WHOI-87-41

**XBT Observations between 10°N - 10°S
in the Atlantic from Ships-of-Opportunity,
Complemented by AXBT Surveys**

by

John G. Bruce

Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

October 1987

Technical Report

*Funding was provided by the National Science Foundation under
grant Numbers OCE 83-02794 and OCE 85-15332.*

*Reproduction in whole or in part is permitted for any purpose of the
United States Government. This report should be cited as:
Woods Hole Oceanog. Inst. Tech. Rept., WHOI-87-41.*

Approved for publication; distribution unlimited.

Approved for Distribution:

Robert C. Beardsley, Chairman
Department of Physical Oceanography

Table of Contents

	<u>Page</u>
Abstract	ii
Text	1
Table 1	9
Figure 1	13
Sections	14
Figures 2, 3, 4, 5	370

ABSTRACT

A description and listing of 82 XBT sections of 61 stations each from ships-of-opportunity between 10°N-10°S in the Atlantic Ocean from January 1980 to January 1986 is presented. This work was associated with the SEQUAL program. A temperature-depth figure for each section is given with surface temperature, salinity, and σ_t and wind data. Complimentary AXBT observations during two 1983 surveys are also presented.

This report presents the expendable bathythermograph (XBT) sections obtained between 10°S - 10°N in the Atlantic Ocean from 25 January 1980 to 20 January 1986 aboard ships of opportunity enroute between South Africa and North America or Europe. This work was associated with SEQUAL (Seasonal Equatorial Atlantic Experiment).

Along each section throughout the observational period, an XBT probe was released every 20' of latitude with few exceptions. Thus, each 10°S - 10°N section generally contains 61 XBT stations. The observations were made from container ships and tankers following essentially the method as used by Bruce (1981) for the Indian Ocean observational period 1975-1979 (associated with the INDEX program). In addition, a number of airborne XBT (AXBt) stations were occupied by the U.S. Naval Oceanographic Office (NAVOCEANO) in order to compliment the XBT sections in the eddy region off the Northeast coast of South America.

A listing of the 10°S - 10°N cross equatorial sections is given with ship's name, date and region in Table I. All of the ships' tracks along the sections are shown in Figure 1. Most of these tracks were along "standard" sea lanes which have been classified in this report as 1). eastern (route from Cape Town, SA to European ports, crossing equator at approximately 8° - 12°W), 2). central (Cape Town to North America ports, equator at approximately 22° - 26°W), and 3). western (Cape Town to Gulf of Mexico, equator at approximately 38° - 42°W). The ships that were employed initially were Exxon tankers; however, as the Persian Gulf oil business became more difficult, the tankers became unavailable. Following this, other ships were used, most of these being container ships out

of Cape Town owned by SAF Marine (South African Marine Corporation Ltd.). On a few occasions ships from the St. Helena Line were used when others were not available (see schedule, Table I, RMS Centaur). The sections were: 62 on SAF Marine, 14 on Exxon, and 6 on St. Helena Line.

On all voyages a special observer was in charge of obtaining the XBT stations. On the tankers, the SAF Marine trips to Europe and the St. Helena Line, a technician from the University of Cape Town (UTC) joined the vessel at Cape Town for a round trip. The other SAF Marine vessels (Constantia and Victory) arranged for midshipmen (as part of their sea-going program) or a mate to obtain the observations.

XBT probes were Sippican T-4 (460m) or T-7 (760m); however, the temperature sections as presented in this report extend only to 500m depth. All stations (totaling approximately 5000) have been digitized each to its full recorded depth, and the tapes are now available from NODC (attn: George Heimerdinger).

All XBT recording was made on Sippican MK2A-1 analogue recorders (no longer manufactured) inherited from a Polymode project at WHOI. Frequent calibration was with a Sippican Mod A-4 XBT tester and with a standard test canister. Probe launchers were type LM3A, hand held, which could be moved to the best location on deck for launching from the high freeboard vessels, often in a strong wind. In most cases, wind speed and direction were observed at each launch, and an independent SST obtained using a relatively high resolution WHOI bucket thermometer. On every other launch surface salinity was sampled and determined on return to UCT by a Mod. 6230N Plessey

salinometer, calibrated with standard water furnished by WHOI.

All XBT analogue traces have been corrected for any depth errors. Traces showing signs of conductor wire tension or breaks have been eliminated beyond those depths. In one case, however, the traces for XBT section 40 (22, 23 May 1983) at 4°20'N, 24°26'W and 7°40'N, 28°01'W showed no discernible sign of electrical malfunction yet indicated considerably colder water than their neighbors. Although these observations have been included in the figure of the temperature section, they still must be suspected as erroneous.

For all sections for which measurements were available, surface temperature, salinity and σ_t have been plotted as a separate figure. In the case of the sections in the central and western Atlantic, surface salinity is particularly helpful in detecting relatively fresh water advected eastward by the NECC during northern late summer and autumn. The upwelled near-equatorial water in the eastern Atlantic during early summer also is clearly detected by the meridional surface temperature curves.

The individual station positions are plotted in a separate figure giving the cruise track for each section.

The two NAVOCEANO AXBT surveys (run 6-17 March 1983 and 13-20 September 1983) were made to obtain a near synoptic mapping of the eddy structure shown by the XBT sections in the western equatorial Atlantic (0°-12°N, 39°W-58°W) during the seasonal extremes for this region (see figure 2). Earlier work here suggests that anticyclonic eddies in the upper 500m might occur year-round, and that they are associated with the North Brazilian Current (NBC) (Metcalf, 1968; Cochrane, 1969; Cochrane, et al., 1979). The NBC supplied by the northward

branch of the South Equatorial Current flows from the southern hemisphere across the equator and continues northwestward along the coast. Although the NBC flows year-round, Boisvert (1967) indicates that it varies seasonally, being stronger during northern summer and fall between 1°N - 6°N . As suggested by our March 1983 observations, (Bruce, et al, 1984) part of the NBC turns offshore into the eddies near 3°N - 10°N . The general circulation pattern comprised a large northern anticyclonic eddy (approximately 400 km across) at 7°N - 10°N , the eastern edge of which is near 50°W and a southern anticyclonic eddy-like feature (3°N - 6°N) which in part, extends eastward of 39°W (limit of March AXBT survey).

The depth of the 20°C isotherm is mapped using observations from the two AXBT surveys (Figures 3 and 4) which were planned each to have nearly the same station positions and spacing but during different seasons. Also shown are those stations where large thermohaline steps were found (diamond symbol) as discussed in Bruce, et al. (1984). The steps generally occurred to the north of the eddy fronts and were located in the water column just below the main thermocline.

The general circulation patterns of the two seasons suggested by the maps have some similar features. The pronounced northern eddy north of 6°N is observed both seasons as is the southern eddy-like feature south of approximately 6°N - 7°N . Assuming that the flow in general tends to follow the contours as shown in the figures, it would indicate that the eastern side of the NBC turns offshore, while some of the inshore water continues northwestward along the coast both during March and September. Compared to the March flow pattern, the northern eddy had elongated during September with what appeared to

be stronger horizontal gradients. In the southern feature, gradients were also stronger and the central region (where 20°C isotherm is deepest), shifted more eastward offshore, while the northern boundary moved from approximately 7°N to 5°N. The deepening of the 20°C isotherm in the interior of both eddies during September amounted to over 90m (see Figure 5), whereas shoaling occurred offshore east of about 51°W between 6°N-8°N and also to the northeast of the northern eddy.

Between March and September there is a relatively small increase in the mean sea surface temperature (approx. 1°-2°C) which during both periods appears to be modified slightly by the eddy circulation, particularly during September. Some slight coastal upwelling can occur at this time (Ryther, et al., 1967). Some of this slightly cooler water appears to be advected offshore, noticeably along the western and northern boundary of both the northern eddy and southern feature. Satellite IR imagery is only of marginal value for indicating the eddy frontal locations because of the low contrast.

The maps for both seasons suggest that there is considerable flow into and from both the region of the northern eddy and the southern feature. During each season the offshore side of the NBC appears to diverge and turn eastward into both regions. Fuglister (1951) shows that across a 55°W meridional section (from coast to about 10°N) the coastal current strength is greatest during January-June, whereas according to Boisvert (1967) the NBC strength between 1°N-6°N is greatest during July-December. Therefore, a greater proportion of the NBC might turn offshore at about 7°N-8°N into the northern eddy loop during July-December and reduce the amount continuing northwest along the coast which,

as shown in Figure 4, is associated with a cyclonic eddy formed to the west of the northern eddy.

The maps suggest leakage from the southeast boundary of the northern eddy into the southern feature. Some of the flow along the northern edge of the southern feature continues eastward as the source of the North Equatorial Countercurrent while the right side of the flow turns south anticyclonically, some appearing to move equatorward into the Equatorial Undercurrent as suggested by Metcalf (1968).

It can be concluded from the observations of the XBT and AXBT surveys and from the earlier surveys by Cochrane (1975) and Mazeika (1973) that the eddy field in this region is relatively complex and variable. However, the general circulation pattern of the northern eddy and southern eddy-like feature appears to persist year-round with water supplied largely by the NBC. Clearly seasonal variations occur as the eddies intensify and deepen during northern summer and fall when forcing by the southeast trades reaches a maximum. Leakage between eddy boundaries occurs suggesting a region of relatively strong mixing.

REFERENCES

- Boisvert, W. E. (1967). Major currents in the North and South Atlantic between 65°N and 60°S. Technical Report TR-193, Naval Oceanographic Office, NSTL, MS., 39522, 92pp.
- Boyd, J. D. and H. Perkins (1987). Characteristics of thermohaline steps off the northeast coast of South America, July 1983. Deep-Sea Res., 34, 337-364.
- Bruce, J. G. (1981). Variations in the thermal structure and wind field occurring in the western Indian ocean during the monsoons. Technical Report, TR-272, Naval Oceanographic Office, NSTL, MS., 39522, 171pp.
- Bruce, J. G., J. L. Kerling and W. H. Beatty III (1985). On the north Brazilian eddy field. Prog. in Oceanogr., 14, 57-63.
- Cochrane, J. D. (1969). Low sea-surface salinity off northeastern South America in summer, 1965. J. Mar. Res., 27, 327-334.
- Cochrane, J. D. (1975). Portions of a proposal for research in the North Equatorial Countercurrent system of the Atlantic Ocean west of 25°W. Technical Report, 75-7-T, Texas A & M University, College Station, TX.
- Cochrane, J.D., F. J. Kelly, and C. R. Olling (1979). Subthermocline countercurrents in the western equatorial Atlantic Ocean. J. Phys. Oceanogr., 9, 724-738.
- Fuglister, F. C. (1951). Annual variations in current speeds in the Gulf Stream system. J. Mar. Res., 10, 119-127.
- Mazeika, P. A. (1973). Circulation and water masses east of the Lesser Antilles. Deutsches Hydrographisches Zeitschrift, 26, 49-73.
- Metcalf, W. G. (1968). Shallow currents along the northeastern coast of South America. J. Mar. Res., 26, 232-243.
- Ryther, J. H., D. W. Menzel, and N. Corwin (1967). Influence of the Amazon River outflow on the ecology of the western tropical Atlantic. J. Mar. Res., 25, 69-83.

ACKNOWLEDGEMENTS

A large debt of gratitude is owed L. Wolhuter at the University of Cape Town for his continual effort while in charge of the data collection of this program working out of Cape Town. He joined at the commencing of the Indian Ocean XBT study (1975) and continued until the last Atlantic observations were made in January 1986. Without his help the program could not have succeeded. Also thanks are due the oceanographic department at UCT and to the administration of the University for allowing the work to be based there. The South African Marine Corporation Ltd. with the particular help of their Capt. Gillespie lent ships and time to this work entirely without remuneration and are due immeasurable thanks. Also, the use of the Exxon tankers during the first part of the program is appreciated.

Considerable thanks is due the U.S. Naval Oceanographic Office for help with the program including AXBT survey flights and XBTs for some of the ship-of-opportunity sections.

Funds for this work from the National Science Foundation, under grant OCE-8302794 and OCE-8515332 are gratefully acknowledged.

Table 1
EQUATORIAL ATLANTIC XBT SECTIONS

61 XBT stations between 10°S-10°N on each section

SECT. NO.	SHIP	DATE	REGION	LONGITUDE (W) AT		
				10°S	0°	10°N
1	ESSO MEDITERRANEAN	25-30 Jan 80	East	02°35'	10°32'	18°30'
2	ESSO MEDITERRANEAN	1-9 Mar 80	East	01°50'	09°36'	17°22'
3	ESSO COPENHAGEN	5-12 May 80	West	22°07'	37°52'	54°44'
4	ESSO HAMBURG	29 May- 8 Jun 80	West	22°41'	38°01'	55°06'
5	ESSO LE HAVRE	2-14 Jul 80	West	22°00'	37°58'	54°31'
6	ESSO LE HAVRE	27 Jul- 7 Aug 80	West	21°52'	37°57'	54°37'
7	ESSO AFRICA	9-13 Jul 80	East	02°12'	10°17'	17°58'
8	ESSO INDONESIA	22-29 Sep 80	West	23°19'	37°45'	54°30'
9	ESSO AL DURIYAH	12-17 Oct 80	East	(Lat 09°20'S) 02°41'	09°56'	18°00'
10	ESSO AL DURIYAH	16-21 Nov 80	East	02°20'	10°25'	18°05'
11	S.A. CONSTANTIA	19-23 Feb 81	West	23°06'	38°58'	54°14'
12	S.A. CONSTANTIA	5-10 Apr 81	Central	12°10'	24°05'	35°55'
13	ESSO OSAKA SST only	7-14 Apr 81	East	02°24'	10°13'	18°00'
14	S.A. CONSTANTIA	15-19 May 81	West	27°05'	43°54'	58°23'
15	S.A. CONSTANTIA	4-9 Jul 81	Central	(Lat 09°40'S) 10°55'	25°52'	41°04'
16	S.A. SEDERBERG	19-22 Jun 81	East	01°57'	09°45'	16°58'
17	S.A. SEDERBERG	17-20 Jul 81	East	01°30'	08°57'	16°56'
18	S.A. CONSTANTIA	15-19 Aug 81	Central	12°07'	23°41'	35°01'
19	S.A. CONSTANTIA	4-9 Oct 81	Central	(estimated) 11°45'	24°00'	36°38'
20	ESSO KAWASAKI	12-17 Nov 81	East	(Lat 09°20'N) 02°36'	10°43'	17°57'

SECT. NO.	SHIP	DATE	REGION	LONGITUDE (W) AT		
				10°S	0°	10°N
21	S.A. CONSTANTIA	18-23 Nov 81	West	21°52'	37°18'	(Lat 09°40'N) 53°55'
22	S.A. CONSTANTIA	11-16 Jan 82	West	21°17'	33°31'	45°41'
23	S.A. CONSTANTIA	27 Feb- 3 Mar 82	Central	13°53'	26°50'	40°16'
24	S.A. CONSTANTIA	21-27 Apr 82	Central	08°14'	24°35'	41°32'
25	ESSO LE HAVRE	29 Mar- 6 Apr 82	East	02°02'	(Lat 09°20'N) 09°50'	16°59'
26	S.A. CONSTANTIA	30 May- 3 Jun 82	Central	11°18'	22°47'	34°16'
27	S.A. CONSTANTIA	24-29 Jul 82	(East)	03°17'	15°57'	30°07'
28	ESSO HAWAII	6-17 Jun 82	East	02°04'	09°51'	17°44'
29	S.A. WATERBERG	29 Jul- 1 Aug 82	East	01°20'	(Lat 07°40'N) 09°02'	14°49'
30	S.A. WATERBERG	25-28 Aug 82	East	(Lat 09°20'S) 02°12'	(Lat 09°20'N) 09°01'	16°08'
31	S.A. CONSTANTIA	31 Aug- 5 Sep 82	West	26°07'	43°00'	56°29'
32	S.A. CONSTANTIA	8-13 Oct 82	Central	12°03'	24°13'	36°25'
33	S.A. CONSTANTIA	22-26 Nov 82	Central	13°30'	25°30'	37°05'
34	S.A. CONSTANTIA	29 Dec- 3 Jan 83	Central	15°19'	25°42'	36°49'
35	S.A. CONSTANTIA	30 Jan- 5 Feb 83	Central	12°20'	24°38'	37°37'
36	S.A. CONSTANTIA	19-24 Mar 83	Central	13°30'	26°10'	39°13'
37	RMS CENTAUR	11-15 Mar 83	East	12°05'	15°47'	17°34'W
38	RMS CENTAUR	7-11 Apr 83	East	(Lat 09°20'S) 13°01'	17°52'	22°06'W
39	S.A. CONSTANTIA	19-24 Apr 83	West	23°48'	39°01'	55°04'
40	S.A. CONSTANTIA	22-27 May 83	Central	11°19'	20°51'	30°12'

SECT. NO.	SHIP	DATE	REGION	LONGITUDE (W) AT		
				10°S	0°	10°N
41	RMS CENTAUR	19-23 Jun 83	East	12°18'	15°46'	17°43'
42	RMS CENTAUR	15-20 Jul 83	East	12°11'	15°55'	17°35'
43	S.A. CONSTANTIA	24-29 Jun 83	Central	11°30'	23°14'	34°07W
44	S.A. CONSTANTIA	12-16 Aug 83	Central	10°07'	21°17'	32°51'
45	RMS CENTAUR	8-12 Aug 83	East	12°20'	15°47'	17°36'
46	RMS CENTAUR	14-17 Sep 83	East	(Lat 8°40'S) 13°37'	15°56'	17°37'
47	S.A. CONSTANTIA	15-19 Sep 83	Central	12°15'	23°38'	34°59W
48	S.A. CONSTANTIA	22-27 Oct 83	Central	(Lat 9°40S) 11°23'	22°25'	34°50W
49	S.A. CONSTANTIA	17-21 Nov 83	Central	13°58'	25°27'	35°54'
50	S.A. CONSTANTIA	2-6 Jan 84	Central	15°14'	25°37'	(Lat 09°20') 35°22'
51	M/S ELGAREN	20-23 Mar 84	East	02°34'	09°43'	16°44'
52	M/S ELGAREN	23-26 Apr 84	East	(Lat 6°40') 01°49'	(Lat 9°58'N) 07°40'	16°28'
53	VICTORY	16-20 May 84	Central	11°42'	21°02'	30°26'
54	VICTORY	23-28 Jun 84	Central	12°05'	21°13'	31°08'
55	M/S ELGAREN	27-31 May 84	East	02°24'	09°34'	16°23'
56	M/S ELGAREN	2-6 Jul 84	East	01°00'E	08°03'	17°02'
57	VICTORY	2-6 Aug 84	Central	11°38'	21°34'	30°30'
58	VICTORY	15-20 Sep 84	Central	11°20'	21°06'	31°26'
59	M/S ELGAREN	8-11 Aug 84	East	02°38'	09°45'	17°00'
60	M/S ELGAREN	13-17 Sep 84	East	01°14'E	07°41'	17°02'
61	M/S ELGAREN	19-23 Oct 84	East	01°28'	(Lat 9°40'N) 09°53'	16°35'
62	M/S ELGAREN	24-27 Nov 84	East	01°14'E	07°51'	17°02'
63	VICTORY	17-21 Oct 84	Central	12°05'	21°52'	31°04'

SECT. NO.	SHIP	DATE	REGION	LONGITUDE (W) AT		
				10°S	0°	10°N
64	VICTORY	26 Nov- 1 Dec 84	West	22°27'	34°26'	46°05'
65	M/S ELGAREN	28 Dec 84- 1 Jan 85	East	02°34'	09°43'	16°45'
66	M/S ELGAREN	4-9 Feb 85	East	01°19'E	07°58'	17°03'
67	VICTORY	30 Dec 84- 4 Jan 85	Central	12°11'	24°17'	36°03'
68	VICTORY	20-23 Feb 85	West	(Lat 00°40'S) 33°10'	33°56'	45°52'
69	M.S. ELGAREN	13-16 Mar 85	East	02°44'	09°48'	16°45'
70	M.S. ELGAREN	17-20 Apr 85	East	02°51'	10°02'	17°11'
71	VICTORY	1-6 Jun 85	Central	11°21'	20°51'	30°29'
72	VICTORY	23-27 Jul 85	Central	22°13'	34°08'	46°21'
73	M.S. ELGAREN	25-29 May 85	East	02°35'	09°41'	16°46'
74	M.S. ELGAREN	28 Jun- 2 Jul 85	East	01°28'E	07°53'	17°03'
75	M.S. ELGAREN	3-7 Aug 85	East	01°39'	09°47'	16°45'
76	M.S. ELGAREN	7-12 Sep 85	East	01°16'E	07°53'	17°03'
77	VICTORY	20-25 Aug 85	Central	11°09'	20°45'	30°20'
78	VICTORY	17-22 Sep 85	West	22°43'	36°02'	49°09'
79	M.S. ELGAREN	11-15 Oct 85	East	01°20'E	07°43'	16°45'
80	M.S. ELGAREN	15-20 Nov 85	East	01°45'E	07°45'	17°03'
81	VICTORY	14-18 Dec 85	Central	14°50'	25°19'	35°49'
82	VICTORY	14-20 Jan 86	West	18°23'	32°45'	47°17'

Figure 1. Ships' tracks for all XBT ship-of-opportunity sections, nos. 1-82, presented in this report, see Table I.

XBT Section 1, 25-30 Jan 1980
Esso Mediterranean, crossing equator at 10°32'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	25 Jan	1323Z	10°00'S	2°35'W	24.0	----	SSE	14
2	25 Jan	1509Z	9°40'S	2°51'W	24.3	36.57	SE	14
3	25 Jan	1659Z	9°20'S	3°07'W	24.2	----	SE	14
4	25 Jan	1845Z	9°00'S	3°23'W	24.6	36.24	SE	14
5	25 Jan	2013Z	8°40'S	3°36'W	24.6	----	W	14
6	25 Jan	2157Z	8°20'S	3°51'W	24.6	36.04	NW	14
7	25 Jan	2343Z	8°00'S	4°06'W	24.8	----	NW	14
8	26 Jan	0140Z	8°40'S	4°26'W	25.2	36.02	SSE	9
9	26 Jan	0340Z	7°20'S	4°43'W	25.2	----	SE	14
10	26 Jan	0529Z	7°00'S	4°59'N	----	35.98	SE	14
11	26 Jan	0722Z	6°40'S	5°16'W	25.3	----	ENE	8
12	26 Jan	0913Z	6°20'S	5°33'W	25.6	35.91	E	8
13	26 Jan	1102Z	6°00'S	5°49'W	25.5	----	NE	3
14	26 Jan	1251Z	5°40'S	6°06'W	25.6	36.13	SSE	16
15	26 Jan	1440Z	5°20'S	6°22'W	26.0	----	SE	14
16	26 Jan	1630Z	5°00'S	6°38'W	26.0	35.81	S	15
17	26 Jan	1811Z	4°40'S	6°53'W	----	----	SSE	14
18	26 Jan	2009Z	4°20'S	7°11'W	----	35.82	SSE	14
19	26 Jan	2159Z	4°00'S	7°26'W	26.0	----	SSE	14
20	26 Jan	2348Z	3°40'S	7°43'W	26.0	35.72	SE	12
21	27 Jan	0130Z	3°20'S	7°59'W	26.1	----	SE	12
22	27 Jan	0304Z	3°00'S	8°14'W	26.1	35.94	SE	14
23	27 Jan	0455Z	2°40'S	8°30'W	26.4	----	SE	14
24	27 Jan	0647Z	2°20'S	8°46'W	26.2	35.83	SE	14
25	27 Jan	0838Z	2°00'S	9°02'W	26.4	----	SE	14
26	27 Jan	1011Z	1°40'S	9°13'W	26.2	35.90	SE	14
27	27 Jan	1209Z	1°20'S	9°33'W	26.3	----	SE	14
28	27 Jan	1401Z	1°00'S	9°45'W	26.4	36.03	SE	14
29	27 Jan	1549Z	0°40'S	10°03'W	26.3	----	SSE	14
30	27 Jan	1735Z	0°20'S	10°17'W	26.7	35.96	SSE	9
31	27 Jan	1922Z	0°00'	10°32'W	26.4	----	SSE	9

XBT Section 1, 25-30 Jan 1980
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	27 Jan	2115Z	0°20'N	10°49'W	26.7	35.76	SSE	9
33	27 Jan	2256Z	0°40'N	11°04'W	27.1	---	SSE	9
34	28 Jan	0052Z	1°00'N	11°21'W	27.1	35.32	S	6
35	28 Jan	0249Z	1°20'N	11°40'W	27.6	---	SSE	10
36	28 Jan	0428Z	1°40'N	11°56'W	27.3	35.19	SSE	10
37	28 Jan	0620Z	2°00'N	12°11'W	---	---	SSE	10
38	28 Jan	0802Z	2°20'N	12°27'W	27.8	35.20	SW	11
39	28 Jan	0952Z	2°40'N	12°43'W	27.9	---	SW	12
40	28 Jan	1150Z	3°00'N	13°00'W	28.0	35.22	SW	12
41	28 Jan	1334Z	3°20'N	13°13'W	28.3	---	SSW	2
42	28 Jan	1525Z	3°40'N	13°28'W	27.8	35.14	W	3
43	28 Jan	1719Z	4°00'N	13°45'W	28.4	---	W	3
44	28 Jan	1914Z	4°20'N	14°02'W	28.4	34.67	WSW	2
45	28 Jan	2113Z	4°40'N	14°18'W	28.7	---	WSW	2
46	28 Jan	2300Z	5°00'N	14°35'W	28.6	34.21	SSW	3
47	29 Jan	0051Z	5°20'N	14°50'W	28.3	---	SSW	3
48	29 Jan	0243Z	5°40'N	15°07'W	27.8	34.77	C	C
49	29 Jan	0430Z	6°00'N	15°22'W	27.7	---	C	C
50	29 Jan	0622Z	6°20'N	15°38'W	27.1	34.43	C	C
51	29 Jan	0815Z	6°40'N	15°54'W	26.3	34.43	C	C
52	29 Jan	1008Z	7°00'N	16°07'W	26.3	34.51	C	C
53	29 Jan	1158Z	7°20'N	16°26'W	25.1	---	N	10
54	29 Jan	1346Z	7°40'N	16°41'W	25.3	34.80	N	10
55	29 Jan	1543Z	8°00'N	16°58'W	26.4	---	N	10
56	29 Jan	1736Z	8°20'N	17°13'W	26.4	35.51	NNE	7
57	29 Jan	1930Z	8°40'N	17°29'W	26.7	---	NNE	7
58	29 Jan	2135Z	9°00'N	17°45'W	25.3	35.38	NNE	7
59	29 Jan	2310Z	9°20'N	17°58'W	25.3	---	NNW	12
60	30 Jan	0107Z	9°40'N	18°15'W	25.1	35.21	N	13
61	30 Jan	0301Z	10°00'N	18°30'W	25.1	---	NNW	13

ESSO MEDITERRANEAN

25 - 30 JAN 1980

XBT Section 2, 1-9 Mar 80
Esso Mediterranean, crossing equator at 9°36'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	1 Mar	2106Z	10°00'N	17°22'W	22.7	35.30	ENE	11
2	1 Mar	2356Z	9°40'N	17°05'W	22.3	----	NNW	15
3	2 Mar	0224Z	9°20'N	16°52'W	24.3	35.35	NNW	15
4	2 Mar	0439Z	9°00'N	16°36'W	25.1	----	NNW	20
5	2 Mar	0723Z	8°40'N	16°22'W	25.6	35.38	NNW	13
6	2 Mar	0953Z	8°20'N	16° 5'W	25.9	----	NNW	12
7	2 Mar	1219Z	8°00'N	15°50'W	26.0	35.19	NNW	13
8	2 Mar	1512Z	7°40'N	15°34'W	26.3	----	NW	9
9	2 Mar	1746Z	7°20'N	15°19'W	26.7	----	NW	9
10	2 Mar	2014Z	7°00'N	15° 3'W	26.9	----	WSW	6
11	2 Mar	2251Z	6°40'N	14°47'W	27.3	35.23	WSW	7
12	3 Mar	0125Z	6°20'N	14°29'W	27.8	----	WSW	10
13	3 Mar	0357Z	6°00'N	14°12'W	27.2	35.02	WSW	10
14	3 Mar	0640Z	5°40'N	13°57'W	27.5	----	WNW ?	6
15	3 Mar	0930Z	5°20'N	13°40'W	27.8	34.90	NNW ?	5
16	3 Mar	1225Z	5°00'N	13°21'W	27.9	----	W	2
17	3 Mar	1525Z	4°40'N	13°06'W	27.8	34.91	W	10
18	3 Mar	1816Z	4°20'N	12°52'N	27.8	----	SW	3
19	3 Mar	2109Z	4°00'N	12°38'W	28.1	34.93	W	4
20	4 Mar	0002Z	3°40'N	12°19'W	28.2	----	SE	6
21	4 Mar	0257Z	3°20'N	12°03'W	28.0	34.87	SSE	10
22	4 Mar	0540Z	3°00'N	11°42'W	28.2	----	SE	5
23	4 Mar	0850Z	2°40'N	11°30'W	28.0	34.93	SE	6
24	4 Mar	1140Z	2°20'N	11°13'W	28.0	----	S	13
25	4 Mar	1423Z	2°00'N	10°57'W	----	34.96	SSE	6
26	4 Mar	1736Z	1°40'N	10°43'W	28.2	----	SE	9
27	4 Mar	2034Z	1°20'N	10°30'W	28.0	34.89	SE	9
28	4 Mar	2330Z	1°00'N	10°17'W	----	----	SE	12
29	5 Mar	0207Z	0°40'N	10°02'W	27.8	35.06	SE	9
30	5 Mar	0518Z	0°20'N	9°50'N	27.3	----	S	9
31	5 Mar	0815Z	0°00'	9°36'W	26.9	35.53	S	9

XBT Section 2, 1-9 Mar 80
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	5 Mar	1106Z	0°20'S	9°22'W	26.9	----	SSE	10
33	5 Mar	1415Z	0°40'S	9°05'W	27.3	35.60	SSE	12
34	5 Mar	1727Z	1°00'S	8°49'W	27.3	----	SSE	12
35	5 Mar	2021Z	1°20'S	8°35'W	27.3	35.59	S	10
36	5 Mar	2311Z	1°40'S	8°21'W	----	----	SSE	14
37	6 Mar	0243Z	2°00'S	8°05'W	27.0	35.65	S	12
38	6 Mar	0540Z	2°20'S	7°48'W	27.3	----	SSE	13
39	6 Mar	0815Z	2°40'S	7°32'W	27.0	35.82	SSE	14
40	6 Mar	1155Z	3°00'S	7°17'W	27.0	----	SSE	20
41	6 Mar	1501Z	3°20'S	7°00'W	27.1	35.91	SSE	20
42	6 Mar	1815Z	3°40'S	6°42'W	27.0	----	SSE	20
43	6 Mar	2130Z	4°00'S	6°29'W	26.9	35.95	SSE	16
44	7 Mar	0042Z	4°20'S	6°13'W	----	----	SSE	16
45	7 Mar	0340Z	4°40'S	5°58'W	26.9	35.93	SSE	16
46	7 Mar	0650Z	5°00'S	5°43'W	27.0	----	SE	11
47	7 Mar	1004Z	5°20'S	5°28'W	26.8	35.92	SE	20
48	7 Mar	1300Z	5°40'S	5°14'W	26.8	----	SE	20
49	7 Mar	1613Z	6°00'S	4°59'W	26.7	35.93	SE	17
50	7 Mar	1921Z	6°20'S	4°42'W	26.7	----	SE	17
51	7 Mar	2212Z	6°40'S	4°29'W	25.6	36.10	SE	17
52	8 Mar	0112Z	7°00'S	4°13'W	26.0	----	SE	14
53	8 Mar	0404Z	7°20'S	3°52'W	25.9	36.13	SE	14
54	8 Mar	0649Z	7°40'S	3°32'N	26.0	----	SE	10
55	8 Mar	0956Z	8°00'S	3°25'W	26.0	36.28	SE	10
56	8 Mar	1225Z	8°20'S	3°11'W	25.6	----	SE	10
57	8 Mar	1510Z	8°40'S	2°56'W	26.0	36.17	SSE	6
58	8 Mar	1801Z	9°00'S	2°40'W	26.0	----	SE	11
59	8 Mar	2047Z	9°20'S	2°25'W	25.8	36.31	SE	11
60	8 Mar	2340Z	9°40'S	2°08'W	24.9	----	SE	11
61	9 Mar	0227Z	10°00'S	1°50'W	25.4	36.66	SE	11

ESSO MEDITERRANEAN

1-9 MAR 1980

XBT Section 3, 5-12 May 80
Esso Copenhagen, crossing equator at 37°52'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	5 May	0536Z	10°00'S	22°07'W	27.2	36.80	E	10
2	5 May	0903Z	9°40'S	22°45'W	27.2	----	ESE	10
3	5 May	1138Z	9°20'S	23°16'W	27.6	36.66	ESE	10
4	5 May	1358Z	9°00'S	23°43'W	27.7	----	E	10
5	5 May	1635Z	8°40'S	24°14'W	27.8	36.55	ESE	14
6	5 May	1923Z	8°20'S	24°47'W	27.9	----	ESE	14
7	5 May	2150Z	8°00'S	25°16'W	27.9	36.49	ESE	10
8	6 May	0030Z	7°40'S	25°48'W	27.8	----	ESE	10
9	6 May	0310Z	7°20'S	26°10'W	27.9	36.38	E	10
10	6 May	0550Z	7°00'S	26°50'W	28.0	----	ESE	10
11	6 May	0820Z	6°40'S	27°22'W	28.0	36.27	ESE	10
12	6 May	1058Z	6°20'S	27°51'W	28.1	----	ESE	10
13	6 May	1338Z	6°00'S	28°23'W	28.2	36.21	NNE	10
14	6 May	1625Z	5°40'S	28°55'W	28.4	----	ESE	10
15	6 May	1910Z	5°20'S	29°25'W	28.2	36.26	ESE	9
16	6 May	2150Z	5°00'S	29°57'W	28.1	----	ESE	9
17	6 May	2435Z	4°40'S	30°28'W	27.8	36.28	ESE	9
18	7 May	0316Z	4°20'S	30°58'W	27.8	----	SW	5
19	7 May	0550Z	4°00'S	31°30'W	27.7	36.20	SE	5
20	7 May	0848Z	3°40'S	32°09'W	27.7	----	SE	5
21	7 May	1205Z	3°20'S	32°39'W	27.9	36.20	SE	5
22	7 May	1450Z	3°00'S	33°10'W	28.0	----	S	8
23	7 May	1720Z	2°40'S	33°43'W	28.0	36.26	SE	13
24	7 May	2017Z	2°20'S	34°20'W	28.0	----	SE	10
25	7 May	2227Z	2°00'S	34°47'W	28.0	36.19	SE	14
26	8 May	0150Z	1°40'S	35°20'W	28.0	----	SE	10
27	8 May	0400Z	1°20'S	35°53'W	27.7	36.24	SE	5
28	8 May	0650Z	1°00'S	36°28'W	27.6	----	SE	9
29	8 May	0858Z	0°40'S	36°46'W	27.7	36.19	SE	9
30	8 May	1141Z	0°20'S	37°19'W	27.7	----	SE	10
31	8 May	1436Z	0°00'	37°52'W	28.0	36.24	WNW	1

XBT Section 3, 5-12 May 80
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	8 May	1732Z	0°20'N	38°24'W	28.2	---	SE	8
33	8 May	2035Z	0°40'N	38°55'W	27.9	36.19	SE	10
34	9 May	0013Z	1°00'N	39°34'W	27.9	---	SE	10
35	9 May	0317Z	1°20'N	40°07'W	27.9	36.10	E	9
36	9 May	0625Z	1°40'N	40°39'W	27.9	---	SE	9
37	9 May	0930Z	2°00'N	41°08'W	27.9	36.02	SE	8
38	9 May	1237Z	2°20'N	41°41'W	28.4	---	E	8
39	9 May	1523Z	2°40'N	42°12'W	27.8	35.66	ENE	9
40	9 May	1930Z	3°00'N	42°51'W	28.1	---	NE	10
41	9 May	2231Z	3°20'N	43°23'W	27.9	35.24	NE	14
42	10 May	0136Z	3°40'N	43°58'W	27.9	---	NE	10
43	10 May	0450Z	4°00'N	44°32'W	27.8	35.38	ESE	14
44	10 May	0740Z	4°20'N	45°04'W	27.7	---	ESE	14
45	10 May	1050Z	4°40'N	45°36'W	27.7	35.38	ESE	14
46	10 May	1332Z	5°00'N	46°08'W	27.6	---	ESE	14
47	10 May	1628Z	5°20'N	46°28'W	27.6	35.76	E	14
48	10 May	1936Z	5°40'N	47°02'W	27.7	---	ENE	18
49	10 May	2319Z	6°00'N	47°45'W	27.7	35.73	ENE	19
50	11 May	0250Z	6°20'N	48°17'W	27.8	---	ENE	17
51	11 May	0545Z	6°40'N	48°50'W	27.5	35.68	ENE	19
52	11 May	0812Z	7°00'N	49°24'W	27.7	---	E	19
53	11 May	1117Z	7°20'N	49°58'W	27.7	35.60	E	19
54	11 May	1347Z	7°40'N	50°41'W	27.7	---	E	19
55	11 May	1855Z	8°00'N	51°26'W	27.8	35.81	ENE	25
56	11 May	2057Z	8°20'N	52°00'W	28.0	---	ENE	25
57	11 May	2317Z	8°40'N	52°32'W	27.9	35.22	E	19
58	12 May	0202Z	9°00'N	53°05'W	28.0	---	E	19
59	12 May	0447Z	9°20'N	53°38'W	27.4	34.87	E	19
60	12 May	0730Z	9°40'N	54°11'W	27.6	---	ENE	22
61	12 May	1004Z	10°00'N	54°44'W	27.6	---	E	19

ESSO COPENHAGEN

5-12 MAY 1980

XBT Section 4, 29 May-8 Jun 80
Esso Hamburg, crossing equator at 38°01'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	29 May	1150Z	10°00'N	55°06'W	27.7	---	E	23
2	29 May	1625Z	9°40'N	54°34'W	27.7	35.81	E	20
3	29 May	2106Z	9°20'N	53°59'W	---	---	ENE	20
4	30 May	0200Z	9°00'N	53°31'W	---	---	E	20
5	30 May	0640Z	8°40'N	52°43'W	28.1	---	ENE	22
6	30 May	1105Z	8°20'N	52°11'W	27.9	---	E	20
7	30 May	1449Z	8°00'N	51°40'W	27.8	---	ENE	30
8	30 May	1830Z	7°40'N	51°09'W	27.9	35.13	ENE	21
9	30 May	2228Z	7°20'N	50°37'W	27.6	---	ENE	15
10	31 May	0244Z	7°00'N	50°04'W	27.9	35.85	E	20
11	31 May	0700Z	6°40'N	49°29'W	28.1	---	ENE	14
12	31 May	1149Z	6°20'N	48°50'W	28.0	35.60	E	12
13	31 May	1622Z	6°00'N	48°08'W	28.2	---	ESE	10
14	31 May	1940Z	5°40'N	47°36'W	28.4	36.16	ESE	11
15	31 May	2230Z	5°20'N	47°12'W	28.1	---	ESE	12
16	1 Jun	0145Z	5°00'N	46°43'W	27.8	36.34	E	10
17	1 Jun	0500Z	4°40'N	46°10'W	27.9	---	ESE	8
18	1 Jun	0838Z	4°20'N	45°35'W	27.7	35.78	ESE	9
19	1 Jun	1223Z	4°00'N	45°00'W	27.7	---	E	10
20	1 Jun	1552Z	3°40'N	44°21'W	28.2	35.66	ESE	10
21	1 Jun	1934Z	3°20'N	43°46'W	28.1	---	ESE	6
22	1 Jun	2303Z	3°00'N	43°13'W	28.0	36.08	ESE	5
23	2 Jun	0240Z	2°40'N	42°37'W	28.0	---	ESE	8
24	2 Jun	0605Z	2°20'N	42°02'W	27.9	35.96	ESE	11
25	2 Jun	0924Z	2°00'N	41°28'W	27.9	---	ESE	12
26	2 Jun	1305Z	1°40'N	40°53'W	28.0	35.94	E	15
27	2 Jun	1635Z	1°20'N	40°21'W	28.2	---	E	14
28	2 Jun	2028Z	1°00'N	39°49'W	28.0	35.98	ESE	14
29	3 Jun	0025Z	0°40'N	39°10'W	27.7	---	ESE	14
30	3 Jun	0358Z	0°20'N	38°31'W	27.7	36.08	ESE	11
31	3 Jun	0800Z	0°00'	38°01'W	27.6	---	ESE	12

XBT Section 4, 29 May-8 Jun 80
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	3 Jun	1130Z	0°20'S	37°31'W	27.4	36.35	ESE	15
33	3 Jun	1527Z	0°40'S	36°56'W	27.6	---	ESE	9
34	3 Jun	1858Z	1°00'S	36°27'W	27.7	36.39	ESE	8
35	3 Jun	2258Z	1°20'S	35°52'W	27.7	---	ESE	10
36	4 Jun	0233Z	1°40'S	35°18'W	27.7	36.39	ESE	10
37	4 Jun	0626Z	2°00'S	34°45'W	27.6	---	ESE	10
38	4 Jun	1021Z	2°20'S	34°12'W	27.7	36.38	ESE	12
39	4 Jun	1418Z	2°40'S	33°37'W	27.8	---	ESE	8
40	4 Jun	1817Z	3°00'S	33°03'W	28.1	36.35	ESE	8
41	4 Jun	2250Z	3°20'S	32°27'W	27.9	---	E	8
42	5 Jun	0230Z	3°40'S	31°53'W	27.7	36.43	ESE	6
43	5 Jun	0615Z	4°00'S	31°24'W	27.8	---	ESE	11
44	5 Jun	1006Z	4°20'S	30°53'W	27.6	36.34	ESE	11
45	5 Jun	1410Z	4°40'S	30°23'W	27.6	---	ESE	20
46	5 Jun	1758Z	5°00'S	29°53'W	27.7	36.35	ESE	16
47	5 Jun	2139Z	5°20'S	29°27'W	27.5	---	ESE	12
48	6 Jun	0113Z	5°40'S	28°58'W	27.4	36.33	ESE	15
49	6 Jun	0448Z	6°00'S	28°28'W	27.5	---	ESE	10
50	6 Jun	0828Z	6°20'S	27°57'W	27.6	36.27	ESE	12
51	6 Jun	1250Z	6°40'S	27°21'W	27.8	---	ESE	12
52	6 Jun	1538Z	7°00'S	26°59'W	27.8	36.23	ESE	14
53	6 Jun	1914Z	7°20'S	26°30'W	27.6	---	SE	12
54	6 Jun	2250Z	7°40'S	26°00'W	27.5	36.37	ESE	13
55	7 Jun	0222Z	8°00'S	25°31'W	27.4	---	E	16
56	7 Jun	0552Z	8°20'S	25°03'W	27.3	36.23	E	16
57	7 Jun	0924Z	8°40'S	24°34'W	27.1	---	ESE	16
58	7 Jun	1310Z	9°00'S	24°03'W	27.2	36.56	ESE	17
59	7 Jun	1635Z	9°20'S	23°37'W	27.2	---	ESE	20
60	7 Jun	2035Z	9°40'S	23°06'W	27.1	36.73	ESE	21
61	8 Jun	0050Z	10°00'S	22°41'W	26.9	---	ESE	25

XBT Section 5, 2-14 Jul 80
Esso Le Havre, crossing equator at 37°58'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	2 Jul	1230Z	10°00'S	22°00'W	26.2	---	ESE	6
2	2 Jul	1657Z	09°40'S	22°31'W	26.3	36.72	ESE	5
3	2 Jul	2135Z	09°20'S	23°02'W	26.1	---	ESE	5
4	3 Jul	0154Z	09°00'S	23°34'W	26.8	36.49	ESE	6
5	3 Jul	0621Z	08°40'S	24°05'W	27.0	---	ESE	5
6	3 Jul	1041Z	08°20'S	24°37'W	27.1	36.21	ESE	5
7	3 Jul	1508Z	08°00'S	25°09'W	27.1	---	ESE	5
8	3 Jul	1950Z	07°40'S	25°41'W	27.3	36.21	ESE	5
9	3 Jul	2344Z	07°20'S	26°12'W	27.2	---	ESE	6
10	4 Jul	0403Z	07°00'S	26°42'W	27.4	36.19	ESE	5
11	4 Jul	0921Z	06°40'S	27°17'W	27.3	---	ESE	6
12	4 Jul	1352Z	06°20'S	27°48'W	27.3	36.01	ESE	6
13	4 Jul	1918Z	06°00'S	28°19'W	27.2	---	ESE	4
14	4 Jul	2300Z	05°40'S	28°47'W	27.4	36.07	ESE	4
15	5 Jul	0456Z	05°20'S	29°19'W	27.2	---	ESE	6
16	5 Jul	0957Z	05°00'S	29°50'W	27.0	36.01	ESE	6
17	5 Jul	1425Z	04°40'S	30°30'W	27.3	---	ESE	5
18	5 Jul	1909Z	04°20'S	30°55'W	27.4	36.07	ESE	3
19	6 Jul	0000Z	04°00'S	31°30'W	26.8	---	ESE	4
20	6 Jul	0447Z	03°40'S	31°59'W	27.0	36.09	SE	4
21	6 Jul	0940Z	03°20'S	32°30'W	27.0	---	SE	4
22	6 Jul	1445Z	03°00'S	33°03'W	27.3	36.27	ESE	6
23	6 Jul	1946Z	02°40'S	33°36'W	27.2	---	SE	5
24	7 Jul	0100Z	02°20'S	34°09'W	27.2	36.36	SE	5
25	7 Jul	0702Z	02°00'S	34°45'W	27.0	---	ESE	6
26	7 Jul	1214Z	01°40'S	35°21'W	26.8	36.15	SSE	4
27	7 Jul	1708Z	01°20'S	35°52'W	27.2	---	SE	3
28	7 Jul	2126Z	01°00'S	36°21'W	27.2	36.23	SE	3
29	8 Jul	0244Z	00°40'S	36°55'W	27.3	---	SE	4
30	8 Jul	0747Z	00°20'S	37°24'W	27.2	36.23	SE	4
31	8 Jul	1221Z	00°00'	37°58'W	27.5	---	SE	3

XBT Section 5, 2-14 Jul 80
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	8 Jul	1548Z	00°20'N	38°35'W	27.7	36.19	ESE	3
33	8 Jul	1810Z	00°40'N	39°09'W	27.9	---	ESE	4
34	8 Jul	2045Z	01°00'N	39°38'W	27.9	35.80	ESE	3
35	9 Jul	0150Z	01°20'N	40°10'W	28.0	---	ESE	4
36	9 Jul	0706Z	01°40'N	40°41'W	28.0	35.72	SE	4
37	9 Jul	1123Z	02°00'N	41°20'W	28.0	---	ESE	4
38	9 Jul	1602Z	02°20'N	41°51'W	27.9	36.03	ESE	4
39	9 Jul	2007Z	02°40'N	42°21'W	27.8	---	ESE	4
40	9 Jul	2321Z	03°00'N	42°47'W	27.6	36.36	ESE	4
41	10 Jul	0420Z	03°20'N	43°15'W	28.3	---	SE	5
42	10 Jul	1004Z	03°40'N	43°41'W	28.3	35.86	ESE	4
43	10 Jul	1727Z	04°00'N	44°22'W	28.3	---	SSE	4
44	10 Jul	2345Z	04°20'N	45°04'W	28.0	35.83	NNE	3
45	11 Jul	1018Z	04°40'N	45°47'W	27.8	---	SSE	3
46	11 Jul	1653Z	05°00'N	46°19'W	28.1	35.46	ESE	3
47	11 Jul	2325Z	05°20'N	46°53'W	28.2	---	ESE	3
48	12 Jul	0746Z	05°40'N	47°27'W	28.1	36.09	ESE	3
49	12 Jul	1230Z	06°00'N	47°57'W	28.2	---	ESE	3
50	12 Jul	1902Z	06°20'N	48°20'W	28.5	34.23	ESE	3
51	12 Jul	2455Z	06°40'N	48°57'W	28.1	---	E	4
52	13 Jul	0425Z	07°00'N	49°20'W	28.2	33.41	E	4
53	13 Jul	0911Z	07°20'N	49°57'W	27.7	---	SE	4
54	13 Jul	1421Z	07°40'N	50°42'W	27.7	35.55	WSW	1
55	13 Jul	1846Z	08°00'N	51°14'W	28.2	---	WNW	2
56	14 Jul	0000Z	08°20'N	52°05'W	28.3	35.98	C	---
57	14 Jul	0315Z	08°40'N	52°33'W	28.2	---	C	---
58	14 Jul	0650Z	09°00'N	53°02'W	28.3	34.92	NE	3
59	14 Jul	0850Z	09°20'N	53°17'W	27.8	---	ENE	3
60	14 Jul	1303Z	09°40'N	53°49'W	28.0	33.36	NNE	3
61	14 Jul	1737Z	10°00'N	54°31'W	28.2	---	C	---

LE HAVRE

2 - 14 JULY 1980

LE HAVRE

2 - 14 JULY 1980

XBT Section 6, 27 Jul-7 Aug 80
Esso Le Havre, crossing equator at 37°57'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	27 Jul	1639Z	10°00'N	54°37'W	28.7	35.38	E	2
2	27 Jul	2039Z	09°40'N	54°03'W	29.2	---	ESE	3
3	28 Jul	0035Z	09°20'N	53°30'W	28.6	35.66	E	3
4	28 Jul	0430Z	09°00'N	52°58'W	28.4	---	E	3
5	28 Jul	0820Z	08°40'N	52°22'W	28.8	32.77	E	3
6	28 Jul	0958Z	08°20'N	52°05'W	29.0	---	E	3
7	28 Jul	1435Z	08°00'N	51°32'W	28.9	32.83	ESE	3
8	28 Jul	2036Z	07°40'N	50°40'W	29.2	---	ESE	3
9	29 Jul	0243Z	07°20'N	49°52'W	28.5	32.75	ESE	3
10	29 Jul	0824Z	07°00'N	48°57'W	28.0	---	E	2
11	29 Jul	1155Z	06°40'N	48°29'W	28.6	35.61	E	2
12	29 Jul	1536Z	06°20'N	47°49'W	28.8	---	E	1
13	29 Jul	1930Z	06°00'N	47°02'W	28.6	34.53	E	2
14	29 Jul	2040Z	05°40'N	46°52'W	28.7	---	E	2
15	29 Jul	2317Z	05°20'N	46°43'W	28.5	34.11	E	1
16	30 Jul	0245Z	05°00'N	46°12'W	28.5	---	E	2
17	30 Jul	0628Z	04°40'N	45°41'W	28.7	33.58	ESE	4
18	30 Jul	1025Z	04°20'N	45°05'W	28.4	---	ESE	4
19	30 Jul	1507Z	04°00'N	44°27'W	28.0	35.96	ESE	4
20	30 Jul	2128Z	03°40'N	43°33'W	28.4	---	ESE	3
21	31 Jul	0238Z	03°20'N	42°58'W	28.3	35.96	ESE	4
22	31 Jul	0730Z	03°00'N	42°28'W	28.3	---	ESE	4
23	31 Jul	1140Z	02°40'N	41°55'W	28.3	35.84	ESE	2
24	31 Jul	1504Z	02°20'N	41°40'W	28.4	---	ESE	2
25	31 Jul	2000Z	02°00'N	41°06'W	28.2	36.01	ESE	4
26	1 Aug	0002Z	01°40'N	40°32'W	27.6	---	ESE	4
27	1 Aug	0356Z	01°20'N	40°00'W	27.5	35.98	ESE	5
28	1 Aug	0856Z	01°00'N	39°25'W	27.2	---	ESE	4
29	1 Aug	1237Z	00°40'N	38°56'W	27.4	35.84	ESE	5
30	1 Aug	1730Z	00°20'N	38°30'W	27.3	---	ESE	5
31	1 Aug	2217Z	00°00'	37°57'W	27.1	35.94	SE	5

XBT Section 6, 27 Jul-7 Aug 80
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	2 Aug	0306Z	00°20'S	37°26'W	26.9	---	ESE	5
33	2 Aug	0812Z	00°40'S	36°52'W	26.7	36.07	ESE	5
34	2 Aug	1231Z	01°00'S	36°19'W	26.8	---	ESE	5
35	2 Aug	1724Z	01°20'S	35°50'W	26.7	36.24	SE	5
36	2 Aug	2150Z	01°40'S	35°16'W	26.8	---	ESE	5
37	3 Aug	0235Z	02°00'S	34°39'W	26.8	36.19	ESE	4
38	3 Aug	0817Z	02°20'S	33°59'W	26.8	---	ESE	4
39	3 Aug	1225Z	02°40'S	33°27'W	26.7	35.95	ESE	5
40	3 Aug	1641Z	03°00'S	32°56'W	26.9	---	ESE	5
41	3 Aug	2042Z	03°20'S	32°25'W	26.5	36.07	ESE	5
42	4 Aug	0203Z	03°40'S	31°53'W	26.3	---	ESE	5
43	4 Aug	0634Z	04°00'S	31°24'W	26.2	35.93	SE	5
44	4 Aug	1048Z	04°20'S	30°51'W	26.5	---	SE	5
45	4 Aug	1552Z	04°40'S	30°17'W	26.7	35.98	ESE	6
46	4 Aug	2018Z	05°00'S	29°46'W	26.7	---	SE	5
47	5 Aug	0112Z	05°20'S	29°11'W	26.7	36.13	SE	5
48	5 Aug	0555Z	05°40'S	28°39'W	26.7	---	SE	5
49	5 Aug	1005Z	06°00'S	28°09'W	26.6	36.08	ESE	5
50	5 Aug	1439Z	06°20'S	27°38'W	26.4	---	ESE	5
51	5 Aug	1850Z	06°40'S	27°08'W	26.3	35.98	SE	4
52	5 Aug	2310Z	07°00'S	26°33'W	26.2	---	SE	6
53	6 Aug	0421Z	07°20'S	26°03'W	26.4	36.06	SE	7
54	6 Aug	0828Z	07°40'S	25°35'W	26.2	---	SE	6
55	6 Aug	1252Z	08°00'S	25°02'W	26.5	36.22	ESE	6
56	6 Aug	1630Z	08°20'S	24°31'W	26.3	---	ESE	7
57	6 Aug	2015Z	08°40'S	23°58'W	25.9	36.13	ESE	6
58	6 Aug	2343Z	09°00'S	23°29'W	25.8	---	ESE	6
59	7 Aug	0331Z	09°20'S	22°57'W	26.0	36.36	ESE	6
60	7 Aug	0731Z	09°40'S	22°26'W	26.0	---	ESE	7
61	7 Aug	1114Z	10°00'S	21°52'W	25.8	---	ESE	7

LE HAVRE

27 JULY - 7 AUG 1980

LE HAVRE

27 JULY - 7 AUG 1980

LATITUDE

XBT Section 7, 9-13 Jul 80
Esso Africa, crossing equator at 10°17'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	9 Jul	0005Z	10°00'S	02°12'W	23.6	36.53	SSE	14
2	9 Jul	0145Z	09°40'S	02°25'W	23.5	----	SSE	14
3	9 Jul	0348Z	09°20'S	02°44'W	23.7	36.15	SSE	14
4	9 Jul	0536Z	09°00'S	02°59'W	24.0	----	SSE	15
5	9 Jul	0732Z	08°40'S	03°15'W	24.3	35.89	SSE	15
6	9 Jul	0930Z	08°20'S	03°30'W	24.3	----	SSE	15
7	9 Jul	1058Z	08°00'S	03°45'W	24.2	36.01	SSE	15
8	9 Jul	1252Z	07°40'S	04°01'W	24.3	----	SSE	15
9	9 Jul	1450Z	07°20'S	04°18'W	24.4	35.90	SSE	14
10	9 Jul	1636Z	07°00'S	04°33'W	24.5	----	SSE	15
11	9 Jul	1821Z	06°40'S	04°47'W	24.3	35.66	SSE	15
12	9 Jul	2013Z	06°20'S	05°03'W	24.6	----	SSE	15
13	9 Jul	2204Z	06°00'S	05°22'W	25.0	35.90	SEE	14
14	9 Jul	2345Z	05°40'S	05°40'W	25.0	----	SEE	14
15	10 Jul	0201Z	05°20'S	05°53'W	24.2	35.88	SE	14
16	10 Jul	0400Z	05°00'S	06°08'W	23.9	----	SE	14
17	10 Jul	0550Z	04°40'S	06°25'W	24.0	35.85	SE	14
18	10 Jul	0717Z	04°20'S	06°41'W	24.0	----	SE	14
19	10 Jul	0915Z	04°00'S	07°01'W	24.2	36.01	ESE	12
20	10 Jul	1055Z	03°40'S	07°18'W	24.4	----	ESE	12
21	10 Jul	1250Z	03°20'S	07°35'W	23.5	35.64	SE	12
22	10 Jul	1440Z	03°00'S	07°48'W	23.2	----	SE	5
23	10 Jul	1634Z	02°40'S	08°05'W	23.1	35.23	NNE	7
24	10 Jul	1835Z	02°20'S	08°24'W	23.0	----	NNE	7
25	10 Jul	2040Z	02°00'S	08°47'W	22.8	35.56	NNE	7
26	10 Jul	2240Z	01°40'S	09°02'W	22.7	----	NNE	7
27	11 Jul	0020Z	01°20'S	09°14'W	23.1	36.06	NNE	7
28	11 Jul	0220Z	01°00'S	09°35'W	22.8	----	NNE	7
29	11 Jul	0405Z	00°40'S	09°47'W	22.7	36.27	NNE	7
30	11 Jul	0555Z	00°20'S	10°02'W	22.7	----	NE	7
31	11 Jul	0740Z	00°00'	10°17'W	22.7	36.05	NE	4

XBT Section 7, 9-13 Jul 80
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	11 Jul	0930Z	00°20'N	10°30'W	22.9	----	SE	12
33	11 Jul	1105Z	00°40'N	10°45'W	23.1	35.97	SE	15
34	11 Jul	1250Z	01°00'N	11°02'W	23.1	----	S	15
35	11 Jul	1425Z	01°20'N	11°18'W	23.2	35.25	S	15
36	11 Jul	1605Z	01°40'N	11°35'W	23.1	----	S	14
37	11 Jul	1750Z	02°00'N	11°52'W	23.2	35.57	S	14
38	11 Jul	1920Z	02°20'N	12°08'W	23.9	----	SSE	10
39	11 Jul	2050Z	02°40'N	12°26'W	24.8	35.23	SSE	10
40	11 Jul	2245Z	03°00'N	12°48'W	25.6	----	SSE	10
41	12 Jul	0030Z	03°20'N	13°06'W	25.4	35.27	ESE	10
42	12 Jul	0230Z	03°40'N	13°24'W	25.3	----	ESE	10
43	12 Jul	0430Z	04°00'N	13°38'W	25.2	35.32	SE	10
44	12 Jul	0630Z	04°20'N	13°55'W	26.1	----	SSE	15
45	12 Jul	0825Z	04°40'N	14°12'W	27.0	35.44	SSE	17
46	12 Jul	1010Z	05°00'N	14°26'W	27.0	----	SSE	16
46a	12 Jul	1045Z	05°08'N	14°29'W	27.1	35.39	----	----
47	12 Jul	1200Z	05°20'N	14°40'W	27.3	----	S	16
48	12 Jul	1345Z	05°40'N	14°47'W	27.4	35.57	S	16
49	12 Jul	1540Z	06°00'N	15°14'W	28.3	----	S	16
50	12 Jul	1730Z	06°20'N	15°20'W	27.2	35.17	S	16
51	12 Jul	1910Z	06°40'N	15°33'W	27.4	----	S	16
52	12 Jul	2050Z	07°00'N	15°58'W	27.4	34.85	S	14
53	12 Jul	2235Z	07°20'N	16°05'W	27.2	----	S	14
54	13 Jul	0030Z	07°40'N	16°17'W	27.5	34.92	S	10
55	13 Jul	0215Z	08°00'N	16°30'W	27.4	----	S	10
56	13 Jul	0400Z	08°20'N	16°44'W	27.5	34.73	S	10
57	13 Jul	0545Z	08°40'N	16°57'W	27.6	----	S	11
58	13 Jul	0714Z	09°00'N	17°14'W	27.7	35.00	SSW	14
59	13 Jul	0930Z	09°20'N	17°30'W	27.5	----	WSW	12
60	13 Jul	1115Z	09°40'N	17°45'W	27.8	35.29	WSW	12
61	13 Jul	1315Z	10°00'N	17°58'W	27.9	----	WSW	12

