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Current Meter, Meteorological, Sea-Level, and Hydrographic Observations for the CASP Experiment off the Coast of Nova Scotia November 1985 to April 1986

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Les rapports techniques peuvent être cités comme des publications complètes. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports techniques sont résumés dans la revue *Résumés des sciences aquatiques et halieutiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les rapports techniques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports en décembre 1981. Une liste complète de ces publications figure dans le volume 39, Index des publications 1982 du *Journal canadien des sciences halieutiques et aquatiques*. La série actuelle a commencé avec la publication du rapport numéro 1 en janvier 1982.

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ABSTRACT

Lively, R.R. 1988. Current meter, meteorological, sea-level and hydrographic observations for the CASP experiment, off the coast of Nova Scotia, November 1985 to April 1986. Can. Tech. Rep. Hydrogr. Ocean Sci. No. 100: vii + 428 p.

This report presents the current meter, bottom pressure and hydrographic data from the Canadian Atlantic Storms Program (CASP) conducted on the Scotian Shelf east of Halifax from November 1985 to April 1986. Auxiliary data in this report includes: meteorological data for Sable Island, Shearwater, Shelburne, Sydney, Western Head and Yarmouth, as well as sea levels for North Sydney, Yarmouth, Halifax and Pt. Tupper from November 1985 to April 1986.

RESUME

Lively, R.R. 1988. Current meter, meteorological, sea-level and hydrographic observations for the CASP experiment, off the coast of Nova Scotia, November 1985 to April 1986. Can. Tech. Rep. Hydrogr. Ocean Sci. No. 100: vii + 428 p.

Ce rapport présente les données de courantomètres, de pression au fond et hydrographiques du Programme Canadien d'étude des tempêtes dans l'Atlantique (CASP) mené sur le plateau Scotian à l'est de Halifax de novembre 1985 à avril 1986. Parmi les données accessoires figurant dans le rapport mentionnons: des données météorologiques pour l'île de Sable, Shearwater, Shelburne, Sydney, Western Head et Yarmouth ainsi que les niveaux de la mer pour North Sydney, Yarmouth, Halifax et Pt. Tupper de novembre 1985 à avril 1986.

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DISCLAIMER

The tidal analysis which produced the constituents in Tables 5, 6, 7 and 8 were degraded by failure to remove the mean value from the time series prior to performing the calculations. This had little or no affect on the current components or ellipse properties since the mean currents were generally of the same order or smaller than the constituent amplitudes. Also this had little or no affect on the pressure consitutents since the mean pressures were generally of the same order or smaller than the constituent amplitudes. However, the amplitudes and phases for the weakest temperature constituents and all the salinity constituents are bogus because of the large mean values for those quantities.

April 12, 1988



Introduction

The Canadian Atlantic Storms Program (CASP) is a cooperative program of the Atmospheric Environment Service (AES) and the Atlantic Oceanographic Laboratory (AOL, now Physical and Chemical Sciences Branch (PCSB), DFO). This report presents the oceanographic data collected as part of the CASP field program in a graphical and statistical form. The field program was conducted from November 22, 1985 to April 11, 1986. Auxiliary data relevant to the experiment are also included in this report. The auxiliary data consist of wind and barometric pressure data from the meteorological stations at Sable Island, Shearwater, Shelburne, Sydney, Western Head and Yarmouth, as well as sea levels for North Sydney, Yarmouth, Halifax, and Pt. Tupper. The above mentioned data cover the same time period as the CASP experiment. MINIMET data and the hydrographic data collected during the mooring and recovery cruises are also presented.

The overall goal for the meteorological component of the experiment was to improve the understanding and predictability of the mesoscale structure of the East Coast storms as well as storms themselves. The overall goal of the oceanographic component was to improve the understanding and predictability of the oceanic response to the synoptic and mesoscale features of Canadian east coast winter storms. A more detailed description of the objectives and operation plans for CASP can be found in several AOL/AES internal documents (AOL/AES internal documents, 1985). Hydrographic data were gathered to define the mass structure of the area to enable numerical modelling and were also used as calibrations for instruments used in the oceanographic component.

The plan for the CASP oceanographic field program was to take measurements for four winter months at 30 sites on the Scotian Shelf.

The allotment of sites for each type of instrument are as follows: 11 sites for the current meters and pressure gauges (Fig. 1), 11 sites for the temporary and permanent tide gauges (Fig. 2), 5 sites for the WOTAN sensors (Fig. 3), 9 sites for the wave buoys (Fig. 4). Schematic diagrams of the current meter and pressure gauge moorings can be found in figures 5 through 8. Performance charts (Fig. 9, 10) show the data return for each deployment. The overall return of useful data from this portion of the experiment was 80%.

Hydrographic surveys were carried out over the eastern half of the Scotian Shelf on both the deployment (85-040) and recovery (86-001) cruises. A total of 89 casts (Table 9) were taken on the deployment cruise and 60 casts (Table 11) were taken on the recovery cruise. Each cruise was spread over 11 days, 85-040 went from November 22, 1985 to December 2, 1985 and 86-001 from April 1, 1986 to April 11, 1986. These data are presented as sections (temperature, salinity, sigma-t) for 4 lines (Halifax, Liscomb, Canso, Louisburg).

Ametek Straza doppler current profile (DCP) data were collected while anchored at site S2 for 14 hours on cruises 85-040 and 86-001. The DCP data, WAVEC and WAVERIDER buoy data, and the WOTAN sensor data are not included herein. The Ametek Straza data were supportive data only and no publications are pending on them. The WOTAN sensor data can be found in two publications, Dobson *et al.* (1987) and Dobson (1987). Data from the WAVERIDER buoys and WAVEC buoys are given by Toulany and MacLeod (1987 a,b).

Mooring Locations

The current meter moorings for the CASP experiment were laid out as shown in Table 1 and Figure 1. An isometric view of this array is shown in

Figure 5. This array contained a total of 33 Aanderaa recording current meters (RCM4), 2 InterOcean Systems electromagnetic current meters (S4), 10 Aanderaa water level recorders (WLR5) and 3 Aanderaa thermistor chains (TR2). The array was sub-divided into 3 lines: the 100 meter isobath line (Fig. 6), Halifax line (Fig. 7) and the Liscomb line (Fig. 8). The Halifax line consisted of sites S1 through S5, 100 meter isobath line consisted of sites S6, S2, S7, S8, S10, and the Liscomb line contained sites S9 through S11. A standard 3 leg current meter mooring system with 1 guard buoy was used at all sites except for S2 and S5. Site S2 had two separate moorings, one with three legs and one with one leg, set inside a triangle of three guard buoys. Site S5 consisted only of a bottom-mounted package containing a pressure gauge and a WOTAN sensor. Aanderaa current meters with savonius rotors were used throughout except that paddle wheel rotors were used on the instruments nearest the surface plus site S2 at 18 m, 23 m, 28 m and 38 m. Also two InterOcean S4 current meters were deployed at site S2 for 2.6 and 5 m beneath guard buoy "C". The three Aanderaa thermistor chains were deployed at sites S2, S4 and S7. All current meter mooring sites had an Aanderaa water level recorder except for site S11.

Seven temporary tide gauges (Table 1, Fig. 2) were delayed along the Nova Scotia coast at Cape Sable Island, River Port, Sambro, Ship Harbour, Liscomb, Louisburg and White Head. Each site contained one Aanderaa water level recorder (WLR5).

WOTAN sensors, (bottom-mounted ambient noise recorder, Sea Data Corporation) were deployed to make wind speed estimates at sites S1, S2, S5, S12 and S13 (Table 1, Fig. 3). Sites S5, S12 and S13 were deployed by B.I.O., while sites S1 and S2 were deployed by Arctic Sciences Limited.

MINIMET meteorological buoys were to be deployed at sites S2 and S52 (Table 1). Instrument 504 was deployed at S2 (Fig. 4), but instrument 508 at S52 had electronic problems from the beginning. As a result, no useful data was obtained at S52 and the buoy was recovered after only two weeks of deployment.

The wave measurement array (Table 1, Fig. 4) consisted of six heave-sensing WAVERIDER buoys, deployed at Sites S21 through S26, and three heave-pitch-roll-sensing WAVEC buoys, deployed at sites S31, S32, S33. A wave data reception station was maintained at Philip Head, Halifax County (44°41.2'N, 63°08.9'W).

TABLE 1
MOORING SUMMARY

Site	Station	Latitude	Longitude	Sounding	Instrument Depth	Serial Number	Type	Duration (Days)
S1	719	44°32.91'N	63°03.55'W	61 m	12 m	5395	ARCM	127.29
		44°33.04'N	63°03.62'W	55 m	25 m	4421	ARCM	127.29
		44°32.84'N	63°03.51'W	63 m	45 m	1286	ARCM	127.29
		44°32.65'N	63°03.94'W	63 m	63 m	109	ATG	127.29
					61 m	1	WN	91.50
S2	720	44°27.41'N	62°59.10'W	100 m	30 m	6411	ARCM	126.00
					31 m	413	TRC	126.04
		44°27.33'N	62°59.07'W	100 m	70 m	5571	ARCM	126.00
		44°27.58'N	62°58.25'W	93 m	100 m	335	ATG	126.00
					91 m	2	WN	34.50
S3	721	44°18.94'N	62°56.19'W	175 m	16 m	1277	ARCM	127.83
		44°18.86'N	62°56.28'W	170 m	50 m	1607	ARCM	127.83
					70 m	5002	ARCM	127.83
		44°19.01'N	62°56.13'W	165 m	110 m	7124	ARCM	127.83
					165 m	181	ATG	127.83
S4	722	44°09.38'N	62°51.50'W	220 m	11 m	3307	ARCM	0.00
					12 m	790	TRC	0.00
		44°09.51'N	62°51.47'W	220 m	70 m	7524	ARCM	127.69
		44°09.26'N	62°51.53'W	220 m	110 m	4406	ARCM	114.10
					220 m	108	ATG	109.52
S6	723	44°21.57'N	63°15.06'W	103 m	14 m	818	ARCM	127.25
		44°21.67'N	63°15.06'W	96 m	26 m	4600	ARCM	127.25
					66 m	7133	ARCM	90.75
		44°21.51'N	63°15.06'W	105 m	105 m	830	ATG	127.29

TABLE 1 (Continued)

Site	Station	Latitude	Longitude	Sounding	Instrument Depth	Serial Number	Type	Duration (Days)
S7	724	44°31.94'N	62°49.31'W	102 m	13 m	820	ARCM	119.40
		44°31.85'N	62°49.47'W	95 m	14 m	407	TRC	128.00
		44°31.97'N	62°49.27'W	104 m	25 m	4271	ARCM	128.00
					65 m	3392	ARCM	128.00
					104 m	224	ATG	128.00
S8	725	44°35.77'N	62°31.33'W	93 m	4 m	5359	ARCM	131.98
		44°35.85'N	62°31.54'W	102 m	32 m	7525	ARCM	131.98
		44°35.74'N	62°31.33'W	90 m	72 m	5358	ARCM	131.98
					90 m	990	ATG	132.00
S9	726	44°52.45'N	61°55.08'W	58 m	9 m	4345	ARCM	133.06
		44°52.49'N	61°55.28'W	60 m	50 m	3298	ARCM	133.06
		44°52.44'N	61°54.99'W	60 m	60 m	342	ATG	133.08
S10	727	44°47.34'N	61°51.41'W	100 m	11 m	6405	ARCM	133.06
		44°47.36'N	61°51.50'W	101 m	31 m	5574	ARCM	7.79
		44°47.28'N	61°51.30'W	103 m	71 m	4604	ARCM	133.06
					103 m	989	ATG	133.08
S11	728	44°35.02'N	61°45.58'W	155 m	11 m	6403	ARCM	133.04
		44°35.07'N	61°45.34'W	155 m	50 m	4351	ARCM	133.04
					70 m	1946	ARCM	133.04
S5	729	43°57.21'N	62°44.30'W	225 m	222 m 225 m	11 282	WN ATG	129.59 129.58
Cape Sable Island	730	43°27.56'N	65°39.19'W	4.57 m	4.57 m	831	ATG	146.96
River Port	731	44°17.42'N	64°20.75'W	6.10 m	6.10 m	991	ATG	147.00

TABLE 1 (Continued)

Site	Station	Latitude	Longitude	Sounding	Instrument Depth	Serial Number	Type	Duration (Days)
Sambro	732	44°28.67'N	63°35.96'W	3.66 m	3.66 m	821	ATG	137.96
Ship Harbour	733	44°47.09'N	62°45.77'W	3.66 m	3.66 m	336	ATG	146.92
Liscomb	734	45°00.39'N	62°00.88'W	4.57 m	4.57 m	345	ATG	0.00
Louisburg	735	45°55.01'N	59°58.29'W	7.62 m	7.62 m	346	ATG	147.00
White Head Harbour	736	45°14.40'N	61°11.36'W	4.57 m	4.57 m	350	ATG	147.04
S12	737	42°57.90'N	62°11.32'W	165 m	163 m	9	WN	133.15
S13	738	44°30.16'N	61°42.10'W	165 m	163 m	12	WN	127.72
S31	739	44°38.81'N	63°07.57'W	20 m	0 m	22018	WC	77.06
S32	740	44°33.97'N	63°04.70'W	50 m	0 m	22020	WC	129.39
S33	741	44°27.64'N	62°57.96'W	100 m	0 m	22023	WC	64.00 64.00
S24	742	44°21.87'N	63°15.22'W	108 m	0 m	68241	WR	127.78
S25	743	44°30.64'N	63°03.23'W	83 m	0 m	68035	WR	128.20
S21	744	44°35.82'N	63°08.75'W	37 m	0 m	67763	WR	130.54
S22	745	44°37.27'N	63°06.92'W	37 m	0 m	67789 68242	WR WR	77.00 44.00
S23	746	44°37.92'N	63°03.64'W	37 m	0 m	67791	WR	111.00

TABLE 1 (Continued)

Site	Station	Latitude	Longitude	Sounding	Instrument Depth	Serial Number	Type	Duration (Days)
S26	747	44°32.03'N	62°49.75'W	92 m	0 m	68037	WR	129.34
S2	748	44°27.00'N	62°59.13'W	98 m	0 m	504	MM	54.00
S52	749	42°57.67'N	62°10.81'W	175 m	0 m	508	MM	0.00
S2	757	44°27.55'N	62°59.27'W	108 m	18 m 23 m 28 m 38 m	5577 1902 5001 7127	ARCM ARCM ARCM ARCM	126.06 126.06 126.06 126.06
S2	758	44°27.66'N	62°58.48'W	96 m	2.6 m 5 m	4410744 4430830	S4 S4	131.68 0.00

ARCM = AANDERAA CURRENT METER

ATG = AANDERAA TIDE GAUGE

WN = WOTAN

WC = WAVEC BUOY

S4 = S4 CURRENT METER

MM = MINIMET BUOY

WR = WAVE RIDER BUOY

TRC = THERMISTOR CHAIN

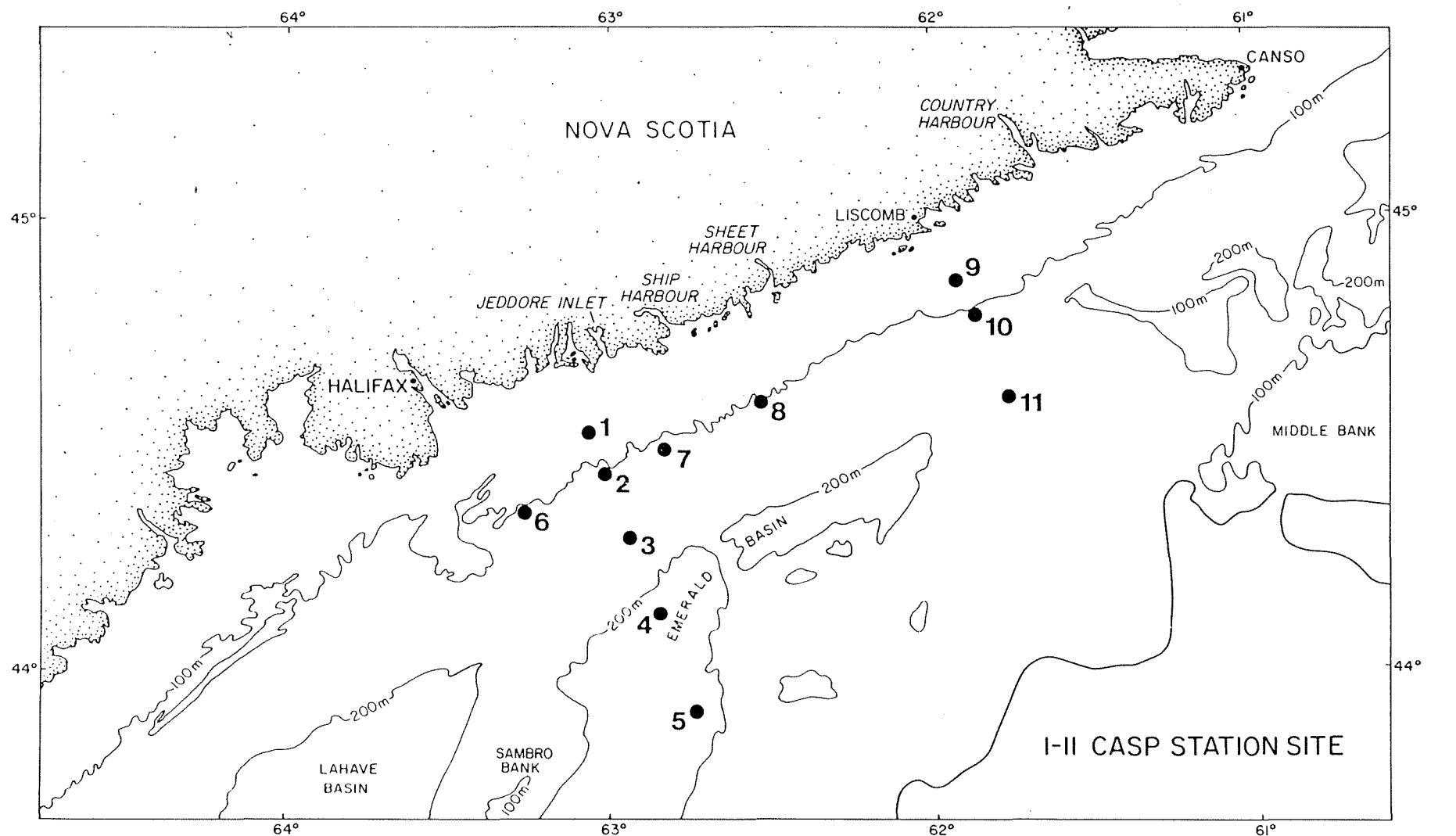


Figure 1 Location of the current meter and pressure gauge array moored off the Nova Scotia Coast. CASP November 1985 to April 1986.

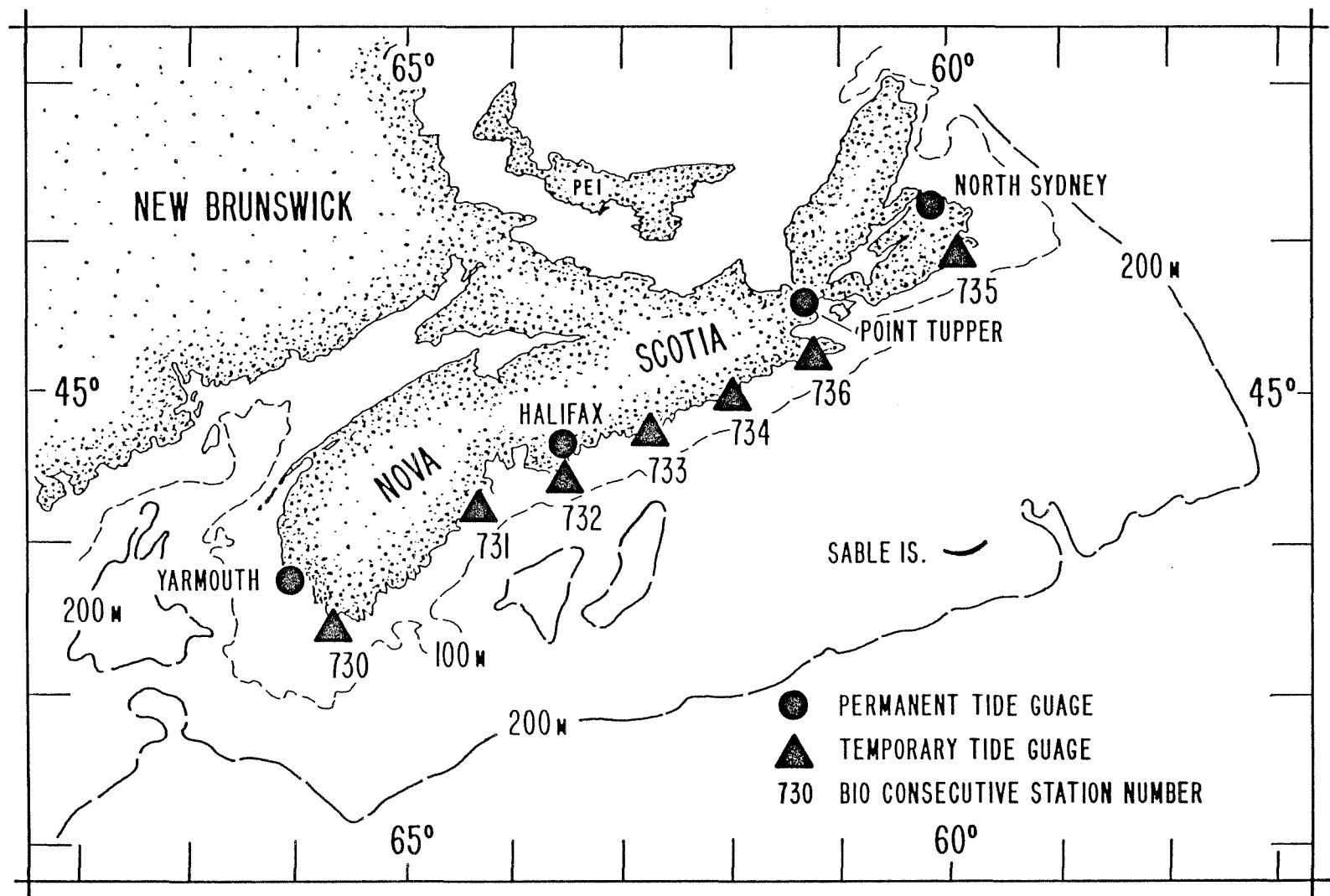


Figure 2 Locations of the temporary coastal tide gauges and Canadian Hydrographic Service permanent tide gauges around the Nova Scotia Coast. CASP November 1985 to April 1986.

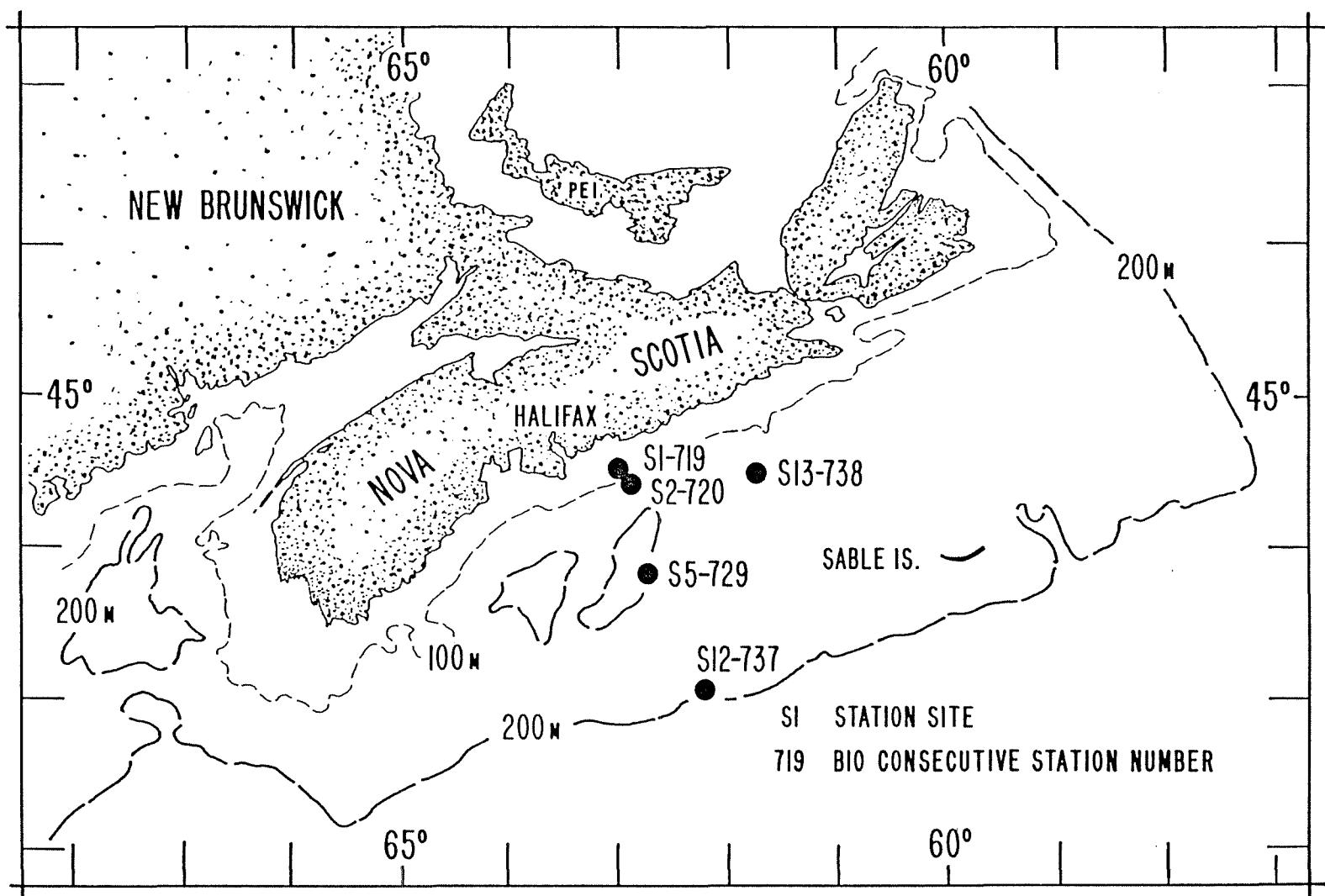


Figure 3 Location of the WOTAN sensors moored off Nova Scotia Coast. CASP November 1985 to April 1986.

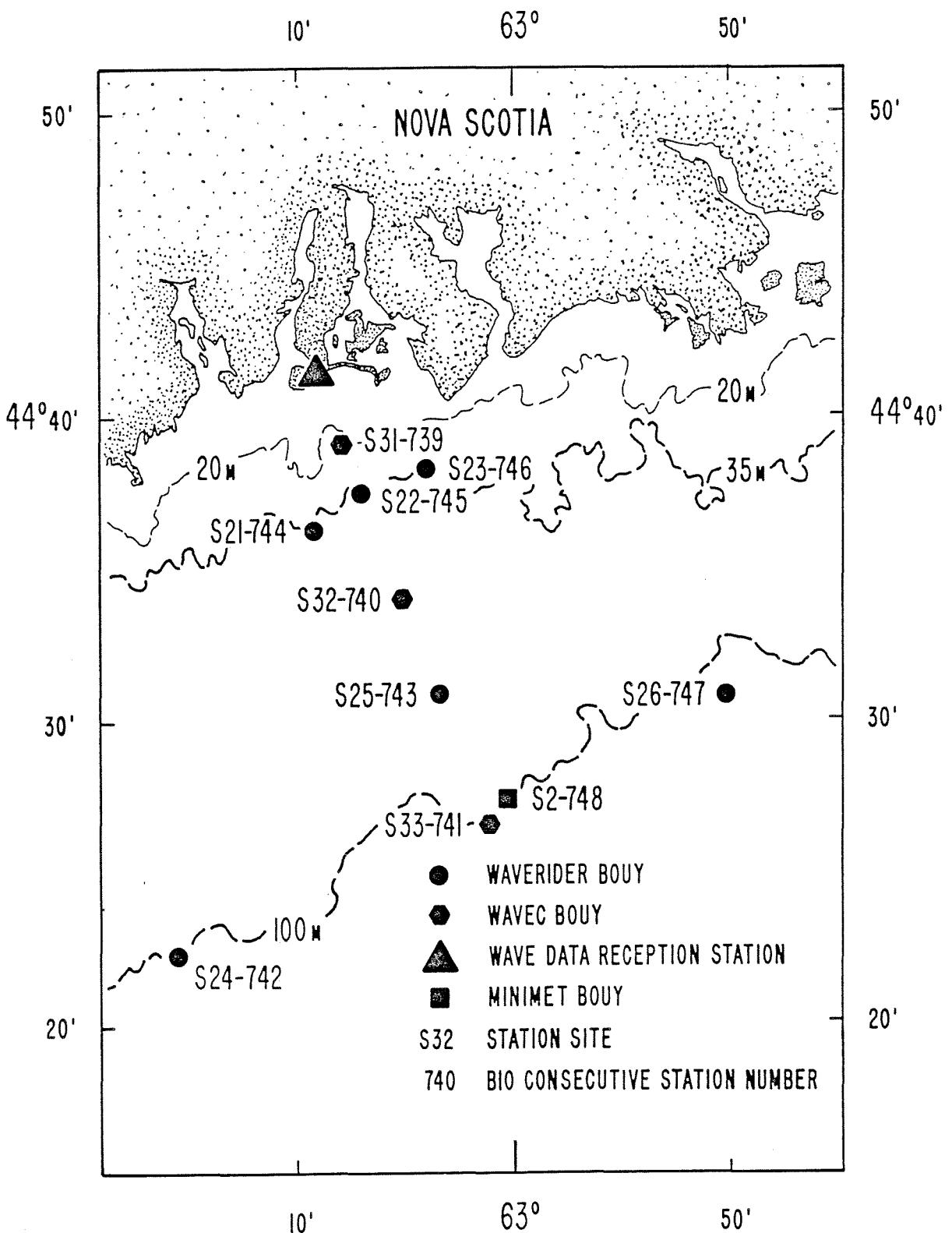


Figure 4 Location of the wave buoys moored off the Nova Scotia Coast. CASP November 1985 to April 1986.

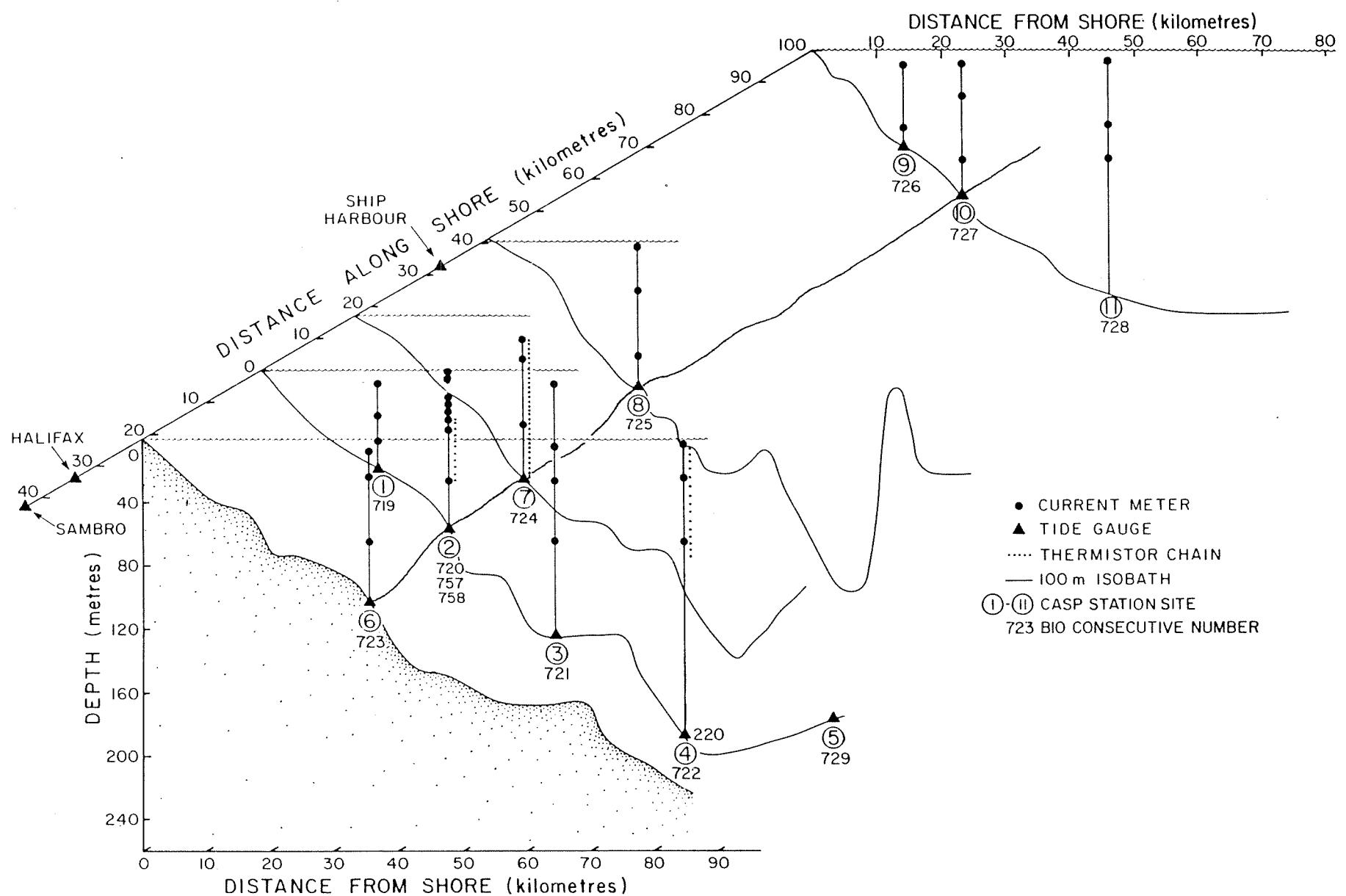


Figure 5 Isometric view of current meter and pressure gauge mooring array. CASP November 1985 to April 1986.

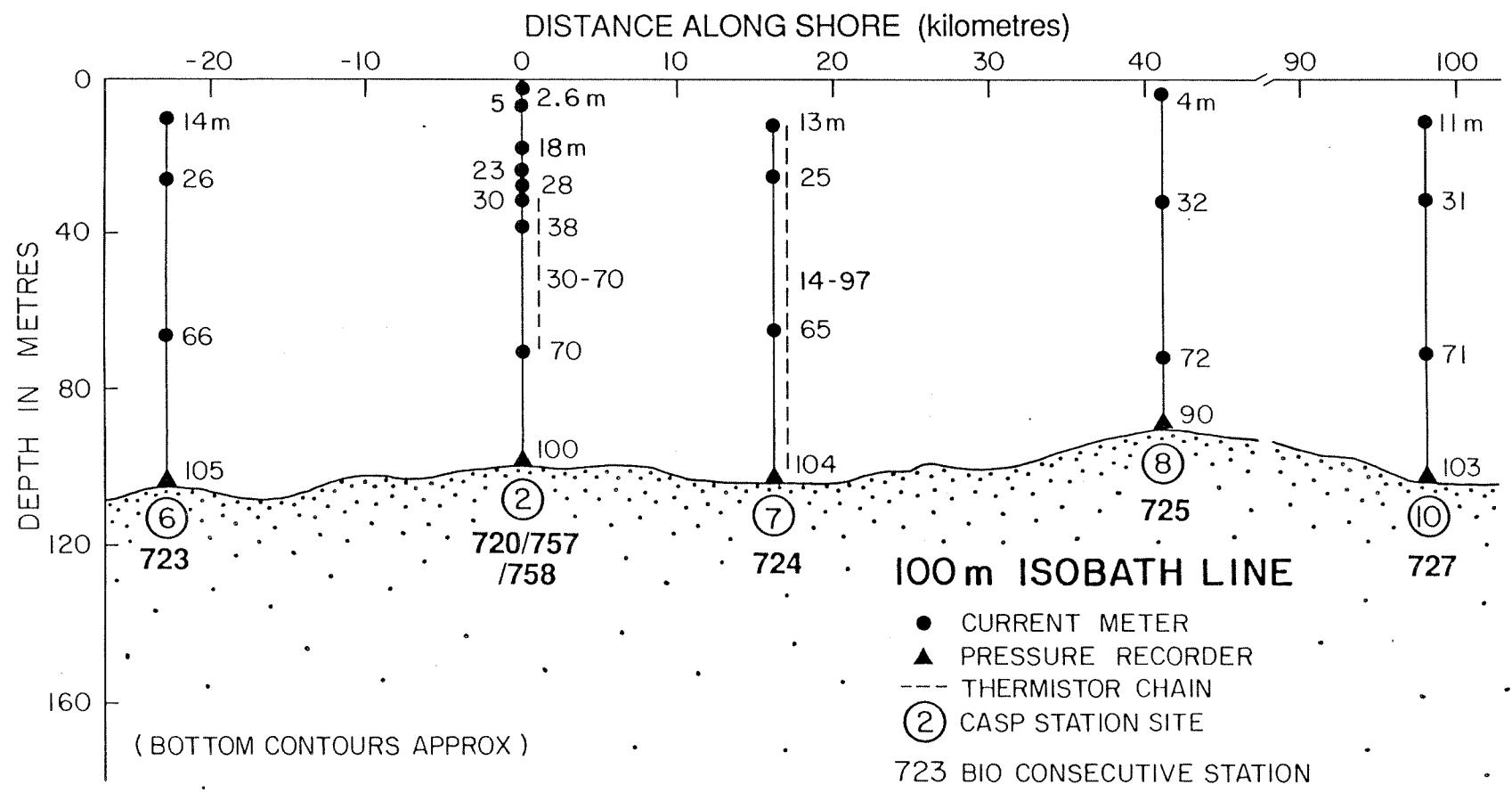


Figure 6 Profile of the 100 Meter Isobath Mooring Line
CASP November 1985 to April 1986

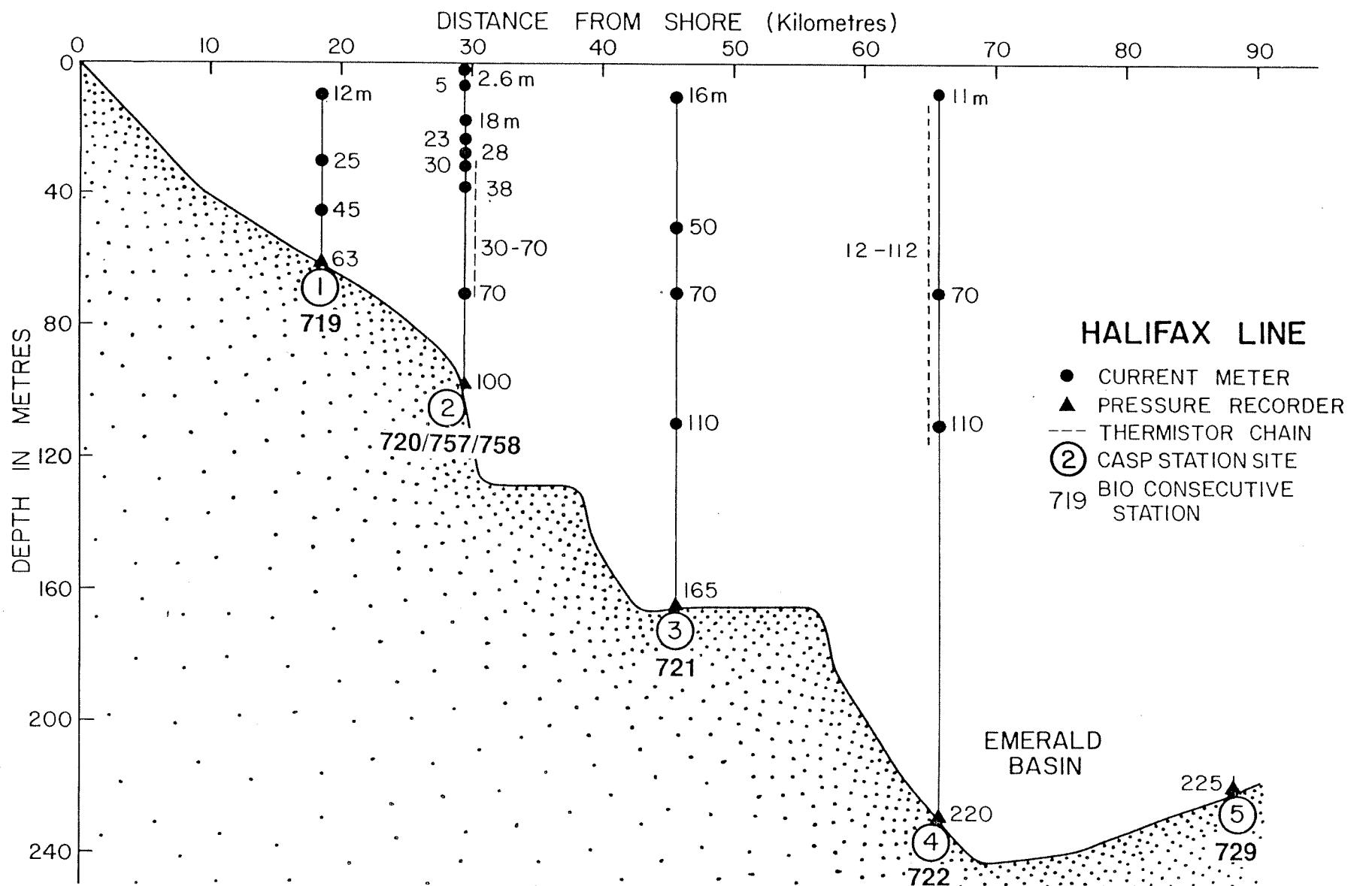


Figure 7 Profile of the Halifax Mooring Line
CASP November 1985 to April 1986

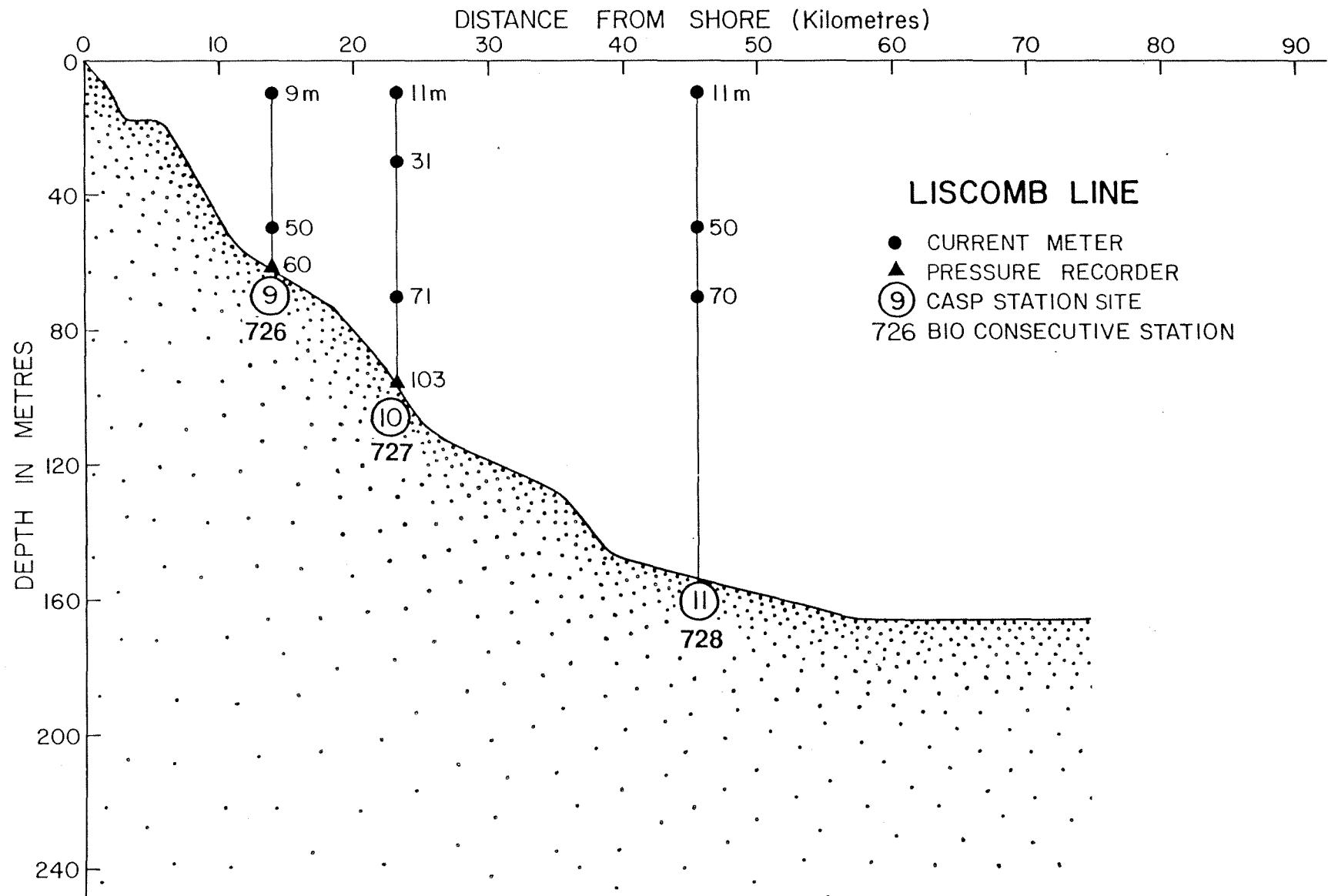
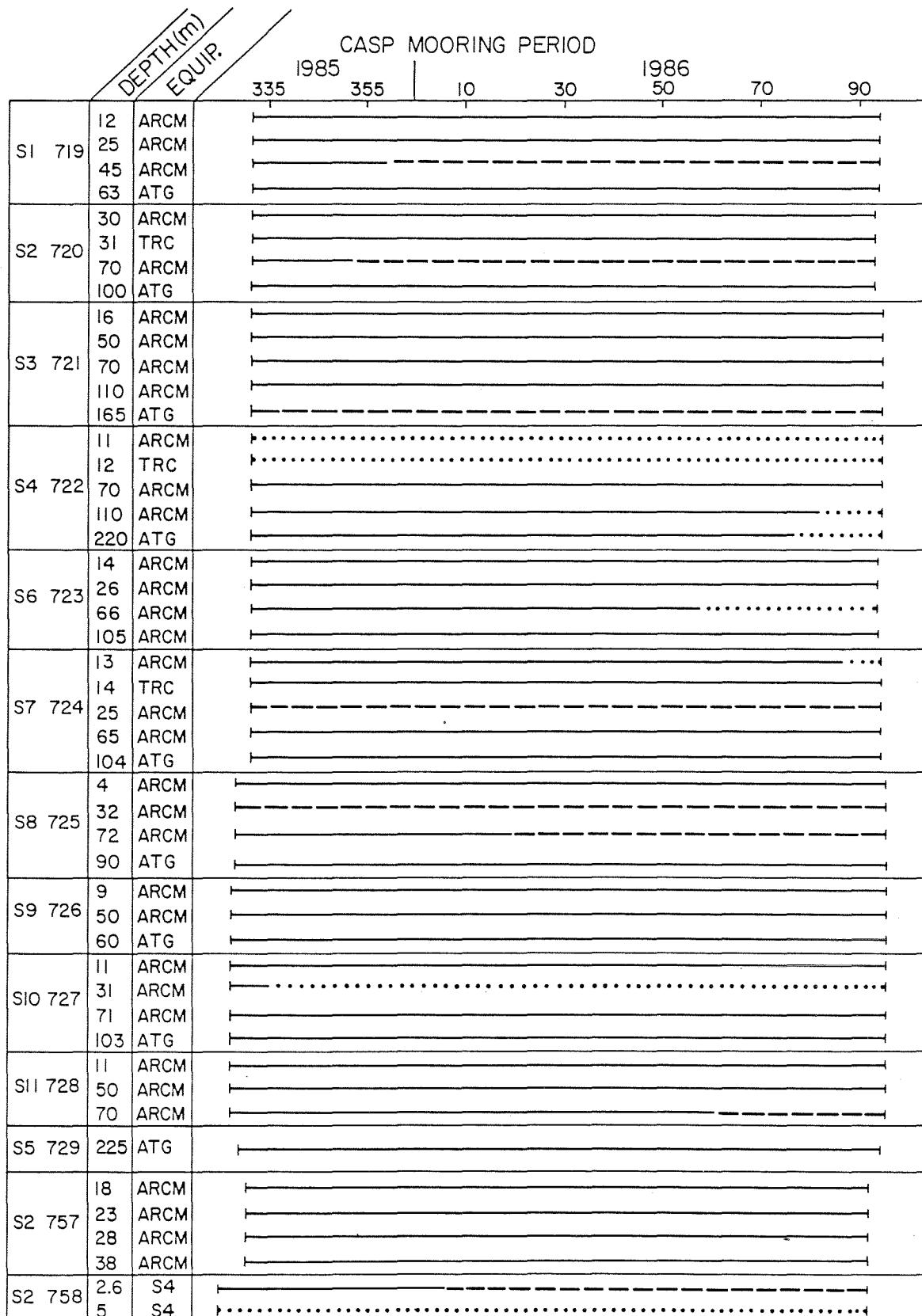


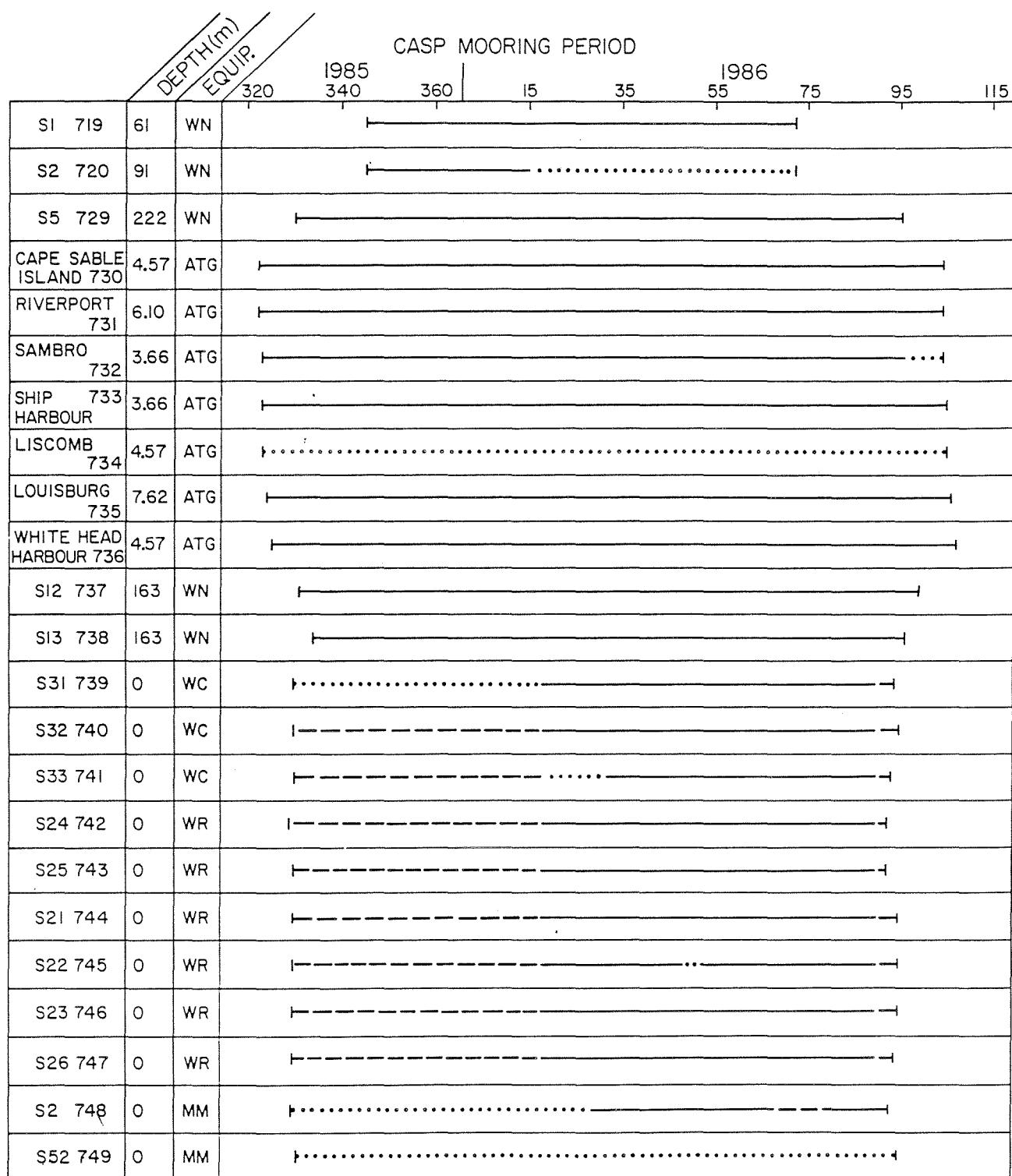
Figure 8 Profile of the Liscomb Mooring Line
CASP November 1985 to April 1986



ARCM AANDERAA CURRENT METER
 ATG AANDERAA TIDE GAUGE
 S4 S4 CURRENT METER
 TRC THERMISTOR CHAIN

 USEFUL DATA
 PARTIAL DATA
 NO DATA

Figure 9 Performance chart for current meters and tide gauges moored off the Nova Scotia Coast. CASP November 1985 to April 1986.



ATG AANDERAA TIDE GAUGE

— USEFUL DATA

WN WOTAN

— - - PARTIAL DATA

WC WAVEC BUOY

..... NO DATA

MM MINIMET BUOY

WR WAVE RIDER BUOY

Figure 10 Performance chart for temporary coastal tide gauges, Canadian Hydrographic Service permanent tide gauges, and wave instruments moored off the Nova Scotia Coast. CASP November 1985 to April 1986.

Hydrographic Locations

Hydrographic data were collected on the two CASP cruises (85-040, 86-001) of the CSS Dawson. These data were collected from four cross-shelf sections, 1 anchor station, and near all the current meter mooring sites on both the mooring and recovery cruises (Table 1B). The anchor station near site S2 was maintained for 14 hours and casts were taken at a rate of one per hour. The casts taken near the current meter sites were used as temperature and salinity calibrations for the current meters (Table 2A).

TABLE 1BCOMPARISON OF HYDROGRAPHIC STATION LOCATIONS

<u>CRUISE 85-040</u>				<u>CRUISE 86-001</u>			
<u>STN.</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>CODE</u>	<u>STN.</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	
1	44° 10.07'N	62° 51.60'W	M	21	44° 09.46'N	62° 51.59'W	
2	44° 18.89'N	62° 56.43'W	M	20	44° 18.91'N	62° 52.86'W	
3	44° 27.59'N	62° 59.09'W	M				
4	44° 32.76'N	63° 04.18'W	M	2	44° 32.51'N	63° 03.95'W	
5	44° 52.11'N	61° 54.67'W	M				
6	44° 47.90'N	61° 51.70'W	M				
<hr/>							
7	44° 41.92'N	61° 48.73'W	L				
8	44° 36.94'N	61° 45.79'W	L,M				
9	44° 30.01'N	61° 41.16'W	L				
10	44° 52.24'N	61° 55.24'W	L,M				
11	44° 48.03'N	61° 51.61'W	L,M				
12	44° 41.99'N	61° 48.65'W	L				
13	44° 37.21'N	61° 45.50'W	L,M				
14	44° 29.94'N	61° 41.12'W	L				
15	44° 23.07'N	61° 37.65'W	L				
16	44° 16.52'N	61° 33.79'W	L				
17	44° 09.56'N	61° 29.99'W	L				
18	44° 02.78'N	61° 25.93'W	L				
19	43° 55.59'N	61° 21.88'W	L				
<hr/>							
20	44° 39.85'N	62° 17.19'W	M				
<hr/>							
21	42° 57.47'N	62° 11.37'W	H	54	42° 53.06'N	62° 08.03'W	
22	43° 07.03'N	62° 16.03'W	H	53	42° 57.90'N	62° 11.47'W	
23	43° 15.93'N	62° 21.00'W	H	55	43° 07.00'N	62° 15.99'W	
24	43° 25.88'N	62° 26.09'W	H	52	43° 16.02'N	62° 21.02'W	
25	43° 34.96'N	62° 31.11'W	H	51	43° 26.05'N	62° 25.90'W	
26	43° 43.02'N	62° 36.13'W	H	50	43° 34.19'N	62° 30.87'W	
27	43° 50.03'N	62° 40.14'W	H	49	43° 43.14'N	62° 35.96'W	
28	43° 56.97'N	62° 44.11'W	H,M	48	43° 49.99'N	62° 39.77'W	
29	44° 08.90'N	62° 50.94'W	H,M	56	43° 56.99'N	62° 44.07'W	
30	44° 18.89'N	62° 57.08'W	H,M	57	44° 08.97'N	62° 51.00'W	
31	44° 27.03'N	62° 59.51'W	H,M	58	44° 18.96'N	62° 56.93'W	
32	44° 31.94'N	63° 03.93'W	H	59	44° 26.89'N	63° 00.07'W	
33	44° 08.90'N	62° 51.62'W	M	60	44° 31.97'N	63° 03.96'W	
<hr/>							
34	44° 18.35'N	62° 56.51'W	M				
35	44° 26.52'N	62° 38.99'W	M				
36	44° 32.29'N	63° 03.74'W	M				
<hr/>							
37	44° 27.47'N	62° 56.56'W	A,M	3	44° 26.80'N	62° 59.03'W	
38	44° 27.47'N	62° 56.56'W	A,M	4	44° 26.85'N	62° 59.02'W	
39	44° 27.47'N	62° 56.56'W	A,M	5	44° 26.83'N	62° 59.04'W	
40	44° 27.48'N	62° 56.56'W	A,M	6	44° 26.83'N	62° 59.04'W	
41	44° 27.48'N	62° 56.55'W	A,M	7	44° 26.84'N	62° 59.04'W	
42	44° 27.48'N	62° 56.55'W	A,M	8	44° 26.85'N	62° 59.04'W	
43	44° 27.47'N	62° 56.57'W	A,M	9	44° 26.85'N	62° 59.04'W	
44	44° 27.47'N	62° 56.58'W	A,M	10	44° 26.85'N	62° 59.04'W	
45	44° 27.48'N	62° 56.57'W	A,M	11	44° 26.84'N	62° 59.04'W	

TABLE 1B (continued)

<u>CRUISE 85-040</u>				<u>CRUISE 86-001</u>		
<u>STN.</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>CODE</u>	<u>STN.</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
46	44° 27.48'N	62° 56.57'W	A,M	12	44° 26.80'N	62° 58.97'W
47	44° 27.48'N	62° 56.56'W	A,M	13	44° 26.79'N	62° 58.97'W
48	44° 27.49'N	62° 56.55'W	A,M	14	44° 26.80'N	62° 58.97'W
49	44° 27.48'N	62° 56.54'W	A,M	15	44° 26.81'N	62° 58.95'W
50	44° 27.48'N	62° 56.55'W	A,M	16	44° 26.80'N	62° 58.93'W
51	44° 27.49'N	62° 56.54'W	A,M	17	44° 26.79'N	62° 58.94'W
<hr/>						
52	44° 52.27'N	61° 54.85'W	L,M	22	44° 52.23'N	61° 54.97'W
53	44° 46.97'N	61° 51.55'W	L,M	23	44° 47.97'N	61° 51.19'W
54	44° 42.17'N	61° 48.47'W	L	24	44° 42.01'N	61° 48.19'W
55	44° 34.69'N	61° 45.39'W	L,M	25	44° 37.05'N	61° 44.96'W
56	44° 30.16'N	61° 42.10'W	L	26	44° 30.10'N	61° 41.01'W
57	44° 21.05'N	61° 36.11'W	L	27	44° 20.92'N	61° 36.01'W
58	44° 11.72'N	61° 31.10'W	L	28	44° 12.06'N	61° 31.01'W
59	44° 02.50'N	61° 25.84'W	L	29	44° 02.00'N	61° 26.03'W
60	43° 53.19'N	61° 21.10'W	L	30	43° 53.05'N	61° 21.21'W
61	43° 43.84'N	61° 16.05'W	L	31	43° 44.06'N	61° 15.98'W
62	43° 34.44'N	61° 10.62'W	L	32	43° 35.00'N	61° 09.62'W
63	43° 25.37'N	61° 05.55'W	L	33	43° 25.12'N	61° 05.05'W
64	43° 16.10'N	61° 00.10'W	L	34	43° 16.04'N	61° 00.19'W
<hr/>						
65	44° 08.22'N	60° 21.78'W	C	35	44° 09.03'N	60° 21.97'W
66	44° 17.38'N	60° 26.85'W	C	36	44° 17.95'N	60° 26.86'W
67	44° 26.74'N	60° 32.00'W	C	37	44° 26.96'N	60° 31.72'W
68	44° 35.73'N	60° 37.22'W	C	38	44° 35.94'N	60° 36.80'W
69	44° 45.07'N	60° 42.55'W	C	39	44° 44.95'N	60° 41.98'W
70	44° 54.04'N	60° 47.82'W	C	40	44° 54.00'N	60° 48.14'W
71	45° 03.11'N	60° 54.03'W	C	41	45° 03.13'N	60° 52.94'W
72	45° 07.51'N	60° 55.51'W	C	42	45° 07.95'N	60° 54.74'W
73	45° 12.08'N	60° 58.04'W	C	43	45° 11.88'N	60° 57.89'W
<hr/>						
74	45° 54.47'N	59° 45.50'W	B	44	45° 55.28'N	59° 44.63'W
75	45° 50.16'N	59° 43.30'W	B	45	45° 50.03'N	59° 43.00'W
76	45° 45.15'N	59° 40.48'W	B	46	45° 44.85'N	59° 39.85'W
77	45° 35.88'N	59° 34.70'W	B	47	45° 36.18'N	59° 34.94'W
78	45° 26.52'N	59° 28.97'W	B			
79	45° 16.77'N	59° 23.47'W	B			
80	45° 07.59'N	59° 18.06'W	B			
81	44° 57.86'N	59° 12.68'W	B			
82	44° 48.16'N	59° 07.46'W	B			
83	44° 37.90'N	59° 01.37'W	B			
84	44° 28.97'N	58° 56.21'W	B			
85	44° 19.17'N	58° 51.12'W	B			
86	44° 09.45'N	58° 45.20'W	B			
87	44° 00.11'N	58° 40.02'W	B			
<hr/>						
88	44° 36.11'N	62° 31.75'W	M	19	44° 35.79'N	62° 37.99'W
89	44° 31.61'N	62° 49.94'W	M	18	44° 31.63'N	62° 49.97'W
			M	1	44° 21.95'N	63° 15.36'W

CODES

H = Halifax Line
 L = Liscomb Line
 C = Canso Line

B = Louisburg Line
 A = Anchor Station
 M = Current Meter Mooring Sites

Data Accuracy

The factory quoted accuracies for the Aanderaa and S4 current meters plus the Aanderaa tide gauges, Aanderaa thermistor chains and the MINIMET meteorological buoy are as follows:

AANDERAA CURRENT METER (RCM4)

CURRENT SPEED	- range 2.5 to 250 cm/sec - accuracy of ± 1 cm/sec or $\pm 2\%$ of actual speed variation whichever is greater - threshold 1.5 cm/sec
CURRENT DIRECTION	- range 0° to 360° - accuracy $\pm 5^\circ$ with speed 5-100 cm/sec - resolution 0.35° - tilt 12° from horizontal
CRYSTAL TIMER	- accuracy ± 2 sec/day within 0°C to 20°C
TEMPERATURE	- range -2.46°C to 21.48°C - accuracy $\pm 0.15^\circ\text{C}$ - resolution 0.1% of range - response time 12 seconds
CONDUCTIVITY	- range 0 to 70 mmho/cm - calibration accuracy ± 0.025 mmho/cm - resolution 0.1% of range

S4 CURRENT METER

CURRENT SPEED	- range 0-350 cm/sec - accuracy 2% reading ± 1 cm/sec - resolution 0.2 cm/sec
COMPASS	- range 0° to 360° - accuracy 2° - resolution 0.5° - tilt $\pm 25^\circ$
QUARTZ OSCILLATOR TIMER	- non-restricted lithium battery with a life of 5 years - accuracy 12 min./year
TEMPERATURE	- range -2.5°C to 36°C - accuracy $\pm 0.1^\circ\text{C}$ - resolution 0.05°C - response time of 1 minute
CONDUCTIVITY	- range 1-70 ms/cm - accuracy ± 0.20 ms/cm - resolution 0.01%

AANDERAA TIDE GAUGE

PRESSURE	- range 0 to 400 PSI - accuracy 0.01% of range - resolution 0.001% of range
TEMPERATURE	- range -5° to 35°C - accuracy 0.05°C - resolution 0.01%
CRYSTAL TIMER	- accuracy \pm 2 sec/day within 0°C to 20°C

AANDERAA THERMISTOR CHAIN (TR2)

TEMPERATURE	- range -2.46°C to 21.48°C - accuracy \pm 0.15°C - resolution 0.1% of range - response time 3.5 minutes
CRYSTAL TIMER	- accuracy \pm 2 sec/day within 0°C to 20°C

MINIMET METEOROLOGICAL BUOY

WIND SPEED	- range 0.2 to 64 m/sec - accuracy \pm 0.1 m/sec
WIND DIRECTION	- range 0° to 360° in steps of 10° - accuracy \pm 5°
GIMBALLED FLUX GATE COMPASS	- accuracy \pm 3° - tilt \pm 0.1°C
AIR TEMPERATURE	- range -20°C to 30°C - accuracy \pm 0.1°C
WATER TEMPERATURE	- range -2°C to 20°C - accuracy \pm 0.1°C

Prior to the CASP experiment, the Aanderaa current meters were fitted with the new Aanderaa 8000 series conductivity sensors. Salinity comparisons were made between the Aanderaa current meters and nearby CTD stations (Table 2A). It was found that the average drift for these new 8000 series sensors was between \pm 0.17‰. These differences were not applied to the data in this report. The Aanderaa current meters were also calibrated for temperature and conductivity in-house before and after

deployment. The temperature calibrations were found to be within the manufacturer's specifications, as were all but six of the conductivity sensors. As a result, a revised set of calibration coefficients was derived (Table 2B). However, the revised coefficients were not known until after the data from these six instruments were processed, and the data presented here from these instruments were processed using the manufacturer's coefficients.

A compass swing was done before each Aanderaa current meter was deployed. Each instrument was placed on a compass swing table and rotated both clockwise and counterclockwise in 10.25° increments through a complete revolution. The readings for clockwise and counterclockwise revolutions were averaged to produce the calibration points to correct the direction readings. Deviations of order $\pm 3^{\circ}$ were applied in processing the records.

Compass swings for the S4 current meters were done in the same manner as the Aanderaa current meters before deployment and it was found that the compass reacted within the manufacturer's specifications. Calibration of the rate sensors from the S4 current meters also fell within the manufacturer's specifications. Attempts were made in-house to calibrate the S4 current meters for temperature and conductivity before deployment, but the methods used at that time were found to be inadequate. The S4 current meter data were therefore processed using the manufacturer's calibration coefficients. A more detailed calibration of the S4's temperature and conductivity sensors was done in January, 1987 (Boyce, 1987) and it was found that the conductivity of the S4 current meters had an error of $-0.06^{\circ}/oo$ at $10^{\circ}C$ after 32 days. Salinity comparisons were made between the S4 current meters and nearby CTD stations (Table 2A) and a large drift in the salinity measurements was found. Therefore the salinity data from the S4 current meters shown herein should be used with caution.

The Aanderaa tide gauge pressure sensors were calibrated both before and after deployment, at several temperatures. Each temperature sensor was calibrated before deployment and was found to be within the manufacturer's specifications. The Aanderaa thermistor chains were calibrated before deployment and all temperature sensors were found to be within the manufacturer's specifications. Prior to deployment the MINIMET buoy anemometer was operated in proximity to the AES anemometer at CFB Shearwater for the purpose of intercomparison. The air temperature sensor on the buoy was calibrated against a laboratory mercury thermometer. Following recovery, the anemometer speed was calibrated against a tachometer, the air temperature sensor was recalibrated, and a compass swing of the buoy was performed. The anemometer and temperature sensors were found to be within the manufacturer's specifications. However, an error was found in the wind direction during calibration. The MINIMET buoy data were corrected by adding 25° to the wind direction. The corrected wind directions are now consistent with those observed at Martinique Beach (at the shore end of the Halifax current meter line).

The CTD (Guildline digital CTD) was calibrated by mounting two 1.7 litre Niskin bottles on the rosette cage of the CTD on each cast. A pinger was mounted at the bottom of the rosette cage which allowed the water column to be sampled to within a few meters of the bottom. The CTD was lowered at a speed of 1 m/s and the Niskin bottles were tripped near the bottom where the water properties were uniform. Temperature calibrations were made using the Richter and Wiese, Yashino, or Kurt Gohla reversing thermometers attached to one of the Niskin bottles. The salinity determinations were made with an "Auto-Lab" inductive salinometer (Guildline Instruments, 1974) which is considered accurate to $\pm 0.004^{\circ}/oo$. The

thermometers are considered accurate to $\pm 0.02^{\circ}\text{C}$. A mean difference was calculated from the temperature and salinity calibrations and used in processing the data (Tables 10, 12). The calibration values used to process the CTD data are as follows:

Cruise	Casts	Pressure (DBAR)	Temperature ($^{\circ}\text{C}$)	Salinity ‰
85-040	1-89	2.775	+0.001	+0.0006
86-001	1-16	0	-0.014	-0.0650
	17	0	-0.093	+0.0340
	18-45	0	0.000	-0.0380
	46-60	0	-0.780	+0.6600

TABLE 2A
FIELD CALIBRATIONS FOR CASP SALINITY MEASUREMENTS

SITE STATION DEPTH	INSTRUMENT NUMBER	NOVEMBER 1985				APRIL 1986			
		S _{CM}	S _{CTD}	ΔS(X)	±σ(✓)	S _{CM}	S _{CTD}	ΔS(X)	±σ(✓)
S1 (719,012)	5395	30.75	30.57	0.18	±.05 !	31.41	31.28	0.13	±.05
(719,025)	4421	30.79	30.58	0.21	±.05 !	31.70	31.33	0.37	±.05
(719,045)	1286	31.27	30.63	0.64	±.25 !	32.20	31.85	0.35	±.05
S2 (720,070)	5571	31.91	31.74	0.17	±.25 !	32.35	32.25	0.10	±.12
S3 (721,016)	1277	30.66	30.64	0.02	±.12	31.22	31.42	-0.20	±.18 !
(721,050)	1607	31.61	30.15	1.46	±.12	32.03	32.01	0.02	±.13 !
(721,070)	5002	32.61	32.12	0.49	±.10	32.45	32.15	0.30	±.20 !
(721,110)	7124	33.05	32.84	0.21	±.15	34.31	33.66	0.65	±.60 !
S4 (722,070)	7524	32.92	32.71	0.21	±.10	33.17	32.93	0.24	±.15
(722,110)	4406	33.82	33.53	0.29	±.10	34.75	34.58	0.17	±.25 !
S6 (723,014)	818	31.20	30.58	0.62	±.05 *	31.33	31.24	0.09	±.10
(723,026)	4600	30.61	30.58	0.03	±.05 *	31.61	31.28	0.33	±.25
(723,066)	7133	31.86	31.63	0.23	±.25 *	32.65	32.21	0.44	±.25 !
S7 (724,013)	820	30.77	30.62	0.15	±.05	31.25	31.21	0.04	±.25 !
(724,025)	4271	30.76	30.62	0.14	±.05	31.45	31.24	0.21	±.20
(724,065)	3392	31.27	31.10	0.17	±.15	32.41	32.13	0.28	±.10
S8 (725,004)	5359	30.70	30.66	0.04	±.05	31.25	31.58	-0.33	±.10 !*
(725,032)	7525	30.77	30.66	0.11	±.05	31.69	31.66	0.03	±.15 !*
(725,072)	5358	31.50	31.23	0.27	±.10	32.25	32.18	0.07	±.50 !*
S9 (726,009)	4345	30.38	30.23	0.15	±.05	31.01	30.98	0.03	±.05
		30.64	30.58	0.06	±.05				
		31.02	30.78	0.24	±.10	32.02	31.92	0.10	±.05
		30.85	30.72	0.13	±.10				

TABLE 2A (Cont'd)

SITE STATION DEPTH	INSTRUMENT NUMBER	NOVEMBER 1985				APRIL 1986			
		S _{CM}	S _{CTD}	ΔS (X)	± σ (✓)	S _{CM}	S _{CTD}	ΔS (X)	± σ (✓)
S10(727,011)	6405	30.55	30.64	-0.09	±.05	31.28	31.21	0.07	±.10
		30.71	30.49	0.22	±.05				
	(727,031)	30.73	30.68	0.05	±.05	**	31.78	**	**
		30.77	30.63	0.14	±.05				
S11(728,011)	4604	31.94	31.73	0.21	±.20	32.42	32.16	0.26	±.15
		31.94	31.69	0.25	±.10				
	(728,050)	31.75	31.64	0.11	±.10	31.70	31.68	0.02	±.10 !
		31.87	31.76	0.11	±.20	32.08	32.16	-0.08	±.10 !
S2 (757,018)	(728,070)	33.37	32.88	0.49	±.20	32.47	32.39	0.08	±.10 !
		1946							
	(757,028)	30.64	30.55	0.09	±.05 !	31.38	31.26	0.12	±.05
		30.72	30.55	0.17	±.05 !	31.51	31.28	0.23	±.10
S2 (758,2.6)	(757,038)	30.79	30.55	0.24	±.25 !	31.77	31.37	0.40	±.25
		30.80	30.58	0.22	±.12	26.00	31.23	-5.23	±.10
	4410744	31.40	30.51	(0.89)	±.12				

(X) ΔS = S_{CM} - S_{CTD}

(✓) ± σ = ESTIMATED ACCURACY OF COMPARISON

! Timing questionable, may be a different water mass

* Distance questionable, may be a different water mass

** Not enough data in S_{CM} to determine an estimated salinity

○ Significant offset exceeds 0.5‰

TABLE 2B

CASP LABORATORY CALIBRATIONS FOR NEW AANDERAA CONDUCTIVITY SENSORS (8000 SERIES)

INSTRUMENT NUMBER	SENSOR NUMBER	BATH TEMPERATURE/SALINITY ERROR					REVISED CALIBRATION COEFFICIENTS [@]	
		0°	5°	10°	15°	20°	A	B
4604	8344	0.17	0.14	0.12	0.11	0.08	0.04397	23.595
7133	8364	0.16	0.13	0.11	0.06	0.00	0.04401	23.347
1607*	8362	0.35	0.34	0.31	0.27	0.24	0.04366	23.309
4345*	8116	0.20	0.18	0.18	0.16	0.18	0.04545	24.356
4351	8348	-0.10	-0.13	-0.14	-0.18	-0.21	0.04459	23.820
5395	8346	0.13	0.12	0.09	0.09	0.06	0.04412	23.640

* BROKEN GLASS LINER IN CONDUCTIVITY CELL

@ AANDERAA CALIBRATION FORMULA: CONDUCTIVITY = A*N+B, N = RAW COUNT

NOTE: The revised calibration coefficients are only to be used with the raw data.

Data Processing

Data that were recorded by the Aanderaa current meters were translated to computer-compatible tape. The encoder numbers were converted to physical units using the calibration constants determined by the predeployment calibrations at BIO. The local magnetic variation was taken from chart 5375 (Haslan, 1981). The temperature, conductivity and pressure values were used to calculate salinity using the UNESCO formula (Perkin and Lewis, 1980). No account was taken of the mismatch between temperature and conductivity sensor responses. Potential density anomaly was calculated from temperature, salinity and pressure using the UNESCO formula.

Data recorded by the S4 current meter were dumped from the internal solid-state memory to a floppy disk via a microcomputer. The data were then transferred from the floppy disk to the BIO mainframe computer (Control Data CYBER). Special record blocks and inter-record marks were then removed, and the raw data converted to physical units by applying instrument calibration factors supplied by the manufacturer. The data were then converted to the BIO CMSYST format. Temperature, conductivity and pressure values were used to calculate salinity and potential density using the UNESCO formulas.

Data that were recorded by the Aanderaa tide gauges were translated to computer-compatible tape. The encoder numbers were converted to physical units by using the calibration constants determined from the predeployment calibrations. An arbitrary low water datum is selected by reducing the entire time series by the lowest pressure encountered. The tide gauge data are converted to the CMSYST format enabling further analyses to be done. A more detailed explanation of the procedures used to process the tide gauge and Aanderaa current meters can be found in the publication of the initial Cape Sable experiment data (Lively, 1984).

Data that were recorded by the Aanderaa thermistor chains were translated to computer-compatible tape. The encoder numbers were converted to physical units using programs found in the CMSYST package. The calibration coefficients used were supplied by the manufacturer.

During the CASP experiment the MINIMET buoys recorded their data on cassette tapes, after their recovery these cassette tapes were translated to computer-compatible tape. The raw data records were then reformatted, converted to physical units and put into the CMSYST format using the manufacturer's coefficients.

Raw data (30-minute and 10-minute intervals) for all of the above instruments were processed to 1-hour interval using a boxcar filter which produces a three or seven point running mean depending on the interval of the raw data. The filtered data for 6-hour intervals were created from the 1-hour intervals using a cartwright low-pass filter with 129 weights and a cut-off frequency of 0.036 cph (25% power is passed at 28.4 hours) (AOL, 1979). The wind stress (TAUX, TAUY) were calculated by using a quadratic stress law where the drag coefficient (deplnding on the wind speed) is taken into account for the 10 meter surface winds (Smith and Banke, 1975).

The data from the CTD were logged on a Hewlette Packard 21MX computer, using Coastal Oceanography's version of the Metrology RTE4 system software. The raw data consisted of pressure, temperature and conductivity measurements and were stored on a nine track magnetic tape. These data were later analyzed on the BIO CYBER computer using the CMSYST CTD software which uses the UNESCO formula to calculate salinity from conductivity, temperature and pressure. No correction was made for the difference in response time between the temperature and conductivity sensors. This difference is not important unless there are large thermal gradients in the water

column which produce spikes in the calculated salinity. These spikes were manually edited out of the data.

Data Presentation

The data in this report are presented in the following order:

- (a) Statistical tables of the meteorological data (Table 3) for Sable Island, Shearwater, Shelburne, Sydney, Western Head, Yarmouth and statistical tables of the sea level data (Table 4) for North Sydney, Yarmouth, Halifax.
- (b) Tidal tables which include record-mean tidal ellipses for the current velocity, tidal constituents for temperature, salinity, sigma-t from the current meters (Table 5), tidal constituents for pressure and temperature from the tide gauges (Table 6), tidal constituents for temperature from the thermistor chains (Table 7), tidal constituents for sea level data from Halifax, Yarmouth, Pt. Tupper, North Sydney (Table 8) are for the full length of their records.
- (c) Instrument summary for the various types of instruments (current meters, tide gauges, thermistor chains) moored during the CASP experiment. Each summary gives the accurate latitude, longitude, instrument number and type, accurate depth, sounding, duration of instrument, mooring date, sample interval, the statistics for the various sensors used in the instrument and comments.
- (d) Current velocity as a progressive vector (1-hour intervals) and stick plots filtered and subsampled at 6-hour intervals.
- (e) Rate, true direction, temperature and salinity as a time series plot (1-hour intervals).

- (f) Current velocity (U and V-component), temperature, salinity and sigma-t as a time series plot filtered and subsampled at 6-hour intervals.
- (g) Current velocity as a joint frequency distribution diagram.
- (h) Temperature and salinity as a joint frequency distribution diagram.

In steps (g) and (h) if one of the elements is missing then a histogram for the remaining element is given. The graphs and statistical diagrams as described in steps (c) to (h) are for the current meters, these may vary slightly for the other types of instruments used, but the basic format for all instruments is the same. Each set of diagrams (steps (c) to (h)) are repeated for each instrument moored during the CASP experiment, they are ordered sequentially by site number and depth.

- (i) Sea level data plotted as 1-hour time series and again as a time series filtered and subsampled at 6-hour intervals for North Sydney, Yarmouth, Halifax, Pt. Tupper.
- (j) The hydrographic data are presented in the following order:
 - 1) Table showing the station number, accurate latitude and longitude, time and day of cast, accurate depth and comments.
 - 2) Table showing the shipboard CTD calibrations used to process the data.
 - 3) A diagram showing the geographical locations for each section (Halifax, Liscomb, Canso, Louisburg) for that particular cruise.

- 4) Temperature section plot with an insert of the section diagram and a temperature vs salinity plot for only the stations that highlight the different water structures for the section.
- 5) Salinity section plot with an insert of the section diagram and a sigma-t section plot with an insert of the section diagram.

Steps 4) and 5) are repeated for each section in that particular cruise. Tables and section plots as described in steps 1) through 5) are presented for cruise 85-040 first followed by the tables and section plots (steps 1 through 5) for cruise 86-001. The tables for cruise 85-040 are Table 9, Table 10 and for cruise 86-001 they are Table 11, Table 12.

The horizontal spacing between stations in each section is found by performing a least squares straight line fit to all the station positions and then projecting each station onto this line. The vertical scale for all sections is 300 m depth. The bottom profiles for each section are generated from the soundings taken at each station. The horizontal scale is adjusted for each section to maintain a constant vertical scale.

- (k) Instrument summary for the MINIMET buoy as described in (c) wind velocity as a progressive vector (1-hour intervals) and stick plot filtered and subsampled at 6-hour intervals. The MINIMET data plotted as a time series at 1-hour intervals and again as a time series filtered and subsampled at 6-hour intervals. Wind velocity and wind stress as a joint frequency distribution plots for the 1-hour interval data, and histograms of the sea surface temprature and air temperature data.

(1) Wind velocity as a progressive vector at 1-hour intervals, stick plots filtered and subsampled at 6-hour intervals, the meteorological data plotted as a time series at 1-hour intervals and again as a time series filtered and subsampled at 6-hour intervals, wind velocity and wind stress as a joint frequency distribution plots for the 1-hour interval data. All of the graphs and statistical diagrams mentioned in this step are repeated for the meteorological stations at Sable Island, Shearwater, Shelburne, Sydney, Western Head and Yarmouth.

Day numbers on the graphs are in Julian days. Time series and stick plots are presented in 134 day segments for the instruments moored during the CASP experiment. The sea level time series plots are presented in 134 day segments and the meteorological data are presented in 182 day segments. The progressive vector diagrams for the current meter data are for the entire mooring period. The arrow on the progressive vector and stick diagrams represent the direction of the true north. The meteorological data were resolved using an angle section of 0° , the current meter data were resolved using an angle section of 68° and the MINIMET buoy data were resolved using an angle section of 0° .

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TABLE 3
STATISTICS OF METEOROLOGICAL DATA

SITE	LATITUDE	LONGITUDE	SENSOR (UNITS)*	MEAN	MINIMUM	MAXIMUM	STANDARD DEVIATION	NO. OF HOURLY SAMPLES	DURATION (DAYS)
SABLE ISLAND	43° 56.00'N	60° 01.00'W	RATE (m/s)	8.192	0.000	23.057	3.546	4344	181.0
			U WIND (m/s)	2.232	-18.877	19.698	6.672	4344	181.0
			V WIND (m/s)	-0.136	-18.330	17.803	5.494	4344	181.0
			SEA LEVEL PRESS.(MBAR)	1013.829	974.600	1043.600	10.371	4344	181.0
			U STRESS (PASCALS)	0.043	-0.857	1.121	0.154	4344	181.0
			V STRESS (PASCALS)	0.000	-0.793	1.095	0.108	4344	181.0
SHEARWATER	44° 38.00'N	63° 30.00'W	RATE (m/s)	5.293	0.000	21.668	2.978	4344	181.0
			U WIND (m/s)	1.498	-14.226	16.688	4.363	4344	181.0
			V WIND (m/s)	-0.505	-14.446	15.320	3.919	4344	181.0
			SEA LEVEL PRESS.(MBAR)	1014.085	977.100	1045.700	10.518	4344	181.0
			U STRESS (PASCALS)	0.018	-0.407	0.926	0.065	4344	181.0
			V STRESS (PASCALS)	-0.005	-0.524	0.777	0.059	4344	181.0
SHELBOURNE	43° 43.00'N	65° 15.00'W	RATE (m/s)	4.644	0.000	15.557	2.614	4344	181.0
			U WIND (m/s)	1.258	-11.390	15.557	4.028	4344	181.0
			V WIND (m/s)	-0.370	-13.679	13.679	3.234	4344	181.0
			SEA LEVEL PRESS.(MBAR)	1014.669	978.700	1044.400	10.216	4344	181.0
			U STRESS (PASCALS)	0.012	-0.316	0.501	0.052	4344	181.0
			V STRESS (PASCALS)	-0.002	-0.367	0.367	0.037	4344	181.0
SYDNEY	46° 10.00'N	60° 03.00'W	RATE (m/s)	6.254	0.000	21.668	2.949	4344	181.0
			U WIND (m/s)	2.486	-14.194	20.362	4.534	4344	181.0
			V WIND (m/s)	0.109	-14.446	18.613	4.590	4344	181.0
			SEA LEVEL PRESS.(MBAR)	1012.881	967.200	1045.000	10.897	4344	181.0
			U STRESS (PASCALS)	0.031	-0.498	1.136	0.074	4344	181.0
			V STRESS (PASCALS)	0.001	-0.414	0.805	0.072	4344	181.0

TABLE 3 (Continued)

SITE	LATITUDE	LONGITUDE	SENSOR (UNITS)*	MEAN	MINIMUM	MAXIMUM	STANDARD DEVIATION	NO. OF HOURLY SAMPLES	DURATION (DAYS)
WESTERN HEAD	43°59.00'N	64°40.00'W	RATE (m/s) U WIND (m/s) V WIND (m/s) SEA LEVEL PRESS.(MBAR) U STRESS (PASCALS) V STRESS (PASCALS)	4.936 1.148 -0.018 1014.915 0.008 0.009	0.000 -13.473 -10.834 977.600 -0.434 -0.211	20.557 15.748 16.946 1045.300 0.804 0.675	2.928 3.887 4.064 10.283 0.057 0.063	4344 4344 4344 4344 4344 4344	181.0 181.0 181.0 181.0 181.0 181.0
YARMOUTH	43°50.00'N	66°05.00'W	RATE (m/s) U WIND (m/s) V WIND (m/s) SEA LEVEL PRESS.(MBAR) U STRESS (PASCALS) V STRESS (PASCALS)	5.216 0.907 -1.165 1014.460 0.014 -0.013	0.000 -11.217 -14.226 978.400 -0.221 -0.407	16.946 15.924 14.446 1044.000 0.590 0.413	2.880 3.963 4.197 10.209 0.055 0.055	4344 4344 4344 4344 4344 4344	181.0 181.0 181.0 181.0 181.0 181.0

* U AND V ARE (EAST,NORTH) COMPONENTS OF WIND VELOCITY AND WIND STRESS.

TABLE 4
STATISTICS OF CHS PERMANENT SEA LEVEL GAUGES

NORTH SYDNEY					
LATITUDE		LONGITUDE			
DURATION(DAYS)		SAMPLE INTERVAL			
<u>SENSOR (UNITS)</u>	<u>MEAN</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>STD. DEV.</u>	<u>SAMPLES</u>
*SEA LEVEL (cm)	105.507	4.000	206.000	33.228	2904
YARMOUTH					
LATITUDE		LONGITUDE			
DURATION(DAYS)		SAMPLE INTERVAL			
<u>SENSOR (UNITS)</u>	<u>MEAN</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>STD. DEV.</u>	<u>SAMPLES</u>
*SEA LEVEL (cm)	254.559	20.000	520.000	120.663	2904
HALIFAX					
LATITUDE		LONGITUDE			
DURATION(DAYS)		SAMPLE INTERVAL			
<u>SENSOR (UNITS)</u>	<u>MEAN</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>STD. DEV.</u>	<u>SAMPLES</u>
*SEA LEVEL (cm)	130.119	10.000	272.000	48.550	2904
PT. TUPPER					
LATITUDE		LONGITUDE			
DURATION(DAYS)		SAMPLE INTERVAL			
<u>SENSOR (UNITS)</u>	<u>MEAN</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>STD. DEV.</u>	<u>SAMPLES</u>
*SEA LEVEL (cm)	99.634	-2.000	219.000	46.821	744

* SEA LEVEL = DISPLACEMENT (MEASURED RELATIVE TO A RECORD MINIMUM)

TABLE 5
GENERAL TIDAL ANALYSIS FOR CURRENTS, TEMPERATURE, SALINITY, SIGMA-T

SITE (MOORING) (DEPTH)	CONSTITUENT	127.3 DAYS CENTERED AT DAY 31, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M ² ×3)	AMP. (GMT)	PHASE
SITE 1 (719,012M)	K1	.031	.002	76	257/C	.023	301.23	.031	203.86	.025	199.67
	O1	.035	.002	85	228/C	.016	318.13	.023	192.38	.019	189.37
	M2	.031	.001	142	91/C	.019	167.67	.022	143.02	.016	141.37
	S2	.008	.002	161	138/C	.007	151.41	.042	83.56	.034	82.46
	N2	.005	.002	160	101/C	.004	298.91	.021	181.90	.017	180.22
	MF	.023	.001	107	337/A	.108	254.42	.056	103.15	.055	98.22
	M4	.004	.000	36	145/C	.003	190.71	.043	198.71	.034	198.49
	MS4	.002	.000	188	24/C	.005	235.44	.028	158.64	.023	157.58

SITE 1 (719,025M)	127.3 DAYS CENTERED AT DAY 31, 1986										
	K1	.041	.008	79	251/C	.012	280.02	.033	206.91	.027	204.28
	O1	.049	.009	65	227/C	.017	351.97	.023	188.36	.019	186.87
	M2	.049	.006	141	92/A	.008	180.12	.022	144.08	.017	143.24
	S2	.013	.006	172	140/C	.011	156.09	.044	86.23	.035	84.57
	N2	.011	.003	173	73/C	.007	314.32	.023	179.47	.019	178.38
	MF	.034	.001	111	332/C	.066	270.98	.058	98.63	.054	96.29
	M4	.005	.004	191	352/A	.007	234.85	.043	200.93	.034	200.36
	MS4	.002	.001	94	282/C	.004	246.29	.028	159.58	.023	158.51

SITE 1 (719,045M)	127.3 DAYS CENTERED AT DAY 31, 1986*										
	K1	.020	.006	100	225/A	.011	229.26	.030	210.53	.023	209.02
	O1	.034	.002	48	254/A	.035	.33	.009	196.06	.010	191.03
	M2	.024	.009	150	66/A	.023	76.65	.020	115.77	.015	119.44
	S2	.012	.000	165	113/C	.007	123.87	.040	90.93	.032	89.95
	N2	.010	.002	114	101/A	.011	325.37	.014	187.37	.012	184.70
	MF	.051	.004	60	310/A	.090	275.22	.056	85.74	.053	83.37
	M4	.004	.003	24	152/C	.008	268.33	.042	204.92	.033	203.68
	MS4	.005	.002	40	278/C	.001	230.17	.030	162.37	.024	161.93

*CURRENT ELLIPSE FOR SITE 1(719,045M) 26.3 DAYS CENTERED AT DAY 345, 1985

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	126.0 DAYS CENTERED AT DAY 30, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M ² ×3)	AMP. (KG/M ² ×3)	PHASE (GMT)
SITE 2 (720,030M)	K1	.038	.003	75	254/C	.025	324.49				
	O1	.038	.002	77	223/C	.016	297.84				
	M2	.032	.002	140	93/C	.019	190.63				
	S2	.008	.002	143	112/C	.014	207.67				
	N2	.006	.003	162	100/C	.016	22.61				
	MF	.023	.010	95	9/A	.058	267.69				
	M4	.004	.000	202	348/C	.007	5.60				
	MS4	.002	.001	34	283/A	.005	349.20				

SITE 2 (720,070M)	126.0 DAYS CENTERED AT DAY 30, 1986*										
	K1	.025	.010	190	132/A	.005	107.00	.033	182.52	.026	182.26
	O1	.037	.015	61	255/C	.020	342.43	.004	240.75	.004	217.08
	M2	.026	.002	136	93/A	.009	169.39	.043	117.30	.034	115.98
	S2	.007	.003	102	235/C	.032	253.50	.020	244.93	.013	242.84
	N2	.011	.000	159	53/C	.017	342.70	.027	349.39	.020	349.98
	MF	.061	.010	81	324/A	.064	203.44	.083	97.15	.071	92.41
	M4	.005	.002	188	288/C	.007	311.98	.030	345.49	.023	346.02
MS4	.003	.000	83	311/A	.008	289.16	.037	294.13	.029	293.98	

SITE 3 (721,016M)	127.8 DAYS CENTERED AT DAY 31, 1986										
	K1	.036	.006	54	261/C	.034	353.66	.014	213.88	.013	208.13
	O1	.036	.002	70	228/C	.022	338.22	.020	351.03	.015	352.48
	M2	.020	.010	163	58/A	.027	290.48	.012	305.91	.008	308.94
	S2	.012	.003	157	85/C	.010	322.40	.038	266.77	.030	265.25
	N2	.004	.001	138	90/A	.014	333.08	.037	338.14	.029	337.86
	MF	.015	.005	78	19/A	.149	249.78	.028	134.77	.027	117.41
	M4	.005	.001	189	1/A	.005	206.73	.020	177.81	.015	177.48
MS4	.002	.000	172	184/A	.005	231.04	.043	148.09	.034	147.39	

*CURRENT ELLIPSE FOR SITE 2(720,070M) 20.5 DAYS CENTERED AT DAY 342, 1985

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	127.8 DAYS CENTERED AT DAY 31, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M ² X3)	AMP. (GMT)	PHASE (GMT)
SITE 3 (721,050M)	K1	.031	.004	76	249/A	.018	111.00	.023	188.69	.018	194.19
	O1	.030	.004	67	230/A	.057	51.98	.028	27.89	.018	20.14
	M2	.022	.005	148	72/A	.087	318.91	.038	320.77	.025	324.00
	S2	.010	.006	162	97/C	.023	357.82	.036	275.22	.029	270.32
	N2	.008	.004	161	57/C	.007	273.70	.033	330.81	.025	332.54
	MF	.012	.000	68	1/A	.209	243.22	.058	199.54	.034	174.72
	M4	.003	.002	194	10/A	.012	169.58	.022	172.50	.016	171.04
	MS4	.002	.001	189	172/A	.006	23.17	.042	147.57	.034	147.88

	127.8 DAYS CENTERED AT DAY 31, 1986										
	K1	.024	.004	78	253/A	.025	48.50	.011	190.53	.011	197.19
SITE 3 (721,070M)	O1	.031	.004	60	237/A	.036	290.86	.033	6.45	.026	14.03
	M2	.030	.006	136	86/C	.093	353.99	.066	339.33	.045	336.82
	S2	.009	.003	165	106/C	.035	5.17	.049	276.59	.039	271.50
	N2	.008	.003	144	42/C	.029	300.27	.056	331.58	.042	333.93
	MF	.019	.002	60	6/C	.146	263.95	.038	300.62	.019	325.57
	M4	.004	.001	45	167/C	.012	144.32	.022	161.49	.017	162.03
	MS4	.001	.000	149	193/A	.005	51.34	.043	137.14	.035	138.38

	127.8 DAYS CENTERED AT DAY 31, 1986										
	K1	.030	.006	74	255/A	.051	99.54	.015	145.62	.009	177.99
SITE 3 (721,110M)	O1	.032	.008	64	227/A	.023	8.99	.031	8.88	.023	8.15
	M2	.032	.005	131	94/C	.108	359.09	.049	355.21	.025	351.06
	S2	.006	.002	143	132/C	.052	78.78	.027	271.86	.029	269.86
	N2	.008	.000	112	83/C	.067	31.15	.048	357.78	.031	350.47
	MF	.017	.004	51	348/C	.068	121.35	.033	133.15	.019	120.16
	M4	.004	.001	189	3/C	.003	132.07	.021	173.14	.017	174.72
	MS4	.002	.000	180	151/A	.011	103.22	.047	144.25	.037	145.79

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	127.7 DAYS CENTERED AT DAY 31, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M**3)	AMP. (GMT)	PHASE
SITE 4 (722,070M)	K1	.033	.001	70	261/A	.002	244.37	.008	46.30	.006	48.80
	O1	.034	.002	68	231/A	.027	277.64	.039	340.13	.030	345.74
	M2	.030	.005	146	93/C	.151	263.25	.091	269.43	.055	271.58
	S2	.008	.001	125	219/C	.045	298.00	.041	246.30	.030	237.54
	N2	.008	.006	132	69/C	.039	280.90	.007	238.43	.004	184.45
	MF	.010	.002	40	259/A	.327	124.00	.104	108.10	.049	95.87
	M4	.006	.002	64	179/C	.007	236.29	.025	126.07	.020	122.85
	MS4	.004	.002	184	140/C	.024	156.89	.018	246.64	.015	257.54

SITE 4 (722,110M)	114.1 DAYS CENTERED AT DAY 24, 1986										
	K1	.031	.006	65	267/A	.006	145.20	.030	260.33	.025	262.69
	O1	.038	.008	58	230/A	.017	25.52	.005	33.87	.002	61.01
	M2	.035	.003	146	87/C	.046	289.95	.055	254.85	.039	247.43
	S2	.010	.002	140	129/C	.014	116.02	.014	196.90	.011	209.80
	N2	.008	.003	124	63/C	.023	294.76	.033	346.61	.025	353.61
	MF	.018	.001	35	309/A	.079	54.16	.032	103.89	.021	124.93
	M4	.004	.000	40	167/A	.009	201.30	.042	208.04	.033	207.98
	MS4	.002	.000	32	298/C	.017	173.15	.053	193.58	.041	194.74

SITE 6 (723,014M)	127.2 DAYS CENTERED AT DAY 31, 1986										
	K1	.034	.001	63	258/C	.013	358.30	.029	188.39	.024	186.93
	O1	.034	.001	74	224/A	.020	304.60	.020	174.60	.017	170.98
	M2	.032	.000	133	89/A	.010	143.21	.025	98.99	.019	97.45
	S2	.006	.002	177	125/C	.004	97.81	.042	36.70	.034	36.21
	N2	.005	.002	151	56/C	.014	283.57	.019	151.72	.015	148.98
	MF	.030	.000	63	4/A	.054	257.16	.053	75.03	.048	74.41
	M4	.003	.000	32	159/C	.004	170.51	.042	112.87	.033	112.13
	MS4	.002	.001	181	147/A	.003	218.51	.028	72.57	.023	71.91

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	127.2 DAYS CENTERED AT DAY 31, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M**3)	AMP. (GMT)	PHASE (GMT)
SITE 6 (723, 026M)	K1	.038	.003	72	257/C	.016	30.97	.030	179.20	.025	178.82
	O1	.039	.001	81	225/C	.010	308.29	.026	162.63	.022	160.01
	M2	.042	.001	316	272/A	.015	135.25	.024	101.77	.018	99.88
	S2	.008	.002	354	298/C	.006	128.42	.042	39.37	.034	38.29
	N2	.010	.002	323	243/C	.004	213.62	.022	136.29	.018	134.54
	MF	.030	.003	65	354/C	.063	263.85	.055	87.85	.050	86.66
	M4	.004	.002	48	152/A	.007	146.74	.043	112.04	.034	111.25
	MS4	.002	.001	65	276/A	.002	248.83	.028	70.86	.023	70.57

SITE 6 (723, 066M)	90.7 DAYS CENTERED AT DAY 49, 1986										
	K1	.041	.001	86	246/A	.047	72.50	.022	108.64	.015	116.82
	O1	.032	.006	58	241/A	.019	356.70	.040	159.40	.034	160.54
	M2	.035	.004	125	104/A	.043	277.53	.051	217.34	.040	213.14
	S2	.007	.001	345	326/A	.011	301.08	.049	35.28	.039	36.64
	N2	.009	.002	318	299/C	.012	117.11	.004	116.79	.002	106.41
	MF	.020	.008	42	55/C	.124	102.29	.056	104.50	.037	103.63
	M4	.004	.001	50	181/A	.017	273.64	.056	127.04	.046	126.23
	MS4	.003	.000	24	353/A	.015	52.87	.050	356.05	.040	354.52

SITE 7 (724, 013M)	119.4 DAYS CENTERED AT DAY 27, 1986										
	K1	.040	.006	70	259/C	.026	341.78	.028	276.60	.021	272.07
	O1	.043	.004	76	229/C	.031	357.22	.006	335.50	.003	310.55
	M2	.022	.000	134	96/C	.012	201.59	.036	206.93	.028	207.04
	S2	.010	.002	331	285/C	.010	218.17	.032	233.99	.025	234.13
	N2	.004	.001	324	256/C	.004	30.09	.035	292.25	.028	291.65
	MF	.031	.006	60	27/A	.018	185.80	.032	98.44	.028	92.56
	M4	.004	.001	24	144/C	.003	56.00	.039	322.58	.031	321.90
	MS4	.003	.000	38	313/A	.004	35.68	.043	11.83	.035	11.29

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	128.0 DAYS CENTERED AT DAY 31, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M**3)	AMP. (GMT)	PHASE
SITE 7 (724, 025M)	K1	.046	.010	74	254/C	.026	341.96	.027	201.19	.023	197.40
	O1	.049	.010	67	228/C	.033	351.91	.008	327.33	.005	308.73
	M2	.032	.003	135	90/A	.007	244.45	.030	129.73	.024	128.39
	S2	.010	.005	139	107/C	.011	228.17	.007	274.07	.005	280.22
	N2	.006	.002	139	83/C	.009	15.22	.040	344.32	.031	343.43
	MF	.029	.001	57	30/A	.031	340.89	.057	94.52	.048	96.14
	M4	.005	.001	191	346/C	.001	84.42	.044	355.42	.036	354.99
	MS4	.001	.001	49	277/A	.002	290.79	.023	325.04	.018	324.43

SITE 7 (724, 065M)	128.0 DAYS CENTERED AT DAY 31, 1986										
	K1	.033	.004	61	250/A	.009	26.59	.030	240.14	.025	238.79
	O1	.040	.003	60	231/A	.054	338.73	.023	323.47	.015	316.67
	M2	.028	.002	144	76/C	.022	338.58	.020	133.31	.017	136.21
	S2	.006	.000	28	265/C	.004	326.14	.010	300.33	.007	301.84
	N2	.011	.004	147	65/C	.021	307.63	.052	333.43	.041	333.91
	MF	.021	.003	56	11/C	.095	235.88	.041	88.52	.041	81.33
	M4	.005	.001	46	167/A	.009	314.00	.046	353.72	.037	354.14
	MS4	.002	.001	33	207/A	.006	138.80	.022	328.17	.019	327.62

SITE 8 (725, 004M)	132.0 DAYS CENTERED AT DAY 30, 1986										
	K1	.042	.003	66	257/C	.009	324.32	.029	130.70	.024	129.54
	O1	.044	.002	75	220/C	.023	359.58	.028	316.41	.021	312.90
	M2	.020	.003	146	79/A	.008	137.59	.002	290.14	.002	298.78
	S2	.009	.003	151	94/C	.013	136.95	.010	114.15	.007	113.03
	N2	.006	.000	182	346/C	.011	357.53	.024	241.87	.019	239.73
	MF	.030	.001	72	9/C	.135	127.03	.035	51.66	.027	28.82
	M4	.002	.000	200	349/A	.003	265.50	.005	294.58	.003	297.05
	MS4	.002	.000	62	27/C	.004	208.96	.012	232.85	.009	233.72

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	132.0 DAYS CENTERED AT DAY 30, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M ² •3)	AMP. (GMT)	PHASE (GMT)
SITE 8 (725,032M)	K1	.035	.003	65	245/C	.013	256.99	.031	133.14	.026	131.03
	O1	.035	.005	65	223/C	.017	16.25	.027	323.93	.020	321.05
	M2	.012	.002	140	76/A	.010	122.24	.006	356.01	.005	350.42
	S2	.006	.001	183	108/C	.006	122.82	.011	103.08	.008	102.80
	N2	.004	.001	181	26/A	.008	344.42	.022	241.02	.018	239.14
	MF	.026	.001	66	20/C	.142	118.70	.020	92.29	.008	53.33
	M4	.002	.000	190	355/A	.003	297.55	.004	285.07	.003	286.23
	MS4	.001	.001	47	327/C	.005	213.78	.013	246.26	.010	247.63

SITE 8 (725,072M)	56.2 DAYS CENTERED AT DAY 357, 1985*										
	K1	.030	.007	63	244/A	.013	2.78	.062	148.32	.051	148.98
	O1	.035	.001	49	227/C	.025	63.81	.055	232.27	.047	232.72
	M2	.021	.000	120	78/C	.047	67.59	.086	113.33	.066	115.99
	S2	.005	.002	144	69/A	.041	8.80	.151	44.78	.118	45.84
	N2	.006	.001	91	38/C	.040	316.88	.121	316.48	.093	316.13
	MF	.020	.001	59	358/C	.237	182.02	.135	83.48	.114	72.48
	M4	.004	.001	28	178/C	.003	207.38	.063	163.39	.050	162.89
	MS4	.002	.000	128	270/A	.014	156.94	.014	93.00	.011	86.98

SITE 9 (726,009M)	133.0 DAYS CENTERED AT DAY 30, 1986										
	K1	.058	.010	59	244/C	.022	349.12	.029	251.15	.024	247.22
	O1	.057	.009	67	219/C	.010	139.43	.030	76.24	.023	74.21
	M2	.020	.001	122	81/C	.004	53.24	.011	258.50	.009	256.76
	S2	.006	.001	178	128/C	.009	285.38	.011	168.80	.009	165.71
	N2	.005	.003	57	65/C	.006	261.85	.027	118.66	.022	117.96
	MF	.017	.000	73	323/A	.093	126.33	.027	41.28	.023	16.83
	M4	.002	.000	182	302/C	.002	357.75	.020	242.20	.016	241.12
	MS4	.002	.000	102	90/A	.003	292.73	.020	179.07	.016	178.11

*CURRENT ELLIPSE FOR SITE 8(725,072M) 132.0 DAYS CENTERED AT DAY 30, 1986

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	133.0 DAYS CENTERED AT DAY 30, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (GMT)	AMP. (KG/M ² *3)	PHASE (GMT)
SITE 9 (726,050M)	K1	.055	.010	54	247/A	.020	18.79	.026	275.65	.022	271.72
	O1	.058	.009	48	231/A	.021	49.40	.037	65.44	.029	65.79
	M2	.030	.000	126	71/C	.007	19.61	.015	269.75	.012	267.38
	S2	.011	.006	94	356/C	.008	357.54	.012	166.57	.010	166.65
	N2	.010	.001	140	34/C	.006	257.75	.028	129.31	.022	128.26
	MF	.018	.001	59	318/A	.089	110.52	.040	36.90	.033	22.28
	M4	.004	.001	193	324/A	.003	320.37	.019	240.21	.015	238.97
	MS4	.004	.002	177	117/A	.006	330.19	.019	176.38	.016	175.30

SITE 10 (727,011M)	133.0 DAYS CENTERED AT DAY 30, 1986										
	K1	.051	.012	59	248/C	.019	345.70	.030	223.59	.025	220.86
	O1	.049	.010	72	221/C	.015	81.21	.030	53.49	.023	52.12
	M2	.019	.001	118	81/C	.010	4.13	.010	210.49	.008	208.57
	S2	.008	.005	180	125/C	.011	212.79	.013	110.63	.011	106.73
	N2	.002	.000	130	40/A	.003	194.45	.029	63.32	.024	62.39
	MF	.029	.004	84	341/C	.090	137.64	.016	67.09	.012	29.53
	M4	.003	.002	155	1/A	.004	234.10	.018	126.16	.014	124.86
	MS4	.003	.000	153	135/C	.003	166.88	.020	63.99	.016	62.84

SITE 10 (727,031M)	7.8 DAYS CENTERED AT DAY 332, 1985										
	K1	.060	.013	61	251/C	.067	309.58	.363	296.56	.286	296.18
	O1	.058	.003	75	198/C	.021	138.48	.096	10.46	.079	8.89
	M2	.017	.005	124	43/C	.286	324.59	.507	229.08	.414	224.66
	S2	.020	.007	58	27/C	.354	199.36	.906	200.00	.693	199.91
	N2	.034	.014	99	321/C	.054	259.56	1.067	152.52	.864	152.02
	MF	.057	.023	160	357/C	.414	29.62	.408	51.76	.287	55.30
	M4	.014	.007	110	63/C	.234	234.01	1.216	239.49	.957	239.43
	MS4	.012	.002	86	269/C	.251	89.87	1.328	90.40	1.046	90.20

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	133.0 DAYS CENTERED AT DAY 30, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (KG/M ² ×3)	AMP. (GMT)	PHASE (GMT)
SITE 10 (727,071M)	K1	.046	.002	63	242/C	.017	347.01	.033	242.95	.027	240.92
	O1	.049	.003	59	220/C	.018	356.43	.031	32.31	.024	33.26
	M2	.023	.004	112	84/A	.033	3.99	.011	307.77	.008	295.93
	S2	.006	.002	130	96/C	.007	126.85	.016	97.35	.012	96.25
	N2	.009	.005	132	88/C	.013	345.20	.032	61.80	.026	63.41
	MF	.021	.005	73	347/C	.091	160.57	.035	117.75	.024	110.41
	M4	.002	.000	148	6/A	.002	308.68	.018	128.33	.014	128.43
	MS4	.002	.000	197	89/A	.009	155.01	.020	72.04	.016	69.85

	133.0 DAYS CENTERED AT DAY 30, 1986										
SITE 11 (728,011M)	K1	.051	.009	59	248/C	.014	281.00	.030	171.89	.024	167.78
	O1	.044	.007	68	215/C	.023	336.79	.035	349.91	.026	351.44
	M2	.022	.004	143	64/C	.017	298.35	.012	264.37	.008	258.86
	S2	.013	.005	26	313/C	.011	276.83	.004	194.03	.003	179.11
	N2	.005	.001	120	78/C	.008	49.53	.011	311.68	.010	306.70
	MF	.031	.023	39	227/C	.152	115.72	.030	68.21	.019	28.45
	M4	.001	.000	24	210/A	.005	96.35	.022	75.98	.017	75.22
	MS4	.003	.001	192	123/C	.005	36.60	.021	6.04	.016	5.03

	133.0 DAYS CENTERED AT DAY 30, 1986										
SITE 11 (728,050M)	K1	.043	.004	66	235/C	.045	306.04	.029	179.39	.027	171.20
	O1	.046	.007	62	216/C	.046	261.38	.034	340.02	.028	348.33
	M2	.026	.010	123	68/C	.059	11.13	.022	332.40	.013	321.29
	S2	.006	.002	170	145/C	.006	169.46	.008	198.65	.005	201.55
	N2	.004	.002	89	1/C	.022	350.29	.019	326.90	.013	323.80
	MF	.022	.012	68	250/C	.186	113.93	.032	37.17	.028	3.59
	M4	.001	.000	170	54/A	.006	99.79	.022	79.93	.017	77.95
	MS4	.001	.001	169	150/A	.009	166.89	.019	1.75	.016	1.18

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	133.0 DAYS CENTERED AT DAY 30, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE	AMP. (KG/M ² ×3)	PHASE (GMT)
SITE 11 (728, 070M)	K1	.041	.005	68	244/C	.044	346.35	.021	170.18	.022	168.47
	O1	.040	.001	56	222/C	.060	253.69	.037	346.55	.031	358.60
	M2	.026	.011	121	68/C	.075	16.27	.026	330.98	.016	310.53
	S2	.004	.004	126	93/C	.021	106.99	.014	162.56	.010	172.54
	N2	.007	.005	98	47/C	.043	118.79	.007	9.39	.008	337.16
	MF	.011	.007	62	260/C	.431	146.91	.082	115.21	.038	76.05
	M4	.003	.001	139	350/C	.003	95.71	.021	78.78	.017	77.94
	MS4	.002	.000	119	36/A	.018	295.20	.021	.56	.016	6.72

SITE 2 (757, 018M)	126.0 DAYS CENTERED AT DAY 30, 1986										
	K1	.036	.004	65	254/C	.023	317.01	.031	188.30	.026	184.91
	O1	.036	.004	75	224/C	.021	306.80	.018	192.11	.016	186.98
	M2	.027	.000	132	96/A	.019	174.64	.044	126.29	.035	124.44
	S2	.008	.002	152	113/C	.012	202.64	.013	55.93	.012	52.75
	N2	.005	.001	147	65/C	.012	20.87	.007	6.53	.004	6.24
	MF	.018	.007	85	22/A	.047	275.28	.054	90.39	.049	89.10
	M4	.004	.001	201	347/C	.003	289.08	.012	169.13	.010	167.82
	MS4	.001	.000	33	297/C	.003	299.08	.037	292.14	.030	291.80

SITE 2 (757, 023M)	126.0 DAYS CENTERED AT DAY 30, 1986										
	K1	.036	.003	73	253/C	.023	311.98				
	O1	.036	.002	80	224/C	.022	287.51				
	M2	.027	.000	136	97/C	.023	177.34				
	S2	.008	.001	154	114/C	.014	187.29				
	N2	.004	.002	148	63/C	.009	20.03				
	MF	.019	.007	90	18/A	.060	259.36				
	M4	.004	.000	201	353/A	.002	346.12				
	MS4	.001	.000	178	122/A	.005	288.48				

TABLE 5 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	126.0 DAYS CENTERED AT DAY 30, 1986									
		CURRENT ELLIPSE				TEMPERATURE		SALINITY		SIGMA-T	
		MAJ. (M/S)	MIN. (M/S)	ORIEN. (DEG.T)	PHASE SENSE	AMP. (DEG.C.)	PHASE (GMT)	AMP. (GMT)	PHASE (GMT)	AMP. (KG/M ² *3)	PHASE (GMT)
SITE 2 (757,028M)	K1	.033	.001	83	249/C	.025	328.39	.028	189.23	.023	185.80
	O1	.032	.001	86	224/C	.023	300.57	.017	194.86	.014	189.40
	M2	.026	.001	144	95/C	.020	173.92	.044	125.71	.035	123.71
	S2	.007	.001	161	111/C	.015	172.48	.015	66.28	.013	61.22
	N2	.004	.000	135	58/C	.008	52.29	.007	32.19	.005	33.77
	MF	.019	.005	95	14/A	.074	253.35	.048	97.21	.045	93.36
	M4	.004	.000	30	173/A	.002	203.43	.012	164.81	.010	163.59
	MS4	.001	.000	189	111/C	.005	331.08	.038	295.39	.030	295.00

SITE 2 (757,038M)	126.0 DAYS CENTERED AT DAY 30, 1986										
	K1	.030	.002	80	244/A	.025	343.57	.027	185.23	.023	183.31
	O1	.030	.001	76	221/C	.019	304.00	.017	192.48	.015	188.26
	M2	.026	.002	137	92/C	.009	135.79	.042	121.12	.033	120.07
	S2	.003	.000	157	104/A	.008	191.96	.013	52.69	.011	49.08
	N2	.004	.001	164	39/A	.012	41.21	.004	8.96	.003	7.06
	MF	.021	.005	85	9/A	.142	263.28	.028	95.50	.033	89.76
	M4	.004	.001	202	358/C	.005	336.50	.012	156.37	.009	155.80
	MS4	.001	.000	170	243/C	.008	301.09	.037	293.76	.029	293.38

SITE 2 (758,2.6M)	131.6 DAYS CENTERED AT DAY 27, 1986*										
	K1	.036	.008	71	248/C	.041	348.47	.034	351.28	.026	351.57
	O1	.036	.005	82	222/C	.016	238.29	.018	143.08	.015	138.04
	M2	.031	.003	137	83/A	.012	142.92	.034	89.13	.027	87.28
	S2	.011	.003	164	104/C	.012	75.35	.016	301.24	.014	296.91
	N2	.006	.004	157	53/A	.016	12.27	.045	344.54	.036	343.77
	MF	.043	.007	82	314/A	.239	73.37	.201	66.32	.147	65.91
	M4	.002	.001	50	132/A	.007	247.17	.035	240.79	.027	240.42
	MS4	.003	.002	198	55/C	.005	141.74	.037	119.94	.029	119.84

*CURRENT ELLIPSE FOR SITE 2(758,2.6M) 45.3 DAYS CENTERED AT DAY 349, 1985

TABLE 6
GENERAL TIDAL ANALYSIS FOR TEMPERATURE, BOTTOM PRESSURE

SITE (MOORING) (DEPTH)	CONSTITUENT	127.3 DAYS CENTERED AT DAY 31, 1986			
		TEMPERATURE		BOTTOM PRESSURE	
		AMP. (DEG. CEL.)	PHASE (GMT)	AMP. (DECIBARS)	PHASE (GMT)
SITE 1 (719,063M)	K1	.018	254.34	.081	117.14
	O1	.009	347.69	.048	91.78
	M2	.013	170.04	.606	349.50
	S2	.007	165.09	.155	9.93
	N2	.002	5.38	.128	327.29
	MF	.078	275.52	.015	207.67
	M4	.003	244.02	.037	267.66
	MS4	.006	219.83	.016	51.29

SITE 2 (720,100M)		126.0 DAYS CENTERED AT DAY 30, 1986			
		AMP.	PHASE (GMT)	AMP.	PHASE (GMT)
SITE 2 (720,100M)	K1	.024	93.78	.078	118.69
	O1	.032	.23	.044	93.98
	M2	.065	245.01	.603	349.40
	S2	.018	333.11	.155	9.25
	N2	.002	306.48	.128	327.65
	MF	.086	137.28	.010	201.73
	M4	.014	80.06	.036	267.75
	MS4	.004	236.20	.016	47.72

SITE 3 (721,165M)		127.8 DAYS CENTERED AT DAY 31, 1986			
		AMP.	PHASE (GMT)	AMP.	PHASE (GMT)
SITE 3 (721,165M)	K1	.052	348.01	.079	120.34
	O1	.066	13.71	.038	105.86
	M2	.030	310.08	.583	335.20
	S2	.017	285.42	.149	354.29
	N2	.005	116.57	.130	312.79
	MF	.157	299.81	.051	92.78
	M4	.004	192.04	.033	232.62
	MS4	.005	121.97	.018	21.70

TABLE 6 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	109.5 DAYS CENTERED AT DAY 22, 1986			
		TEMPERATURE		BOTTOM PRESSURE	
		AMP. (DEG. CEL.)	PHASE (GMT)	AMP. (DECIBARS)	PHASE (GMT)
SITE 4 (722, 220M)	K1	.007	342.91	.070	129.98
	O1	.006	8.16	.039	112.18
	M2	.008	269.08	.593	349.26
	S2	.002	3.24	.165	11.30
	N2	.008	72.58	.124	325.99
	MF	.012	206.71	.010	220.23
	M4	.002	100.87	.032	265.53
	MS4	.008	204.17	.013	49.60

127.3 DAYS CENTERED AT DAY 31, 1986				
SITE 6 (723, 105M)	K1	.020	298.36	.083
	O1	.060	279.45	.048
	M2	.106	207.23	.604
	S2	.042	271.01	.156
	N2	.079	225.23	.126
	MF	.104	88.74	.011
	M4	.016	210.83	.033
	MS4	.008	354.58	.017

128.0 DAYS CENTERED AT DAY 31, 1986				
SITE 7 (724, 104M)	K1	.069	23.71	.077
	O1	.080	354.52	.042
	M2	.034	10.50	.601
	S2	.012	297.86	.156
	N2	.013	342.11	.128
	MF	.199	110.63	.011
	M4	.010	317.52	.038
	MS4	.004	285.26	.017

TABLE 6 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	132.0 DAYS CENTERED AT DAY 30, 1986			
		TEMPERATURE		BOTTOM PRESSURE	
		AMP. (DEG. CEL.)	PHASE (GMT)	AMP. (DECIBARS)	PHASE (GMT)
SITE 8 (725,090M)	K1	.014	294.26	.072	109.16
	O1	.028	310.94	.038	79.71
	M2	.039	36.80	.600	348.12
	S2	.009	160.54	.159	7.96
	N2	.038	1.85	.125	326.95
	MF	.127	134.53	.010	202.01
	M4	.006	130.99	.040	264.14
	MS4	.010	214.83	.018	44.48

SITE 9 (726,060M)	133.1 DAYS CENTERED AT DAY 30, 1986				
	K1	AMP.	PHASE (GMT)	AMP.	PHASE (GMT)
	K1	.018	35.16	.062	92.27
	O1	.030	40.76	.037	50.83
	M2	.011	5.74	.596	347.17
	S2	.007	299.66	.160	8.17
	N2	.007	246.34	.123	327.24
	MF	.068	117.11	.011	196.12
	M4	.004	278.57	.043	261.01
	MS4	.003	266.34	.020	43.01

SITE 10 (727,103M)	133.1 DAYS CENTERED AT DAY 30, 1986				
	K1	AMP.	PHASE (GMT)	AMP.	PHASE (GMT)
	K1	.069	301.31	.058	95.33
	O1	.078	324.51	.031	51.13
	M2	.010	236.70	.594	346.83
	S2	.004	239.71	.162	7.70
	N2	.010	207.38	.123	326.88
	MF	.203	146.90	.009	204.80
	M4	.012	129.41	.042	259.30
	MS4	.005	217.71	.020	40.66

TABLE 6 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	129.6 DAYS CENTERED AT DAY 30, 1986			
		TEMPERATURE		BOTTOM PRESSURE	
		AMP. (DEG. CEL.)	PHASE (GMT)	AMP. (DECIBARS)	PHASE (GMT)
SITE 5 (729, 225M)	K1	.006	69.92	.064	130.28
	O1	.008	23.14	.031	121.40
	M2	.013	315.66	.583	350.29
	S2	.003	274.70	.153	9.22
	N2	.014	185.89	.122	329.05
	MF	.007	44.44	.010	221.00
	M4	.013	346.46	.031	267.30
	MS4	.014	298.64	.013	41.34

147.0 DAYS CENTERED AT DAY 31, 1986				
WEST HEAD (730, 4.6M)	K1	.015	75.06	.124
	O1	.020	231.19	.109
	M2	.075	42.50	1.095
	S2	.003	273.74	.226
	N2	.016	341.83	.227
	MF	.165	278.09	.012
	M4	.018	356.98	.047
	MS4	.003	341.53	.019

147.0 DAYS CENTERED AT DAY 31, 1986				
RIVERPORT (731, 6.1M)	K1	.020	70.39	.098
	O1	.021	8.18	.068
	M2	.088	312.00	.645
	S2	.036	156.31	.163
	N2	.006	225.42	.137
	MF	.067	358.06	.012
	M4	.030	100.57	.030
	MS4	.010	348.59	.015

TABLE 6 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	138.0 DAYS CENTERED AT DAY 27, 1986			
		TEMPERATURE		BOTTOM PRESSURE	
		AMP. (DEG. CEL.)	PHASE (GMT)	AMP. (DECIBARS)	PHASE (GMT)
SAMBRO (732, 004M)	K1	.013	58.29	.088	121.25
	O1	.015	194.18	.058	99.64
	M2	.035	33.87	.616	350.54
	S2	.010	184.76	.163	7.37
	N2	.011	252.96	.129	327.96
	MF	.158	345.43	.012	203.15
	M4	.005	349.85	.030	271.95
	MS4	.003	9.97	.012	35.02

146.9 DAYS CENTERED AT DAY 32, 1986				
SHIP HARB. (733, 3.7M)	K1	.025	325.25	.076
	O1	.009	237.64	.046
	M2	.007	357.44	.608
	S2	.019	238.45	.158
	N2	.018	310.88	.127
	MF	.176	349.48	.009
	M4	.009	48.41	.041
	MS4	.002	124.35	.018

147.0 DAYS CENTERED AT DAY 33, 1986				
LOUISBOURG (735, 7.6M)	K1	.014	8.41	.052
	O1	.014	225.17	.060
	M2	.016	165.18	.498
	S2	.011	277.67	.144
	N2	.003	355.87	.103
	MF	.134	15.12	.004
	M4	.006	172.18	.020
	MS4	.006	75.89	.012

TABLE 6 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	147.0 DAYS CENTERED AT DAY 34, 1986			
		TEMPERATURE		BOTTOM PRESSURE	
		AMP. (DEG. CEL.)	PHASE (GMT)	AMP. (DECIBARS)	PHASE (GMT)
WHITEHEAD (736, 4.6M)	K1	.055	356.87	.054	65.11
	O1	.008	232.53	.040	12.43
	M2	.021	304.92	.582	345.64
	S2	.031	196.12	.158	6.60
	N2	.004	126.52	.119	325.63
	MF	.132	39.41	.007	223.80
	M4	.003	160.10	.041	259.42
	MS4	.002	302.37	.019	32.79

TABLE 7
GENERAL TIDAL ANALYSIS FOR TEMPERATURE

SITE (MOORING) (DEPTH)	CONSTITUENT	126.0 DAYS CENTERED AT DAY 30, 1986							
		TEMPERATURE		TEMPERATURE		TEMPERATURE		TEMPERATURE	
		AMP. (DEG.C.)	PHASE (GMT)	AMP. (DEG.C.)	PHASE (GMT)	AMP. (DEG.C.)	PHASE (GMT)	AMP. (DEG.C.)	PHASE (GMT)
SITE 2 (720, 031M)	K1	.023	315.41	.023	318.94	.025	334.01	.022	343.90
	O1	.019	289.56	.020	283.72	.021	290.88	.021	299.97
	M2	.022	174.37	.019	170.42	.017	156.68	.012	179.17
	S2	.014	191.44	.013	190.23	.014	193.05	.014	187.89
	N2	.014	16.69	.013	26.94	.014	42.75	.014	44.85
	MF	.060	262.64	.068	257.64	.081	254.84	.097	259.75
	M4	.005	337.40	.004	26.46	.003	67.99	.001	180.42
	MS4	.007	310.89	.007	310.33	.006	327.70	.006	324.14
		DEPTH 31 M		DEPTH 34 M		DEPTH 37 M		DEPTH 40 M	

SITE 2 (720, 031M)	126.0 DAYS CENTERED AT DAY 30, 1986								
	K1	.022	346.79	.021	333.68	.021	301.55	.021	258.34
	O1	.020	309.91	.020	320.93	.020	310.12	.022	312.46
	M2	.013	176.00	.013	170.54	.011	183.01	.012	186.17
	S2	.019	180.62	.017	184.63	.011	207.42	.022	208.84
	N2	.021	46.05	.020	57.05	.020	48.17	.025	16.80
	MF	.125	265.62	.151	267.78	.166	265.30	.166	261.17
	M4	.007	329.36	.012	325.00	.011	307.98	.004	255.60
	MS4	.006	293.44	.004	286.35	.003	263.19	.009	267.74
		DEPTH 43 M		DEPTH 46 M		DEPTH 49 M		DEPTH 52 M	

SITE 2 (720, 031M)	126.0 DAYS CENTERED AT DAY 30, 1986								
	K1	.019	213.76	.013	179.55	.015	174.17		
	O1	.026	333.12	.017	347.66	.012	357.24		
	M2	.015	194.85	.017	191.60	.018	174.63		
	S2	.025	219.67	.020	223.27	.019	235.63		
	N2	.029	3.68	.024	358.16	.017	14.77		
	MF	.154	258.55	.134	256.10	.108	251.71		
	M4	.013	235.95	.013	230.43	.007	211.61		
	MS4	.013	285.82	.014	311.62	.010	299.97		
		DEPTH 55 M		DEPTH 58 M		DEPTH 61 M			

DEPTHS FOR THE INDIVIDUAL THERMISTORS
ARE AT THE BOTTOM OF EACH COLUMN

TABLE 7 - CONTINUED

SITE (MOORING) (DEPTH)	CONSTITUENT	128.0 DAYS CENTERED AT DAY 31, 1986							
		TEMPERATURE		TEMPERATURE		TEMPERATURE		TEMPERATURE	
		AMP. (DEG.C.)	PHASE (GMT)	AMP. (DEG.C.)	PHASE (GMT)	AMP. (DEG.C.)	PHASE (GMT)	AMP. (DEG.C.)	PHASE (GMT)
SITE 7 (724,014M)	K1	.025	345.07	.024	336.74	.024	337.66	.022	335.07
	O1	.026	347.15	.029	342.44	.027	354.25	.025	320.16
	M2	.011	196.68	.007	227.75	.003	248.02	.008	217.37
	S2	.010	203.85	.009	225.43	.004	203.60	.011	201.90
	N2	.008	11.18	.011	2.36	.009	358.04	.007	211.80
	MF	.033	309.53	.034	321.56	.028	329.58	.065	286.47
	M4	.005	12.00	.003	51.65	.001	359.09	.002	314.69
	MS4	.004	.40	.005	18.10	.005	64.44	.006	53.22
		DEPTH 14 M		DEPTH 24 M		DEPTH 34 M		DEPTH 44 M	

SITE 7 (724,014M)	128.0 DAYS CENTERED AT DAY 31, 1986								
	K1	.014	355.77	.011	345.88	.020	15.17	.043	17.73
	O1	.033	291.49	.044	328.40	.059	341.21	.077	349.74
	M2	.010	350.87	.019	331.70	.021	332.97	.046	328.88
	S2	.004	354.59	.013	309.77	.006	112.50	.007	223.37
	N2	.019	248.91	.014	301.57	.017	286.60	.025	299.41
	MF	.131	276.94	.117	256.39	.091	190.95	.131	121.33
	M4	.009	340.82	.008	308.27	.009	290.66	.009	330.62
	MS4	.008	139.25	.003	39.05	.008	134.79	.006	155.24
		DEPTH 54 M		DEPTH 64 M		DEPTH 74 M		DEPTH 84 M	

SITE 7 (724,014M)	128.0 DAYS CENTERED AT DAY 31, 1986								
	K1	.070	19.90	.076	23.17	.054	19.36		
	O1	.101	.13	.101	2.42	.085	352.60		
	M2	.034	328.60	.028	322.93	.047	328.70		
	S2	.016	325.15	.016	352.65	.004	267.40		
	N2	.019	294.71	.016	285.37	.026	303.10		
	MF	.184	112.76	.195	111.11	.149	117.57		
	M4	.012	331.72	.014	319.34	.006	320.08		
	MS4	.003	153.22	.001	195.68	.004	150.00		
		DEPTH 94 M		DEPTH 97 M		DEPTH 87 M			

DEPTHS FOR THE INDIVIDUAL THERMISTORS
ARE AT THE BOTTOM OF EACH COLUMN

TABLE 8
GENERAL TIDAL ANALYSIS FOR SEA LEVELS

LOCATION	CONSTITUENT	121.0 DAYS CENTERED AT DAY 30, 1986	
		SEA LEVELS	
		AMP. (CM.)	PHASE (GMT)
HALIFAX	K1	8.458	118.14
	O1	5.690	95.90
	M2	61.975	351.59
	S2	15.049	11.04
	N2	13.235	329.38
	MF	2.231	219.11
	M4	3.677	271.06
	MS4	1.669	55.02

121.0 DAYS CENTERED AT DAY 30, 1986		
YARMOUTH	K1	12.094
	O1	10.737
	M2	166.603
	S2	30.120
	N2	32.045
	MF	2.275
	M4	2.696
	MS4	1.629

17.3 DAYS CENTERED AT DAY 51, 1986		
PT. TUPPER	K1	8.329
	O1	5.485
	M2	60.328
	S2	15.368
	N2	9.832
	MF	5.700
	M4	3.768
	MS4	2.735

TABLE 8 - CONTINUED

LOCATION	CONSTITUENT	121.0 DAYS CENTERED AT DAY 30, 1986	
		SEA LEVELS	
		AMP. (CM.)	PHASE (GMT)
NORTH SYDNEY	K1	6.497	312.06
	O1	8.380	285.10
	M2	36.734	354.49
	S2	11.943	26.94
	N2	7.479	330.08
	MF	1.137	252.22
	M4	.796	71.38
	MS4	.219	275.80

MOORING 719
DEPTH (M) 12

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5395
LATITUDE 44 32.91 N
LONGITUDE 63 3.55 W
WATER DEPTH (M) 61
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.29
SAMPLE INTERVAL 30 MINUTES

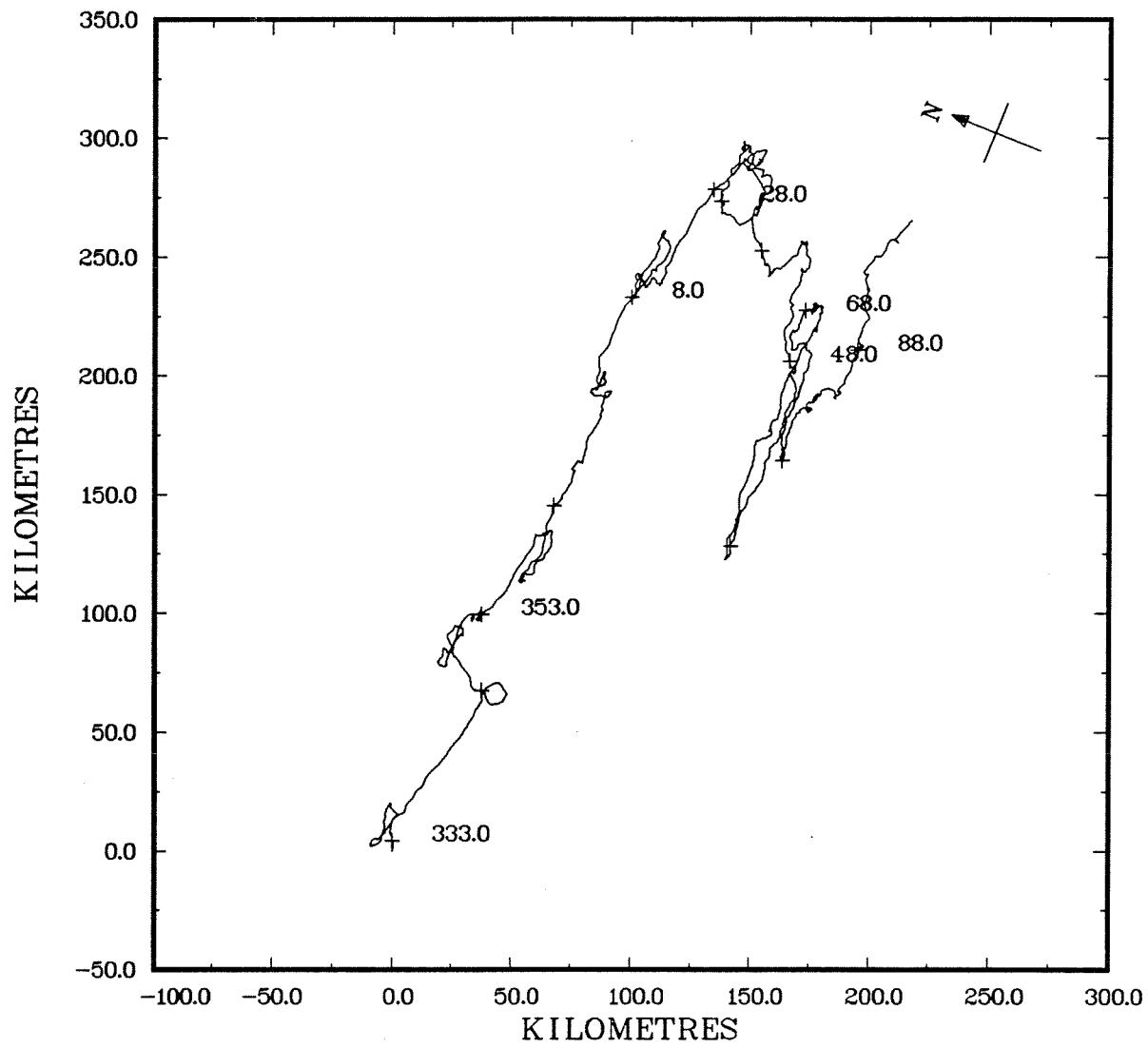
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.146	.022	.626	.074	6110
U(158° T) COMP VEL(M/S)	.020	-.293	.461	.089	6110
V(68° T) COMP VEL(M/S)	.024	-.356	.588	.134	6110
TEMPERATURE(DEG.C.)	1.402	-1.472	6.821	2.178	6110
SALINITY	31.372	30.704	32.046	.240	6110
SIGMA-T(KG/M**3)	25.075	24.068	25.605	.304	6110

COMMENTS

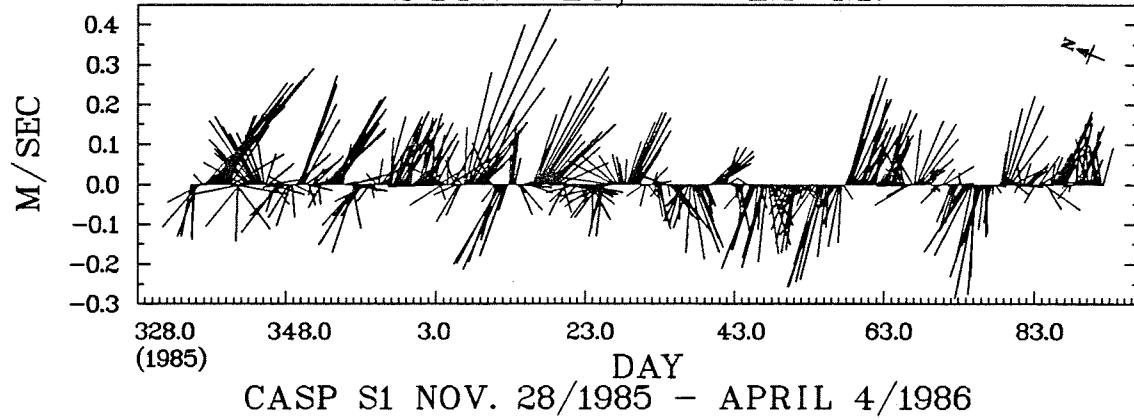
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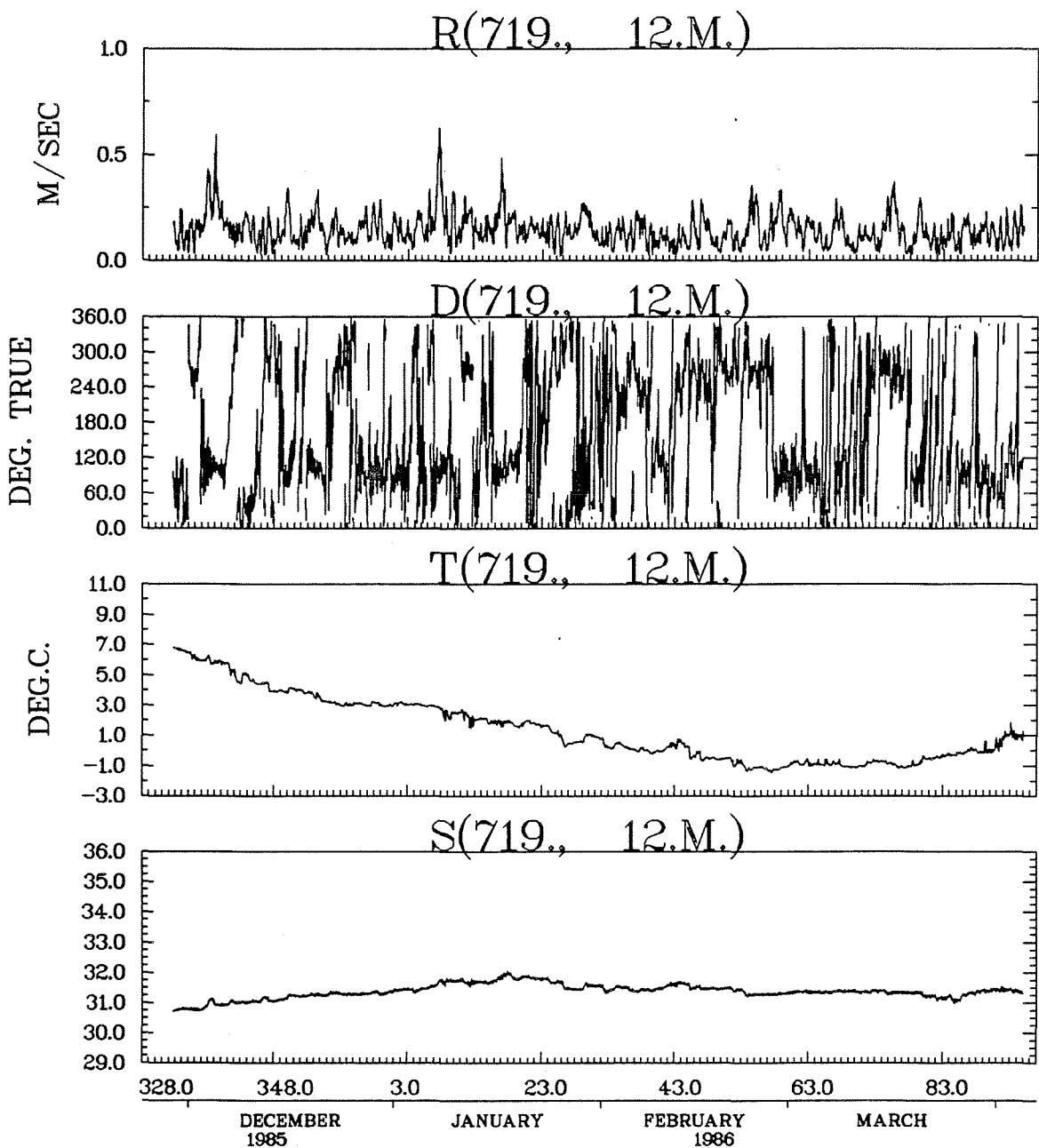
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STN. 719, 12 M.

