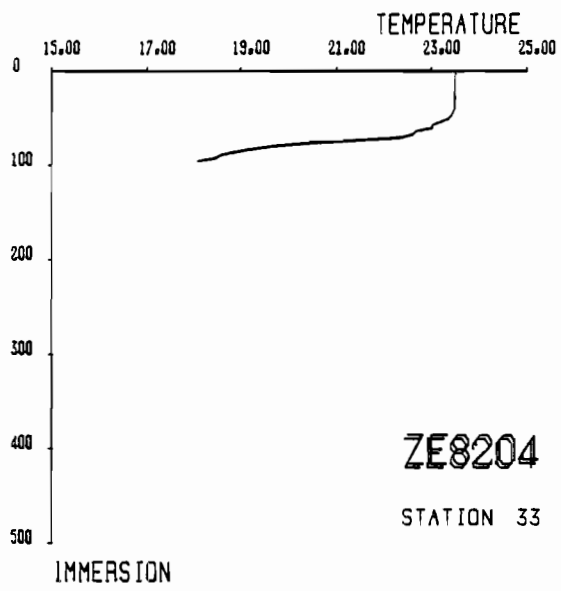
 TEMP PROF

25	7
24	50
23	53
22	56
21	61
20	64
19	67
18	69
17	70
16	75
15	85
14	96
13	118
12	176
11	246
10	355

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 TEMP PROF

24	45
23	53
22	62
21	64
20	67
19	69
18	70
17	74
16	79
15	91
14	113
13	152
12	202



STATION 33

26/ 5/82 0H 0 Z  
LAT 15 35'N  
LONG 23 52'W  
T 3M : 23.5 C  
T 96M : 18.1 C

STATION 35

27/ 5/82 13H 0 Z  
LAT 19 0'N  
LONG 22 10'W  
T 3M : 21.7 C  
T132M : 16.2 C

-----  
TEMP PROF

23 61  
22 72  
21 75  
20 78  
19 85

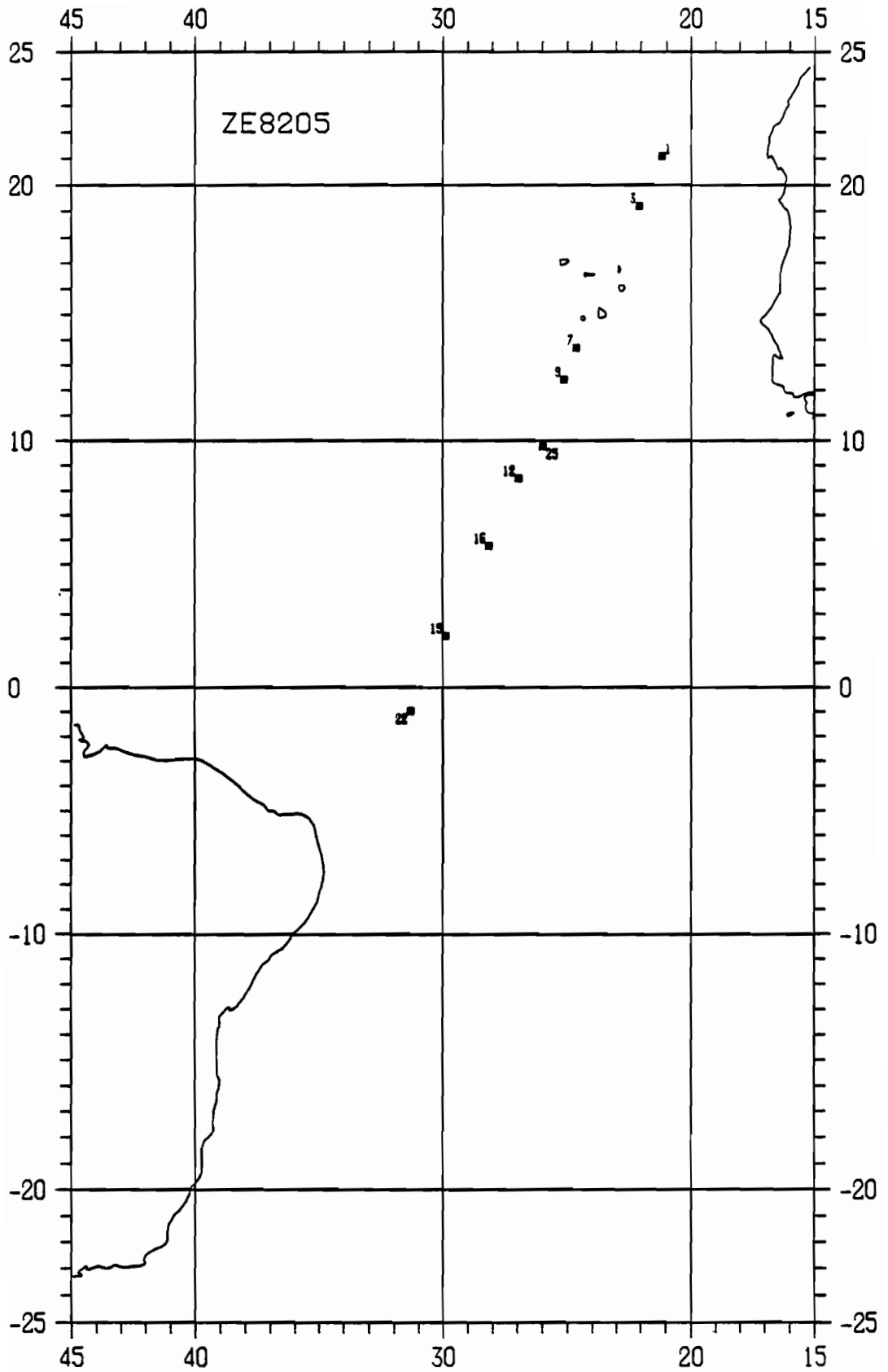
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TEMP PROF

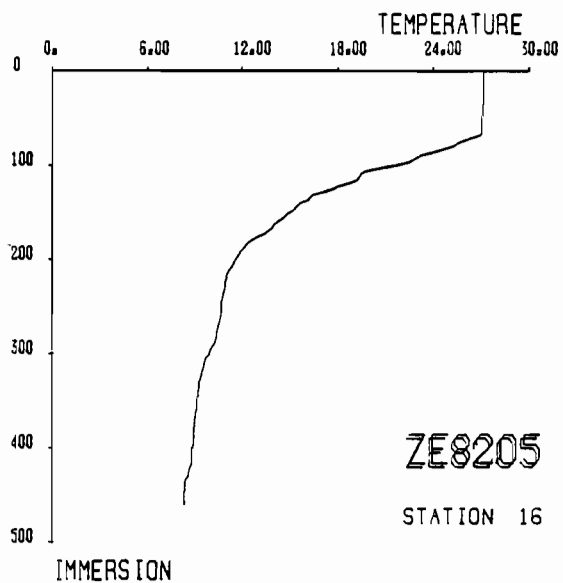
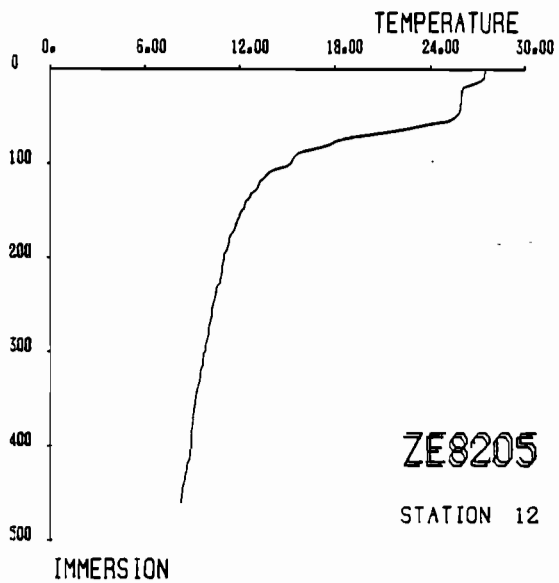
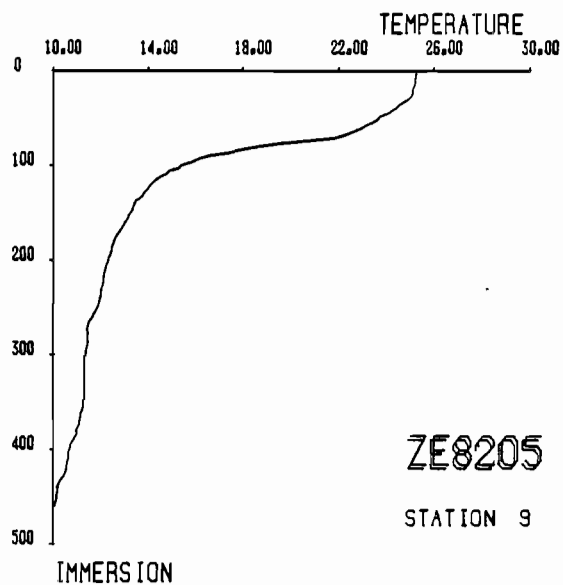
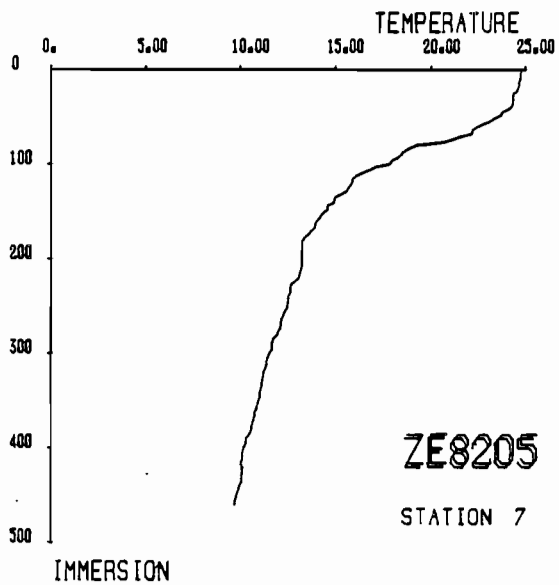
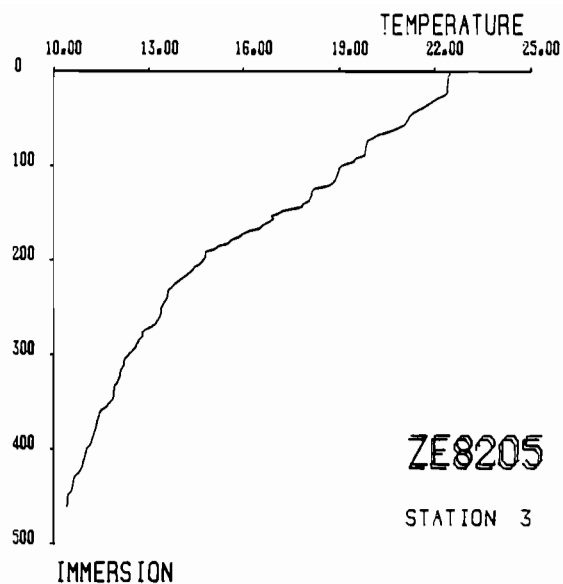
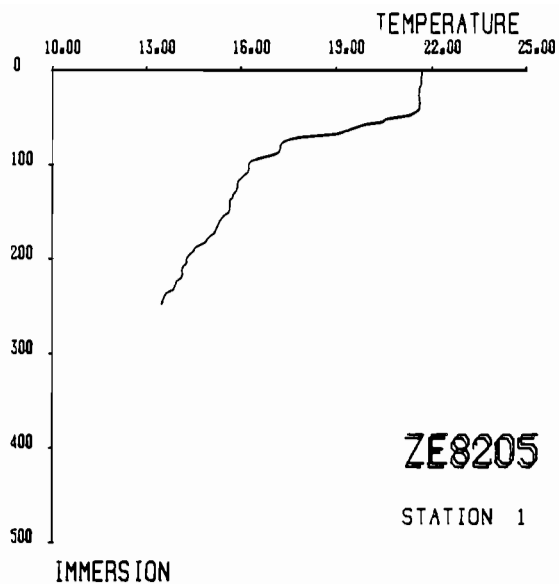
21 45  
20 59  
19 76  
18 93  
17 108

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*
*
*
*          -----
*   DESCRIPTIF DE LA CROISIERE NO.   . ZE8205 .
*          -----
*
*
*   DATE DEBUT DE CROISIERE           DATE FIN DE CROISIERE
*
*       16/ 6/82                         26/ 7/82
*
*
*   LATITUDE   MINIMUM                 LATITUDE   MAXIMUM
*
*       0 57 S                             21  6 N
*
*
*   LONGITUDE  MINIMUM                 LONGITUDE  MAXIMUM