ESSO AFRICA

9 - 13 JULY 1980

ESSO AFRICA

9 - 13 JULY 1980

XBT Section 8, 22-29 Sep 80
Esso Indonesia, crossing equator at 37°45'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	22 Sep	1521Z	10°00'S	23°19'W	25.6	---	ESE	15
2	22 Sep	1758Z	09°40'S	23°43'W	25.6	---	ESE	13
3	22 Sep	2035Z	09°20'S	24°10'W	25.4	---	ESE	13
4	22 Sep	2308Z	09°00'S	24°36'W	25.5	---	ESE	15
5	23 Sep	0142Z	08°40'S	25°00'W	25.0	---	ESE	15
6	23 Sep	0411Z	08°20'S	25°24'W	25.4	---	ESE	15
7	23 Sep	0651Z	08°00'S	25°50'W	25.2	---	SSE	14
8	23 Sep	0928Z	07°40'S	26°14'W	25.7	---	ESE	14
9	23 Sep	1210Z	07°20'S	26°40'W	25.4	---	E	14
10	23 Sep	1450Z	07°00'S	27°06'W	25.6	---	SE	15
11	23 Sep	1722Z	06°40'S	27°32'W	25.6	---	SE	15
12	23 Sep	2000Z	06°20'S	27°57'W	25.5	---	SE	15
13	23 Sep	2222Z	06°00'S	28°20'W	25.9	---	ESE	17
14	24 Sep	0106Z	05°40'S	28°51'W	26.0	---	ESE	17
15	24 Sep	0324Z	05°20'S	29°08'W	26.1	---	ESE	14
16	24 Sep	0601Z	05°00'S	29°34'W	26.1	---	SE	15
17	24 Sep	0844Z	04°40'S	30°00'W	26.1	---	ESE	15
18	24 Sep	1142Z	04°20'S	30°30'W	26.1	---	ESE	15
19	24 Sep	1433Z	04°00'S	31°02'W	26.2	---	ESE	15
20	24 Sep	1732Z	03°40'S	31°36'W	26.2	---	ESE	14
21	24 Sep	2015Z	03°20'S	32°10'W	26.1	---	ESE	15
22	24 Sep	2306Z	03°00'S	32°46'W	26.4	---	ESE	15
23	25 Sep	0152Z	02°40'S	33°21'W	26.3	---	ESE	14
24	25 Sep	0441Z	02°20'S	33°58'W	26.4	---	ESE	5
25	25 Sep	0754Z	02°00'S	34°32'W	26.5	---	SE	13
26	25 Sep	1048Z	01°40'S	35°04'W	26.5	---	SE	14
27	25 Sep	1341Z	01°20'S	35°38'W	26.7	---	ESE	14
28	25 Sep	1630Z	01°00'S	36°09'W	26.8	---	ESE	15
29	25 Sep	1715Z	00°40'S	36°42'W	26.9	---	ESE	15
30	25 Sep	2211Z	00°20'S	37°14'W	26.8	---	ESE	14
31	26 Sep	0048Z	00°00'	37°45'W	27.3	---	ESE	14

XBT Section 8, 22-29 Sep 80
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	26 Sep	0339Z	00°20'N	38°19'W	27.5	---	ESE	14
33	26 Sep	0628Z	00°40'N	38°39'W	27.8	---	ESE	14
34	26 Sep	0916Z	01°00'N	39°27'W	27.9	---	ESE	14
35	26 Sep	1200Z	01°20'N	39°60'W	28.0	---	ESE	14
36	26 Sep	1448Z	01°40'N	40°33'W	28.2	---	ESE	11
37	26 Sep	1722Z	02°00'N	41°05'W	28.5	---	ESE	11
38	26 Sep	2031Z	02°20'N	41°43'W	28.5	---	N	10
39	26 Sep	2310Z	02°40'N	42°15'W	28.5	---	NE	12
40	27 Sep	0143Z	03°00'N	42°46'W	28.4	---	NE	10
41	27 Sep	0434Z	03°20'N	43°21'W	28.4	---	E	9
42	27 Sep	0725Z	03°40'N	43°54'W	28.2	---	E	9
43	27 Sep	1008Z	04°00'N	44°26'W	28.3	---	E	12
44	27 Sep	1243Z	04°20'N	44°58'W	28.4	---	E	10
45	27 Sep	1526Z	04°40'N	45°31'W	28.6	---	E	10
46	27 Sep	1815Z	05°00'N	46°58'W	28.7	---	E	10
47	27 Sep	2118Z	05°20'N	46°37'W	28.9	---	E	10
48	28 Sep	0110Z	05°40'N	47°21'W	29.1	---	E	10
49	28 Sep	0408Z	06°00'N	47°47'W	29.0	---	ESE	12
50	28 Sep	0730Z	06°20'N	48°22'W	29.5	---	ESE	12
51	28 Sep	1018Z	06°40'N	48°56'W	29.5	---	ESE	12
52	28 Sep	1312Z	07°00'N	49°28'W	28.1	---	ESE	13
53	28 Sep	1634Z	07°20'N	50°07'W	28.9	---	SSE	6
54	28 Sep	1936Z	07°40'N	50°41'W	28.8	---	ESE	13
55	28 Sep	2216Z	08°00'N	51°10'W	28.9	---	E	5
56	29 Sep	0114Z	08°20'N	51°43'W	28.8	---	SE	10
57	29 Sep	0318Z	08°40'N	52°08'W	28.7	---	SE	11
58	29 Sep	0639Z	09°00'N	52°47'W	29.0	---	SE	11
59	29 Sep	0932Z	09°20'N	53°04'W	29.0	---	SE	10
60	29 Sep	1230Z	09°40'N	53°24'W	29.0	---	SE	10
61	29 Sep	1451Z	10°00'N	54°30'W	29.2	---	SE	10

ESSO INDONESIA

22 - 29 SEPT 1980

ESSO INDONESIA

22 - 29 SEPT 1980

XBT Section 9, 12-17 Oct 80
Esso A1 Duriyah, crossing equator at 09°56'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
3	12 Oct	1220Z	09°20'S	02°41'W	22.4	---	S	7
4	12 Oct	1408Z	09°00'S	02°57'W	22.5	35.98	S	7
5	12 Oct	1645Z	08°40'S	03°11'W	22.5	---	S	7
6	12 Oct	1755Z	08°20'S	03°27'W	22.6	35.93	S	8
7	12 Oct	1945Z	08°00'S	03°45'W	22.6	---	S	8
8	12 Oct	2135Z	07°40'S	04°00'W	22.8	35.77	S	8
9	12 Oct	2330Z	07°20'S	04°15'W	22.8	---	S	8
10	13 Oct	0115Z	07°00'S	04°30'W	23.0	35.81	S	7
11	13 Oct	0318Z	06°40'S	04°47'W	23.1	---	S	7
12	13 Oct	0515Z	06°20'S	05°03'W	23.0	35.92	S	7
13	13 Oct	0730Z	06°00'S	05°22'W	23.2	---	S	7
14	13 Oct	0910Z	05°40'S	05°34'W	23.5	35.90	S	7
15	13 Oct	1115Z	05°20'S	05°50'W	23.8	---	S	---
16	13 Oct	1300Z	05°00'S	06°03'W	23.8	35.48	S	2
17	13 Oct	1507Z	04°40'S	06°19'W	24.2	---	S	2
18	13 Oct	1715Z	04°20'S	06°37'W	24.3	35.76	S	3
19	13 Oct	1930Z	04°00'S	06°55'W	24.4	---	S	3
20	13 Oct	2120Z	03°40'S	07°10'W	24.4	35.83	S	2
21	13 Oct	2300Z	03°20'S	07°25'W	24.6	---	S	2
22	14 Oct	0030Z	03°00'S	07°41'W	24.6	35.89	S	3
23	14 Oct	0220Z	02°40'S	07°57'W	24.4	---	S	10
24	14 Oct	0408Z	02°20'S	08°13'W	24.3	35.90	SSW	13
25	14 Oct	0600Z	02°00'S	08°29'W	24.2	---	SW	17
26	14 Oct	0746Z	01°40'S	08°45'W	24.2	35.93	SW	16
27	14 Oct	0940Z	01°20'S	09°00'W	24.2	---	SW	10
28	14 Oct	1135Z	01°00'S	09°14'W	24.4	35.94	SW	13
29	14 Oct	1337Z	00°40'S	09°32'W	24.5	---	SW	7
30	14 Oct	1543Z	00°20'S	09°43'W	24.6	35.98	SW	6
31	14 Oct	1737Z	00°00'	09°56'W	24.8	---	SW	6
32	14 Oct	1938Z	00°20'N	10°12'W	25.2	35.82	SW	8
33	14 Oct	2130Z	00°40'N	10°28'W	25.5	---	SW	10

XBT Section 9, 12-17 Oct 80
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
34	14 Oct	2320Z	01°00'N	10°48'W	25.7	35.80	SW	11
35	15 Oct	0127Z	01°20'N	11°07'W	25.6	---	SW	11
36	15 Oct	0250Z	01°40'N	11°22'W	25.5	35.84	SW	14
37	15 Oct	0410Z	02°00'N	11°25'W	26.1	---	SW	14
38	15 Oct	0535Z	02°20'N	11°38'W	26.8	35.57	SSW	10
39	15 Oct	0720Z	02°40'N	11°54'W	27.2	---	SSW	11
40	15 Oct	0930Z	03°00'N	12°13'W	27.4	35.11	SW	10
41	15 Oct	1150Z	03°20'N	12°29'W	27.7	---	SW	8
42	15 Oct	1330Z	03°40'N	12°40'W	27.7	35.01	SW	8
43	15 Oct	1542Z	04°00'N	12°56'W	28.0	---	SSW	10
44	15 Oct	1832Z	04°20'N	13°12'W	27.9	34.67	SSW	10
45	15 Oct	2025Z	04°40'N	13°30'W	27.9	---	NW	10
46	15 Oct	2215Z	05°00'N	13°48'W	27.9	34.70	W	12
47	15 Oct	2350Z	05°20'N	14°03'W	28.1	---	WSW	12
48	16 Oct	0135Z	05°40'N	14°18'W	28.1	34.90	WSW	13
49	16 Oct	0323Z	06°00'N	14°35'W	28.1	---	SW	14
50	16 Oct	0522Z	06°20'N	14°51'W	28.2	34.73	SW	9
51	16 Oct	0708Z	06°40'N	15°06'W	28.1	---	NW	3
52	16 Oct	0930Z	07°00'N	15°26'W	28.2	35.06	NW	4
53	16 Oct	1050Z	07°20'N	15°43'W	28.6	---	NW	5
54	16 Oct	1235Z	07°40'N	15°55'W	28.7	33.69	NW	2
55	16 Oct	1415Z	08°00'N	16°13'W	29.5	---	NW	2
56	16 Oct	1554Z	08°20'N	16°30'W	29.0	33.21	NW	2
57	16 Oct	1730Z	08°40'N	16°51'W	29.1	---	NW	3
58	16 Oct	1812Z	09°00'N	17°09'W	29.3	32.22	C	---
59	16 Oct	2115Z	09°20'N	17°26'W	28.7	---	NW	3
60	16 Oct	2310Z	09°40'N	17°43'W	28.7	33.50	NW	4
61	17 Oct	0040Z	10°00'N	18°00'W	29.0	---	N	4

AL DURIYAH

12-17 OCT 1980

LATITUDE

AL DURIYAH

12-17 OCT 1980

XBT Section 10, 16-21 Nov 80
Esso Al Duriyah, crossing equator at 10°25'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	16 Nov	1140Z	10°00'N	18°05'W	28.5	35.17	NE	3
2	16 Nov	1355Z	09°40'N	17°51'W	28.8	---	NE	3
3	16 Nov	1550Z	09°20'N	17°37'W	28.7	34.81	SSE	15
4	16 Nov	1545Z	09°00'N	17°24'W	29.0	---	SE	22
5	16 Nov	2000Z	08°40'N	17°07'W	28.7	34.80	SE	18
6	16 Nov	2200Z	08°20'N	16°51'W	28.7	---	SSW	7
7	17 Nov	0020Z	08°00'N	16°32'W	28.4	34.66	ENE	12
8	17 Nov	0240Z	07°40'N	16°15'W	28.3	---	ENE	14
9	17 Nov	0440Z	07°20'N	16°00'W	28.4	34.27	SE	2
10	17 Nov	0700Z	07°00'N	15°43'W	28.2	---	C	---
11	17 Nov	0900Z	06°40'N	15°28'W	28.3	34.53	ENE	2
12	17 Nov	1105Z	06°20'N	15°11'W	28.2	---	ENE	3
13	17 Nov	1320Z	06°00'N	14°53'W	28.2	35.11	N	4
14	17 Nov	1520Z	05°40'N	14°39'W	28.2	---	N	6
15	17 Nov	1725Z	05°20'N	14°23'W	28.1	35.31	NE	3
16	17 Nov	1915Z	05°00'N	14°07'W	28.2	---	C	55
17	17 Nov	2130Z	04°40'N	13°51'W	28.2	35.71	C	---
18	17 Nov	2330Z	04°20'N	13°36'W	28.1	---	C	---
19	18 Nov	0130Z	04°00'N	13°17'W	28.0	35.68	C	---
20	18 Nov	0325Z	03°40'N	13°03'W	27.8	---	C	---
21	18 Nov	0515Z	03°20'N	12°48'W	27.8	35.86	SE	10
22	18 Nov	0715Z	03°00'N	12°33'W	27.6	---	SE	10
23	18 Nov	0920Z	02°40'N	12°18'W	27.1	35.89	SE	10
24	18 Nov	1125Z	02°20'N	12°02'W	27.1	---	SE	10
25	18 Nov	1330Z	02°00'N	11°46'W	26.9	35.88	SE	10
26	18 Nov	1535Z	01°40'N	11°31'W	25.6	---	SE	10
27	18 Nov	1750Z	01°20'N	11°17'W	25.6	35.98	SE	10
28	18 Nov	2005Z	01°00'N	11°05'W	25.5	---	SSE	13
29	18 Nov	2215Z	00°40'N	10°47'W	25.4	36.01	SSE	15
30	19 Nov	0035Z	00°20'N	10°38'W	25.3	---	SSE	15
31	19 Nov	0240Z	00°00'	10°25'W	25.2	36.01	SSE	12

XBT Section 10, 16-21 Nov 80
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	19 Nov	0445Z	00°20'S	10°12'W	25.0	---	SSE	12
33	19 Nov	0710Z	00°40'S	09°51'W	24.6	35.85	SSE	13
34	19 Nov	0925Z	01°00'S	09°40'W	24.7	---	SSE	12
35	19 Nov	1125Z	01°20'S	09°20'W	24.7	35.93	SSE	14
36	19 Nov	1330Z	01°40'S	09°08'W	24.9	---	SSE	14
37	19 Nov	1545Z	02°00'S	08°48'W	25.1	35.91	SSE	14
38	19 Nov	1810Z	02°20'S	08°25'W	25.1	---	SSE	13
39	19 Nov	2025Z	02°40'S	08°09'W	25.1	35.93	SSE	13
40	19 Nov	2235Z	03°00'S	07°53'W	25.1	---	SSE	15
41	20 Nov	0110Z	03°20'S	07°35'W	25.0	35.92	SE	20
42	20 Nov	0335Z	03°40'S	07°17'W	24.5	---	SE	18
43	20 Nov	0540Z	04°00'S	07°03'W	24.4	36.03	SE	15
44	20 Nov	0748Z	04°20'S	06°45'W	24.3	---	SE	18
45	20 Nov	1000Z	04°40'S	06°32'W	24.1	36.08	SE	15
46	20 Nov	1215Z	05°00'S	06°14'W	24.3	---	SE	17
47	20 Nov	1445Z	05°20'S	05°58'W	24.4	36.11	SE	17
48	20 Nov	1700Z	05°40'S	05°41'W	24.1	---	SE	13
49	20 Nov	1925Z	06°00'S	05°30'W	24.0	36.25	SE	13
50	20 Nov	2115Z	06°20'S	05°14'W	23.8	---	SE	13
51	20 Nov	2310Z	06°40'S	05°03'W	23.8	36.07	SE	15
52	21 Nov	0210Z	07°00'S	04°40'W	23.6	---	E	17
53	21 Nov	0425Z	07°20'S	04°25'W	23.4	36.38	E	17
54	21 Nov	0625Z	07°40'S	04°12'W	23.4	---	SE	16
55	21 Nov	0840Z	08°00'S	03°56'W	23.0	36.39	ESE	17
56	21 Nov	1100Z	08°20'S	03°40'W	23.0	---	ESE	18
57	21 Nov	1335Z	08°40'S	03°25'W	22.9	36.38	ESE	20
58	21 Nov	1605Z	09°00'S	03°09'W	22.9	---	ESE	20
59	21 Nov	1820Z	09°20'S	02°54'W	22.6	36.38	SE	19
60	21 Nov	2030Z	09°40'S	02°35'W	22.4	---	ESE	18
61	21 Nov	2235Z	10°00'S	02°20'W	22.5	36.41	ESE	18

AL DURIYAH

16-21 NOV 1980

LATITUDE

AL DURIYAH

16 - 21 NOV 1980

LATITUDE

XBT Section 11, 19-23 Feb 81
S.A. Constantia, crossing equator at 38°58'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	19 Feb	0508Z	10°00'S	23°06'W	26.4	----	ESE	20
2	19 Feb	0659Z	09°40'S	23°36'W	----	36.69	ESE	20
3	19 Feb	0855Z	09°20'S	24°07'W	26.0	----	ESE	20
4	19 Feb	0958Z	09°00'S	24°39'W	26.5	36.77	ESE	20
5	19 Feb	1157Z	08°40'S	25°16'W	26.7	----	ESE	20
6	19 Feb	1340Z	08°20'S	25°41'W	27.0	36.61	ESE	20
7	19 Feb	1535Z	08°00'S	26°10'W	27.1	----	ESE	25
8	19 Feb	1818Z	07°40'S	26°42'W	27.2	36.49	SSE	25
9	19 Feb	2007Z	07°20'S	27°12'W	27.2	----	SE	25
10	19 Feb	2058Z	07°00'S	27°42'W	27.1	36.43	SE	25
11	20 Feb	0004Z	06°40'S	28°15'W	27.2	----	ESE	20
12	20 Feb	0155Z	06°20'S	28°46'W	----	36.31	ESE	20
13	20 Feb	0353Z	06°00'S	29°22'W	27.3	----	ESE	20
14	20 Feb	0550Z	05°40'S	29°55'W	27.3	36.39	ESE	25
15	20 Feb	0746Z	05°20'S	30°27'W	27.1	----	ESE	25
16	20 Feb	0949Z	05°00'S	31°04'W	27.3	36.43	ESE	25
17	20 Feb	1148Z	04°40'S	31°36'W	27.3	----	ESE	25
18	20 Feb	1320Z	04°20'S	31°59'W	27.4	36.32	ESE	25
19	20 Feb	1522Z	04°00'S	32°29'W	27.4	----	ESE	25
20	20 Feb	1705Z	03°40'S	33°05'W	27.6	36.42	ESE	25
21	20 Feb	1849Z	03°20'S	33°25'W	27.5	----	SE	25
22	20 Feb	2054Z	03°00'S	34°04'W	27.3	36.35	SE	25
23	20 Feb	2253Z	02°40'S	34°40'W	27.4	----	SE	25
24	21 Feb	0045Z	02°20'S	35°11'W	27.6	36.31	SE	25
25	21 Feb	0250Z	02°00'S	35°45'W	27.4	----	SE	25
26	21 Feb	0445Z	01°40'S	36°18'W	27.5	36.23	SE	25
27	21 Feb	0631Z	01°20'S	36°50'W	27.3	----	SE	25
28	21 Feb	0825Z	01°00'S	37°22'W	26.8	36.14	SE	25
29	21 Feb	1013Z	00°40'S	37°51'W	27.1	----	SE	25
30	21 Feb	1224Z	00°20'S	38°29'W	27.3	36.49	SE	20
31	21 Feb	1406Z	00°00'	38°58'W	27.0	----	SE	20

XBT Section 11, 19-23 Feb 81
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	21 Feb	1555Z	00°20'N	39°24'W	27.3	36.34	SE	20
33	21 Feb	1735Z	00°40'N	39°53'W	27.5	---	SE	20
34	21 Feb	1927Z	01°00'N	40°21'W	27.6	36.49	SE	20
35	21 Feb	2115Z	01°20'N	40°50'W	27.6	---	SE	20
36	21 Feb	2342Z	01°40'N	41°30'W	27.5	35.91	SE	20
37	22 Feb	0126Z	02°00'N	41°56'W	27.7	---	NE	20
38	22 Feb	0330Z	02°20'N	42°27'W	27.5	35.88	NE	20
39	22 Feb	0520Z	02°40'N	42°59'W	---	---	NE	20
40	22 Feb	0703Z	03°00'N	43°29'W	27.5	35.90	ESE	20
41	22 Feb	0909Z	03°20'N	44°04'W	27.4	---	ESE	20
42	22 Feb	1135Z	03°40'N	44°46'W	27.4	36.09	ESE	20
43	22 Feb	1325Z	04°00'N	45°15'W	27.4	---	ESE	20
44	22 Feb	1523Z	04°20'N	45°48'W	27.6	35.93	E	25
45	22 Feb	1715Z	04°40'N	46°20'W	27.7	---	E	25
46	22 Feb	1914Z	05°00'N	46°47'W	27.7	36.03	E	25
47	22 Feb	2119Z	05°20'N	47°23'W	27.7	---	E	25
48	22 Feb	2304Z	05°40'N	47°51'W	27.4	36.10	E	20
49	23 Feb	0047Z	06°00'N	48°19'W	27.2	---	E	20
50	23 Feb	0300Z	06°20'N	48°49'W	27.0	36.16	E	20
51	23 Feb	0500Z	06°40'N	49°17'W	26.8	---	E	20
52	23 Feb	0708Z	07°00'N	49°50'W	27.2	36.28	E	20
53	23 Feb	0916Z	07°20'N	50°22'W	26.7	---	E	20
54	23 Feb	1200Z	07°40'N	51°10'W	27.2	36.14	E	20
55	23 Feb	1327Z	08°00'N	51°33'W	27.3	---	E	20
56	23 Feb	1515Z	08°20'N	52°03'W	27.3	36.17	E	20
57	23 Feb	1653Z	08°40'N	52°32'W	27.7	---	E	20
58	23 Feb	1836Z	09°00'N	53°00'W	27.9	29.73	E	20
59	23 Feb	2035Z	09°20'N	53°32'W	27.6	---	E	20
60	23 Feb	2156Z	09°40'N	53°50'W	27.5	34.17	E	20
61	23 Feb	2335Z	10°00'N	54°14'W	27.5	---	E	20

XBT Section 12, 5-10 Apr 81
S.A. Constantia, crossing equator at 24°05'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	5 Apr	1114Z	10°00'N	35°55'W	25.7	----	E	38
2	5 Apr	1249Z	09°40'N	35°33'W	25.9	36.30	ENE	40
3	5 Apr	1440Z	09°20'N	35°06'W	26.1	----	ENE	40
4	5 Apr	1621Z	09°00'N	34°43'W	26.1	----	ENE	40
5	5 Apr	1753Z	08°40'N	34°23'W	26.0	36.23	ENE	40
6	5 Apr	1931Z	08°20'N	34°03'W	26.7	----	ENE	40
7	5 Apr	2119Z	08°00'N	33°33'W	26.8	36.10	ENE	30
8	5 Apr	2200Z	07°40'N	33°06'W	27.0	----	ENE	30
9	6 Apr	0040Z	07°20'N	32°45'W	26.8	36.19	ENE	30
10	6 Apr	0229Z	07°00'N	32°20'W	27.0	----	ENE	30
11	6 Apr	0412Z	06°40'N	31°56'W	26.7	36.22	ENE	30
12	6 Apr	0532Z	06°20'N	31°36'W	26.8	----	ENE	27
13	6 Apr	0717Z	06°00'N	31°11'W	26.8	36.32	ENE	27
14	6 Apr	0847Z	05°40'N	30°50'W	27.4	----	ENE	27
15	6 Apr	1023Z	05°20'N	30°27'W	27.7	35.94	NE	30
16	6 Apr	1240Z	05°00'N	30°03'W	27.7	----	NE	30
17	6 Apr	1350Z	04°40'N	29°39'W	----	35.93	NE	30
18	6 Apr	1528Z	04°20'N	29°16'W	28.0	----	NNE	30
19	6 Apr	1710Z	04°00'N	28°52'W	28.1	35.93	NNE	30
20	6 Apr	1845Z	03°40'N	28°30'W	28.7	----	ESE	25
21	6 Apr	2025Z	03°20'N	28°06'W	28.2	35.75	ESE	25
22	6 Apr	2210Z	03°00'N	27°43'W	28.2	----	ENE	35
23	7 Apr	0010Z	02°40'N	27°14'W	----	35.85	ENE	35
24	7 Apr	0145Z	02°20'N	26°53'W	28.0	----	ENE	35
25	7 Apr	0323Z	02°00'N	26°26'W	27.9	36.01	ENE	35
26	7 Apr	0510Z	01°40'N	26°03'W	27.7	----	ENE	35
27	7 Apr	0655Z	01°20'N	25°37'W	27.7	36.16	ESE	20
28	7 Apr	0847Z	01°00'N	25°13'W	27.8	----	ESE	35
29	7 Apr	1016Z	00°40'N	24°52'W	27.7	36.16	ESE	35
30	7 Apr	1200Z	00°20'N	24°28'W	----	----	ESE	35
31	7 Apr	1335Z	00°00	24°05'W	28.5	36.19	ESE	35

XBT Section 12, 5-10 Apr 81
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	7 Apr	1537Z	00°20'S	23°38'W	28.1	---	ESE	35
33	7 Apr	1722Z	00°40'S	23°14'W	28.0	36.26	ESE	35
34	7 Apr	1844Z	01°00'S	22°48'W	27.6	---	ESE	35
35	7 Apr	2050Z	01°20'S	22°22'W	27.5	36.31	ESE	35
36	7 Apr	2230Z	01°40'S	22°00'W	27.6	---	ESE	35
37	7 Apr	2355Z	02°00'S	21°49'W	27.6	35.88	ESE	35
38	8 Apr	0204Z	02°20'S	21°14'W	27.8	---	ESE	35
39	8 Apr	0349Z	02°40'S	20°49'W	27.6	36.31	ESE	35
40	8 Apr	0520Z	03°00'S	20°30'W	27.5	---	SSE	26
41	8 Apr	0714Z	03°20'S	20°03'W	27.4	36.01	SSE	26
42	8 Apr	0840Z	03°40'S	19°43'W	27.4	---	SSE	26
43	8 Apr	1015Z	04°00'S	19°25'W	27.4	35.99	SSE	30
44	8 Apr	1150Z	04°20'S	19°04'W	27.4	---	SSE	35
45	8 Apr	1357Z	04°40'S	18°42'W	27.5	35.96	SSE	45
46	8 Apr	1602Z	05°00'S	18°13'W	27.6	---	SSE	45
47	8 Apr	1704Z	05°20'S	17°53'W	27.5	36.03	SSE	40
48	8 Apr	1939Z	05°40'S	17°28'W	27.5	---	SSE	38
49	8 Apr	2110Z	06°00'S	17°08'W	27.4	35.83	SSE	38
50	9 Apr	0030Z	06°20'S	16°50'W	---	---	SSE	38
51	9 Apr	0203Z	06°40'S	16°28'W	27.2	36.04	SSE	38
52	9 Apr	0353Z	07°00'S	16°04'W	27.3	---	SSE	38
53	9 Apr	0552Z	07°20'S	15°34'W	27.1	36.14	SSE	38
54	9 Apr	0816Z	07°40'S	15°00'W	26.8	---	NE	38
55	9 Apr	1215Z	08°00'S	14°30'W	26.8	36.35	NE	40
56	9 Apr	1501Z	08°20'S	14°00'W	26.8	---	NE	44
57	9 Apr	1751Z	08°40'S	13°40'W	26.5	36.44	NE	40
58	9 Apr	1925Z	09°00'S	13°10'W	26.4	---	SE	40
59	9 Apr	2116Z	09°20'S	12°50'W	26.3	34.92	SE	40
60	9 Apr	2255Z	09°40'S	12°32'W	26.3	---	SE	40
61	10 Apr	0035Z	10°00'S	12°10'W	26.5	34.70	SE	40

XBT Section 13, 7-14 Apr 81
Esso Osaka, crossing equator at 10°13'W

(bucket temp.)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	7 Apr	0410Z	10°00'S	2°24'W	26.0	---	---	---
2	7 Apr	0730Z	9°40'S	2°39'W	26.0	---	---	---
3	7 Apr	1100Z	9°20'S	2°55'W	28.0	---	---	---
4	7 Apr	1430Z	9°00'S	3°13'W	26.5	---	---	---
5	7 Apr	1900Z	8°40'S	3°30'W	26.5	---	---	---
6	7 Apr	2116Z	8°20'S	3°47'W	25.3	---	---	---
7	8 Apr	0050Z	8°00'S	4°01'W	25.4	---	---	---
8	8 Apr	0400Z	7°40'S	4°17'W	25.0	---	---	---
9	8 Apr	0730Z	7°20'S	4°35'W	25.4	---	---	---
10	8 Apr	1056Z	7°00'S	4°51'W	25.0	---	---	---
11	8 Apr	1411Z	6°40'S	5°06'W	25.5	---	---	---
12	8 Apr	1740Z	6°20'S	5°20'W	27.0	---	---	---
13	8 Apr	2053Z	6°00'S	5°34'W	28.0	---	---	---
14	9 Apr	0020Z	5°40'S	5°51'W	27.0	---	---	---
15	9 Apr	0354Z	5°20'S	6°01'W	27.5	---	---	---
16	9 Apr	0726Z	5°00'S	6°25'W	27.5	---	---	---
17	9 Apr	1058Z	4°40'S	6°41'W	27.8	---	---	---
18	9 Apr	1416Z	4°20'S	6°56'W	28.0	---	---	---
19	9 Apr	1743Z	4°00'S	7°10'W	28.0	---	---	---
20	9 Apr	2103Z	3°40'S	7°25'W	28.0	---	---	---
21	10 Apr	0029Z	3°20'S	7°42'W	28.0	---	---	---
22	10 Apr	0355Z	3°00'S	7°57'W	27.0	---	---	---
23	10 Apr	0708Z	2°40'S	8°12'W	27.0	---	---	---
24	10 Apr	1008Z	2°20'S	8°25'W	27.5	---	---	---
25	10 Apr	1350Z	2°00'S	8°42'W	27.8	---	---	---
26	10 Apr	1655Z	1°40'S	8°57'W	28.0	---	---	---
27	10 Apr	2005Z	1°20'S	9°12'W	27.5	---	---	---
28	10 Apr	2250Z	1°00'S	9°25'W	27.0	---	---	---
29	11 Apr	0205Z	0°40'S	9°40'W	28.0	---	---	---
30	11 Apr	0532Z	0°20'S	9°55'W	27.0	---	---	---
31	11 Apr	0835Z	0°00	10°13'W	27.0	---	---	---

XBT Section 13, 7-14 Apr 81
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	11 Apr	1124Z	0°20'N	10°28'W	28.0	---	---	---
33	11 Apr	1404Z	0°40'N	10°45'W	27.0	---	---	---
34	11 Apr	1641Z	1°00'N	11°01'W	28.0	---	---	---
35	11 Apr	1927Z	1°20'N	11°18'W	29.0	---	---	---
36	11 Apr	2159Z	1°40'N	11°33'W	29.0	---	---	---
37	12 Apr	0033Z	2°00'N	11°47'W	28.0	---	---	---
38	12 Apr	0311Z	2°20'N	12°02'W	28.0	---	---	---
39	12 Apr	0550Z	2°40'N	12°14'W	29.0	---	---	---
40	12 Apr	0829Z	3°00'N	12°25'W	29.0	---	---	---
41	12 Apr	-----	3°20'N	12°41'W	29.5	---	---	---
42	12 Apr	1401Z	3°40'N	12°57'W	29.0	---	---	---
43	12 Apr	1650Z	4°00'N	13°10'W	30.0	---	---	---
44	12 Apr	1946Z	4°20'N	13°26'W	30.0	---	---	---
45	12 Apr	2243Z	4°40'N	13°43'W	30.0	---	---	---
46	13 Apr	0139Z	5°00'N	14°02'W	30.0	---	---	---
47	13 Apr	0440Z	5°20'N	14°18'W	28.4	---	---	---
48	13 Apr	0748Z	5°40'N	14°35'W	29.0	---	---	---
49	13 Apr	1042Z	6°00'N	14°52'W	29.0	---	---	---
50	13 Apr	1330Z	6°20'N	15°08'W	29.0	---	---	---
51	13 Apr	1605Z	6°40'N	15°27'W	29.0	---	---	---
52	13 Apr	1845Z	7°00'N	15°45'W	29.0	---	---	---
53	13 Apr	2113Z	7°20'N	16°01'W	28.0	---	---	---
54	13 Apr	2342Z	7°40'N	16°18'W	29.5	---	---	---
55	14 Apr	0207Z	8°00'N	16°32'W	29.5	---	---	---
56	14 Apr	0427Z	8°20'N	16°48'W	28.0	---	---	---
57	14 Apr	0659Z	8°40'N	17°05'W	28.5	---	---	---
58	14 Apr	0938Z	9°00'N	17°18'W	28.0	---	---	---
59	14 Apr	1203Z	9°20'N	17°32'W	26.6	---	---	---
60	14 Apr	1408Z	9°40'N	17°47'W	28.4	---	---	---
61	14 Apr	1608Z	10°00'N	18°00'W	29.6	---	---	---

XBT Section 14, 15-19 May 81
S.A. Constantia, crossing equator at 43°54'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	15 May	1600Z	10°00'S	27°05'W	27.0	---	ESE	12
2	15 May	1800Z	09°40'S	27°40'W	27.1	36.69	ESE	12
3	15 May	1945Z	09°20'S	28°13'W	26.9	---	ESE	12
4	15 May	2135Z	09°00'S	28°42'W	27.3	35.90	ESE	12
5	15 May	2330Z	08°40'S	29°10'W	27.5	---	ESE	12
6	16 May	0116Z	08°20'S	29°47'W	27.2	35.48	ESE	12
7	16 May	0315Z	08°00'S	30°22'W	27.6	---	ESE	12
8	16 May	0510Z	07°40'S	30°54'W	27.6	36.14	ESE	12
9	16 May	0700Z	07°20'S	31°27'W	27.5	---	ESE	12
10	16 May	0853Z	07°00'S	32°00'W	27.6	36.00	ESE	12
11	16 May	1027Z	06°40'S	32°28'W	27.6	---	ESE	12
12	16 May	1223Z	06°20'S	33°00'W	27.7	35.50	ESE	12
13	16 May	1425Z	06°00'S	33°34'W	27.7	---	ESE	12
14	16 May	1610Z	05°40'S	34°06'W	28.2	36.07	SE	12
15	16 May	1805Z	05°20'S	34°40'W	27.6	---	SE	12
16	16 May	----	05°00'S	(35°10'W)	----	36.33	SE	12
17	16 May	2125Z	04°40'S	35°39'W	27.7	---	SE	12
18	16 May	2350Z	04°20'S	36°06'W	27.6	36.09	SE	12
19	16 May	----	04°00'S	36°53'W	27.4	---	SE	12
20	17 May	0315Z	03°40'S	37°30'W	27.4	36.03	E	12
21	17 May	----	03°20'S	38°14'W	----	---	E	12
22	17 May	0720Z	03°00'S	38°50'W	27.6	36.42	E	12
23	17 May	----	02°40'S	(39°21'W)	----	---	ESE	15
24	17 May	----	02°20'S	(39°52'W)	----	36.19	ESE	15
25	17 May	1236Z	02°00'S	40°22'W	27.7	---	SE	15
26	17 May	1429Z	01°40'S	40°58'W	27.9	35.75	SE	15
27	17 May	1615Z	01°20'S	41°36'W	27.8	---	SE	15
28	17 May	1755Z	01°00'S	42°13'W	27.6	36.07	SE	15
29	17 May	2000Z	00°40'S	42°50'W	28.0	---	SE	15
30	17 May	2140Z	00°20'S	43°33'W	27.7	35.10	SE	15
31	17 May	2304Z	00°00'	43°54'W	27.5	---	SE	15

XBT Section 14, 15-19 May 81
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	18 May	0035Z	00°20'N	44°23'W	27.4	36.34	SE	15
33	18 May	0157Z	00°40'N	44°47'W	27.7	----	E	15
34	18 May	0322Z	01°00'N	45°14'W	27.8	36.17	ENE	12
35	18 May	0450Z	01°20'N	45°43'W	28.1	----	ENE	12
36	18 May	0616Z	01°40'N	46°08'W	28.0	36.08	ENE	12
37	18 May	0750Z	02°00'N	46°33'W	28.2	----	ENE	12
38	18 May	0916Z	02°20'N	46°58'W	28.2	36.03	ENE	12
39	18 May	1034Z	02°40'N	47°18'W	28.1	----	ENE	12
40	18 May	1204Z	03°00'N	47°45'W	28.1	35.98	NE	15
41	18 May	1326Z	03°20'N	48°06'W	28.0	----	E	15
42	18 May	1450Z	03°40'N	48°29'W	27.8	36.08	E	15
43	18 May	1618Z	04°00'N	(48°54'W)	----	----	ENE	12
44	18 May	1750Z	04°20'N	49°19'W	28.0	35.92	ENE	12
45	18 May	1900Z	04°40'N	49°41'W	28.0	----	NNE	12
46	18 May	----	05°00'N	(50°06'W)	----	30.41	NNE	12
47	18 May	2205Z	05°20'N	50°32'W	28.3	----	NNE	12
48	18 May	2244Z	05°40'N	51°00'W	28.4	30.70	NNE	12
49	19 May	0104Z	06°00'N	51°04'W	28.0	----	NNE	12
50	19 May	0230Z	06°20'N	51°50'W	28.1	25.41	NNE	12
51	19 May	0320Z	06°40'N	52°03'W	28.2	----	NNE	12
52	19 May	0441Z	07°00'N	52°26'W	28.1	25.81	NNE	12
53	19 May	0617Z	07°20'N	52°51'W	27.7	----	NE	12
54	19 May	0835Z	07°40'N	53°43'W	27.6	28.93	ESE	6
55	19 May	1036Z	08°00'N	54°13'W	27.6	----	ESE	8
56	19 May	1245Z	08°20'N	54°55'W	27.3	33.20	E	8
57	19 May	1500Z	08°40'N	55°38'W	28.0	----	SE	10
58	19 May	1653Z	09°00'N	56°14'W	28.3	35.42	SE	10
59	19 May	1904Z	09°20'N	56°55'W	28.2	----	SE	10
60	19 May	2135Z	09°40'N	57°38'W	28.1	35.05	SE	10
61	19 May	2355Z	10°00'N	58°23'W	27.7	----	SE	10

XBT Section 15, 4-9 Jul 81
S.A. Constantia, crossing equator at 25°52'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	4 Jul	2048Z	10°00'N	41°04'W	27.1	35.97	E	16
2	4 Jul	2233Z	09°40'N	40°38'W	26.6	---	E	16
3	5 Jul	0021Z	09°20'N	40°11'W	26.8	36.09	E	16
4	5 Jul	0230Z	09°00'N	39°43'W	27.1	---	E	16
5	5 Jul	0430Z	08°40'N	39°12'W	27.0	35.78	SE	12
6	5 Jul	0638Z	08°20'N	38°38'W	27.1	---	SE	12
7	5 Jul	0850Z	08°00'N	38°08'W	27.1	35.57	SW	10
8	5 Jul	1054Z	07°40'N	37°37'W	27.4	---	SW	10
9	5 Jul	1234Z	07°20'N	37°13'W	27.4	35.46	SW	10
10	5 Jul	1512Z	07°00'N	36°23'W	27.7	---	SSE	18
11	5 Jul	1712Z	06°40'N	35°51'W	28.0	35.06	SSE	18
12	5 Jul	1920Z	06°20'N	35°19'W	28.0	---	SSE	18
13	5 Jul	----	06°00'N	(34°47'W)	----	34.82	SSE	18
14	5 Jul	2315Z	05°40'N	34°17'W	27.9	---	SSE	16
15	6 Jul	0200Z	05°20'N	33°30'W	28.8	35.55	SSE	16
16	6 Jul	----	05°00'N	(33°01'W)	----	---	SSE	16
17	6 Jul	----	04°40'N	(32°32'W)	----	35.57	SSE	16
18	6 Jul	----	04°20'N	(32°03'W)	----	---	SSE	16
19	6 Jul	----	04°00'N	(31°33'W)	----	---	SSE	16
20	6 Jul	1030Z	03°40'N	31°03'W	27.8	---	SSE	16
21	6 Jul	1220Z	03°20'N	30°37'W	27.8	35.64	SSE	16
22	6 Jul	1400Z	03°00'N	30°13'W	27.9	---	SSE	16
23	6 Jul	1553Z	02°40'N	29°44'W	27.9	35.58	SSE	16
24	6 Jul	1745Z	02°20'N	29°14'W	28.2	---	SSE	16
25	6 Jul	1935Z	02°00'N	28°45'W	28.0	35.48	SSE	16
26	6 Jul	----	01°40'N	(28°15'W)	----	---	SSE	16
27	6 Jul	2313Z	01°20'N	27°58'W	27.9	35.75	SSE	16
28	7 Jul	0100Z	01°00'N	27°28'W	27.6	---	SSE	16
29	7 Jul	0255Z	00°40'N	27°00'W	26.8	35.52	SE	10
30	7 Jul	0454Z	00°20'N	26°29'W	26.3	---	SE	10
31	7 Jul	0713Z	00°00'	25°52'W	26.2	36.03	SE	10

XBT Section 15, 4-9 Jul 81
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	7 Jul	0908Z	00°20'S	25°19'W	25.8	----	SE	10
33	7 Jul	1121Z	00°40'S	24°43'W	26.1	36.02	SE	10
34	7 Jul	1316Z	01°00'S	24°15'W	26.0	----	SE	10
35	7 Jul	1500Z	01°20'S	23°48'W	26.0	35.98	E	14
36	7 Jul	1655Z	01°40'S	23°19'W	25.4	----	ESE	10
37	7 Jul	1854Z	02°00'S	22°48'W	25.2	35.79	ESE	10
38	7 Jul	2021Z	02°20'S	22°20'W	25.1	----	ESE	10
39	7 Jul	2206Z	02°40'S	21°59'W	25.4	35.81	E	4
40	7 Jul	2356Z	03°00'S	21°32'W	25.0	----	E	4
41	8 Jul	0141Z	03°20'S	21°04'W	25.5	35.55	ESE	12
42	8 Jul	0333Z	03°40'S	20°40'W	26.0	----	ESE	10
43	8 Jul	0533Z	04°00'S	20°11'W	----	35.37	ESE	10
44	8 Jul	0724Z	04°20'S	19°44'W	26.0	----	ESE	10
45	8 Jul	0939Z	04°40'S	19°10'W	26.3	35.43	ESE	18
46	8 Jul	1120Z	05°00'S	18°48'W	25.7	----	SE	18
47	8 Jul	----	05°20'S	(18°20'W)	----	35.81	SE	18
48	8 Jul	1508Z	05°40'S	17°52'W	26.6	----	SE	16
49	8 Jul	1708Z	06°00'S	17°22'W	26.4	35.84	SE	16
50	8 Jul	----	06°20'S	(16°48'W)	----	----	SE	16
51	9 Jul	2120Z	06°40'S	16°14'W	26.4	----	SE	16
52	9 Jul	2330Z	07°00'S	15°41'W	26.2	----	SSE	16
53	9 Jul	0112Z	07°20'S	15°18'W	25.9	----	SSE	16
54	9 Jul	0310Z	07°40'S	14°46'W	25.9	----	SSE	16
55	9 Jul	0533Z	08°00'S	14°05'W	25.4	----	SSE	16
56	9 Jul	0740Z	08°20'S	13°29'W	25.4	----	SE	16
57	9 Jul	1000Z	08°40'S	12°47'W	25.2	----	SE	16
58	9 Jul	1245Z	09°00'S	12°05'W	25.3	----	SE	16
59	9 Jul	1425Z	09°20'S	11°35'W	25.1	----	SE	16
60	9 Jul	1645Z	09°40'S	10°55'W	25.0	----	SE	16

S.A. CONSTANTIA

4-9 JULY 1981

XBT Section 16, 19-22 Jun 81
S.A. Sederberg, crossing equator at 09°45'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	19 Jun	0515Z	10°00'S	01°57'W	24.5	----	ESE	17
2	19 Jun	0630Z	09°40'S	02°12'W	24.5	36.30	ESE	17
3	19 Jun	0804Z	09°20'S	02°31'W	24.6	----	ESE	17
4	19 Jun	0921Z	09°00'S	02°46'W	24.7	36.04	ESE	17
5	19 Jun	1037Z	08°40'S	03°01'W	25.0	----	ESE	17
6	19 Jun	1154Z	08°20'S	03°17'W	25.1	35.96	ESE	17
7	19 Jun	1316Z	08°00'S	03°32'W	25.4	----	ESE	17
8	19 Jun	1425Z	07°40'S	03°43'W	25.6	35.87	ESE	17
9	19 Jun	1541Z	07°20'S	03°58'W	25.7	----	ESE	17
10	19 Jun	1655Z	07°00'S	04°13'W	25.6	35.88	ESE	15
11	19 Jun	1810Z	06°40'S	04°28'W	25.3	----	SE	12
12	19 Jun	1925Z	06°20'S	04°43'W	25.3	35.93	SE	12
13	19 Jun	2045Z	06°00'S	05°04'W	25.7	----	SE	12
14	19 Jun	2200Z	05°40'S	05°19'W	25.9	35.83	SE	12
15	19 Jun	2325Z	05°20'S	05°34'W	25.8	----	SE	12
16	20 Jun	0040Z	05°00'S	05°43'W	25.5	35.52	SE	10
17	20 Jun	0150Z	04°40'S	05°58'W	25.3	----	SE	10
18	20 Jun	0300Z	04°20'S	06°13'W	25.0	35.70	SE	10
19	20 Jun	0430Z	04°00'S	06°28'W	24.6	----	SE	10
20	20 Jun	0545Z	03°40'S	06°52'W	24.6	35.57	SE	8
21	20 Jun	0638Z	03°20'S	07°04'W	24.5	----	SE	12
22	20 Jun	0745Z	03°00'S	07°19'W	24.3	35.50	SE	12
23	20 Jun	0908Z	02°40'S	07°34'W	24.3	----	SSE	15
24	20 Jun	1018Z	02°20'S	07°49'W	24.2	35.55	SSE	15
25	20 Jun	1140Z	02°00'S	08°09'W	24.2	----	SSE	15
26	20 Jun	1305Z	01°40'S	08°24'W	24.2	35.60	SSE	15
27	20 Jun	----	(01°20'S)	(08°40'W)	----	----	SSE	15
28	20 Jun	1533Z	01°00'S	08°56'W	24.3	35.62	SSE	15
29	20 Jun	1648Z	00°40'S	09°10'W	24.2	----	SSE	15
30	20 Jun	1803Z	00°20'S	09°28'W	24.0	35.61	SSE	15
31	20 Jun	1910Z	00°00'	09°45'W	23.6	----	S	10

XBT Section 16, 19-22 Jun 81
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	20 Jun	2021Z	00°20'N	09°59'W	23.6	35.60	S	10
33	20 Jun	2135Z	00°40'N	10°13'W	23.3	---	S	10
34	20 Jun	2242Z	01°00'N	10°28'W	24.8	35.31	S	10
35	20 Jun	2355Z	01°20'N	10°44'W	25.6	---	S	10
36	21 Jun	0120Z	01°40'N	10°59'W	26.0	34.98	S	10
37	21 Jun	0230Z	02°00'N	11°14'W	25.9	---	S	10
38	21 Jun	0348Z	02°20'N	11°29'W	26.8	35.01	S	10
39	21 Jun	0508Z	02°40'N	11°44'W	27.7	---	S	12
40	21 Jun	0610Z	03°00'N	11°59'W	27.8	---	S	12
41	21 Jun	0723Z	03°20'N	12°14'W	27.8	35.23	S	16
42	21 Jun	0836Z	03°40'N	12°29'W	28.0	---	S	16
43	21 Jun	1003Z	04°00'N	12°44'W	28.1	35.13	S	16
44	21 Jun	1133Z	04°20'N	12°59'W	28.1	---	S	16
45	21 Jun	1302Z	04°40'N	13°14'W	28.2	35.16	S	16
46	21 Jun	1435Z	05°00'N	13°26'W	28.3	---	S	16
47	21 Jun	1550Z	05°20'N	13°38'W	28.4	35.26	S	16
48	21 Jun	1718Z	05°40'N	13°54'W	28.4	---	S	16
49	21 Jun	1846Z	06°00'N	14°08'W	28.6	33.74	S	16
50	21 Jun	2010Z	06°20'N	14°23'W	28.5	---	S	16
51	21 Jun	2140Z	06°40'N	14°35'W	28.4	34.60	S	16
52	21 Jun	2310Z	07°00'N	14°48'W	28.5	---	SW	16
53	22 Jun	0140Z	07°20'N	15°01'W	28.6	---	SW	16
54	22 Jun	-----	07°40'N	(15°18'W)	---	---	SW	16
55	22 Jun	0324Z	08°00'N	15°37'W	28.6	---	W	15
56	22 Jun	0500Z	08°20'N	15°54'W	28.6	---	W	15
57	22 Jun	0624Z	08°40'N	16°09'W	28.6	---	W	15
58	22 Jun	0752Z	09°00'N	16°25'W	28.8	---	W	15
59	22 Jun	0920Z	09°20'N	16°37'W	28.7	34.28	W	15
60	22 Jun	1045Z	09°40'N	16°48'W	28.8	---	W	15
61	22 Jun	1206Z	10°00'N	16°58'W	28.6	34.56	W	15

XBT Section 17, 17-20 Jul 81
S.A. Sederberg, crossing equator at 08°57'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	17 Jul	1300Z	10°00'N	16°56'W	27.3	35.25	S	15
2	17 Jul	1457Z	09°40'N	16°40'W	27.7	----	S	12
3	17 Jul	1621Z	09°20'N	16°25'W	27.5	35.39	S	10
4	17 Jul	1744Z	09°00'N	16°09'W	27.5	----	S	10
5	17 Jul	1906Z	08°40'N	15°57'W	27.4	34.97	S	10
6	17 Jul	2028Z	08°20'N	15°28'W	27.5	----	S	10
7	17 Jul	2150Z	08°00'N	15°08'W	27.7	34.61	S	10
8	17 Jul	2340Z	07°40'N	14°52'W	27.6	----	S	10
9	18 Jul	0045Z	07°20'N	14°36'W	27.5	34.48	S	10
10	18 Jul	0200Z	07°00'N	14°21'W	27.4	----	S	10
11	18 Jul	0337Z	06°40'N	14°05'W	27.5	34.64	S	10
12	18 Jul	0452Z	06°20'N	13°49'W	27.4	----	S	10
13	18 Jul	0618Z	06°00'N	13°33'W	27.2	34.62	S	10
14	18 Jul	0734Z	05°40'N	13°18'W	27.1	----	S	10
15	18 Jul	0854Z	05°20'N	13°02'W	27.3	35.06	S	10
16	18 Jul	1012Z	05°00'N	12°47'W	27.0	----	S	10
17	18 Jul	1136Z	04°40'N	12°31'W	27.2	35.46	S	14
18	18 Jul	1254Z	04°20'N	12°21'W	27.2	----	S	14
19	18 Jul	1415Z	04°00'N	12°05'W	27.0	35.42	S	14
20	18 Jul	1542Z	03°40'N	11°45'W	26.9	----	S	18
21	18 Jul	1703Z	03°20'N	11°32'W	26.8	35.48	S	20
22	18 Jul	1824Z	03°00'N	11°19'W	26.4	----	S	18
23	18 Jul	1950Z	02°40'N	11°08'W	25.5	35.23	S	18
24	18 Jul	2101Z	02°20'N	10°42'W	23.3	----	SE	18
25	18 Jul	2225Z	02°00'N	10°37'W	22.6	35.56	SE	18
26	18 Jul	2345Z	01°40'N	10°21'W	21.8	----	SE	18
27	19 Jul	0107Z	01°20'N	10°06'W	22.2	35.72	SE	18
28	19 Jul	0230Z	01°00'N	09°50'W	22.2	----	SE	18
29	19 Jul	0350Z	00°40'N	09°30'W	22.1	35.73	SE	18
30	19 Jul	0513Z	00°20'N	09°14'W	22.0	----	SE	18
31	19 Jul	0637Z	00°00'	08°57'W	21.9	35.72	SE	10

XBT Section 17, 17-20 Jul 81
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	19 Jul	0807Z	00°20'S	08°41'W	21.8	----	SE	10
33	19 Jul	0931Z	00°40'S	08°26'W	22.1	35.61	SE	10
34	19 Jul	1053Z	01°00'S	08°10'W	22.1	----	ESE	10
35	19 Jul	1214Z	01°20'S	07°55'W	22.4	35.57	ESE	10
36	19 Jul	1336Z	01°40'S	07°40'W	23.0	----	ESE	10
37	19 Jul	1458Z	02°00'S	07°25'W	23.4	35.64	SE	10
38	19 Jul	1622Z	02°20'S	07°07'W	23.4	----	SE	10
39	19 Jul	1743Z	02°40'S	06°51'W	23.4	35.74	SE	10
40	19 Jul	1910Z	03°00'S	06°38'W	23.4	----	SSE	15
41	19 Jul	2045Z	03°20'S	06°27'W	23.5	35.80	SSE	15
42	19 Jul	2132Z	03°40'S	06°10'W	23.3	----	SSE	15
43	19 Jul	2255Z	04°00'S	05°58'W	23.3	35.79	SE	15
44	20 Jul	0015Z	04°20'S	05°45'W	23.4	----	SE	18
45	20 Jul	0138Z	04°40'S	05°30'W	23.6	35.75	SE	18
46	20 Jul	0300Z	05°00'S	05°19'W	23.6	----	SE	18
47	20 Jul	0421Z	05°20'S	05°03'W	24.0	35.55	SE	18
48	20 Jul	0543Z	05°40'S	04°50'W	24.0	----	SE	18
49	20 Jul	0700Z	06°00'S	04°34'W	23.8	35.59	SE	18
50	20 Jul	0818Z	06°20'S	04°20'W	24.1	----	SE	18
51	20 Jul	0938Z	06°40'S	04°05'W	24.5	35.63	SE	18
52	20 Jul	1058Z	07°00'S	03°50'W	24.4	----	SE	20
53	20 Jul	1220Z	07°20'S	03°35'W	24.7	35.73	SE	20
54	20 Jul	1340Z	07°40'S	03°21'W	24.5	----	SE	20
55	20 Jul	1500Z	08°00'S	03°07'W	24.1	36.06	SE	20
56	20 Jul	1622Z	08°20'S	02°48'W	24.0	----	SE	20
57	20 Jul	1745Z	08°40'S	02°34'W	24.0	36.11	SE	20
58	20 Jul	1905Z	09°00'S	02°15'W	23.7	----	SE	20
59	20 Jul	(2025Z)	09°20'S	(02°00'W)	----	36.06	----	----
60	20 Jul	2150Z	09°40'S	01°46'W	23.6	----	----	----
61	20 Jul	2212Z	10°00'S	01°30'W	22.6	36.62	----	----

XBT Section 18, 15-19 Aug 81
S.A. Constantia, crossing equator at 23°41'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	15 Aug	2356Z	10°00'S	12°07'W	23.9	---	SE	20
2	16 Aug	0140Z	09°40'S	12°32'W	24.0	36.22	SE	20
3	16 Aug	0310Z	09°20'S	12°56'W	24.1	---	SE	20
4	16 Aug	----	09°00'S	(13°19'W)	----	36.09	SE	20
5	16 Aug	0620Z	08°40'S	13°42'W	24.1	---	SE	20
6	16 Aug	0750Z	08°20'S	14°04'W	24.3	36.05	SE	20
7	16 Aug	0930Z	08°00'S	14°30'W	24.6	---	SE	20
8	16 Aug	----	07°40'S	(14°53'W)	----	35.88	ESE	15
9	16 Aug	1237Z	07°20'S	15°16'W	24.7	---	ESE	15
10	16 Aug	1410Z	07°00'S	15°39'W	24.9	---	ESE	15
11	16 Aug	1542Z	06°40'S	16°02'W	24.2	---	ESE	15
12	16 Aug	1720Z	06°20'S	16°25'W	24.3	35.58	ESE	20
13	16 Aug	1855Z	06°00'S	16°50'W	24.6	---	SE	20
14	16 Aug	2025Z	05°40'S	17°10'W	24.7	35.81	SE	20
15	16 Aug	2152Z	05°20'S	17°35'W	24.5	---	ESE	15
16	16 Aug	2330Z	05°00'S	17°58'W	24.4	35.67	ESE	15
17	17 Aug	0052Z	04°40'S	18°20'W	25.0	---	ESE	15
18	17 Aug	0235Z	04°20'S	18°46'W	25.0	35.83	ESE	15
19	17 Aug	0405Z	04°00'S	19°09'W	24.8	---	ESE	15
20	17 Aug	0542Z	03°40'S	19°32'W	25.2	35.71	ESE	15
21	17 Aug	----	03°20'S	19°57'W	25.4	---	ESE	15
22	17 Aug	0850Z	03°00'S	20°19'W	25.2	35.88	ESE	15
23	17 Aug	1019Z	02°40'S	20°41'W	25.3	---	ESE	15
24	17 Aug	1149Z	02°20'S	21°04'W	25.3	35.76	SE	15
25	17 Aug	1315Z	02°00'S	21°27'W	25.4	---	SE	20
26	17 Aug	1402Z	01°40'S	21°48'W	25.5	35.80	SE	20
27	17 Aug	1632Z	01°20'S	22°10'W	25.6	---	SE	20
28	17 Aug	1810Z	01°00'S	22°30'W	25.5	35.57	SE	15
29	17 Aug	1912Z	00°40'S	22°56'W	25.6	---	SE	15
30	17 Aug	2049Z	00°20'S	23°20'W	25.7	35.35	SE	15
31	17 Aug	2218Z	00°00'	23°41'W	25.8	---	ESE	15