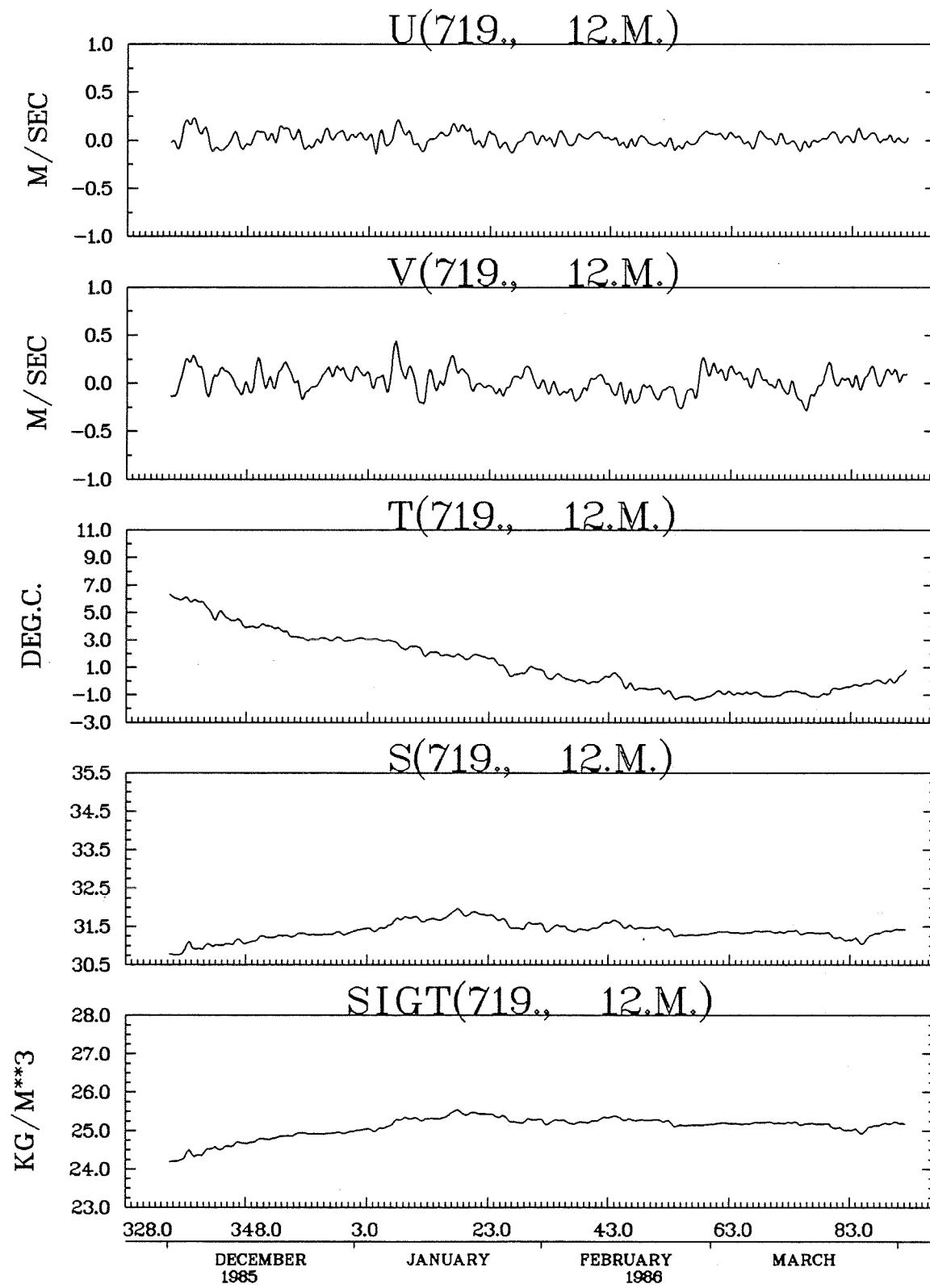


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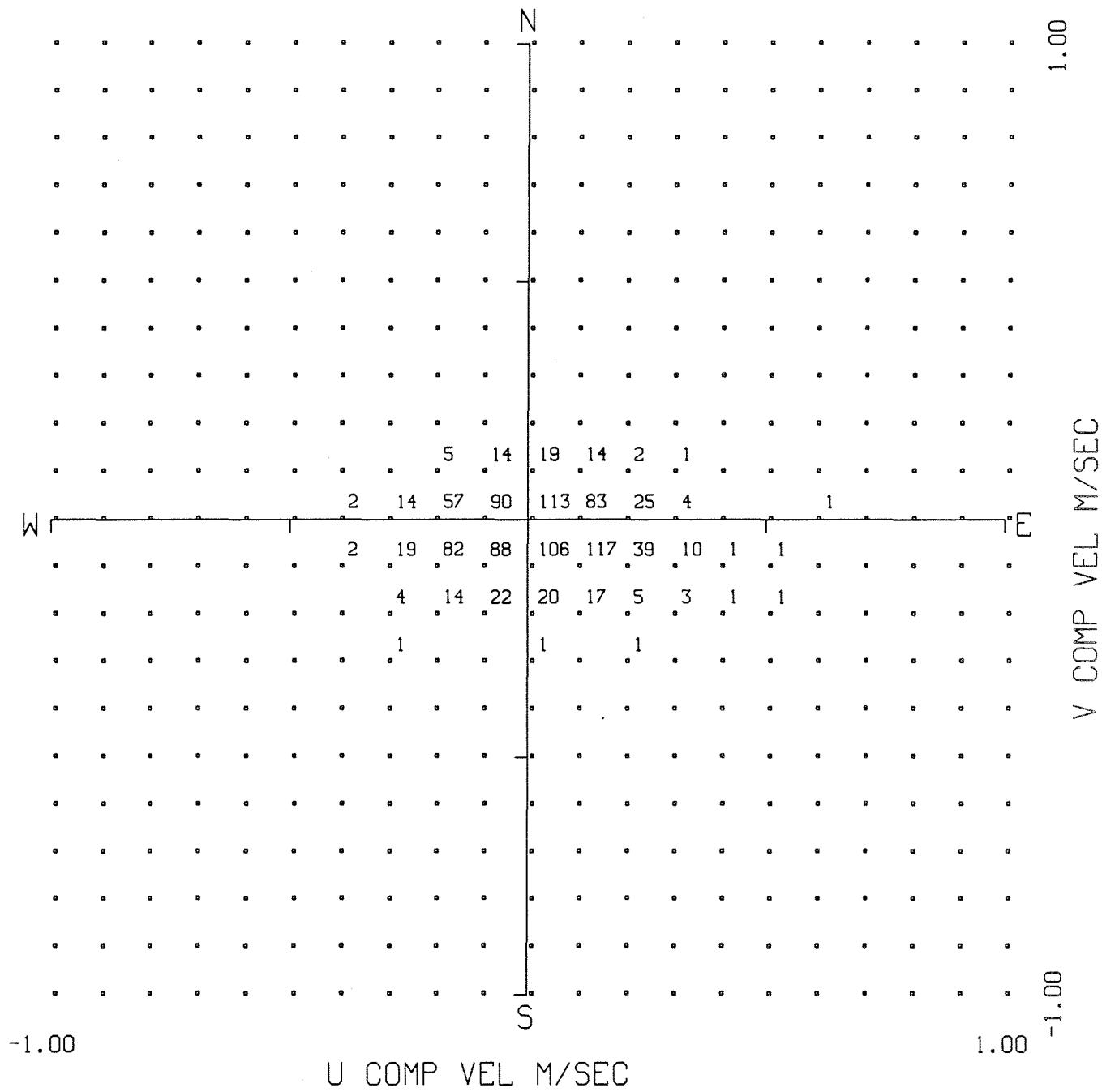




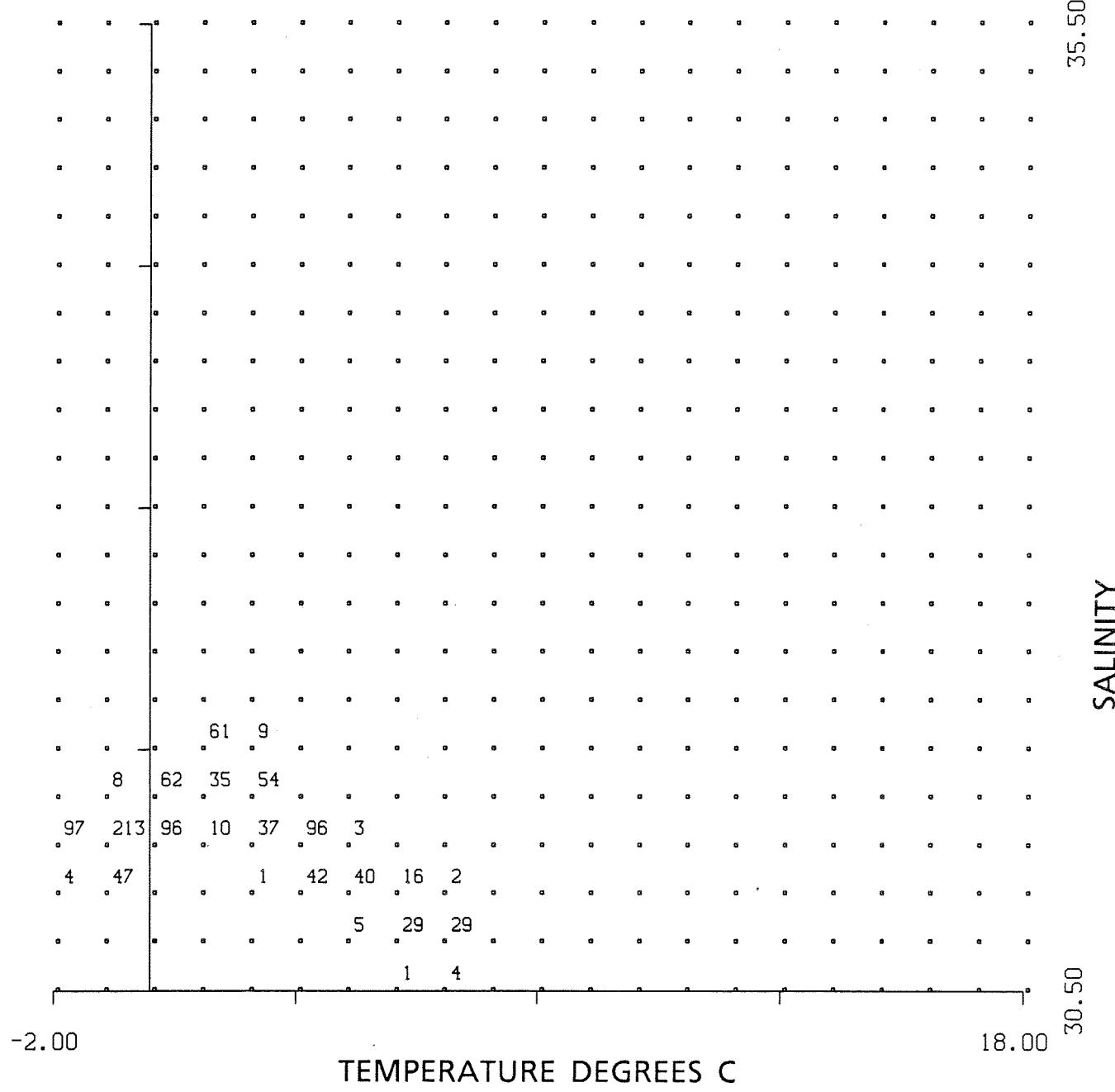
CASP S1 NOV. 28/1985 – APRIL 4/1986



CASP S1 NOV. 28/1985 – APRIL 4/1986



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 START TIME 28/11/ 85 15:59:55.5 GMT
 FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 719 DEPTH 12 M.
 START TIME 28/11/ 85 15:59:55.5 GMT
 FREQUENCY UNIT 0.1%

MOORING 719
DEPTH (M) 25

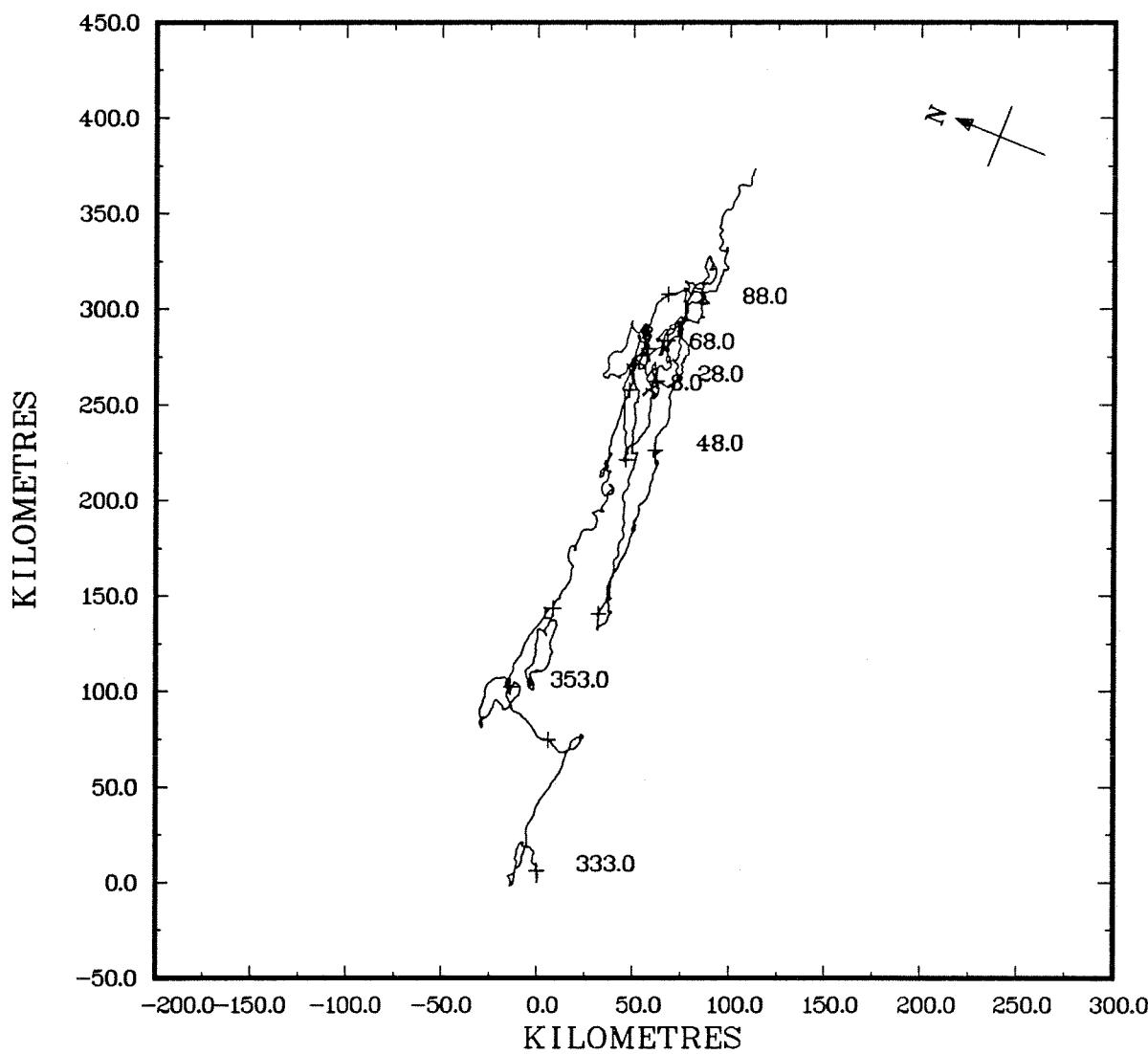
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SERIAL NUMBER 4421
LATITUDE 44 33.04 N
LONGITUDE 63 3.62 W
WATER DEPTH (M) 55
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.29
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.206	.058	.657	.079	6110
U(158° T) COMP VEL(M/S)	.010	-.458	.443	.123	6110
V(68° T) COMP VEL(M/S)	.034	-.449	.638	.180	6110
TEMPERATURE(DEG.C.)	1.397	-1.512	6.800	2.193	6110
SALINITY	31.543	30.738	32.178	.255	6110
SIGMA-T(KG/M**3)	25.212	24.095	25.716	.328	6110

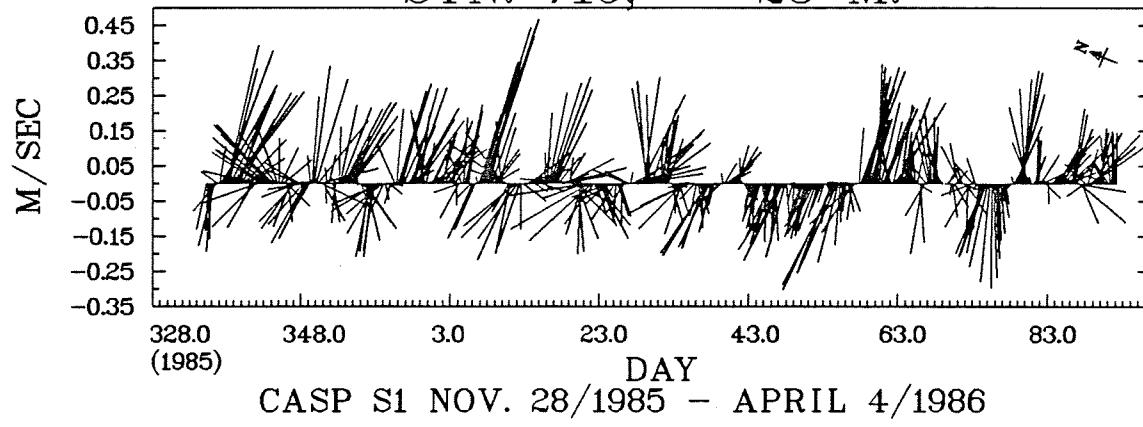
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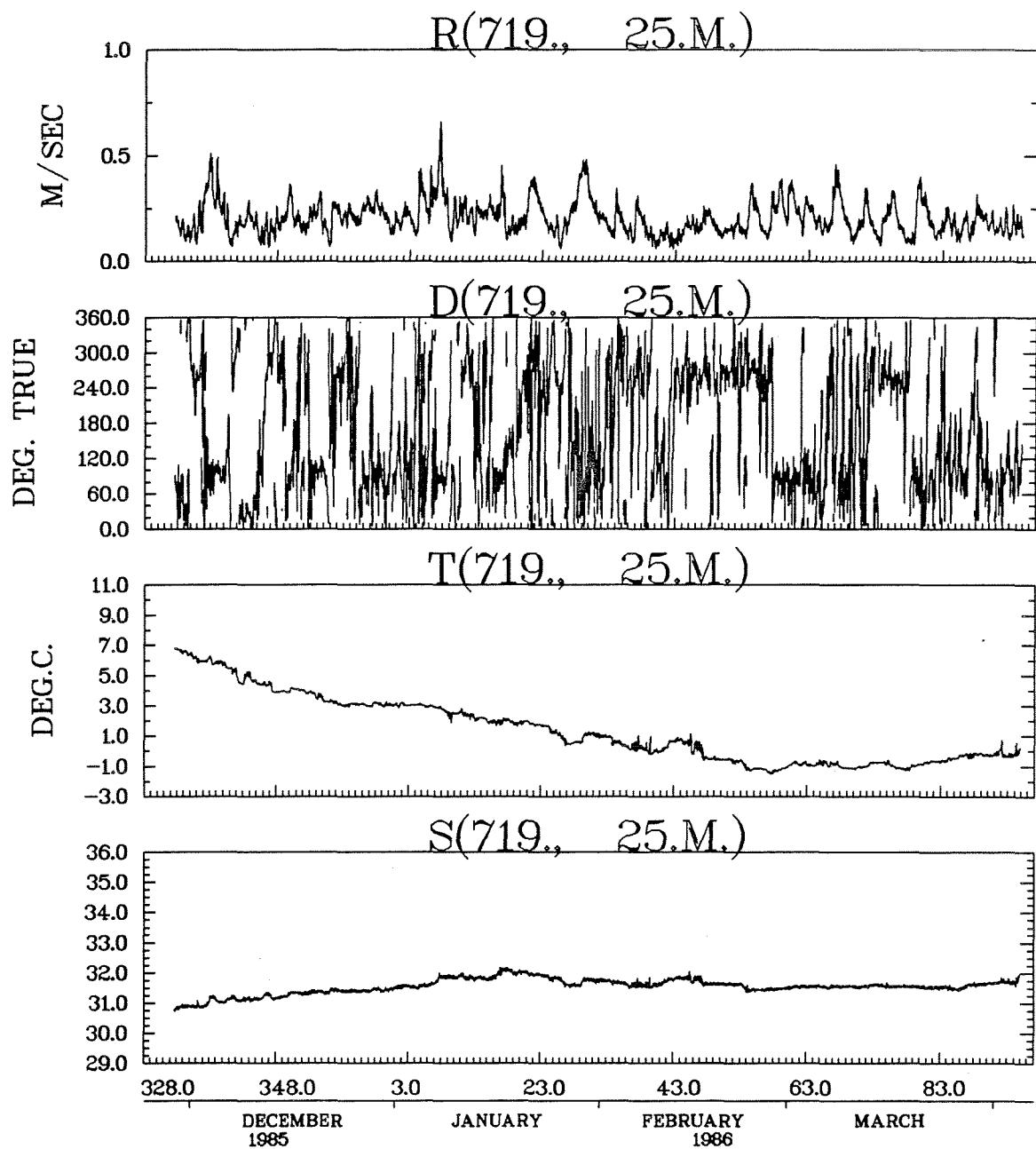
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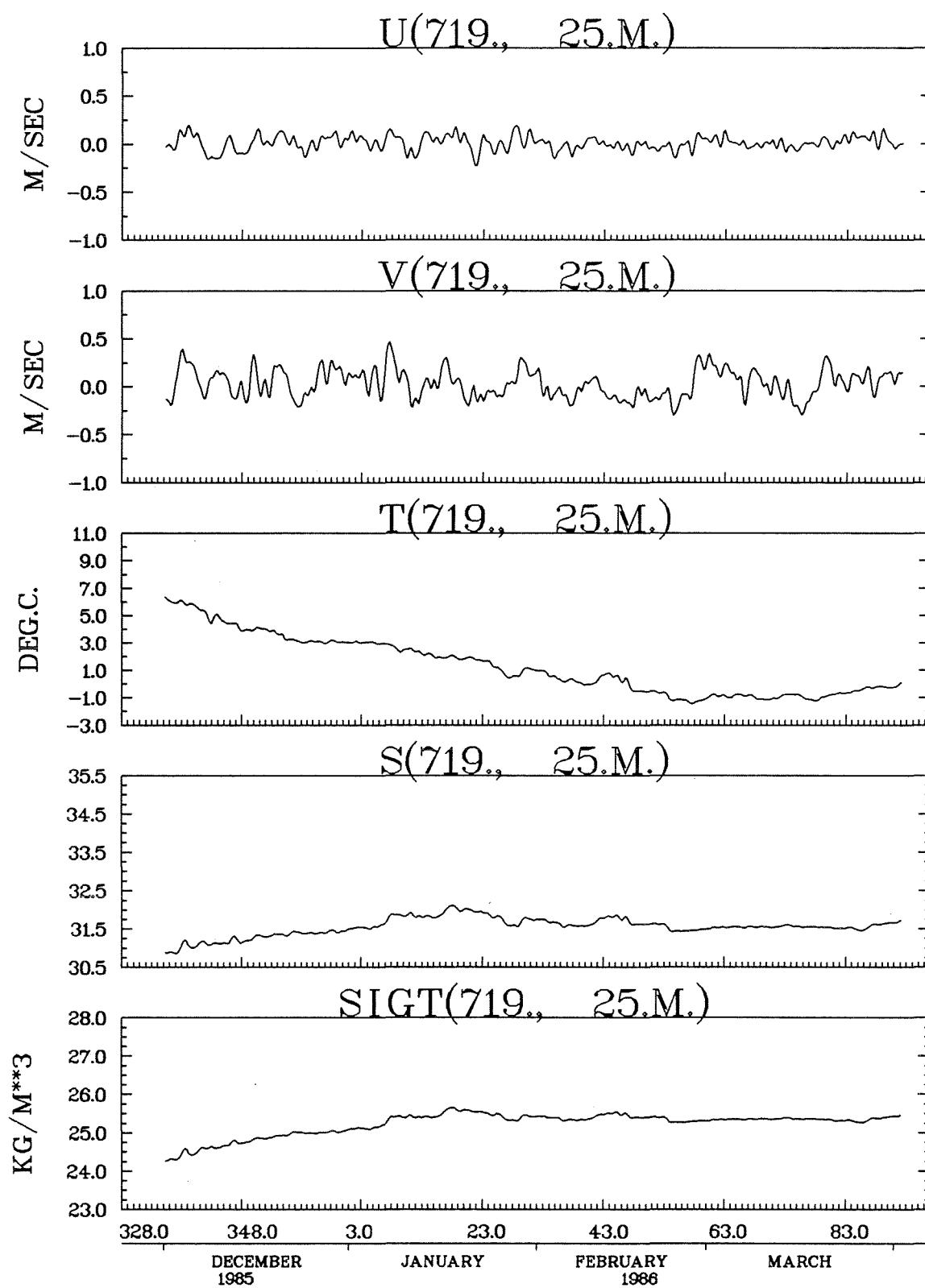


STN. 719, 25 M.

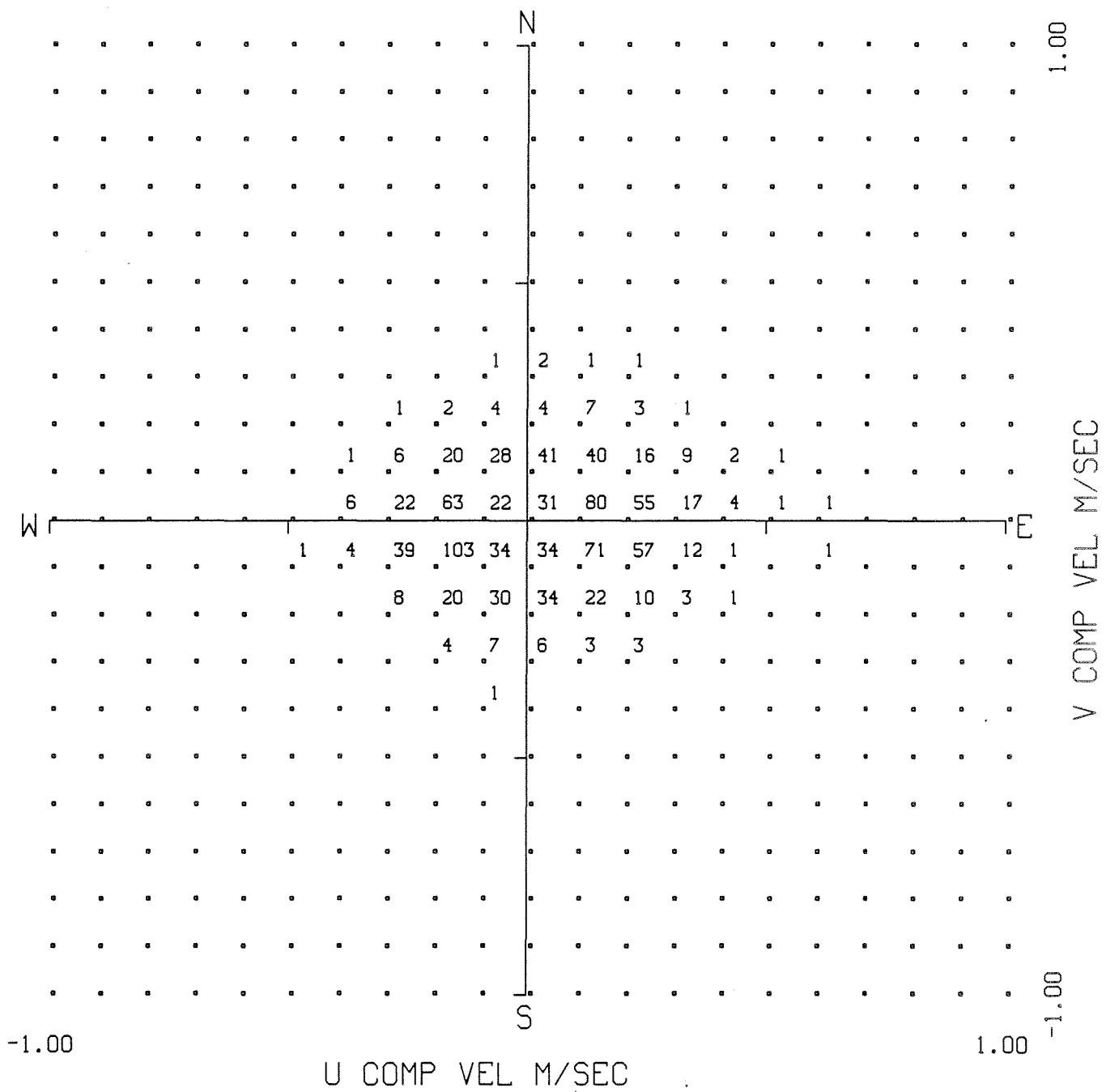




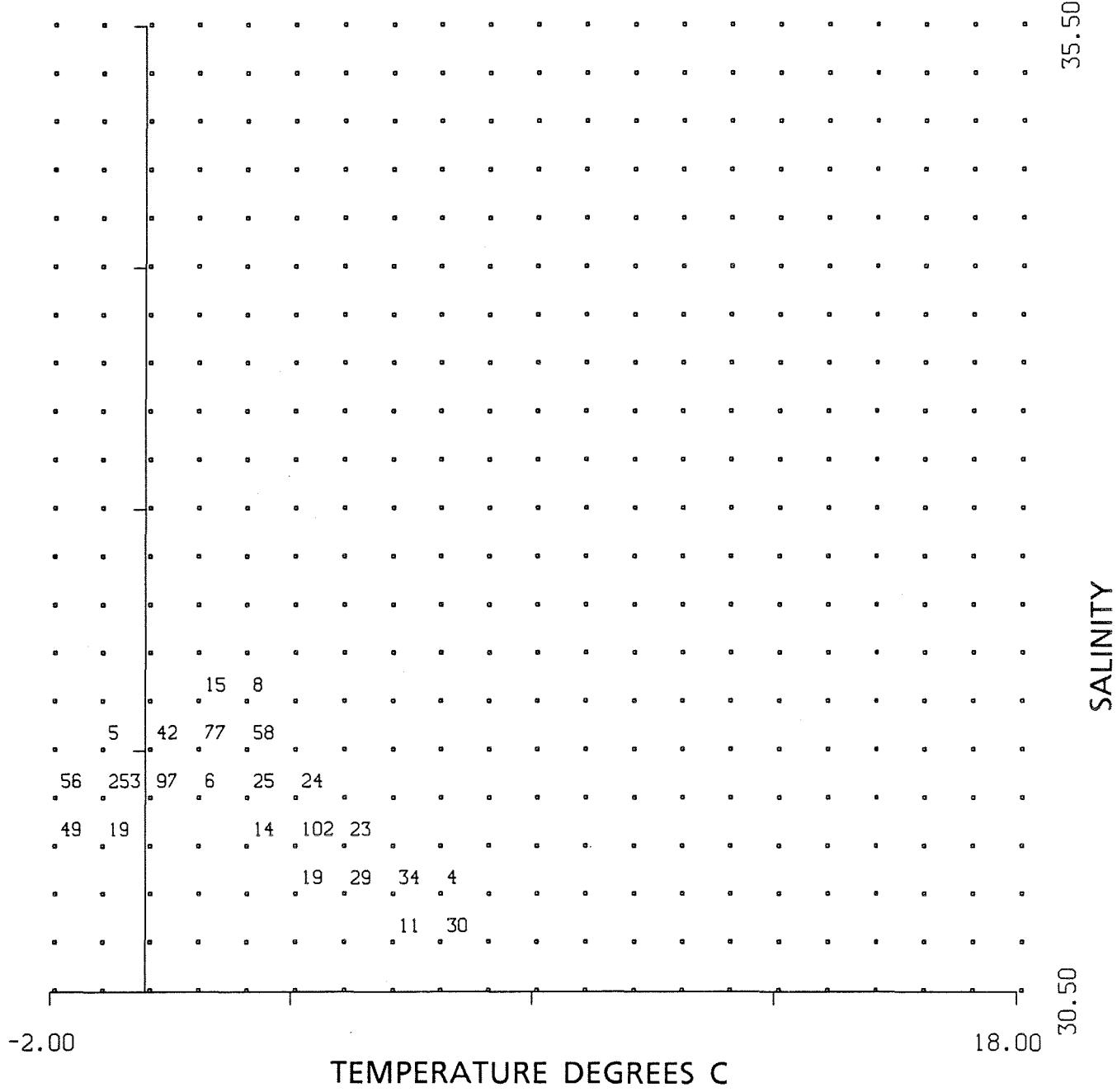
CASP S1 NOV. 28/1985 – APRIL 4/1986



CASP S1 NOV. 28/1985 – APRIL 4/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 719 DEPTH 25 M.
 START TIME 28/11/ 85 15:59:55.5 GMT
 FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 719 DEPTH 25 M.
START TIME 28/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 719
DEPTH (M) 45

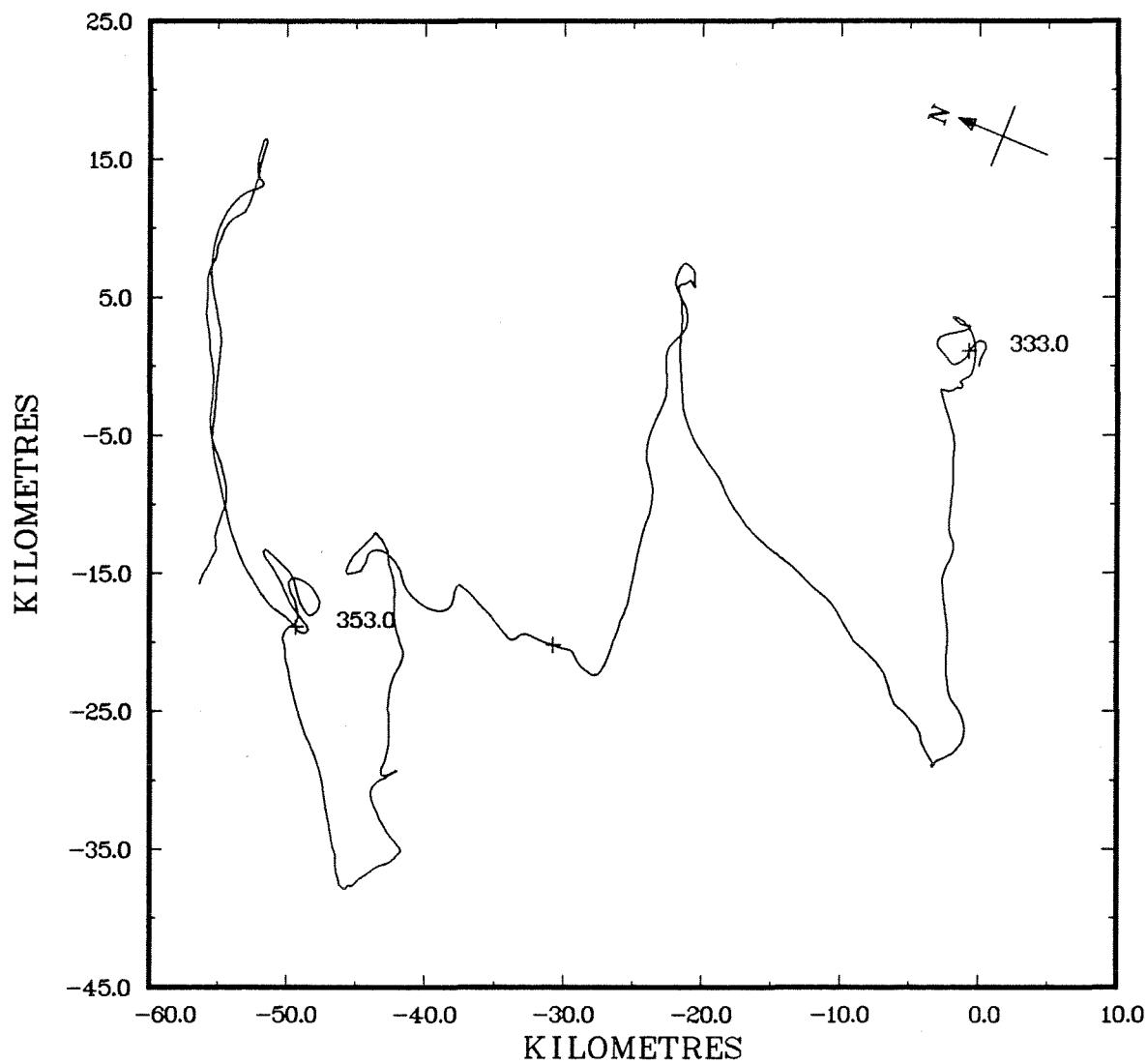
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 1286
LATITUDE 44 33.04 N
LONGITUDE 63 3.62 W
WATER DEPTH (M) 55
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.29
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.134	.034	.390	.064	1265
U(158° T) COMP VEL (M/S)	-.025	-.274	.168	.064	1265
V(68° T) COMP VEL (M/S)	-.007	-.263	.341	.132	1265
TEMPERATURE(DEG.C.)	1.980	-1.417	6.940	1.975	6110
SALINITY	31.600	30.701	32.994	.349	6110

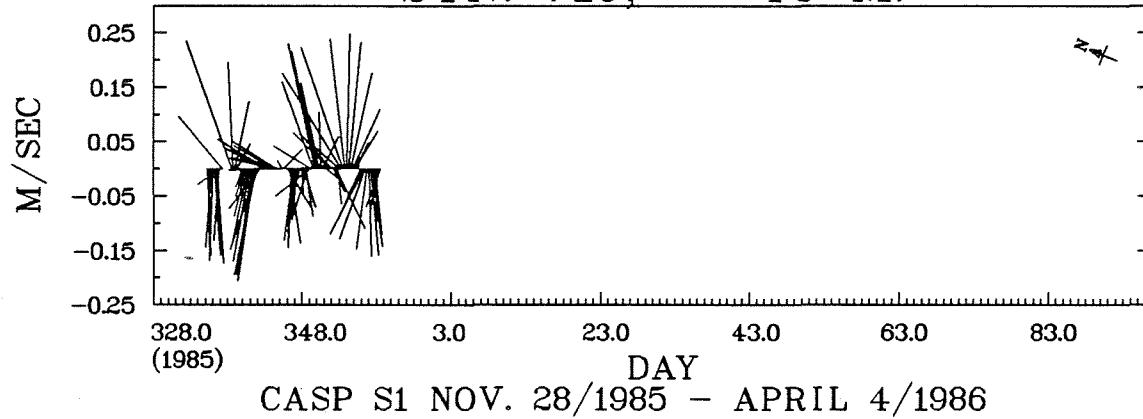
COMMENTS

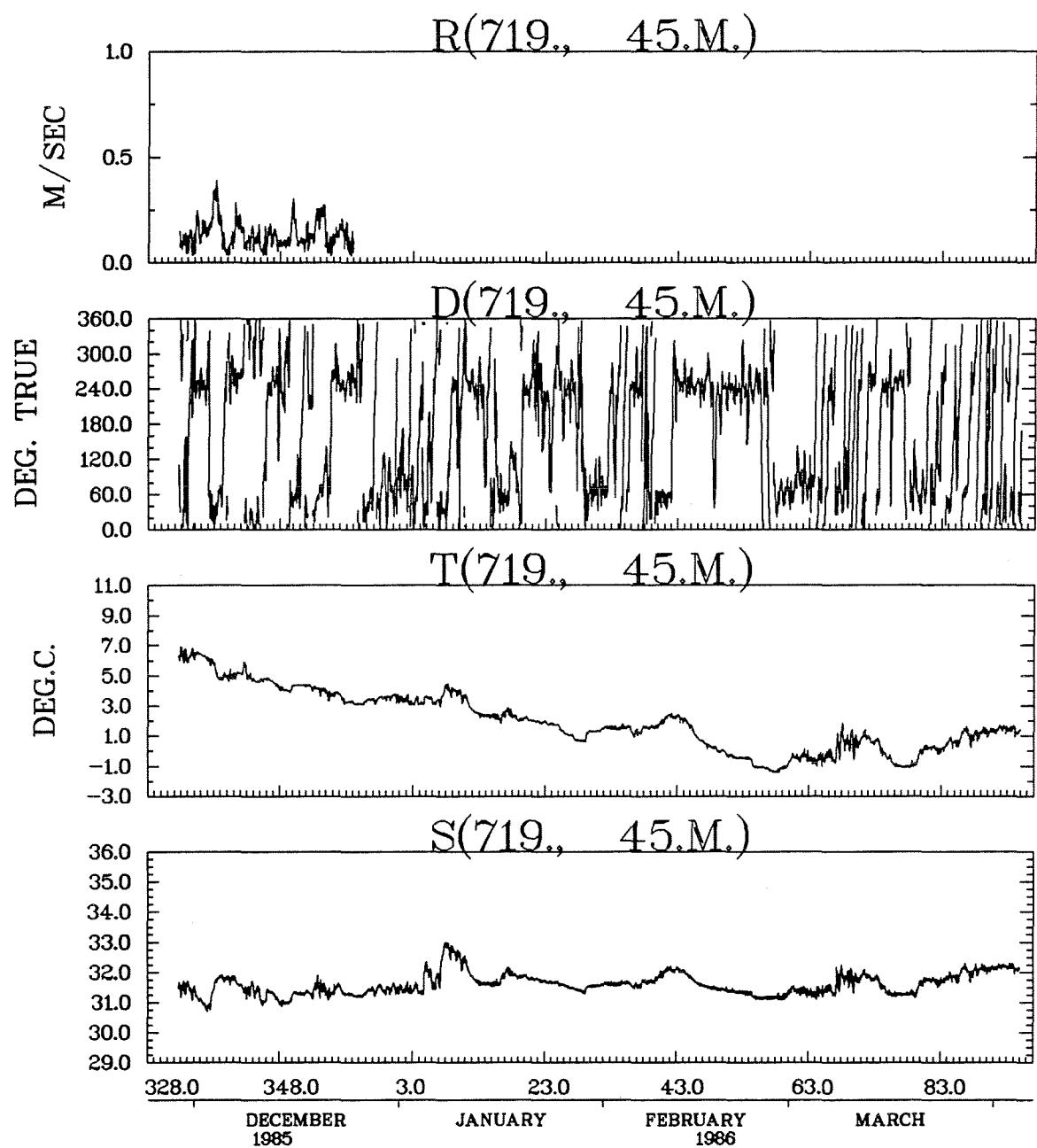
TEMPERATURE AND SALINITY HEAVILY EDITED
NO RATE AFTER DAY 359 1985 (ROTOR STIFF)

STN. 719, 45 M.

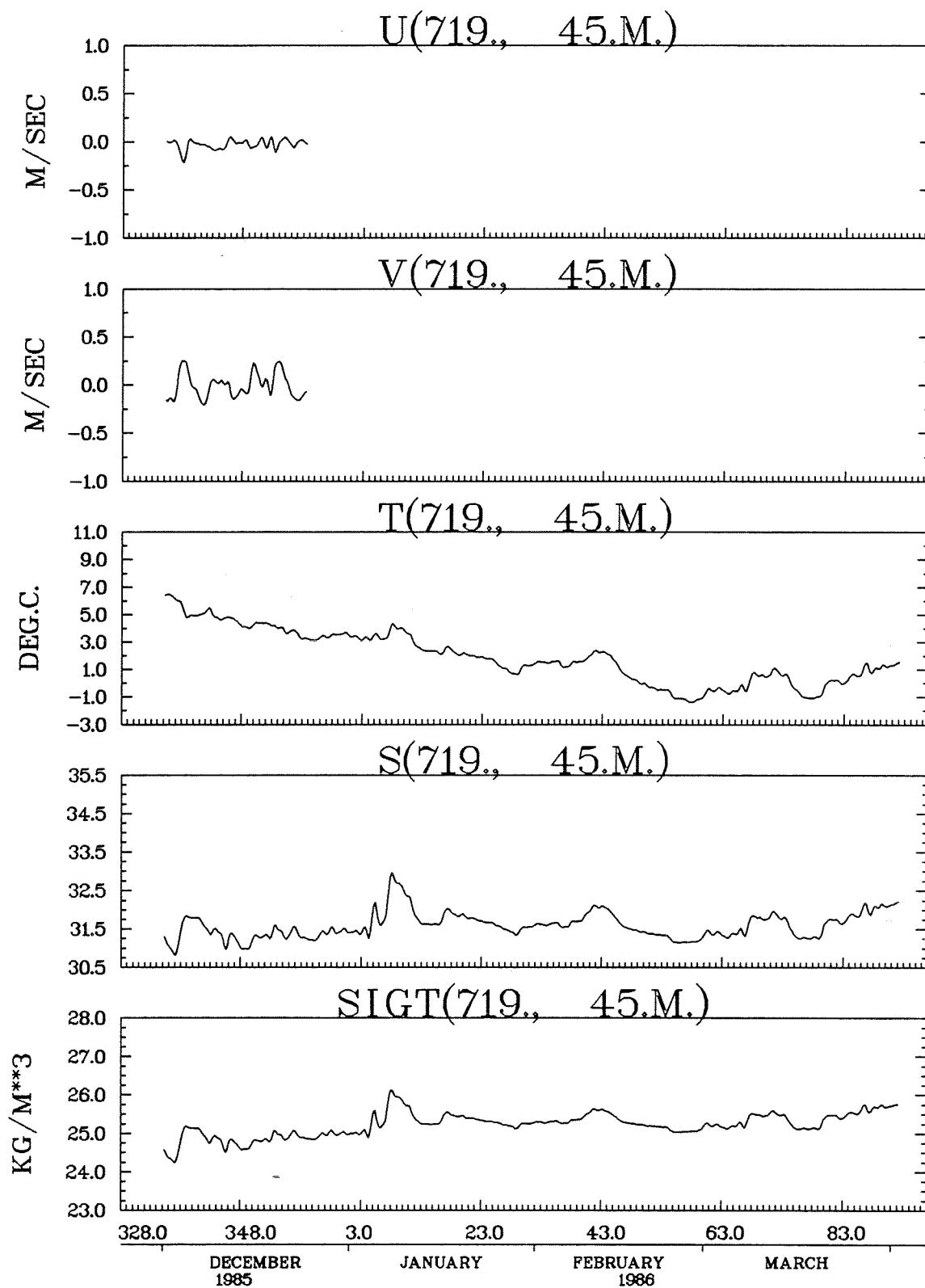


STN. 719, 45 M.

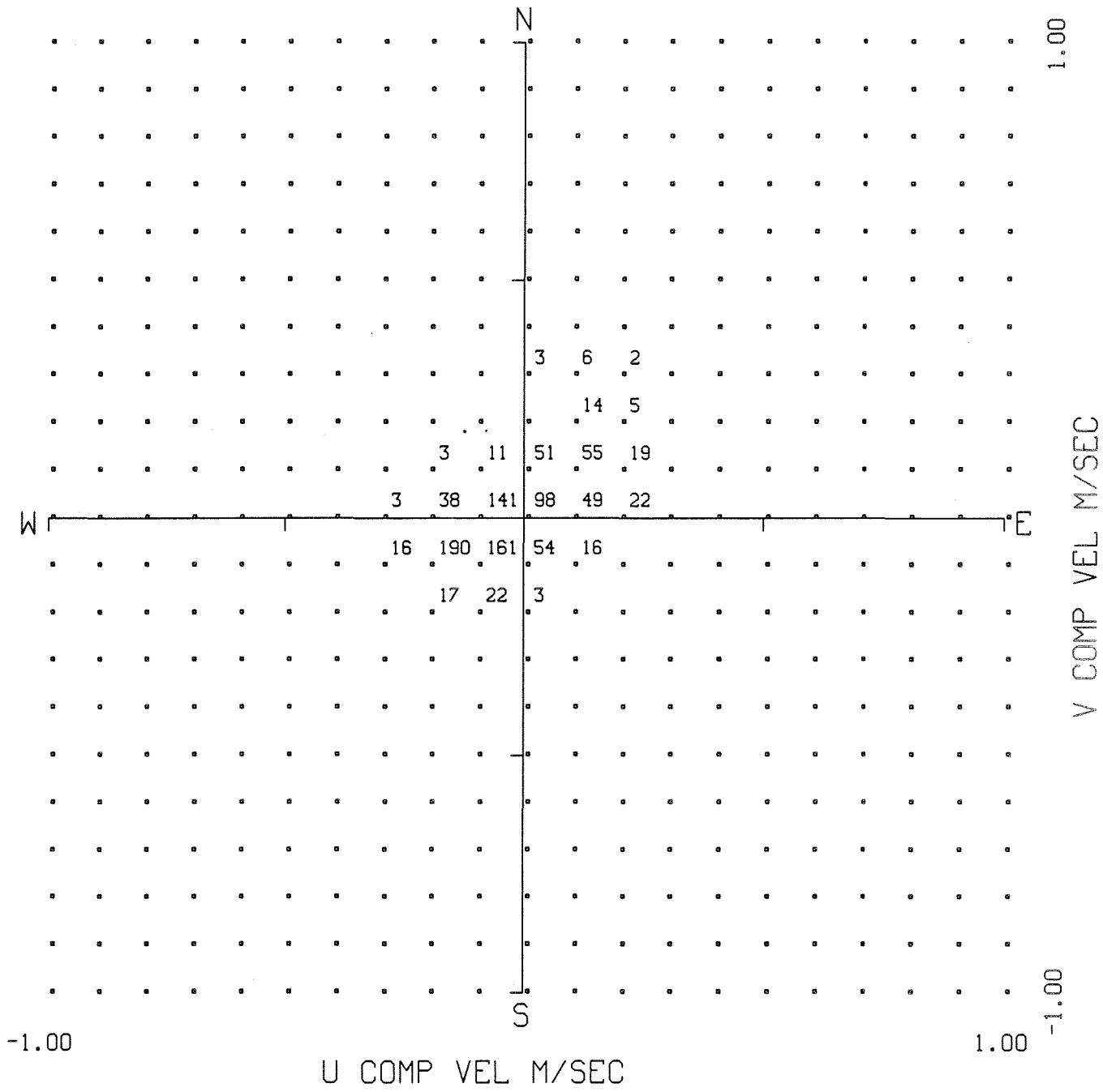




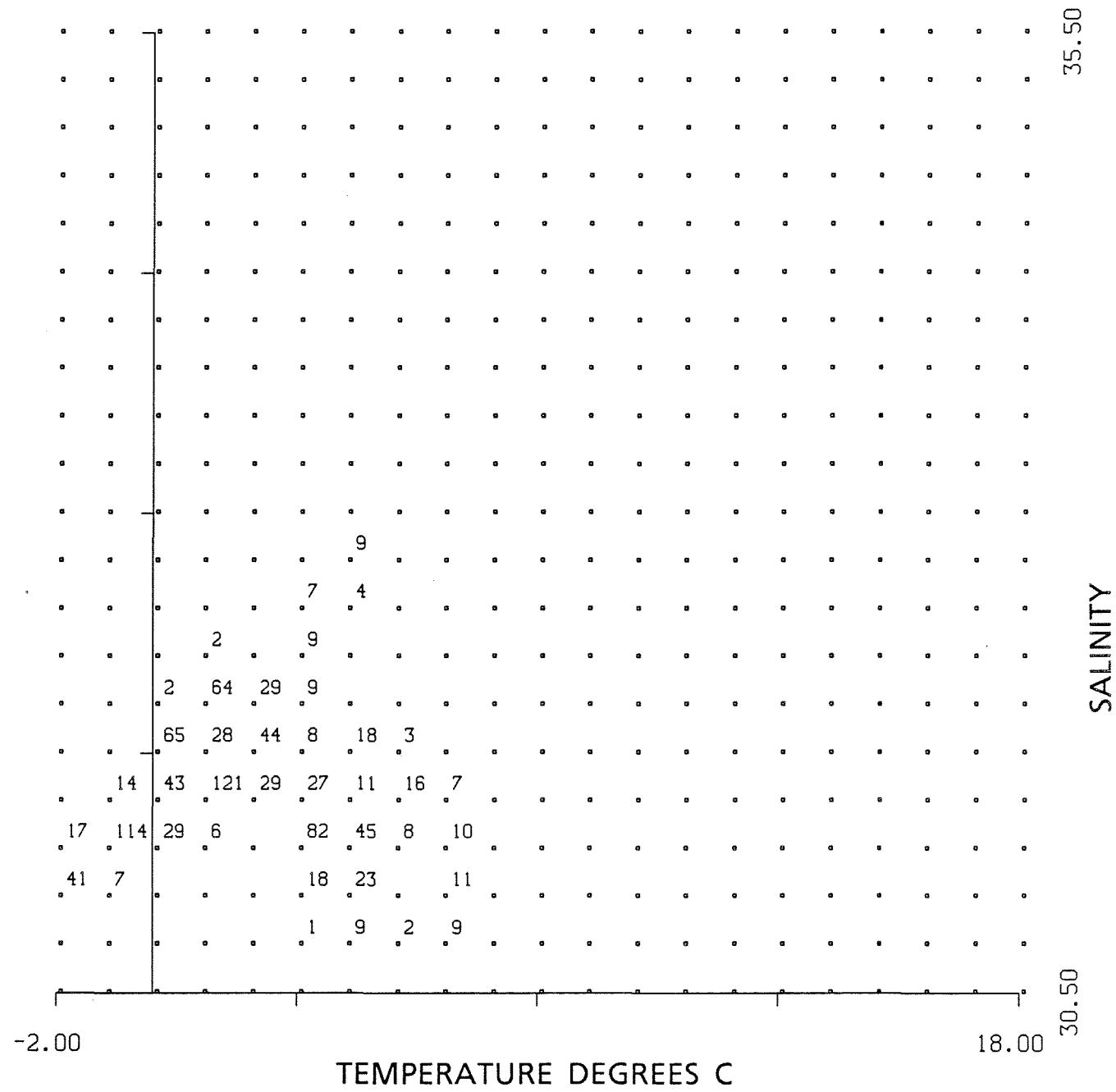
CASP S1 NOV. 28/1985 – APRIL 4/1986



CASP S1 NOV. 28/1985 - APRIL 4/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 719 DEPTH 45 M.
 START TIME 28/11/ 85 15:59:55.5 GMT
 FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 719 DEPTH 45 M.
START TIME 28/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%

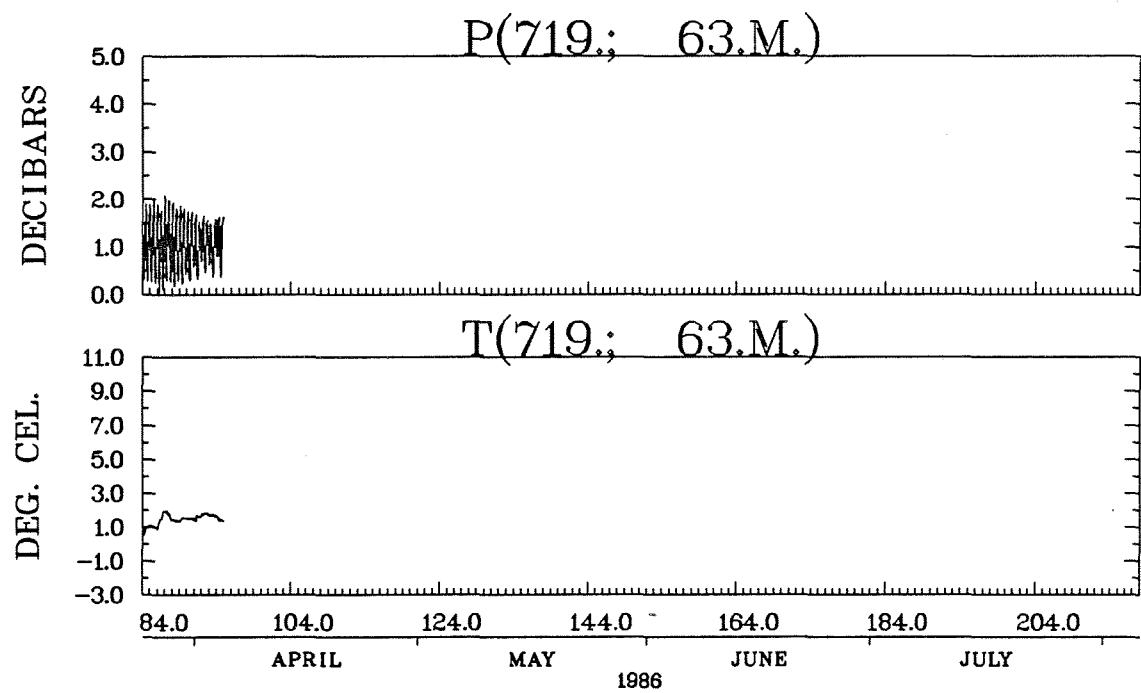
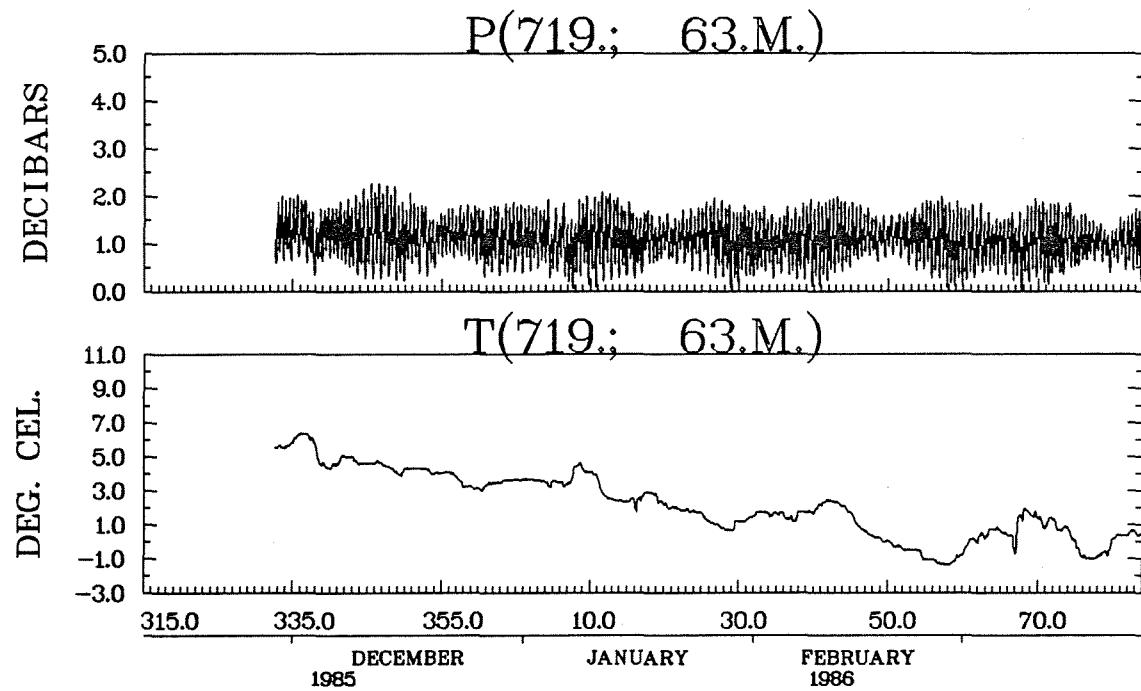
MOORING 719
DEPTH (M) 63

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 109
LATITUDE 44 2.84 N
LONGITUDE 63 3.51 W
WATER DEPTH (M) 63
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.29
SAMPLE INTERVAL 60 MINUTES

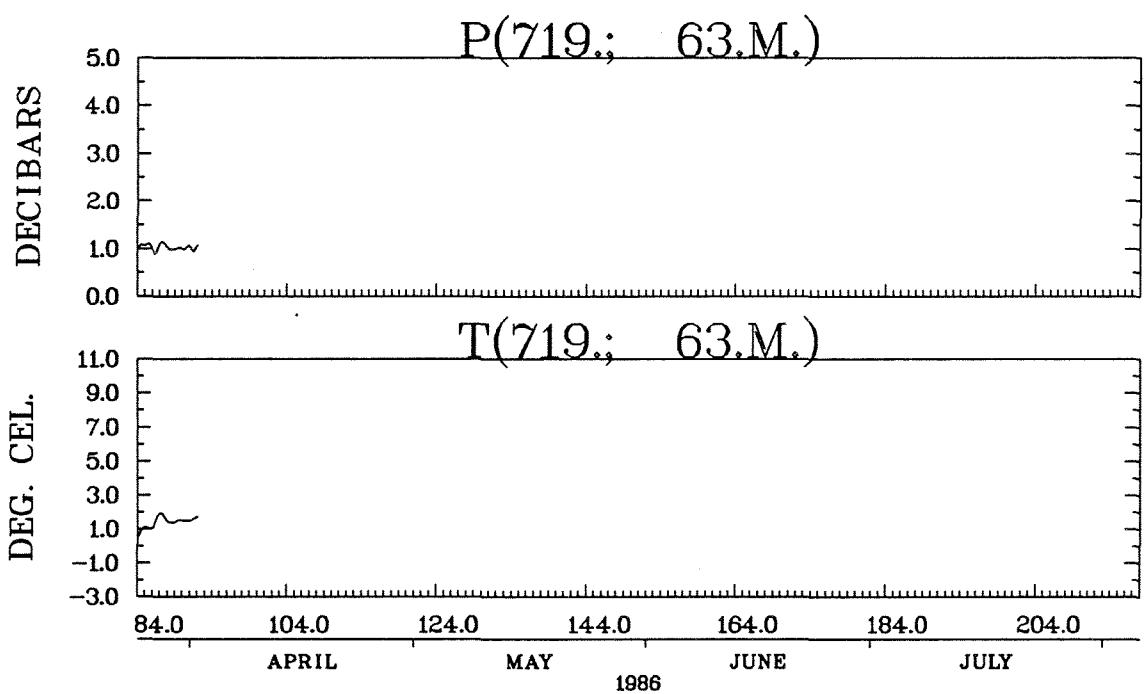
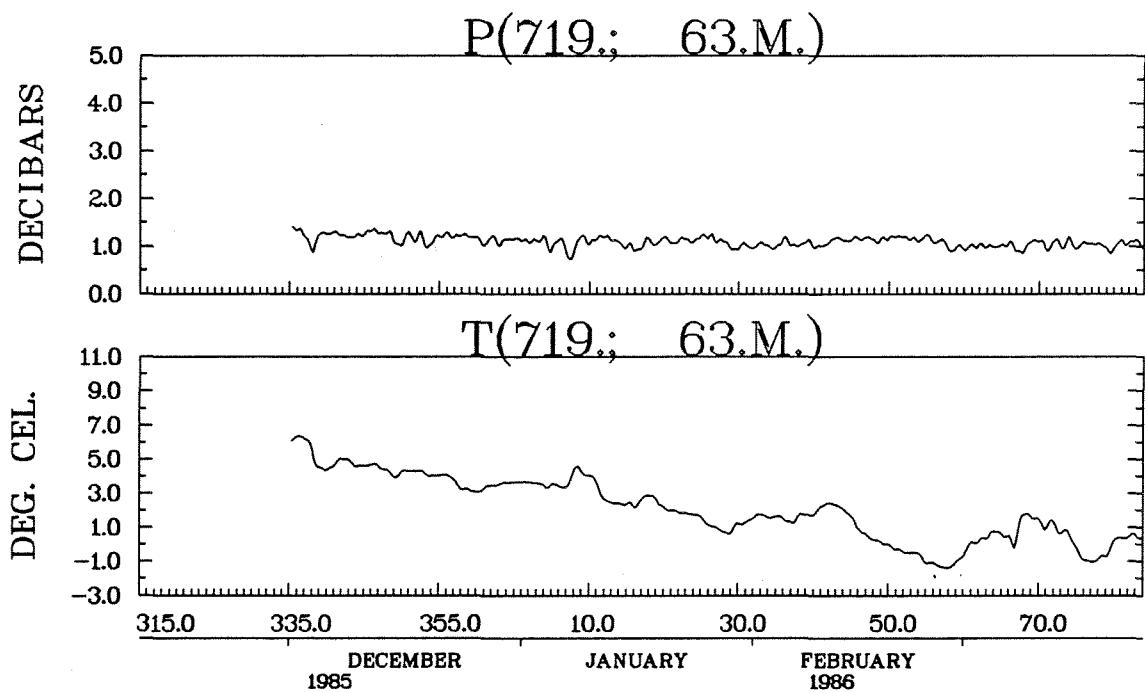
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	2.107	-1.380	6.390	1.841	3055
PRESSURE(DECIBARS)	1.106	.000	2.270	.466	3055

COMMENTS

PRESSURE WRAP AROUNDS WERE CORRECTED.



CASP S1 NOV. 28/1985 – APRIL 4/1986



CASP S1 NOV. 28/1985 – APRIL 4/1986

HISTOGRAM OF T(719.; 63.M.) DEG. CEL.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	117	3.8
-1.00	-.50	149	4.9
-.50	0.00	130	4.3
0.00	.50	228	7.5
.50	1.00	257	8.4
1.00	1.50	338	11.1
1.50	2.00	471	15.4
2.00	2.50	205	6.7
2.50	3.00	107	3.5
3.00	3.50	218	7.1
3.50	4.00	215	7.0
4.00	4.50	285	9.3
4.50	5.00	164	5.4
5.00	5.50	41	1.3
5.50	6.00	68	2.2
6.00	6.50	62	2.0
6.50	7.00	0	0.0
7.00	7.50	0	0.0
7.50	8.00	0	0.0

83

TOTAL NO. OF SAMPLES 3055

OUTSIDE RANGE 0

MOORING 758
DEPTH (M) 2.6

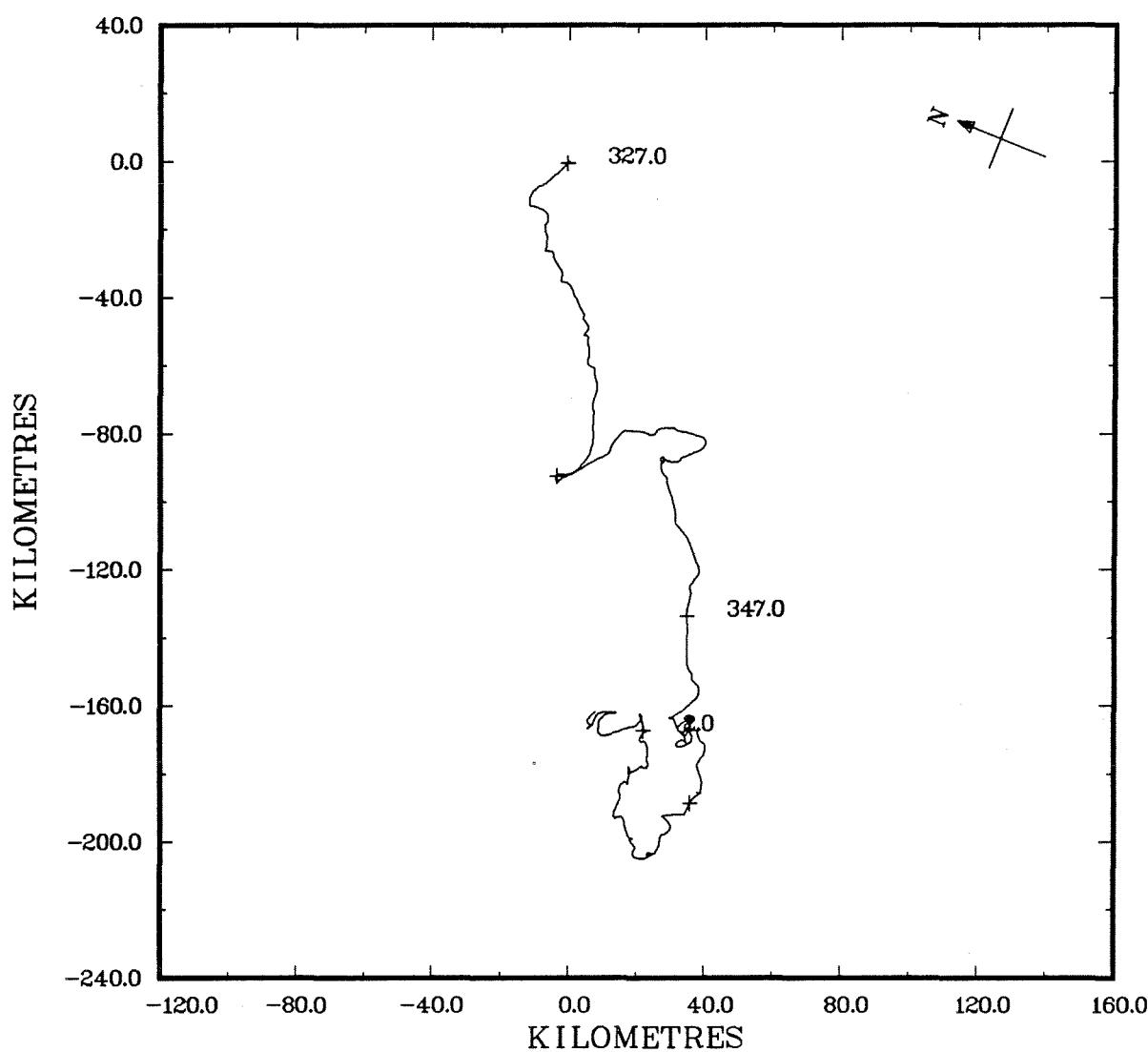
INSTRUMENT TYPE S4
SERIAL NUMBER 04410744
LATITUDE 44 27.40 N
LONGITUDE 63 9.10 W
WATER DEPTH (M) 96
MOORING DATE ; CRUISE 22/11/1985 ; 85-040
DURATION (DAYS) 131.65
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/S)	.131	.002	.477	.077	2173
U(158° T) COMP VEL(M/S)	.002	-.306	.283	.093	2173
V(68° T) COMP VEL(M/S)	-.043	-.476	.293	.113	2173
TEMPERATURE(DEGREES C)	.765	-2.458	7.903	2.553	6319
SALINITY	26.886	24.400	31.500	1.915	6319
SIGMA-T(KG/M**3)	21.476	19.560	24.676	1.408	6319

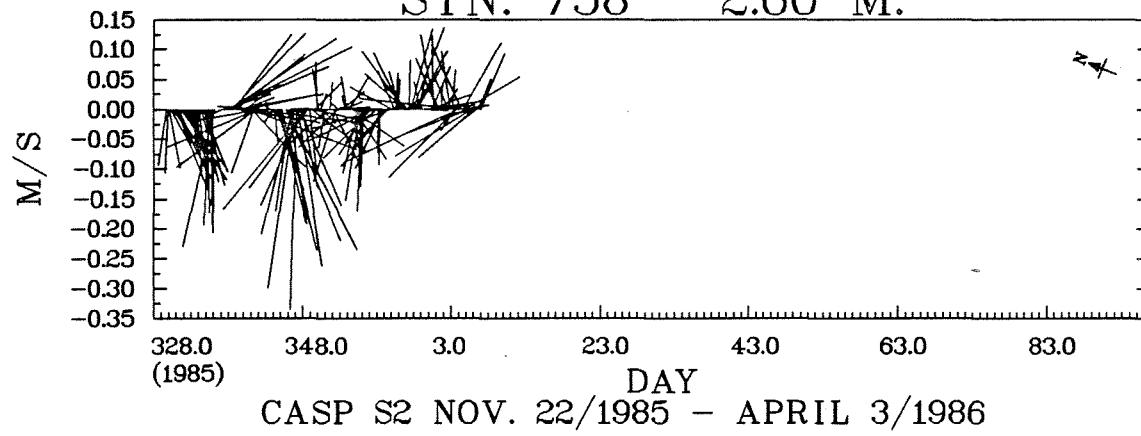
COMMENTS

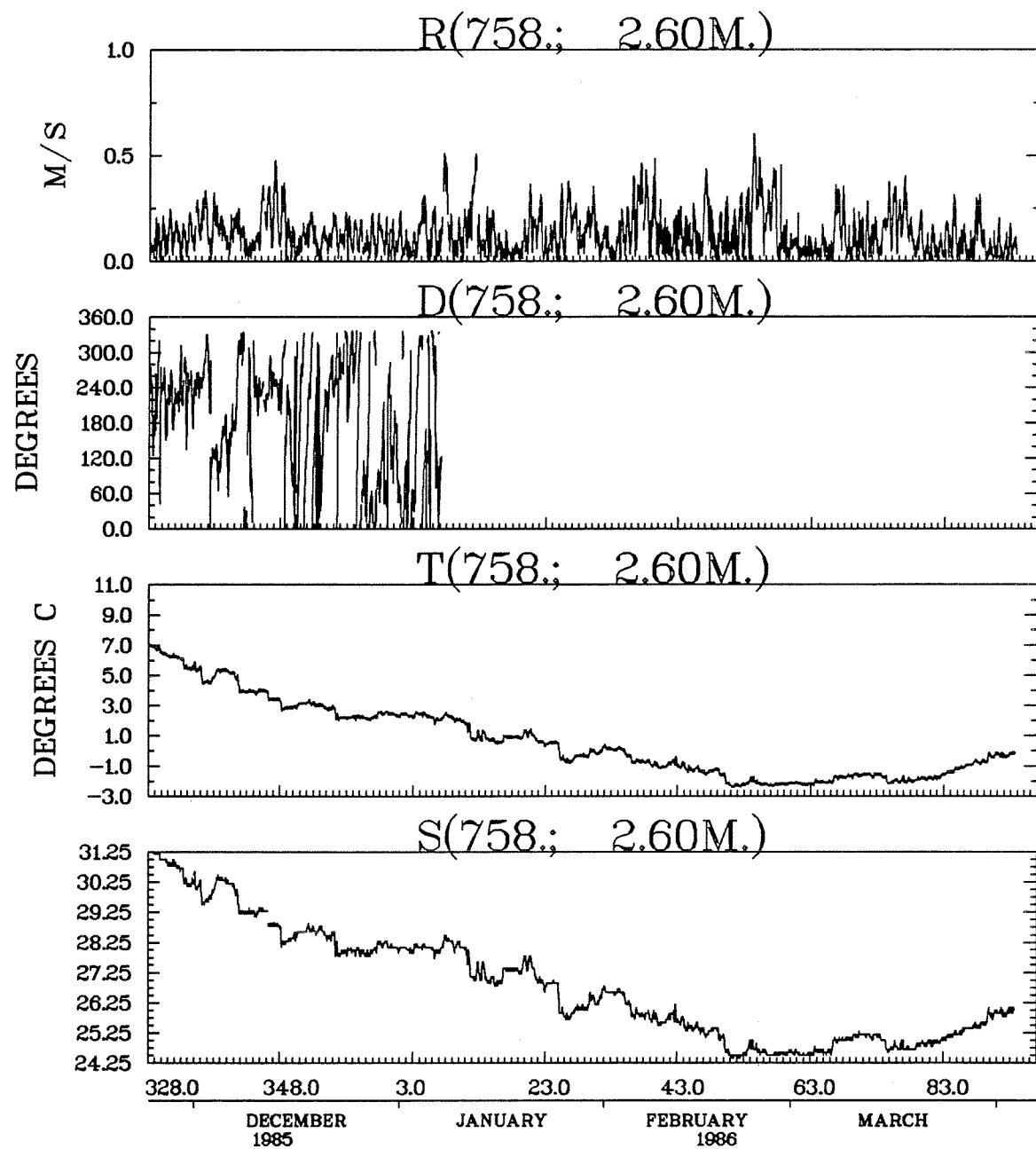
COMPASS FAILURE FROM DAY 7 1986 TO END OF RECORD
 U - V AND DIRECTION CHANNELS WERE SET TO NO DATA FROM
 DAY 7 1986 TO END OF RECORD
 RATE CHANNEL SPIKEY FROM DAY 7 1986 TO END OF RECORD
 RATE APPEARS TO BE OK AFTER EDITING
 DRIFT IN TEMPERATURE AND SALINITY CHANNELS
 LAB TESTS SHOW DRIFT TO BE NON-LINEAR

STN. 758 2.60 M.

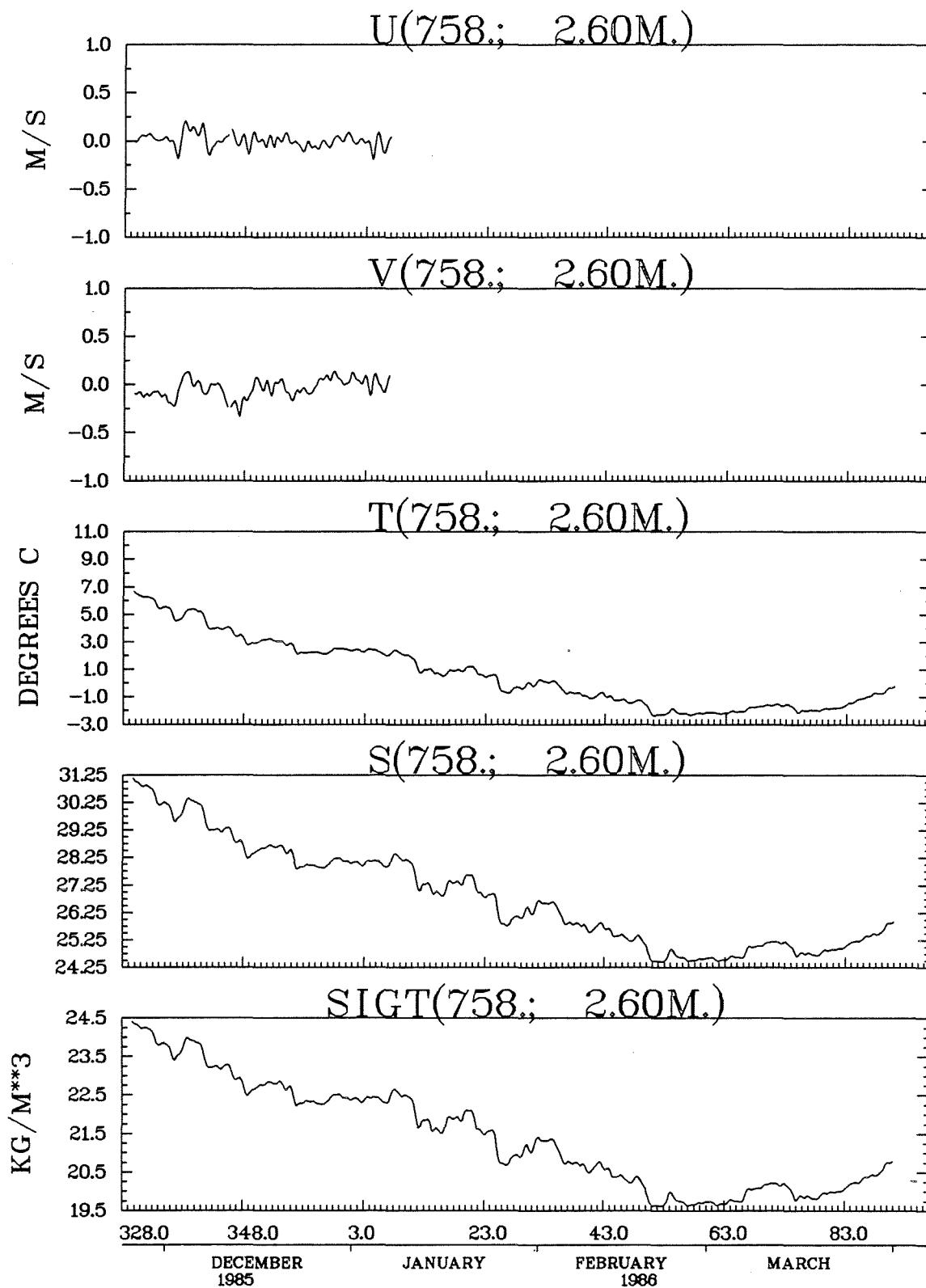


STN. 758 2.60 M.

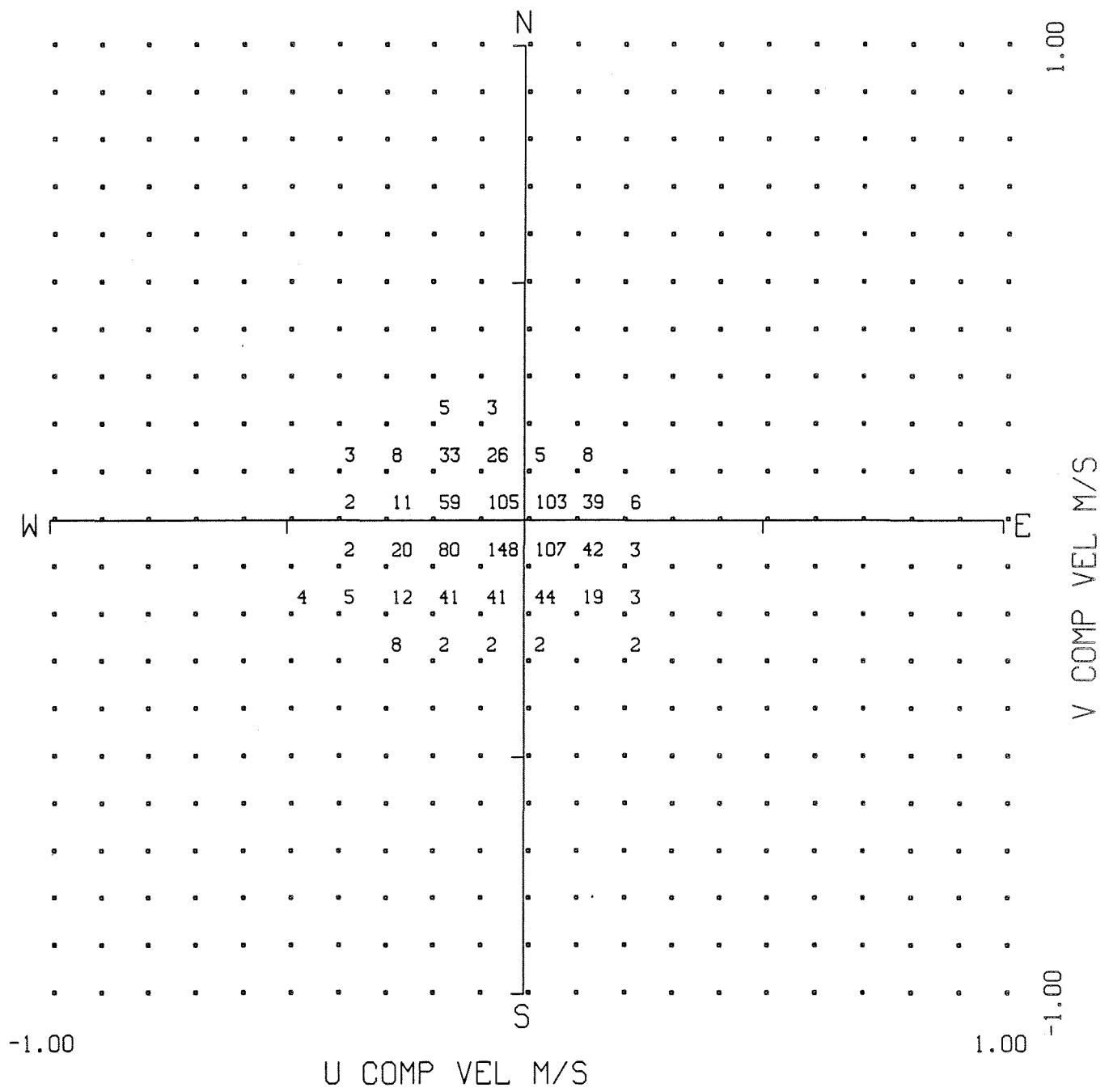




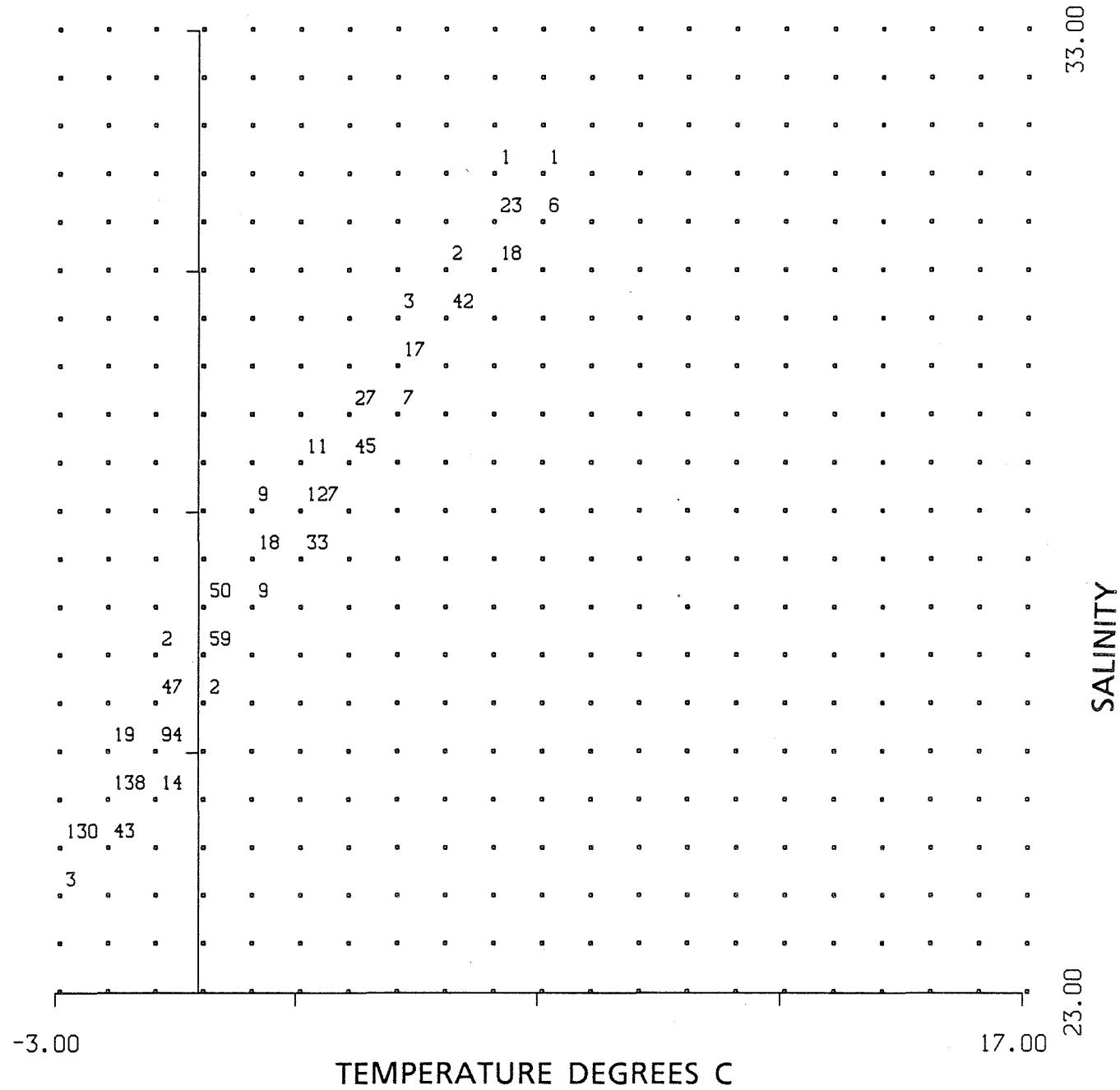
CASP S2 NOV. 22/1985 – APRIL 3/1986



CASP S2 NOV. 22/1985 – APRIL 3/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 758 DEPTH 2.60 M.
START TIME 22/11/1985 23:50: .0 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 758 DEPTH 2.60 M.
 START TIME 22/11/1985 23:20: .0 GMT
 FREQUENCY UNIT 0.1%

MOORING 758
DEPTH (M) 5

INSTRUMENT TYPE S4
SERIAL NUMBER 4430830
LATITUDE 44 27.66 N
LONGITUDE 62 58.48 W
WATER DEPTH (M) 96
MOORING DATE ; CRUISE 22/11/1985 ; 85-040
DURATION (DAYS) 0.0
SAMPLE INTERVAL 30 MINUTES

COMMENTS

INSTRUMENT MALFUNCTIONED. NO DATA AVAILABLE.

MOORING 757
DEPTH (M) 18

INSTRUMENT TYPE RANDERAA RCM
SERIAL NUMBER 5577
LATITUDE 44 27.55 N
LONGITUDE 62 59.27 W
WATER DEPTH (M) 108
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.06
SAMPLE INTERVAL 30 MINUTES

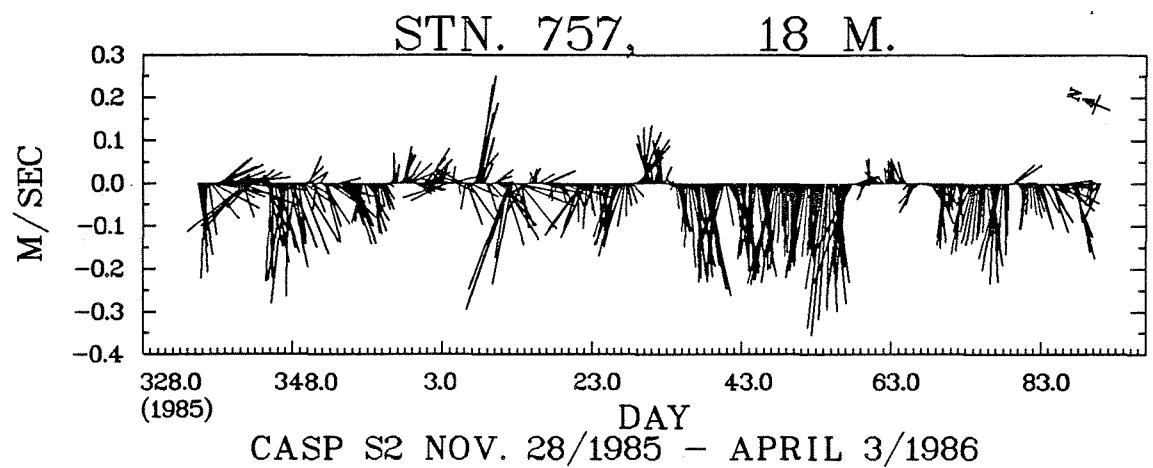
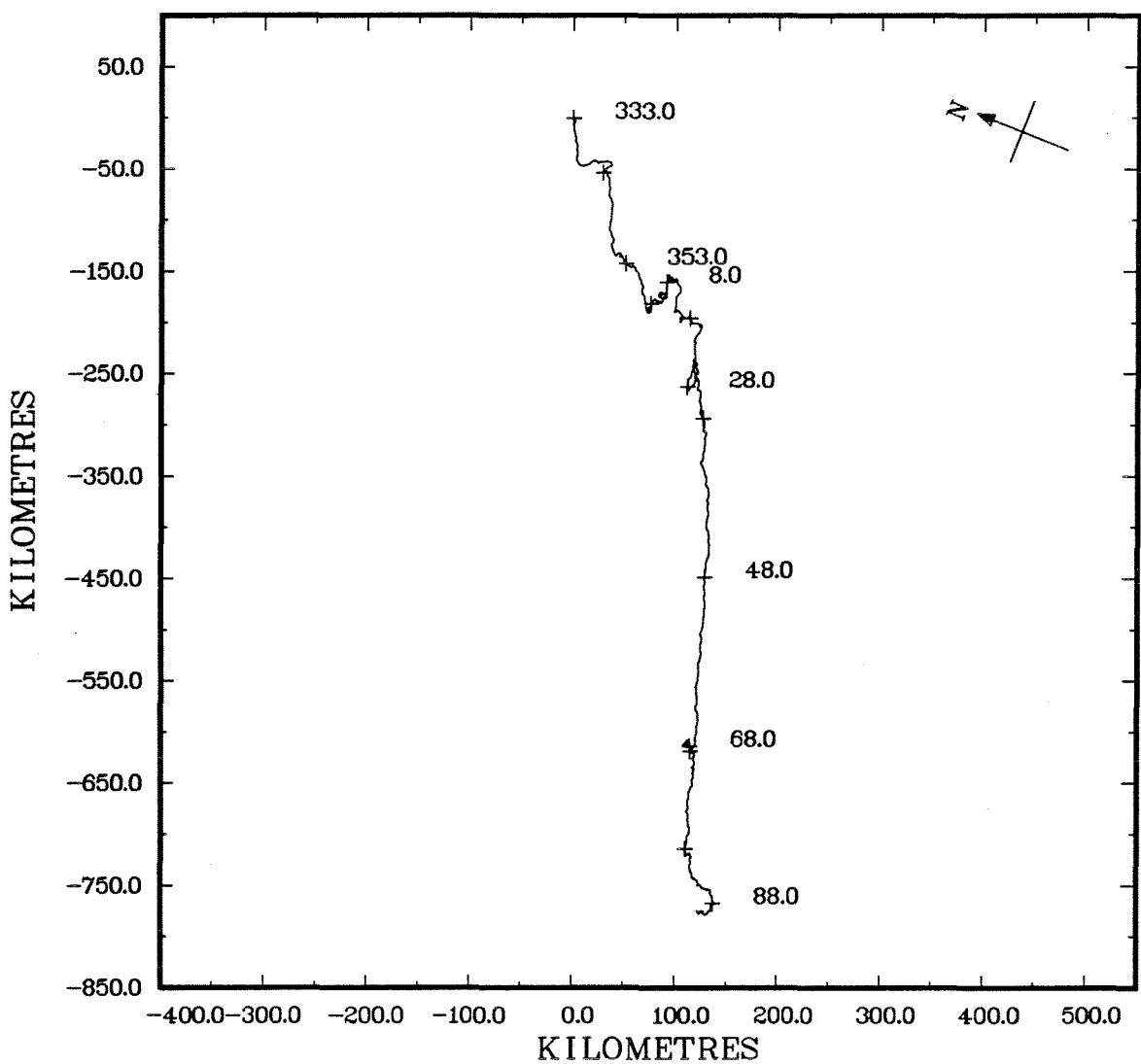
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.122	.015	.494	.077	6051
U(158° T) COMP VEL(M/S)	.011	-.237	.204	.060	6051
V(68° T) COMP VEL(M/S)	-.071	-.492	.370	.110	6051
TEMPERATURE(DEG.C.)	1.216	-1.582	6.708	2.199	6051
SALINITY	31.296	30.573	31.905	.237	6051
SIGMA-T(KG/M**3)	25.024	24.023	25.491	.307	6051

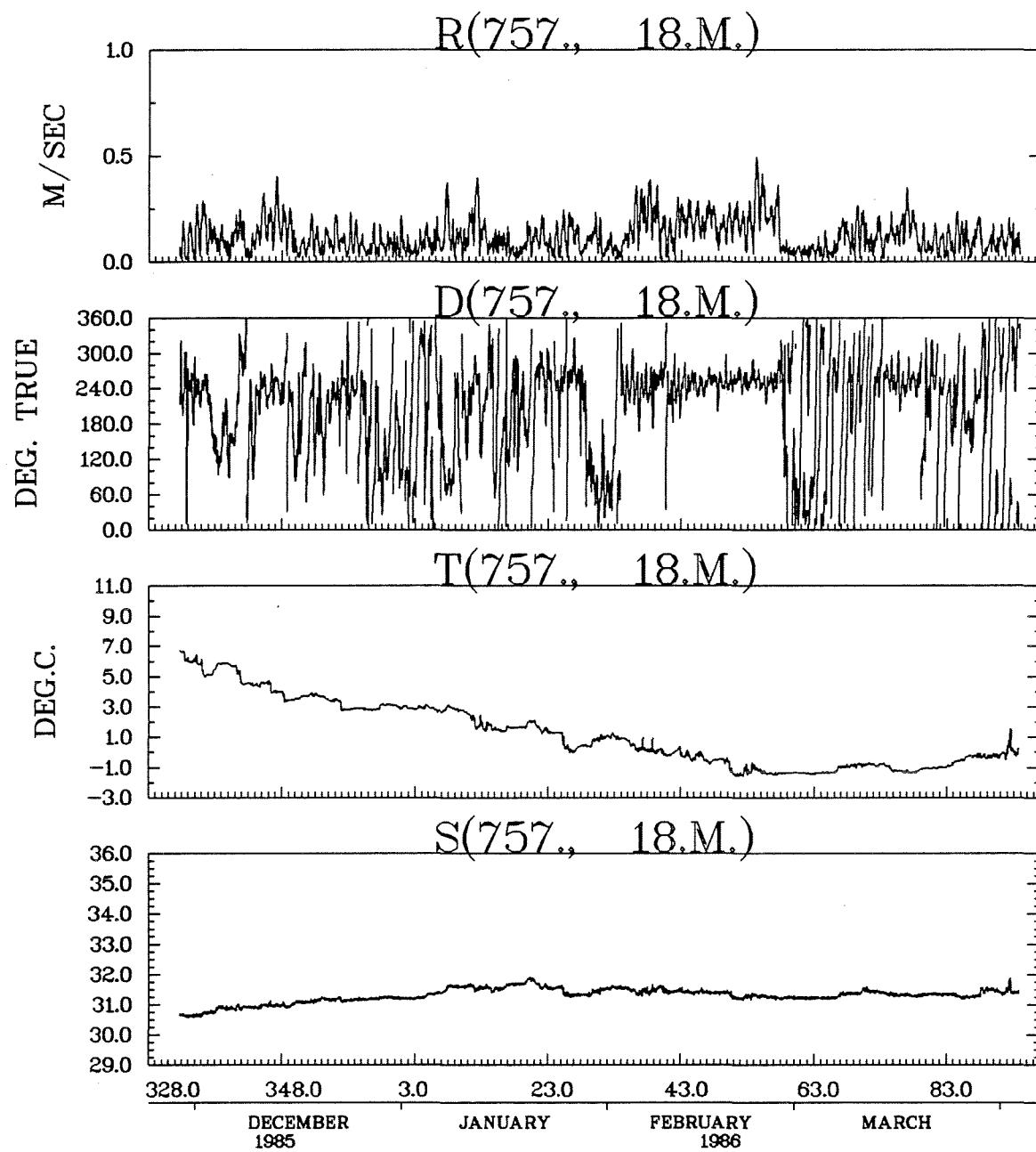
COMMENTS

PADDLE WHEEL ROTOR USED

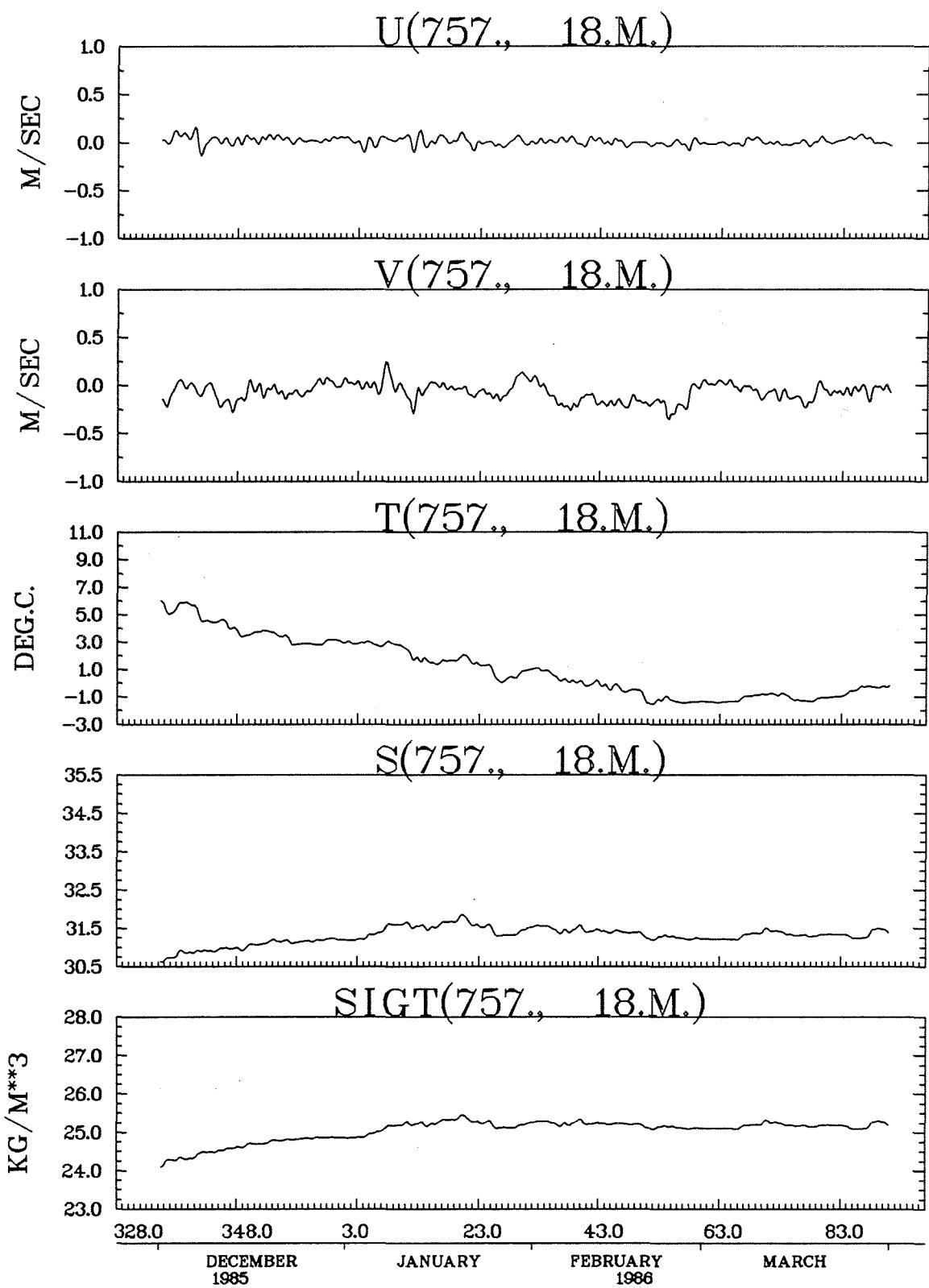
AUTOEDIT DESPIKE RUN ON TEMPERATURE AND SALINITY

STN. 757, 18 M.

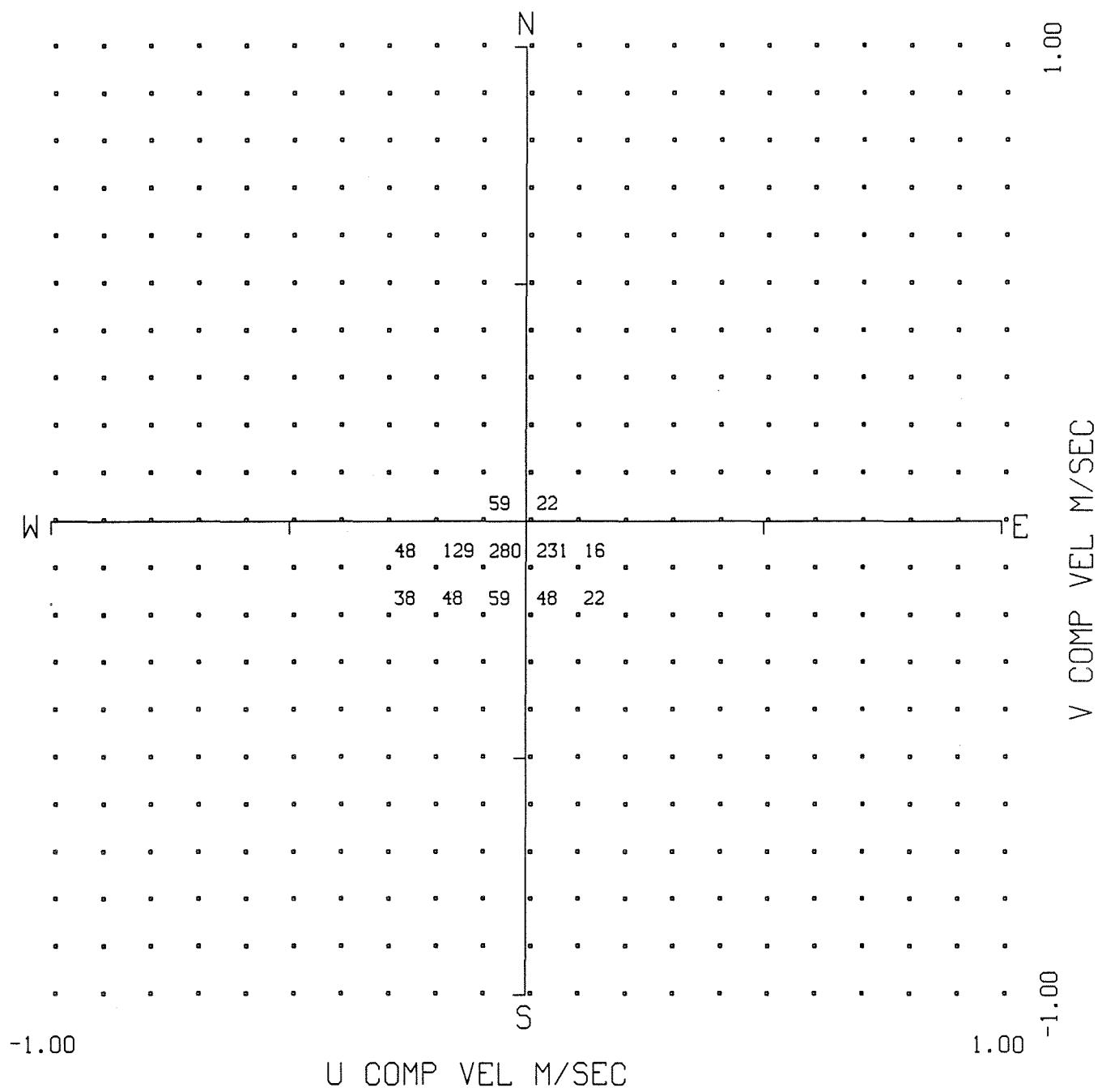




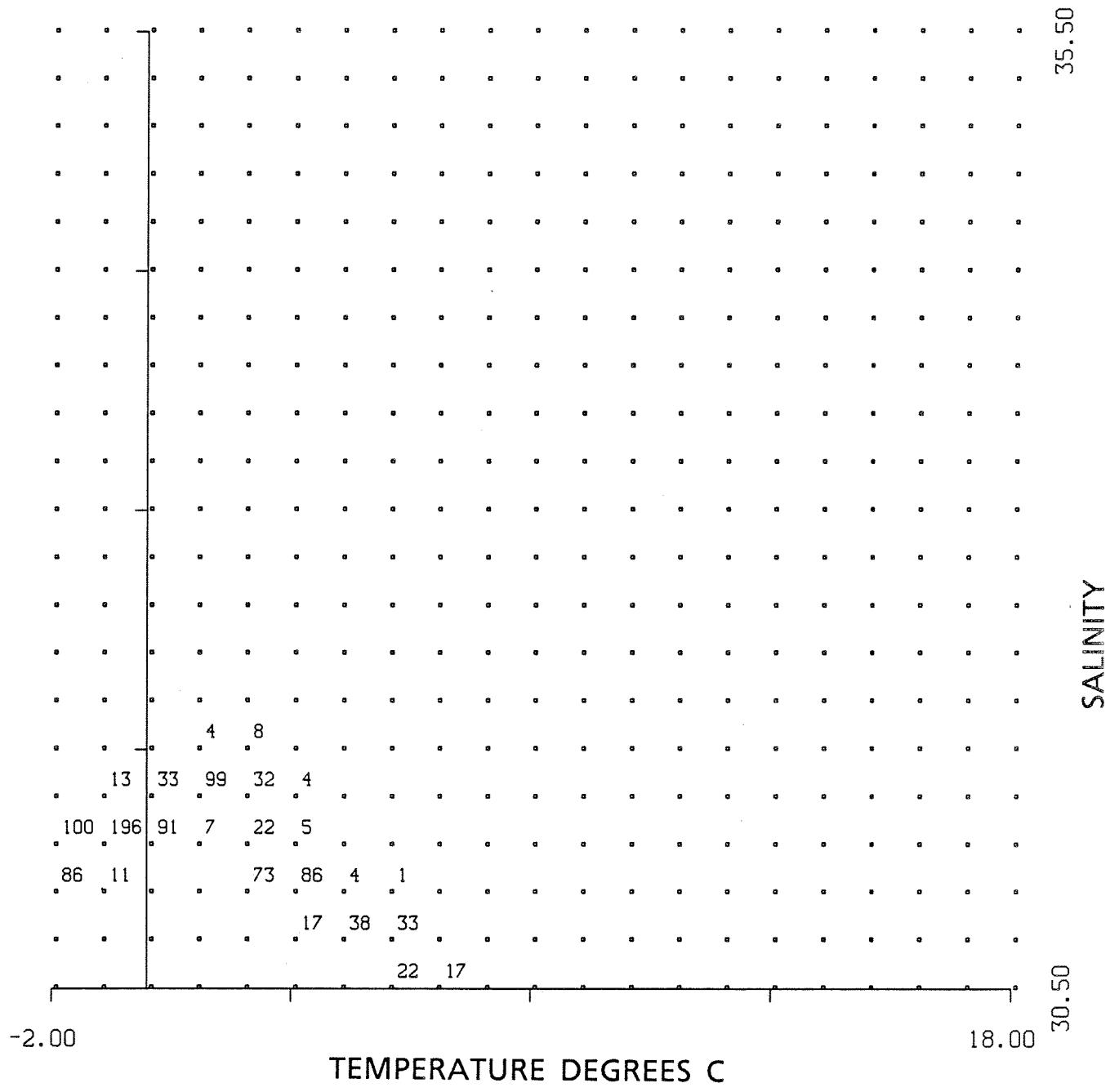
CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 757 DEPTH 18 M.
 START TIME 28/11/ 85 16:59:55.5 GMT
 FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 757 DEPTH 18 M.
START TIME 28/11/ 85 16:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 757
DEPTH (M) 23

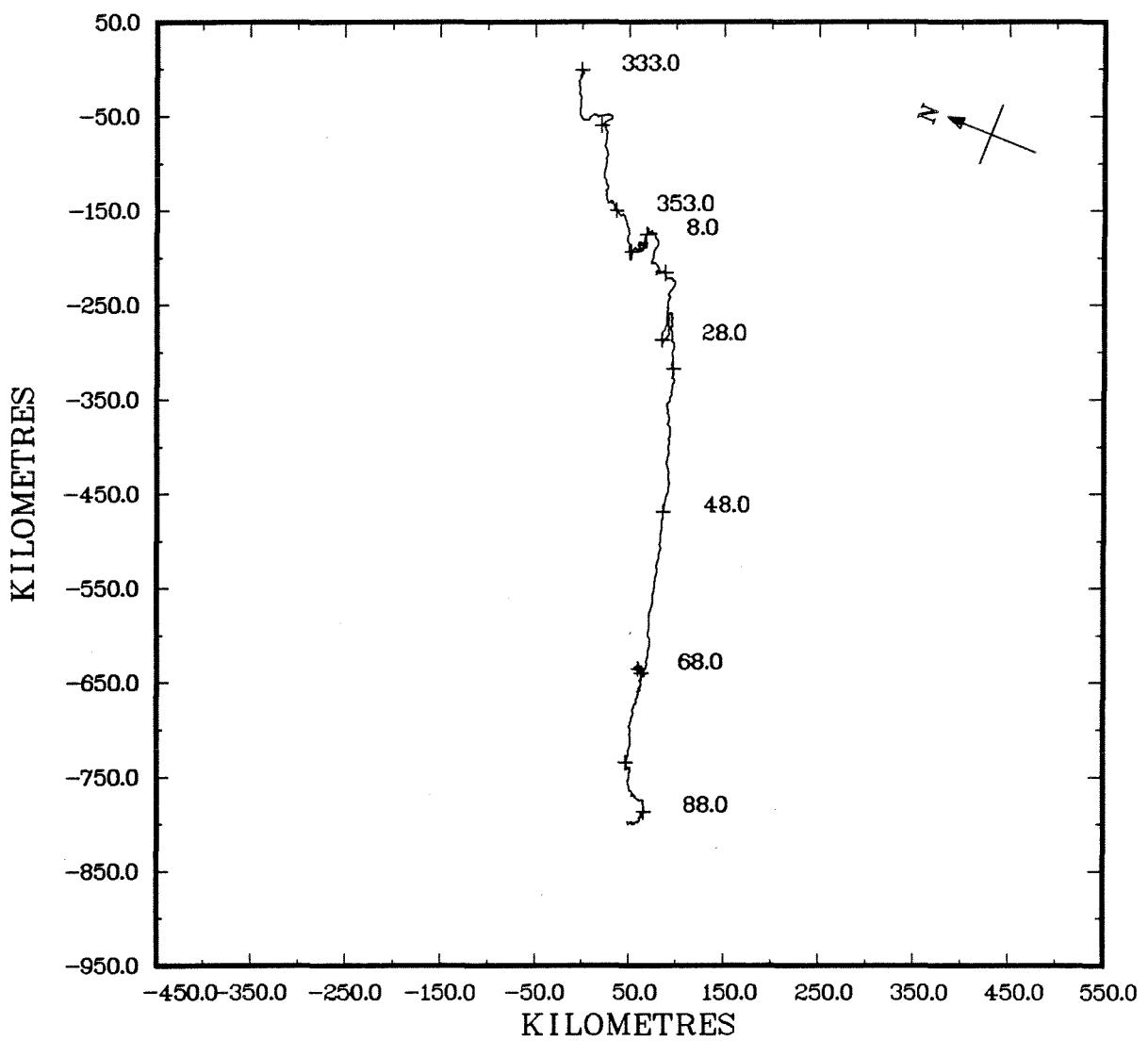
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 1902
LATITUDE 44 27.55 N
LONGITUDE 62 59.27 W
WATER DEPTH (M) 108
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.06
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.125	.015	.489	.075	6051
U(158° T) COMP VEL(M/S)	.004	-.273	.195	.062	6051
V(68° T) COMP VEL(M/S)	-.073	-.488	.383	.110	6051
TEMPERATURE(DEG.C.)	1.289	-1.569	6.996	2.271	6051

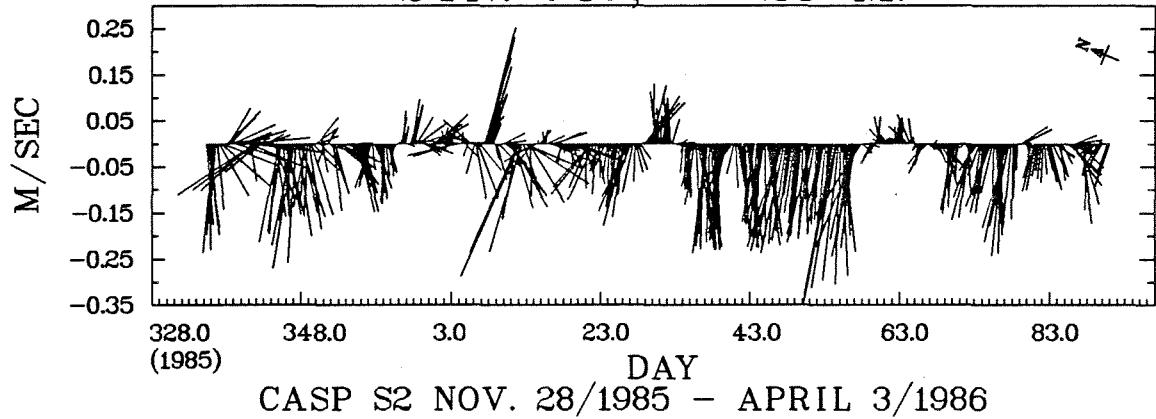
COMMENTS

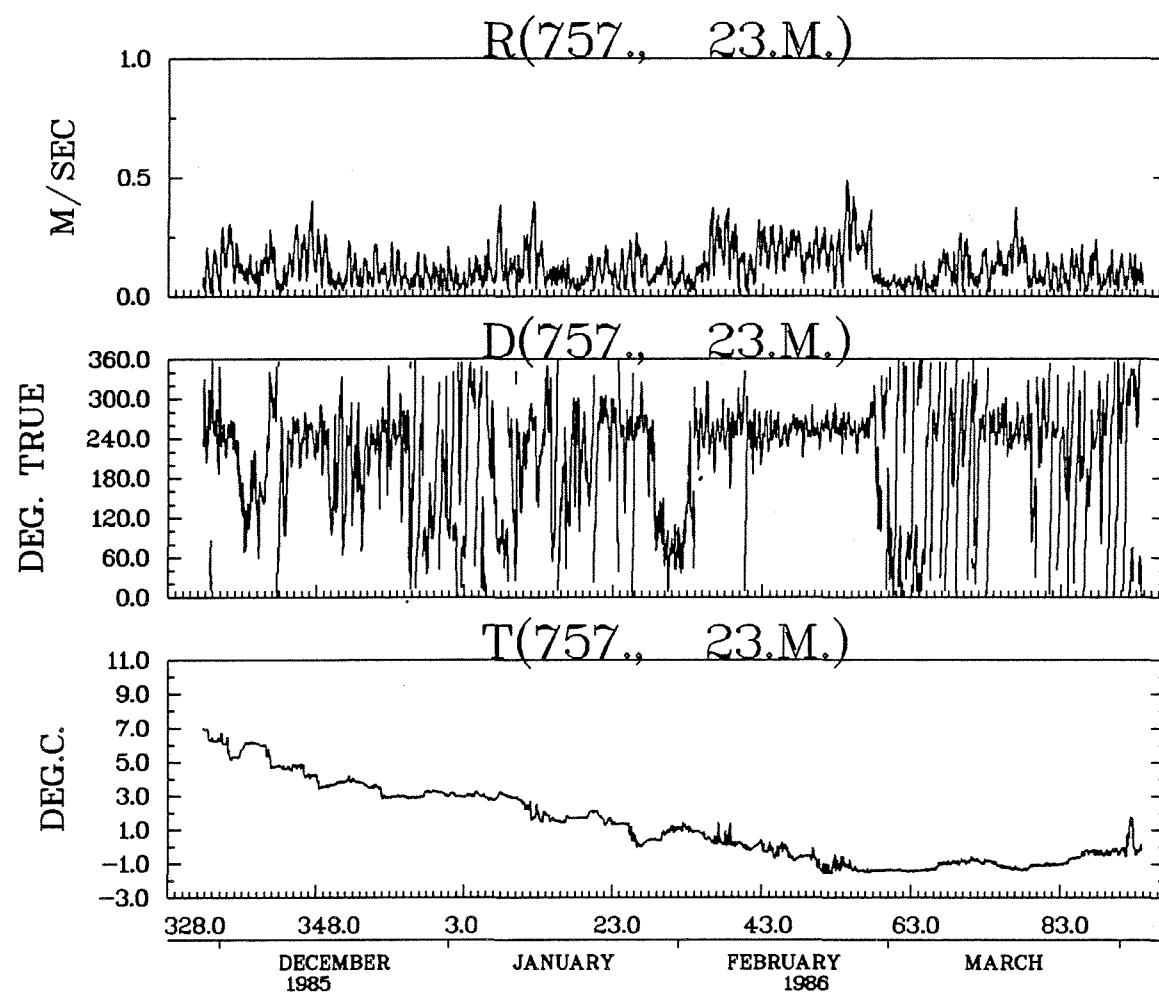
PADDLE WHEEL ROTOR USED
NO CONDUCTIVITY SENSOR USED
AUTOEDIT DESPIKE RUN ON TEMPERATURE

STN. 757, 23 M.

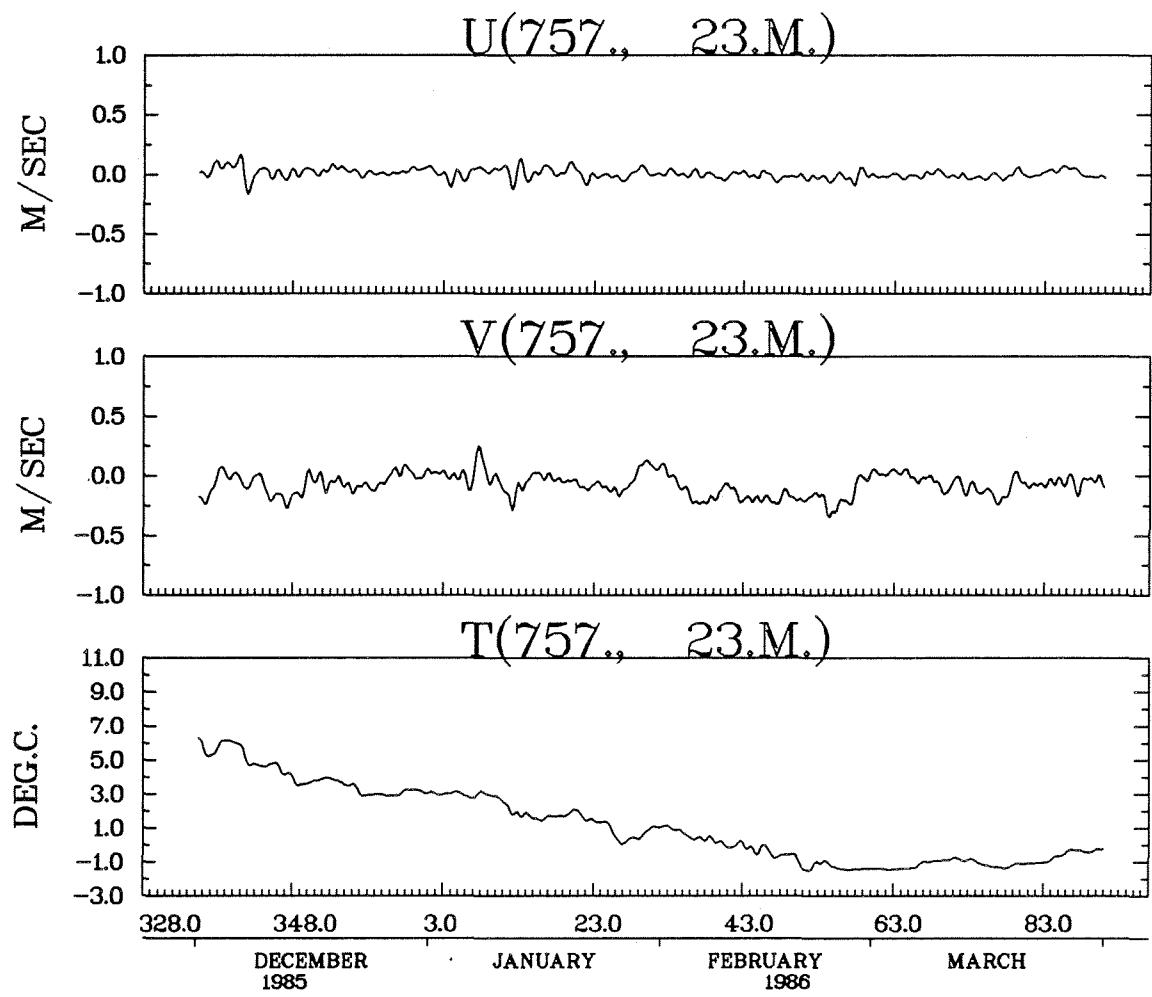


STN. 757, 23 M.

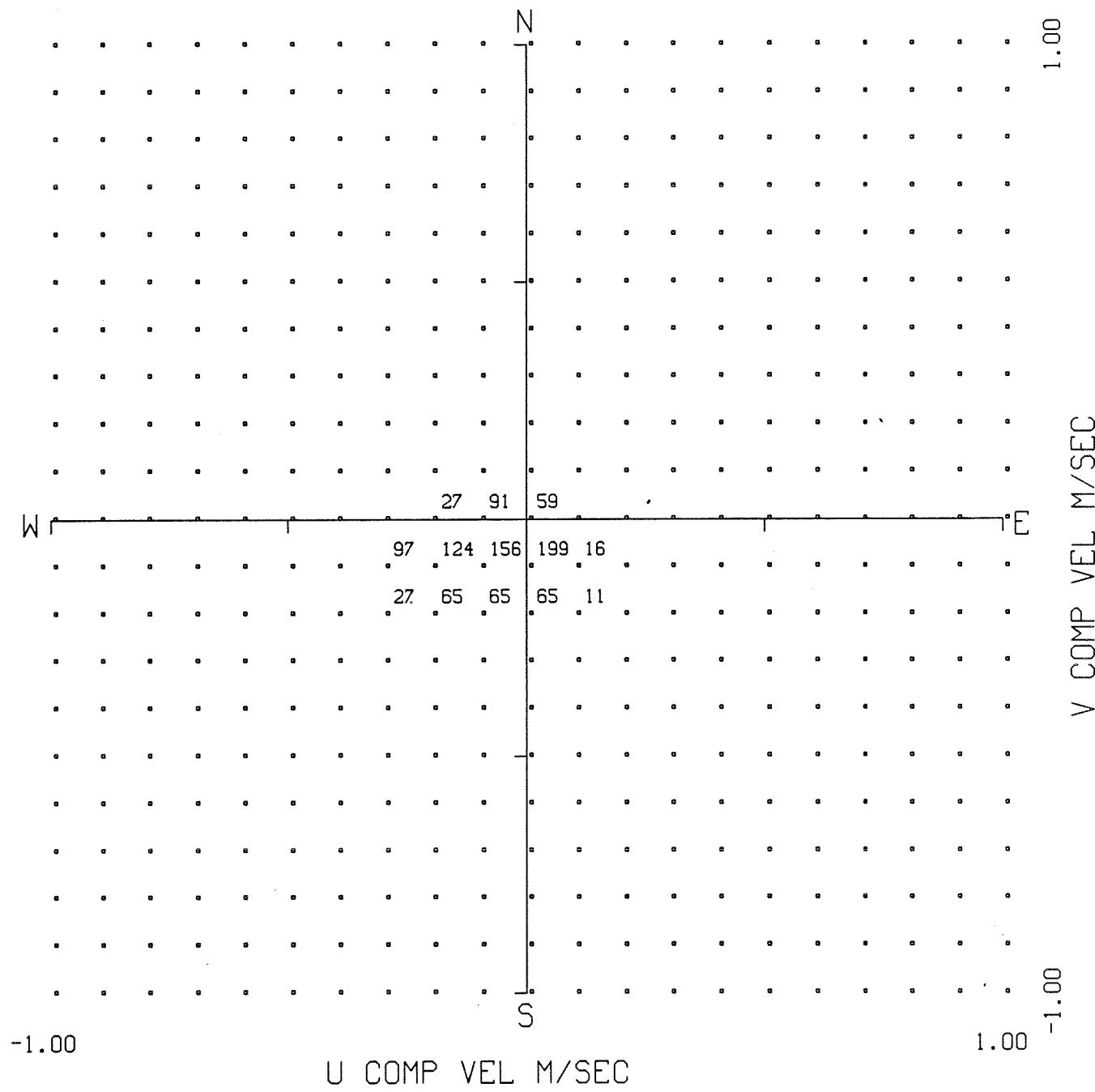




CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 757 DEPTH 23 M.
 START TIME 28/11/ 85 16:59:55.5 GMT
 FREQUENCY UNIT 0.1%

HISTOGRAM OF T(757., 23.M.) DEG.C.

BAND	NUMBER	PER
.GE.	.LT.	IN BAND CENT

-2.00	-1.50	23	.4	**
-1.50	-1.00	1136	18.8	*****
-1.00	-.50	754	12.5	*****
-.50	0.00	504	8.3	*****
0.00	.50	489	8.1	*****
.50	1.00	249	4.1	*****
1.00	1.50	300	5.0	*****
1.50	2.00	392	6.5	*****
2.00	2.50	114	1.9	*****
2.50	3.00	568	9.4	*****
3.00	3.50	405	6.7	*****
3.50	4.00	364	6.0	*****
4.00	4.50	98	1.6	*****
4.50	5.00	216	3.6	*****
5.00	5.50	87	1.4	*****
5.50	6.00	87	1.4	*****
6.00	6.50	219	3.6	*****
6.50	7.00	46	.8	***
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

102

TOTAL NO. OF SAMPLES 6051

OUTSIDE RANGE 0

MOORING 757
DEPTH (M) 28

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5001
LATITUDE 44 27.55 N
LONGITUDE 62 59.27 W
WATER DEPTH (M) 108
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.06
SAMPLE INTERVAL 30 MINUTES

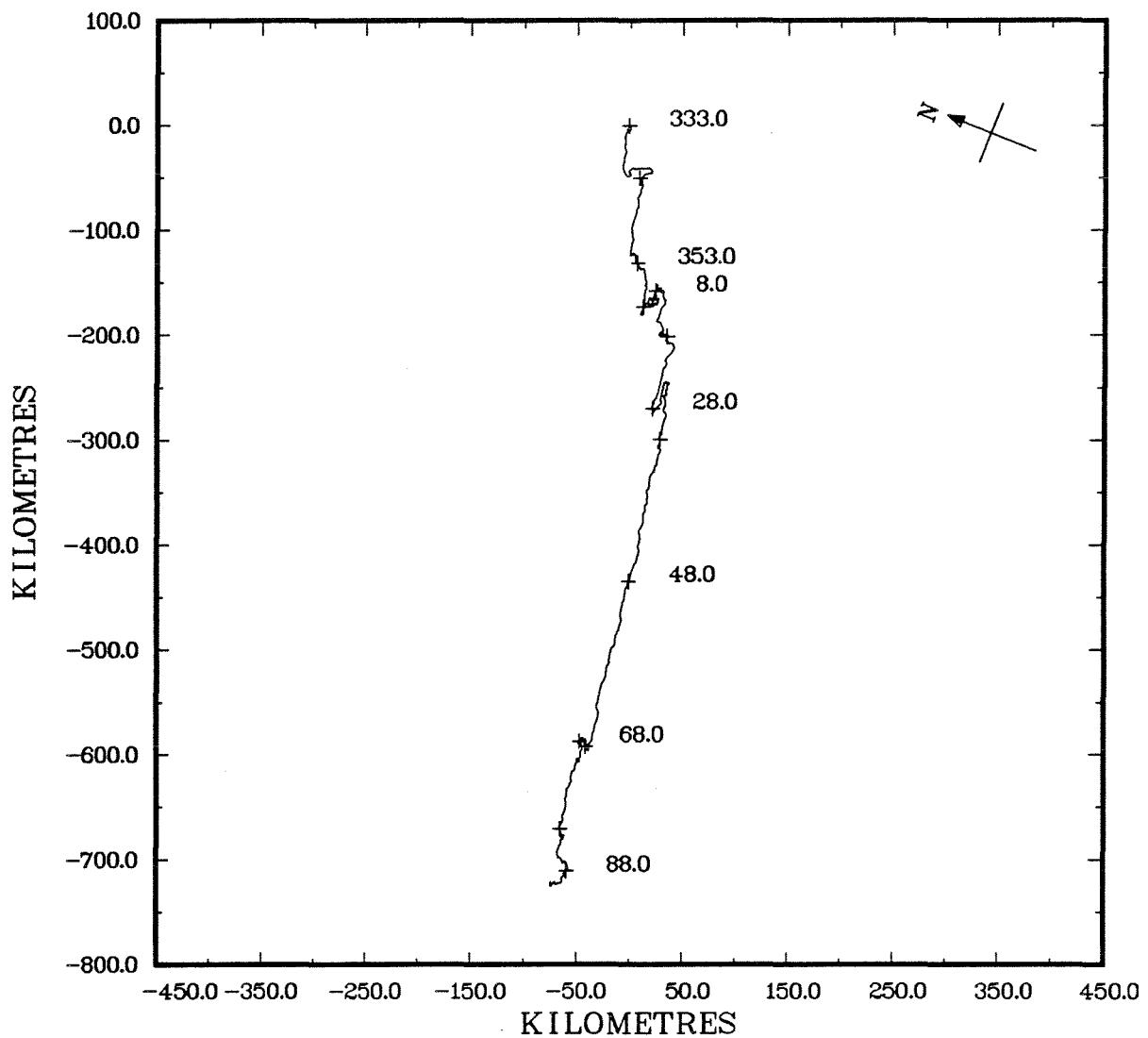
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.114	.015	.444	.070	6051
U(158° T) COMP VEL(M/S)	-.007	-.268	.191	.059	6051
V(68° T) COMP VEL(M/S)	-.066	-.441	.363	.100	6051
TEMPERATURE(DEG.C.)	1.236	-1.574	6.700	2.170	6051
SALINITY	31.291	30.676	31.870	.218	6051
SIGMA-T(KG/M**3)	25.019	24.090	25.519	.285	6051

COMMENTS

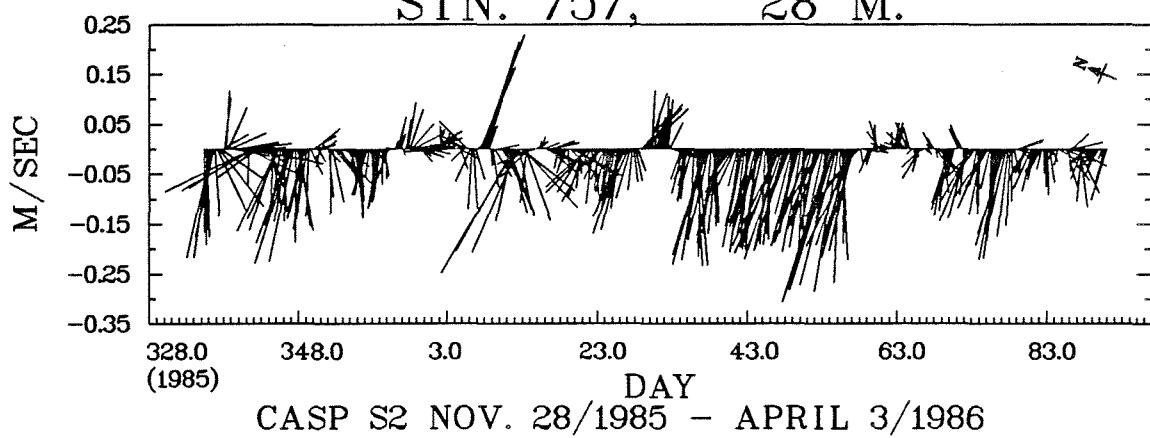
PADDLE WHEEL ROTOR USED

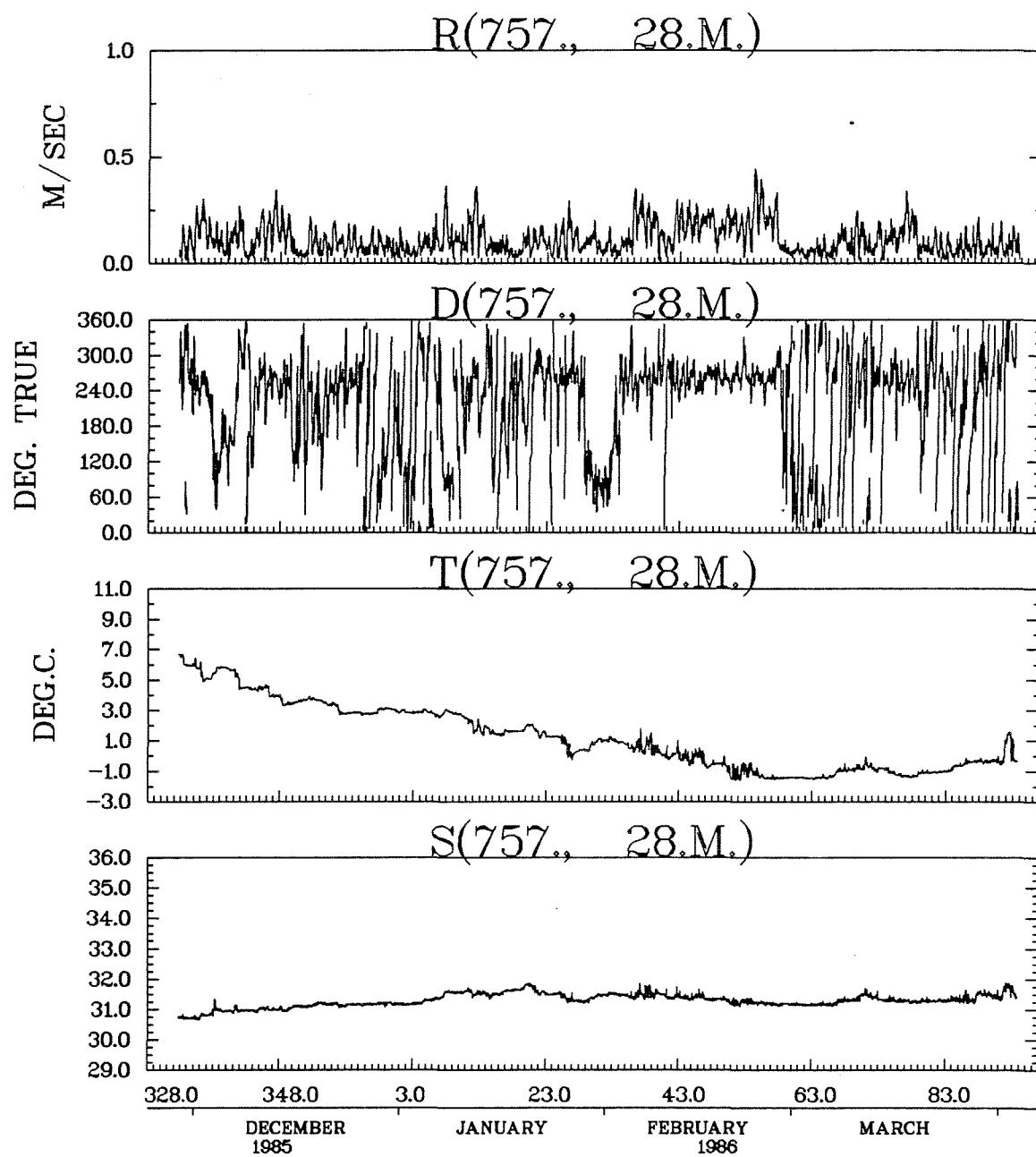
AUTOEDIT DESPIKE RUN ON TEMPERATURE AND SALINITY

STN. 757, 28 M.