*
*       21 12 W                             31 20 W
*
*
*   NOMBRE DE STATIONS                 +GD. NO. DE STATION
*
*           9                             25
*
*
*   NB. PARAM. MESURES
*           2
*
*
*   CODES DES PARAMETRES (CODE BNDO)
*
*   1   3
*
*
*****

```







STATION 1  
 16/ 6/82 18H 0 Z  
 LAT 21 6'N  
 LONG 21 12'W  
 T 3M : 21.7 C  
 T461M : 13.5 C

STATION 3  
 17/ 6/82 0H 5 Z  
 LAT 19 12'N  
 LONG 22 5'W  
 T 3M : 22.5 C  
 T461M : 10.4 C

STATION 7  
 17/ 6/82 19H 0 Z  
 LAT 13 41'N  
 LONG 24 40'E  
 T 0H : 24.8 C  
 T461M : 9.7 C

-----  
 TEMP PROF  
 21 49  
 20 57  
 19 67  
 18 70  
 17 90  
 16 114  
 15 176  
 14 222

-----  
 TEMP PROF  
 22 30  
 21 57  
 20 71  
 19 101  
 18 138  
 17 151  
 16 172  
 15 189  
 14 219  
 13 271  
 12 329  
 11 406

-----  
 TEMP PROF  
 24 42  
 23 55  
 22 68  
 21 74  
 20 78  
 19 81  
 18 96  
 17 104  
 16 114  
 15 134  
 14 159  
 13 221  
 12 274  
 11 339  
 10 436

STATION 9  
 18/ 6/82 0H15 Z  
 LAT 12 25'N  
 LONG 25 10'W  
 T 3M : 25.2 C  
 T461M : 10.0 C

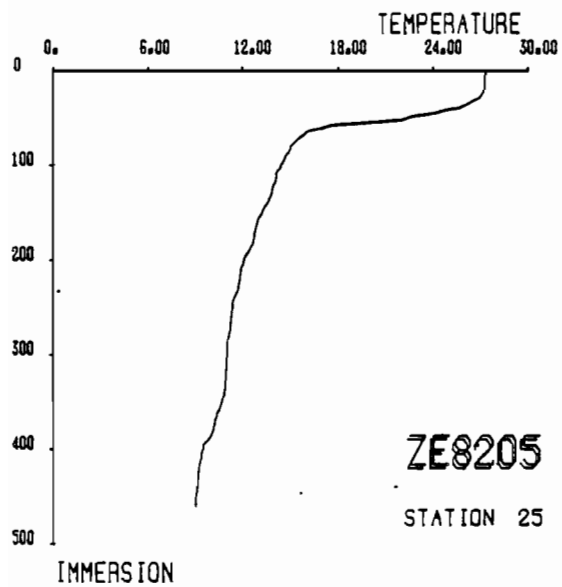
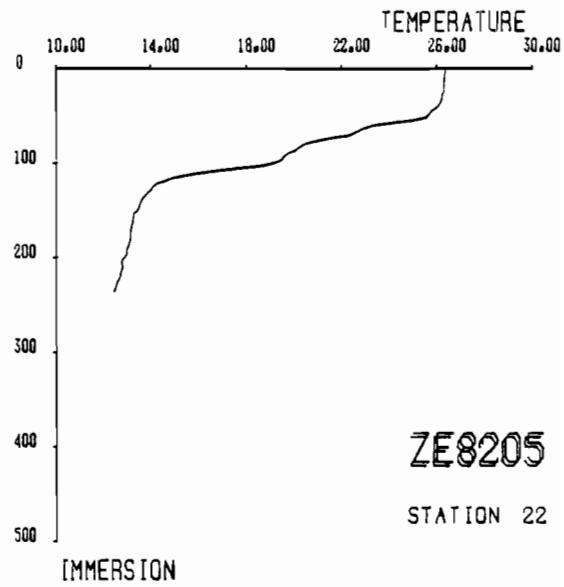
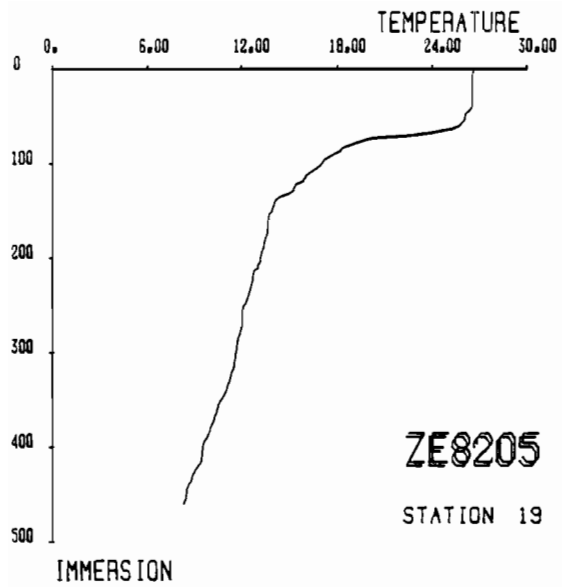
STATION 12  
 18/ 6/82 15H 8 Z  
 LAT 8 29'N  
 LONG 26 57'W  
 T 3M : 27.5 C  
 T461M : 8.2 C

STATION 16  
 19/ 6/82 1H 6 Z  