XBT Section 18, 15-19 Aug 81
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	17 Aug	2355Z	00°20'N	23°55'W	26.0	35.59	ESE	15
33	18 Aug	0145Z	00°40'N	24°36'W	26.1	----	SE	15
34	18 Aug	0305Z	01°00'N	24°59'W	26.3	35.76	SE	15
35	18 Aug	0439Z	01°20'N	(25°23'W)	----	----	SE	15
36	18 Aug	0610Z	01°40'N	25°47'W	26.5	35.60	SE	15
37	18 Aug	0740Z	02°00'N	26°08'W	26.7	----	SE	15
38	18 Aug	0902Z	02°20'N	26°28'W	28.2	35.52	SE	15
39	18 Aug	1038Z	02°40'N	26°52'W	27.6	----	SE	15
40	18 Aug	1203Z	03°00'N	27°13'W	27.7	35.45	ESE	20
41	18 Aug	1332Z	03°20'N	27°35'W	27.7	----	ESE	20
42	18 Aug	1453Z	03°40'N	27°50'W	28.0	35.24	S	15
43	18 Aug	1626Z	04°00'N	28°14'W	27.7	----	S	20
44	18 Aug	1810Z	04°20'N	28°38'W	27.9	35.21	SW	20
45	18 Aug	1948Z	04°40'N	29°01'W	28.0	----	SW	10
46	18 Aug	2130Z	05°00'N	29°27'W	27.8	34.41	SW	12
47	18 Aug	2305Z	05°20'N	29°49'W	27.9	----	----	----
48	19 Aug	0053Z	05°40'N	30°16'W	27.5	----	----	----
49	19 Aug	0220Z	06°00'N	30°35'W	27.5	----	C	----
50	19 Aug	0400Z	06°20'N	31°01'W	27.9	34.30	C	----
51	19 Aug	0535Z	06°40'N	31°23'W	27.6	----	C	----
52	19 Aug	0712Z	07°00'N	31°34'W	27.6	34.43	C	----
53	19 Aug	0845Z	07°20'N	32°07'W	27.4	----	NE	15
54	19 Aug	----	07°40'N	32°28'W	----	35.50	E	10
55	19 Aug	1156Z	08°00'N	32°48'W	27.5	----	----	----
56	19 Aug	1335Z	08°20'N	33°11'W	27.5	35.59	N	10
57	19 Aug	1505Z	08°40'N	33°32'W	27.7	----	NNE	10
58	19 Aug	1633Z	09°00'N	33°35'W	27.8	35.67	NE	20
59	19 Aug	1820Z	09°20'N	34°19'W	27.7	----	NE	20
60	19 Aug	1950Z	09°40'N	34°40'W	27.8	35.52	NE	20
61	19 Aug	2125Z	10°00'N	35°01'W	27.7	----	NE	20

S.A. CONSTANTIA

15-19 AUGUST 1981

S.A. CONSTANTIA

15-19 AUG 1981

LATITUDE

XBT Section 19, 4-9 Oct 81
S.A. Constantia, crossing equator at 24°00'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	4 Oct	1354Z	10°00'N	(36°38'W)	27.8	---	NE	25
2	4 Oct	1526Z	09°40'N	36°14'W	27.9	---	NE	25
3	4 Oct	1707Z	09°20'N	35°50'W	27.8	35.54	NE	20
4	4 Oct	----	09°00'N	(35°22'W)	----	----	NE	15
5	4 Oct	2126Z	08°40'N	34°54'W	27.9	34.43	NE	15
6	4 Oct	2300Z	08°20'N	34°33'W	28.1	----	NE	15
7	5 Oct	0156Z	08°00'N	34°07'W	28.2	33.85	NE	15
8	5 Oct	0254Z	07°40'N	33°40'W	28.1	----	E	15
9	5 Oct	0449Z	07°20'N	33°15'W	28.0	34.04	----	----
10	5 Oct	0645Z	07°00'N	32°48'W	28.1	----	SSE	15
11	5 Oct	-----	06°40'N	(32°22'W)	-----	35.42	SSE	15
12	5 Oct	-----	06°20'N	(31°56'W)	-----	----	SSE	15
13	5 Oct	1220Z	06°00'N	31°30'W	28.2	34.89	SSE	15
14	5 Oct	1407Z	05°40'N	31°10'W	28.2	----	ESE	15
15	5 Oct	1556Z	05°20'N	30°45'W	28.7	34.45	ESE	15
16	5 Oct	1758Z	05°00'N	30°22'W	28.7	----	SE	15
17	5 Oct	1925Z	04°40'N	30°00'W	-----	35.11	SSE	15
18	5 Oct	2126Z	04°20'N	29°38'W	28.1	----	----	----
19	5 Oct	2322Z	04°00'N	29°15'W	27.5	35.49	C	----
20	6 Oct	0125Z	03°40'N	28°50'W	27.5	----	C	----
21	6 Oct	0254Z	03°20'N	28°32'W	27.5	35.42	SE	15
22	6 Oct	0602Z	03°00'N	27°45'W	27.7	----	SE	15
23	6 Oct	0800Z	02°40'N	27°20'W	27.8	35.36	SE	15
24	6 Oct	0950Z	02°20'N	26°52'W	27.7	----	SE	20
25	6 Oct	1200Z	02°00'N	26°30'W	27.2	35.35	SE	20
26	6 Oct	1400Z	01°40'N	26°04'W	27.1	----	SE	20
27	6 Oct	1610Z	01°20'N	25°34'W	26.7	35.77	SE	20
28	6 Oct	1815Z	01°00'N	25°14'W	26.5	----	SE	20
29	6 Oct	2020Z	00°40'N	24°50'W	26.5	35.72	SE	20
30	6 Oct	2217Z	00°20'N	24°24'W	26.4	----	SE	20
31	7 Oct	0010Z	00°00'	(24°00'W)	26.1	36.18	SE	15

XBT Section 19, 4-9 Oct 81
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	7 Oct	0201Z	00°20'S	23°33'W	----	----	----	----
33	7 Oct	0400Z	00°40'S	23°03'W	26.2	36.20	SE	15
34	7 Oct	0535Z	01°00'S	22°41'W	26.1	----	SE	20
35	7 Oct	0758Z	01°20'S	22°08'W	25.8	36.19	SE	20
36	7 Oct	0900Z	01°40'S	21°53'W	26.9	----	SE	20
37	7 Oct	1100Z	02°00'S	21°26'W	27.2	36.09	SE	20
38	7 Oct	1252Z	02°20'S	21°03'W	26.0	----	SE	20
39	7 Oct	1424Z	02°40'S	20°39'W	26.0	36.95	SE	20
40	7 Oct	1617Z	03°00'S	20°14'W	25.8	----	SE	20
41	7 Oct	1810Z	03°20'S	19°50'W	25.7	36.06	SE	20
42	7 Oct	1952Z	03°40'S	19°26'W	25.7	----	SE	15
43	7 Oct	2150Z	04°00'S	19°02'W	25.4	35.56	SE	20
44	7 Oct	2320Z	04°20'S	18°42'W	25.3	----	SE	15
45	8 Oct	0100Z	04°40'S	18°19'W	25.1	35.66	SE	15
46	8 Oct	0247Z	05°00'S	17°55'W	25.1	----	SE	15
47	8 Oct	----	05°20'S	(17°29'W)	----	35.81	SE	20
48	8 Oct	0630Z	05°40'S	17°03'W	25.0	----	SE	20
49	8 Oct	0826Z	06°00'S	16°37'W	25.0	35.93	SE	20
50	8 Oct	0950Z	06°20'S	16°20'W	25.0	----	SE	15
51	8 Oct	1140Z	06°40'S	15°53'W	24.6	35.98	SE	15
52	8 Oct	1322Z	07°00'S	15°33'W	24.3	----	SE	20
53	8 Oct	1518Z	07°20'S	15°06'W	24.2	35.98	SE	20
54	8 Oct	1702Z	07°40'S	14°44'W	24.4	----	SE	20
55	8 Oct	1942Z	08°00'S	14°00'W	24.4	36.00	SE	20
56	8 Oct	2137Z	08°20'S	13°44'W	24.3	----	SE	20
57	8 Oct	----	08°40'S	13°26'W	24.0	36.01	SE	20
58	9 Oct	0104Z	09°00'S	12°56'W	23.9	----	SE	15
59	9 Oct	0305Z	09°20'S	12°28'W	23.7	35.99	SE	15
60	9 Oct	0440Z	09°40'S	12°08'W	23.6	----	SE	15
61	9 Oct	0622Z	10°00'S	11°45'W	23.5	----	SE	20

S.A. CONSTANTIA

4-9 OCTOBER 1981

S.A. CONSTANTIA

4 - 9 OCT 1981

LATITUDE

XBT Section 20, 12-17 Nov 81
Esso Kawasaki, crossing equator at 10°43'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	12 Nov	0000Z	10°00'S	02°36'W	22.8	----	SSW	9
2	12 Nov	0235Z	09°40'S	02°54'W	23.0	36.37	S	13
3	12 Nov	0510Z	09°20'S	03°10'W	23.0	----	S	9
4	12 Nov	0745Z	09°00'S	03°26'W	23.1	36.33	S	9
5	12 Nov	1020Z	08°40'S	03°43'W	23.3	----	SSE	9
6	12 Nov	1215Z	08°20'S	03°53'W	23.6	36.19	S	13
7	12 Nov	1445Z	08°00'S	04°08'W	23.8	----	S	13
8	12 Nov	1735Z	07°40'S	04°24'W	23.8	35.96	S	9
9	12 Nov	2010Z	07°20'S	04°40'W	24.2	----	S	13
10	12 Nov	2245Z	07°00'S	04°56'W	24.2	35.98	SSW	13
11	13 Nov	0110Z	06°40'S	05°11'W	24.1	----	SSW	13
12	13 Nov	0335Z	06°20'S	05°29'W	24.8	35.98	S	13
13	13 Nov	0610Z	06°00'S	05°45'W	25.2	----	S	13
14	13 Nov	0845Z	05°40'S	06°00'W	25.3	36.05	S	13
15	13 Nov	1106Z	05°20'S	06°18'W	25.6	----	SSE	13
16	13 Nov	1315Z	05°00'S	06°31'W	25.6	36.07	S	13
17	13 Nov	1550Z	04°40'S	06°47'W	25.6	----	S	13
18	13 Nov	1825Z	04°20'S	07°03'W	25.7	36.02	S	13
19	13 Nov	2112Z	04°00'S	07°14'W	25.7	----	S	13
20	13 Nov	2342Z	03°40'S	07°30'W	25.7	36.04	S	9
21	14 Nov	0218Z	03°20'S	07°46'W	25.8	----	SSE	13
22	14 Nov	0445Z	03°00'S	08°03'W	25.9	36.13	SSE	13
23	14 Nov	0730Z	02°40'S	08°19'W	25.8	----	SSE	13
24	14 Nov	1006Z	02°20'S	08°35'W	25.8	35.46	S	9
25	14 Nov	1240Z	02°00'S	09°06'W	25.9	----	S	13
26	14 Nov	1506Z	01°40'S	09°21'W	26.1	35.98	SSW	13
27	14 Nov	1740Z	01°20'S	09°38'W	25.9	----	SSW	13
28	14 Nov	2016Z	01°00'S	09°55'W	25.8	36.06	SSW	13
29	14 Nov	2245Z	00°40'S	10°11'W	25.7	----	SSW	9
29B	15 Nov	0001Z	00°30'S	10°20'W	25.8	----	SSW	9
30	15 Nov	-----	00°20'S	10°27'W	-----	35.90	----	----
30B	15 Nov	0227Z	00°10'S	10°35'W	25.6	----	SSE	9

XBT Section 20, 12-17 Nov 81
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
31	15 Nov	0340Z	00°00'	10°43'W	25.7	---	S	9
31B	15 Nov	0453Z	00°10'N	10°50'W	25.7	---	S	9
32	15 Nov	0606Z	00°20'N	10°58'W	25.8	35.76	S	9
32B	15 Nov	0719Z	00°30'N	11°07'W	26.0	---	SE	9
33	15 Nov	0832Z	00°40'N	11°15'W	26.1	---	SE	9
34	15 Nov	1015Z	01°00'N	11°39'W	26.6	35.63	SE	9
35	15 Nov	1230Z	01°20'N	11°48'W	26.8	---	SE	9
36	15 Nov	1445Z	01°40'N	12°03'W	27.0	35.62	SE	9
37	15 Nov	1708Z	02°00'N	12°19'W	27.0	---	SE	9
38	15 Nov	1920Z	02°20'N	12°41'W	26.8	35.71	SE	9
39	15 Nov	2103Z	02°40'N	12°55'W	27.5	---	SE	9
40	15 Nov	2310Z	03°00'N	13°07'W	27.9	35.18	SE	9
41	16 Nov	0117Z	03°20'N	13°23'W	27.8	---	SSW	9
42	16 Nov	0330Z	03°40'N	13°37'W	28.0	35.12	SSW	9
43	16 Nov	0540Z	04°00'N	13°51'W	28.1	---	SSW	9
44	16 Nov	0904Z	04°20'N	14°08'W	28.3	34.46	SSW	9
45	16 Nov	1125Z	04°40'N	14°22'W	28.4	---	SSW	13
46	16 Nov	1410Z	05°00'N	14°39'W	28.5	34.40	S	5
47	16 Nov	1640Z	05°20'N	14°54'W	29.1	---	S	5
48	16 Nov	1910Z	05°40'N	15°09'W	28.9	34.21	S	5
49	16 Nov	2140Z	06°00'N	15°23'W	28.8	---	C	---
50	17 Nov	0010Z	06°20'N	15°38'W	28.9	34.34	C	---
51	17 Nov	0240Z	06°40'N	15°53'W	29.0	---	W	5
52	17 Nov	0510Z	07°00'N	16°08'W	29.0	34.27	W	5
53	17 Nov	0740Z	07°20'N	16°22'W	28.9	---	NE	5
54	17 Nov	1114Z	07°40'N	16°38'W	28.9	34.74	NNE	5
55	17 Nov	1256Z	08°00'N	16°48'W	29.0	---	NNE	5
56	17 Nov	1535Z	08°20'N	17°05'W	29.0	34.37	NE	5
57	17 Nov	1815Z	08°40'N	17°22'W	29.1	---	NE	5
58	17 Nov	2155Z	09°00'N	17°39'W	28.9	34.77	NE	13
59	17 Nov	2335Z	09°20'N	17°57'W	28.9	---	NE	13

ESSO KAWASAKI

12-17 NOV. 1984

12-17 NOV 1981

XBT Section 21, 18-23 Nov 81
S.A. Constantia, crossing equator at 37°18'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	18 Nov	0454Z	10°00'S	21°52'W	----	----	SE	18
2	18 Nov	0651Z	09°40'S	22°22'W	25.4	----	SE	18
3	18 Nov	-----	09°20'S	(22°51'W)	-----	----	SE	18
4	18 Nov	1034Z	09°00'S	23°21'W	25.5	----	SE	18
5	18 Nov	1232Z	08°40'S	23°52'W	25.6	----	SE	18
6	18 Nov	1424Z	08°20'S	24°21'W	25.7	----	SE	18
7	18 Nov	1620Z	08°00'S	24°50'W	25.9	----	SE	18
8	18 Nov	1808Z	07°40'S	25°20'W	25.9	----	SE	18
9	18 Nov	2008Z	07°20'S	25°52'W	26.0	----	SE	18
10	18 Nov	-----	07°00'S	(26°22'W)	26.2	----	SE	18
11	-----	-----	06°40'S	(26°52'W)	26.1	----	SE	18
12	19 Nov	0156Z	06°20'S	27°22'W	-----	----	SE	18
13	19 Nov	0351Z	06°00'S	27°51'W	26.2	----	SE	18
14	19 Nov	0543Z	05°40'S	28°19'W	-----	----	SE	18
15	19 Nov	0743Z	05°20'S	28°51'W	26.3	----	SE	18
16	19 Nov	0941Z	05°00'S	29°21'W	-----	----	SE	18
17	19 Nov	1134Z	04°40'S	29°50'W	26.7	----	SE	18
18	19 Nov	1329Z	04°20'S	30°21'W	26.9	----	SE	18
19	19 Nov	1530Z	04°00'S	30°52'W	-----	----	SE	18
20	19 Nov	1730Z	03°40'S	31°25'W	27.0	----	SE	15
21	19 Nov	1922Z	03°20'S	31°55'W	27.0	----	SE	15
22	19 Nov	2121Z	03°00'S	32°27'W	-----	----	SE	15
23	19 Nov	2329Z	02°40'S	33°01'W	27.0	----	SE	15
24	20 Nov	0129Z	02°20'S	33°34'W	-----	----	SE	15
25	20 Nov	0329Z	02°00'S	34°06'W	27.4	----	SE	15
26	20 Nov	0525Z	01°40'S	34°39'W	27.0	----	SE	15
27	20 Nov	0726Z	01°20'S	35°10'W	27.2	----	SE	15
28	20 Nov	0925Z	01°00'S	35°42'W	27.1	----	SE	15
29	20 Nov	1126Z	00°40'S	36°13'W	27.2	----	SE	15
30	20 Nov	1324Z	00°20'S	36°44'W	26.9	----	SE	15
31	20 Nov	-----	00°00'	(37°18'W)	-----	----	SE	15

XBT Section 21, 18-23 Nov 81
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(‰)	Wind Dir. (from)	Wind Spd. (knots)
32	20 Nov	1745Z	00°20'N	37°52'W	27.7	---	E	6
33	20 Nov	2118Z	00°40'N	38°30'W	27.9	---	ESE	15
34	20 Nov	2340Z	01°00'N	39°06'W	27.8	---	ESE	15
35	21 Nov	0130Z	01°20'N	39°43'W	27.8	---	E	6
36	21 Nov	0340Z	01°40'N	40°17'W	27.7	---	E	6
37	21 Nov	0545Z	02°00'N	40°50'W	27.7	---	E	6
38	21 Nov	-----	02°20'N	41°24'W	---	---	E	6
39	21 Nov	0937Z	02°40'N	41°57'W	27.6	---	E	15
40	21 Nov	1136Z	03°00'N	42°31'W	27.7	---	E	15
41	21 Nov	1349Z	03°20'N	43°05'W	27.7	---	E	15
42	21 Nov	1540Z	03°40'N	43°35'W	28.0	---	ENE	15
43	21 Nov	2047Z	04°00'N	44°07'W	27.7	---	NE	6
44	21 Nov	-----	04°20'N	44°38'W	27.8	---	ENE	10
45	21 Nov	2147Z	04°40'N	45°02'W	27.6	---	ENE	10
46	21 Nov	2349Z	05°00'N	45°29'W	27.5	---	ENE	10
47	22 Nov	0213Z	05°20'N	46°00'W	27.8	---	ENE	10
48	22 Nov	0417Z	05°40'N	46°25'W	28.5	---	ENE	10
49	22 Nov	0645Z	06°00'N	46°59'W	28.2	---	ENE	10
50	22 Nov	0847Z	06°20'N	47°20'W	28.2	---	ENE	10
51	22 Nov	1115Z	06°40'N	48°01'W	27.7	---	ENE	10
52	22 Nov	1352Z	07°00'N	48°43'W	27.5	---	ENE	10
53	22 Nov	1652Z	07°20'N	49°29'W	28.0	---	ENE	10
54	22 Nov	1930Z	07°40'N	50°10'W	28.2	---	ENE	10
55	22 Nov	2146Z	08°00'N	50°43'W	27.9	---	E	7
56	23 Nov	0206Z	08°20'N	51°48'W	27.2	---	ENE	14
57	23 Nov	0332Z	08°40'N	52°07'W	27.4	---	ENE	14
58	23 Nov	0542Z	09°00'N	52°41'W	28.3	---	ENE	14
59	23 Nov	0752Z	09°20'N	(53°18'W)	----	---	ENE	14
60	23 Nov	1020Z	09°40'N	53°55'W	28.2	---	E	18

S.A. CONSTANTIA

18 - 23 NOV. 1981

S.A. CONSTANTIA

18 - 23 NOV 1981

XBT Section 22, 11-16 Jan 82
S.A. Constantia, crossing equator at 33°31'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	11 Jan	2008Z	10°00'N	45°41'W	26.7	---	NE	25
2	11 Jan	0230Z	09°40'N	45°15'W	26.6	---	NE	25
3	11 Jan	0000Z	09°20'N	44°52'W	26.5	---	NE	25
4	12 Jan	0200Z	09°00'N	44°26'W	26.5	---	NE	25
5	12 Jan	0342Z	08°40'N	44°06'W	26.5	---	NE	25
6	12 Jan	-----	08°20'N	43°43'W	-----	---	NE	25
7	12 Jan	0725Z	08°00'N	43°19'W	26.9	---	NE	25
8	12 Jan	-----	07°40'N	42°51'W	-----	---	NE	25
9	12 Jan	-----	07°20'N	(42°25'W)	-----	---	ENE	25
10	12 Jan	1250Z	07°00'N	42°00'W	27.0	---	ENE	35
11	12 Jan	1446Z	06°40'N	41°34'W	27.0	---	ENE	35
12	12 Jan	1600Z	06°20'N	41°14'W	26.9	---	ENE	35
13	12 Jan	1741Z	06°00'N	40°49'W	26.9	---	ENE	35
14	12 Jan	-----	05°40'N	40°28'W	26.9	---	ENE	35
15	12 Jan	2050Z	05°20'N	40°04'W	26.8	---	ENE	35
16	12 Jan	2242Z	05°00'N	39°37'W	26.9	---	ENE	35
17	13 Jan	0033Z	04°40'N	39°09'W	27.0	---	ENE	35
18	13 Jan	0234Z	04°20'N	38°41'W	27.0	---	NE	30
19	13 Jan	0444Z	04°00'N	38°16'W	26.9	---	NE	30
20	13 Jan	0647Z	03°40'N	37°52'W	27.1	---	NE	30
21	13 Jan	0843Z	03°20'N	37°28'W	27.1	---	NE	30
22	13 Jan	1041Z	03°00'N	37°05'W	27.0	---	NE	30
23	13 Jan	1238Z	02°40'N	36°43'W	27.0	---	NE	30
24	13 Jan	1444Z	02°20'N	36°18'W	27.0	---	NE	30
25	13 Jan	1636Z	02°00'N	35°56'W	27.3	---	NE	30
26	13 Jan	1842Z	01°40'N	35°29'W	27.4	---	ENE	17
27	13 Jan	2035Z	01°20'N	35°07'W	27.2	---	ENE	17
28	13 Jan	2232Z	01°00'N	34°44'W	27.1	---	NNE	17
29	14 Jan	0035Z	00°40'N	34°18'W	27.1	---	NNE	17
30	14 Jan	0227Z	00°20'N	33°55'W	-----	---	NNE	17
31	14 Jan	0419Z	00°00'	33°31'W	27.0	---	NNE	17

XBT Section 22, 11-16 Jan 82
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	14 Jan	0619Z	00°20'S	33°04'W	26.8	---	ESE	20
33	14 Jan	0803Z	00°40'S	32°42'W	26.7	---	ESE	20
34	14 Jan	0959Z	01°00'S	32°17'W	26.8	---	ESE	20
35	14 Jan	1147Z	01°20'S	31°53'W	27.1	---	ESE	20
36	14 Jan	1329Z	01°40'S	31°31'W	27.3	---	ESE	20
37	14 Jan	1520Z	02°00'S	31°09'W	27.5	---	ESE	20
38	14 Jan	1706Z	02°20'S	30°47'W	27.5	---	ESE	20
39	14 Jan	1941Z	02°40'S	30°12'W	27.3	---	ESE	20
40	14 Jan	2100Z	03°00'S	29°58'W	27.2	---	ESE	20
41	14 Jan	2305Z	03°20'S	29°31'W	27.1	---	ESE	20
42	15 Jan	0105Z	03°40'S	29°06'W	27.0	---	ESE	20
43	15 Jan	-----	-----	(28°43'W)	---	---	ESE	20
44	15 Jan	0449Z	04°20'S	28°20'W	26.9	---	ESE	20
45	15 Jan	0645Z	04°40'S	27°56'W	26.8	---	ESE	20
46	15 Jan	0840Z	05°00'S	27°32'W	26.1	---	ESE	20
47	15 Jan	1046Z	05°20'S	22°05'W	26.7	---	ESE	20
48	15 Jan	1235Z	05°40'S	26°43'W	26.6	---	ESE	20
49	15 Jan	1435Z	06°00'S	26°17'W	26.7	---	ESE	20
50	15 Jan	1630Z	06°20'S	25°51'W	26.9	---	SE	25
51	15 Jan	-----	06°40'S	25°27'W	---	---	SE	25
52	15 Jan	1947Z	07°00'S	25°01'W	26.7	---	SE	25
53	15 Jan	2135Z	07°20'S	24°35'W	26.6	---	SE	25
54	15 Jan	2317Z	07°40'S	24°11'W	26.4	---	SE	25
55	16 Jan	0109Z	08°00'S	23°45'W	26.4	---	SE	25
56	16 Jan	0250Z	08°20'S	23°20'W	26.3	---	SE	25
57	16 Jan	0440Z	08°40'S	22°53'W	26.3	---	SE	25
58	16 Jan	0634Z	09°00'S	22°33'W	26.3	---	SE	22
59	16 Jan	0827Z	09°20'S	22°10'W	26.0	---	SE	22
60	16 Jan	1017Z	09°40'S	21°44'W	25.7	---	SE	22
61	16 Jan	1210Z	10°00'S	21°17'W	25.7	---	SE	22

XBT Section 23, 27 Feb-3 Mar 82
S.A. Constantia, crossing equator at 26°50'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	27 Feb	1732Z	10°00'S	13°53'W	26.3	----	SE	16
2	27 Feb	1915Z	09°40'S	14°20'W	26.3	36.61	SE	12
3	27 Feb	2045Z	09°20'S	14°42'W	26.5	----	SE	11
4	27 Feb	2230Z	09°00'S	15°10'W	26.6	36.31	SE	10
5	28 Feb	0010Z	08°40'S	15°36'W	27.0	----	ESE	9
6	28 Feb	0155Z	08°20'S	16°03'W	26.8	36.37	SE	11
7	28 Feb	0335Z	08°00'S	16°31'W	26.9	----	ESE	3
8	28 Feb	0520Z	07°40'S	16°57'W	26.9	36.33	SE	8
9	28 Feb	0703Z	07°20'S	17°25'W	27.1	----	SE	9
10	28 Feb	0823Z	07°00'S	17°50'W	27.1	36.19	SE	12
11	28 Feb	1030Z	06°40'S	18°16'W	27.3	----	SE	10
12	28 Feb	1205Z	06°20'S	18°42'W	27.5	36.13	ESE	10
13	28 Feb	1342Z	06°00'S	19°07'W	27.7	----	SSE	10
14	28 Feb	1524Z	05°40'S	19°34'W	27.8	35.86	SE	10
15	28 Feb	1700Z	05°20'S	20°00'W	28.1	----	SE	12
16	28 Feb	1840Z	05°00'S	20°24'W	28.0	35.68	SE	12
17	28 Feb	2025Z	04°40'S	20°52'W	28.0	----	SE	9
18	28 Feb	-----	04°20'S	21°17'W	27.9	35.70	SE	10
19	28 Feb	2345Z	04°00'S	21°43'W	28.0	----	SE	7
20	1 Mar	0118Z	03°40'S	22°09'W	27.9	35.95	SE	8
21	1 Mar	0256Z	03°20'S	22°35'W	27.7	----	SE	6
22	1 Mar	0430Z	03°00'S	23°01'W	27.8	35.77	ESE	6
23	1 Mar	0615Z	02°40'S	23°27'W	27.7	----	SE	5
24	1 Mar	0755Z	02°20'S	23°53'W	27.9	35.87	SE	5
25	1 Mar	0940Z	02°00'S	24°18'W	27.8	----	ESE	5
26	1 Mar	1130Z	01°40'S	24°47'W	27.9	35.62	ESE	4
27	1 Mar	1250Z	01°20'S	25°10'W	28.0	----	ESE	7
28	1 Mar	1435Z	01°00'S	25°33'W	28.1	35.91	ESE	10
29	1 Mar	1614Z	00°40'S	25°58'W	28.2	----	VAR	2
30	1 Mar	1732Z	00°20'S	26°17'W	27.7	35.14	VAR	2
31	1 Mar	1925Z	00°00'	26°50'W	28.2	----	LT VAR	----

XBT Section 23, 27 Feb-3 Mar 82
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	1 Mar	2110Z	00°20'N	27°14'W	28.2	35.47	NNE	5
33	1 Mar	2250Z	00°40'N	27°38'W	28.0	---	NE	7
34	2 Mar	0030Z	01°00'N	28°03'W	27.5	34.49	NE	8
35	2 Mar	0205Z	01°20'N	28°31'W	27.8	---	NE	14
36	2 Mar	0346Z	01°40'N	28°55'W	27.1	35.55	NE	13
37	2 Mar	0528Z	02°00'N	29°20'W	27.0	---	NE	15
38	2 Mar	0715Z	02°20'N	29°40'W	27.1	35.53	NE	14
39	2 Mar	0906Z	02°40'N	30°09'W	27.0	---	NE	15
40	2 Mar	1040Z	03°00'N	30°33'W	26.9	35.63	NE	14
41	2 Mar	1230Z	03°20'N	31°02'W	26.5	---	NE	17
42	2 Mar	1410Z	03°40'N	31°31'W	26.7	36.30	NNE	11
43	2 Mar	1558Z	04°00'N	32°00'W	26.8	---	ENE	15
44	2 Mar	1820Z	04°20'N	32°23'W	26.7	36.02	NE	15
45	2 Mar	1922Z	04°40'N	32°49'W	26.9	---	NE	15
46	2 Mar	2112Z	05°00'N	33°18'W	26.3	36.11	NE	12
47	2 Mar	2250Z	05°20'N	33°42'W	26.4	---	NE	12
48	3 Mar	0035Z	05°40'N	34°10'W	26.4	35.99	ENE	13
49	3 Mar	0217Z	06°00'N	34°35'W	26.4	---	ENE	10
50	3 Mar	0353Z	06°20'N	34°58'W	26.5	36.16	ENE	12
51	3 Mar	0534Z	06°40'N	35°23'W	26.3	---	ENE	15
52	3 Mar	0726Z	07°00'N	35°46'W	26.1	36.22	NE	25
53	3 Mar	0907Z	07°20'N	36°10'W	26.0	---	NE	14
54	3 Mar	1050Z	07°40'N	36°35'W	25.9	36.33	NE	15
55	3 Mar	1235Z	08°00'N	37°03'W	26.2	---	NE	15
56	3 Mar	1433Z	08°20'N	38°11'W	26.2	36.34	NE	18
57	3 Mar	1618Z	08°40'N	38°35'W	26.1	---	NE	15
58	3 Mar	1800Z	09°00'N	39°03'W	26.1	36.59	NE	16
59	3 Mar	2010Z	09°20'N	39°31'W	26.0	---	NE	16
60	3 Mar	2140Z	09°40'N	39°55'W	25.0	36.48	NE	16
61	3 Mar	2315Z	10°00'N	40°16'W	24.7	---	NE	16

S. A. CONSTANTIA

27 FEB. - 3 MAR. 1982

27 FEB - 3 MAR 1982

S.A. CONSTANTIA

XBT Section 24, 21-27 Apr 82
S.A. Constantia, crossing equator at 24°35'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	21 Apr	2350Z	10°00'N	41°32'W	26.4	---	NE	12
2	22 Apr	0200Z	09°40'N	40°56'W	26.4	---	NE	13
3	22 Apr	0350Z	09°20'N	40°25'W	26.5	36.24	NE	13
4	22 Apr	0545Z	09°00'N	39°54'W	26.3	---	NE	13
5	22 Apr	0753Z	08°40'N	39°20'W	25.8	36.15	ENE	12
6	22 Apr	0946Z	08°20'N	38°46'W	26.7	---	ENE	12
7	22 Apr	1200Z	08°00'N	38°10'W	26.6	36.32	ENE	15
8	22 Apr	1411Z	07°40'N	37°31'W	27.0	---	NE	15
9	22 Apr	1620Z	07°20'N	36°55'W	27.2	36.39	NE	15
10	22 Apr	1825Z	07°00'N	36°20'W	27.3	---	NE	15
11	22 Apr	2028Z	06°40'N	35°46'W	27.0	36.15	NE	8
12	22 Apr	2230Z	06°20'N	35°14'W	26.7	---	NE	13
13	23 Apr	0030Z	06°00'N	34°40'W	27.0	36.23	NE	12
14	23 Apr	0228Z	05°40'N	34°09'W	27.1	---	NE	13
15	23 Apr	0438Z	05°20'N	33°34'W	27.4	35.93	NE	12
16	23 Apr	0637Z	05°00'N	33°03'W	27.4	---	NE	12
17	23 Apr	0845Z	04°40'N	32°30'W	27.4	35.72	NE	12
18	23 Apr	1035Z	04°20'N	32°02'W	27.4	---	NE	12
19	23 Apr	1230Z	04°00'N	31°30'W	27.6	35.56	N	12
20	23 Apr	1438Z	03°40'N	30°56'W	27.2	---	N	4
21	23 Apr	1654Z	03°20'N	30°18'W	27.6	35.62	NE	8
22	23 Apr	1848Z	03°00'N	29°48'W	27.7	---	NE	8
23	23 Apr	2056Z	02°40'N	29°13'W	27.9	35.77	N	5
24	23 Apr	2305Z	02°20'N	28°39'W	28.0	---	N	12
25	24 Apr	0130Z	02°00'N	28°07'W	28.4	35.89	N	12
26	24 Apr	0315Z	01°40'N	27°30'W	28.4	---	C	---
27	24 Apr	0522Z	01°20'N	26°55'W	28.5	35.99	C	---
28	24 Apr	0724Z	01°00'N	26°21'W	28.2	---	C	---
29	24 Apr	0931Z	00°40'N	25°44'W	28.1	36.27	C	---
30	24 Apr	1135Z	00°20'N	25°10'W	28.0	---	E	10
31	24 Apr	1335Z	00°00'	24°35'W	28.2	36.02	E	12

XBT Section 24, 21-27 Apr 82
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	24 Apr	1547Z	00°20'S	24°00'W	28.7	---	E	5
33	24 Apr	1752Z	00°40'S	23°25'W	28.5	36.02	E	5
34	24 Apr	1949Z	01°00'S	22°51'W	28.3	---	SE	5
35	24 Apr	2146Z	01°20'S	22°19'W	28.2	36.00	SE	8
36	24 Apr	2345Z	01°40'S	21°47'W	27.9	---	SE	8
37	25 Apr	0137Z	02°00'S	21°10'W	27.9	36.38	ENE	13
38	25 Apr	0332Z	02°20'S	20°43'W	27.7	---	ENE	10
39	25 Apr	0516Z	02°40'S	20°15'W	27.6	36.03	ENE	8
40	25 Apr	0725Z	03°00'S	19°43'W	27.7	---	ESE	11
41	25 Apr	0918Z	03°20'S	19°11'W	27.8	36.12	SE	14
42	25 Apr	1130Z	03°40'S	18°36'W	27.7	---	SE	14
43	25 Apr	1322Z	04°00'S	18°06'W	27.8	35.86	SE	14
44	25 Apr	1525Z	04°20'S	17°35'W	28.0	---	SE	14
45	25 Apr	1730Z	04°40'S	17°04'W	28.0	36.20	SE	4
46	25 Apr	1937Z	05°00'S	16°31'W	28.0	---	SE	10
47	25 Apr	2150Z	05°20'S	16°04'W	27.9	35.98	SE	13
48	25 Apr	2355Z	05°40'S	15°24'W	27.7	---	SE	13
49	26 Apr	0153Z	06°00'S	14°53'W	27.7	35.72	SE	13
50	26 Apr	0357Z	06°20'S	14°20'W	27.7	---	SE	13
51	26 Apr	0600Z	06°40'S	13°46'W	27.6	35.86	ESE	13
52	26 Apr	0802Z	07°00'S	13°14'W	27.6	---	SE	15
53	26 Apr	1010Z	07°20'S	12°40'W	27.5	36.29	SE	13
54	26 Apr	1215Z	07°40'S	12°08'W	27.5	---	SE	14
55	26 Apr	1425Z	08°00'S	11°29'W	27.9	36.49	SE	15
56	26 Apr	1621Z	08°20'S	11°00'W	27.1	---	SE	15
57	26 Apr	1836Z	08°40'S	10°24'W	26.8	36.64	SE	10
58	26 Apr	2043Z	09°00'S	09°50'W	26.8	---	SE	15
59	26 Apr	2248Z	09°20'S	09°18'W	26.5	36.59	SE	13
60	27 Apr	0040Z	09°40'S	08°48'W	26.5	---	SE	13
61	27 Apr	0246Z	10°00'S	08°14'W	26.2	36.63	SE	15

XBT Section 25, 29 Mar-6 Apr 82
Esso Le Havre, crossing equator at 09°50'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	29 Mar	0640Z	10°00'S	02°02'W	26.3	36.65	SSE	17
2	29 Mar	0935Z	09°40'S	02°18'W	26.5	----	SSE	18
3	29 Mar	1235Z	09°20'S	02°33'W	26.9	36.04	SE	20
4	29 Mar	1530Z	09°00'S	02°48'W	27.2	----	SE	20
5	29 Mar	1840Z	08°40'S	03°05'W	27.2	36.04	SE	20
6	29 Mar	2140Z	08°20'S	03°20'W	27.5	----	SE	15
7	30 Mar	0034Z	08°00'S	03°33'W	27.6	35.95	SE	15
8	30 Mar	0348Z	07°40'S	03°45'W	27.6	----	SE	15
9	30 Mar	0664Z	07°20'S	04°04'W	27.7	35.69	SE	15
10	30 Mar	1015Z	07°00'S	04°23'W	27.9	----	SE	10
11	30 Mar	1305Z	06°40'S	04°45'W	28.0	35.52	SE	18
12	30 Mar	1610Z	06°20'S	04°54'W	28.1	----	SE	18
13	30 Mar	1915Z	06°00'S	05°10'W	28.0	35.66	SE	15
14	30 Mar	2220Z	05°40'S	05°26'W	27.7	----	SE	15
15	31 Mar	0110Z	05°20'S	05°40'W	27.6	35.69	SE	15
16	31 Mar	0415Z	05°00'S	05°57'W	27.5	----	SE	10
17	31 Mar	0720Z	04°40'S	06°12'W	27.7	35.56	SE	10
18	31 Mar	1030Z	04°20'S	06°24'W	27.9	----	SE	15
19	31 Mar	1350Z	04°00'S	06°43'W	28.2	35.63	SE	15
20	31 Mar	-----	03°40'S	07°01'W	28.1	----	SE	10
21	31 Mar	2040Z	03°20'S	07°18'W	28.2	35.79	SE	10
22	1 Apr	0005Z	03°00'S	07°34'W	28.5	----	SE	10
23	1 Apr	0350Z	02°40'S	07°53'W	28.5	35.67	SE	10
24	1 Apr	0700Z	02°20'S	08°09'W	28.3	----	SE	15
25	1 Apr	1035Z	02°00'S	08°25'W	28.3	35.50	SE	18
26	1 Apr	1345Z	01°40'S	08°40'W	28.2	----	SE	18
27	1 Apr	1710Z	01°20'S	08°56'W	28.2	35.62	SE	18
28	1 Apr	2015Z	01°00'S	09°12'W	28.0	----	SE	15
29a	1 Apr	2315Z	00°40'S	09°25'W	27.6	35.69	SE	10
29b	2 Apr	0100Z	00°30'S	09°30'W	27.6	----	SE	10
30a	2 Apr	0215Z	00°20'S	09°36'W	27.4	----	SE	10
30b	2 Apr	0430Z	00°10'S	09°42'W	27.3	----	SE	10

XBT Section 25, 29 Mar-6 Apr 82
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
31b	2 Apr	0810Z	00°10'N	09°59'W	27.4	35.65	SE	15
32a	2 Apr	0945Z	00°20'N	10°05'W	27.7	----	SE	15
32b	2 Apr	1130Z	00°30'N	10°12'W	28.0	----	SE	15
33a	2 Apr	1250Z	00°40'N	10°16'W	28.2	35.59	SE	15
33b	2 Apr	1430Z	00°50'N	10°21'W	28.6	----	SE	15
34	2 Apr	1610Z	01°00'N	10°37'W	29.2	----	SE	15
35	2 Apr	1955Z	01°20'N	10°55'W	29.4	34.99	SE	15
36	2 Apr	2345Z	01°40'N	11°14'W	29.6	----	SE	15
37	3 Apr	0230Z	02°00'N	11°32'W	29.6	35.13	SE	15
38	3 Apr	0530Z	02°20'N	11°45'W	29.6	----	SSE	11
39a	3 Apr	0824Z	02°40'N	12°03'W	29.4	----	S	15
39b	3 Apr	-----	02°50'N	12°11'W	29.4	----	S	15
40	3 Apr	1130Z	03°00'N	12°17'W	29.4	34.96	N	10
41	3 Apr	1430Z	03°20'N	12°22'W	29.3	34.83	NE	5
42	3 Apr	1725Z	03°40'N	12°38'W	29.4	----	NE	5
43	3 Apr	2100Z	04°00'N	12°45'W	29.4	34.80	C	----
44	4 Apr	0002Z	04°20'N	13°06'W	29.6	----	C	----
45	4 Apr	0340Z	04°40'N	(13°21'W)	29.3	34.83	NW	10
46	4 Apr	0715Z	05°00'N	13°37'W	29.4	----	NW	10
47	4 Apr	1945Z	05°20'N	13°50'W	29.7	35.10	NW	10
48	4 Apr	1406Z	05°40'N	14°06'W	29.9	----	NW	10
49	4 Apr	1735Z	06°00'N	14°25'W	30.0	35.30	NW	10
50	4 Apr	2105Z	06°20'N	14°38'W	29.4	----	NW	10
51	5 Apr	0030Z	06°40'N	14°55'W	28.1	35.82	NW	10
52	5 Apr	0340Z	07°00'N	15°07'W	27.2	----	NW	10
53	5 Apr	0700Z	07°20'N	15°27'W	27.0	35.66	NW	10
54	5 Apr	1020Z	07°40'N	15°43'W	26.7	----	NW	10
56	5 Apr	1345Z	08°00'N	15°59'W	27.3	35.92	NW	10
57	5 Apr	1640Z	08°20'N	16°16'W	26.0	----	NW	10
58	5 Apr	1950Z	08°40'N	16°29'W	25.4	35.91	NW	10
59	5 Apr	2225Z	09°00'N	16°45'W	25.0	----	NW	10
60	6 Apr	0240Z	09°20'N	16°59'W	23.7	35.76	NW	10

ESSO LE HAVRE

29 MAR-6 APR 1982

XBT Section 26, 30 May-3 Jun 82
S.A. Constantia, crossing equator at 22°47'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	30 May	0923Z	10°00'S	11°18'W	25.6	----	SE	14
2	30 May	1058Z	09°40'S	11°43'W	25.8	36.63	SE	14
3	30 May	1238Z	09°20'S	12°08'W	26.2	----	SE	14
4	30 May	1410Z	09°00'S	12°28'W	26.3	36.60	SE	14
5	30 May	1541Z	08°40'S	12°53'W	26.5	----	E	14
6	30 May	1725Z	08°20'S	13°20'W	----	----	E	14
7	30 May	1858Z	08°00'S	13°43'W	----	----	E	14
8	30 May	2032Z	07°40'S	14°07'W	26.8	35.99	ESE	14
9	30 May	2204Z	07°20'S	14°24'W	27.0	----	ESE	14
10	30 May	----	07°00'S	14°51'W	27.0	36.08	ESE	14
11	31 May	0115Z	06°40'S	15°16'W	27.1	----	SE	14
12	31 May	0247Z	06°20'S	15°37'W	27.2	35.81	SE	14
13	31 May	0418Z	06°00'S	15°59'W	27.3	----	SE	10
14	31 May	0552Z	05°40'S	16°22'W	27.2	35.51	SE	10
15	31 May	0735Z	05°20'S	16°44'W	27.2	----	SE	10
16	31 May	0758Z	05°00'S	17°08'W	27.1	35.46	SE	5
17	31 May	1027Z	04°40'S	17°28'W	27.1	----	SE	5
18	31 May	1154Z	04°20'S	17°50'W	27.1	35.64	SE	5
19	31 May	1325Z	04°00'S	18°10'W	27.0	----	SE	10
20	31 May	1500Z	03°40'S	18°35'W	27.1	35.81	SE	10
21	31 May	1630Z	03°20'S	18°57'W	27.3	----	SE	10
22	31 May	1809Z	03°00'S	19°20'W	27.3	35.61	ESE	8
23	31 May	1925Z	02°40'S	19°47'W	27.3	----	ESE	8
24	30 May	----	02°20'S	(20°10'W)	----	35.77	SE	8
25	31 May	2231Z	02°00'S	20°32'W	27.2	----	SE	8
26	31 May	2352Z	01°40'S	20°58'W	26.9	35.58	SE	8
27	1 Jun	0125Z	01°20'S	21°20'W	26.7	----	SE	8
28	1 Jun	0253Z	01°00'S	21°41'W	26.4	36.20	SE	8
29	1 Jun	0421Z	00°40'S	22°08'W	25.8	----	ESE	6
30	1 Jun	0547Z	00°20'S	22°28'W	25.8	35.96	ESE	6
31	1 Jun	0718Z	00°00'	22°47'W	25.7	----	ESE	6

XBT Section 26, 30 May-3 Jun 82
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	1 Jun	0843Z	00°20'N	23°11'W	26.0	36.05	ESE	6
33	1 Jun	1015Z	00°40'N	(23°33'W)	26.6	---	SSE	10
34	1 Jun	1144Z	01°00'N	23°56'W	27.4	35.58	SSE	14
35	1 Jun	1319Z	01°20'N	24°21'W	27.7	---	SSE	14
36	1 Jun	1449Z	01°40'N	24°44'W	27.9	35.39	SSE	14
37	1 Jun	1630Z	02°00'N	25°13'W	27.8	---	SSE	14
38	1 Jun	1806Z	02°20'N	25°36'W	28.1	35.04	SSE	14
39	1 Jun	1932Z	02°40'N	25°59'W	28.3	---	SSE	14
40	1 Jun	2102Z	03°00'N	26°29'W	28.2	35.12	SSE	14
41	1 Jun	2244Z	03°20'N	26°50'W	28.2	---	E	8
42	2 Jun	0030Z	03°40'N	27°14'W	28.0	35.04	LV	1
43	2 Jun	0132Z	04°00'N	27°34'W	28.1	---	LV	1
44	2 Jun	0258Z	04°20'N	27°56'W	28.0	35.07	LV	1
45	2 Jun	0428Z	04°40'N	28°18'W	27.7	---	LV	1
46	2 Jun	-----	05°00'N	(28°39'W)	---	34.41	LV	1
47	2 Jun	0732Z	05°20'N	29°00'W	27.3	---	LV	1
48	2 Jun	0904Z	05°40'N	29°21'W	27.6	34.78	ENE	10
49	2 Jun	1044Z	06°00'N	29°45'W	27.5	---	NNE	16
50	2 Jun	1210Z	06°20'N	30°06'W	27.6	35.39	NNE	16
51	2 Jun	1340Z	06°40'N	30°28'W	27.6	---	NNE	16
52	2 Jun	1510Z	07°00'N	30°50'W	27.8	35.48	NNE	16
53	2 Jun	1641Z	07°20'N	31°11'W	27.5	---	NNE	16
54	2 Jun	1806Z	07°40'N	31°35'W	27.3	35.48	NE	16
55	2 Jun	1948Z	08°00'N	31°58'W	26.8	---	NE	16
56	2 Jun	2131Z	08°20'N	32°23'W	26.8	35.99	NE	16
57	2 Jun	2254Z	08°40'N	32°44'W	26.4	---	NE	16
58	3 Jun	0035Z	09°00'N	33°08'W	26.3	36.29	NE	10
59	3 Jun	0207Z	09°20'N	33°31'W	26.3	---	NE	10
60	3 Jun	0341Z	09°40'N	33°54'W	26.6	---	NE	14
61	3 Jun	0512Z	10°00'N	34°16'W	26.5	---	NE	12

30 MAY-3 JUNE 1982

S.A. CONSTANTIA

S. A. CONSTANTIA

30 MAY - 3 JUN 1982

XBT Section 27, 24-29 Jul 82
S.A. Constantia, crossing equator at 15°57'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	24 Jul	1508Z	10°00'N	30°07'W	27.5	---	NW	6
2	24 Jul	1657Z	09°40'N	29°40'W	27.5	35.49	NW	6
3	24 Jul	1843Z	09°20'N	29°10'W	27.9	---	NE	12
4	24 Jul	2028Z	09°00'N	(28°40'W)	27.8	35.87	NW	6
5	24 Jul	2224Z	08°40'N	28°10'W	28.2	---	S	6
6	25 Jul	0012Z	08°20'N	27°41'W	27.4	35.12	SSW	6
7	25 Jul	0200Z	08°00'N	27°11'W	27.4	---	SSW	10
8	25 Jul	0402Z	07°40'N	26°36'W	27.4	35.15	SSW	12
9	25 Jul	0557Z	07°20'N	26°05'W	27.1	---	S	14
10	25 Jul	0800Z	07°00'N	25°34'W	27.3	34.73	S	14
11	25 Jul	1001Z	06°40'N	25°02'W	27.5	---	SSE	14
12	25 Jul	1200Z	06°20'N	24°32'W	27.3	34.47	SSW	17
13	25 Jul	1253Z	06°00'N	24°00'W	27.4	---	SSW	17
14	25 Jul	----	05°40'N	(23°30'W)	27.5	34.92	SE	15
15	25 Jul	1753Z	05°20'N	23°00'W	27.4	---	---	---
16	25 Jul	1948Z	05°00'N	22°32'W	27.2	35.64	---	---
17	25 Jul	2136Z	04°40'N	22°04'W	27.2	---	---	---
18	25 Jul	2354Z	04°20'N	21°39'W	26.7	35.89	---	---
19	26 Jul	0127Z	04°00'N	21°10'W	26.2	---	SE	10
20	26 Jul	0336Z	03°40'N	20°39'W	26.3	35.35	SE	14
21	26 Jul	0530Z	03°20'N	20°03'W	25.9	---	---	---
22	26 Jul	0722Z	03°00'N	19°43'W	24.4	35.59	---	---
23	26 Jul	0920Z	02°40'N	19°20'W	24.7	---	SE	14
24	26 Jul	1130Z	02°20'N	18°54'W	24.7	35.36	SE	14
25	26 Jul	1300Z	02°00'N	18°32'W	23.6	---	SE	14
26	26 Jul	1456Z	01°40'N	18°10'W	23.5	35.84	SE	14
27	26 Jul	1647Z	01°20'N	17°45'W	22.7	---	ENE	10
28	26 Jul	1838Z	01°00'N	17°22'W	22.0	36.03	ENE	10
29	26 Jul	2028Z	00°40'N	16°52'W	22.0	---	E	8
30	26 Jul	----	00°20'N	16°25'W	22.1	36.30	ESE	10
31	27 Jul	0022Z	00°00'	15°57'W	22.0	---	SE	10

XBT Section 27, 24-29 Jul 82
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	27 Jul	0212Z	00°20'S	15°33'W	21.8	36.02	SE	10
33	27 Jul	0404Z	00°40'S	15°03'W	21.8	----	SE	10
34	27 Jul	0602Z	01°00'S	14°34'W	21.7	35.65	SE	10
35	27 Jul	0726Z	01°20'S	14°12'W	21.9	----	SE	10
36	27 Jul	0911Z	01°40'S	13°46'W	21.5	36.08	ESE	12
37	27 Jul	1107Z	02°00'S	13°18'W	21.5	----	ESE	12
38	27 Jul	1231Z	02°20'S	12°56'W	21.3	35.83	ESE	12
39	27 Jul	----	02°40'S	(12°33'W)	----	----	ESE	12
40	27 Jul	1530Z	03°00'S	12°11'W	22.2	35.84	ESE	12
41	27 Jul	1706Z	03°20'S	11°49'W	22.3	----	ESE	12
42	27 Jul	1848Z	03°40'S	11°23'W	----	35.87	ESE	12
43	27 Jul	2035Z	04°00'S	11°00'W	23.1	----	ESE	12
44	27 Jul	2231Z	04°20'S	10°33'W	24.0	36.26	SSE	12
45	28 Jul	0002Z	04°40'S	10°10'W	24.2	----	SSE	12
46	28 Jul	0153Z	05°00'S	09°45'W	24.5	35.96	SSE	14
47	28 Jul	0348Z	05°20'S	09°17'W	24.7	----	SSE	14
48	28 Jul	0536Z	05°40'S	08°51'W	24.6	35.24	SE	15
49	28 Jul	0720Z	06°00'S	08°26'W	24.4	----	SE	16
50	28 Jul	0906Z	06°20'S	08°00'W	24.3	36.23	SE	16
51	28 Jul	1050Z	06°40'S	07°35'W	23.2	----	SE	20
52	28 Jul	1244Z	07°00'S	07°08'W	23.0	35.76	SE	20
53	28 Jul	1423Z	07°20'S	06°45'W	23.4	----	SE	16
54	28 Jul	1602Z	07°40'S	06°21'W	23.2	35.68	SE	16
55	28 Jul	1747Z	08°00'S	05°55'W	23.7	----	SE	16
56	28 Jul	1930Z	08°20'S	05°30'W	23.8	36.26	SE	17
57	28 Jul	2015Z	08°40'S	05°03'W	23.7	----	SE	17
58	28 Jul	2305Z	09°00'S	04°37'W	23.8	36.23	SE	17
59	29 Jul	0052Z	09°20'S	04°11'W	23.7	----	SE	12
60	29 Jul	0244Z	09°40'S	03°43'W	23.5	36.37	SE	16
61	29 Jul	0420Z	10°00'S	03°17'W	23.4	----	SE	14

S.A. CONSTANTIA

24 - 29 JUL 1982

LATITUDE

XBT Section 28, 6-17 Jun 82
Esso Hawaii, crossing equator at 09°51'W

135

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	9 Jun	1415Z	10°00'S	02°04'W	25.2	----	SE	9
2	9 Jun	1747Z	09°40'S	02°19'W	25.0	36.26	SE	9
3	9 Jun	2100Z	09°20'S	02°35'W	25.1	----	SE	10
4	10 Jun	0010Z	09°00'S	02°50'W	25.4	35.91	SE	9
5	10 Jun	0333Z	08°40'S	03°06'W	25.7	----	SE	9
6	10 Jun	0650Z	08°20'S	03°22'W	25.7	35.56	SSE	10
7	10 Jun	1010Z	08°00'S	03°38'W	25.8	----	SSE	15
8	10 Jun	1315Z	07°40'S	03°53'W	25.8	35.18	SSE	12
9	10 Jun	1625Z	07°20'S	04°12'W	25.8	----	SSE	12
10	10 Jun	2000Z	07°00'S	04°28'W	26.1	35.66	SSE	15
11	10 Jun	2252Z	06°40'S	04°43'W	26.2	----	SSE	15
12	11 Jun	0140Z	06°20'S	04°57'W	26.2	35.65	SE	17
13	11 Jun	0500Z	06°00'S	05°08'W	26.1	----	SE	18
14	11 Jun	0815Z	05°40'S	05°30'W	25.8	35.53	SE	20
15	11 Jun	1120Z	05°20'S	05°45'W	25.4	----	SSE	22
16	11 Jun	1421Z	05°00'S	06°03'W	25.4	35.97	SSE	20
17	11 Jun	1720Z	04°40'S	06°18'W	25.6	----	SE	20
18	11 Jun	2010Z	04°20'S	06°31'W	25.5	35.91	SSE	25
19	11 Jun	2315Z	04°00'S	06°48'W	25.2	----	SSE	25
20	12 Jun	0217Z	03°40'S	07°03'W	24.9	36.06	SSE	25
21	12 Jun	0525Z	03°20'S	07°20'W	25.9	----	SE	25
22	12 Jun	0838Z	03°00'S	07°36'W	24.7	35.89	SSE	25
23	12 Jun	1110Z	02°40'S	08°50'W	----	----	SSE	25
24	12 Jun	1405Z	02°20'S	08°03'W	24.8	35.91	SSE	25
25	12 Jun	1721Z	02°00'S	08°18'W	24.5	----	SE	25
26	12 Jun	2005Z	01°40'S	08°30'W	24.0	36.11	SE	25
27	12 Jun	2315Z	01°20'S	08°47'W	23.7	----	SE	23
28	13 Jun	0213Z	01°00'S	09°04'W	23.2	35.99	SE	19
29	13 Jun	0520Z	00°40'S	09°20'W	23.0	----	SE	18
30a	13 Jun	0820Z	00°20'S	09°36'W	22.5	35.97	SE	16
30b	13 Jun	1045Z	00°10'S	09°44'W	22.7	----	SE	16

XBT Section 28, 6-17 Jun 82
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
31a	13 Jun	1113Z	00°00'	09°51'W	22.7	----	SE	9
31b	13 Jun	----	00°10'N	09°56'W	23.2	----	SE	12
32	13 Jun	1442Z	00°20'N	10°09'W	23.6	35.54	SE	9
33	13 Jun	1820Z	00°40'N	10°27'W	25.0	----	SE	12
34	13 Jun	2155Z	01°00'N	10°46'W	26.1	35.18	SE	12
35	14 Jun	0040Z	01°20'N	10°58'W	26.6	----	SE	10
36	14 Jun	0420Z	01°40'N	11°09'W	27.3	34.89	SE	17
37	14 Jun	0710Z	02°00'N	11°29'W	27.6	----	SE	20
38	14 Jun	1000Z	02°20'N	11°41'W	27.8	35.03	SE	20
39	14 Jun	1240Z	02°40'N	11°57'W	27.9	----	SE	20
40	14 Jun	1605Z	03°00'N	12°14'W	28.2	35.18	SE	25
41	14 Jun	1900Z	03°20'N	12°27'W	28.1	----	SE	25
42	14 Jun	2205Z	03°40'N	12°43'W	28.1	35.89	SE	25
43	15 Jun	0130Z	04°00'N	12°59'W	28.0	----	SE	22
44	15 Jun	0500Z	04°20'N	13°11'W	27.8	34.85	SE	22
45	15 Jun	0910Z	04°40'N	13°30'W	27.7	----	S	22
46	15 Jun	1240Z	05°00'N	13°46'W	27.7	34.80	S	17
47	15 Jun	1636Z	05°20'N	14°00'W	27.7	----	SSE	15
48	15 Jun	2015Z	05°40'N	14°17'W	27.8	34.87	----	----
49	15 Jun	2345Z	06°00'N	14°34'W	27.9	----	SSE	6
50	16 Jun	0315Z	06°20'N	14°52'W	28.2	35.09	WSW	6
51	16 Jun	0635Z	06°40'N	15°07'W	27.9	----	C	----
52	16 Jun	0954Z	07°00'N	15°21'W	28.2	34.97	S	6
53	16 Jun	1315Z	07°20'N	15°36'W	28.0	----	C	----
54	16 Jun	1700Z	07°40'N	15°54'W	28.0	34.91	C	----
55	16 Jun	2010Z	08°00'N	16°09'W	28.0	----	S	5
56	16 Jun	2330Z	08°20'N	16°26'W	28.1	35.84	S	5
57	17 Jun	0240Z	08°40'N	16°43'W	27.8	----	S	5
58	17 Jun	0600Z	09°00'N	16°59'W	27.8	35.50	C	----
59	17 Jun	0900Z	09°20'N	17°12'W	27.8	----	C	----
60	17 Jun	1218Z	09°40'N	17°27'W	28.1	35.57	C	----
61	17 Jun	1549Z	10°00'N	17°44'W	28.0	----	C	----