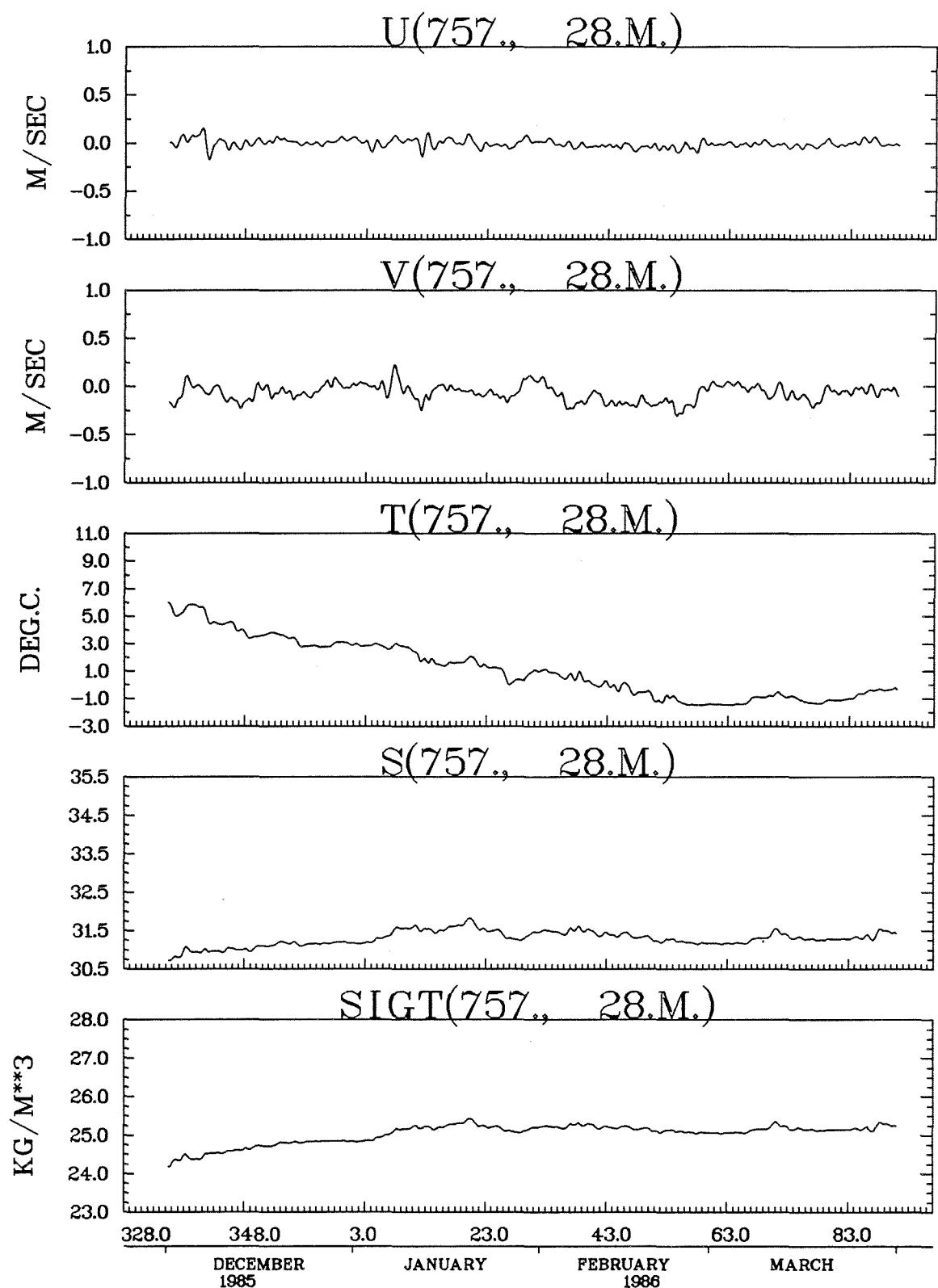


STN. 757, 28 M.

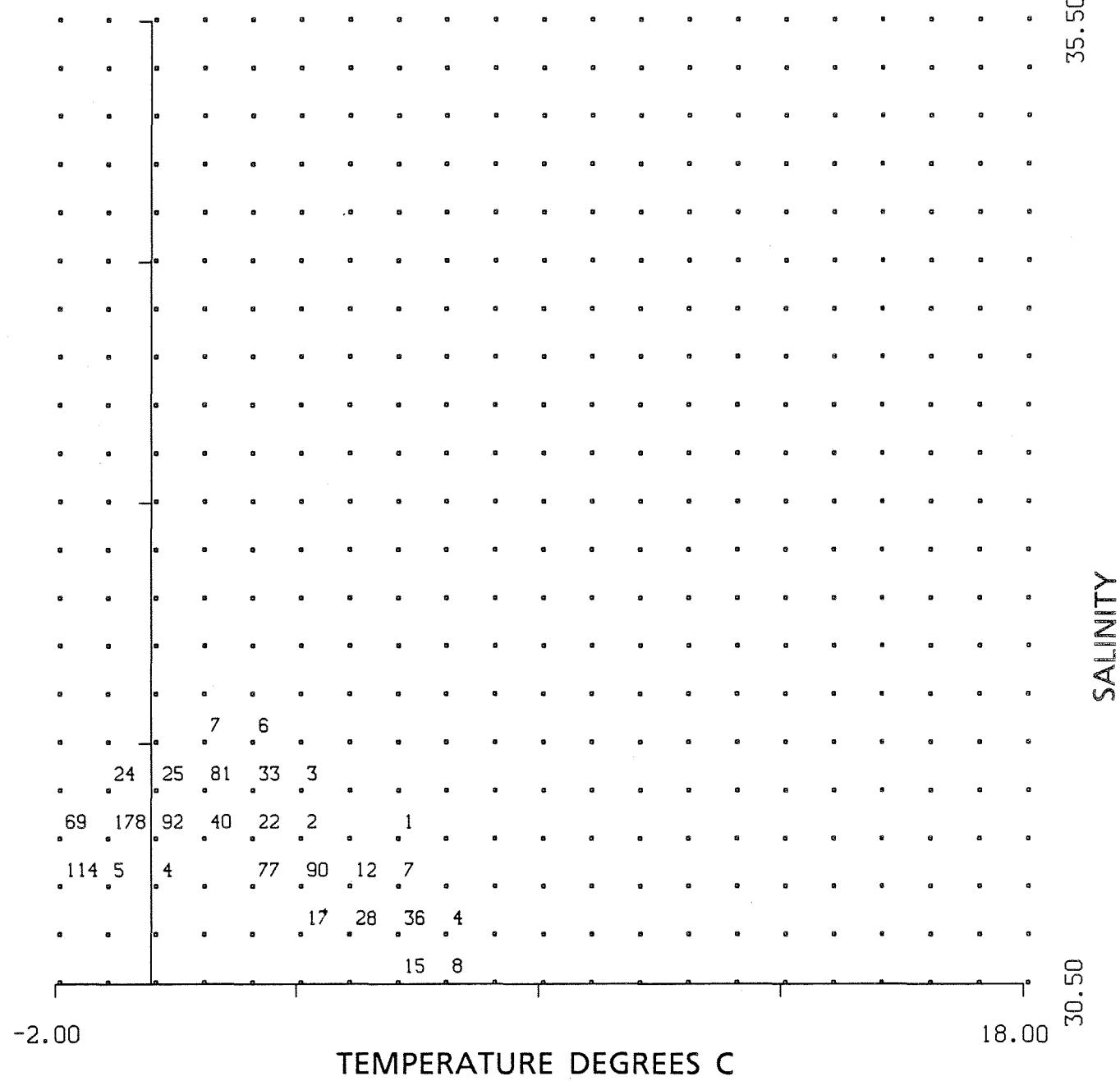




CASP S2 NOV. 28/1985 – APRIL 3/1986

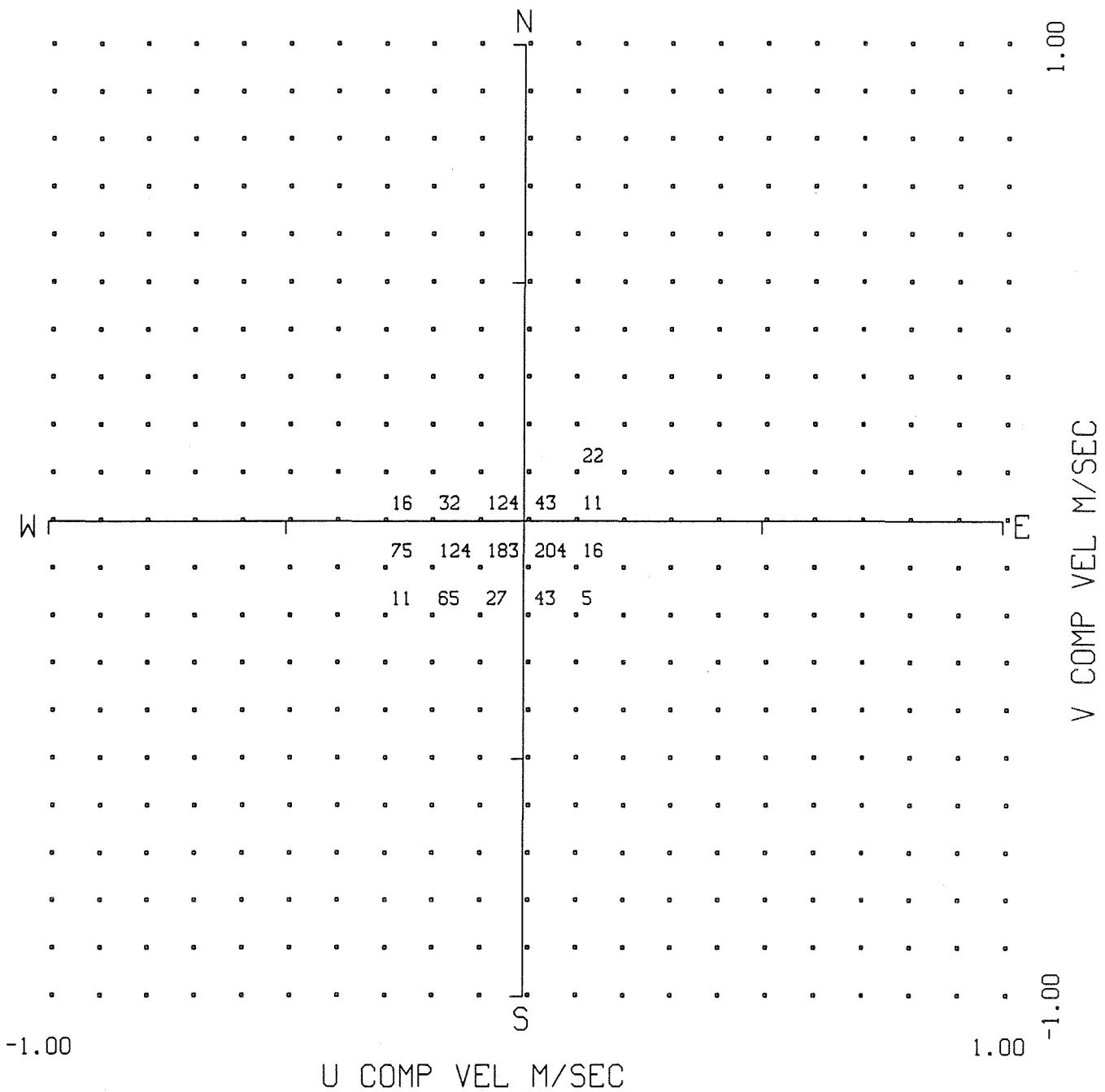


CASP S2 NOV. 28/1985 – APRIL 3/1986



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 757 DEPTH 28 M.
START TIME 28/11/ 85 16:59:55.5 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 757 DEPTH 28 M.
 START TIME 28/11/ 85 16:59:55.5 GMT
 FREQUENCY UNIT 0.1%

MOORING 720
DEPTH (M) 30

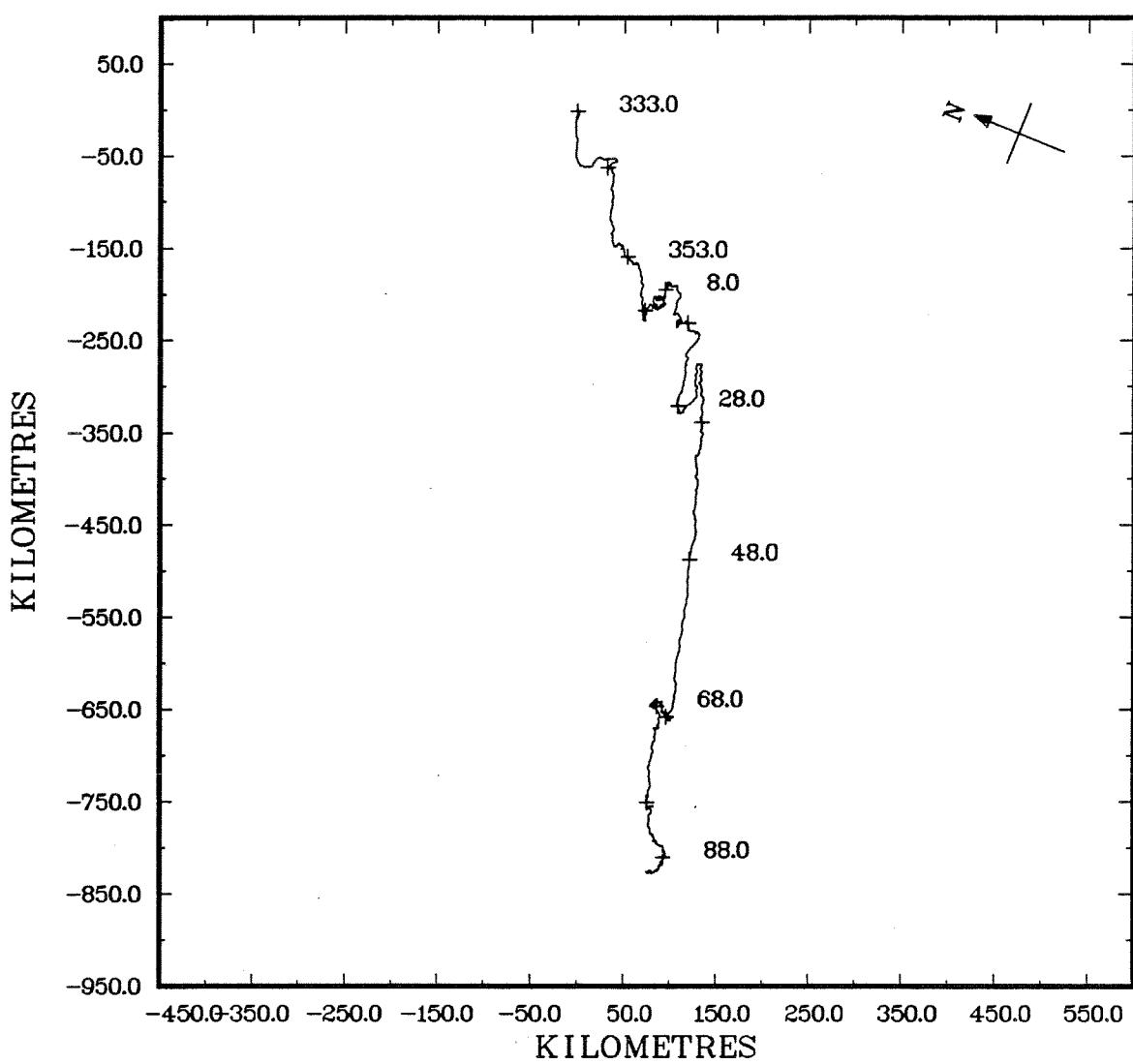
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 6411
LATITUDE 44 27.41 N
LONGITUDE 62 59.10 W
WATER DEPTH (M) 100
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.00
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.152	.015	.509	.067	6048
U(158° T) COMP VEL(M/S)	.007	-.251	.299	.081	6048
V(68° T) COMP VEL(M/S)	-.076	-.500	.391	.123	6048
TEMPERATURE(DEG.C.)	1.166	-1.618	6.656	2.190	6048

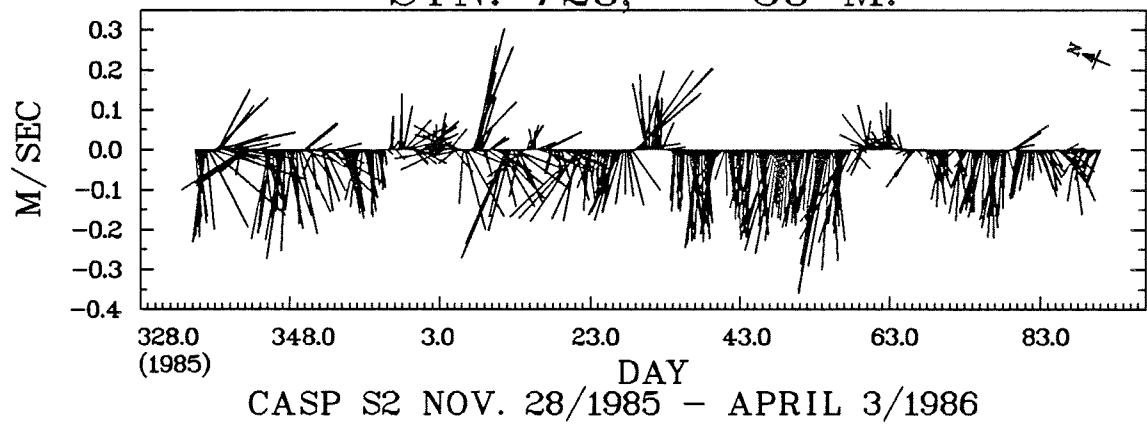
COMMENTS

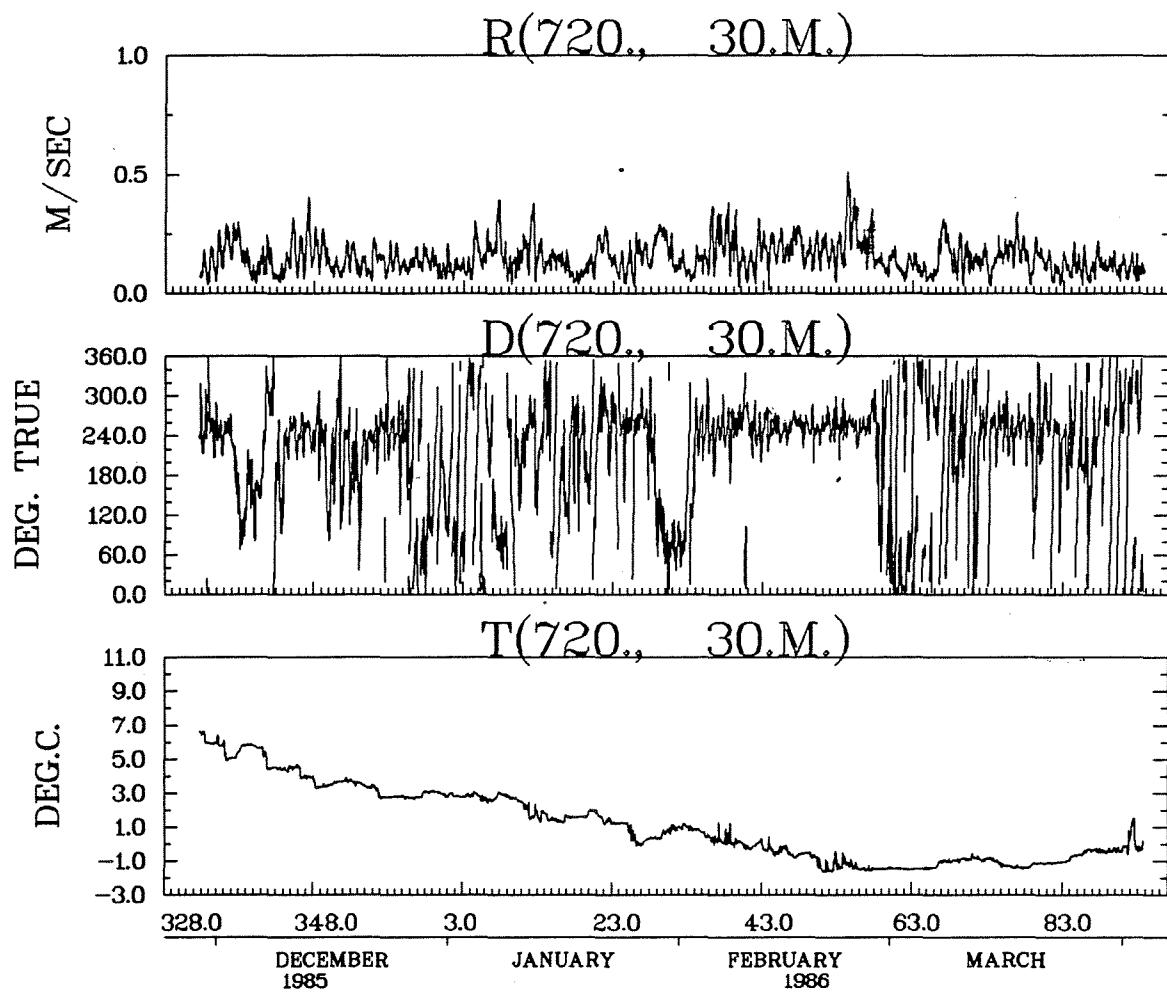
NO CONDUCTIVITY SENSOR USED
AUTOEDIT DESPIKE RUN ON TEMPERATURE

STN. 720, 30 M.

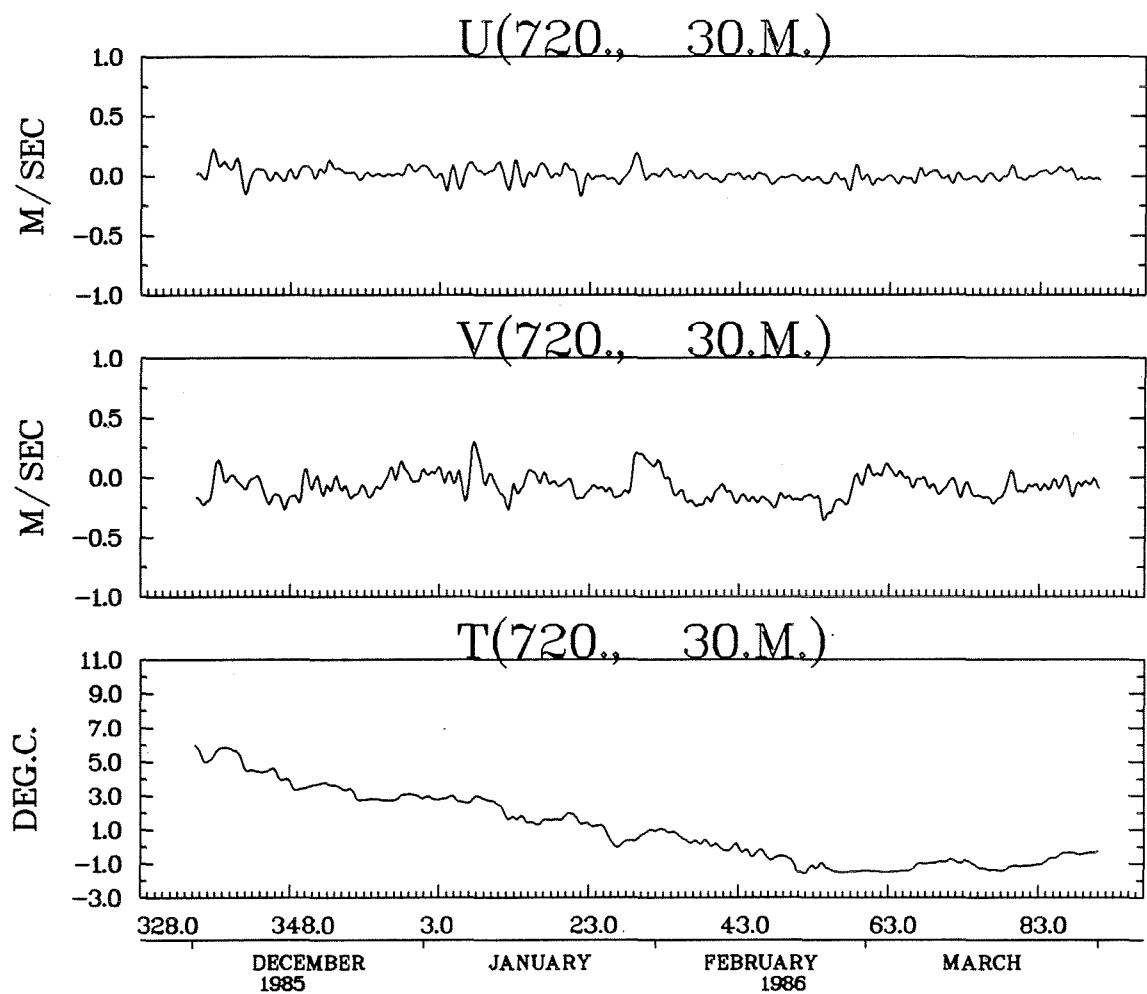


STN. 720, 30 M.

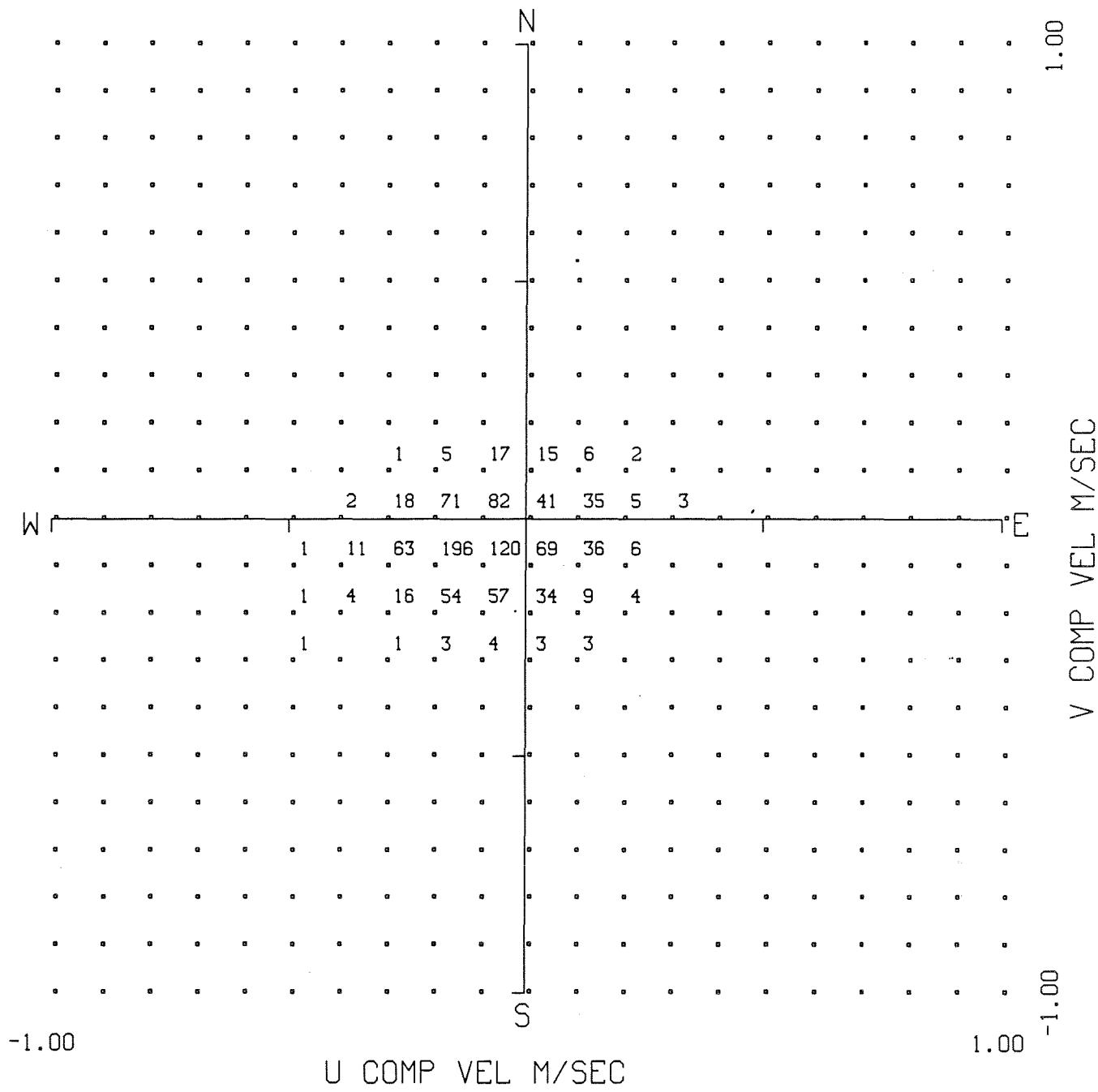




CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 720 DEPTH 30 M.
 START TIME 28/11/ 85 17:59:55.5 GMT
 FREQUENCY UNIT 0.1%

HISTOGRAM OF T(720., 30.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	114	1.9	*****
-1.50	-1.00	1133	18.7	*****
-1.00	-.50	675	11.2	*****
-.50	0.00	573	9.5	*****
0.00	.50	430	7.1	*****
.50	1.00	275	4.5	*****
1.00	1.50	362	6.0	*****
1.50	2.00	342	5.7	*****
2.00	2.50	79	1.3	*****
2.50	3.00	745	12.3	*****
3.00	3.50	362	6.0	*****
3.50	4.00	291	4.8	*****
4.00	4.50	140	2.3	*****
4.50	5.00	103	1.7	*****
5.00	5.50	112	1.9	*****
5.50	6.00	259	4.3	*****
6.00	6.50	29	.5	***
6.50	7.00	24	.4	**
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

114

TOTAL NO. OF SAMPLES 6048

OUTSIDE RANGE 0

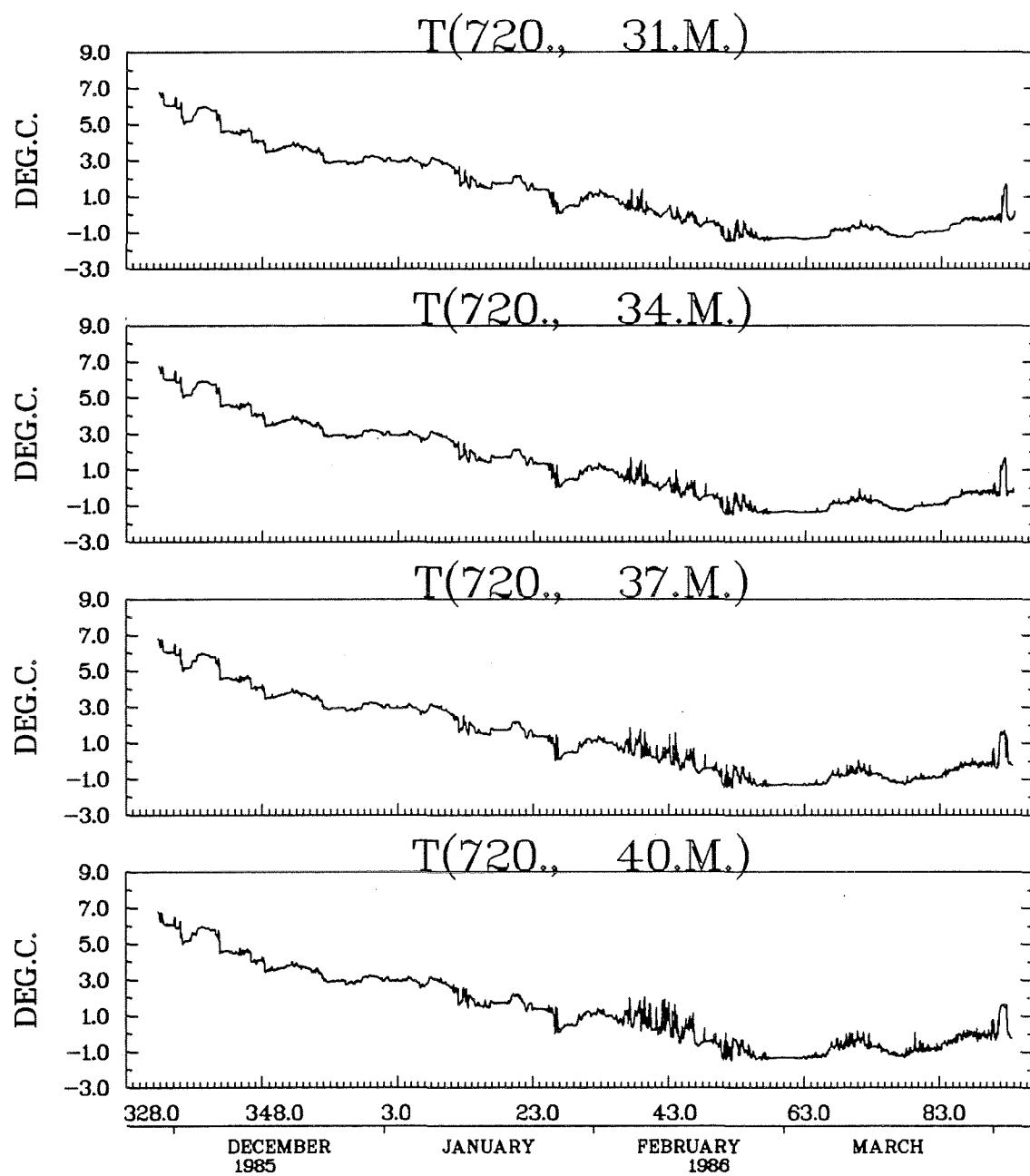
MOORING	720
DEPTH (M)	31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61

INSTRUMENT TYPE	AANDERAA RTC
SERIAL NUMBER	413
LATITUDE	44 27.41 N
LONGITUDE	62 59.10 W
WATER DEPTH (M)	100
MOORING DATE ; CRUISE	28/11/1985 ; 85-040
DURATION (DAYS)	126.04
SAMPLE INTERVAL	60 MINUTES

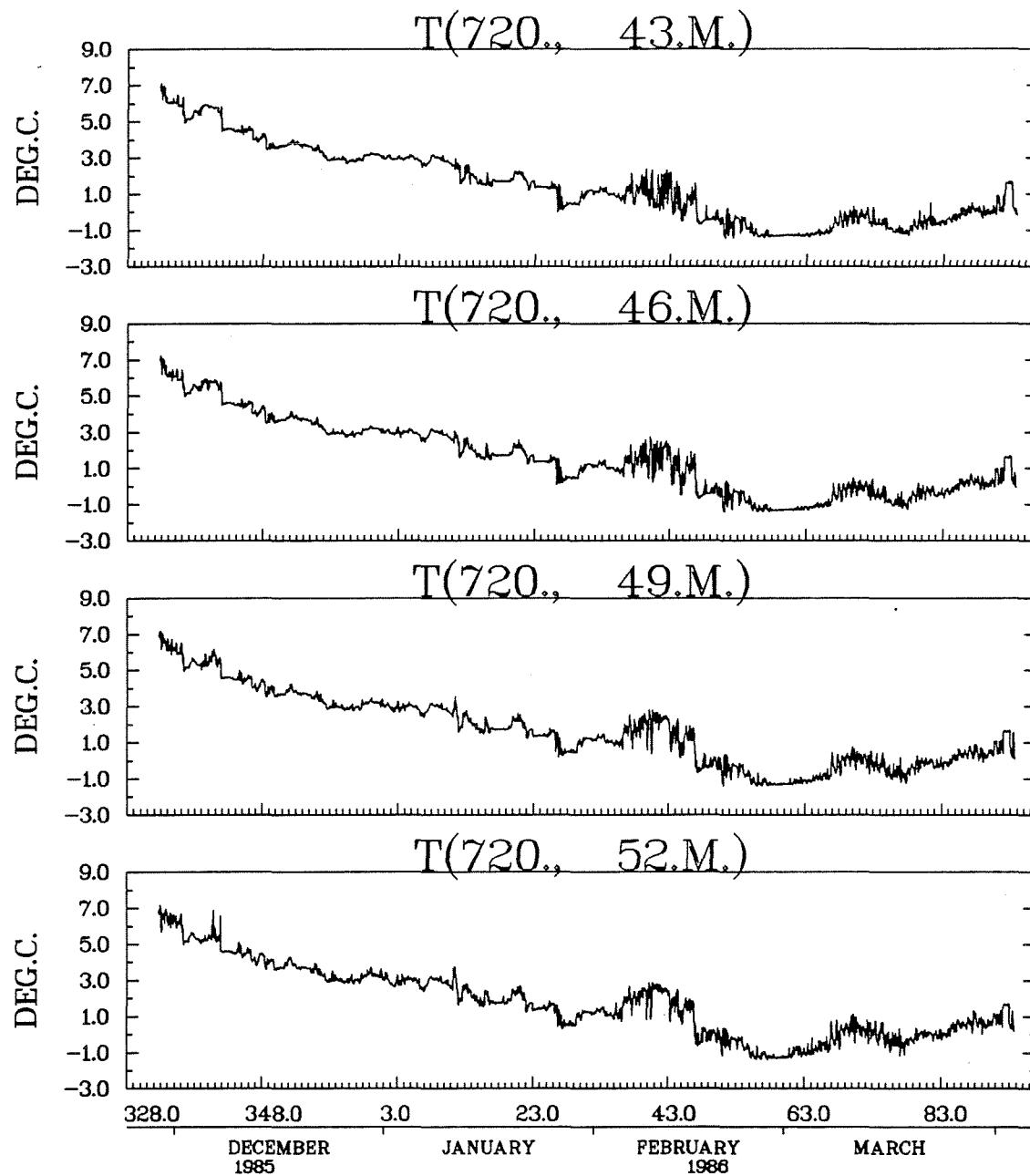
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG.C.)	1.303	-1.497	6.791	2.191	3025
TEMPERATURE(DEG.C.)	1.312	-1.475	6.768	2.169	3025
TEMPERATURE(DEG.C.)	1.370	-1.475	6.814	2.152	3025
TEMPERATURE(DEG.C.)	1.420	-1.475	6.814	2.120	3025
TEMPERATURE(DEG.C.)	1.491	-1.452	7.109	2.074	3025
TEMPERATURE(DEG.C.)	1.594	-1.407	7.223	2.037	3025
TEMPERATURE(DEG.C.)	1.682	-1.407	7.200	1.991	3025
TEMPERATURE(DEG.C.)	1.796	-1.384	7.155	1.939	3025
TEMPERATURE(DEG.C.)	1.915	-1.338	8.249	1.872	3025
TEMPERATURE(DEG.C.)	2.035	-1.316	8.295	1.808	3025
TEMPERATURE(DEG.C.)	2.142	-1.293	8.066	1.736	3025

COMMENTS

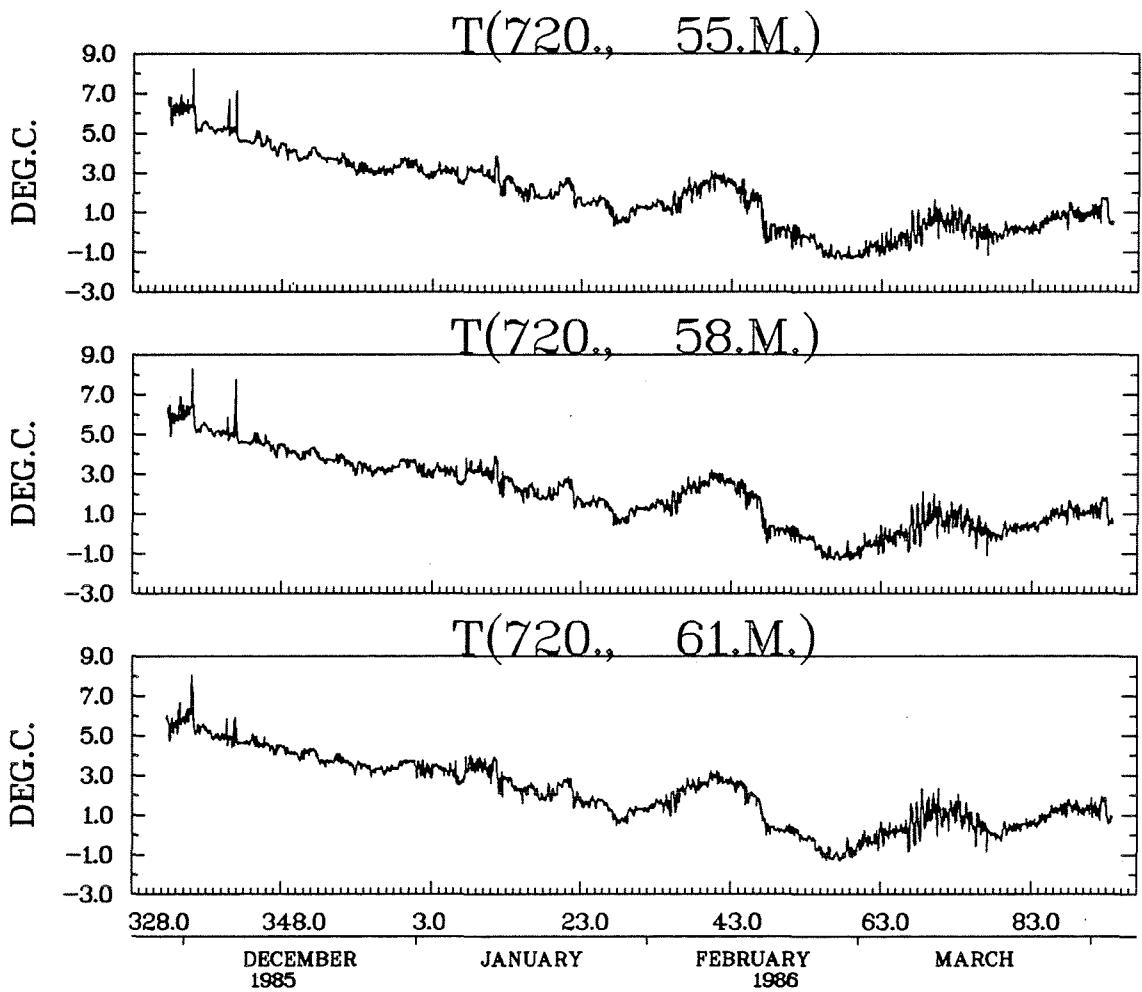
APPEARS TO BE A CLOCK FAILURE
 28 MISSING DATA CYCLES INSERTED THROUGH INTERPOLATION



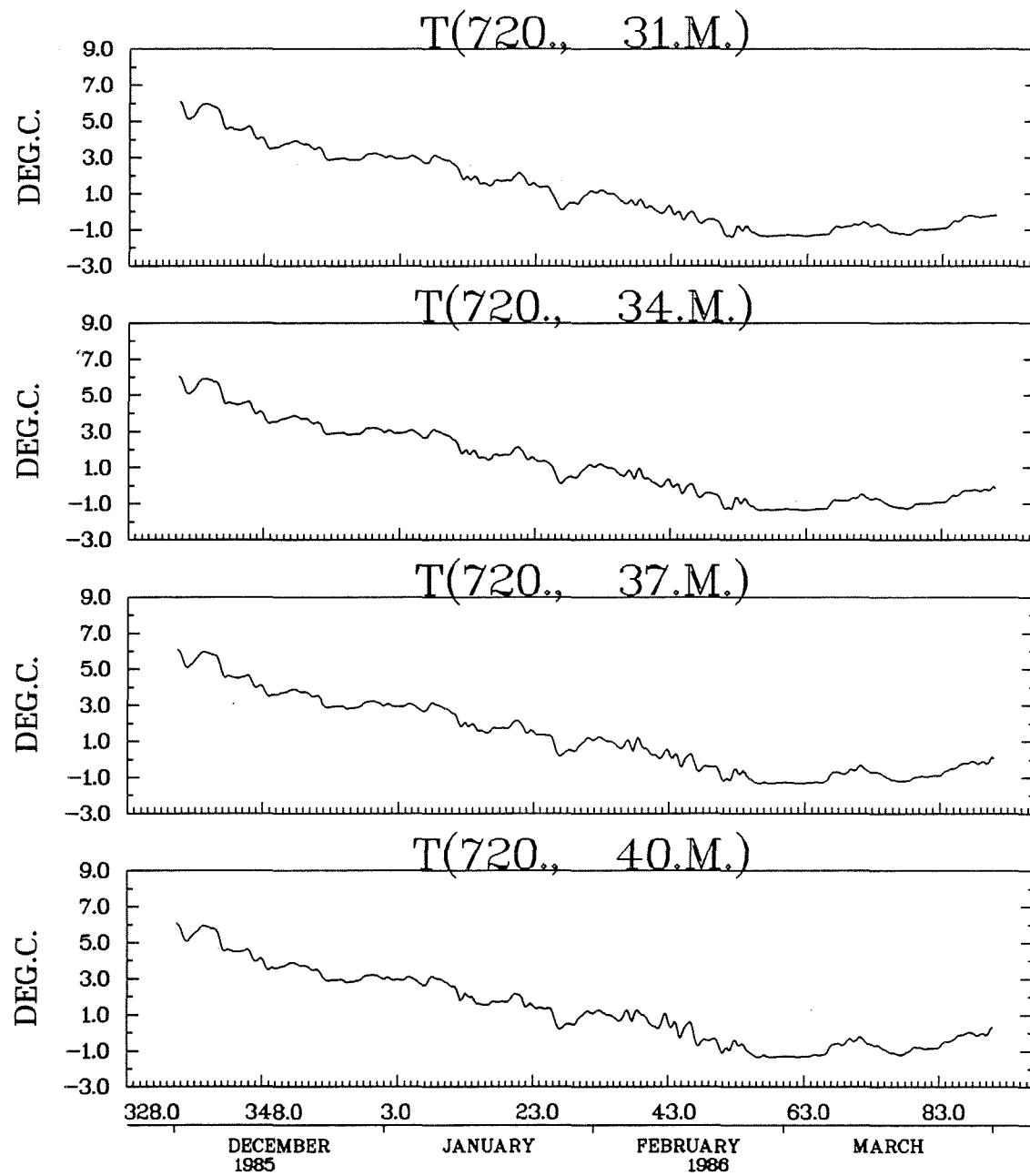
CASP S2 NOV. 28/1985 – APRIL 3/1986



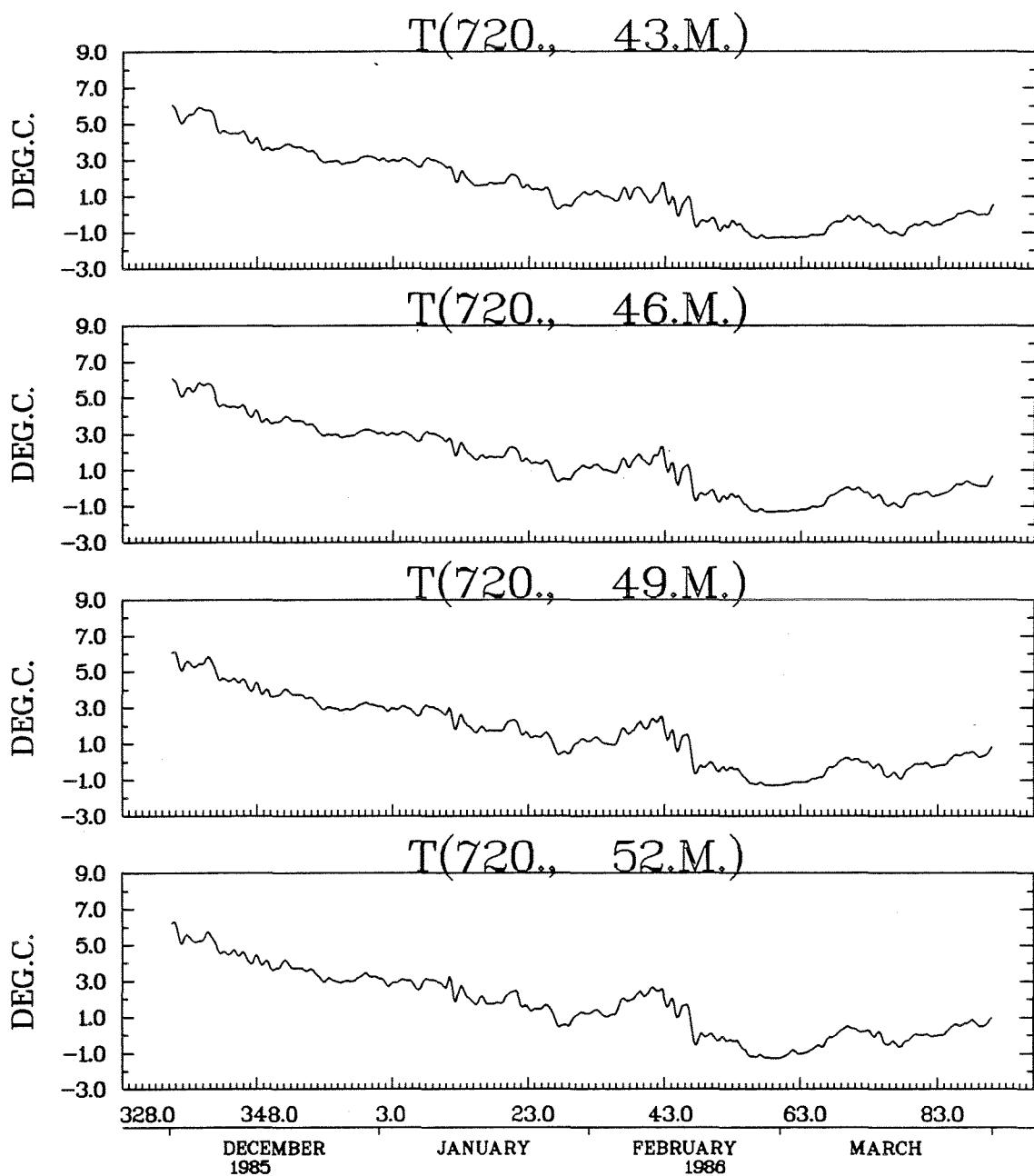
CASP S2 NOV. 28/1985 – APRIL 3/1986



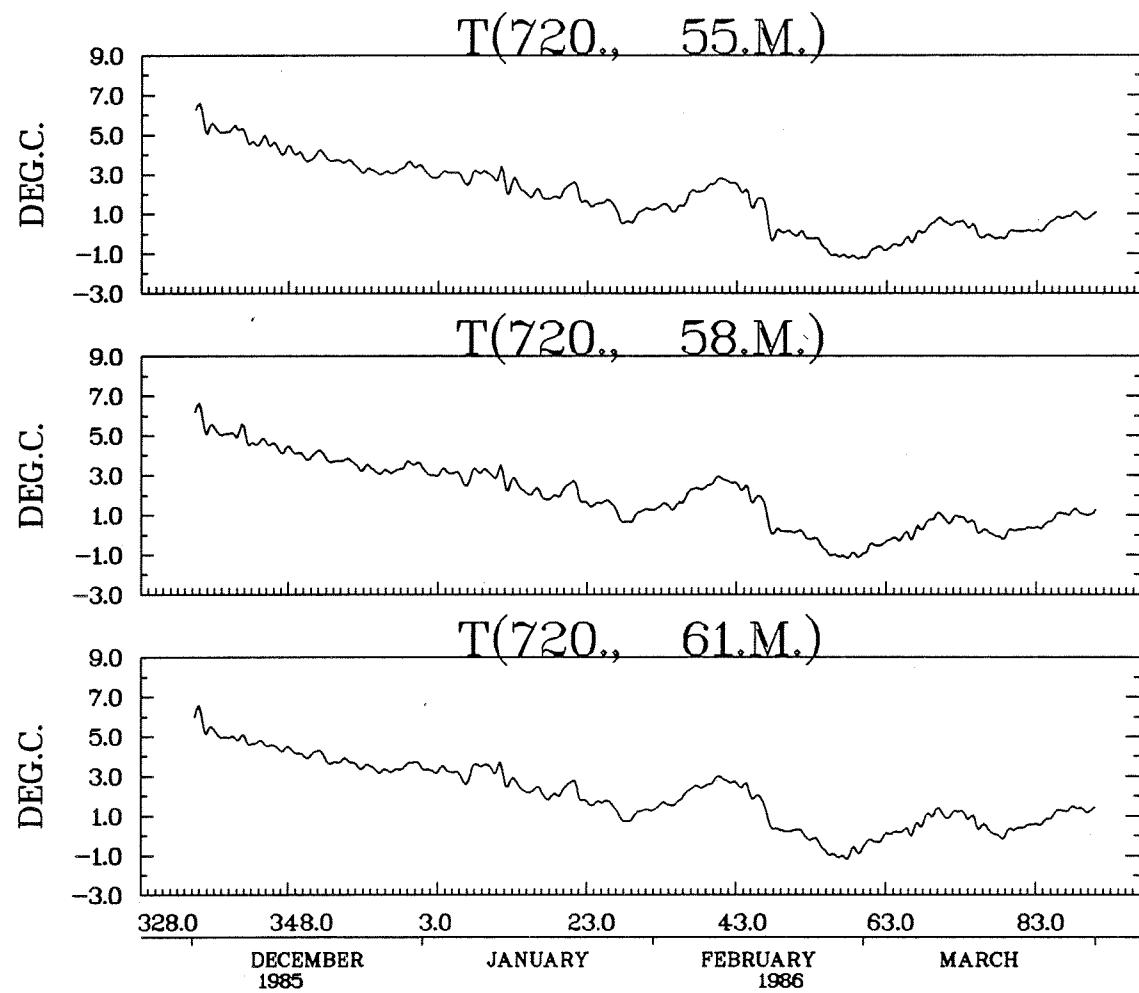
CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986

HISTOGRAM OF T(720., 31.M.) DEG.C.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	474	15.7	*****
-1.00	-.50	400	13.2	*****
-.50	0.00	319	10.5	*****
0.00	.50	208	6.9	*****
.50	1.00	145	4.8	*****
1.00	1.50	180	6.0	*****
1.50	2.00	191	6.3	*****
2.00	2.50	62	2.0	*****
2.50	3.00	324	10.7	*****
3.00	3.50	183	6.0	*****
3.50	4.00	169	5.6	*****
4.00	4.50	53	1.8	*****
4.50	5.00	98	3.2	*****
5.00	5.50	51	1.7	*****
5.50	6.00	102	3.4	*****
6.00	6.50	48	1.6	*****
6.50	7.00	18	.6	***
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

122

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 34.M.) DEG.C.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	444	14.7	*****
-1.00	-.50	418	13.8	*****
-.50	0.00	309	10.2	*****
0.00	.50	215	7.1	*****
.50	1.00	142	4.7	*****
1.00	1.50	198	6.5	*****
1.50	2.00	192	6.3	*****
2.00	2.50	59	2.0	*****
2.50	3.00	340	11.2	*****
3.00	3.50	181	6.0	*****
3.50	4.00	158	5.2	*****
4.00	4.50	63	2.1	*****
4.50	5.00	87	2.9	*****
5.00	5.50	52	1.7	*****
5.50	6.00	111	3.7	*****
6.00	6.50	41	1.4	*****
6.50	7.00	15	.5	***
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

123

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 37.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	407	13.5
-1.00	-.50	400	13.2
-.50	0.00	324	10.7
0.00	.50	193	6.4
.50	1.00	155	5.1
1.00	1.50	225	7.4
1.50	2.00	206	6.8
2.00	2.50	63	2.1
2.50	3.00	324	10.7
3.00	3.50	182	6.0
3.50	4.00	175	5.8
4.00	4.50	58	1.9
4.50	5.00	94	3.1
5.00	5.50	49	1.6
5.50	6.00	104	3.4
6.00	6.50	53	1.8
6.50	7.00	13	.4
7.00	7.50	0	0.0
7.50	8.00	0	0.0

124

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 40.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	382	12.6
-1.00	-.50	349	11.5
-.50	0.00	323	10.7
0.00	.50	221	7.3
.50	1.00	156	5.2
1.00	1.50	247	8.2
1.50	2.00	225	7.4
2.00	2.50	65	2.1
2.50	3.00	322	10.6
3.00	3.50	185	6.1
3.50	4.00	178	5.9
4.00	4.50	65	2.1
4.50	5.00	88	2.9
5.00	5.50	48	1.6
5.50	6.00	105	3.5
6.00	6.50	54	1.8
6.50	7.00	12	.4
7.00	7.50	0	0.0
7.50	8.00	0	0.0

125

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 43.M.) DEG.C.

BAND	NUMBER	PER
.GE.	.LT.	IN BAND CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	333	11.0
-1.00	-.50	291	9.6
-.50	0.00	344	11.4
0.00	.50	253	8.4
.50	1.00	155	5.1
1.00	1.50	258	8.5
1.50	2.00	244	8.1
2.00	2.50	85	2.8
2.50	3.00	323	10.7
3.00	3.50	192	6.3
3.50	4.00	173	5.7
4.00	4.50	75	2.5
4.50	5.00	82	2.7
5.00	5.50	46	1.5
5.50	6.00	105	3.5
6.00	6.50	50	1.7
6.50	7.00	15	.5
7.00	7.50	1	.0
7.50	8.00	0	0.0

126

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 46.M.) DEG.C.

BAND GE.	NUMBER .LT.	PER IN BAND	PER CENT
-------------	----------------	----------------	-------------

-2.00	-1.50	0	0.0
-1.50	-1.00	287	9.5
-1.00	-.50	233	7.7
-.50	0.00	349	11.5
0.00	.50	283	9.4
.50	1.00	143	4.7
1.00	1.50	263	8.7
1.50	2.00	272	9.0
2.00	2.50	123	4.1
2.50	3.00	303	10.0
3.00	3.50	215	7.1
3.50	4.00	173	5.7
4.00	4.50	77	2.5
4.50	5.00	87	2.9
5.00	5.50	58	1.9
5.50	6.00	94	3.1
6.00	6.50	46	1.5
6.50	7.00	9	.3 ***
7.00	7.50	10	.3 ***
7.50	8.00	0	0.0

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 49.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	238	7.9
-1.00	-.50	202	6.7
-.50	0.00	330	10.9
0.00	.50	309	10.2
.50	1.00	147	4.9
1.00	1.50	261	8.6
1.50	2.00	282	9.3
2.00	2.50	169	5.6
2.50	3.00	300	9.9
3.00	3.50	226	7.5
3.50	4.00	169	5.6
4.00	4.50	96	3.2
4.50	5.00	77	2.5
5.00	5.50	84	2.8
5.50	6.00	61	2.0
6.00	6.50	48	1.6
6.50	7.00	20	.7
7.00	7.50	6	.2
7.50	8.00	0	0.0

128

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 52.M.) DEG.C.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	177	5.9	*****
-1.00	-.50	183	6.0	*****
-.50	0.00	270	8.9	*****
0.00	.50	313	10.3	*****
.50	1.00	223	7.4	*****
1.00	1.50	277	9.2	*****
1.50	2.00	276	9.1	*****
2.00	2.50	172	5.7	*****
2.50	3.00	284	9.4	*****
3.00	3.50	273	9.0	*****
3.50	4.00	166	5.5	*****
4.00	4.50	109	3.6	*****
4.50	5.00	80	2.6	*****
5.00	5.50	109	3.6	*****
5.50	6.00	32	1.1	*****
6.00	6.50	44	1.5	*****
6.50	7.00	36	1.2	*****
7.00	7.50	1	.0	*
7.50	8.00	0	0.0	

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 55.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	121	4.0
-1.00	-.50	148	4.9
-.50	0.00	255	8.4
0.00	.50	300	9.9
.50	1.00	265	8.8
1.00	1.50	283	9.4
1.50	2.00	273	9.0
2.00	2.50	199	6.6
2.50	3.00	280	9.3
3.00	3.50	293	9.7
3.50	4.00	184	6.1
4.00	4.50	115	3.8
4.50	5.00	85	2.8
5.00	5.50	121	4.0
5.50	6.00	22	.7
6.00	6.50	65	2.1
6.50	7.00	14	.5
7.00	7.50	1	.0
7.50	8.00	0	0.0
8.00	8.50	1	.0
8.50	9.00	0	0.0

130

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 58.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	85	2.8
-1.00	-.50	114	3.8
-.50	0.00	218	7.2
0.00	.50	305	10.1
.50	1.00	262	8.7
1.00	1.50	331	10.9
1.50	2.00	258	8.5
2.00	2.50	220	7.3
2.50	3.00	273	9.0
3.00	3.50	285	9.4
3.50	4.00	222	7.3
4.00	4.50	128	4.2
4.50	5.00	112	3.7
5.00	5.50	114	3.8
5.50	6.00	50	1.7
6.00	6.50	37	1.2
6.50	7.00	8	.3
7.00	7.50	0	0.0
7.50	8.00	2	.1
8.00	8.50	1	.0
8.50	9.00	0	0.0

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

HISTOGRAM OF T(720., 61.M.) DEG.C.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	56	1.9 *****
-1.00	-.50	98	3.2 *****
-.50	0.00	163	5.4 *****
0.00	.50	311	10.3 *****
.50	1.00	257	8.5 *****
1.00	1.50	339	11.2 *****
1.50	2.00	287	9.5 *****
2.00	2.50	223	7.4 *****
2.50	3.00	277	9.2 *****
3.00	3.50	276	9.1 *****
3.50	4.00	266	8.8 *****
4.00	4.50	151	5.0 *****
4.50	5.00	150	5.0 *****
5.00	5.50	85	2.8 *****
5.50	6.00	60	2.0 *****
6.00	6.50	19	.6 ****
6.50	7.00	4	.1 *
7.00	7.50	2	.1 *
7.50	8.00	0	0.0
8.00	8.50	1	.0 *
8.50	9.00	0	0.0

TOTAL NO. OF SAMPLES 3025

OUTSIDE RANGE 0

MOORING 757
DEPTH (M) 38

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 7127
LATITUDE 44 27.55 N
LONGITUDE 62 59.27 W
WATER DEPTH (M) 108
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.06
SAMPLE INTERVAL 30 MINUTES

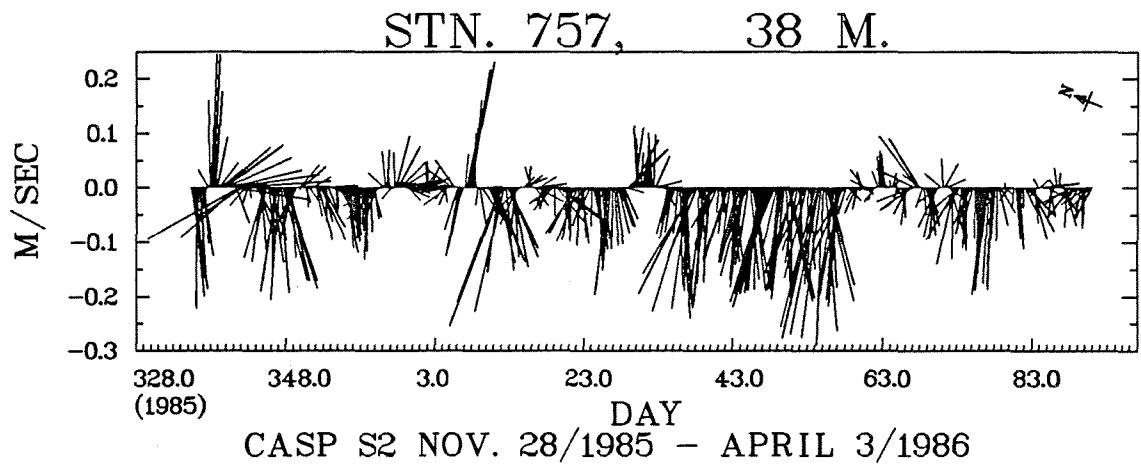
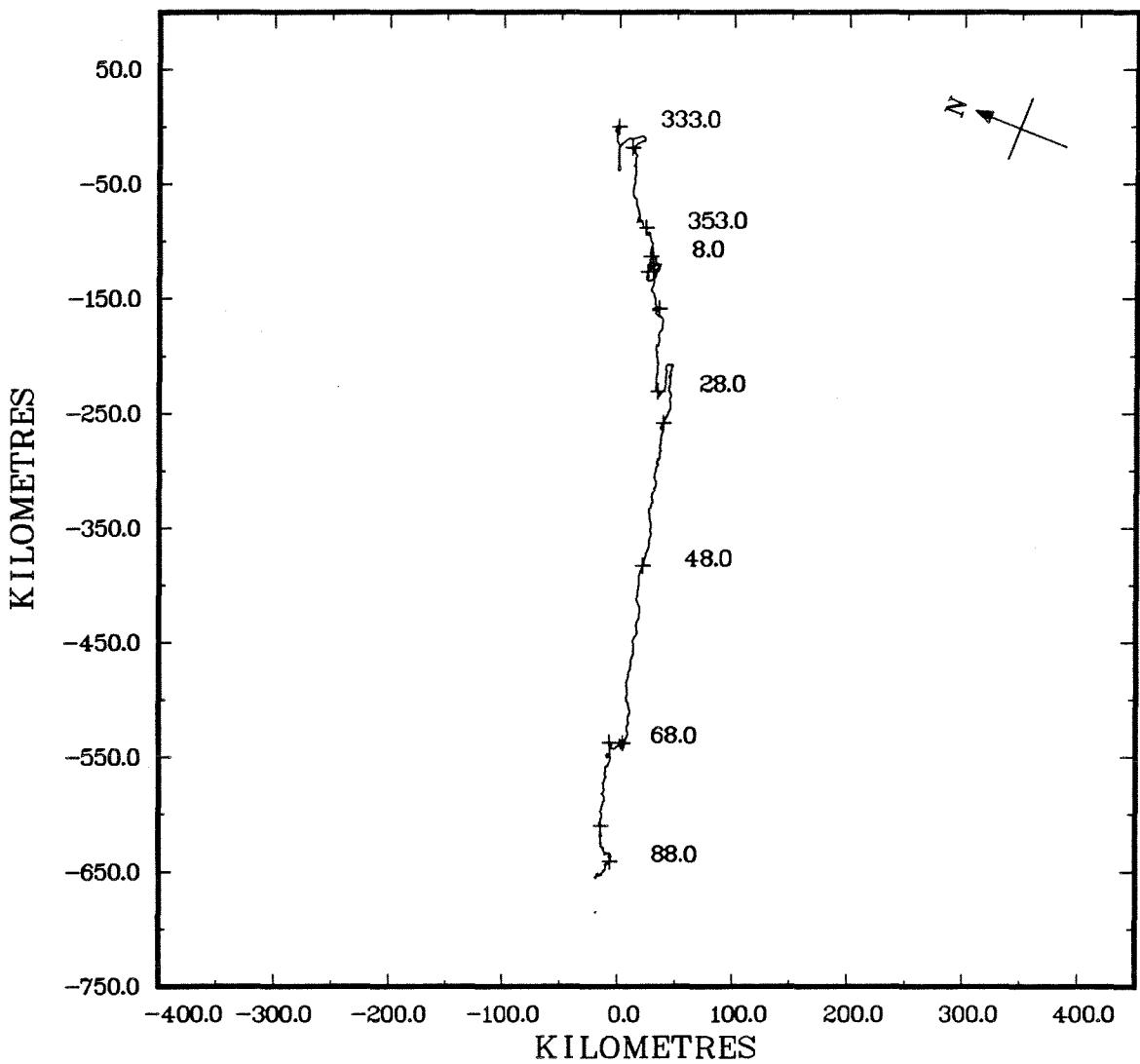
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.111	.017	.398	.067	6051
U(158° T) COMP VEL(M/S)	-.002	-.262	.257	.053	6051
V(68° T) COMP VEL(M/S)	-.060	-.386	.368	.101	6051
TEMPERATURE(DEG.C.)	1.520	-1.463	7.215	2.055	6051
SALINITY	31.457	30.621	32.291	.304	6051
SIGMA-T(KG/M**3)	25.139	24.037	25.838	.351	6051

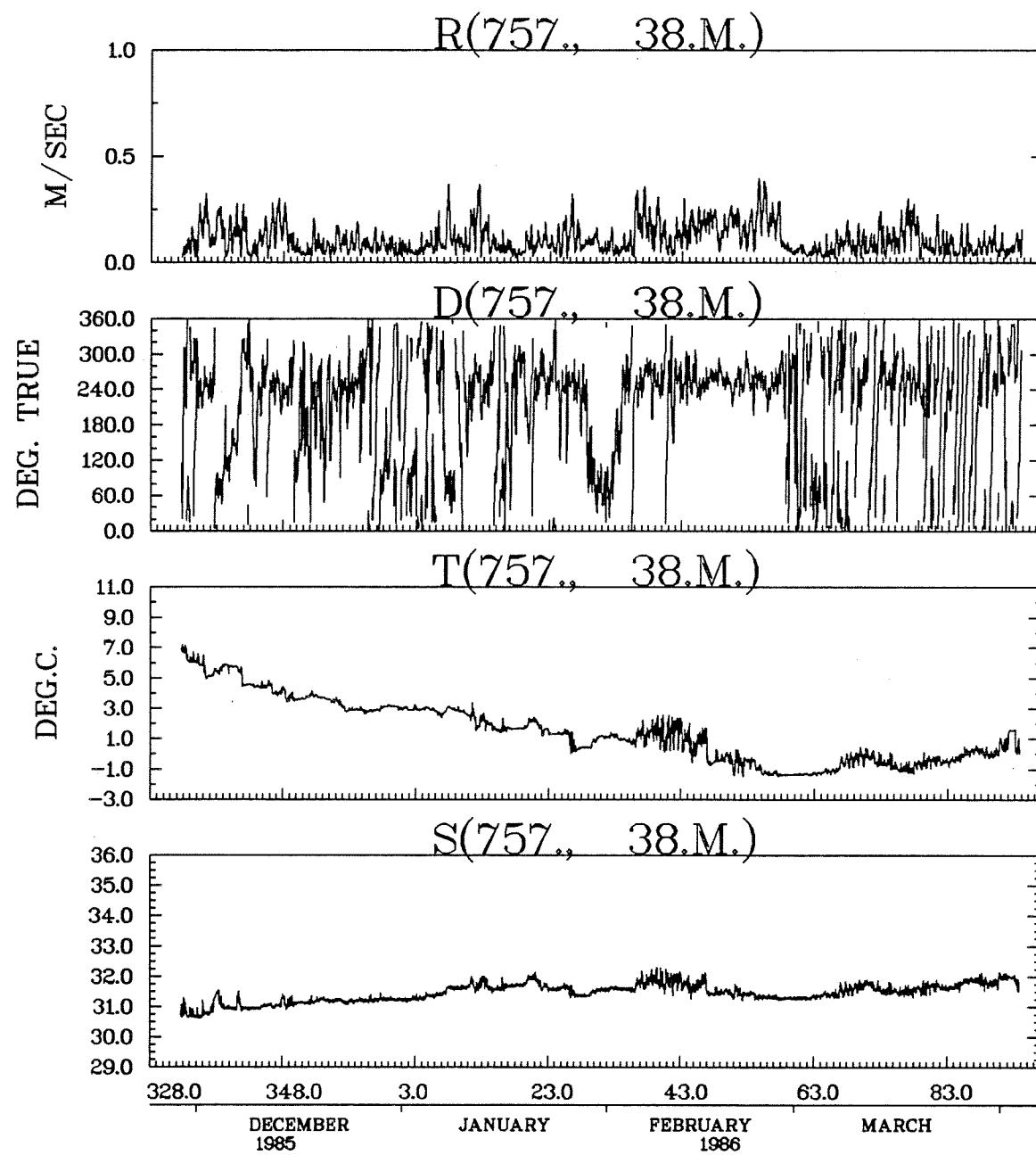
COMMENTS

PADDLE WHEEL ROTOR USED

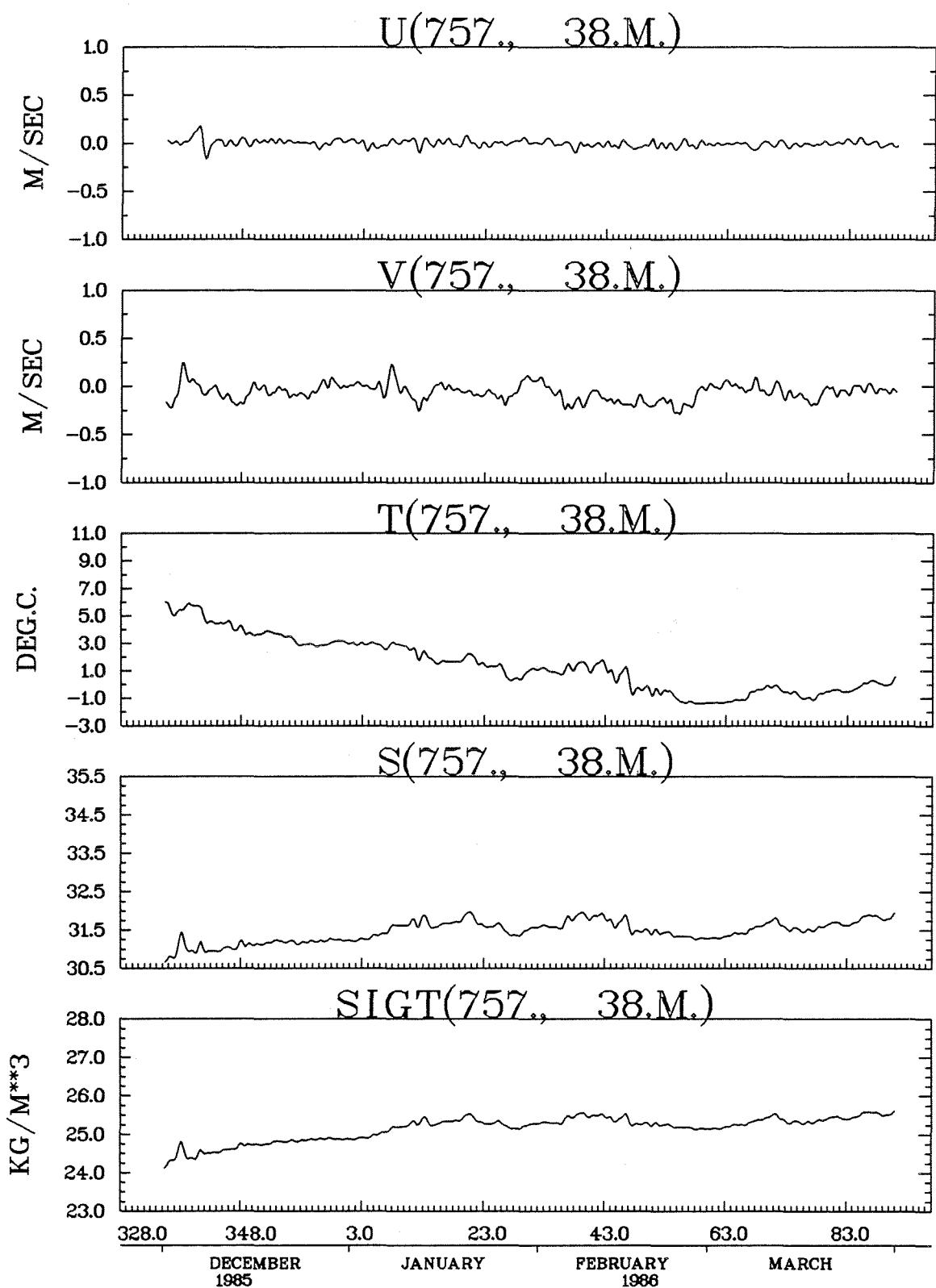
AUTOEDIT DESPIKE RUN ON TEMPERATURE AND SALINITY

STN. 757, 38 M.

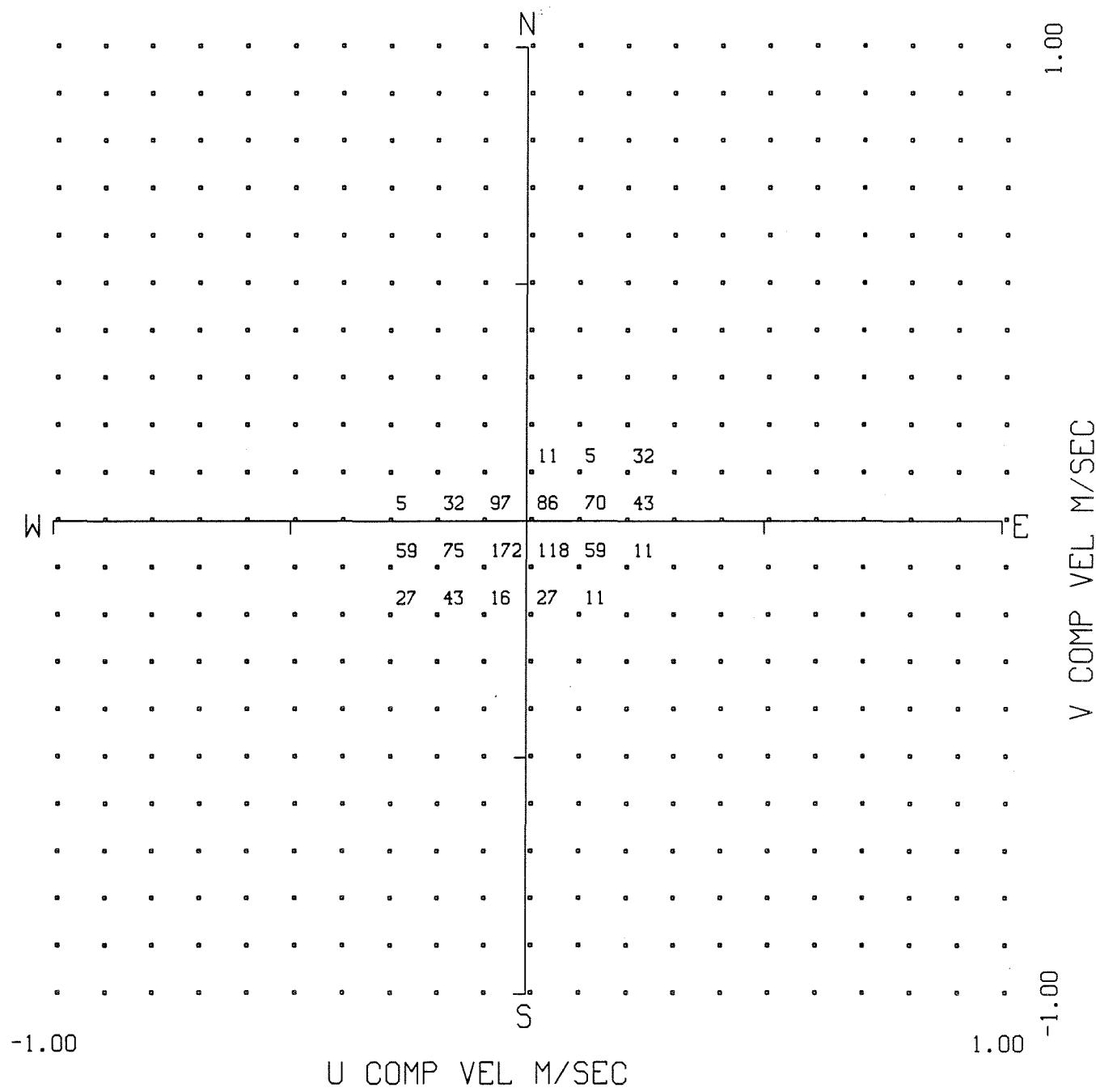




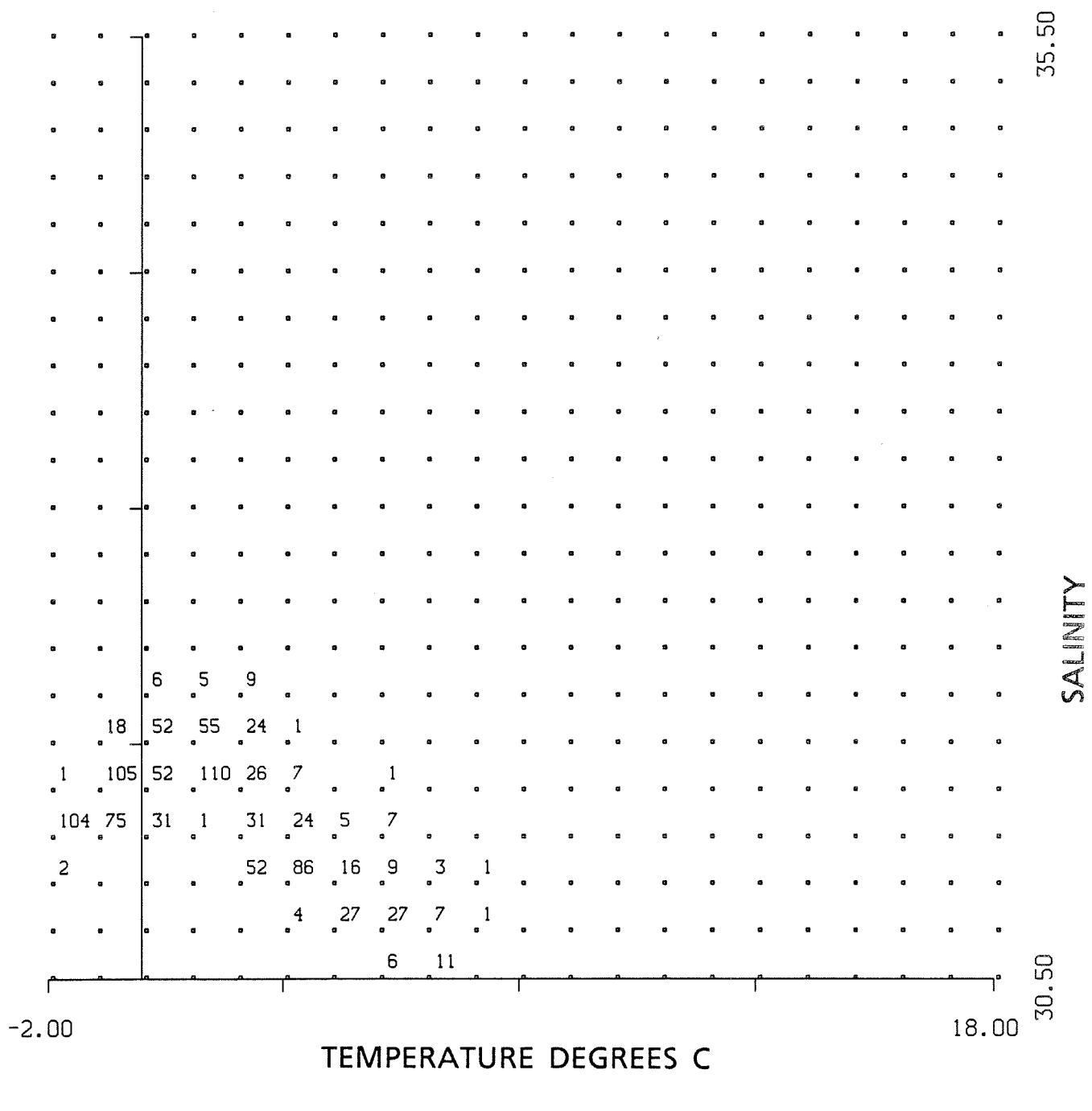
CASP S2 NOV. 28/1985 – APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 757 DEPTH 38 M.
START TIME 28/11/ 85 16:59:55.5 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 757 DEPTH 38 M.
 START TIME 28/11/ 85 16:59:55.5 GMT
 FREQUENCY UNIT 0.1%

MOORING 720
DEPTH (M) 70

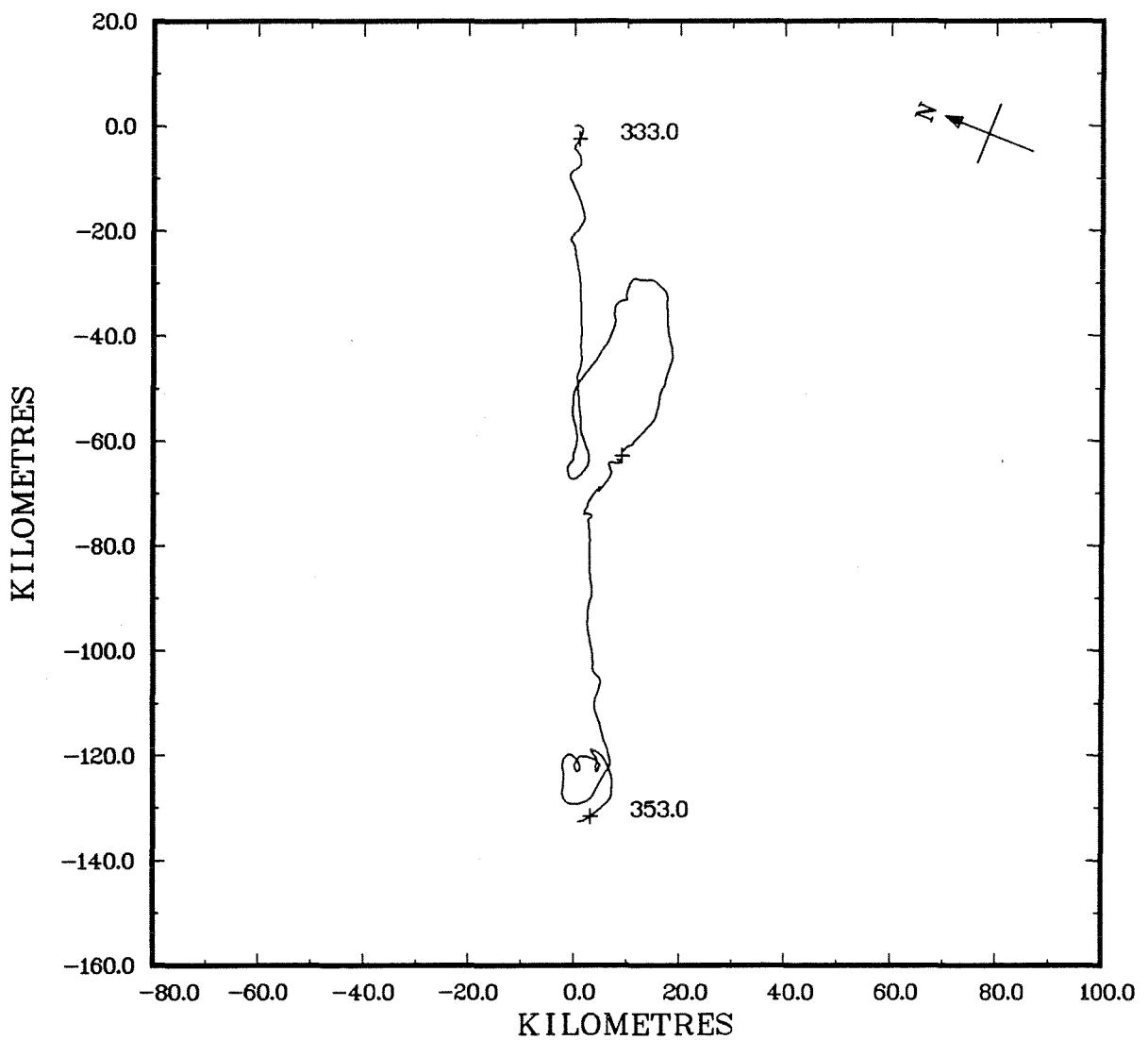
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5571
LATITUDE 44 27.41 N
LONGITUDE 62 59.10 W
WATER DEPTH (M) 100
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.00
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.163	.040	.370	.076	983
U(158° T) COMP VEL (M/S)	.001	-.229	.190	.075	983
V(68° T) COMP VEL (M/S)	-.075	-.369	.336	.145	983
TEMPERATURE(DEG.C.)	2.321	-1.309	6.612	1.532	6048
SALINITY	32.065	31.329	33.424	.366	6048
SIGMA-T(KG/M**3)	25.582	24.737	26.505	.301	6048

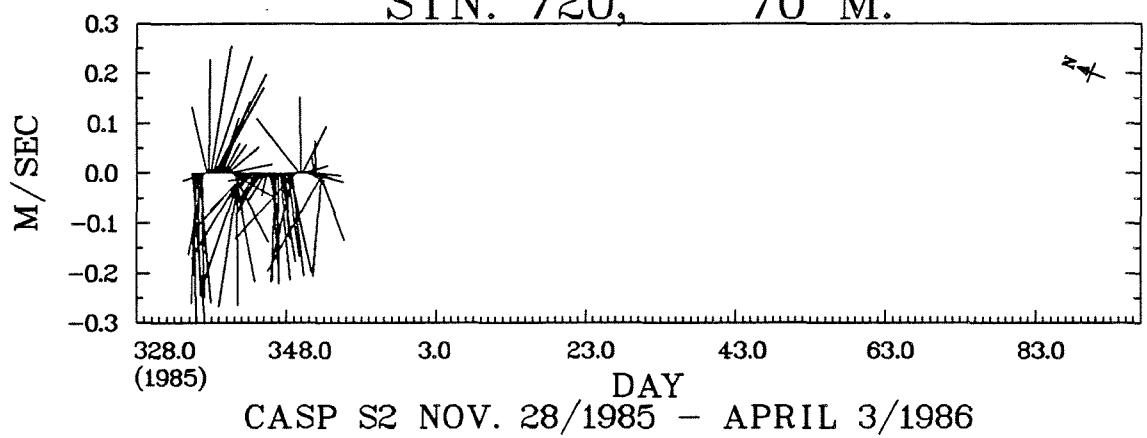
COMMENTS

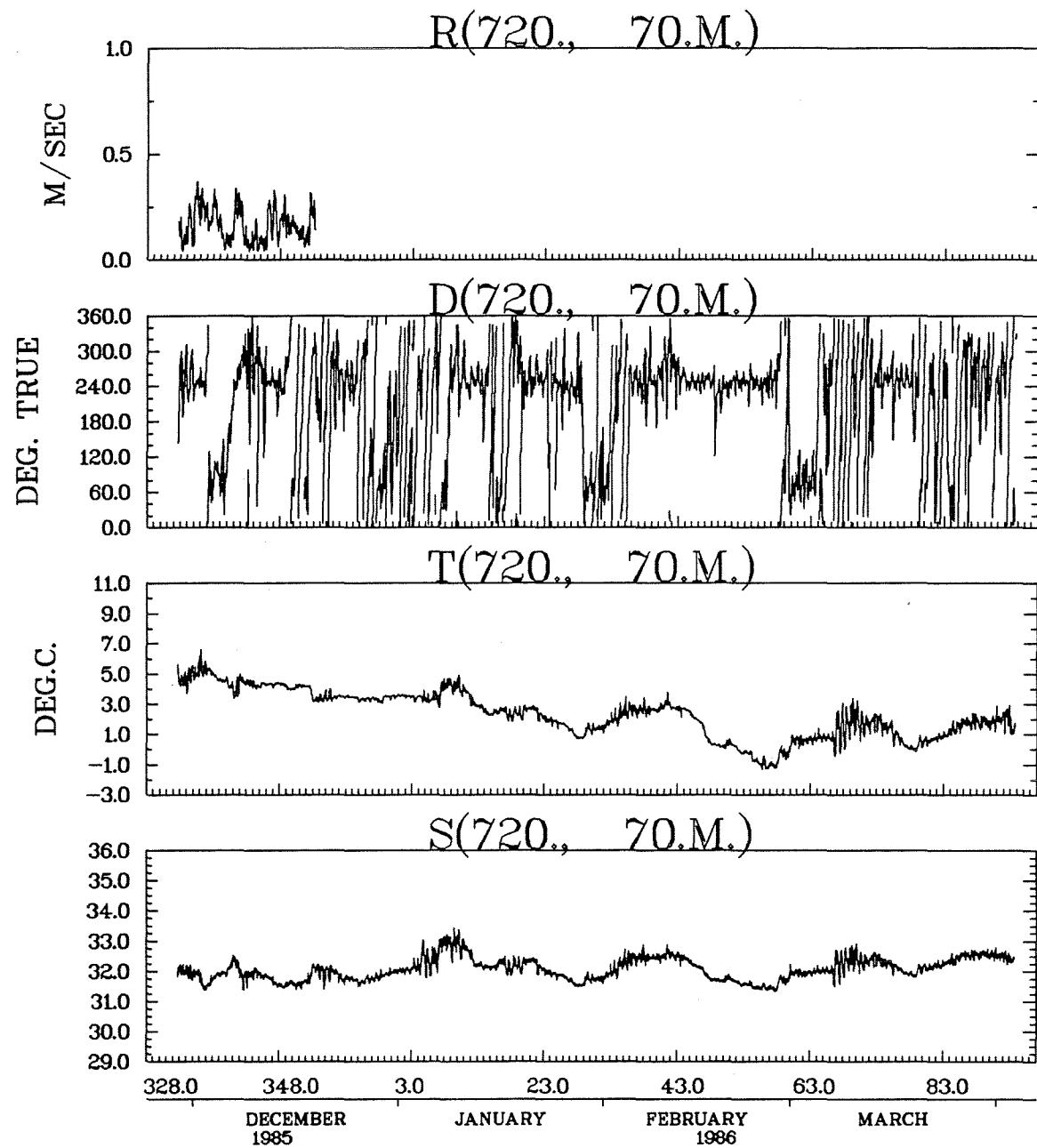
RATE DROPPED FROM DAY 353 1985 TO END OF RECORD
ROTOR COUNTER FAILED

STN. 720, 70 M.

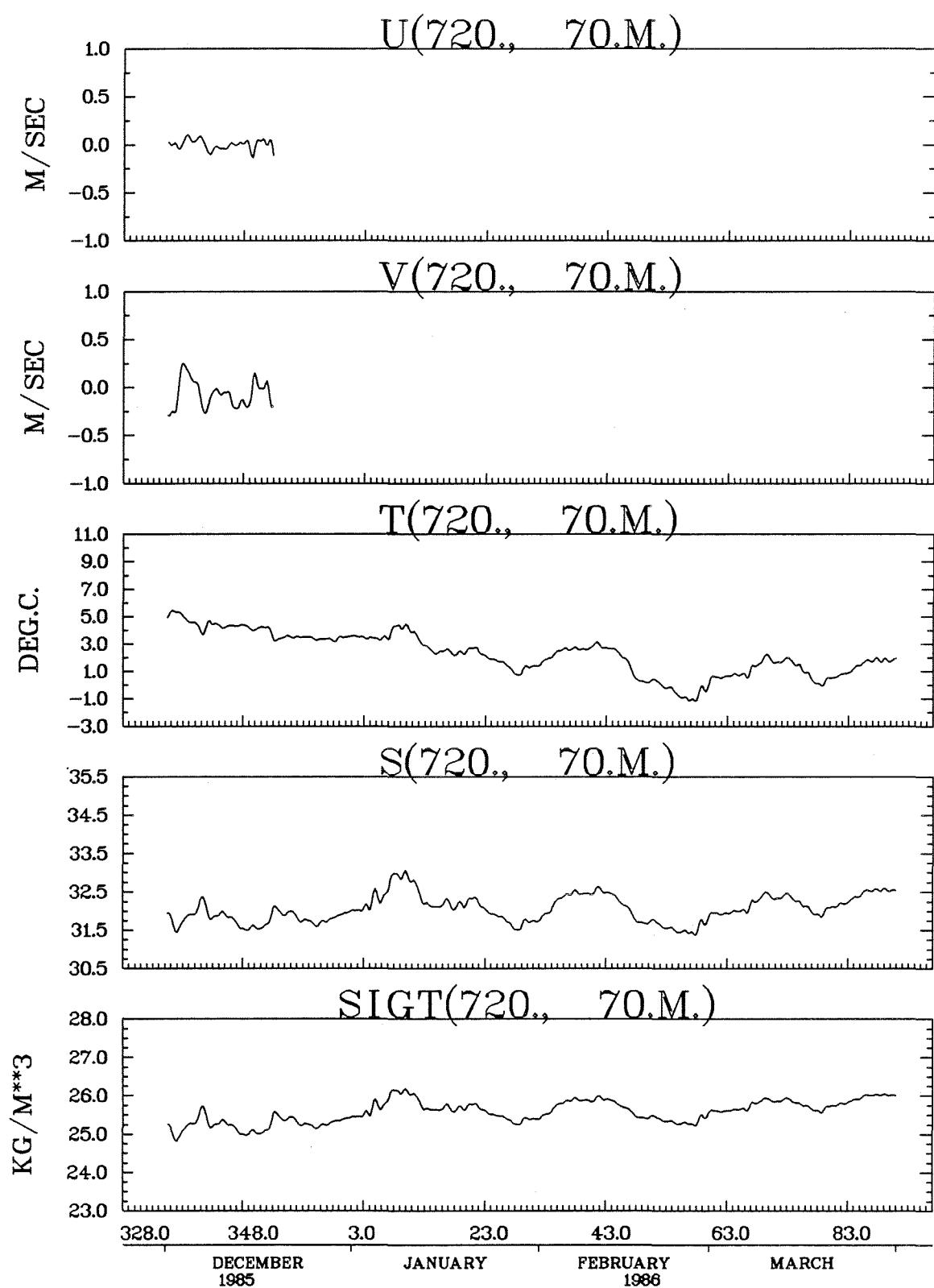


STN. 720, 70 M.

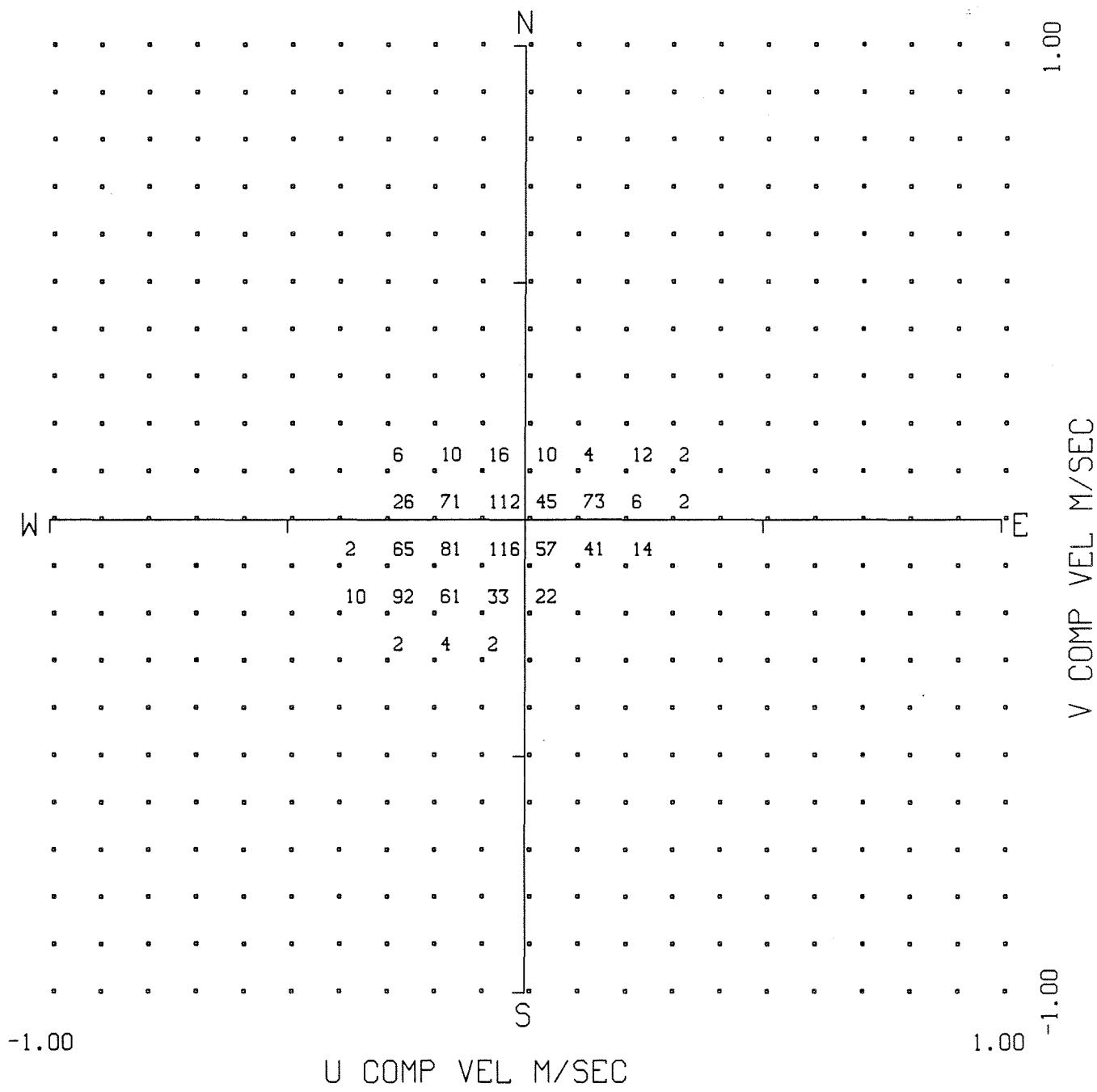




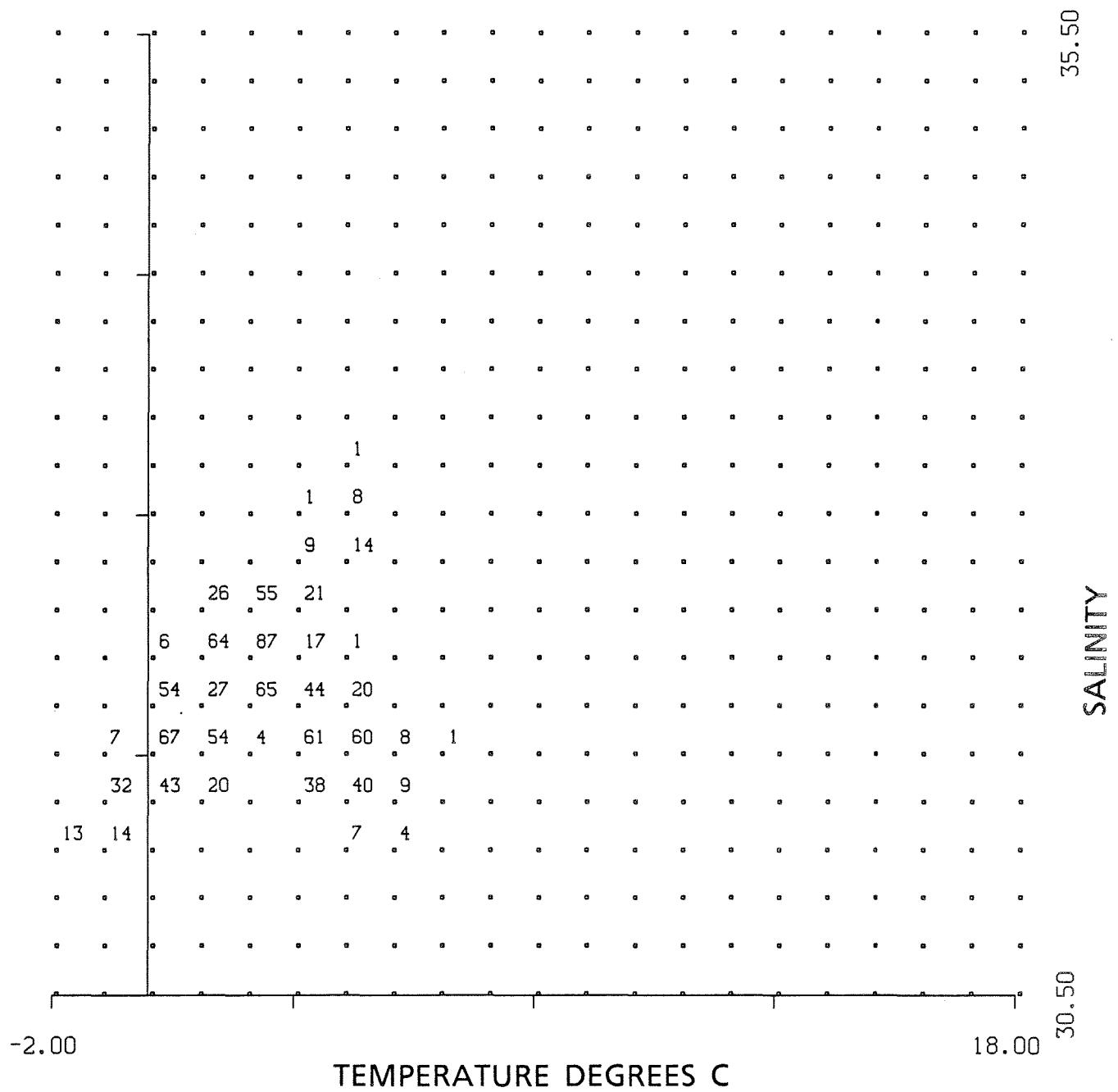
CASP S2 NOV. 28/1985 - APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 720 DEPTH 70 M.
 START TIME 28/11/ 85 17:59:55.5 GMT
 FREQUENCY UNIT 0.1%



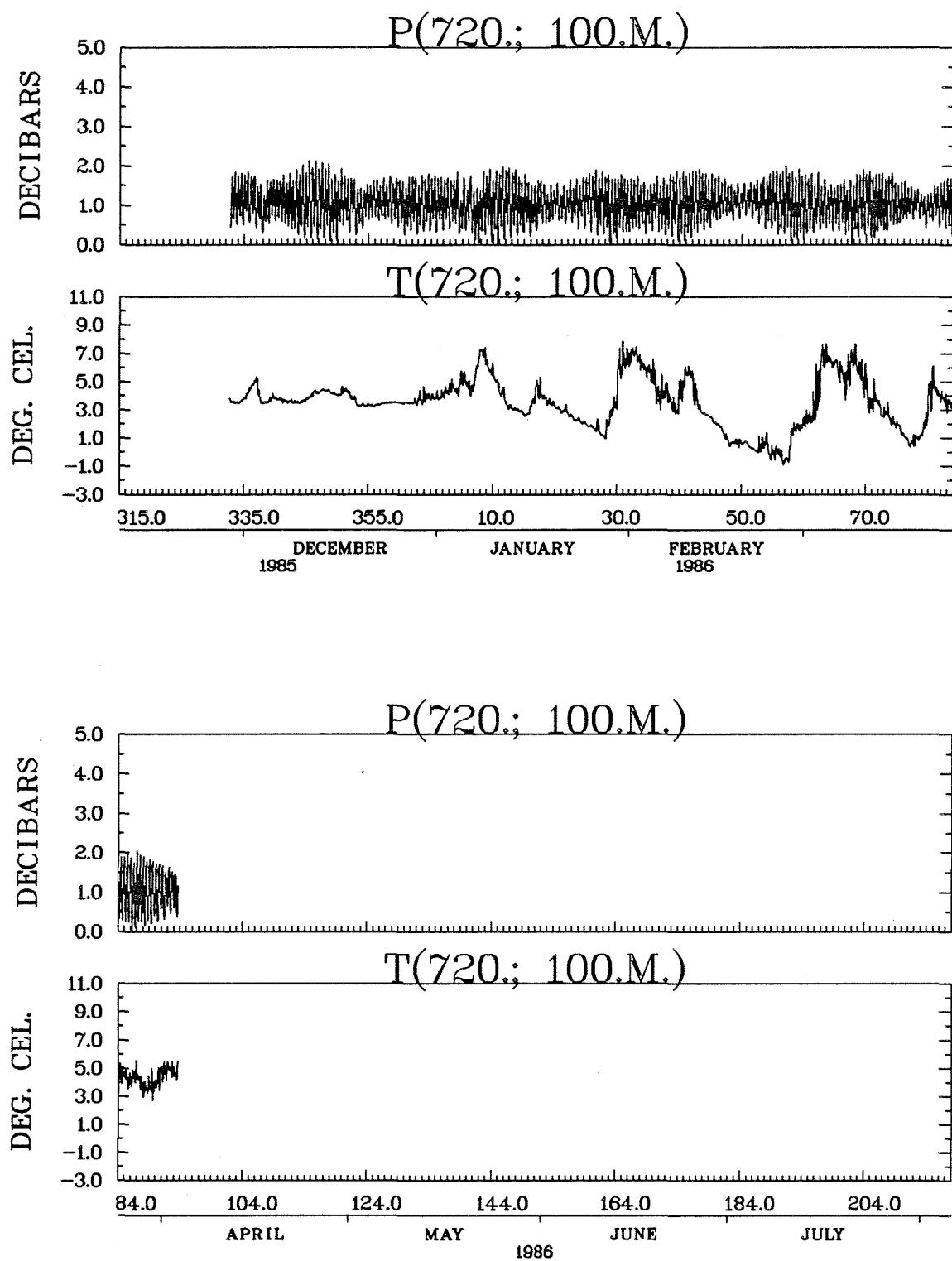
TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 720 DEPTH 70 M.
 START TIME 28/11/ 85 17:59:55.5 GMT
 FREQUENCY UNIT 0.1%

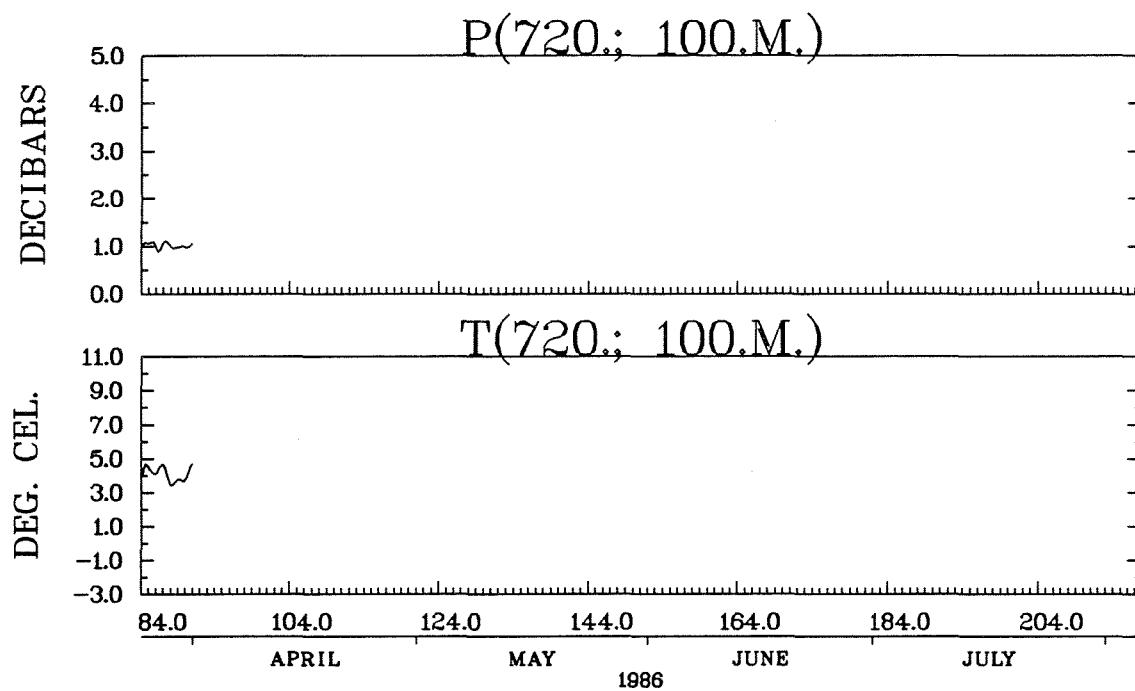
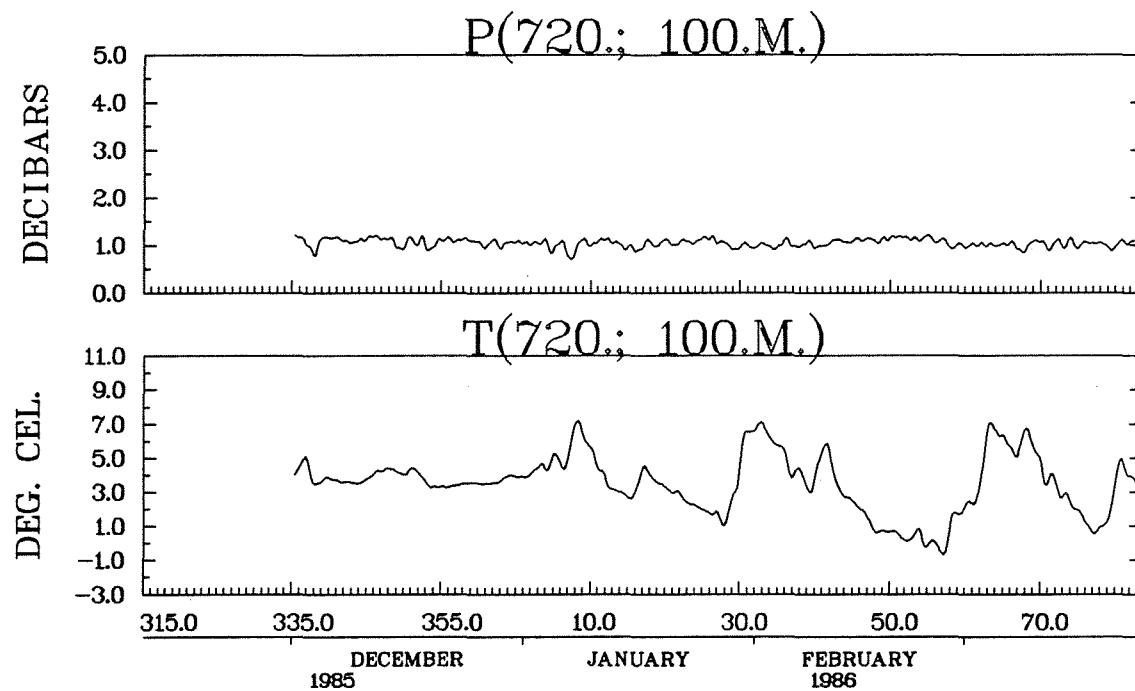
MOORING 720
DEPTH (M) 100

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 335
LATITUDE 44 27.33 N
LONGITUDE 62 59.07 W
WATER DEPTH (M) 100
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 126.00
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	3.565	-.910	7.810	1.666	3024
PRESSURE(DECIBARS)	1.052	.000	2.130	.458	3024



CASP S2 NOV. 28/1985 - APRIL 3/1986



CASP S2 NOV. 28/1985 – APRIL 3/1986

HISTOGRAM OF T(720.; 100.M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	0	0.0	
-1.00	-.50	23	.8	****
-.50	0.00	36	1.2	*****
0.00	.50	99	3.3	*****
.50	1.00	122	4.0	*****
1.00	1.50	104	3.4	*****
1.50	2.00	143	4.7	*****
2.00	2.50	143	4.7	*****
2.50	3.00	205	6.8	*****
3.00	3.50	418	13.8	*****
3.50	4.00	631	20.9	*****
4.00	4.50	372	12.3	*****
4.50	5.00	207	6.8	*****
5.00	5.50	135	4.5	*****
5.50	6.00	134	4.4	*****
6.00	6.50	121	4.0	*****
6.50	7.00	65	2.1	*****
7.00	7.50	58	1.9	*****
7.50	8.00	8	.3	**

148

TOTAL NO. OF SAMPLES 3024

OUTSIDE RANGE 0

MOORING 721
DEPTH (M) 16

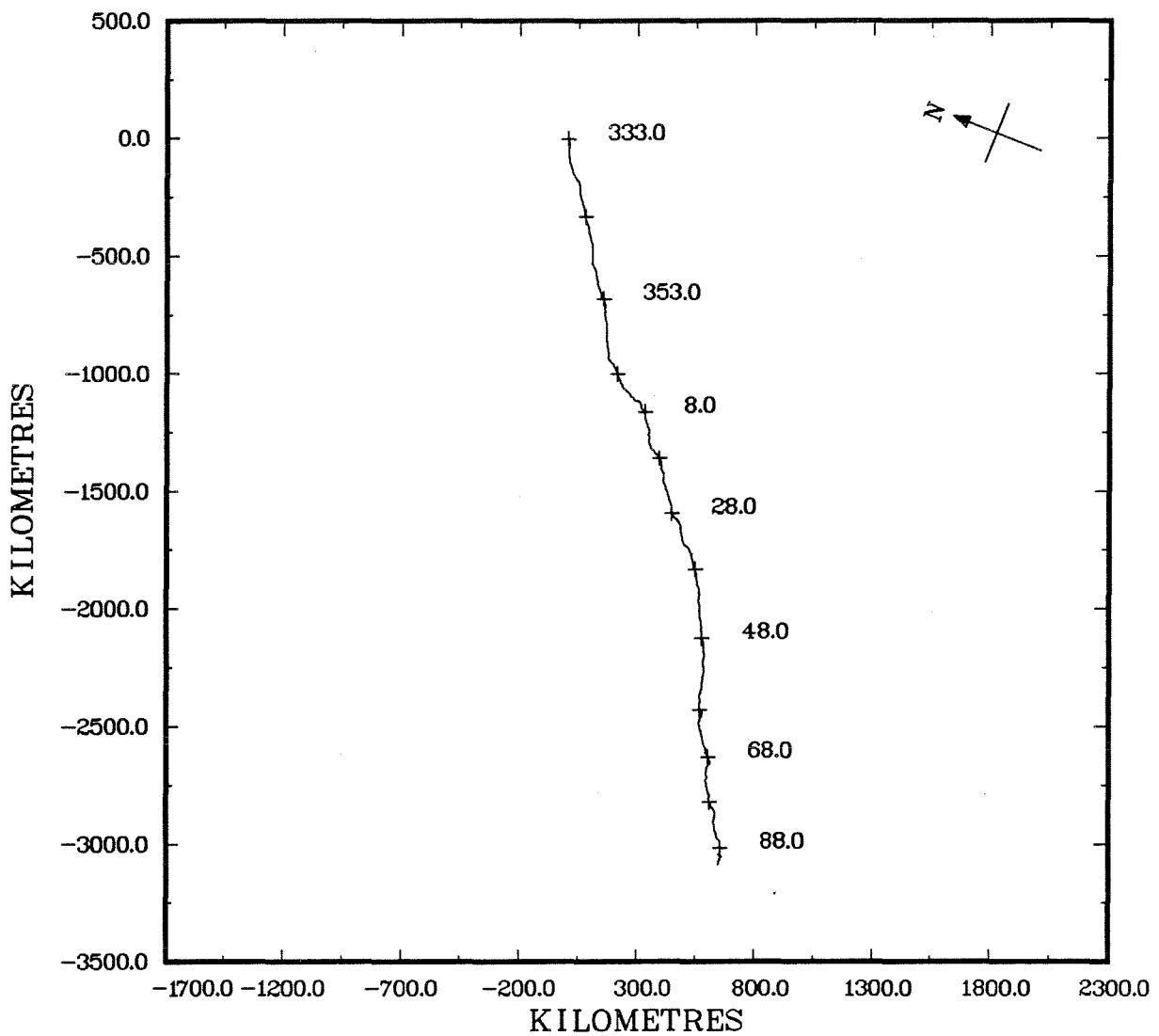
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 1277
LATITUDE 44 18.94 N
LONGITUDE 62 56.19 W
WATER DEPTH (M) 175
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.83
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.316	.033	.742	.117	6136
U(158° T) COMP VEL(M/S)	.059	-.371	.612	.114	6136
V(68° T) COMP VEL(M/S)	-.280	-.735	.295	.138	6136
TEMPERATURE(DEG.C.)	1.179	-1.454	6.461	1.873	6136
SALINITY	31.309	30.470	32.005	.259	6136
SIGMA-T(KG/M**3)	25.046	24.067	25.617	.306	6136

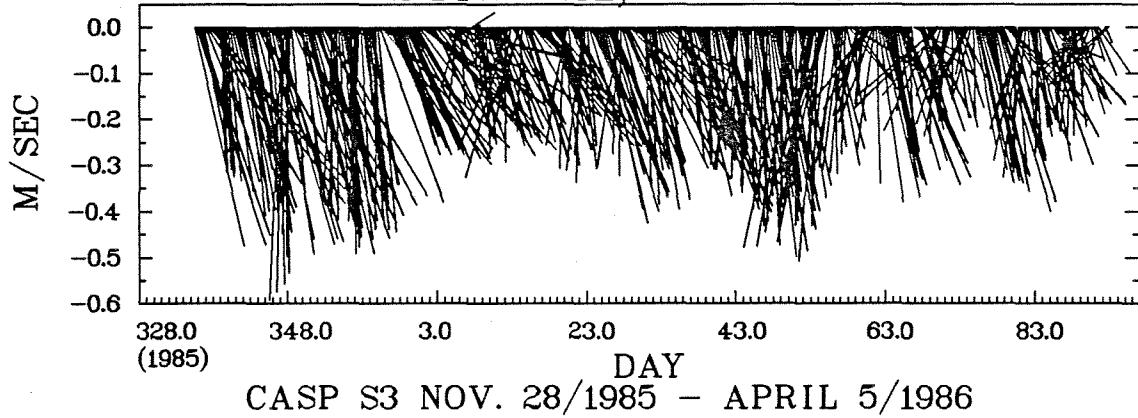
COMMENTS

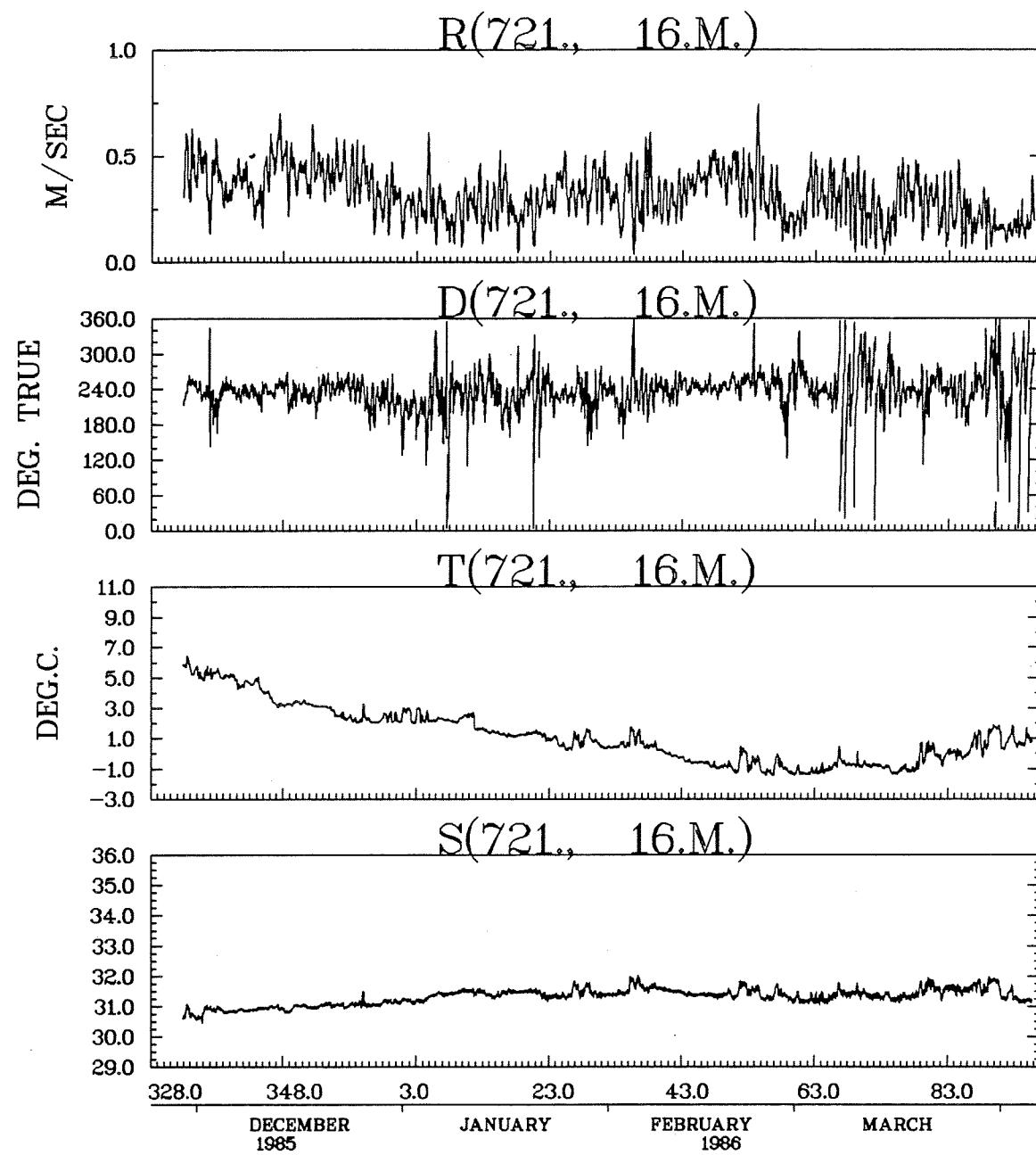
PADDLE WHEEL ROTOR USED
ONE EXTRA CYCLE AFTER RECOVERY STARTED
THIS LEG OF MOORING BROKE LOOSE AFTER RECOVERY STARTED
THEN SPOTTED BY FISHERMEN

STN. 721, 16 M.

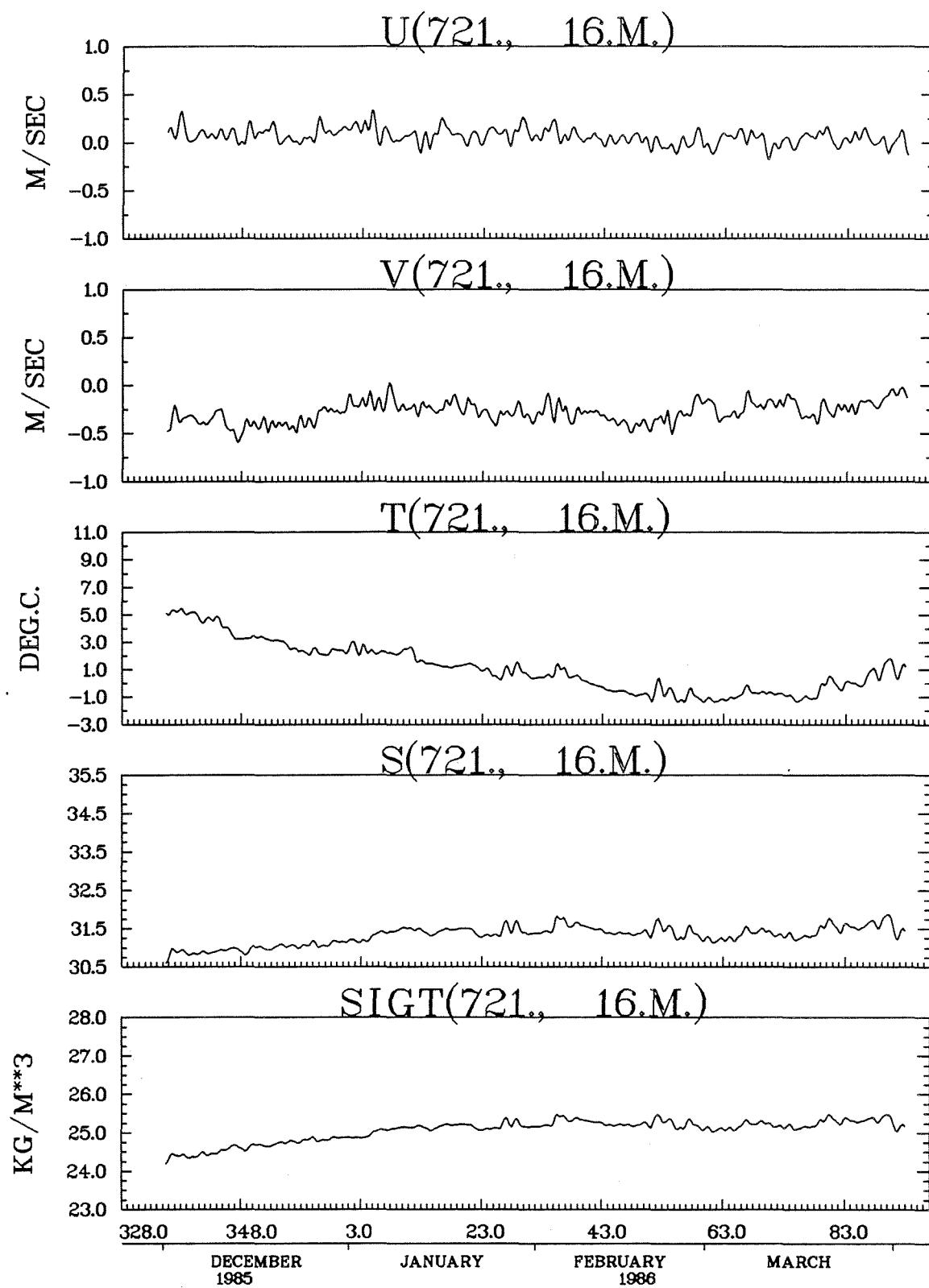


STN. 721, 16 M.