 LAT 5 45'N  
 LONG 28 10'W  
 T 3M : 27.2 C  
 T461M : 8.3 C

-----  
 TEMP PROF  
 25 26  
 24 45  
 23 59  
 22 69  
 21 73  
 20 75  
 19 78  
 18 83  
 17 88  
 16 94  
 15 104  
 14 122  
 13 161  
 12 236  
 11 378

-----  
 TEMP PROF  
 27 13  
 26 21  
 25 55  
 24 58  
 23 61  
 22 64  
 21 67  
 20 69  
 19 72  
 18 76  
 17 83  
 16 86  
 15 101  
 14 107  
 13 127  
 12 153  
 11 200  
 10 283  
 9 374

-----  
 TEMP PROF  
 27 68  
 26 74  
 25 81  
 24 85  
 23 91  
 22 98  
 21 101  
 20 105  
 19 116  
 18 121  
 17 129  
 16 138  
 15 149  
 14 162  
 13 175  
 12 189  
 11 219  
 10 296  
 9 363



## STATION 19

19/ 6/82 15H 0 Z  
 LAT 2 5'N  
 LONG 29 55'W  
 T 3M : 26.6 C  
 T461M : 8.2 C

## STATION 22

20/ 6/82 2H 0 Z  
 LAT 0 57'S  
 LONG 31 20'W  
 T 3M : 26.3 C  
 T236M : 12.4 C

## STATION 25

26/ 7/82 1H30 Z  
 LAT 9 46'N  
 LONG 26 0'W  
 T 3M : 27.3 C  
 T461M : 8.9 C

-----  
 TEMP PROF

26 55  
 25 64  
 24 67  
 23 69  
 22 71  
 21 72  
 20 74  
 19 79  
 18 88  
 17 99  
 16 112  
 15 131  
 14 144  
 13 210  
 12 269  
 11 339  
 10 378  
 9 423

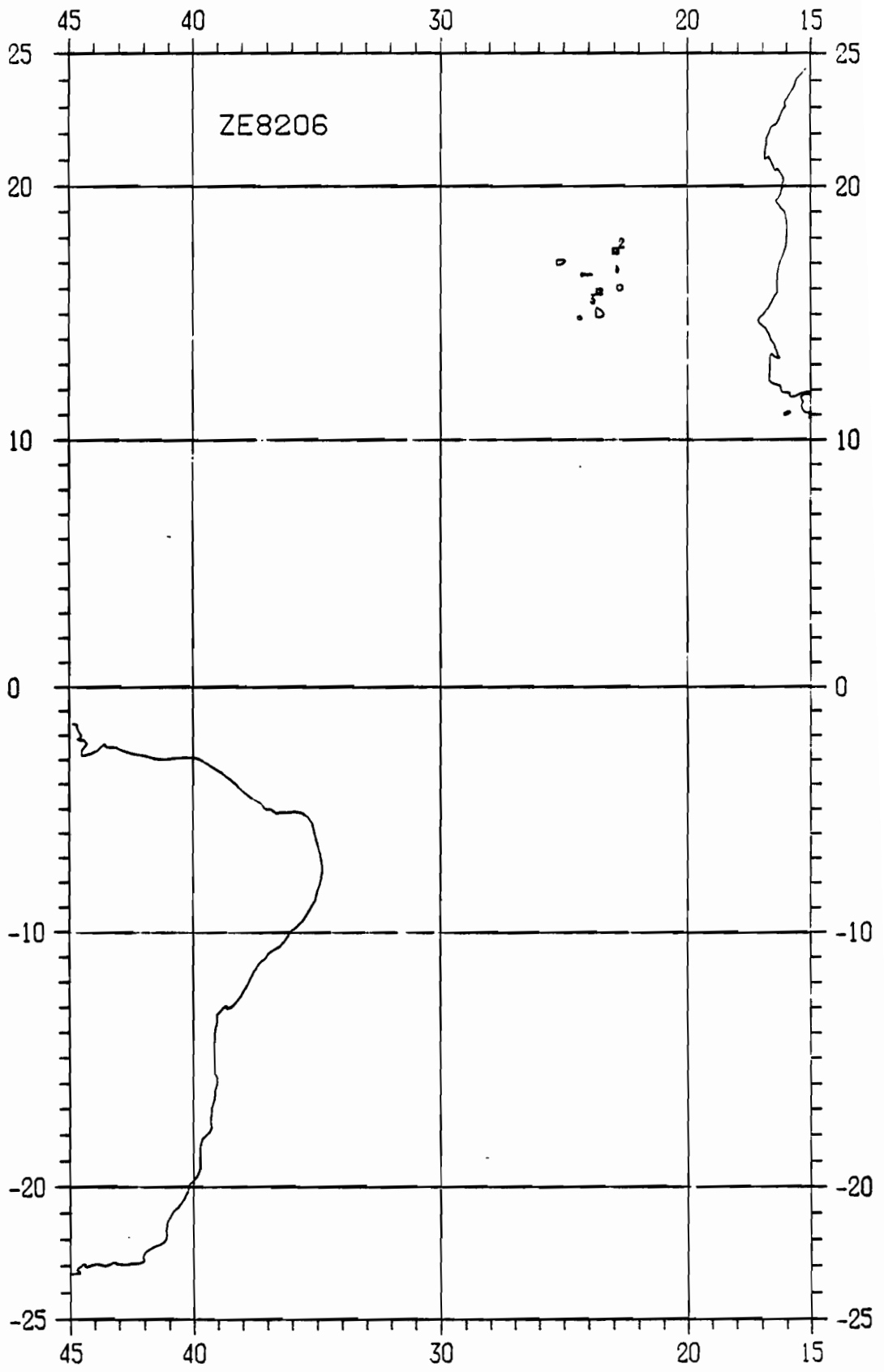
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 TEMP PROF

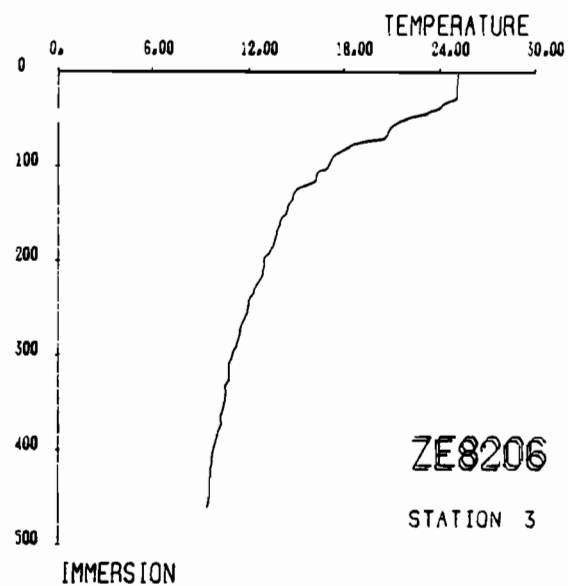
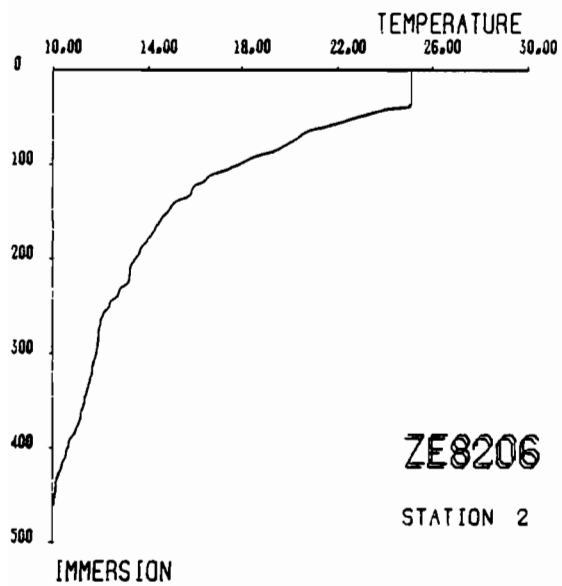
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 25 54  