XBT Section 29, 29 Jul-1 Aug 82
S.A. Waterberg, crossing equator at 09°02'W

140

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	29 Jul	0345Z	10°00'S	01°20'W	22.8	---	ESE	18
2	29 Jul	0510Z	09°40'S	(01°33'W)	23.0	---	ESE	18
3	29 Jul	0628Z	09°20'S	01°46'W	22.9	---	ESE	18
4	29 Jul	0746Z	09°00'S	02°01'W	23.3	---	ESE	18
5	29 Jul	0902Z	08°40'S	02°12'W	23.3	---	ESE	18
6	29 Jul	1020Z	08°20'S	02°34'W	23.6	---	ESE	18
7	29 Jul	1145Z	08°00'S	02°49'W	23.7	---	ESE	18
8	29 Jul	1320Z	07°40'S	03°05'W	23.7	---	ESE	18
9	29 Jul	1436Z	07°20'S	03°22'W	23.7	---	ESE	18
10	29 Jul	1555Z	07°00'S	03°37'W	23.7	---	ESE	16
11	29 Jul	1720Z	06°40'S	03°48'W	23.8	---	ESE	16
12	29 Jul	1845Z	06°20'S	(04°04'W)	23.8	---	ESE	16
13	29 Jul	2010Z	06°00'S	04°19'W	23.8	---	ESE	16
14	29 Jul	2125Z	05°40'S	04°34'W	23.7	---	ESE	16
15	29 Jul	(2245Z)	05°20'S	(04°47'W)	23.2	---	ESE	16
16	30 Jul	0001Z	05°00'S	05°00'W	23.2	---	ESE	16
17	30 Jul	0115Z	04°40'S	05°26'W	23.1	---	ESE	16
18	30 Jul	0235Z	04°20'S	05°39'W	23.0	---	ESE	16
19	30 Jul	0350Z	04°00'S	05°53'W	23.2	---	ESE	16
20	30 Jul	0510Z)	03°40'S	(06°11'W)	23.0	---	ESE	16
21	30 Jul	0640Z	03°20'S	06°29'W	23.0	---	ESE	16
22	30 Jul	0808Z	03°00'S	06°49'W	22.5	---	SSE	16
23	30 Jul	0930Z	02°40'S	(07°00'W)	22.6	---	SSE	16
25	30 Jul	1148Z	02°00'S	(07°25'W)	22.0	---	SSE	16
26	30 Jul	1310Z	01°40'S	(07°35'W)	23.0	---	SE	16
27	30 Jul	1434Z	01°20'S	(08°00'W)	22.7	---	SE	16
28	30 Jul	1628Z	01°00'S	(08°20'W)	22.8	---	SE	16
29a	30 Jul	1713Z	00°40'S	08°27'W	23.5	---	SE	16
29b	30 Jul	1750Z	00°30'S	08°37'W	23.2	---	---	---
30a	30 Jul	1830Z	00°20'S	08°45'W	23.2	---	SE	16
30b	30 Jul	1900Z	00°10'S	08°53'W	23.2	---	---	---

XBT Section 29, 29 Jul-1 Aug 82
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
31a	30 Jul	1955Z	00°00'	09°02'W	23.5	---	SE	16
31b	30 Jul	2031Z	00°10'N	09°10'W	24.0	---	---	---
32a	30 Jul	2105Z	00°20'N	09°17'W	24.5	---	SE	16
32b	30 Jul	2140Z	00°30'N	09°24'W	25.0	---	---	---
33	30 Jul	2230Z	00°40'N	09°07'W	25.0	---	SE	16
34	30 Jul	2330Z	01°00'N	09°47'W	25.4	---	SE	16
35	31 Jul	0045Z	01°20'N	10°06'W	25.4	---	SE	16
36	31 Jul	0200Z	01°40'N	10°22'W	25.7	---	SE	16
37	31 Jul	0320Z	02°00'N	10°38'W	25.6	---	S	16
38	31 Jul	0425Z	02°20'N	10°49'W	25.5	---	S	16
39	31 Jul	0540Z	02°40'N	11°07'W	25.3	---	S	16
40	31 Jul	0655Z	03°00'N	11°20'W	25.0	---	S	16
41	31 Jul	(0810Z)	03°20'N	11°34'W	24.4	---	S	16
42	31 Jul	----	03°40'N	(11°53'W)	26.4	---	S	16
43	31 Jul	----	04°00'N	(12°11'W)	26.4	---	SSW	18
44	31 Jul	1306Z	04°40'N	12°30'W	26.1	---	SSW	18
45a	31 Jul	1426Z	05°00'N	12°43'W	26.4	---	SSW	18
45b	31 Jul	1430Z	05°02'N	12°43'W	26.5	---	SSW	18
46	31 Jul	1600Z	05°20'N	12°56'W	26.6	---	---	---
47	31 Jul	1753Z	05°40'N	13°13'W	26.3	---	SW	18
48	31 Jul	1905Z	06°00'N	13°31'W	26.4	---	SW	18
49	31 Jul	2025Z	06°20'N	13°42'W	26.7	---	SW	18
50	31 Jul	2140Z	06°40'N	13°54'W	26.7	---	SW	18
51	31 Jul	2305Z	07°00'N	14°11'W	27.0	---	SW	18
52	1 Aug	0035Z	07°20'N	14°31'W	29.8	---	SW	18
53	1 Aug	0205Z	07°40'N	14°49'W	31.3	---	SW	16

XBT Section 30, 25-28 Aug 82
S.A. Waterberg, crossing equator at 09°01'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	25 Aug	0915Z	09°20'N	16°08'W	28.5	----	SSW	15
2	25 Aug	1040Z	09°00'N	15°55'W	28.0	34.77	SSW	15
3	25 Aug	1215Z	08°40'N	15°40'W	29.1	----	SW	15
4	25 Aug	1341Z	08°20'N	(15°25'W)	28.8	35.02	SW	15
5	25 Aug	1512Z	08°00'N	(15°10'W)	28.0	----	SW	15
6	25 Aug	(1636Z)	07°40'N	(14°55'W)	----	35.11	SW	15
7	25 Aug	1800Z	07°20'N	14°40'W	28.2	----	SW	15
8	25 Aug	1935Z	07°00'N	14°24'W	27.9	----	SW	15
9	25 Aug	----	06°40'N	(14°15'W)	----	----	SW	15
10	25 Aug	----	06°20'N	(14°05'W)	----	35.99	SW	15
11	26 Aug	0025Z	06°00'N	13°55'W	29.5	----	SW	15
12	26 Aug	0135Z	05°40'N	13°22'W	28.5	35.03	SW	15
13	26 Aug	----	05°20'N	(13°05'W)	----	----	SW	15
14	26 Aug	----	05°00'N	(12°50'W)	----	----	SW	15
15	26 Aug	----	04°40'N	(12°35'W)	----	----	SW	18
16	26 Aug	----	04°20'N	(12°20'W)	----	----	SW	18
17	26 Aug	----	04°00'N	(12°05'W)	----	----	SW	18
18	26 Aug	----	03°40'N	(11°50'W)	----	----	SW	18
19	26 Aug	1135Z	03°20'N	11°35'W	26.0	----	SW	20
20	26 Aug	1230Z	03°00'N	11°22'W	25.7	35.50	SW	20
21	26 Aug	1427Z	02°40'N	11°09'W	25.1	----	SW	20
22	26 Aug	1557Z	02°20'N	10°53'W	25.4	35.58	SW	17
23	26 Aug	1740Z	02°00'N	10°40'W	25.3	----	SW	17
24	26 Aug	1915Z	01°40'N	10°24'W	25.2	35.49	SSE	17
25	26 Aug	2045Z	01°20'N	10°08'W	25.4	----	SSE	17
26	26 Aug	2215Z	01°00'N	09°50'W	24.2	35.50	SSE	17
27	26 Aug	2345Z	00°40'N	09°41'W	22.5	----	C	----
27b	27 Aug	0027Z	00°30'N	09°35'W	22.3	----	----	----
28	27 Aug	----	00°20'N	09°27'W	22.2	35.64	C	----
28b	27 Aug	0200Z	00°10'N	09°15'W	21.9	----	----	----
29	27 Aug	0243Z	00°00	09°01'W	22.0	35.72	C	----

XBT Section 30, 25-28 Aug 82
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
29b	27 Aug	0333Z	00°10'S	08°58'W	21.8	---	---	---
30	27 Aug	----	00°20'S	(08°50'W)	---	35.73	SE	5
30b	27 Aug	0510Z	00°30'S	08°43'W	21.7	---	---	---
31	27 Aug	0555Z	00°40'S	08°34'W	21.8	---	SE	---
32	27 Aug	0735Z	01°00'S	08°18'W	21.8	35.68	SE	5
33	27 Aug	0910Z	01°20'S	08°07'W	22.1	---	SW	9
34	27 Aug	1035Z	01°40'S	07°48'W	22.3	---	SW	9
35	27 Aug	1213Z	02°00'S	07°34'W	22.6	---	SW	9
36	27 Aug	1348Z	02°20'S	07°16'W	22.7	---	SW	9
37	27 Aug	1513Z	02°40'S	07°03'W	22.6	---	SE	5
38	27 Aug	1650Z	03°00'S	06°47'W	22.6	35.83	SE	5
39	27 Aug	1730Z	03°10'S	06°39'W	22.7	---	SE	10
39b	27 Aug	1815Z	03°20'S	06°31'W	22.4	---	---	---
40	27 Aug	1940Z	03°40'S	06°20'W	22.3	35.82	SE	10
41	27 Aug	2110Z	04°00'S	06°08'W	22.6	---	SE	10
42	27 Aug	2240Z	04°20'S	05°50'W	22.3	35.89	SE	10
43	28 Aug	0010Z	04°40'S	05°40'W	22.3	---	SE	10
44	28 Aug	0150Z	05°00'S	05°28'W	22.7	35.98	SE	10
45	28 Aug	0325Z	05°20'S	05°15'W	23.1	---	SE	10
46	28 Aug	0455Z	05°40'S	05°01'W	23.0	36.01	SE	15
47	28 Aug	0620Z	06°00'S	04°53'W	22.6	---	SE	15
48	28 Aug	0805Z	06°20'S	04°32'W	22.6	35.98	SE	15
49	28 Aug	0940Z	06°40'S	(04°08'W)	22.3	---	SE	15
50	28 Aug	1125Z	07°00'S	(03°44'W)	22.3	---	SE	15
51	28 Aug	1430Z	07°40'S	03°20'W	22.7	36.13	SE	15
52	28 Aug	1615Z	08°00'S	03°13'W	22.6	---	ESE	20
53	28 Aug	1748Z	08°20'S	03°00'W	22.5	36.18	ESE	20
54	28 Aug	1925Z	08°40'S	02°46'W	22.8	---	ESE	20
55	28 Aug	2100Z	09°00'S	02°25'W	22.7	---	ESE	20
56	28 Aug	2240Z	09°20'S	02°12'W	22.5	---	ESE	20

XBT Section 31, 31 Aug-5 Sep 82
S.A. Constantia, crossing equator at 43°00'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	31 Aug	2023Z	10°00'S	26°07'W	25.7	---	E	15
2	31 Aug	2238Z	09°40'S	26°43'W	25.5	36.69	---	---
3	1 Sep	0044Z	09°20'S	27°17'W	25.7	---	---	---
4	1 Sep	0251Z	09°00'S	27°52'W	26.0	36.42	ESE	15
5	1 Sep	0500Z	08°40'S	28°26'W	26.0	---	ESE	14
6	1 Sep	0705Z	08°20'S	29°00'W	26.2	---	ESE	12
7	1 Sep	0908Z	08°00'S	29°31'W	26.1	---	ESE	15
8	1 Sep	1124Z	07°40'S	30°07'W	25.9	36.17	ESE	20
9	1 Sep	1339Z	07°20'S	30°42'W	26.3	---	ESE	20
10	1 Sep	1552Z	07°00'S	31°18'W	26.7	35.98	ESE	18
11	1 Sep	1756Z	06°40'S	31°48'W	26.3	---	ESE	10
12	1 Sep	2014Z	06°20'S	32°25'W	26.1	35.96	ESE	15
13	1 Sep	2220Z	06°00'S	32°59'W	26.3	---	ESE	12
14	2 Sep	0037Z	05°40'S	33°34'W	26.3	36.13	SE	10
15	2 Sep	0248Z	05°20'S	34°09'W	26.3	---	SE	---
16	2 Sep	0449Z	05°00'S	34°44'W	26.4	36.11	---	149
17	2 Sep	0654Z	04°40'S	35°16'W	26.4	---	SE	---
18	2 Sep	0850Z	04°20'S	35°52'W	26.3	36.42	---	---
19	2 Sep	1040Z	04°00'S	36°24'W	26.4	---	ESE	18
20	2 Sep	1306Z	03°40'S	37°04'W	26.4	36.29	ESE	20
21	2 Sep	----	03°20'S	37°37'W	26.3	---	ESE	20
22	2 Sep	1704Z	03°00'S	38°05'W	26.4	36.39	ESE	18
23	2 Sep	1900Z	02°40'S	38°47'W	26.4	---	ESE	18
24	2 Sep	2105Z	02°20'S	39°18'W	26.6	36.20	ESE	15
25	2 Sep	2300Z	02°00'S	39°52'W	26.6	---	ESE	16
26	3 Sep	0102Z	01°40'S	40°25'W	26.6	35.73	ESE	18
27	3 Sep	0258Z	01°20'S	40°58'W	26.7	---	ESE	20
28	3 Sep	0452Z	01°00'S	41°29'W	26.6	36.19	ESE	20
29	3 Sep	0720Z	00°40'S	42°11'W	----	---	ESE	20
30	3 Sep	0900Z	00°20'S	42°33'W	27.0	36.26	ESE	20
31	3 Sep	1040Z	00°00'	43°00'W	26.9	---	ESE	20

XBT Section 31, 31 Aug-5 Sep 82
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(‰)	Wind Dir. (from)	Wind Spd. (knots)
32	3 Sep	1238Z	00°20'N	43°26'W	26.9	36.27	ESE	20
33	3 Sep	1428Z	00°40'N	43°56'W	27.0	----	ESE	20
34	3 Sep	1606Z	01°00'N	44°24'W	27.5	36.45	ESE	20
35	3 Sep	1804Z	01°20'N	44°54'W	27.4	----	ESE	18
36	3 Sep	2020Z	01°40'N	45°27'W	27.2	36.20	ESE	18
37	3 Sep	2220Z	02°00'N	45°59'W	27.1	----	ESE	18
38	3 Sep	2318Z	02°20'N	46°22'W	27.1	36.15	ESE	18
39	4 Sep	0056Z	02°40'N	46°48'W	27.1	----	E	10
40	4 Sep	0238Z	03°00'N	47°16'W	27.0	34.46	----	----
41	4 Sep	0409Z	03°20'N	47°43'W	27.0	----	----	----
42	4 Sep	-----	03°40'N	48°08'W	26.9	36.05	E	10
43	4 Sep	0720Z	04°00'N	(48°33'W)	27.0	----	E	10
44	4 Sep	0855Z	04°20'N	48°59'W	27.0	36.27	ESE	10
45	4 Sep	1029Z	04°40'N	49°28'W	27.1	----	----	----
46	4 Sep	1211Z	05°00'N	49°53'W	28.2	31.31	----	----
47	4 Sep	1408Z	05°20'N	50°23'W	28.3	----	----	----
48	4 Sep	1601Z	05°40'N	50°53'W	28.8	26.89	----	----
49	4 Sep	1747Z	06°00'N	51°30'W	28.5	----	SE	10
50	4 Sep	1914Z	06°20'N	51°44'W	28.8	26.38	SE	5
51	4 Sep	2050Z	06°40'N	52°08'W	28.7	----	NE	11
52	4 Sep	2225Z	07°00'N	52°31'W	27.7	31.69	L.AIRS	----
53	5 Sep	0003Z	07°20'N	52°58'W	27.2	----	NE	7
54	5 Sep	0144Z	07°40'N	53°21'W	28.4	34.79	NE	6
55	5 Sep	0338Z	08°00'N	53°47'W	28.7	----	L.AIRS	----
56	5 Sep	0531Z	08°20'N	54°18'W	29.0	33.40	L.AIRS	----
57	5 Sep	0722Z	08°40'N	54°47'W	28.8	----	L.AIRS	----
58	5 Sep	0900Z	09°00'N	55°10'W	28.7	34.11	L.AIRS	----
59	5 Sep	1126Z	09°20'N	55°45'W	28.7	----	E	4
60	5 Sep	1233Z	09°40'N	56°01'W	28.8	33.81	E	4
61	5 Sep	1430Z	10°00'N	56°29'W	28.6	----	E	4

150

XBT Section 32, 8-13 Oct 82
S.A. Constantia, crossing equator at 24°13'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	8 Oct	2126Z	10°00'N	36°25'W	27.7	---	L.AIRS	---
2	8 Oct	2320Z	09°40'N	35°57'W	27.9	34.13	L.AIRS	---
3	9 Oct	0059Z	09°20'N	35°34'W	28.2	---	L.AIRS	---
4	9 Oct	0240Z	09°00'N	35°05'W	28.3	34.01	SE	6
5	9 Oct	0422Z	08°40'N	34°40'W	28.3	---	SE	6
6	9 Oct	0557Z	08°20'N	34°18'W	28.2	34.87	SE	6
7	9 Oct	0730Z	08°00'N	33°57'W	28.3	---	SE	8
8	9 Oct	0913Z	07°40'N	33°32'W	28.2	34.71	SE	8
9	9 Oct	1110Z	07°20'N	33°09'W	28.3	---	SE	8
10	9 Oct	1236Z	07°00'N	32°43'W	28.1	35.07	SE	8
11	9 Oct	1422Z	06°40'N	32°14'W	28.2	---	SE	8
12	9 Oct	1605Z	06°20'N	31°52'W	27.9	36.07	SE	8
13	9 Oct	1743Z	06°00'N	31°28'W	28.0	---	SE	10
14	9 Oct	1917Z	05°40'N	31°06'W	27.9	35.97	SE	10
15	9 Oct	2053Z	05°20'N	30°45'W	28.0	---	SE	10
16	9 Oct	2242Z	05°00'N	30°19'W	27.7	35.68	SE	10
17	10 Oct	0025Z	04°40'N	29°56'W	27.7	---	SE	10
18	10 Oct	0156Z	04°20'N	29°35'W	27.7	36.03	SE	10
19	10 Oct	0340Z	04°00'N	29°12'W	27.6	---	SE	10
20	10 Oct	0524Z	03°40'N	28°50'W	27.2	35.89	SE	12
21	10 Oct	(0658Z)	03°20'N	28°25'W	27.3	---	SE	14
22	10 Oct	0833Z	03°00'N	28°04'W	27.2	35.90	SE	10
23	10 Oct	1012Z	02°40'N	27°42'W	26.5	---	SE	16
24	10 Oct	1200Z	02°20'N	27°17'W	26.2	35.85	SE	18
25	10 Oct	1347Z	02°00'N	26°51'W	26.2	---	SSE	18
26	10 Oct	1543Z	01°40'N	26°24'W	26.6	36.01	SSE	18
27	10 Oct	1728Z	01°20'N	25°58'W	26.1	---	SSE	18
28	10 Oct	1934Z	01°00'N	25°33'W	25.8	36.21	SSE	18
29	10 Oct	2132Z	00°40'N	25°05'W	25.6	---	SSE	18
30	10 Oct	2328Z	00°20'N	24°38'W	25.5	---	SE	18
31	11 Oct	0120Z	00°00'	24°13'W	25.4	---	SE	18

XBT Section 32, 8-13 Oct 82
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	11 Oct	0259Z	00°20'S	23°50'W	25.8	36.21	SE	18
33	11 Oct	0443Z	00°40'S	23°26'W	25.5	----	SE	18
34	11 Oct	0632Z	01°00'S	23°00'W	25.5	36.33	SSE	17
35	11 Oct	0811Z	01°20'S	22°36'W	25.6	----	SSE	17
36	11 Oct	1000Z	01°40'S	22°08'W	25.6	35.95	SSE	17
37	11 Oct	1152Z	02°00'S	21°44'W	25.6	----	SSE	17
38	11 Oct	1342Z	02°20'S	21°20'W	25.6	36.29	ESE	17
39	11 Oct	1536Z	02°40'S	20°54'W	25.7	----	ESE	18
40	11 Oct	1720Z	03°00'S	20°31'W	25.8	36.50	ESE	18
41	11 Oct	1905Z	03°20'S	20°06'W	25.1	----	ESE	18
42	11 Oct	(2055Z)	03°40'S	19°41'W	24.9	35.25	ESE	18
43	11 Oct	2245Z	04°00'S	19°15'W	25.0	----	ESE	16
44	12 Oct	0040Z	04°20'S	18°49'W	24.9	35.40	ESE	16
45	12 Oct	0214Z	04°40'S	18°29'W	24.9	----	SSE	18
46	12 Oct	0342Z	05°00'S	18°08'W	24.9	35.00	SSE	18
47	12 Oct	0534Z	05°20'S	17°41'W	24.2	----	SE	16
48	12 Oct	0710Z	05°40'S	17°19'W	24.2	35.02	SE	18
49	12 Oct	0900Z	06°00'S	16°53'W	24.2	----	SE	16
50	12 Oct	1042Z	06°20'S	16°30'W	24.3	35.17	SE	16
51	12 Oct	1225Z	06°40'S	16°04'W	24.3	----	SE	16
52	12 Oct	1415Z	07°00'S	15°39'W	24.0	35.92	SE	16
53	12 Oct	1505Z	07°20'S	15°13'W	----	----	SE	16
54	12 Oct	1758Z	07°40'S	14°49'W	23.8	35.99	SE	16
55	12 Oct	1928Z	08°00'S	14°26'W	----	----	SE	16
56	12 Oct	2108Z	08°20'S	14°00'W	23.4	36.43	SE	16
57	12 Oct	2251Z	08°40'S	13°39'W	23.5	----	SE	16
58	13 Oct	0035Z	09°00'S	13°15'W	23.6	36.22	SE	16
59	13 Oct	0214Z	09°20'S	12°52'W	23.5	----	ESE	16
60	13 Oct	0353Z	09°40'S	12°29'W	23.4	36.22	ESE	16
61	13 Oct	0534Z	10°00'S	12°03'W	23.3	----	SE	16

XBT Section 33, 22-26 Nov 82
S.A. Constantia, crossing equator at 25°30'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	22 Nov	1354Z	10°00'S	13°30'W	24.3	36.20	SSE	10
2	22 Nov	1527Z	09°40'S	13°54'W	24.0	---	---	---
3	22 Nov	1700Z	09°20'S	14°20'W	24.3	36.01	SE	---
4	22 Nov	1830Z	09°00'S	14°40'W	24.4	---	ESE	---
5	22 Nov	2014Z	08°40'S	15°07'W	24.5	36.05	SSE	---
6	22 Nov	2146Z	08°20'S	15°31'W	24.6	---	SSE	10
7	22 Nov	2319Z	08°00'S	15°55'W	24.6	---	---	---
8	23 Nov	0057Z	07°40'S	16°21'W	24.6	---	---	---
9	23 Nov	0238Z	07°20'S	16°45'W	24.7	35.96	---	---
10	23 Nov	0410Z	07°00'S	17°09'W	24.8	---	---	---
11	23 Nov	0545Z	06°40'S	17°33'W	25.0	35.91	---	---
12	23 Nov	0720Z	06°20'S	17°59'W	25.1	---	ESE	10
13	23 Nov	0856Z	06°00'S	18°24'W	25.2	35.94	---	---
14	23 Nov	1038Z	05°40'S	18°49'W	25.3	---	---	---
15	23 Nov	1205Z	05°20'S	19°12'W	25.2	36.01	---	---
16	23 Nov	1342Z	05°00'S	19°37'W	25.6	---	---	---
17	23 Nov	1530Z	04°40'S	20°03'W	25.7	36.13	---	---
18	23 Nov	1647Z	04°20'S	20°22'W	25.8	---	ESE	8
19	23 Nov	1820Z	04°00'S	20°48'W	25.6	36.19	---	---
20	23 Nov	1955Z	03°40'S	21°12'W	---	---	---	---
21	23 Nov	(2100Z)	03°20'S	21°36'W	26.0	36.39	ESE	8
22	23 Nov	2206Z	03°00'S	22°02'W	---	---	ESE	8
23	23 Nov	2334Z	02°40'S	22°26'W	26.0	36.05	---	---
24	24 Nov	0217Z	02°20'S	22°52'W	25.8	---	---	---
25	24 Nov	0345Z	02°00'S	23°15'W	26.1	36.20	---	---
26	24 Nov	0512Z	01°40'S	23°36'W	25.9	---	---	---
27	24 Nov	0823Z	01°20'S	23°56'W	26.0	36.28	SE	9
28	24 Nov	0956Z	01°00'S	24°18'W	---	---	---	---
29	24 Nov	1114Z	00°40'S	24°43'W	---	35.97	---	---
30	24 Nov	(1320Z)	00°20'S	(25°06'W)	---	---	---	---
31	24 Nov	1526Z	00°00'	25°30'W	26.0	36.01	E	---

XBT Section 33, 22-26 Nov 82
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	24 Nov	1600Z	00°20'N	25°56'W	26.4	---	ESE	6
33	24 Nov	1822Z	00°40'N	26°17'W	26.9	36.72	---	---
34	24 Nov	1953Z	01°00'N	26°42'W	26.8	---	---	---
35	24 Nov	2029Z	01°20'N	27°09'W	26.8	36.85	---	---
36	24 Nov	2155Z	01°40'N	27°37'W	26.9	---	---	---
37	24 Nov	2335Z	02°00'N	28°00'W	27.0	36.98	---	---
38	25 Nov	0205Z	02°20'N	28°23'W	27.0	---	---	---
39	25 Nov	0335Z	02°40'N	28°47'W	26.7	35.90	---	---
40	25 Nov	0459Z	03°00'N	29°08'W	26.7	---	ESE	10
41	25 Nov	0626Z	03°20'N	29°31'W	26.8	35.69	---	---
42	25 Nov	(0800Z)	03°40'N	29°52'W	27.7	---	ESE	10
43	25 Nov	0938Z	04°00'N	(30°14'W)	---	35.67	ESE	6
44	25 Nov	(1100Z)	04°20'N	30°35'W	27.2	---	---	---
45	25 Nov	(1230Z)	04°40'N	31°03'W	---	35.49	NE	10
46	25 Nov	1414Z	05°00'N	31°23'W	27.5	---	---	---
47	25 Nov	1557Z	05°20'N	31°48'W	27.4	35.75	---	---
48	25 Nov	(1737Z)	05°40'N	32°14'W	27.5	---	E	6
49	25 Nov	1920Z	06°00'N	32°40'W	27.5	35.73	SE	8
50	25 Nov	2100Z	06°20'N	33°01'W	---	---	SE	8
51	25 Nov	(2230Z)	06°40'N	33°24'W	27.4	35.67	NE	2
52	26 Nov	(0000Z)	07°00'N	33°43'W	27.4	---	---	---
53	26 Nov	(0130Z)	07°20'N	34°00'W	27.1	35.84	---	---
54	26 Nov	0249Z	07°40'N	34°23'W	27.2	---	---	---
55	26 Nov	0416Z	08°00'N	34°42'W	27.0	35.94	---	---
56	26 Nov	0542Z	08°20'N	35°03'W	27.0	---	---	---
57	26 Nov	0714Z	08°40'N	35°26'W	27.2	---	NE	9
58	26 Nov	0900Z	09°00'N	35°53'W	---	---	---	---
59	26 Nov	1041Z	09°20'N	36°18'W	27.0	35.78	---	---
60	26 Nov	1207Z	09°40'N	36°41'W	---	---	---	---
61	26 Nov	1345Z	10°00'N	37°05'W	26.8	35.97	NE	16

XBT Section 34, 29 Dec 82-3 Jan 83
S.A. Constantia, crossing equator at 25°42'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	29 Dec	1238Z	10°00'N	36°49'W	25.3	35.45	NE	17
2	29 Dec	1438Z	09°40'N	35°42'W	25.6	----	ENE	17
3	29 Dec	1649Z	09°20'N	35°19'W	26.2	36.17	ENE	17
4	29 Dec	1850Z	09°00'N	34°57'W	----	----	E	14
5	29 Dec	2105Z	08°40'N	34°34'W	25.9	35.78	E	14
6	29 Dec	2218Z	08°20'N	34°16'W	27.0	----	E	14
7	30 Dec	0005Z	08°00'N	33°54'W	27.0	35.48	E	14
8	30 Dec	0209Z	07°40'N	33°31'W	27.0	----	ENE	14
9	30 Dec	0400Z	07°20'N	33°10'W	27.0	35.66	ENE	12
10	30 Dec	0548Z	07°00'N	32°49'W	27.0	----	NE	10
11	30 Dec	0725Z	06°40'N	32°29'W	27.1	35.07	NE	12
12	30 Dec	0915Z	06°20'N	32°07'W	27.1	----	NE	12
13	30 Dec	1115Z	06°00'N	31°49'W	27.0	35.57	NE	8
14	30 Dec	1313Z	05°40'N	31°25'W	27.0	----	NE	8
15	30 Dec	1451Z	05°20'N	31°08'W	27.0	----	NE	8
16	30 Dec	1642Z	05°00'N	30°47'W	27.1	----	NE	12
17	30 Dec	1850Z	04°40'N	30°24'W	27.1	35.66	NE	10
18	30 Dec	2020Z	04°20'N	30°02'W	27.1	----	NE	12
19	30 Dec	2034Z	04°00'N	29°40'W	27.0	35.76	NNE	7
20	30 Dec	2216Z	03°40'N	29°21'W	27.0	----	NNE	5
21	31 Dec	(0100Z)	03°20'N	29°02'W	27.0	35.67	NNE	5
22	31 Dec	0250Z	03°00'N	28°50'W	27.0	----	NNE	5
23	31 Dec	0440Z	02°40'N	28°22'W	26.8	36.06	NE	6
24	31 Dec	0635Z	02°20'N	28°00'W	26.0	----	SSE	10
25	31 Dec	0841Z	02°00'N	27°42'W	26.1	35.97	SSE	5
26	31 Dec	1327Z	01°40'N	27°23'W	26.2	36.06	SE	5
27	31 Dec	1533Z	01°20'N	27°01'W	26.4	35.89	SE	5
28	31 Dec	1730Z	01°00'N	26°42'W	----	----	SSE	5
29	31 Dec	1912Z	00°40'N	26°23'W	26.4	35.89	SSE	5
30	31 Dec	2115Z	00°20'N	26°02'W	26.0	----	SSE	5
31	31 Dec	2306Z	00°00'	25°42'W	26.0	36.00	SSE	5

XBT Section 34, 29 Dec 82-3 Jan 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	1 Jan	0230Z	00°20'S	25°17'W	25.9	----	SSE	5
33	1 Jan	0417Z	00°40'S	24°58'W	26.0	36.06	SE	9
34	1 Jan	0610Z	01°00'S	24°37'W	26.0	----	SE	9
35	1 Jan	0805Z	01°20'S	24°16'W	26.1	36.25	SE	9
36	1 Jan	0930Z	01°40'S	23°57'W	25.9	----	SE	9
37	1 Jan	1103Z	02°00'S	23°36'W	25.8	36.24	SE	5
38	1 Jan	1258Z	02°20'S	23°17'W	26.0	----	SE	10
39	1 Jan	1610Z	02°40'S	22°54'W	26.2	36.34	SE	10
40	1 Jan	1805Z	03°00'S	22°34'W	26.0	----	SE	5
41	1 Jan	1940Z	03°20'S	22°15'W	26.1	36.09	SE	5
42	1 Jan	(2110Z)	03°40'S	21°56'W	25.8	----	SE	3
43	1 Jan	2240Z	04°00'S	(21°36'W)	25.8	35.80	SE	3
44	2 Jan	0140Z	04°20'S	21°14'W	25.8	----	SE	3
45	2 Jan	0340Z	04°40'S	20°56'W	25.7	36.00	SE	8
46	2 Jan	0530Z	05°00'S	20°37'W	25.7	----	SE	9
47	2 Jan	0730Z	05°20'S	20°17'W	----	----	SE	7
48	2 Jan	0829Z	05°40'S	19°56'W	25.7	----	ESE	3
49	2 Jan	1037Z	06°00'S	19°34'W	25.6	35.95	ESE	3
50	2 Jan	1329Z	06°20'S	19°15'W	26.0	----	SE	12
51	2 Jan	1530Z	06°40'S	18°52'W	26.2	36.25	SE	8
52	2 Jan	1728Z	07°00'S	18°30'W	25.8	----	SE	8
53	2 Jan	1910Z	07°20'S	18°02'W	25.7	36.18	ESE	13
54	2 Jan	2006Z	07°40'S	17°47'W	25.7	----	SE	8
55	2 Jan	2204Z	08°00'S	17°26'W	25.6	36.44	SE	8
56	3 Jan	0104Z	08°20'S	17°05'W	25.6	----	SE	8
57	3 Jan	0250Z	08°40'S	16°45'W	25.6	36.07	SE	8
58	3 Jan	0445Z	09°00'S	16°25'W	25.4	----	ESE	10
59	3 Jan	0700Z	09°20'S	16°00'W	25.3	36.29	ESE	10
60	3 Jan	0856Z	09°40'S	15°41'W	25.1	----	ESE	10
61	3 Jan	1053Z	10°00'S	15°19'W	25.0	36.14	ESE	12

XBT Section 35, 30 Jan-5 Feb 83
S.A. Constantia, crossing equator at 24°38'W

167

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	30 Jan	2148Z	10°00'S	12°20'W	25.5	36.49	SE	11
2	30 Jan	2345Z	09°40'S	12°42'W	25.4	---	SE	12
3	31 Jan	0150Z	09°20'S	13°00'W	25.7	36.60	SE	12
4	31 Jan	0334Z	09°00'S	13°24'W	25.9	---	SE	12
5	31 Jan	0528Z	08°40'S	13°40'W	25.6	36.14	ESE	16
6	31 Jan	0720Z	08°20'S	14°05'W	26.7	---	ESE	16
7	31 Jan	0912Z	08°00'S	14°26'W	25.7	36.52	SE	18
8	31 Jan	1105Z	07°40'S	14°47'W	26.1	---	SE	14
9	31 Jan	1327Z	07°20'S	15°14'W	26.3	36.39	SE	16
10	31 Jan	1525Z	07°00'S	15°38'W	26.2	---	SE	16
11	31 Jan	1630Z	06°40'S	16°08'W	26.3	36.38	SE	14
12	31 Jan	1920Z	06°20'S	16°26'W	26.7	---	SE	12
13	31 Jan	2100Z	06°00'S	16°50'W	26.6	35.97	SE	12
14	31 Jan	2300Z	05°40'S	17°15'W	26.4	---	SE	12
15	1 Feb	0114Z	05°20'S	17°42'W	26.8	36.10	SE	14
16	1 Feb	0377Z	05°00'S	18°10'W	26.9	---	SE	14
17	1 Feb	0527Z	04°40'S	18°33'W	26.9	35.96	SE	14
18	1 Feb	0740Z	04°20'S	19°00'W	27.0	---	ESE	14
19	1 Feb	0940Z	04°00'S	19°25'W	26.9	35.91	ESE	14
20	1 Feb	1156Z	03°40'S	19°53'W	26.8	---	ESE	14
21	1 Feb	(1403Z)	03°20'S	20°20'W	27.0	36.05	ESE	15
22	1 Feb	1610Z	03°00'S	20°46'W	27.1	---	ESE	14
23	1 Feb	1810Z	02°40'S	21°12'W	27.2	36.51	ESE	14
24	1 Feb	2025Z	02°20'S	21°30'W	27.1	---	ESE	14
25	1 Feb	2156Z	02°00'S	22°04'W	27.0	36.48	SE	14
26	1 Feb	2350Z	01°40'S	22°27'W	27.1	---	SE	10
27	2 Feb	0220Z	01°20'S	22°56'W	27.0	36.13	SE	10
28	2 Feb	0428Z	01°00'S	23°20'W	26.8	---	SE	8
29	2 Feb	0642Z	00°40'S	23°46'W	26.7	36.04	SE	8
30	2 Feb	0845Z	00°20'S	24°11'W	26.7	---	SE	10
31	2 Feb	1100Z	00°00'	24°38'W	26.7	36.10	SE	10

XBT Section 35, 30 Jan-5 Feb 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	2 Feb	1315Z	00°20'N	25°02'W	27.3	----	SE	10
33	2 Feb	1550Z	00°40'N	25°37'W	27.6	36.04	NW	10
34	2 Feb	1635Z	00°58'N	25°57'W	27.8	----	NW	10
35	2 Feb	2000Z	01°24'N	26°32'W	27.5	35.82	NW	10
36	2 Feb	2130Z	01°40'N	26°54'W	27.5	----	NW	8
37	2 Feb	2345Z	02°04'N	27°24'W	27.3	36.17	NW	6
38	3 Feb	0125Z	02°20'N	27°45'W	27.3	----	NW	6
39	3 Feb	0335Z	02°40'N	28°11'W	27.7	35.49	NW	5
40	3 Feb	0550Z	03°00'N	28°39'W	27.3	----	NW	5
41	3 Feb	0610Z	03°20'N	29°02'W	27.6	35.38	NE	5
42	3 Feb	0758Z	03°40'N	29°29'W	27.2	----	NE	7
43	3 Feb	1132Z	04°00'N	29°51'W	27.2	----	NE	7
44	3 Feb	1400Z	04°20'N	30°15'W	27.3	----	NE	8
45	3 Feb	1623Z	04°40'N	30°42'W	27.3	35.87	NE	8
46	3 Feb	1755Z	05°00'N	31°04'W	27.1	----	NE	10
47	3 Feb	2250Z	05°20'N	31°39'W	27.1	35.78	NNE	10
48	4 Feb	0115Z	05°40'N	32°05'W	27.0	----	NNE	12
49	4 Feb	0306Z	06°00'N	32°26'W	26.8	36.03	NNE	10
50	4 Feb	0522Z	06°20'N	32°50'W	26.7	----	NNE	9
51	4 Feb	0745Z	06°40'N	33°17'W	26.5	36.34	NNE	9
52	4 Feb	(0950Z)	07°00'N	33°39'W	26.1	----	NNE	10
53	4 Feb	1155Z	07°20'N	34°03'W	26.0	36.25	NE	12
54	4 Feb	1434Z	07°40'N	34°31'W	26.4	----	NE	11
55	4 Feb	1658Z	08°00'N	35°00'W	26.8	36.05	NE	12
56	4 Feb	1941Z	08°41'N	36°00'W	27.0	----	NE	12
57	4 Feb	2330Z	09°00'N	36°30'W	26.8	36.07	NE	12
58	5 Feb	0145Z	09°20'N	36°50'W	26.5	----	NE	12
59	5 Feb	0351Z	09°40'N	37°12'W	25.2	36.32	NE	15
60	5 Feb	0556Z	10°00'N	37°37'W	25.5	----	NE	20

S.A. CONSTANTIA

30 JAN - 5 FEB 1983

S. A. CONSTANTIA

30 JAN - 5 FEB 1983

XBT Section 36, 19-24 Mar 83
S.A. Constantia, crossing equator at 26°10'W

171

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	19 Mar	2150Z	10°00'N	39°13'W	26.7	36.09	NE	12
2	19 Mar	2345Z	09°40'N	38°45'W	27.0	----	NE	12
3	20 Mar	(0130Z)	09°12'N	38°12'W	27.0	36.02	NE	20
4	20 Mar	0311Z	09°00'N	37°53'W	27.1	----	NE	20
5	20 Mar	0450Z	08°40'N	37°28'W	27.1	36.24	NE	17
6	20 Mar	0625Z	08°20'N	37°04'W	27.1	----	NE	17
7	20 Mar	0800Z	08°00'N	36°37'W	27.0	36.17	NE	17
8	20 Mar	0955Z	07°40'N	36°08'W	26.9	----	NE	17
9	20 Mar	1128Z	07°20'N	35°48'W	27.0	35.82	NE	17
10	20 Mar	1310Z	07°00'N	35°21'W	27.0	----	NE	17
11	20 Mar	1500Z	06°40'N	34°53'W	27.5	35.89	NE	15
12	20 Mar	1643Z	06°20'N	34°26'W	27.6	----	NE	13
13	20 Mar	1832Z	06°00'N	34°01'W	27.6	35.81	NE	12
14	20 Mar	2020Z	05°40'N	33°32'W	27.5	----	NE	12
15	20 Mar	2200Z	05°20'N	33°09'W	27.4	36.08	NE	12
16	20 Mar	2345Z	05°00'N	32°44'W	27.5	----	NE	12
17	21 Mar	0136Z	04°40'N	32°17'W	27.5	35.91	NE	12
18	21 Mar	0324Z	04°20'N	31°52'W	27.3	----	NE	12
19	21 Mar	0513Z	04°00'N	31°25'W	27.9	35.67	NE	12
20	21 Mar	0704Z	03°40'N	30°56'W	28.0	----	NE	10
21	21 Mar	0849Z	03°20'N	30°32'W	27.9	35.67	NE	10
22	21 Mar	1030Z	03°00'N	30°07'W	27.7	----	NE	12
23	21 Mar	1300Z	02°40'N	29°30'W	27.8	35.85	NE	12
24	21 Mar	(1437Z)	02°20'N	29°12'W	27.8	----	ENE	12
25	21 Mar	1614Z	02°00'N	28°45'W	28.0	35.72	ENE	8
26	21 Mar	1752Z	01°40'N	28°19'W	28.1	----	ENE	8
27	21 Mar	1940Z	01°20'N	27°54'W	27.9	36.02	ENE	8
28	21 Mar	2158Z	01°00'N	27°26'W	27.8	----	ENE	8
29	21 Mar	2324Z	00°40'N	27°03'W	27.5	36.54	ENE	10
30	22 Mar	0105Z	00°20'N	26°36'W	27.4	----	SE	10
31	22 Mar	0251Z	00°00'	26°10'W	27.3	36.25	SE	10

XBT Section 36, 19-24 Mar 83
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	22 Mar	0434Z	00°20'S	25°45'W	27.2	----	SE	10
33	22 Mar	0630Z	00°40'S	25°16'W	25.6	36.15	SE	10
34	22 Mar	0817Z	01°00'S	24°52'W	27.6	----	SE	10
35	22 Mar	1002Z	01°20'S	24°23'W	27.7	35.78	SE	12
36	22 Mar	1135Z	01°40'S	24°01'W	28.1	----	SE	12
37	22 Mar	1320Z	02°00'S	23°36'W	28.1	36.26	SE	12
38	22 Mar	(1505Z)	02°20'S	23°14'W	28.1	----	SE	12
39	22 Mar	1650Z	02°40'S	22°48'W	28.3	35.96	SE	12
40	22 Mar	2016Z	03°20'S	22°01'W	28.1	----	SE	10
41	22 Mar	2203Z	03°40'S	21°36'W	28.4	36.32	SE	10
42	22 Mar	2353Z	04°00'S	21°12'W	28.2	----	SE	10
43	23 Mar	0142Z	04°20'S	20°45'W	28.2	35.65	SE	13
44	23 Mar	0331Z	04°40'S	20°20'W	28.2	----	SE	13
45	23 Mar	0510Z	05°00'S	19°57'W	28.2	35.22	SE	13
46	23 Mar	0715Z	05°20'S	19°30'W	28.0	----	SE	15
47	23 Mar	0843Z	05°40'S	19°09'W	27.9	35.80	SE	15
48	23 Mar	1035Z	06°00'S	18°44'W	27.9	----	SE	18
49	23 Mar	1215Z	06°20'S	18°19'W	28.0	35.76	SE	18
50	23 Mar	1400Z	06°40'S	17°50'W	28.0	----	SE	18
51	23 Mar	1550Z	07°00'S	17°30'W	27.9	36.10	SE	18
52	23 Mar	1745Z	07°20'S	17°03'W	27.9	----	SE	15
53	23 Mar	1934Z	07°40'S	16°37'W	27.8	36.21	SE	10
54	23 Mar	2115Z	08°00'S	16°12'W	27.4	----	SE	10
55	23 Mar	2312Z	08°20'S	15°44'W	27.1	36.33	SE	10
56	24 Mar	0102Z	08°40'S	15°17'W	27.1	----	SE	10
57	24 Mar	0250Z	09°00'S	14°52'W	27.3	35.66	SE	10
58	24 Mar	0438Z	09°20'S	14°22'W	27.5	----	SE	10
59	24 Mar	0620Z	09°40'S	13°57'W	27.4	36.37	SE	10
60	24 Mar	0808Z	10°00'S	13°30'W	27.1	----	SE	10

S.A. CONSTANTIA

19 - 24 MAR 1983

XBT Section 37, 11-15 Mar 83
RMS Centaur, crossing equator at 15°47'W

176

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	11 Mar	1815Z	10°00'S	12°05'W	26.9	35.94	SE	16
2	11 Mar	2036Z	09°40'S	12°37'W	26.9	----	SE	16
3	11 Mar	2222Z	09°20'S	13°00'W	27.0	35.76	SE	17
4	11 Mar	2355Z	09°00'S	13°18'W	27.0	----	SE	17
5	12 Mar	0136Z	08°40'S	13°36'W	27.2	35.80	SE	17
6	12 Mar	0325Z	08°20'S	14°00'W	27.2	----	SE	17
7	12 Mar	----	(08°00'S)	(14°14'W)	----	----	SE	17
8	12 Mar	1427Z	07°40'S	14°27'W	27.3	----	SSE	16
9	12 Mar	1547Z	07°20'S	14°30'W	27.4	36.05	SSE	16
10	12 Mar	1700Z	07°00'S	14°34'W	27.5	----	SSE	16
11	12 Mar	1810Z	06°40'S	14°38'W	27.7	35.94	SSE	14
12	12 Mar	1900Z	06°20'S	14°43'W	27.8	----	SSE	12
13	12 Mar	2020Z	06°00'S	14°49'W	28.0	35.89	SE	12
14	12 Mar	2130Z	05°40'S	14°52'W	27.9	----	SE	12
15	12 Mar	2240Z	05°20'S	14°56'W	28.0	35.95	SE	12
16	12 Mar	2355Z	05°00'S	14°58'W	27.9	----	SE	12
17	13 Mar	0103Z	04°40'S	15°02'W	27.9	35.67	SE	12
18	13 Mar	0214Z	04°20'S	15°06'W	28.0	----	SE	12
19	13 Mar	0326Z	04°00'S	15°09'W	28.0	35.67	SE	12
20	13 Mar	0440Z	03°40'S	15°12'W	28.0	----	SE	12
21	13 Mar	0555Z	03°20'S	15°15'W	28.0	35.16	SE	12
22	13 Mar	0707Z	03°00'S	15°19'W	28.0	----	SE	12
23	13 Mar	0820Z	02°40'S	15°22'W	28.1	35.14	SE	12
24	13 Mar	0936Z	02°20'S	15°27'W	28.2	----	SE	12
25	13 Mar	1050Z	02°00'S	15°28'W	28.1	35.11	SE	12
26	13 Mar	1208Z	01°40'S	15°32'W	28.2	----	SE	12
27	13 Mar	1323Z	01°20'S	15°33'W	28.1	35.49	SE	12
28	13 Mar	1407Z	01°00'S	15°37'W	28.1	----	SE	12
29	13 Mar	1521Z	00°40'S	15°40'W	28.0	35.77	SE	12
30	13 Mar	1634Z	00°20'S	15°44'W	28.6	35.68	SE	12
31	13 Mar	1741Z	00°00'	15°47'W	28.6	35.92	SE	12

XBT Section 37, 11-15 Mar 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	13 Mar	1855Z	00°20'N	15°50'W	28.1	----	SSE	8
33	13 Mar	2010Z	00°40'N	15°52'W	28.0	36.03	SSE	8
34	13 Mar	2110Z	01°00'N	15°55'W	28.1	----	SSE	8
35	13 Mar	2221Z	01°20'N	15°58'W	28.6	36.34	SSE	8
36	13 Mar	2333Z	01°40'N	16°02'W	29.0	----	SSE	8
37	14 Mar	0044Z	02°00'N	16°03'W	29.1	36.25	SSE	8
38	14 Mar	0156Z	02°20'N	16°10'W	29.1	----	SSE	8
39	14 Mar	0307Z	02°40'N	16°12'W	29.2	36.12	SSE	8
40	14 Mar	0417Z	03°00'N	16°19'W	29.1	----	SSE	8
41	14 Mar	0535Z	03°20'N	16°23'W	29.1	36.23	SSE	8
42	14 Mar	0648Z	03°40'N	16°27'W	29.1	----	C	C
43	14 Mar	0800Z	04°00'N	16°30'W	29.3	36.13	SSE	12
44	14 Mar	(0910Z)	(04°20'N)	(16°34'W)	29.0	----	SSE	12
45	14 Mar	1020Z	04°40'N	16°38'W	29.2	----	SSE	12
46	14 Mar	(1135Z)	(05°00'N)	(16°41'W)	29.5	----	NNW	5
47	14 Mar	1255Z	05°20'N	16°44'W	29.3	35.98	NNW	5
48	14 Mar	1407Z	05°40'N	16°46'W	29.4	----	NNW	5
49	14 Mar	1520Z	06°00'N	16°48'W	29.4	35.52	NNW	5
50	14 Mar	1615Z	06°40'N	16°51'W	29.5	35.43	NNW	5
51	14 Mar	1850Z	07°00'N	16°58'W	29.2	----	NNW	5
52	14 Mar	2003Z	07°20'N	17°03'W	28.7	36.03	NNW	5
53	14 Mar	2118Z	07°40'N	17°07'W	28.2	----	NNW	5
54	14 Mar	2230Z	08°00'N	17°10'W	28.2	36.04	NNW	5
55	14 Mar	2343Z	08°20'N	17°13'W	28.1	----	NNW	5
56	15 Mar	0058Z	08°40'N	17°16'W	27.9	36.00	NNW	5
57	15 Mar	0214Z	09°00'N	17°20'W	27.8	----	NNW	5
58	15 Mar	0324Z	09°20'N	17°24'W	27.6	36.21	NNE	12
59	15 Mar	0437Z	09°40'N	17°27'W	26.7	----	NNE	12
60	15 Mar	0600Z	10°00'N	17°34'W	25.5	35.55	NNE	12

XBT Section 38, 7-11 Apr 83
RMS Centaur, crossing equator at 17°52'W

180

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	7 Apr	0650Z	10°00'N	22°06'W	25.7	36.51	---	---
2	7 Apr	0808Z	09°40'N	21°54'W	25.9	---	---	---
3	7 Apr	0926Z	09°20'N	21°50'W	26.0	36.94	NNE	12
4	7 Apr	1034Z	09°00'N	21°40'W	26.1	---	NNE	14
5	7 Apr	1152Z	08°40'N	21°31'W	26.1	36.66	NNE	14
6	7 Apr	1310Z	08°20'N	21°23'W	26.3	---	NNE	14
7	7 Apr	1425Z	08°00'N	21°16'W	26.8	36.31	NNE	12
8	7 Apr	1540Z	07°40'N	21°07'W	27.9	---	NNE	12
9	7 Apr	1655Z	07°20'N	20°58'W	28.0	36.17	N	10
10	7 Apr	1810Z	07°00'N	20°48'W	28.0	---	N	10
11	7 Apr	1935Z	06°40'N	20°40'W	28.1	36.07	NNE	6
12	7 Apr	2050Z	06°20'N	20°30'W	28.2	---	NNE	6
13	7 Apr	2205Z	06°00'N	20°21'W	28.5	35.89	NNE	6
14	7 Apr	2240Z	05°50'N	20°16'W	28.6	---	NNE	6
15	7 Apr	2330Z	05°30'N	20°13'W	28.9	35.92	NNE	6
15b	8 Apr	0050Z	05°20'N	20°05'W	28.9	---	NNE	6
16	8 Apr	0205Z	05°00'N	19°57'W	28.9	---	NNE	6
17	8 Apr	0320Z	04°40'N	19°50'W	29.1	35.92	C	C
18	8 Apr	(0435Z)	04°20'N	19°42'W	29.1	---	C	C
19	8 Apr	0558Z	04°00'N	19°35'W	29.1	35.95	C	C
20	8 Apr	0715Z	03°40'N	19°23'W	29.0	---	C	C
21	8 Apr	0837Z	03°20'N	19°16'W	28.9	35.97	RAIN	---
22	8 Apr	0957Z	03°00'N	19°08'W	27.8	---	SE	8
23	8 Apr	1125Z	02°40'N	19°00'W	28.0	36.00	SE	8
24	8 Apr	1245Z	02°20'N	18°52'W	27.2	---	SE	10
25	8 Apr	1408Z	02°00'N	18°43'W	27.3	35.98	SE	10
26	8 Apr	1530Z	01°40'N	18°34'W	26.7	---	SE	10
27	8 Apr	1653Z	01°20'N	18°26'W	26.8	36.07	SE	12
28	8 Apr	1825Z	01°00'N	18°25'W	28.4	---	SE	12
29	8 Apr	1940Z	00°40'N	18°09'W	28.6	35.87	SE	15
30	8 Apr	2120Z	00°20'N	18°00'W	28.1	---	SE	15
30b	8 Apr	2235Z	00°10'N	17°55'W	27.7	36.01	SE	15

XBT Section 38, 7-11 Apr 83
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
31	8 Apr	2305Z	00°00'	17°52'W	27.6	---	SE	15
31b	8 Apr	(2335Z)	00°10'S	17°48'W	27.8	---	SE	15
32	9 Apr	0020Z	00°20'S	17°43'W	27.7	---	SE	15
33	9 Apr	0152Z	00°40'S	17°35'W	27.7	36.01	SE	15
34	9 Apr	0320Z	01°00'S	17°27'W	27.6	---	SE	18
35	9 Apr	0445Z	01°20'S	17°19'W	27.1	35.54	SE	18
36	9 Apr	0610Z	01°40'S	17°10'W	27.2	---	SE	18
37	9 Apr	0730Z	02°00'S	17°00'W	27.3	35.40	SE	18
38	9 Apr	0850Z	02°20'S	16°50'W	27.3	---	SE	18
39	9 Apr	1050Z	02°50'S	16°33'W	27.6	35.38	SE	18
40	9 Apr	1130Z	03°00'S	16°26'W	27.7	---	SE	16
41	9 Apr	1250Z	03°20'S	16°18'W	27.7	35.54	SE	16
42	9 Apr	1410Z	03°40'S	16°09'W	27.6	---	SE	16
43	9 Apr	1530Z	04°00'S	16°01'W	28.3	35.62	SE	16
44	9 Apr	1640Z	04°20'S	15°54'W	28.0	---	SE	16
45	9 Apr	1810Z	04°40'S	15°46'W	28.1	35.35	SE	16
46	9 Apr	1935Z	05°00'S	15°37'W	28.1	---	SE	16
47	9 Apr	2055Z	05°20'S	15°29'W	28.3	35.27	SE	16
48	9 Apr	2220Z	05°40'S	15°22'W	28.3	---	SE	16
49	9 Apr	2340Z	06°00'S	15°14'W	28.3	36.03	SE	16
49b	9 Apr	(0020Z)	06°10'S	15°10'W	28.3	---	---	---
50	10 Apr	0100Z	06°20'S	15°10'W	28.4	---	SE	16
51	10 Apr	0220Z	06°40'S	15°06'W	28.4	36.03	SE	16
52	10 Apr	0345Z	07°00'S	14°50'W	28.4	---	SE	16
53	10 Apr	0510Z	07°20'S	14°41'W	28.2	36.04	SE	16
54	10 Apr	(0630Z)	07°40'S	(14°30'W)	---	---	SE	16
55	10 Apr	1755Z	08°02'S	14°19'W	27.5	36.25	SE	16
56	10 Apr	1940Z	08°20'S	13°57'W	27.6	---	SE	16
57	10 Apr	2130Z	08°40'S	13°38'W	27.3	36.36	SE	16
58	10 Apr	2255Z	09°00'S	13°20'W	27.4	---	ESE	16
59	11 Apr	0030Z	09°20'S	13°01'W	27.4	36.51	ESE	16

XBT Section 39, 19-24 Apr 83
S.A. Constantia, crossing equator at 39°01'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	19 Apr	0329Z	10°00'S	23°48'W	27.7	36.89	E	8
2	19 Apr	0529Z	09°40'S	24°21'W	27.6	----	E	10
3	19 Apr	0705Z	09°20'S	24°48'W	27.9	36.45	E	10
4	19 Apr	0900Z	09°00'S	25°22'W	28.0	----	E	10
5	19 Apr	1040Z	08°40'S	25°48'W	28.0	36.42	ESE	12
6	19 Apr	1235Z	08°20'S	26°20'W	28.2	----	ESE	18
7	19 Apr	1415Z	08°00'S	26°49'W	28.2	36.17	ESE	16
8	19 Apr	1600Z	07°40'S	27°17'W	28.4	----	ESE	15
9	19 Apr	1740Z	07°20'S	27°40'W	28.3	36.06	ESE	14
10	19 Apr	1940Z	07°00'S	28°20'W	28.9	----	ESE	14
11	19 Apr	2110Z	06°40'S	28°46'W	28.5	36.09	ESE	14
12	19 Apr	2310Z	06°20'S	29°17'W	28.5	----	ESE	14
13	20 Apr	0120Z	06°00'S	29°54'W	28.6	35.68	ESE	14
14	20 Apr	0250Z	05°40'S	30°20'W	28.6	----	SE	12
15	20 Apr	0450Z	05°20'S	30°43'W	28.6	35.77	SE	12
16	20 Apr	0640Z	05°00'S	31°15'W	28.5	----	SE	12
17	20 Apr	0830Z	04°40'S	31°45'W	28.6	36.19	SE	14
18	20 Apr	1020Z	04°20'S	32°15'W	28.7	----	SE	16
19	20 Apr	(1120Z)	04°00'S	32°40'W	28.7	36.37	SE	16
20	20 Apr	1335Z	03°40'S	33°05'W	28.5	----	SE	16
21	20 Apr	(1621Z)	03°20'S	33°35'W	28.6	36.25	SE	16
22	20 Apr	(1910Z)	03°00'S	(34°10'W)	----	----	SE	12
23	20 Apr	2154Z	02°40'S	34°46'W	28.6	36.21	SE	12
24	20 Apr	2341Z	02°20'S	35°16'W	28.4	----	SE	12
25	21 Apr	0125Z	02°00'S	35°51'W	28.4	36.03	SE	8
26	21 Apr	0328Z	01°40'S	36°25'W	28.1	----	ESE	8
27	21 Apr	0524Z	01°20'S	36°57'W	28.2	36.08	ESE	10
28	21 Apr	0720Z	01°00'S	37°28'W	28.2	----	ESE	10
29	21 Apr	0915Z	00°40'S	38°00'W	28.2	36.27	ESE	12
30	21 Apr	1135Z	00°20'S	38°35'W	28.1	----	ESE	12
31	21 Apr	1310Z	00°00'	39°01'W	28.1	36.19	ESE	12

XBT Section 39, 19-24 Apr 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	21 Apr	1521Z	00°20'N	39°37'W	28.4	----	ESE	12
33	21 Apr	1707Z	00°40'N	40°04'W	28.4	35.83	E	12
34	21 Apr	1902Z	01°00'N	40°34'W	28.2	----	E	12
35	21 Apr	2058Z	01°20'N	41°02'W	28.3	35.91	E	12
36	21 Apr	2300Z	01°40'N	41°33'W	28.2	----	E	12
37	22 Apr	0055Z	02°00'N	42°02'W	28.1	35.68	NE	12
38	22 Apr	0315Z	02°20'N	42°37'W	28.0	----	ENE	12
39	22 Apr	0522Z	02°40'N	43°09'W	27.8	35.94	ENE	12
40	22 Apr	0921Z	03°00'N	43°29'W	28.0	----	ENE	12
41	22 Apr	0950Z	03°20'N	44°18'W	27.8	35.99	NE	12
42	22 Apr	-----	03°40'N	44°48'W	27.6	----	NE	12
43	22 Apr	1420Z	04°00'N	45°25'W	27.9	35.90	NE	16
44	22 Apr	1628Z	04°20'N	46°00'W	27.8	----	NE	16
45	22 Apr	1841Z	04°40'N	46°36'W	27.8	35.86	NE	16
46	22 Apr	2036Z	05°00'N	47°07'W	27.7	----	NE	16
47	22 Apr	2247Z	05°20'N	47°42'W	27.7	35.86	NE	16
48	23 Apr	0045Z	05°40'N	48°15'W	27.8	----	NE	16
49	23 Apr	0235Z	06°00'N	48°44'W	-----	35.84	NE	16
50	23 Apr	(0430Z)	(06°20'N)	(49°16'W)	-----	----	NE	16
51	23 Apr	0630Z	06°40'N	49°46'W	27.8	35.88	NE	16
52	23 Apr	0906Z	07°00'N	50°31'W	27.8	----	ENE	18
53	23 Apr	1110Z	07°20'N	51°05'W	27.8	35.89	ENE	20
54	23 Apr	(1300Z)	07°40'N	51°35'W	-----	----	ENE	20
55	23 Apr	1500Z	08°00'N	52°05'W	28.0	29.23	ENE	20
56	23 Apr	1650Z	08°20'N	52°36'W	28.2	----	ENE	20
57	23 Apr	1836Z	08°40'N	53°02'W	28.2	32.53	ENE	20
58	23 Apr	2100Z	09°00'N	53°34'W	28.2	----	ENE	20
59	23 Apr	2220Z	09°20'N	54°06'W	28.2	33.38	ENE	20
60	24 Apr	0000Z	09°40'N	54°32'W	27.9	----	NE	8
61	24 Apr	0158Z	10°00'N	55°04'W	28.0	----	NE	6