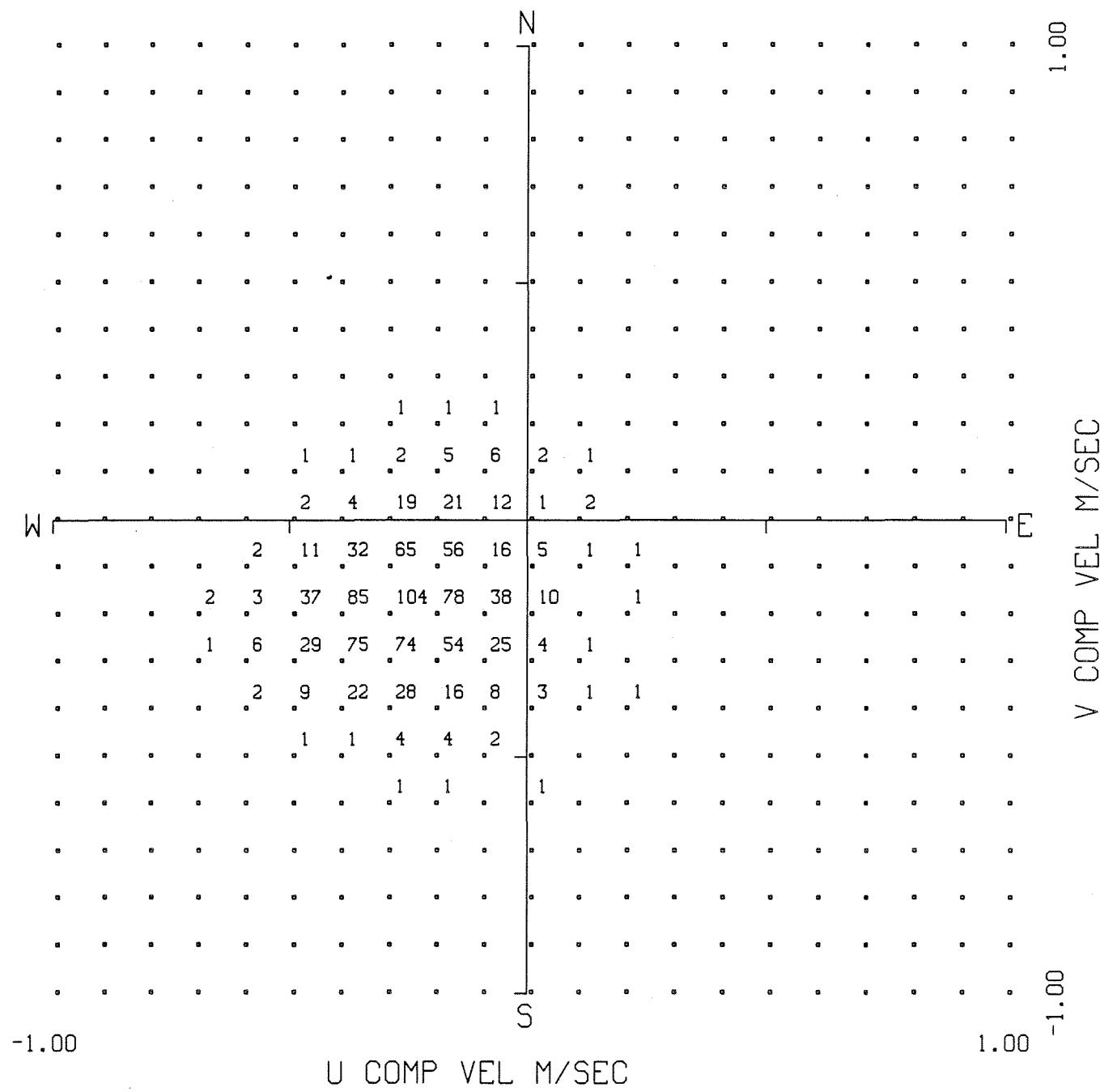




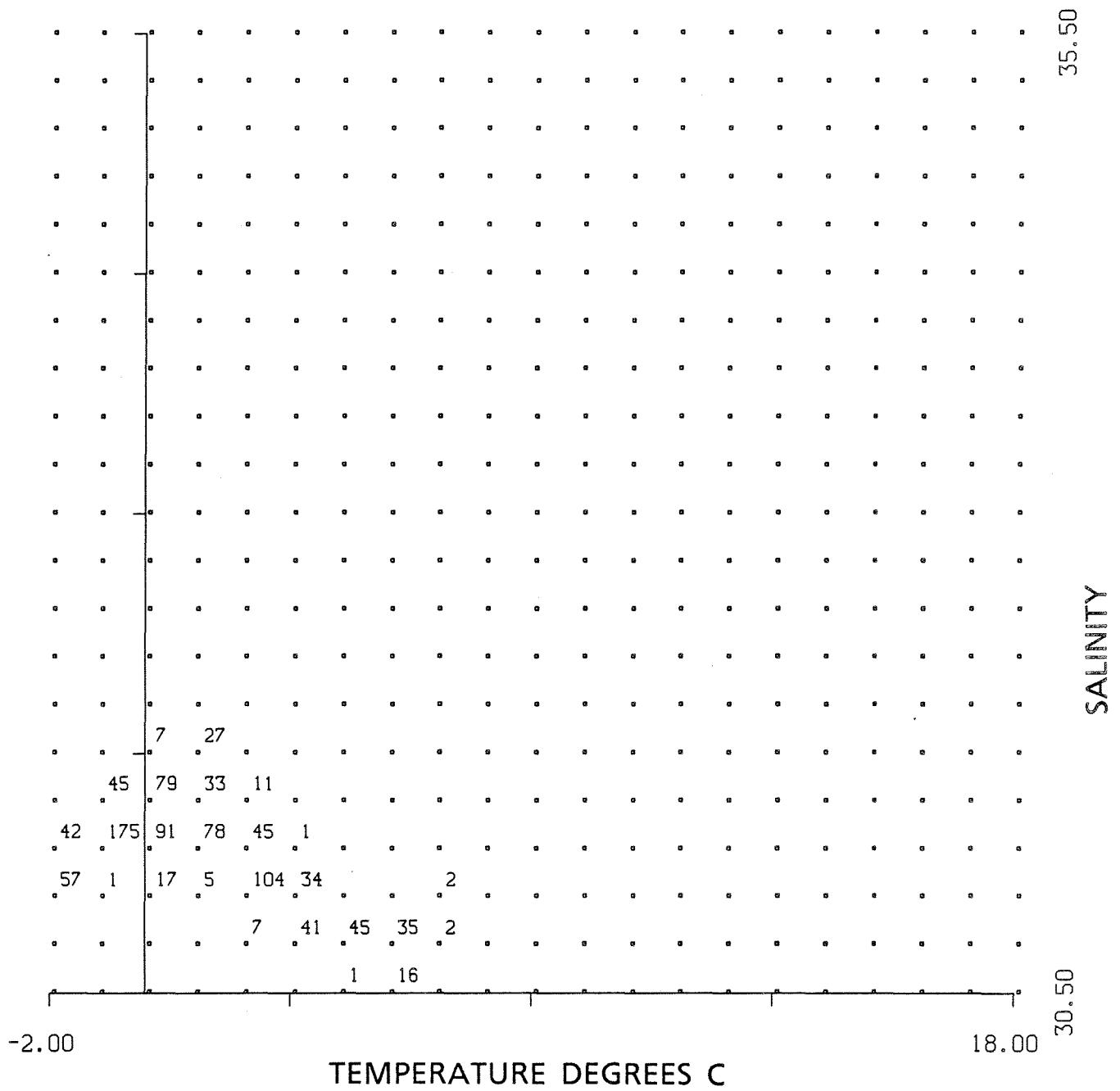
CASP S3 NOV. 28/1985 – APRIL 5/1986



CASP S3 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 721 DEPTH 16 M.
 START TIME 28/11/ 85 20:59:55.5 GMT
 FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 721 DEPTH 16 M.
START TIME 28/11/ 85 20:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 721
DEPTH (M) 50

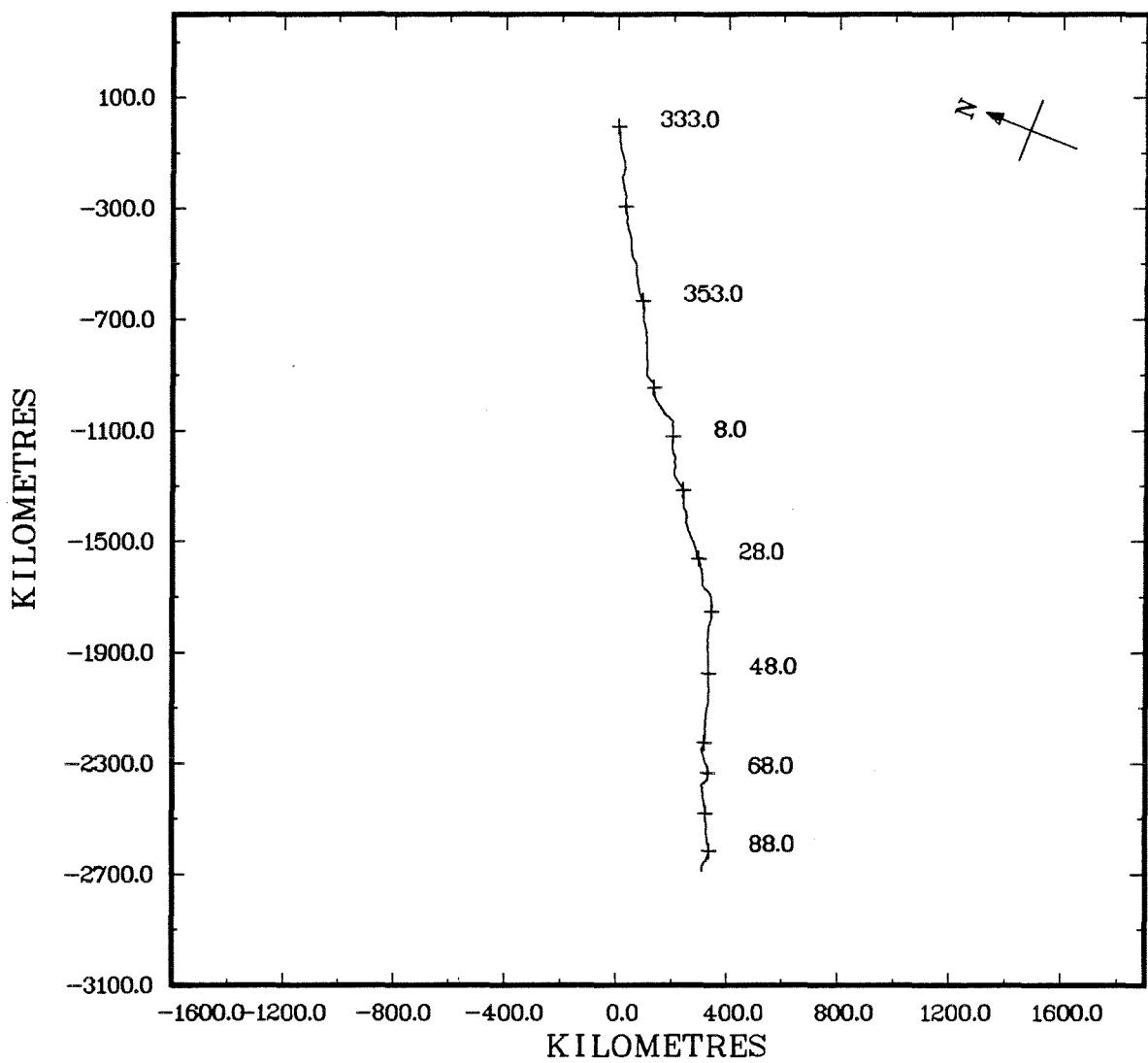
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 1607
LATITUDE 44 18.86 N
LONGITUDE 62 56.28 W
WATER DEPTH (M) 170
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.83
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.264	.020	.676	.121	6136
U(158° T) COMP VEL(M/S)	.028	-.329	.411	.087	6136
V(68° T) COMP VEL(M/S)	-.243	-.647	.205	.130	6136
TEMPERATURE(DEG.C.)	2.173	-1.271	8.703	1.696	6136
SALINITY	31.784	30.763	32.732	.359	6136
SIGMA-T(KG/M**3)	25.366	24.021	25.979	.370	6136

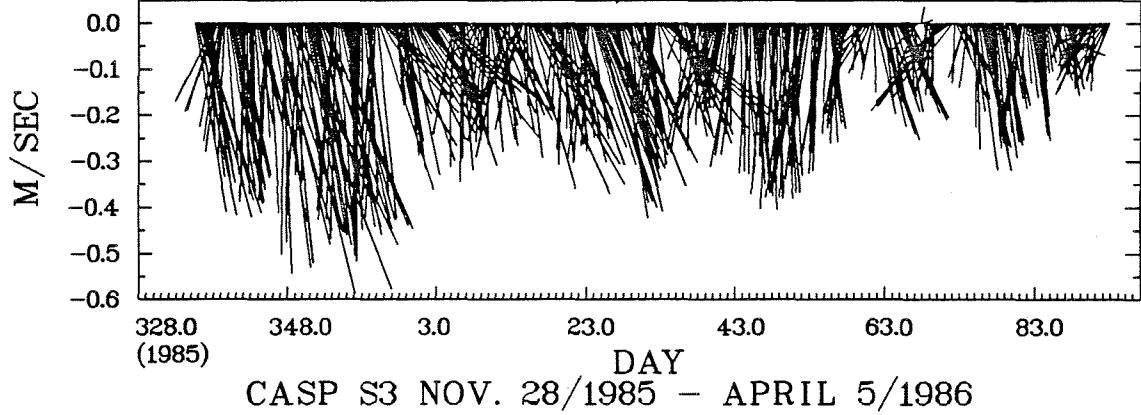
COMMENTS

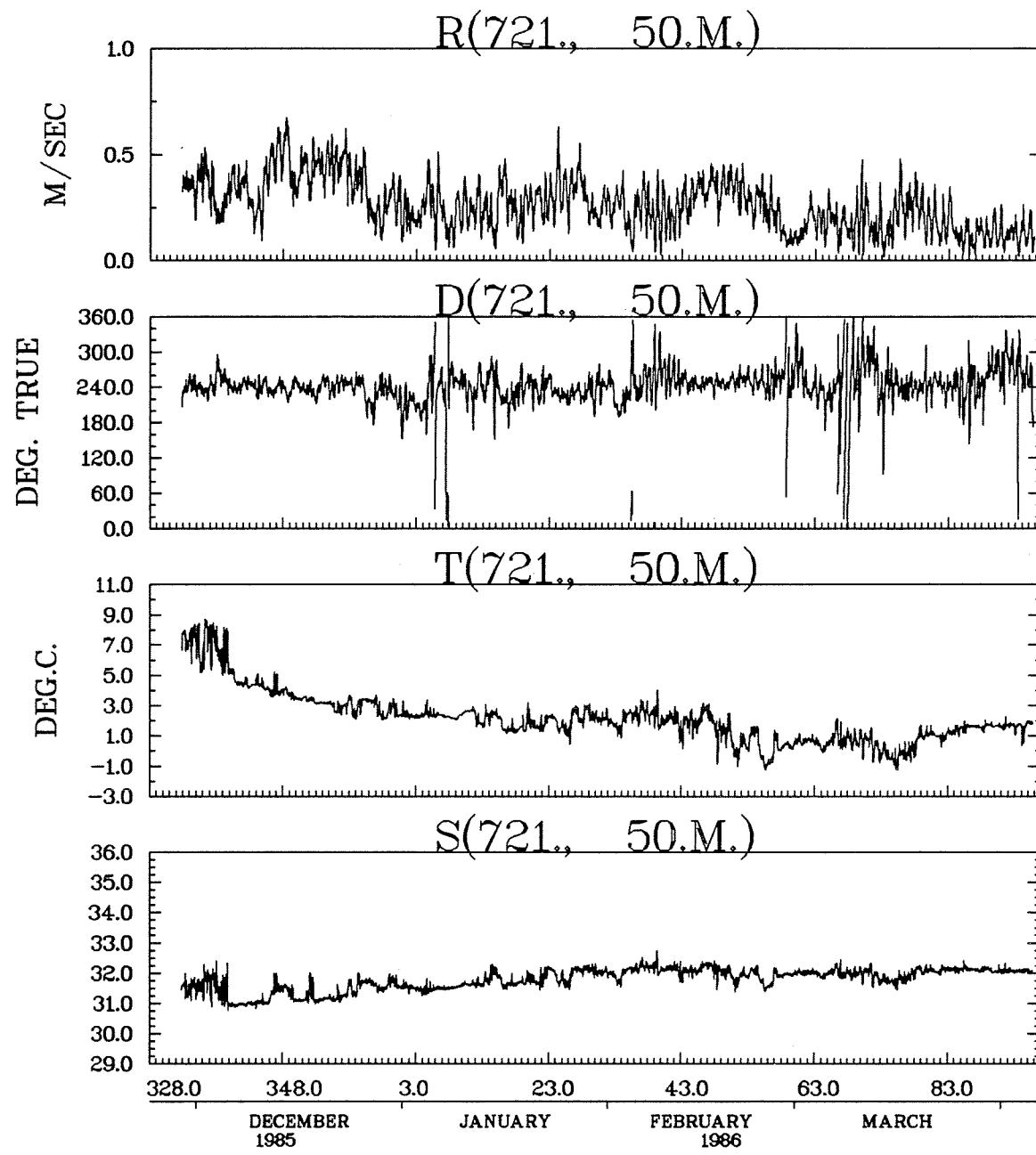
QUARTZ LINER OF CONDUCTIVITY CELL WAS DISCOVERED BROKEN DURING
CONDUCTIVITY TEMPERATURE POST CALIBRATIONS
CONDUCTIVITY SEEMS TO HAVE WORKED OK FOR THE DURATION OF THE MOORING

STN. 721, 50 M.

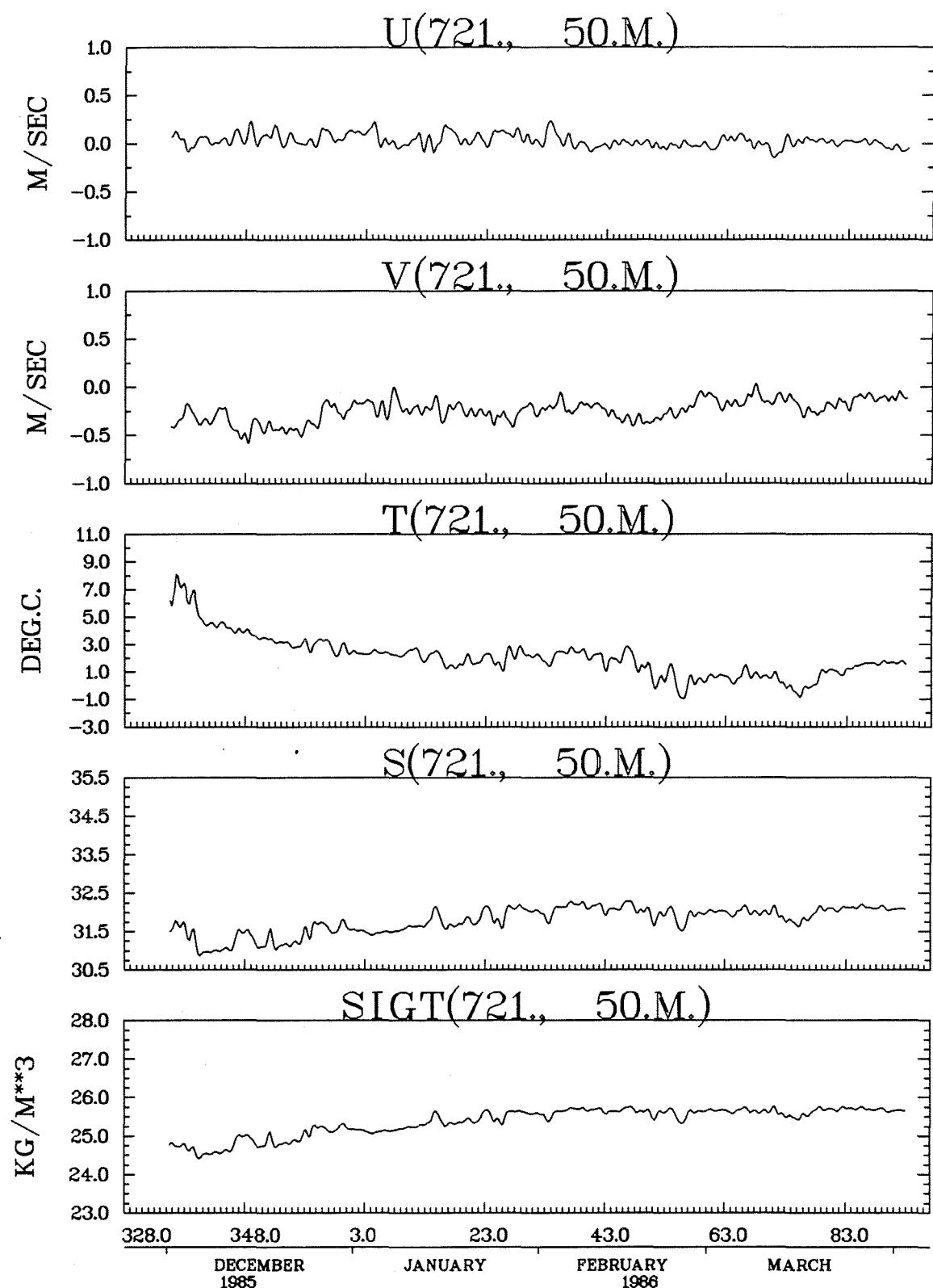


STN. 721, 50 M.

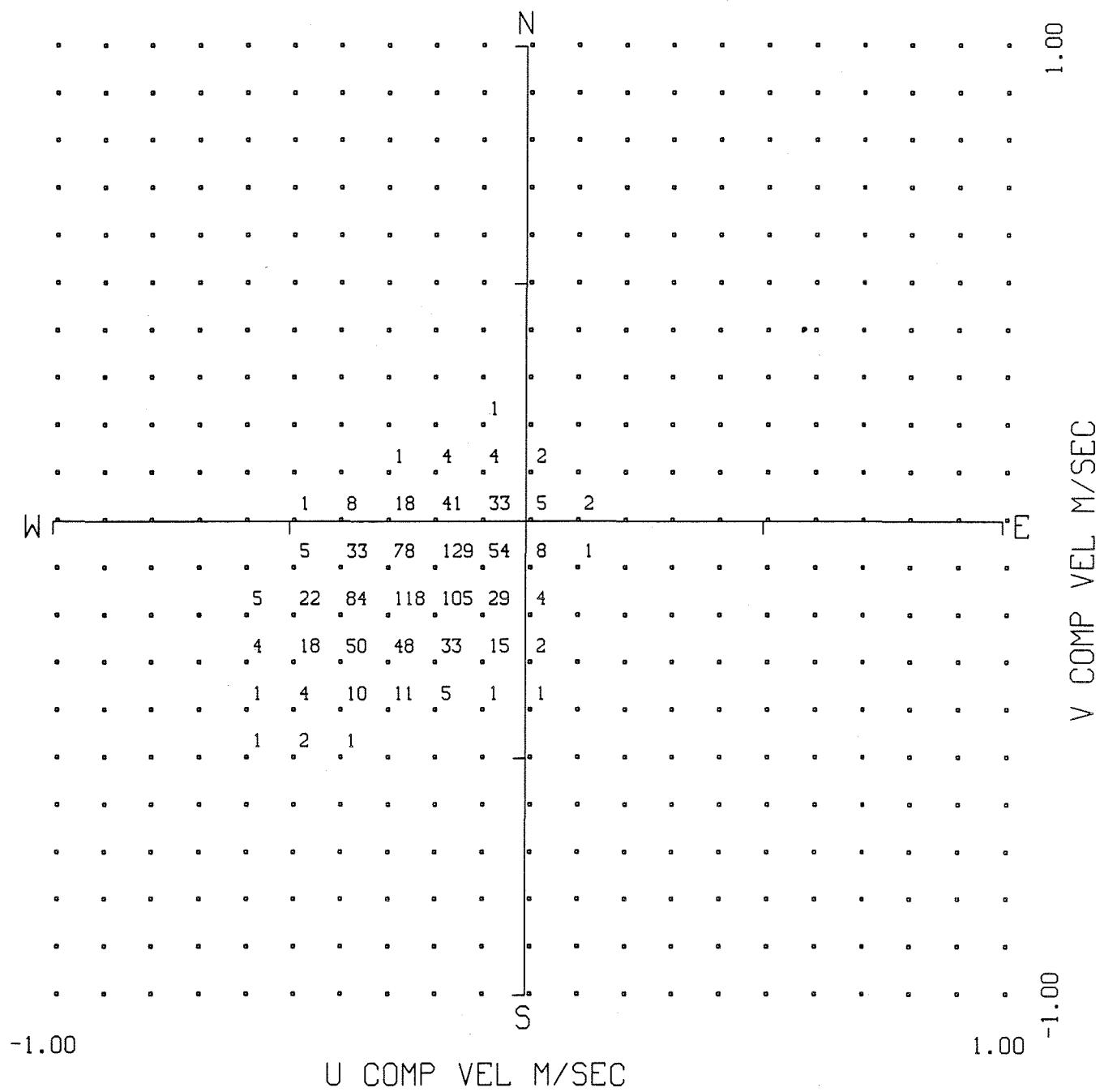




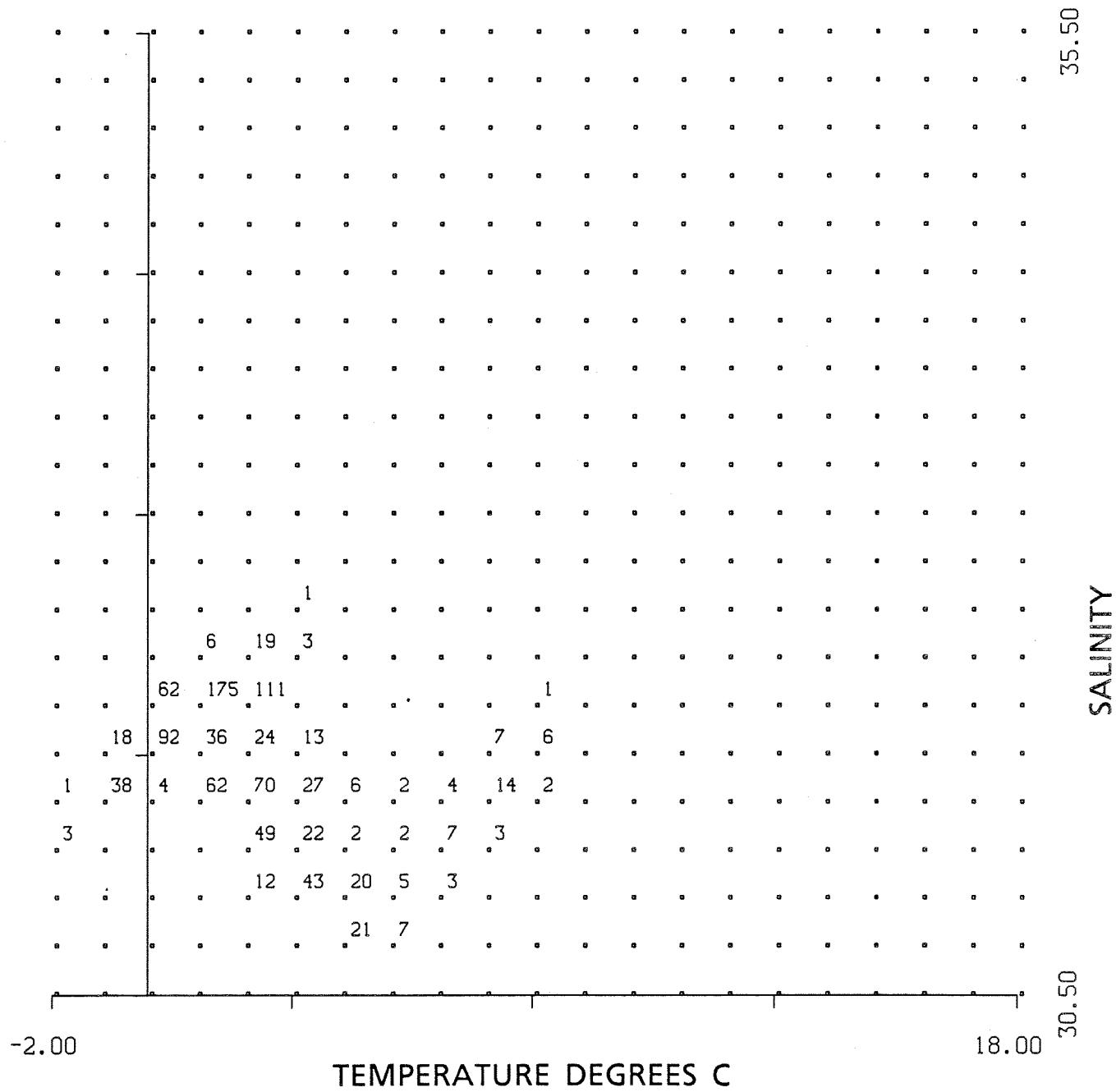
CASP S3 NOV. 28/1985 – APRIL 5/1986



CASP S3 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 721 DEPTH 50 M.
 START TIME 28/11/ 85 20:59:55.5 GMT
 FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 721 DEPTH 50 M.
 START TIME 28/11/ 85 20:59:55.5 GMT
 FREQUENCY UNIT 0.1%

MOORING 721
DEPTH (M) 70

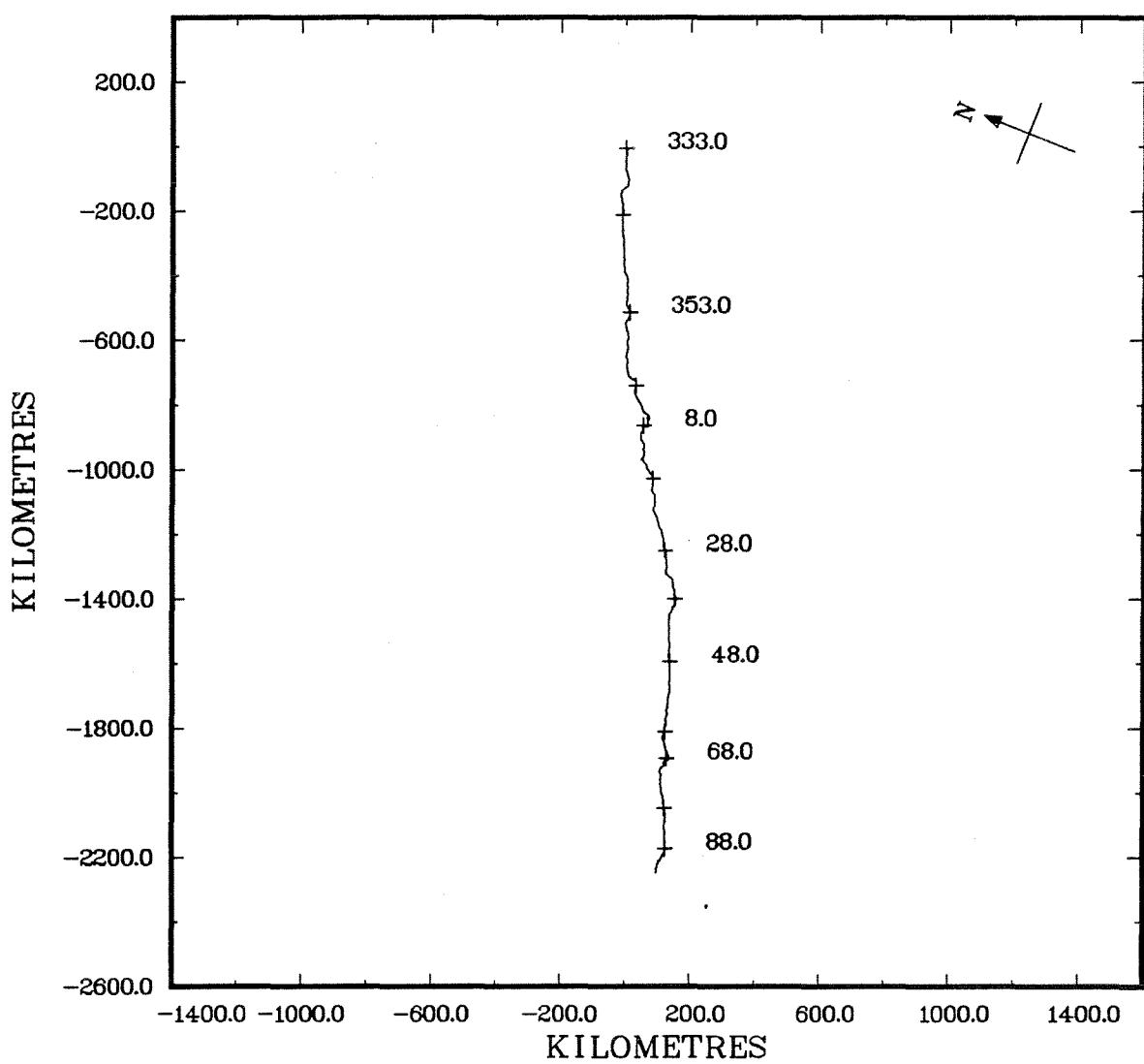
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5002
LATITUDE 44 18.86 N
LONGITUDE 62 56.28 W
WATER DEPTH (M) 170
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.83
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.236	.026	.743	.108	6136
U(158° T) COMP VEL(M/S)	.009	-.475	.290	.094	6136
V(68° T) COMP VEL(M/S)	-.204	-.742	.504	.130	6136
TEMPERATURE(DEG.C.)	3.070	-.188	7.454	1.247	6136
SALINITY	32.561	31.353	34.212	.381	6136
SIGMA-T(KG/M**3)	25.922	24.833	26.917	.254	6136

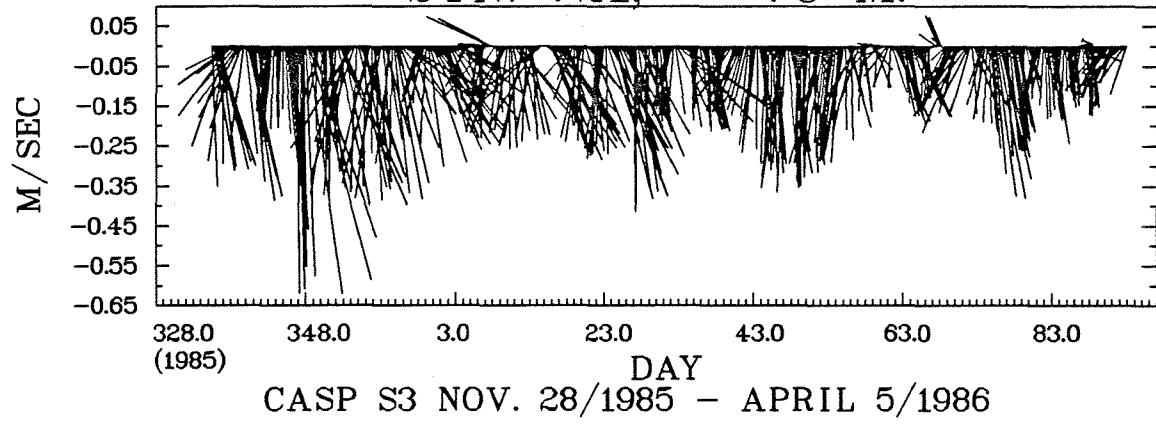
COMMENTS

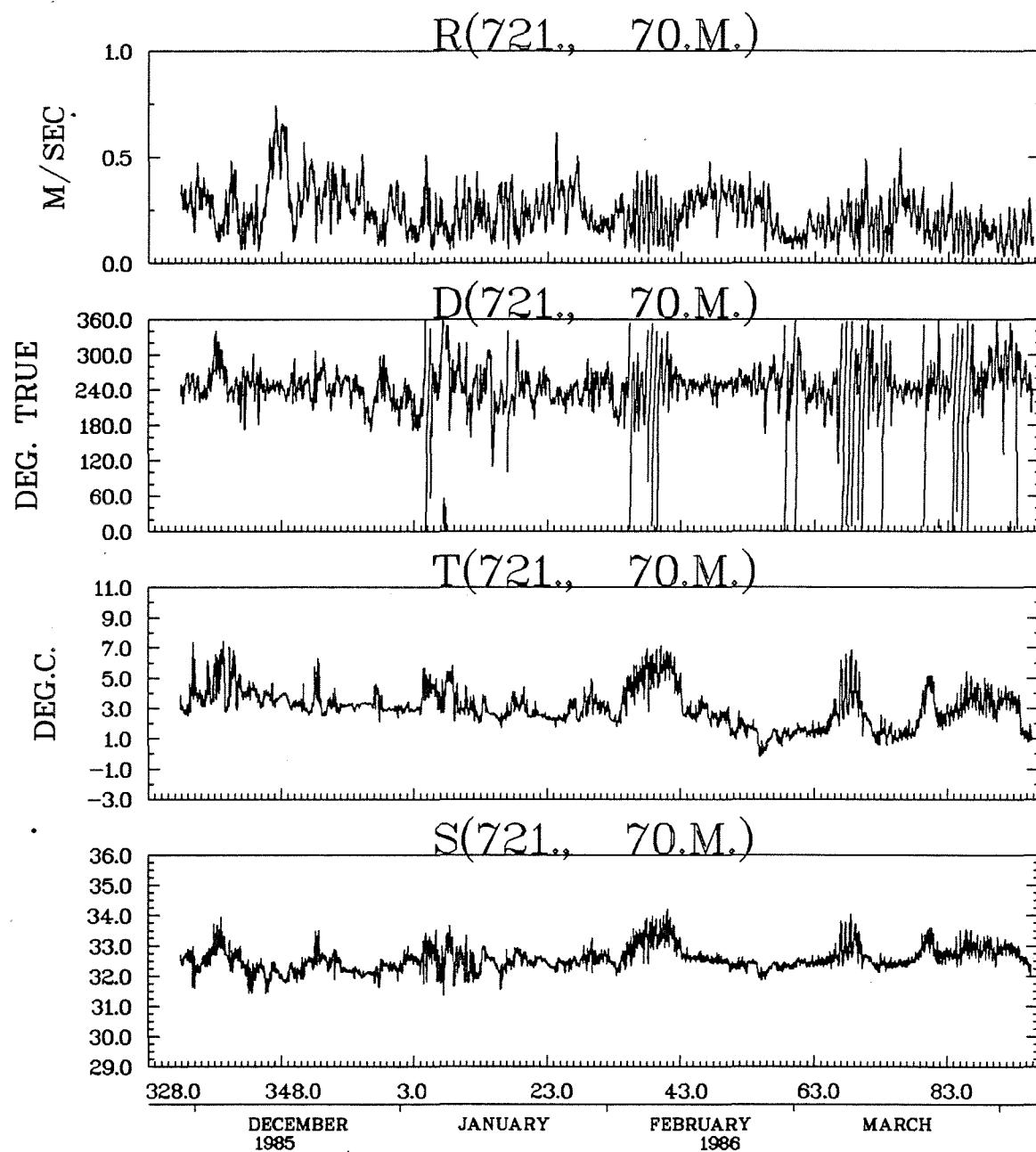
TEMPERATURE AND SALINITY ARE NOISY

STN. 721, 70 M.

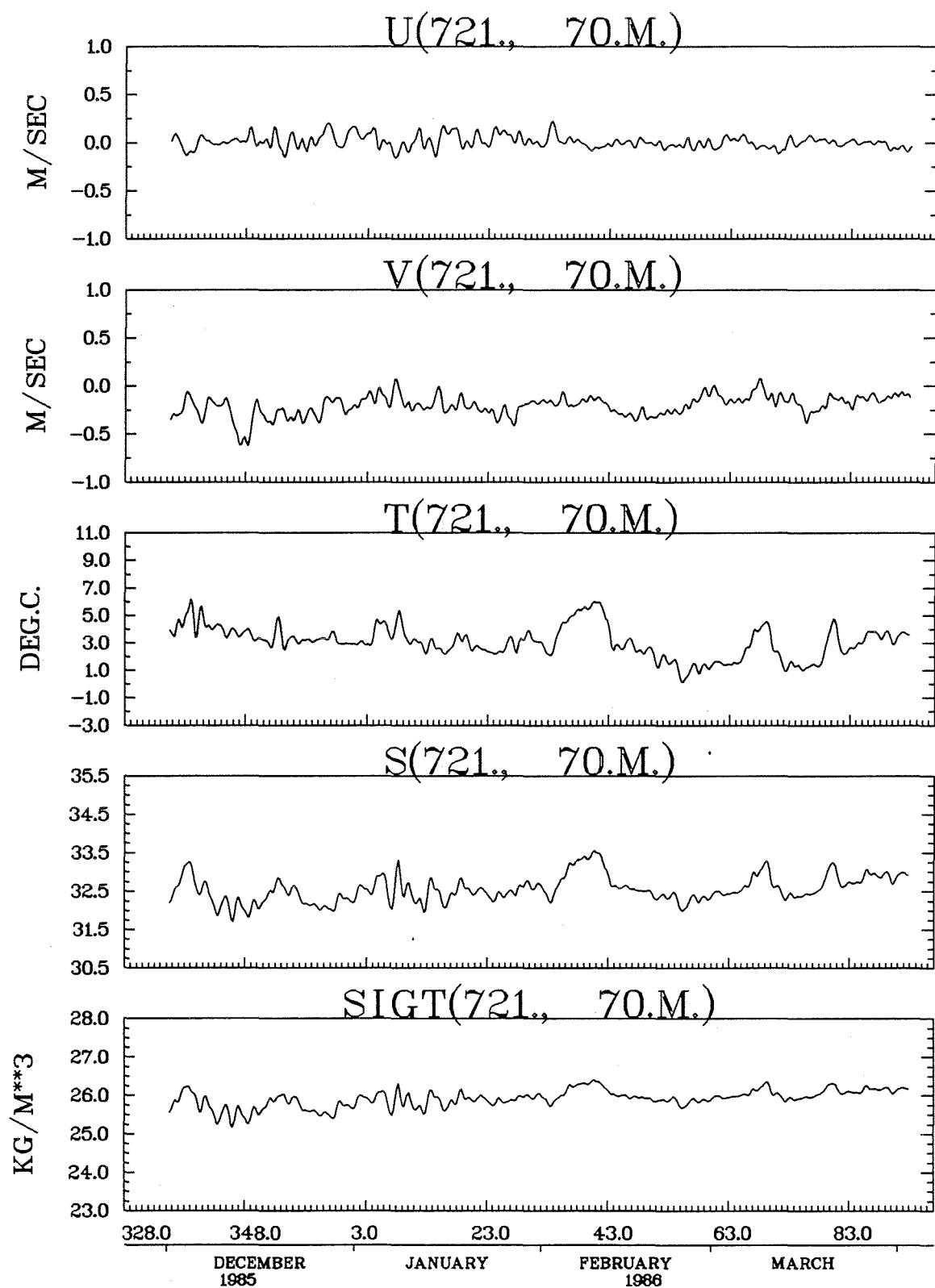


STN. 721, 70 M.

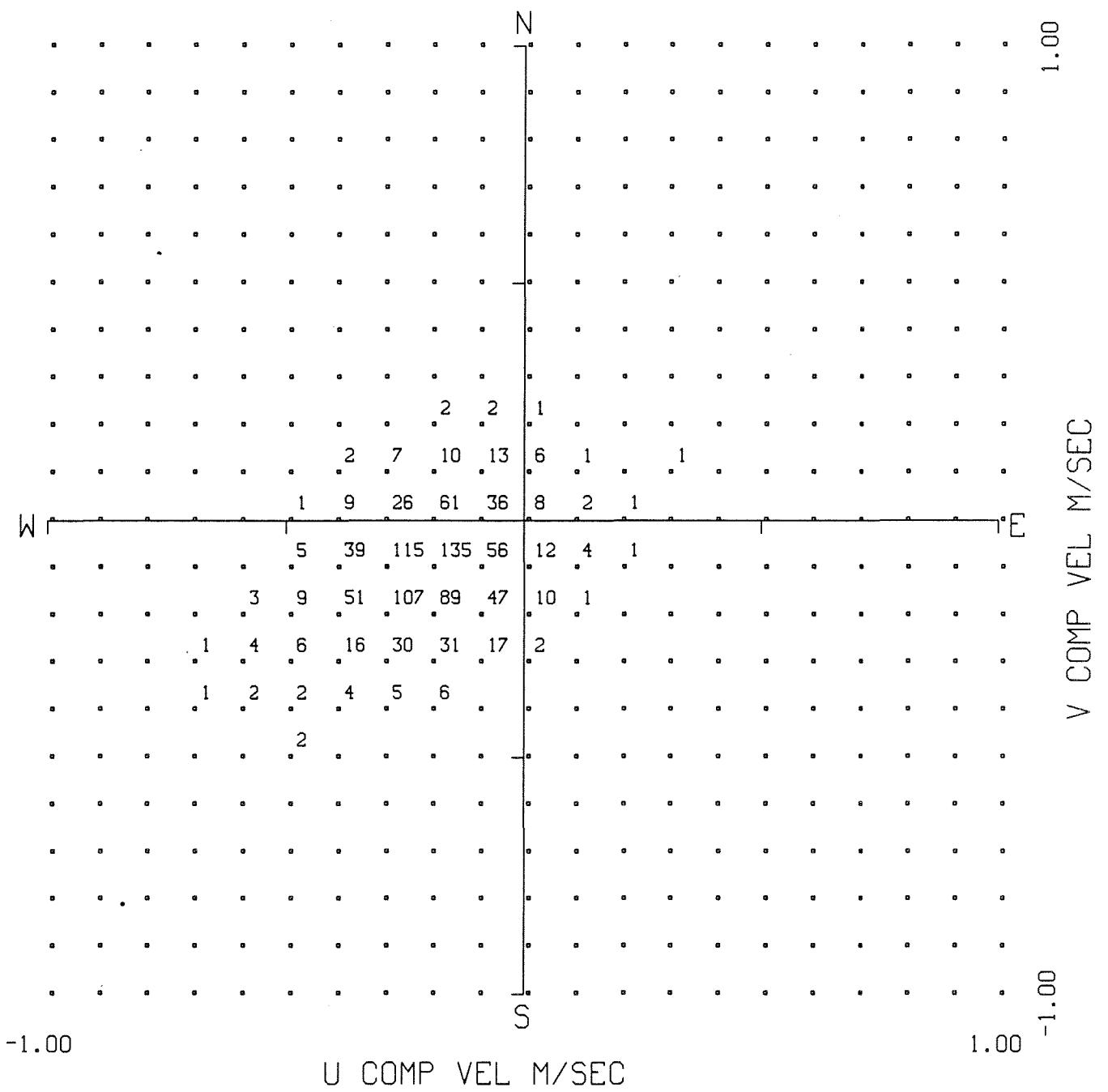


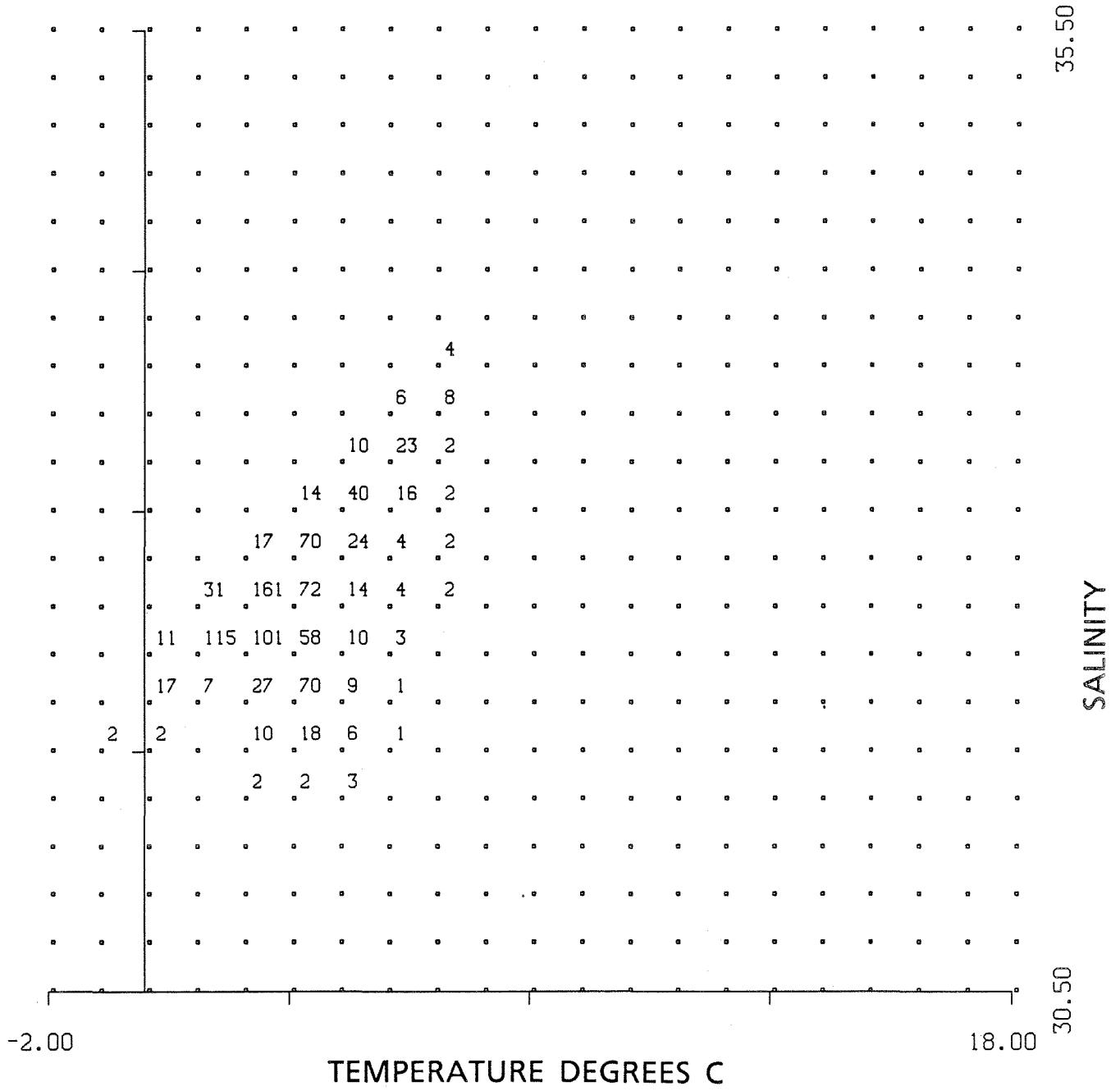


CASP S3 NOV. 28/1985 – APRIL 5/1986



CASP S3 NOV. 28/1985 – APRIL 5/1986





TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 721 DEPTH 70 M.
START TIME 28/11/ 85 20:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 721
DEPTH (M) 110

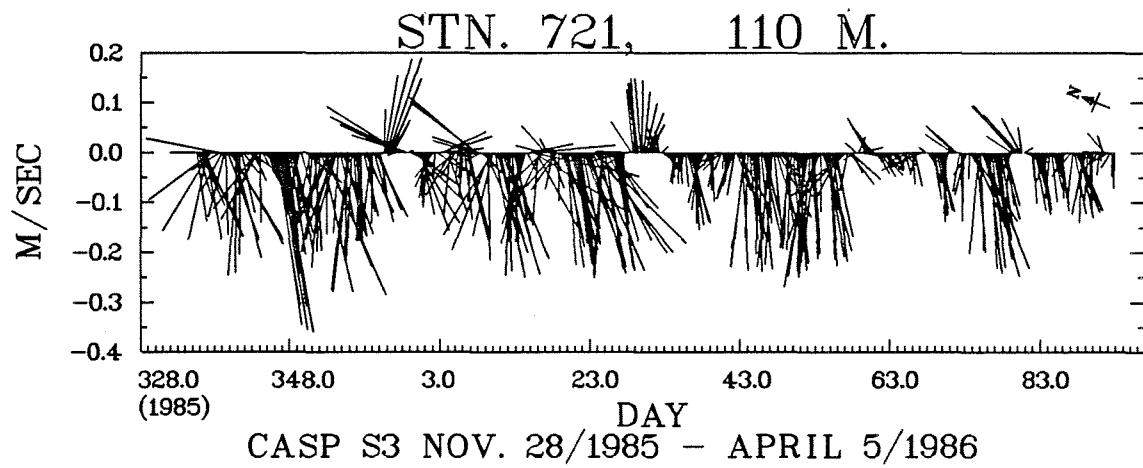
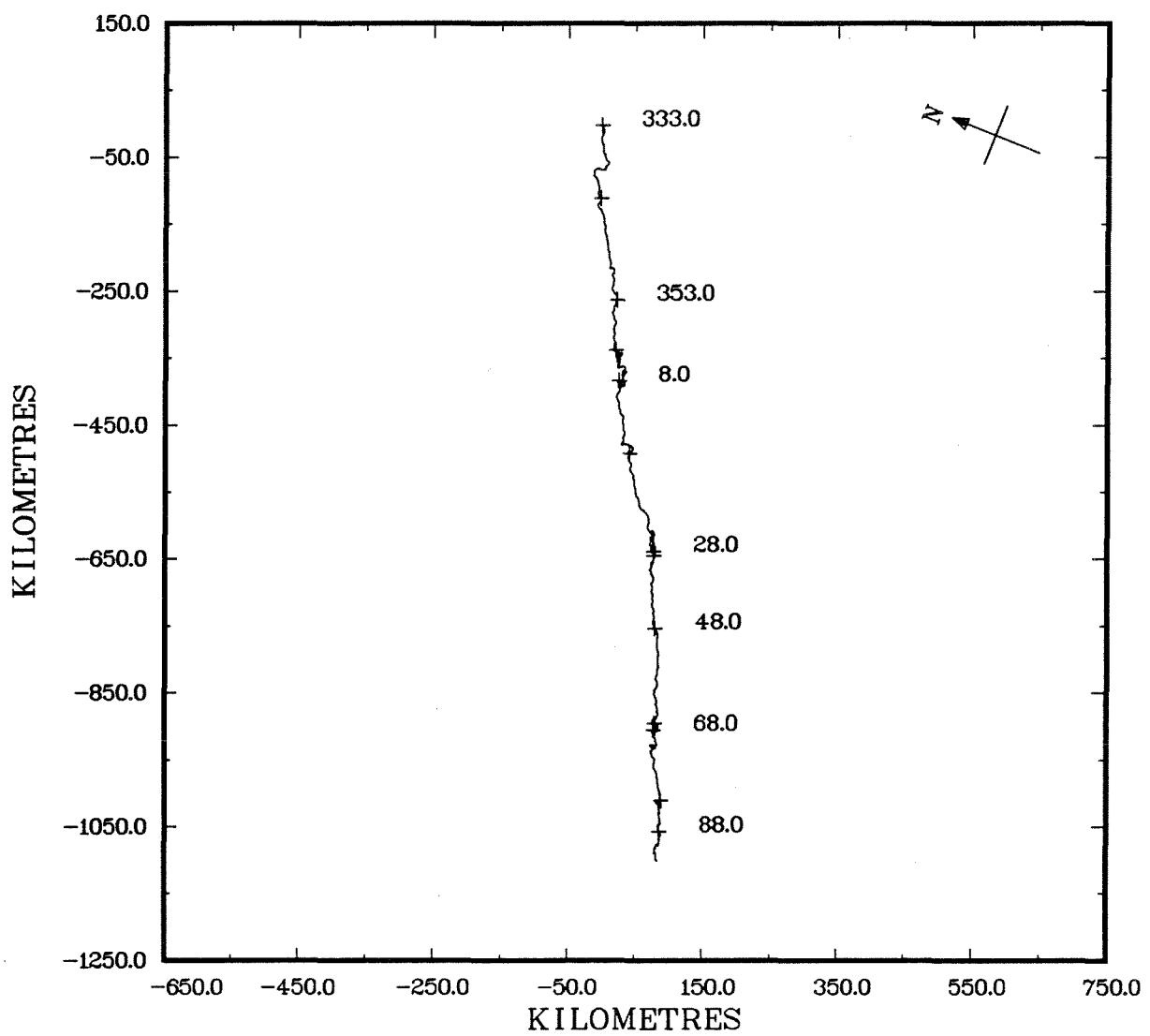
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 7124
LATITUDE 44 18.86 N
LONGITUDE 62 56.28 W
WATER DEPTH (M) 170
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.83
SAMPLE INTERVAL 30 MINUTES

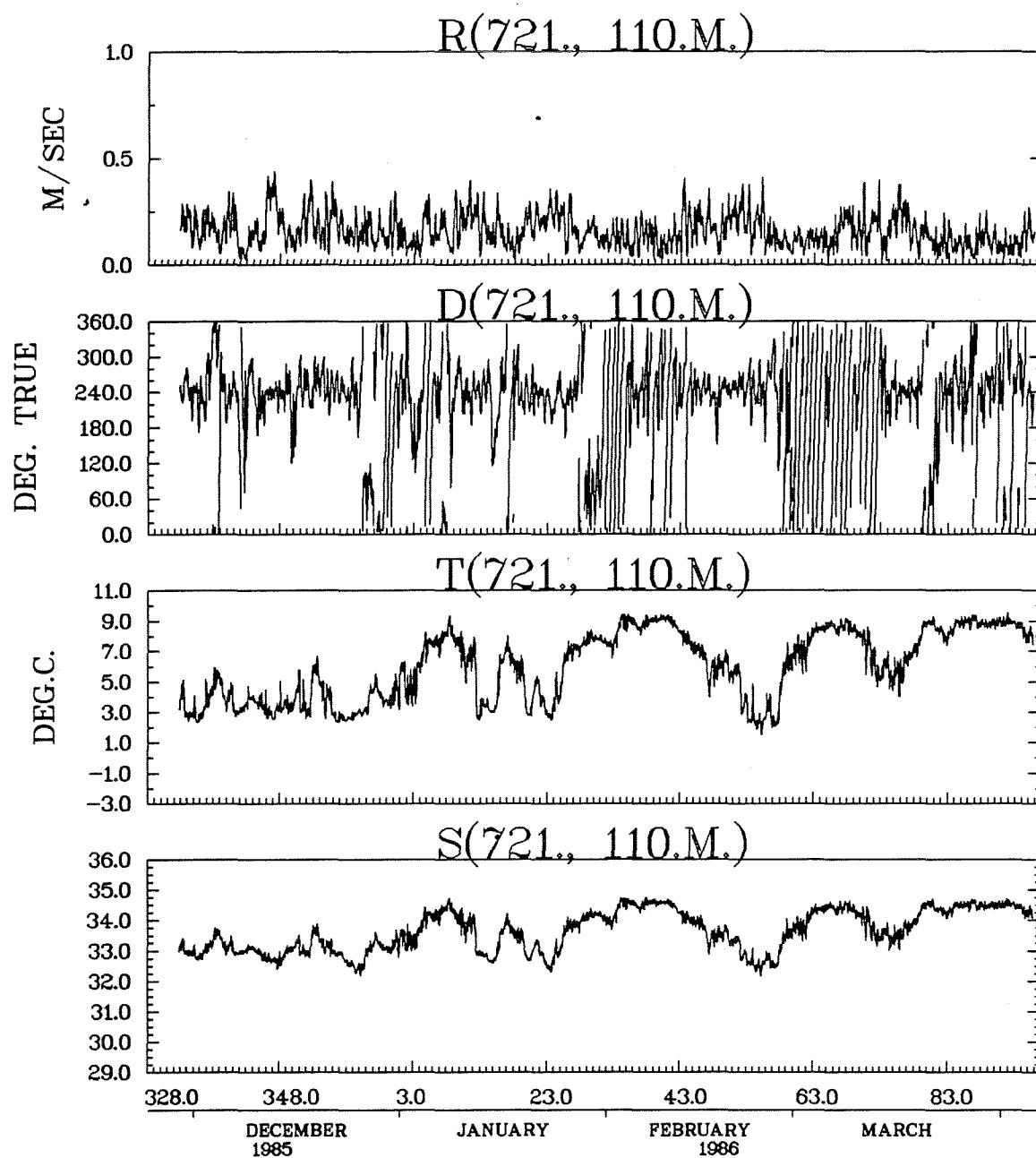
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.158	.018	.439	.075	6136
U(158° T) COMP VEL(M/S)	.008	-.286	.314	.080	6136
V(68° T) COMP VEL(M/S)	-.100	-.429	.303	.119	6136
TEMPERATURE(DEG.C.)	6.026	1.487	9.501	2.263	6136
SALINITY	33.639	32.169	34.740	.671	6136
SIGMA-T(KG/M**3)	26.441	25.646	26.873	.261	6136

COMMENTS

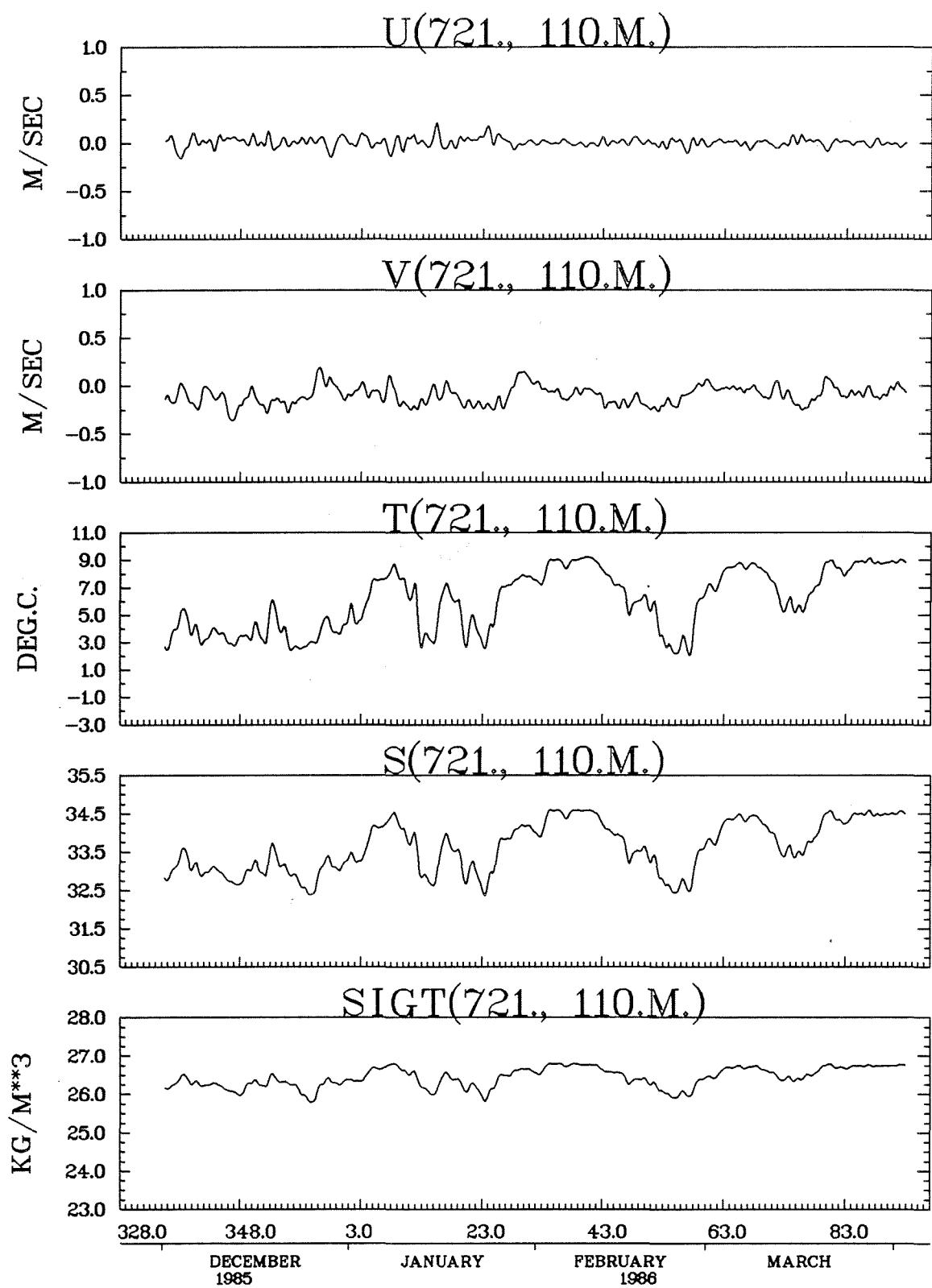
EXTRA CYCLE AT START OF RECORD
START TIME MOVED BACK 1/2 HOUR

STN. 721, 110 M.

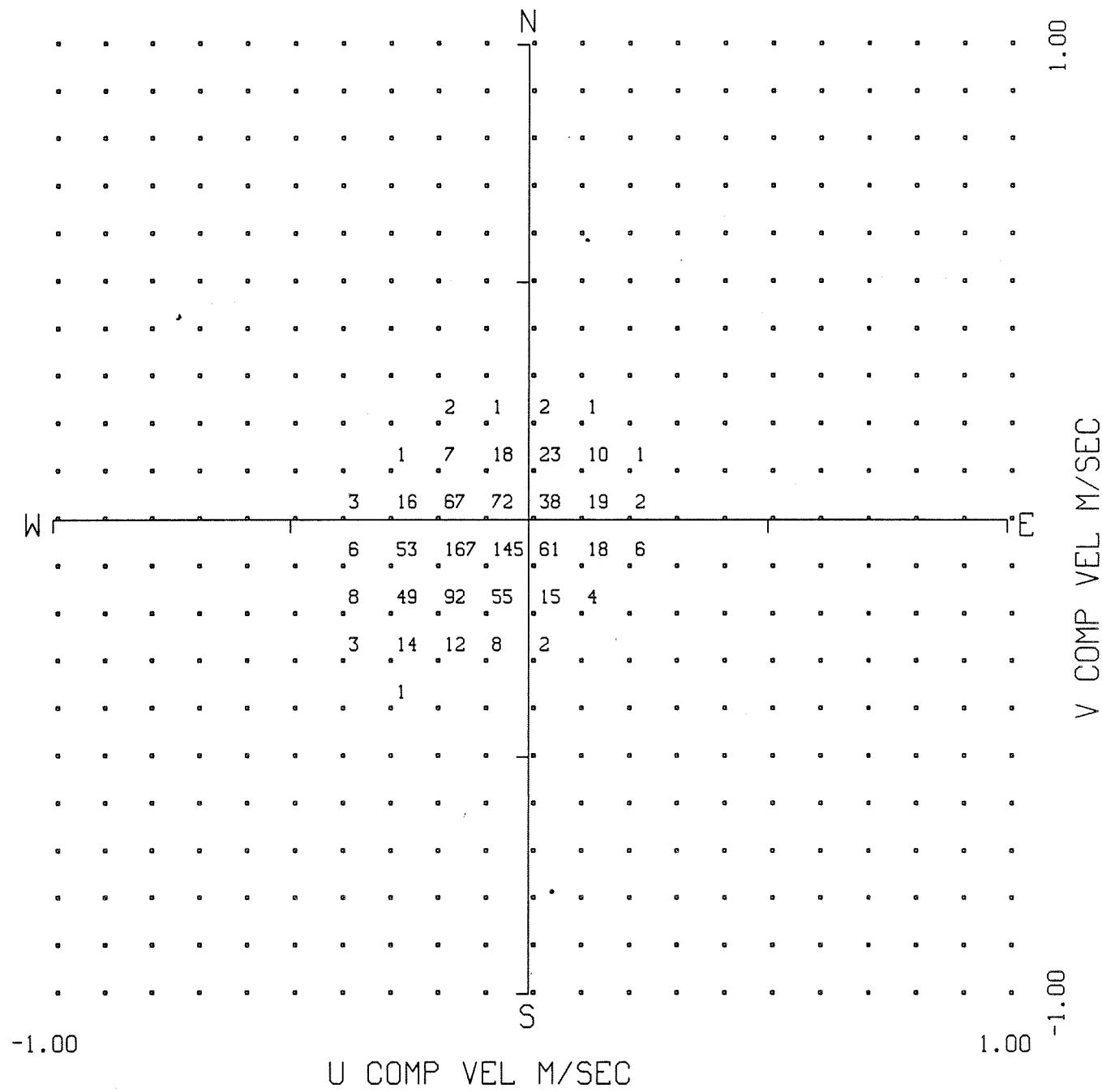




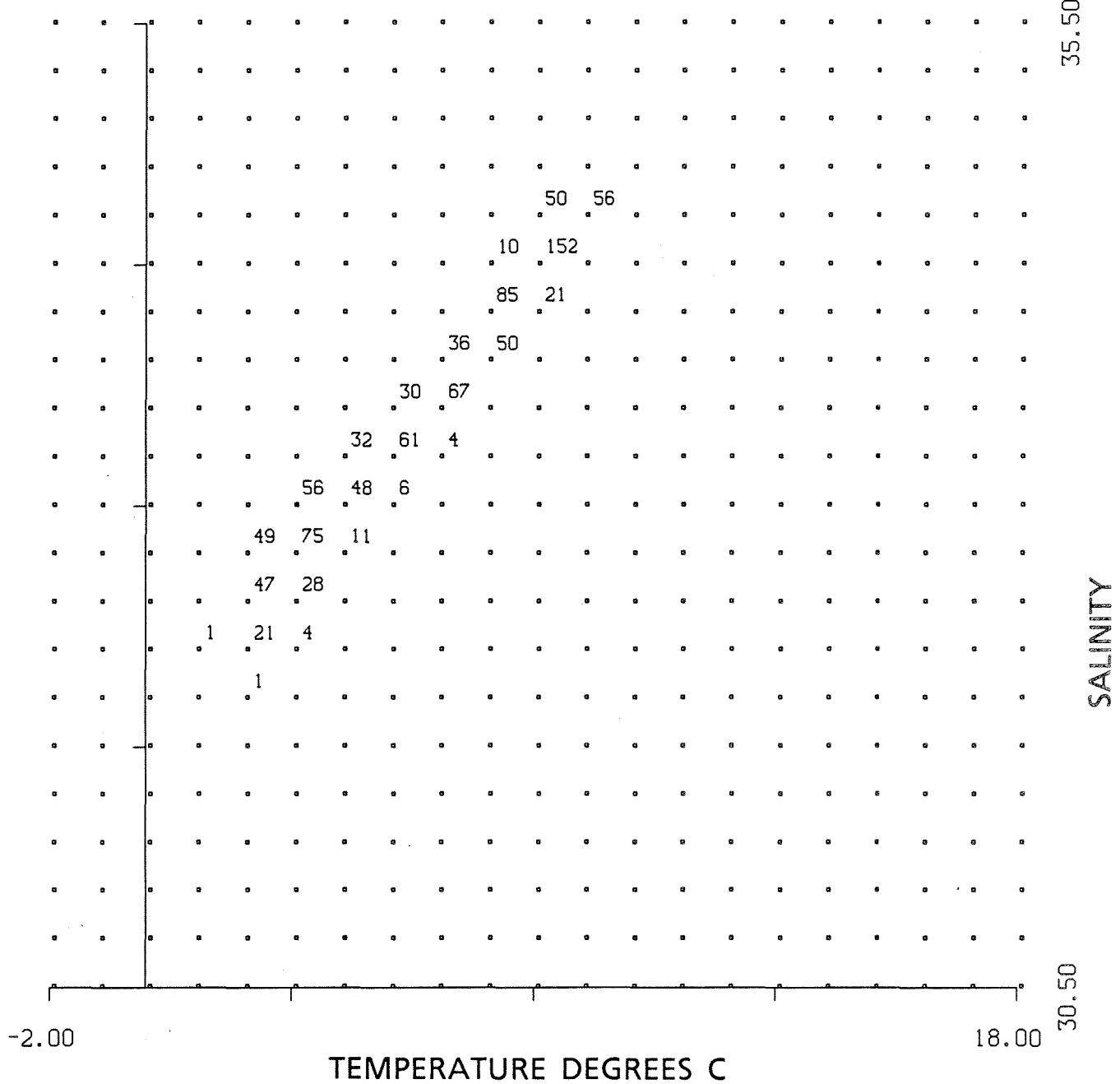
CASP S3 NOV. 28/1985 – APRIL 5/1986



CASP S3 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 721 DEPTH 110 M.
 START TIME 28/11/ 85 21: 0: .0 GMT
 FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 721 DEPTH 110 M.
START TIME 28/11/ 85 21: 0: .0 GMT
FREQUENCY UNIT 0.1%

MOORING 721
DEPTH (M) 165

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 181
LATITUDE 44 19.01 N
LONGITUDE 62 56.13 W
WATER DEPTH (M) 165
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.83
SAMPLE INTERVAL 30 MINUTES

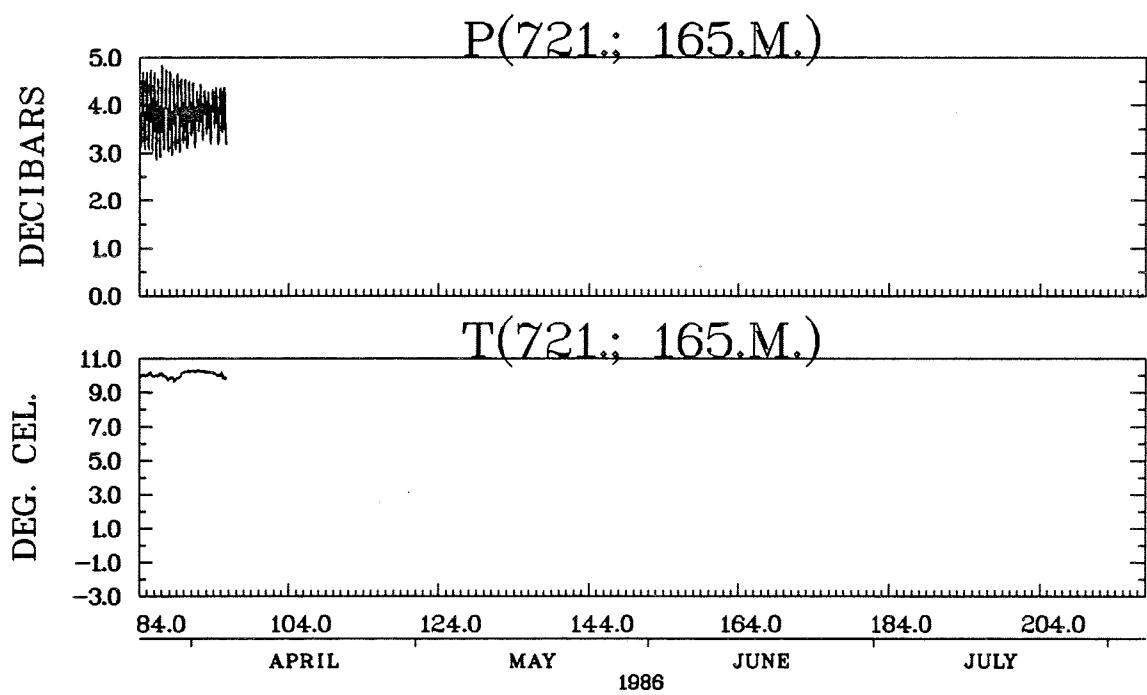
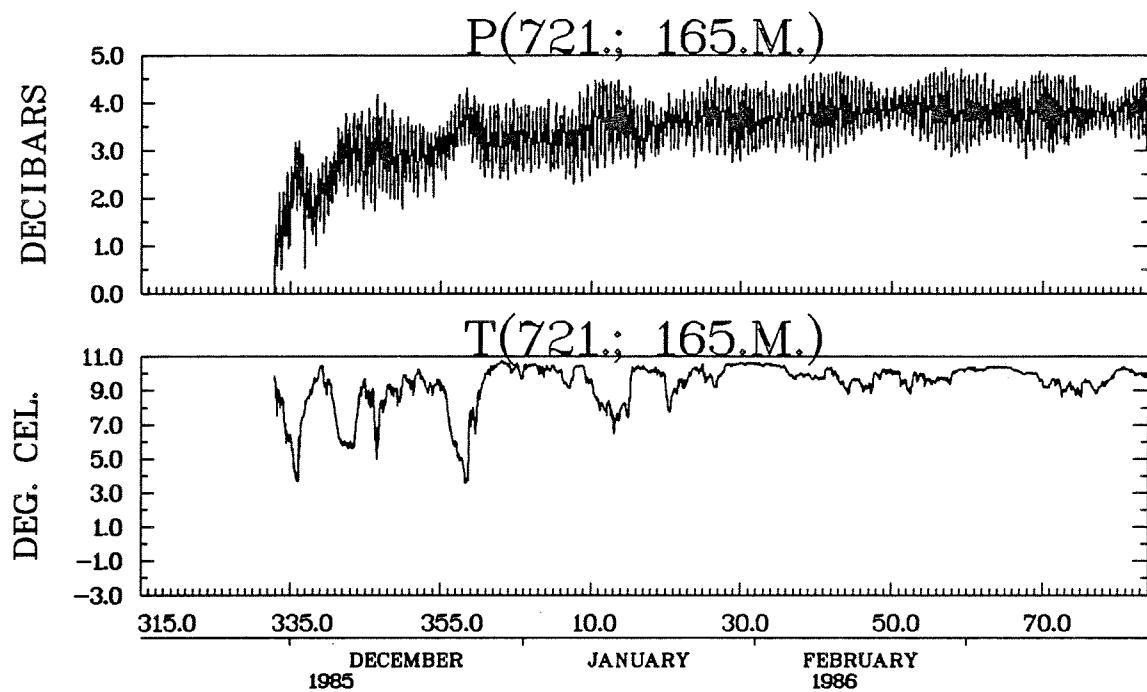
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	9.439	3.570	10.720	1.239	6136
PRESSURE(DECIBARS)	3.484	.000	4.840	.675	6136

COMMENTS

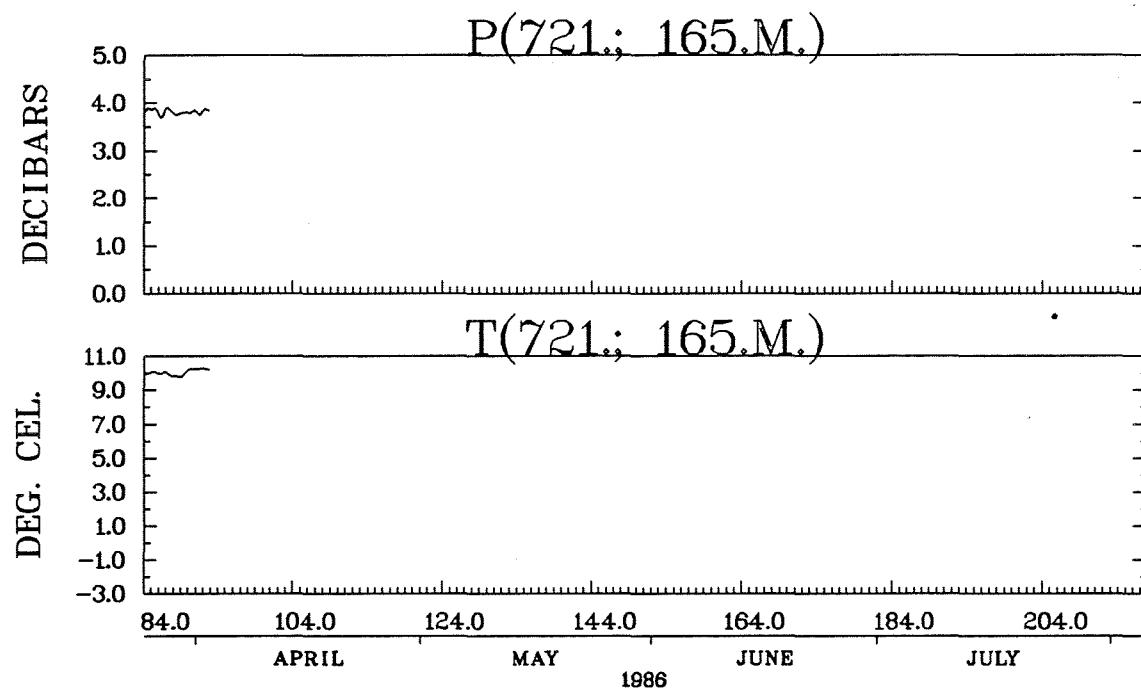
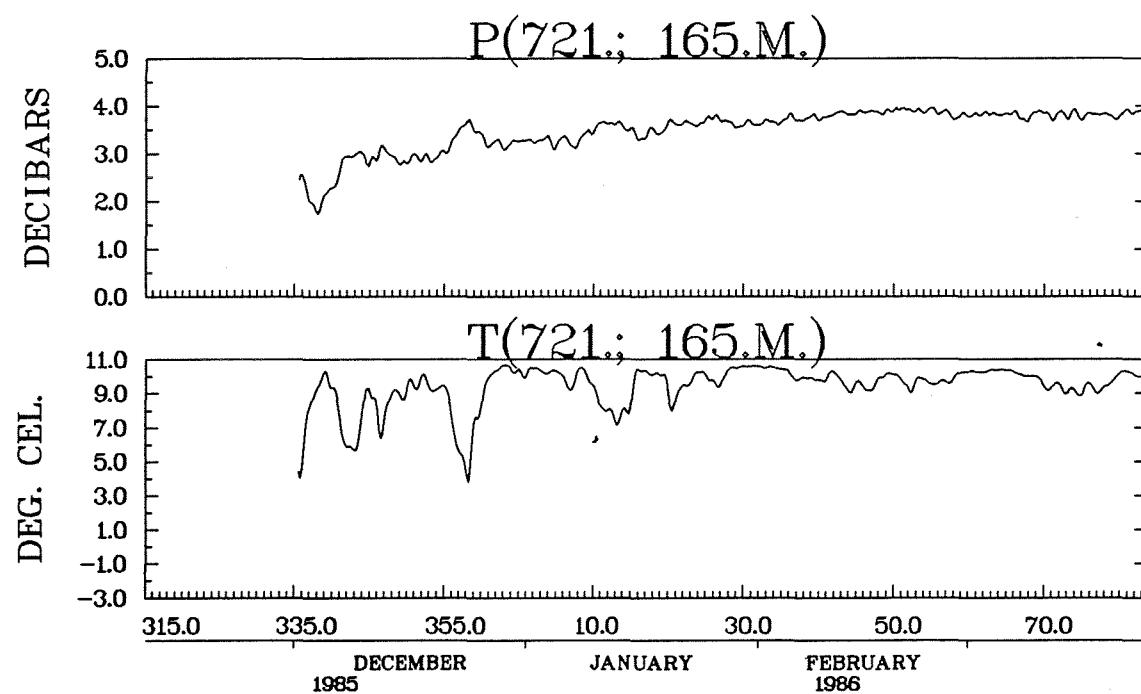
HEAVY POUNDING REQUIRED TO ASSEMBLE ANCHOR AFTER TIDE GAUGE INSTALLED
THE ZO FOR THE 29-DAY ANALYSIS CHANGES OVER THE WHOLE RECORD
WHEN IT SHOULD REMAIN MAINLY STEADY. THE ZO VALUES ARE
2.768 3.427 3.776 3.819

THE AMPLITUDE VARIES SOME AT THE BEGINNING OF THE RECORD
THIS AGAIN SHOULD HAVE BEEN VERY STEADY

THE PHASES ARE VERY STEADY JUST AS THEY SHOULD BE



CASP S3 NOV. 28/1985 – APRIL 5/1986



CASP S3 NOV. 28/1985 – APRIL 5/1986

HISTOGRAM OF T(721.; 165.M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

2.00	2.50	0	0.0
2.50	3.00	0	0.0
3.00	3.50	0	0.0
3.50	4.00	34	.6 **
4.00	4.50	23	.4 **
4.50	5.00	22	.4 *
5.00	5.50	39	.6 **
5.50	6.00	120	2.0 *****
6.00	6.50	93	1.5 *****
6.50	7.00	61	1.0 ***
7.00	7.50	91	1.5 *****
7.50	8.00	168	2.7 *****
8.00	8.50	224	3.7 *****
8.50	9.00	361	5.9 *****
9.00	9.50	856	14.0 *****
9.50	10.00	1511	24.6 *****
10.00	10.50	2120	34.6 *****
10.50	11.00	413	6.7 *****
11.00	11.50	0	0.0
11.50	12.00	0	0.0

TOTAL NO. OF SAMPLES 6136

OUTSIDE RANGE 0

MOORING 722
DEPTH (M) 11

INSTRUMENT TYPE	AANDERAA RCM
SERIAL NUMBER	3307
LATITUDE	44 09.38 N
LONGITUDE	62 51.50 W
WATER DEPTH (M)	220
MOORING DATE ; CRUISE	28/11/1985 ; 85-040
DURATION (DAYS)	0.0
SAMPLE INTERVAL	30 MINUTES

COMMENTS

THIS SECTION WAS MISSING WHEN THE MOORING WAS RECOVERED.

MOORING 722
DEPTH (M) 12, 22, 32, 42, 52, 62
72, 82, 92, 102, 112

INSTRUMENT TYPE	AANDERAA RTC
SERIAL NUMBER	790
LATITUDE	44 09.38 N
LONGITUDE	62 51.50 W
WATER DEPTH (M)	220
MOORING DATE ; CRUISE	28/11/1985 ; 85-040
DURATION (DAYS)	0.0
SAMPLE INTERVAL	60 MINUTES

COMMENTS

THIS SECTION WAS MISSING WHEN THE MOORING WAS RECOVERED.

MOORING 722
DEPTH (M) 70

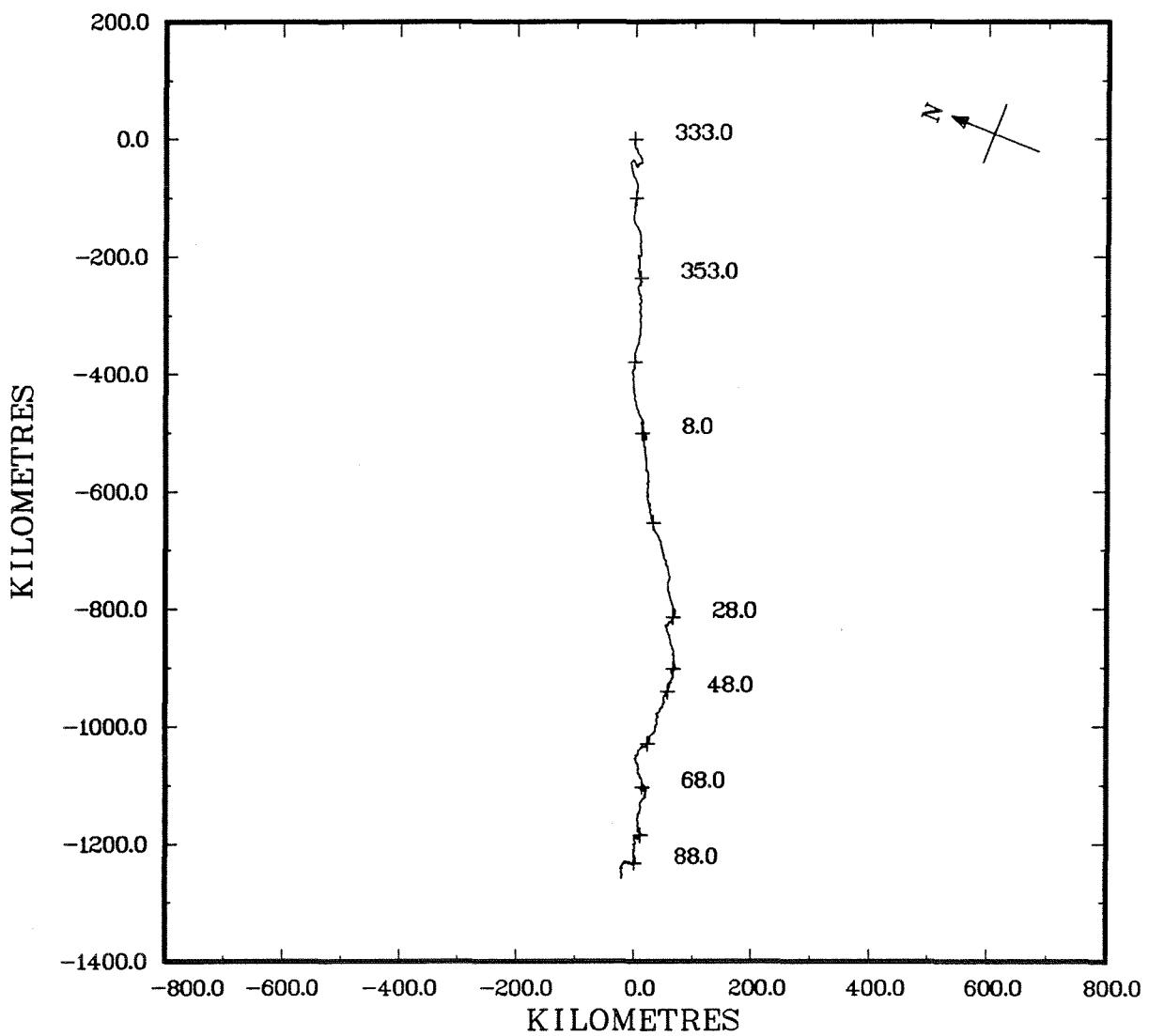
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 7524
LATITUDE 44 9.51 N
LONGITUDE 62 51.47 W
WATER DEPTH (M) 220
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.69
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.168	.015	.425	.070	6129
U(158° T) COMP VEL(M/S)	-.002	-.287	.369	.088	6129
V(68° T) COMP VEL(M/S)	-.114	-.424	.295	.111	6129
TEMPERATURE(DEG.C.)	5.523	1.531	8.652	1.467	6129
SALINITY	33.319	31.398	34.438	.446	6129
SIGMA-T(KG/M**3)	26.268	25.054	26.737	.212	6129

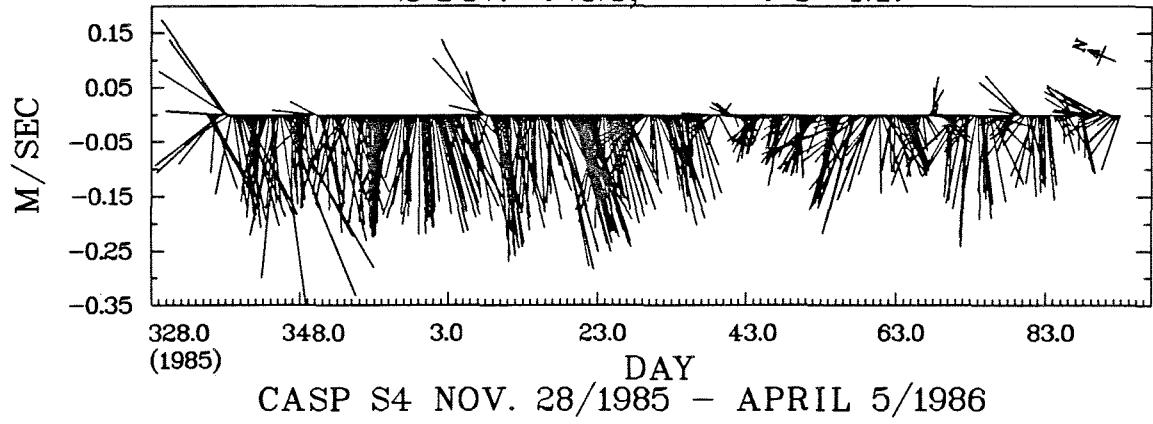
COMMENTS

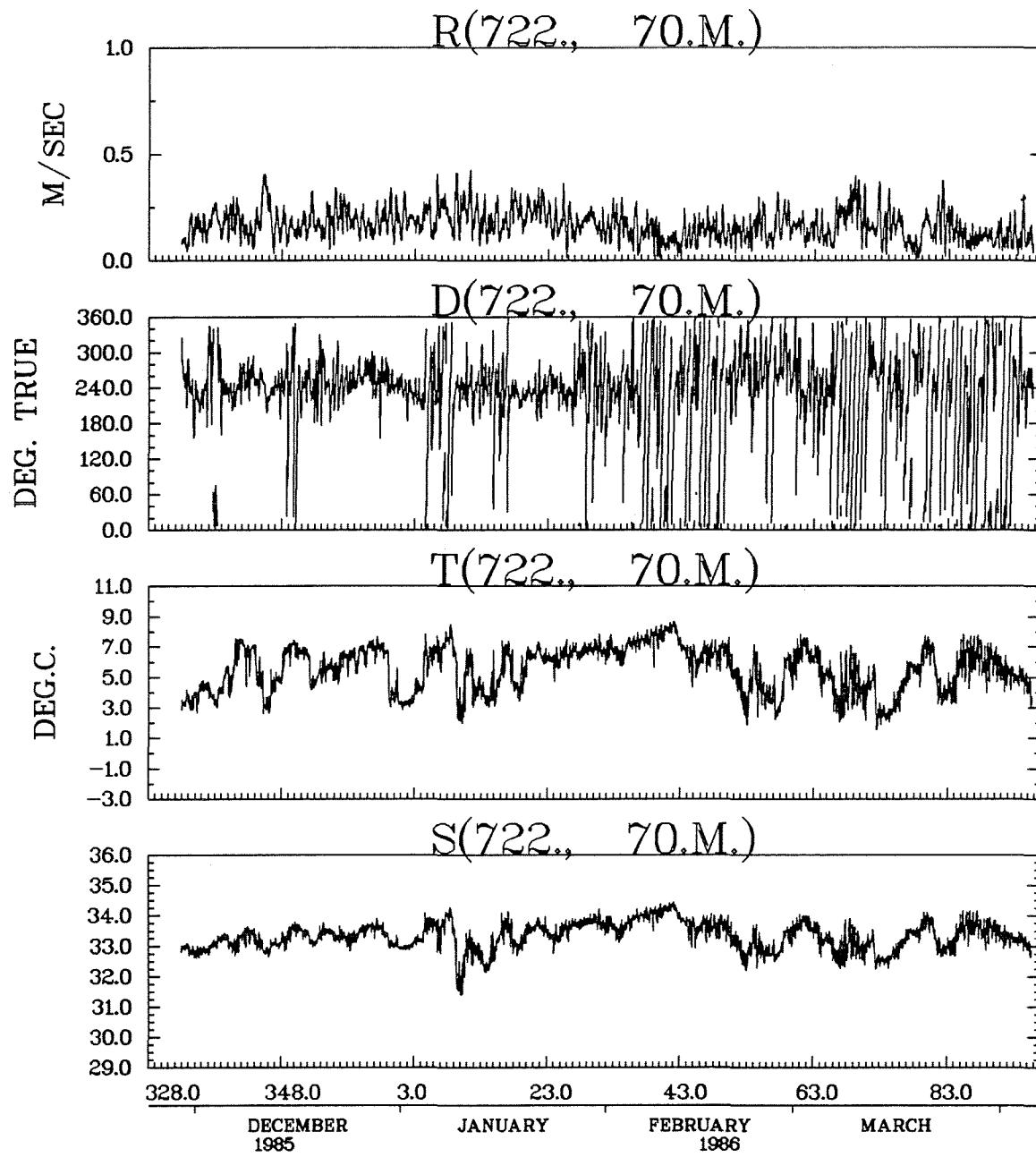
SECOND LEG OF MOORING MISSING

STN. 722, 70 M.

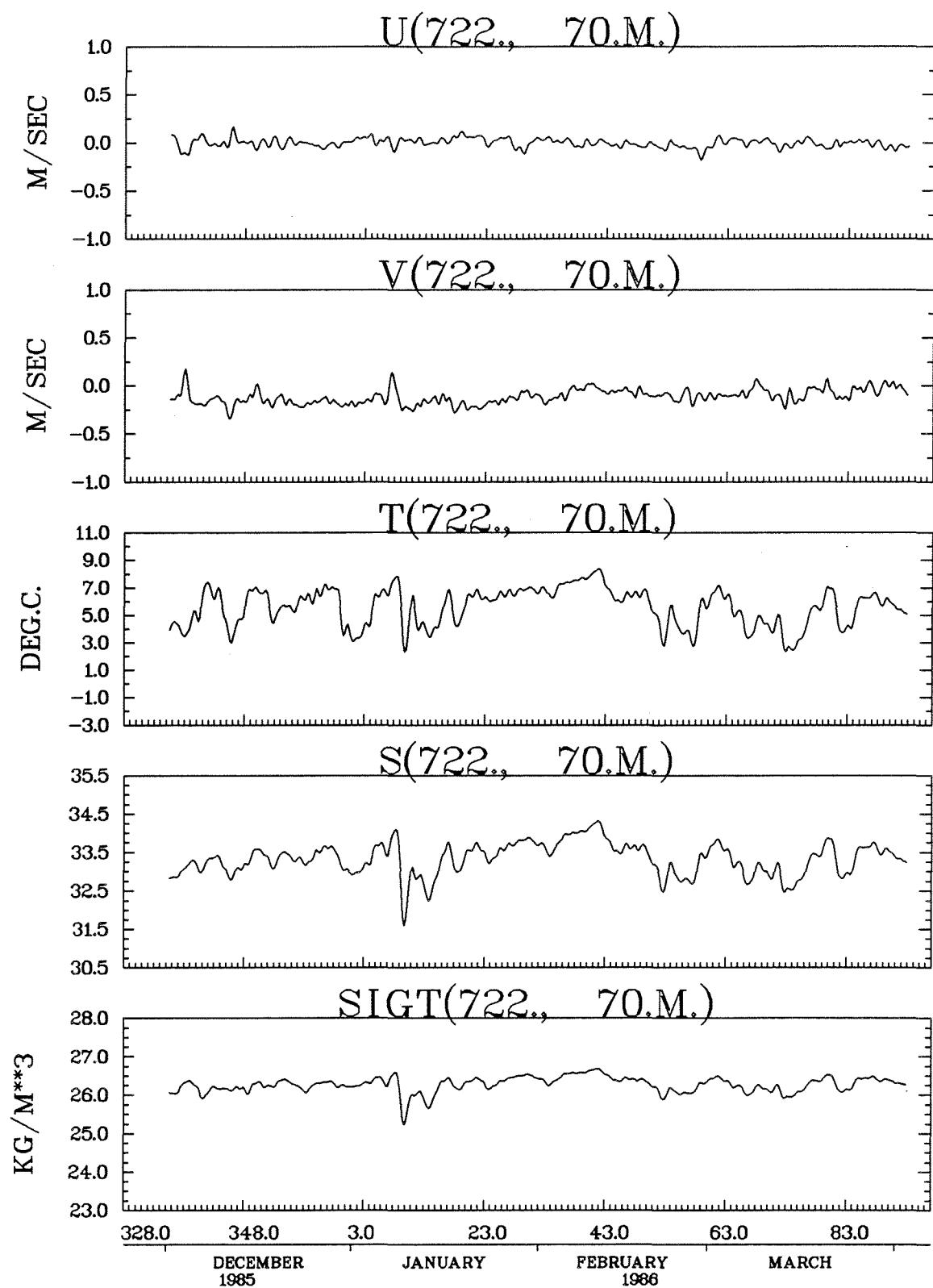


STN. 722, 70 M.

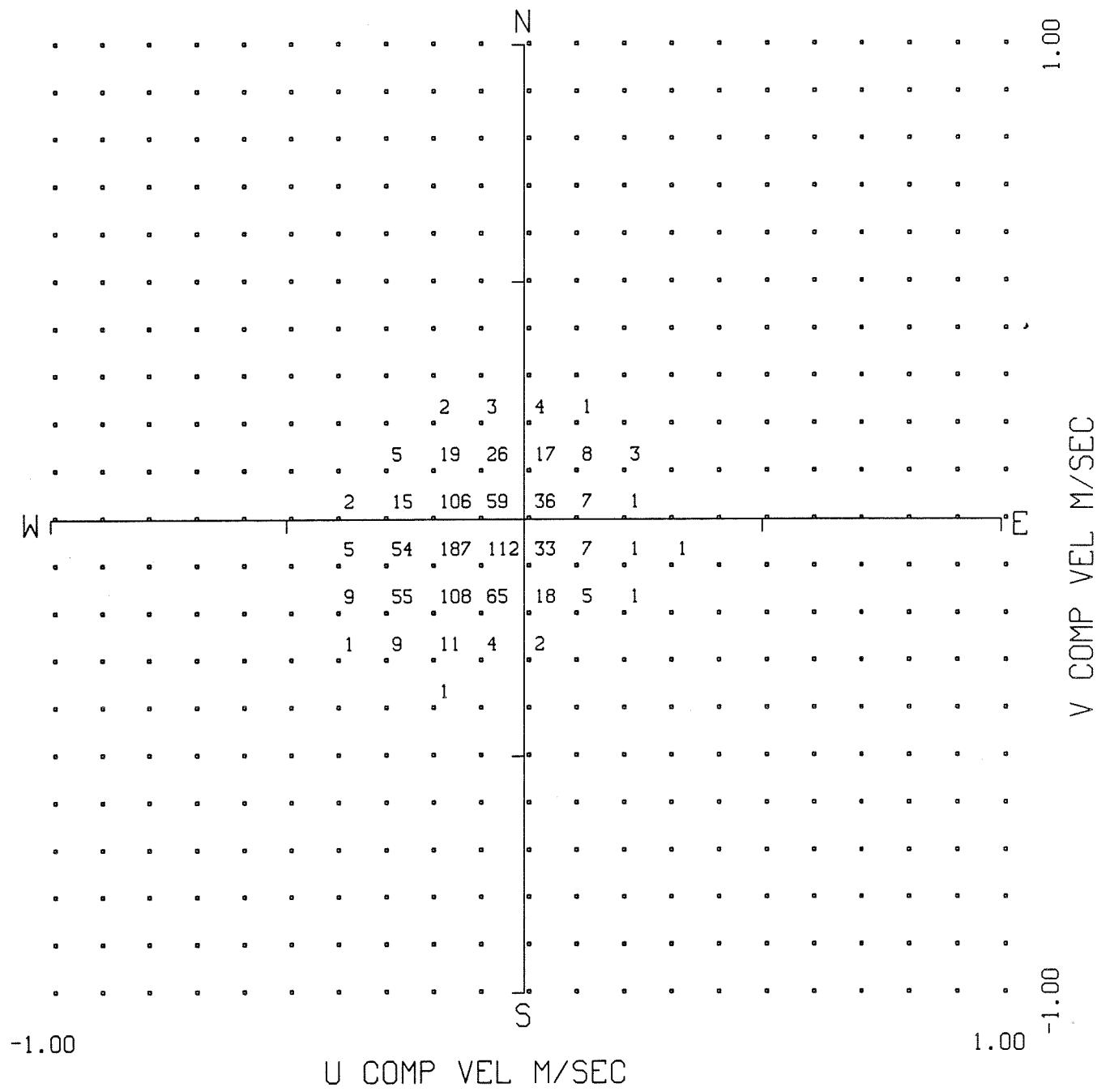




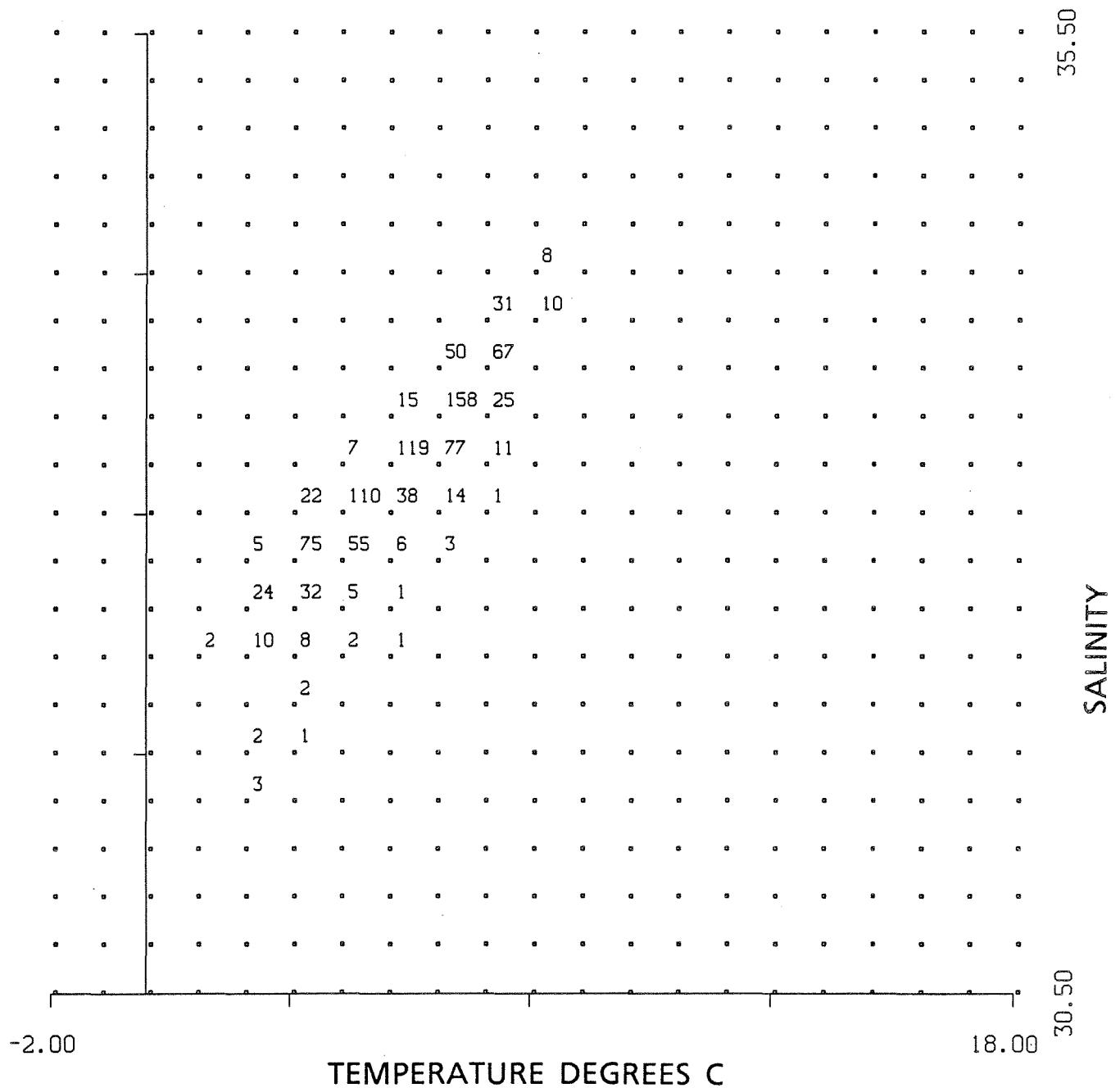
CASP S4 NOV. 28/1985 – APRIL 5/1986



CASP S4 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 722 DEPTH 70 M.
 START TIME 28/11/ 85 21:59:55.5 GMT
 FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 722 DEPTH 70 M.
 START TIME 28/11/ 85 21:59:55.5 GMT
 FREQUENCY UNIT 0.1%

MOORING 722
DEPTH (M) 110

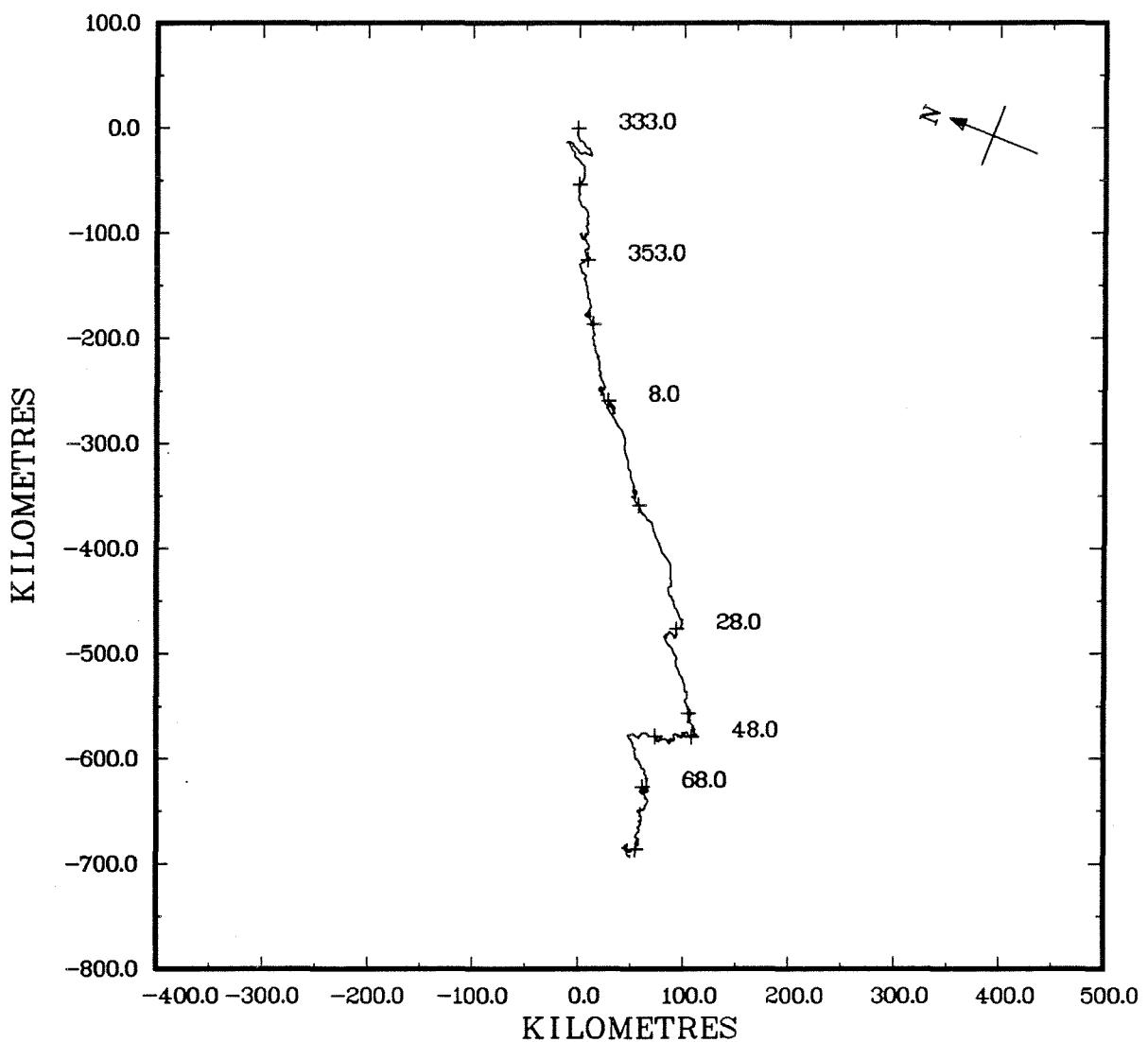
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 4406
LATITUDE 44 9.51 N
LONGITUDE 62 51.47 W
WATER DEPTH (M) 220
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 114.10
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.139	.033	.370	.054	5477
U(158° T) COMP VEL(M/S)	.005	-.280	.239	.082	5477
V(68° T) COMP VEL(M/S)	-.070	-.370	.280	.102	5477
TEMPERATURE(DEG.C.)	9.006	4.642	10.676	1.086	5477
SALINITY	34.580	33.386	35.192	.328	5477
SIGMA-T(KG/M**3)	26.782	26.403	27.005	.101	5477

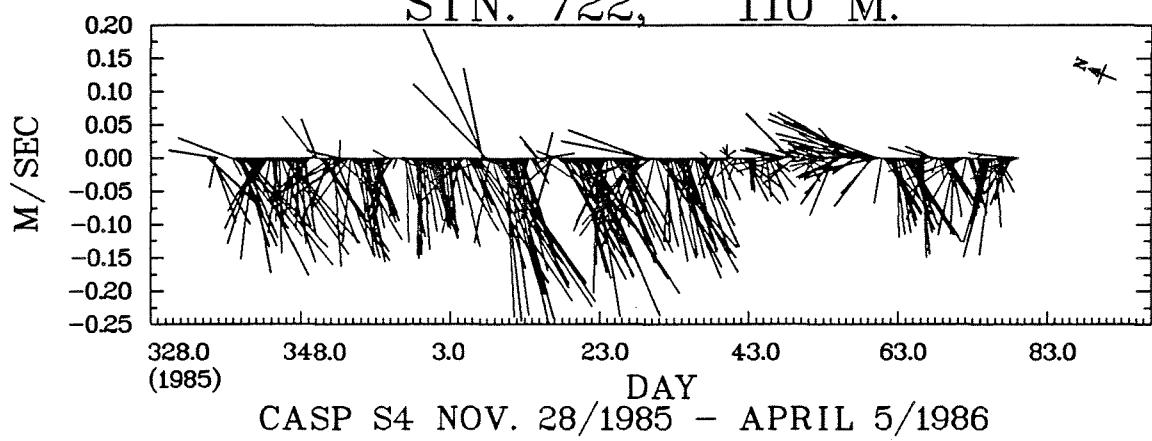
COMMENTS

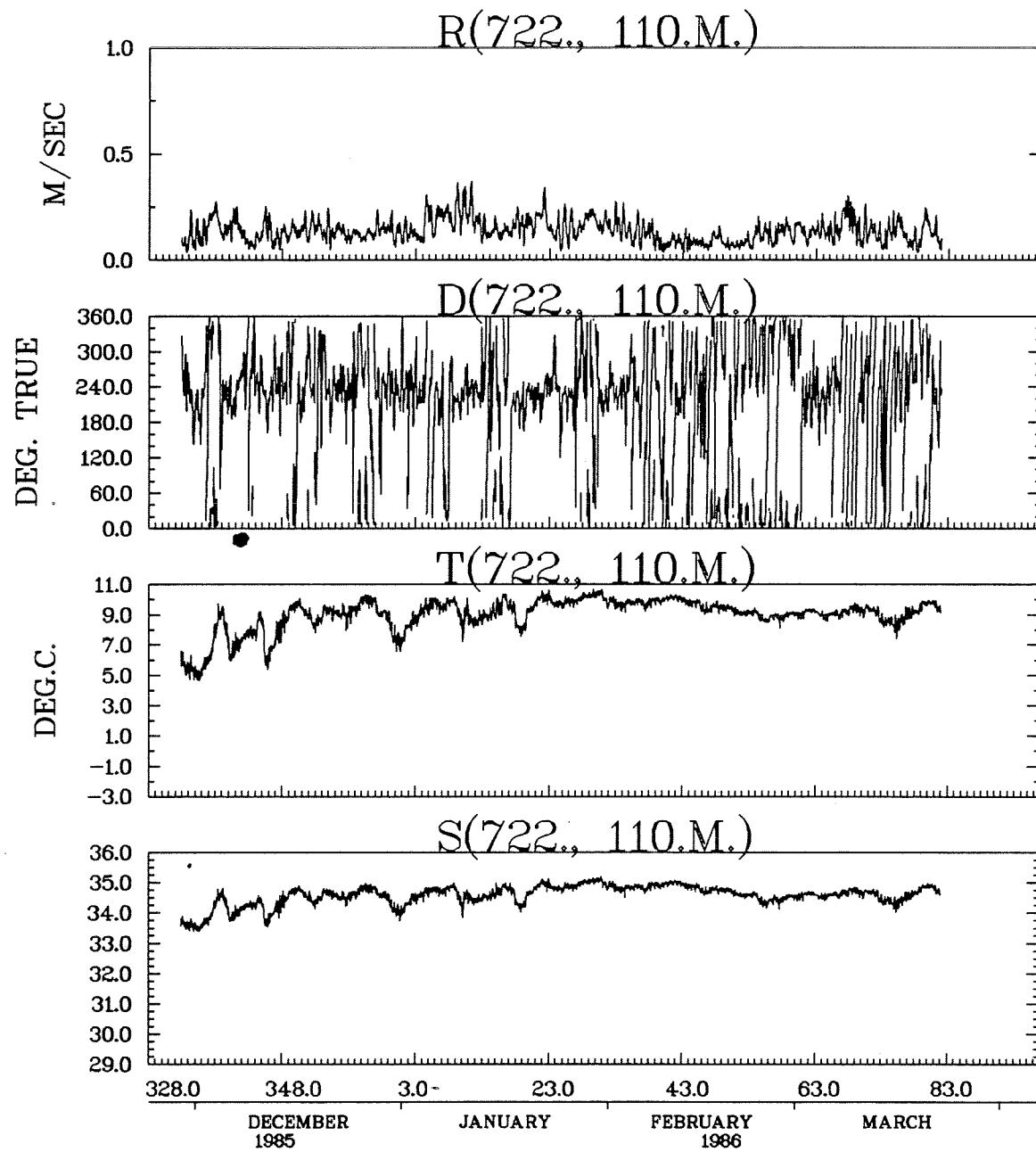
SECOND LEG OF MOORING WAS MISSING
BAD DATA FROM DAY 82'1986 TO END OF RECORD WAS DELETED
DATA NOISY FROM DAY 57'1986 TO END OF RECORD (CAUSE UNKNOWN)
AUTOEDIT RANGE CHECK RUN ON TEMPERATURE AND SALINITY

STN. 722, 110 M.

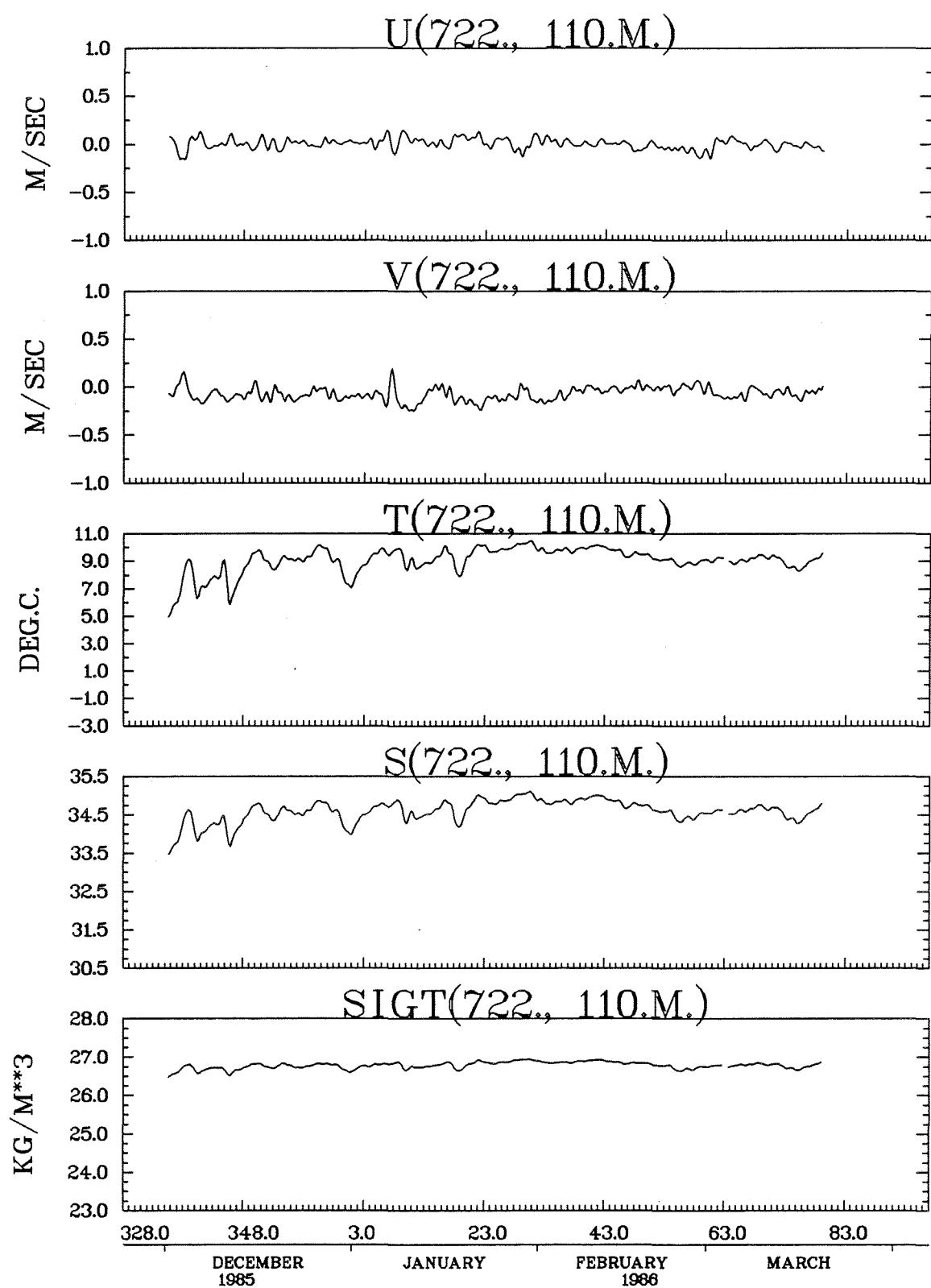


STN. 722, 110 M.

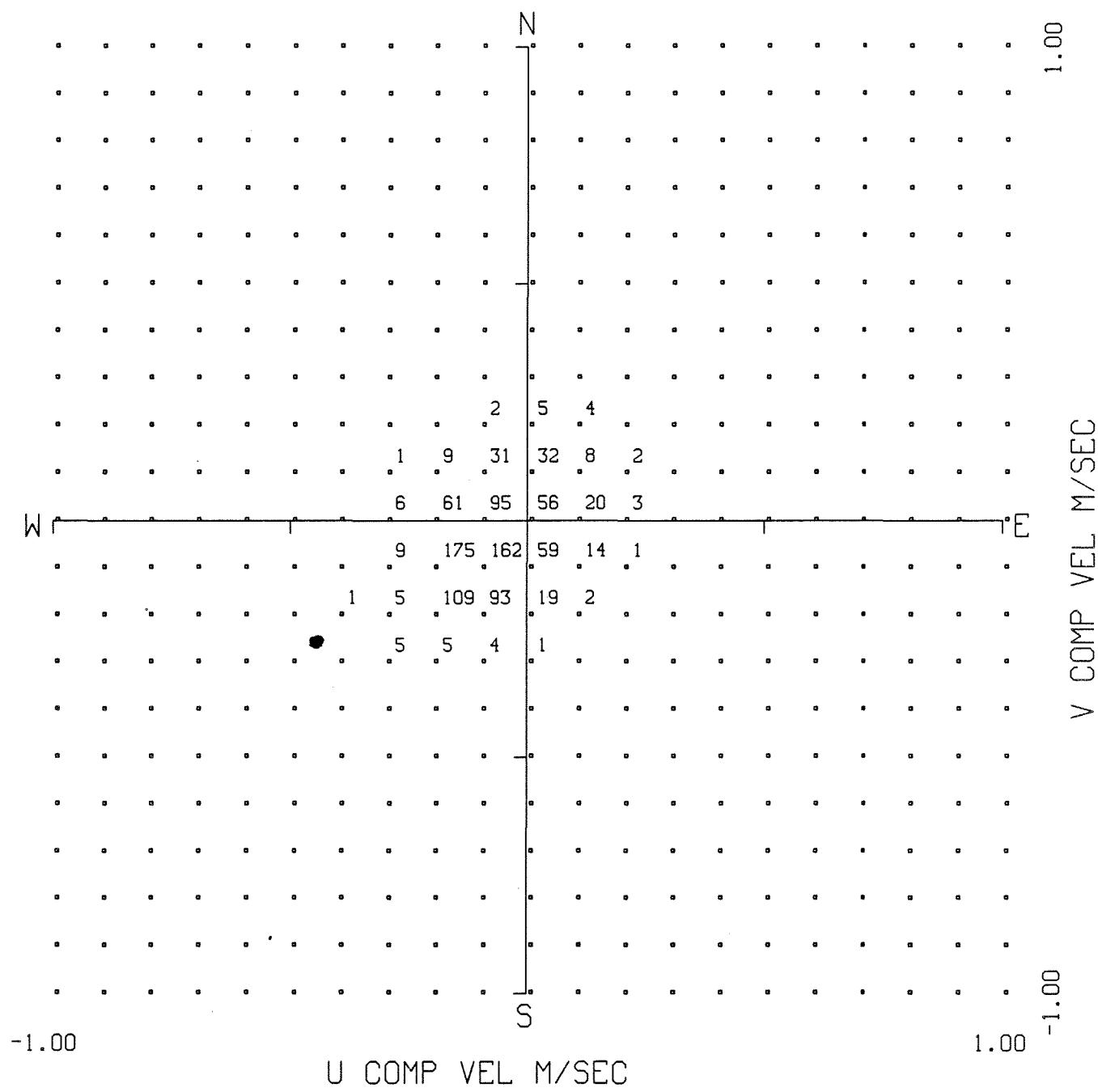




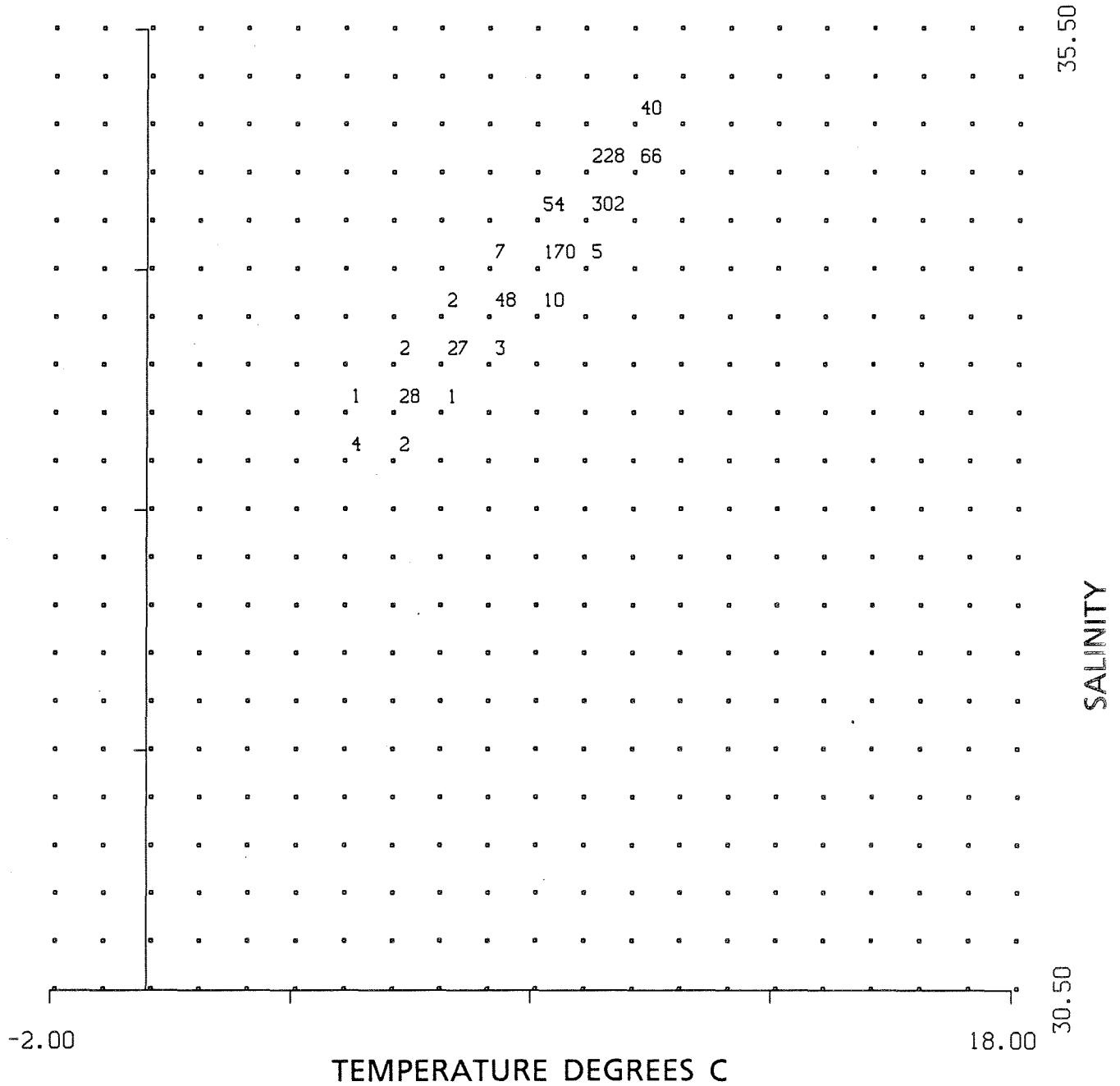
CASP S4 NOV. 28/1985 – APRIL 5/1986



CASP S4 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 722 DEPTH 110 M.
START TIME 28/11/ 85 21:59:55.5 GMT
FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 722 DEPTH 110 M.
START TIME 28/11/ 85 21:59:55.5 GMT
FREQUENCY UNIT 0.1%

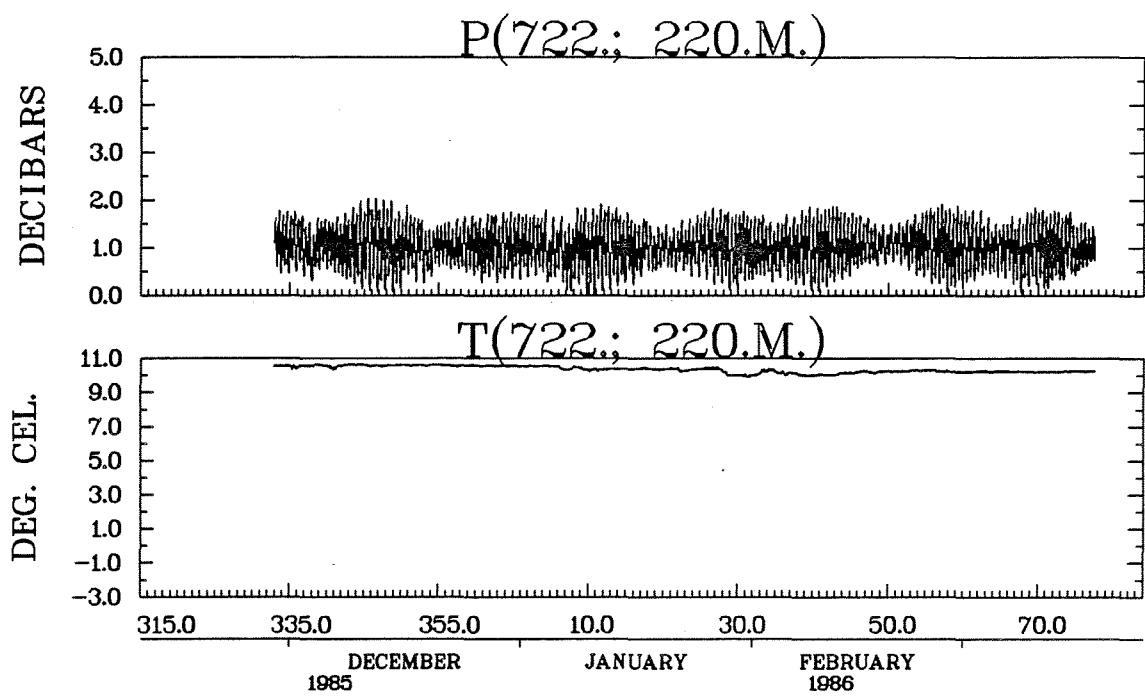
MOORING 722
DEPTH (M) 220

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 108
LATITUDE 44 9.26 N
LONGITUDE 62 51.53 W
WATER DEPTH (M) 220
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 109.52
SAMPLE INTERVAL 30 MINUTES

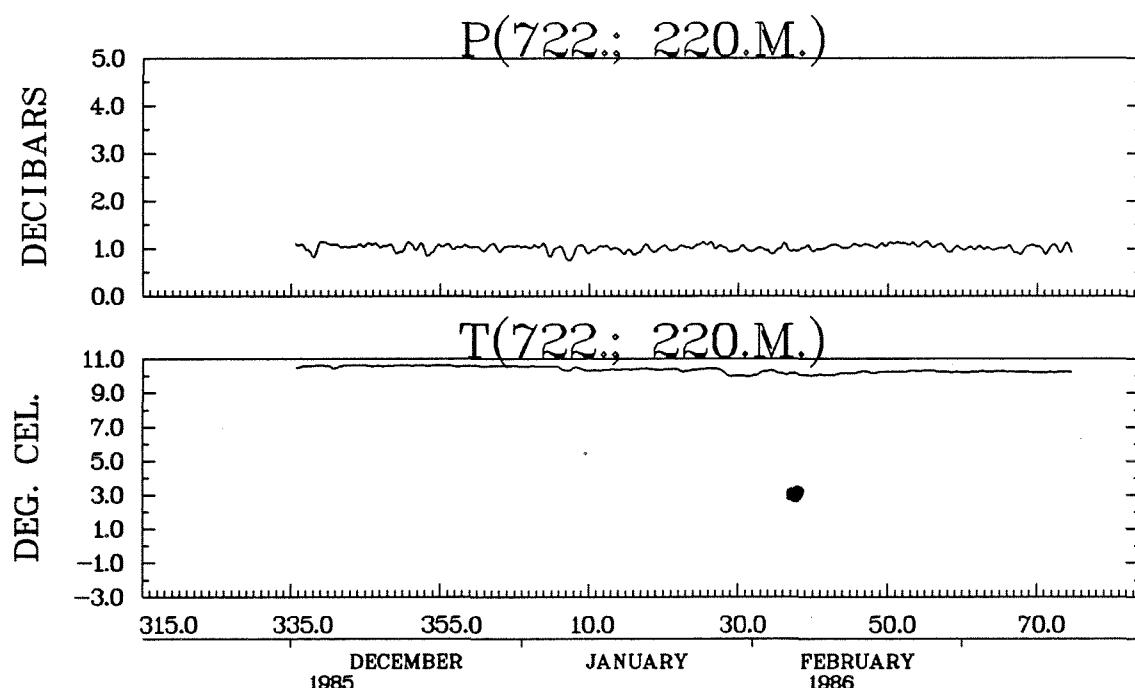
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	10.371	9.930	10.670	.187	5257
PRESSURE(DECIBARS)	1.022	.000	2.040	.444	5257

COMMENTS

INSTRUMENT FAILED ON DAY 77, 1986.



CASP S4 NOV. 28/1985 - APRIL 5/1986



CASP S4 NOV. 28/1985 – APRIL 5/1986

HISTOGRAM OF T(722.; 220.M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

2.00	2.50	0	0.0
2.50	3.00	0	0.0
3.00	3.50	0	0.0
3.50	4.00	0	0.0
4.00	4.50	0	0.0
4.50	5.00	0	0.0
5.00	5.50	0	0.0
5.50	6.00	0	0.0
6.00	6.50	0	0.0
6.50	7.00	0	0.0
7.00	7.50	0	0.0
7.50	8.00	0	0.0
8.00	8.50	0	0.0
8.50	9.00	0	0.0
9.00	9.50	0	0.0
9.50	10.00	21	.4 *
10.00	10.50	3458	65.8 *****
10.50	11.00	1778	33.8 *****
11.00	11.50	0	0.0
11.50	12.00	0	0.0

TOTAL NO. OF SAMPLES 5257

OUTSIDE RANGE 0

MOORING 723
DEPTH (M) 14

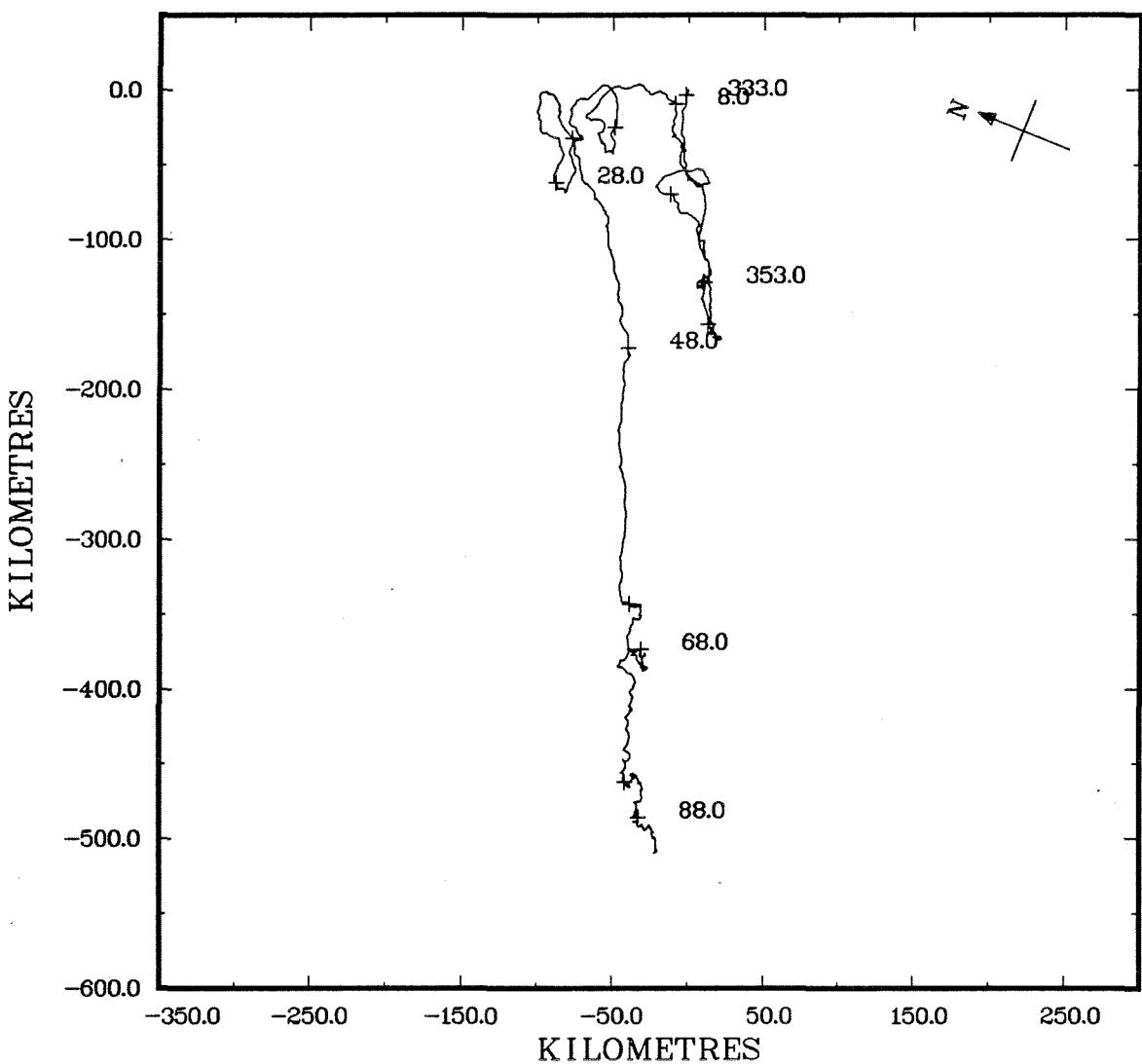
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 818
LATITUDE 44 21.57 N
LONGITUDE 63 15.06 W
WATER DEPTH (M) 103
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.25
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.153	.021	.510	.075	6108
U(158° T) COMP VEL(M/S)	-.002	-.350	.264	.090	6108
V(68° T) COMP VEL(M/S)	-.046	-.501	.470	.137	6108
TEMPERATURE(DEG.C.)	1.171	-1.547	5.946	2.066	6108
SALINITY	31.383	31.006	32.099	.190	6108
SIGMA-T(KG/M**3)	25.099	24.575	25.599	.160	6108

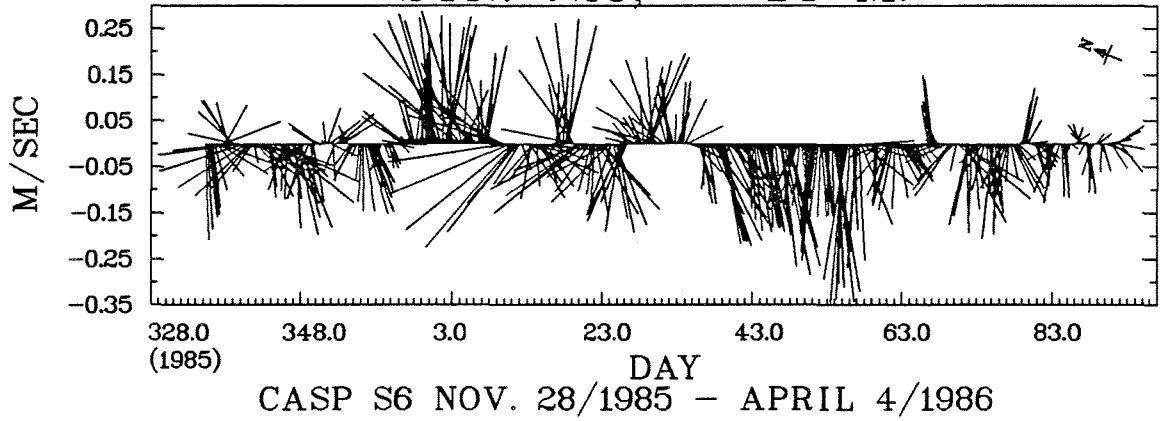
COMMENTS

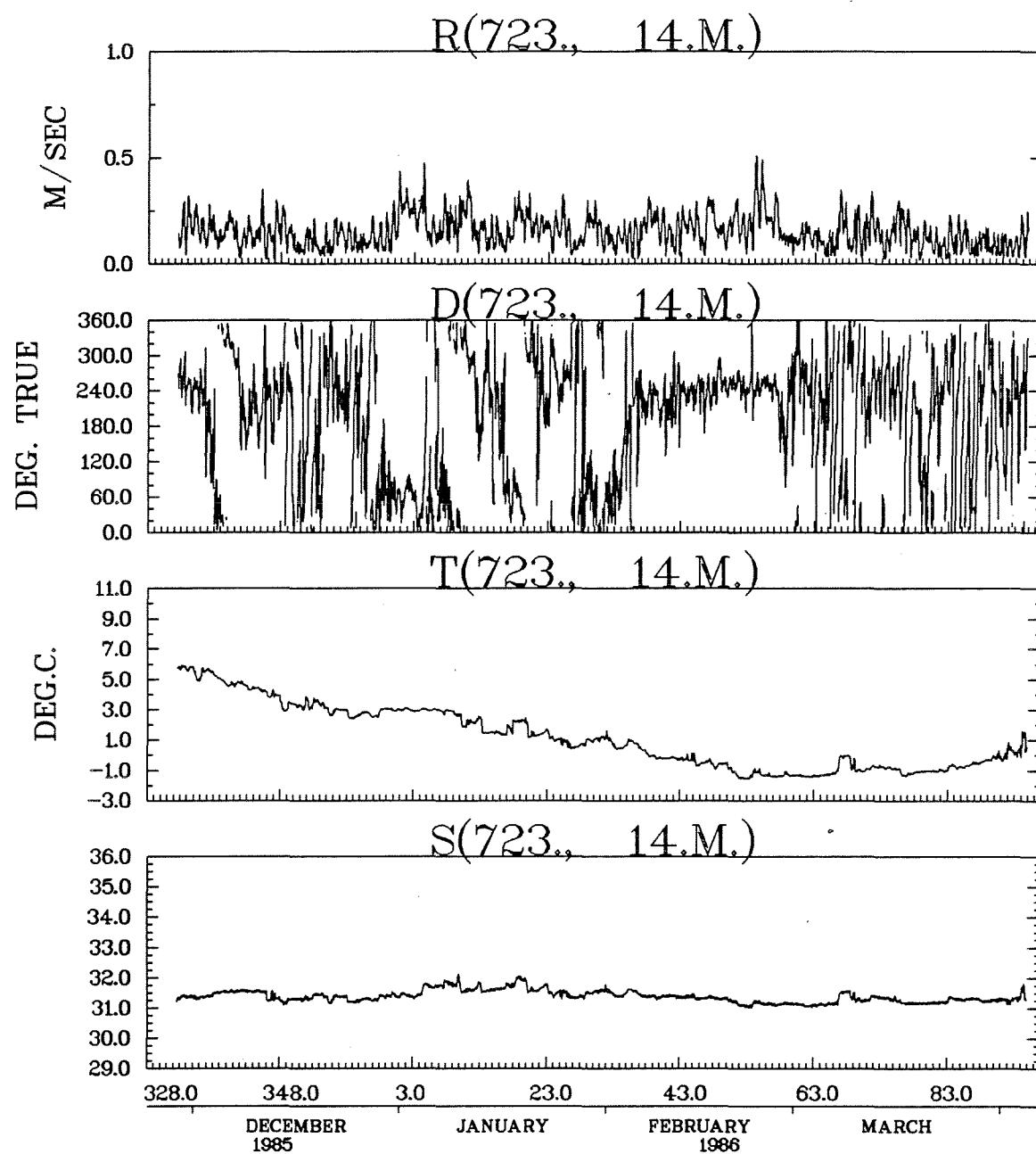
PADDLE WHEEL ROTOR USED

STN. 723, 14 M.