 24 58  
 23 62  
 22 72  
 21 76  
 20 86  
 19 100  
 18 104  
 17 107  
 16 110  
 15 115  
 14 128  
 13 190

-----  
 TEMP PROF

27 27  
 26 36  
 25 41  
 24 45  
 23 47  
 22 51  
 21 53  
 20 54  
 19 55  
 18 57  
 17 60  
 16 64  
 15 79  
 14 119  
 13 156  
 12 205  
 11 287  
 10 384  
 9 446







## STATION 2

26/ 8/82 6H 0 Z  
LAT 17 30'N  
LONG 22 57'W  
T 3M : 25.1 C  
T461M : 10.0 C

## STATION 3

26/ 8/82 12H 0 Z  
LAT 15 53'N  
LONG 23 37'W  
T 0M : 25.1 C  
T461M : 9.4 C

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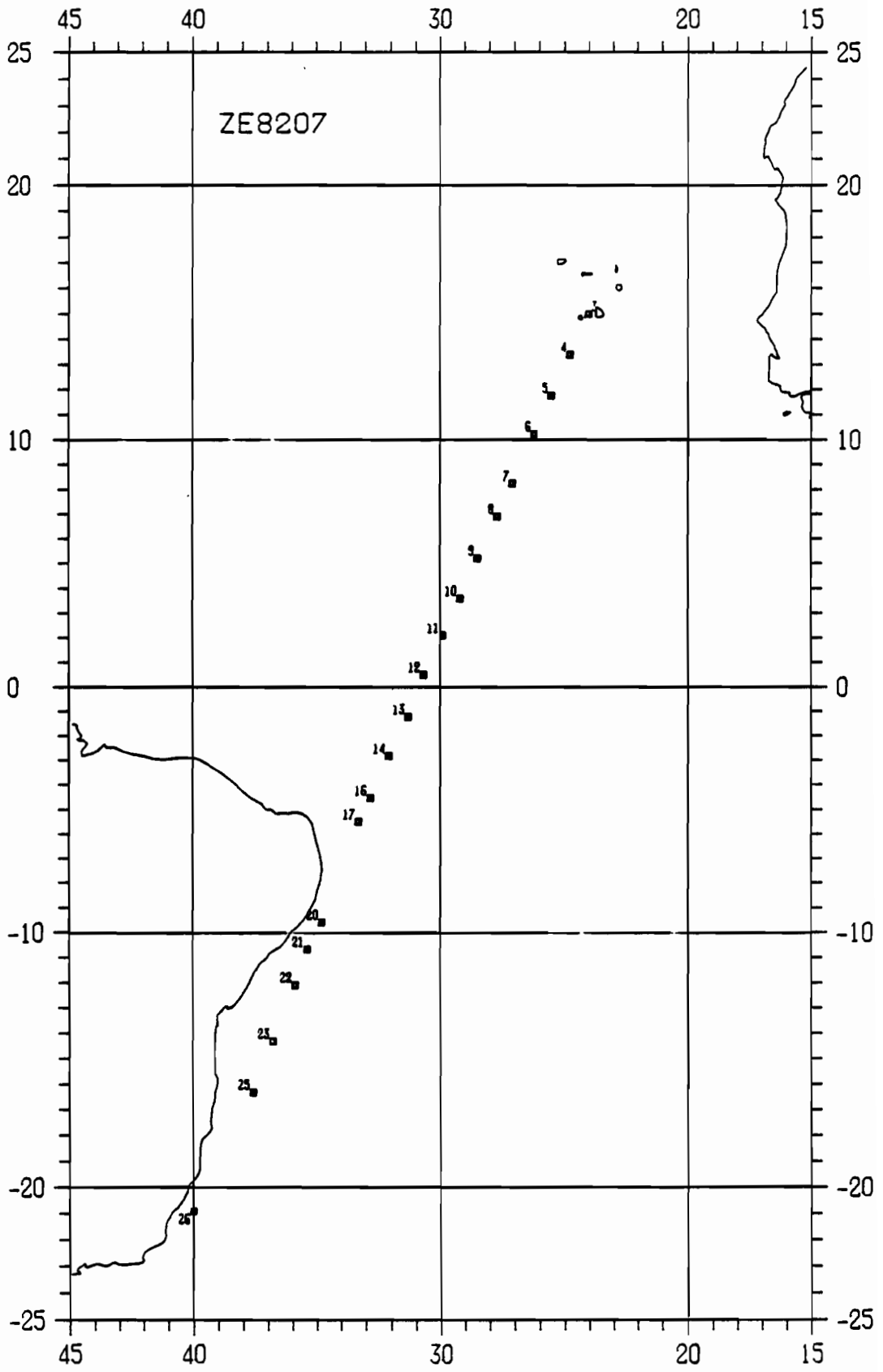
TEMP	PROF
25	39
24	42
23	48
22	56
21	62
20	76
19	88
18	98
17	108
16	121
15	142
14	178
13	228
12	269
11	379

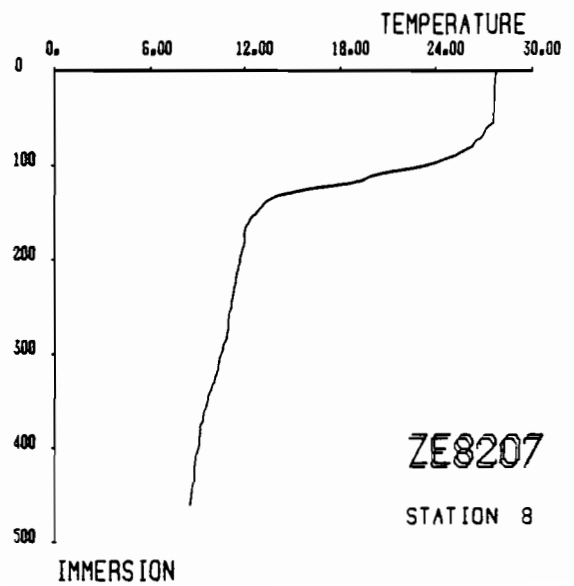
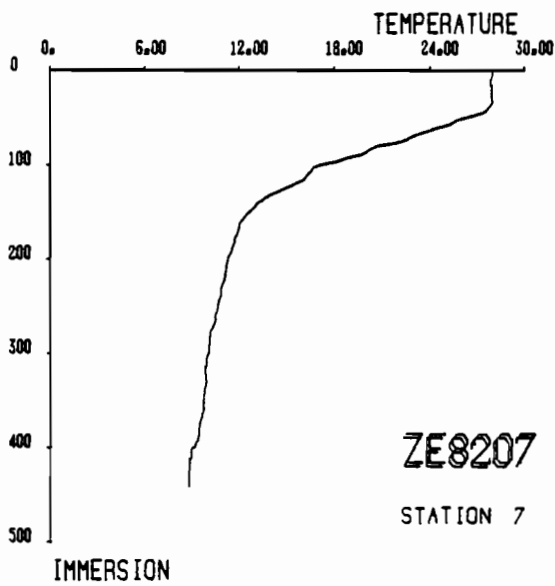
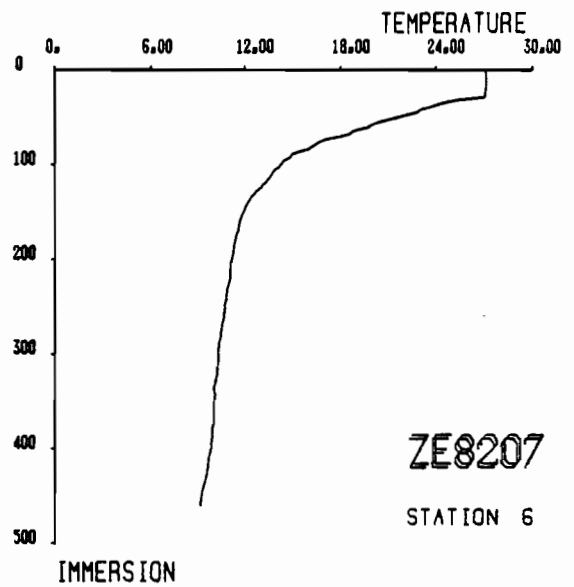
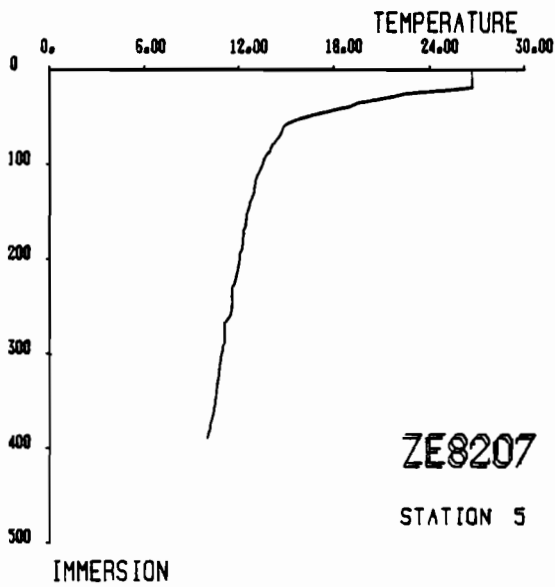
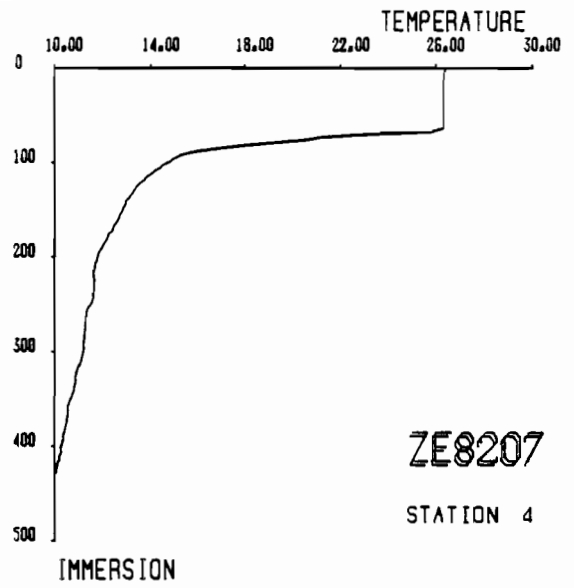
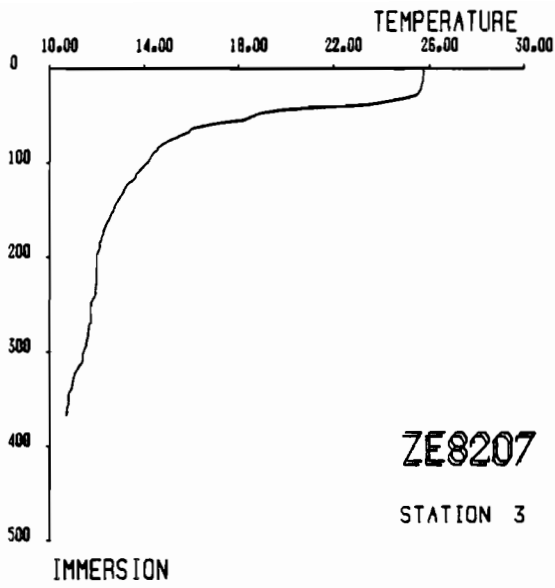
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TEMP	PROF
25	29
24	37
23	45
22	49
21	58
20	72
19	75
18	82
17	100
16	117
15	124
14	156
13	196
12	240
11	299
10	386









STATION 3  
14/11/82 18H 0 Z  
LAT 15 0'N  
LONG 24 3'W  
T 3M : 25.7 C  
T368M : 10.7 C

STATION 4  
15/11/82 0H 0 Z  
LAT 13 24'N  
LONG 24 48'W  
T 3M : 26.4 C  
T430M : 10.0 C

STATION 5  
15/11/82 6H 0 Z  