S.A. CONSTANTIA

19-24 APR 1983

XBT Section 40, 22-27 May 83
S.A. Constantia, crossing equator at 20°51'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	22 May	0736Z	10°00'N	30°12'W	27.5	35.84	NE	4
2	22 May	0909Z	09°40'N	29°57'W	27.4	---	NE	8
3	22 May	1106Z	09°20'N	29°36'W	27.4	36.15	NE	6
4	22 May	1249Z	09°00'N	29°19'W	27.5	---	ENE	6
5	22 May	1441Z	08°40'N	28°59'W	27.5	36.21	ENE	6
6	22 May	1640Z	08°20'N	28°38'W	27.4	---	ENE	6
7	22 May	1820Z	08°00'N	28°22'W	27.3	---	ENE	4
8	22 May	1949Z	07°40'N	28°01'W	27.2	34.92	ENE	4
9	22 May	2130Z	07°20'N	27°44'W	27.8	---	ENE	4
10	22 May	(2250Z)	07°00'N	27°22'W	27.7	35.00	ENE	4
11	23 May	0114Z	06°40'N	27°01'W	28.2	---	ENE	4
12	23 May	(0300Z)	06°20'N	26°39'W	28.2	34.91	ENE	4
13	23 May	0455Z	06°00'N	26°33'W	28.0	---	ENE	4
14	23 May	0720Z	05°40'N	25°49'W	27.8	35.29	ENE	4
15	23 May	(0942Z)	05°20'N	25°29'W	28.2	---	SSE	3
16	23 May	1205Z	05°00'N	25°05'W	28.2	33.50	SSE	3
17	23 May	1500Z	04°40'N	24°47'W	28.2	---	SSE	3
18	23 May	1655Z	04°20'N	24°26'W	28.2	35.49	SSE	3
19	23 May	1834Z	04°00'N	24°10'W	27.7	---	SSE	3
20	23 May	1950Z	03°40'N	23°55'W	28.0	35.67	SSE	12
21	23 May	2123Z	03°20'N	23°36'W	28.0	---	SE	12
22	23 May	2338Z	03°00'N	23°21'W	27.8	35.40	SE	12
23	24 May	0153Z	02°40'N	23°01'W	27.4	---	SE	12
24	24 May	0350Z	02°20'N	22°41'W	27.5	---	SE	12
25	24 May	0553Z	02°00'N	22°38'W	27.7	---	SE	12
26	24 May	0749Z	01°40'N	22°24'W	26.3	36.15	SE	12
27	24 May	1000Z	01°20'N	22°08'W	25.9	---	SE	12
28	24 May	1210Z	01°00'N	21°48'W	25.7	36.33	SE	12
29	24 May	1420Z	00°40'N	21°29'W	25.6	---	SE	12
30	24 May	1650Z	00°20'N	21°08'W	25.4	36.14	SE	12
31	24 May	1805Z	00°00'	20°51'W	24.8	---	SE	12

XBT Section 40, 22-27 May 83
(Continued)

190

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	24 May	1939Z	00°20'S	20°33'W	25.0	36.27	SE	12
33	24 May	2135Z	00°40'S	20°15'W	24.8	----	SE	12
34	24 May	2325Z	01°00'S	19°57'W	25.4	36.36	SE	12
35	25 May	0150Z	01°20'S	19°34'W	25.2	----	SE	12
36	25 May	0330Z	01°40'S	19°17'W	25.2	36.16	SE	12
37	25 May	0511Z	02°00'S	19°02'W	25.2	----	SE	12
38	25 May	0706Z	02°20'S	18°44'W	25.2	36.33	SE	12
39	25 May	0900Z	02°40'S	18°26'W	25.5	----	SE	12
40	25 May	1115Z	03°00'S	18°11'W	26.1	35.99	SE	12
41	25 May	1309Z	03°20'S	17°54'W	26.5	----	SE	12
42	25 May	1533Z	03°40'S	17°33'W	26.7	35.48	SE	14
43	25 May	1710Z	04°00'S	17°20'W	26.6	----	SE	14
44	25 May	1840Z	04°20'S	17°00'W	26.7	35.76	SE	14
45	25 May	2110Z	04°40'S	16°46'W	26.7	----	SE	12
46	25 May	2210Z	05°00'S	16°30'W	27.0	36.01	SE	12
47	26 May	0058Z	05°20'S	16°07'W	26.8	----	SE	10
48	26 May	0234Z	05°40'S	15°53'W	26.9	35.97	SE	10
49	26 May	0435Z	06°00'S	15°36'W	26.8	----	SE	10
50	26 May	0630Z	06°20'S	15°17'W	26.7	36.21	SE	14
51	26 May	0831Z	06°40'S	14°58'W	26.7	----	SE	14
52	26 May	(1035Z)	07°00'S	14°42'W	----	36.15	SE	14
53	26 May	1241Z	07°20'S	14°19'W	26.7	----	SE	14
54	26 May	1450Z	07°40'S	13°57'W	26.7	35.96	SE	14
55	26 May	1633Z	08°00'S	13°38'W	26.6	----	SE	14
56	26 May	1805Z	08°20'S	13°16'W	26.6	36.09	SE	12
57	26 May	1940Z	08°40'S	12°53'W	26.5	----	SE	12
58	26 May	2120Z	09°00'S	12°31'W	26.6	36.37	SE	12
59	26 May	2340Z	09°20'S	12°07'W	27.9	----	SE	14
60	27 May	0135Z	09°40'S	11°43'W	26.1	36.19	SE	14
61	27 May	0330Z	10°00'S	11°19'W	26.1	----	SE	14

S.A. CONSTANTIA

S.A. CONSTANTIA

22 - 27 MAY 1983

LATITUDE

XBT Section 41, 19-23 Jun 83
RMS Centaur, crossing equator at 15°46'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	19 Jun	1730Z	10°00'S	12°18'W	25.6	----	SE	10
2	19 Jun	1910Z	09°40'S	12°38'W	25.6	36.34	SE	10
3	19 Jun	2116Z	09°20'S	13°03'W	25.7	----	SE	10
4	19 Jun	2303Z	09°00'S	13°22'W	25.8	36.56	SE	10
5	20 Jun	0103Z	08°40'S	13°46'W	25.9	----	SE	10
6	20 Jun	0246Z	08°20'S	14°09'W	25.9	36.31	SE	10
7	20 Jun	1806Z	08°00'S	14°23'W	26.0	----	ESE	10
8	20 Jun	1939Z	07°40'S	14°24'W	26.0	36.47	ESE	16
9	20 Jun	2045Z	07°20'S	14°28'W	26.0	----	ESE	18
10	20 Jun	2158Z	07°00'S	14°35'W	26.2	36.29	ESE	16
11	20 Jun	2310Z	06°40'S	14°36'W	26.1	----	ESE	16
12	20 Jun	0026Z	06°20'S	14°40'W	26.1	35.99	SE	16
13	21 Jun	0141Z	06°00'S	14°45'W	26.2	----	SE	16
14	21 Jun	0255Z	05°40'S	14°50'W	26.2	35.91	SE	14
15	21 Jun	0412Z	05°20'S	14°54'W	26.0	----	SE	14
16	21 Jun	0522Z	05°00'S	14°57'W	26.0	36.19	SE	14
17	21 Jun	0637Z	04°40'S	15°01'W	25.9	----	SE	14
18	21 Jun	0751Z	04°20'S	15°05'W	25.4	35.83	SE	14
19	21 Jun	0907Z	04°00'S	15°10'W	24.3	----	SE	18
20	21 Jun	(1020Z)	03°40'S	(15°12'W)	----	----	SE	18
21	21 Jun	(1133Z)	03°20'S	(15°15'W)	----	----	SE	18
22	21 Jun	1248Z	03°00'S	15°19'W	24.9	36.25	SE	18
23	21 Jun	1402Z	02°40'S	15°21'W	24.8	----	SE	18
24	21 Jun	1514Z	02°20'S	15°22'W	24.6	36.17	SE	16
25	21 Jun	1628Z	02°00'S	15°25'W	24.4	----	SE	16
26	21 Jun	1758Z	01°40'S	15°27'W	24.5	35.92	SE	16
27	21 Jun	1900Z	01°20'S	15°30'W	24.7	----	SE	16
28	21 Jun	2020Z	01°00'S	15°34'W	23.7	36.02	SE	18
29	21 Jun	2136Z	00°40'S	15°38'W	23.4	----	SE	10
30	21 Jun	2251Z	00°20'S	15°42'W	24.0	36.09	SE	10
31	22 Jun	0005Z	00°00'	15°46'W	24.3	----	SE	10

XBT Section 41, 19-23 Jun 83
 (Continued)

195

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	22 Jun	0121Z	00°20'N	15°49'W	25.0	35.76	SE	10
33	22 Jun	0234Z	00°40'N	15°56'W	26.0	---	SE	10
34	22 Jun	0348Z	01°00'N	16°00'W	26.9	35.46	SE	10
35	22 Jun	0500Z	01°20'N	16°04'W	27.5	---	SE	10
36	22 Jun	0610Z	01°40'N	16°07'W	27.8	35.37	SE	10
37	22 Jun	0724Z	02°00'N	16°12'W	26.2	---	SE	10
38	22 Jun	(0940Z)	02°20'N	(16°15'W)	---	---	SE	10
39	22 Jun	(1055Z)	02°40'N	(16°18'W)	---	---	SE	10
40	22 Jun	(1210Z)	03°00'N	(16°22'W)	---	---	SE	10
41	22 Jun	(1325Z)	03°20'N	(16°26'W)	---	---	SE	10
42	22 Jun	(1440Z)	03°40'N	(16°30'W)	---	---	SE	10
43	22 Jun	(1555Z)	04°00'N	(16°34'W)	---	---	SE	10
44	22 Jun	1611Z	04°20'N	16°38'W	27.3	35.52	SE	14
45	22 Jun	1726Z	04°40'N	16°41'W	27.1	---	SE	14
46	22 Jun	1903Z	05°00'N	16°41'W	27.1	35.28	SE	10
47	22 Jun	2014Z	05°20'N	16°40'W	27.6	---	SE	10
48	22 Jun	2133Z	05°40'N	16°45'W	27.8	34.95	SE	8
49	22 Jun	2250Z	06°00'N	16°50'W	27.7	---	SE	8
50	23 Jun	0012Z	06°20'N	16°55'W	27.6	34.49	SE	8
51	23 Jun	0130Z	06°40'N	16°56'W	27.6	---	SE	8
52	23 Jun	0249Z	07°00'N	17°00'W	27.8	34.12	SE	8
53	23 Jun	0410Z	07°20'N	17°04'W	28.0	---	NNE	8
54	23 Jun	0540Z	07°40'N	17°07'W	27.9	35.39	NNE	8
55	23 Jun	0655Z	08°00'N	17°12'W	27.7	---	NNE	8
56	23 Jun	0818Z	08°20'N	17°17'W	27.9	35.02	NNE	8
57	23 Jun	0942Z	08°40'N	17°21'W	27.8	---	NNE	8
58	23 Jun	1056Z	09°00'N	17°27'W	27.9	34.86	NNE	8
59	23 Jun	1219Z	09°20'N	17°33'W	28.0	---	NNE	8
60	23 Jun	1336Z	09°40'N	17°39'W	27.9	34.94	SW	8
61	23 Jun	1446Z	10°00'N	17°43'W	28.2	---	SW	8

19 - 23 JUN 1983

R.M.S. CENTAUR

R.M.S. CENTAUR

19 - 23 JUN 1983

XBT Section 42, 15-20 Jul 83
RMS Centaur, crossing equator at 15°55'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	15 Jul	0646Z	10°00'N	17°35'W	27.9	----	SW	16
2	15 Jul	0756Z	09°40'N	17°34'W	27.7	34.62	SW	16
3	15 Jul	0913Z	09°20'N	17°31'W	27.7	----	NNE	16
4	15 Jul	1131Z	09°00'N	17°26'W	27.7	34.72	NNE	14
5	15 Jul	1151Z	08°40'N	17°19'W	27.6	----	SE	14
6	15 Jul	1311Z	08°20'N	17°18'W	27.1	35.12	SE	14
7	15 Jul	1416Z	08°00'N	17°15'W	27.1	----	NNE	14
8	15 Jul	1534Z	07°40'N	17°12'W	27.3	34.85	NNE	10
9	15 Jul	1652Z	07°20'N	17°07'W	27.4	----	NNE	10
10	15 Jul	1806Z	07°00'N	17°04'W	27.2	35.32	NNE	10
11	15 Jul	1919Z	06°40'N	17°00'W	27.2	----	E	10
12	15 Jul	2035Z	06°20'N	16°57'W	27.2	34.81	E	12
13	15 Jul	2150Z	06°00'N	16°53'W	27.2	----	E	12
14	15 Jul	2305Z	05°40'N	16°49'W	27.3	35.43	E	12
15	16 Jul	0021Z	05°20'N	16°45'W	27.2	----	E	12
16	16 Jul	0134Z	05°00'N	16°43'W	27.0	35.53	E	12
17	16 Jul	0244Z	04°40'N	16°39'W	27.0	----	SW	14
18	16 Jul	0401Z	04°20'N	16°36'W	27.0	35.67	SW	14
19	16 Jul	0520Z	04°00'N	16°32'W	26.6	----	SW	14
20	16 Jul	0639Z	03°40'N	16°29'W	25.9	35.69	SW	14
21	16 Jul	(0800Z)	03°20'N	16°25'W	26.1	----	SE	18
22	16 Jul	0917Z	03°00'N	16°22'W	25.0	35.61	SE	18
23	16 Jul	1033Z	02°40'N	16°19'W	24.9	----	SE	18
24	16 Jul	1149Z	02°20'N	16°15'W	25.2	35.70	SE	18
25	16 Jul	1323Z	02°00'N	16°14'W	25.2	----	SE	18
26	16 Jul	1446Z	01°40'N	16°10'W	25.4	35.50	SE	18
27	16 Jul	1610Z	01°20'N	16°09'W	25.7	----	SSE	10
28	16 Jul	1733Z	01°00'N	16°05'W	24.9	35.51	SSE	10
29	16 Jul	1848Z	00°40'N	16°03'W	24.3	----	SE	10
30	16 Jul	2005Z	00°20'N	16°00'W	23.7	35.57	SE	10
31	16 Jul	2129Z	00°00'	15°55'W	23.5	----	SE	10

XBT Section 42, 15-20 Jul 83
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	16 Jul	2256Z	00°20'S	15°49'W	23.2	35.99	SE	10
33	17 Jul	0012Z	00°40'S	15°48'W	22.7	---	SE	10
34	17 Jul	0140Z	01°00'S	15°41'W	22.4	36.01	SE	10
35	17 Jul	0302Z	01°20'S	15°38'W	22.5	---	ESE	8
36	17 Jul	0425Z	01°40'S	15°34'W	22.4	35.88	ESE	8
37	17 Jul	0548Z	02°00'S	15°29'W	22.6	---	ESE	8
38	17 Jul	0708Z	02°20'S	15°26'W	22.7	35.90	SE	14
39	17 Jul	(0830Z)	02°40'S	15°23'W	---	---	SE	14
40	17 Jul	0950Z	03°00'S	15°18'W	23.2	35.96	SE	14
41	17 Jul	1112Z	03°20'S	15°14'W	23.3	---	SE	14
42	17 Jul	1227Z	03°40'S	15°13'W	23.5	36.14	SE	14
43	17 Jul	1351Z	04°00'S	15°09'W	24.0	---	SE	14
44	17 Jul	1521Z	04°20'S	15°04'W	23.9	35.99	SE	8
45	17 Jul	1637Z	04°40'S	15°01'W	24.0	---	ESE	8
46	17 Jul	1830Z	05°00'S	15°00'W	24.6	36.01	ESE	14
47	17 Jul	1930Z	05°20'S	14°57'W	24.6	---	ESE	14
48	17 Jul	2046Z	05°40'S	14°53'W	24.7	35.90	ESE	14
49	17 Jul	2209Z	06°00'S	14°50, 1' W	24.7	---	ESE	14
50	17 Jul	2331Z	06°20'S	14°45'W	25.1	36.67	ESE	14
51	18 Jul	0057Z	06°40'S	14°42, 83' W	25.2	---	ESE	14
52	18 Jul	0221Z	07°00'S	14°37, 1' W	25.2	36.32	SE	14
53	18 Jul	0346Z	07°20'S	14°31, 82' W	25.0	---	SE	18
54	18 Jul	----	07°40'S	(14°20'W)	----	36.32	SE	18
55	18 Jul	----	08°00'S	(14°10'W)	----	---	SE	18
56	19 Jul	1328Z	08°20'S	13°57'W	24.8	36.46	SE	18
57	19 Jul	1526Z	08°40'S	13°37'W	24.8	---	SE	18
58	19 Jul	1729Z	09°00'S	13°16'W	24.9	36.43	E	18
59	19 Jul	1928Z	09°20'S	12°55'W	25.0	---	E	18
60	19 Jul	2334Z	09°40'S	12°34'W	24.5	---	E	16
61	20 Jul	0153Z	10°00'S	12°11'W	24.3	---	E	16

R.M.S. CENTAUR

15 - 20 JUL 1983

R.M.S. CENTAUR

15 - 20 JUL 1983

XBT Section 43, 24-29 Jun 83
S.A. Constantia, crossing equator at 23°14'W

203

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	24 Jun	0523Z	10°00'S	11°30'W	25.2	36.78	ESE	18
2	24 Jun	0735Z	09°40'S	11°55'W	25.5	---	ESE	18
3	24 Jun	0933Z	09°20'S	12°16'W	---	36.00	ESE	18
4	24 Jun	1130Z	09°00'S	12°37'W	25.7	---	ESE	18
5	24 Jun	1354Z	08°40'S	13°04'W	25.9	36.53	ESE	18
6	24 Jun	1603Z	08°20'S	13°29'W	25.8	---	ESE	18
7	24 Jun	1755Z	08°00'S	13°50'W	---	36.75	ESE	18
8	24 Jun	2000Z	07°40'S	14°14'W	---	---	ESE	18
9	24 Jun	2202Z	07°20'S	14°37'W	25.9	36.26	ESE	18
10	24 Jun	2359Z	07°00'S	14°59'W	26.1	---	ESE	18
11	25 Jun	0206Z	06°40'S	15°22'W	26.0	36.19	ESE	18
12	25 Jun	0427Z	06°20'S	15°50'W	26.0	---	ESE	18
13	25 Jun	0612Z	06°00'S	16°09'W	26.1	---	ESE	16
14	25 Jun	0812Z	05°40'S	16°31'W	26.0	---	ESE	16
15	25 Jun	1017Z	05°20'S	16°56'W	25.8	35.99	ESE	16
16	25 Jun	1217Z	05°00'S	17°18'W	25.5	---	ESE	16
17	25 Jun	1430Z	04°40'S	17°48'W	24.9	36.29	ESE	16
18	25 Jun	1625Z	04°20'S	18°10'W	25.1	---	ESE	16
19	25 Jun	1821Z	04°00'S	18°31'W	25.2	36.15	ESE	16
20	25 Jun	2012Z	03°40'S	18°54'W	25.1	---	ESE	16
21	25 Jun	2233Z	03°20'S	19°16'W	25.5	36.94	ESE	16
22	26 Jun	0017Z	03°00'S	19°37'W	25.0	---	ESE	16
23	26 Jun	0239Z	02°40'S	20°00'W	25.0	36.58	ESE	16
24	26 Jun	0450Z	02°20'S	20°20'W	24.7	---	ESE	16
25	26 Jun	0707Z	02°00'S	20°50'W	24.7	36.41	ESE	16
26	26 Jun	0902Z	01°40'S	21°10'W	24.9	---	ESE	16
27	26 Jun	1133Z	01°20'S	21°39'W	24.2	36.47	ESE	16
28	26 Jun	1350Z	01°00'S	22°04'W	25.9	---	ESE	16
29	26 Jun	1556Z	00°40'S	22°28'W	25.7	36.41	ESE	16
30	26 Jun	1756Z	00°20'S	22°53'W	25.8	---	ESE	16
31	26 Jun	1752Z	00°00'	23°14'W	25.6	36.47	ESE	16

XBT Section 43, 24-29 Jun 83
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	26 Jun	1951Z	00°20'N	23°59'W	25.7	---	ESE	16
33	26 Jun	2159Z	00°40'N	24°01'W	25.8	36.34	ESE	16
34	26 Jun	2352Z	01°00'N	24°24'W	25.8	---	ESE	16
35	27 Jun	0157Z	01°20'N	24°43'W	26.2	36.11	ESE	16
36	27 Jun	0347Z	01°40'N	25°04'W	26.9	---	ESE	16
37	27 Jun	0545Z	02°00'N	25°26'W	27.1	35.73	ESE	16
38	27 Jun	0745Z	02°20'N	25°46'W	---	---	ESE	16
39	27 Jun	0940Z	02°40'N	26°08'W	27.6	35.78	ESE	16
40	27 Jun	1135Z	03°00'N	26°37'W	28.0	---	ESE	16
41	27 Jun	1405Z	03°20'N	26°51'W	27.8	35.93	ESE	16
42	27 Jun	1703Z	03°40'N	27°12'W	28.0	---	ESE	16
43	27 Jun	1820Z	04°00'N	27°31'W	28.0	35.84	ESE	16
44	27 Jun	1945Z	04°20'N	27°50'W	27.9	---	ESE	16
45	27 Jun	2038Z	04°40'N	28°12'W	27.9	35.88	ESE	16
46	27 Jun	2304Z	05°00'N	28°33'W	27.9	---	ESE	16
47	28 Jun	0100Z	05°20'N	28°54'W	28.1	35.91	ESE	16
48	28 Jun	0259Z	05°40'N	29°17'W	28.0	---	ESE	16
49	28 Jun	0451Z	06°00'N	29°38'W	28.1	35.57	ESE	16
50	28 Jun	0649Z	06°20'N	30°00'W	28.2	---	ESE	16
51	28 Jun	0845Z	06°40'N	30°20'W	27.9	35.13	ESE	16
52	28 Jun	1100Z	07°00'N	30°40'W	28.1	---	ESE	16
53	28 Jun	1530Z	07°20'N	30°57'W	27.8	35.28	ESE	16
54	28 Jun	1731Z	07°40'N	31°18'W	27.9	---	ESE	16
55	28 Jun	1934Z	08°00'N	31°42'W	27.9	---	ESE	16
56	28 Jun	2145Z	08°20'N	32°00'W	27.8	34.86	L.AIR	---
57	28 Jun	2356Z	08°40'N	32°29'W	27.7	---	L.AIR	---
58	29 Jun	0200Z	09°00'N	32°52'W	27.9	35.50	L.AIR	---
59	29 Jun	0421Z	09°20'N	33°18'W	27.7	---	L.AIR	---
60	29 Jun	0630Z	09°40'N	33°44'W	27.9	35.89	L.AIR	---
61	29 Jun	0906Z	10°00'N	34°07'W	27.6	35.76	L.AIR NE	6

S. A. CONSTANTIA

24 - 29 JUN 1983

XBT Section 44, 12-16 Aug 83
S.A. Constantia, crossing equator at 21°17'W

207

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	12 Aug	1621Z	10°00'N	32°51'W	27.4	35.42		
2	12 Aug	2124Z	09°40'N	32°22'W	27.6	---		
3	12 Aug	2253Z	09°20'N	32°00'W	27.5	35.38		
4	13 Aug	0019Z	09°00'N	31°39'W	27.6	---	SE	14
5	13 Aug	0200Z	08°40'N	31°14'W	27.7	35.34	SE	14
6	13 Aug	0336Z	08°20'N	30°50'W	27.9	---	SE	14
7	13 Aug	0517Z	08°00'N	30°26'W	28.0	33.48	SE	14
8	13 Aug	0700Z	07°40'N	30°00'W	27.7	---	SE	14
9	13 Aug	0842Z	07°20'N	29°36'W	27.9	35.52	SE	14
10	13 Aug	1009Z	07°00'N	29°15'W	28.0	---	SE	14
11	13 Aug	1155Z	06°40'N	28°49'W	28.0	35.48	SE	14
12	13 Aug	1340Z	06°20'N	28°24'W	28.0	---	SE	14
13	13 Aug	1516Z	06°00'N	28°00'W	28.2	35.71	SE	14
14	13 Aug	1657Z	05°40'N	27°36'W	28.3	---	SE	14
15	13 Aug	1837Z	05°20'N	27°13'W	28.1	35.15	SE	14
16	13 Aug	2015Z	05°00'N	26°50'W	27.9	---	SE	14
17	13 Aug	2143Z	04°40'N	26°32'W	27.8	35.93	SE	14
18	13 Aug	2320Z	04°20'N	26°10'W	27.7	---	SE	14
19	14 Aug	0100Z	04°00'N	25°48'W	27.5	35.91	SE	14
20	14 Aug	0244Z	03°40'N	25°25'W	27.0	---	SE	14
21	14 Aug	(0430Z)	03°20'N	25°00'W	25.9	35.96	SE	14
22	14 Aug	0615Z	03°00'N	24°36'W	26.0	---	SE	14
23	14 Aug	0800Z	02°40'N	24°13'W	26.2	35.86	SE	14
24	14 Aug	0937Z	02°20'N	23°51'W	26.2	---	SE	17
25	14 Aug	1113Z	02°00'N	23°30'W	---	36.23	SE	17
26	14 Aug	1241Z	01°40'N	23°09'W	26.8	---	SE	17
27	14 Aug	1415Z	01°20'N	22°49'W	26.7	36.25	SE	17
28	14 Aug	1546Z	01°00'N	22°26'W	25.5	---	SE	17
29	14 Aug	1718Z	00°40'N	22°04'W	25.0	36.13	SE	17
30	14 Aug	1902Z	00°20'N	21°40'W	24.6	---	SE	17
31	14 Aug	2039Z	00°00'	21°17'W	24.3	36.59	SE	17

XBT Section 44, 12-16 Aug 83
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	14 Aug	2213Z	00°20'S	20°55'W	24.4	----	SE	17
33	15 Aug	0000Z	00°40'S	20°30'W	24.2	36.22	SE	17
34	15 Aug	0138Z	01°00'S	20°08'W	24.2	----	SE	17
35	15 Aug	0316Z	01°20'S	19°46'W	24.1	36.27	SSE	17
36	15 Aug	0453Z	01°40'S	19°23'W	24.1	----	SSE	10
37	15 Aug	0622Z	02°00'S	19°03'W	24.0	36.21	SSE	10
38	15 Aug	0756Z	02°20'S	18°41'W	23.9	----	SSE	15
39	15 Aug	0931Z	02°40'S	18°19'W	23.9	35.70	SSE	16
40	15 Aug	1057Z	03°00'S	17°58'W	24.0	----	SSE	16
41	15 Aug	1240Z	03°20'S	17°35'W	24.2	36.10	SSE	16
42	15 Aug	(1420Z)	03°40'S	17°13'W	24.5	----	SSE	16
43	15 Aug	1559Z	04°00'S	16°49'W	24.7	36.24	SSE	16
44	15 Aug	1742Z	04°20'S	16°26'W	25.0	----	SSE	16
45	15 Aug	1917Z	04°40'S	16°05'W	24.3	36.42	VAR	----
46	15 Aug	2054Z	05°00'S	15°44'W	26.3	----	LA	208
47	15 Aug	2237Z	05°20'S	15°20'W	24.0	35.99	LA	----
48	16 Aug	0010Z	05°40'S	14°59'W	25.0	----	LA	----
49	16 Aug	0145Z	06°00'S	14°51'W	24.4	36.15	LA	----
50	16 Aug	0322Z	06°20'S	14°15'W	24.3	----	LA	4
51	16 Aug	0458Z	06°40'S	13°53'W	23.6	36.08	LA	4
52	16 Aug	0630Z	07°00'S	13°32'W	24.2	----	LA	4
53	16 Aug	0815Z	07°20'S	13°09'W	23.9	36.23	SE	10
54	16 Aug	0938Z	07°40'S	12°47'W	23.7	----	NE	10
55	16 Aug	1115Z	08°00'S	12°25'W	23.2	36.34	NE	10
56	16 Aug	1300Z	08°20'S	12°02'W	23.7	----	NE	12
57	16 Aug	1446Z	08°40'S	11°37'W	24.0	36.39	NE	14
58	16 Aug	1622Z	09°00'S	11°16'W	24.2	----	NE	16
59	16 Aug	1805Z	09°20'S	10°54'W	23.9	36.53	NE	16
60	16 Aug	1940Z	09°40'S	10°32'W	23.9	----	NE	16
61	16 Aug	2133Z	10°00'S	10°07'W	23.8	36.75	NE	16

S. A. CONSTANTIA

12 -16 AUG 1983

XBT Section 45, 8-12 Aug 83
RMS Centaur, crossing equator at 15°47'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	8 Aug	1610Z	10°00'S	12°20'W	24.5	36.41	SE	9
2	8 Aug	1805Z	09°40'S	12°43'W	24.4	---	SE	9
3	8 Aug	1948Z	09°20'S	13°02'W	24.6	36.30	SE	9
4	8 Aug	2159Z	09°00'S	13°24'W	24.6	---	SE	9
5	9 Aug	0000Z	08°40'S	13°46'W	24.1	35.90	SE	9
6	9 Aug	0229Z	08°20'S	14°06'W	24.2	---	SE	9
7	9 Aug	0435Z	08°00'S	14°27'W	23.9	35.96	SE	5
8	9 Aug	2047Z	07°40'S	14°28'W	23.8	---	SE	3
9	9 Aug	2146Z	07°20'S	14°30'W	23.8	35.95	SE	11
10	9 Aug	2302Z	07°00'S	14°33'W	24.1	---	SE	11
11	10 Aug	0010Z	06°40'S	14°40'W	24.3	35.97	SE	10
12	10 Aug	0129Z	06°20'S	14°43'W	24.6	---	---	---
13	10 Aug	0250Z	06°00'S	14°46'W	24.2	36.00	---	---
14	10 Aug	0406Z	05°40'S	14°49'W	24.3	---	---	---
15	10 Aug	0526Z	05°20'S	14°53'W	24.4	36.13	SE	10
16	10 Aug	0642Z	05°00'S	14°58'W	23.9	---	ESE	10
17	10 Aug	0755Z	04°40'S	15°02'W	23.8	36.10	ESE	8
18	10 Aug	0904Z	04°20'S	15°06'W	23.7	---	SE	11
19	10 Aug	1014Z	04°00'S	15°11'W	23.7	35.96	---	---
20	10 Aug	1124Z	03°40'S	15°14'W	23.8	---	SE	13
21	10 Aug	1232Z	03°20'S	15°17'W	23.9	35.99	SE	13
22	10 Aug	1340Z	03°00'S	15°23'W	24.0	---	SE	13
23	10 Aug	1449Z	02°40'S	15°25'W	24.0	36.05	---	---
24	10 Aug	1555Z	02°20'S	15°27'W	24.0	---	---	---
25	10 Aug	1703Z	02°00'S	15°30'W	24.0	35.93	---	---
26	10 Aug	1809Z	01°40'S	15°33'W	23.8	---	---	---
27	10 Aug	1919Z	01°20'S	15°35'W	23.6	35.82	ESE	12
28	10 Aug	2031Z	01°00'S	15°39'W	23.4	---	---	---
29	10 Aug	2143Z	00°40'S	15°42'W	23.5	35.57	---	---
30	10 Aug	2255Z	00°20'S	15°43'W	23.7	---	---	---
31	10 Aug	2357Z	00°00'	15°47'W	24.0	35.96	---	---

XBT Section 45, 8-12 Aug 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	11 Aug	0106Z	00°20'N	15°51'W	24.6	---	---	---
33	11 Aug	0215Z	00°40'N	15°54'W	25.3	35.85	---	---
34	11 Aug	0327Z	01°00'N	15°58'W	25.7	---	---	---
35	11 Aug	0438Z	01°20'N	16°01'W	25.6	35.64	---	---
36	11 Aug	0546Z	01°40'N	16°04'W	26.1	---	---	---
37	11 Aug	0658Z	02°00'N	16°09'W	26.4	36.08	E	9
38	11 Aug	0809Z	02°20'N	16°13'W	26.6	---	---	---
39	11 Aug	0921Z	02°40'N	16°17'W	26.5	35.64	---	---
40	11 Aug	1031Z	03°00'N	16°21'W	26.6	---	E	5
41	11 Aug	1142Z	03°20'N	16°25'W	26.7	35.50	---	---
42	11 Aug	1300Z	03°40'N	16°30'W	26.5	---	E	5
43	11 Aug	1424Z	04°00'N	16°33'W	26.7	35.87	E	5
44	11 Aug	1560Z	04°20'N	16°37'W	27.0	---	SE	5
45	11 Aug	1626Z	04°40'N	16°39'W	27.0	35.73	---	---
46	11 Aug	1729Z	05°00'N	16°41'W	27.3	---	---	---
47	11 Aug	1842Z	05°20'N	16°43'W	27.5	35.29	---	---
48	11 Aug	1955Z	05°40'N	16°46'W	27.5	---	SW	4
49	11 Aug	2106Z	06°00'N	16°49'W	27.4	35.03	SW	6
50	11 Aug	2218Z	06°20'N	16°53'W	27.4	---	SW	6
51	11 Aug	2330Z	06°40'N	16°56'W	27.4	35.31	SW	8
52	12 Aug	0113Z	07°00'N	16°57'W	27.1	---	---	---
53	12 Aug	0228Z	07°20'N	17°00'W	27.0	34.85	---	---
54	12 Aug	0342Z	07°40'N	17°04'W	26.9	---	WSW	9
55	12 Aug	0456Z	08°00'N	17°09'W	27.0	34.76	---	---
56	12 Aug	0635Z	08°20'N	17°15'W	26.8	---	W	6
57	12 Aug	0749Z	08°40'N	17°19'W	26.9	34.75	NW	6
58	12 Aug	0901Z	09°00'N	17°23'W	27.2	---	NW	11
59	12 Aug	1014Z	09°20'N	17°27'W	27.7	34.75	NW	11
60	12 Aug	1132Z	09°40'N	17°35'W	27.9	---	NW	11
61	12 Aug	1253Z	10°00'N	17°36'W	28.2	34.66	NW	11

R.M.S. CENTAUR

8 - 12 AUG 1983

R.M.S. CENTAUR

8 - 12 AUG 1983

XBT Section 46, 14-17 Sep 83
RMS Centaur, crossing equator at 15°56'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	14 Sep	0831Z	10°00'N	17°37'W	27.4	----	ESE	9
2	14 Sep	0952Z	09°40'N	17°36'W	27.3	34.60	ESE	9
3	14 Sep	1105Z	09°20'N	17°31'W	27.4	----	ESE	9
4	14 Sep	1216Z	09°00'N	17°27'W	27.4	34.16	SSE	11
5	14 Sep	1344Z	08°40'N	17°25'W	27.3	----	SSE	13
6	14 Sep	1507Z	08°20'N	17°20'W	27.3	34.39	SSE	13
7	14 Sep	1623Z	08°00'N	17°17'W	27.2	----	SSE	13
8	14 Sep	1745Z	07°40'N	17°11'W	27.4	35.04	S	13
9	14 Sep	1900Z	07°20'N	17°07'W	27.2	----	S	13
10	14 Sep	2016Z	07°00'N	17°03'W	27.2	34.65	SW	13
11	14 Sep	2133Z	06°40'N	17°00'W	27.2	----	SW	13
12	14 Sep	2249Z	06°20'N	16°57'W	27.3	34.86	SW	13
13	15 Sep	0006Z	06°00'N	16°53'W	27.3	----	SW	13
14	15 Sep	0122Z	05°40'N	16°50'W	27.4	34.52	SW	13
15	15 Sep	0234Z	05°20'N	16°43'W	27.3	----	SW	13
16	15 Sep	0357Z	05°00'N	16°40'W	27.2	34.78	SW	13
17	15 Sep	0510Z	04°40'N	16°37'W	27.2	----	SW	13
18	15 Sep	0617Z	04°20'N	16°35'W	27.1	35.10	SW	14
19	15 Sep	0730Z	04°00'N	16°32'W	27.2	----	SW	14
20	15 Sep	0849Z	03°40'N	16°32'W	----	34.99	SW	16
21	15 Sep	0950Z	03°20'N	(16°27'W)	----	----	SW	16
22	15 Sep	1108Z	03°00'N	16°22'W	----	35.79	S	13
23	15 Sep	1221Z	02°40'N	16°19'W	26.9	----	S	13
24	15 Sep	1335Z	02°20'N	16°16'W	25.7	35.89	S	13
25	15 Sep	1450Z	02°00'N	16°13'W	25.7	----	S	13
26	15 Sep	1600Z	01°40'N	16°11'W	25.8	35.97	S	13
27	15 Sep	1709Z	01°20'N	16°08'W	25.6	----	S	13
28	15 Sep	1826Z	01°00'N	16°04'W	25.3	35.72	S	13
29	15 Sep	1939Z	00°40'N	16°00'W	20.8	----	S	13
30	15 Sep	2053Z	00°20'N	15°57'W	24.7	35.89	S	13
31	15 Sep	2200Z	00°00'	15°56'W	24.4	----	S	13

XBT Section 46, 14-17 Sep 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	15 Sep	2315Z	00°20'S	15°52'W	23.9	36.32	S	13
33	16 Sep	0033Z	00°40'S	15°48'W	23.8	---	S	13
34	16 Sep	0156Z	01°00'S	15°42'W	23.9	36.12	S	13
35	16 Sep	0304Z	01°20'S	15°37'W	23.9	---	S	13
36	16 Sep	0416Z	01°40'S	15°33'W	23.7	36.10	S	13
37	16 Sep	0545Z	02°00'S	15°29'W	23.8	---	S	13
38	16 Sep	0647Z	02°20'S	15°26'W	23.7	36.11	S	13
39	16 Sep	0800Z	02°40'S	15°22'W	23.5	---	S	13
40	16 Sep	0914Z	03°00'S	15°19'W	23.6	35.99	S	13
41	16 Sep	1023Z	03°20'S	15°17'W	23.6	---	S	13
42	16 Sep	1147Z	03°40'S	15°13'W	23.7	36.30	S	13
43	16 Sep	1250Z	04°00'S	15°10'W	23.8	---	S	13
44	16 Sep	1404Z	04°20'S	15°05'W	23.9	36.24	SE	13
45	16 Sep	1520Z	04°40'S	15°03'W	24.0	---	SE	13
46	16 Sep	1650Z	05°00'S	14°58'W	24.1	35.93	SE	13
47	16 Sep	1756Z	05°20'S	14°54'W	23.9	---	SE	13
48	16 Sep	1908Z	05°40'S	14°50'W	23.7	35.99	SE	15
49	16 Sep	2024Z	06°00'S	14°46'W	23.9	---	SE	16
50	16 Sep	2159Z	06°20'S	14°43'W	23.7	35.87	SE	16
51	16 Sep	2322Z	06°40'S	14°39'W	23.6	---	SE	16
52	17 Sep	0046Z	07°00'S	14°36'W	23.5	36.06	SE	16
53	17 Sep	0223Z	07°20'S	14°31'W	23.6	---	SE	16
54	17 Sep	0346Z	07°40'S	14°30'W	23.5	36.07	SE	16
55	17 Sep	1518Z	08°00'S	14°19'W	23.7	---	SE	16
56	17 Sep	1703Z	08°20'S	13°59'W	24.0	36.12	SE	16
57	17 Sep	1857Z	08°40'S	13°37'W	24.0	---	SE	16

14 - 17 SEP 1983

R.M.S. CENTAUR

R.M.S. CENTAUR

14 - 17 SEP 1983

XBT Section 47, 15-19 Sep 83
S.A. Constantia, crossing equator at 23°38'W

221

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	15 Sep	0058Z	10°00'S	12°15'W	23.7	36.57	SE	16
2	15 Sep	0235Z	09°40'S	12°37'W	23.9	---	SE	16
3	15 Sep	0412Z	09°20'S	12°57'W	24.0	36.69	SE	16
4	15 Sep	0550Z	09°00'S	13°17'W	23.7	---	SE	16
5	15 Sep	0729Z	08°40'S	13°38'W	23.8	36.27	SE	16
6	15 Sep	0847Z	08°20'S	14°00'W	23.8	---	SE	16
7	15 Sep	(1030Z)	08°00'S	(14°22'W)	---	---	SE	16
8	15 Sep	1212Z	07°40'S	14°45'W	23.8	---	SE	16
9	15 Sep	1357Z	07°20'S	15°10'W	23.9	36.57	SE	16
10	15 Sep	(1550Z)	07°00'S	15°36'W	23.9	---	SE	16
11	15 Sep	1738Z	06°40'S	16°01'W	24.1	36.07	SE	16
12	15 Sep	(1920Z)	06°20'S	16°27'W	24.2	---	SE	16
13	15 Sep	2109Z	06°00'S	16°51'W	24.3	36.31	SE	16
14	15 Sep	2258Z	05°40'S	17°16'W	24.1	---	SE	16
15	16 Sep	(0050Z)	05°20'S	17°35'W	---	36.27	SE	16
16	16 Sep	0241Z	05°00'S	18°03'W	24.0	---	SE	16
17	16 Sep	(0420Z)	04°40'S	18°23'W	---	35.99	SE	16
18	16 Sep	0559Z	04°20'S	18°48'W	24.0	---	SE	16
19	16 Sep	0739Z	04°00'S	19°10'W	24.0	36.20	SE	16
20	16 Sep	0919Z	03°40'S	19°33'W	24.6	---	SE	16
21	16 Sep	1125Z	03°20'S	20°00'W	24.6	36.37	SE	16
22	16 Sep	1241Z	03°00'S	20°16'W	24.7	---	SE	16
23	16 Sep	1424Z	02°40'S	20°38'W	24.5	36.22	SE	16
24	16 Sep	1614Z	02°20'S	21°02'W	24.9	---	SE	16
25	16 Sep	1758Z	02°00'S	21°24'W	24.7	36.39	SE	16
26	16 Sep	(1940Z)	01°40'S	21°46'W	---	---	ESE	13
27	16 Sep	(2130Z)	01°20'S	22°05'W	---	36.61	ESE	13
28	16 Sep	2308Z	01°00'S	22°28'W	24.9	---	ESE	13
29	17 Sep	0056Z	00°40'S	22°52'W	25.0	36.24	ESE	13
30	17 Sep	0246Z	00°20'S	23°15'W	25.1	---	ESE	13
31	17 Sep	0432Z	00°00'	23°38'W	25.1	35.91	SE	13

XBT Section 47, 15-19 Sep 83
 (Continued)

222

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	17 Sep	0618Z	00°20'N	24°00'W	25.0	----	SE	13
33	17 Sep	0804Z	00°40'N	24°23'W	25.0	36.14	SE	13
34	17 Sep	0952Z	01°00'N	24°50'W	24.8	----	SE	13
35	17 Sep	1140Z	01°20'N	25°14'W	24.9	36.32	SE	13
36	17 Sep	1330Z	01°40'N	25°39'W	25.4	----	SE	13
37	17 Sep	1515Z	02°00'N	26°01'W	26.2	35.87	SE	13
38	17 Sep	1602Z	02°20'N	26°24'W	26.4	----	SE	13
39	17 Sep	1856Z	02°40'N	26°47'W	26.4	35.85	SE	13
40	17 Sep	2031Z	03°00'N	27°09'W	26.7	----	SE	13
41	17 Sep	2231Z	03°20'N	27°35'W	26.9	35.91	SE	13
42	18 Sep	0008Z	03°40'N	27°54'W	27.4	----	SE	13
43	18 Sep	0153Z	04°00'N	28°17'W	27.5	35.57	SE	10
44	18 Sep	0342Z	04°20'N	28°39'W	27.5	----	SE	10
45	18 Sep	0525Z	04°40'N	29°00'W	27.5	35.08	SE	10
46	18 Sep	0714Z	05°00'N	29°23'W	28.1	----	SE	10
47	18 Sep	0859Z	05°20'N	29°45'W	27.9	35.66	SE	10
48	18 Sep	1107Z	05°40'N	30°08'W	28.1	----	SE	10
49	18 Sep	1330Z	06°00'N	30°32'W	28.2	35.93	SE	10
50	18 Sep	1544Z	06°20'N	30°57'W	28.6	35.04	SE	10
51	18 Sep	1747Z	06°40'N	31°19'W	28.6	----	SE	10
52	18 Sep	(1940Z)	07°00'N	31°40'W	28.7	34.69	SE	10
53	18 Sep	(2140Z)	07°20'N	32°03'W	----	----	SE	10
54	18 Sep	2329Z	07°40'N	32°24'W	28.4	34.78	SE	10
55	19 Sep	0122Z	08°00'N	32°47'W	28.3	----	LA	----
56	19 Sep	0316Z	08°20'N	33°10'W	28.3	34.80	LA	----
57	19 Sep	0448Z	08°40'N	33°29'W	28.3	----	LA	----
58	19 Sep	0630Z	09°00'N	33°50'W	28.4	34.99	LA	----
59	19 Sep	0825Z	09°20'N	34°14'W	28.3	----	LA	----
60	19 Sep	1008Z	09°40'N	34°35'W	28.4	34.51	LA	----
61	19 Sep	1151Z	10°00'N	34°59'W	28.2	----	LA	----

15 - 19 SEP 1983

S.A. CONSTANTIA

S. A. CONSTANTIA

15 - 19 SEP 1983

XBT Section 48, 22-27 Oct 83
S.A. Constantia, crossing equator at 22°25'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	22 Oct	1934Z	10°00'N	34°50'W	27.7	35.07	SE	16
2	22 Oct	2128Z	09°40'N	34°27'W	27.7	---	SE	16
3	22 Oct	2330Z	09°20'N	34°00'W	27.9	36.31	SE	16
4	23 Oct	(0120Z)	09°00'N	(33°40'W)	---	---	SE	16
5	23 Oct	(0310Z)	08°40'N	33°15'W	27.9	35.66	SE	16
6	23 Oct	0502Z	08°20'N	32°50'W	27.9	---	SE	16
7	23 Oct	0646Z	08°00'N	32°26'W	28.2	35.95	SE	16
8	23 Oct	0838Z	07°40'N	32°01'W	27.9	---	SE	16
9	23 Oct	1029Z	07°20'N	31°35'W	28.0	36.25	SE	16
10	23 Oct	1313Z	07°00'N	30°52'W	28.0	---	SE	16
11	23 Oct	1508Z	06°40'N	30°23'W	28.0	---	SE	16
12	23 Oct	1650Z	06°20'N	29°56'W	28.0	35.53	SE	16
13	23 Oct	(1830Z)	06°00'N	29°30'W	27.8	---	SE	16
14	23 Oct	2017Z	05°40'N	29°06'W	27.8	35.53	SE	16
15	23 Oct	(2200Z)	05°20'N	28°45'W	27.6	---	SE	16
16	23 Oct	2329Z	05°00'N	28°27'W	27.7	36.10	SE	16
17	24 Oct	0142Z	04°40'N	28°06'W	27.7	---	SE	16
18	24 Oct	0300Z	04°20'N	27°40'W	27.8	36.14	SE	16
19	24 Oct	0450Z	04°00'N	27°13'W	27.8	---	SE	16
20	24 Oct	0645Z	03°40'N	26°50'W	27.7	35.91	SE	16
21	24 Oct	0847Z	03°20'N	26°34'W	27.5	---	SE	16
22	24 Oct	1050Z	03°00'N	26°04'W	---	35.90	SE	16
23	24 Oct	1245Z	02°40'N	25°35'W	27.8	---	SE	16
24	24 Oct	1448Z	02°20'N	25°11'W	26.7	36.12	SE	16
25	24 Oct	1656Z	02°00'N	24°45'W	26.9	---	SE	16
26	24 Oct	1903Z	01°40'N	24°18'W	26.8	36.13	SE	16
27	24 Oct	2035Z	01°20'N	24°02'W	26.6	---	SE	16
28	24 Oct	2235Z	01°00'N	23°38'W	25.7	---	SE	16
29	25 Oct	0036Z	00°40'N	23°12'W	25.2	---	SE	16
30	25 Oct	(0236Z)	00°20'N	(22°50'W)	---	---	SE	16
31	25 Oct	(0436Z)	00°00'	(22°25'W)	---	---	SE	16

XBT Section 48, 22-27 Oct 83
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	25 Oct	(0636Z)	00°20'S	(22°00'W)	----	----	SE	16
33	25 Oct	0836Z	00°40'S	21°33'W	24.8	36.41	SE	16
34	25 Oct	1032Z	01°00'S	21°08'W	24.7	----	SE	16
35	25 Oct	1126Z	01°20'S	20°44'W	25.1	35.80	SE	16
36	25 Oct	1358Z	01°40'S	20°23'W	25.0	----	SSE	16
37	25 Oct	1601Z	02°00'S	19°57'W	24.7	36.12	SSE	16
38	25 Oct	1750Z	02°20'S	19°33'W	24.7	----	SSE	16
39	25 Oct	1929Z	02°40'S	19°15'W	24.5	35.84	SSE	16
40	25 Oct	2192Z	03°00'S	18°52'W	24.5	----	SSE	16
41	25 Oct	2328Z	03°20'S	18°25'W	24.3	35.86	SSE	16
42	26 Oct	0118Z	03°40'S	18°01'W	24.2	----	SSE	16
43	26 Oct	0245Z	04°00'S	17°45'W	24.2	36.26	SSE	16
44	26 Oct	0444Z	04°20'S	17°19'W	24.1	----	VAR	----
45	26 Oct	0622Z	04°40'S	17°00'W	24.0	36.39	VAR	----
46	26 Oct	0813Z	05°00'S	16°37'W	24.0	----	VAR	----
47	26 Oct	1005Z	05°20'S	16°14'W	24.0	36.75	VAR	----
48	26 Oct	1148Z	05°40'S	15°51'W	24.2	----	VAR	----
49	26 Oct	1339Z	06°00'S	15°27'W	24.2	36.51	VAR	----
50	26 Oct	1531Z	06°20'S	15°03'W	24.1	----	SE	10
51	26 Oct	1727Z	06°40'S	14°38'W	23.9	36.21	SE	10
52	26 Oct	1902Z	07°00'S	14°19'W	23.9	----	NE	10
53	26 Oct	2036Z	07°20'S	13°58'W	23.8	36.28	NE	10
54	26 Oct	2225Z	07°40'S	13°30'W	23.8	----	NE	10
55	27 Oct	0052Z	08°00'S	13°17'W	23.6	36.14	NE	10
56	27 Oct	0155Z	08°20'S	12°45'W	23.5	----	NE	10
57	27 Oct	0226Z	08°40'S	12°28'W	23.4	36.32	NE	10
58	27 Oct	0525Z	09°00'S	12°07'W	23.3	----	NE	10
59	27 Oct	0713Z	09°20'S	11°46'W	23.1	----	NE	10
60	27 Oct	1123Z	09°40'S	11°23'W	23.2	----	NE	10

S.A. CONSTANTIA

22 - 27 OCT. 1983

S.A. CONSTANTIA

22 - 27 OCT. 1983

XBT Section 49, 17-21 Nov 83
S.A. Constantia, crossing equator at 25°27'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	17 Nov	1235Z	10°00'S	13°58'W	24.3	36.41	ESE	11
2	17 Nov	1413Z	09°40'S	14°22'W	24.3	----	ESE	11
3	17 Nov	1550Z	09°20'S	14°43'W	24.4	36.43	SE	11
4	17 Nov	1719Z	09°00'S	(15°06'W)	----	----	SE	11
5	17 Nov	1852Z	08°40'S	15°30'W	24.6	36.15	SE	11
6	17 Nov	2040Z	08°20'S	15°50'W	24.5	----	SE	11
7	17 Nov	2215Z	08°00'S	16°12'W	24.7	36.28	SE	11
8	17 Nov	2355Z	07°40'S	16°38'W	24.8	----	SE	11
9	18 Nov	0126Z	07°20'S	17°00'W	24.8	36.31	SE	11
10	18 Nov	0304Z	07°00'S	17°23'W	24.8	----	SE	11
11	18 Nov	0435Z	06°40'S	17°45'W	24.7	----	SE	11
12	18 Nov	0612Z	06°20'S	18°08'W	24.9	----	SE	11
13	18 Nov	0750Z	06°00'S	18°31'W	25.0	----	SE	11
14	18 Nov	0937Z	05°40'S	18°56'W	25.1	----	ESE	11
15	18 Nov	1108Z	05°20'S	19°18'W	25.1	----	ESE	11
16	18 Nov	1253Z	05°00'S	19°39'W	25.1	----	ESE	11
17	18 Nov	1431Z	04°40'S	20°01'W	25.2	36.42	ESE	11
18	18 Nov	1605Z	04°20'S	20°28'W	25.2	----	ESE	11
19	18 Nov	1734Z	04°00'S	20°49'W	25.2	36.40	ESE	11
20	18 Nov	1913Z	03°40'S	21°13'W	----	----	ESE	11
21	18 Nov	2043Z	03°20'S	21°35'W	25.1	----	ESE	11
22	18 Nov	2220Z	03°00'S	21°54'W	25.1	----	ESE	8
23	19 Nov	0000Z	02°40'S	22°22'W	25.2	36.39	E	11
24	19 Nov	0135Z	02°20'S	22°45'W	25.4	----	E	11
25	19 Nov	0303Z	02°00'S	23°06'W	25.8	36.32	ESE	11
26	19 Nov	0447Z	01°40'S	23°29'W	25.8	----	SE	11
27	19 Nov	0624Z	01°20'S	23°52'W	25.8	36.33	SE	11
28	19 Nov	0800Z	01°00'S	24°14'W	25.7	----	SE	11
29	19 Nov	0945Z	00°40'S	24°39'W	25.6	36.15	SSE	11
30	19 Nov	1105Z	00°20'S	25°12'W	25.9	----	SSE	11
31	19 Nov	(1245Z)	00°00'	(25°27'W)	----	----	SSE	11

XBT Section 49, 17-21 Nov 83
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	19 Nov	1426Z	00°20'N	25°42'W	26.1	----	SSE	11
33	19 Nov	1601Z	00°40'N	26°04'W	26.3	----	SSE	11
34	19 Nov	1736Z	01°00'N	26°25'W	26.7	36.87	SSE	11
35	19 Nov	1903Z	01°20'N	26°46'W	27.1	----	SSE	11
36	19 Nov	2037Z	01°40'N	27°08'W	27.0	----	SSE	11
37	19 Nov	2213Z	02°00'N	27°29'W	27.1	----	SSE	11
38	19 Nov	2357Z	02°20'N	27°53'W	27.0	36.12	SSE	11
39	20 Nov	0110Z	02°40'N	28°12'W	27.9	----	SSE	11
40	20 Nov	0246Z	03°00'N	28°34'W	27.8	----	SE	11
41	20 Nov	0415Z	03°20'N	28°54'W	27.8	----	SE	11
42	20 Nov	0602Z	03°40'N	29°17'W	28.0	----	SSE	11
43	20 Nov	0740Z	04°00'N	29°39'W	28.0	----	VAR	----
44	20 Nov	0915Z	04°20'N	29°59'W	28.2	----	VAR	----
45	20 Nov	1048Z	04°40'N	30°21'W	27.8	----	LT.VAR	----
46	20 Nov	1226Z	05°00'N	30°42'W	28.0	35.31	ENE	8
47	20 Nov	1410Z	05°20'N	31°04'W	28.0	----	ENE	8
48	20 Nov	1540Z	05°40'N	31°24'W	28.0	35.37	ENE	10
49	20 Nov	1707Z	06°00'N	31°41'W	28.2	----	ENE	12
50	20 Nov	1838Z	06°20'N	31°58'W	28.0	36.06	ENE	12
51	20 Nov	2015Z	06°40'N	32°19'W	27.7	----	NE	12
52	20 Nov	2140Z	07°00'N	32°35'W	27.5	----	NE	12
53	20 Nov	2320Z	07°20'N	32°57'W	27.7	----	NE	12
54	21 Nov	0040Z	07°40'N	33°17'W	28.0	36.65	NE	12
55	21 Nov	0215Z	08°00'N	33°39'W	28.0	----	ENE	12
56	21 Nov	0349Z	08°20'N	34°00'W	27.8	35.48	ENE	12
57	21 Nov	0521Z	08°40'N	34°24'W	27.7	----	ENE	12
58	21 Nov	0642Z	09°00'N	34°44'W	27.7	----	ENE	12
59	21 Nov	0814Z	09°20'N	35°07'W	27.9	----	ENE	14
60	21 Nov	0942Z	09°40'N	35°28'W	27.4	35.31	ENE	14
61	21 Nov	1130Z	10°00'N	35°54'W	----	34.51	ENE	14

17 - 21 NOV 1983

S.A. CONSTANTIA

S. A. CONSTANTIA

17-21 NOV. 1983

XBT Section 50, 2-6 Jan 84
S.A. Constantia, crossing equator at 25°37'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	2 Jan	(1200Z)	10°00'N	(36°10'W)	----	----	----	----
2	2 Jan	(1340Z)	09°40'N	(35°45'W)	----	----	----	----
3	2 Jan	1523Z	09°20'N	35°22'W	25.8	35.96	----	----
4	2 Jan	1700Z	09°00'N	35°00'W	26.0	----	----	----
5	2 Jan	1830Z	08°40'N	34°40'W	26.2	36.51	----	----
6	2 Jan	2000Z	08°20'N	34°19'W	26.3	----	NNE	16
7	2 Jan	2142Z	08°00'N	33°58'W	26.5	----	NNE	14
8	2 Jan	2329Z	07°40'N	(33°35'W)	26.8	----	NNE	12
9	3 Jan	0100Z	07°20'N	33°12'W	27.0	----	NE	11
10	3 Jan	0231Z	07°00'N	32°48'W	27.3	----	NE	11
11	3 Jan	0359Z	06°40'N	32°25'W	27.5	36.49	NE	11
12	3 Jan	0542Z	06°20'N	32°06'W	27.7	----	NE	18
13	3 Jan	0648Z	06°00'N	31°44'W	27.7	----	ENE	16
14	3 Jan	0815Z	05°40'N	31°22'W	27.6	----	ENE	16
15	3 Jan	0940Z	05°20'N	31°03'W	27.7	36.07	NE	16
16	3 Jan	1115Z	05°00'N	30°40'W	27.7	----	NE	8
17	3 Jan	1245Z	04°40'N	30°18'W	27.2	36.33	NE	11
18	3 Jan	1400Z	04°20'N	30°06'W	27.4	----	NE	11
19	3 Jan	1518Z	04°00'N	29°50'W	27.0	35.52	NE	10
20	3 Jan	1641Z	03°40'N	29°31'W	27.4	----	E	10
21	3 Jan	1802Z	03°20'N	29°11'W	27.7	33.57	SSE	10
22	3 Jan	1935Z	03°00'N	28°48'W	27.5	----	VAR	8
23	3 Jan	2057Z	02°40'N	28°27'W	27.3	35.30	VAR	8
24	3 Jan	(2230Z)	02°20'N	(28°05'W)	----	----	NW	8
25	3 Jan	2357Z	02°00'N	27°43'W	27.5	32.30	NW	8
26	4 Jan	0123Z	01°40'N	27°22'W	27.5	----	NW	8
27	4 Jan	0255Z	01°20'N	27°02'W	27.0	35.14	VAR	----
28	4 Jan	0429Z	01°00'N	26°40'W	27.0	----	S	16
29	4 Jan	0604Z	00°40'N	26°20'W	26.8	36.08	SE	14
30	4 Jan	0735Z	00°20'N	(26°00'W)	----	----	SSE	16
31	4 Jan	0910Z	00°00'	25°37'W	26.6	36.91	SSW	16

XBT Section 50, 2-6 Jan 84
 (Continued)