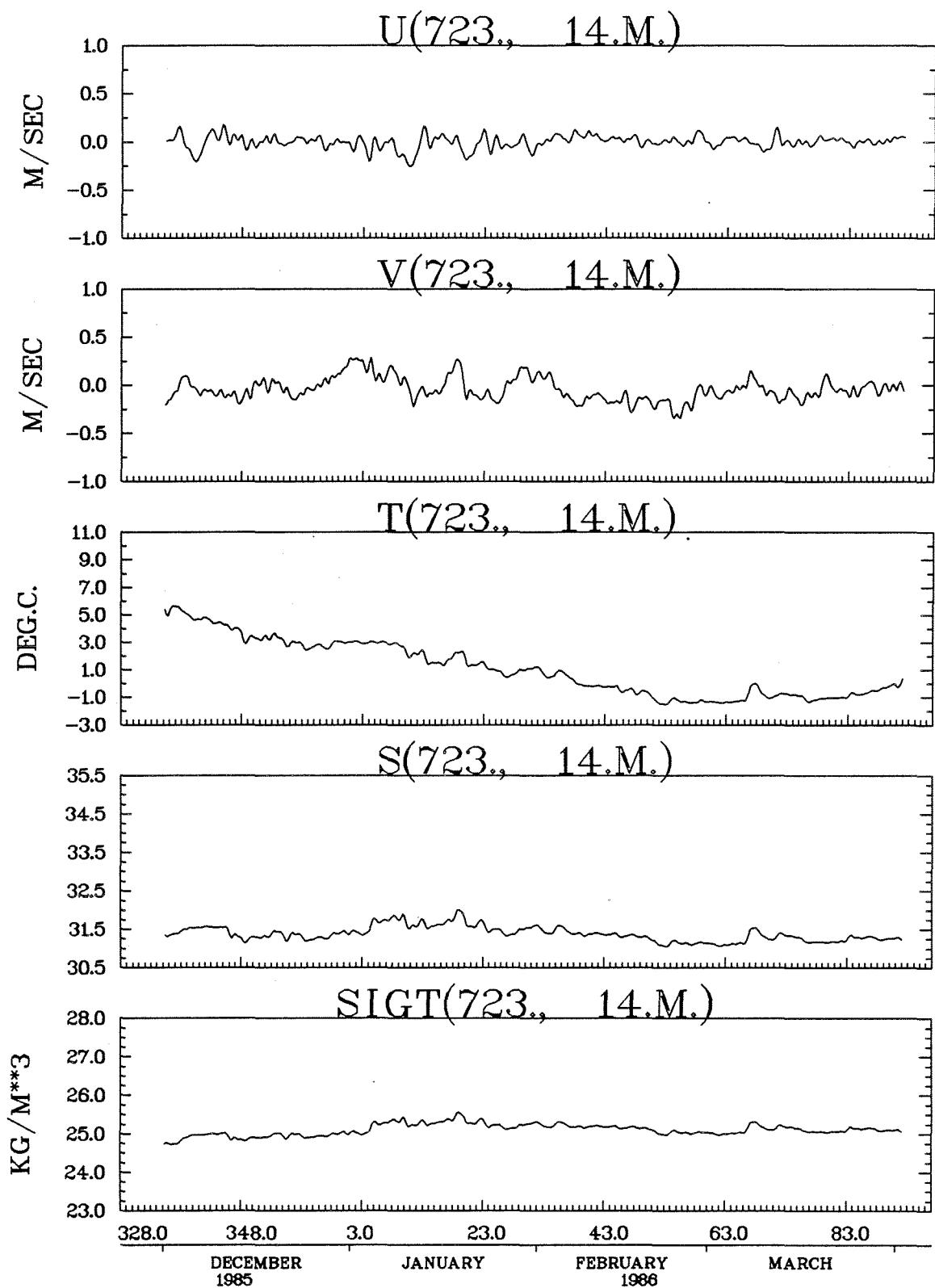


STN. 723, 14 M.

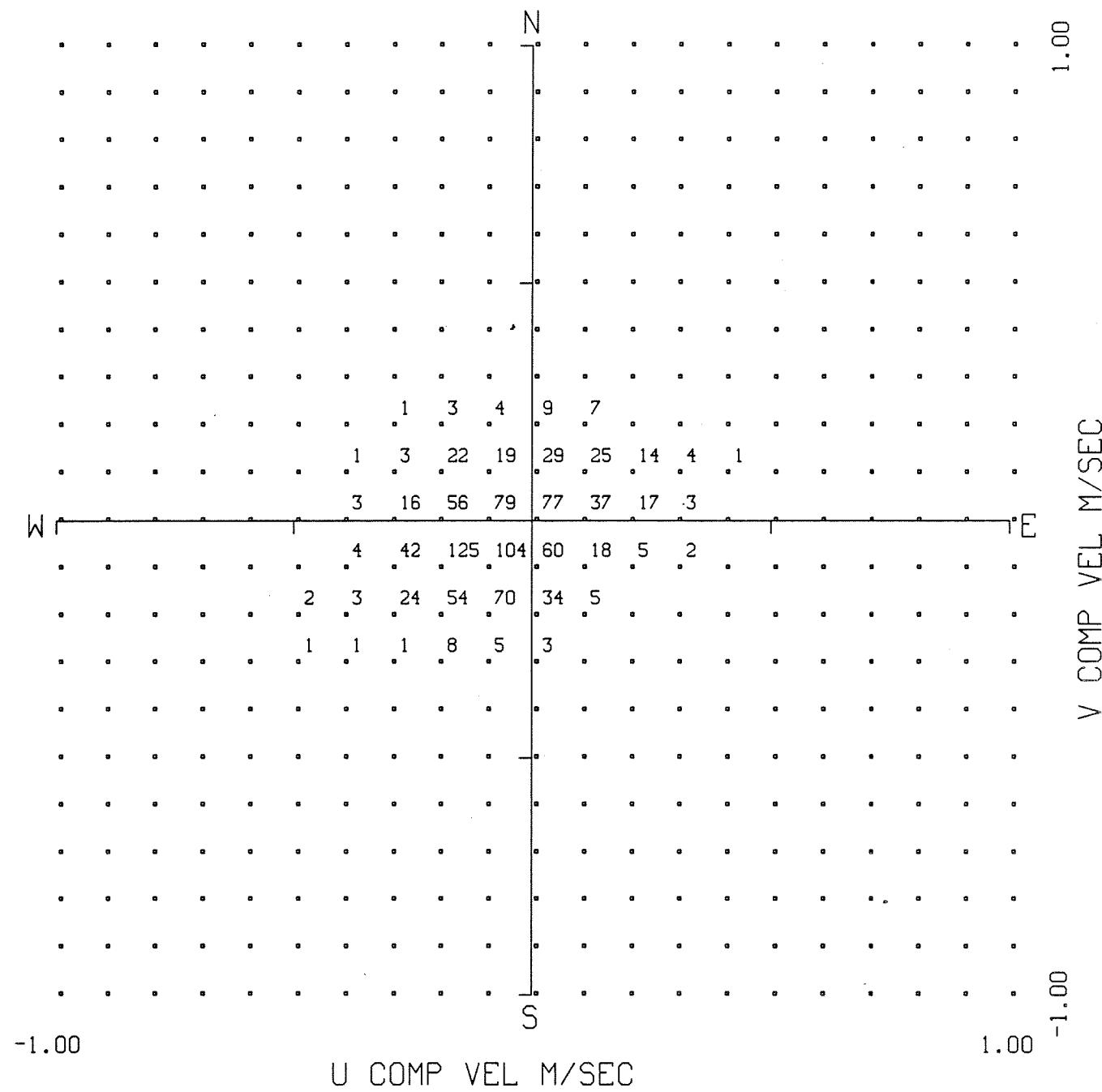




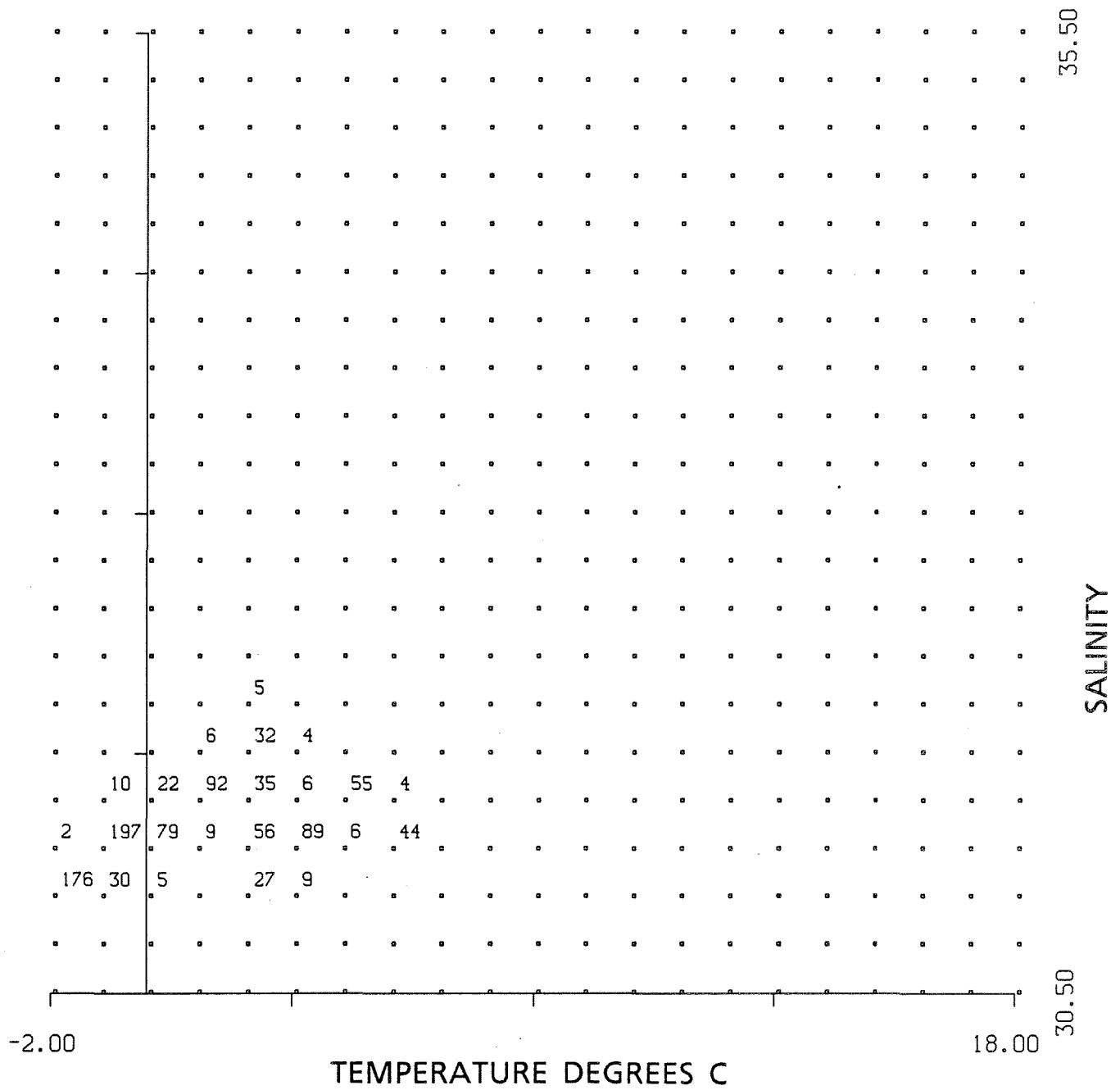
CASP S6 NOV. 28/1985 – APRIL 4/1986



CASP S6 NOV. 28/1985 – APRIL 4/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 723 DEPTH 14 M.
 START TIME 28/11/ 85 14:29:55.5 GMT
 FREQUENCY UNIT 0.1%



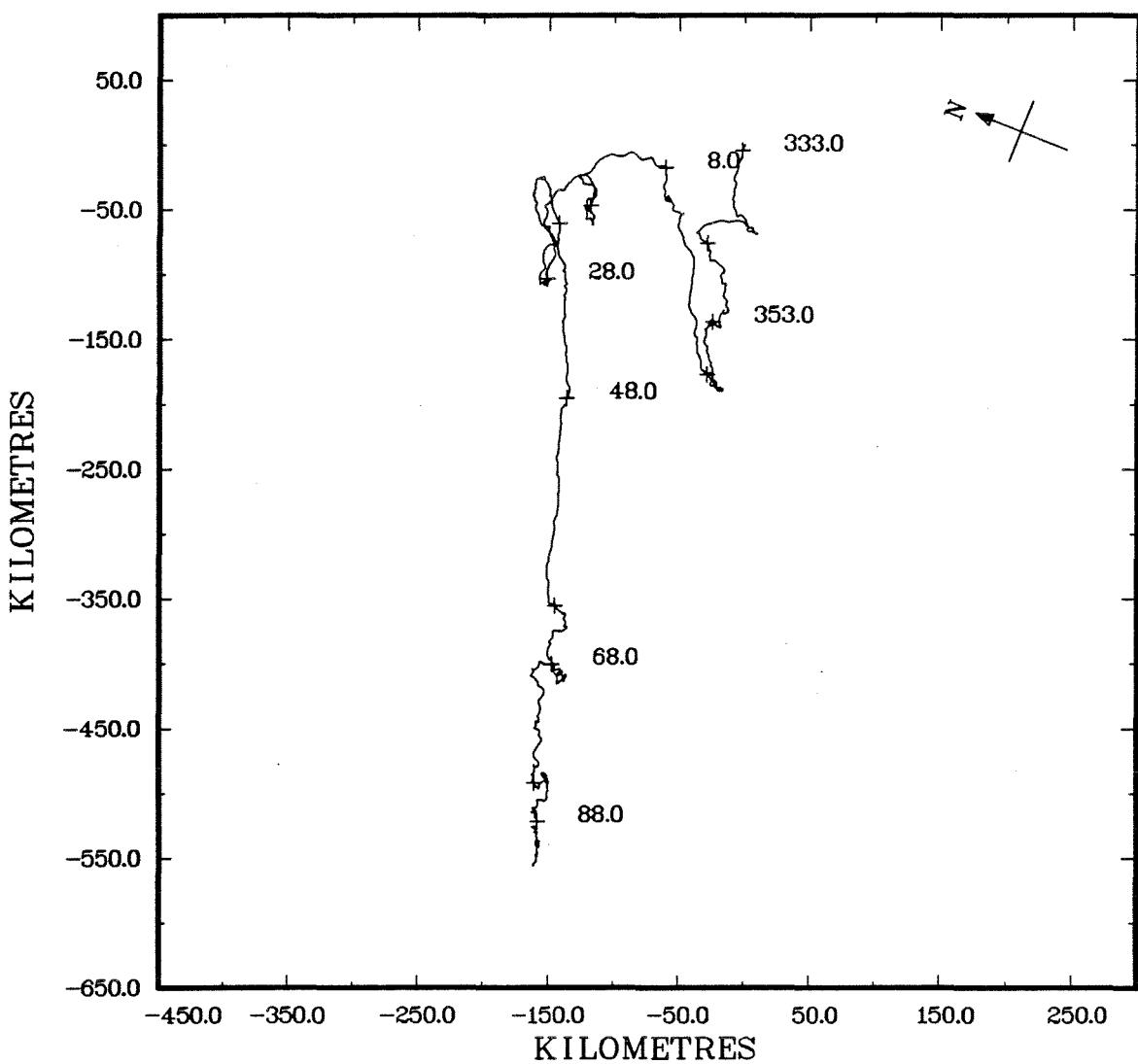
FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 723 DEPTH 14 M.
START TIME 28/11/ 85 14:29:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 723
DEPTH (M) 26

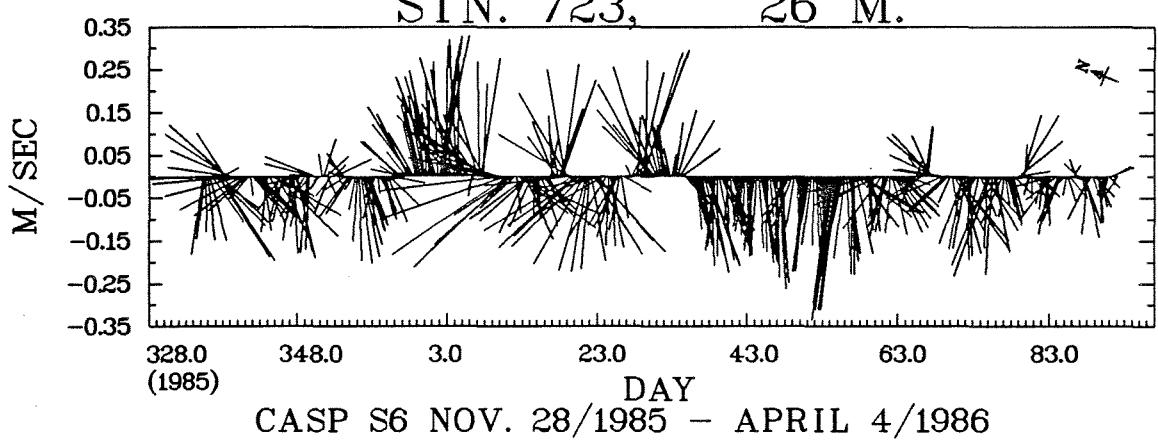
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 4600
LATITUDE 44 21.67 N
LONGITUDE 63 15.06 W
WATER DEPTH (M) 96
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.25
SAMPLE INTERVAL 30 MINUTES

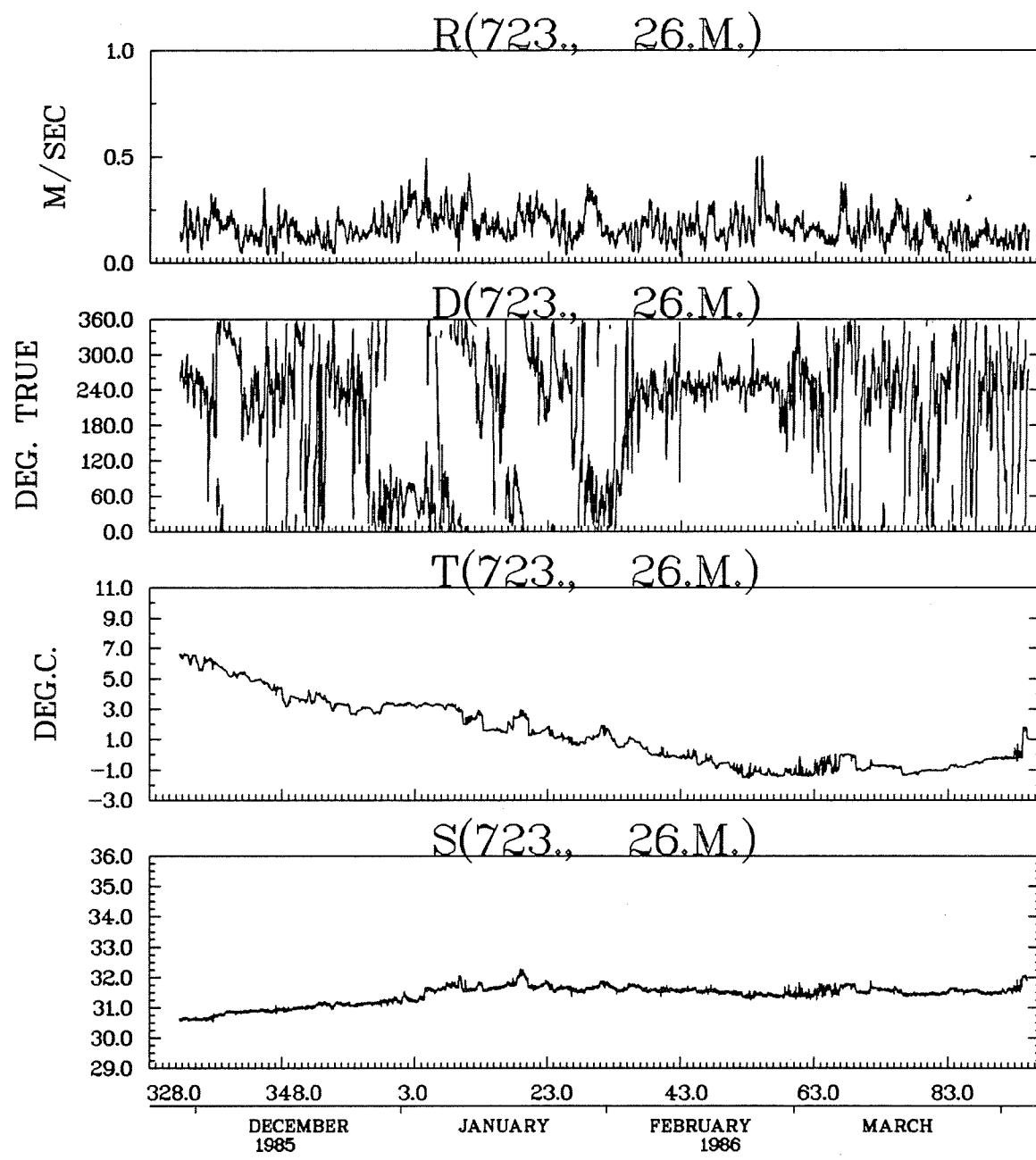
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.169	.032	.502	.068	6108
U(158° T) COMP VEL (M/S)	-.015	-.368	.305	.100	6108
V(68° T) COMP VEL (M/S)	-.051	-.497	.467	.143	6108
TEMPERATURE(DEG.C.)	1.378	-1.546	6.687	2.232	6108
SALINITY	31.411	30.547	32.279	.316	6108
SIGMA-T(KG/M**3)	25.107	23.983	25.723	.382	6108

STN. 723, 26 M.

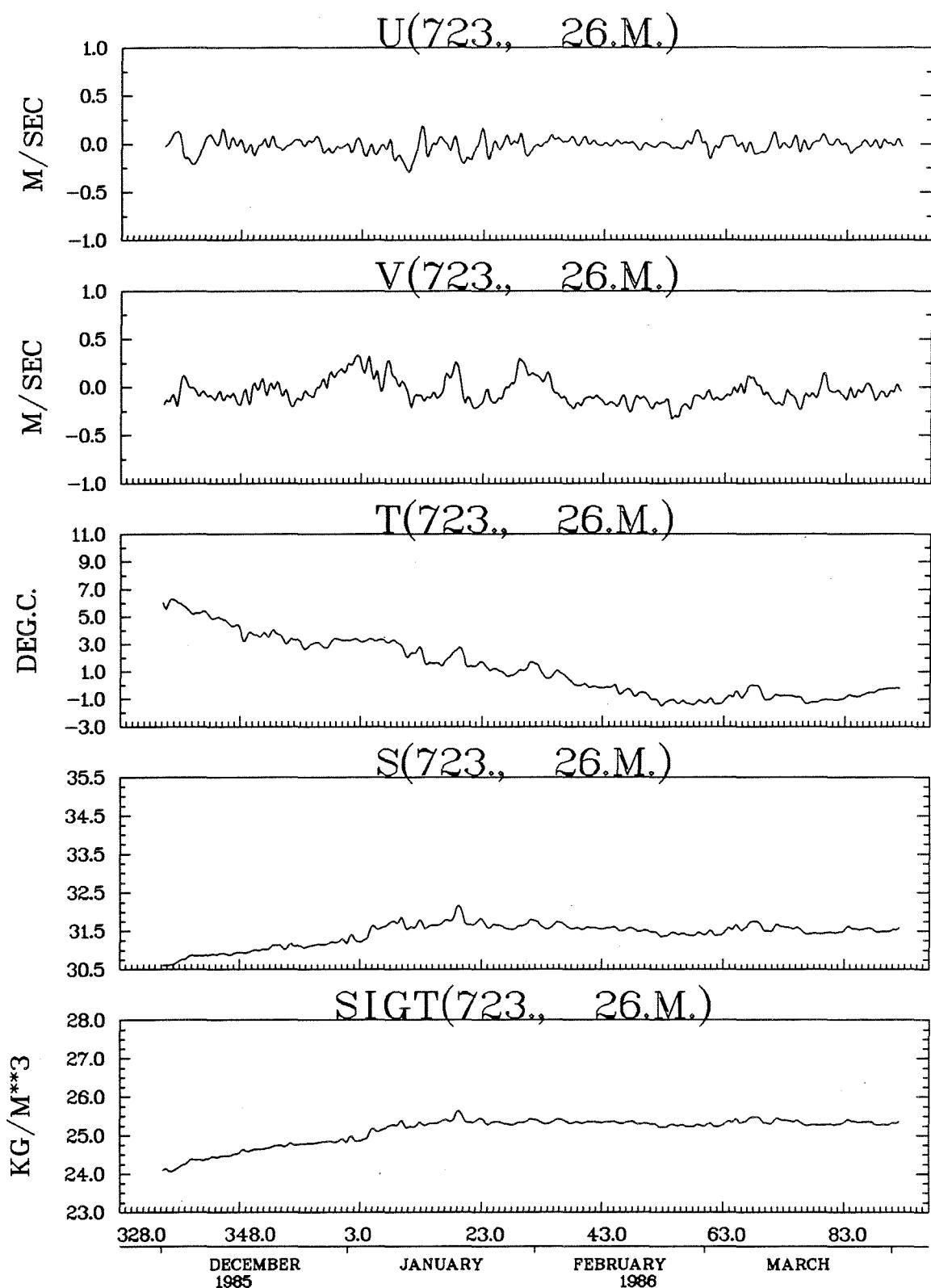


STN. 723, 26 M.

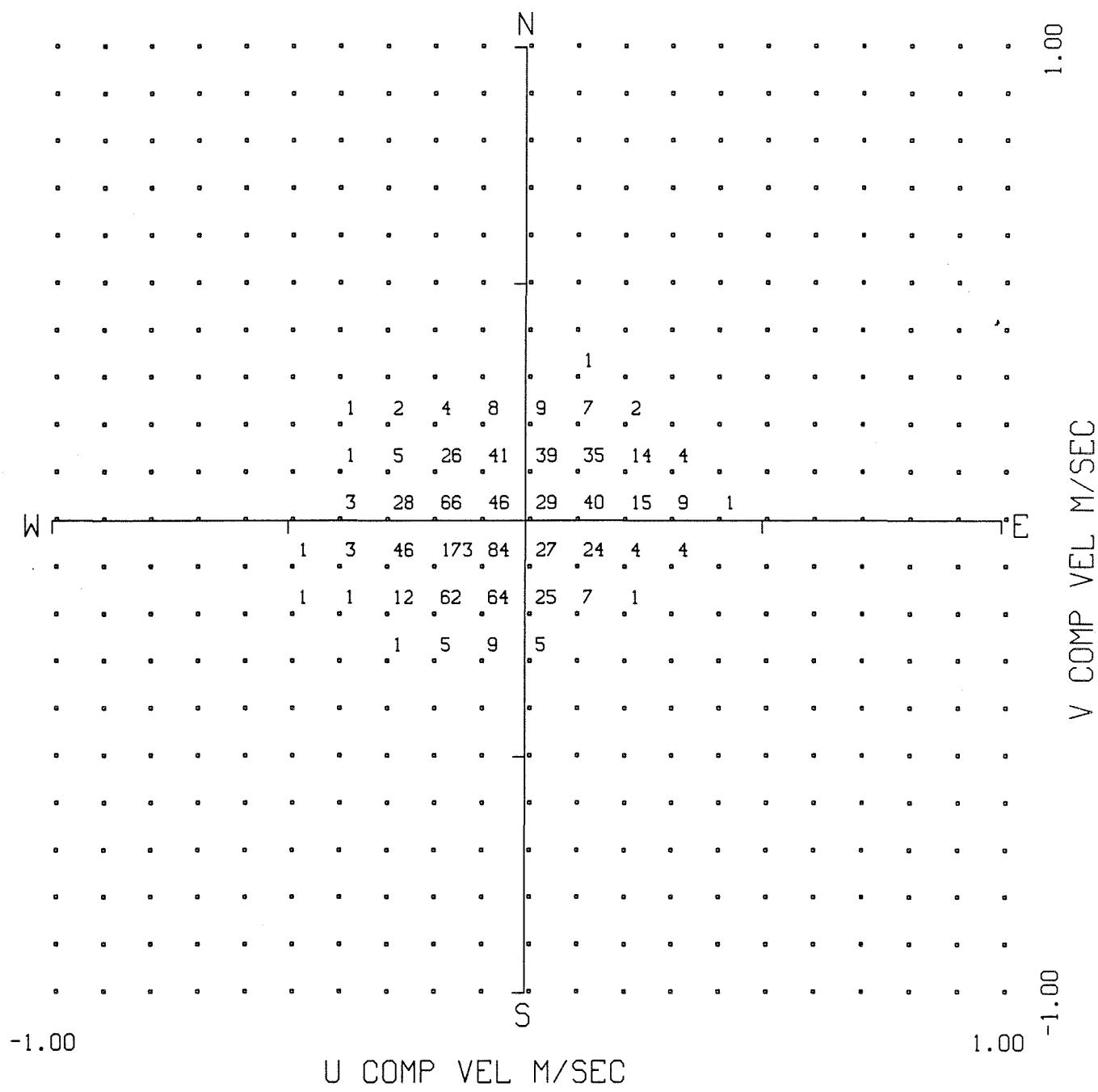




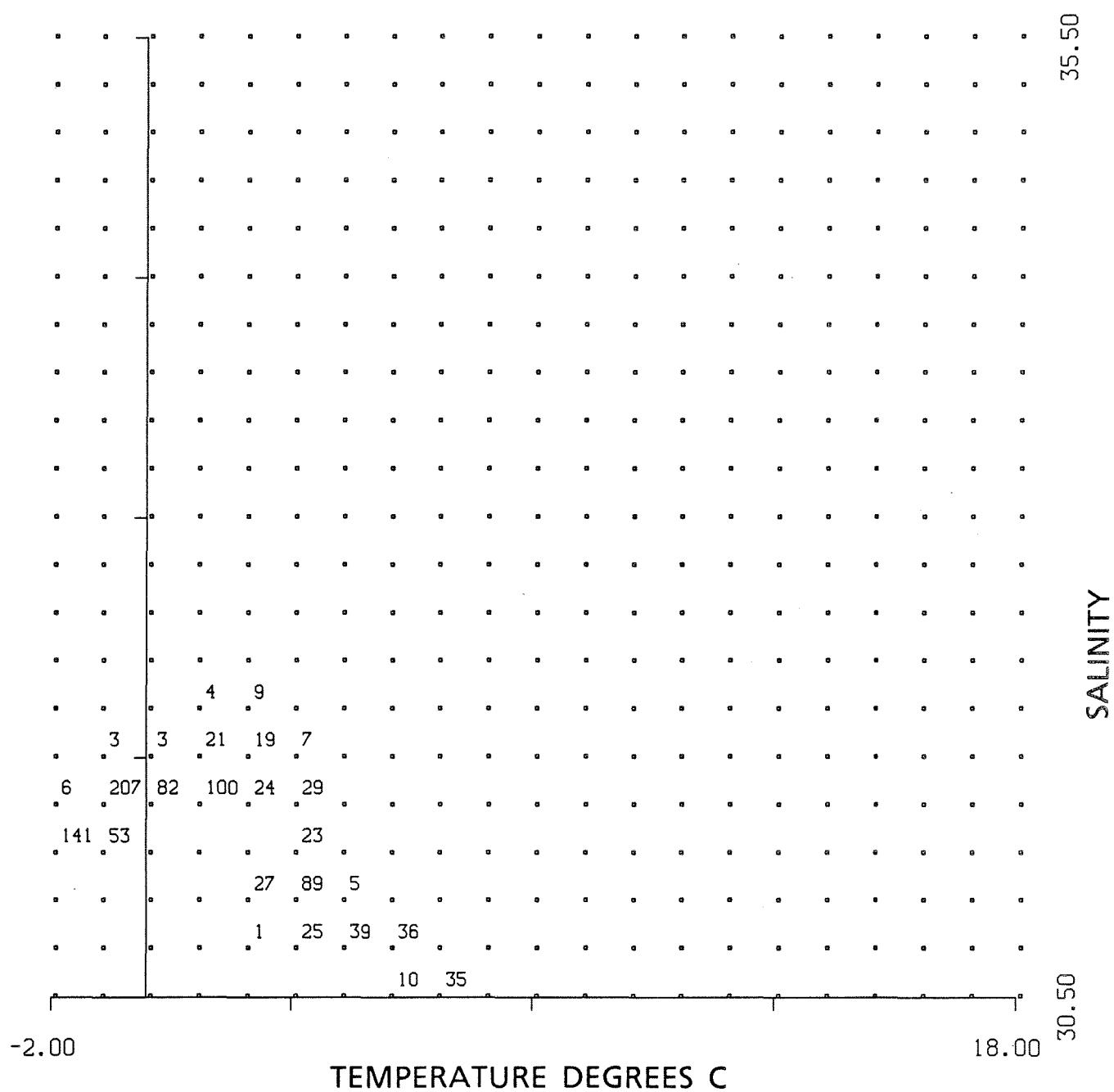
CASP S6 NOV. 28/1985 – APRIL 4/1986



CASP S6 NOV. 28/1985 – APRIL 4/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 723 DEPTH 26 M.
START TIME 28/11/ 85 14:29:55.5 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 723 DEPTH 26 M.
 START TIME 28/11/ 85 14:29:55.5 GMT
 FREQUENCY UNIT 0.1%

MOORING 723
DEPTH (M) 66

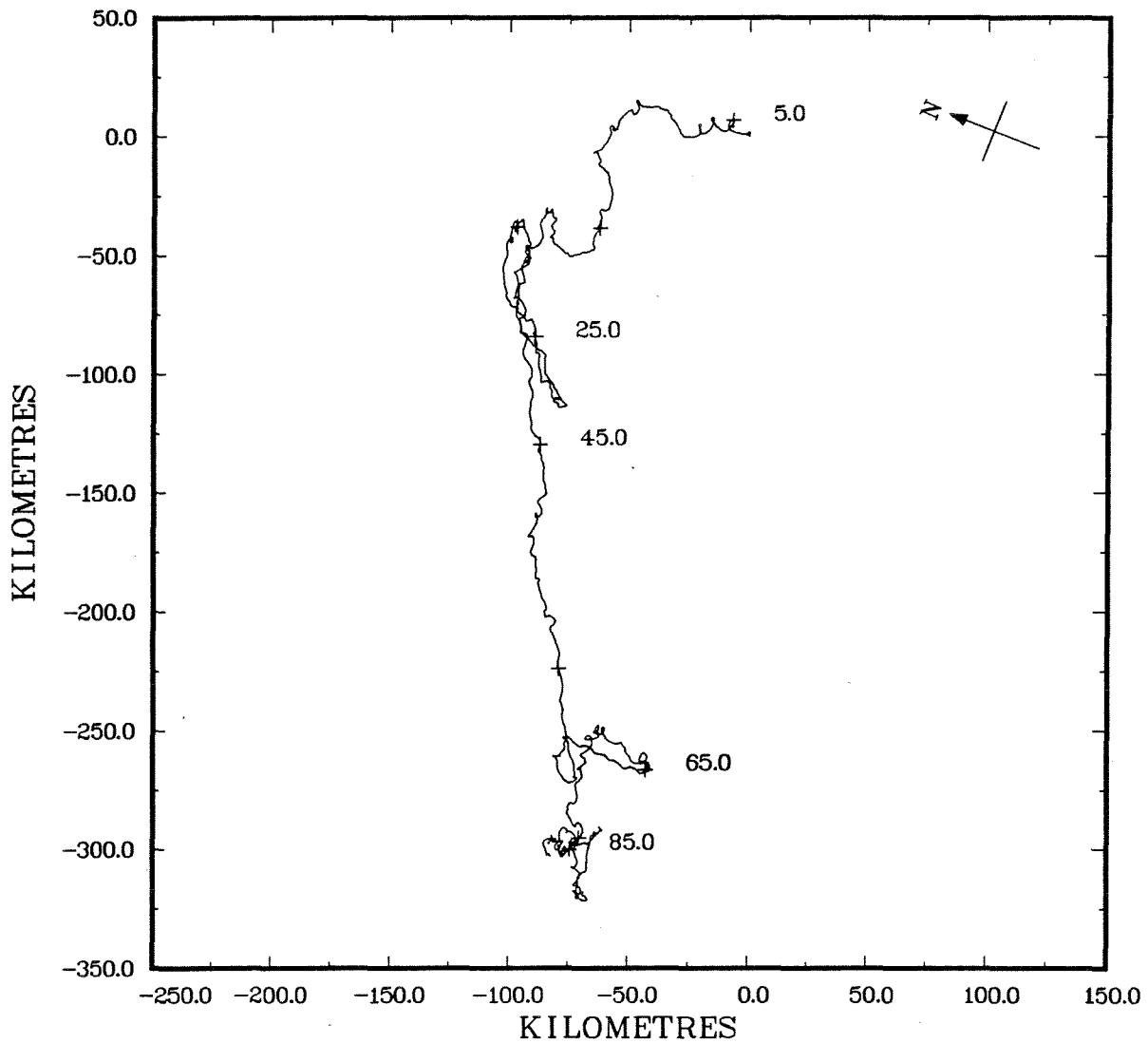
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 7133
LATITUDE 44 21.67 N
LONGITUDE 63 15.06 W
WATER DEPTH (M) 96
MOORING DATE ; CRUISE 04/01/1986 ; 85-040
DURATION (DAYS) 90.75
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.148	.031	.420	.062	4356
U(158° T) COMP VEL(M/S)	-.010	-.409	.210	.091	4356
V(68° T) COMP VEL(M/S)	-.039	-.347	.344	.125	4356
● TEMPERATURE(DEG.C.)	1.795	-1.257	5.917	1.237	4356
SALINITY	32.191	31.407	33.640	.357	4356
SIGMA-T(KG/M**3)	25.725	25.223	26.488	.226	4356

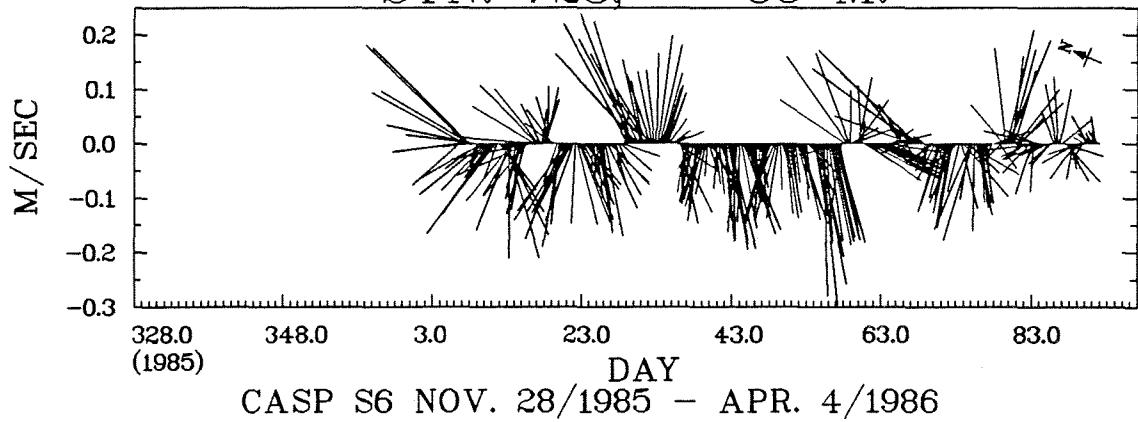
COMMENTS

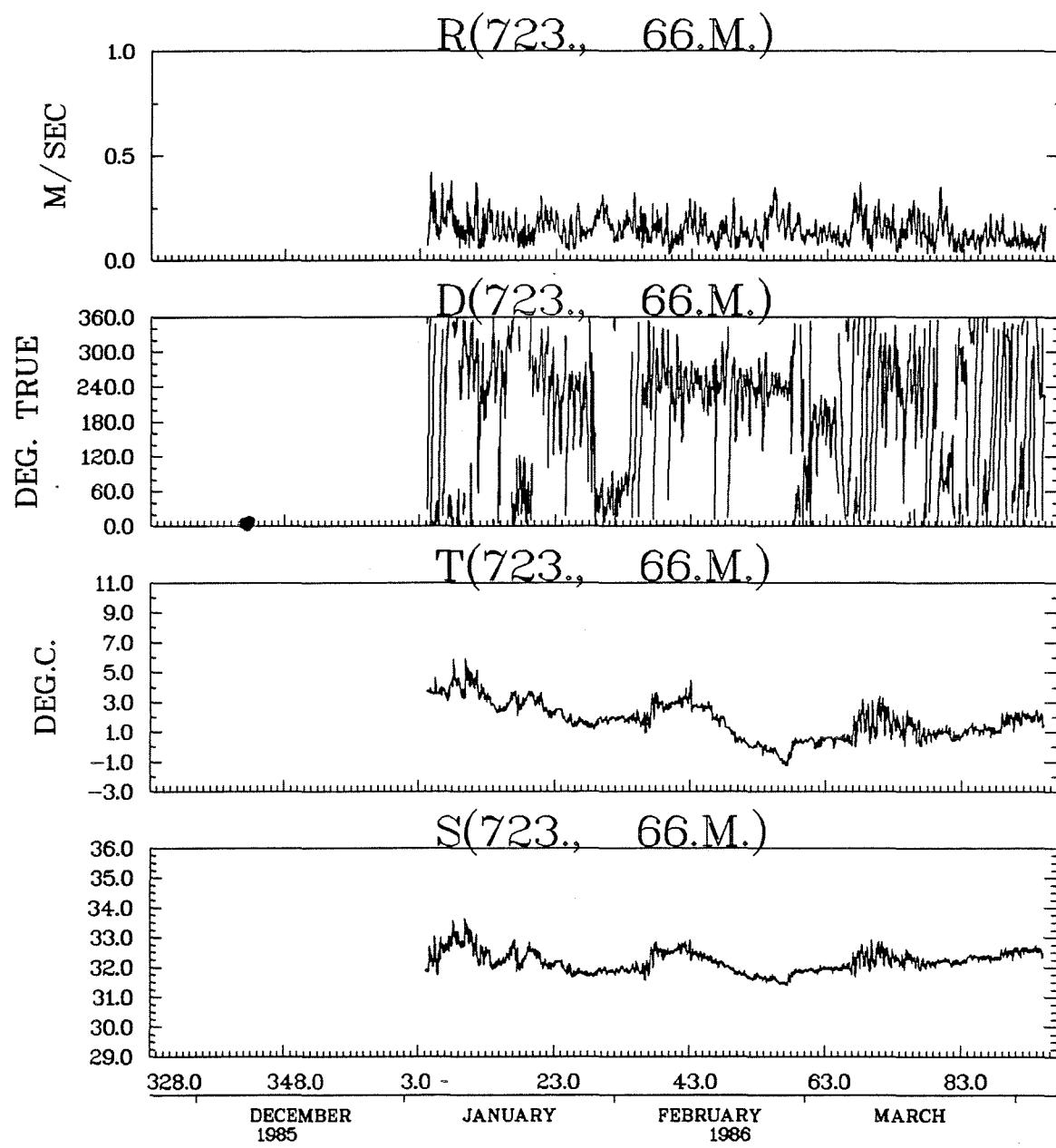
SHORT RECORD (CAUSE UNKNOWN)
DOMINANT CONSTITUENTS (K1 AND O1) AND INERTIAL
TIME SERIES PLOTS INDICATE THE INSTRUMENT
STOPPED WHEN MOORED AND STARTED AGAIN ON THE
04-01-86.

STN. 723, 66 M.

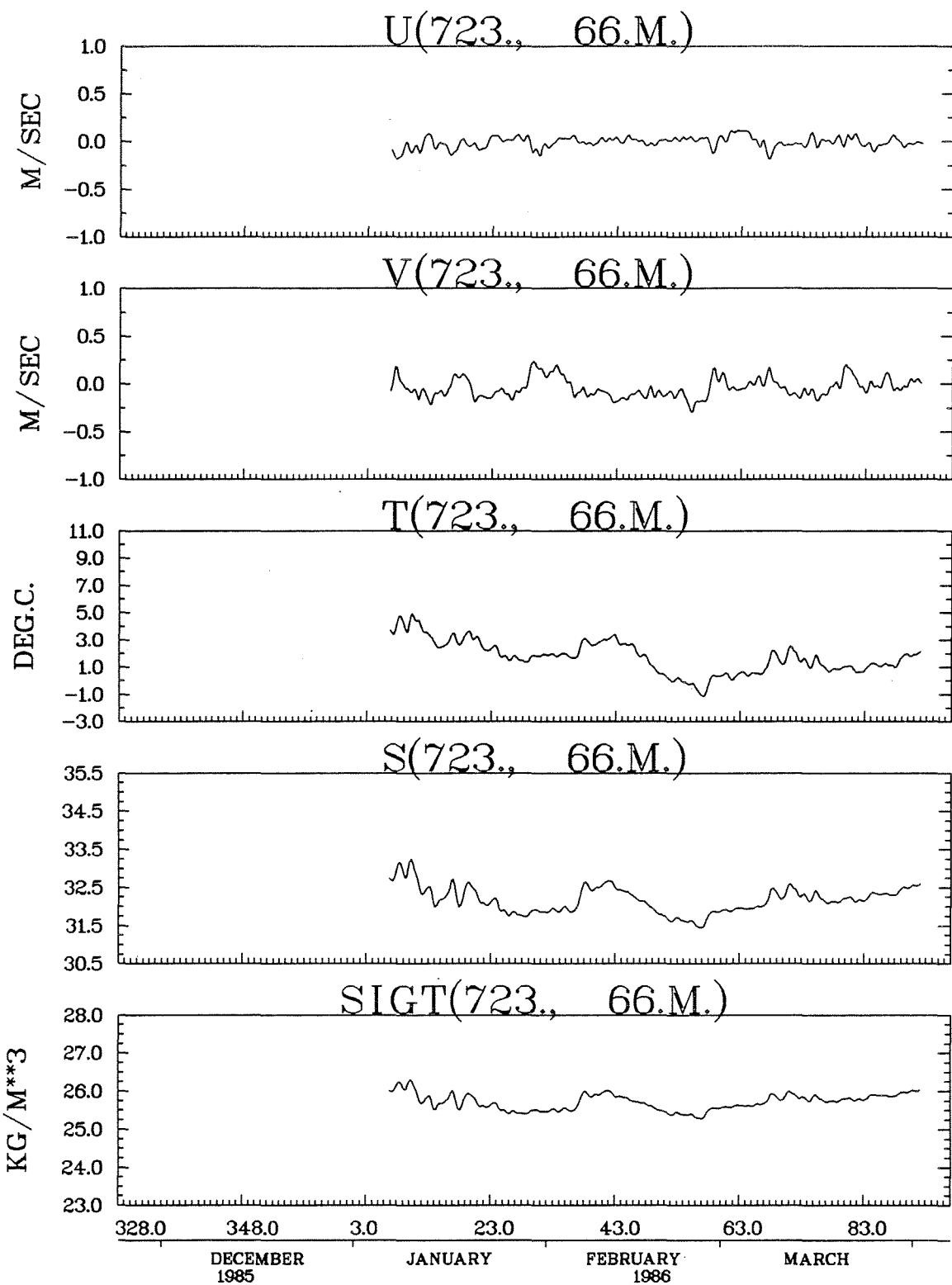


STN. 723, 66 M.

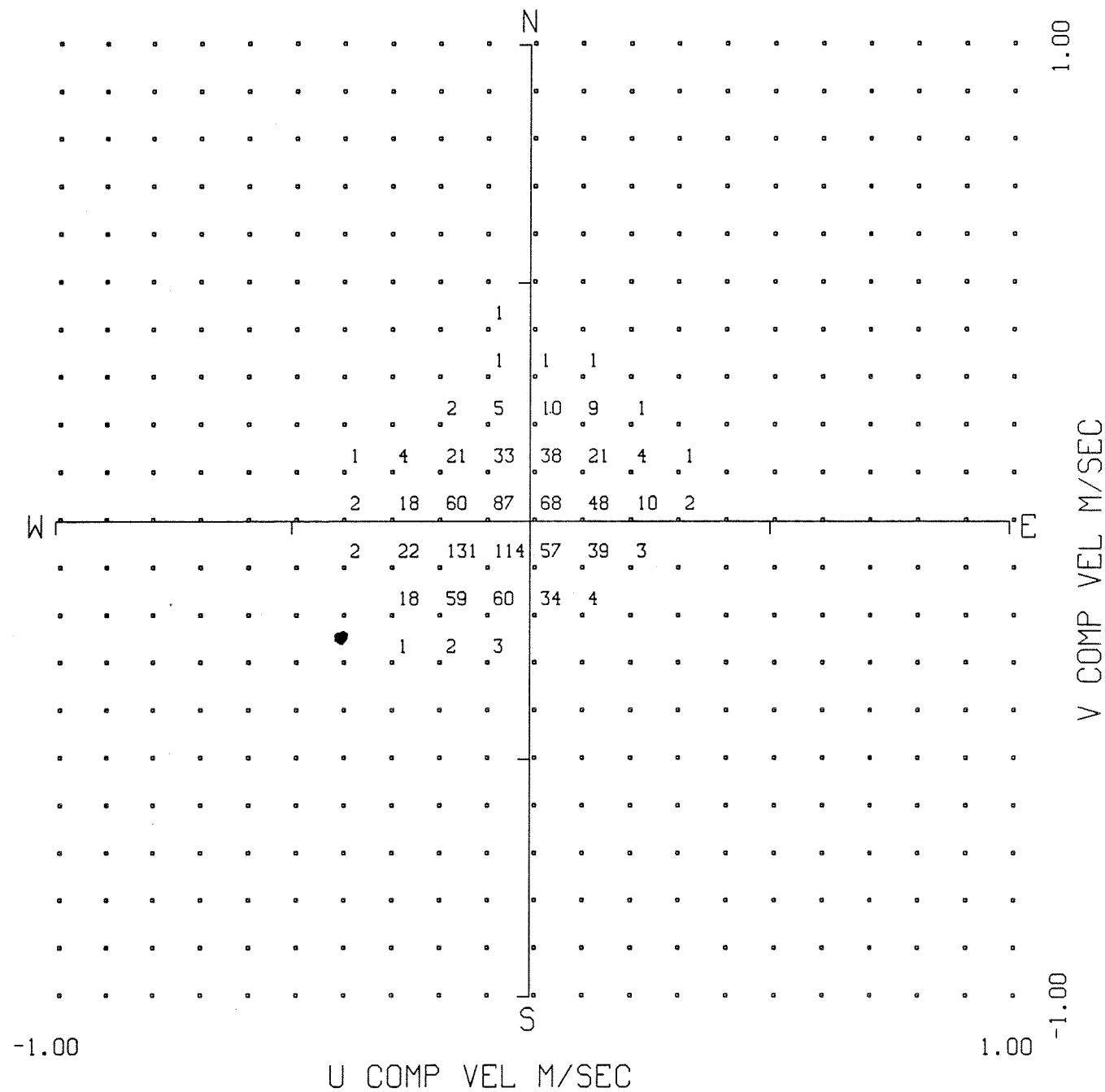




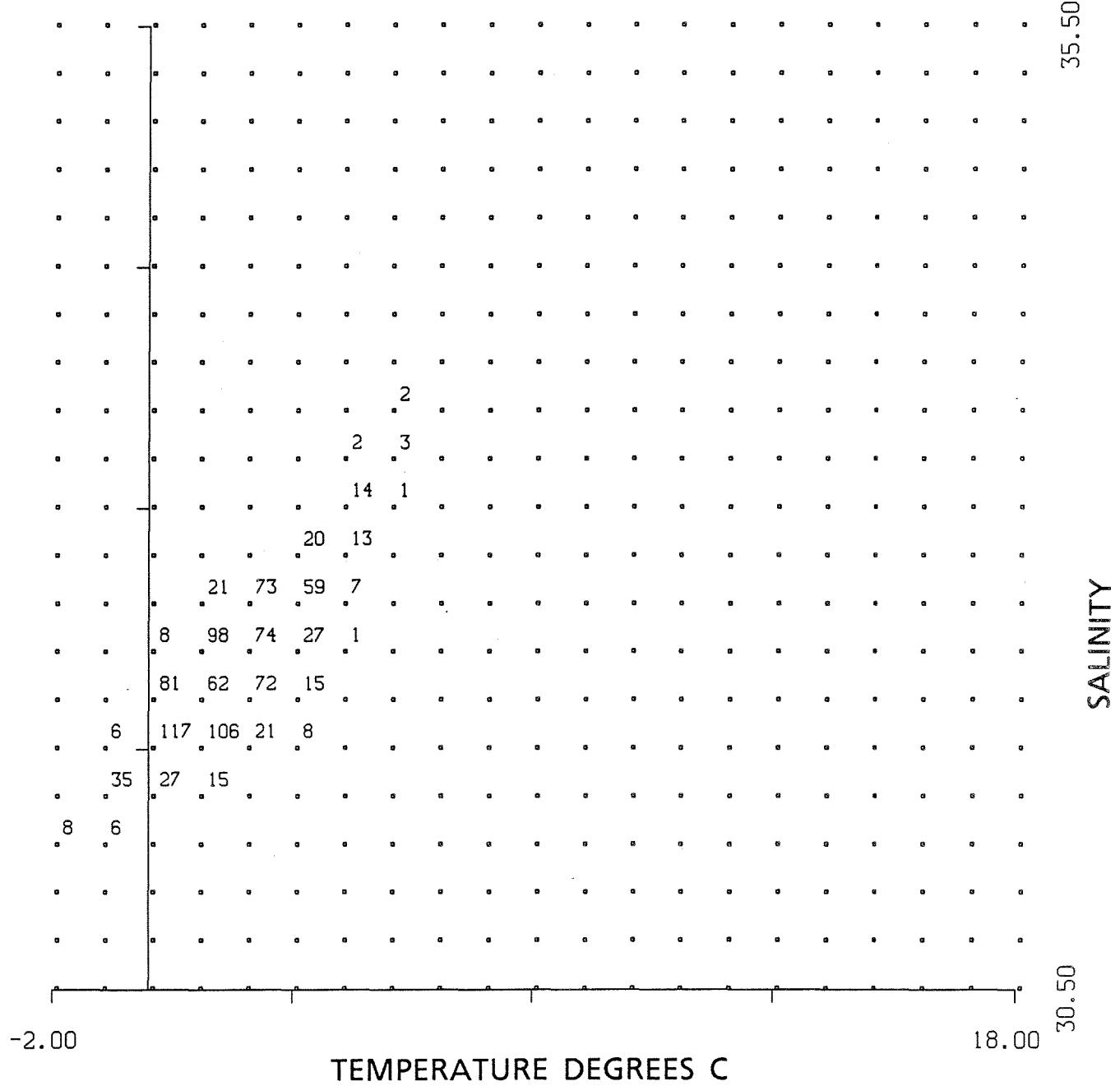
CASP S6 NOV. 28/1985 - APRIL 4/1986



CASP S6 NOV. 28/1985 – APRIL 4/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 723 DEPTH 66 M.
START TIME 4/ 1/1986 2: 0: .0 GMT
FREQUENCY UNIT 0.1%

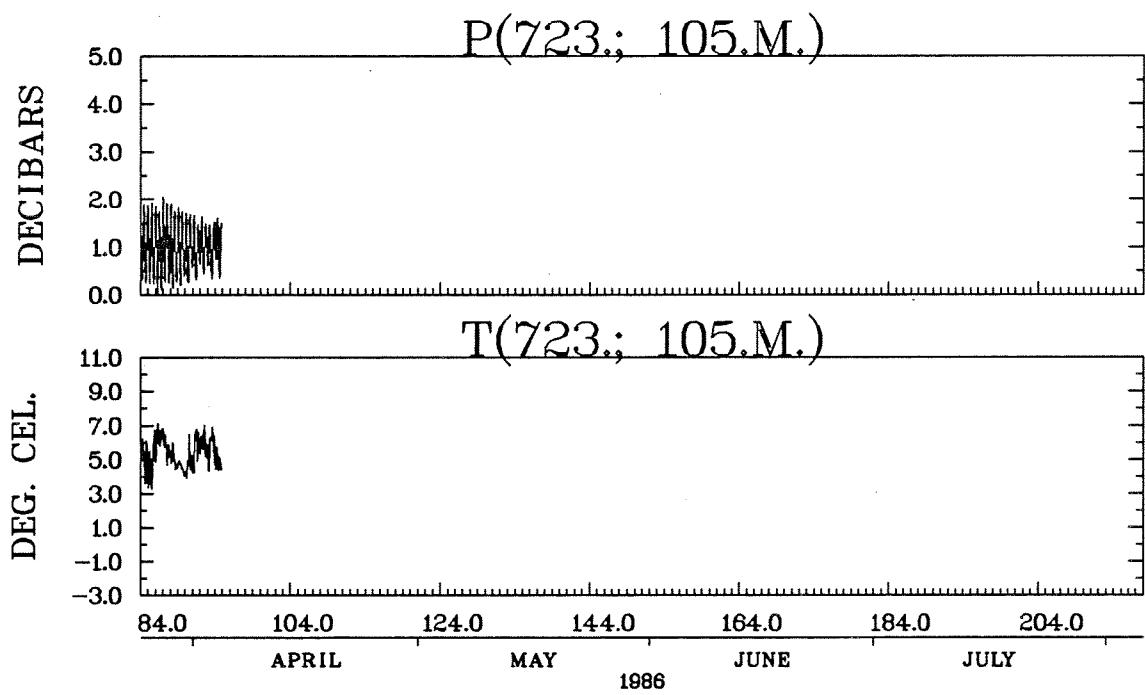
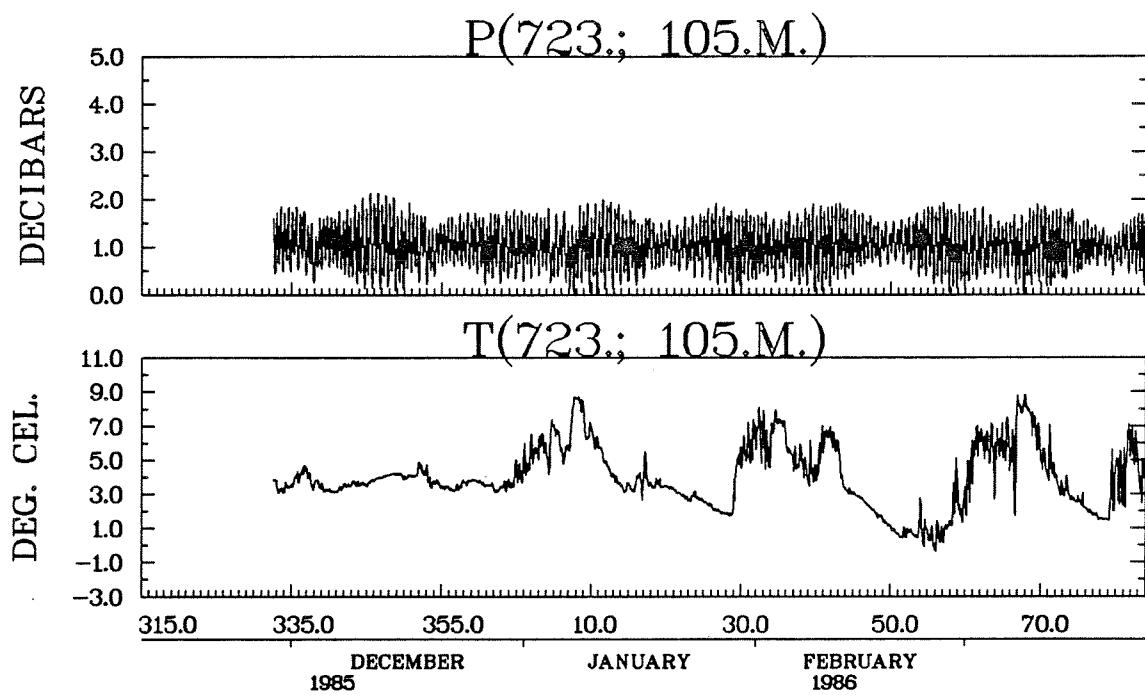


FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 723 DEPTH 66 M.
 START TIME 4/ 1/1986 2: 0: .0 GMT
 FREQUENCY UNIT 0.1%

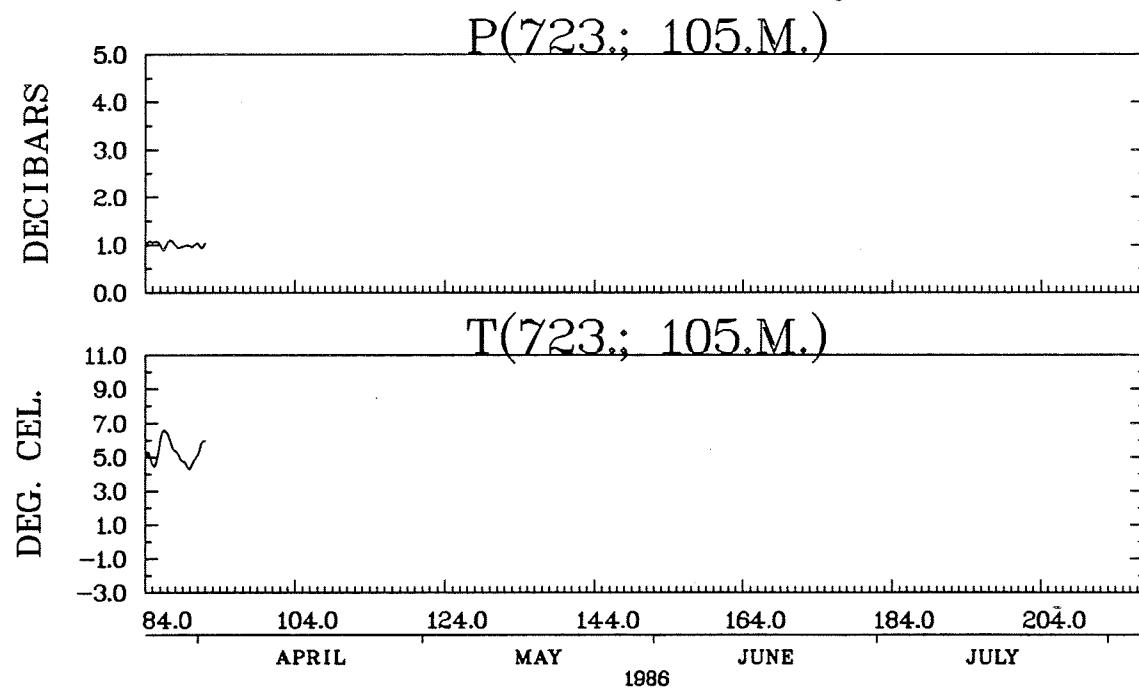
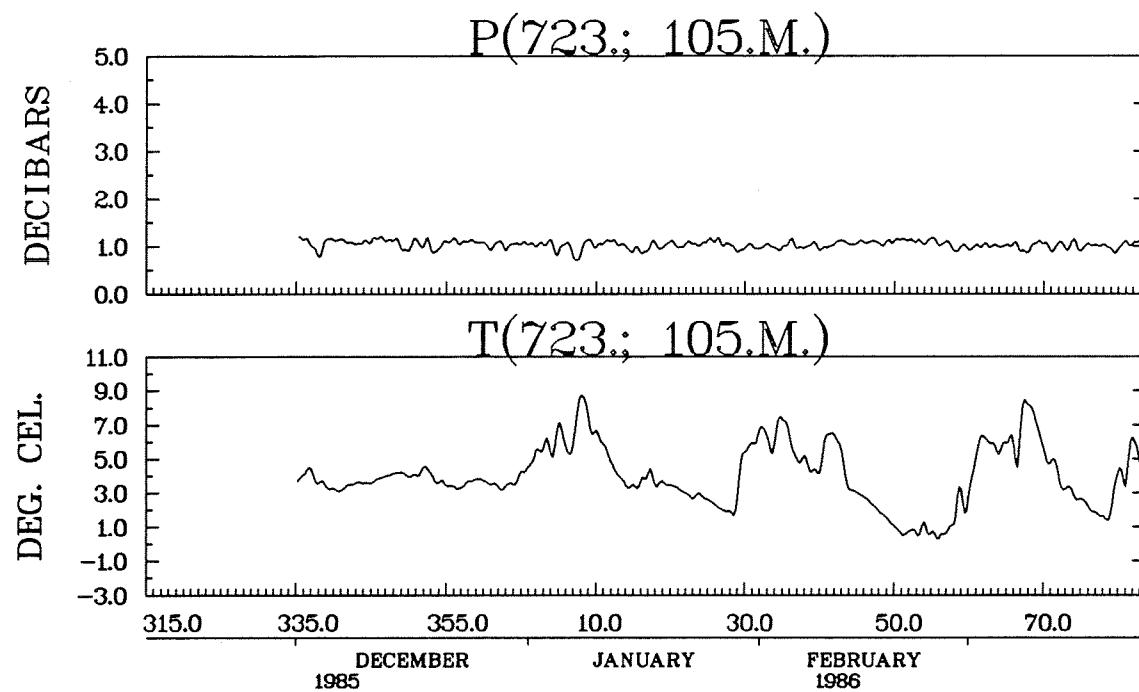
MOORING 723
DEPTH (M) 105

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 830
LATITUDE 44 21.51 N
LONGITUDE 63 15.06 W
WATER DEPTH (M) 105
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 127.29
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	4.106	-.380	8.830	1.775	3055
PRESSURE(DECIBARS)	1.039	.000	2.140	.458	3055



CASP S6 NOV. 28/1985 – APRIL 4/1986



CASP S6 NOV. 28/1985 – APRIL 4/1986

HISTOGRAM OF T(723.; 105.M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-1.00	- .50	0	0.0	
-.50	0.00	11	.4	**
0.00	.50	37	1.2	*****
.50	1.00	97	3.2	*****
1.00	1.50	80	2.6	*****
1.50	2.00	152	5.0	*****
2.00	2.50	126	4.1	*****
2.50	3.00	176	5.8	*****
3.00	3.50	447	14.6	*****
3.50	4.00	514	16.8	*****
4.00	4.50	285	9.3	*****
4.50	5.00	227	7.4	*****
5.00	5.50	190	6.2	*****
5.50	6.00	229	7.5	*****
6.00	6.50	165	5.4	*****
6.50	7.00	130	4.3	*****
7.00	7.50	90	2.9	*****
7.50	8.00	36	1.2	****
8.00	8.50	35	1.1	****
8.50	9.00	28	.9	****

216

TOTAL NO. OF SAMPLES 3055

OUTSIDE RANGE 0

MOORING 724
DEPTH (M) 13

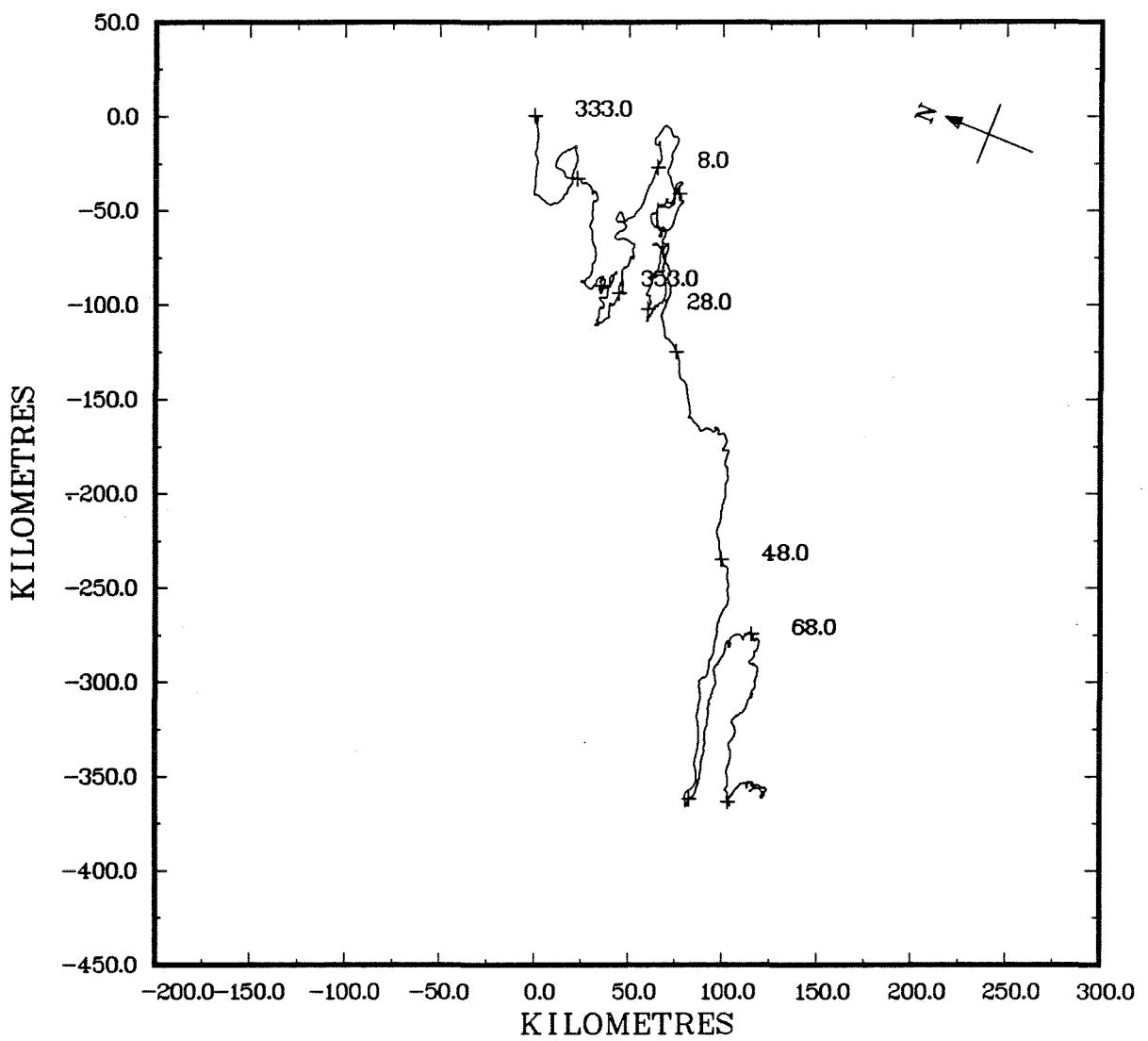
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 820
LATITUDE 44 31.94 N
LONGITUDE 62 49.31 W
WATER DEPTH (M) 102
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 119.40
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.141	.022	.515	.075	5731
U(158° T) COMP VEL(M/S)	.011	-.220	.293	.075	5731
V(68° T) COMP VEL(M/S)	-.034	-.467	.490	.136	5731
TEMPERATURE(DEG.C.)	1.227	-1.599	6.419	2.193	5731
SALINITY	31.322	30.582	31.854	.220	5731
SIGMA-T(KG/M**3)	25.044	24.016	25.467	.292	5731

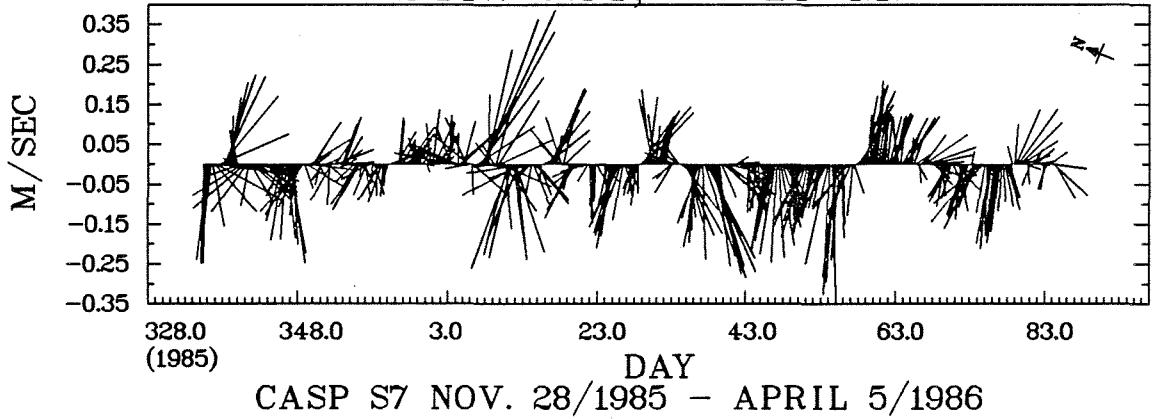
COMMENTS

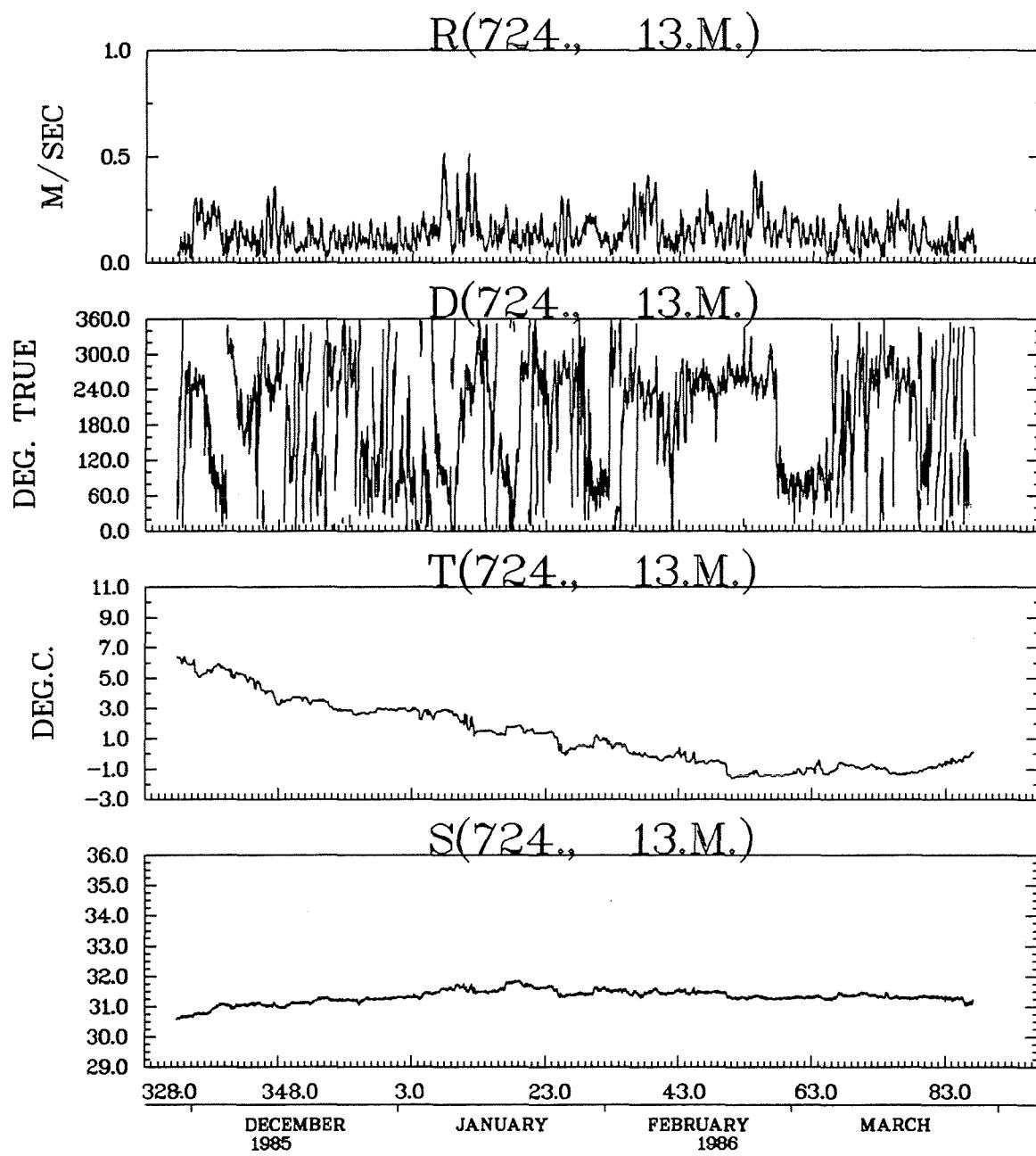
PADDLE WHEEL ROTOR USED
NOISE ON REFERENCE AND TIME COUNT
SHORT RECORD (ENCODER MOTOR SEIZED ON DAY 87 1986)

STN. 724, 13 M.

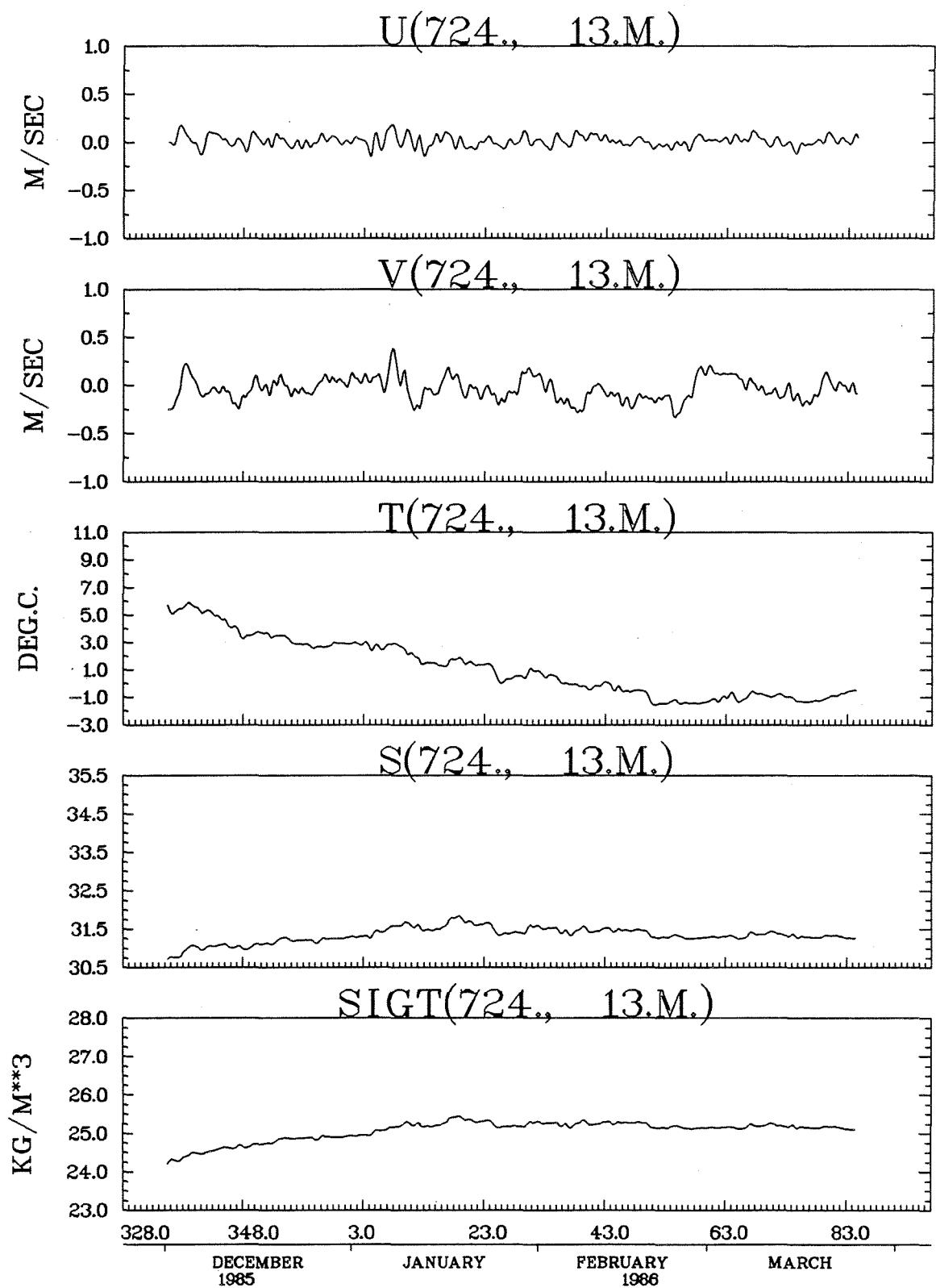


STN. 724, 13 M.

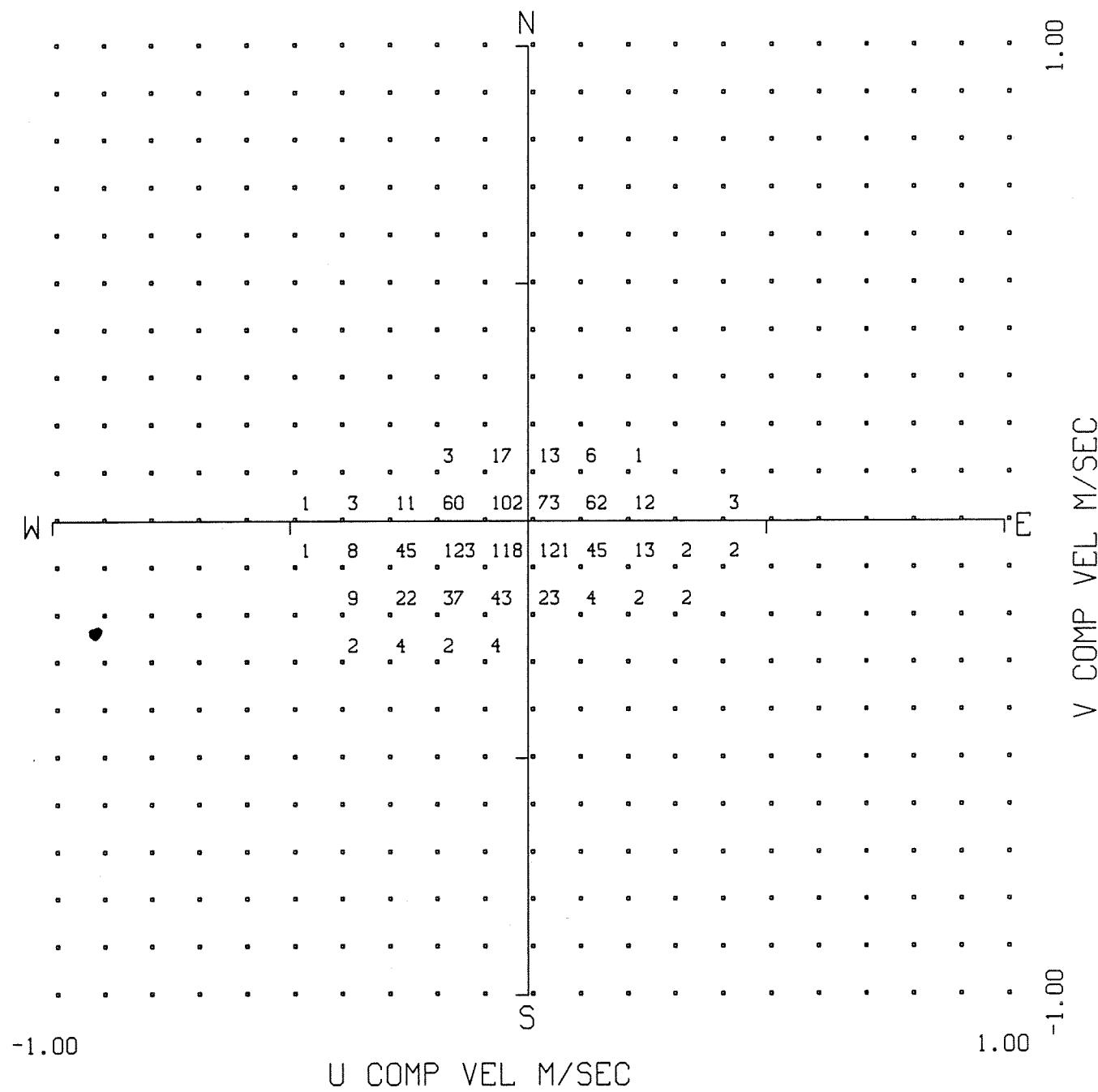




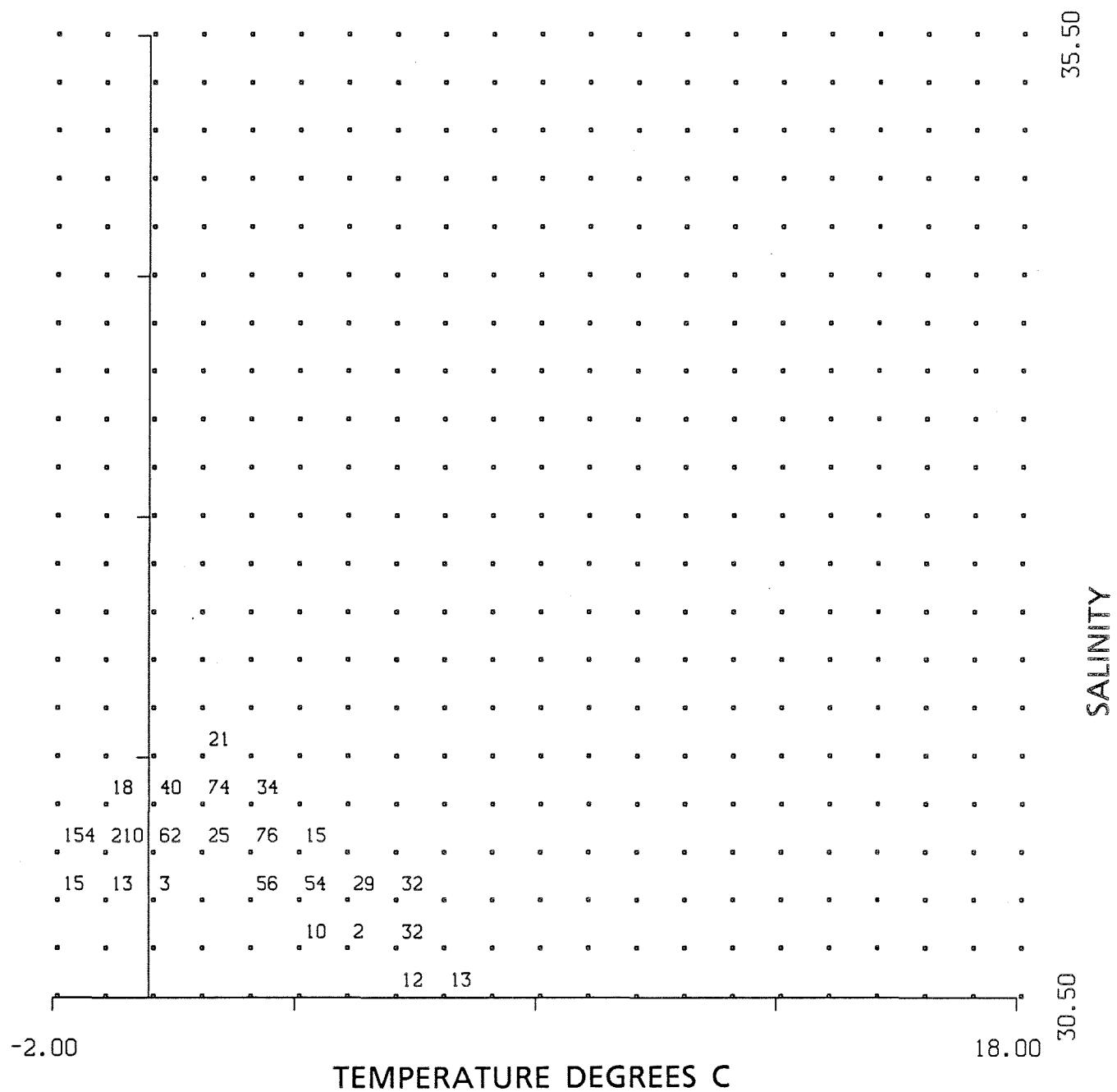
CASP S7 NOV. 28/1985 – APRIL 5/1986



CASP S7 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 724 DEPTH 13 M.
START TIME 28/11/ 85 18:59:55.5 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 724 DEPTH 13 M.
START TIME 28/11/ 85 18:59:55.5 GMT
FREQUENCY UNIT 0.1%

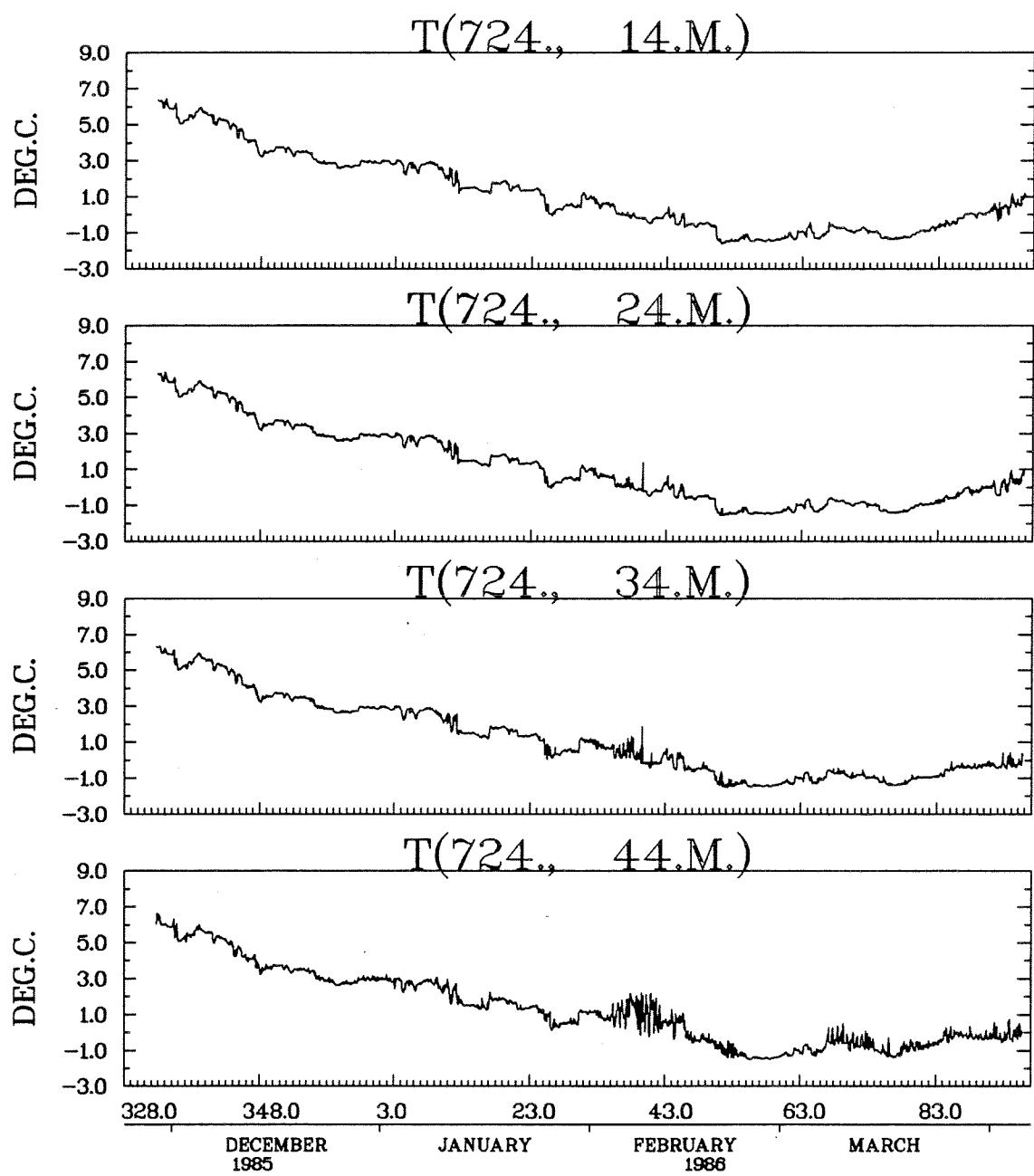
MOORING 724
 DEPTH (M) 14, 24, 34, 44, 54, 64, 74,
 84, 94, 97, 87

INSTRUMENT TYPE AANDERAA RTC
 SERIAL NUMBER 407
 LATITUDE 44 31.94 N
 LONGITUDE 62 49.31 W
 WATER DEPTH (M) 102
 MOORING DATE ; CRUISE 28/11/1985 ; 85-040
 DURATION (DAYS) 128.00
 SAMPLE INTERVAL 60 MINUTES

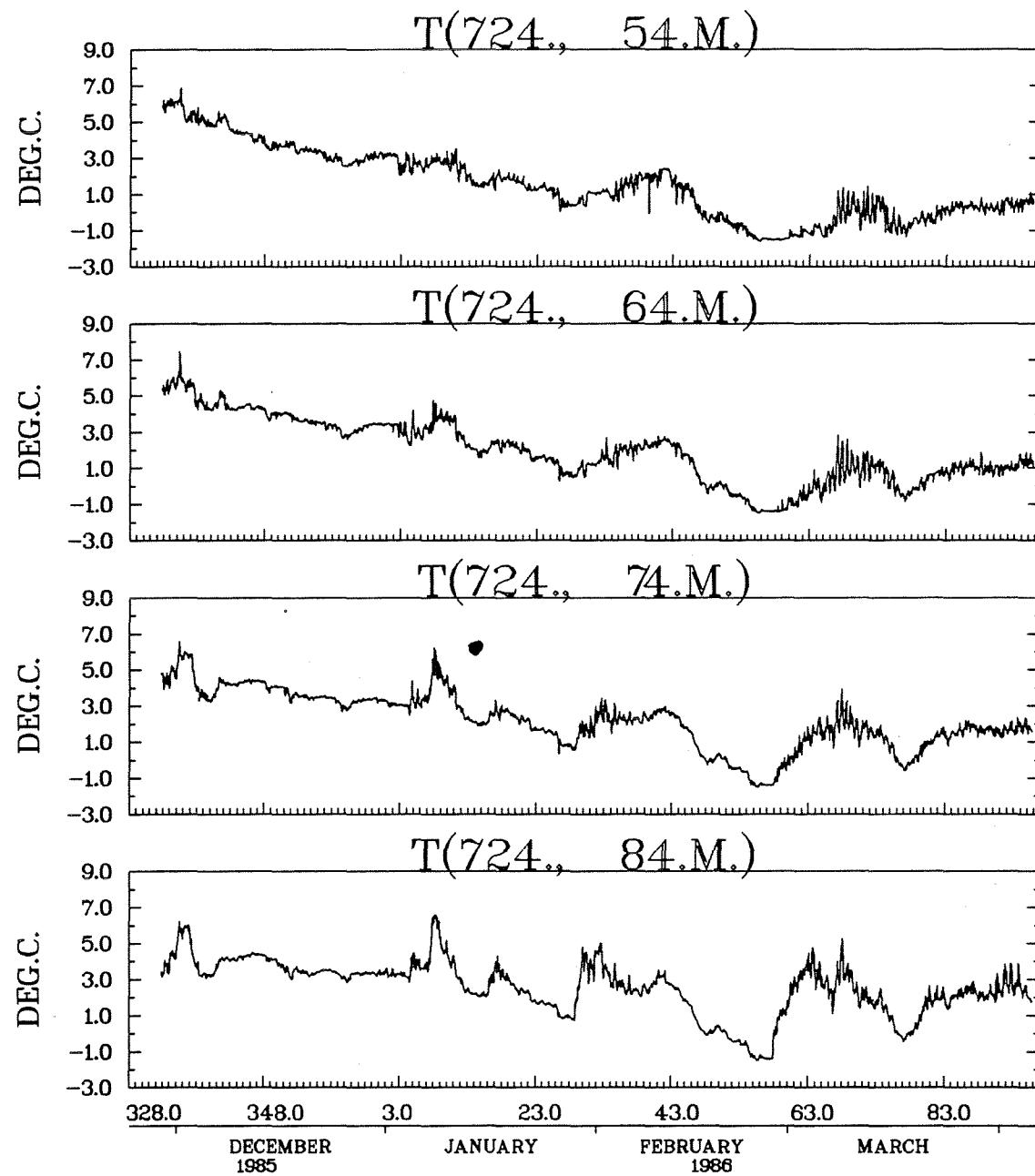
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG.C.)	1.168	-1.589	6.397	2.128	3072
TEMPERATURE(DEG.C.)	1.149	-1.544	6.420	2.133	3072
TEMPERATURE(DEG.C.)	1.175	-1.521	6.352	2.134	3072
TEMPERATURE(DEG.C.)	1.331	-1.476	6.624	2.068	3072
TEMPERATURE(DEG.C.)	1.529	-1.589	6.873	1.928	3072
TEMPERATURE(DEG.C.)	1.938	-1.476	7.442	1.764	3072
TEMPERATURE(DEG.C.)	2.206	-1.499	6.556	1.551	3072
TEMPERATURE(DEG.C.)	2.577	-1.476	6.578	1.489	3072
TEMPERATURE(DEG.C.)	2.869	-1.476	6.737	1.551	3072
TEMPERATURE(DEG.C.)	2.965	-1.476	6.805	1.581	3072
TEMPERATURE(DEG.C.)	2.677	-1.476	6.669	1.503	3072

COMMENTS

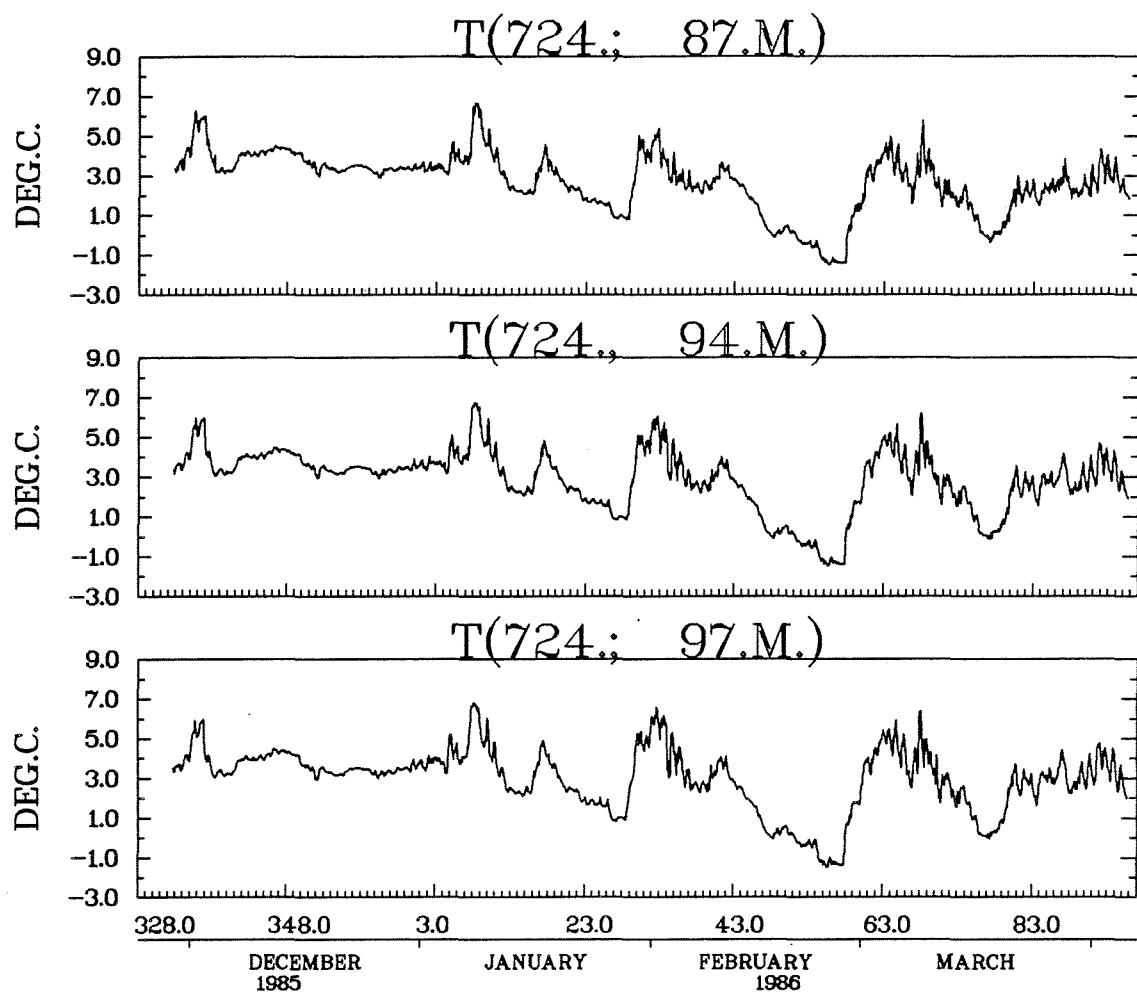
 LAST CHANNEL OUT OF ORDER IN DEPTH
 THERMISTOR CHAIN HAD TO BE WRAPPED BACK ON SHORTER WIRE
 (I.E. 100 M CHAIN ON 85M WIRE)



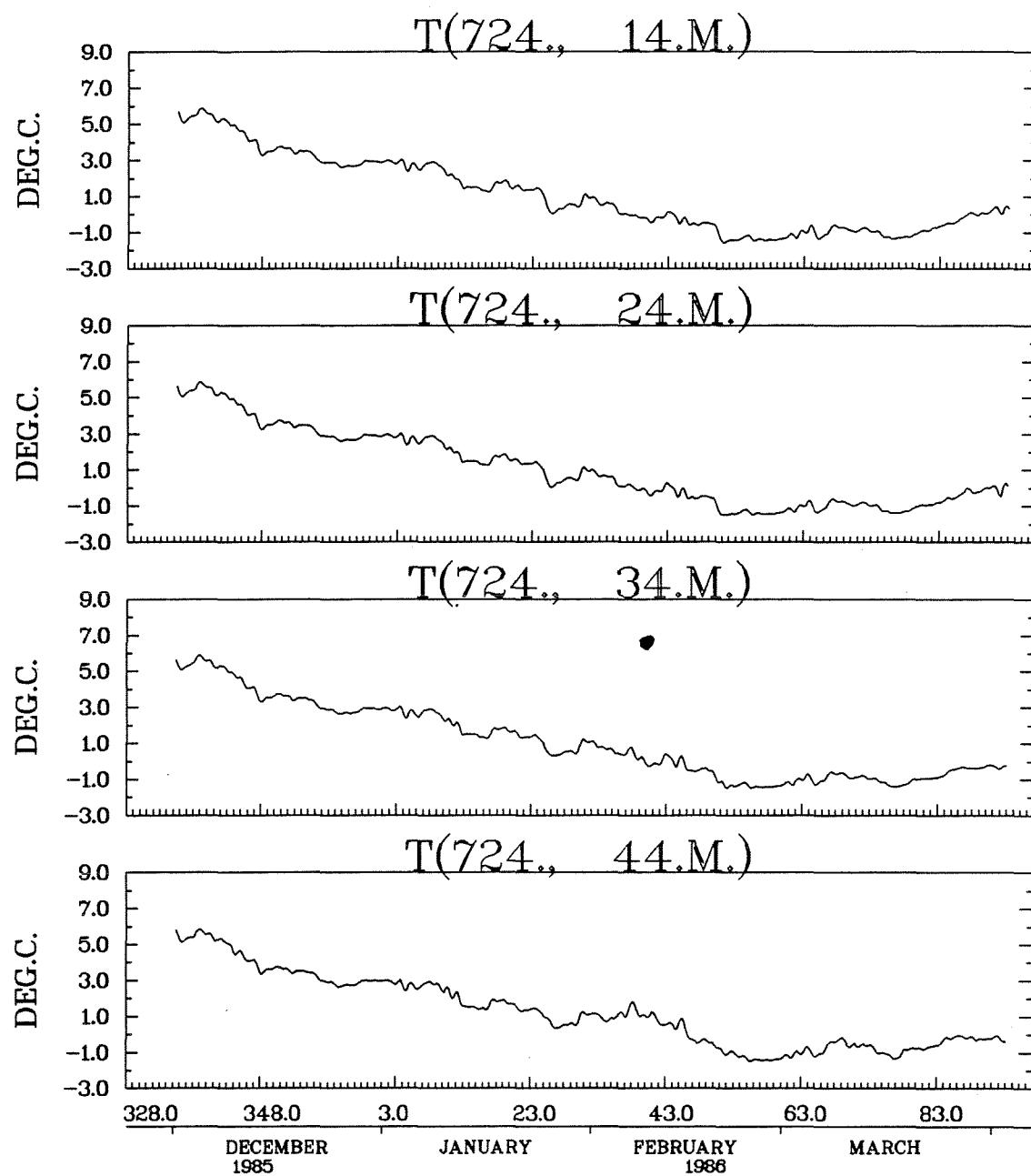
CASP S7 NOV. 28/1985 – APRIL 5/1986



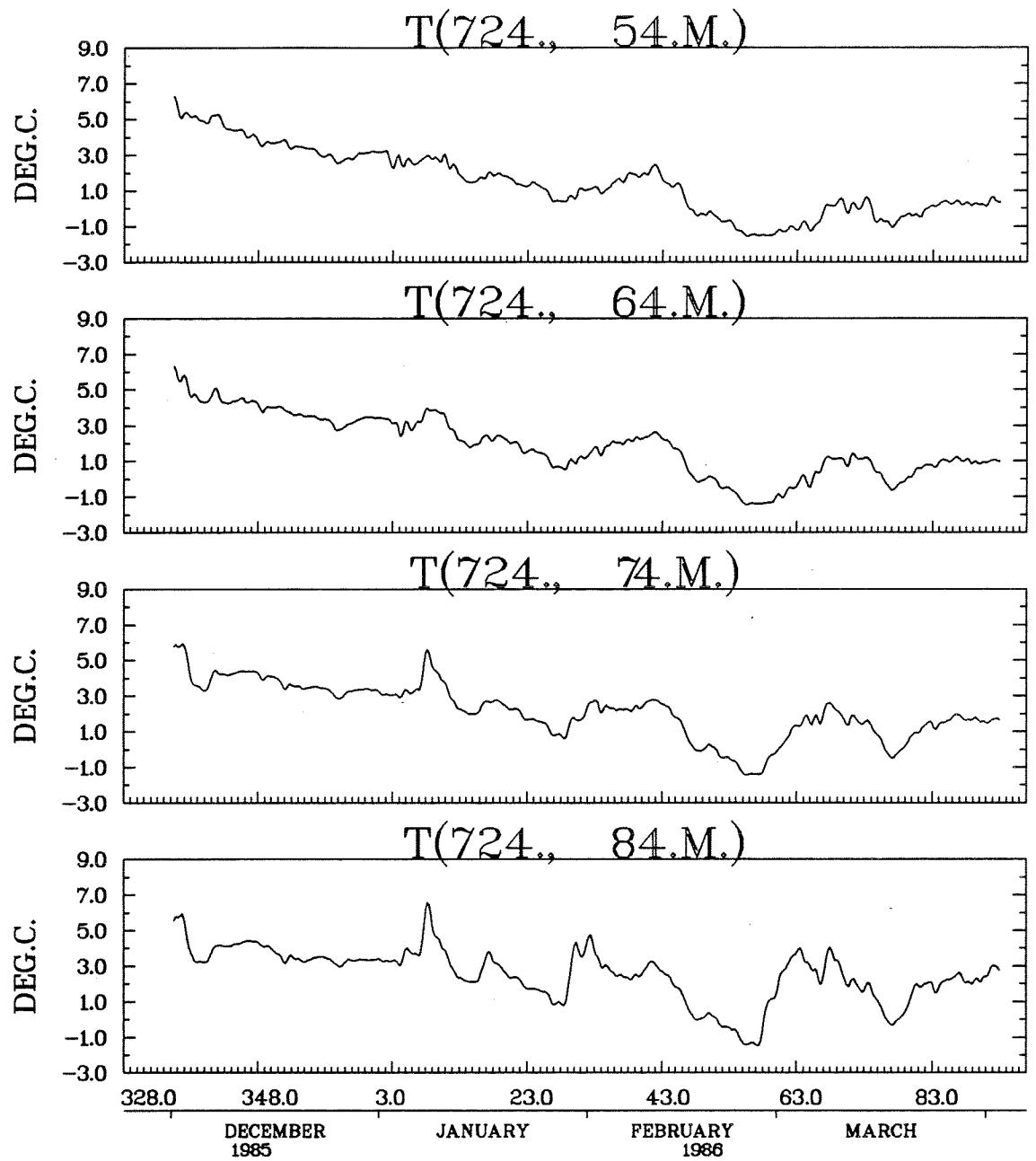
CASP S7 NOV. 28/1985 – APRIL 5/1986



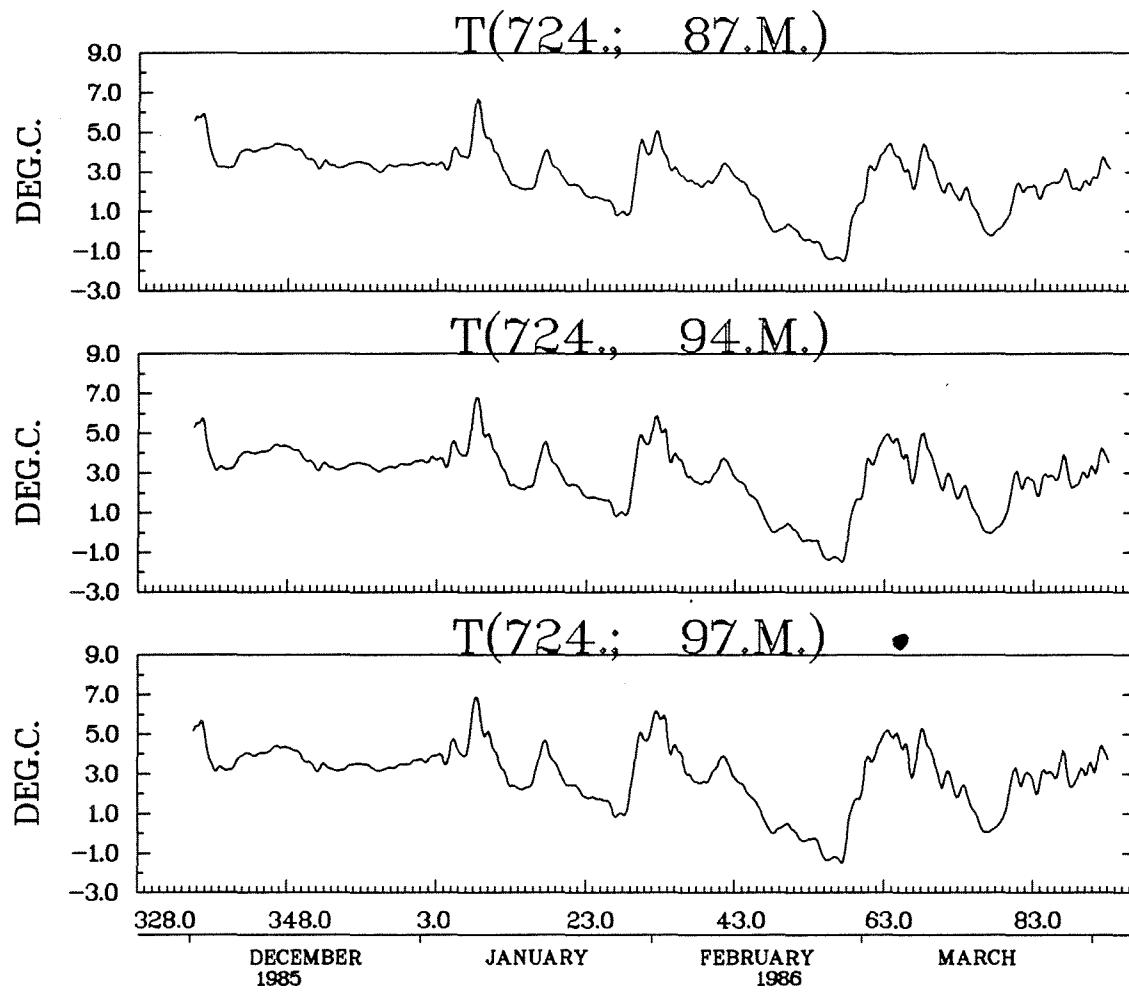
CASP S7 NOV. 24/1985 – APRIL 5/1986



CASP S7 NOV. 28/1985 – APRIL 5/1986



CASP S7 NOV. 28/1985 – APRIL 5/1986



CASP S7 NOV. 24/1985 – APRIL 5/1986

HISTOGRAM OF T(724., 14.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	18	.6	****
-1.50	-1.00	456	14.8	*****
-1.00	-.50	442	14.4	*****
-.50	0.00	273	8.9	*****
0.00	.50	310	10.1	*****
.50	1.00	176	5.7	*****
1.00	1.50	203	6.6	*****
1.50	2.00	147	4.8	*****
2.00	2.50	50	1.6	*****
2.50	3.00	427	13.9	*****
3.00	3.50	117	3.8	*****
3.50	4.00	107	3.5	*****
4.00	4.50	51	1.7	*****
4.50	5.00	43	1.4	*****
5.00	5.50	118	3.8	*****
5.50	6.00	98	3.2	*****
6.00	6.50	36	1.2	*****
6.50	7.00	0	0.0	
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

230

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 24.M.) DEG.C.

BAND .GE.	NUMBER .LT.	PER IN BAND	PER CENT
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-2.00	-1.50	13	.4 ***
-1.50	-1.00	467	15.2 *****
-1.00	-.50	456	14.8 *****
-.50	0.00	309	10.1 *****
0.00	.50	269	8.8 *****
.50	1.00	158	5.1 *****
1.00	1.50	215	7.0 *****
1.50	2.00	131	4.3 *****
2.00	2.50	64	2.1 *****
2.50	3.00	423	13.8 *****
3.00	3.50	120	3.9 *****
3.50	4.00	102	3.3 *****
4.00	4.50	50	1.6 *****
4.50	5.00	47	1.5 *****
5.00	5.50	120	3.9 *****
5.50	6.00	94	3.1 *****
6.00	6.50	34	1.1 *****
6.50	7.00	0	0.0
7.00	7.50	0	0.0
7.50	8.00	0	0.0

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 34.M.) DEG.C.

BAND	NUMBER	PER
.GE.	.LT.	IN BAND CENT

-2.00	-1.50	2	.1	*
-1.50	-1.00	453	14.7	*****
-1.00	-.50	444	14.5	*****
-.50	0.00	369	12.0	*****
0.00	.50	216	7.0	*****
.50	1.00	147	4.8	*****
1.00	1.50	223	7.3	*****
1.50	2.00	159	5.2	*****
2.00	2.50	63	2.1	*****
2.50	3.00	419	13.6	*****
3.00	3.50	114	3.7	*****
3.50	4.00	116	3.8	*****
4.00	4.50	49	1.6	*****
4.50	5.00	45	1.5	*****
5.00	5.50	118	3.8	*****
5.50	6.00	105	3.4	*****
6.00	6.50	30	1.0	*****
6.50	7.00	0	0.0	
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

232

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 44.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	362	11.8
-1.00	-.50	388	12.6
-.50	0.00	378	12.3
0.00	.50	167	5.4
.50	1.00	207	6.7
1.00	1.50	275	9.0
1.50	2.00	213	6.9
2.00	2.50	72	2.3
2.50	3.00	393	12.8
3.00	3.50	130	4.2
3.50	4.00	136	4.4
4.00	4.50	61	2.0
4.50	5.00	33	1.1
5.00	5.50	117	3.8
5.50	6.00	108	3.5
6.00	6.50	28	.9
6.50	7.00	4	.1
7.00	7.50	0	0.0
7.50	8.00	0	0.0

233

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 54.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	50	1.6	*****
-1.50	-1.00	229	7.5	*****
-1.00	-.50	237	7.7	*****
-.50	0.00	228	7.4	*****
0.00	.50	366	11.9	*****
.50	1.00	222	7.2	*****
1.00	1.50	296	9.6	*****
1.50	2.00	267	8.7	*****
2.00	2.50	174	5.7	*****
2.50	3.00	269	8.8	*****
3.00	3.50	254	8.3	*****
3.50	4.00	132	4.3	*****
4.00	4.50	96	3.1	*****
4.50	5.00	67	2.2	*****
5.00	5.50	97	3.2	*****
5.50	6.00	44	1.4	*****
6.00	6.50	42	1.4	*****
6.50	7.00	2	.1	*
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

234

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 64.M.) DEG.C.

BAND .GE.	NUMBER .LT.	PER IN BAND	PER CENT
--------------	----------------	----------------	-------------

-2.00	-1.50	0	0.0
-1.50	-1.00	148	4.8 *****
-1.00	-.50	122	4.0 *****
-.50	0.00	198	6.4 *****
0.00	.50	164	5.3 *****
.50	1.00	339	11.0 *****
1.00	1.50	392	12.8 *****
1.50	2.00	252	8.2 *****
2.00	2.50	348	11.3 *****
2.50	3.00	179	5.8 *****
3.00	3.50	273	8.9 *****
3.50	4.00	216	7.0 *****
4.00	4.50	247	8.0 *****
4.50	5.00	60	2.0 *****
5.00	5.50	49	1.6 *****
5.50	6.00	71	2.3 *****
6.00	6.50	12	.4 ***
6.50	7.00	0	0.0
7.00	7.50	2	.1 *
7.50	8.00	0	0.0

235

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 74.M.) DEG.C.

BAND	NUMBER	PER
.GE.	.LT.	IN BAND CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	96	3.1
-1.00	-.50	59	1.9
-.50	0.00	154	5.0
0.00	.50	137	4.5
.50	1.00	163	5.3
1.00	1.50	278	9.0
1.50	2.00	489	15.9
2.00	2.50	405	13.2
2.50	3.00	269	8.8
3.00	3.50	417	13.6
3.50	4.00	184	6.0
4.00	4.50	279	9.1
4.50	5.00	61	2.0
5.00	5.50	22	.7
5.50	6.00	51	1.7
6.00	6.50	7	.2
6.50	7.00	1	.0
7.00	7.50	0	0.0
7.50	8.00	0	0.0

236

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724., 84.M.) DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	84	2.7	*****
-1.00	-.50	26	.8	***
-.50	0.00	114	3.7	*****
0.00	.50	135	4.4	*****
.50	1.00	114	3.7	*****
1.00	1.50	97	3.2	*****
1.50	2.00	298	9.7	*****
2.00	2.50	482	15.7	*****
2.50	3.00	321	10.4	*****
3.00	3.50	654	21.3	*****
3.50	4.00	286	9.3	*****
4.00	4.50	318	10.4	*****
4.50	5.00	54	1.8	*****
5.00	5.50	20	.7	**
5.50	6.00	44	1.4	*****
6.00	6.50	19	.6	**
6.50	7.00	6	.2	*
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724.; 87.M.) DEG.C.

BAND .GE.	NUMBER .LT.	PER IN BAND	CENT
-2.00	-1.50	0	0.0
-1.50	-1.00	82	2.7 *****
-1.00	-.50	26	.8 ****
-.50	0.00	99	3.2 *****
0.00	.50	145	4.7 *****
.50	1.00	107	3.5 *****
1.00	1.50	74	2.4 *****
1.50	2.00	251	8.2 *****
2.00	2.50	447	14.6 *****
2.50	3.00	321	10.4 *****
3.00	3.50	648	21.1 *****
3.50	4.00	352	11.5 *****
4.00	4.50	342	11.1 *****
4.50	5.00	79	2.6 *****
5.00	5.50	32	1.0 *****
5.50	6.00	38	1.2 ***
6.00	6.50	19	.6 ***
6.50	7.00	10	.3 **
7.00	7.50	0	0.0
7.50	8.00	0	0.0

TOTAL NO. OF SAMPLES 3072
 OUTSIDE RANGE 0

HISTOGRAM OF T(724., 94.M.) DEG.C.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	82	2.7	*****
-1.00	-.50	17	.6	***
-.50	0.00	80	2.6	*****
0.00	.50	152	4.9	*****
.50	1.00	93	3.0	*****
1.00	1.50	66	2.1	*****
1.50	2.00	214	7.0	*****
2.00	2.50	337	11.0	*****
2.50	3.00	316	10.3	*****
3.00	3.50	599	19.5	*****
3.50	4.00	438	14.3	*****
4.00	4.50	383	12.5	*****
4.50	5.00	134	4.4	*****
5.00	5.50	68	2.2	*****
5.50	6.00	58	1.9	*****
6.00	6.50	17	.6	***
6.50	7.00	18	.6	***
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

239

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

HISTOGRAM OF T(724.; 97.M.) DEG.C.

BAND	NUMBER	PER	
GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	80	2.6 *****
-1.00	-.50	10	.3 **
-.50	0.00	83	2.7 *****
0.00	.50	146	4.8 *****
.50	1.00	93	3.0 *****
1.00	1.50	65	2.1 *****
1.50	2.00	207	6.7 *****
2.00	2.50	264	8.6 *****
2.50	3.00	302	9.8 *****
3.00	3.50	616	20.1 *****
3.50	4.00	483	15.7 *****
4.00	4.50	371	12.1 *****
4.50	5.00	136	4.4 *****
5.00	5.50	97	3.2 *****
5.50	6.00	65	2.1 *****
6.00	6.50	31	1.0 ****
6.50	7.00	23	.7 ***
7.00	7.50	0	0.0
7.50	8.00	0	0.0

240

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

MOORING 724
DEPTH (M) 25

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 4271
LATITUDE 44 31.85 N
LONGITUDE 62 49.47 W
WATER DEPTH (M) 95
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 128.00
SAMPLE INTERVAL 30 MINUTES

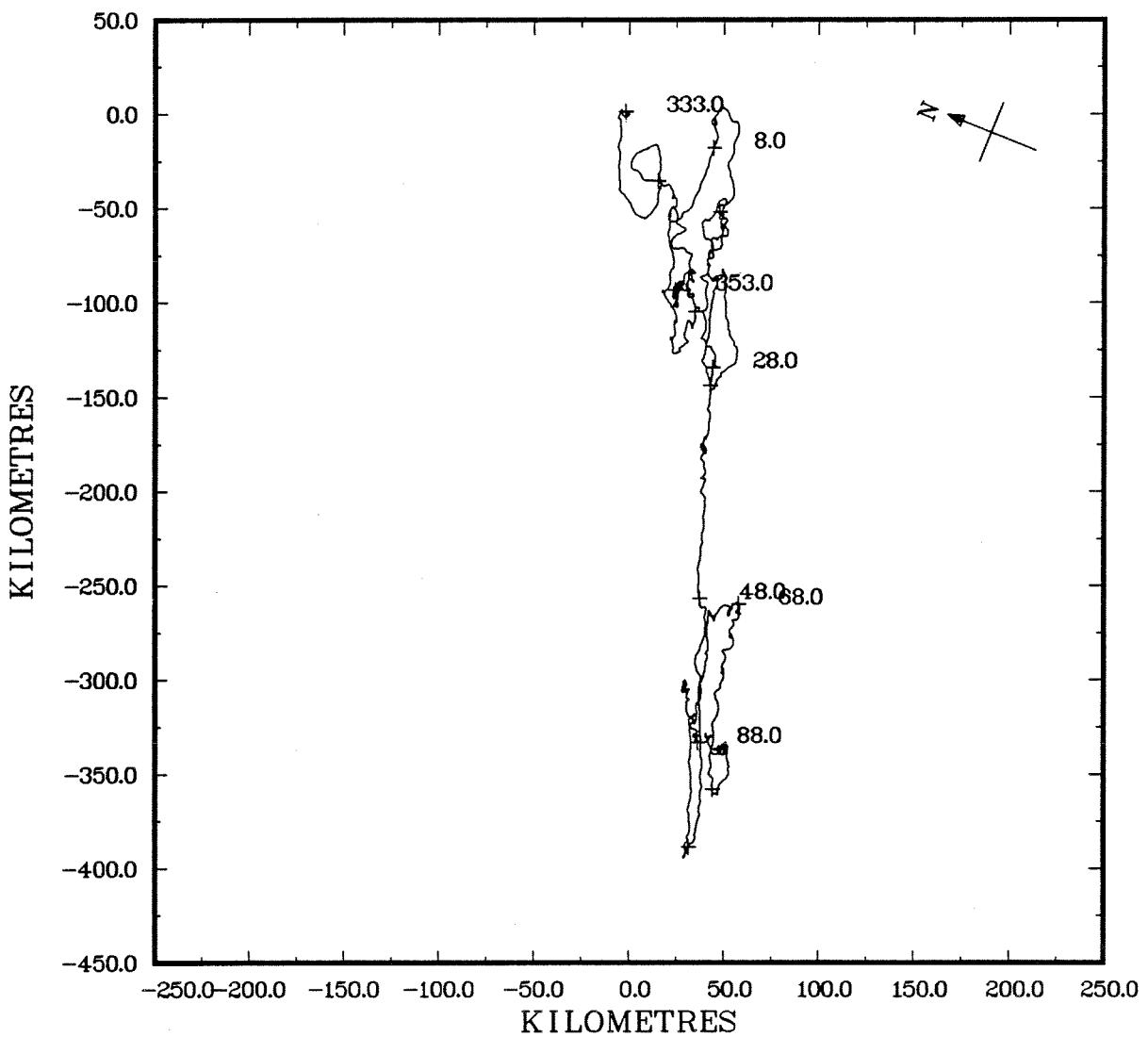
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.169	.042	.590	.072	6144
U(158° T) COMP VEL(M/S)	.002	-.341	.329	.087	6144
V(68° T) COMP VEL(M/S)	-.027	-.475	.563	.160	6144
TEMPERATURE(DEG.C.)	1.290	-1.496	6.451	2.107	6143
SALINITY	31.314	30.617	31.883	.225	6143
SIGMA-T(KG/M**3)	25.036	24.048	25.482	.294	6143

COMMENTS

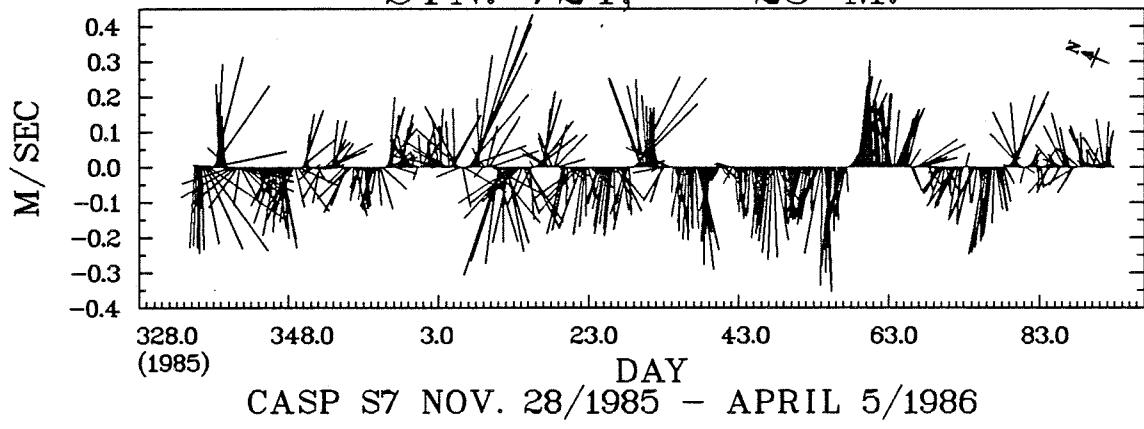
TEMPERATURE AND SALINITY NOISY

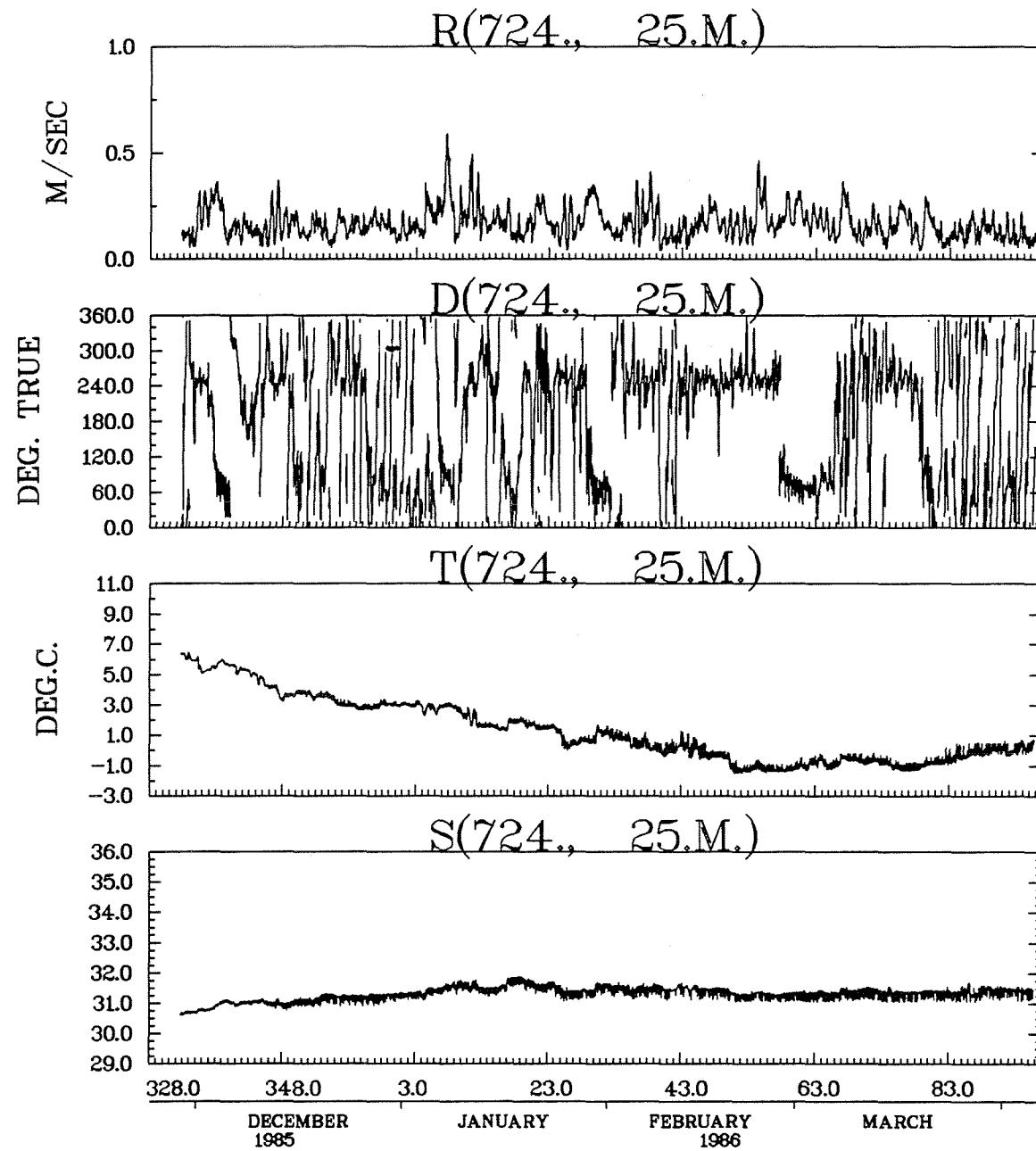
TEMPERATURE AND SALINITY MAY NOT BE OF MUCH USE (HEAVILY EDITED)

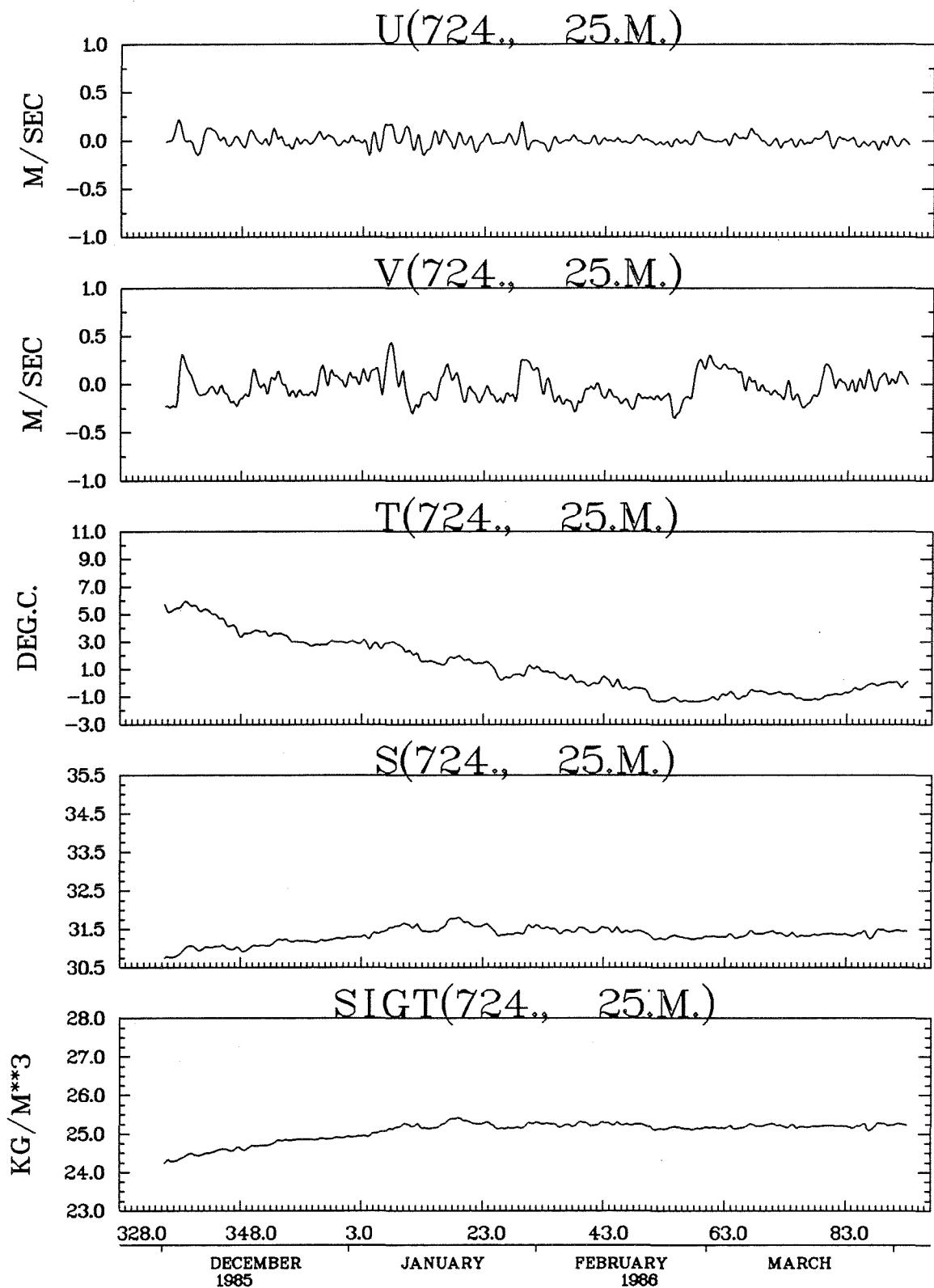
STN. 724, 25 M.



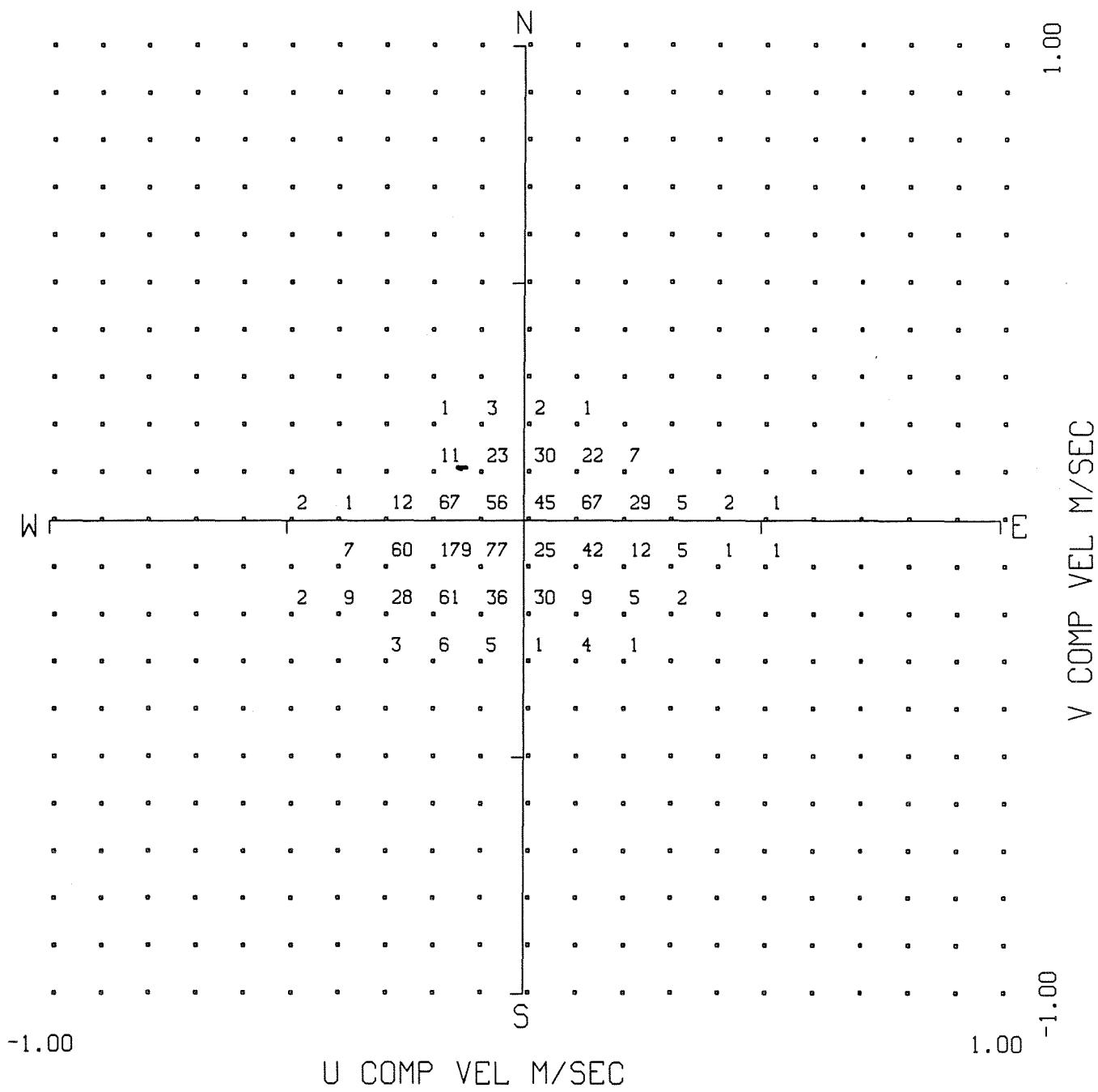
STN. 724, 25 M.