LAT 11 46'N  
LONG 25 33'W  
T 3M : 26.7 C  
T390M : 10.0 C

-----  
TEMP PROF  
25 31  
24 36  
23 39  
22 40  
21 42  
20 44  
19 47  
18 55  
17 59  
16 64  
15 77  
14 102  
13 135  
12 198  
11 331

TEMP PROF  
26 66  
25 68  
24 69  
23 70  
22 72  
21 74  
20 77  
19 79  
18 82  
17 84  
16 88  
15 95  
14 111  
13 139  
12 189  
11 315

TEMP PROF  
26 20  
25 22  
24 23  
23 25  
22 27  
21 30  
20 33  
19 39  
18 43  
17 46  
16 50  
15 57  
14 83  
13 122  
12 205  
11 294  
10 387

STATION 6  
15/11/82 12H 0 Z  
LAT 10 12'N  
LONG 26 14'W  
T 3M : 27.1 C  
T461M : 9.1 C

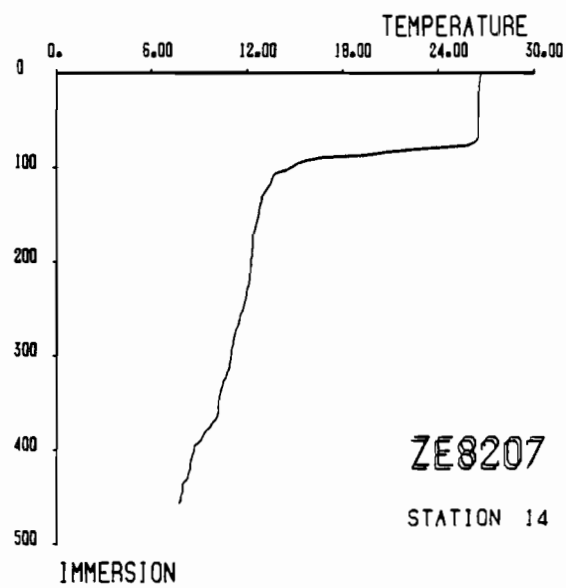
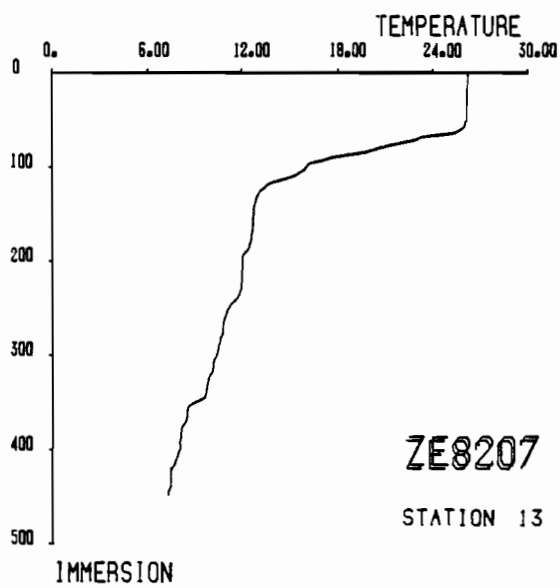
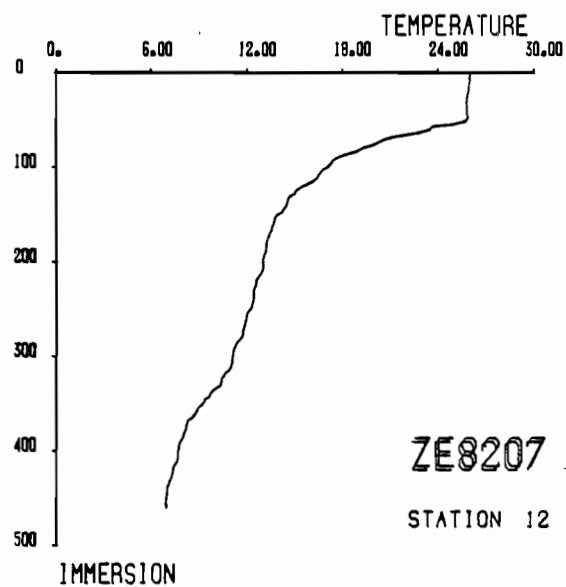
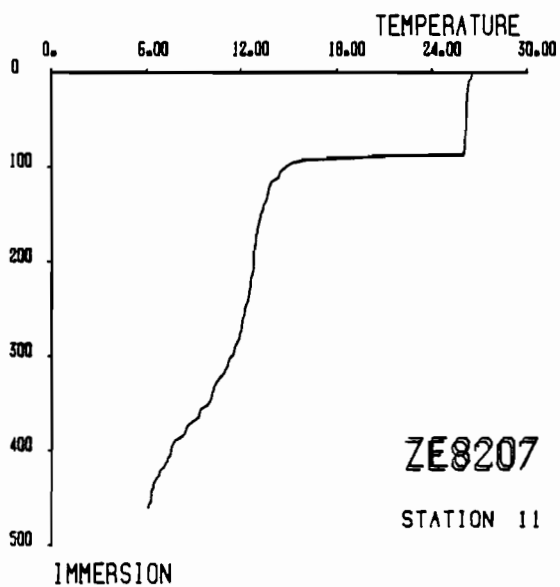
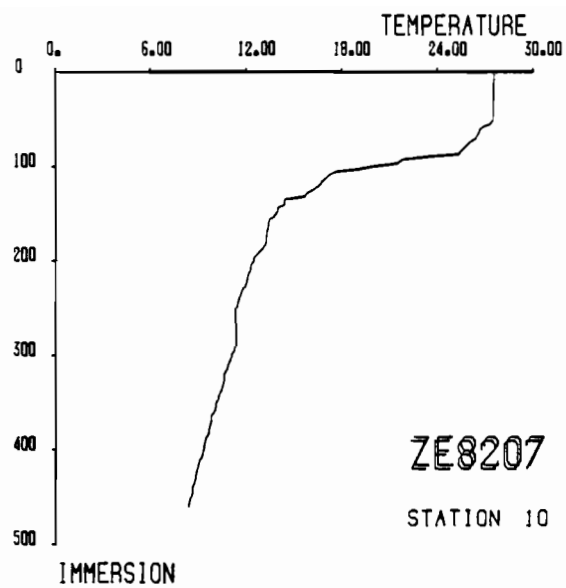
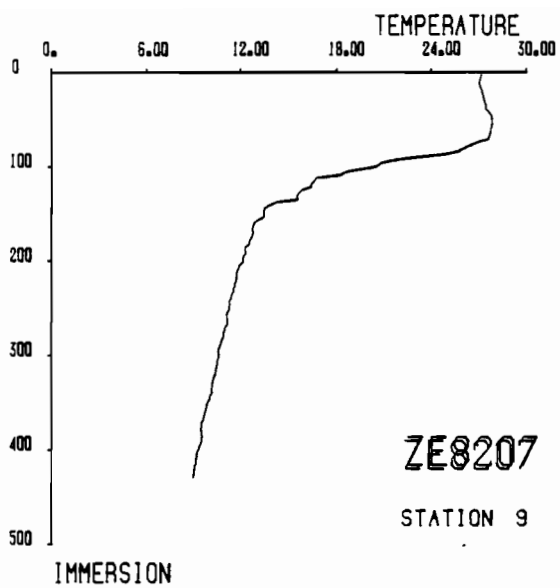
STATION 7  
15/11/82 18H 0 Z  
LAT 8 15'N  
LONG 27 6'W  
T 3M : 28.0 C  
T442M : 8.8 C

STATION 8  
16/11/82 0H 0 Z  
LAT 6 54'N  
LONG 27 42'W  
T 3M : 27.7 C  
T461M : 8.5 C

-----  
TEMP PROF  
27 29  
26 30  
25 32  
24 36  
23 42  
22 47  
21 52  
20 57  
19 63  
18 69  
17 74  
16 83  
15 89  
14 104  
13 124  
12 146  
11 224  
10 335

TEMP PROF  
27 46  
26 51  
25 58  
24 63  
23 68  
22 76  
21 79  
20 86  
19 92  
18 97  
17 100  
16 116  
15 123  
14 131  
13 144  
12 165  
11 225  
10 302  