235

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	4 Jan	1048Z	00°20'S	25°15'W	26.5	---	SSE	12
33	4 Jan	1204Z	00°40'S	24°57'W	26.3	36.50	SE	12
34	4 Jan	1331Z	01°00'S	24°40'W	26.4	---	SE	14
35	4 Jan	1455Z	01°20'S	24°20'W	26.5	36.29	SE	16
36	4 Jan	1630Z	01°40'S	23°58'W	26.4	---	SE	16
37	4 Jan	1755Z	02°00'S	23°38'W	26.4	36.40	SE	16
38	4 Jan	1926Z	02°20'S	23°20'W	26.5	---	SE	16
39	4 Jan	2054Z	02°40'S	23°01'W	26.4	36.29	SE	16
40	4 Jan	2221Z	03°00'S	22°42'W	26.4	---	SE	16
41	4 Jan	2357Z	03°20'S	22°20'W	26.3	36.11	SE	16
42	5 Jan	0128Z	03°40'S	22°00'W	26.4	---	SE	16
43	5 Jan	0257Z	04°00'S	21°41'W	26.3	36.63	SE	16
44	5 Jan	0428Z	04°20'S	21°21'W	26.3	---	SE	18
45	5 Jan	0600Z	04°40'S	21°00'W	26.1	36.28	SE	18
46	5 Jan	0725Z	05°00'S	20°41'W	26.2	---	SE	16
47	5 Jan	0858Z	05°20'S	20°20'W	26.1	36.35	SE	12
48	5 Jan	1055Z	05°40'S	19°53'W	26.1	---	SE	12
49	5 Jan	1204Z	06°00'S	19°39'W	26.0	36.71	SE	12
50	5 Jan	1331Z	06°20'S	19°18'W	26.0	---	SE	16
51	5 Jan	1500Z	06°40'S	18°58'W	26.1	36.46	SE	12
52	5 Jan	1634Z	07°00'S	18°36'W	25.9	---	SE	16
53	5 Jan	1810Z	07°20'S	18°12'W	26.0	36.56	SE	16
54	5 Jan	1952Z	07°40'S	17°47'W	25.8	---	SE	12
55	5 Jan	2130Z	08°00'S	17°25'W	25.5	36.14	SE	16
56	5 Jan	2248Z	08°20'S	17°06'W	25.6	---	SE	16
57	6 Jan	0029Z	08°40'S	16°41'W	25.5	36.62	SE	16
58	6 Jan	0153Z	09°00'S	16°20'W	25.4	---	SE	12
59	6 Jan	0352Z	09°20'S	15°57'W	25.3	36.50	SE	12
60	6 Jan	0452Z	09°40'S	15°36'W	25.2	---	SE	12
61	6 Jan	0625Z	10°00'S	15°14'W	25.2	36.33	SE	16

S. A. CONSTANTIA

2-6 JAN. 1984

XBT Section 51, 20-23 Mar 84
M/S Elgaren, crossing equator at 09°43'W

239

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	20 Mar	0117Z	10°00'S	02°34'W	27.2	---	SSE	15
2	20 Mar	0232Z	09°40'S	02°49'W	27.6	---	SSE	15
3	20 Mar	0349Z	09°20'S	03°03'W	27.7	---	SSE	15
4	20 Mar	0504Z	09°00'S	03°17'W	28.0	---	SSE	15
5	20 Mar	0621Z	08°40'S	03°30'W	27.9	---	SSE	15
6	20 Mar	0738Z	08°20'S	03°47'W	28.0	---	SSE	15
7	20 Mar	0858Z	08°00'S	04°02'W	28.2	---	SSE	16
8	20 Mar	1015Z	07°40'S	04°16'W	---	---	SSE	16
9	20 Mar	1121Z	07°20'S	04°30'W	28.4	---	SSE	16
10	20 Mar	1249Z	07°00'S	04°44'W	28.5	---	SSE	16
11	20 Mar	1408Z	06°40'S	(05°00'W)	28.7	---	SSE	16
12	20 Mar	1524Z	06°20'S	05°15'W	28.7	---	SE	16
13	20 Mar	1639Z	06°00'S	05°29'W	28.9	---	SE	16
14	20 Mar	1758Z	05°40'S	05°43'W	28.8	---	SE	15
15	20 Mar	1910Z	05°20'S	05°57'W	28.6	---	SE	12
16	20 Mar	2024Z	05°00'S	06°09'W	28.7	---	SE	10
17	20 Mar	2140Z	04°40'S	06°22'W	28.7	---	SE	10
18	20 Mar	2256Z	04°20'S	06°37'W	28.9	---	SE	10
19	21 Mar	0010Z	04°00'S	06°52'W	28.9	---	SE	10
20	21 Mar	0124Z	03°40'S	07°05'W	28.8	---	SE	8
21	21 Mar	0239Z	03°20'S	07°19'W	28.9	---	SE	8
22	21 Mar	0359Z	03°00'S	07°33'W	28.9	---	SE	8
23	21 Mar	0514Z	02°40'S	07°47'W	29.0	---	SE	8
24	21 Mar	0623Z	02°20'S	08°00'W	29.0	---	WNW	3
25	21 Mar	0752Z	02°00'S	08°17'W	28.8	---	WNW	4
26	21 Mar	0910Z	01°40'S	08°32'W	29.0	---	WNW	4
27	21 Mar	1029Z	01°20'S	08°46'W	29.0	---	WNW	5
28	21 Mar	1149Z	01°00'S	09°00'W	28.8	---	WNW	6
29	21 Mar	1307Z	00°40'S	09°14'W	---	---	NW	10
30	21 Mar	1425Z	00°20'S	09°28'W	29.6	---	NW	8
31	21 Mar	1541Z	00°00'	09°43'W	29.4	---	NW	5

XBT Section 51, 20-23 Mar 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	21 Mar	1657Z	00°20'N	09°56'W	29.4	----	NW	4
33	21 Mar	1813Z	00°40'N	10°09'W	29.6	----	WNW	5
34	21 Mar	1931Z	01°00'N	10°22'W	29.5	----	WNW	5
35	21 Mar	2058Z	01°20'N	10°39'W	29.5	----	WNW	5
36	21 Mar	2215Z	01°40'N	10°52'W	29.5	----	WNW	5
37	21 Mar	2331Z	02°00'N	11°07'W	29.3	----	WNW	5
38	22 Mar	0046Z	02°20'N	11°19'W	29.7	----	WNW	5
39	22 Mar	0208Z	02°40'N	11°23'W	29.5	----	WNW	5
40	22 Mar	0330Z	03°00'N	11°47'W	29.5	----	WNW	5
41	22 Mar	0451Z	03°20'N	12°01'W	29.6	----	WNW	5
42	22 Mar	0610Z	03°40'N	12°15'W	29.4	----	WNW	5
43	22 Mar	0731Z	04°00'N	12°30'W	29.4	----	WNW	4
44	22 Mar	0849Z	04°20'N	12°45'W	29.3	----	VAR	----
45	22 Mar	1007Z	04°40'N	12°59'W	29.9	----	VAR	----
46	22 Mar	1126Z	05°00'N	13°12'W	29.8	----	SW	2
47	22 Mar	1248Z	05°20'N	13°26'W	29.3	----	WNW	3
48	22 Mar	1409Z	05°40'N	13°42'W	29.3	----	WNW	5
49	22 Mar	1528Z	06°00'N	13°55'W	29.2	----	NW	12
50	22 Mar	1646Z	06°20'N	14°09'W	29.1	----	NW	9
51	22 Mar	1806Z	06°40'N	14°23'W	29.0	----	NW	7
52	22 Mar	1924Z	07°00'N	14°35'W	29.0	----	VAR	7
53	22 Mar	2040Z	07°20'N	14°52'W	29.0	----	VAR	7
54	22 Mar	2159Z	07°40'N	15°06'W	----	----	VAR	7
55	22 Mar	2373Z	08°00'N	15°20'W	28.2	----	NW	9
56	23 Mar	0030Z	08°20'N	(15°35'W)	----	----	NW	10
57	23 Mar	0147Z	08°40'N	15°50'W	27.4	----	NW	15
58	23 Mar	0304Z	09°00'N	16°03'W	26.4	----	NW	15
59	23 Mar	0422Z	09°20'N	16°12'W	24.8	----	NW	15
60	23 Mar	0541Z	09°40'N	16°31'W	21.4	----	NW	12
61	23 Mar	0700Z	10°00'N	16°44'W	21.1	----	NW	10

240

XBT Section 52, 23-26 Apr 84
M/S Elgaren, crossing equator at 07°40'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	23 Apr	(1915Z)	09°58'N	16°28'W	27.5	---	NNW	13
2	23 Apr	2044Z	09°40'N	16°13'W	26.1	---	NNW	13
3	23 Apr	2205Z	09°20'N	15°55'W	27.6	---	SW	6
4	23 Apr	2329Z	09°00'N	15°37'W	28.1	---	SW	6
5	24 Apr	0052Z	08°40'N	15°18'W	29.0	---	SW	6
6	24 Apr	0213Z	08°20'N	14°58'W	28.9	---	SW	6
7	24 Apr	(0320Z)	08°00'N	14°40'W	28.7	---	SW	6
8	24 Apr	0455Z	07°40'N	14°23'W	28.5	---	SW	6
9	24 Apr	0616Z	07°20'N	14°05'W	28.6	---	W	9
10	24 Apr	0735Z	07°00'N	13°47'W	29.6	---	NW	5
11	24 Apr	0856Z	06°40'N	13°29'W	29.3	---	NW	5
12	24 Apr	1019Z	06°20'N	13°10'W	29.5	---	WNW	5
13	24 Apr	1143Z	06°00'N	12°53'W	29.6	---	S	6
14	24 Apr	1311Z	05°40'N	12°34'W	29.9	---	SSW	6
15	24 Apr	1437Z	05°20'N	12°17'W	30.0	---	SSW	6
16	24 Apr	1608Z	05°00'N	11°58'W	30.0	---	SSW	6
17	24 Apr	1733Z	04°40'N	11°40'W	30.0	---	SSW	6
18	24 Apr	1856Z	04°20'N	11°22'W	30.0	---	SSW	6
19	24 Apr	2021Z	04°00'N	11°04'W	29.8	---	SSW	6
20	24 Apr	2145Z	03°40'N	10°47'W	29.7	---	SSW	10
21	24 Apr	2308Z	03°20'N	10°27'W	29.7	---	SSW	10
22	25 Apr	0033Z	03°00'N	10°11'W	29.5	---	SSW	10
23	25 Apr	0159Z	02°40'N	09°54'W	29.5	---	SSW	10
24	25 Apr	0324Z	02°20'N	09°36'W	29.6	---	SSW	10
25	25 Apr	0450Z	02°00'N	09°21'W	29.5	---	SSW	10
26	25 Apr	0617Z	01°40'N	09°04'W	29.3	---	SSW	7
27	25 Apr	0743Z	01°20'N	08°45'W	29.3	---	SSE	10
28	25 Apr	0910Z	01°00'N	08°31'W	29.3	---	SSE	14
29	25 Apr	1037Z	00°40'N	08°15'W	29.2	---	SSE	12
30	25 Apr	1207Z	00°20'N	07°57'W	29.1	---	SSE	18
31	25 Apr	1336Z	00°00'	07°40'W	28.9	---	SSE	13

XBT Section 52, 23-26 Apr 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	25 Apr	1509Z	00°20'S	07°22'W	28.8	---	SSE	10
33	25 Apr	1640Z	00°40'S	07°04'W	28.4	---	SE	13
34	25 Apr	1810Z	01°00'S	06°50'W	28.5	---	SE	13
35	25 Apr	1948Z	01°20'S	06°31'W	28.5	---	SE	21
36	25 Apr	2113Z	01°40'S	06°15'W	28.6	---	SE	18
37	25 Apr	2246Z	02°00'S	05°56'W	---	---	SE	25
38	26 Apr	0049Z	02°20'S	05°33'W	---	---	SE	18
39	26 Apr	0153Z	02°40'S	05°21'W	28.6	---	SE	18
40	26 Apr	0332Z	03°00'S	(05°02'W)	28.5	---	SE	18
41	26 Apr	0459Z	03°20'S	04°45'W	28.7	---	SE	18
42	26 Apr	0628Z	03°40'S	04°28'W	29.2	---	SE	19
43	26 Apr	0756Z	04°00'S	04°12'W	28.5	---	SE	21
44	26 Apr	0928Z	04°20'S	03°51'W	28.7	---	SE	21
45	26 Apr	1058Z	04°40'S	03°37'W	28.8	---	SE	22
46	26 Apr	1228Z	05°00'S	03°19'W	28.8	---	SE	18
47	26 Apr	1400Z	05°20'S	03°00'W	29.0	---	SE	18
48	26 Apr	1530Z	05°40'S	02°42'W	28.8	---	SE	18
49	26 Apr	1704Z	06°00'S	02°23'W	28.8	---	SE	18
50	26 Apr	1832Z	06°20'S	02°07'W	28.8	---	SE	18
51	26 Apr	1959Z	06°40'S	01°49'W	28.5	---	SE	20

M. S. ELGAREN

23-26 APR 1984

XBT Section 53, 16-20 May 84
Victory, crossing equator at 21°02'W

246

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	16 May	0756Z	10°00'S	11°42'W	26.3	36.83	SE	10
2	16 May	0945Z	09°40'S	12°03'W	26.3	---	SE	10
3	16 May	1122Z	09°20'S	12°22'W	26.7	36.72	SExE	13
4	16 May	1304Z	09°00'S	12°41'W	26.7	---	SE	13
5	16 May	1447Z	08°40'S	13°01'W	27.3	36.55	SE	13
6	16 May	1638Z	08°20'S	13°21'W	27.3	---	SE	12
7	16 May	1806Z	08°00'S	(13°43'W)	27.8	36.26	SE	9
8	16 May	1950Z	07°40'S	14°03'W	27.5	---	SE	9
9	16 May	2123Z	07°20'S	14°21'W	27.6	35.93	SE	10
10	16 May	2306Z	07°00'S	14°40'W	27.6	---	SE	10
11	17 May	0041Z	06°40'S	14°57'W	27.9	35.87	SE	10
12	17 May	0215Z	06°20'S	15°14'W	27.8	---	SE	8
13	17 May	0350Z	06°00'S	15°31'W	27.8	35.60	SE	8
14	17 May	0540Z	05°40'S	15°42'W	27.8	---	SE	8
15	17 May	0720Z	05°20'S	16°13'W	27.6	35.56	SE	8
16	17 May	0900Z	05°00'S	16°33'W	27.5	---	SE	13
17	17 May	1040Z	04°40'S	16°52'W	27.7	35.83	SE	15
18	17 May	1217Z	04°20'S	17°11'W	27.3	---	ESE	15
19	17 May	1349Z	04°00'S	17°28'W	27.4	35.37	E	19
20	17 May	1522Z	03°40'S	17°44'W	27.4	---	ESE	13
21	17 May	1708Z	03°20'S	18°07'W	27.7	36.19	ESE	13
22	17 May	1840Z	03°00'S	(18°26'W)	27.5	---	ESE	15
23	17 May	2030Z	02°40'S	18°45'W	27.6	35.93	ESE	10
24	17 May	2152Z	02°20'S	19°01'W	27.6	---	ESE	10
25	17 May	2318Z	02°00'S	19°18'W	27.6	35.67	ESE	10
26	18 May	0045Z	01°40'S	19°35'W	27.7	---	ESE	10
27	18 May	0211Z	01°20'S	19°52'W	27.7	36.16	ESE	10
28	18 May	0337Z	01°00'S	20°08'W	27.7	---	ESE	10
29	18 May	0500Z	00°40'S	20°25'W	27.8	36.12	ESE	10
30	18 May	0739Z	00°20'S	20°44'W	27.5	---	ESE	8
31	18 May	0911Z	00°00'	21°02'W	27.7	35.94	ESE	10

XBT Section 53, 16-20 May 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	18 May	1048Z	00°20'N	21°20'W	27.7	---	SExE	13
33	18 May	1223Z	00°40'N	21°38'W	28.1	35.73	SExE	13
34	18 May	1359Z	01°00'N	21°36'W	28.3	---	SE	13
35	18 May	1536Z	01°20'N	22°14'W	28.4	35.05	ESE	10
36	18 May	1704Z	01°40'N	22°37'W	28.6	---	ESE	10
37	18 May	1845Z	02°00'N	22°59'W	28.8	35.09	ESE	8
38	18 May	2023Z	02°20'N	23°15'W	29.0	---	ESE	10
39	18 May	2142Z	02°40'N	23°36'W	28.9	---	ESE	9
40	18 May	2315Z	03°00'N	23°53'W	28.7	34.67	ESE	8
41	19 May	0043Z	03°20'N	24°10'W	28.7	---	ESE	8
42	19 May	0211Z	03°40'N	24°27'W	28.3	34.75	ESE	5
43	19 May	0341Z	04°00'N	24°44'W	28.4	---	VAR	---
44	19 May	0514Z	04°20'N	25°00'W	28.2	35.93	LT AIRS	---
45	19 May	0707Z	04°40'N	25°20'W	28.1	---	LT AIRS	---
46	19 May	0840Z	05°00'N	25°39'W	27.9	36.10	LT VAR	---
47	19 May	1012Z	05°20'N	25°56'W	28.0	---	LT VAR	---
48	19 May	1203Z	05°40'N	26°16'W	28.2	36.73	LT AIRS	---
49	19 May	1343Z	06°00'N	26°35'W	28.2	---	NE	8
50	19 May	1522Z	06°20'N	26°53'W	28.2	36.91	NE xN	8
51	19 May	1701Z	06°40'N	27°12'W	28.0	---	NE	13
52	19 May	1840Z	07°00'N	27°30'W	27.7	35.50	NNE	10
53	19 May	2020Z	07°20'N	(27°47'W)	27.2	---	NE	15
54	19 May	2200Z	07°40'N	28°05'W	27.2	36.20	NE	15
55	19 May	2340Z	08°00'N	28°24'W	27.0	---	NE	15
56	20 May	0117Z	08°20'N	28°42'W	27.0	37.18	NE	15
57	20 May	0300Z	08°40'N	29°02'W	26.5	---	NE	15
58	20 May	0443Z	09°00'N	29°22'W	26.5	36.60	NE	13
59	20 May	0701Z	09°20'N	29°44'W	26.3	---	NE	13
60	20 May	0834Z	09°40'N	30°07'W	26.0	36.48	NNE	10
61	20 May	1010Z	10°00'N	30°26'W	25.4	---	NNE	12
						---	NE	13

VICTORY

16-20 MAY 1984

XBT Section 54, 23-28 Jun 84
Victory, crossing equator at 21°13'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	23 Jun	1924Z	10°00'N	31°08'W	----	36.54	NE	15
2	23 Jun	2134Z	09°40'N	(30°48'W)	----	----	NE	10
3	23 Jun	2305Z	09°20'N	30°28'W	27.4	36.05	NE	10
4	24 Jun	0054Z	09°00'N	30°09'W	27.4	----	NE	10
5	24 Jun	0242Z	08°40'N	29°49'W	27.6	35.81	NE	10
6	24 Jun	0439Z	08°20'N	29°26'W	27.9	----	NE	8
7	24 Jun	0633Z	08°00'N	29°03'W	28.0	35.23	NE	5
8	24 Jun	0842Z	07°40'N	28°37'W	28.0	----	NNE	10
9	24 Jun	1018Z	07°20'N	28°19'W	27.9	34.34	NNE	4
10	24 Jun	1204Z	07°00'N	27°59'W	28.0	----	NW	9
11	24 Jun	1349Z	06°40'N	27°39'W	27.8	34.90	SSW	5
12	24 Jun	1514Z	06°20'N	27°18'W	27.8	----	S	9
13	24 Jun	1654Z	06°00'N	26°57'W	27.9	34.84	SSW	10
14	24 Jun	1838Z	05°40'N	26°34'W	27.7	----	SW	10
15	24 Jun	2031Z	05°20'N	26°09'W	28.7	35.43	LT VAR	----
16	24 Jun	2211Z	05°00'N	25°48'W	27.9	----	LT VAR	----
17	25 Jun	0022Z	04°40'N	(25°30'W)	28.3	34.58	SSE	4
18	25 Jun	0200Z	04°20'N	25°09'W	27.8	----	SSE	7
19	25 Jun	0357Z	04°00'N	24°44'W	28.2	35.02	SSE	10
20	25 Jun	0552Z	03°40'N	24°25'W	28.3	----	SSE	10
21	25 Jun	0742Z	03°20'N	24°05'W	28.2	35.23	SE	15
22	25 Jun	0915Z	03°00'N	23°48'W	----	----	SExS	15
23	25 Jun	1105Z	02°40'N	23°30'W	27.8	35.09	SExS	15
24	25 Jun	1247Z	02°20'N	23°11'W	27.9	----	SE	15
25	25 Jun	1439Z	02°00'N	22°56'W	27.7	35.52	SE	13
26	25 Jun	1629Z	01°40'N	22°41'W	27.5	----	SE	13
27	25 Jun	1841Z	01°20'N	22°23'W	25.6	36.09	SE	10
28	25 Jun	2032Z	01°00'N	22°07'W	24.9	----	SE	8
29	25 Jun	2250Z	00°40'N	21°51'W	24.2	36.14	SE	10
30	26 Jun	0111Z	00°20'N	21°32'W	24.2	----	SE	10
31	26 Jun	0331Z	00°00'	21°13'W	24.0	36.09	SE	8

XBT Section 54, 23-28 Jun 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	26 Jun	0600Z	00°20'S	20°45'W	23.9	---	SE	8
33	26 Jun	0756Z	00°40'S	20°21'W	24.0	36.31	SE	8
34	26 Jun	0945Z	01°00'S	20°10'W	24.1	---	SE	9
35	26 Jun	1142Z	01°20'S	19°51'W	24.4	36.53	SE	10
36	26 Jun	1340Z	01°40'S	19°32'W	24.5	---	SE	9
37	26 Jun	1550Z	02°00'S	19°17'W	24.6	36.75	SE	10
38	26 Jun	1832Z	02°20'S	18°58'W	24.9	---	SE	10
39	26 Jun	2016Z	02°40'S	18°42'W	25.0	36.24	SE	10
40	26 Jun	2200Z	03°00'S	18°28'W	25.0	---	SE	10
41	27 Jun	0008Z	03°20'S	18°10'W	25.1	35.96	SE	10
42	27 Jun	0211Z	03°40'S	17°54'W	25.2	---	SE	10
43	27 Jun	0407Z	04°00'S	17°38'W	25.3	35.94	SE	10
44	27 Jun	0607Z	04°20'S	17°19'W	25.6	---	SE	9
45	27 Jun	0818Z	04°40'S	16°59'W	25.6	36.28	SE	12
46	27 Jun	0925Z	05°00'S	16°45'W	25.5	---	SE	10
47	27 Jun	1114Z	05°20'S	16°26'W	26.0	36.01	SE	12
48	27 Jun	1255Z	05°40'S	16°07'W	26.4	---	SE	12
49	27 Jun	1533Z	06°00'S	15°55'W	26.5	36.04	SE	12
50	27 Jun	1746Z	06°20'S	15°37'W	26.4	---	SE	13
51	27 Jun	1957Z	06°40'S	15°18'W	26.4	---	SE	10
52	27 Jun	2153Z	07°00'S	15°02'W	26.4	---	SE	15
53	28 Jun	0004Z	07°20'S	14°43'W	26.4	35.76	SE	15
54	28 Jun	0158Z	07°40'S	14°26'W	26.6	---	SE	17
55	28 Jun	0432Z	08°00'S	14°08'W	26.1	36.86	SE	15
56	28 Jun	0630Z	08°20'S	13°43'W	26.1	---	SE	13
57	28 Jun	0817Z	08°40'S	13°27'W	26.1	36.13	SE	10
58	28 Jun	1012Z	09°00'S	13°08'W	25.8	---	SE	10
59	28 Jun	1218Z	09°20'S	12°47'W	25.9	36.38	SE	9
60	28 Jun	1420Z	09°40'S	12°27'W	25.8	---	SE	12
61	28 Jun	1629Z	10°00'S	12°05'W	25.5	36.43	SE	11

23-28 JUNE 1984

VICTORY

VICTORY

23-28 JUNE 1984

XBT Section 55, 27-31 May 84
M/S Elgaren, crossing equator at 09°34'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	27 May	1943Z	10°00'S	02°24'W	25.7	36.84	SE	18
2	27 May	2102Z	09°40'S	02°39'W	25.6	----	SE	18
3	27 May	2231Z	09°20'S	02°55'W	25.5	36.79	SE	18
4	27 May	2336Z	09°00'S	03°07'W	25.7	----	SE	18
5	28 May	0055Z	08°40'S	03°21'W	25.8	36.65	SE	18
6	28 May	0219Z	08°20'S	03°37'W	26.0	----	SE	18
7	28 May	0340Z	08°00'S	03°52'W	26.8	36.26	SE	18
8	28 May	0459Z	07°40'S	04°06'W	26.8	----	SE	18
9	28 May	0615Z	07°20'S	04°19'W	26.4	36.34	SE	18
10	28 May	0739Z	07°00'S	04°34'W	26.3	----	SE	18
11	28 May	0852Z	06°40'S	04°48'W	26.6	36.38	SE	18
12	28 May	1015Z	06°20'S	05°02'W	----	----	SE	18
13	28 May	1132Z	06°00'S	05°17'W	26.8	36.23	SE	18
14	28 May	1250Z	05°40'S	05°31'W	26.7	----	SE	18
15	28 May	1409Z	05°20'S	05°45'W	27.3	35.89	SE	15
16	28 May	1528Z	05°00'S	05°59'W	27.4	----	SE	15
17	28 May	1656Z	04°40'S	(06°15'W)	----	35.83	SE	15
18	28 May	1818Z	04°20'S	06°32'W	27.0	----	SE	15
19	28 May	1928Z	04°00'S	06°45'W	27.0	35.92	SE	10
20	28 May	2046Z	03°40'S	06°59'W	26.8	----	SE	10
21	28 May	2209Z	03°20'S	07°16'W	26.6	35.92	SE	10
22	28 May	(2325Z)	03°00'S	(07°30'W)	----	----	SE	12
23	29 May	(0040Z)	02°40'S	(07°44'W)	----	----	SE	14
24	29 May	0154Z	02°20'S	07°57'W	26.8	----	SE	14
25	29 May	0316Z	02°00'S	08°12'W	26.8	35.82	SE	14
26	29 May	0430Z	01°40'S	08°25'W	26.7	----	SE	14
27	29 May	0546Z	01°20'S	08°38'W	26.7	35.79	SE	14
28	29 May	0703Z	01°00'S	08°51'W	26.6	----	SSE	12
29	29 May	0818Z	00°40'S	09°05'W	26.5	35.91	SSE	12
30	29 May	0951Z	00°20'S	09°21'W	26.5	----	S	10
31	29 May	(1105Z)	00°00'	(09°34'W)	----	35.83	S	10

XBT Section 55, 27-31 May 84
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	29 May	(1220Z)	00°20'N	(09°47'W)	---	---	S	10
33	29 May	(1335Z)	00°40'N	(10°00'W)	---	35.41	S	10
34	29 May	1448Z	01°00'N	10°13'W	28.1	---	SSE	10
35	29 May	1614Z	01°20'N	10°27'W	29.0	35.02	SSE	10
36	29 May	1738Z	01°40'N	10°43'W	28.9	---	SSE	12
37	29 May	1858Z	02°00'N	10°56'W	29.1	35.45	SSE	14
38	29 May	2022Z	02°20'N	11°09'W	29.0	---	SSE	14
39	29 May	2151Z	02°40'N	11°22'W	29.2	35.17	SSE	14
40	29 May	2319Z	03°00'N	11°36'W	28.9	---	SSE	14
41	30 May	0045Z	03°20'N	11°49'W	28.9	35.01	SSE	14
42	30 May	0213Z	03°40'N	12°03'W	28.7	---	SSE	14
43	30 May	0342Z	04°00'N	12°17'W	28.7	34.92	SSE	14
44	30 May	0508Z	04°20'N	12°31'W	28.9	---	SSE	14
45	30 May	0636Z	04°40'N	12°44'W	29.4	34.19	SSE	14
46	30 May	0804Z	05°00'N	12°58'W	29.1	---	W	14
47	30 May	0922Z	05°20'N	13°04'W	29.1	34.29	W	14
48	30 May	1100Z	05°40'N	13°18'W	29.4	---	W	14
49	30 May	1236Z	06°00'N	13°33'W	29.5	35.19	W	14
50	30 May	1409Z	06°20'N	13°47'W	29.5	---	W	14
51	30 May	1542Z	06°40'N	14°00'W	29.3	35.68	W	14
52	30 May	1718Z	07°00'N	14°14'W	29.4	---	W	14
53	30 May	1852Z	07°20'N	14°29'W	29.4	35.90	W	10
54	30 May	2027Z	07°40'N	14°43'W	29.2	---	W	12
55	30 May	2207Z	08°00'N	14°58'W	29.4	35.67	WNW	8
56	30 May	2344Z	08°20'N	15°12'W	29.0	---	WNW	10
57	31 May	0118Z	08°40'N	15°26'W	29.0	36.26	WNW	12
58	31 May	0254Z	09°00'N	15°41'W	29.2	---	WNW	10
59	31 May	0420Z	09°20'N	15°55'W	29.1	35.20	WNW	10
60	31 May	0555Z	09°40'N	16°09'W	29.0	---	WNW	12
61	31 May	0727Z	10°00'N	16°23'W	28.2	36.24	---	---

M. S. ELGAREN

27-31 MAY 1984

XBT Section 56, 2-6 Jul 84
M/S Elgaren, crossing equator at 08°03'W

259

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	2 Jul	0524Z	10°00'N	17°02'W	28.8	---	WSW	LA
2	2 Jul	0653Z	09°40'N	16°43'W	28.2	36.13	WSW	LA
3	2 Jul	0825Z	09°20'N	16°25'W	28.1	---	WSW	5
4	2 Jul	1006Z	09°00'N	16°06'W	28.1	35.96	WSW	5
5	2 Jul	1145Z	08°40'N	15°47'W	28.0	---	S	8
6	2 Jul	1323Z	08°20'N	(15°28'W)	---	35.96	S	8
7	2 Jul	1501Z	08°00'N	15°09'W	28.5	---	SSE	6
8	2 Jul	1628Z	07°40'N	14°50'W	28.4	35.72	SSE	4
9	2 Jul	1801Z	07°20'N	14°32'W	28.6	---	SSE	4
10	2 Jul	1934Z	07°00'N	14°16'W	28.5	35.74	---	---
11	2 Jul	2113Z	06°40'N	13°57'W	28.1	---	S	14
12	2 Jul	2252Z	06°20'N	13°38'W	28.0	---	S	14
13	3 Jul	0032Z	06°00'N	13°20'W	27.8	---	S	14
14	3 Jul	0212Z	05°40'N	13°02'W	27.5	35.24	S	19
15	3 Jul	(0348Z)	05°20'N	(12°43'W)	---	---	S	19
16	3 Jul	0524Z	05°00'N	12°25'W	27.6	35.02	S	10
17	3 Jul	0701Z	04°40'N	12°07'W	27.7	---	SSE	16
18	3 Jul	0840Z	04°20'N	11°49'W	27.5	35.03	SSE	16
19	3 Jul	1019Z	04°00'N	11°30'W	27.6	---	SSE	16
20	3 Jul	1157Z	03°40'N	11°12'W	27.6	35.21	SSE	16
21	3 Jul	1336Z	03°20'N	10°54'W	27.3	---	SSE	16
22	3 Jul	1513Z	03°00'N	10°35'W	27.6	35.32	S	15
23	3 Jul	1651Z	02°40'N	10°17'W	27.3	---	S	18
24	3 Jul	1830Z	02°20'N	10°00'W	27.0	36.31	SSE	18
25	3 Jul	2017Z	02°00'N	09°43'W	26.5	---	SSE	18
26	3 Jul	2200Z	01°40'N	09°24'W	26.2	35.93	SSE	18
27	3 Jul	2341Z	01°20'N	09°06'W	26.2	---	SSE	12
28	4 Jul	0121Z	01°00'N	08°48'W	---	35.87	SSE	12
29	4 Jul	0312Z	00°40'N	08°38'W	25.1	---	SSE	12
30	4 Jul	0454Z	00°20'N	08°21'W	23.8	36.05	SSE	LA
31	4 Jul	0636Z	00°00'	08°03'W	23.0	---	S	5

XBT Section 56, 2-6 Jul 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	4 Jul	0820Z	00°20'S	07°43'W	23.0	36.06	SSE	10
33	4 Jul	1004Z	00°40'S	07°23'W	23.5	----	SSE	10
34	4 Jul	1148Z	01°00'S	07°03'W	24.0	36.22	SE	8
35	4 Jul	1330Z	01°20'S	06°43'W	----	----	SE	8
36	4 Jul	1523Z	01°40'S	06°26'W	24.5	36.36	S	10
37	4 Jul	1706Z	02°00'S	06°08'W	24.5	----	S	12
38	4 Jul	1851Z	02°20'S	05°49'W	24.5	36.32	SE	25
39	4 Jul	2033Z	02°40'S	05°31'W	24.5	----	SSE	25
40	4 Jul	2219Z	03°00'S	(05°12'W)	----	36.25	SSE	26
41	5 Jul	0005Z	03°20'S	04°52'W	24.7	----	SSE	24
42	5 Jul	0151Z	03°40'S	04°33'W	24.5	36.33	SSE	24
43	5 Jul	0333Z	04°00'S	04°17'W	24.8	----	SSE	24
44	5 Jul	0519Z	04°20'S	03°58'W	24.8	35.99	SSE	24
45	5 Jul	0702Z	04°40'S	03°41'W	24.9	----	SSE	24
46	5 Jul	0846Z	05°00'S	03°23'W	25.3	36.18	SSE	24
47	5 Jul	1031Z	05°20'S	03°04'W	25.7	----	SSE	24
48	5 Jul	1216Z	05°40'S	02°45'W	25.9	36.36	SSE	22
49	5 Jul	1354Z	06°00'S	02°26'W	25.9	----	SSE	22
50	5 Jul	1533Z	06°20'S	02°07'W	25.7	36.23	SSE	22
51	5 Jul	1711Z	06°40'S	01°57'W	25.3	----	SSE	22
52	5 Jul	1853Z	07°00'S	01°27'W	25.3	36.24	SSE	22
53	5 Jul	2021Z	07°20'S	01°10'W	25.2	----	SSE	22
54	5 Jul	2154Z	07°40'S	00°52'W	25.0	36.36	SSE	22
55	5 Jul	2328Z	08°00'S	00°34'W	25.6	----	SSE	22
56	6 Jul	0103Z	08°20'S	00°17'W	25.4	36.23	SSE	18
57	6 Jul	0240Z	08°40'S	00°01'E	25.3	----	SSE	18
58	6 Jul	0419Z	09°00'S	00°19'E	25.5	36.28	SSE	18
59	6 Jul	0541Z	09°20'S	00°38'E	25.3	----	SSE	18
60	6 Jul	0717Z	09°40'S	00°57'E	24.9	36.28	SSE	18
61	6 Jul	0854Z	10°00'S	01°00'E	25.1	----	SSE	18

M. S. ELGAREN

2-6 JULY 1984

XBT Section 57, 2-6 Aug 84
Victory, crossing equator at 21°34'W

264

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	2 Aug	1012Z	10°00'S	11°38'W	24.2	---	SSE	13
2	2 Aug	1156Z	09°40'S	11°58'W	24.4	---	SE	13
3	2 Aug	1336Z	09°20'S	12°20'W	24.7	---	SE	8
4	2 Aug	1523Z	09°00'S	12°40'W	24.7	---	SE	8
5	2 Aug	1717Z	08°40'S	13°00'W	24.8	---	SE	13
6	2 Aug	1900Z	08°20'S	13°20'W	24.9	---	SE	13
7	2 Aug	2040Z	08°00'S	13°40'W	25.0	---	SE	13
8	2 Aug	2235Z	07°40'S	13°59'W	25.2	---	SE	13
9	3 Aug	0018Z	07°20'S	14°18'W	25.3	---	SE	13
10	3 Aug	0205Z	07°00'S	14°38'W	25.1	---	SE	13
11	3 Aug	0350Z	06°40'S	14°58'W	25.2	---	SE	8
12	3 Aug	0555Z	06°20'S	15°20'W	25.0	---	SE	8
13	3 Aug	0740Z	06°00'S	15°41'W	24.4	---	SE	13
14	3 Aug	0919Z	05°40'S	15°58'W	24.0	---	SE	13
15	3 Aug	1015Z	05°20'S	16°19'W	24.0	---	SE	13
16	3 Aug	1259Z	05°00'S	16°43'W	24.4	---	SE	13
17	3 Aug	1444Z	04°40'S	17°02'W	24.6	---	SE	13
18	3 Aug	1630Z	04°20'S	17°22'W	24.9	---	SE	13
19	3 Aug	1823Z	04°00'S	17°42'W	25.7	---	SE	13
20	3 Aug	2014Z	03°40'S	18°01'W	25.0	---	SE	13
21	3 Aug	2155Z	03°20'S	18°20'W	24.8	---	SE	13
22	3 Aug	2339Z	03°00'S	18°40'W	24.8	---	SE	8
23	4 Aug	0112Z	02°40'S	18°54'W	24.8	---	SE	8
24	4 Aug	0303Z	02°20'S	19°13'W	24.7	---	SE	8
25	4 Aug	0458Z	02°00'S	19°32'W	24.5	---	SE	8
26	4 Aug	0702Z	01°40'S	19°53'W	24.7	---	SE	8
27	4 Aug	0853Z	01°20'S	(20°11'W)	24.6	---	SE	8
28	4 Aug	1052Z	01°00'S	20°29'W	24.7	---	SE	8
29	4 Aug	1239Z	00°40'S	20°48'W	25.0	---	SE	13
30	4 Aug	1450Z	00°20'S	21°14'W	25.2	---	SE	13
31	4 Aug	1646Z	00°00'	21°34'W	25.4	---	SE	13

XBT Section 57, 2-6 Aug 84
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	4 Aug	1849Z	00°20'N	21°50'W	25.4	---	SE	8
33	4 Aug	2034Z	00°40'N	22°13'W	25.5	---	SE	8
34	4 Aug	2215Z	01°00'N	22°31'W	25.5	---	SE	8
35	5 Aug	0012Z	01°20'N	22°52'W	25.7	---	SE	8
36	5 Aug	0138Z	01°40'N	23°08'W	25.8	---	SE	8
37	5 Aug	0324Z	02°00'N	23°27'W	26.2	---	SE	5
38	5 Aug	0510Z	02°20'N	23°46'W	26.3	---	SE	5
39	5 Aug	0705Z	02°40'N	24°04'W	26.7	---	SE	8
40	5 Aug	0845Z	03°00'N	24°23'W	27.5	---	SE	8
41	5 Aug	1025Z	03°20'N	24°41'W	27.5	---	SE	8
42	5 Aug	1213Z	03°40'N	24°59'W	27.6	---	SE	13
43	5 Aug	1348Z	04°00'N	25°15'W	27.8	---	SE	13
44	5 Aug	1531Z	04°20'N	25°33'W	27.8	---	SE	13
45	5 Aug	1751Z	04°40'N	25°51'W	27.8	---	SE	13
46	5 Aug	1900Z	05°00'N	26°07'W	27.6	---	SE	13
47	5 Aug	2033Z	05°20'N	26°21'W	27.8	---	SSE	13
48	5 Aug	2230Z	05°40'N	26°42'W	27.8	---	SSW	8
49	6 Aug	0001Z	06°00'N	26°56'W	---	---	SSW	5
50	6 Aug	0145Z	06°20'N	27°14'W	27.9	---	SSW	5
51	6 Aug	0359Z	06°40'N	27°34'W	27.5	---	SW	13
52	6 Aug	0543Z	07°00'N	27°51'W	27.8	---	SW	13
53	6 Aug	0719Z	07°20'N	28°09'W	27.9	---	S	8
54	6 Aug	0907Z	07°40'N	28°27'W	28.0	---	S	13
55	6 Aug	1050Z	08°00'N	28°52'W	28.0	---	SSW	8
56	6 Aug	1249Z	08°20'N	29°01'W	27.8	---	SSW	5
57	6 Aug	1421Z	08°40'N	29°21'W	28.1	---	SSW	13
58	6 Aug	1559Z	09°00'N	29°30'W	28.0	---	SSW	13
59	6 Aug	1742Z	09°20'N	29°55'W	27.9	---	SW	8
60	6 Aug	1925Z	09°40'N	30°12'W	28.0	---	S	8
61	6 Aug	2059Z	10°00'N	30°30'W	27.9	---	LVar	---

XBT Section 58, 15-20 Sep 84
Victory, crossing equator at 21°06'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	15 Sep	1620Z	10°00'N	31°26'W	28.3	---	NNE	8
2	15 Sep	1800Z	09°40'N	31°06'W	28.5	---	NE	8
3	15 Sep	1945Z	09°20'N	30°45'W	28.4	---	NNE	8
4	15 Sep	2129Z	09°00'N	30°25'W	28.4	---	N	8
5	15 Sep	2310Z	08°40'N	30°05'W	28.2	---	N	8
6	16 Sep	0050Z	08°20'N	29°45'W	28.4	---	N	8
7	16 Sep	0234Z	08°00'N	29°25'W	28.3	---	NE	5
8	16 Sep	0420Z	07°40'N	29°03'W	28.4	---	LVar	---
9	16 Sep	0603Z	07°20'N	28°42'W	28.3	---	LVar	---
10	16 Sep	0739Z	07°00'N	28°23'W	28.4	---	SW	8
11	16 Sep	0925Z	06°40'N	28°02'W	28.2	---	SW	8
12	16 Sep	1228Z	06°20'N	27°38'W	28.2	---	SW	13
13	16 Sep	1427Z	06°00'N	27°18'W	28.2	---	SSW	13
14	16 Sep	1628Z	05°40'N	26°56'W	28.1	---	S	13
15	16 Sep	1836Z	05°20'N	26°35'W	28.2	---	S	13
16	16 Sep	2032Z	05°00'N	26°10'W	28.1	---	S	13
17	16 Sep	2230Z	04°40'N	(25°46'W)	28.2	---	S	13
18	17 Sep	0025Z	04°20'N	25°37'W	28.1	---	S	13
19	17 Sep	0245Z	04°00'N	25°09'W	27.7	---	SSE	8
20	17 Sep	0453Z	03°40'N	24°48'W	27.7	---	SSE	8
21	17 Sep	0709Z	03°20'N	24°26'W	27.7	---	SSE	8
22	17 Sep	0900Z	03°00'N	24°09'W	27.8	---	SW	8
23	17 Sep	1055Z	02°40'N	23°50'W	27.8	---	S	8
24	17 Sep	1307Z	02°20'N	23°27'W	27.8	---	SSE	8
25	17 Sep	1513Z	02°00'N	23°06'W	27.8	---	SE	13
26	17 Sep	1730Z	01°40'N	22°43'W	27.4	---	S	8
27	17 Sep	1930Z	01°20'N	22°25'W	26.4	---	SE	8
28	17 Sep	2134Z	01°00'N	22°06'W	26.0	---	SE	8
29	17 Sep	2300Z	00°40'N	21°43'W	26.0	---	SE	8
30	18 Sep	0103Z	00°20'N	21°26'W	25.9	---	SE	8
31	18 Sep	0301Z	00°00'	21°06'W	25.7	---	SE	8

XBT Section 58, 15-20 Sep 84
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	18 Sep	0502Z	00°20'S	20°47'W	25.6	---	SE	8
33	18 Sep	0718Z	00°40'S	20°25'W	25.5	---	SE	8
34	18 Sep	0913Z	01°00'S	20°08'W	25.5	---	SE	8
35	18 Sep	1118Z	01°20'S	19°46'W	25.7	---	SE	13
36	18 Sep	1313Z	01°40'S	19°29'W	25.7	---	SE	19
37	18 Sep	1518Z	02°00'S	19°09'W	25.8	---	SE	19
38	18 Sep	1730Z	02°20'S	18°47'W	25.6	---	SE	13
39	18 Sep	1934Z	02°40'S	18°28'W	25.6	---	SE	13
40	18 Sep	2135Z	03°00'S	18°09'W	25.5	---	SE	19
41	18 Sep	2345Z	03°20'S	(17°42'W)	25.5	---	SE	13
42	19 Sep	0138Z	03°40'S	17°32'W	25.3	---	SE	19
43	19 Sep	0340Z	04°00'S	17°13'W	---	---	SE	13
44	19 Sep	0605Z	04°20'S	16°41'W	25.2	---	SE	13
45	19 Sep	0755Z	04°40'S	(16°28'W)	---	---	SE	19
46	19 Sep	1000Z	05°00'S	16°14'W	25.0	---	SE	13
47	19 Sep	1210Z	05°20'S	15°54'W	24.9	---	SE	8
48	19 Sep	1403Z	05°40'S	15°38'W	---	---	SE	8
49	19 Sep	1606Z	06°00'S	15°19'W	25.1	---	SE	8
50	19 Sep	1815Z	06°20'S	14°58'W	24.6	---	SE	13
51	19 Sep	1944Z	06°40'S	14°38'W	24.6	---	SE	13
52	19 Sep	2113Z	07°00'S	14°23'W	24.6	---	SE	13
53	19 Sep	2321Z	07°20'S	14°03'W	24.3	---	SE	13
54	20 Sep	0119Z	07°40'S	13°44'W	24.4	---	SE	13
55	20 Sep	0319Z	08°00'S	13°25'W	24.4	---	SE	13
56	20 Sep	0550Z	08°20'S	13°02'W	24.3	---	SE	13
57	20 Sep	0937Z	08°40'S	(12°40'W)	---	---	SE	8
58	20 Sep	----	09°00'S	12°21'W	24.1	---	SE	5
59	20 Sep	----	09°20'S	(12°00'W)	---	---	SE	5
60	20 Sep	----	09°40'S	(11°40'W)	---	---	SE	8
61	20 Sep	----	10°00'S	(11°20'W)	---	---	SE	5

XBT Section 59, 8-11 Aug 84
M/S Elgaren, crossing equator at 09°45'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	8 Aug	0311Z	10°00'S	02°38'W	23.2	36.55	NW	2
2	8 Aug	0425Z	09°40'S	02°53'W	23.5	---	NW	2
3	8 Aug	0537Z	09°20'S	03°07'W	23.8	36.51	NW	2
4	8 Aug	0650Z	09°00'S	03°29'W	23.4	---	SSW	3
5	8 Aug	0803Z	08°40'S	03°35'W	---	36.98	S	10
6	8 Aug	0917Z	08°20'S	03°50'W	24.0	---	SSE	10
7	8 Aug	1130Z	08°00'S	04°04'W	23.9	36.77	SSE	10
8	8 Aug	1149Z	07°40'S	04°18'W	---	---	SSE	10
9	8 Aug	1259Z	07°20'S	04°33'W	24.4	36.25	S	12
10	8 Aug	1412Z	07°00'S	04°47'W	24.4	---	SSE	12
11	8 Aug	1527Z	06°40'S	05°00'W	24.5	36.49	SSE	12
12	8 Aug	1645Z	06°20'S	05°15'W	24.6	---	SSE	10
13	8 Aug	1802Z	06°00'S	05°29'W	24.7	36.01	SSE	10
14	8 Aug	1921Z	05°40'S	05°43'W	24.0	---	SSE	10
15	8 Aug	2039Z	05°20'S	05°57'W	24.0	36.57	SSE	10
16	8 Aug	2158Z	05°00'S	06°11'W	23.9	---	SSE	10
17	8 Aug	2316Z	04°40'S	06°25'W	23.8	36.30	SSE	10
18	9 Aug	0035Z	04°20'S	06°39'W	23.6	---	SSE	10
19	9 Aug	0149Z	04°00'S	06°59'W	23.4	36.69	SE	8
20	9 Aug	0305Z	03°40'S	07°14'W	23.1	---	SE	16
21	9 Aug	0522Z	03°20'S	07°28'W	23.2	---	SE	10
22	9 Aug	0540Z	03°00'S	07°40'W	23.3	---	SE	10
23	9 Aug	0658Z	02°40'S	07°56'W	23.2	36.53	SSE	10
24	9 Aug	0814Z	02°20'S	08°09'W	23.2	---	SSE	10
25	9 Aug	0930Z	02°00'S	09°22'W	23.1	36.29	SSE	10
26	9 Aug	1046Z	01°40'S	08°35'W	23.3	---	---	---
27	9 Aug	1200Z	01°20'S	08°48'W	23.4	36.09	SE	14
28	9 Aug	1313Z	01°00'S	09°01'W	23.1	---	SE	14
29	9 Aug	1432Z	00°40'S	09°15'W	23.5	36.34	SE	12
30	9 Aug	1553Z	00°20'S	09°31'W	24.2	---	SE	10
31	9 Aug	1711Z	00°00'	09°45'W	24.5	35.55	SE	10

XBT Section 59, 8-11 Aug 84
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
32	9 Aug	1830Z	00°20'N	09°56'W	24.8	----	SE	10
33	9 Aug	1948Z	00°40'N	10°14'W	25.2	35.74	SE	10
34	9 Aug	2107Z	01°00'N	10°28'W	26.0	----	SE	10
35	9 Aug	2225Z	01°20'N	10°42'W	26.2	35.72	SE	10
36	9 Aug	2345Z	01°40'N	10°57'W	26.3	----	SE	10
37	10 Aug	0100Z	02°00'N	11°13'W	----	35.59	SE	12
38	10 Aug	0218Z	02°20'N	11°27'W	26.5	----	SE	10
39	10 Aug	0337Z	02°40'N	11°41'W	26.5	35.69	SE	10
40	10 Aug	0452Z	03°00'N	11°55'W	26.7	----	SE	10
41	10 Aug	0615Z	03°20'N	(12°10'W)	----	35.71	SE	10
42	10 Aug	0732Z	03°40'N	12°24'W	26.8	----	SE	10
43	10 Aug	0851Z	04°00'N	12°38'W	26.8	35.83	SE	10
44	10 Aug	1011Z	04°20'N	12°52'W	26.8	----	SE	10
45	10 Aug	1130Z	04°40'N	13°07'W	27.0	35.21	SE	14
46	10 Aug	1244Z	05°00'N	13°19'W	26.8	----	SE	14
47	10 Aug	1404Z	05°20'N	13°33'W	27.1	35.41	SE	12
48	10 Aug	1522Z	05°40'N	13°47'W	27.1	----	SSE	12
49	10 Aug	1640Z	06°00'N	14°02'W	27.0	35.26	SSW	8
50	10 Aug	1805Z	06°20'N	14°17'W	27.0	----	SSW	8
51	10 Aug	1922Z	06°40'N	14°31'W	27.0	35.27	SSW	11
52	10 Aug	2046Z	07°00'N	14°47'W	27.0	----	SSW	13
53	10 Aug	2210Z	07°20'N	15°03'W	27.0	36.00	SSW	5
54	10 Aug	2330Z	07°40'N	15°18'W	27.3	----	SSW	8
55	11 Aug	0051Z	08°00'N	15°32'W	27.4	35.21	SSW	8
56	11 Aug	0216Z	08°20'N	15°45'W	27.5	----	SSW	6
57	11 Aug	0338Z	08°40'N	16°00'W	27.7	35.56	SSW	5
58	11 Aug	0454Z	09°00'N	16°06'W	27.9	----	SSW	5
59	11 Aug	0615Z	09°20'N	16°25'W	28.1	35.81	SSW	5
60	11 Aug	0738Z	09°40'N	16°45'W	28.1	----	SSW	5
61	11 Aug	0900Z	10°00'N	17°00'W	28.7	35.79	SSW	3

M.S. ELGAREN

8 - 11 AUG 1984

M. S. ELGAREN

8-11 AUGUST 1984

XBT Section 60, 13-17 Sep 84
M/S Elgaren, crossing equator at 07°41'W

275

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	13 Sep	0721Z	10°00'N	17°02'W	27.2	----	VAR	2
2	13 Sep	0901Z	09°40'N	16°43'W	----	35.06	WSW	5
3	13 Sep	1033Z	09°20'N	16°25'W	28.0	----	WNW	9
4	13 Sep	1216Z	09°00'N	16°17'W	28.0	34.42	WNW	6
5	13 Sep	1351Z	08°40'N	15°48'W	28.1	----	WNW	6
6	13 Sep	1529Z	08°20'N	15°28'W	28.2	35.69	WNW	6
7	13 Sep	1705Z	08°00'N	15°10'W	28.2	----	NW	8
8	13 Sep	1842Z	07°40'N	14°52'W	27.9	35.13	W	4
9	13 Sep	2019Z	07°20'N	14°33'W	27.7	----	WSW	12
10	13 Sep	2155Z	07°00'N	14°15'W	27.7	35.99	WSW	14
11	13 Sep	2331Z	06°40'N	13°55'W	27.6	----	SW	13
12	14 Sep	0110Z	06°20'N	13°37'W	27.5	35.69	SW	13
13	14 Sep	0248Z	06°00'N	13°18'W	27.3	----	SSW	18
14	14 Sep	0427Z	05°40'N	12°59'W	27.5	35.32	WSW	8
15	14 Sep	0603Z	05°20'N	12°41'W	27.3	----	WSW	6
16	14 Sep	0739Z	05°00'N	12°23'W	27.3	35.02	WSW	10
17	14 Sep	0916Z	04°40'N	12°04'W	27.2	----	SSE	22
18	14 Sep	1058Z	04°20'N	11°46'W	27.1	34.80	S	8
19	14 Sep	1243Z	04°00'N	11°26'W	26.8	----	SSW	9
20	14 Sep	1411Z	03°40'N	11°07'W	26.8	35.33	W	9
21	14 Sep	1547Z	03°20'N	10°49'W	26.9	----	S	10
22	14 Sep	1725Z	03°00'N	10°30'W	26.8	35.33	S	10
23	14 Sep	1903Z	02°40'N	10°12'W	26.8	----	S	12
24	14 Sep	2042Z	02°20'N	09°54'W	26.8	35.46	S	14
25	14 Sep	2222Z	02°00'N	09°36'W	26.5	----	S	14
26	15 Sep	0009Z	01°40'N	09°12'W	26.2	35.91	S	18
27	15 Sep	0152Z	01°20'N	08°53'W	26.0	----	S	18
28	15 Sep	0335Z	01°00'N	08°34'W	25.0	35.79	S	16
29	15 Sep	0514Z	00°40'N	08°16'W	26.5	----	S	12
30	15 Sep	(0654Z)	00°20'N	(08°00'W)	----	36.03	----	----
31	15 Sep	0833Z	00°00'	07°41'W	24.9	----	SSE	15

XBT Section 60, 13-17 Sep 84
 (Continued)

276

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	15 Sep	1036Z	00°20'S	07°18'W	24.5	36.01	SSE	15
33	15 Sep	1221Z	00°40'S	07°00'W	24.8	----	S	13
34	15 Sep	1403Z	01°00'S	06°43'W	25.0	36.39	S	13
35	15 Sep	1545Z	01°20'S	06°25'W	25.0	----	S	13
36	15 Sep	1726Z	01°40'S	06°07'W	25.0	36.32	S	10
37	15 Sep	1906Z	02°00'S	05°49'W	25.0	----	SE	12
38	15 Sep	2045Z	02°20'S	05°32'W	24.7	36.98	SSE	12
39	15 Sep	2221Z	02°40'S	05°17'W	24.7	----	SSE	12
40	15 Sep	2358Z	03°00'S	05°01'W	24.5	36.91	SE	12
41	16 Sep	0133Z	03°20'S	04°44'W	24.4	----	SE	12
42	16 Sep	0309Z	03°40'S	04°26'W	24.5	36.53	S	10
43	16 Sep	0447Z	04°00'S	04°08'W	24.6	----	SSE	12
44	16 Sep	0625Z	04°20'S	03°50'W	24.8	36.11	SSE	10
45	16 Sep	0803Z	04°40'S	03°32'W	24.0	----	SSE	14
46	16 Sep	0940Z	05°00'S	03°14'W	24.3	36.53	SE	16
47	16 Sep	1105Z	05°20'S	03°01'W	24.2	----	SE	16
48	16 Sep	1244Z	05°40'S	02°42'W	24.3	36.36	SE	13
49	16 Sep	1422Z	06°00'S	02°24'W	24.3	----	SE	20
50	16 Sep	1601Z	06°20'S	02°06'W	24.0	36.59	SE	20
51	16 Sep	1740Z	06°40'S	01°48'W	24.3	----	SE	20
52	16 Sep	1920Z	07°00'S	01°30'W	24.0	36.35	SE	20
53	16 Sep	2101Z	07°20'S	(01°10'W)	----	----	SE	20
54	16 Sep	2243Z	07°40'S	00°52'W	23.5	----	SE	21
55	17 Sep	0024Z	08°00'S	00°33'W	23.4	----	SE	18
56	17 Sep	0157Z	08°20'S	00°20'W	23.3	----	SE	18
57	17 Sep	0335Z	08°40'S	00°01'W	23.2	----	SE	14
58	17 Sep	0512Z	09°00'S	00°16'E	23.3	----	SE	14
59	17 Sep	0646Z	09°20'S	00°35'E	23.0	----	SE	14
60	17 Sep	0826Z	09°40'S	00°54'E	23.0	----	SE	19
61	17 Sep	1018Z	10°00'S	01°14'E	----	----	SE	15

M.S. ELGAREN

13-17 SEP 1984

13-17 SEPT 1984

M. S. ELGAREN

13-17 SEPT 1984

XBT Section 61, 19-23 Oct 84
M/S Elgaren, crossing equator at 09°53'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	19 Oct	0838Z	10°00'S	01°28'W	23.3	---	SE	15
2	19 Oct	1015Z	09°40'S	01°47'W	23.3	---	SE	15
3	19 Oct	1136Z	09°20'S	02°00'W	23.4	---	---	---
4	19 Oct	1348Z	09°00'S	02°25'W	---	---	---	---
5	19 Oct	1521Z	08°40'S	02°40'W	23.6	---	---	---
6	19 Oct	1654Z	08°20'S	02°57'W	23.6	---	SE	13
7	19 Oct	1819Z	08°00'S	03°20'W	23.8	---	SE	12
8	19 Oct	2024Z	07°40'S	03°40'W	23.3	---	SE	14
9	19 Oct	2156Z	07°20'S	03°56'W	24.0	---	SE	13
10	19 Oct	2327Z	07°00'S	04°11'W	24.2	---	SE	13
11	20 Oct	0046Z	06°40'S	04°26'W	24.2	---	SE	10
12	20 Oct	0214Z	06°20'S	04°41'W	24.7	---	SE	16
13	20 Oct	0347Z	06°00'S	04°57'W	24.7	---	SSE	16
14	20 Oct	0517Z	05°40'S	05°28'W	24.7	---	SSE	16
15	20 Oct	0647Z	05°20'S	05°30'W	24.7	---	---	280
16	20 Oct	0840Z	05°00'S	05°49'W	24.7	---	---	---
17	20 Oct	1010Z	04°40'S	06°05'W	24.7	---	---	---
18	20 Oct	1138Z	04°20'S	06°20'W	24.8	---	---	---
19	20 Oct	1307Z	04°00'S	06°37'W	25.0	---	SSE	18
20	20 Oct	1436Z	03°40'S	06°52'W	25.5	---	SSE	18
21	20 Oct	1605Z	03°20'S	07°00'W	25.6	---	SSE	16
22	20 Oct	1733Z	03°00'S	07°33'W	25.6	---	SSE	16
23	20 Oct	1859Z	02°40'S	07°38'W	25.5	---	SSE	14
24	20 Oct	2016Z	02°20'S	07°53'W	25.4	---	SSE	18
25	20 Oct	2146Z	02°00'S	08°09'W	25.4	---	SSE	17
26	20 Oct	2316Z	01°40'S	08°24'W	25.5	---	SSE	16
27	21 Oct	0051Z	01°20'S	08°39'W	25.5	---	S	16
28	21 Oct	0225Z	01°00'S	08°54'W	25.4	---	S	16
29	21 Oct	0400Z	00°40'S	09°10'W	25.5	---	S	16
30	21 Oct	0534Z	00°20'S	09°25'W	25.7	---	S	16
31	21 Oct	0708Z	00°00'	09°53'W	25.9	---	SE	14