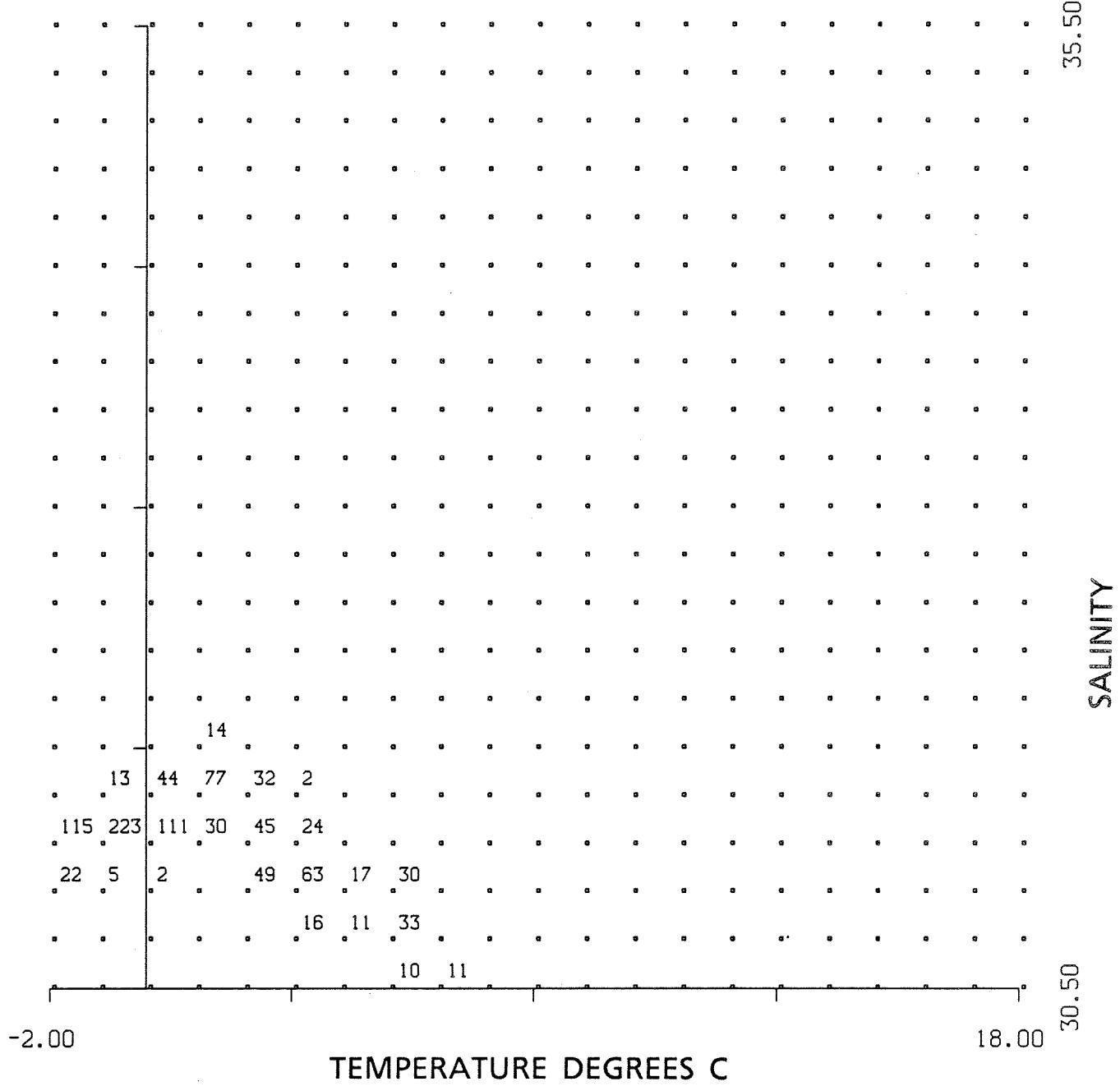




CASP S7 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 724 DEPTH 25 M.
 START TIME 28/11/ 85 18:59:55.5 GMT
 FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

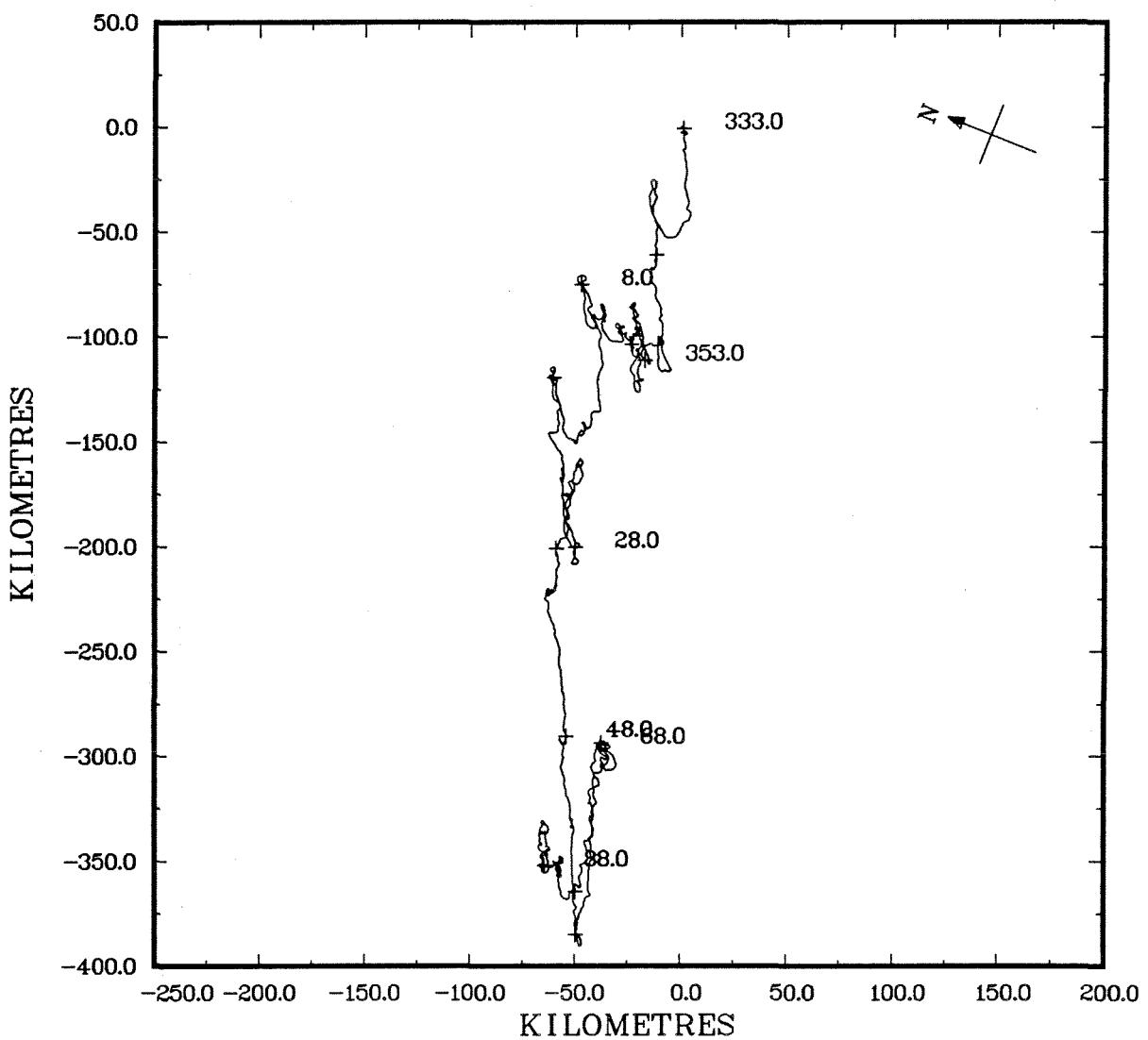
FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 724 DEPTH 25 M.
START TIME 28/11/ 85 18:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 724
DEPTH (M) 65

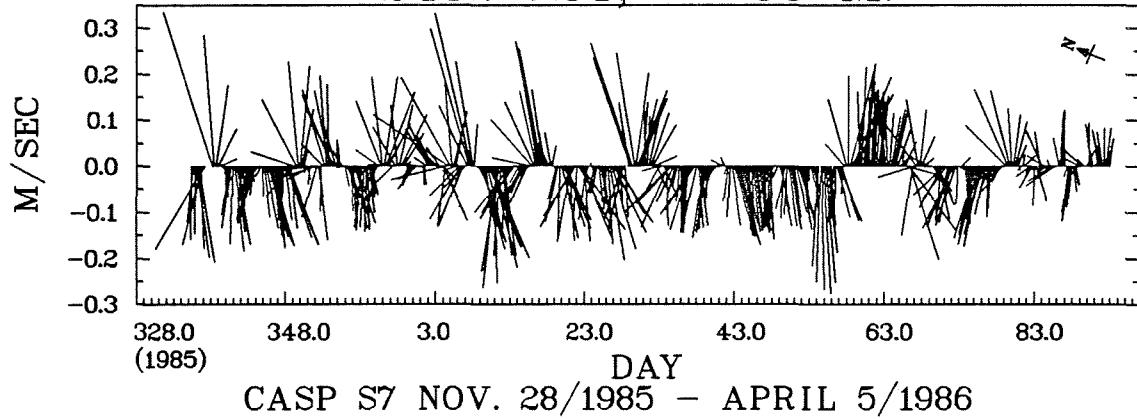
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 3392
LATITUDE 44 31.85 N
LONGITUDE 62 49.47 W
WATER DEPTH (M) 95
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 128.00
SAMPLE INTERVAL 30 MINUTES

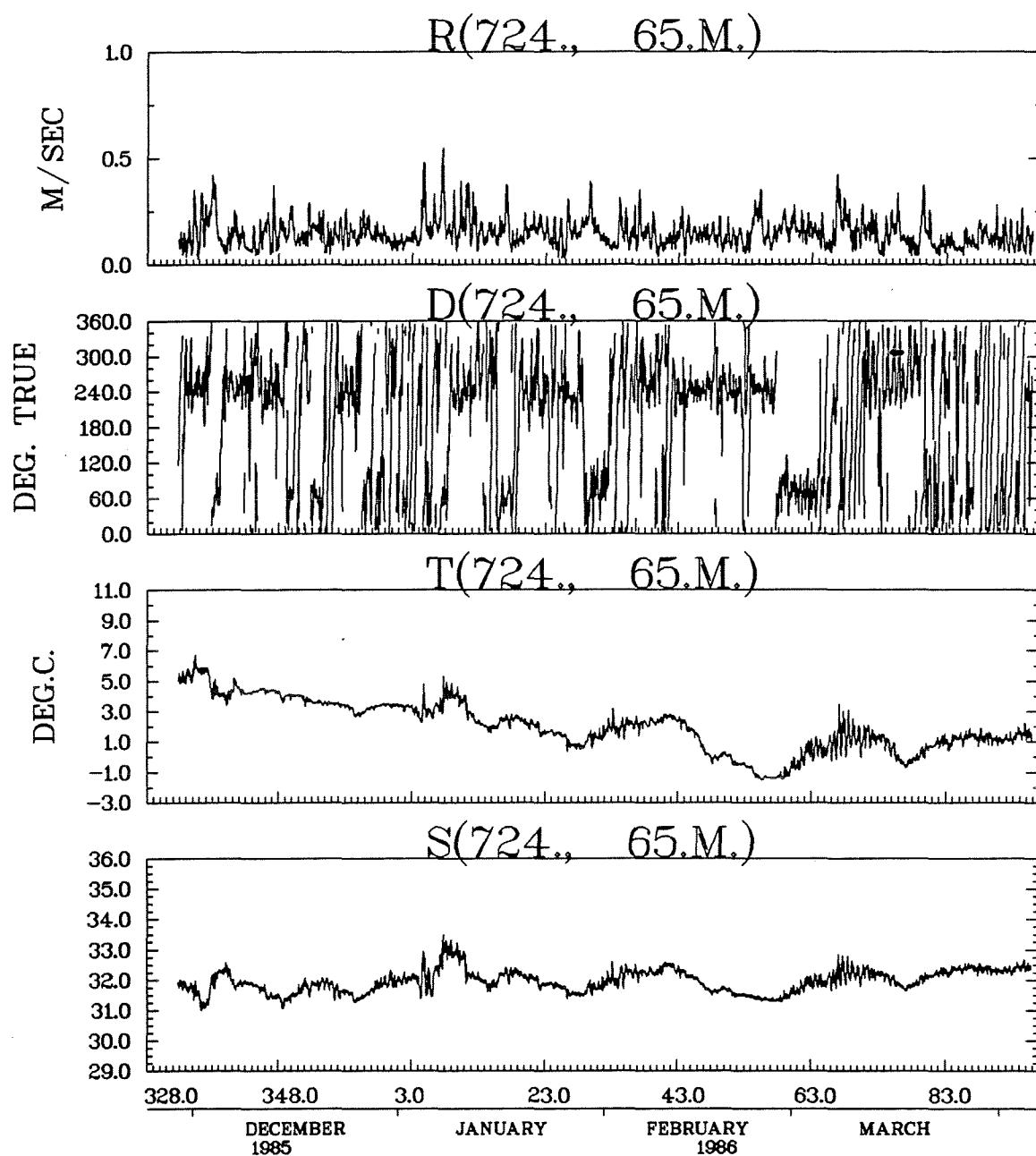
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.149	.030	.549	.066	6144
U(158° T) COMP VEL(M/S)	-.006	-.477	.249	.079	6144
V(68° T) COMP VEL(M/S)	-.031	-.392	.548	.139	6144
TEMPERATURE(DEG.C.)	2.035	-1.510	6.711	1.673	6144
SALINITY	31.954	30.999	33.490	.371	6144
SIGMA-T(KG/M**3)	25.511	24.461	26.510	.315	6144

STN. 724, 65 M.

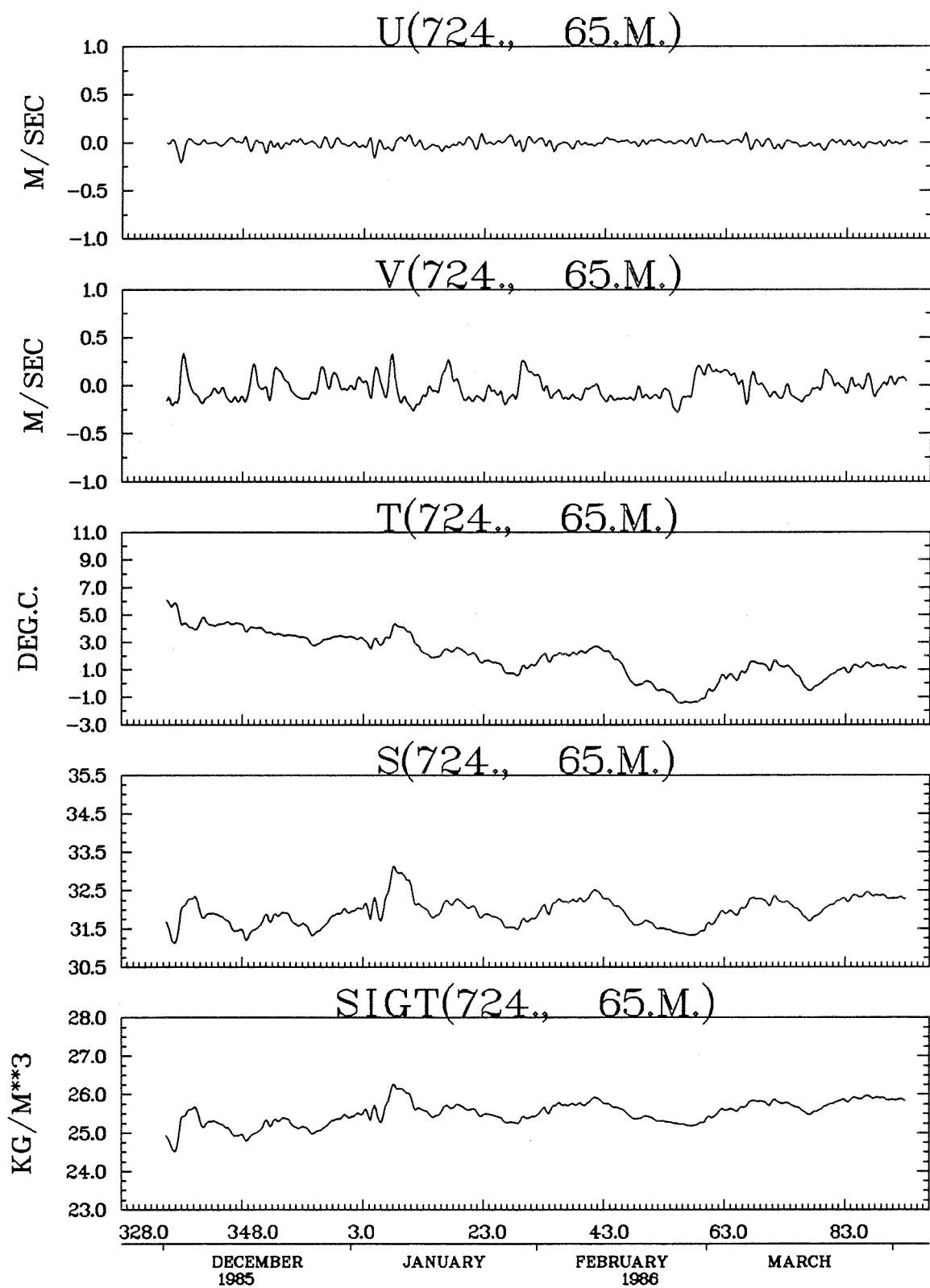


STN. 724, 65 M.

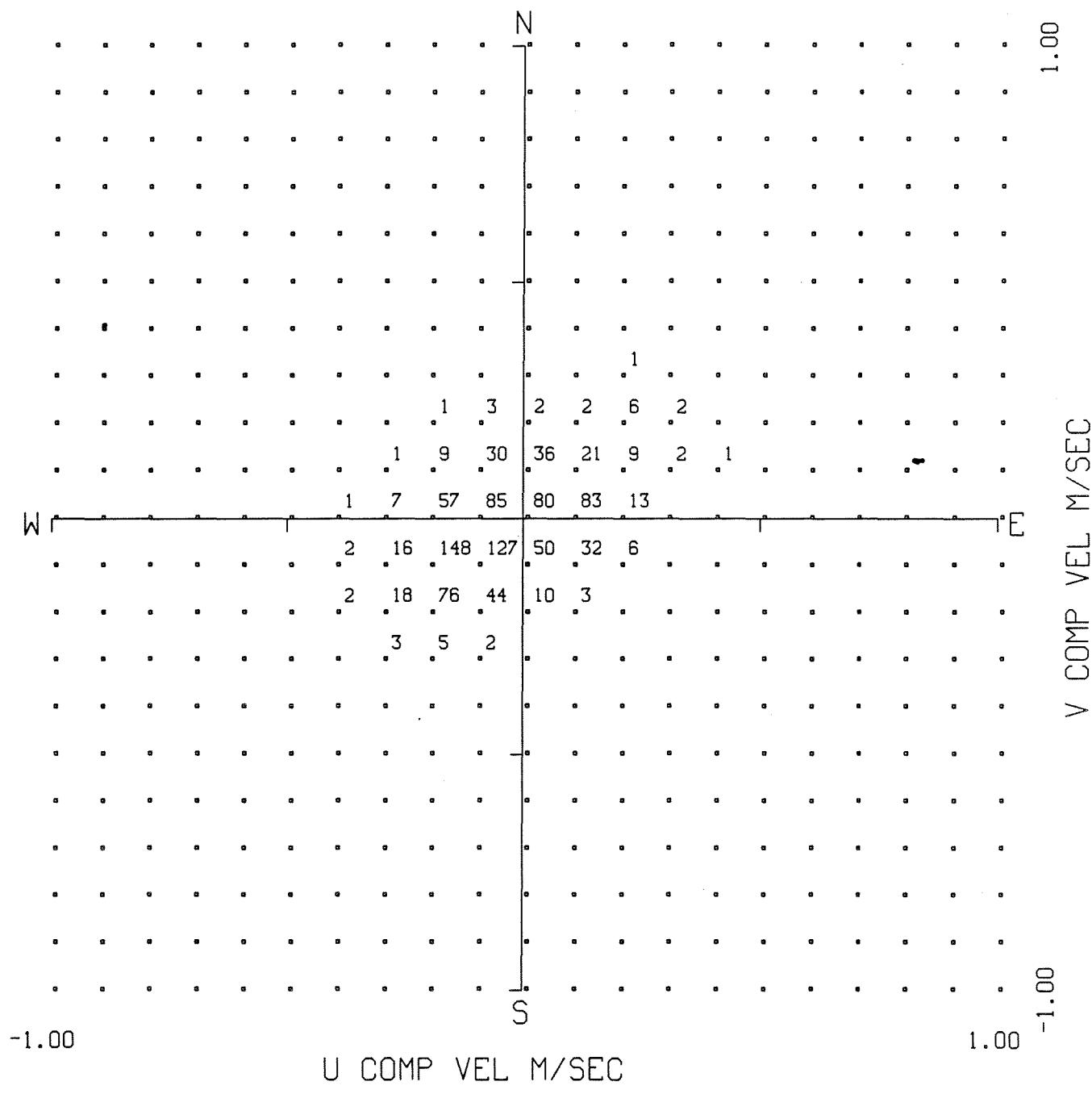




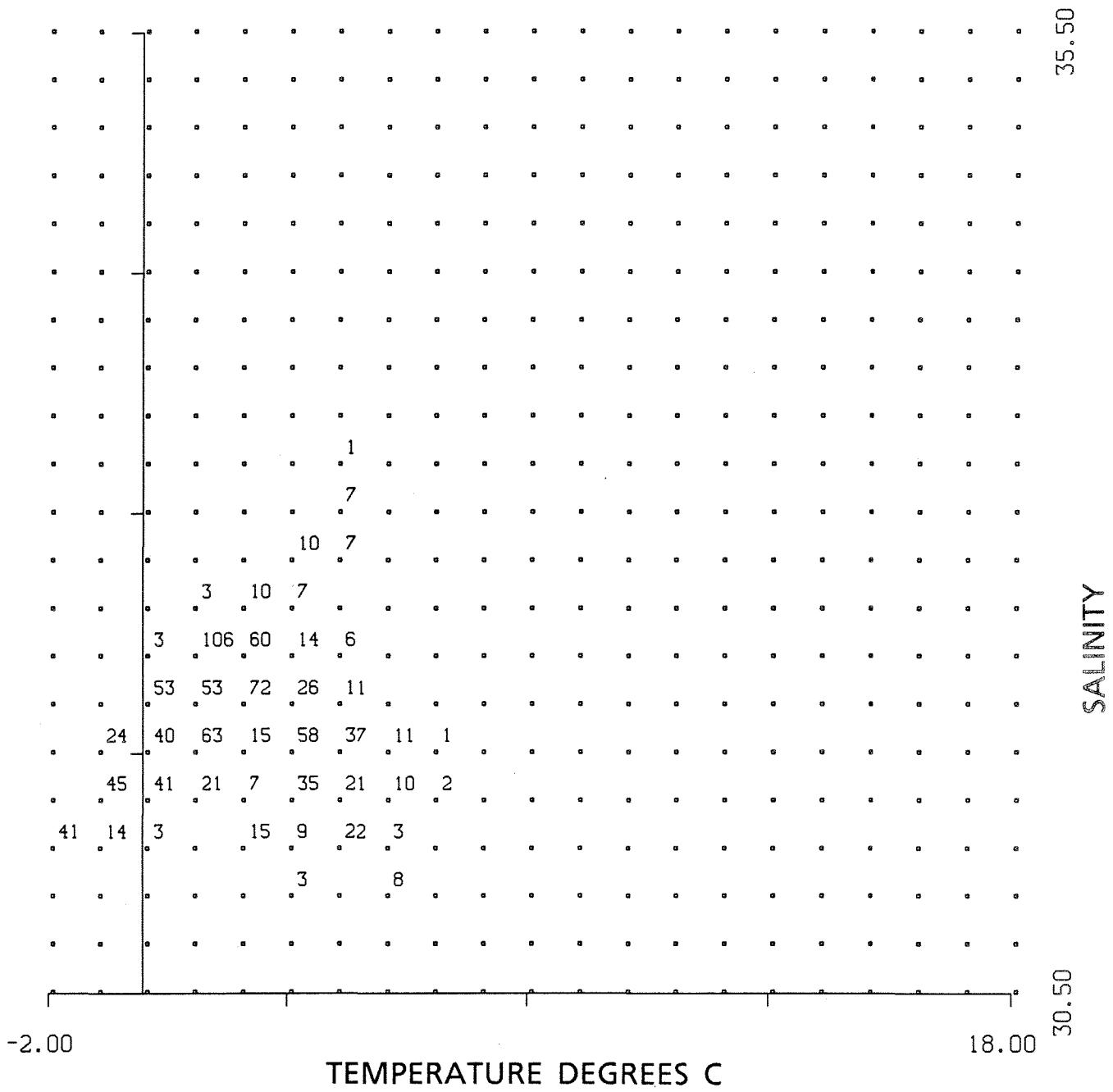
CASP S7 NOV. 28/1985 – APRIL 5/1986



CASP S7 NOV. 28/1985 – APRIL 5/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 724 DEPTH 65 M.
 START TIME 28/11/ 85 18:59:55.5 GMT
 FREQUENCY UNIT 0.1%

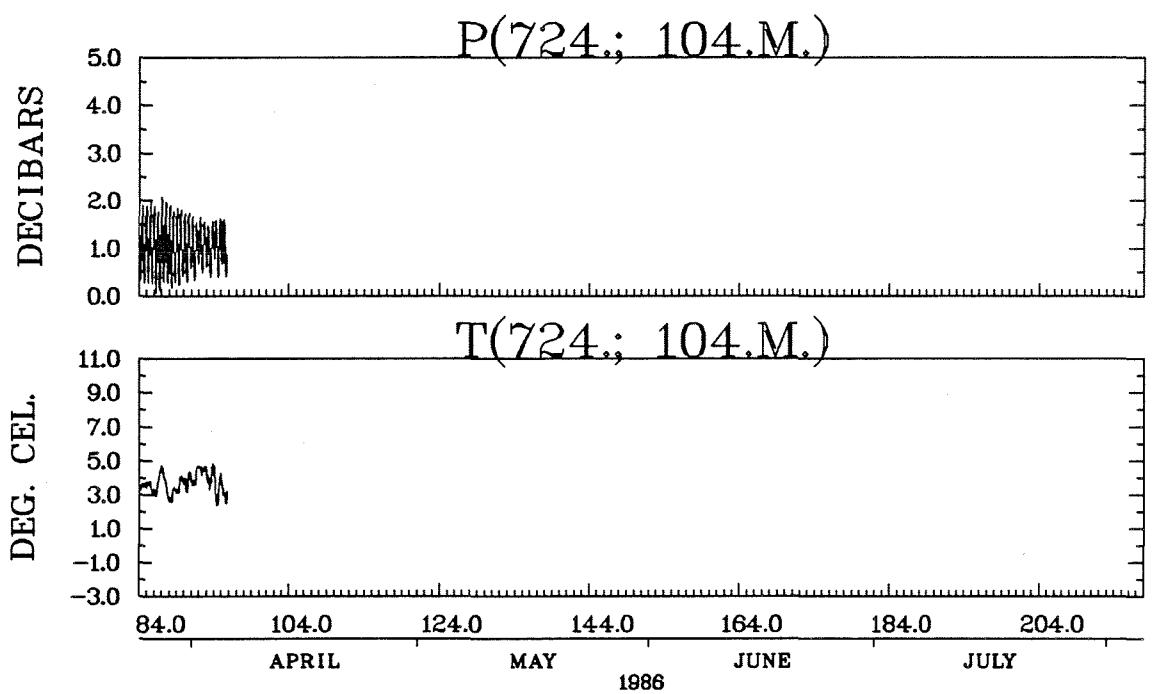
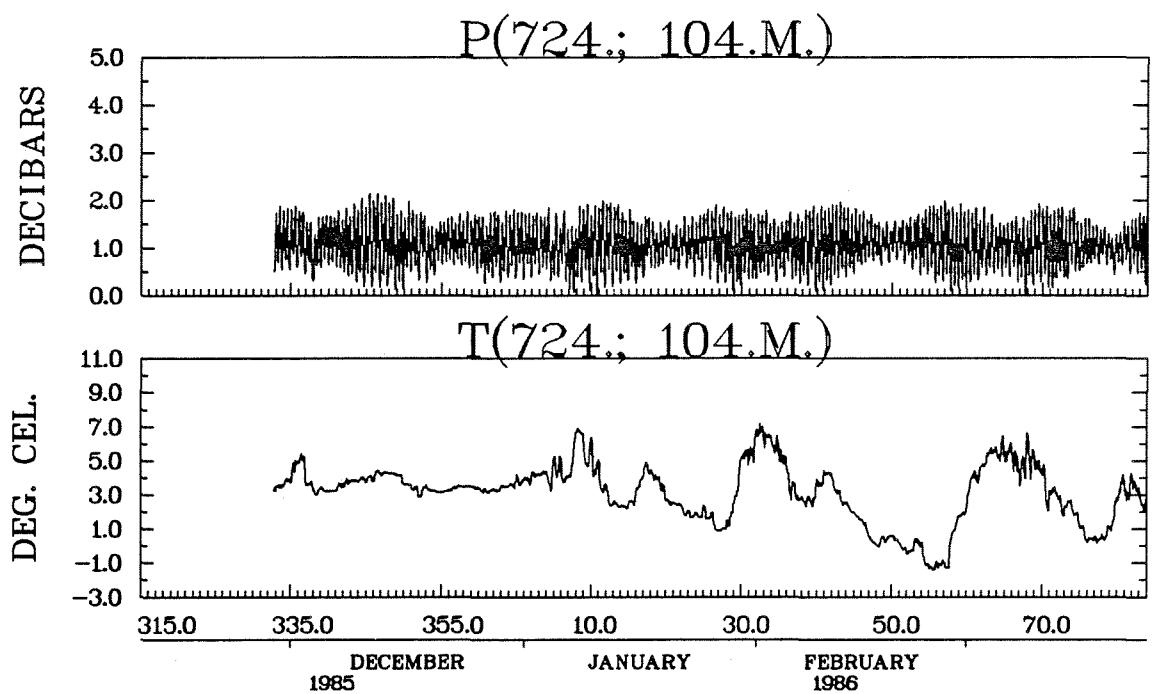


FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 724 DEPTH 65 M.
 START TIME 28/11/ 85 18:59:55.5 GMT
 FREQUENCY UNIT 0.1%

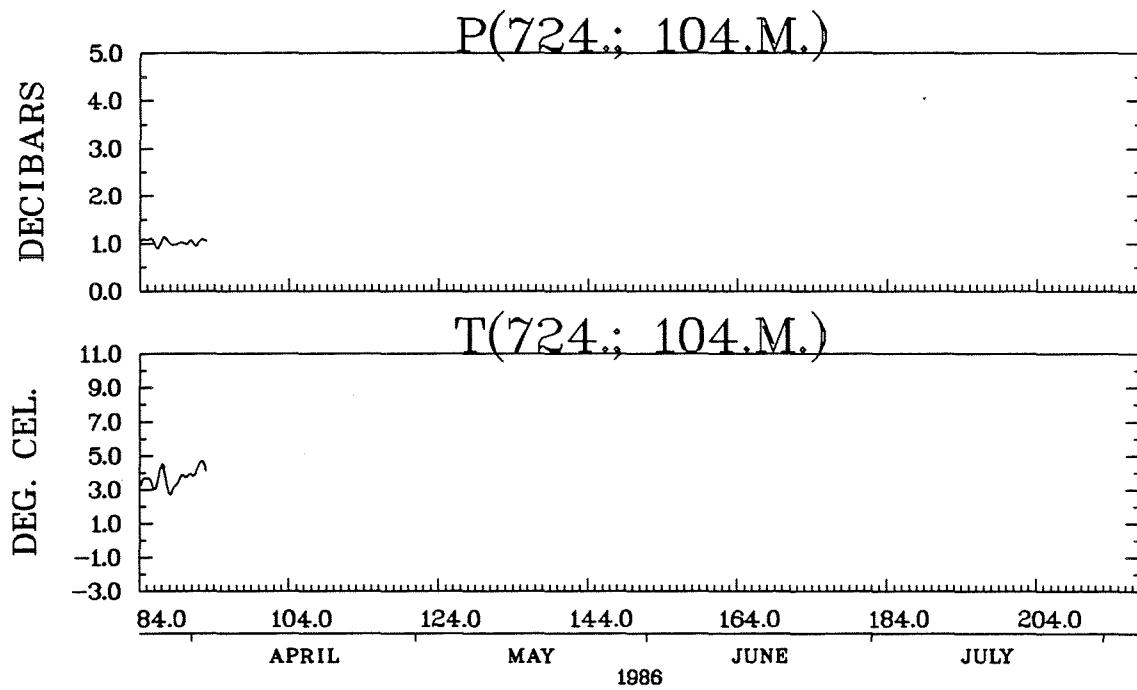
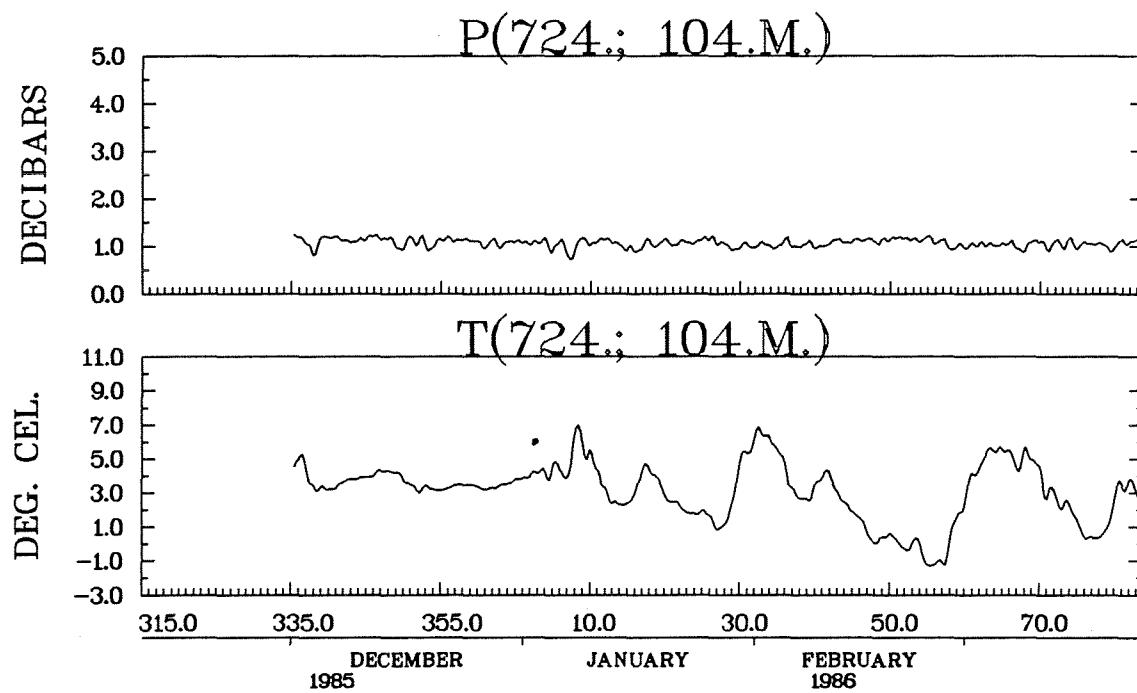
MOORING 724
DEPTH (M) 104

INSTRUMENT TYPE TIDE GAUGE WLRS
SERIAL NUMBER 224
LATITUDE 44 31.97 N
LONGITUDE 62 49.31 W
WATER DEPTH (M) 104
MOORING DATE ; CRUISE 28/11/1985 ; 85-040
DURATION (DAYS) 128.00
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	3.171	-1.410	7.170	1.642	3072
PRESSURE(DECIBARS)	1.071	.000	2.130	.457	3072



CASP S7 NOV. 28/1985 – APRIL 5/1986



CASP S7 NOV. 28/1985 – APRIL 5/1986

HISTOGRAM OF T(724.; 104.M.) DEG. CEL.

BAND	NUMBER	PER
.GE.	.LT.	IN BAND CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	66	2.1 *****
-1.00	-.50	19	.6 ***
-.50	0.00	54	1.8 *****
0.00	.50	156	5.1 *****
.50	1.00	85	2.8 *****
1.00	1.50	87	2.8 *****
1.50	2.00	183	6.0 *****
2.00	2.50	174	5.7 *****
2.50	3.00	249	8.1 *****
3.00	3.50	620	20.2 *****
3.50	4.00	481	15.7 *****
4.00	4.50	384	12.5 *****
4.50	5.00	176	5.7 *****
5.00	5.50	150	4.9 *****
5.50	6.00	80	2.6 *****
6.00	6.50	57	1.9 *****
6.50	7.00	49	1.6 *****
7.00	7.50	2	.1 *
7.50	8.00	0	0.0

256

TOTAL NO. OF SAMPLES 3072

OUTSIDE RANGE 0

MOORING 725
DEPTH (M) 4

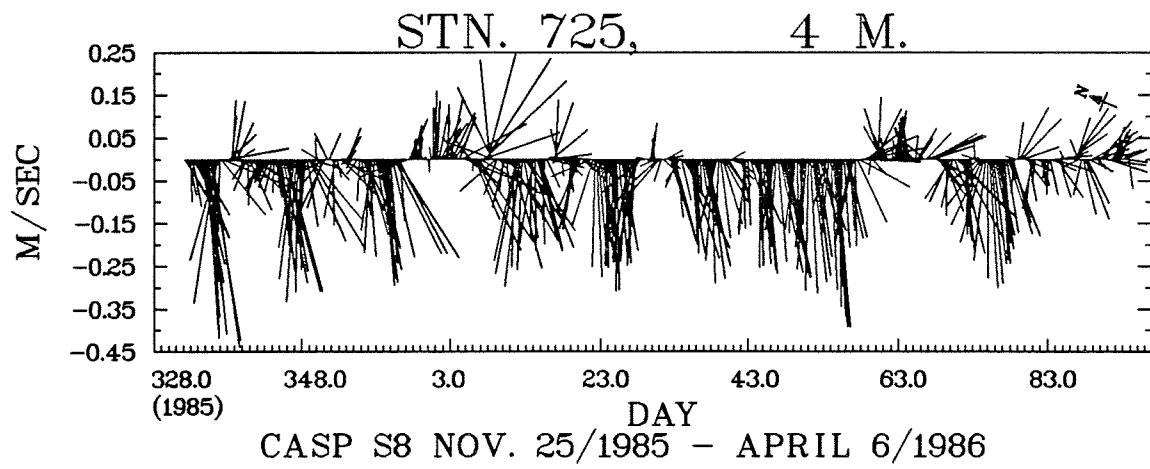
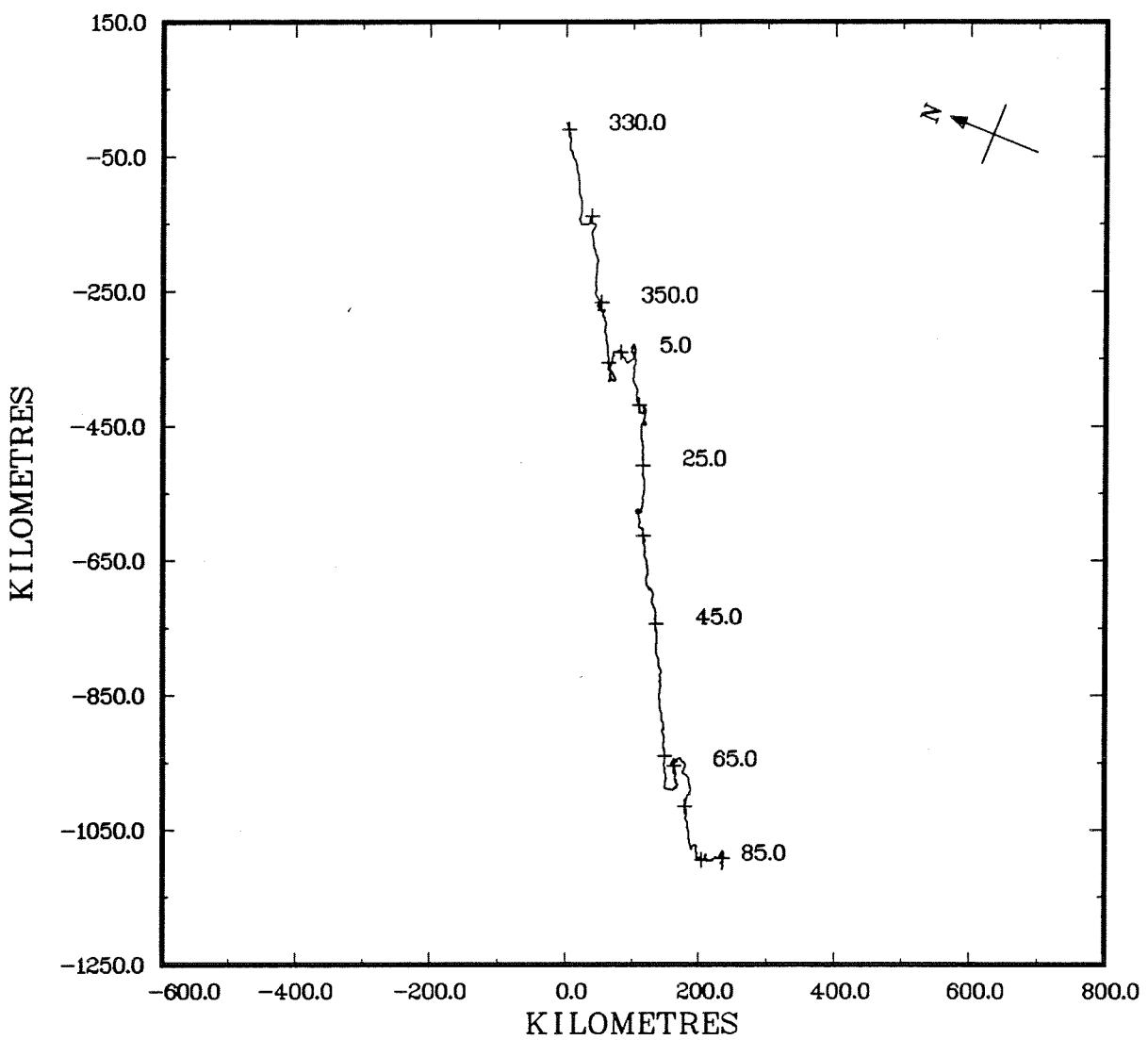
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5359
LATITUDE 44 35.77 N
LONGITUDE 62 31.38 W
WATER DEPTH (M) 93
MOORING DATE ; CRUISE 25/11/1985 ; 85-040
DURATION (DAYS) 131.98
SAMPLE INTERVAL 30 MINUTES

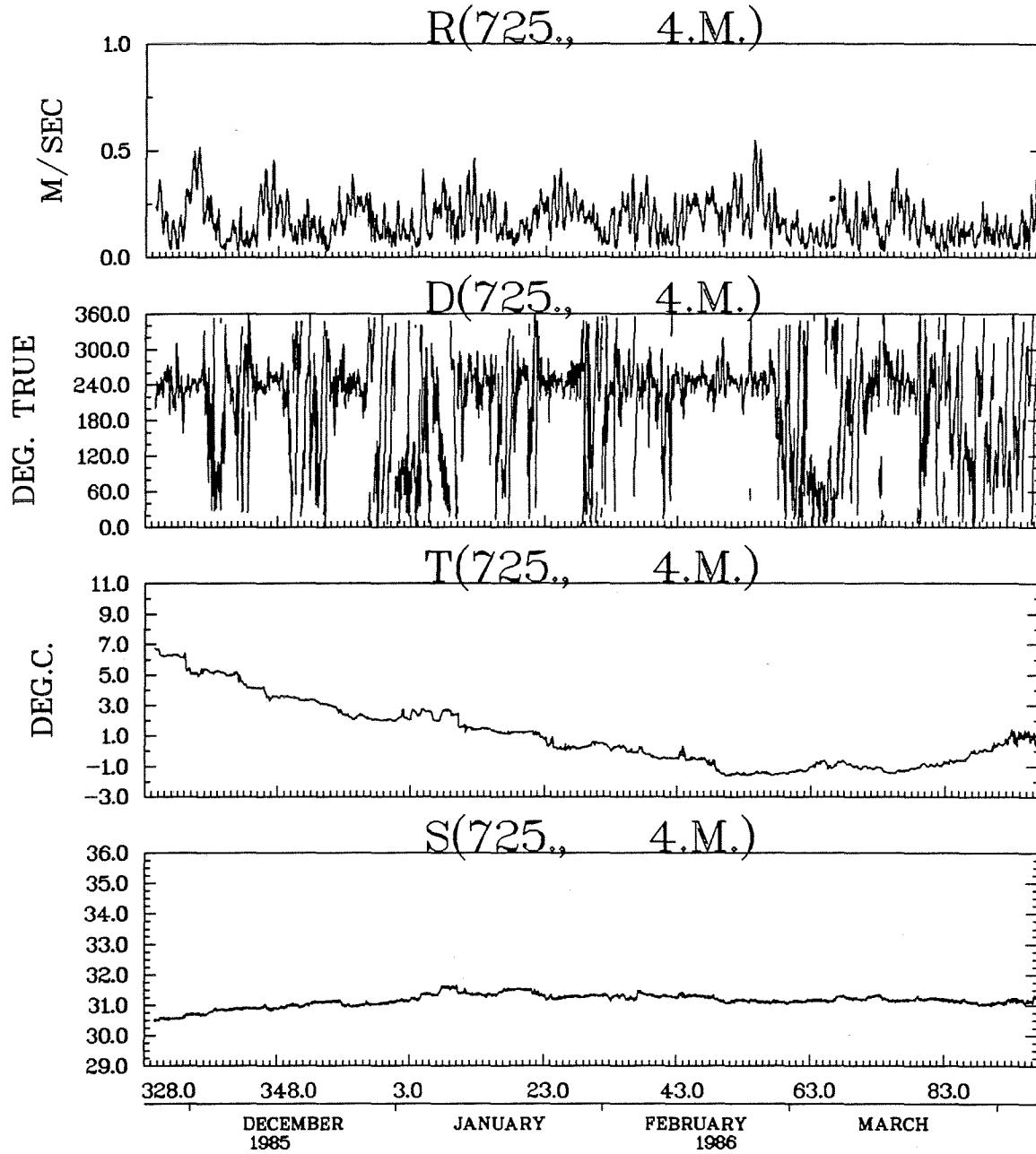
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.173	.026	.548	.092	6335
U(158° T) COMP VEL(M/S)	.021	-.354	.410	.080	6335
V(68° T) COMP VEL(M/S)	-.097	-.547	.365	.149	6335
TEMPERATURE(DEG.C.)	1.081	-1.649	6.742	2.169	6335
SALINITY	31.145	30.462	31.641	.210	6335
SIGMA-T(KG/M**3)	24.911	23.879	25.263	.291	6335

COMMENTS

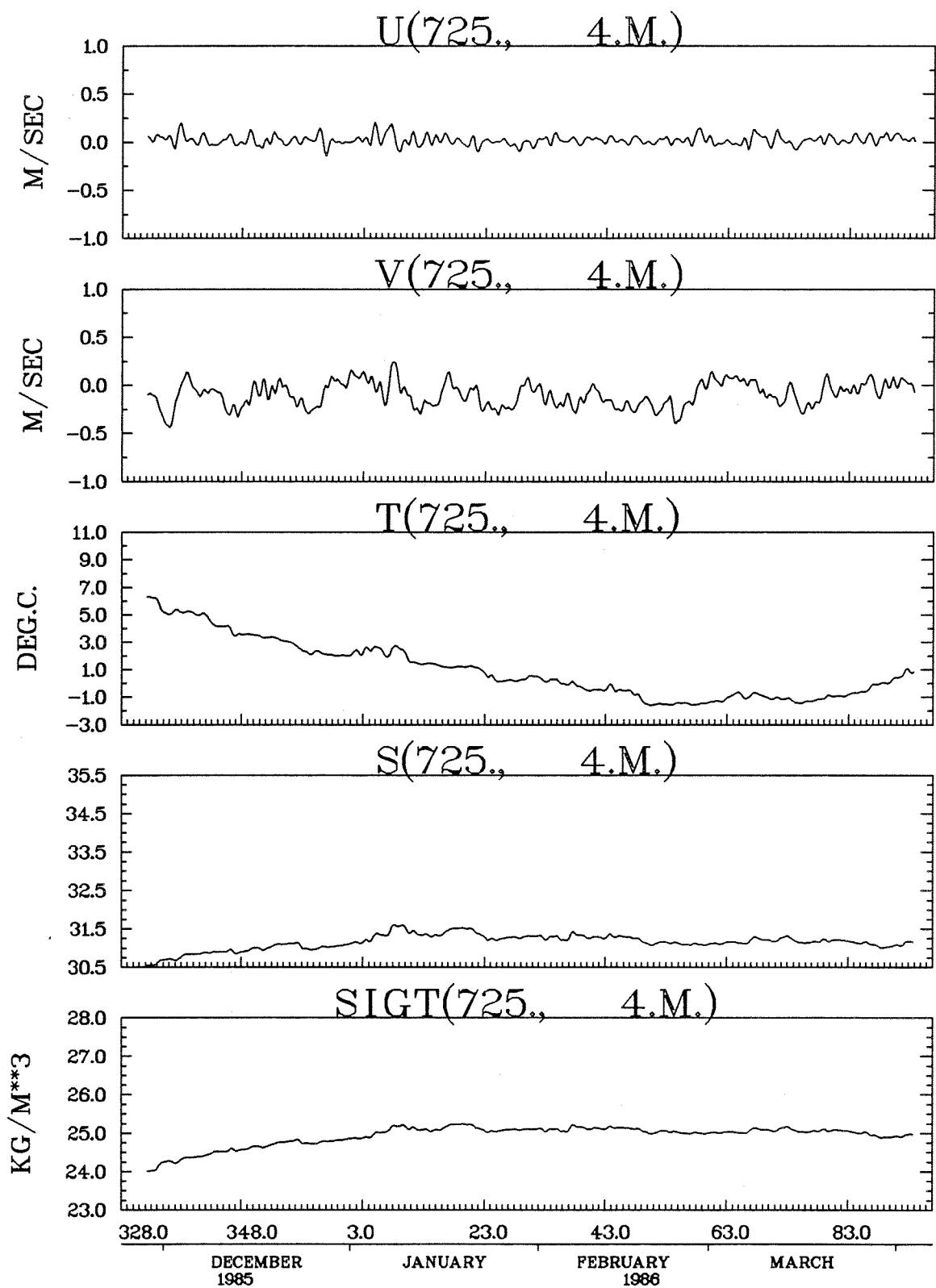
PADDLE WHEEL ROTOR USED.

STN. 725, 4 M.

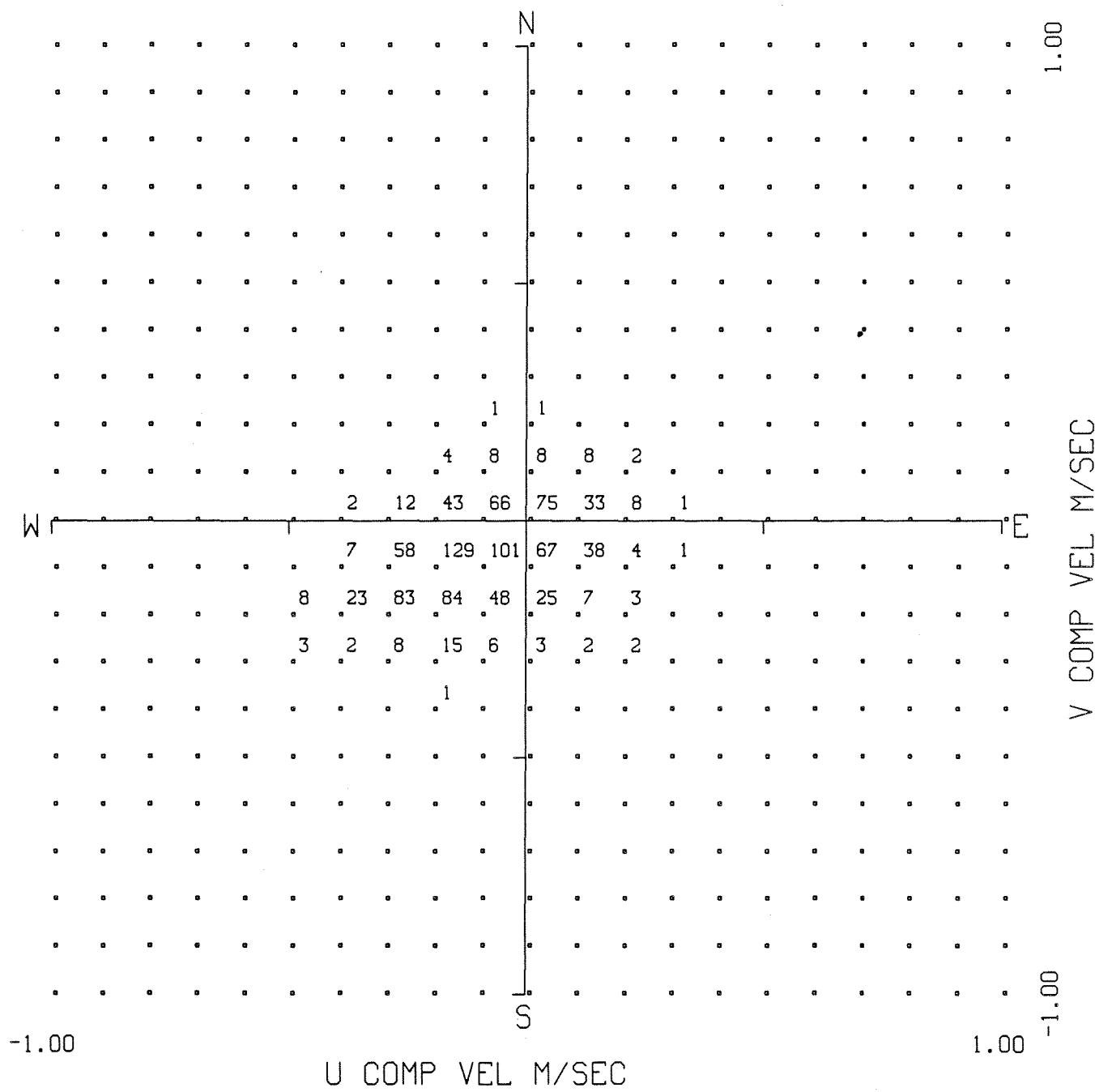




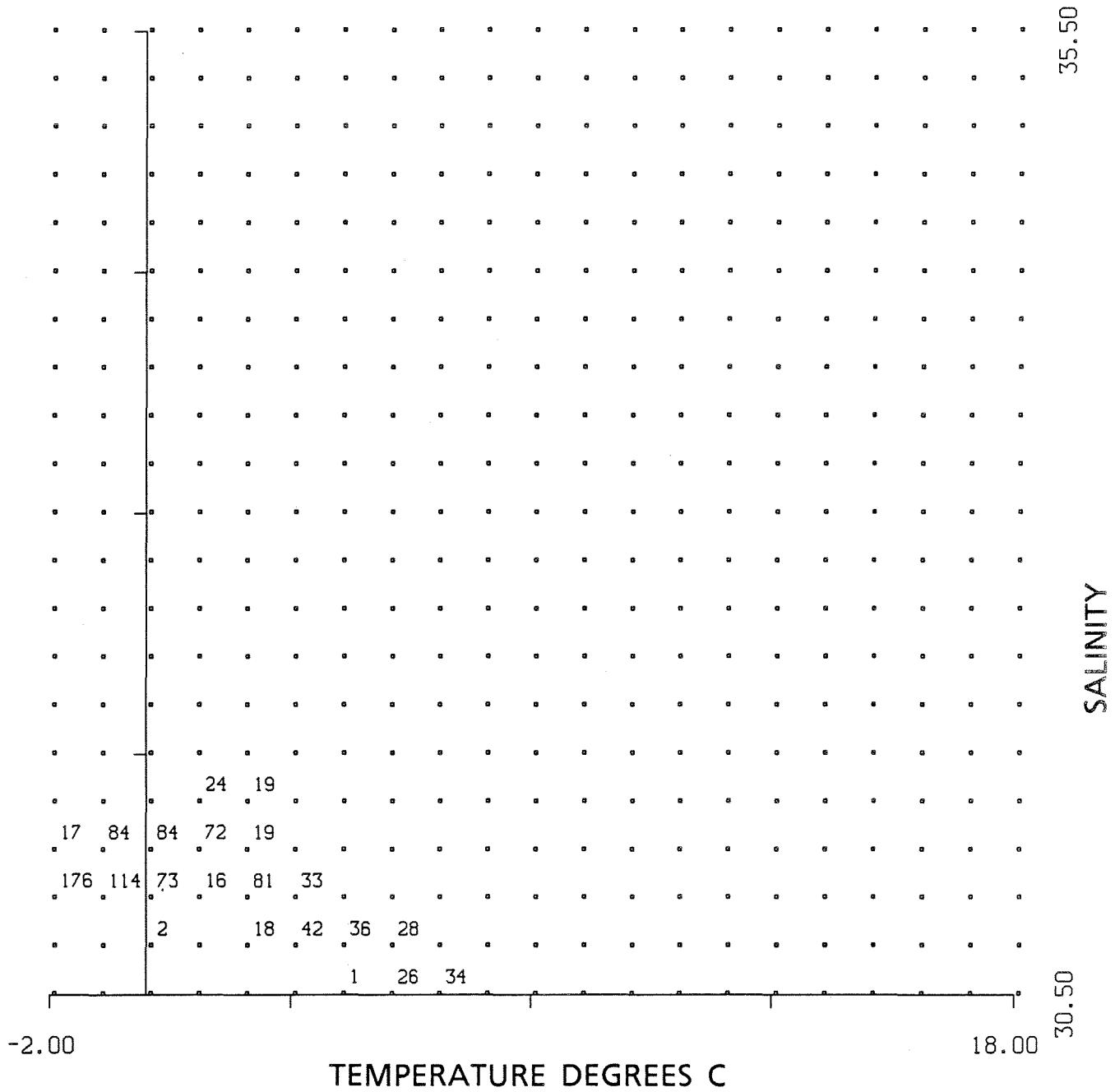
CASP S8 NOV. 25/1985 - APRIL 6/1986



CASP S8 NOV. 25/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 725 DEPTH 4 M.
START TIME 25/11/ 85 13:59:55.5 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 725 DEPTH 4 M.
START TIME 25/11/ 85 13:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 725
DEPTH (M) 32

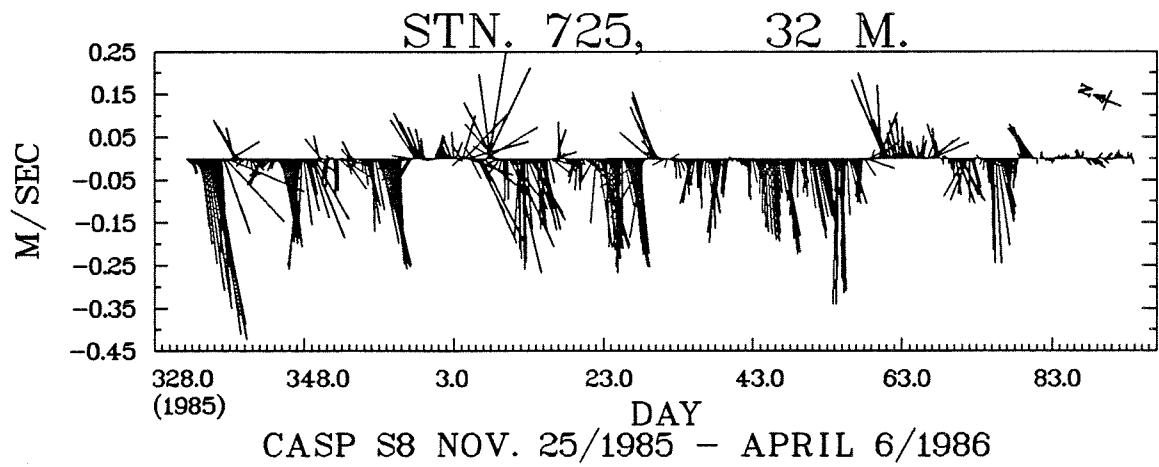
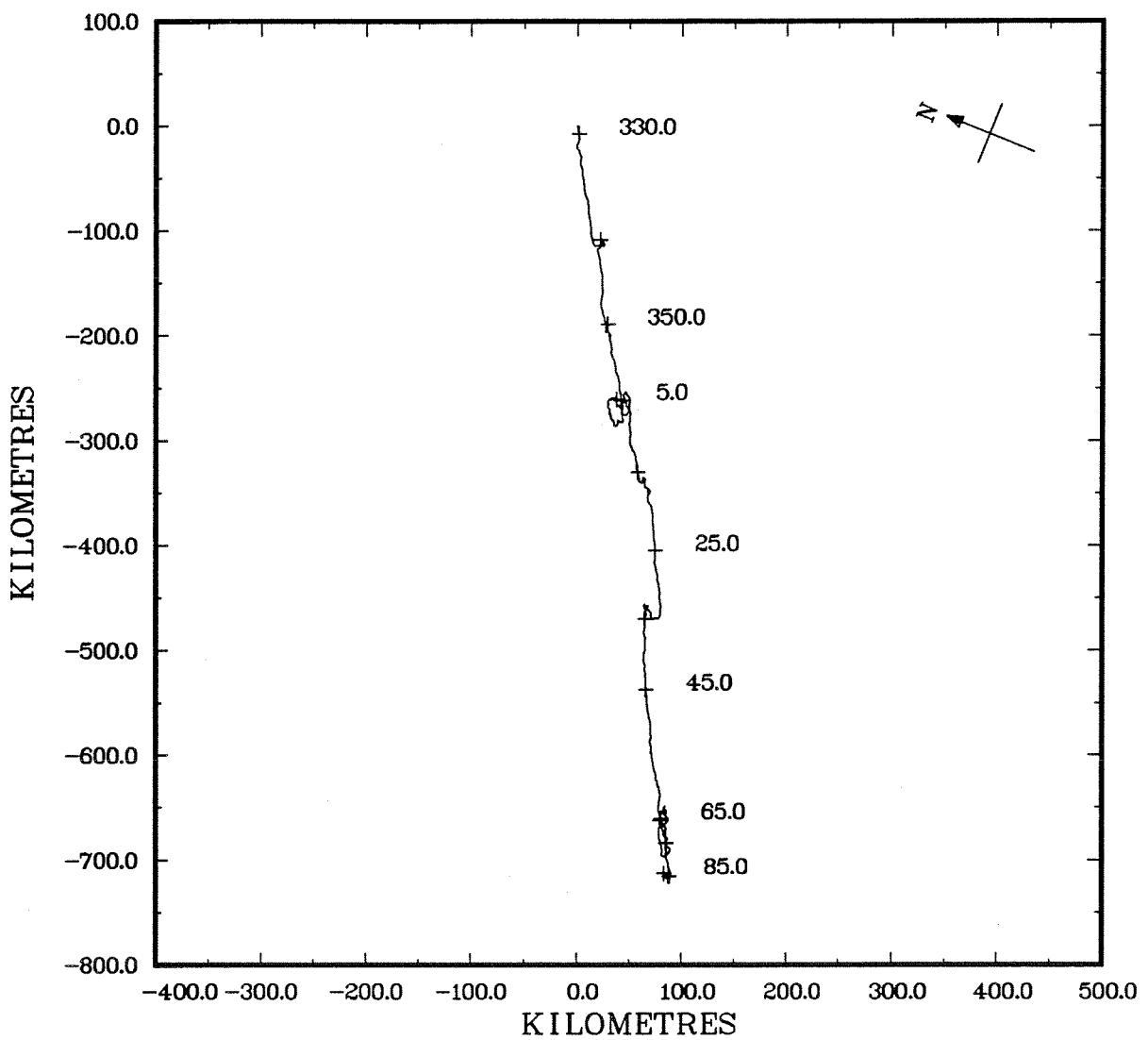
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 7525
LATITUDE 44 35.85 N
LONGITUDE 62 31.54 W
WATER DEPTH (M) 102
MOORING DATE ; CRUISE 25/11/1985 ; 85-040
DURATION (DAYS) 131.98
SAMPLE INTERVAL 30 MINUTES

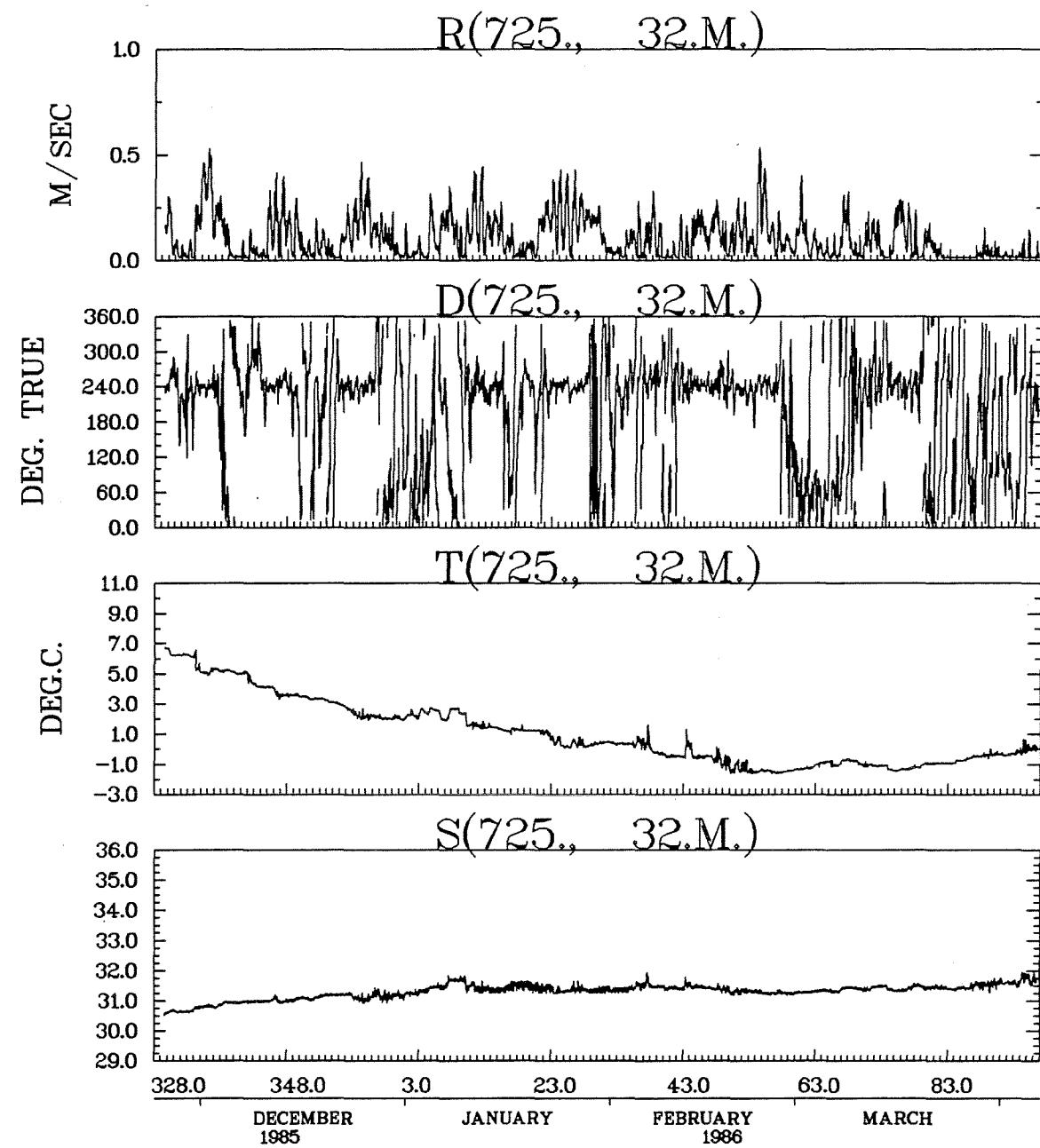
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.107	.015	.534	.097	6335
U(158° T) COMP VEL(M/S)	.008	-.296	.304	.050	6335
V(68° T) COMP VEL(M/S)	-.063	-.527	.397	.119	6335
TEMPERATURE(DEG.C.)	1.051	-1.600	6.746	2.173	6335
SALINITY	31.300	30.519	31.965	.240	6335
SIGMA-T(KG/M**3)	25.037	23.924	25.642	.323	6335

COMMENTS

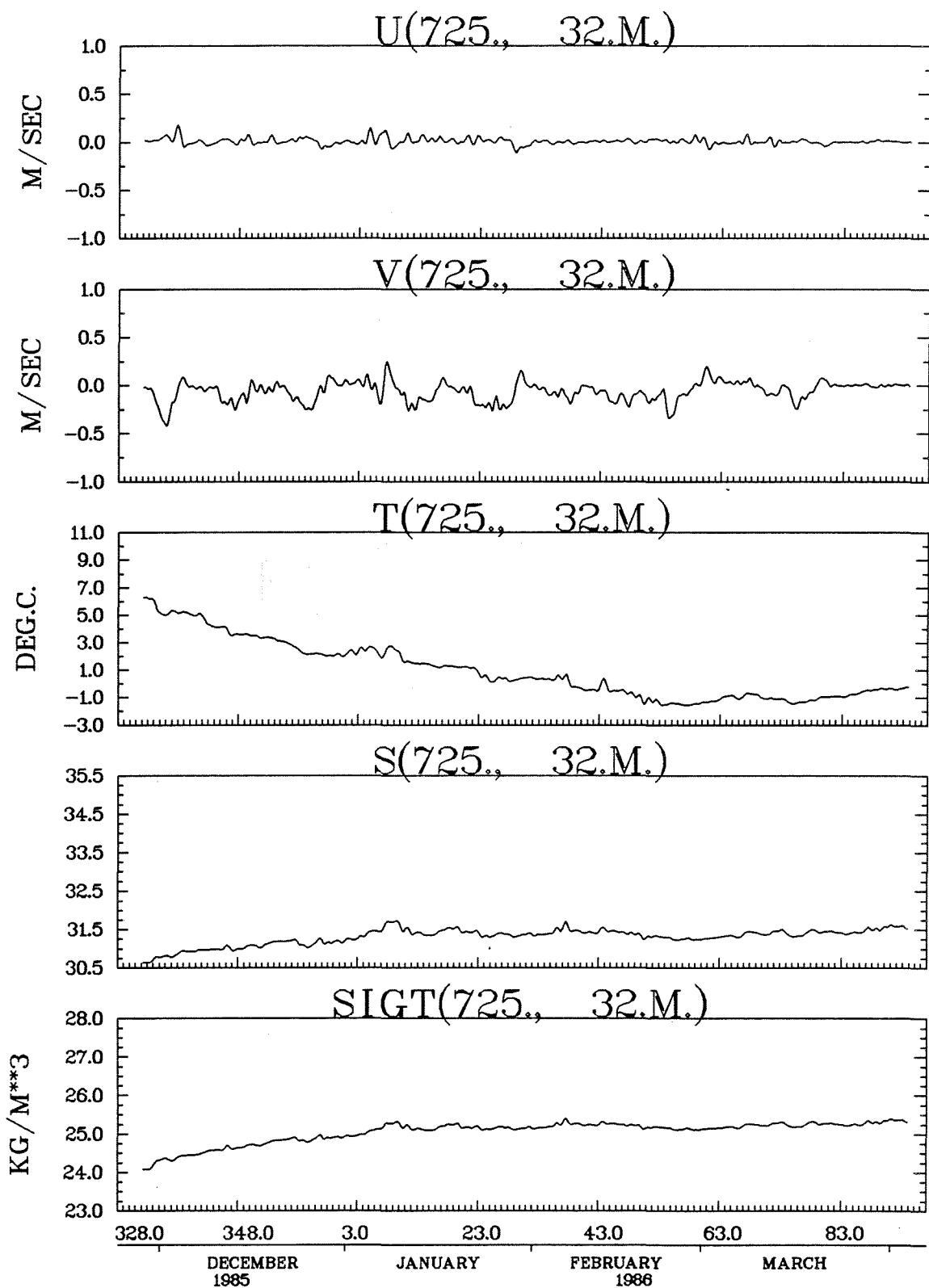
RATE NOT OF MUCH USE (ROTOR BEARING FAILURE THROUGHOUT RECORD)
 ROTOR FAILED COMPLETELY FROM DAY 80' 1986 TO END OF RECORD
 CONDUCTIVITY CELL FOULED FROM DAY 10' 1986 TO DAY 37' 1986
 AUTOEDIT DESPIKE AND RANGE CHECK RUN ON SALINITY FROM
 DAY 10' 1986 TO DAY 37' 1986

STN. 725, 32 M.

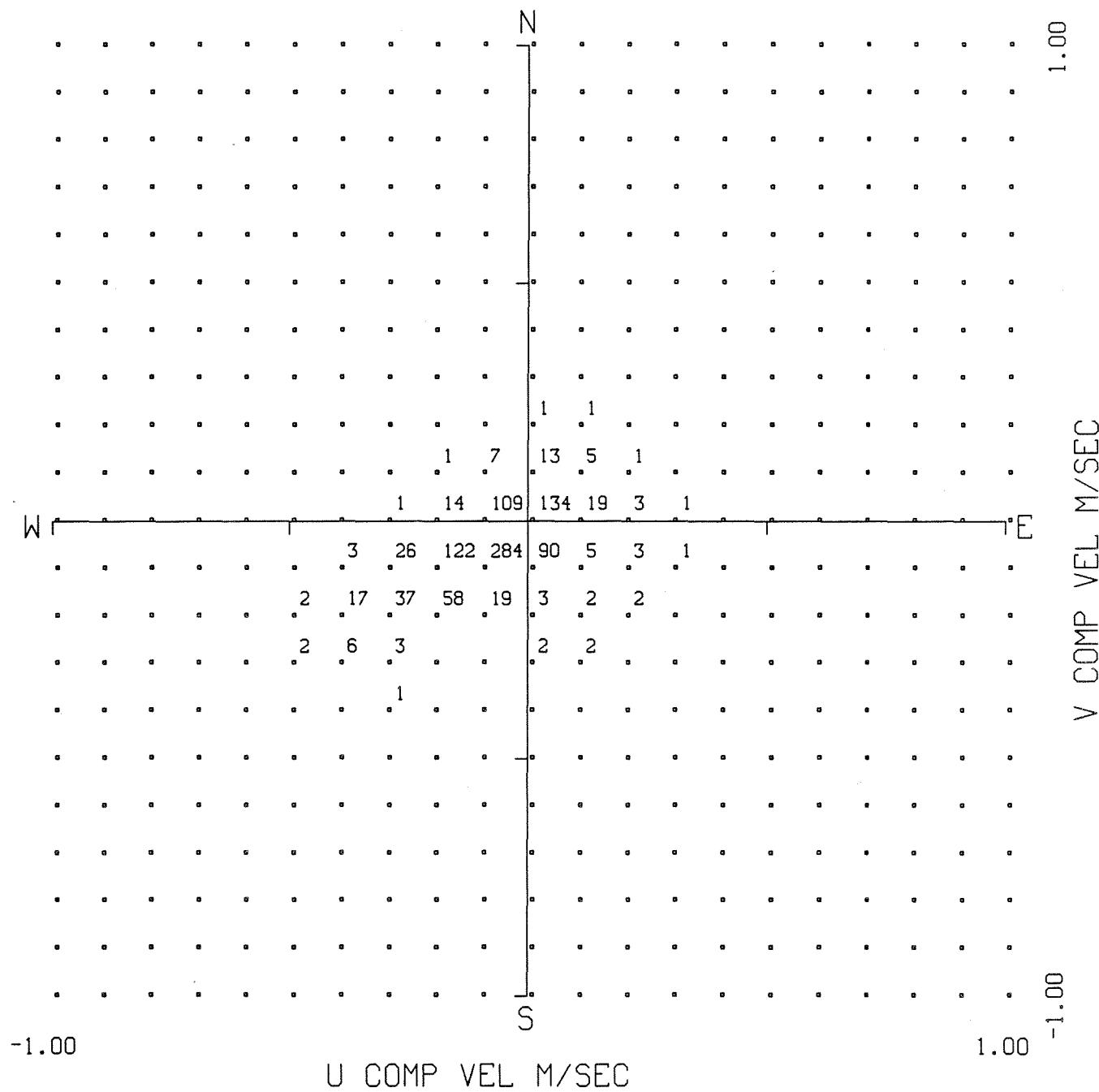




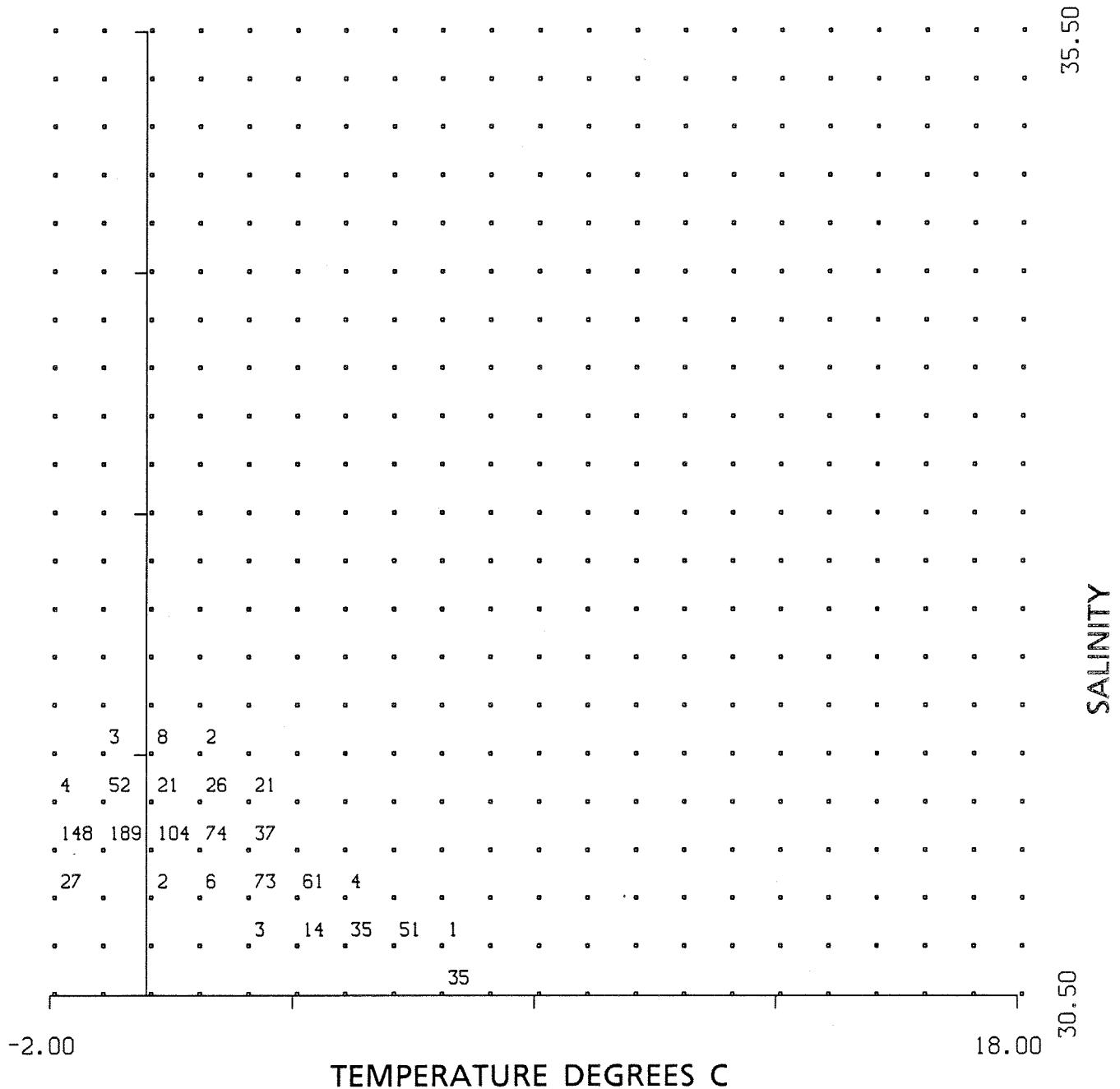
CASP S8 NOV. 25/1985 – APRIL 6/1986



CASP S8 NOV. 25/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 725 DEPTH 32 M.
 START TIME 25/11/ 85 13:59:55.5 GMT
 FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 725 DEPTH 32 M.
START TIME 25/11/ 85 13:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 725
DEPTH (M) 72

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5358
LATITUDE 44 35.85 N
LONGITUDE 62 31.54 W
WATER DEPTH (M) 102
MOORING DATE ; CRUISE 25/11/1985 ; 85-040
DURATION (DAYS) 131.98
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.154	.022	.474	.070	6335
U(158° T) COMP VEL(M/S)	-.018	-.352	.325	.094	6335
V(68° T) COMP VEL(M/S)	-.079	-.471	.381	.115	6335
TEMPERATURE(DEG.C.)	3.452	1.696	5.532	.748	2700
SALINITY	31.788	30.907	33.270	.384	2700
SIGMA-T(KG/M**3)	25.279	24.548	26.270	.323	2700

COMMENTS

ENCODER WORN OUT

HIGH RESISTANCE ON ENCODER CONTACT PINS

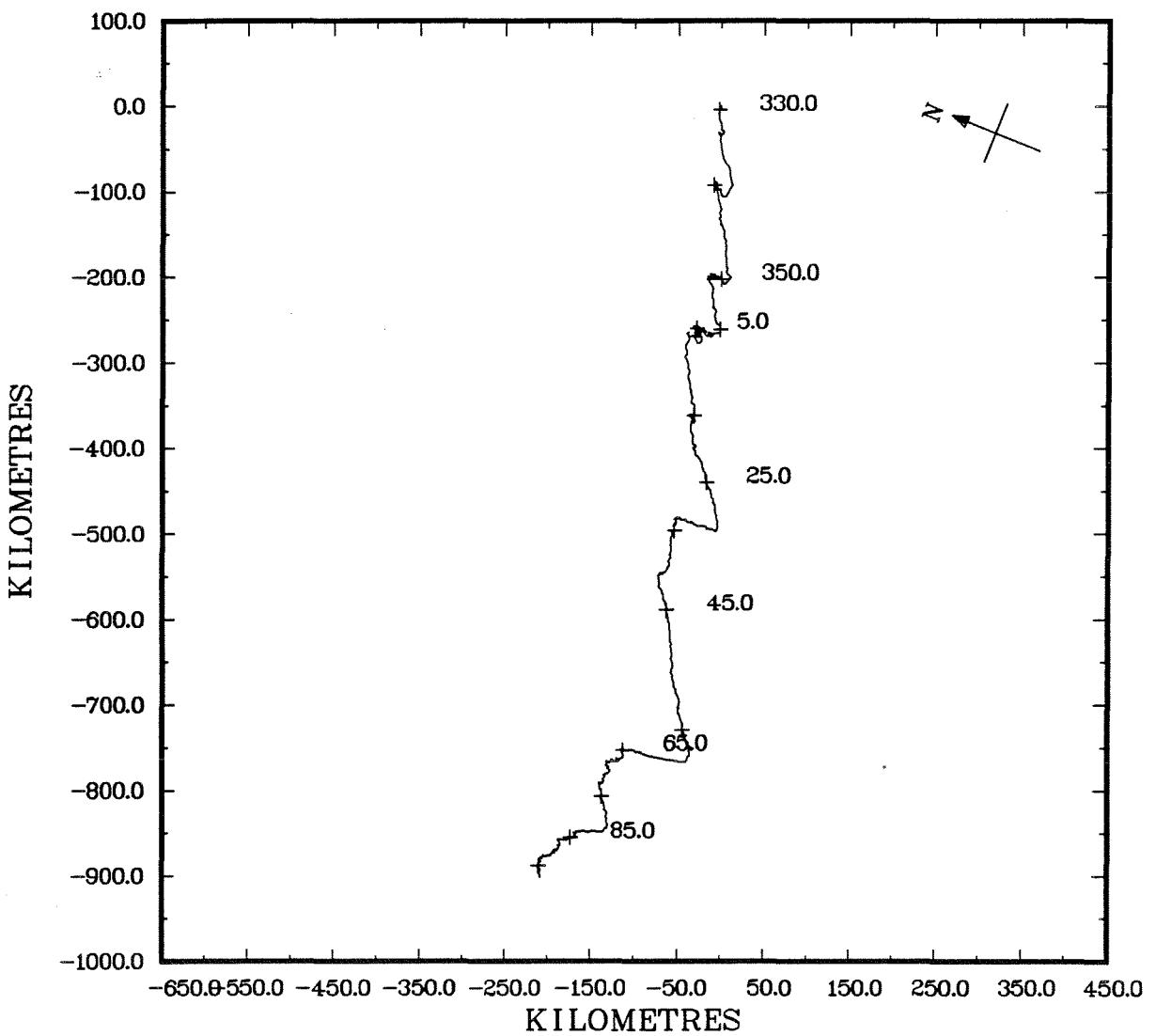
TEMPERATURE AND SALINITY DROPPED FROM

DAY 20 1986 TO END OF RECORD

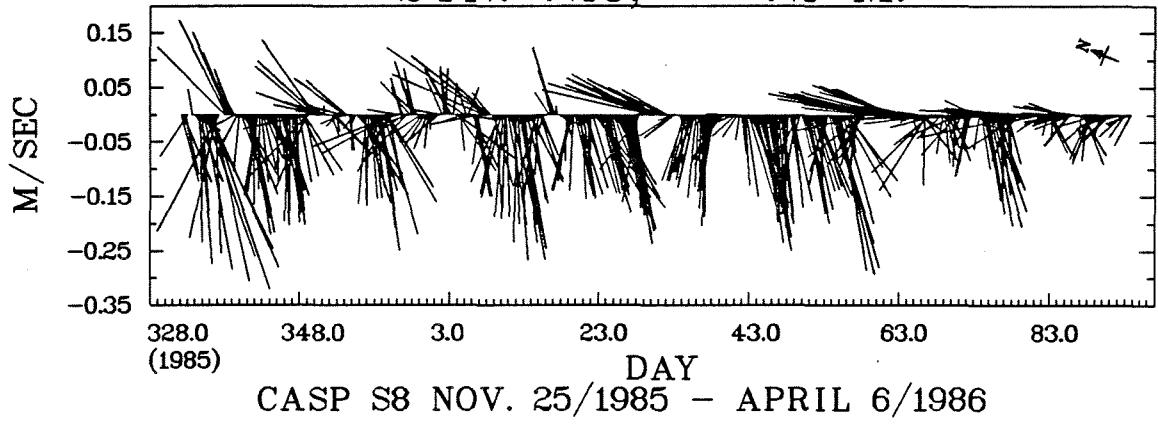
AUTOEDIT DESPIKE AND RANGE CHECK RUN ON TEMPERATURE AND SALINITY

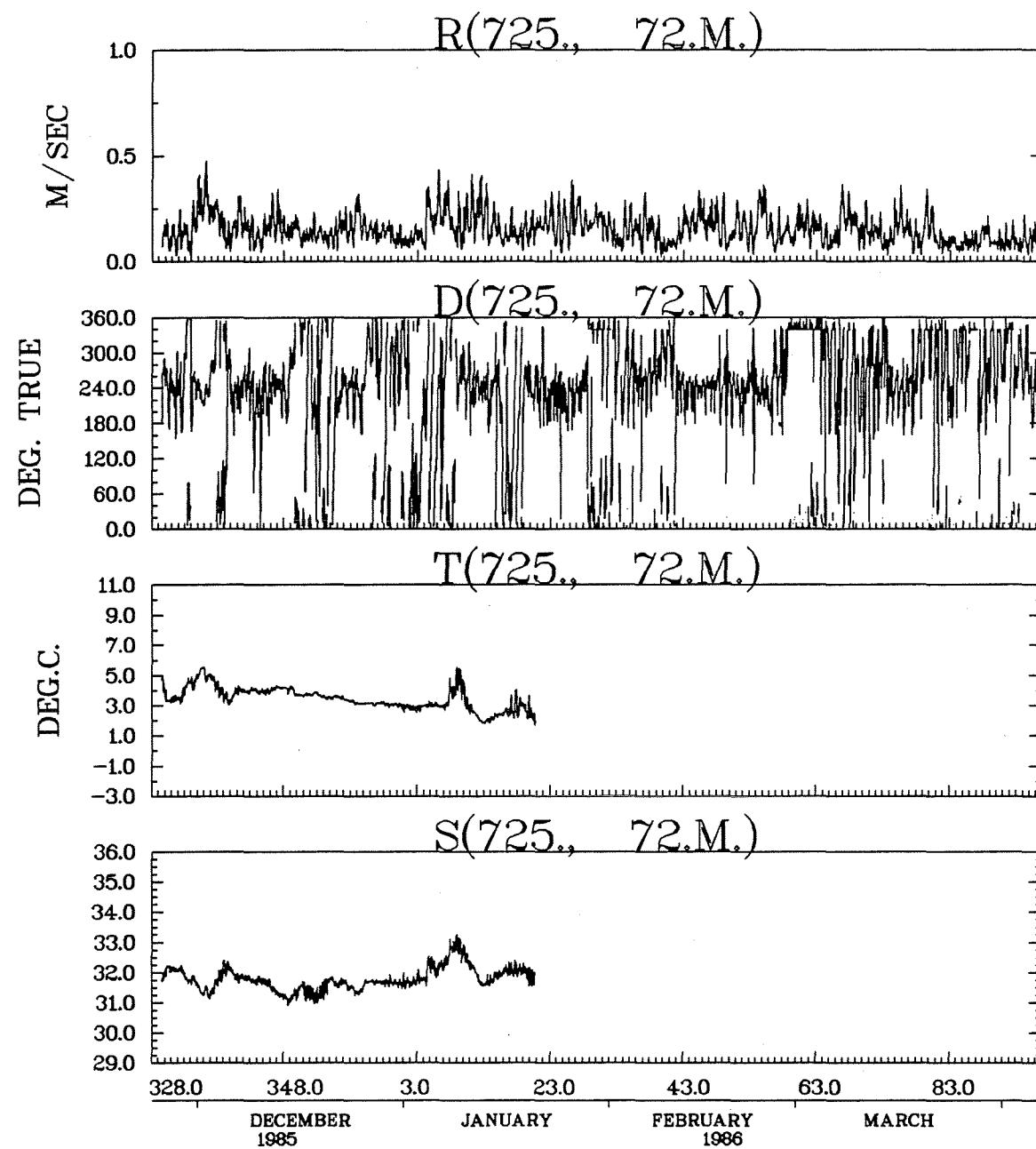
DIRECTION IS QUESTIONABLE FROM DAY 54 1986 TO END OF RECORD

STN. 725, 72 M.

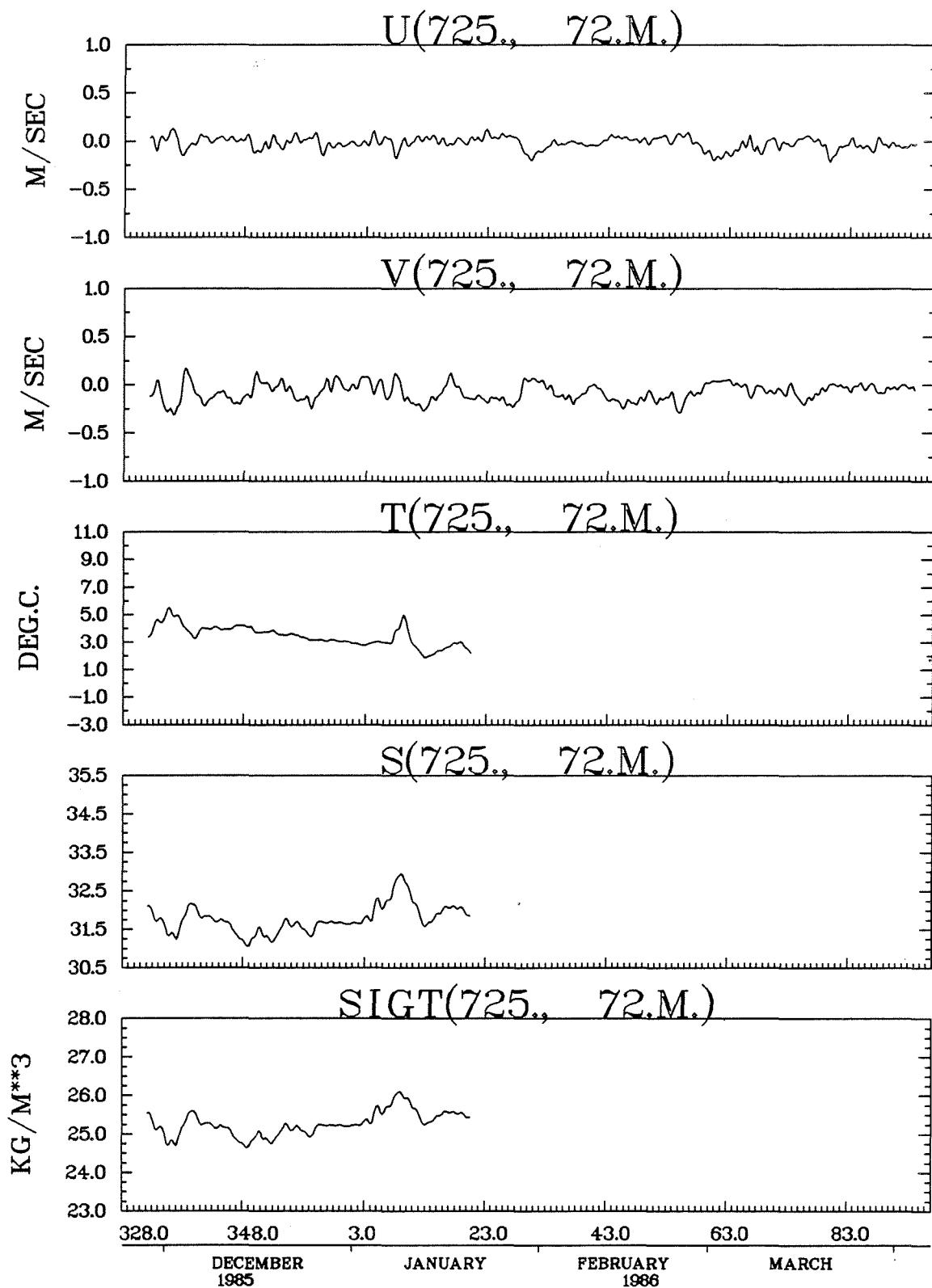


STN. 725, 72 M.

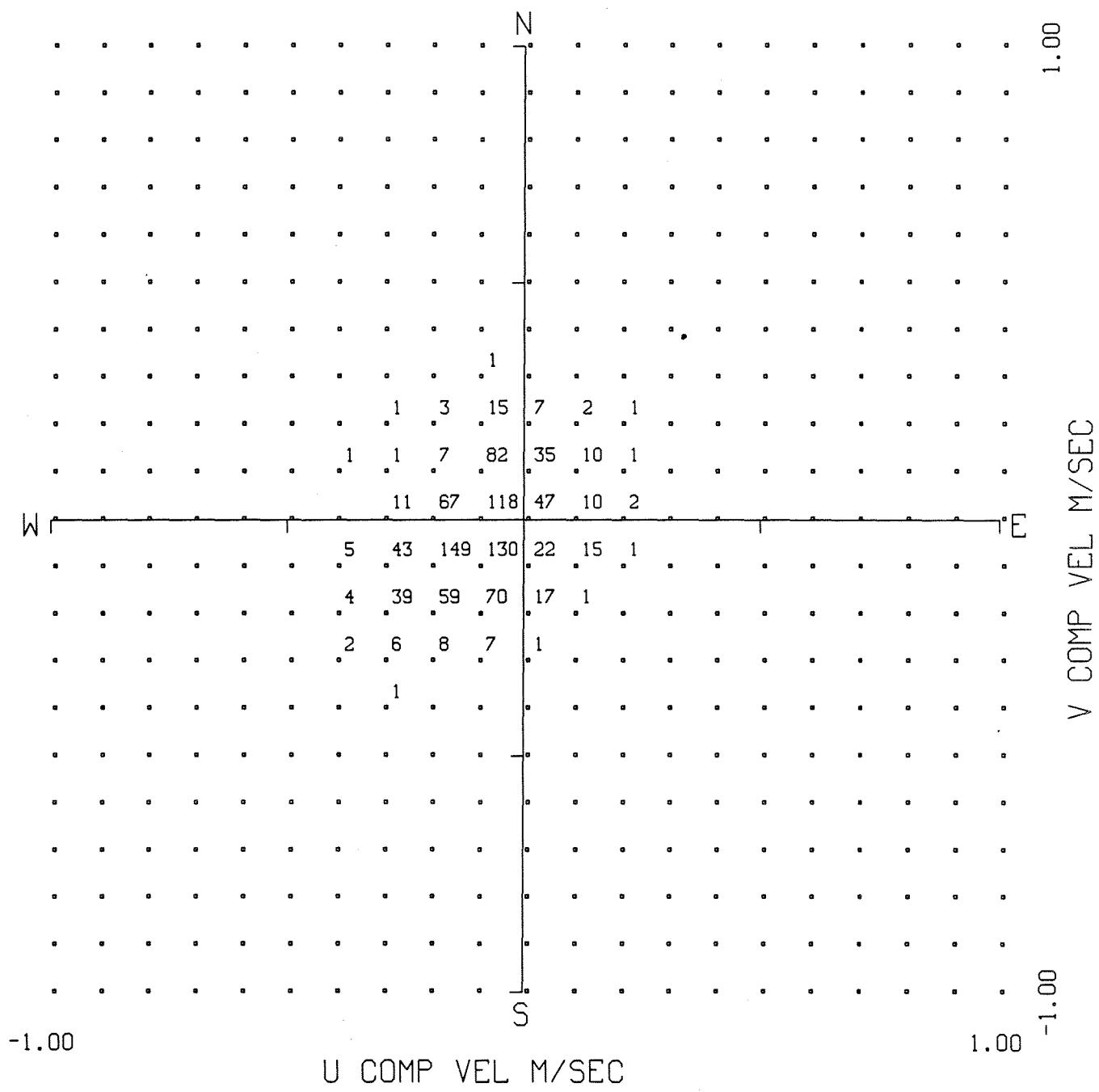




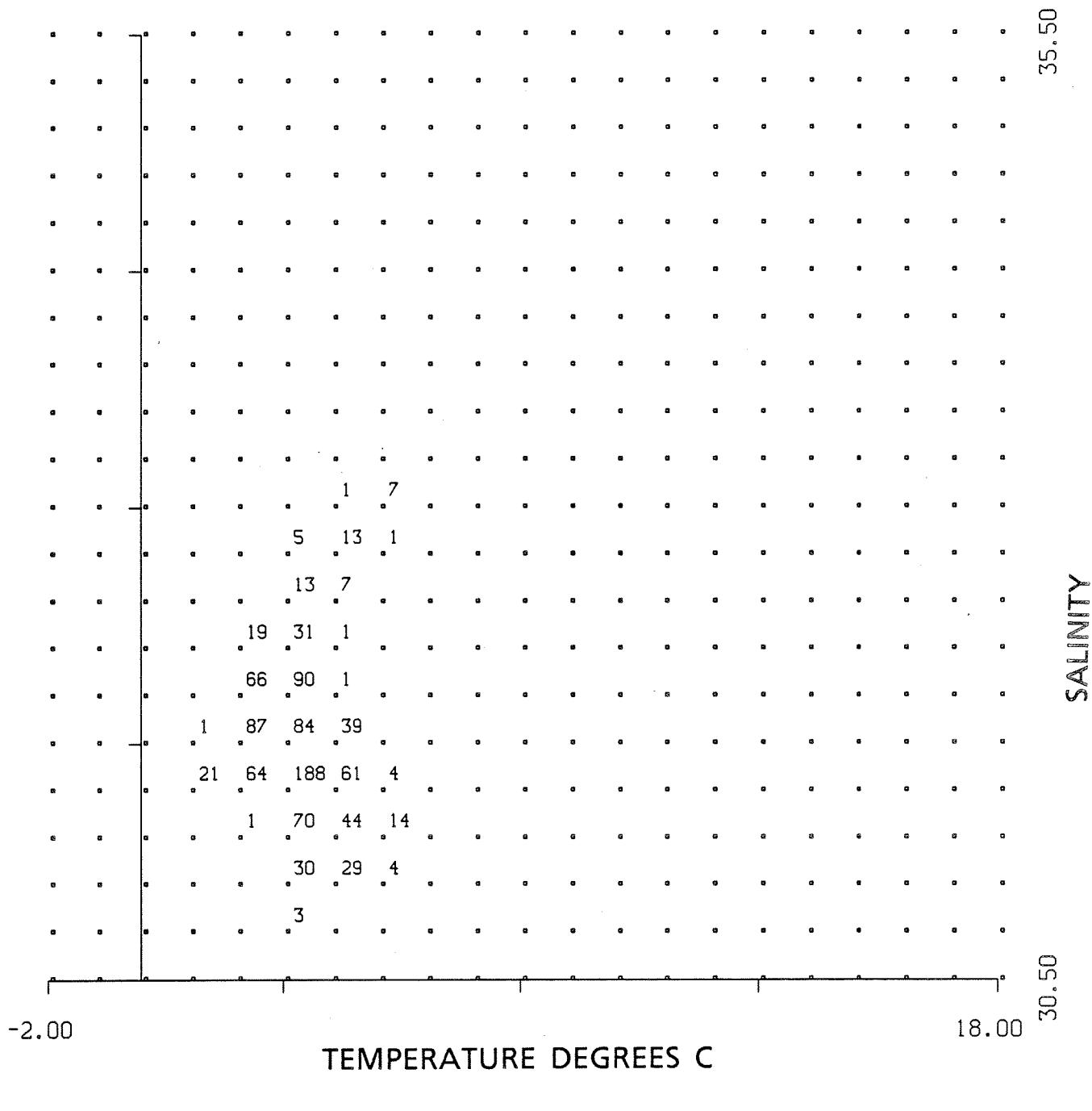
CASP S8 NOV. 25/1985 – APRIL 6/1986



CASP S8 NOV. 25/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 725 DEPTH 72 M.
 START TIME 25/11/ 85 13:59:55.5 GMT
 FREQUENCY UNIT 0.1%



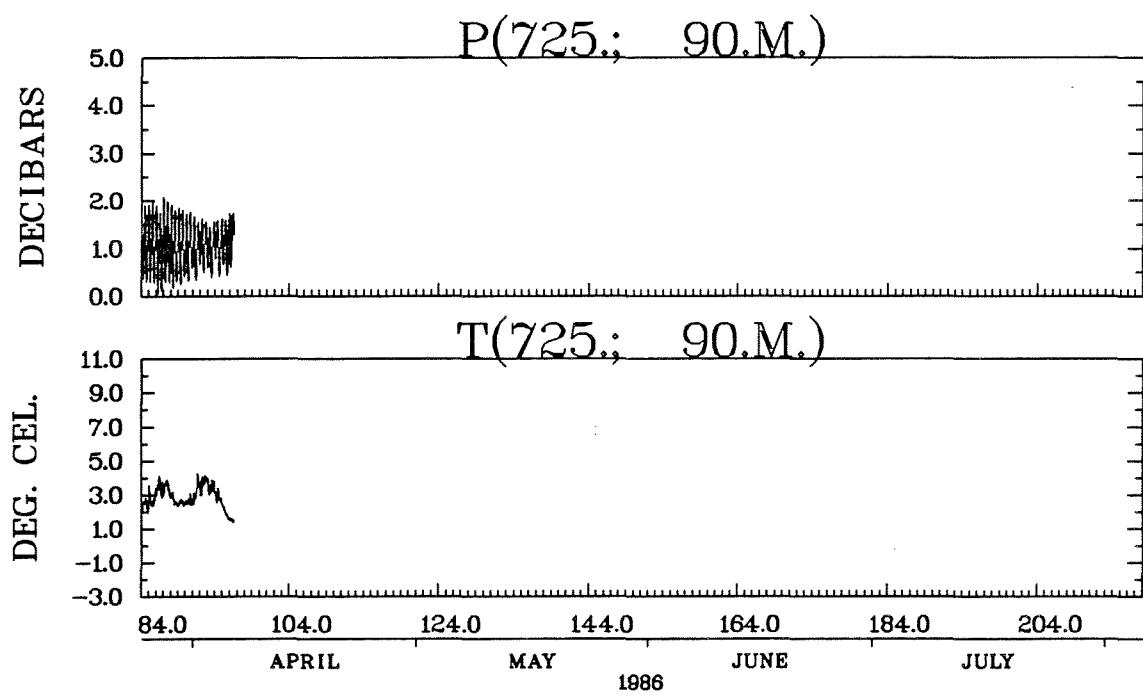
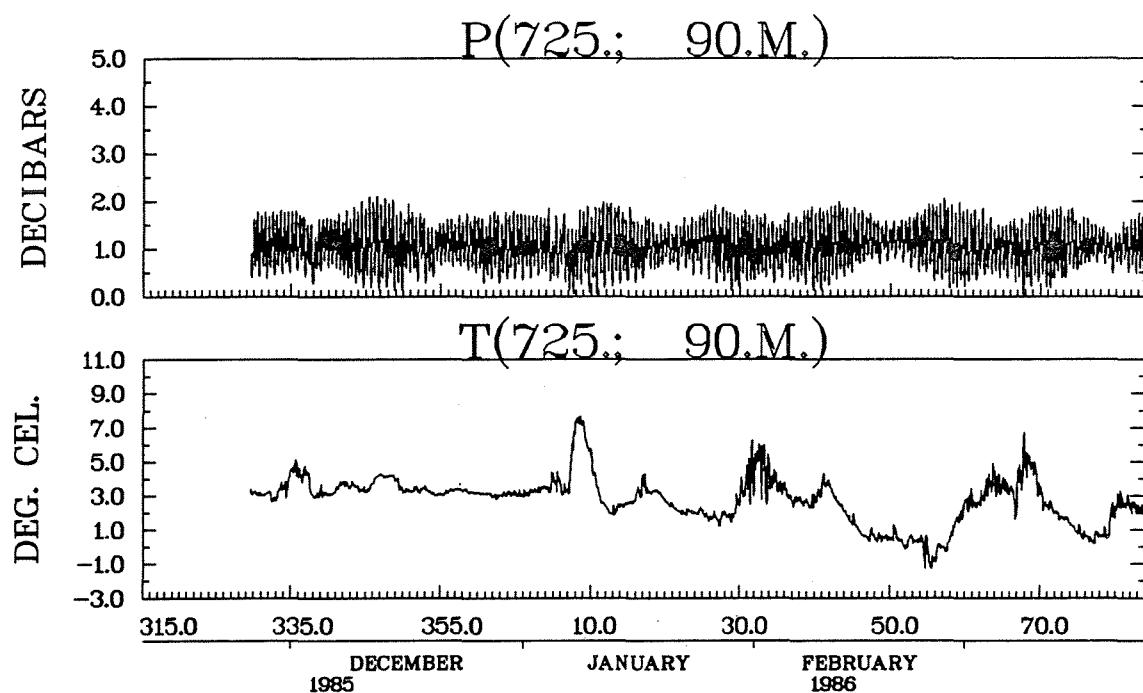
TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 725 DEPTH 72 M.
START TIME 25/11/ 85 13:59:55.5 GMT
FREQUENCY UNIT 0.1%

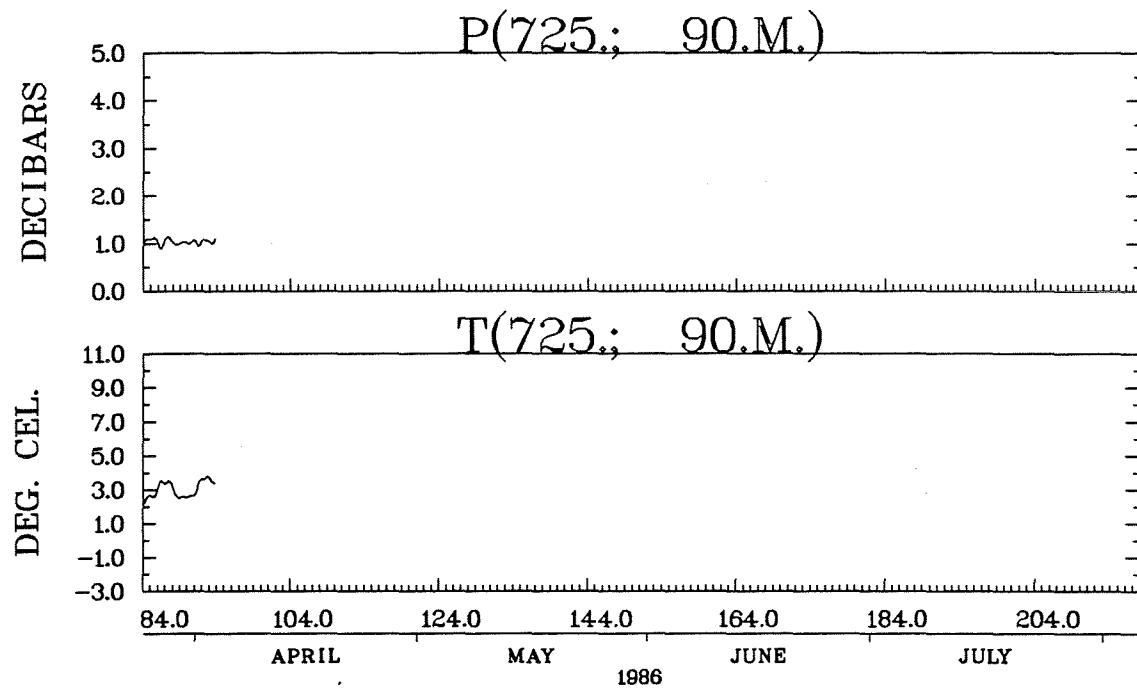
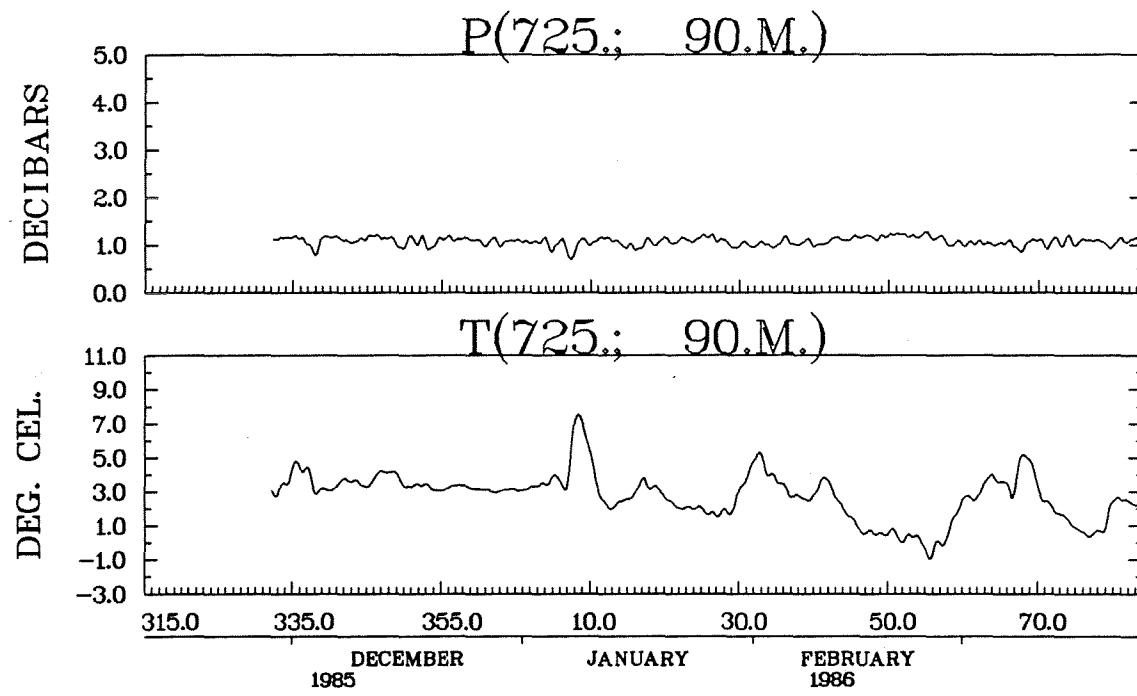
MOORING 725
DEPTH (M) 90

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 990
LATITUDE 44 35.74 N
LONGITUDE 62 31.33 W
WATER DEPTH (M) 90
MOORING DATE ; CRUISE 25/11/1985 ; 85-040
DURATION (DAYS) 132.00
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	2.776	-1.240	7.650	1.318	3168
PRESSURE(DECIBARS)	1.077	.000	2.090	.454	3168



CASP S8 NOV. 25/1985 – APRIL 6/1986



CASP S8 NOV. 25/1985 – APRIL 6/1986

HISTOGRAM OF T(725.; 90.M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	7	.2 *	
-1.00	-.50	22	.7 ***	
-.50	0.00	40	1.3 ****	
0.00	.50	134	4.2 *****	
.50	1.00	193	6.1 *****	
1.00	1.50	83	2.6 *****	
1.50	2.00	253	8.0 *****	
2.00	2.50	336	10.6 *****	
2.50	3.00	443	14.0 *****	
3.00	3.50	951	30.0 *****	
3.50	4.00	317	10.0 *****	
4.00	4.50	204	6.4 *****	
4.50	5.00	60	1.9 *****	
5.00	5.50	39	1.2 ****	
5.50	6.00	33	1.0 ***	
6.00	6.50	16	.5 **	
6.50	7.00	8	.3 *	
7.00	7.50	20	.6 **	
7.50	8.00	9	.3 *	

278

TOTAL NO. OF SAMPLES 3168

OUTSIDE RANGE 0

MOORING 726
DEPTH (M) 9

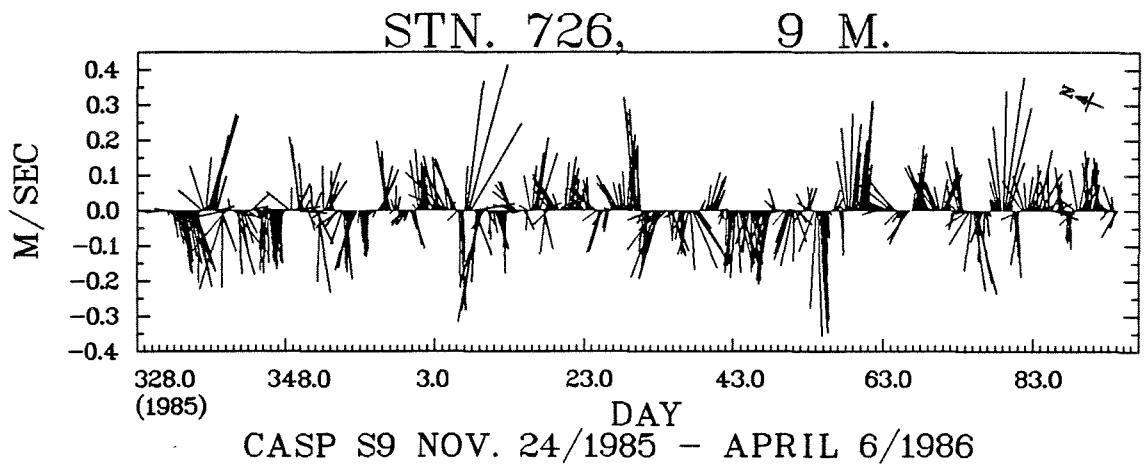
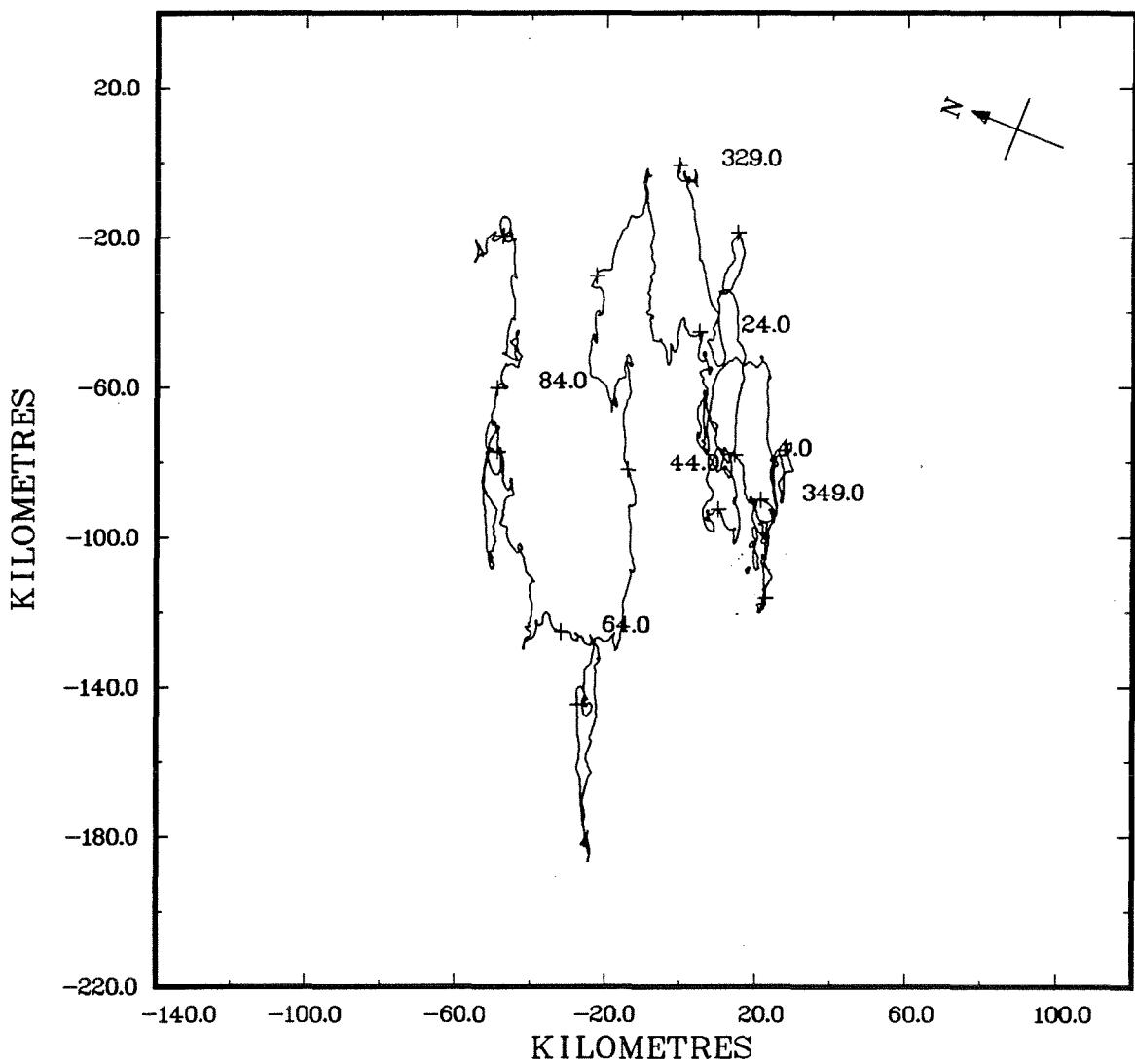
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 4345
LATITUDE 44 52.45 N
LONGITUDE 61 55.08 W
WATER DEPTH (M) 58
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.06
SAMPLE INTERVAL 30 MINUTES

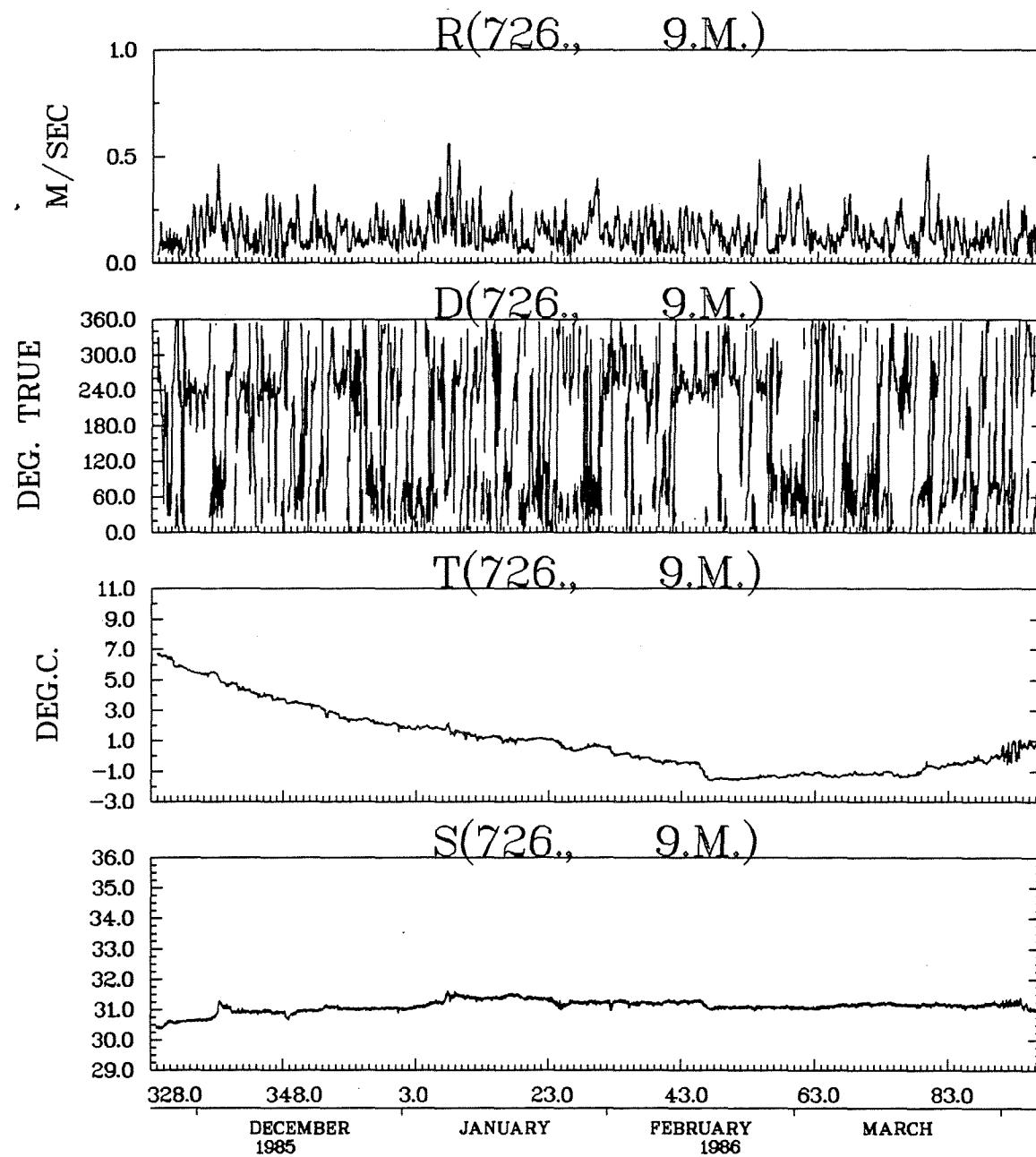
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.143	.022	.563	.079	6387
U(158° T) COMP VEL(M/S)	-.005	-.312	.297	.066	6387
V(68° T) COMP VEL(M/S)	-.002	-.481	.554	.150	6387
TEMPERATURE(DEG.C.)	1.010	-1.637	6.744	2.148	6387
SALINITY	31.110	30.372	31.618	.197	6387
SIGMA-T(KG/M**3)	24.887	23.821	25.264	.279	6387

COMMENTS

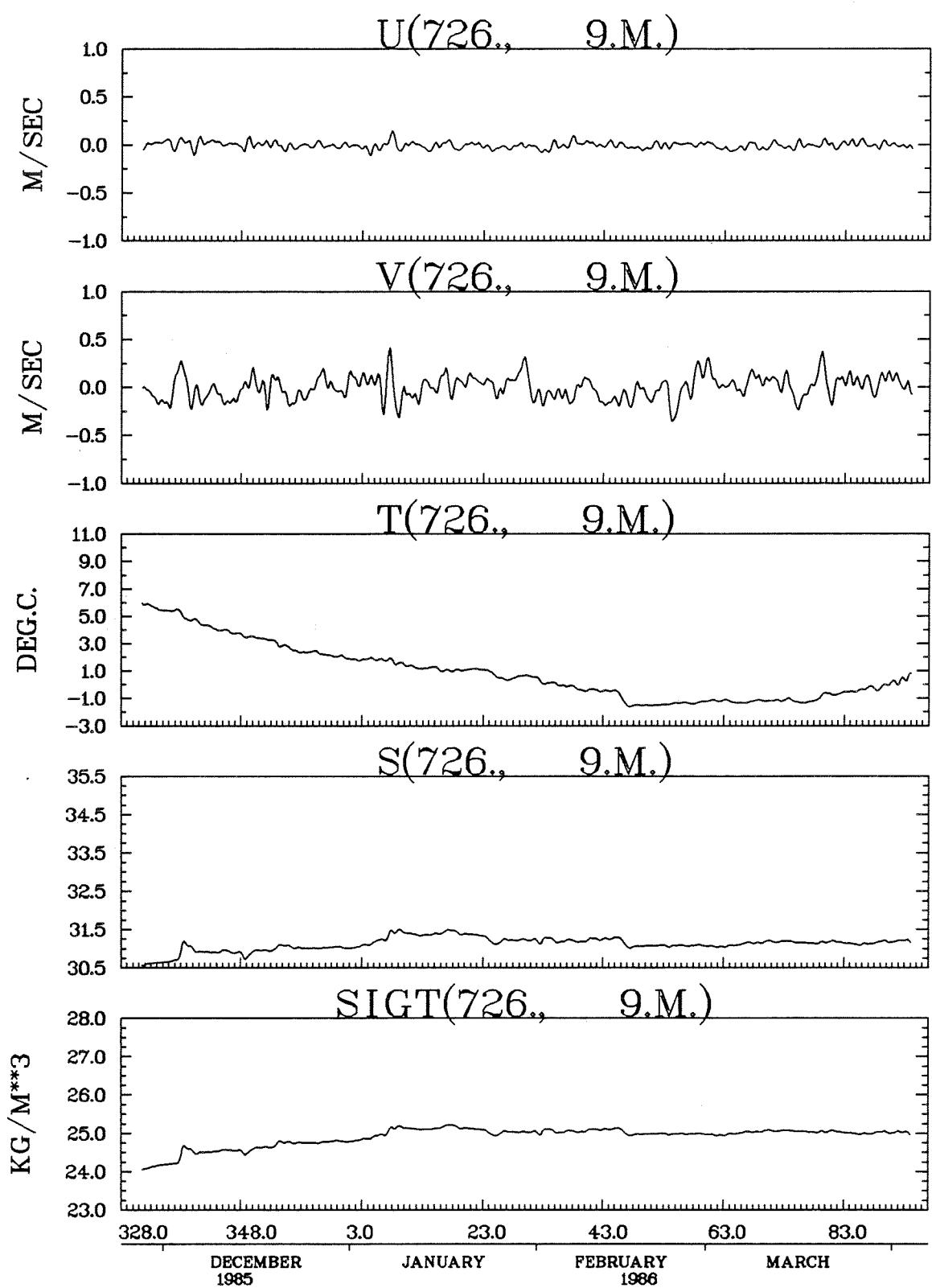
PADDLE WHEEL ROTOR USED
EXTRA CYCLE AT START OF RECORD
START TIME MOVED BACK 30 MINUTES
QUARTZ LINER OF CONDUCTIVITY CELL WAS DISCOVERED BROKEN DURING
CONDUCTIVITY TEMPERATURE POST CALIBRATIONS
CONDUCTIVITY SEEMS TO HAVE WORKED OK FOR THE DURATION OF THE MOORING

STN. 726, 9 M.

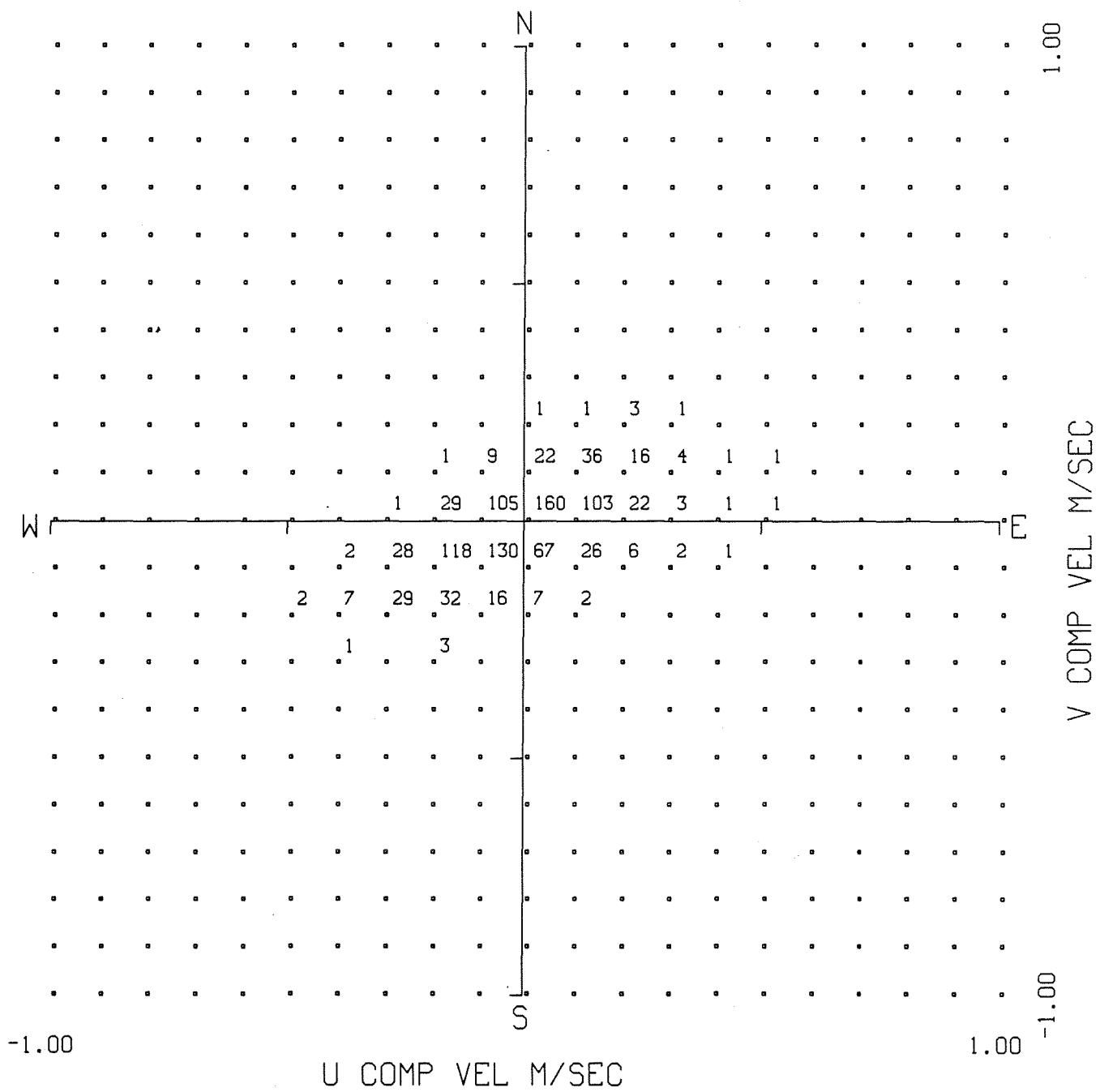




CASP S9 NOV. 24/1985 – APRIL 6/1986

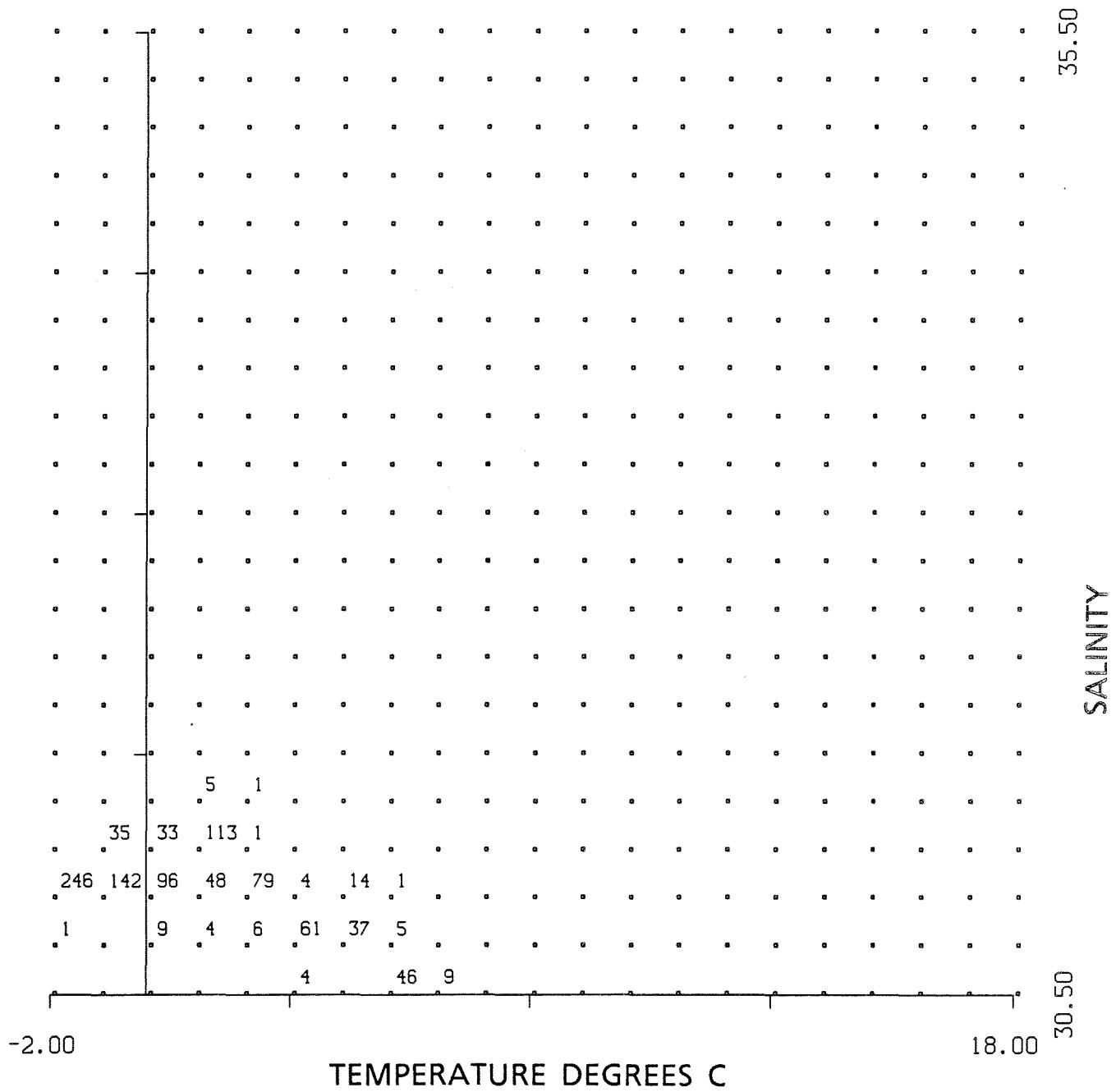


CASP S9 NOV. 24/1985 – APRIL 6/1986



U COMP VEL M/SEC

FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 726 DEPTH 9 M.
 START TIME 24/11/ 85 21: 0: .0 GMT
 FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

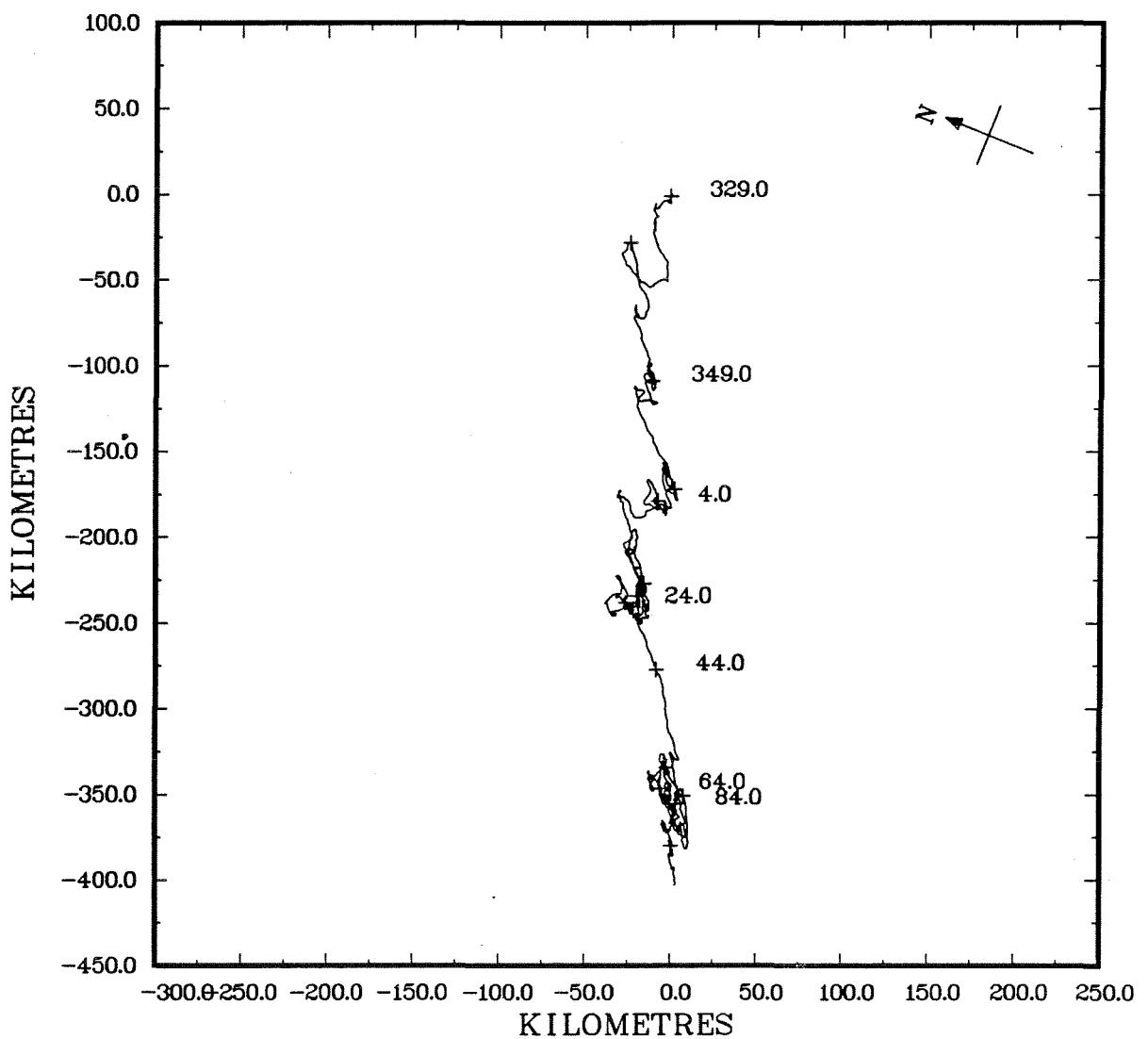
FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 726 DEPTH 9 M.
 START TIME 24/11/ 85 21: 0: .0 GMT
 FREQUENCY UNIT 0.1%

MOORING 726
DEPTH (M) 50

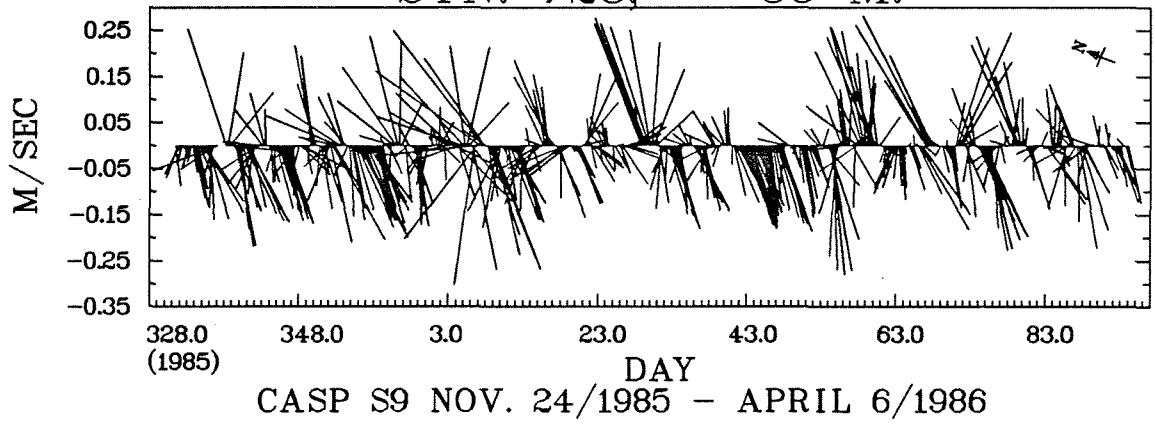
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 3298
LATITUDE 44 52.49 N
LONGITUDE 61 55.28 W
WATER DEPTH (M) 60
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.06
SAMPLE INTERVAL 30 MINUTES

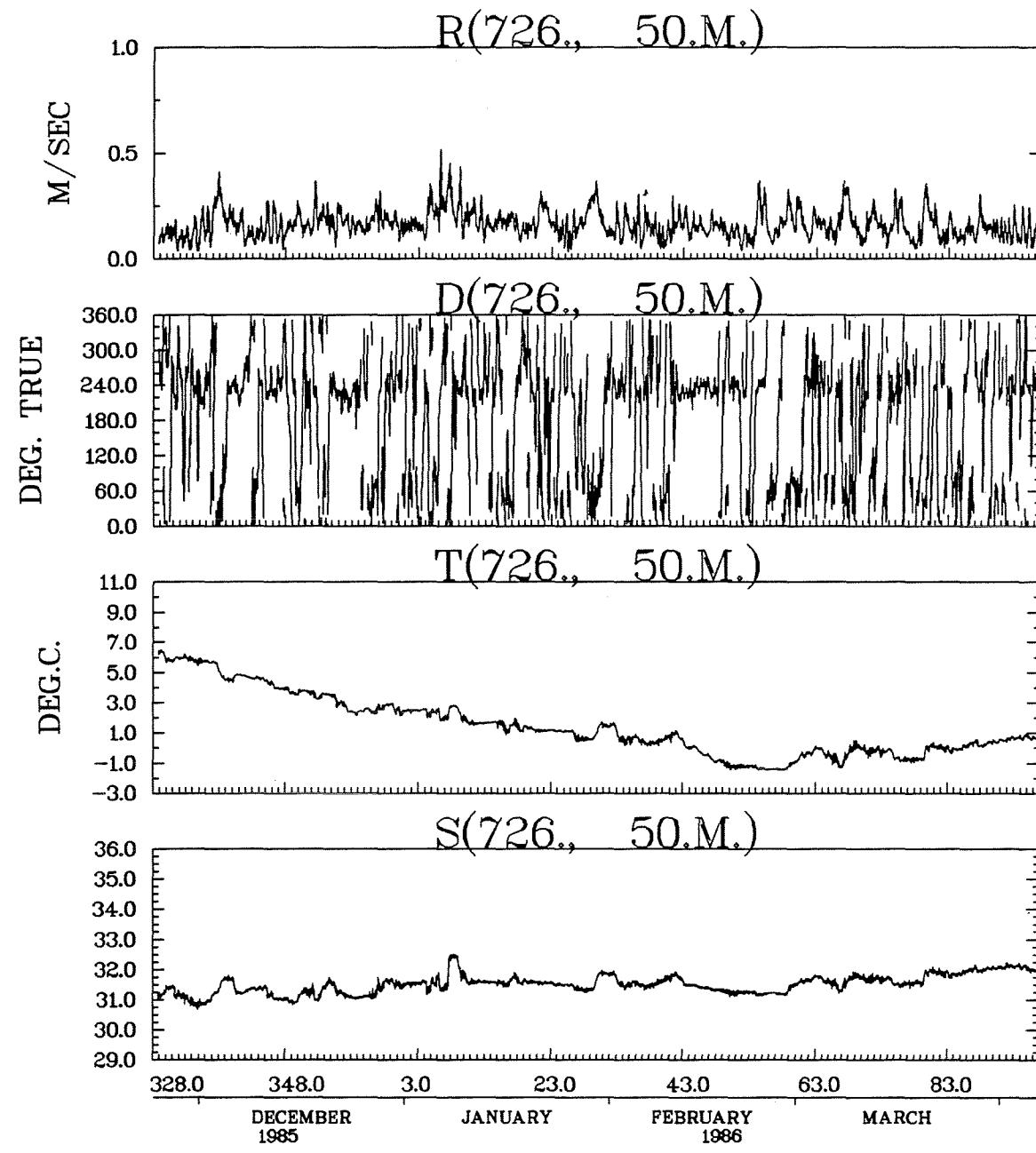
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.163	.034	.519	.064	6387
U(158° T) COMP VEL(M/S)	.000	-.348	.310	.091	6387
V(68° T) COMP VEL(M/S)	-.035	-.488	.449	.146	6387
TEMPERATURE(DEG.C.)	1.439	-1.447	6.502	2.013	6387
SALINITY	31.515	30.677	32.492	.308	6387
SIGMA-T(KG/M**3)	25.191	24.202	25.899	.336	6387

STN. 726, 50 M.