9 401

TEMP PROF  
27 67  
26 82  
25 91  
24 97  
23 101  
22 104  
21 107  
20 111  
19 117  
18 120  
17 122  
16 125  
15 128  
14 132  
13 145  
12 169  
11 259  
10 331  
9 400

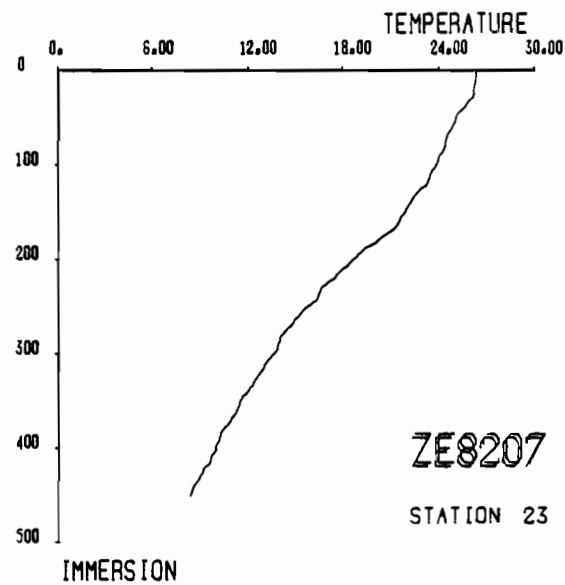
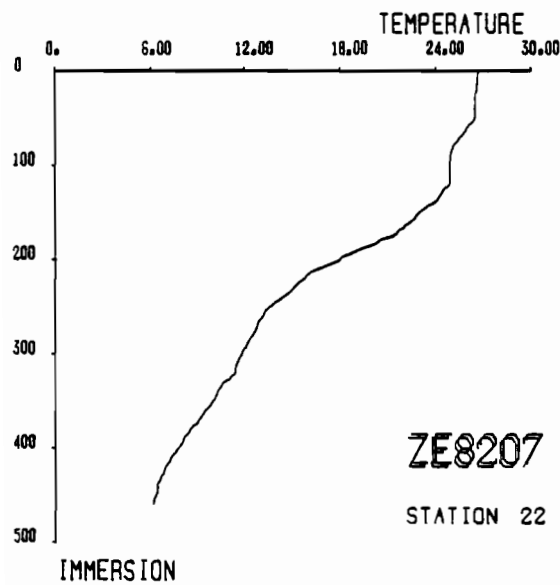
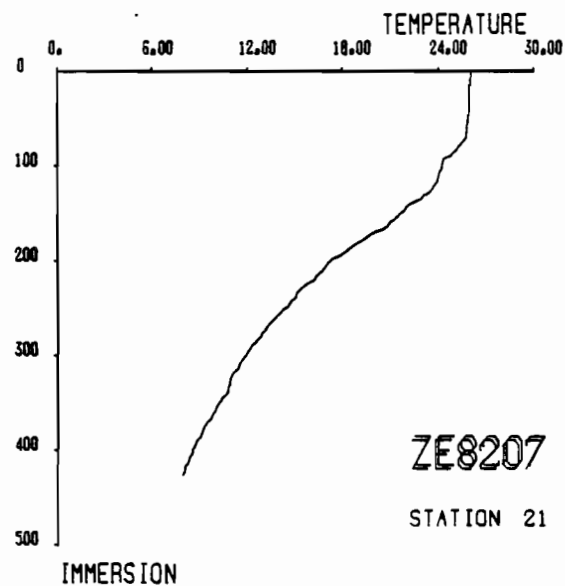
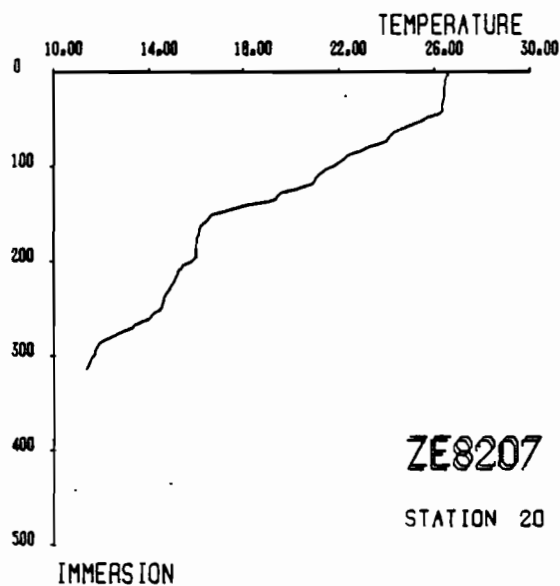
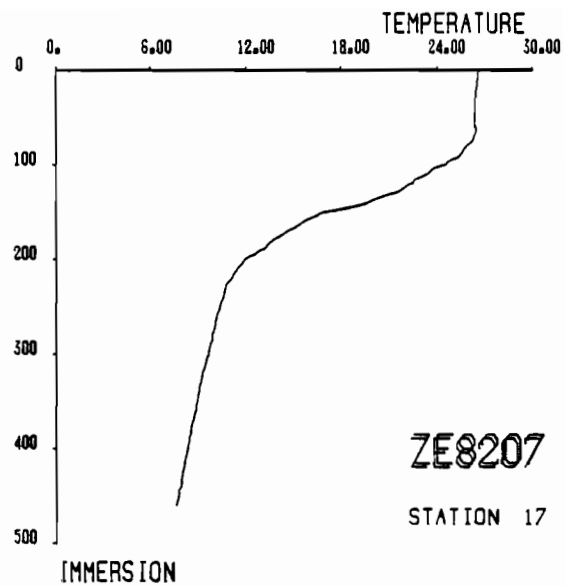
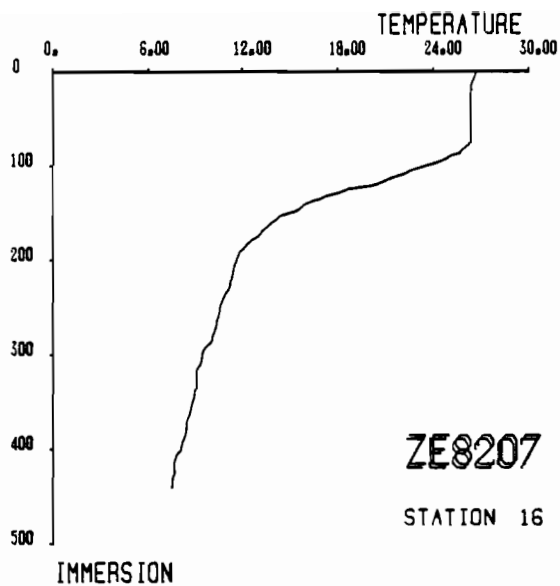


STATION 9	STATION 10	STATION 11
16/11/82 6H30 Z	16/11/82 12H 0 Z	16/11/82 18H 0 Z
LAT 5 12'N	LAT 3 36'N	LAT 2 5'N
LONG 28 30'W	LONG 29 12'W	LONG 29 56'W
T 3M : 27.1 C	T 3M : 27.5 C	T 3M : 26.5 C
T430M : 8.9 C	T461M : 8.3 C	T461M : 6.0 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
27	74	27	57	26	84
26	80	26	74	25	87
25	86	25	87	24	88
24	98	24	89	23	88
23	90	23	90	22	89
22	92	22	92	21	89
21	95	21	97	20	90
20	101	20	99	19	90
19	104	19	102	18	91
18	109	18	105	17	92
17	111	17	112	16	93
16	124	16	126	15	98
15	136	15	133	14	115
14	139	14	143	13	172
13	158	13	187	12	274
12	203	12	221	11	314
11	270	11	303	10	346
10	342	10	359	9	367
9	417	9	413	8	387
				7	418

STATION 12	STATION 13	STATION 14
17/11/82 0H 0 Z	17/11/82 6H 0 Z	17/11/82 12H 0 Z
LAT 0 30'N	LAT 1 12'S	LAT 2 48'S
LONG 30 42'W	LONG 31 20'W	LONG 32 6'W
T 0M : 26.0 C	T 3M : 26.2 C	T 3M : 26.6 C
T461M : 6.9 C	T449M : 7.3 C	T458M : 7.7 C