XBT Section 61, 19-23 Oct 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	21 Oct	0814Z	00°20'N	10°09'W	25.8	---	SE	13
33	21 Oct	0945Z	00°40'N	10°24'W	25.8	---	SE	13
34	21 Oct	1115Z	01°00'N	10°26'W	25.8	---	SSE	15
35	21 Oct	1234Z	01°20'N	10°56'W	25.7	---	SSE	15
36	21 Oct	1350Z	01°40'N	11°09'W	26.4	---	SSE	15
37	21 Oct	1526Z	02°00'N	11°24'W	27.0	---	SSE	15
38	21 Oct	(1656Z)	02°20'N	11°39'W	27.4	---	S	12
39	21 Oct	1828Z	02°40'N	11°54'W	27.5	---	S	14
40	21 Oct	1954Z	03°00'N	12°10'W	27.8	---	S	12
41	21 Oct	2122Z	03°20'N	12°24'W	28.0	---	S	12
42	21 Oct	2250Z	03°40'N	12°41'W	27.8	---	SSE	15
43	22 Oct	0024Z	04°00'N	12°55'W	28.2	---	SSE	15
44	22 Oct	0154Z	04°20'N	13°10'W	28.2	---	---	---
45	22 Oct	0322Z	04°40'N	13°26'W	28.2	---	---	281
46	22 Oct	0459Z	05°00'N	13°41'W	28.2	---	S	8
47	22 Oct	0630Z	05°20'N	13°56'W	28.1	---	SW	6
48	22 Oct	(0800Z)	05°40'N	14°11'W	---	---	N	10
49	22 Oct	0930Z	06°00'N	14°27'W	---	---	NNW	3
50	22 Oct	1100Z	06°20'N	14°42'W	27.8	---	S	10
51	22 Oct	(1230Z)	06°40'N	14°57'W	28.4	---	S	10
52	22 Oct	1400Z	07°00'N	15°13'W	28.4	---	---	---
53	22 Oct	1500Z	07°20'N	15°20'W	28.6	---	---	---
54	22 Oct	1556Z	07°40'N	15°29'W	28.2	---	S	10
55	22 Oct	(1726Z)	08°00'N	15°45'W	---	---	CALM	---
56	22 Oct	(1856Z)	08°20'N	15°55'W	---	---	CALM	---
57	22 Oct	2023Z	08°40'N	16°06'W	28.9	---	CALM	---
58	22 Oct	2143Z	09°00'N	16°16'W	28.7	---	N	10
59	22 Oct	2310Z	09°20'N	16°25'W	29.0	---	N	10
60	22 Oct	(2352Z)	09°40'N	16°35'W	28.7	---	NE	10
61	23 Oct	0034Z	10°00'N	(16°45'W)	---	---	NE	10

XBT Section 62, 24-27 Nov 84
M/S Elgaren, crossing equator at 07°51'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	24 Nov	0743Z	10°00'N	17°02'W	29.1	----	N	5
2	24 Nov	0905Z	09°40'N	16°43'W	29.1	----	N	5
3	24 Nov	1028Z	09°20'N	16°24'W	29.0	----	NNW	5
4	24 Nov	1146Z	09°00'N	16°05'W	29.0	----	NW	5
5	24 Nov	1306Z	08°40'N	15°47'W	29.2	----	----	----
6	24 Nov	(1424Z)	08°20'N	15°28'W	29.2	----	----	----
7	24 Nov	1543Z	08°00'N	15°10'W	29.0	----	----	----
8	24 Nov	1705Z	07°40'N	14°47'W	29.2	----	NW	3
9	24 Nov	1820Z	07°20'N	14°29'W	29.5	----	----	----
10	24 Nov	1934Z	07°00'N	14°11'W	29.2	----	----	----
11	24 Nov	2055Z	06°40'N	13°52'W	29.2	----	----	----
12	24 Nov	2212Z	06°20'N	13°34'W	29.3	----	NW	5
13	24 Nov	2328Z	06°00'N	13°16'W	29.4	----	SE	2
14	25 Nov	0046Z	05°40'N	12°58'W	29.3	----	LVar	----
15	25 Nov	0240Z	05°20'N	12°40'W	29.2	----	LVar	----
16	25 Nov	0323Z	05°00'N	12°21'W	29.1	----	LVar	----
17	25 Nov	0434Z	04°40'N	12°03'W	28.9	----	LVar	----
18	25 Nov	0551Z	04°20'N	11°45'W	28.9	----	LVar	----
19	25 Nov	0712Z	04°00'N	11°26'W	28.7	----	SSW	2
20	25 Nov	0827Z	03°40'N	11°08'W	28.6	----	SSW	2
21	25 Nov	0945Z	03°20'N	10°50'W	28.7	----	SE	7
22	25 Nov	1103Z	03°00'N	10°32'W	28.5	----	SSE	7
23	25 Nov	1221Z	02°40'N	10°14'W	28.4	----	ESE	8
24	25 Nov	1340Z	02°20'N	09°56'W	28.2	----	SE	10
25	25 Nov	1500Z	02°00'N	09°38'W	28.1	----	SE	12
26	25 Nov	1621Z	01°40'N	09°19'W	28.3	----	SE	11
27	25 Nov	1740Z	01°20'N	09°02'W	28.2	----	SSE	10
28	25 Nov	1905Z	01°00'N	08°44'W	28.1	----	SSE	11
29	25 Nov	2026Z	00°40'N	08°22'W	27.7	----	SSE	12
30	25 Nov	2152Z	00°20'N	08°09'W	27.4	----	SSE	15
31	25 Nov	2314Z	00°00'	07°51'W	26.5	----	SSE	15

XBT Section 62, 24-27 Nov 84
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	26 Nov	0035Z	00°20'S	07°33'W	26.4	----	SSE	18
33	26 Nov	0157Z	00°40'S	07°15'W	26.1	----	SE	12
34	26 Nov	0319Z	01°00'S	06°57'W	26.0	----	SE	16
35	26 Nov	(0440Z)	01°20'S	(06°40'W)	----	----	SE	16
36	26 Nov	0604Z	01°40'S	06°23'W	26.2	----	SSE	15
37	26 Nov	0725Z	02°00'S	06°04'W	26.2	----	SSE	15
38	26 Nov	0844Z	02°20'S	05°47'W	26.4	----	SSE	15
39	26 Nov	1005Z	02°40'S	05°29'W	26.4	----	SSE	15
40	26 Nov	1127Z	03°00'S	05°11'W	26.3	----	SSE	18
41	26 Nov	1249Z	03°20'S	04°53'W	26.2	----	SSE	17
42	26 Nov	1411Z	03°40'S	04°35'W	25.9	----	SE	19
43	26 Nov	1534Z	04°00'S	04°17'W	26.1	----	SSE	18
44	26 Nov	1654Z	04°20'S	04°01'W	25.9	----	SSE	17
45	26 Nov	1815Z	04°40'S	03°42'W	25.3	----	SSE	17
46	26 Nov	1938Z	05°00'S	03°24'W	25.3	----	SSE	17
47	26 Nov	2100Z	05°20'S	03°06'W	25.2	----	SSE	17
48	26 Nov	2221Z	05°40'S	02°38'W	25.2	----	SSE	17
49	26 Nov	2343Z	06°00'S	02°29'W	25.4	----	SSE	17
50	27 Nov	0106Z	06°20'S	02°11'W	25.3	----	SSE	17
51	27 Nov	0229Z	06°40'S	01°53'W	25.0	----	SSE	16
52	27 Nov	0350Z	07°00'S	01°34'W	24.7	----	SE	19
53	27 Nov	0511Z	07°20'S	01°15'W	24.5	----	SSE	14
54	27 Nov	0639Z	07°40'S	00°57'W	24.7	----	SSE	15
55	27 Nov	0753Z	08°00'S	00°39'W	24.4	----	SSE	15
56	27 Nov	0920Z	08°20'S	00°20'W	24.3	----	SSE	15
57	27 Nov	1065Z	08°40'S	00°01'E	23.9	----	SSE	18
58	27 Nov	1211Z	09°00'S	00°17'E	23.9	----	SSE	18
59	27 Nov	1336Z	09°20'S	00°36'E	23.8	----	SSE	18
60	27 Nov	1502Z	09°40'S	00°54'E	24.0	----	SSE	18
61	27 Nov	1629Z	10°00'S	01°14'E	23.5	----	SSE	18

XBT Section 63, 17-21 Oct 84
Victory, crossing equator at 21°52'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	17 Oct	0915Z	10°00'S	12°05'W	23.7	---	SE	12
2	17 Oct	1055Z	09°40'S	12°25'W	23.9	---	SE	10
3	17 Oct	1231Z	09°20'S	12°44'W	24.0	---	SE	10
4	17 Oct	1408Z	09°00'S	13°04'W	24.3	---	SE	10
5	17 Oct	1548Z	08°40'S	13°22'W	24.7	---	SE	10
6	17 Oct	1721Z	08°20'S	13°41'W	24.5	---	SE	10
7	17 Oct	1900Z	08°00'S	14°00'W	24.2	---	SE	10
8	17 Oct	2045Z	07°40'S	14°21'W	24.7	---	SE	12
9	17 Oct	2221Z	07°20'S	14°39'W	24.7	---	SE	12
10	18 Oct	0000Z	07°00'S	14°58'W	24.7	---	SE	12
11	18 Oct	0142Z	06°40'S	15°18'W	24.7	---	SE	10
12	18 Oct	0319Z	06°20'S	15°37'W	25.1	---	SE	10
13	18 Oct	0459Z	06°00'S	15°57'W	25.1	---	SE	10
14	18 Oct	0633Z	05°40'S	16°15'W	25.0	---	SE	10
15	18 Oct	0821Z	05°20'S	16°36'W	25.0	---	SE	10
16	18 Oct	1000Z	05°00'S	16°55'W	25.1	---	SE	10
17	18 Oct	1151Z	04°40'S	17°17'W	25.2	---	SE	10
18	18 Oct	1323Z	04°20'S	17°36'W	25.4	---	SE	10
19	18 Oct	1503Z	04°00'S	17°56'W	25.4	---	SE	10
20	18 Oct	1641Z	03°40'S	18°15'W	25.6	---	SE	10
21	18 Oct	1830Z	03°20'S	18°37'W	25.5	---	ESE	10
22	18 Oct	2005Z	03°00'S	18°55'W	25.5	---	LA	---
23	18 Oct	2130Z	02°40'S	19°13'W	25.6	---	LA	---
24	18 Oct	2315Z	02°20'S	19°35'W	25.8	---	LA	---
25	19 Oct	0100Z	02°00'S	19°55'W	25.7	---	LA	---
26	19 Oct	0238Z	01°40'S	20°15'W	25.7	---	SE	8
27	19 Oct	0415Z	01°20'S	20°33'W	25.6	---	SE	8
28	19 Oct	0553Z	01°00'S	20°52'W	25.7	---	LA	---
29	19 Oct	0756Z	00°40'S	21°15'W	25.7	---	SE	10
30	19 Oct	0929Z	00°20'S	21°32'W	25.8	---	SE	10
31	19 Oct	1115Z	00°00'	21°52'W	26.0	---	SE	10

XBT Section 63, 17-21 Oct 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	19 Oct	1251Z	00°20'N	22°10'W	26.0	---	SE	10
33	19 Oct	1421Z	00°40'N	22°26'W	26.0	---	SE	10
34	19 Oct	1556Z	01°00'N	22°43'W	26.4	---	SE	10
35	19 Oct	1731Z	01°20'N	23°00'W	27.1	---	SE	10
36	19 Oct	1906Z	01°40'N	23°17'W	27.3	---	SE	10
37	19 Oct	2047Z	02°00'N	23°36'W	27.5	---	SE	10
38	19 Oct	2227Z	02°20'N	23°55'W	27.9	---	SE	10
39	20 Oct	0006Z	02°40'N	24°14'W	28.0	---	LA	---
40	20 Oct	0140Z	03°00'N	24°31'W	28.2	---	LA	---
41	20 Oct	(0320Z)	03°20'N	24°52'W	28.0	---	LA	---
42	20 Oct	0502Z	03°40'N	25°09'W	28.0	---	LA	---
43	20 Oct	0717Z	04°00'N	25°28'W	27.9	---	LA	---
44	20 Oct	0901Z	04°20'N	25°47'W	28.1	---	LA	---
45	20 Oct	1051Z	04°40'N	26°06'W	28.1	---	LA	---
46	20 Oct	1232Z	05°00'N	26°23'W	28.1	---	LA	---
47	20 Oct	1413Z	05°20'N	26°42'W	28.3	---	LA	---
48	20 Oct	1556Z	05°40'N	26°59'W	28.4	---	LA	---
49	20 Oct	1746Z	06°00'N	27°18'W	28.4	---	LA	---
50	20 Oct	1931Z	06°20'N	27°39'W	28.3	---	LA	---
51	20 Oct	2121Z	06°40'N	27°55'W	28.4	---	LA	---
52	20 Oct	(2305Z)	07°00'N	(28°13'W)	---	---	LA	---
53	21 Oct	0049Z	07°20'N	(28°34'W)	---	---	LA	---
54	21 Oct	0227Z	07°40'N	28°51'W	28.3	---	NE	8
55	21 Oct	0406Z	08°00'N	29°10'W	28.3	---	NE	8
56	21 Oct	0545Z	08°20'N	29°29'W	28.2	---	NE	8
57	21 Oct	0728Z	08°40'N	29°49'W	28.1	---	NE	6
58	21 Oct	0904Z	09°00'N	30°05'W	28.0	---	NE	10
59	21 Oct	1054Z	09°20'N	30°26'W	27.7	---	NE	10
60	21 Oct	1232Z	09°40'N	30°44'W	27.8	---	NE	10
61	21 Oct	(1410Z)	10°00'N	31°04'W	28.0	---	NE	10

XBT Section 64, 26 Nov-1 Dec 84
Victory, crossing equator at 34°26'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	26 Nov	2243Z	10°00'N	46°05'W	27.5	---	NExE	12
2	27 Nov	0023Z	09°40'N	45°44'W	27.2	---	NE	10
3	27 Nov	0222Z	09°20'N	45°18'W	27.2	---	NE	10
4	27 Nov	0412Z	09°00'N	44°43'W	27.2	---	---	---
5	27 Nov	0547Z	08°40'N	44°34'W	27.2	---	---	---
6	27 Nov	0732Z	08°20'N	44°12'W	27.2	---	---	---
7	27 Nov	0918Z	08°00'N	43°39'W	27.2	---	---	---
8	27 Nov	1107Z	07°40'N	43°25'W	27.2	---	ENE	10
9	27 Nov	1254Z	07°20'N	43°03'W	27.1	---	ENE	10
10	27 Nov	1450Z	07°00'N	42°41'W	27.2	---	ENE	10
11	27 Nov	1652Z	06°40'N	42°17'W	27.6	---	NE	10
12	27 Nov	1822Z	06°20'N	41°55'W	27.5	---	---	---
13	27 Nov	2001Z	06°00'N	41°30'W	27.5	---	---	---
14	27 Nov	2149Z	05°40'N	41°06'W	27.6	---	NE	12
15	27 Nov	2351Z	05°20'N	40°31'W	27.6	---	---	---
16	28 Nov	0146Z	05°00'N	40°03'W	27.6	---	NE	14
17	28 Nov	0316Z	04°40'N	39°43'W	27.5	---	E	17
18	28 Nov	0509Z	04°20'N	39°17'W	27.7	---	E	16
19	28 Nov	0655Z	04°00'N	38°54'W	27.7	---	E	12
20	28 Nov	0842Z	03°40'N	38°32'W	27.7	---	E	8
21	28 Nov	1027Z	03°20'N	38°12'W	27.4	---	ENE	14
22	28 Nov	1213Z	03°00'N	37°51'W	27.7	---	E	10
23	28 Nov	1403Z	02°40'N	37°28'W	27.7	---	ESE	10
24	28 Nov	1553Z	02°20'N	37°06'W	27.9	---	SExE	10
25	28 Nov	1743Z	02°00'N	36°42'W	27.7	---	ESE	10
26	28 Nov	1923Z	01°40'N	36°27'W	27.8	---	E	8
27	28 Nov	2115Z	01°20'N	36°04'W	27.8	---	E	8
28	28 Nov	2310Z	01°00'N	35°41'W	27.3	---	E	8
29	29 Nov	0104Z	00°40'N	35°16'W	27.6	---	ESE	10
30	29 Nov	0300Z	00°20'N	34°52'W	27.5	---	---	---
31	29 Nov	0500Z	00°00'	34°26'W	27.0	---	---	---

XBT Section 64, 26 Nov-1 Dec 84
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	29 Nov	0643Z	00°20'S	34°02'W	26.7	---	---	---
33	29 Nov	0834Z	00°40'S	33°38'W	26.7	---	---	---
34	29 Nov	(0930Z)	01°00'S	33°13'W	26.8	---	---	---
35	29 Nov	1029Z	01°20'S	32°46'W	27.0	---	---	---
36	29 Nov	1402Z	01°40'S	32°27'W	27.1	---	ESE	14
37	29 Nov	1551Z	02°00'S	32°04'W	27.0	---	SE	10
38	29 Nov	1741Z	02°20'S	31°41'W	27.1	---	SE	10
39	29 Nov	1931Z	02°40'S	(31°18'W)	27.1	---	SE	14
40	29 Nov	2120Z	03°00'S	30°56'W	27.0	---	SE	14
41	29 Nov	(2310Z)	03°20'S	(30°33'W)	---	---	SE	14
42	30 Nov	0105Z	03°40'S	30°10'W	26.9	---	SE	10
43	30 Nov	0252Z	04°00'S	29°48'W	26.8	---	SE	10
44	30 Nov	0443Z	04°20'S	29°24'W	26.7	---	SE	10
45	30 Nov	0635Z	04°40'S	29°01'W	26.7	---	SE	18
46	30 Nov	0831Z	05°00'S	(28°37'W)	---	---	SE	16
47	30 Nov	1022Z	05°20'S	28°13'W	26.7	---	SE	16
48	30 Nov	1214Z	05°40'S	27°49'W	26.5	---	SE	16
49	30 Nov	1403Z	06°00'S	27°25'W	26.6	---	SE	16
50	30 Nov	1559Z	06°20'S	27°02'W	26.6	---	SE	16
51	30 Nov	1746Z	06°40'S	26°40'W	26.4	---	SE	16
52	30 Nov	1940Z	07°00'S	26°16'W	26.2	---	SE	16
53	30 Nov	2134Z	07°20'S	25°52'W	26.2	---	SE	16
54	30 Nov	2328Z	07°40'S	25°27'W	26.4	---	SE	16
55	1 Dec	0125Z	08°00'S	25°01'W	26.3	---	SE	16
56	1 Dec	0323Z	08°20'S	24°34'W	26.4	---	SE	16
57	1 Dec	0516Z	08°40'S	24°08'W	26.3	---	SE	16
58	1 Dec	0708Z	09°00'S	23°42'W	26.2	---	SE	16
59	1 Dec	0900Z	09°20'S	23°18'W	26.2	---	SE	16
60	1 Dec	1050Z	09°40'S	22°50'W	26.0	---	SE	16
61	1 Dec	(1240Z)	10°00'S	22°27'W	25.8	---	SE	16

XBT Section 65, 28 Dec 84-1 Jan 85
M/S Elgaren, crossing equator at 09°43'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	28 Dec	1647Z	10°00'S	02°34'W	24.6	---	SSE	7
2	28 Dec	1819Z	09°40'S	02°49'W	24.5	---	SSE	7
3	28 Dec	(1950Z)	09°20'S	(03°03'W)	---	---	SE	7
4	28 Dec	2124Z	09°00'S	03°18'W	24.7	---	SE	7
5	28 Dec	2256Z	08°40'S	03°33'W	24.8	---	SE	7
6	29 Dec	0028Z	08°20'S	03°47'W	24.7	---	SE	7
7	29 Dec	0200Z	08°00'S	04°01'W	25.0	---	---	---
8	29 Dec	0330Z	07°40'S	04°15'W	25.2	---	---	---
9	29 Dec	0503Z	07°20'S	04°29'W	25.2	---	---	---
10	29 Dec	0632Z	07°00'S	04°45'W	25.5	---	---	---
11	29 Dec	0807Z	06°40'S	04°59'W	25.7	---	---	---
12	29 Dec	0944Z	06°20'S	05°14'W	25.9	---	---	---
13	29 Dec	1113Z	06°00'S	05°27'W	26.1	---	---	---
14	29 Dec	1244Z	05°40'S	05°41'W	26.2	---	---	---
15	29 Dec	1414Z	05°20'S	05°55'W	26.3	---	---	---
16	29 Dec	1538Z	05°00'S	06°10'W	26.0	---	E	10
17	29 Dec	1712Z	04°40'S	06°25'W	26.4	---	SSE	8
18	29 Dec	1839Z	04°20'S	06°39'W	26.5	---	SE	8
19	29 Dec	2013Z	04°00'S	(06°54'W)	26.5	---	SE	8
20	29 Dec	2143Z	03°40'S	07°03'W	26.5	---	SE	8
21	29 Dec	2313Z	03°20'S	07°20'W	26.7	---	SE	8
22	30 Dec	0038Z	03°00'S	(07°34'W)	---	---	SE	8
23	30 Dec	0207Z	02°40'S	07°48'W	26.7	---	SE	8
24	30 Dec	0335Z	02°20'S	08°02'W	26.6	---	---	---
25	30 Dec	0508Z	02°00'S	08°16'W	26.5	---	---	---
26	30 Dec	0539Z	01°40'S	08°30'W	26.2	---	SE	6
27	30 Dec	0810Z	01°20'S	08°44'W	26.2	---	SE	6
28	30 Dec	0941Z	01°00'S	08°58'W	26.4	---	---	---
29	30 Dec	1112Z	00°40'S	09°12'W	27.3	---	---	---
30	30 Dec	1248Z	00°20'S	09°29'W	27.7	---	---	---
31	30 Dec	1419Z	00°00'	09°43'W	28.3	---	---	---

XBT Section 65, 28 Dec 84-1 Jan 85
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	30 Dec	1547Z	00°20'N	09°55'W	28.3	---	---	---
33	30 Dec	1718Z	00°40'N	10°10'W	28.1	---	SSE	10
34	30 Dec	1847Z	01°00'N	10°24'W	28.0	---	S	6
35	30 Dec	2016Z	01°20'N	10°38'W	28.0	---	S	6
36	31 Dec	0132Z	01°40'N	10°54'W	28.0	---	S	6
37	31 Dec	0302Z	02°00'N	11°04'W	27.8	---	S	6
38	31 Dec	0431Z	02°20'N	11°21'W	27.3	---	S	8
39	31 Dec	0556Z	02°40'N	11°34'W	28.2	---	S	8
40	31 Dec	0724Z	03°00'N	11°47'W	28.1	---	ESE	3
41	31 Dec	0900Z	03°20'N	12°01'W	28.2	---	LV	3
42	31 Dec	1032Z	03°40'N	12°16'W	28.2	---	SW	2
43	31 Dec	1205Z	04°00'N	12°30'W	28.6	---	SW	2
44	31 Dec	1336Z	04°20'N	12°44'W	28.6	---	NE	3
45	31 Dec	1508Z	04°40'N	12°57'W	28.6	---	NE	5
46	31 Dec	1642Z	05°00'N	13°12'W	28.3	---	NE	5
47	31 Dec	1812Z	05°20'N	13°26'W	28.8	---	LV	---
48	31 Dec	1937Z	05°40'N	13°41'W	28.8	---	LV	---
49	31 Dec	2105Z	06°00'N	13°55'W	28.6	---	N	8
50	31 Dec	2234Z	06°20'N	14°09'W	28.5	---	NNW	8
51	1 Jan	0002Z	06°40'N	14°23'W	28.3	---	NNW	8
52	1 Jan	0131Z	07°00'N	14°37'W	28.4	---	NNW	8
53	1 Jan	0250Z	07°20'N	14°50'W	28.3	---	---	---
54	1 Jan	0418Z	07°40'N	15°05'W	28.2	---	---	---
55	1 Jan	0549Z	08°00'N	15°19'W	28.2	---	---	---
56	1 Jan	0722Z	08°20'N	15°34'W	27.9	---	NNW	10
57	1 Jan	0854Z	08°40'N	15°48'W	27.9	---	NNW	20
58	1 Jan	1027Z	09°00'N	16°02'W	26.9	---	NNW	20
59	1 Jan	1200Z	09°20'N	16°16'W	26.5	---	NNW	20
60	1 Jan	1344Z	09°40'N	16°34'W	25.0	---	NNW	20
61	1 Jan	1513Z	10°00'N	16°45'W	24.5	---	NNW	20

XBT Section 66, 4-9 Feb 85
M/S Elgaren, crossing equator at 07°58'W

297

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	4 Feb	2225Z	10°00'N	17°03'W	22.4	---	SSW	6
2	5 Feb	0011Z	09°40'N	16°45'W	22.8	---	SSW	6
3	5 Feb	0156Z	09°20'N	16°26'W	23.7	---	---	---
4	5 Feb	0338Z	09°00'N	16°07'W	25.1	---	---	---
5	5 Feb	0522Z	08°40'N	15°48'W	26.3	---	WSW	2
6	5 Feb	0709Z	08°20'N	15°29'W	26.7	---	WSW	2
7	5 Feb	0851Z	08°00'N	15°11'W	27.2	---	W	6
8	5 Feb	1034Z	07°40'N	14°52'W	27.6	---	W	6
9	5 Feb	1221Z	07°20'N	14°33'W	27.8	---	WNW	6
10	5 Feb	1357Z	07°00'N	14°15'W	28.2	---	WNW	6
11	5 Feb	1537Z	06°40'N	13°56'W	28.7	---	---	---
12	5 Feb	1715Z	06°20'N	13°38'W	28.7	---	NW	8
13	5 Feb	1853Z	06°00'N	13°19'W	28.5	---	NW	10
14	5 Feb	2033Z	05°40'N	13°01'W	28.7	---	NW	10
15	5 Feb	2214Z	05°20'N	12°43'W	28.5	---	---	---
16	5 Feb	2346Z	05°00'N	12°26'W	28.7	---	NW	10
17	6 Feb	0118Z	04°40'N	12°09'W	28.9	---	NW	6
18	6 Feb	0257Z	04°20'N	11°51'W	28.7	---	NW	6
19	6 Feb	0435Z	04°00'N	11°32'W	28.7	---	---	---
20	6 Feb	0614Z	03°40'N	11°14'W	28.8	---	NW	4
21	6 Feb	(0754Z)	03°20'N	10°56'W	29.0	---	NW	4
22	6 Feb	(0934Z)	03°00'N	(10°28'W)	---	---	S	8
23	6 Feb	(1115Z)	02°40'N	(10°20'W)	---	---	S	8
24	6 Feb	1255Z	02°20'N	10°01'W	28.3	---	S	8
25	6 Feb	1432Z	02°00'N	09°44'W	28.3	---	S	8
26	6 Feb	1618Z	01°40'N	09°26'W	28.6	---	LV	8
27	6 Feb	1803Z	01°20'N	09°08'W	28.6	---	SW	4
28	6 Feb	1939Z	01°00'N	08°51'W	28.5	---	SSW	10
29	6 Feb	2122Z	00°40'N	08°33'W	28.5	---	SSW	10
30	6 Feb	2314Z	00°20'N	08°16'W	28.3	---	S	10
31	7 Feb	0100Z	00°00'	07°58'W	28.5	---	---	---

XBT Section 66, 4-9 Feb 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	7 Feb	0241Z	00°20'S	07°40'W	28.5	---	---	---
33	7 Feb	0426Z	00°40'S	07°22'W	28.0	---	S	8
34	7 Feb	0613Z	01°00'S	07°03'W	27.5	---	LV	---
35	7 Feb	0756Z	01°20'S	06°45'W	27.3	---	S	4
36	7 Feb	0939Z	01°40'S	06°27'W	27.3	---	S	10
37	7 Feb	1141Z	02°00'S	06°04'W	27.6	---	S	8
38	7 Feb	1319Z	02°20'S	05°47'W	27.8	---	---	---
39	7 Feb	1509Z	02°40'S	05°28'W	28.0	---	---	---
40	7 Feb	1651Z	03°00'S	05°10'W	28.0	---	---	---
41	7 Feb	1833Z	03°20'S	04°52'W	27.5	---	S	10
42	7 Feb	(2017Z)	03°40'S	04°34'W	27.6	---	S	10
43	7 Feb	2200Z	04°00'S	04°15'W	27.6	---	S	10
44	7 Feb	2351Z	04°20'S	03°58'W	27.3	---	SE	4
45	8 Feb	0126Z	04°40'S	03°40'W	27.2	---	S	4
46	8 Feb	0304Z	05°00'S	03°23'W	27.2	---	C	---
47	8 Feb	0447Z	05°20'S	03°05'W	27.1	---	C	---
48	8 Feb	0632Z	05°40'S	02°47'W	27.0	---	C	---
49	8 Feb	0816Z	06°00'S	02°29'W	27.0	---	S	10
50	8 Feb	1014Z	06°20'S	02°07'W	27.1	---	S	8
51	8 Feb	(1200Z)	06°40'S	(01°48'W)	---	---	S	6
52	8 Feb	1343Z	07°00'S	01°30'W	27.2	---	S	6
53	8 Feb	1526Z	07°20'S	01°12'W	27.1	---	---	---
54	8 Feb	1712Z	07°40'S	00°53'W	27.2	---	SW	6
55	8 Feb	1856Z	08°00'S	00°34'W	27.0	---	SW	4
56	8 Feb	2039Z	08°20'S	00°16'W	27.1	---	SSE	8
57	8 Feb	2231Z	08°40'S	00°03'E	26.7	---	SSE	8
58	9 Feb	0018Z	09°00'S	00°22'E	26.7	---	S	10
59	9 Feb	0203Z	09°20'S	00°41'E	26.4	---	S	10
60	9 Feb	0348Z	09°40'S	01°00'E	26.3	---	S	10
61	9 Feb	0539Z	10°00'S	01°19'E	25.9	---	S	12

M. S. ELGAREN

4-9 FEBRUARY 1985

XBT Section 67, 30 Dec 84-4 Jan 85
Victory, crossing equator at 24°17'W

301

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	30 Dec	0505Z	10°00'S	12°11'W	24.5	36.97	NE	9
2	30 Dec	0702Z	09°40'S	12°34'W	24.5	---	E	13
3	30 Dec	0857Z	09°20'S	12°56'W	25.5	36.69	E	13
4	30 Dec	1048Z	09°00'S	13°19'W	25.0	---	E	13
5	30 Dec	1300Z	08°40'S	13°42'W	26.0	36.19	ExS	13
6	30 Dec	1513Z	08°20'S	14°03'W	27.0	---	E	13
7	30 Dec	1718Z	08°00'S	14°24'W	26.5	36.16	E	13
8	30 Dec	1445Z	07°40'S	14°45'W	26.5	---	ESE	9
9	30 Dec	2151Z	07°20'S	15°10'W	26.2	36.14	SE	9
10	31 Dec	0012Z	07°00'S	15°35'W	25.0	---	SE	9
11	31 Dec	0223Z	06°40'S	15°58'W	25.6	36.52	SE	13
12	31 Dec	0440Z	06°20'S	16°23'W	25.7	---	SE	13
13	31 Dec	0655Z	06°00'S	16°46'W	25.0	36.33	SE	9
14	31 Dec	0922Z	05°40'S	17°09'W	26.5	---	SE	13
15	31 Dec	1240Z	05°20'S	17°31'W	29.5	36.33	SE	13
16	31 Dec	1450Z	05°00'S	17°54'W	27.2	---	SE	13
17	31 Dec	1732Z	04°40'S	18°22'W	28.0	36.33	SExS	13
18	31 Dec	1935Z	04°20'S	18°46'W	27.0	---	SExS	9
19	31 Dec	2200Z	04°00'S	19°13'W	26.5	35.86	SExS	9
20	1 Jan	0009Z	03°40'S	19°35'W	26.5	---	SSE	9
21	1 Jan	0232Z	03°20'S	20°03'W	26.2	35.93	SSE	9
22	1 Jan	0455Z	03°00'S	20°28'W	25.5	---	SSE	9
23	1 Jan	0718Z	02°40'S	20°54'W	26.5	35.93	E	13
24	1 Jan	0923Z	02°20'S	21°15'W	27.5	---	SE	13
25	1 Jan	1140Z	02°00'S	21°38'W	29.5	36.17	SSE	9
26	1 Jan	1355Z	01°40'S	22°02'W	29.3	---	NNW	13
27	1 Jan	1629Z	01°20'S	22°27'W	26.4	36.02	NW	9
28	1 Jan	1919Z	01°00'S	22°53'W	27.0	---	LA	---
29	1 Jan	2213Z	00°40'S	23°20'W	25.7	35.45	LA	---
30	2 Jan	0050Z	00°20'S	23°42'W	26.5	---	LA	---

XBT Section 67, 30 Dec 84-4 Jan 85
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
31	2 Jan	0339Z	00°02'N	24°21'W	25.5	35.48	LA	---
32	2 Jan	0609Z	00°20'N	24°46'W	27.0	---	LA	---
33	2 Jan	0841Z	00°40'N	25°13'W	27.0	35.48	NE	5
34	2 Jan	1052Z	01°00'N	25°40'W	27.5	---	NE	5
35	2 Jan	1307Z	01°20'N	26°04'W	28.6	35.52	NE	5
36	2 Jan	1505Z	01°40'N	26°30'W	29.4	---	N	5
37	2 Jan	1724Z	02°00'N	27°02'W	27.8	35.54	N	5
38	2 Jan	1930Z	02°20'N	27°26'W	27.1	---	NNE	13
39	2 Jan	2169Z	02°40'N	27°52'W	26.6	35.60	LA	---
40	2 Jan	2354Z	03°00'N	28°16'W	26.5	---	NE	5
41	3 Jan	0158Z	03°20'N	28°36'W	26.5	35.67	NE	5
42	3 Jan	0412Z	03°40'N	28°59'W	26.5	---	NE	5
43	3 Jan	0620Z	04°00'N	29°21'W	26.5	35.82	NE	9
44	3 Jan	0849Z	04°20'N	29°47'W	26.6	---	ENE	13
45	3 Jan	1105Z	04°40'N	30°09'W	27.3	35.82	NEXE	9
46	3 Jan	1315Z	05°00'N	30°31'W	28.8	---	NEXE	13
47	3 Jan	1530Z	05°20'N	30°53'W	27.0	35.61	NE	13
48	3 Jan	1600Z	05°40'N	31°19'W	27.2	---	NE	13
49	3 Jan	2031Z	06°00'N	31°44'W	27.0	35.92	NNE	9
50	3 Jan	2303Z	06°20'N	32°08'W	27.0	---	NE	9
51	4 Jan	0107Z	06°40'N	32°29'W	27.0	35.83	NE	9
52	4 Jan	0334Z	07°00'N	32°54'W	26.5	---	E	9
53	4 Jan	0553Z	07°20'N	33°17'W	26.6	35.70	E	9
54	4 Jan	0806Z	07°40'N	33°38'W	26.8	---	E	9
55	4 Jan	1028Z	08°00'N	33°58'W	26.8	36.90	NE	13
56	4 Jan	1300Z	08°20'N	34°13'W	27.0	---	NE	13
57	4 Jan	1529Z	08°40'N	34°35'W	27.0	36.42	NE	13
58	4 Jan	1730Z	09°00'N	34°56'W	26.5	---	NE	13
59	4 Jan	1942Z	09°20'N	35°19'W	26.2	36.19	NE	13
60	4 Jan	2136Z	09°40'N	35°41'W	26.0	---	NE	13
61	4 Jan	2350Z	10°00'N	36°03'W	25.7	36.22	NE	13

VICTORY

30 DEC 1984 - 4 JAN 1985

VICTORY

30 DEC 1984 - 4 JAN 1985

XBT Section 68, 20-23 Feb 85
Victory, crossing equator at 33°56'W

305

Stat.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	20 Feb	0915Z	10°00'N	45°52'W	25.0	----	E	25
2	20 Feb	1045Z	09°40'N	45°30'W	25.0	36.40	E	25
3	20 Feb	1241Z	09°20'N	45°05'W	26.0	----	NE	31
4	20 Feb	1455Z	09°00'N	44°40'W	26.0	36.43	NE	25
5	20 Feb	1655Z	08°40'N	44°18'W	25.5	----	NE	25
6	20 Feb	1900Z	08°20'N	43°51'W	26.0	36.36	NE	25
7	20 Feb	2100Z	08°00'N	43°30'W	26.0	----	NE	25
8	20 Feb	2300Z	07°40'N	43°06'W	27.0	36.36	ENE	19
9	21 Feb	0100Z	07°20'N	42°42'W	27.0	----	ENE	19
10	21 Feb	0300Z	07°00'N	42°20'W	27.7	36.44	NE	19
11	21 Feb	0515Z	06°40'N	41°54'W	25.0	----	NE	19
12	21 Feb	0715Z	06°20'N	41°31'W	26.0	36.22	NE	19
13	21 Feb	0915Z	06°00'N	41°07'W	26.0	----	NE	19
14	21 Feb	1115Z	05°40'N	40°45'W	26.0	36.23	NEXE	25
15	21 Feb	1300Z	05°20'N	40°12'W	26.0	----	NEXE	25
16	21 Feb	1500Z	05°00'N	39°46'W	26.0	35.14	NEXE	25
17	21 Feb	1700Z	04°40'N	39°21'W	26.5	----	NE	19
18	21 Feb	1900Z	04°20'N	38°57'W	26.0	35.09	NE	19
19	21 Feb	2056Z	04°00'N	38°37'W	26.3	----	NE	19
20	21 Feb	2233Z	03°40'N	38°14'W	26.0	35.96	NE	19
21	22 Feb	0100Z	03°20'N	37°51'W	26.0	----	NE	19
22	22 Feb	0240Z	03°00'N	37°28'W	26.0	35.77	NE	19
23	22 Feb	0440Z	02°40'N	37°04'W	26.0	----	NE	19
24	22 Feb	0637Z	02°20'N	36°41'W	26.0	35.74	NE	13
25	22 Feb	1020Z	01°40'N	35°52'W	27.0	----	NEXE	19
26	22 Feb	1155Z	01°20'N	35°32'W	27.5	35.94	NE	19
27	22 Feb	(1425Z)	01°00'N	35°05'W	26.8	----	NE	13
28	22 Feb	(1655Z)	01°40'N	34°42'W	27.2	36.05	NE	13
29	22 Feb	1925Z	00°20'N	34°19'W	27.0	----	NE	13
30	22 Feb	2112Z	00°00'	33°56'W	27.0	36.24	NE	13
31	22 Feb	2310Z	00°20'S	33°33'W	28.0	----	NNE	13
32	23 Feb	0105Z	00°40'S	33°10'W	28.0	36.21	NNE	13

20-23 FEBRUARY 1985

VICTORY

VICTORY

20-23 FEB 1985

XBT Section 69, 13-16 Mar 85
Elgaren, crossing equator at 09°48'W

309

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	13 Mar	0146Z	10°00'S	02°44'W	27.0	36.71	SE	5
2	13 Mar	0305Z	09°40'S	02°58'W	26.8	---	SE	3
3	13 Mar	0430Z	09°20'S	03°13'W	27.2	36.55	SE	5
4	13 Mar	0546Z	09°00'S	03°27'W	27.4	---	S	5
5	13 Mar	0707Z	08°40'S	03°41'W	27.5	36.55	SSE	8
6	13 Mar	0826Z	08°20'S	03°57'W	27.7	---	SSE	8
7	13 Mar	0944Z	08°00'S	04°11'W	27.8	36.42	SSE	8
8	13 Mar	1102Z	07°40'S	04°25'W	28.1	---	SSE	6
9	13 Mar	1218Z	07°20'S	04°40'W	28.3	36.33	SE	5
10	13 Mar	1332Z	07°00'S	04°53'W	28.1	---	SE	9
11	13 Mar	1448Z	06°40'S	05°07'W	28.5	36.23	SE	9
12	13 Mar	1606Z	06°20'S	05°21'W	28.2	---	SE	9
13	13 Mar	1724Z	06°00'S	05°35'W	28.6	36.14	SE	6
14	13 Mar	1834Z	05°40'S	05°41'W	28.2	---	SE	6
15	13 Mar	2005Z	05°20'S	06°05'W	28.2	36.18	ESE	8
16	13 Mar	2123Z	05°00'S	06°19'W	28.3	---	SE	8
17	13 Mar	2242Z	04°40'S	06°34'W	28.0	35.94	SSE	9
18	14 Mar	0001Z	04°20'S	06°47'W	28.2	---	SSE	9
19	14 Mar	0120Z	04°00'S	07°01'W	28.2	35.35	SSE	9
20	14 Mar	0234Z	03°40'S	07°15'W	28.1	---	SSE	9
21	14 Mar	0357Z	03°20'S	07°30'W	28.0	35.50	SSE	9
22	14 Mar	0510Z	03°00'S	07°43'W	27.9	---	SSE	9
23	14 Mar	0629Z	02°40'S	07°57'W	27.7	35.35	SE	5
24	14 Mar	0748Z	02°20'S	08°11'W	27.8	---	SE	9
25	14 Mar	0902Z	02°00'S	08°25'W	28.1	35.62	SSE	8
26	14 Mar	1020Z	01°40'S	08°40'W	28.2	---	SSE	8
27	14 Mar	1137Z	01°20'S	08°54'W	28.2	35.54	S	5
28	14 Mar	1254Z	01°00'S	09°07'W	28.0	---	S	5
29	14 Mar	1420Z	00°40'S	09°23'W	28.2	35.04	S	5
30	14 Mar	1527Z	00°20'S	09°34'W	28.3	---	S	5
31	14 Mar	1645Z	00°00'	09°48'W	28.6	35.11	S	6

XBT Section 69, 13-16 Mar 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	14 Mar	1804Z	00°20'N	10°02'W	28.2	----	S	6
33	14 Mar	1923Z	00°40'N	10°15'W	28.2	34.97	S	6
34	14 Mar	2023Z	01°00'N	10°30'W	28.3	----	S	14
35	14 Mar	2151Z	01°20'N	10°44'W	28.4	34.61	S	12
36	14 Mar	2315Z	01°40'N	10°52'W	28.5	----	S	10
37	15 Mar	0035Z	02°00'N	11°12'W	28.5	34.74	S	13
38	15 Mar	0154Z	02°20'N	11°26'W	28.7	----	S	13
39	15 Mar	0312Z	02°40'N	11°39'W	28.5	34.85	S	13
40	15 Mar	0434Z	03°00'N	11°53'W	28.2	----	S	9
41	15 Mar	0554Z	03°20'N	12°07'W	28.4	34.50	S	9
42	15 Mar	0713Z	03°40'N	12°21'W	28.6	----	S	9
43	15 Mar	0841Z	04°00'N	12°33'W	28.6	34.80	S	9
44	15 Mar	0958Z	04°20'N	12°44'W	28.2	----	E	16
45	15 Mar	1125Z	04°40'N	12°59'W	28.2	35.09	SSE	28
46	15 Mar	1236Z	05°00'N	13°12'W	28.3	----	ESE	28
47	15 Mar	1357Z	05°20'N	13°26'W	28.5	34.97	ESE	24
48	15 Mar	1516Z	05°40'N	13°41'W	28.4	----	ESE	24
49	15 Mar	1638Z	06°00'N	13°55'W	28.4	34.92	S	15
50	15 Mar	1756Z	06°20'N	14°08'W	28.4	----	S	15
51	15 Mar	1916Z	06°40'N	14°22'W	28.2	34.95	S	12
52	15 Mar	2040Z	07°00'N	14°34'W	27.2	----	S	12
53	15 Mar	2204Z	07°20'N	14°50'W	27.0	34.84	S	6
54	15 Mar	2329Z	07°40'N	15°04'W	26.8	----	WSW	8
55	16 Mar	0053Z	08°00'N	15°19'W	26.3	34.85	WSW	13
56	16 Mar	0215Z	08°20'N	15°34'W	26.0	----	NW	18
57	16 Mar	0339Z	08°40'N	15°48'W	25.7	35.34	NW	24
58	16 Mar	0501Z	09°00'N	16°02'W	25.4	----	NNW	24
59	16 Mar	0624Z	09°20'N	16°16'W	25.3	35.55	NNW	20
60	16 Mar	0746Z	09°40'N	16°30'W	23.5	----	NNW	18
61	16 Mar	0910Z	10°00'N	16°45'W	21.6	35.42	NNW	20

13-16 MARCH 1985

M. S. ELGAREN

M. S. ELGAREN

13-16 MARCH 1985

XBT Section 70, 17-20 Apr 85
Elgaren, crossing equator at 10°02'W

313

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	17 Apr	0124Z	10°00'N	17°11'W	24.8	35.38	NNW	13
2	17 Apr	0243Z	09°40'N	16°56'W	24.6	----	NNW	13
3	17 Apr	0403Z	09°20'N	16°42'W	24.7	35.45	NNW	13
4	17 Apr	0523Z	09°00'N	16°27'W	24.8	----	NNW	13
5	17 Apr	0644Z	08°40'N	16°14'W	25.2	35.62	NNW	9
6	17 Apr	0802Z	08°20'N	15°59'W	25.6	----	NNW	9
7	17 Apr	0924Z	08°00'N	15°44'W	26.1	35.42	NNW	9
8	17 Apr	1043Z	07°40'N	15°28'W	26.8	----	N	5
9	17 Apr	1202Z	07°20'N	15°14'W	27.1	35.33	N	3
10	17 Apr	1318Z	07°00'N	15°00'W	27.8	----	N	3
11	17 Apr	1436Z	06°40'N	14°46'W	27.3	35.33	N	2
12	17 Apr	1555Z	06°20'N	14°31'W	28.5	----	N	2
13	18 Apr	1206Z	01°40'N	11°11'W	29.4	35.05	SSE	7
14	18 Apr	1327Z	01°20'N	10°57'W	29.6	----	SSE	6
15	18 Apr	1448Z	01°00'N	10°43'W	29.6	34.80	SSE	5
16	18 Apr	1608Z	00°40'N	10°30'W	29.5	----	SSE	2
17	18 Apr	1730Z	00°20'N	10°17'W	29.2	35.08	SSE	2
18	18 Apr	1854Z	00°00'	10°02'W	28.8	----	SSE	2
19	18 Apr	2017Z	00°20'S	09°47'W	28.4	35.13	SE	2
20	18 Apr	2140Z	00°40'S	09°33'W	27.8	----	SE	15
21	18 Apr	2302Z	01°00'S	09°19'W	28.2	35.00	SSE	14
22	19 Apr	0024Z	01°20'S	09°04'W	27.6	----	SSE	14
23	19 Apr	0142Z	01°40'S	08°51'W	28.0	34.66	SSE	15
24	19 Apr	0307Z	02°00'S	08°36'W	28.0	----	SSE	15
25	19 Apr	0429Z	02°20'S	08°22'W	28.2	35.14	SSE	15
26	19 Apr	0544Z	02°40'S	08°08'W	28.3	----	SSE	15
27	19 Apr	0704Z	03°00'S	07°53'W	27.5	34.96	SSE	15
28	19 Apr	0825Z	03°20'S	07°39'W	28.4	----	SSE	15
29	19 Apr	0947Z	03°40'S	07°23'W	28.3	34.60	SSE	15
30	19 Apr	1109Z	04°00'S	07°10'W	28.6	----	SE	18
31	19 Apr	1230Z	04°20'S	06°55'W	28.5	34.80	SE	18

XBT Section 70, 17-20 Apr 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	19 Apr	1353Z	04°40'S	06°41'W	28.5	----	SE	18
33	19 Apr	1517Z	05°00'S	06°27'W	28.0	35.13	SE	20
34	19 Apr	1641Z	05°20'S	06°13'W	27.6	----	SE	24
35	19 Apr	1808Z	05°40'S	06°00'W	27.6	35.63	SE	13
36	19 Apr	1935Z	06°00'S	05°45'W	27.7	----	SE	9
37	19 Apr	2101Z	06°20'S	05°31'W	27.6	35.59	S	20
38	19 Apr	2349Z	07°00'S	05°03'W	27.5	----	SE	20
39	20 Apr	0117Z	07°20'S	04°48'W	26.8	35.37	SE	20
40	20 Apr	0244Z	07°40'S	04°33'W	27.3	----	SE	20
41	20 Apr	0413Z	08°00'S	04°18'W	27.0	35.30	SE	20
42	20 Apr	0535Z	08°20'S	04°04'W	26.4	----	SE	9
43	20 Apr	0700Z	08°40'S	03°49'W	26.7	35.20	ESE	13
44	20 Apr	0826Z	09°00'S	03°35'W	26.8	----	ESE	15
45	20 Apr	0952Z	09°20'S	03°20'W	26.9	36.04	ESE	15
46	20 Apr	1118Z	09°40'S	03°05'W	26.8	----	ESE	18
47	20 Apr	1239Z	10°00'S	02°51'W	26.3	36.07	ESE	18

17-20 APRIL 1985

SURFACE σ_t

XBT Section 71, 1-6 Jun 85
Victory, crossing equator at 20°51'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	1 Jun	1915Z	10°00'S	11°21'W	25.0	---	ESE	13
2	1 Jun	2058Z	09°40'S	11°40'W	26.0	---	ESE	13
3	1 Jun	2256Z	09°20'S	12°00'W	25.8	---	ESE	9
4	2 Jun	0040Z	09°00'S	12°18'W	26.0	---	ESE	13
5	2 Jun	0230Z	08°40'S	12°38'W	26.5	---	ESE	13
6	2 Jun	0423Z	08°20'S	12°59'W	26.3	---	ESE	9
7	2 Jun	0615Z	08°00'S	13°19'W	26.6	---	SE	9
8	2 Jun	0802Z	07°40'S	13°40'W	26.2	---	SE	13
9	2 Jun	0952Z	07°20'S	14°00'W	27.5	---	SE	13
10	2 Jun	1158Z	07°00'S	14°19'W	27.3	---	SE	13
11	2 Jun	1329Z	06°40'S	14°38'W	27.4	---	SE	13
12	2 Jun	1520Z	06°20'S	14°59'W	27.6	---	SE	13
13	2 Jun	1707Z	06°00'S	15°19'W	27.5	---	SE	13
14	2 Jun	1538Z	05°40'S	15°38'W	26.7	---	SE	9
15	2 Jun	2054Z	05°20'S	15°59'W	26.8	---	SE	9
16	2 Jun	2235Z	05°00'S	16°20'W	27.0	---	SE	9
17	3 Jun	0025Z	04°40'S	16°39'W	26.8	---	SE	9
18	3 Jun	0202Z	04°20'S	16°58'W	26.5	---	SE	9
19	3 Jun	0343Z	04°00'S	17°16'W	26.1	---	SE	9
20	3 Jun	0529Z	03°40'S	17°37'W	26.2	---	SE	9
21	3 Jun	0712Z	03°20'S	17°55'W	26.0	---	SE	9
22	3 Jun	0854Z	03°00'S	18°13'W	26.2	---	SE	9
23	3 Jun	1040Z	02°40'S	18°31'W	28.0	---	SE	9
24	3 Jun	1220Z	02°20'S	18°48'W	28.0	---	SE	9
25	3 Jun	1355Z	02°00'S	19°04'W	26.3	---	ESE	9
26	3 Jun	1538Z	01°40'S	19°20'W	26.0	---	E	13
27	3 Jun	1723Z	01°20'S	19°30'W	25.8	---	---	---
28	3 Jun	1859Z	01°00'S	19°55'W	25.6	---	SE	9
29	3 Jun	2041Z	00°40'S	20°13'W	25.4	---	SE	9
30	3 Jun	2302Z	00°20'S	20°33'W	25.5	---	E	9
31	4 Jun	0110Z	00°00'	20°51'W	25.3	---	E	9

XBT Section 71, 1-6 Jun 85
(Continued)

319

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	4 Jun	0307Z	00°20'N	21°07'W	25.3	---	ExS	13
33	4 Jun	0521Z	00°40'N	21°24'W	25.8	---	ExS	13
34	4 Jun	0712Z	01°00'N	21°48'W	26.0	---	ExS	9
35	4 Jun	0912Z	01°20'N	22°07'W	26.8	---	E	9
36	4 Jun	1055Z	01°40'N	22°26'W	29.2	---	E	9
37	4 Jun	1235Z	02°00'N	22°45'W	28.0	---	ExS	13
38	4 Jun	1418Z	02°20'N	23°02'W	26.9	---	SE	13
39	4 Jun	1605Z	02°40'N	23°21'W	27.3	---	SE	13
40	4 Jun	1812Z	03°00'N	23°44'W	27.1	---	SE	13
41	4 Jun	1946Z	03°20'N	23°57'W	27.4	---	SE	9
42	4 Jun	2140Z	03°40'N	24°15'W	27.8	---	SE	9
43	4 Jun	2335Z	04°00'N	24°32'W	27.5	---	SE	9
44	5 Jun	0125Z	04°20'N	24°50'W	27.6	---	SE	9
45	5 Jun	0325Z	04°40'N	25°08'W	27.6	---	SE	9
46	5 Jun	0536Z	05°00'N	25°23'W	25.3	---	ENE	9
47	5 Jun	0757Z	05°20'N	25°45'W	23.5	---	ENE	9
48	5 Jun	1017Z	05°40'N	26°07'W	27.3	---	SSE	9
49	5 Jun	1227Z	06°00'N	26°27'W	28.0	---	SSE	9
50	5 Jun	1435Z	06°20'N	26°48'W	27.3	---	NE	5
51	5 Jun	1635Z	06°40'N	27°06'W	27.6	---	W	9
52	5 Jun	1848Z	07°00'N	27°27'W	27.0	---	E	7
53	5 Jun	2048Z	07°20'N	27°46'W	25.4	---	E	7
54	5 Jun	2305Z	07°40'N	28°09'W	25.8	---	E	9
55	6 Jun	0100Z	08°00'N	28°27'W	25.7	---	NE	9
56	6 Jun	0320Z	08°20'N	28°49'W	25.8	---	N	5
57	6 Jun	0532Z	08°40'N	29°10'W	26.0	---	W	5
58	6 Jun	0743Z	09°00'N	29°29'W	25.9	---	W	5
59	6 Jun	0945Z	09°20'N	29°49'W	25.5	---	W	5
60	6 Jun	1157Z	09°40'N	30°09'W	26.7	---	NxE	9
61	6 Jun	1405Z	10°00'N	30°29'W	25.3	---	NE	9

XBT Section 72, 23-27 Jul 85
Victory, crossing equator at 34°08'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	23 Jul	0250Z	10°00'N	46°21'W	27.5	---	WNW	5
2	23 Jul	0434Z	09°40'N	45°56'W	27.4	---	SW	9
3	23 Jul	0615Z	09°20'N	45°31'W	27.2	---	SW	9
4	23 Jul	0757Z	09°00'N	45°07'W	26.1	---	SW	9
5	23 Jul	0939Z	08°40'N	44°43'W	25.3	---	SSW	9
6	23 Jul	1128Z	08°20'N	44°17'W	27.2	---	WxS	5
7	23 Jul	1315Z	08°00'N	43°51'W	28.0	---	WxN	5
8	23 Jul	1510Z	07°40'N	43°27'W	27.7	---	W	5
9	23 Jul	1650Z	07°20'N	43°05'W	27.8	---	W	5
10	23 Jul	1840Z	07°00'N	42°40'W	27.9	---	W	5
11	23 Jul	2027Z	06°40'N	42°16'W	28.0	---	W	5
12	23 Jul	2211Z	06°20'N	41°53'W	26.2	---	NW	5
13	24 Jul	0005Z	06°00'N	41°28'W	27.8	---	NW	5
14	24 Jul	0143Z	05°40'N	41°07'W	27.6	---	LT AIRS	---
15	24 Jul	0335Z	05°20'N	40°41'W	27.2	---	NxW	5
16	24 Jul	0525Z	05°00'N	40°16'W	27.2	---	LT AIRS	---
17	24 Jul	0705Z	04°40'N	39°52'W	25.8	---	E	5
18	24 Jul	0901Z	04°20'N	39°26'W	27.4	---	E	5
19	24 Jul	1048Z	04°00'N	39°02'W	27.5	---	LT AIRS	---
20	24 Jul	1244Z	03°40'N	38°30'W	28.5	---	LT AIRS	---
21	24 Jul	1452Z	03°20'N	38°12'W	29.5	---	LT AIRS	---
22	24 Jul	1652Z	03°00'N	37°48'W	28.3	---	NNE	5
23	24 Jul	1923Z	02°40'N	37°18'W	28.7	---	LT AIRS	---
24	24 Jul	2112Z	02°20'N	36°59'W	28.1	---	LT AIRS	---
25	24 Jul	2315Z	02°00'N	36°35'W	27.7	---	LT AIRS	---
26	25 Jul	0103Z	01°40'N	36°12'W	27.6	---	LT AIRS	---
27	25 Jul	0255Z	01°20'N	35°48'W	27.5	---	LT AIRS	---
28	25 Jul	0450Z	01°00'N	35°23'W	27.3	---	SSE	5
29	25 Jul	0640Z	00°40'N	35°00'W	27.4	---	SSE	9
30	25 Jul	0838Z	00°20'N	34°28'W	26.6	---	SE	9
31	25 Jul	1020Z	00°00'	34°08'W	27.5	---	ESE	9
						---	NE	9

XBT Section 72, 23-27 Jul 85
 (Continued)

322

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	25 Jul	1220Z	00°20'S	33°40'W	28.5	---	NE	9
33	25 Jul	1405Z	00°40'S	33°31'W	27.4	---	NE	9
34	25 Jul	1610Z	01°00'S	33°06'W	27.4	---	NE	9
35	25 Jul	1813Z	01°20'S	32°39'W	26.9	---	NE	9
36	25 Jul	2009Z	01°40'S	32°15'W	26.5	---	NE	9
37	25 Jul	2205Z	02°00'S	31°53'W	26.3	---	ENE	9
38	25 Jul	2358Z	02°20'S	31°29'W	26.5	---	NE	9
39	26 Jul	0200Z	02°40'S	31°05'W	25.5	---	ENE	9
40	26 Jul	0400Z	03°00'S	30°39'W	26.0	---	NE	9
41	26 Jul	0607Z	03°20'S	30°13'W	25.5	---	NE	9
42	26 Jul	0811Z	03°40'S	29°48'W	26.3	---	NE	9
43	26 Jul	1000Z	04°00'S	29°27'W	26.5	---	E	13
44	26 Jul	1200Z	04°20'S	29°02'W	26.7	---	E	13
45	26 Jul	1425Z	04°40'S	28°34'W	26.8	---	ENE	13
46	26 Jul	1620Z	05°00'S	28°10'W	27.0	---	E	9
47	26 Jul	1813Z	05°20'S	27°48'W	27.3	---	E	9
48	26 Jul	1958Z	05°40'S	27°27'W	26.1	---	E	9
49	26 Jul	2155Z	06°00'S	27°05'W	26.2	---	E	9
50	26 Jul	2352Z	06°20'S	26°40'W	25.8	---	ENE	9
51	27 Jul	0149Z	06°40'S	26°17'W	25.8	---	ENE	9
52	27 Jul	0350Z	07°00'S	25°52'W	26.5	---	E	9
53	27 Jul	0545Z	07°20'S	25°26'W	25.5	---	ENE	9
54	27 Jul	0743Z	07°40'S	25°02'W	25.7	---	ESE	9
55	27 Jul	0930Z	08°00'S	24°41'W	25.8	---	SExE	13
56	27 Jul	1135Z	08°20'S	24°15'W	26.5	---	ESE	13
57	27 Jul	1325Z	08°40'S	23°52'W	27.0	---	ESE	13
58	27 Jul	1525Z	09°00'S	23°27'W	26.4	---	ESE	13
59	27 Jul	1740Z	09°20'S	22°59'W	26.3	---	ESE	13
60	27 Jul	1931Z	09°40'S	22°37'W	26.0	---	ESE	13
61	27 Jul	2136Z	10°00'S	22°13'W	25.2	---	ESE	13