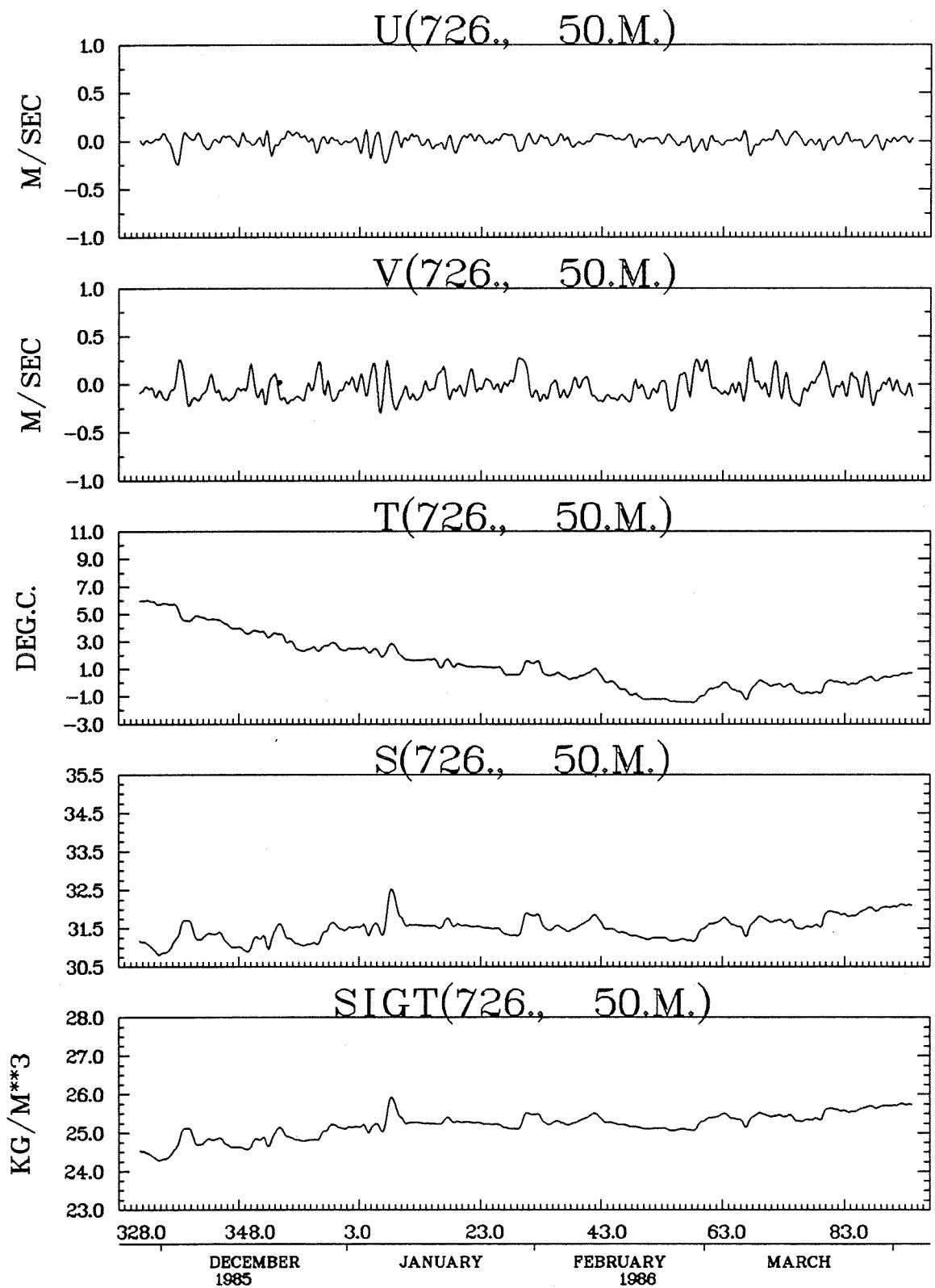


STN. 726, 50 M.

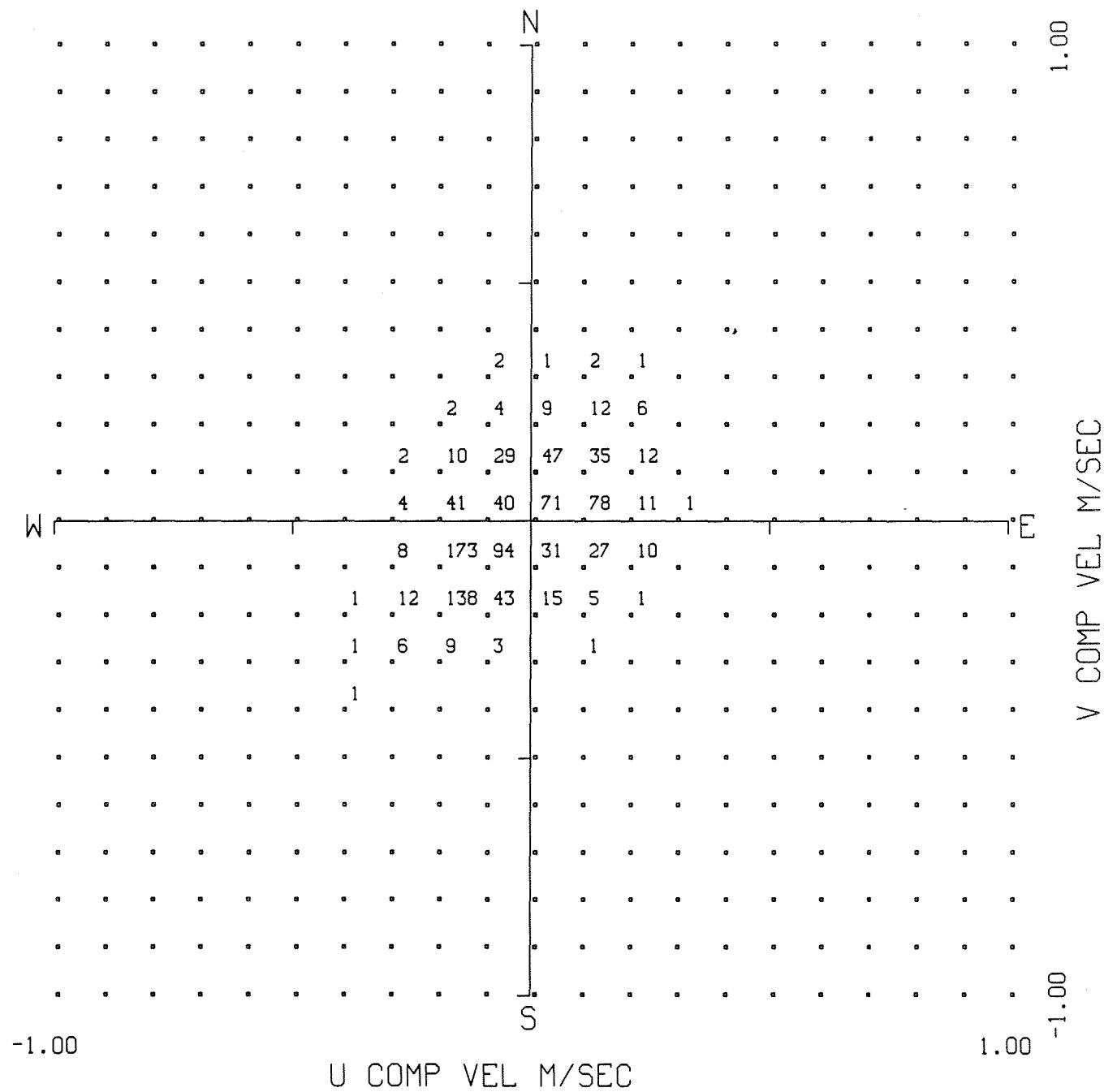




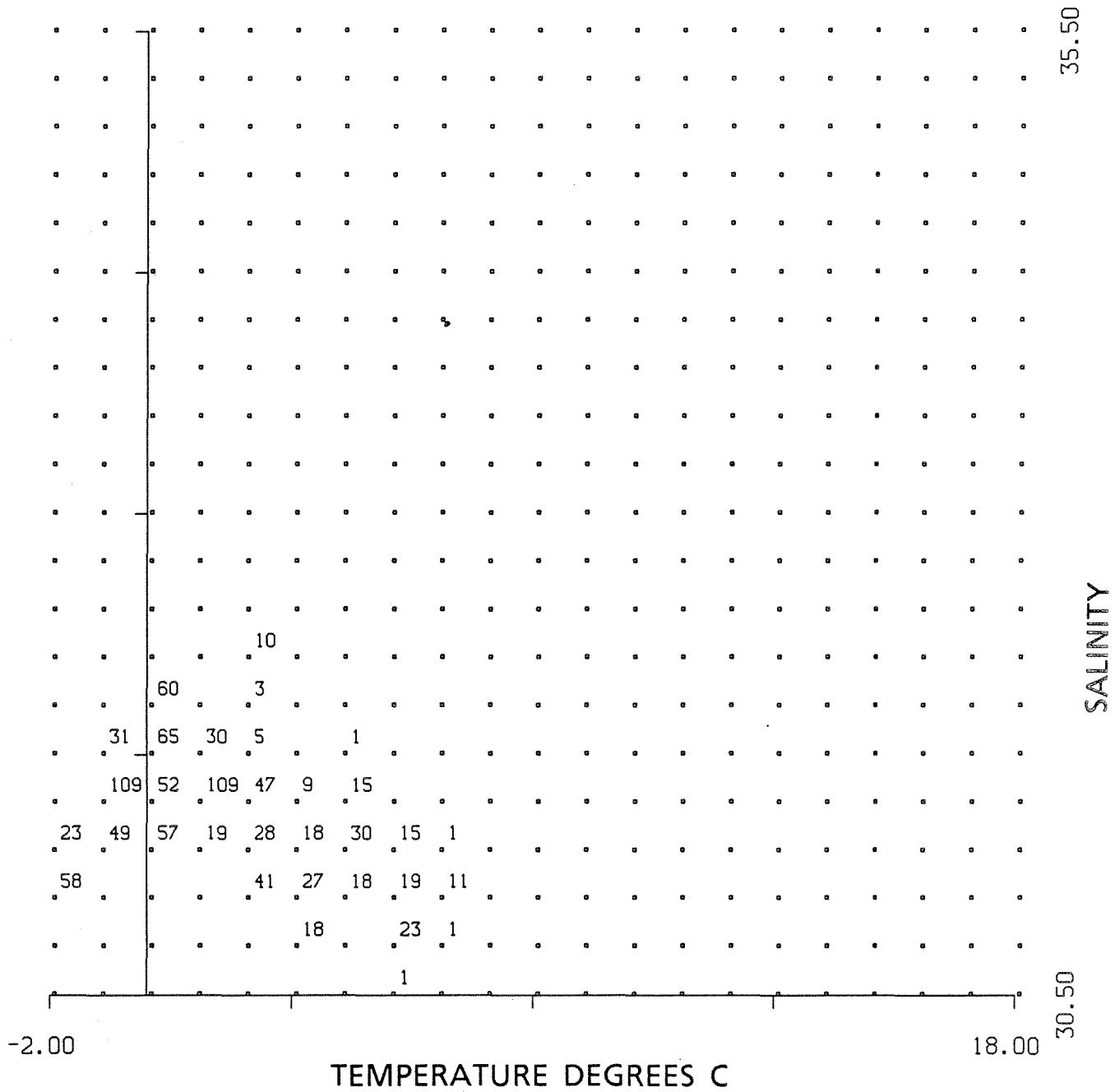
CASP S9 NOV. 24/1985 – APRIL 6/1986



CASP S9 NOV. 24/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 726 DEPTH 50 M.
START TIME 24/11/ 85 20:59:55.5 GMT
FREQUENCY UNIT 0.1%



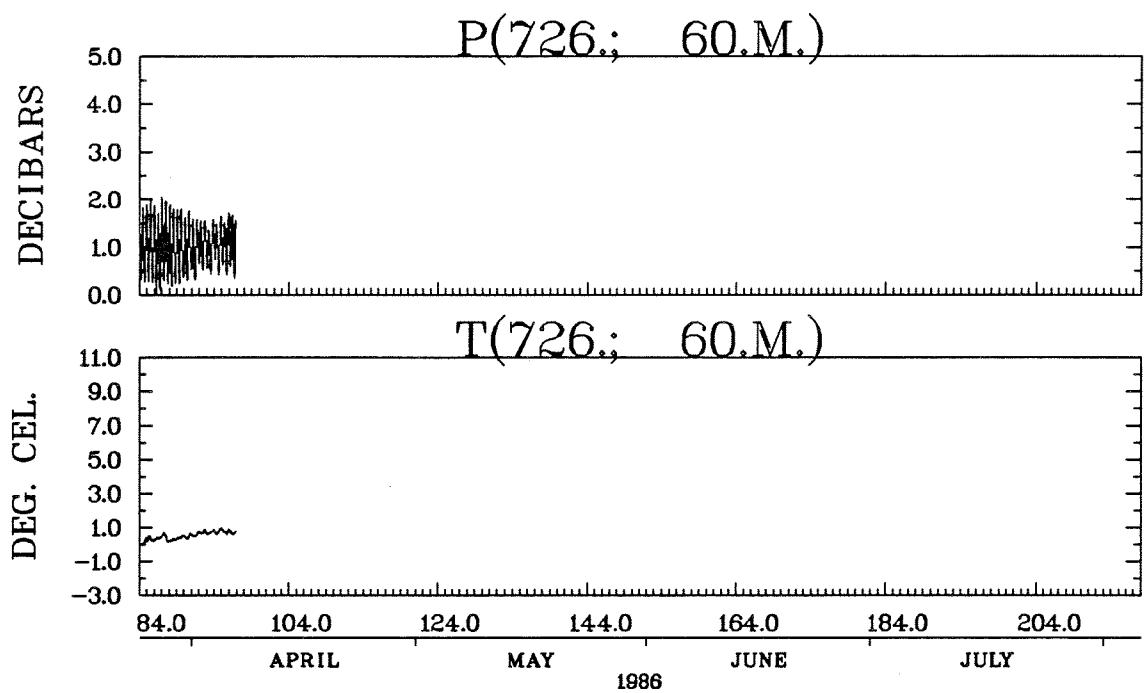
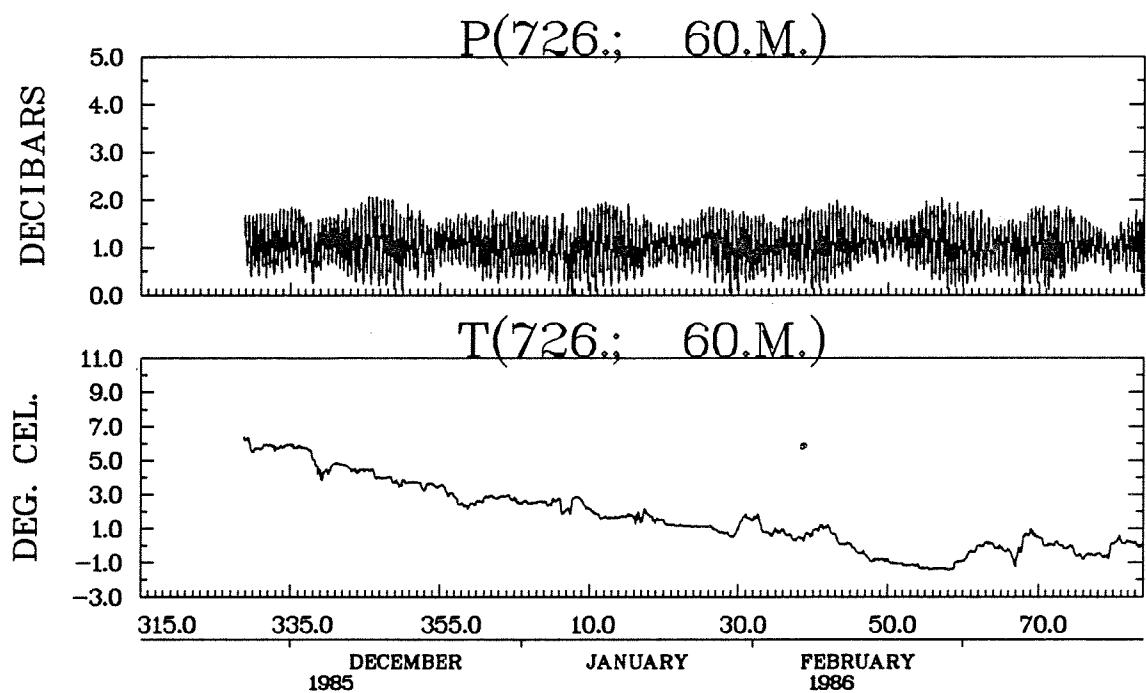
TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 726 DEPTH 50 M.
START TIME 24/11/ 85 20:59:55.5 GMT
FREQUENCY UNIT 0.1%

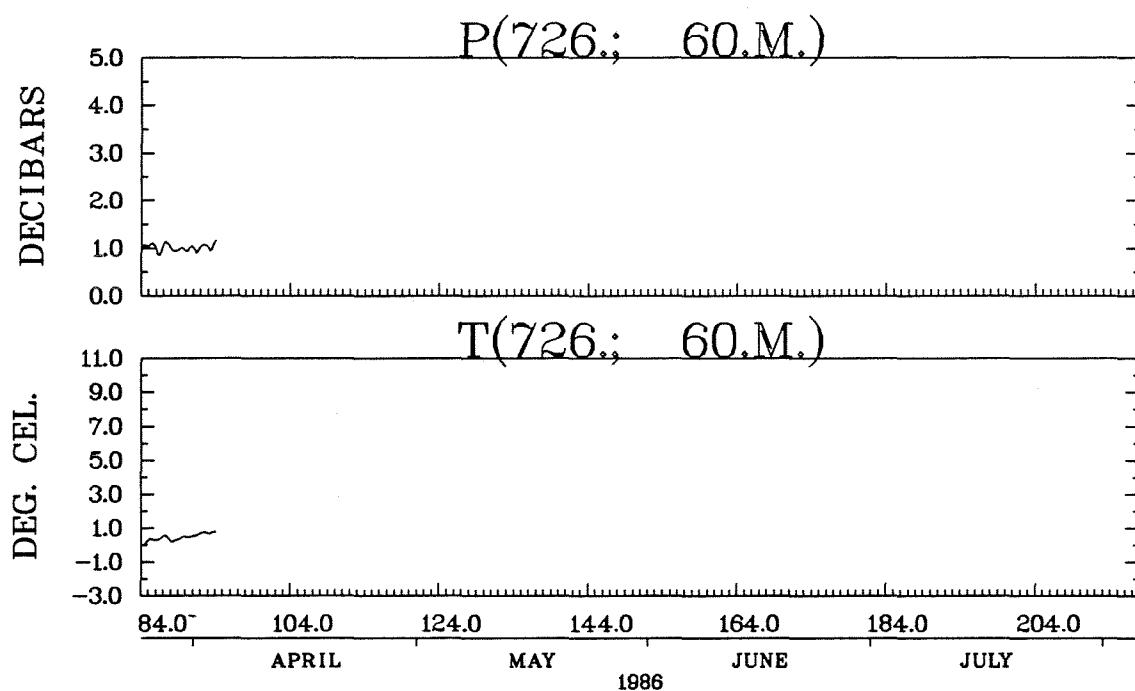
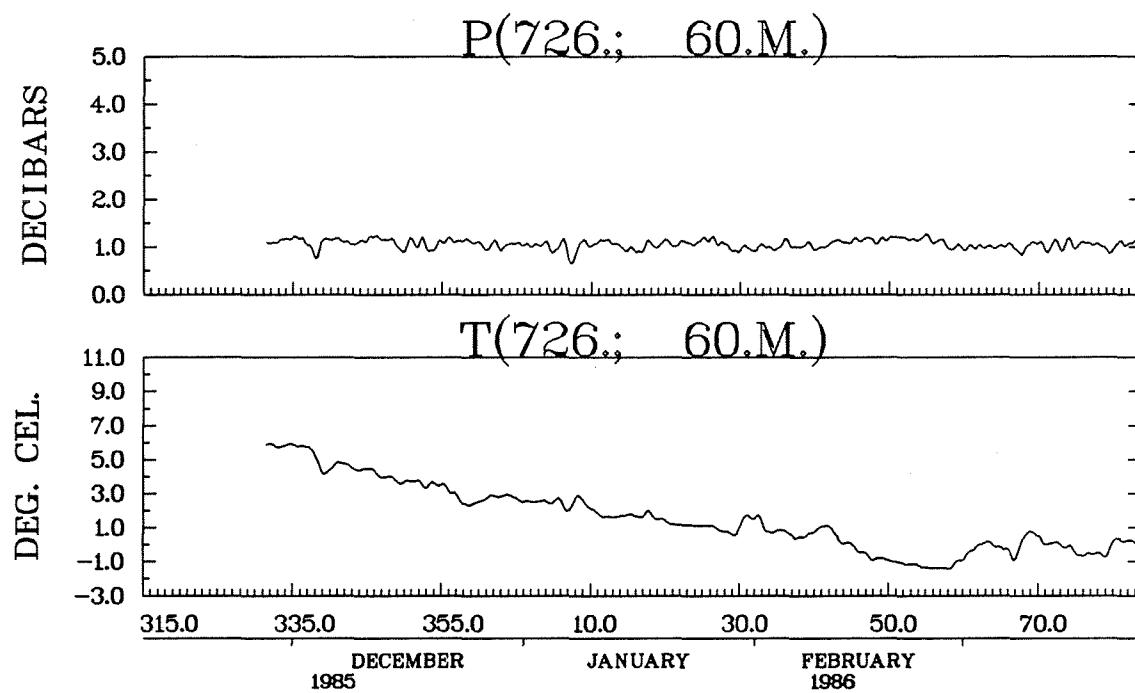
MOORING 726
DEPTH (M) 60

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 342
LATITUDE 44 52.44 N
LONGITUDE 61 54.99 W
WATER DEPTH (M) 60
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.08
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	1.546	-1.410	6.370	1.949	3194
PRESSURE(DECIBARS)	1.061	.000	2.060	.452	3194



CASP S9 NOV. 24/1985 – APRIL 6/1986



CASP S9 NOV. 24/1985 – APRIL 6/1986

HISTOGRAM OF T(726.; 60.M.) DEG. CEL.

BAND .GE.	NUMBER .LT.	PER IN BAND	PER CENT	
-2.00	-1.50	0	0.0	
-1.50	-1.00	205	6.4	*****
-1.00	-.50	234	7.3	*****
-.50	0.00	248	7.8	*****
0.00	.50	422	13.2	*****
.50	1.00	469	14.7	*****
1.00	1.50	225	7.0	*****
1.50	2.00	268	8.4	*****
2.00	2.50	159	5.0	*****
2.50	3.00	297	9.3	*****
3.00	3.50	53	1.7	*****
3.50	4.00	182	5.7	*****
4.00	4.50	95	3.0	*****
4.50	5.00	111	3.5	*****
5.00	5.50	12	.4	***
5.50	6.00	197	6.2	*****
6.00	6.50	17	.5	***
6.50	7.00	0	0.0	
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

294

TOTAL NO. OF SAMPLES 3194

OUTSIDE RANGE 0

MOORING 727
 DEPTH (M) 11

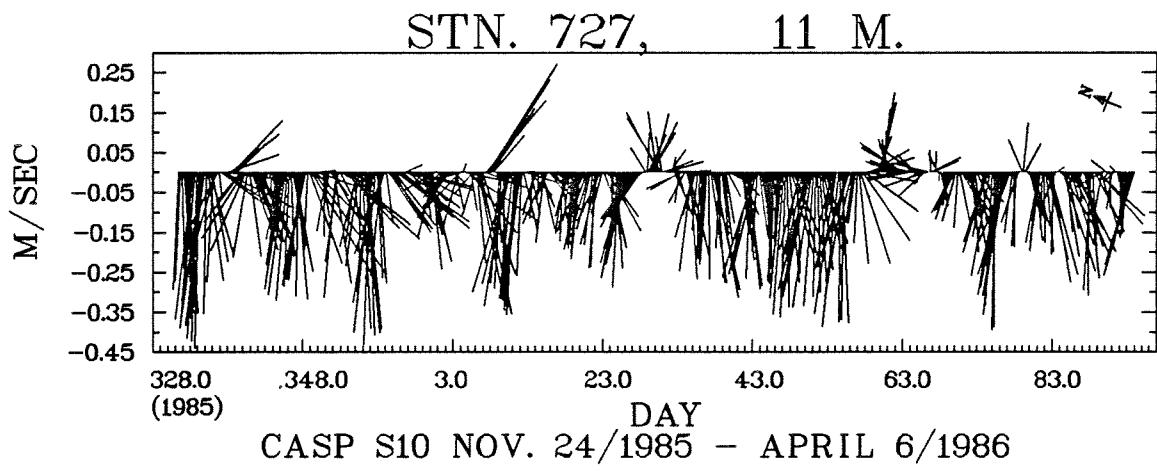
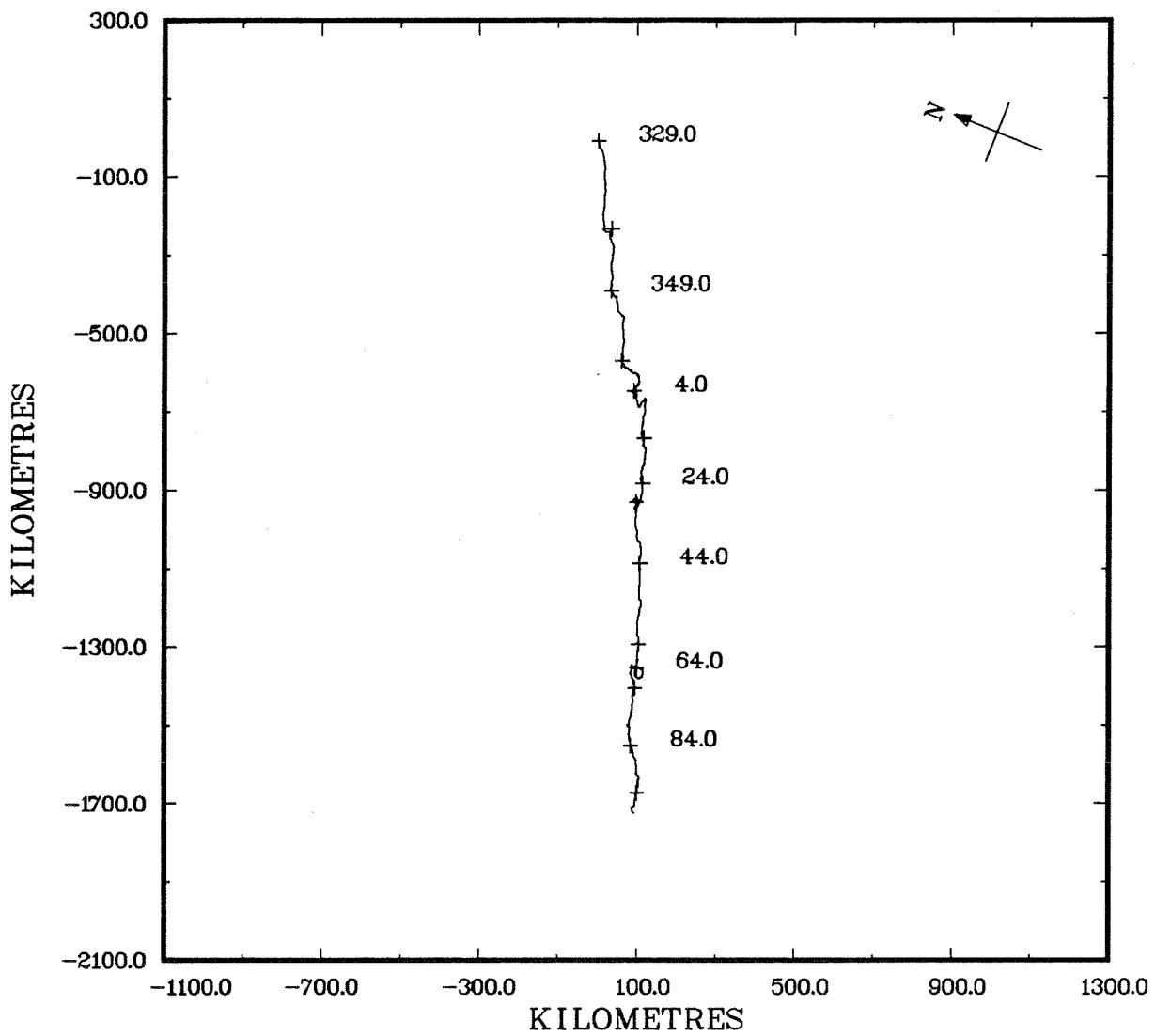
INSTRUMENT TYPE AANDERAA RCM
 SERIAL NUMBER 6405
 LATITUDE 44 47.34 N
 LONGITUDE 61 51.41 W
 WATER DEPTH (M) 100
 MOORING DATE ; CRUISE 24/11/1985 ; 85-040
 DURATION (DAYS) 133.06
 SAMPLE INTERVAL 30 MINUTES

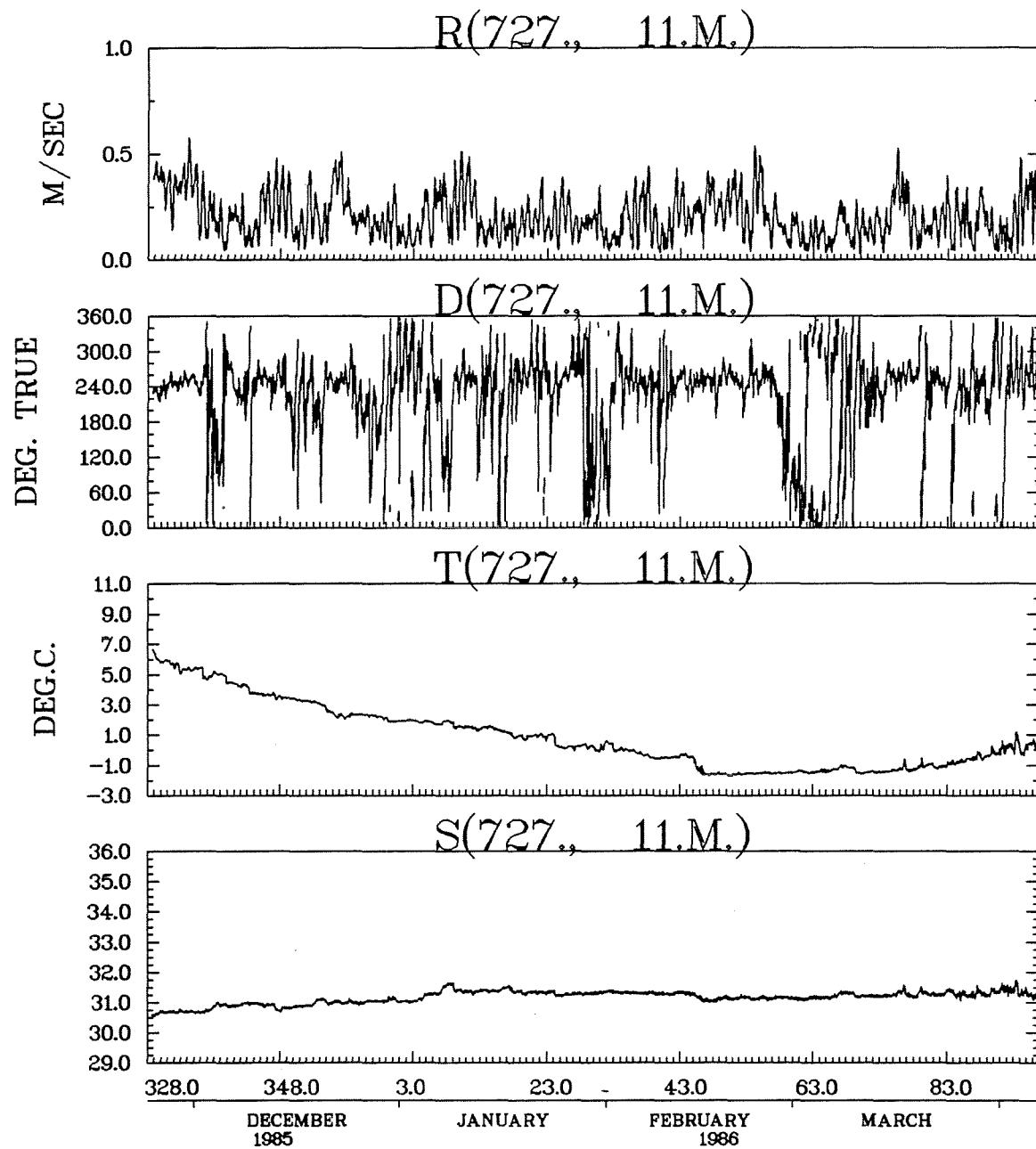
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.205	.027	.575	.106	6387
U(158° T) COMP VEL(M/S)	.008	-.374	.325	.085	6387
V(68° T) COMP VEL(M/S)	-.150	-.575	.375	.153	6387
TEMPERATURE(DEG.C.)	.873	-1.709	6.687	2.154	6387
SALINITY	31.161	30.554	31.728	.210	6387
SIGMA-T(KG/M**3)	24.936	23.967	25.406	.288	6387

COMMENTS

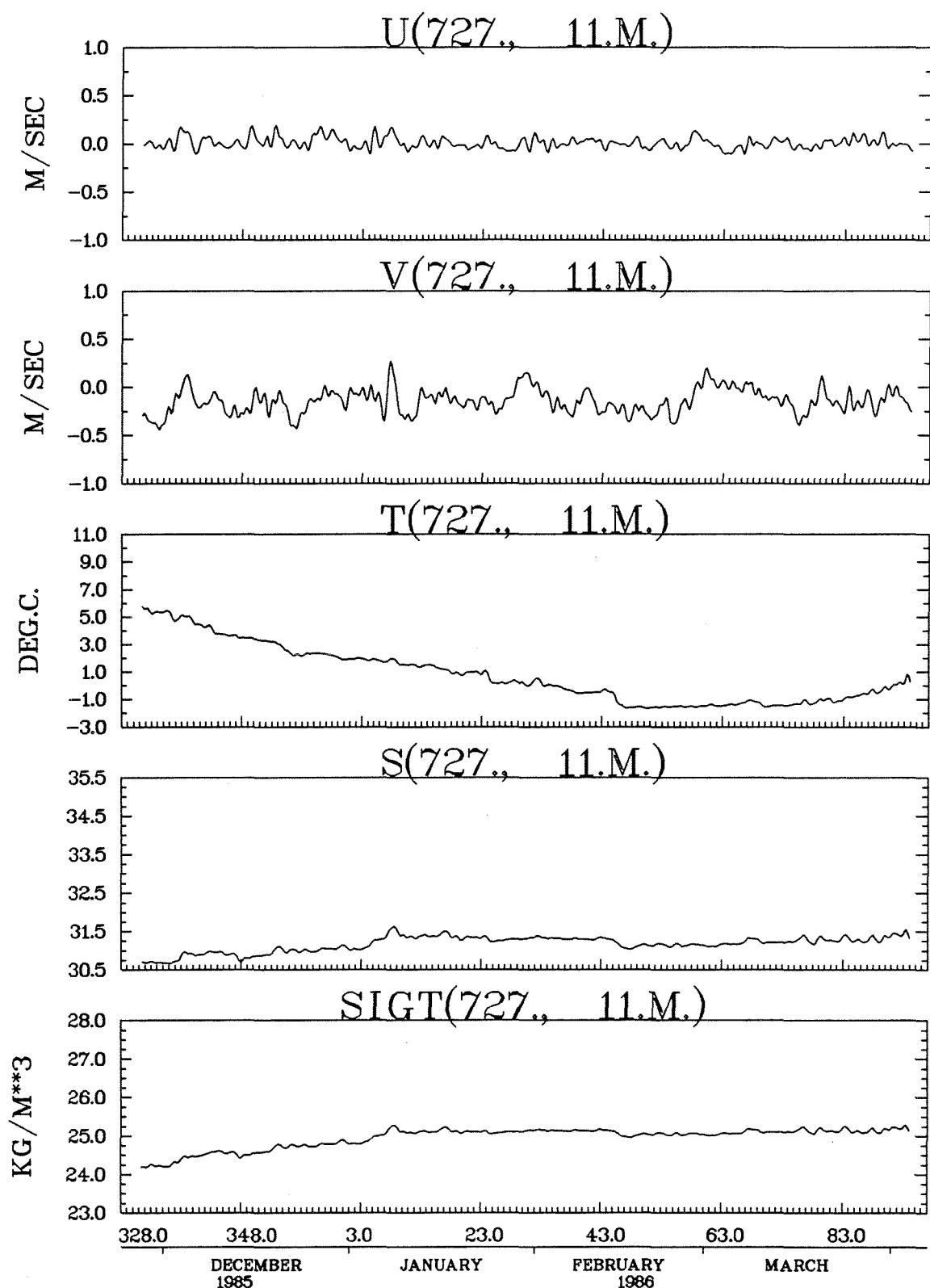
 PADDLE WHEEL ROTOR USED

STN. 727, 11 M.

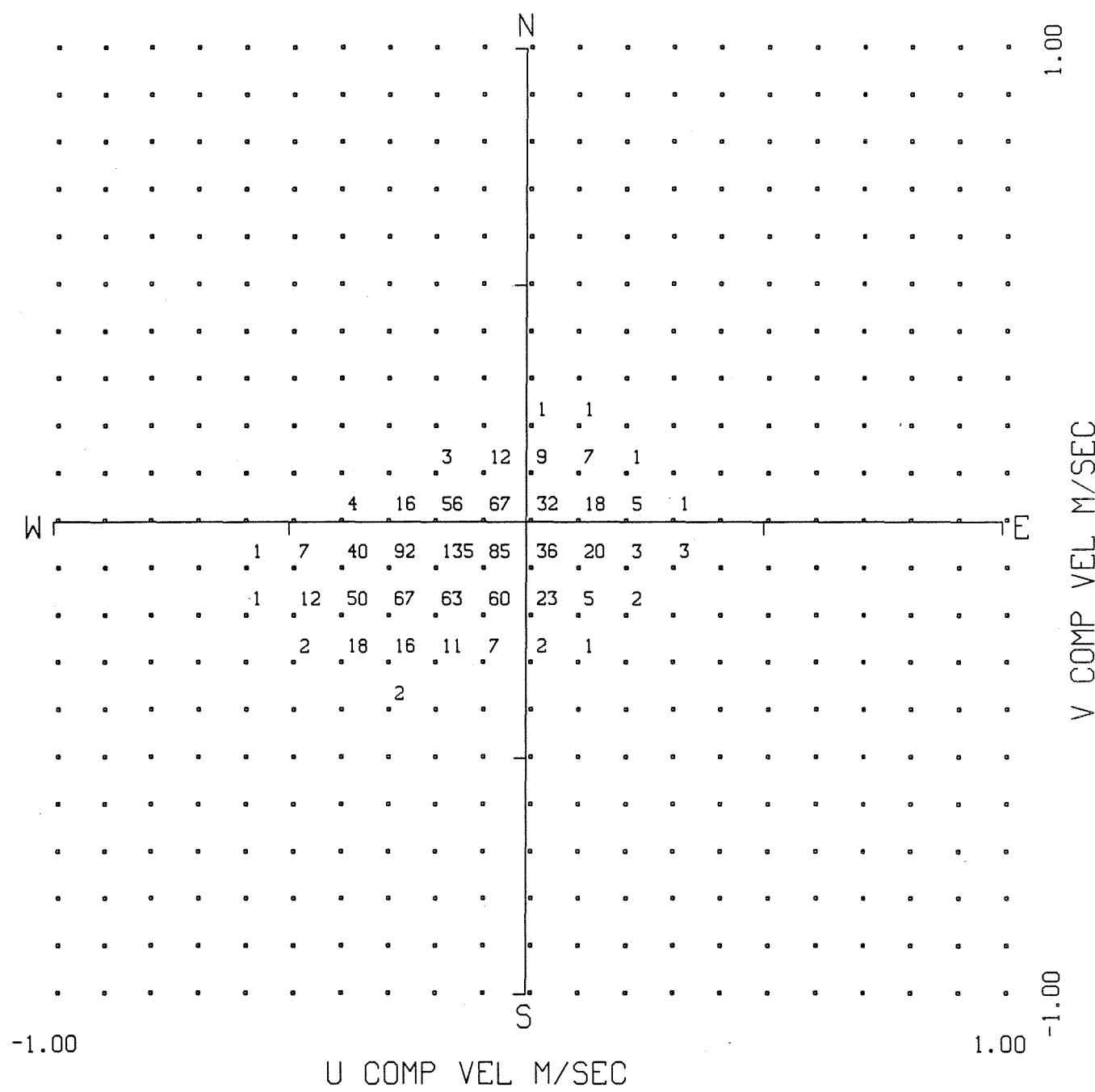




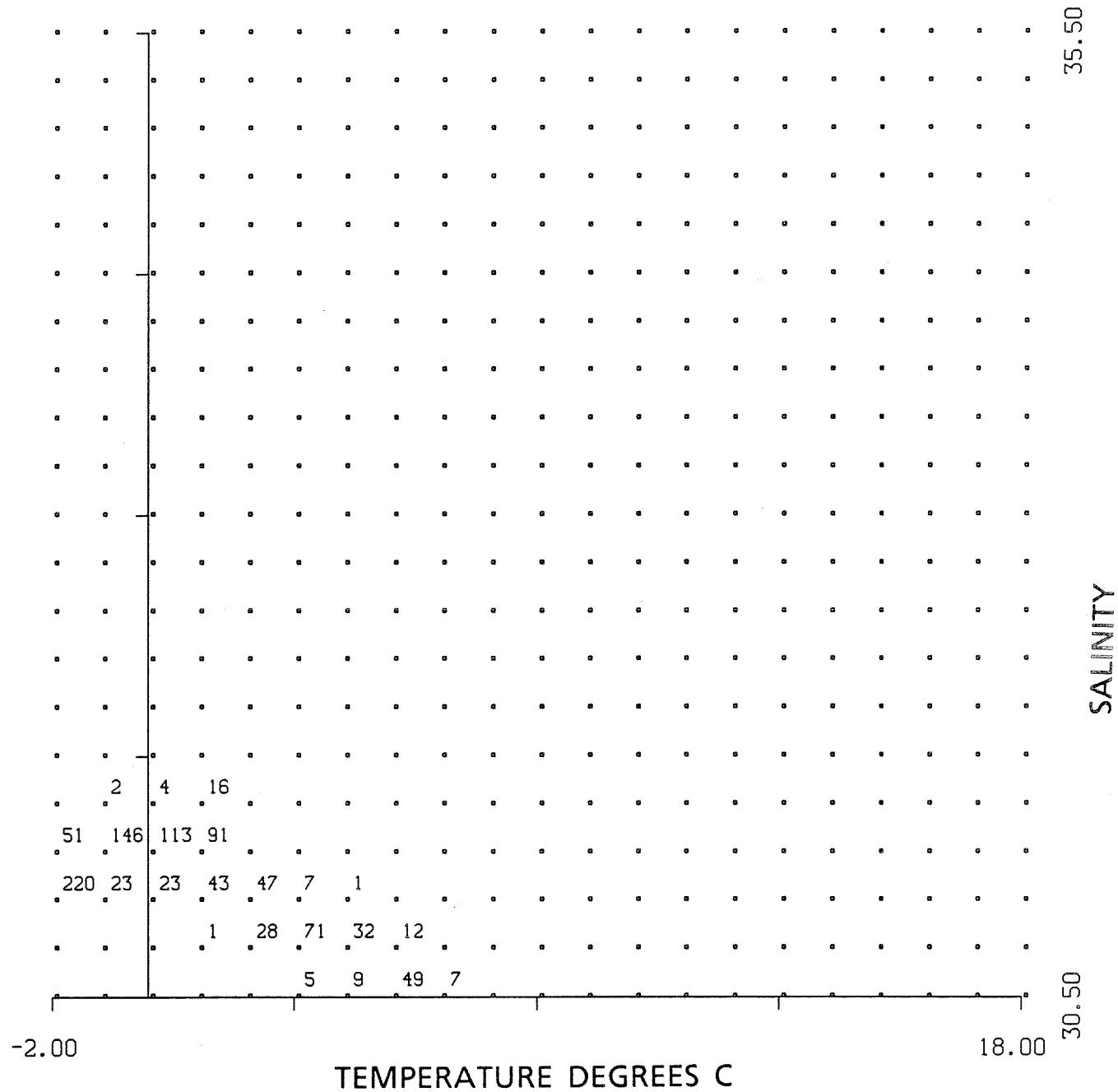
CASP S10 NOV. 24/1985 – APRIL 6/1986



CASP S10 NOV. 24/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 727 DEPTH 11 M.
 START TIME 24/11/ 85 18:59:55.5 GMT
 FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 727 DEPTH 11 M.
START TIME 24/11/ 85 18:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 727
DEPTH (M) 31

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 5574
LATITUDE 44 47.36 N
LONGITUDE 61 51.50 W
WATER DEPTH (M) 101
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 7.79
SAMPLE INTERVAL 30 MINUTES

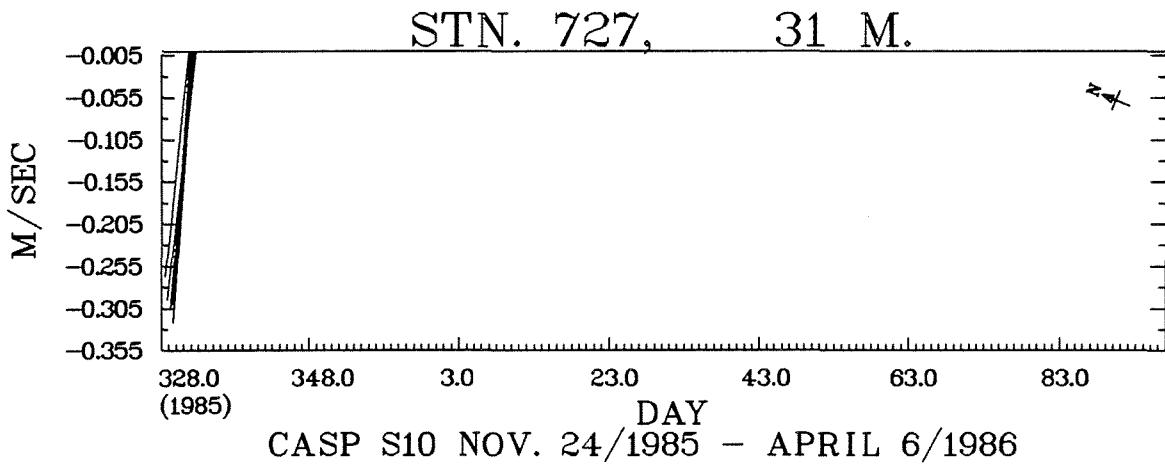
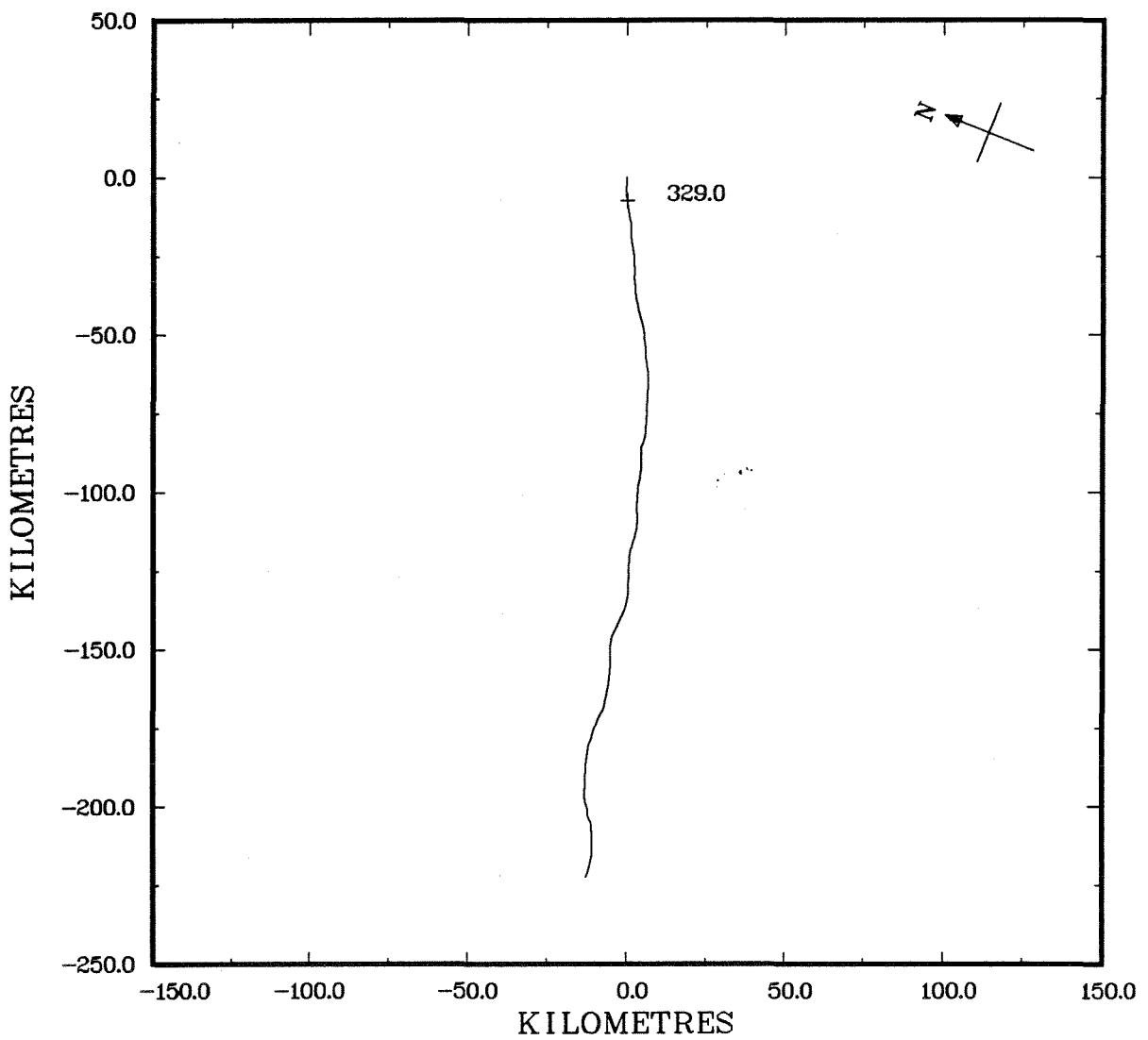
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.338	.106	.604	.093	374
U(158° T) COMP VEL(M/S)	-.019	-.177	.172	.060	374
V(68° T) COMP VEL(M/S)	-.332	-.601	-.097	.095	374
TEMPERATURE(DEG.C.)	5.569	4.687	6.376	.351	374
SALINITY	30.800	30.707	30.927	.041	374
SIGMA-T(KG/M**3)	24.284	24.129	24.428	.065	374

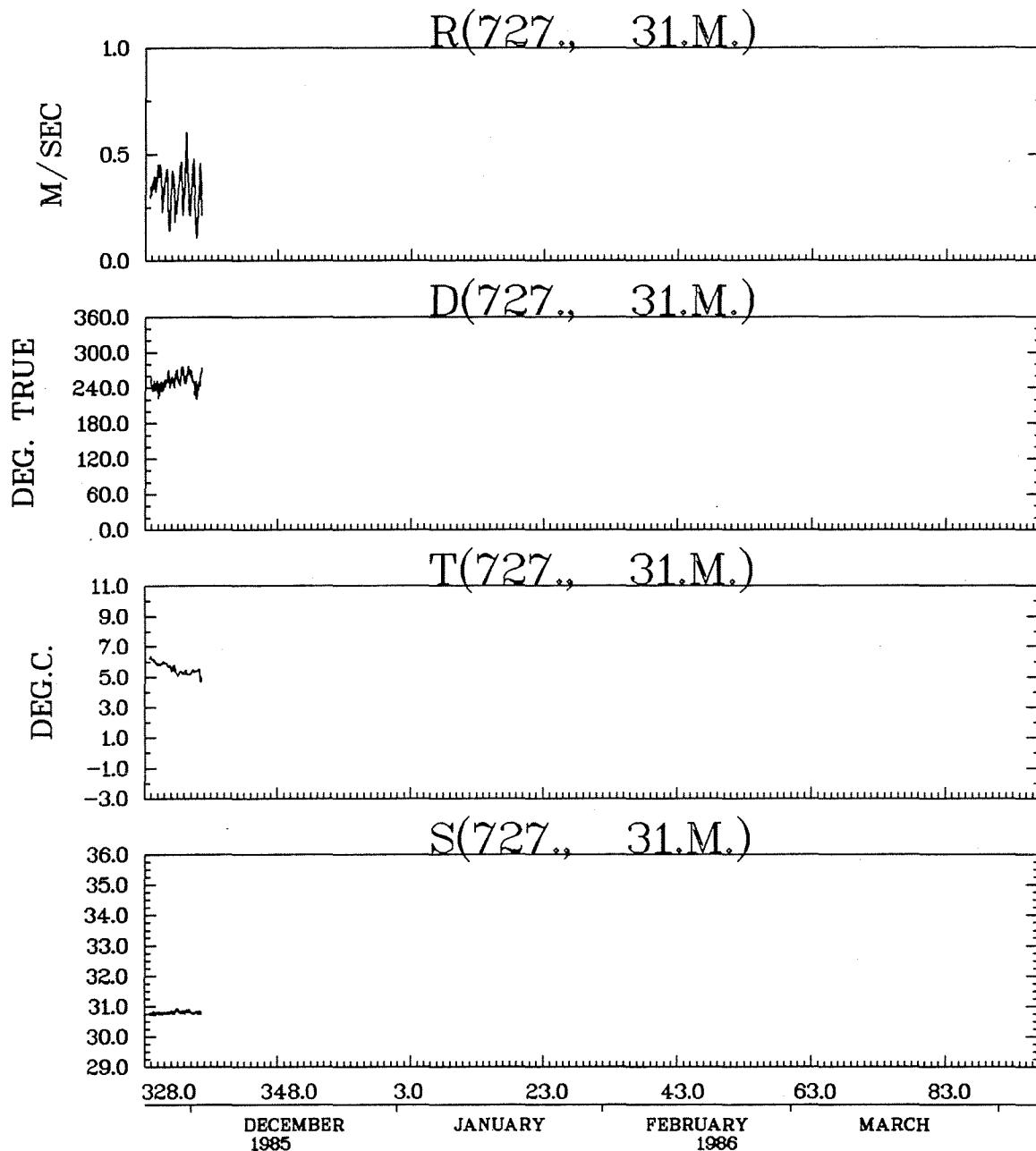
COMMENTS

VERY SHORT RECORD

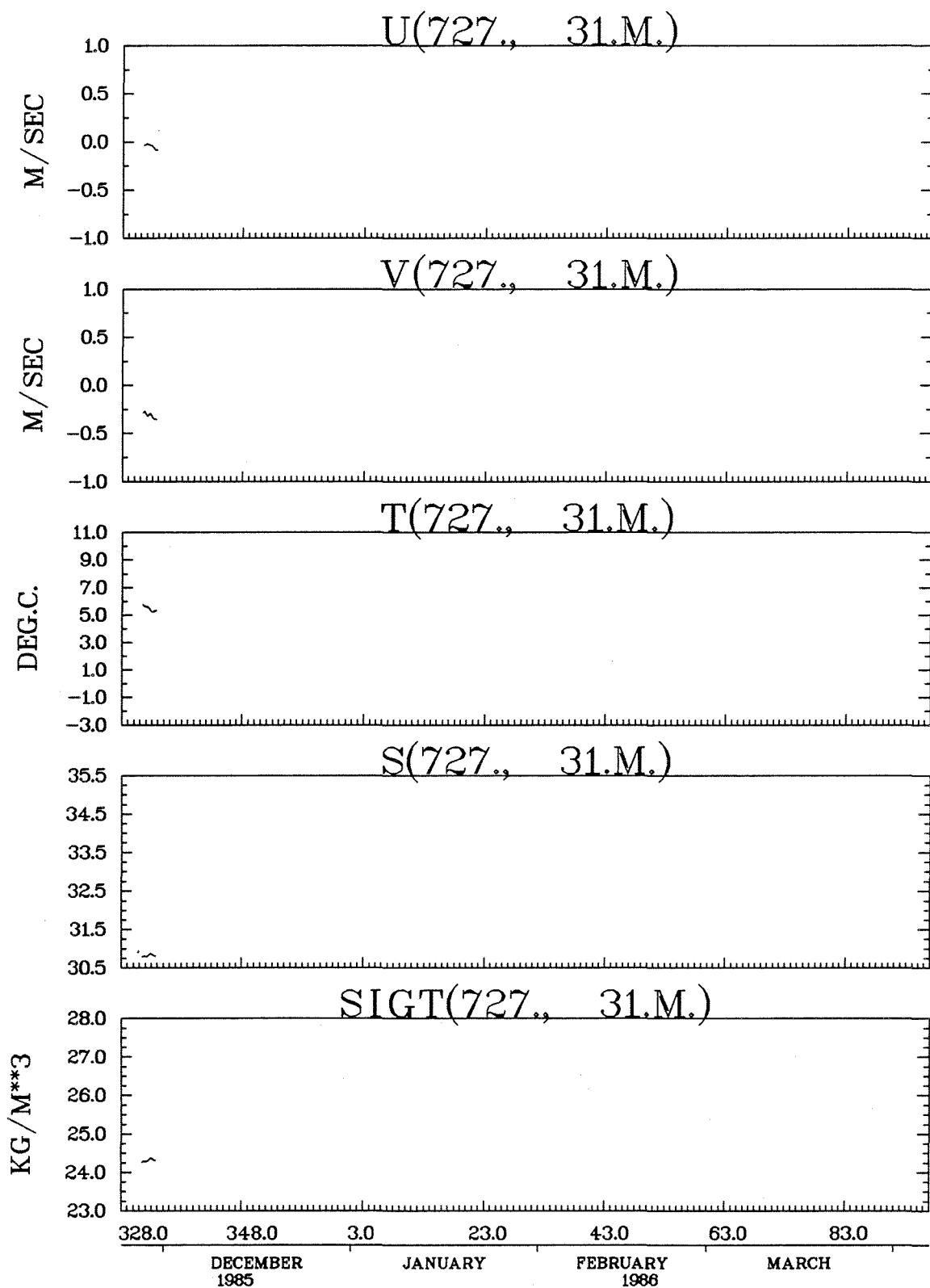
TAPE JAMMED ON CAPSTAN FROM DAY 336 1985 TO END OF RECORD

STN. 727, 31 M.

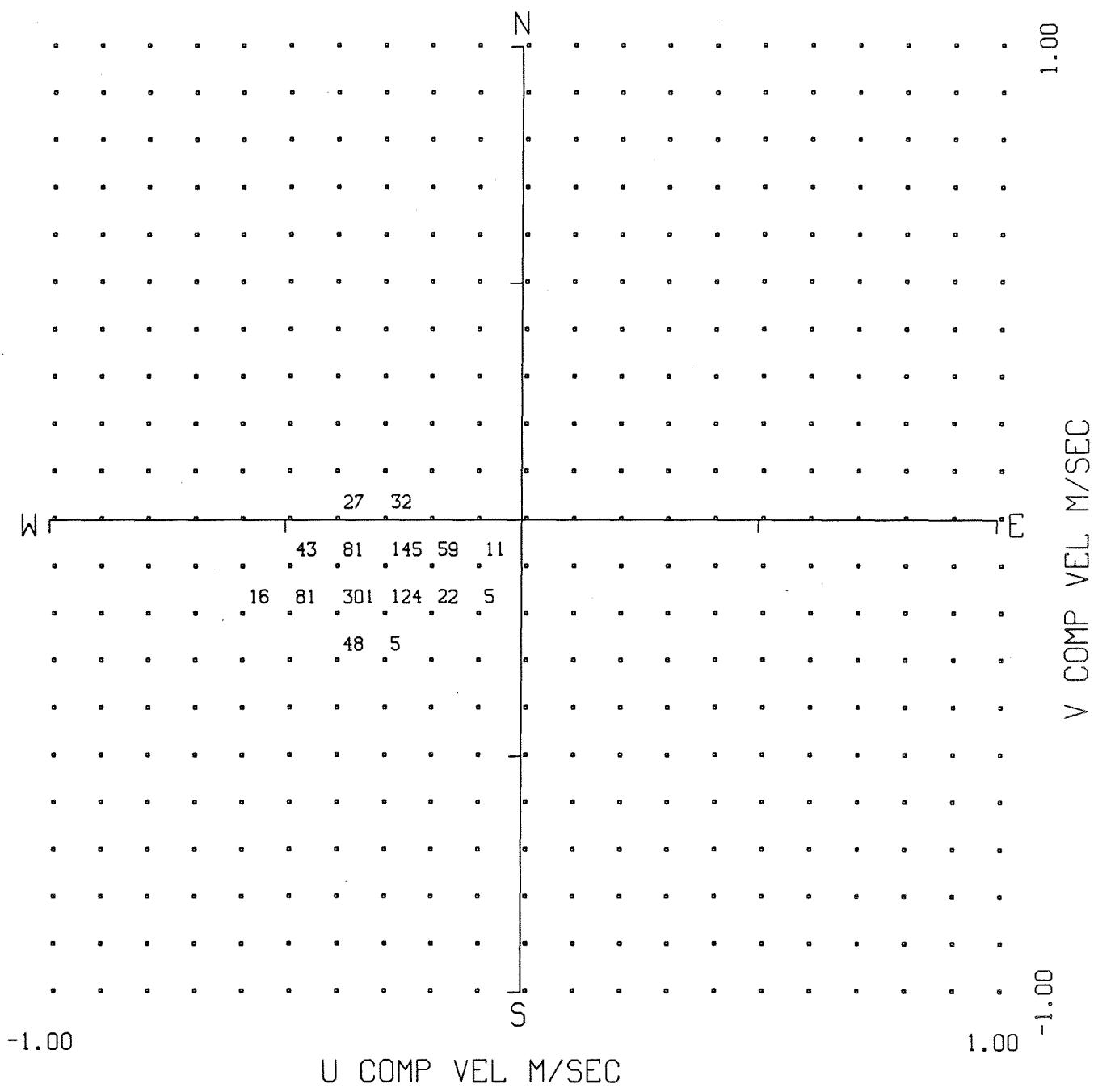




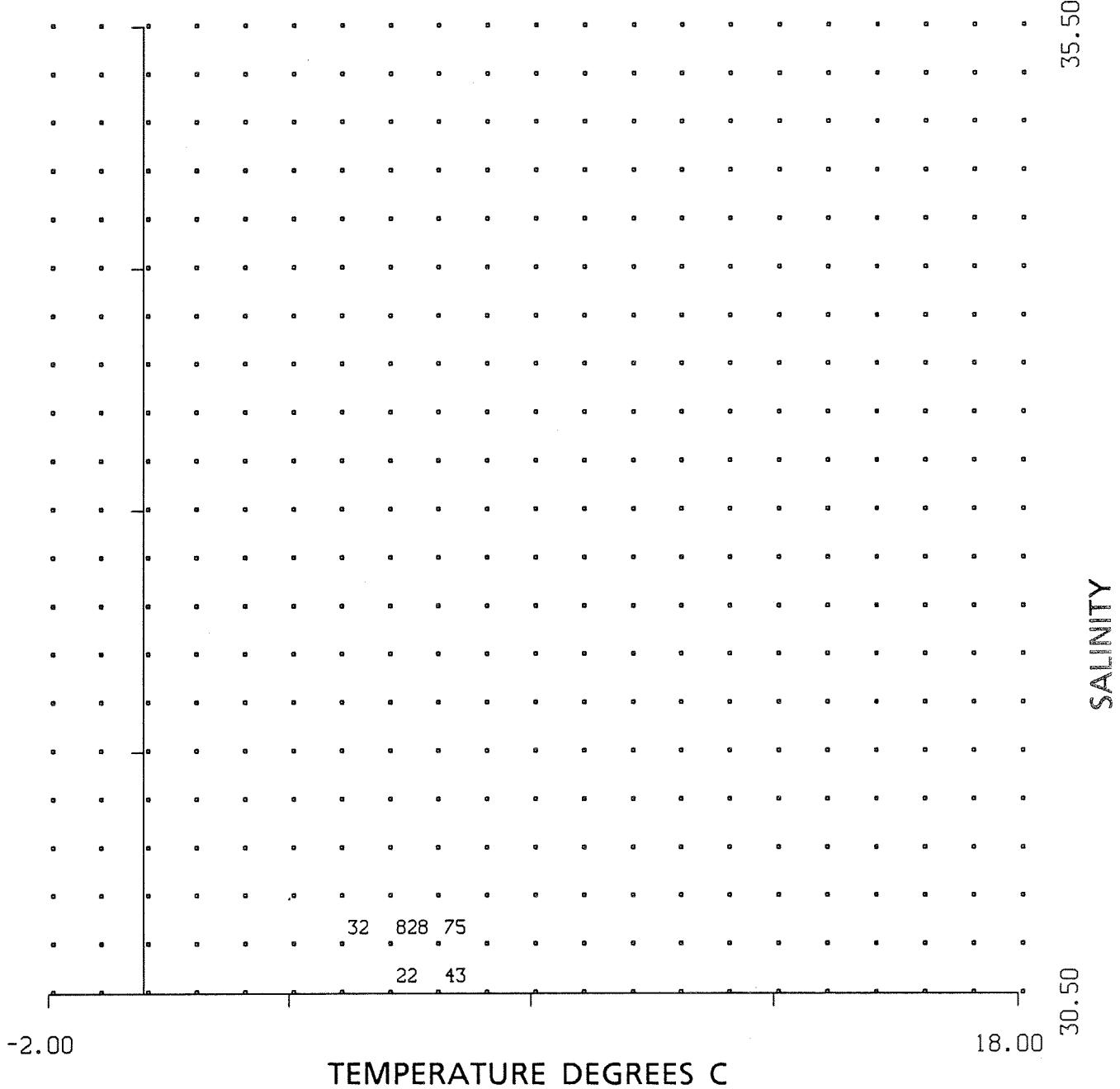
CASP S10 NOV. 24/1985 – APRIL 6/1986



CASP S10 NOV. 24/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 727 DEPTH 31 M.
 START TIME 24/11/ 85 18:59:55.5 GMT
 FREQUENCY UNIT 0.1%



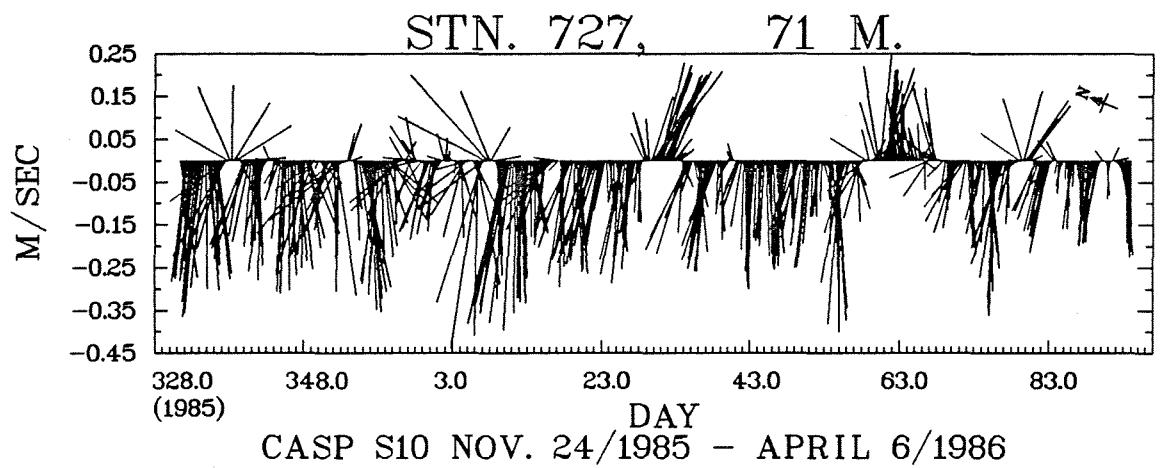
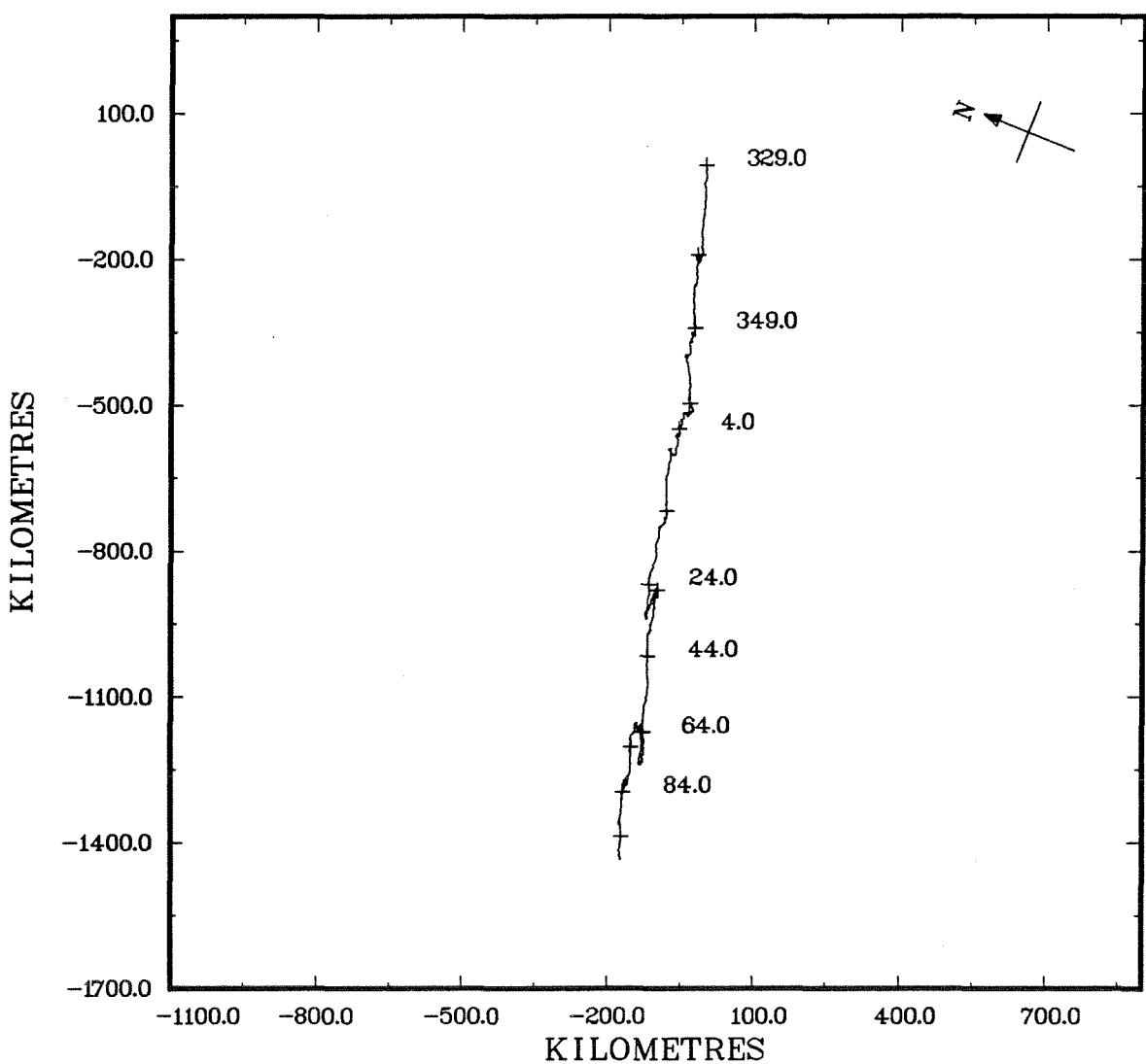
FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 727 DEPTH 31 M.
START TIME 24/11/ 85 18:59:55.5 GMT
FREQUENCY UNIT 0.1%

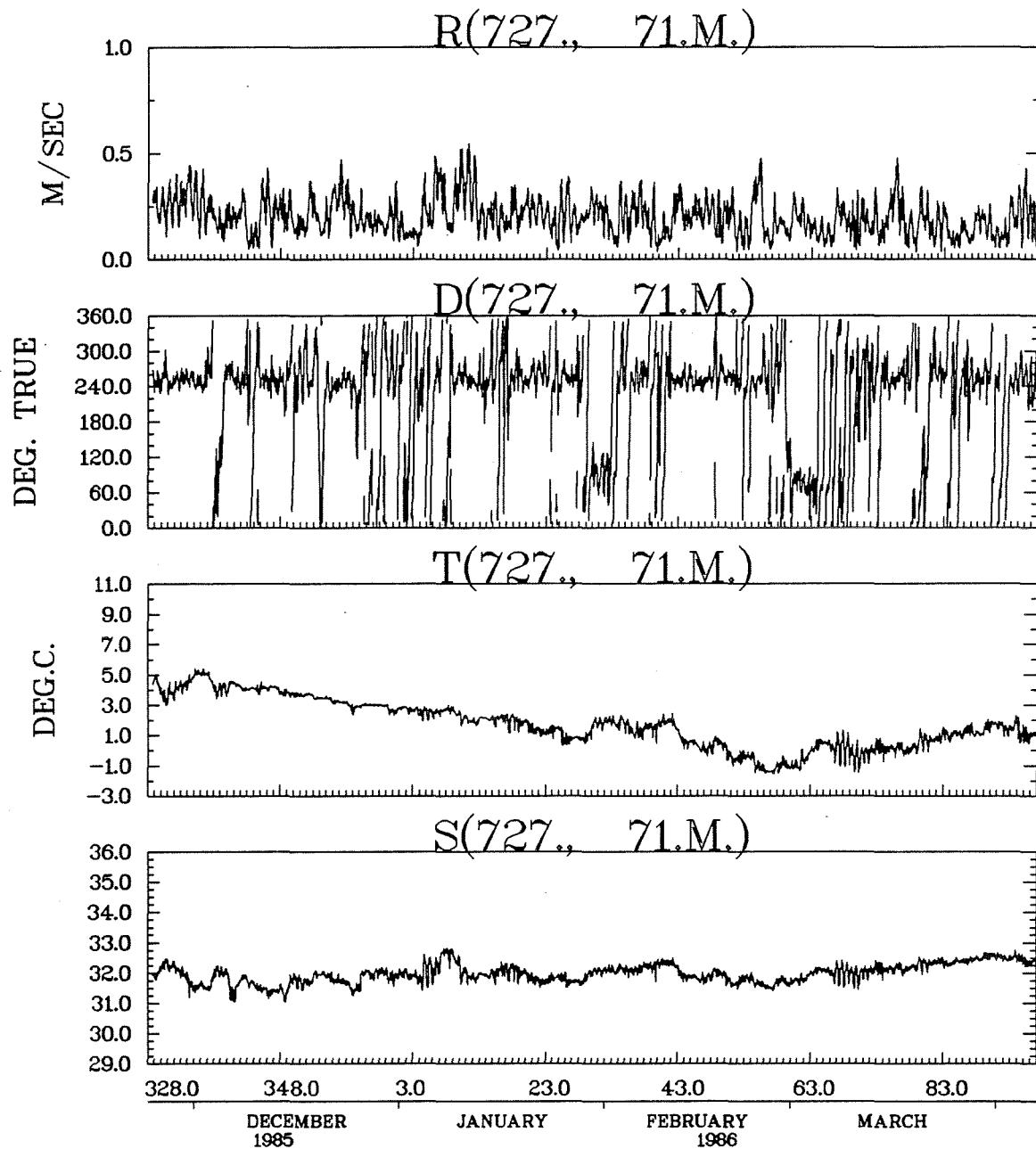
MOORING 727
DEPTH (M) 71

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 4604
LATITUDE 44 47.36 N
LONGITUDE 61 51.50 W
WATER DEPTH (M) 101
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.06
SAMPLE INTERVAL 30 MINUTES

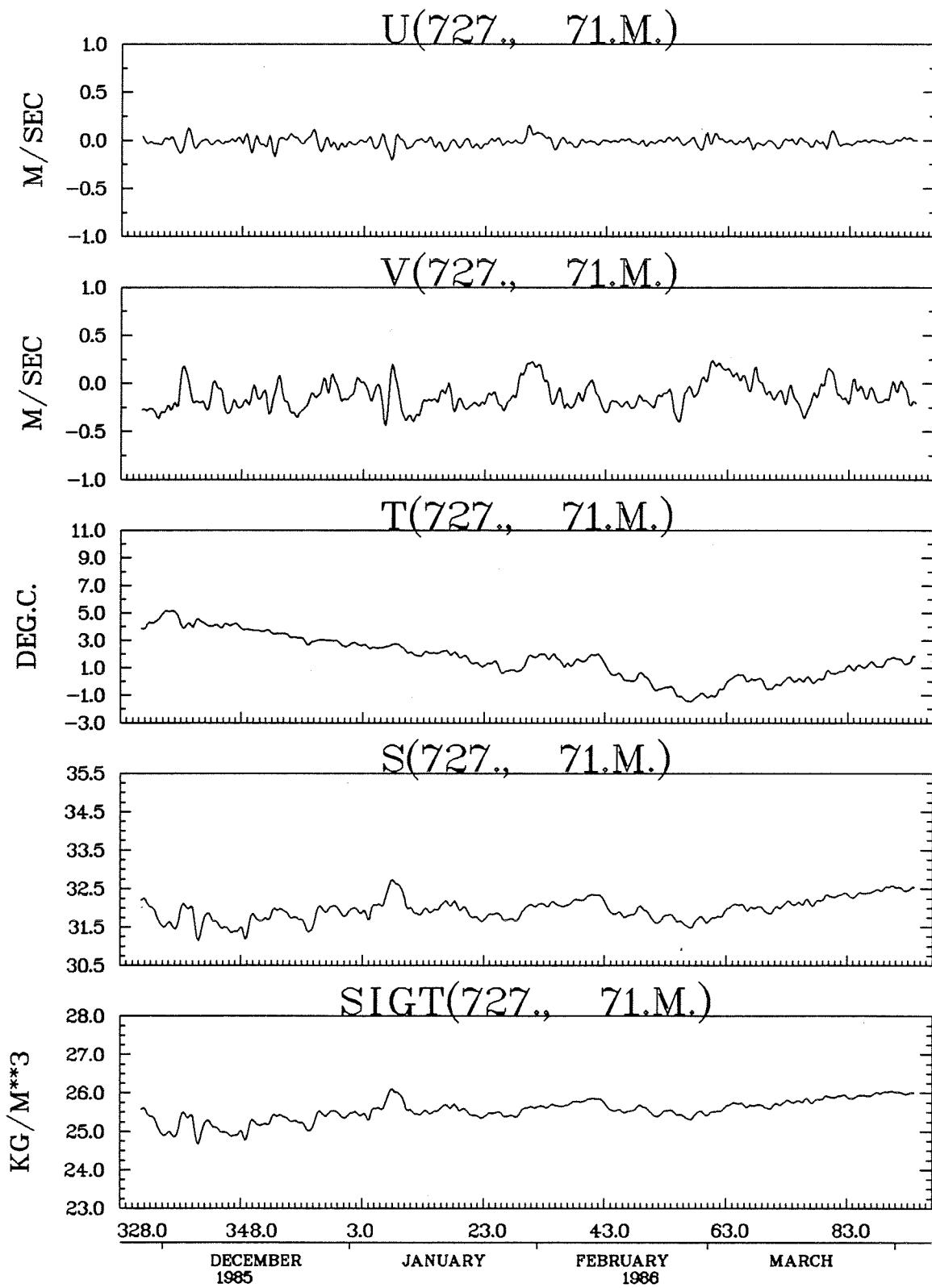
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.202	.035	.544	.086	6387
U(158° T) COMP VEL(M/S)	-.015	-.350	.257	.081	6387
V(68° T) COMP VEL(M/S)	-.125	-.538	.359	.161	6387
TEMPERATURE(DEG.C.)	1.747	-1.555	5.434	1.605	6387
SALINITY	31.972	31.046	32.816	.312	6387
SIGMA-T(KG/M**3)	25.548	24.601	26.156	.295	6387

STN. 727, 71 M.

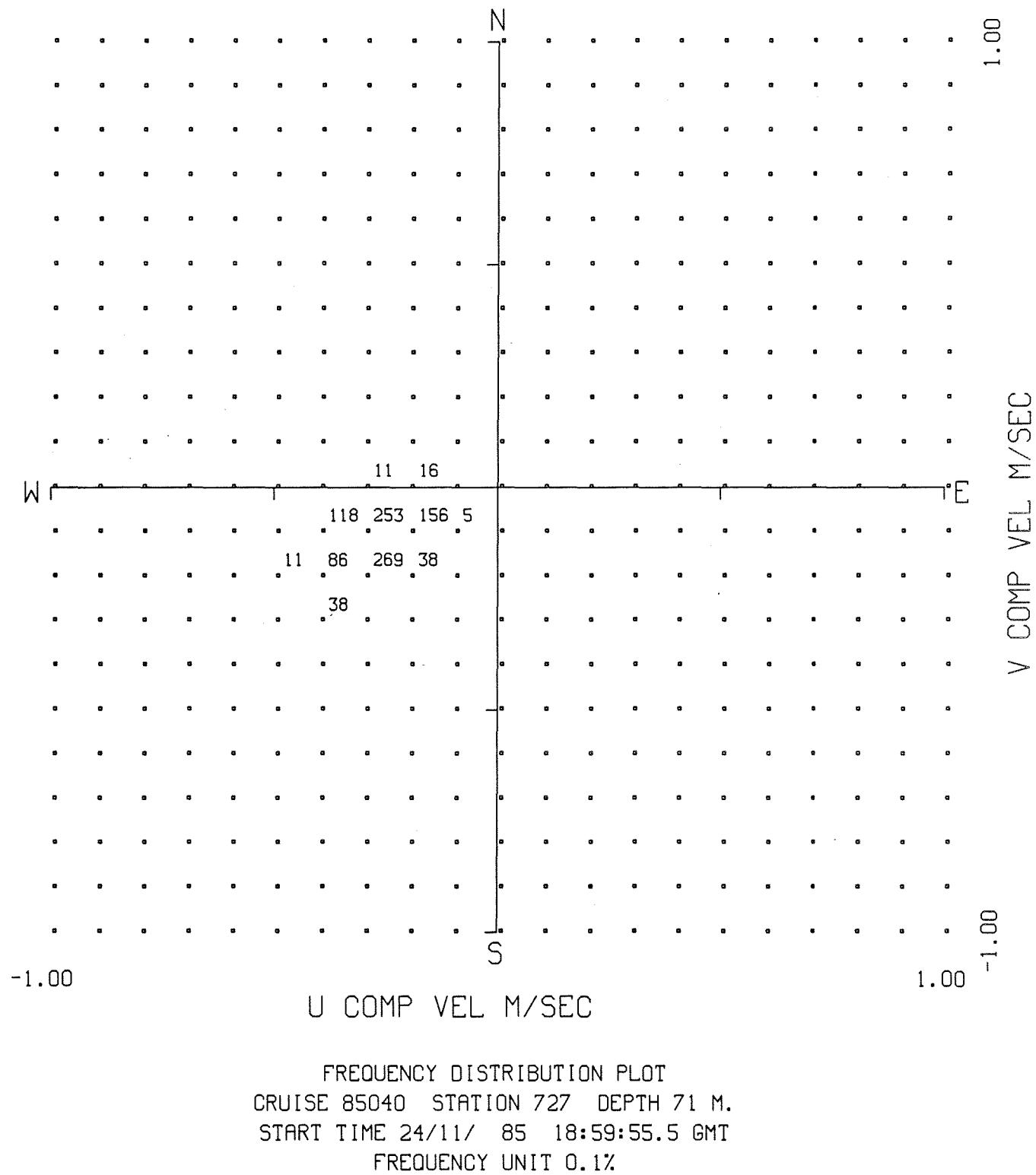




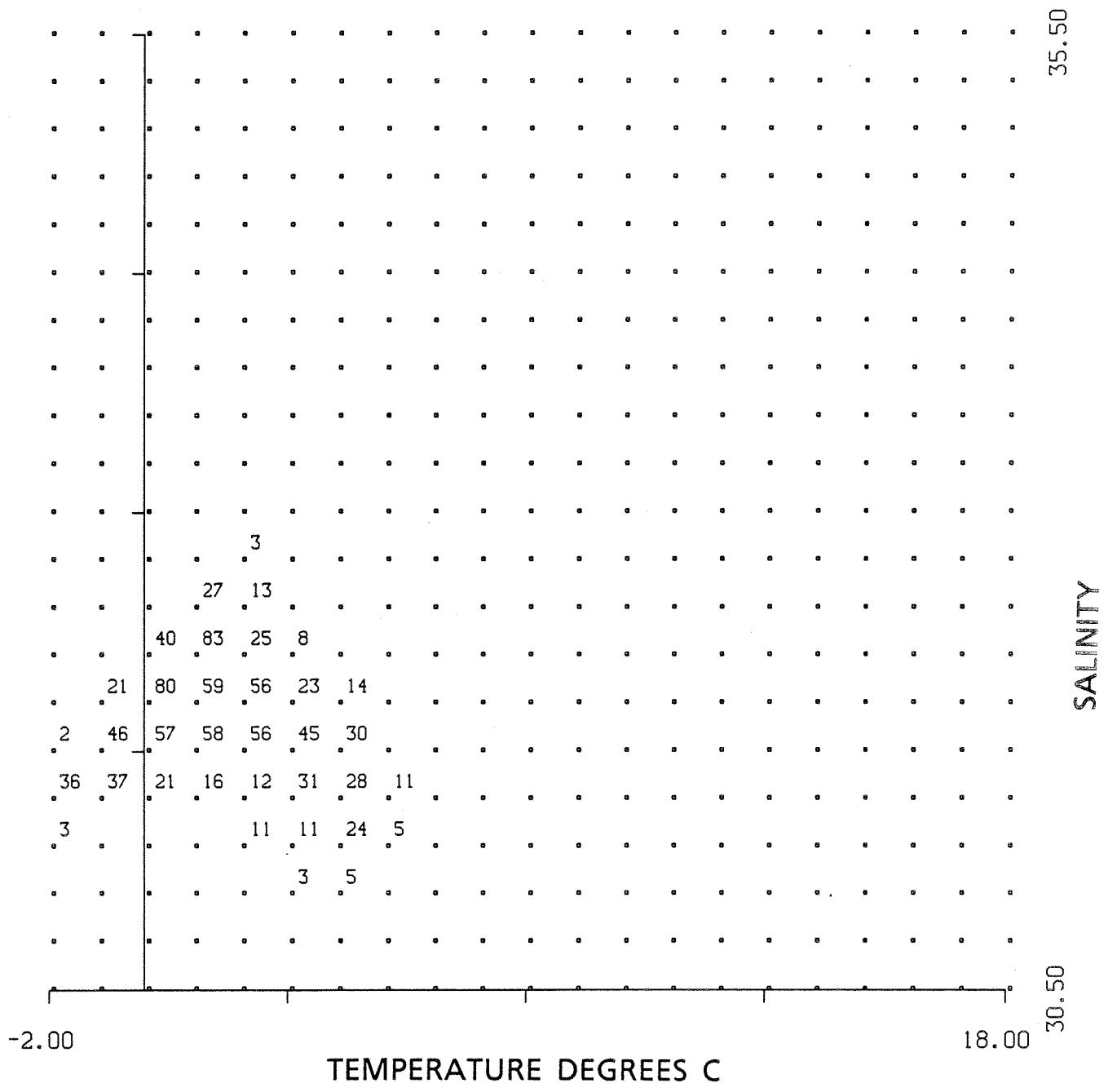
CASP S10 NOV. 24/1985 – APRIL 6/1986



CASP S10 NOV. 24/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 727 DEPTH 71 M.
START TIME 24/11/ 85 18:59:55.5 GMT
FREQUENCY UNIT 0.1%

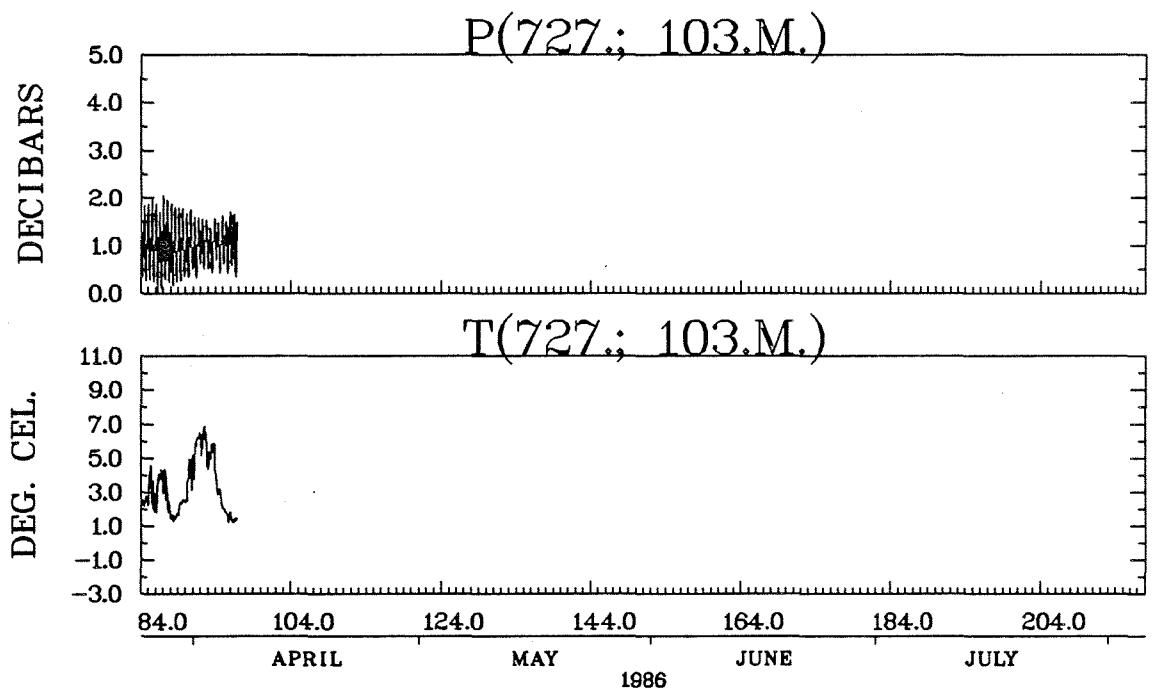
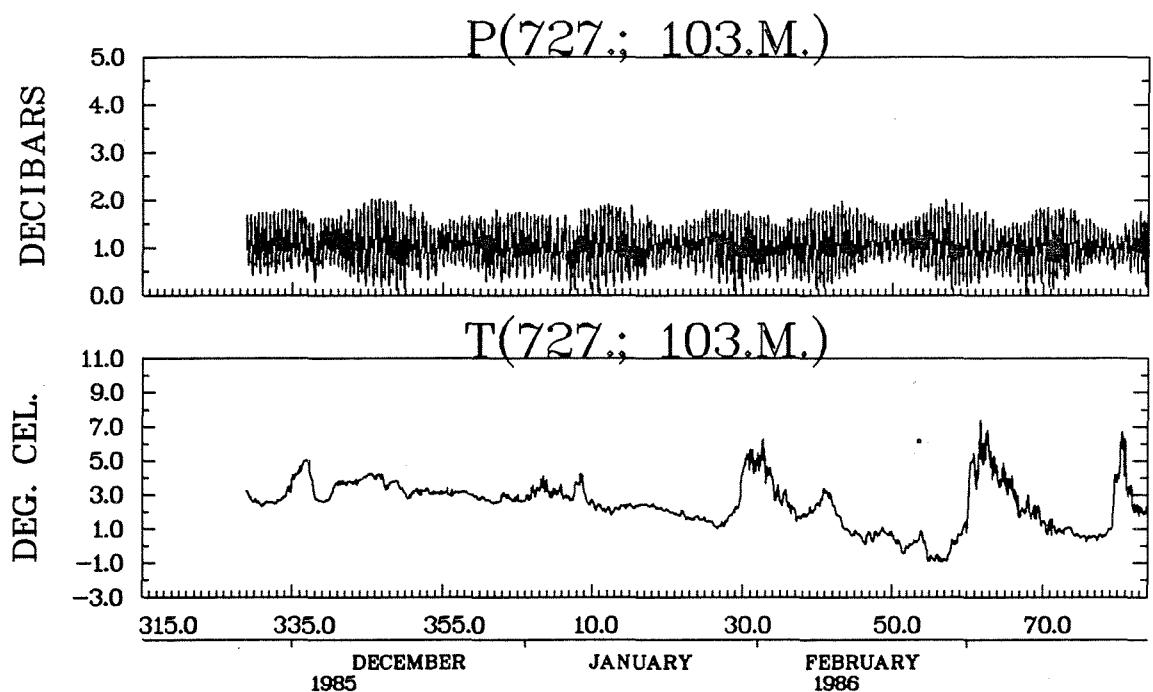


FREQUENCY DISTRIBUTION PLOT
 CRUISE 85040 STATION 727 DEPTH 71 M.
 START TIME 24/11/ 85 18:59:55.5 GMT
 FREQUENCY UNIT 0.1%

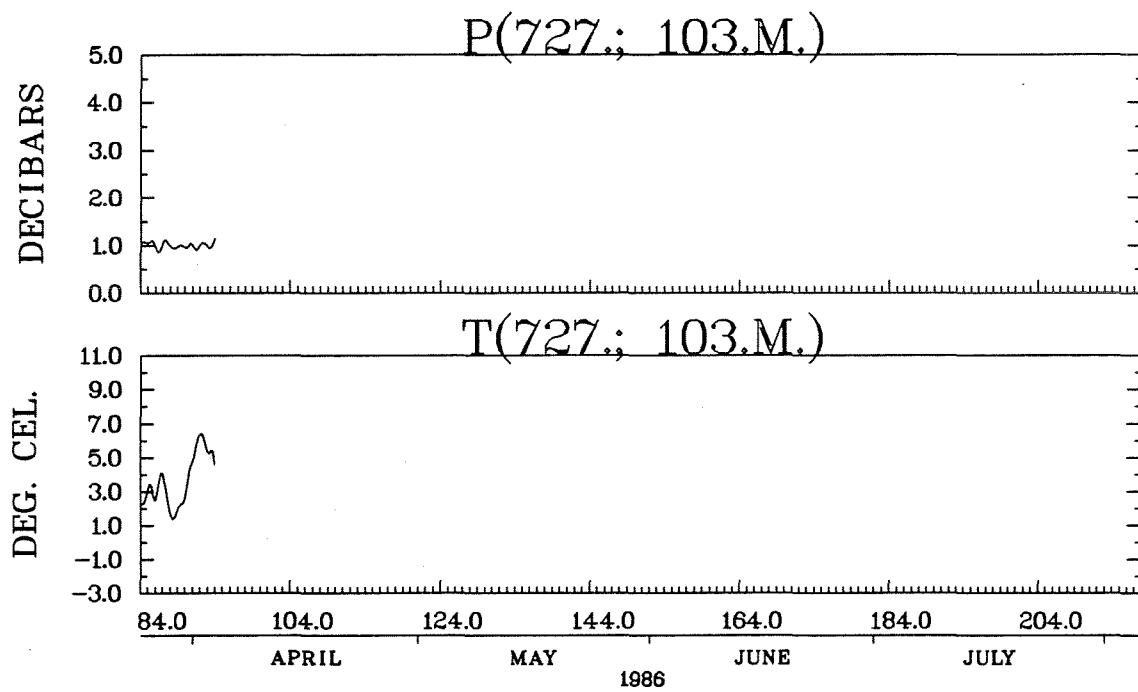
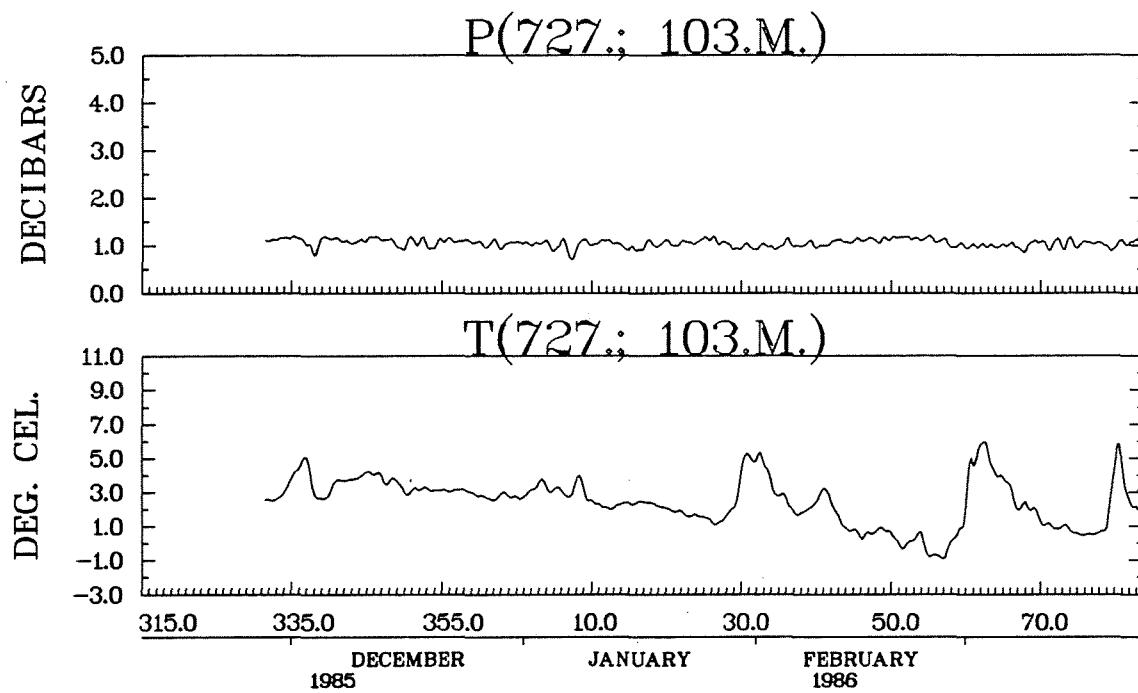
MOORING 727
DEPTH (M) 103

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 989
LATITUDE 44 47.28 N
LONGITUDE 61 51.30 W
WATER DEPTH (M) 103
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.08
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	2.531	-.950	7.350	1.439	3194
PRESSURE(DECIBARS)	1.051	.000	2.050	.448	3194



CASP S10 NOV. 24/1985 – APRIL 6/1986



CASP S10 NOV. 24/1985 – APRIL 6/1986

HISTOGRAM OF T(727.; 103.M.) DEG. CEL.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.50	0	0.0
-1.50	-1.00	0	0.0
-1.00	-.50	68	2.1 *****
-.50	0.00	38	1.2 *****
0.00	.50	131	4.1 *****
.50	1.00	288	9.0 *****
1.00	1.50	214	6.7 *****
1.50	2.00	309	9.7 *****
2.00	2.50	451	14.1 *****
2.50	3.00	542	17.0 *****
3.00	3.50	456	14.3 *****
3.50	4.00	253	7.9 *****
4.00	4.50	179	5.6 *****
4.50	5.00	85	2.7 *****
5.00	5.50	86	2.7 *****
5.50	6.00	40	1.3 *****
6.00	6.50	39	1.2 *****
6.50	7.00	13	.4 ***
7.00	7.50	2	.1 *
7.50	8.00	0	0.0

TOTAL NO. OF SAMPLES 3194

OUTSIDE RANGE 0

MOORING 728
DEPTH (M) 11

INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 6403
LATITUDE 44 35.02 N
LONGITUDE 61 45.58 W
WATER DEPTH (M) 155
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.04
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.230	.024	.663	.111	6386
U(158° T) COMP VEL(M/S)	-.017	-.449	.575	.113	6386
V(68° T) COMP VEL(M/S)	-.172	-.655	.446	.150	6386
TEMPERATURE(DEG.C.)	1.378	-1.597	7.733	2.056	6386
SALINITY	31.482	30.755	32.130	.272	6386
SIGMA-T(KG/M**3)	25.167	24.113	25.696	.314	6386

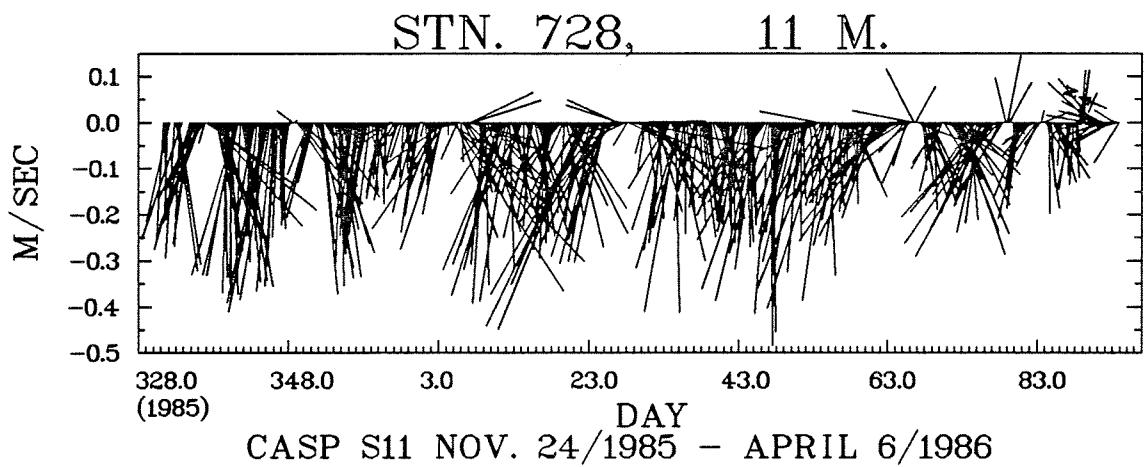
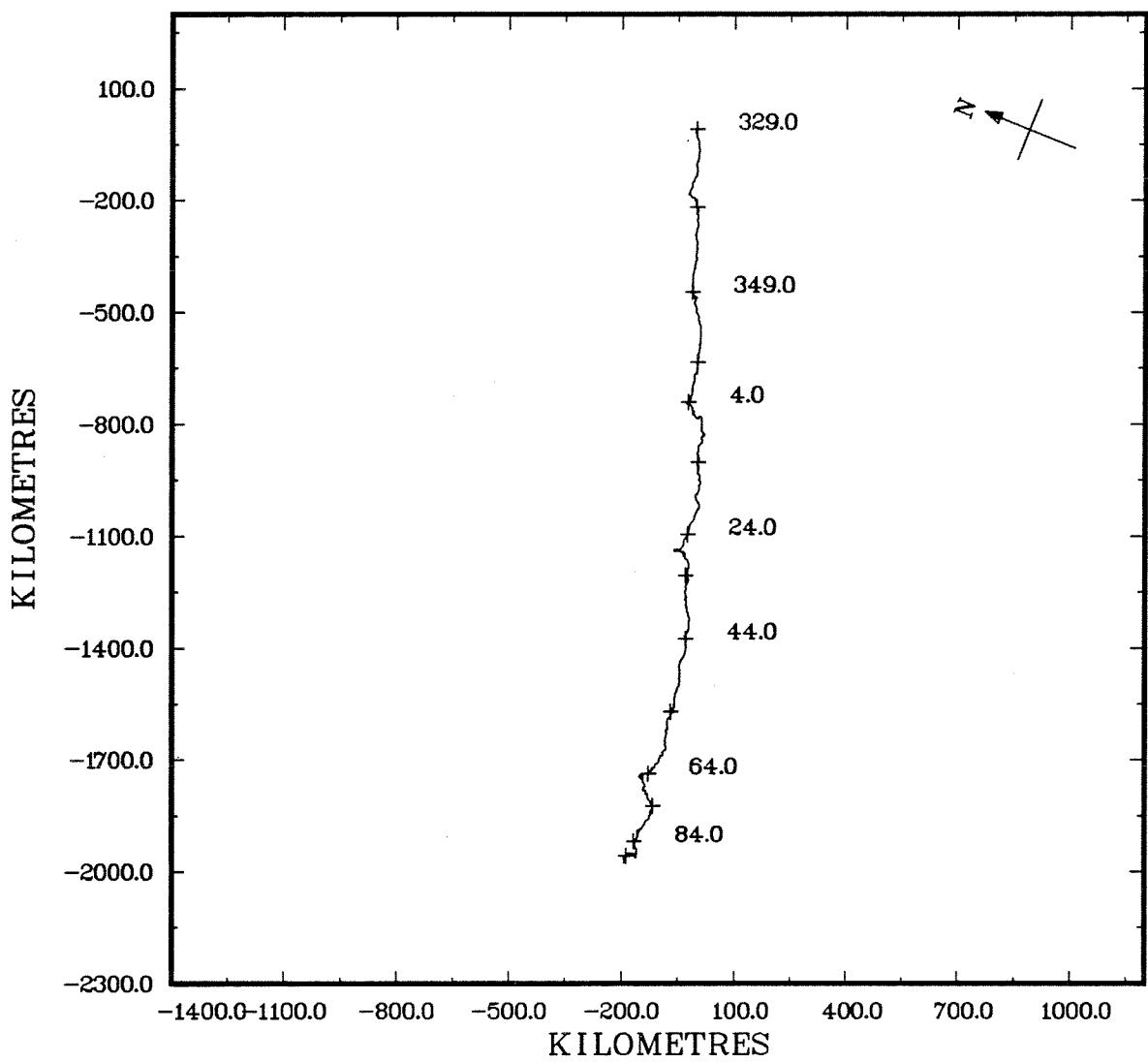
COMMENTS

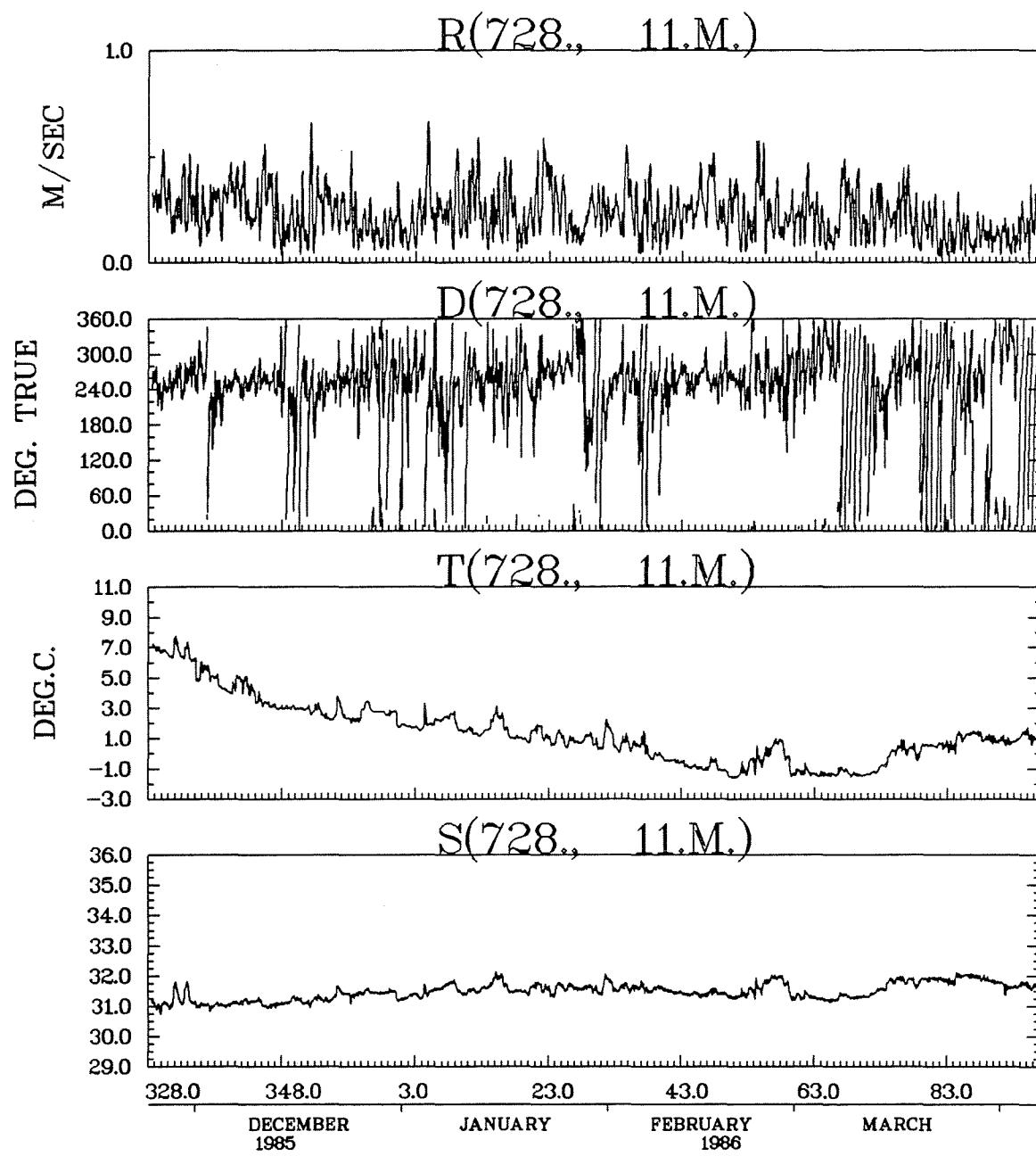
PADDLE WHEEL USED

2 EXTRA CYCLES AFTER 'OUT OF WATER'

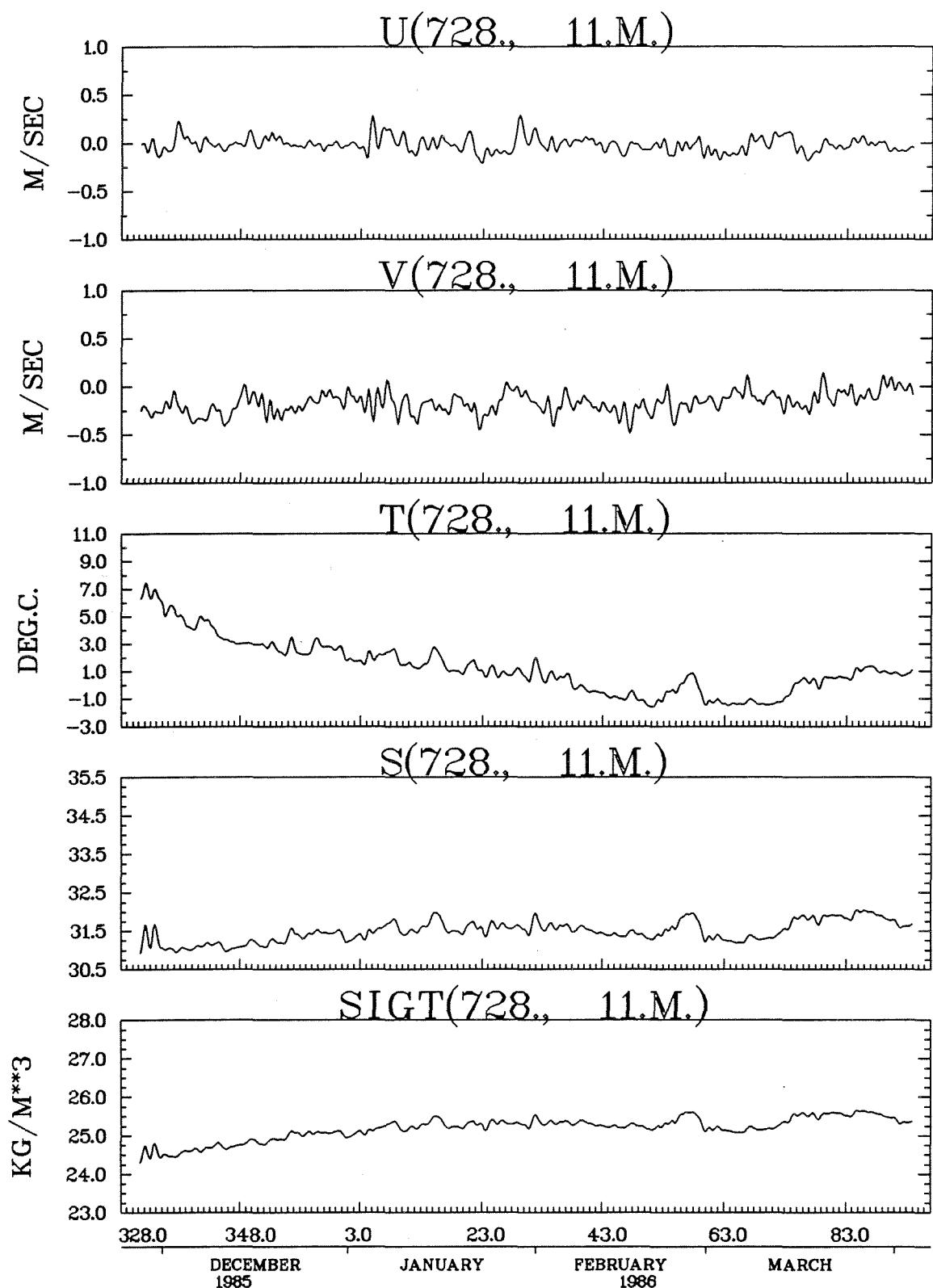
TEMPERATURE AND SALINITY VERY SPIKEY FROM
DAY 52 1986 TO END OF RECORD

STN. 728, 11 M.

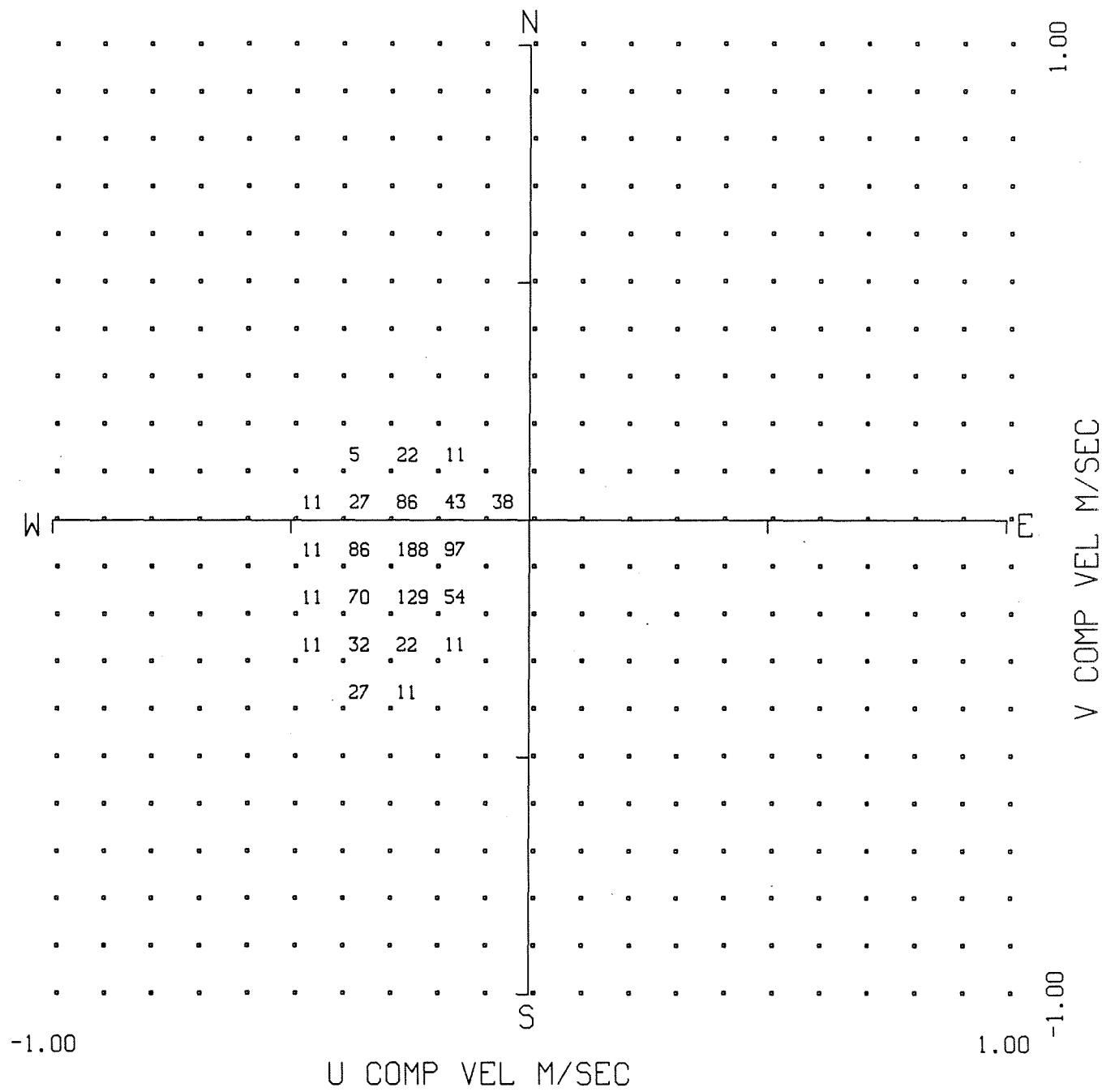




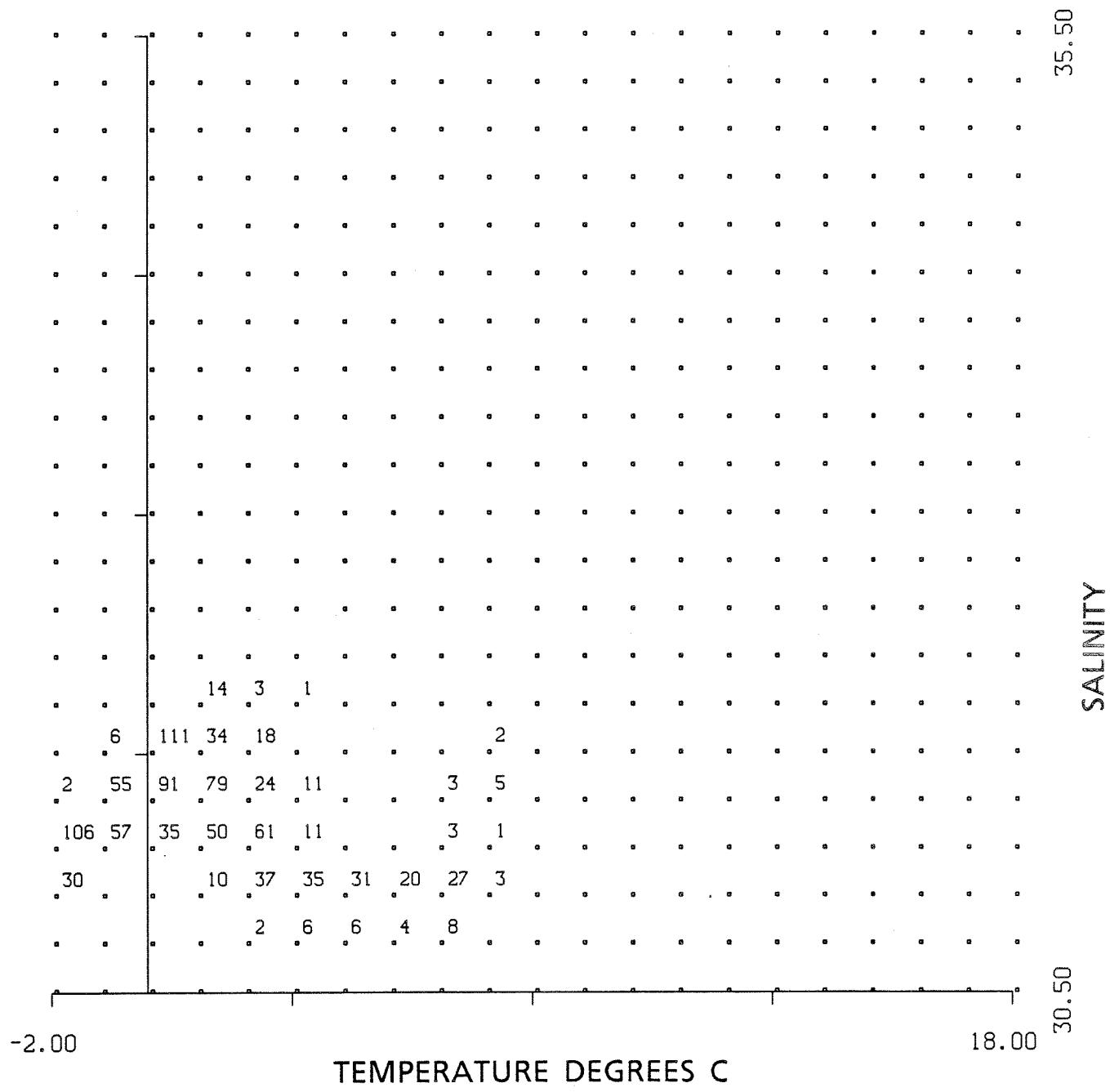
CASP S11 NOV. 24/1985 – APRIL 6/1986



CASP S11 NOV. 24/1985 - APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 728 DEPTH 11 M.
START TIME 24/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%



TEMPERATURE DEGREES C

FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 728 DEPTH 11 M.
START TIME 24/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%

MOORING 728
DEPTH (M) 50

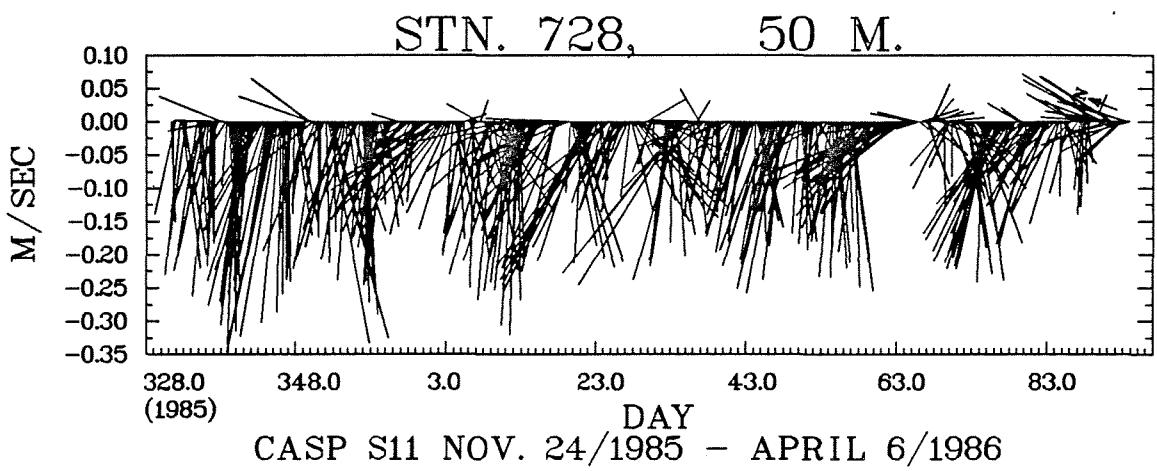
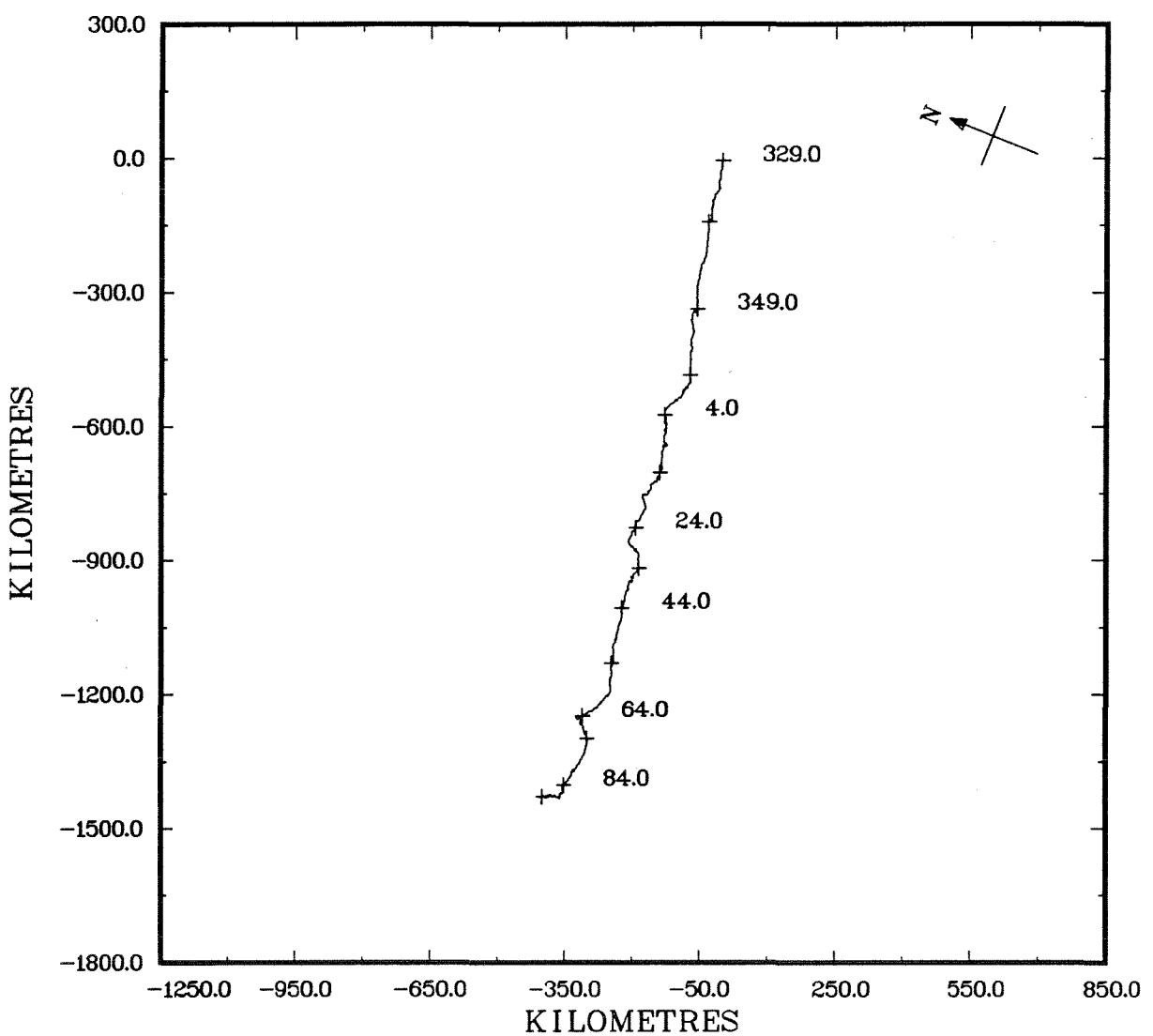
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 4351
LATITUDE 44 35.07 N
LONGITUDE 61 45.34 W
WATER DEPTH (M) 155
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.04
SAMPLE INTERVAL 30 MINUTES

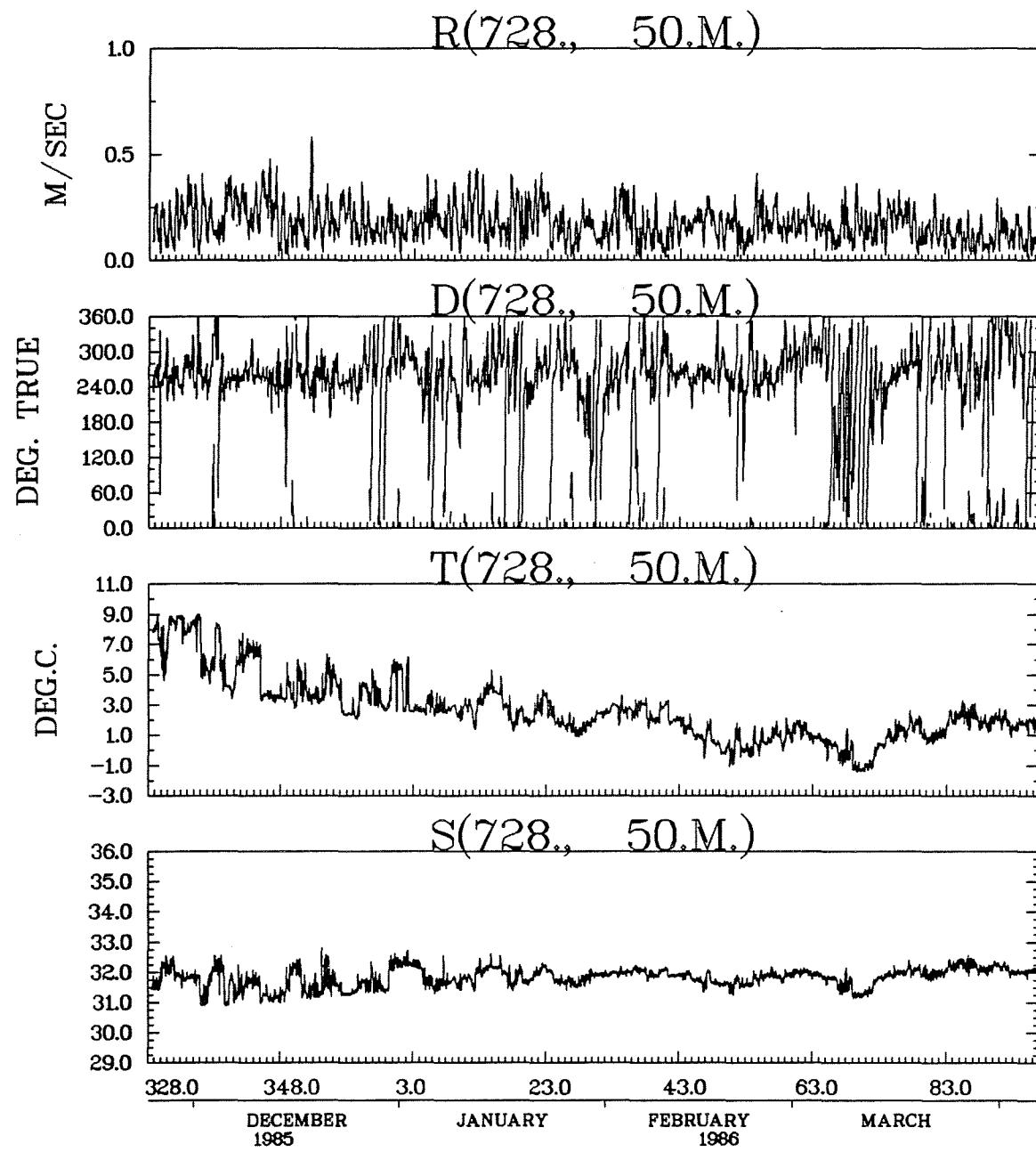
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.174	.015	.581	.082	6386
U(158° T) COMP VEL(M/S)	-.035	-.325	.253	.080	6386
V(68° T) COMP VEL(M/S)	-.125	-.573	.345	.116	6386
TEMPERATURE(DEG.C.)	2.643	-1.419	8.988	2.096	6386
SALINITY	31.818	30.875	32.793	.315	6386
SIGMA-T(KG/M**3)	25.347	24.383	25.978	.306	6386

COMMENTS

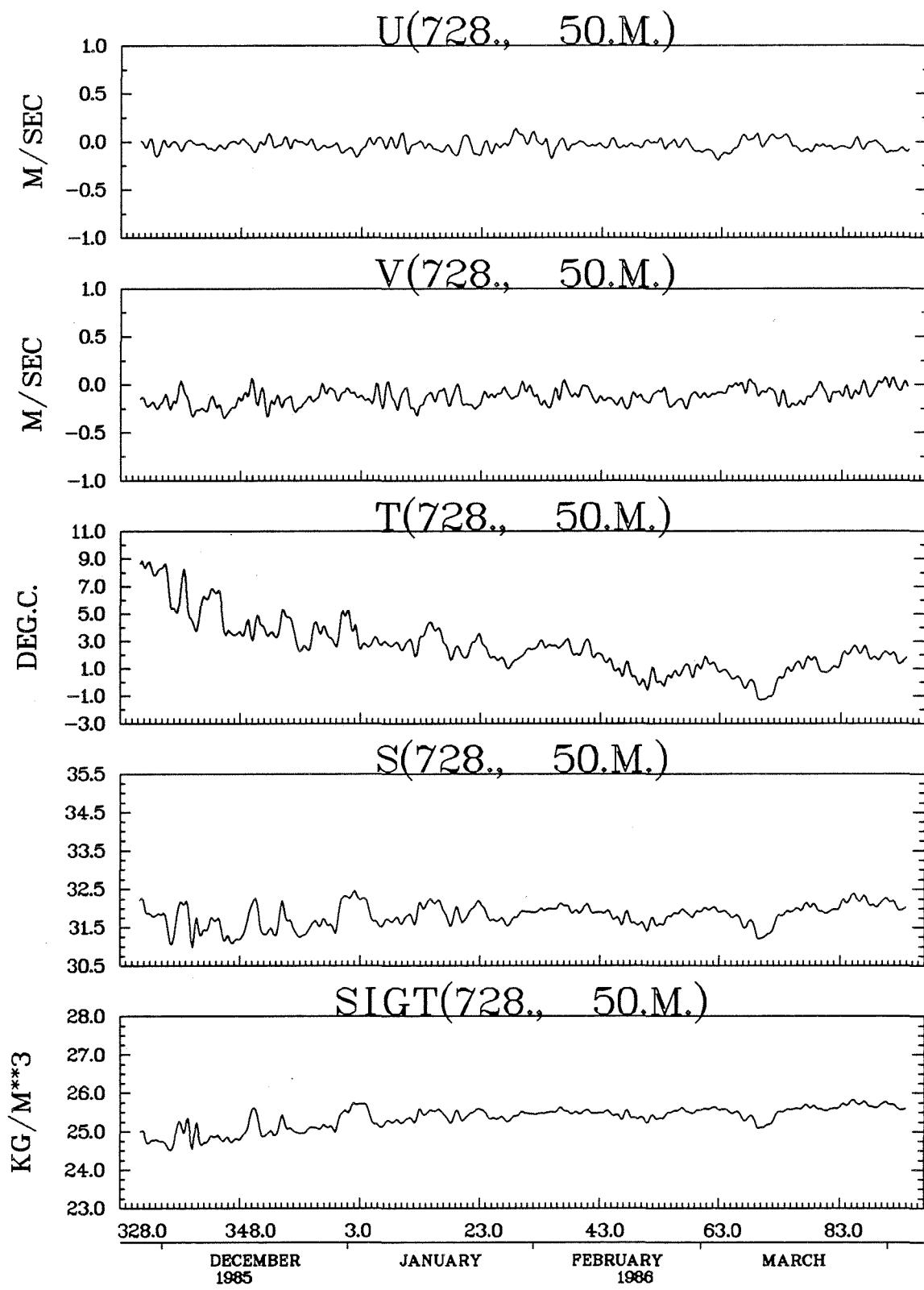
1 EXTRA CYCLE AFTER 'OUT OF WATER'
 AUTOEDIT DESPIKE RUN ON TEMPERATURE AND SALINITY
 ROTOR BEARINGS WORN
 RATE DROPPED FOR DAYS 65'1986 TO 66'1986 DAY 73'1986 DAY 78'1986
 DAYS 86'1986 TO 87'1986 DAY 89'1986 DAY 95'1986
 BAD RATE CYCLES WERE REPLACED WITH RATE FROM MOORING 728 AT 70 METERS

STN. 728, 50 M.