TEMP	PROF	TEMP	PROF	TEMP	PROF
25	54	26	56	26	75
24	57	25	64	25	77
23	63	24	66	24	78
22	66	23	70	23	80
21	69	22	74	22	81
20	76	21	79	21	83
19	82	20	83	20	85
18	88	19	86	19	87
17	100	18	88	18	88
16	116	17	93	17	89
15	127	16	101	16	91
14	149	15	111	15	97
13	194	14	115	14	104
12	254	13	131	13	127
11	309	12	212	12	227
10	334	11	254	11	291
9	353	10	319	10	367
8	383	9	350	9	391
7	438	8	391	8	435



## STATION 16

17/11/82 18H20 Z  
 LAT 4 32'S  
 LONG 32 50'W  
 T 0M : 26.7 C  
 T442M : 7.4 C

## STATION 17

18/11/82 0H 0 Z  
 LAT 5 30'S  
 LONG 33 18'W  
 T 3M : 26.6 C  
 T461M : 7.5 C

## STATION 20

18/11/82 12H25 Z  
 LAT 9 36'S  
 LONG 34 48'W  
 T 3M : 26.6 C  
 T315M : 11.3 C

-----  
 TEMP PROF

26 81  
 25 91  
 24 98  
 23 103  
 22 110  
 21 116  
 20 122  
 19 124  
 18 129  
 17 133  
 16 140  
 15 149  
 14 158  
 13 174  
 12 189  
 11 234  
 10 287  
 9 338  
 8 402

TEMP PROF

26 78  
 25 94  
 24 102  
 23 113  
 22 123  
 21 131  
 20 137  
 19 143  
 18 147  
 17 150  
 16 157  
 15 167  
 14 177  
 13 189  
 12 199  
 11 221  
 10 267  
 9 334  
 8 422

TEMP PROF

26 46  
 25 56  
 24 74  
 23 83  
 22 96  
 21 112  
 20 125  
 19 138  
 18 142  
 17 149  
 16 179  
 15 223  
 14 261  
 13 273  
 12 285

## STATION 21

18/11/82 18H 0 Z  
 LAT 10 41'S  
 LONG 35 24'W  
 T 3M : 26.0 C  
 T427M : 7.9 C