XBT Section 73, 25-29 May 85
M.S. Elgaren, crossing equator at 09°41'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	25 May	1230Z	10°00'S	02°35'W	25.7	36.72	SE	9
2	25 May	1355Z	09°40'S	02°49'W	26.1	---	SE	9
3	25 May	1520Z	09°20'S	03°04'W	26.7	36.76	SE	9
4	25 May	1643Z	09°00'S	03°18'W	26.9	---	SE	9
5	25 May	1809Z	08°40'S	03°33'W	26.8	36.49	SE	9
6	25 May	1934Z	08°20'S	03°47'W	27.0	---	SE	---
7	25 May	2102Z	08°00'S	04°01'W	27.1	36.46	SE	9
8	25 May	2229Z	07°40'S	04°16'W	27.2	---	SE	9
9	25 May	2355Z	07°20'S	04°30'W	26.8	35.94	SE	9
10	26 May	0120Z	07°00'S	04°44'W	26.8	---	SE	9
11	26 May	0242Z	06°40'S	04°58'W	27.2	35.76	SE	9
12	26 May	0410Z	06°20'S	05°13'W	27.4	---	SE	5
13	26 May	0534Z	06°00'S	05°26'W	27.4	35.83	SE	5
14	26 May	0600Z	05°40'S	05°42'W	27.4	---	SE	9
15	26 May	0726Z	05°20'S	05°55'W	27.6	35.54	SE	15
16	26 May	0948Z	05°00'S	06°10'W	27.6	---	SSE	15
17	26 May	1111Z	04°40'S	06°24'W	27.5	35.53	SSE	15
18	26 May	1243Z	04°20'S	06°38'W	27.5	---	SSE	15
19	26 May	1400Z	04°00'S	06°52'W	27.3	35.88	SSE	15
20	26 May	1520Z	03°40'S	07°05'W	27.4	---	SSE	15
21	26 May	1640Z	03°20'S	07°21'W	27.4	36.14	SSE	13
22	26 May	1801Z	03°00'S	07°34'W	27.2	---	SSE	9
23	26 May	1923Z	02°40'S	07°48'W	27.2	---	SSE	5
24	26 May	2046Z	02°20'S	08°01'W	26.9	---	SSE	9
25	26 May	2204Z	02°00'S	08°16'W	27.0	36.34	SSE	9
26	26 May	2323Z	01°40'S	08°30'W	27.0	---	SE	15
27	27 May	0047Z	01°20'S	08°45'W	27.0	36.34	SE	15
28	27 May	0205Z	01°00'S	08°57'W	26.7	---	SE	15
29	27 May	0323Z	00°40'S	09°13'W	26.5	36.39	SE	15
30	27 May	0443Z	00°20'S	09°26'W	26.5	---	SE	9
31	27 May	0600Z	00°00'	09°41'W	26.7	36.38	SE	9

XBT Section 73, 25-29 May 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(‰)	Wind Dir. (from)	Wind Spd. (knots)
32	27 May	0720Z	00°20'N	09°54'W	27.7	---	SE	9
33	27 May	0841Z	00°40'N	10°08'W	28.6	36.29	SE	13
34	27 May	0959Z	01°00'N	10°22'W	28.7	---	SE	13
35	27 May	1116Z	01°20'N	10°35'W	28.5	36.27	SSE	15
36	27 May	1235Z	01°40'N	10°49'W	28.8	---	SSE	15
37	27 May	1358Z	02°00'N	11°04'W	28.8	36.37	SSE	9
38	27 May	1512Z	02°20'N	11°20'W	28.7	---	SSE	9
39	27 May	1630Z	02°40'N	11°33'W	28.7	36.06	SSE	9
40	27 May	1747Z	03°00'N	11°46'W	28.7	---	SSE	13
41	27 May	1910Z	03°20'N	12°00'W	28.7	35.76	SSE	13
42	27 May	2032Z	03°40'N	12°12'W	28.8	---	SSE	13
43	27 May	2158Z	04°00'N	12°27'W	29.2	35.80	SSE	13
44	27 May	2323Z	04°20'N	12°41'W	28.9	---	SSE	13
45	28 May	0050Z	04°40'N	12°56'W	28.7	35.77	SSE	13
46	28 May	0217Z	05°00'N	13°11'W	29.0	---	SSE	13
47	28 May	0345Z	05°20'N	13°24'W	28.7	35.22	SE	13
48	28 May	0516Z	05°40'N	13°40'W	28.6	---	SE	13
49	28 May	0642Z	06°00'N	13°54'W	28.4	35.32	0	0
50	28 May	0807Z	06°20'N	14°07'W	28.7	---	0	0
51	28 May	0932Z	06°40'N	14°21'W	28.7	35.61	NNW	5
52	28 May	1057Z	07°00'N	14°35'W	28.9	---	NW	10
53	28 May	1222Z	07°20'N	14°49'W	28.5	36.09	NW	10
54	28 May	1344Z	07°40'N	15°04'W	28.6	---	NW	10
55	28 May	1518Z	08°00'N	15°18'W	28.4	36.27	NNW	9
56	28 May	1645Z	08°20'N	15°33'W	29.0	---	NNW	9
57	28 May	1808Z	08°40'N	15°47'W	28.5	36.10	NNW	9
58	28 May	1938Z	09°00'N	16°01'W	28.2	---	NNW	9
59	28 May	2108Z	09°20'N	(16°16'W)	27.9	36.35	NNW	9
60	28 May	2238Z	09°40'N	16°31'W	27.4	---	NNW	9
61	29 May	0018Z	10°00'N	16°46'W	28.0	36.32	NNW	9

M. S. ELGAREN

25-29 MAY 1985

XBT Section 74, 28 Jun-2 Jul 85
M.S. Elgaren, crossing equator at 07°53'W

329

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	28 Jun	0931Z	10°00'N	17°03'W	27.2	36.14	W	4
2	28 Jun	1059Z	09°40'N	16°43'W	27.9	---	W	3
3	28 Jun	1236Z	09°20'N	16°23'W	27.8	36.17	W	5
4	28 Jun	1353Z	09°00'N	16°05'W	27.8	---	SW	4
5	28 Jun	1523Z	08°40'N	(15°46'W)	---	36.14	SW	3
6	28 Jun	1705Z	08°20'N	15°26'W	27.8	---	W	4
7	28 Jun	1826Z	08°00'N	15°07'W	28.2	36.35	W	4
8	28 Jun	1947Z	07°40'N	14°50'W	28.0	---	W	4
9	28 Jun	2116Z	07°20'N	14°31'W	28.1	35.90	W	4
10	28 Jun	2244Z	07°00'N	14°13'W	28.0	---	W	4
11	29 Jun	0018Z	06°40'N	13°53'W	28.0	35.74	W	4
12	29 Jun	0135Z	06°20'N	13°37'W	28.2	---	S	4
13	29 Jun	0300Z	06°00'N	13°20'W	28.1	35.71	S	3
14	29 Jun	0433Z	05°40'N	13°01'W	28.2	---	SE	3
15	29 Jun	0605Z	05°20'N	12°41'W	28.1	35.29	SE	3
16	29 Jun	0728Z	05°00'N	12°24'W	27.8	---	S	3
17	29 Jun	0900Z	04°40'N	12°05'W	27.8	35.77	S	3
18	29 Jun	1032Z	04°20'N	11°46'W	27.7	---	SSE	7
19	29 Jun	1209Z	04°00'N	11°27'W	27.7	35.95	SE	16
20	29 Jun	1338Z	03°40'N	11°09'W	27.8	---	SSE	20
21	29 Jun	1510Z	03°20'N	10°51'W	27.7	36.40	SE	22
22	29 Jun	1645Z	03°00'N	10°32'W	27.4	---	SSE	20
23	29 Jun	1820Z	02°40'N	10°14'W	27.0	36.17	SSE	20
24	29 Jun	1954Z	02°20'N	09°56'W	25.7	---	SSE	20
25	29 Jun	2120Z	02°00'N	09°40'W	24.0	36.09	SSE	18
26	29 Jun	2251Z	01°40'N	09°23'W	23.2	---	SSE	15
27	30 Jun	0024Z	01°20'N	09°04'W	22.6	36.18	SSE	15
28	30 Jun	0200Z	01°00'N	08°50'W	22.2	---	SE	10
29	30 Jun	0335Z	00°40'N	08°30'W	22.1	36.21	SE	10
30	30 Jun	0510Z	00°20'N	08°12'W	21.7	---	SE	10
31	30 Jun	0640Z	00°00'	07°53'W	21.7	36.29	SE	10

XBT Section 74, 28 Jun-2 Jul 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	30 Jun	0826Z	00°20'S	07°32'W	21.6	---	0	0
33	30 Jun	1010Z	00°40'S	07°11'W	22.0	36.32	0	0
34	30 Jun	1120Z	01°00'S	06°57'W	22.2	---	0	0
35	30 Jun	1234Z	01°20'S	06°41'W	22.3	36.32	0	0
36	30 Jun	1406Z	01°40'S	06°23'W	22.5	---	SE	6
37	1 Jul	1536Z	02°00'S	06°05'W	23.2	36.34	SE	12
38	1 Jul	1712Z	02°20'S	05°47'W	23.5	---	SE	12
39	1 Jul	1840Z	02°40'S	05°30'W	23.7	36.42	SE	12
40	1 Jul	2014Z	03°00'S	05°11'W	24.0	---	SE	10
41	1 Jul	2148Z	03°20'S	04°54'W	24.0	36.33	SE	15
42	1 Jul	2313Z	03°40'S	04°37'W	24.7	---	SE	16
43	1 Jul	0049Z	04°00'S	04°21'W	25.2	36.07	SE	16
44	1 Jul	0223Z	04°20'S	04°03'W	25.1	---	SE	14
45	1 Jul	0400Z	04°40'S	03°45'W	24.8	36.25	SE	15
46	1 Jul	0530Z	05°00'S	03°27'W	24.8	---	SE	15
47	1 Jul	0655Z	05°20'S	03°12'W	25.2	36.07	SSE	20
48	1 Jul	0826Z	05°40'S	02°55'W	25.5	---	SSE	20
49	1 Jul	1000Z	06°00'S	02°37'W	25.5	36.34	SSE	20
50	1 Jul	1130Z	06°20'S	02°20'W	25.4	---	SSE	20
51	1 Jul	1360Z	06°40'S	02°00'W	25.2	35.96	SSE	20
52	1 Jul	1440Z	07°00'S	01°39'W	25.2	---	SSE	20
53	1 Jul	1615Z	07°20'S	01°20'W	25.2	36.15	SSE	15
54	1 Jul	1750Z	07°40'S	01°00'W	25.0	---	SSE	15
55	1 Jul	1925Z	08°00'S	00°38'W	24.9	36.08	SSE	15
56	1 Jul	2112Z	08°20'S	00°22'W	24.8	---	SSE	20
57	1 Jul	2239Z	08°40'S	00°00'W	24.7	36.15	SSE	20
58	2 Jul	0013Z	09°00'S	00°22'E	24.9	---	S	14
59	2 Jul	0153Z	09°20'S	00°46'E	24.8	36.33	S	12
60	2 Jul	0330Z	09°40'S	01°08'E	24.7	---	SSE	18
61	2 Jul	0505Z	10°00'S	01°28'E	24.7	36.49	SSE	18

28 JUNE - 2 JULY 1985

XBT Section 75, 3-7 Aug 85
Elgaren, crossing equator at 09°47'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	3 Aug	0610Z	10°00'S	01°39'W	23.7	37.56	ESE	20
2	3 Aug	0740Z	09°40'S	01°54'W	23.8	----	ESE	20
3	3 Aug	0905Z	09°20'S	02°10'W	23.6	36.49	ESE	20
4	3 Aug	1024Z	09°00'S	02°24'W	24.0	----	ESE	20
5	3 Aug	1204Z	08°40'S	02°40'W	24.0	36.26	ESE	20
6	3 Aug	1400Z	08°20'S	02°56'W	24.5	----	ESE	20
7	3 Aug	1544Z	08°00'S	03°12'W	24.4	36.49	ESE	20
8	3 Aug	1735Z	07°40'S	03°28'W	24.4	----	ESE	20
9	3 Aug	1900Z	07°20'S	03°43'W	24.2	36.77	ESE	20
10	3 Aug	2040Z	07°00'S	03°58'W	24.4	----	ESE	18
11	3 Aug	2215Z	06°40'S	04°12'W	23.9	35.99	ESE	18
12	3 Aug	2358Z	06°20'S	04°30'W	24.1	----	ESE	18
13	4 Aug	0135Z	06°00'S	04°46'W	24.1	35.98	ESE	18
14	4 Aug	0320Z	05°40'S	05°03'W	24.0	----	ESE	16
15	4 Aug	0500Z	05°20'S	05°19'W	24.0	35.25	ESE	16
16	4 Aug	0635Z	05°00'S	05°33'W	24.1	----	SE	15
17	4 Aug	0811Z	04°40'S	05°49'W	24.0	----	SE	15
18	4 Aug	0954Z	04°20'S	06°05'W	24.0	----	SE	15
19	4 Aug	1123Z	04°00'S	06°20'W	24.1	35.98	SE	15
20	4 Aug	1309Z	03°40'S	06°38'W	24.0	----	SE	15
21	4 Aug	1444Z	03°20'S	06°56'W	23.7	36.03	SE	15
22	4 Aug	1625Z	03°00'S	07°15'W	24.0	----	SE	16
23	4 Aug	1805Z	02°40'S	07°32'W	24.0	35.74	SE	16
24	4 Aug	1950Z	02°20'S	07°50'W	24.0	----	SE	16
25	4 Aug	2125Z	02°00'S	08°05'W	24.0	35.54	SE	16
26	4 Aug	2312Z	01°40'S	08°26'W	24.1	----	SE	16
27	5 Aug	0054Z	01°20'S	08°44'W	24.0	36.04	SE	16
28	5 Aug	0231Z	01°00'S	09°00'W	23.6	----	SE	16
29	5 Aug	0406Z	00°40'S	09°15'W	23.4	36.36	SE	16
30	5 Aug	0540Z	00°20'S	09°30'W	23.2	----	SE	16
31	5 Aug	0724Z	00°00'	09°47'W	23.4	36.27	SE	16

XBT Section 75, 3-7 Aug 85
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	5 Aug	0901Z	00°20'N	10°02'W	23.1	----	SE	16
33	5 Aug	1033Z	00°40'N	10°17'W	23.0	36.23	SE	16
34	5 Aug	(1203Z)	01°00'N	(10°31'W)	23.4	----	SE	16
35	5 Aug	1334Z	01°20'N	10°45'W	23.1	36.10	SE	16
36	5 Aug	1509Z	01°40'N	10°59'W	24.5	----	SE	16
37	5 Aug	1648Z	02°00'N	11°15'W	26.6	35.88	SSE	15
38	5 Aug	1818Z	02°20'N	11°31'W	26.1	----	SSE	15
39	5 Aug	2000Z	02°40'N	11°48'W	26.2	35.67	SSE	15
40	5 Aug	2128Z	03°00'N	12°00'W	26.7	----	SSE	15
41	5 Aug	2257Z	03°20'N	12°15'W	26.6	35.89	SSE	15
42	6 Aug	0029Z	03°40'N	12°28'W	26.9	----	SSE	15
43	6 Aug	0202Z	04°00'N	12°42'W	26.9	35.58	SSE	12
44	6 Aug	0336Z	04°20'N	12°55'W	26.9	----	SSE	12
45	6 Aug	0512Z	04°40'N	13°09'W	27.0	35.85	SSE	12
46	6 Aug	0650Z	05°00'N	13°24'W	27.0	----	SSE	12
47	6 Aug	0840Z	05°20'N	13°40'W	27.0	35.29	S	12
48	6 Aug	1036Z	05°40'N	13°56'W	26.9	----	S	12
49	6 Aug	1200Z	06°00'N	14°08'W	27.0	35.41	S	18
50	6 Aug	1337Z	06°20'N	14°20'W	27.1	----	S	18
51	6 Aug	1506Z	06°40'N	14°33'W	27.1	35.21	S	21
52	6 Aug	1640Z	07°00'N	14°45'W	27.0	----	S	20
53	6 Aug	1810Z	07°20'N	14°58'W	27.0	35.48	S	20
54	6 Aug	1952Z	07°40'N	15°12'W	27.0	----	S	20
55	6 Aug	2135Z	08°00'N	15°27'W	26.7	35.18	S	20
56	6 Aug	2250Z	08°20'N	15°38'W	27.0	----	S	20
57	7 Aug	0028Z	08°40'N	15°52'W	26.9	35.52	S	20
58	7 Aug	0200Z	09°00'N	16°04'W	26.9	----	WSW	18
59	7 Aug	0333Z	09°20'N	16°18'W	26.9	35.85	WSW	18
60	7 Aug	0510Z	09°40'N	16°32'W	26.9	----	WSW	18
61	7 Aug	0640Z	10°00'N	16°45'W	27.0	35.07	WSW	18

3-7 AUGUST 1985

M. S. ELGAREN

M. S. ELGAREN

3-7 AUGUST 1985

XBT Section 76, 7-12 Sep 85
Elgaren, crossing equator at 07°53'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	7 Sep	2322Z	10°00'N	17°03'W	27.2	----	SSW	9
2	8 Sep	0105Z	09°40'N	16°44'W	24.4	35.46	SSW	9
3	8 Sep	0238Z	09°20'N	16°26'W	26.6	----	SSW	9
4	8 Sep	0412Z	09°00'N	16°07'W	27.0	35.17	SSW	9
5	8 Sep	0547Z	08°40'N	15°48'W	27.0	----	S	8
6	8 Sep	0721Z	08°20'N	15°29'W	27.1	35.06	W	8
7	8 Sep	0855Z	08°00'N	15°11'W	27.0	----	WNW	8
8	8 Sep	1029Z	07°40'N	14°53'W	27.0	35.17	WNW	8
9	8 Sep	1203Z	07°20'N	14°34'W	27.0	----	WSW	6
10	8 Sep	1340Z	07°00'N	14°15'W	27.0	34.99	WSW	5
11	8 Sep	1512Z	06°40'N	13°57'W	27.4	----	SW	6
12	8 Sep	1645Z	06°20'N	13°39'W	27.5	35.46	W	6
13	8 Sep	1818Z	06°00'N	13°20'W	27.1	----	WSW	6
14	8 Sep	1956Z	05°40'N	13°02'W	27.0	35.39	WSW	6
15	8 Sep	2132Z	05°20'N	12°43'W	26.8	----	WSW	6
16	8 Sep	(2325Z)	05°00'N	12°25'W	26.8	35.34	S	13
17	9 Sep	0047Z	04°40'N	12°06'W	26.5	----	S	9
18	9 Sep	0232Z	04°20'N	11°46'W	26.5	35.31	S	20
19	9 Sep	0413Z	04°00'N	11°28'W	26.6	----	S	24
20	9 Sep	0557Z	03°40'N	11°08'W	26.4	35.25	S	24
21	9 Sep	0738Z	03°20'N	10°50'W	----	----	S	18
22	9 Sep	0916Z	03°00'N	10°32'W	26.3	35.75	SSE	20
23	9 Sep	1055Z	02°40'N	10°14'W	25.9	----	SSE	20
24	9 Sep	1233Z	02°20'N	09°56'W	25.3	35.65	SSE	20
25	9 Sep	1416Z	02°00'N	09°38'W	25.0	----	SSE	20
26	9 Sep	1557Z	01°40'N	09°21'W	24.4	35.64	S	13
27	9 Sep	1742Z	01°20'N	09°04'W	24.4	----	S	8
28	9 Sep	1928Z	01°00'N	08°47'W	23.5	35.69	S	10
29	9 Sep	2110Z	00°40'N	08°29'W	22.8	----	S	9
30	9 Sep	2252Z	00°20'N	08°12'W	22.3	35.75	S	6
31	10 Sep	0033Z	00°00'	07°53'W	22.4	----	S	6

XBT Section 76, 7-12 Sep 85
(Continued)

339

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	10 Sep	0213Z	00°20'S	07°35'W	22.5	35.73	S	6
33	10 Sep	0356Z	00°40'S	07°17'W	22.4	---	S	13
34	10 Sep	0537Z	01°00'S	06°59'W	23.0	35.75	S	6
35	10 Sep	0709Z	01°20'S	06°44'W	22.5	---	S	12
36	10 Sep	0851Z	01°40'S	06°26'W	22.6	36.32	SSE	15
37	10 Sep	1032Z	02°00'S	06°08'W	23.0	---	SSE	18
38	10 Sep	1217Z	02°20'S	05°49'W	23.2	36.59	SSE	13
39	10 Sep	1357Z	02°40'S	05°31'W	23.5	---	SSE	8
40	10 Sep	1540Z	03°00'S	05°18'W	23.5	36.76	SSE	12
41	10 Sep	1722Z	03°20'S	04°55'W	23.4	---	SSE	13
42	10 Sep	1904Z	03°40'S	04°37'W	23.1	36.46	SSE	13
43	10 Sep	2045Z	04°00'S	04°19'W	23.1	---	SSE	19
44	11 Sep	2238Z	04°20'S	04°01'W	23.1	36.35	SSE	19
45	11 Sep	0028Z	04°40'S	03°42'W	23.3	---	SSE	19
46	11 Sep	0210Z	05°00'S	03°23'W	23.4	36.66	SSE	19
47	11 Sep	0401Z	05°20'S	03°02'W	23.3	---	SSE	19
48	11 Sep	0545Z	05°40'S	02°44'W	23.2	36.70	SSE	19
49	11 Sep	0717Z	06°00'S	02°26'W	23.1	---	SSE	19
50	11 Sep	0911Z	06°20'S	02°08'W	23.0	37.04	SSE	13
51	11 Sep	1053Z	06°40'S	01°49'W	23.1	---	SSE	13
52	11 Sep	1235Z	07°00'S	01°31'W	22.8	36.27	SSE	13
53	11 Sep	1416Z	07°20'S	01°13'W	22.9	---	SSE	18
54	11 Sep	1608Z	07°40'S	00°58'W	22.9	37.59	SSE	20
55	11 Sep	1746Z	08°00'S	00°36'W	22.6	---	SSE	20
56	11 Sep	1930Z	08°20'S	(00°18'W)	22.6	37.17	SSE	20
57	11 Sep	2114Z	08°40'S	00°01'E	22.5	---	SSE	20
58	11 Sep	2259Z	09°00'S	00°20'E	22.3	37.15	SE	23
59	12 Sep	0038Z	09°20'S	00°38'E	22.0	---	SE	24
60	12 Sep	0228Z	09°40'S	00°57'E	21.9	---	SE	24
61	12 Sep	0414Z	10 00'S	01°16'E	21.8	---	---	---

7-12 SEPTEMBER 1985

LONGITUDE

XBT Section 77, 20-25 Aug 85
Victory, crossing equator at 20°45'W

343

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	20 Aug	2013Z	10°00'S	11°09'W	24.3	---	SE	14
2	20 Aug	2320Z	09°40'S	11°28'W	24.2	---	SE	14
3	21 Aug	0130Z	09°20'S	11°46'W	24.2	---	SE	14
4	21 Aug	0315Z	09°00'S	12°06'W	24.0	---	SE	14
5	21 Aug	0520Z	08°40'S	12°26'W	24.1	---	SE	14
6	21 Aug	0758Z	08°20'S	12°51'W	24.0	---	SE	14
7	21 Aug	0925Z	08°00'S	13°04'W	24.1	---	SSE	16
8	21 Aug	1125Z	07°40'S	13°26'W	24.5	---	SSE	16
9	21 Aug	1335Z	07°20'S	13°48'W	24.6	---	SSE	16
10	21 Aug	1520Z	07°00'S	14°06'W	24.8	---	SE	16
11	21 Aug	1715Z	06°40'S	14°27'W	24.6	---	ESE	14
12	21 Aug	1925Z	06°20'S	14°44'W	24.7	---	ESE	14
13	21 Aug	2120Z	06°00'S	15°05'W	24.1	---	ESE	14
14	21 Aug	2320Z	05°40'S	15°27'W	23.4	---	ESE	14
15	22 Aug	0120Z	05°20'S	15°46'W	23.8	---	SE	14
16	22 Aug	0320Z	05°00'S	16°04'W	23.7	---	SE	14
17	22 Aug	0514Z	04°40'S	16°22'W	24.0	---	SE	12
18	22 Aug	0704Z	04°20'S	16°38'W	23.8	---	SE	9
19	22 Aug	0905Z	04°00'S	16°57'W	23.4	---	SE	14
20	22 Aug	1100Z	03°40'S	17°04'W	23.5	---	SE	12
21	22 Aug	1302Z	03°20'S	17°34'W	23.8	---	SE	12
22	22 Aug	1500Z	03°00'S	17°54'W	24.2	---	SE	12
23	22 Aug	1720Z	02°40'S	18°14'W	24.3	---	SE	12
24	22 Aug	1924Z	02°20'S	18°33'W	24.4	---	SE	12
25	22 Aug	2130Z	02°00'S	18°52'W	24.4	---	SE	12
26	22 Aug	2314Z	01°40'S	19°14'W	24.0	---	SE	12
27	23 Aug	0110Z	01°20'S	19°34'W	23.9	---	SE	12
28	23 Aug	0310Z	01°00'S	19°52'W	23.7	---	SE	12
29	23 Aug	0502Z	00°40'S	20°10'W	23.6	---	SE	10
30	23 Aug	0708Z	00°20'S	20°29'W	23.2	---	SE	8
31	23 Aug	0851Z	00°00'	20°45'W	23.4	---	SE	7

XBT Section 77, 20-25 Aug 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	23 Aug	1040Z	00°20'N	21°06'W	23.4	---	SE	7
33	23 Aug	1205Z	00°40'N	21°23'W	23.8	---	SE	7
34	23 Aug	1345Z	01°00'N	21°40'W	24.3	---	SE	7
35	23 Aug	1550Z	01°20'N	22°01'W	25.3	---	S	15
36	23 Aug	1740Z	01°40'N	22°20'W	26.1	---	S	7
37	23 Aug	1943Z	02°00'N	22°38'W	26.1	---	S	7
38	23 Aug	2134Z	02°20'N	23°06'W	25.8	---	S	7
39	23 Aug	2324Z	02°40'N	23°19'W	25.9	---	S	7
40	24 Aug	0109Z	03°00'N	23°36'W	26.4	---	S	7
41	24 Aug	0310Z	03°20'N	23°55'W	26.7	---	SSW	10
42	24 Aug	0507Z	03°40'N	24°14'W	27.3	---	SW	8
43	24 Aug	0708Z	04°00'N	24°34'W	27.6	---	L/AIRS	---
44	24 Aug	0915Z	04°20'N	24°54'W	27.7	---	S	12
45	24 Aug	1120Z	04°40'N	25°12'W	27.7	---	S	14
46	24 Aug	1320Z	05°00'N	25°28'W	27.7	---	S	14
47	24 Aug	1525Z	05°20'N	25°46'W	27.9	---	SW	12
48	24 Aug	1736Z	05°40'N	26°07'W	27.8	---	WSW	7
49	24 Aug	(1949Z)	06°00'N	26°22'W	27.6	---	WSW	7
50	24 Aug	2202Z	06°20'N	26°36'W	27.7	---	WSW	7
51	24 Aug	2358Z	06°40'N	26°52'W	27.7	---	W	10
52	25 Aug	0210Z	07°00'N	27°13'W	27.7	---	W	10
53	25 Aug	0430Z	07°20'N	27°34'W	27.5	---	W	10
54	25 Aug	0700Z	07°40'N	27°55'W	27.7	---	NW	9
55	25 Aug	0907Z	08°00'N	28°15'W	28.5	---	SW	8
56	25 Aug	(1117Z)	08°20'N	28°36'W	27.7	---	L/AIRS	---
57	25 Aug	1328Z	08°40'N	28°56'W	27.7	---	L/AIRS	---
58	25 Aug	1555Z	09°00'N	29°19'W	27.8	---	L/AIRS	---
59	25 Aug	1800Z	09°20'N	29°41'W	27.8	---	L/AIRS	---
60	25 Aug	2015Z	09°40'N	30°04'W	27.7	---	L/AIRS	---
61	25 Aug	2205Z	10°00'N	30°20'W	27.7	---	C	C

344

VICTORY

20-25 AUGUST 1985

XBT Section 78, 17-22 Sep 85
Victory, crossing equator at 36°02'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	17 Sep	1906Z	10°00'N	49°09'W	28.7	---	E	3
2	17 Sep	2110Z	09°40'N	48°40'W	28.7	---	NE	8
3	17 Sep	2306Z	09°20'N	48°14'W	29.3	---	NNE	10
4	18 Sep	(0055Z)	09°00'N	47°49'W	28.7	---	NNE	10
5	18 Sep	0244Z	08°40'N	47°26'W	29.2	---	NE	2
6	18 Sep	0440Z	08°20'N	47°00'W	29.3	---	E	2
7	18 Sep	0635Z	08°00'N	46°32'W	28.7	---	L/AIRS	---
8	18 Sep	0835Z	07°40'N	46°01'W	28.7	---	ENE	10
9	18 Sep	(1046Z)	07°20'N	(45°33'W)	---	---	ENE	8
10	18 Sep	1257Z	07°00'N	45°04'W	29.0	---	ENE	8
11	18 Sep	1535Z	06°40'N	44°28'W	28.6	---	L/AIR	---
12	18 Sep	1705Z	06°20'N	44°07'W	28.7	---	L/AIR	---
13	18 Sep	1910Z	06°00'N	43°37'W	27.7	---	L/AIR	---
14	18 Sep	2150Z	05°40'N	42°52'W	28.1	---	SSE	7
15	19 Sep	0000Z	05°20'N	42°22'W	28.1	---	SSE	10
16	19 Sep	0157Z	05°00'N	41°59'W	28.2	---	SSE	8
17	19 Sep	0345Z	04°40'N	41°33'W	28.1	---	SSE	8
18	19 Sep	0540Z	04°20'N	41°08'W	27.8	---	SE	8
19	19 Sep	0742Z	04°00'N	40°42'W	27.9	---	SE	10
20	19 Sep	0915Z	03°40'N	40°20'W	27.7	---	SE	10
21	19 Sep	(1045Z)	03°20'N	40°02'W	27.8	---	SE	10
22	19 Sep	1215Z	03°00'N	39°40'W	27.7	---	SE	12
23	19 Sep	1440Z	02°40'N	39°16'W	27.8	---	SSE	12
24	19 Sep	1630Z	02°20'N	38°52'W	27.4	---	SSE	12
25	19 Sep	1840Z	02°00'N	38°24'W	27.8	---	SSE	12
26	19 Sep	(2035Z)	01°40'N	37°59'W	27.7	---	SSE	12
27	19 Sep	(2230Z)	01°20'N	37°36'W	27.3	---	SSE	12
28	20 Sep	0025Z	01°00'N	37°13'W	27.2	---	SE	10
29	20 Sep	0225Z	00°40'N	36°50'W	26.9	---	SE	10
30	20 Sep	0420Z	00°20'N	36°26'W	26.7	---	SE	10
31	20 Sep	0622Z	00°00'	36°02'W	26.6	---	SE	10

XBT Section 78, 17-22 Sep 85
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	20 Sep	0830Z	00°20'S	35°35'W	26.2	---	SE	10
33	20 Sep	(1035Z)	00°40'S	35°05'W	26.2	---	SE	12
34	20 Sep	(1240Z)	01°00'S	34°34'W	26.3	---	ESE	12
35	20 Sep	1445Z	01°20'S	34°09'W	26.5	---	SE	16
36	20 Sep	1648Z	01°40'S	33°42'W	26.6	---	SE	16
37	20 Sep	(1852Z)	02°00'S	33°13'W	26.6	---	SE	16
38	20 Sep	2056Z	02°20'S	32°50'W	26.3	---	SE	16
39	20 Sep	2235Z	02°40'S	32°27'W	26.4	---	SE	16
40	21 Sep	0041Z	03°00'S	32°00'W	26.3	---	SE	16
41	21 Sep	0240Z	03°20'S	31°34'W	25.8	---	SE	16
42	21 Sep	0440Z	03°40'S	31°10'W	25.7	---	SE	16
43	21 Sep	0638Z	04°00'S	30°43'W	25.8	---	SE	16
44	21 Sep	(0841Z)	04°20'S	30°15'W	25.7	---	ESE	18
45	21 Sep	(1045Z)	04°40'S	29°49'W	25.7	---	ESE	16
46	21 Sep	1248Z	05°00'S	29°26'W	26.0	---	ESE	16
47	21 Sep	1510Z	05°20'S	28°57'W	26.1	---	ESE	16
48	21 Sep	1700Z	05°40'S	28°32'W	26.2	---	ESE	15
49	21 Sep	1901Z	06°00'S	28°06'W	26.1	---	ESE	15
50	21 Sep	(2041Z)	06°20'S	27°38'W	25.8	---	ESE	15
51	21 Sep	(2221Z)	06°40'S	27°16'W	26.4	---	ESE	15
52	22 Sep	0002Z	07°00'S	26°49'W	25.7	---	ESE	16
53	22 Sep	0310Z	07°20'S	26°21'W	25.4	---	ESE	18
54	22 Sep	0516Z	07°40'S	25°52'W	25.7	---	ESE	18
55	22 Sep	0750Z	08°00'S	25°18'W	25.7	---	E	12
56	22 Sep	(0950Z)	08°20'S	24°53'W	25.6	---	E	12
57	22 Sep	(1150Z)	08°40'S	24°27'W	25.1	---	E	16
58	22 Sep	1350Z	09°00'S	23°56'W	25.5	---	ESE	20
59	22 Sep	1525Z	09°20'S	23°36'W	25.8	---	ESE	20
60	22 Sep	(1723Z)	09°40'S	23°08'W	----	---	ESE	15
61	22 Sep	1921Z	10°00'S	22°43'W	25.5	---	----	----

VICTORY

17-22 SEPTEMBER 1985

XBT Section 79, 11-15 Oct 85
Elgaren, crossing equator at 07°43'W

352

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	11 Oct	0450Z	10°00'S	01°20'E	22.0	35.94	---	---
2	11 Oct	0533Z	09°40'S	00°58'E	22.3	---	---	---
3	11 Oct	0800Z	09°20'S	00°38'E	22.4	35.78	---	---
4	11 Oct	0827Z	09°00'S	00°20'E	22.6	---	---	---
5	11 Oct	0954Z	08°40'S	00°02'E	22.8	36.39	---	---
6	11 Oct	1120Z	08°20'S	00°12'W	23.2	---	---	---
7	11 Oct	1246Z	08°00'S	00°30'W	23.2	36.09	---	---
8	11 Oct	1411Z	07°40'S	00°55'W	23.6	---	---	---
9	11 Oct	1536Z	07°20'S	01°12'W	23.6	36.30	---	---
10	11 Oct	1701Z	07°00'S	01°28'W	23.4	---	---	---
11	11 Oct	1827Z	06°40'S	01°48'W	23.9	36.26	---	---
12	11 Oct	1952Z	06°20'S	02°05'W	23.8	---	---	---
13	11 Oct	2115Z	06°00'S	02°26'W	23.9	36.20	---	---
14	11 Oct	2240Z	05°40'S	02°42'W	23.8	---	---	---
15	12 Oct	0005Z	05°20'S	03°00'W	23.9	35.74	---	---
16	12 Oct	0130Z	05°00'S	03°18'W	24.3	---	---	---
17	12 Oct	0255Z	04°40'S	03°35'W	24.3	36.02	---	---
18	12 Oct	0412Z	04°20'S	03°55'W	24.5	---	---	---
19	12 Oct	0543Z	04°00'S	04°10'W	24.5	35.68	---	---
20	12 Oct	0706Z	03°40'S	04°30'W	24.3	---	---	---
21	12 Oct	0842Z	03°20'S	04°50'W	24.0	36.36	---	---
22	12 Oct	1016Z	03°00'S	05°05'W	24.1	---	---	---
23	12 Oct	1207Z	02°40'S	05°23'W	24.3	35.68	---	---
24	12 Oct	1344Z	02°20'S	05°40'W	24.3	---	---	---
25	12 Oct	1518Z	02°00'S	05°58'W	24.4	36.23	---	---
26	12 Oct	1652Z	01°40'S	06°15'W	24.4	---	---	---
27	12 Oct	1826Z	01°20'S	06°33'W	24.2	36.26	---	---
28	12 Oct	1957Z	01°00'S	06°49'W	24.0	---	---	---
29	12 Oct	2132Z	00°40'S	07°07'W	24.1	---	---	---
30	12 Oct	2309Z	00°20'S	07°25'W	24.6	---	---	---
31	13 Oct	0056Z	00°00'	07°43'W	24.6	36.06	---	---

XBT Section 79, 11-15 Oct 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	13 Oct	0223Z	00°20'N	08°01'W	24.7	---	---	---
33	13 Oct	0358Z	00°40'N	08°19'W	24.6	---	---	---
34	13 Oct	0532Z	01°00'N	08°36'W	25.1	---	---	---
35	13 Oct	0709Z	01°20'N	08°54'W	25.1	36.07	---	---
36	13 Oct	0842Z	01°40'N	09°10'W	25.3	---	---	---
37	13 Oct	1020Z	02°00'N	09°30'W	26.0	36.57	---	---
38	13 Oct	1150Z	02°20'N	09°40'W	26.6	---	---	---
39	13 Oct	1339Z	02°42'N	10°00'W	27.0	36.11	---	---
40	13 Oct	1510Z	03°00'N	10°16'W	27.2	---	---	---
41	13 Oct	1648Z	03°20'N	10°33'W	27.4	36.20	---	---
42	13 Oct	1828Z	03°40'N	10°51'W	27.7	---	---	---
43	13 Oct	2010Z	04°00'N	11°09'W	27.5	36.78	---	---
44	13 Oct	2127Z	04°20'N	11°27'W	27.6	---	---	---
45	13 Oct	2331Z	04°40'N	11°45'W	27.6	36.30	---	---
46	14 Oct	0110Z	05°00'N	12°04'W	27.6	---	---	---
47	14 Oct	0252Z	05°20'N	12°22'W	---	36.37	---	---
48	14 Oct	0423Z	05°40'N	12°40'W	---	---	---	---
49	14 Oct	0612Z	06°00'N	12°58'W	---	36.42	---	---
50	14 Oct	0758Z	06°20'N	12°17'W	---	---	---	---
51	14 Oct	0945Z	06°40'N	12°35'W	27.9	36.42	---	---
52	14 Oct	1134Z	07°00'N	13°54'W	27.7	---	---	---
53	14 Oct	1321Z	07°20'N	14°13'W	---	36.16	---	---
54	14 Oct	1508Z	07°40'N	14°32'W	28.3	---	---	---
55	14 Oct	1654Z	08°00'N	14°51'W	29.2	36.20	---	---
56	14 Oct	1838Z	08°20'N	15°09'W	28.7	---	---	---
57	14 Oct	2023Z	08°40'N	15°28'W	28.8	36.46	---	---
58	14 Oct	2208Z	09°00'N	15°42'W	28.7	---	---	---
59	14 Oct	2353Z	09°20'N	(16°03'W)	---	36.98	---	---
60	15 Oct	0152Z	09°40'N	(16°24'W)	---	---	---	---
61	15 Oct	0334Z	10°00'N	16°45'W	28.2	36.59	---	---

M.S. ELGAREN

11-15 OCTOBER 1985

XBT Section 80, 15-20 Nov 85
Elgaren, crossing equator at 07°45'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(0/00)	Wind Dir. (from)	Wind Spd. (knots)
1	15 Nov	2130Z	10°00'N	17°03'W	28.9	36.51	---	---
2	15 Nov	2210Z	09°40'N	16°42'W	28.7	---	---	---
3	15 Nov	2348Z	09°20'N	16°18'W	29.1	36.50	---	---
4	16 Nov	0144Z	09°00'N	16°06'W	29.1	---	---	---
5	16 Nov	0235Z	08°40'N	15°47'W	29.1	36.50	---	---
6	16 Nov	0510Z	08°20'N	15°27'W	28.8	---	---	---
7	16 Nov	0650Z	08°00'N	15°09'W	28.6	36.46	---	---
8	16 Nov	0830Z	07°40'N	14°51'W	28.9	---	---	---
9	16 Nov	1030Z	07°20'N	14°31'W	28.5	36.26	---	---
10	16 Nov	1200Z	07°00'N	14°15'W	28.7	---	---	---
11	16 Nov	1346Z	06°40'N	13°56'W	---	35.76	---	---
12	16 Nov	1534Z	06°20'N	13°37'W	28.5	---	---	---
13	16 Nov	1720Z	06°00'N	13°17'W	28.7	36.22	---	---
14	16 Nov	1905Z	05°40'N	12°59'W	28.4	---	---	---
15	16 Nov	2050Z	05°20'N	12°40'W	28.2	36.31	---	---
16	16 Nov	2232Z	05°00'N	12°22'W	28.2	---	---	---
17	17 Nov	0015Z	04°40'N	12°03'W	28.0	36.24	---	---
18	17 Nov	0200Z	04°20'N	11°43'W	27.9	---	---	---
19	17 Nov	0345Z	04°00'N	11°24'W	27.6	---	---	---
20	17 Nov	0535Z	03°40'N	11°04'W	27.5	---	---	---
21	17 Nov	0715Z	03°20'N	10°47'W	27.4	36.49	---	---
22	17 Nov	0900Z	03°00'N	10°28'W	27.3	---	---	---
23	17 Nov	1040Z	02°40'N	10°15'W	27.2	36.23	---	---
24	17 Nov	1215Z	02°20'N	10°08'W	26.9	---	---	---
25	17 Nov	1354Z	02°00'N	09°46'W	27.0	36.10	---	---
26	17 Nov	1600Z	01°40'N	09°25'W	26.2	---	---	---
27	17 Nov	1800Z	01°20'N	09°06'W	26.2	36.93	---	---
28	17 Nov	2000Z	01°00'N	08°45'W	26.2	---	---	---
29	17 Nov	2200Z	00°40'N	08°25'W	26.3	35.16	---	---
30	17 Nov	2355Z	00°20'N	08°05'W	26.3	---	---	---
31	18 Nov	0151Z	00°00'	07°45'W	26.0	36.73	---	---

XBT Section 80, 15-20 Nov 85
(Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	18 Nov	0348Z	00°20'S	07°26'W	26.2	---	---	---
33	18 Nov	0545Z	00°40'S	07°07'W	25.4	35.06	---	---
34	18 Nov	0740Z	01°00'S	06°48'W	24.9	---	---	---
35	18 Nov	0948Z	01°20'S	06°25'W	25.0	35.08	---	---
36	18 Nov	1120Z	01°40'S	06°10'W	25.1	---	---	---
37	18 Nov	1318Z	02°00'S	05°52'W	25.3	35.93	---	---
38	18 Nov	1512Z	02°20'S	05°31'W	25.4	---	---	---
39	18 Nov	1700Z	02°40'S	05°12'W	25.6	35.45	---	---
40	18 Nov	1855Z	03°00'S	04°54'W	25.6	---	---	---
41	18 Nov	2050Z	03°20'S	04°33'W	25.6	35.51	---	---
42	18 Nov	2230Z	03°40'S	04°15'W	25.5	---	---	---
43	19 Nov	0021Z	04°00'S	03°57'W	25.7	34.25	---	---
44	19 Nov	0206Z	04°20'S	03°38'W	25.6	---	---	---
45	19 Nov	0351Z	04°40'S	03°19'W	25.0	36.82	---	---
46	19 Nov	0540Z	05°00'S	03°00'W	24.3	---	---	---
47	19 Nov	0724Z	05°20'S	02°42'W	24.3	35.06	---	---
48	19 Nov	0914Z	05°40'S	02°22'W	24.6	---	---	---
49	19 Nov	1105Z	06°00'S	02°00'W	24.9	35.77	---	---
50	19 Nov	1240Z	06°20'S	01°45'W	24.7	---	---	---
51	19 Nov	1421Z	06°40'S	01°26'W	24.4	35.74	---	---
52	19 Nov	1606Z	07°00'S	01°07'W	24.2	---	---	---
53	19 Nov	1750Z	07°20'S	00°47'W	23.9	35.82	---	---
54	19 Nov	1940Z	07°40'S	00°28'W	23.7	---	---	---
55	19 Nov	2130Z	08°00'S	00°08'W	23.3	35.90	---	---
56	19 Nov	2306Z	08°20'S	00°10'E	22.3	---	---	---
57	20 Nov	0054Z	08°40'S	00°28'E	22.7	35.97	---	---
58	20 Nov	0242Z	09°00'S	00°48'E	22.6	---	---	---
59	20 Nov	0430Z	09°20'S	01°08'E	23.2	35.86	---	---
60	20 Nov	0612Z	09°40'S	01°26'E	23.0	---	---	---
61	20 Nov	0800Z	10°00'S	01°45'E	22.8	---	---	---

M.S. ELGAREN

15-20 NOVEMBER 1985

XBT Section 81, 14-18 Dec 85
Victory, crossing equator at 25°19'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	14 Dec	(0220Z)	10°00'S	14°50'W	24.8	36.79	----	----
2	14 Dec	-----	09°40'S	15°12'W	25.0	-----	----	----
3	14 Dec	-----	09°20'S	15°33'W	-----	36.23	----	----
4	14 Dec	(0800Z)	09°00'S	15°54'W	24.9	-----	----	----
5	14 Dec	-----	08°40'S	16°15'W	24.5	36.10	----	----
6	14 Dec	-----	08°20'S	16°32'W	25.2	-----	----	----
7	14 Dec	(1400Z)	08°00'S	16°57'W	25.3	36.40	----	----
8	14 Dec	-----	07°40'S	17°20'W	25.7	-----	----	----
9	14 Dec	-----	07°20'S	17°39'W	25.7	36.17	----	----
10	14 Dec	(2000Z)	07°00'S	18°01'W	25.6	-----	----	----
11	14 Dec	-----	06°40'S	18°23'W	25.6	35.91	----	----
12	14 Dec	-----	06°20'S	18°44'W	25.7	-----	----	----
13	15 Dec	(0130Z)	06°00'S	19°05'W	25.7	35.95	----	----
14	15 Dec	-----	05°40'S	19°26'W	26.0	-----	----	----
15	15 Dec	-----	05°20'S	19°48'W	25.7	35.98	----	----
16	15 Dec	(0715Z)	05°00'S	20°09'W	25.8	-----	----	----
17	15 Dec	-----	04°40'S	20°30'W	25.8	35.89	----	----
18	15 Dec	-----	04°20'S	20°51'W	25.8	-----	----	----
19	15 Dec	1258Z	04°00'S	21°11'W	26.1	35.94	----	----
20	15 Dec	1522Z	03°40'S	21°44'W	26.5	-----	----	----
21	15 Dec	1649Z	03°20'S	21°55'W	-----	35.91	----	----
22	15 Dec	1857Z	03°00'S	22°15'W	26.2	-----	----	----
23	15 Dec	2031Z	02°40'S	22°38'W	26.2	35.93	----	----
24	15 Dec	2222Z	02°20'S	22°58'W	26.3	-----	----	----
25	16 Dec	(0040Z)	02°00'S	23°16'W	26.5	35.91	----	----
26	16 Dec	0212Z	01°40'S	23°38'W	26.2	-----	----	----
27	16 Dec	0417Z	01°20'S	23°57'W	26.5	36.03	----	----
28	16 Dec	0558Z	01°00'S	24°16'W	26.4	-----	----	----
29	16 Dec	-----	00°40'S	24°36'W	26.4	35.88	----	----
30	16 Dec	-----	00°20'S	24°57'W	26.7	-----	----	----
31	16 Dec	(1230Z)	00°00'	25°19'W	26.9	35.90	----	----

XBT Section 81, 14-18 Dec 85
 (Continued)

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	16 Dec	----	00°20'N	25°41'W	27.2	----	----	----
33	16 Dec	----	00°40'N	25°54'W	27.5	35.93	----	----
34	16 Dec	(1820Z)	01°00'N	26°23'W	28.1	----	----	----
35	16 Dec	----	01°20'N	26°42'W	27.6	35.88	----	----
36	16 Dec	----	01°40'N	27°05'W	27.8	----	----	----
37	17 Dec	(0000Z)	02°00'N	27°28'W	27.7	36.07	----	----
38	17 Dec	----	02°20'N	27°51'W	27.6	----	----	----
39	17 Dec	----	02°40'N	28°12'W	28.0	35.87	----	----
40	17 Dec	(0600Z)	03°00'N	28°28'W	28.0	----	----	----
41	17 Dec	----	03°20'N	28°49'W	27.8	35.40	----	----
42	17 Dec	----	03°40'N	29°10'W	27.7	----	----	----
43	17 Dec	(1140Z)	04°00'N	29°28'W	27.7	35.09	----	----
44	17 Dec	----	04°20'N	29°47'W	27.5	----	----	----
45	17 Dec	1536Z	04°40'N	30°07'W	27.6	35.11	----	----
46	17 Dec	1755Z	05°00'N	30°31'W	27.3	----	----	----
47	17 Dec	1925Z	05°20'N	30°47'W	27.3	35.16	----	----
48	17 Dec	----	05°40'N	31°09'W	27.1	----	----	----
49	17 Dec	(2300Z)	06°00'N	31°30'W	27.3	35.00	----	----
50	18 Dec	(0115Z)	06°20'N	31°52'W	27.1	----	----	----
51	18 Dec	----	06°40'N	32°14'W	27.2	34.53	----	----
52	18 Dec	(0500Z)	07°00'N	32°33'W	27.1	----	----	----
53	18 Dec	----	07°20'N	32°55'W	27.0	34.30	----	----
54	18 Dec	----	07°40'N	33°18'W	27.1	----	----	----
55	18 Dec	(1100Z)	08°00'N	33°42'W	27.0	35.34	----	----
56	18 Dec	----	08°20'N	34°05'W	27.0	----	----	----
57	18 Dec	----	08°40'N	34°29'W	26.9	35.33	----	----
58	18 Dec	(1700Z)	09°00'N	34°42'W	26.8	----	----	----
59	18 Dec	----	09°20'N	35°03'W	26.8	35.47	----	----
60	18 Dec	----	09°40'N	35°25'W	26.6	----	----	----
61	18 Dec	(2240Z)	10°00'N	35°49'W	26.3	35.47	----	----

VICTORY

14-18 DECEMBER 1985

VICTORY

14-18 DECEMBER 1985

XBT Section 82, 14-20 Jan 86
Victory, crossing equator at 32°45'W

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
1	14 Jan	(1130Z)	10°00'N	47°17'W	25.9	34.32	---	---
2	14 Jan	----	09°40'N	46°47'W	25.9	----	---	---
3	14 Jan	----	09°20'N	46°20'W	26.0	32.62	---	---
4	14 Jan	1838Z	09°00'N	45°50'W	26.0	----	---	---
5	14 Jan	2106Z	08°40'N	45°18'W	26.6	32.53	---	---
6	14 Jan	----	08°20'N	44°46'W	26.6	----	---	---
7	15 Jan	(0100Z)	08°00'N	44°15'W	26.2	31.56	---	---
8	15 Jan	----	07°40'N	43°45'W	26.5	----	---	---
9	15 Jan	----	07°20'N	43°20'W	26.6	33.62	---	---
10	15 Jan	(0800Z)	07°00'N	42°52'W	26.8	----	---	---
11	15 Jan	----	06°40'N	42°22'W	26.9	35.50	---	---
12	15 Jan	----	06°20'N	41°54'W	26.9	----	---	---
13	15 Jan	(1500Z)	06°00'N	41°27'W	26.9	35.25	---	---
14	15 Jan	1628Z	05°40'N	41°00'W	27.1	----	---	---
15	15 Jan	1844Z	05°20'N	40°32'W	27.1	35.51	---	---
16	15 Jan	2103Z	05°00'N	40°02'W	27.1	----	---	---
17	16 Jan	----	04°40'N	39°31'W	27.2	34.73	---	---
18	16 Jan	0156Z	04°20'N	38°59'W	27.2	----	---	---
19	16 Jan	0422Z	04°00'N	38°27'W	27.1	35.63	---	---
20	16 Jan	----	03°40'N	37°57'W	27.1	----	---	---
21	16 Jan	----	03°20'N	37°27'W	27.1	35.59	---	---
22	16 Jan	(1100Z)	03°00'N	36°59'W	27.1	----	---	---
23	16 Jan	----	02°40'N	36°35'W	27.2	36.29	---	---
24	16 Jan	----	02°20'N	36°07'W	27.2	----	---	---
25	16 Jan	(1800Z)	02°00'N	35°38'W	27.2	36.12	---	---
26	16 Jan	----	01°40'N	35°09'W	27.4	----	---	---
27	16 Jan	----	01°20'N	34°42'W	27.2	36.39	---	---
28	17 Jan	(0100Z)	01°00'N	34°12'W	27.1	----	---	---
29	17 Jan	----	00°40'N	33°45'W	27.1	35.78	---	---
30	17 Jan	----	00°20'N	33°08'W	27.1	----	---	---
31	17 Jan	(0800Z)	00°00'	32°45'W	27.1	36.17	---	---

XBT Section 82, 14-20 Jan 86
(Continued)

366

Sta.No.	Date	Time	Lat.	Long.	SST(°C)	SS Sal(°/oo)	Wind Dir. (from)	Wind Spd. (knots)
32	17 Jan	----	00°20'S	32°10'W	27.1	----	----	----
33	17 Jan	----	00°40'S	31°37'W	27.2	35.87	----	----
34	17 Jan	(1430Z)	01°00'S	31°11'W	27.4	----	----	----
35	17 Jan	----	01°20'S	30°42'W	27.5	36.05	----	----
36	17 Jan	----	01°40'S	30°15'W	27.4	----	----	----
37	17 Jan	(2130Z)	02°00'S	29°48'W	27.1	36.10	----	----
38	17 Jan	----	02°20'S	29°23'W	27.3	----	----	----
39	17 Jan	----	02°40'S	28°54'W	27.3	36.34	----	----
40	18 Jan	(0420Z)	03°00'S	28°27'W	27.3	----	----	----
41	18 Jan	----	03°20'S	28°03'W	27.4	36.06	----	----
42	18 Jan	----	03°40'S	27°33'W	27.3	----	----	----
43	18 Jan	(1100Z)	04°00'S	27°05'W	27.2	36.01	----	----
44	18 Jan	1330Z	04°20'S	26°37'W	27.1	----	----	----
45	18 Jan	1608Z	04°40'S	26°04'W	26.7	36.21	----	----
46	18 Jan	1806Z	05°00'S	25°39'W	27.1	----	----	----
47	18 Jan	----	05°20'S	25°00'W	27.1	36.08	----	----
48	18 Jan	----	05°40'S	24°38'W	26.9	----	----	----
49	19 Jan	(0100Z)	06°00'S	24°08'W	26.8	----	----	----
50	19 Jan	----	06°20'S	23°41'W	27.0	----	----	----
51	19 Jan	----	06°40'S	23°12'W	26.8	36.10	----	----
52	19 Jan	(0800Z)	07°00'S	22°45'W	26.8	----	----	----
53	19 Jan	----	07°20'S	22°15'W	26.5	36.46	----	----
54	19 Jan	----	07°40'S	21°46'W	26.8	----	----	----
55	19 Jan	(1500Z)	08°00'S	21°17'W	26.8	36.33	----	----
56	19 Jan	----	08°20'S	20°48'W	26.7	----	----	----
57	19 Jan	----	08°40'S	20°19'W	26.6	36.56	----	----
58	19 Jan	(2130Z)	09°00'S	19°49'W	26.2	----	----	----
59	20 Jan	----	09°20'S	19°19'W	25.9	36.63	----	----
60	20 Jan	----	09°40'S	18°50'W	26.1	----	----	----
61	20 Jan	(0430Z)	10°00'S	18°23'W	25.8	36.49	----	----

14-20 JANUARY 1986

VICTORY

VICTORY

14-20 JANUARY 1986

Figure 2. AXBT station positions by NAVOCEANO, March 1983 survey. September 1983 positions are similar. No observations were allowed in the Brazilian 500 mile limit. Solid line shows mean track of western XBT sections from ships presented in this report.

Figure 2. AXBT station positions by NAVOCEANO, March 1983 survey. September 1983 positions are similar. No observations were allowed in the Brazilian 200 mile limit. Solid line shows mean track of western XBT sections from ships presented in this report.

Figure 3. Depth (m) of 20°C isotherm off northeastern South America from AXBT surveys during 6-17 March 1983. Stations having thermohaline steps (Bruce et al., 1984; Boyd and Perkins, 1987) shown with diamond (large, strong steps; small, moderate).

Figure 4. As Figure 3 except for period 13-20 September 1983.

Figure 5. Depth (m) difference of 20°C isotherm, values from 13-20 September 1983 (Figure 4) minus those from 6-17 March 1983 (Figure 3).

DOCUMENT LIBRARY

August 21, 1987

Distribution List for Technical Report Exchange

Attn: Stella Sanchez-Wade
Documents Section
Scripps Institution of Oceanography
Library, Mail Code C-075C
La Jolla, CA 92093

Hancock Library of Biology &
Oceanography
Alan Hancock Laboratory
University of Southern California
University Park
Los Angeles, CA 90089-0371

Gifts & Exchanges
Library
Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, NS, B2Y 4A2, CANADA

Office of the International
Ice Patrol
c/o Coast Guard R & D Center
Avery Point
Groton, CT 06340

Library
Physical Oceanographic Laboratory
Nova University
8000 N. Ocean Drive
Dania, FL 33304

NOAA/EDIS Miami Library Center
4301 Rickenbacker Causeway
Miami, FL 33149

Library
Skidaway Institute of Oceanography
P.O. Box 13687
Savannah, GA 31416

Institute of Geophysics
University of Hawaii
Library Room 252
2525 Correa Road
Honolulu, HI 96822

Library
Chesapeake Bay Institute
4800 Atwell Road
Shady Side, MD 20876

MIT Libraries
Serial Journal Room 14E-210
Cambridge, MA 02139

Director, Ralph M. Parsons Laboratory
Room 48-311
MIT
Cambridge, MA 02139

Marine Resources Information Center
Building E38-320
MIT
Cambridge, MA 02139

Library
Lamont-Doherty Geological
Observatory
Columbia University
Palisades, NY 10964

Library
Serials Department
Oregon State University
Corvallis, OR 97331

Pell Marine Science Library
University of Rhode Island
Narragansett Bay Campus
Narragansett, RI 02882

Working Collection
Texas A&M University
Dept. of Oceanography
College Station, TX 77843

Library
Virginia Institute of Marine Science
Gloucester Point, VA 23062

Fisheries-Oceanography Library
151 Oceanography Teaching Bldg.
University of Washington
Seattle, WA 98195

Library
R.S.M.A.S.
University of Miami
4600 Rickenbacker Causeway
Miami, FL 33149

Maury Oceanographic Library
Naval Oceanographic Office
Bay St. Louis
NSTL, MS 39522-5001

REPORT DOCUMENTATION PAGE	1. REPORT NO. WHOI-87-41	2.	3. Recipient's Accession No.
4. Title and Subtitle XBT Observations Between 10°N - 10°S in the Atlantic from Ships-of-Opportunity, Complemented by AXBT Surveys			5. Report Date October 1987
7. Author(s) John G. Bruce			6.
9. Performing Organization Name and Address Woods Hole Oceanographic Institution Woods Hole, Massachusetts 02543			8. Performing Organization Rept. No. WHOI-87-41
12. Sponsoring Organization Name and Address National Science Foundation			10. Project/Task/Work Unit No.
			11. Contract(C) or Grant(G) No. (C) OCE 83-02794 (G) OCE 85-15332
			13. Type of Report & Period Covered Technical Report
			14.
15. Supplementary Notes This report should be cited as: Woods Hole Oceanog. Inst. Tech. Rept., WHOI-87-41.			
16. Abstract (Limit: 200 words) A description and listing of 82 XBT sections of 61 stations each from ships-of-opportunity between 10° N-10° S in the Atlantic Ocean from January 1980 to January 1986 is presented. This work was associated with the SEQUAL program. A temperature-depth figure for each section is given with surface temperature, salinity, and σ_t and wind data. Complimentary AXBT observations during two 1983 surveys are also presented.			
17. Document Analysis a. Descriptors 1. XBT sections 2. Equatorial Atlantic Ocean Temperature 3. Near Equatorial Eddies b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
18. Availability Statement: Approved for publication; distribution unlimited.		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 373
		20. Security Class (This Page)	22. Price