## STATION 22

19/11/82 0H 0 Z  
 LAT 12 6'S  
 LONG 35 54'W  
 T 3M : 26.7 C  
 T461M : 6.1 C

## STATION 23

19/11/82 6H 0 Z  
 LAT 14 18'S  
 LONG 36 48'W  
 T 3M : 26.3 C  
 T452M : 8.3 C

-----  
 TEMP PROF

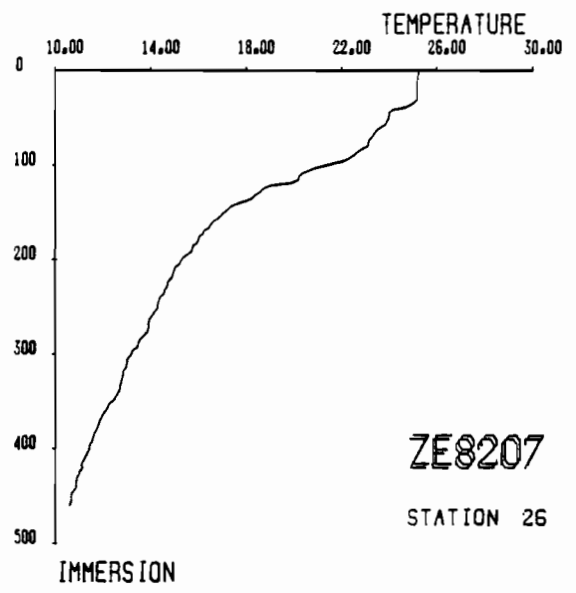
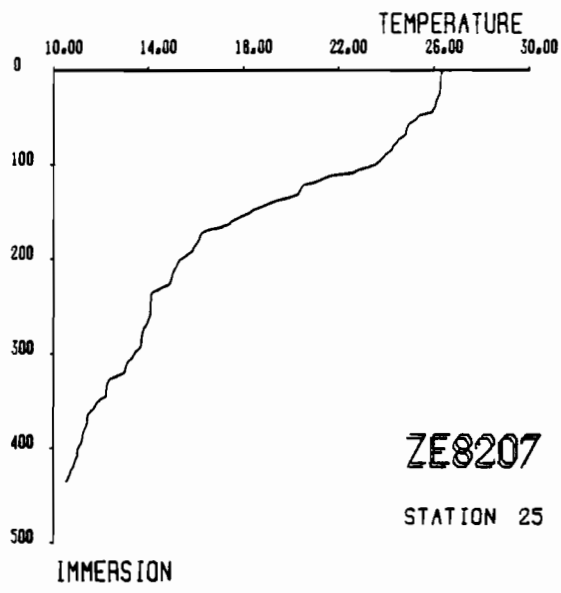
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 25 85  
 24 110  
 23 132  
 22 143  
 21 159  
 20 170  
 19 181  
 18 192  
 17 204  
 16 222  
 15 239  
 14 256  
 13 275  
 12 295  
 11 321  
 10 354  
 9 385  
 8 421

TEMP PROF

26 60  
 25 84  
 24 139  
 23 150  
 22 166  
 21 177  
 20 185  
 19 191  
 18 199  
 17 207  
 16 215  
 15 230  
 14 244  
 13 263  
 12 294  
 11 327  
 10 350  
 9 371  
 8 393  
 7 418

TEMP PROF

26 31  
 25 55  
 24 91  
 23 123  
 22 144  
 21 170  
 20 183  
 19 194  
 18 209  
 17 225  
 16 247  
 15 263  
 14 283  
 13 311  
 12 340  
 11 367  
 10 395  
 9 428





## STATION 25

19/11/82 12H10 Z  
LAT 16 18'S  
LONG 37 37'W  
T 3M : 26.3 C  
T436M : 10.5 C

## STATION 26

20/11/82 6H 0 Z  
LAT 20 54'S  
LONG 40 0'W  
T 3M : 25.2 C  
T461M : 10.6 C

-----  
TEMP PROF

26	40
25	56
24	89
23	104
22	110
21	118
20	133
19	141
18	154
17	166
16	185
15	216
14	263
13	315
12	348
11	400

TEMP PROF

25	34
24	44
23	80
22	96
21	102
20	117
19	122
18	138
17	150
16	175
15	207
14	261
13	310
12	364
11	426