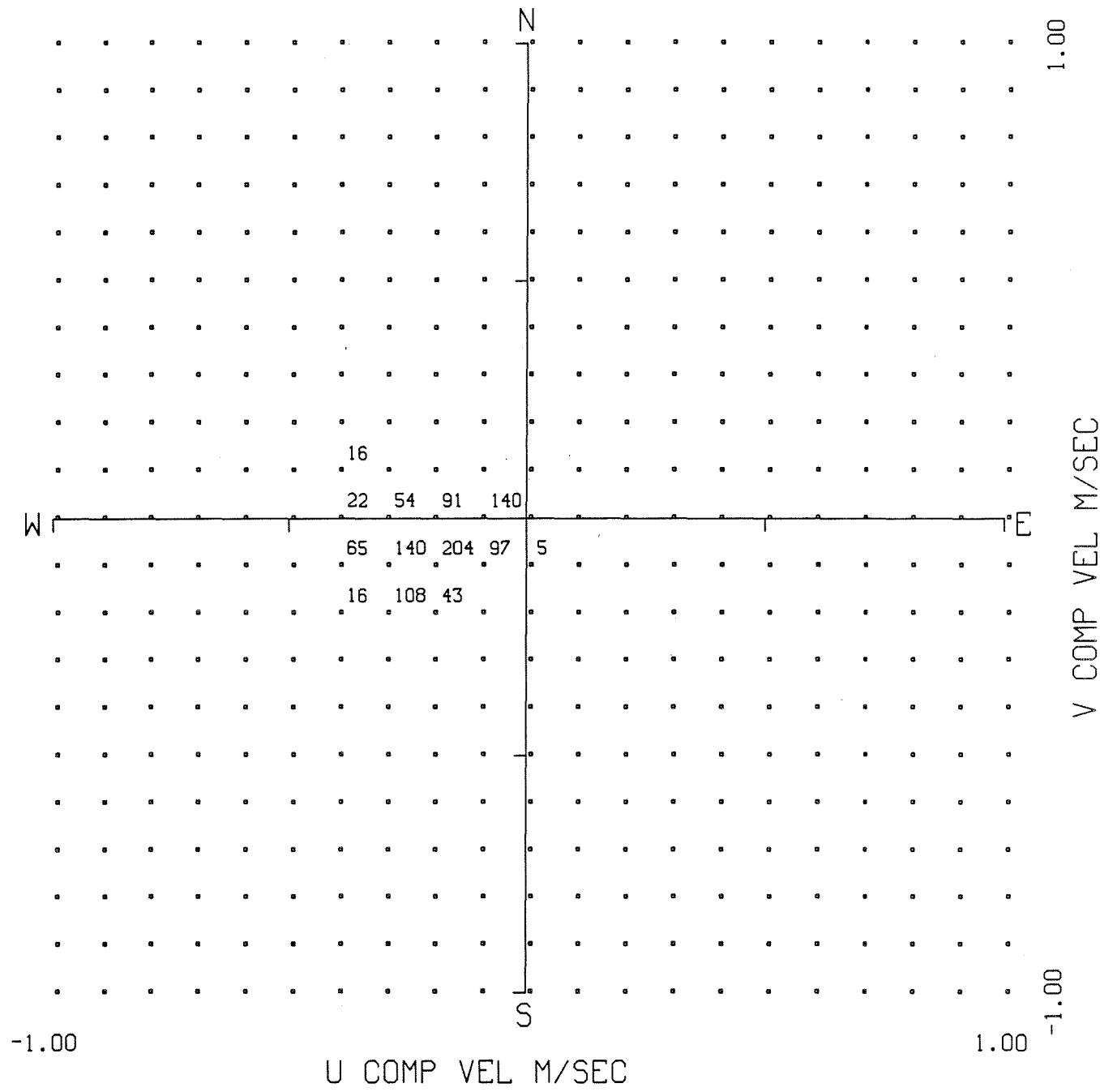




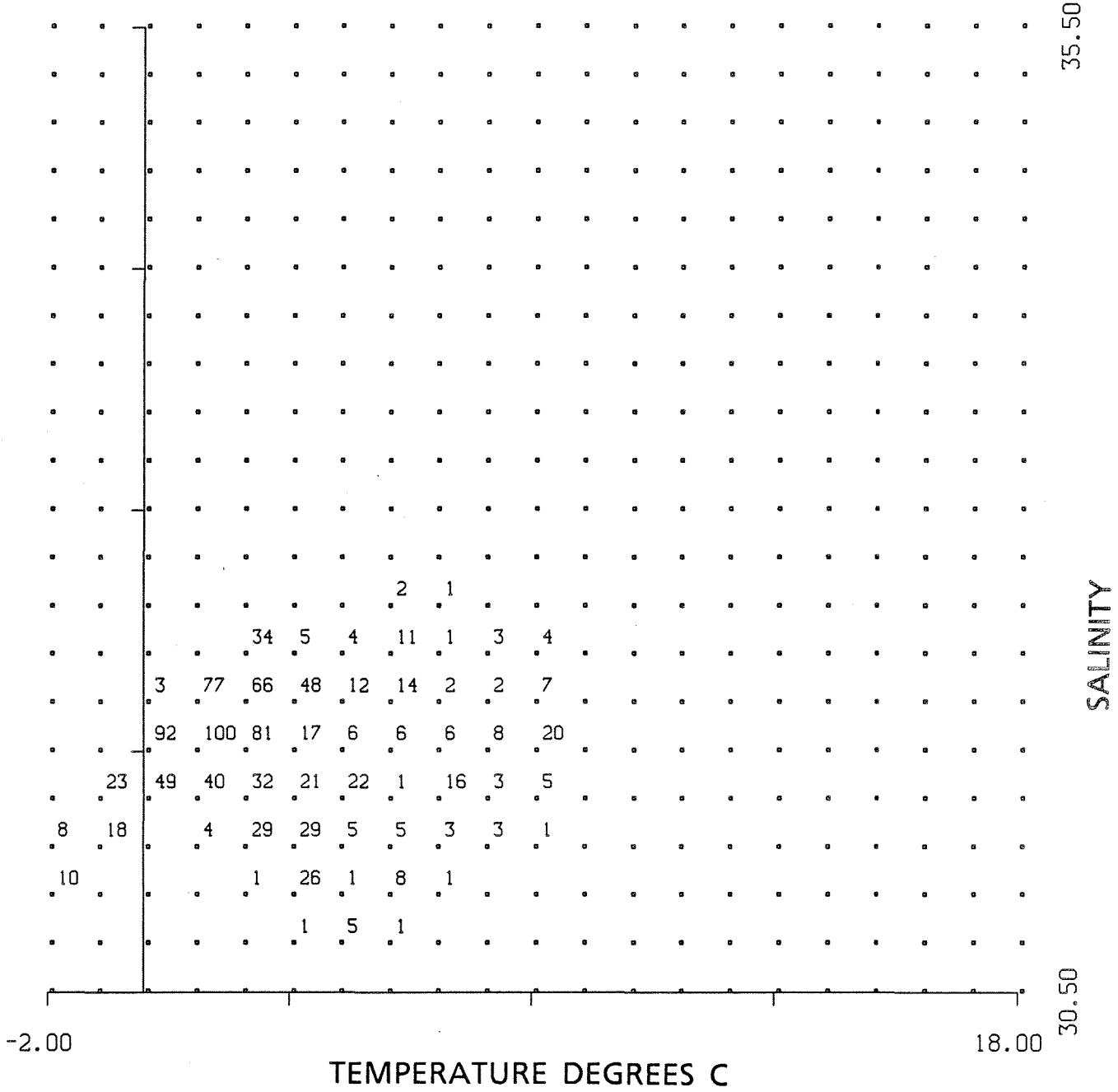
CASP S11 NOV. 24/1985 – APRIL 6/1986



CASP S11 NOV. 24/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 728 DEPTH 50 M.
START TIME 24/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT

CRUISE 85040 STATION 728 DEPTH 50 M.

START TIME 24/11/ 85 15:59:55.5 GMT

FREQUENCY UNIT 0.1%

MOORING 728
DEPTH (M) 70

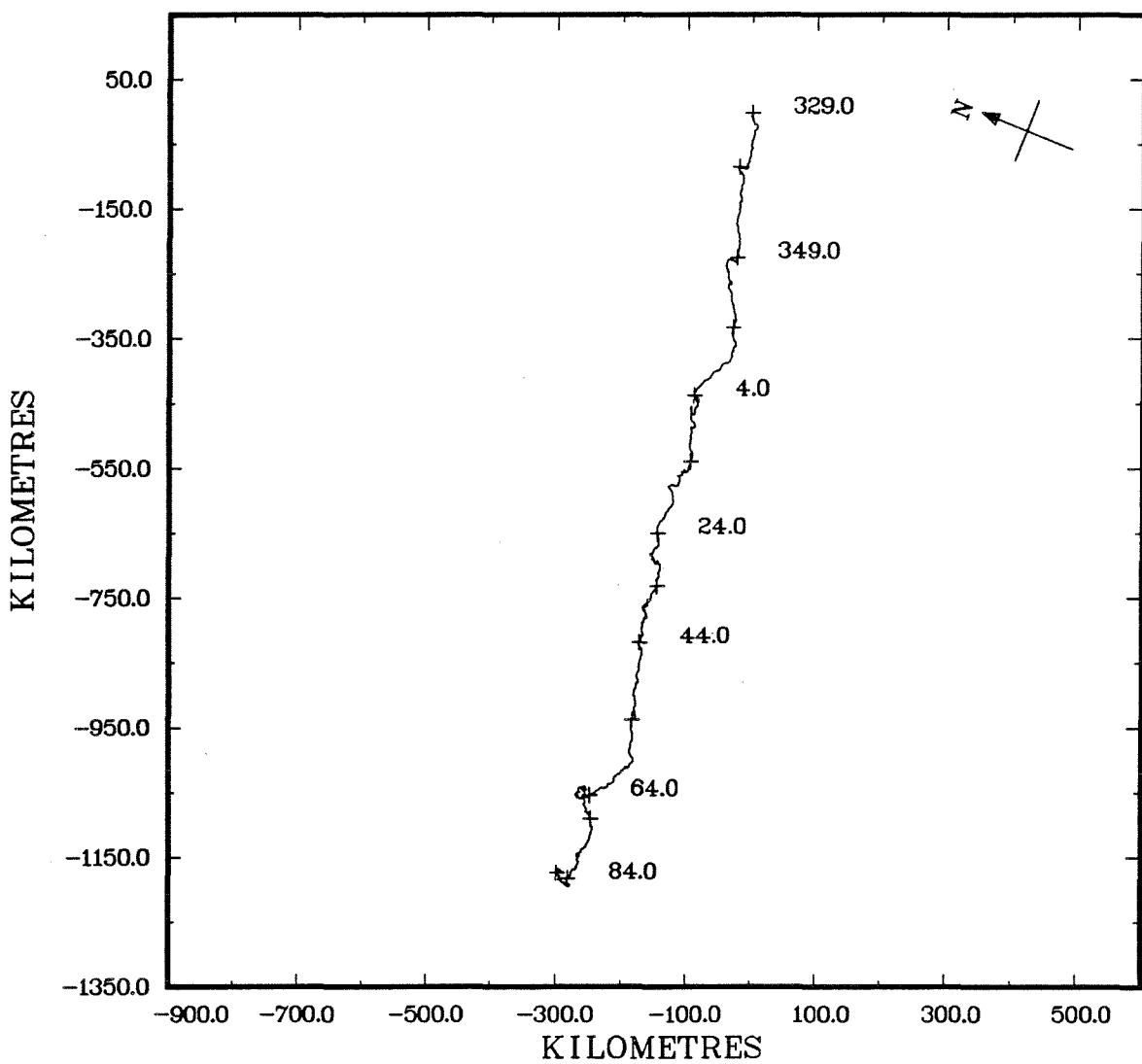
INSTRUMENT TYPE AANDERAA RCM
SERIAL NUMBER 1946
LATITUDE 44 35.07 N
LONGITUDE 61 45.34 W
WATER DEPTH (M) 155
MOORING DATE ; CRUISE 24/11/1985 ; 85-040
DURATION (DAYS) 133.04
SAMPLE INTERVAL 30 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
SPEED(M/SEC)	.167	.023	.477	.078	6386
U(158° T) COMP VEL(M/S)	-.025	-.278	.338	.093	6386
V(68° T) COMP VEL(M/S)	-.102	-.452	.325	.119	6386
TEMPERATURE(DEG.C.)	3.587	-.419	8.831	1.912	6386
SALINITY	32.691	31.695	34.086	.457	6386
SIGMA-T(KG/M**3)	25.965	25.366	26.698	.223	6386

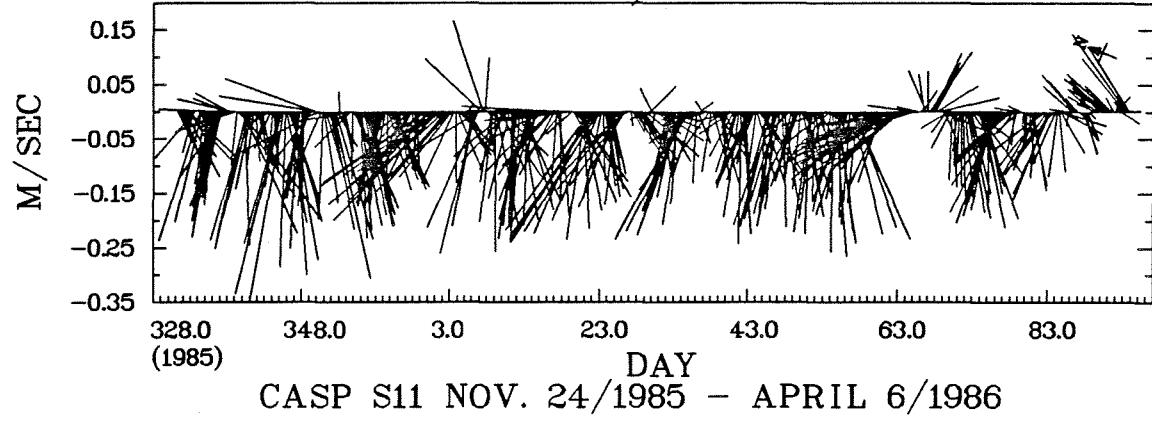
COMMENTS

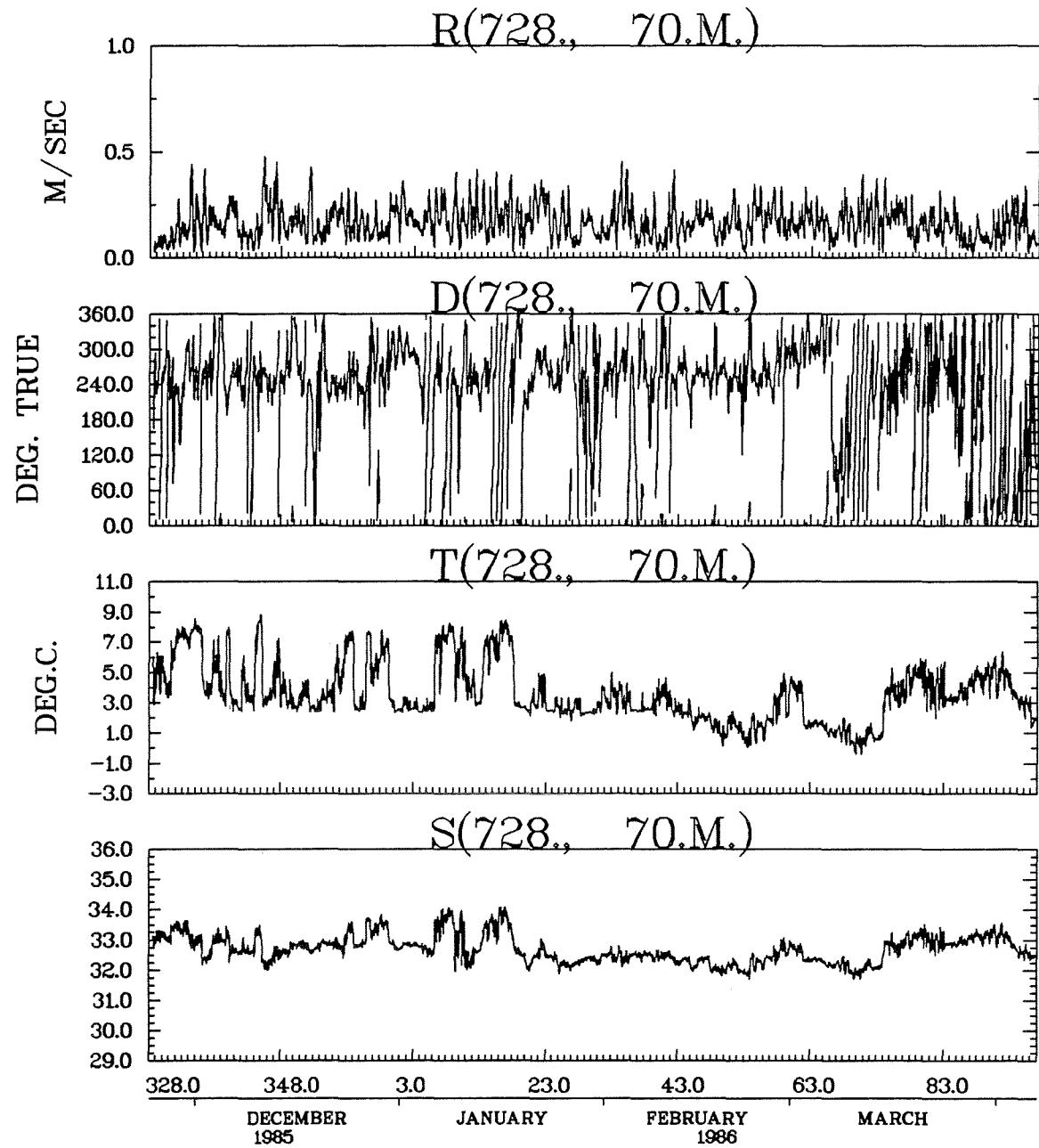
2 EXTRA CYCLES AFTER 'OUT OF WATER'
SALINITY IS QUESTIONABLE FROM DAY 62 1986 TO END OF RECORD
TEMPERATURE AND SALINITY HEAVILY EDITED

STN. 728, 70 M.

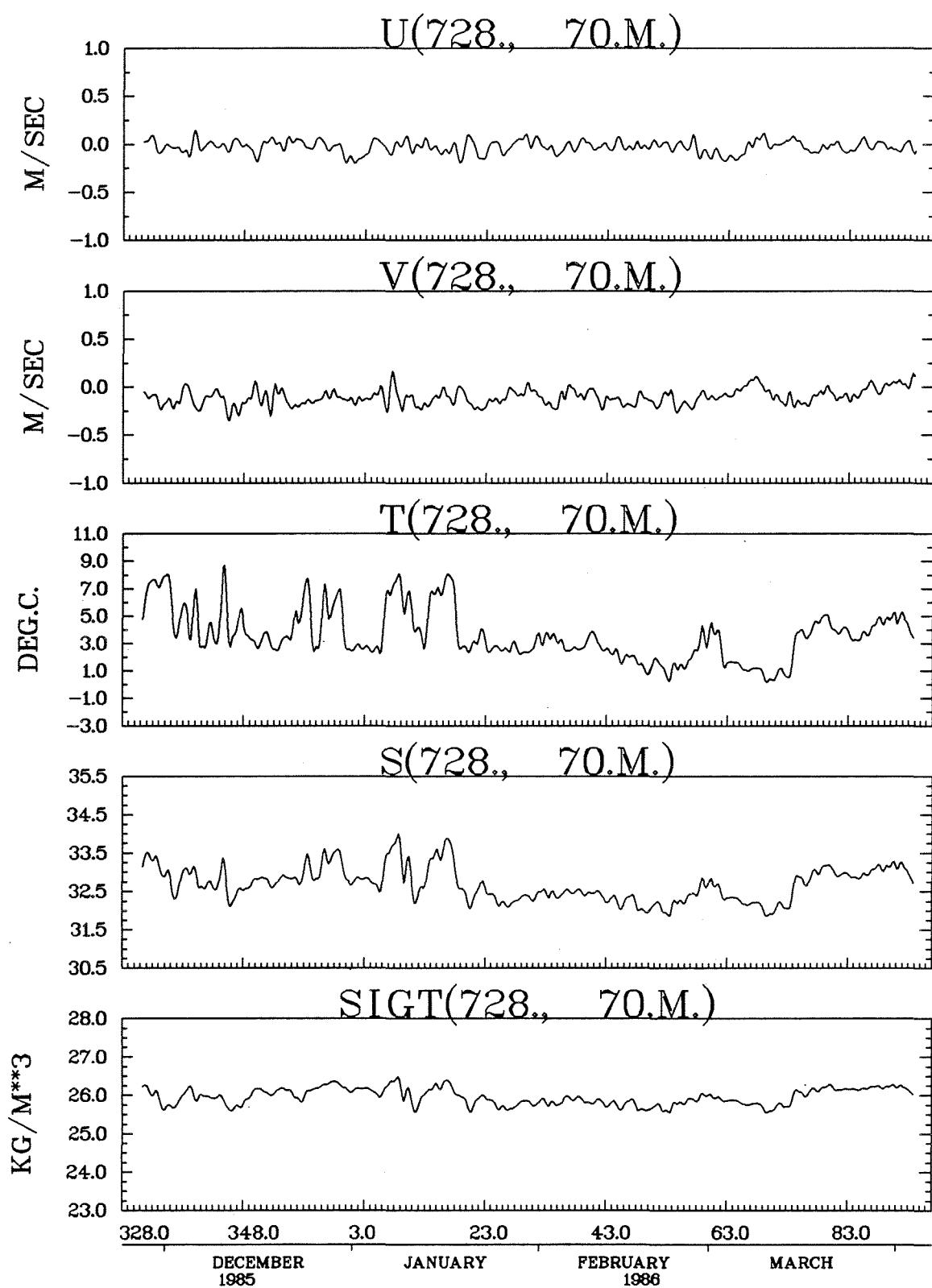


STN. 728, 70 M.

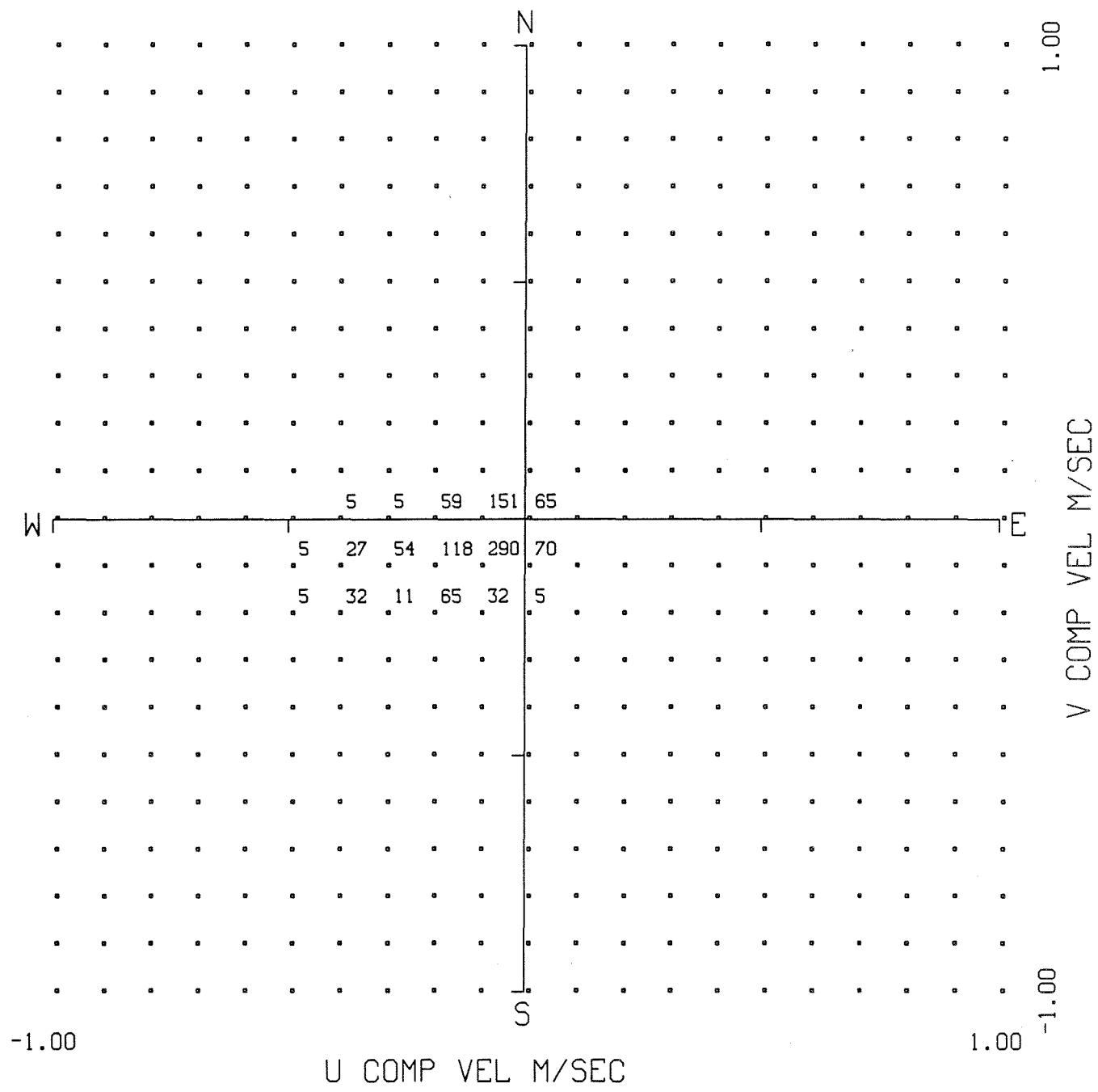




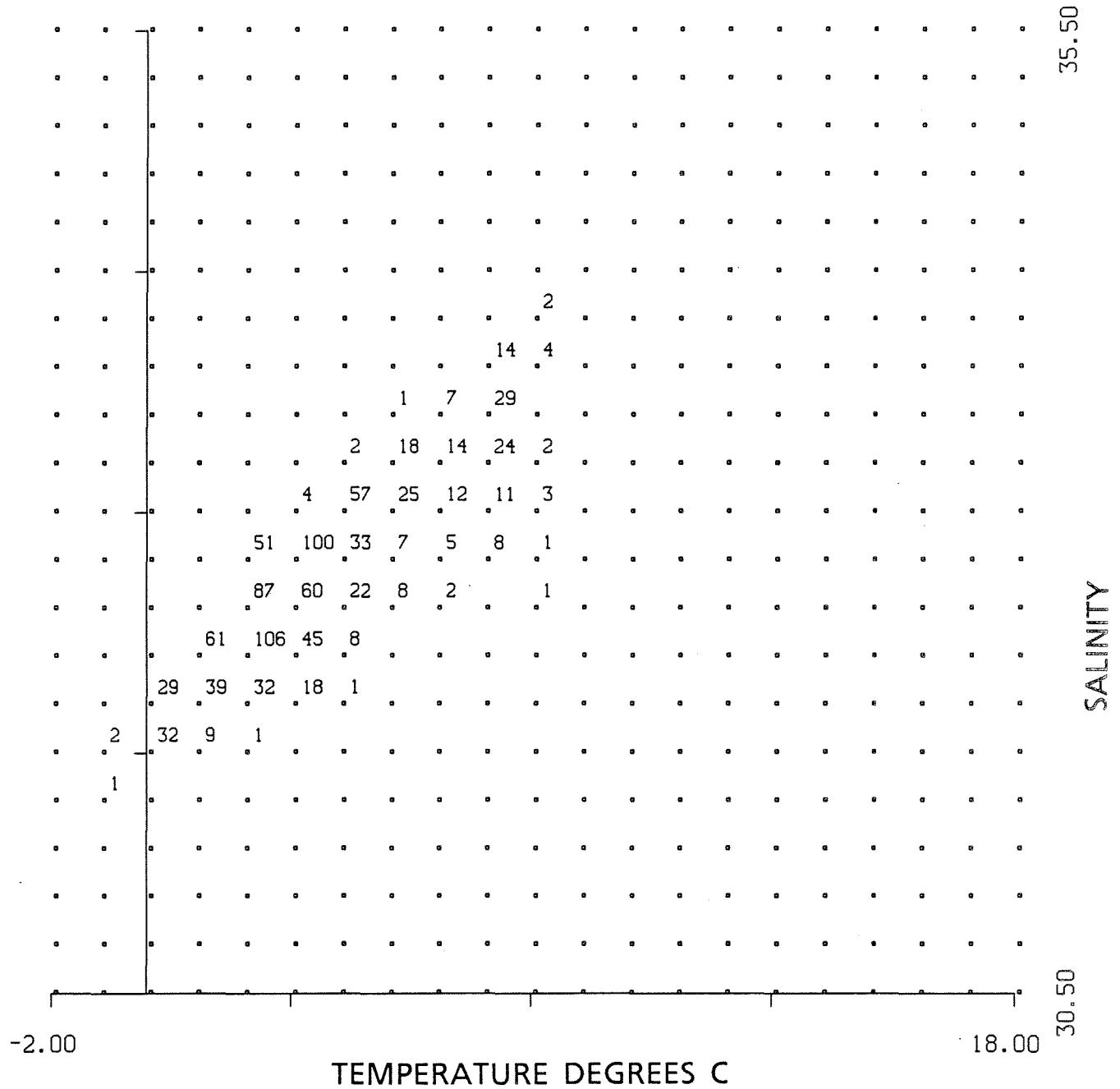
CASP S11 NOV. 24/1985 – APRIL 6/1986



CASP S11 NOV. 24/1985 – APRIL 6/1986



FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 728 DEPTH 70 M.
START TIME 24/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%

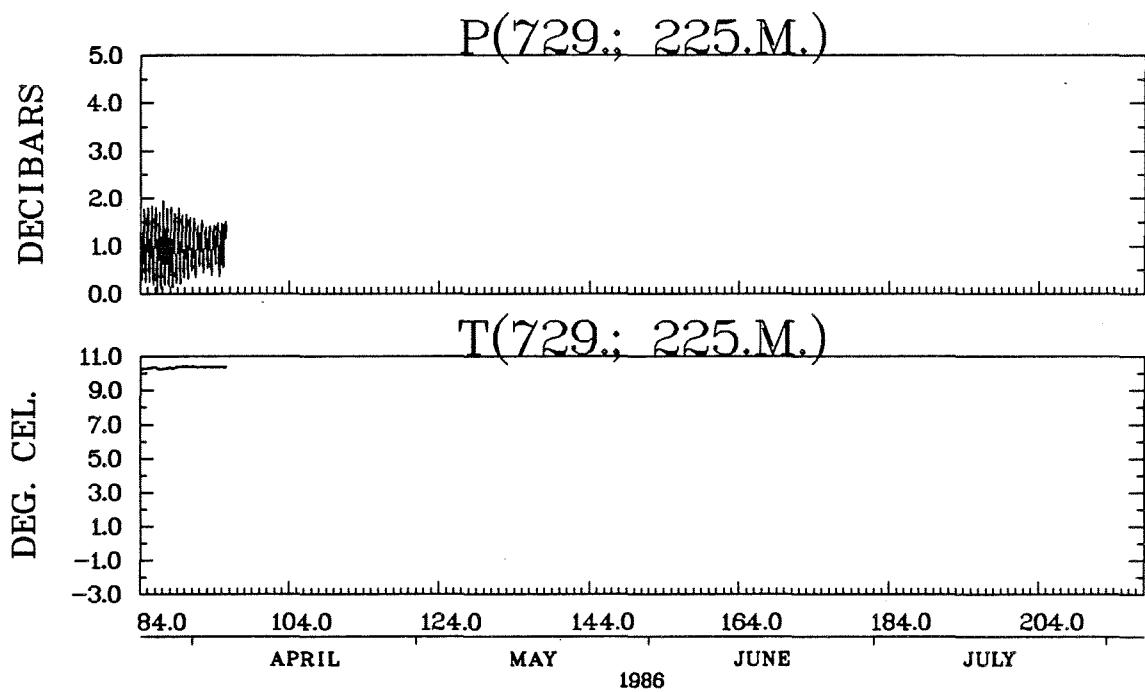
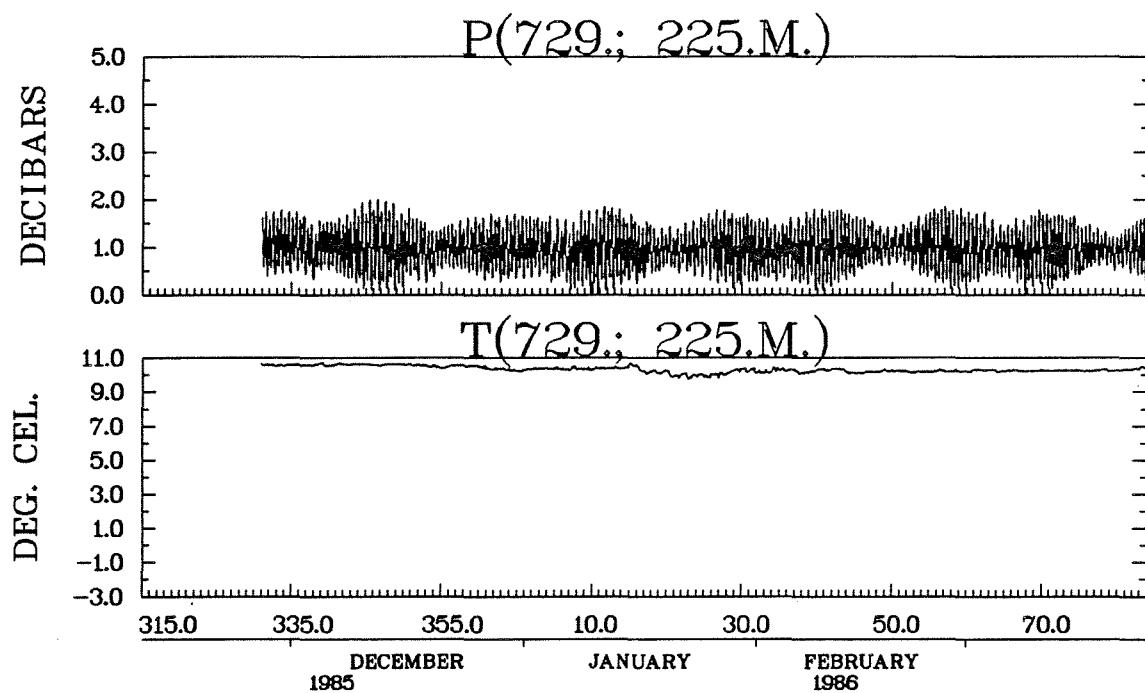


FREQUENCY DISTRIBUTION PLOT
CRUISE 85040 STATION 728 DEPTH 70 M.
START TIME 24/11/ 85 15:59:55.5 GMT
FREQUENCY UNIT 0.1%

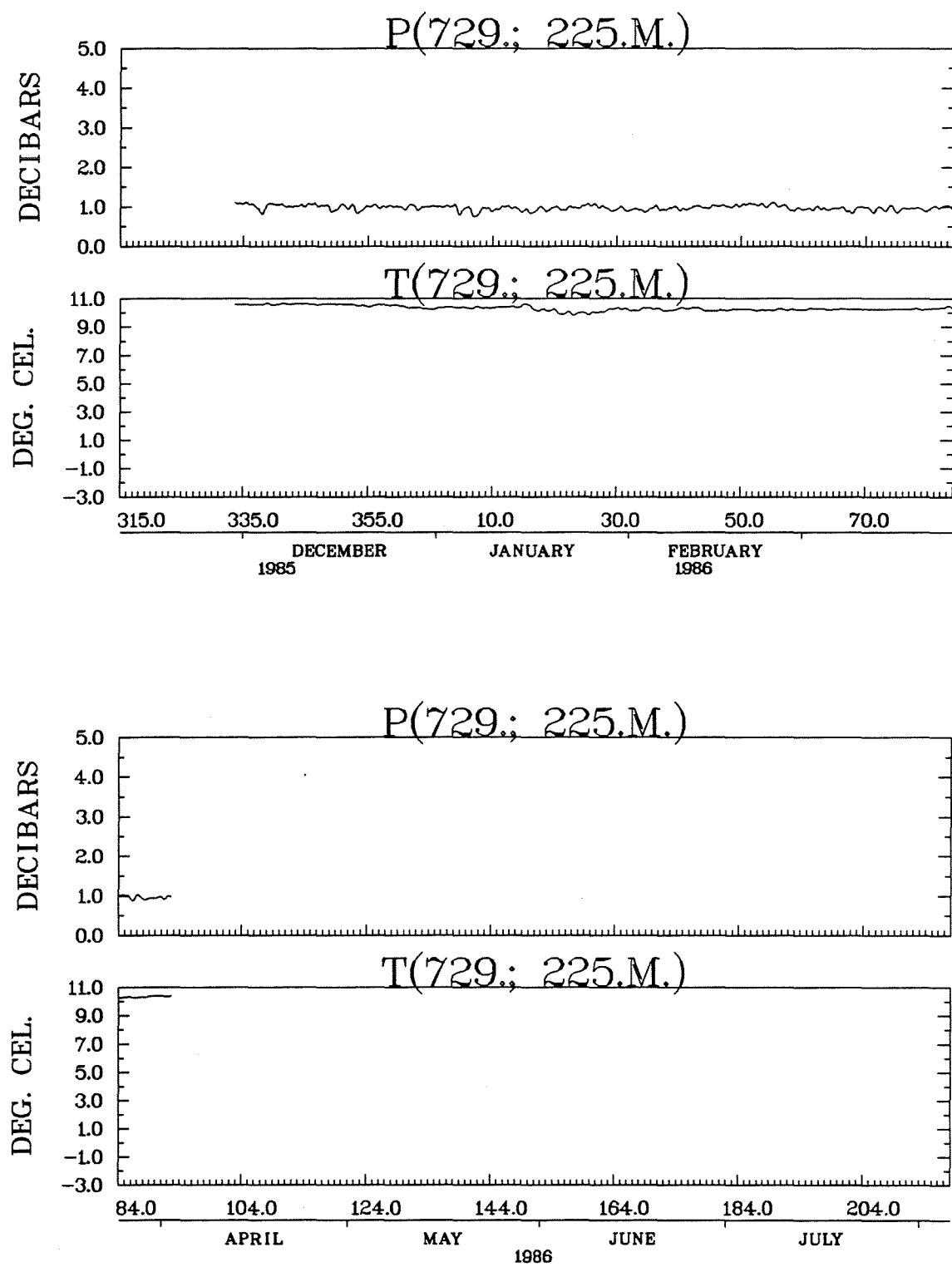
MOORING 729
DEPTH (M) 225

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 282
LATITUDE 43 57.21 N
LONGITUDE 62 44.30 W
WATER DEPTH (M) 225
MOORING DATE ; CRUISE 26/11/1985 ; 85-040
DURATION (DAYS) 129.58
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	10.334	9.740	10.700	.178	3110
PRESSURE(DECIBARS)	.981	.000	2.000	.435	3110



CASP S5 NOV. 26/1985 – APRIL 5/1986



CASP S5 NOV. 26/1985 - APRIL 5/1986

HISTOGRAM OF T(729.; 225.M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

2.00	2.50	0	0.0
2.50	3.00	0	0.0
3.00	3.50	0	0.0
3.50	4.00	0	0.0
4.00	4.50	0	0.0
4.50	5.00	0	0.0
5.00	5.50	0	0.0
5.50	6.00	0	0.0
6.00	6.50	0	0.0
6.50	7.00	0	0.0
7.00	7.50	0	0.0
7.50	8.00	0	0.0
8.00	8.50	0	0.0
8.50	9.00	0	0.0
9.00	9.50	0	0.0
9.50	10.00	110	3.5 *****
10.00	10.50	2319	74.6 *****
10.50	11.00	681	21.9 *****
11.00	11.50	0	0.0
11.50	12.00	0	0.0

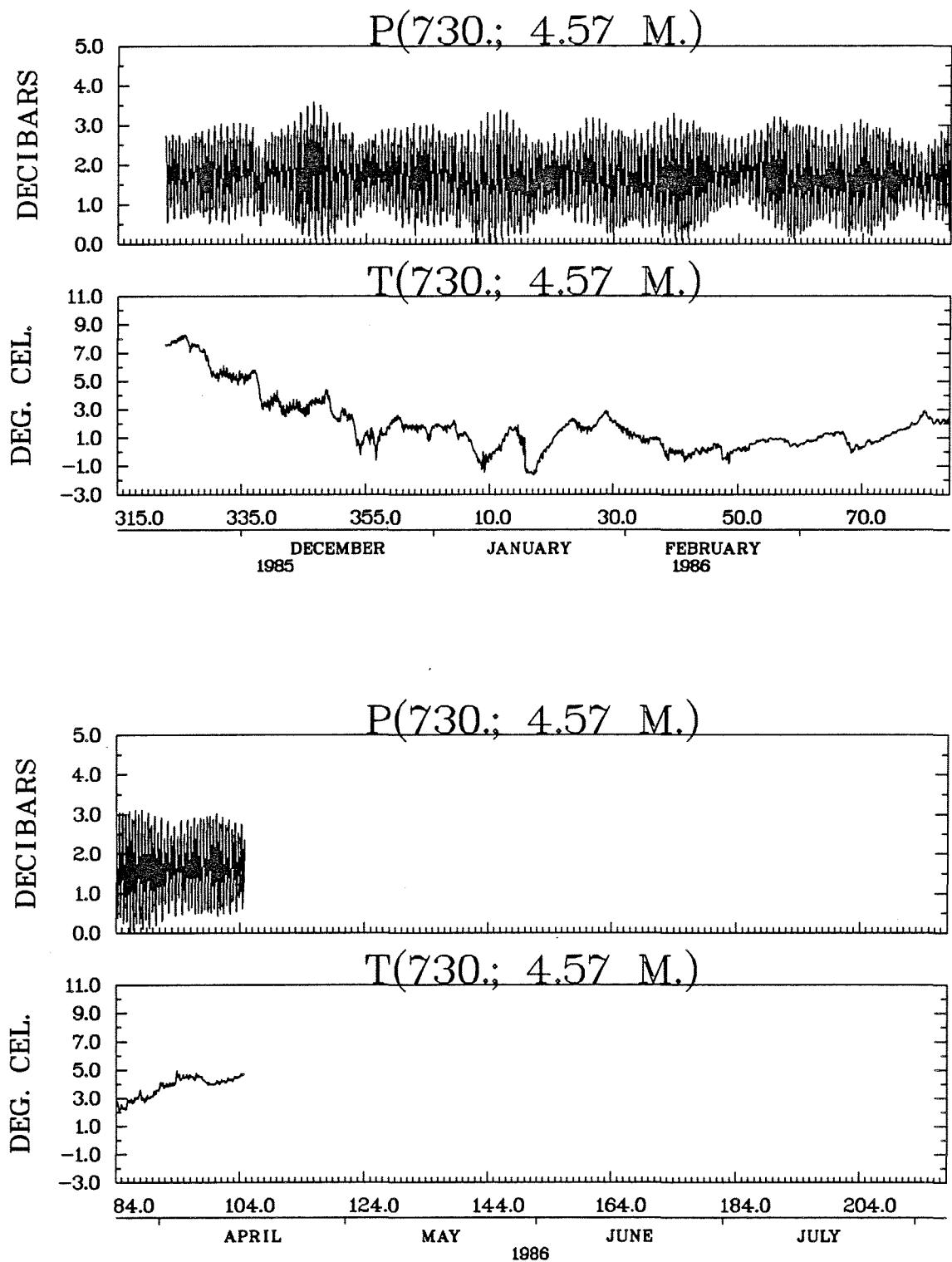
TOTAL NO. OF SAMPLES 3110

OUTSIDE RANGE 0

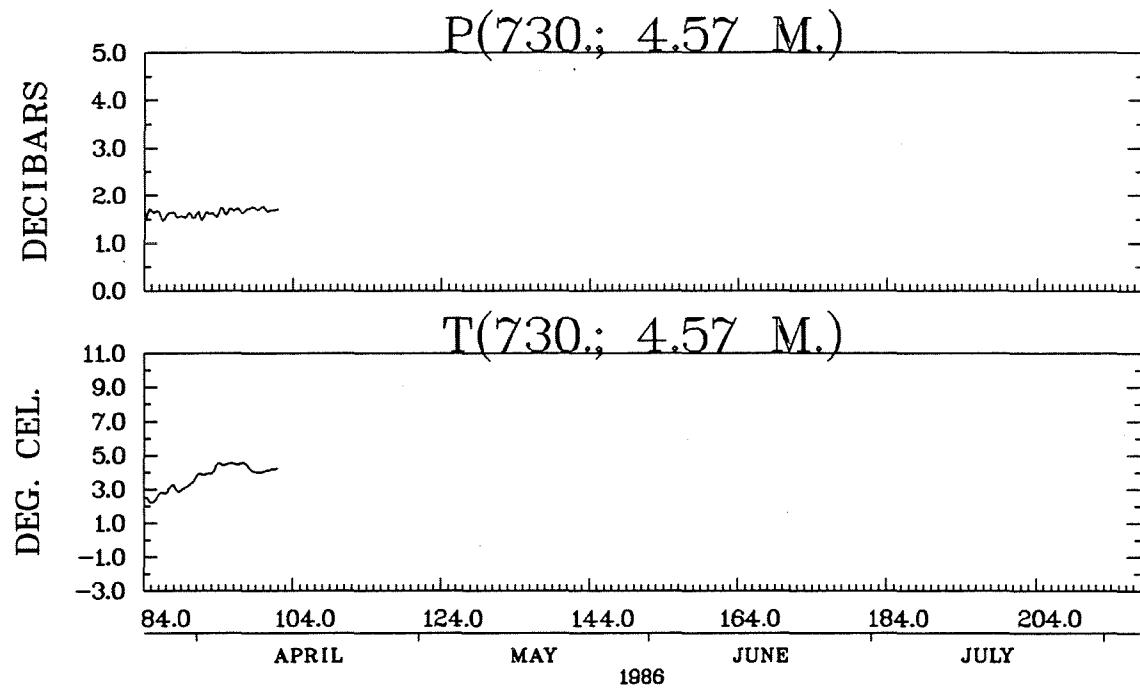
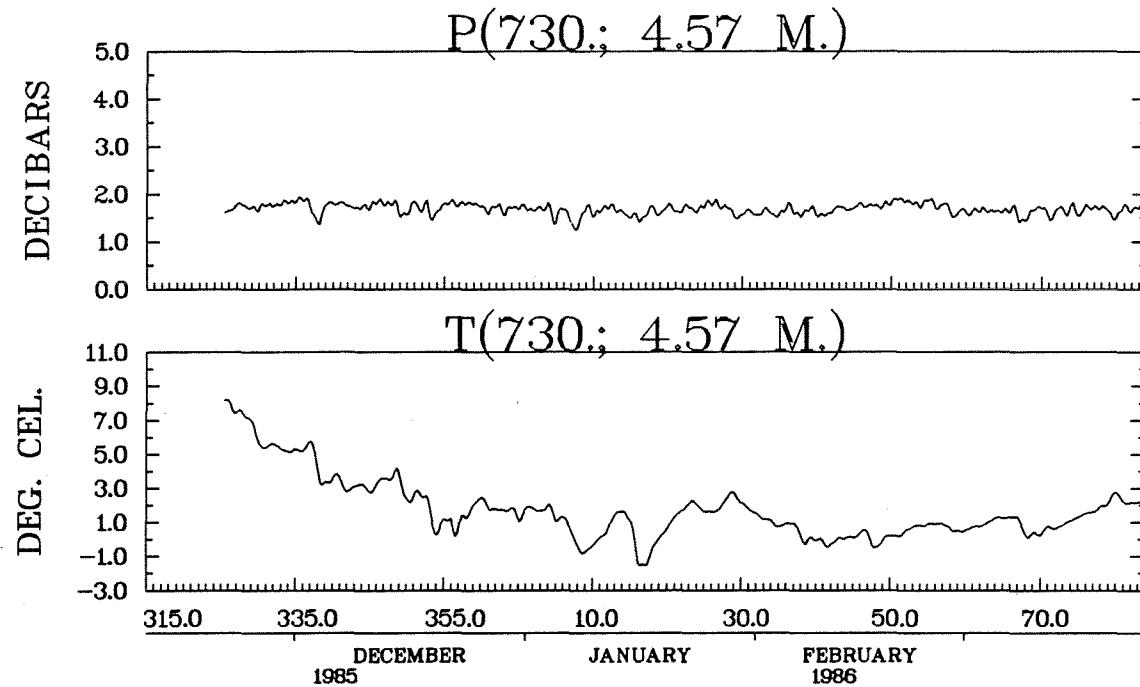
MOORING 730
DEPTH (M) 4.57

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 831
LATITUDE 43 27.56 N
LONGITUDE 65 39.19 W
WATER DEPTH (M) 4.57
MOORING DATE ; CRUISE 18/11/1985 ; 85-040
DURATION (DAYS) 146.96
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	2.162	-1.630	8.280	1.996	3527
PRESSURE(DECIBARS)	1.683	.000	3.580	.803	3527



CASP WEST HEAD (CAPE SABLE IS.) , N.S.
NOV. 18/1985 – APRIL 14/1986



CASP WEST HEAD (CAPE SABLE IS.) , N.S.
NOV. 18/1985 - APRIL 14/1986

HISTOGRAM OF T(730.; 4.57 M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	9	.3	**
-1.50	-1.00	42	1.2	*****
-1.00	-.50	61	1.7	*****
-.50	0.00	186	5.3	*****
0.00	.50	350	9.9	*****
.50	1.00	512	14.5	*****
1.00	1.50	400	11.3	*****
1.50	2.00	456	12.9	*****
2.00	2.50	307	8.7	*****
2.50	3.00	218	6.2	*****
3.00	3.50	167	4.7	*****
3.50	4.00	161	4.6	*****
4.00	4.50	211	6.0	*****
4.50	5.00	96	2.7	*****
5.00	5.50	107	3.0	*****
5.50	6.00	71	2.0	*****
6.00	6.50	11	.3	**
6.50	7.00	9	.3	**
7.00	7.50	38	1.1	*****
7.50	8.00	81	2.3	*****
8.00	8.50	34	1.0	*****
8.50	9.00	0	0.0	

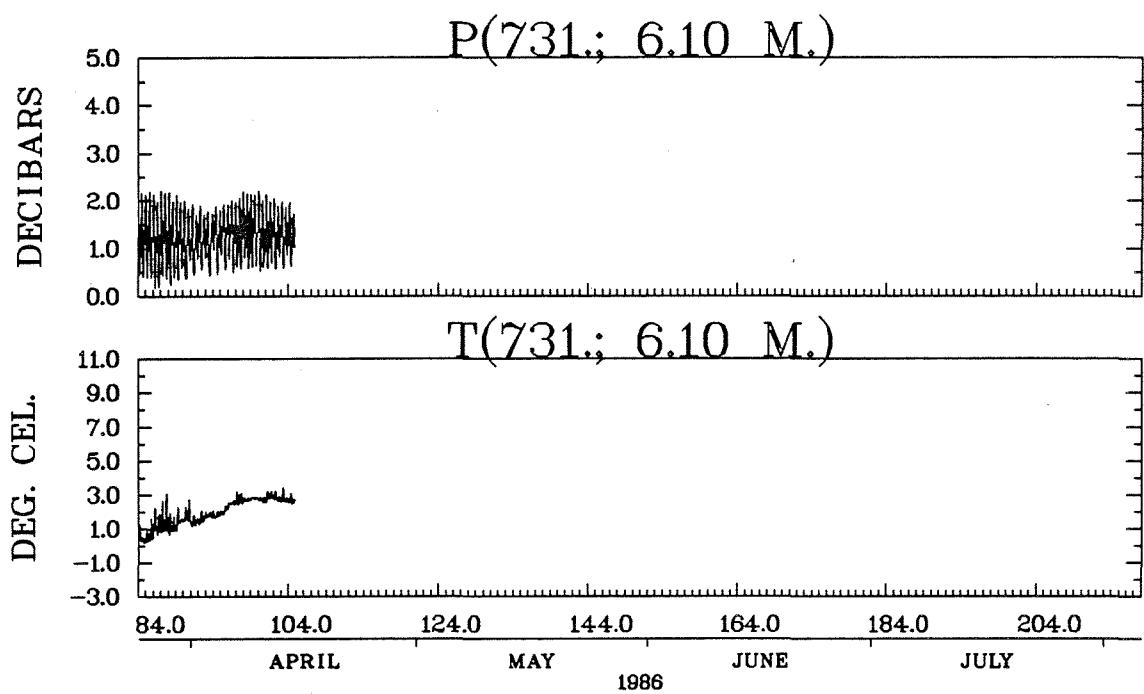
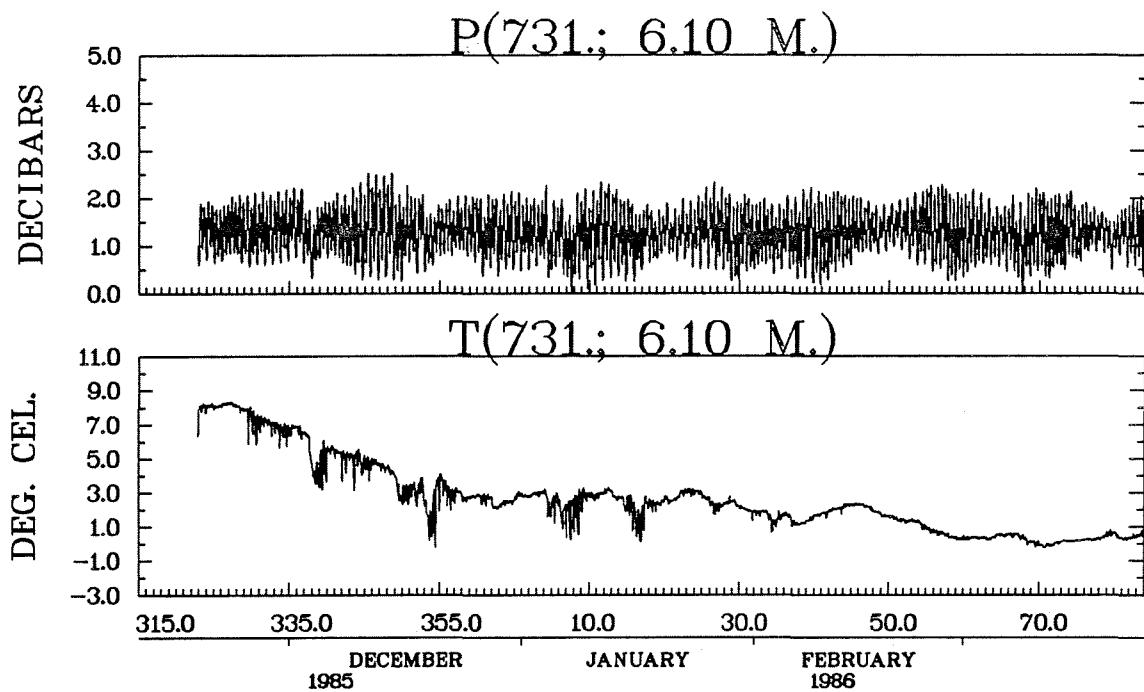
TOTAL NO. OF SAMPLES 3527

OUTSIDE RANGE 0

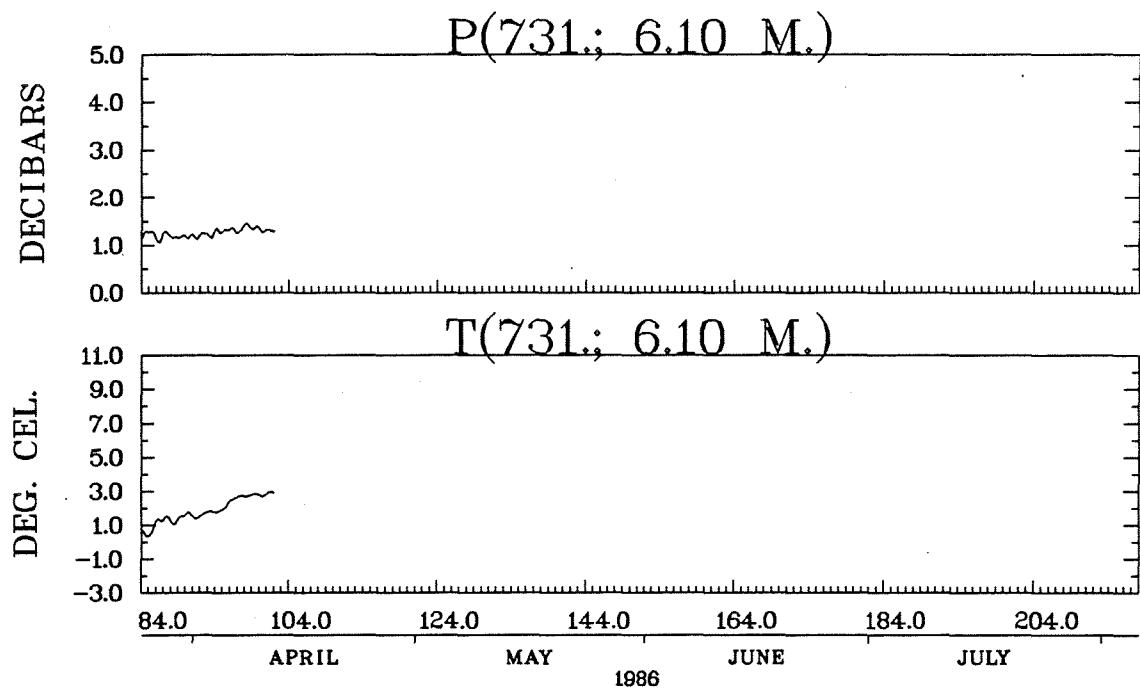
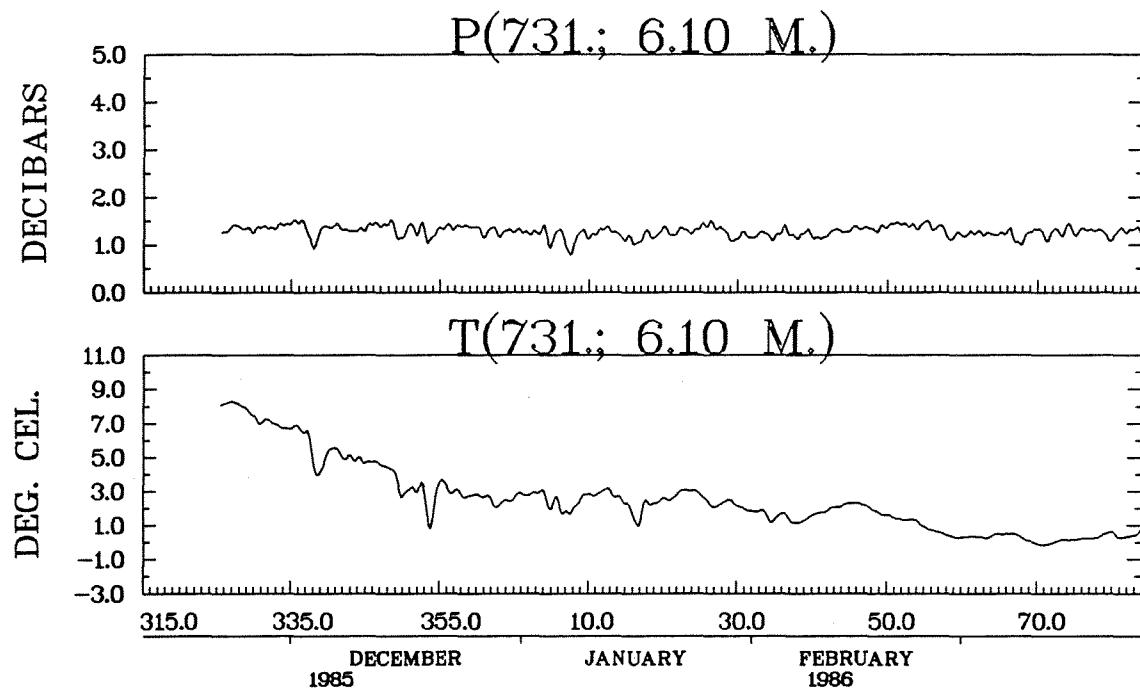
MOORING 731
DEPTH (M) 6.10

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 991
LATITUDE 44 17.42 N
LONGITUDE 64 20.75 W
WATER DEPTH (M) 6.10
MOORING DATE ; CRUISE 18/11/1985 ; 85-040
DURATION (DAYS) 147.00
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	2.568	-.220	8.320	2.058	3528
PRESSURE(DECIBARS)	1.281	.000	2.510	.492	3528



CASP RIVERPORT , N.S.
NOV. 18/1985 – APRIL 14/1986



CASP RIVERPORT , N.S.
NOV. 18/1985 – APRIL 14/1986

HISTOGRAM OF T(731.; 6.10 M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-1.00	- .50	0	0.0	
-.50	0.00	60	1.7	*****
0.00	.50	514	14.6	*****
.50	1.00	248	7.0	*****
1.00	1.50	260	7.4	*****
1.50	2.00	432	12.2	*****
2.00	2.50	472	13.4	*****
2.50	3.00	659	18.7	*****
3.00	3.50	215	6.1	*****
3.50	4.00	58	1.6	*****
4.00	4.50	61	1.7	*****
4.50	5.00	77	2.2	*****
5.00	5.50	87	2.5	*****
5.50	6.00	31	.9	****
6.00	6.50	36	1.0	****
6.50	7.00	86	2.4	*****
7.00	7.50	57	1.6	*****
7.50	8.00	49	1.4	*****
8.00	8.50	126	3.6	*****
8.50	9.00	0	0.0	

TOTAL NO. OF SAMPLES 3528

OUTSIDE RANGE 0

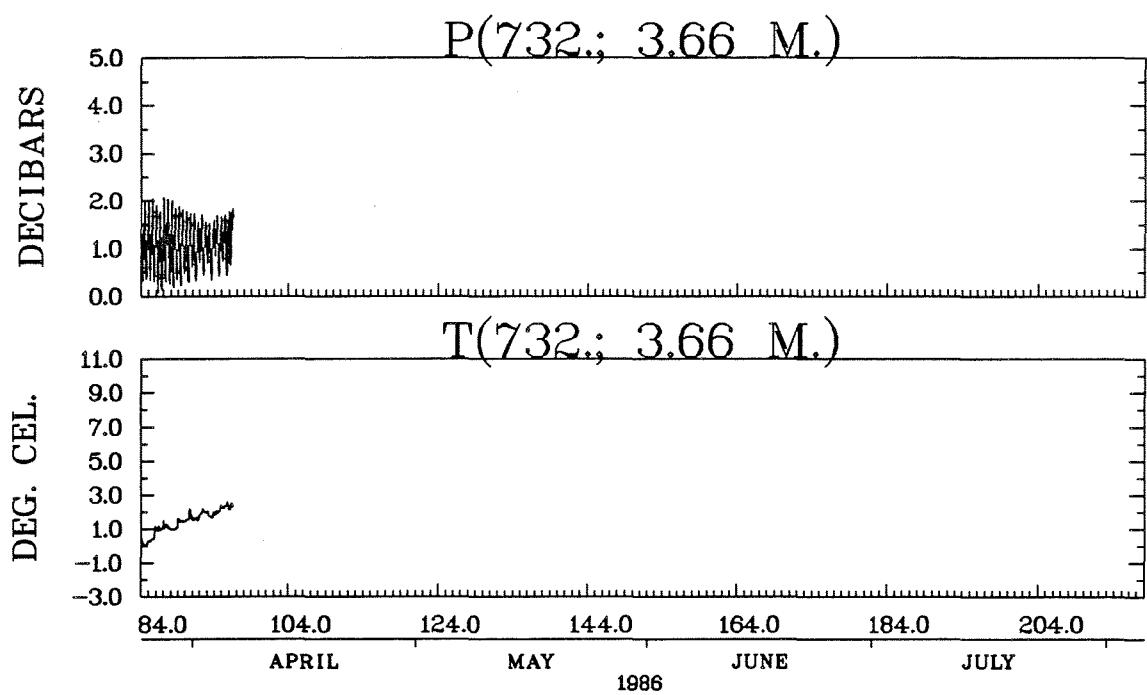
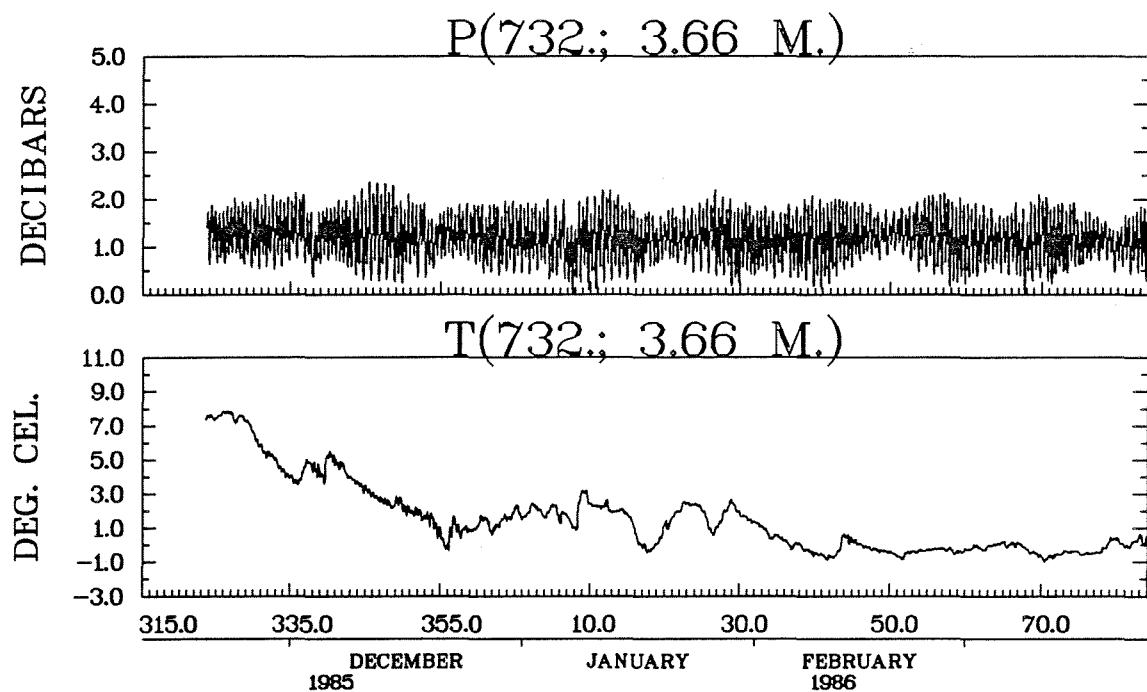
MOORING 732
DEPTH (M) 3.66

INSTRUMENT TYPE TIDE GAUGE WLRS
SERIAL NUMBER 821
LATITUDE 44 28.67 N
LONGITUDE 63 35.96 W
WATER DEPTH (M) 3.66
MOORING DATE ; CRUISE 19/11/1985 ; 85-040
DURATION (DAYS) 137.96
SAMPLE INTERVAL 60 MINUTES

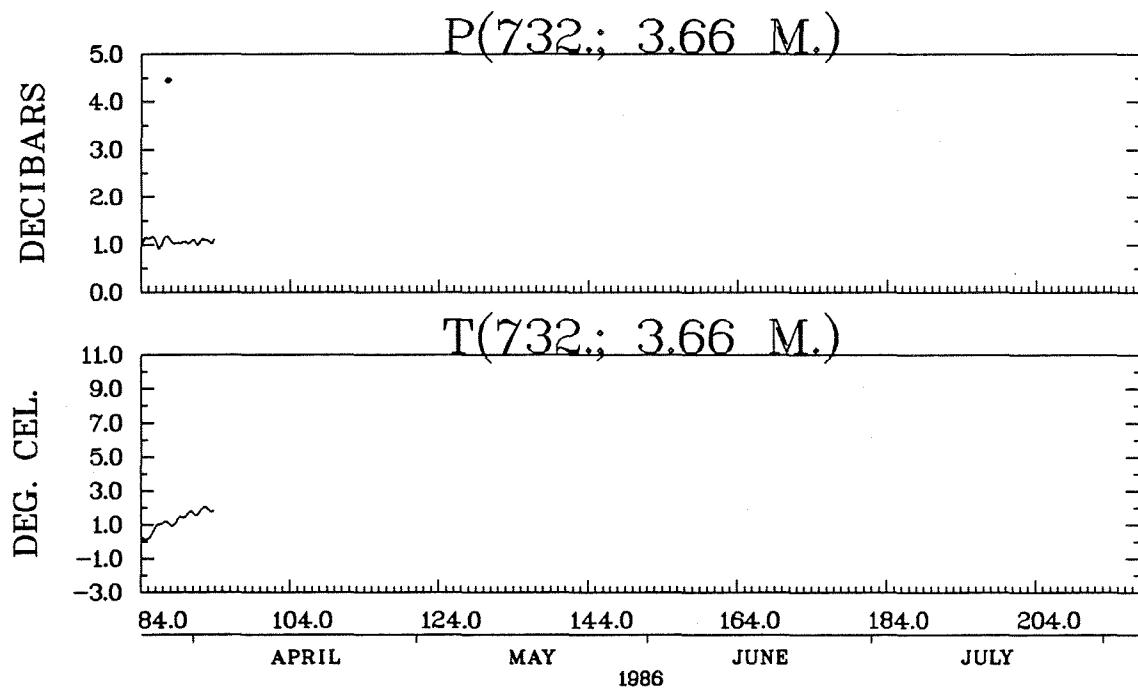
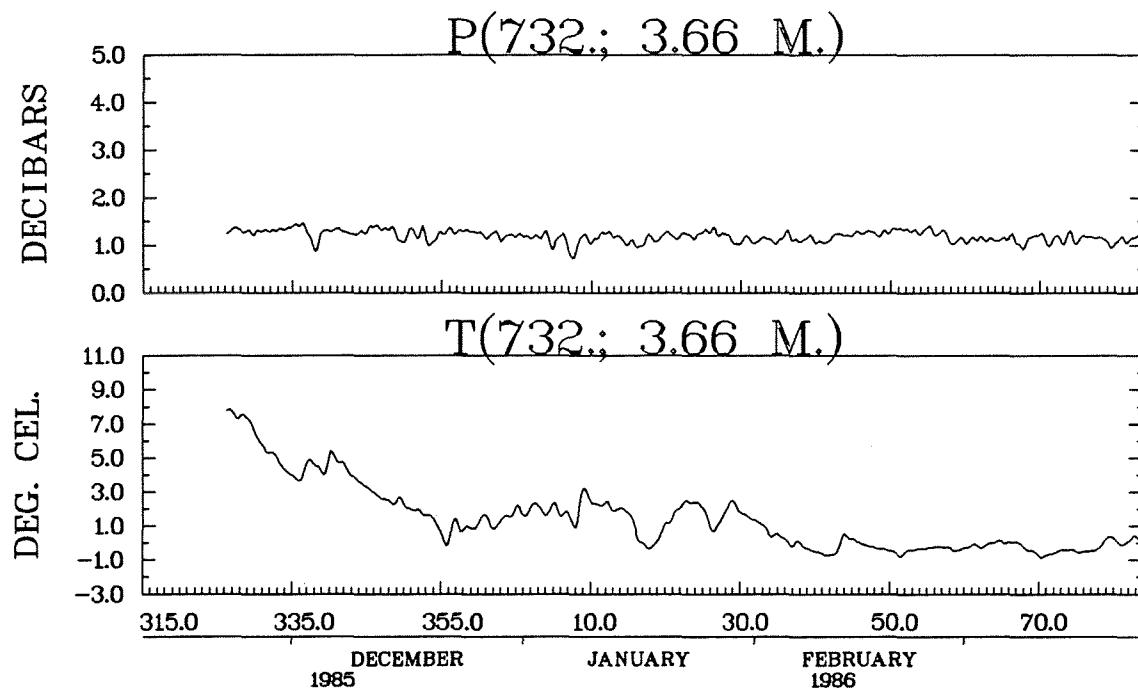
SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	1.543	-1.000	7.820	2.031	3311
PRESSURE(DECIBARS)	1.190	.000	2.360	.471	3311

COMMENTS

INSTRUMENT MALFUNCTIONED AFTER DAY 96, 1986.



CASP SAMBRO , N.S.
NOV. 19/1985 – APRIL 6/1986



CASP SAMBRO , N.S.
NOV. 19/1985 – APRIL 6/1986

HISTOGRAM OF T(732.; 3.66 M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	0	0.0	
-1.00	-.50	217	6.6	*****
-.50	0.00	698	21.1	*****
0.00	.50	398	12.0	*****
.50	1.00	234	7.1	*****
1.00	1.50	280	8.5	*****
1.50	2.00	462	14.0	*****
2.00	2.50	363	11.0	*****
2.50	3.00	103	3.1	*****
3.00	3.50	56	1.7	*****
3.50	4.00	83	2.5	*****
4.00	4.50	77	2.3	*****
4.50	5.00	81	2.4	*****
5.00	5.50	71	2.1	*****
5.50	6.00	18	.5	***
6.00	6.50	11	.3	**
6.50	7.00	12	.4	**
7.00	7.50	60	1.8	*****
7.50	8.00	87	2.6	*****

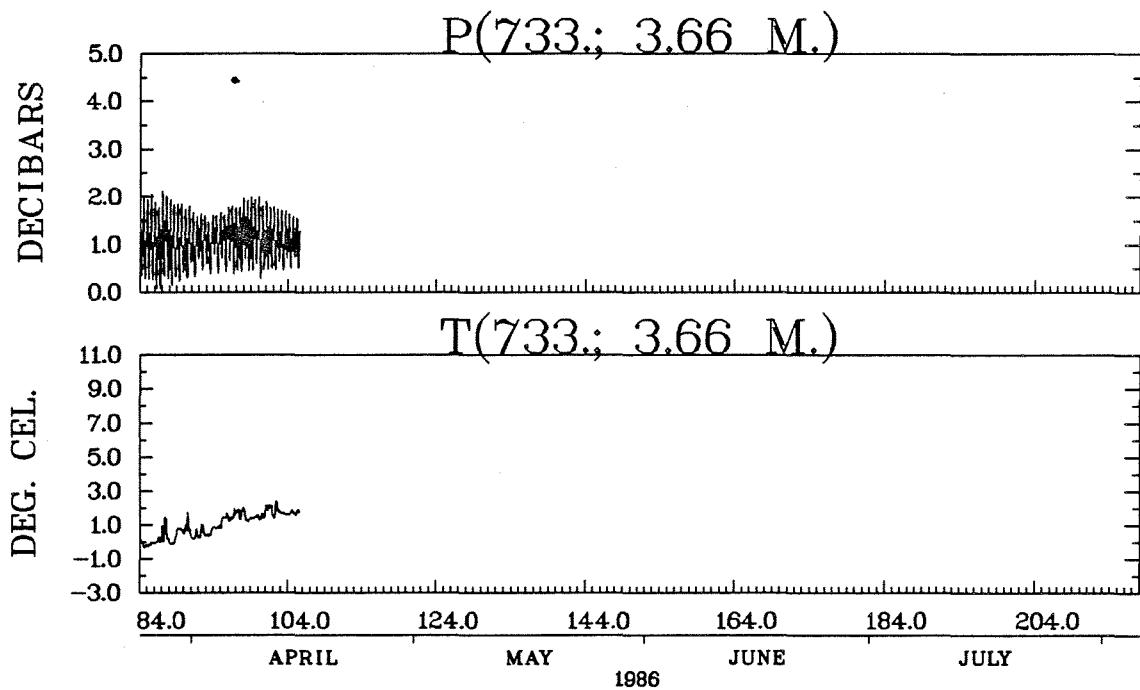
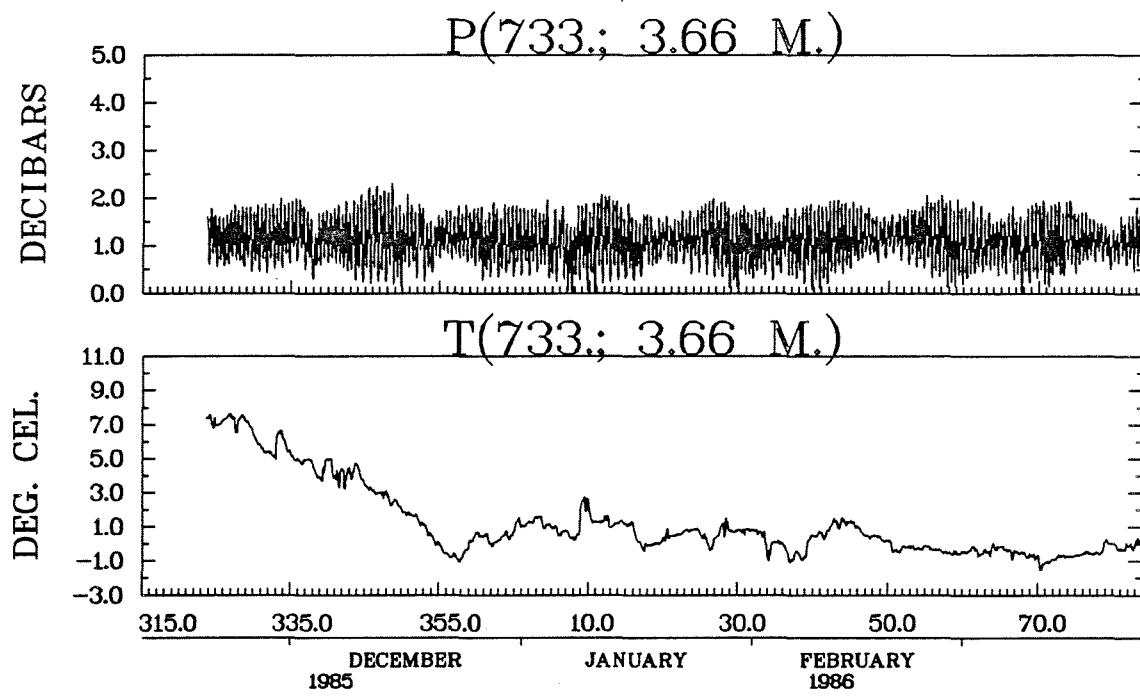
TOTAL NO. OF SAMPLES 3311

OUTSIDE RANGE 0

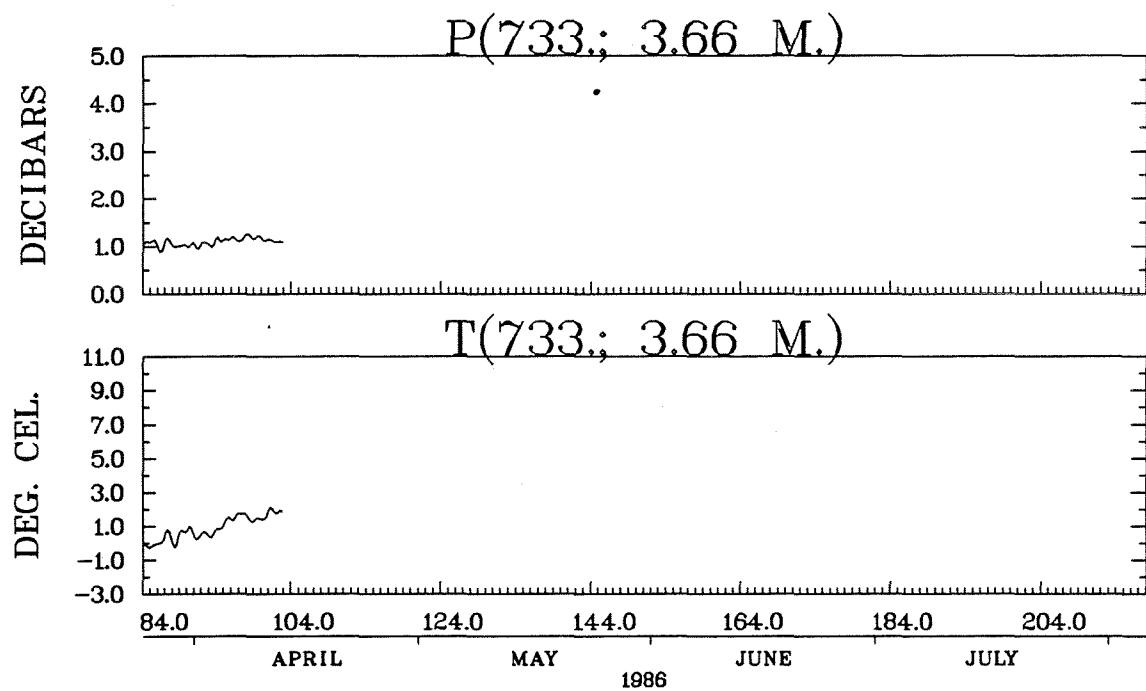
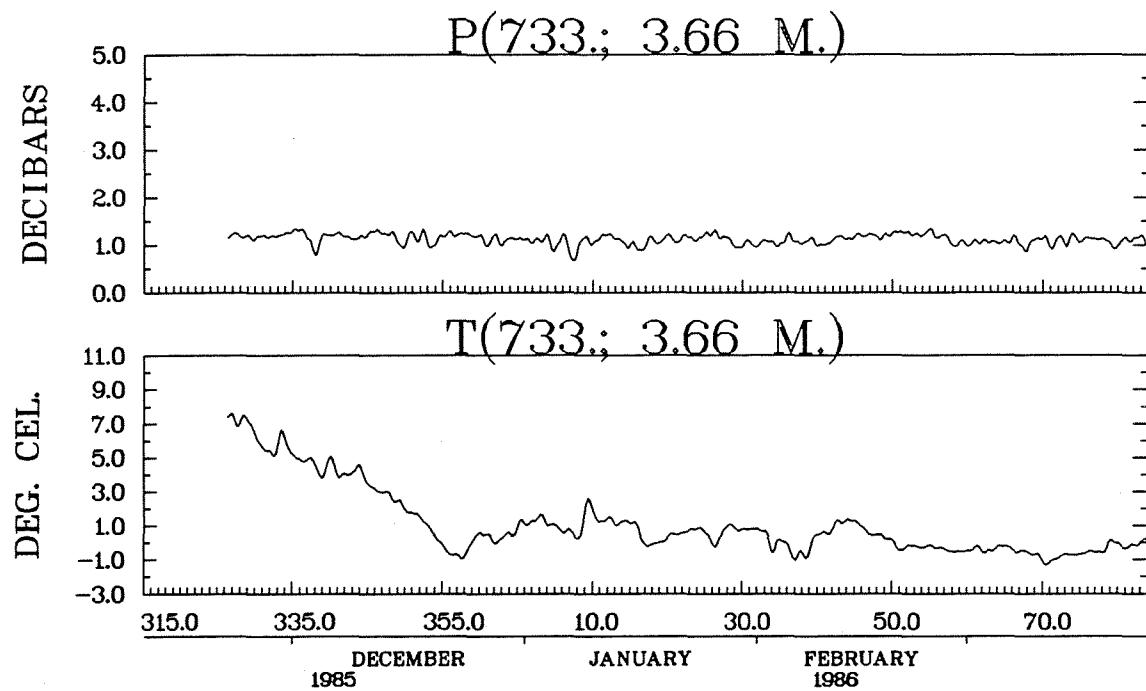
MOORING 733
DEPTH (M) 3.66

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 336
LATITUDE 44 47.09 N
LONGITUDE 62 45.77 W
WATER DEPTH (M) 3.66
MOORING DATE ; CRUISE 19/11/1985 ; 85-040
DURATION (DAYS) 146.92
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	1.221	-1.540	7.590	2.038	3526
PRESSURE(DECIBARS)	1.121	.000	2.300	.462	3526



CASP SHIP HARBOUR , N.S.
NOV. 19/1985 – APRIL 15/1986



CASP SHIP HARBOUR , N.S.
NOV. 19/1985 – APRIL 15/1986

HISTOGRAM OF T(733.; 3.66 M.) DEG. CEL.

BAND NUMBER PER
GE. LT. IN BAND CENT

-2.00	-1.50	2	.1	*
-1.50	-1.00	47	1.3	*****
-1.00	-.50	409	11.6	*****
-.50	0.00	635	18.0	*****
0.00	.50	550	15.6	*****
.50	1.00	536	15.2	*****
1.00	1.50	422	12.0	*****
1.50	2.00	239	6.8	*****
2.00	2.50	70	2.0	*****
2.50	3.00	57	1.6	*****
3.00	3.50	55	1.6	*****
3.50	4.00	56	1.6	*****
4.00	4.50	63	1.8	*****
4.50	5.00	99	2.8	*****
5.00	5.50	66	1.9	*****
5.50	6.00	30	.9	****
6.00	6.50	30	.9	****
6.50	7.00	39	1.1	****
7.00	7.50	101	2.9	*****
7.50	8.00	20	.6	***

TOTAL NO. OF SAMPLES 3526

OUTSIDE RANGE 0

MOORING 734
DEPTH (M) 4.57

INSTRUMENT TYPE	TIDE GAUGE WLR5
SERIAL NUMBER	345
LATITUDE	45 00.39 N
LONGITUDE	62 00.88 W
WATER DEPTH (M)	4.57
MOORING DATE ; CRUISE	19/11/1985 ; 85-040
DURATION (DAYS)	0.0
SAMPLE INTERVAL	30 MINUTES

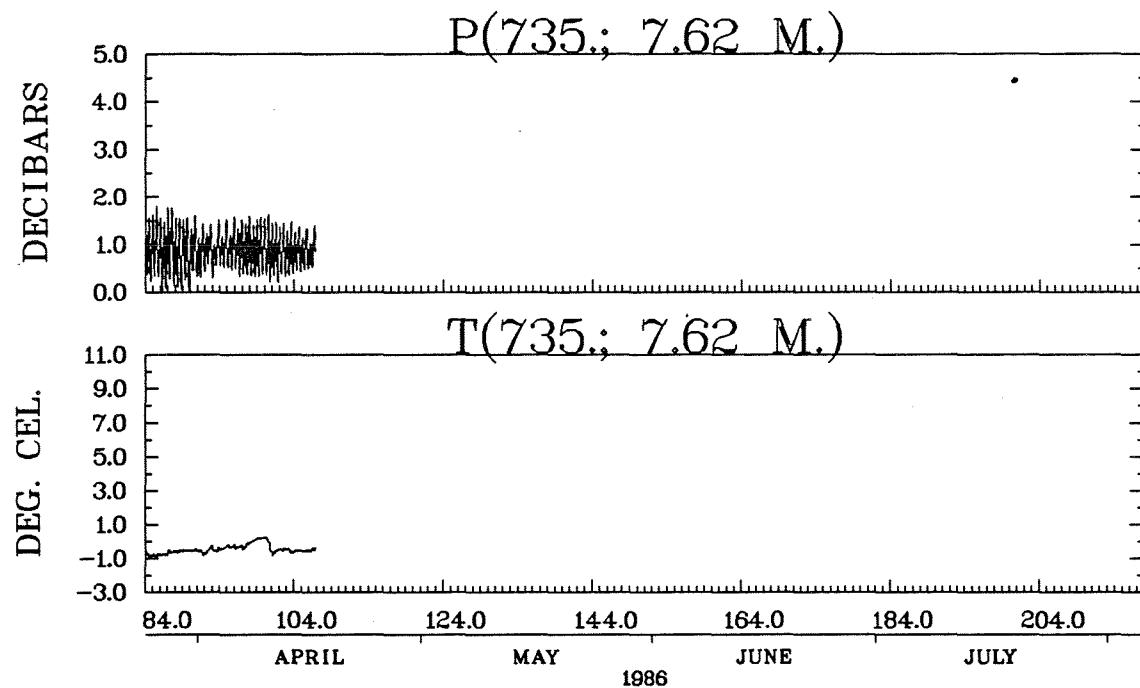
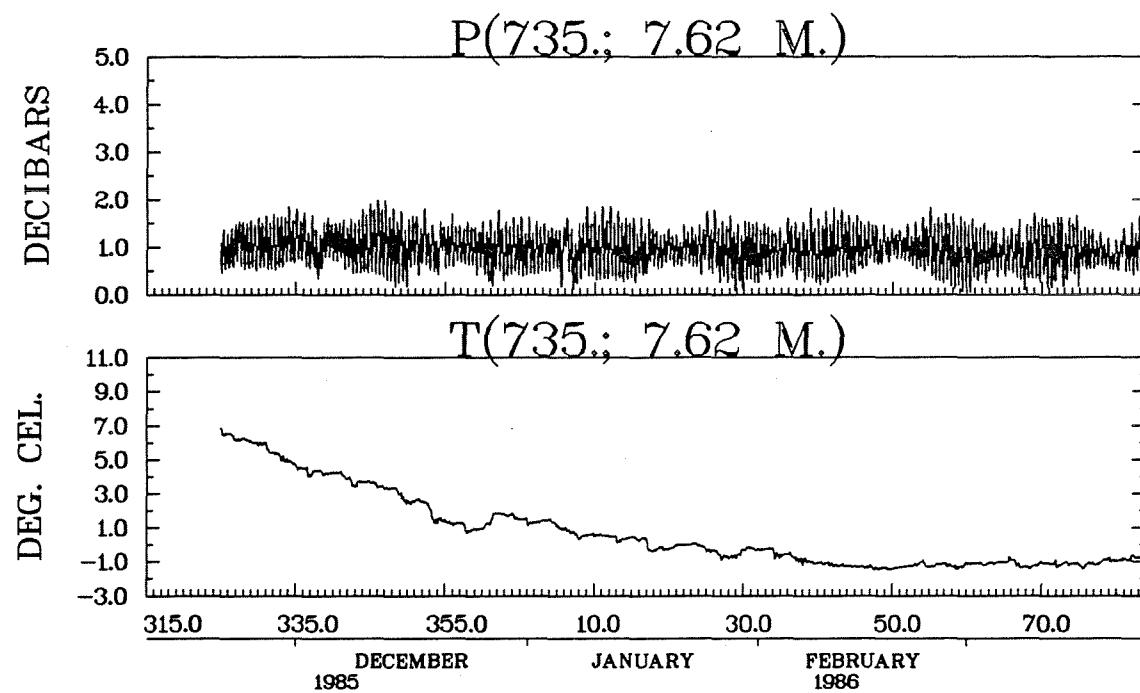
COMMENTS

GAUGE MALFUNCTIONED, TAPE SEEMS TO HAVE BEEN OFF THE CAPSTAN DRIVE, NO DATA AVAILABLE.

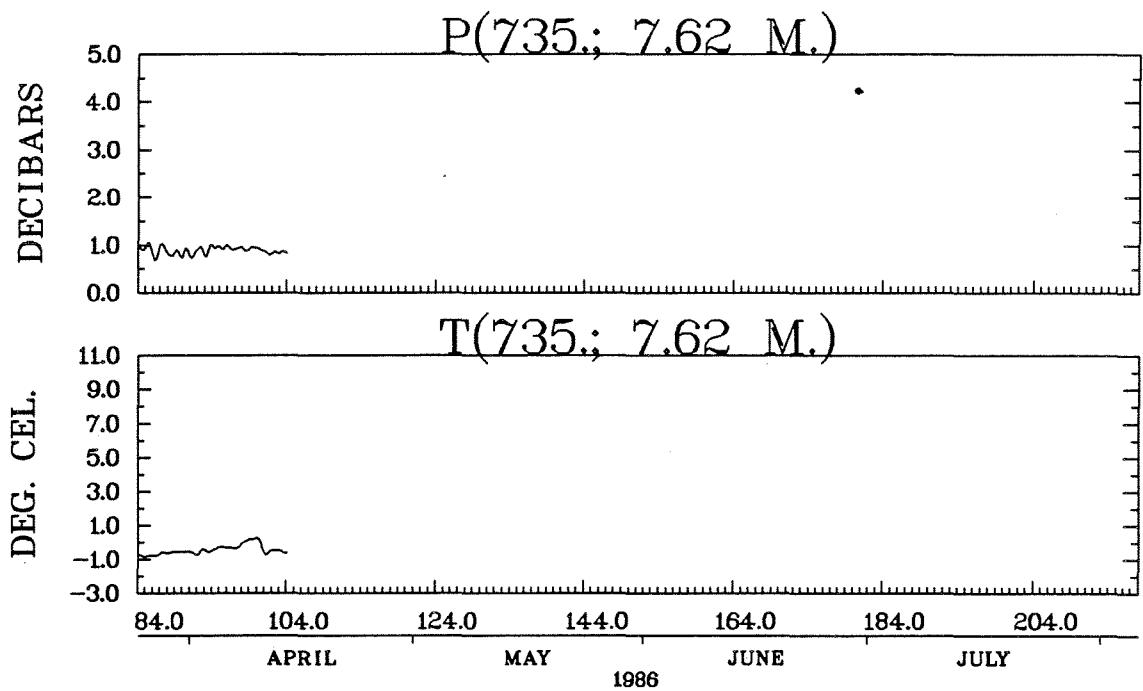
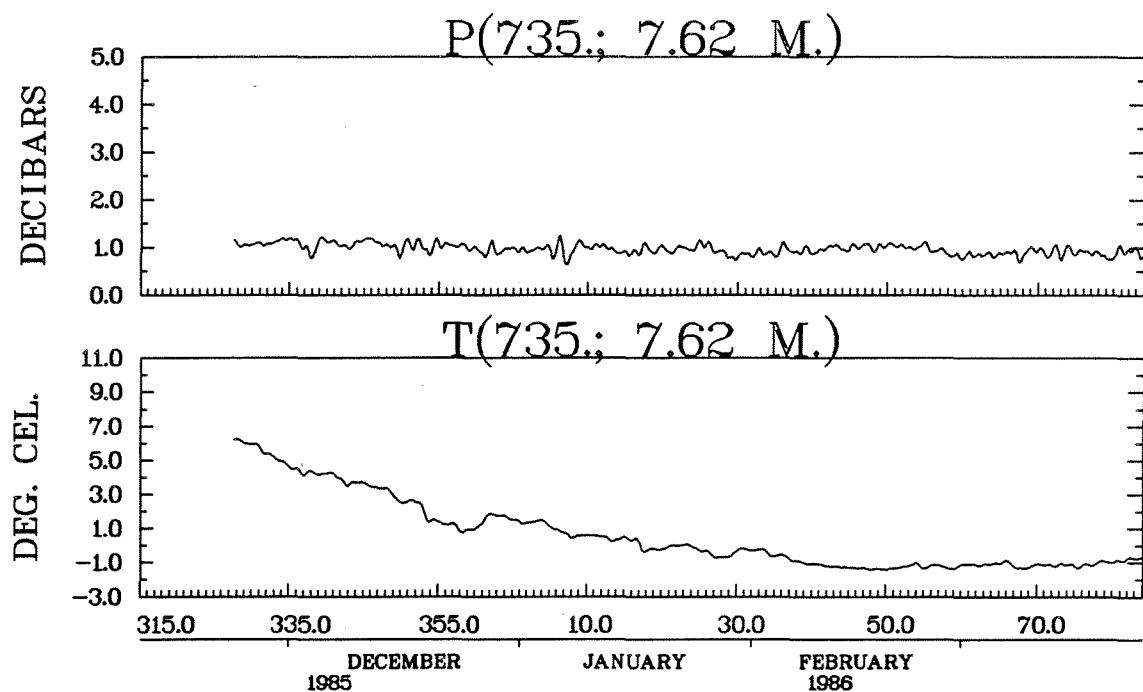
MOORING 735
DEPTH (M) 7.62

INSTRUMENT TYPE TIDE GAUGE WLR5
SERIAL NUMBER 346
LATITUDE 45 55.01 N
LONGITUDE 59 58.28 W
WATER DEPTH (M) 7.62
MOORING DATE ; CRUISE 20/11/1985 ; 85-040
DURATION (DAYS) 147.00
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	.571	-1.470	6.860	2.100	3528
PRESSURE(DECIBARS)	.957	.000	1.980	.389	3528



CASP LOUISBOURG HARBOUR , N.S.
NOV. 20/1985 - APRIL 16/1986



CASP LOUISBOURG HARBOUR , N.S.
NOV. 20/1985 - APRIL 16/1986

HISTOGRAM OF T(735.; 7.62 M.) DEG. CEL.

BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	0	0.0	
-1.50	-1.00	910	25.8	*****
-1.00	-.50	670	19.0	*****
-.50	0.00	488	13.8	*****
0.00	.50	213	6.0	*****
.50	1.00	215	6.1	*****
1.00	1.50	212	6.0	*****
1.50	2.00	140	4.0	*****
2.00	2.50	22	.6	***
2.50	3.00	82	2.3	*****
3.00	3.50	81	2.3	*****
3.50	4.00	94	2.7	*****
4.00	4.50	125	3.5	*****
4.50	5.00	67	1.9	*****
5.00	5.50	52	1.5	*****
5.50	6.00	38	1.1	****
6.00	6.50	91	2.6	*****
6.50	7.00	28	.8	***
7.00	7.50	0	0.0	
7.50	8.00	0	0.0	

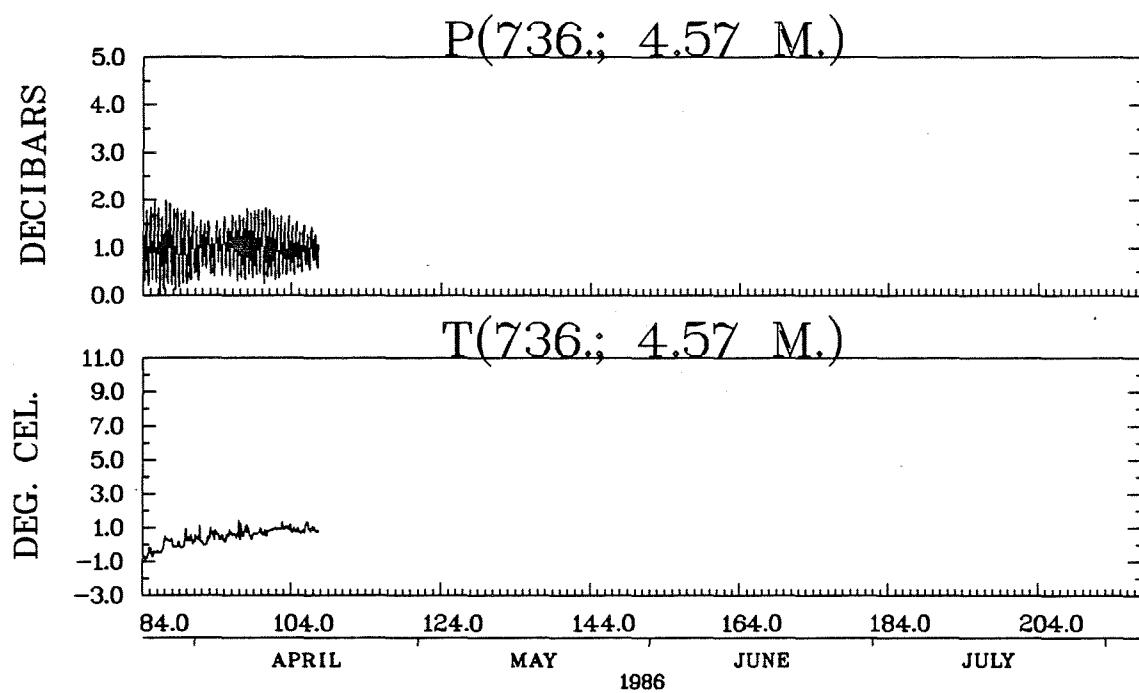
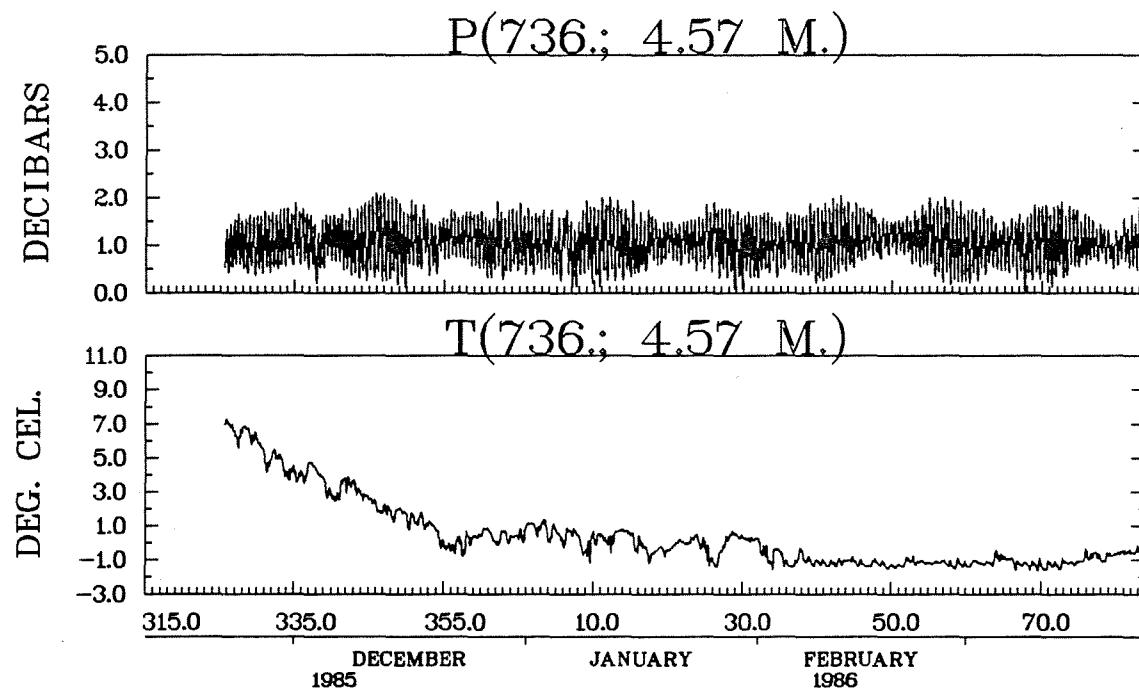
TOTAL NO. OF SAMPLES 3528

OUTSIDE RANGE 0

MOORING 736
DEPTH (M) 4.57

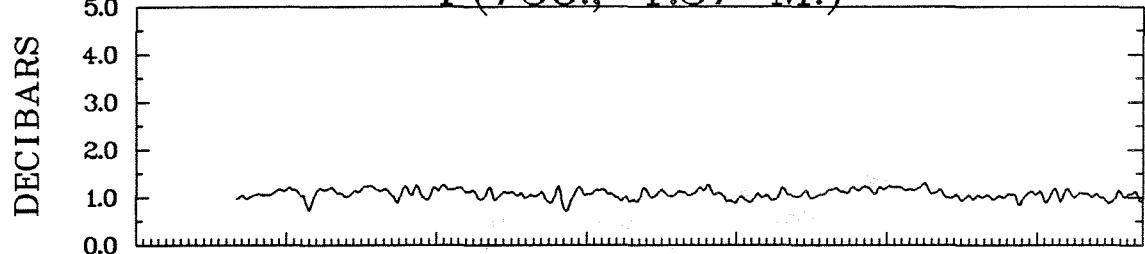
INSTRUMENT TYPE TIDE GAUGE WLRS
SERIAL NUMBER 350
LATITUDE 45 14.40 N
LONGITUDE 61 11.36 W
WATER DEPTH (M) 4.57
MOORING DATE ; CRUISE 21/11/1985 ; 85-040
DURATION (DAYS) 147.04
SAMPLE INTERVAL 60 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
TEMPERATURE(DEG. CEL.)	.461	-1.650	7.260	1.878	3529
PRESSURE(DECIBARS)	1.061	.000	2.090	.441	3529

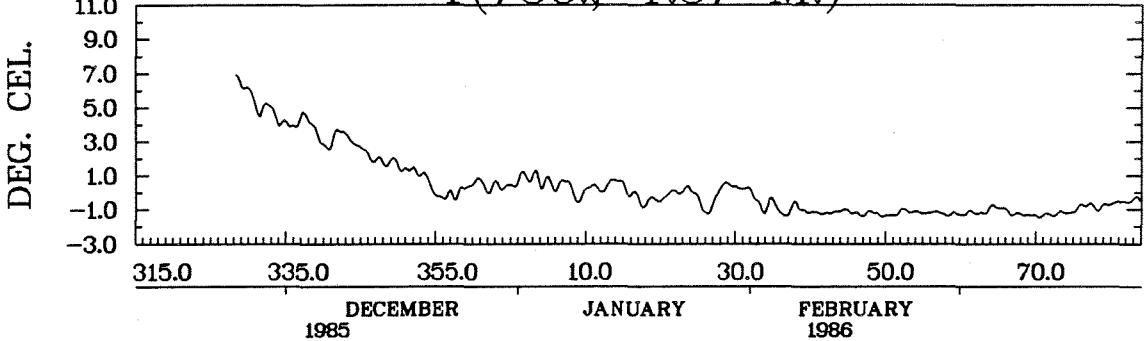


CASP WHITEHEAD HARBOUR , N.S.
NOV. 21/1985 – APRIL 17/1986

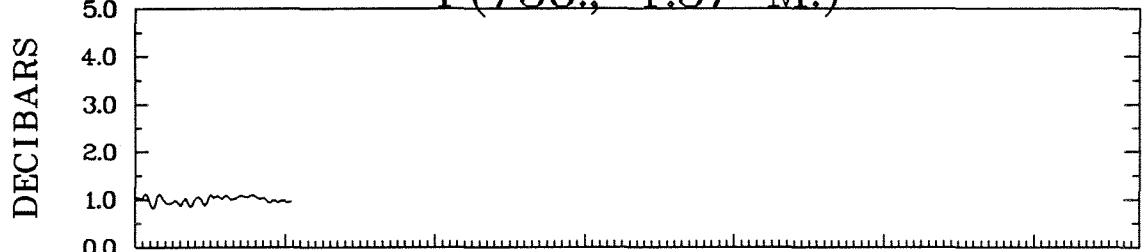
P(736.; 4.57 M.)



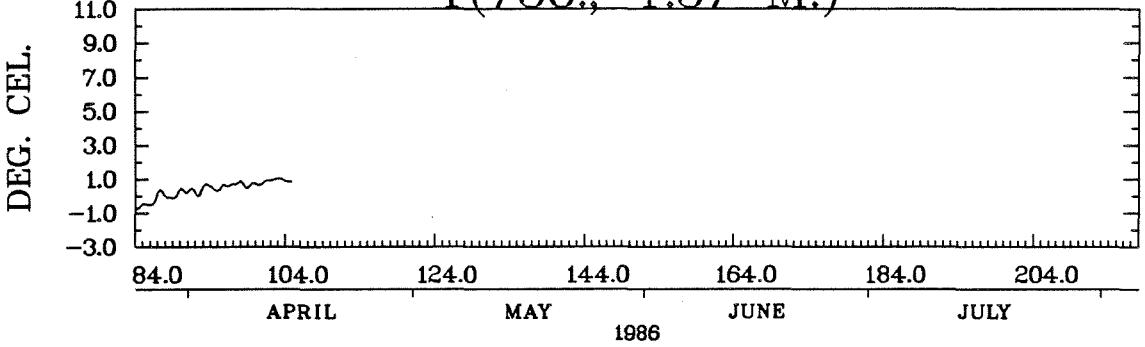
T(736.; 4.57 M.)



P(736.; 4.57 M.)



T(736.; 4.57 M.)



CASP WHITEHEAD HARBOUR , N.S.
NOV. 21/1985 – APRIL 17/1986

HISTOGRAM OF T(736.; 4.57 M.) DEG. CEL.

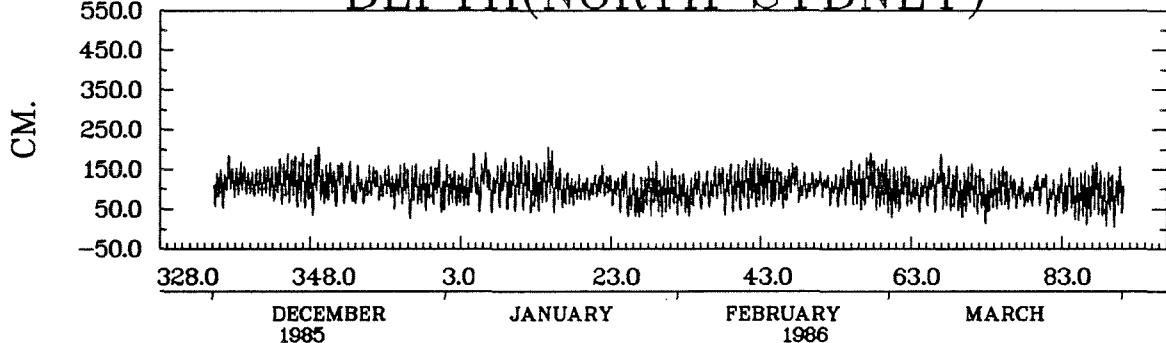
BAND NUMBER PER
.GE. .LT. IN BAND CENT

-2.00	-1.50	30	.9	****
-1.50	-1.00	867	24.6	*****
-1.00	-.50	381	10.8	*****
-.50	0.00	411	11.6	*****
0.00	.50	560	15.9	*****
.50	1.00	528	15.0	*****
1.00	1.50	146	4.1	*****
1.50	2.00	89	2.5	*****
2.00	2.50	44	1.2	****
2.50	3.00	76	2.2	*****
3.00	3.50	34	1.0	****
3.50	4.00	88	2.5	*****
4.00	4.50	64	1.8	*****
4.50	5.00	60	1.7	*****
5.00	5.50	25	.7	***
5.50	6.00	28	.8	****
6.00	6.50	37	1.0	****
6.50	7.00	51	1.4	*****
7.00	7.50	10	.3	**
7.50	8.00	0	0.0	

TOTAL NO. OF SAMPLES 3529

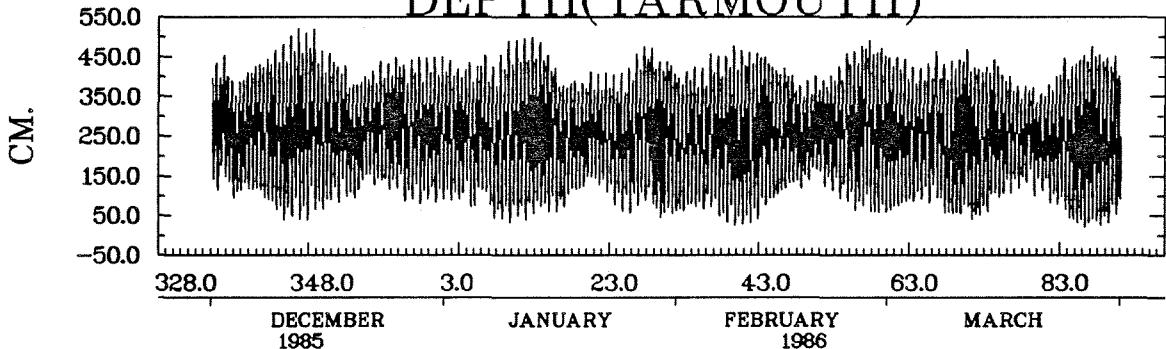
OUTSIDE RANGE 0

DEPTH(NORTH SYDNEY)



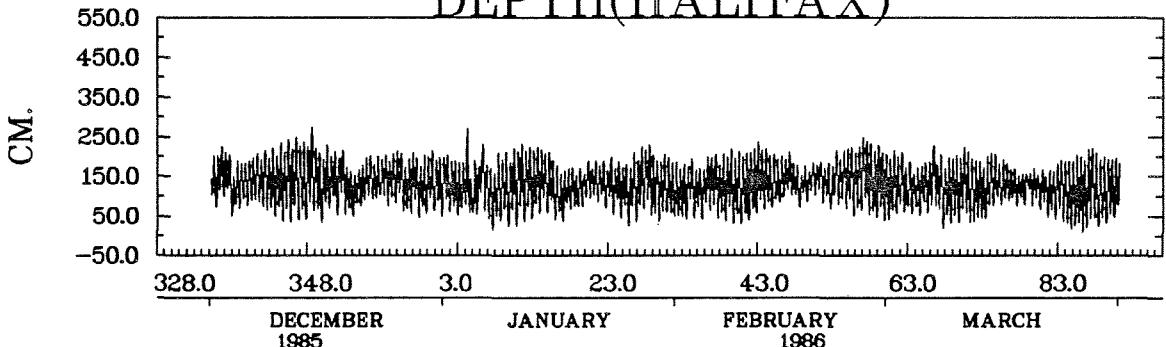
SEA LEVELS DECEMBER 1985 – MARCH 1986

DEPTH(YARMOUTH)

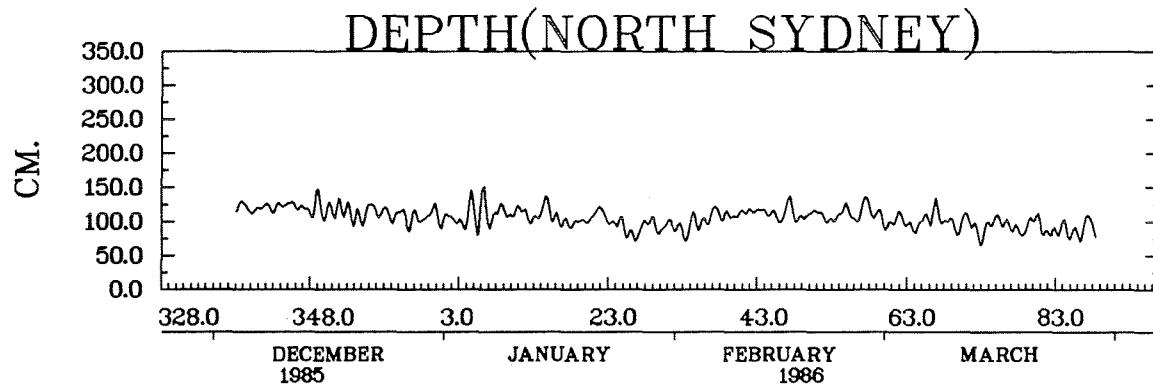


SEA LEVELS DECEMBER 1985 – MARCH 1986

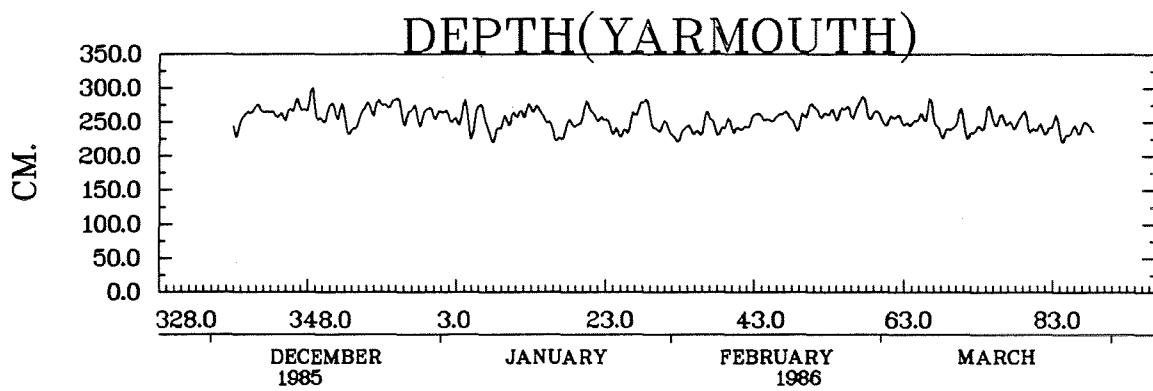
DEPTH(HALIFAX)



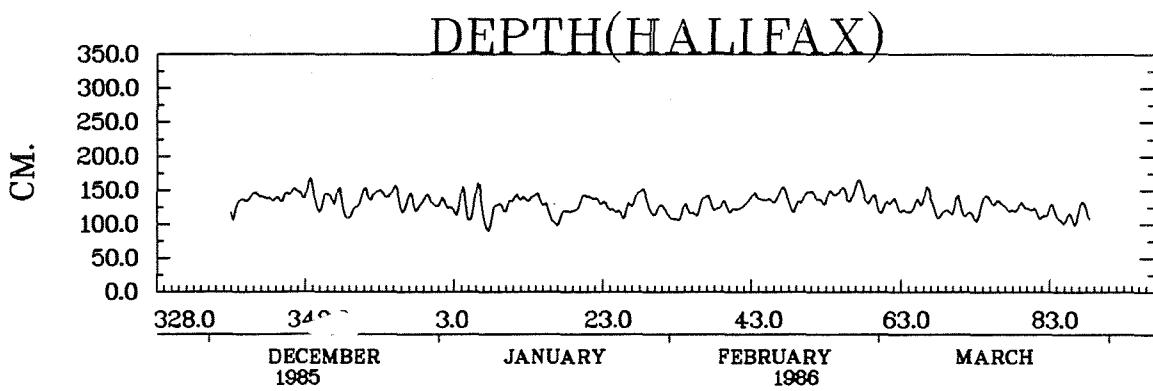
SEA LEVELS DECEMBER 1985 – MARCH 1986



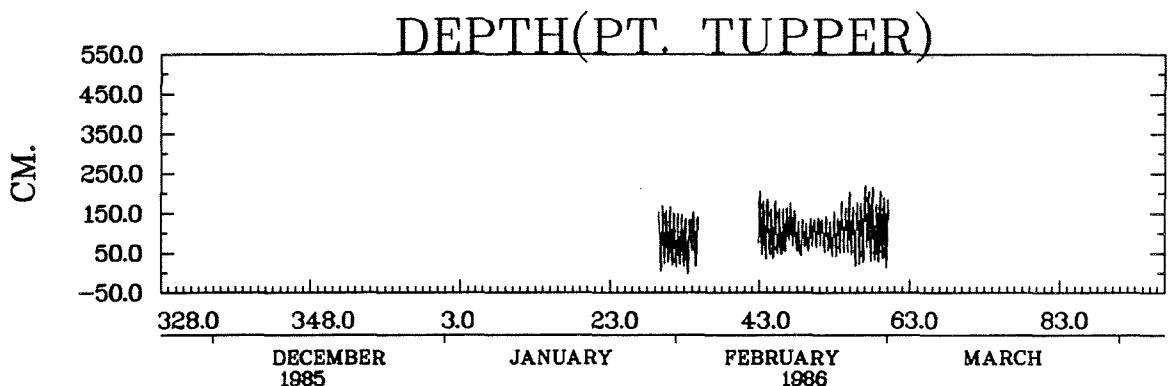
SEA LEVELS DECEMBER 1985 – MARCH 1986



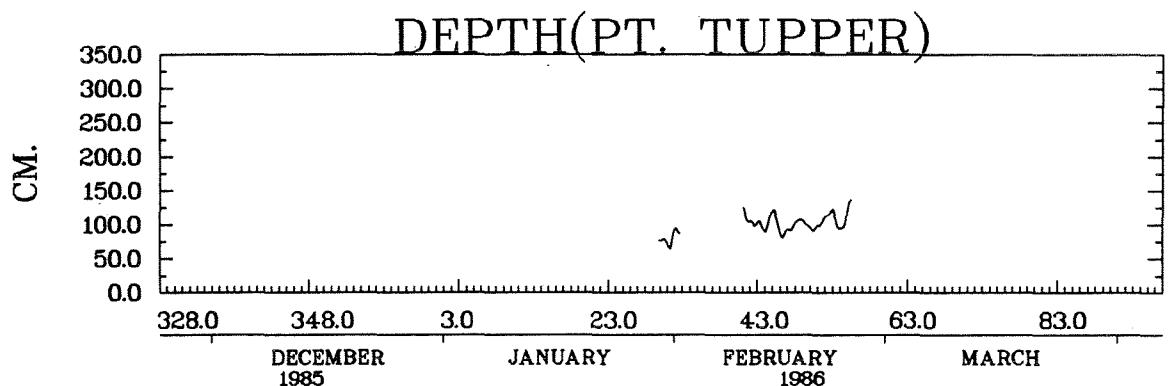
SEA LEVELS DECEMBER 1985 – MARCH 1986



SEA LEVELS DECEMBER 1985 – MARCH 1986



SEA LEVELS JAN. 29/1986 - FEB. 28/1986



SEA LEVELS JAN. 29/1986 - FEB. 28/1986

TABLE 9
CTD Station Data

Dawson 85-040, 22 Nov. - 2 Dec., 1985

<u>STN</u>	<u>N. LAT</u>	<u>W. LONG</u>	<u>TIME/DAY</u>	<u>DEPTH</u>	<u>COMMENT</u>
1	44°10.07'	62°51.60'	0311/327	217m	
2	44°18.89'	62°56.43'	0442/327	170m	
3	44°27.59'	62°59.09'	0608/327	90m	
4	44°32.76'	63°04.18'	0731/327	65m	
5	44°52.11'	61°54.67'	0427/328	72m	
6	44°47.90'	61°51.70'	0617/328	90m	
7	44°41.92'	61°48.73'	0727/328	125m	
8	44°36.94'	61°45.79'	0944/328	153m	
9	44°30.01'	61°41.16'	1059/328	165m	
10	44°52.24'	61°55.24'	2003/328	58m	
11	44°48.03'	61°51.61'	2050/328	92m	
12	44°41.99'	61°48.65'	2151/328	128m	
13	44°37.21'	61°45.50'	2240/328	155m	
14	44°29.94'	61°41.12'	2338/328	165m	
15	44°23.07'	61°37.65'	0043/329	171m	
16	44°16.52'	61°33.79'	0145/329	132m	
17	44°09.56'	61°29.99'	0250/329	156m	
18	44°02.78'	61°25.93'	0358/329	135m	
19	43°55.59'	61°21.88'	0506/329	58m	
20	44°39.85'	62°17.19'	1013/329	120m	
21	42°57.47'	62°11.37'	1120/331	185m	
22	43°07.03'	62°16.03'	1425/331	107m	Bad data sets on up trace
23	43°15.93'	62°21.00'	1534/331	95m	
24	43°25.88'	62°26.09'	1651/331	83m	
25	43°34.96'	62°31.11'	1802/331	79m	Bad data sets on up trace
26	43°43.02'	62°36.13'	1908/331	133m	Bad data sets up & down trace
27	43°50.03'	62°40.14'	2012/331	190m	
28	43°56.97'	62°44.11'	2115/331	224m	Bad data sets on up trace
29	44°08.90'	62°50.94'	2239/331	228m	Bad data sets on up trace
30	44°18.89'	62°57.08'	2352/331	170m	
31	44°27.03'	62°59.51'	0057/332	104m	
32	44°31.94'	63°03.93'	0146/332	60m	

TABLE 9 (Continued)

<u>STN</u>	<u>N. LAT</u>	<u>W. LONG</u>	<u>TIME/DAY</u>	<u>DEPTH</u>	<u>COMMENT</u>
33	44°08.90'	62°51.62'	2112/332	220m	There are 2 up traces. The first is a continuation of the down trace.
34	44°18.35'	62°56.51'	2228/332	175m	No sample drawn
35	44°26.52'	62°38.99'	2327/332	155m	
36	44°32.29'	63°03.74'	0020/333	67m	
37	44°27.47'	62°56.56'	0203/333	129m	
38	44°27.47'	62°56.56'	0301/333	129m	
39	44°27.47'	62°56.56'	0359/333	129m	Rosette bottle # 2 leaked
40	44°27.48'	62°56.56'	0501/333	110m	
41	44°27.48'	62°56.55'	0601/333	110m	
42	44°27.48'	62°56.55'	0701/333	116m	
43	44°27.47'	62°56.57'	0802/333	110m	
44	44°27.47'	62°56.58'	0900/333	114m	
45	44°27.48'	62°56.57'	1001/333	116m	
46	44°27.48'	62°56.57'	1100/333	116m	
47	44°27.48'	62°56.56'	1201/333	115m	
48	44°27.49'	62°56.55'	1300/333	117m	
49	44°27.48'	62°56.54'	1400/333	116m	
50	44°27.48'	62°56.55'	1500/333	116m	
51	44°27.49'	62°56.54'	1559/333	116m	
52	44°52.27'	61°54.85'	2034/333	65m	Bad data sets on up trace
53	44°46.97'	61°51.55'	2124/333	98m	Bad data sets on up trace
54	44°42.17'	61°48.47'	2209/333	123m	
55	44°34.69'	61°45.39'	2307/333	155m	Bad data sets on up trace
56	44°30.16'	61°42.10'	2358/333	165m	Bad data sets on up trace
57	44°21.05'	61°36.11'	0126/334	167m	Bad data sets on up trace
58	44°11.72'	61°31.10'	0239/334	120m	
59	44°02.50'	61°25.84'	0355/334	137m	
60	43°53.19'	61°21.10'	0505/334	60m	
61	43°43.84'	61°16.05'	0613/334	50m	
62	43°34.44'	61°10.62'	0722/334	62m	
63	43°25.37'	61°05.55'	0830/334	73m	
64	43°16.10'	61°00.10'	0947/334	195m	Bad data sets on up trace
65	44°08.22'	60°21.78'	1509/334	88m	Bad data sets on down trace
66	44°17.38'	60°26.85'	1650/334	140m	

TABLE 9 (Continued)

<u>STN</u>	<u>N. LAT</u>	<u>W. LONG</u>	<u>TIME/DAY</u>	<u>DEPTH</u>	<u>COMMENT</u>
67	44° 26.74'	60° 32.00'	1823/334	45m	Only 3 bottles tripped-Rosette switch may have been in wrong position
68	44° 35.73'	60° 37.22'	1930/334	43m	Bad data sets on up trace
69	44° 45.07'	60° 42.55'	2053/334	195m	
70	44° 54.04'	60° 47.82'	2213/334	220m	
71	45° 03.11'	60° 54.03'	2337/334	200m	Bad data sets on up trace
72	45° 07.51'	60° 55.51'	0034/335	102m	Bad data sets on up trace
73	45° 12.08'	60° 58.04'	0120/335	61m	Bad data sets on up trace
74	45° 54.47'	59° 45.50'	0733/335	69m	Bad data sets on up trace
75	45° 50.16'	59° 43.30'	0817/335	73m	
76	45° 45.15'	59° 40.48'	0908/335	130m	
77	45° 35.88'	59° 34.70'	1026/335	155m	
78	45° 26.52'	59° 28.97'	1141/335	115m	Bad data sets on up trace
79	45° 16.77'	59° 23.47'	1258/335	98m	Rosette btl # 5 didn't close
80	45° 07.59'	59° 18.06'	1408/335	100m	Bad data sets on up trace
81	44° 57.86'	59° 12.68'	1521/335	80m	
82	44° 48.16'	59° 07.46'	1632/335	230m	
83	44° 37.90'	59° 01.37'	1747/335	195m	
84	44° 28.97'	58° 56.21'	1908/335	51m	
85	44° 19.17'	58° 51.12'	2012/335	69m	
86	44° 09.45'	58° 45.20'	2120/335	65m	
87	44° 00.11'	58° 40.02'	2226/335	130m	
88	44° 36.11'	62° 31.75'	1150/336	105m	
89	44° 31.61'	62° 49.94'	1319/336	100m	Rosette bottle # 1 broke

TABLE 10**Shipboard CTD Calibrations****Dawson 85-040, 22 Nov. - 2 Dec. 1985**

<u>Salinity</u>	<u>No. of Samples</u>	<u>Mean Difference (CTD-SHIP)</u>	<u>Std Deviation</u>	<u>Probe</u>
Stns 1-89	154	0.0006	0.0071	BIO #8
<u>Temperature</u>				
1-89	84	0.001	0.0141	BIO #8

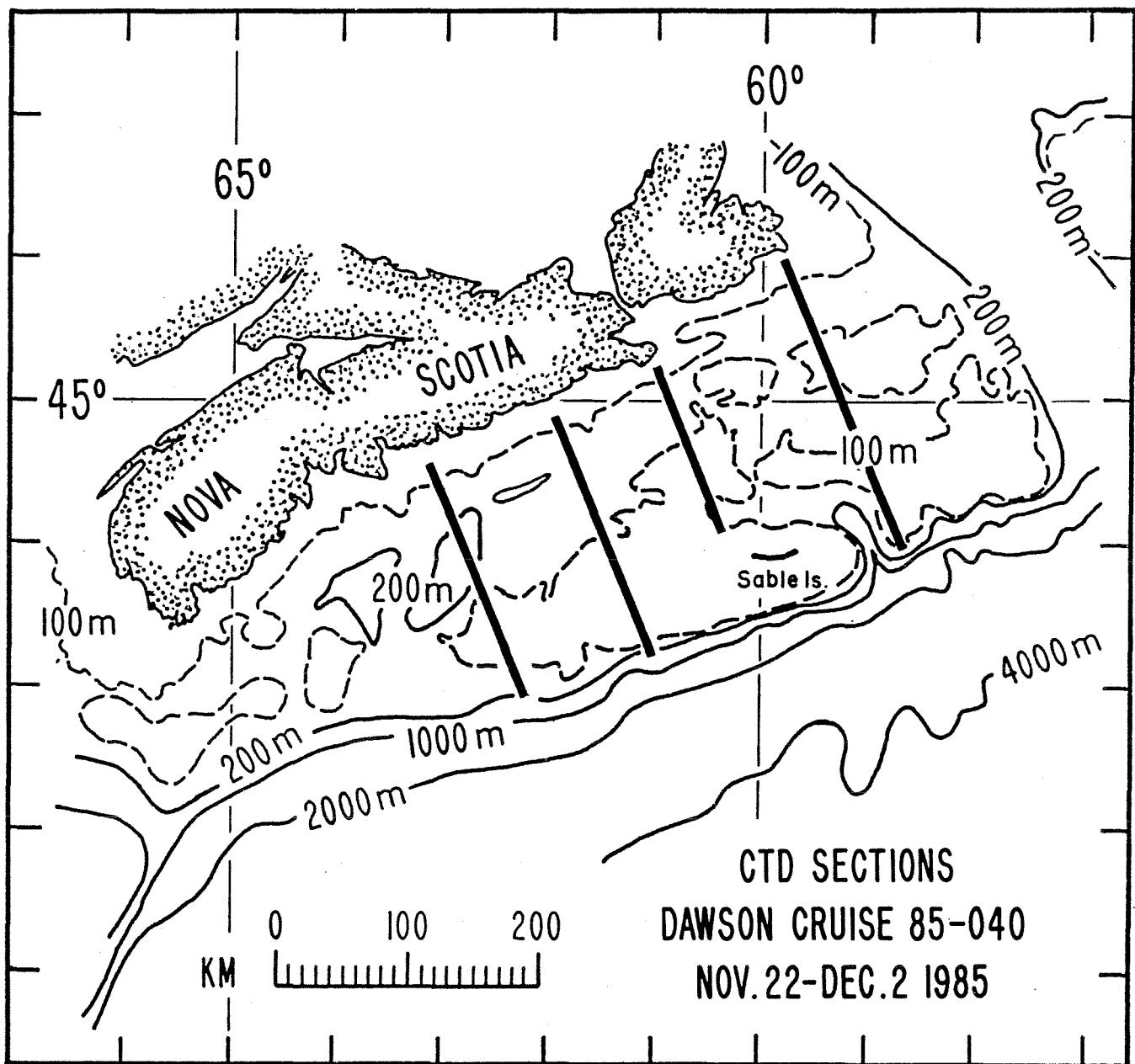
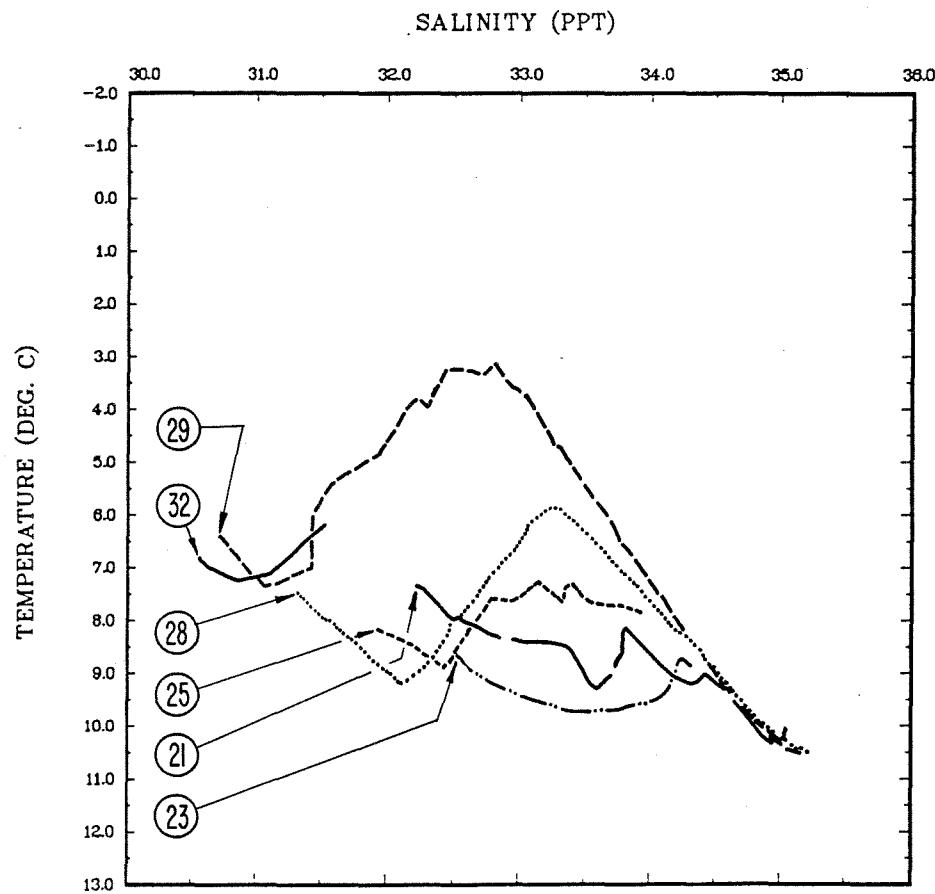
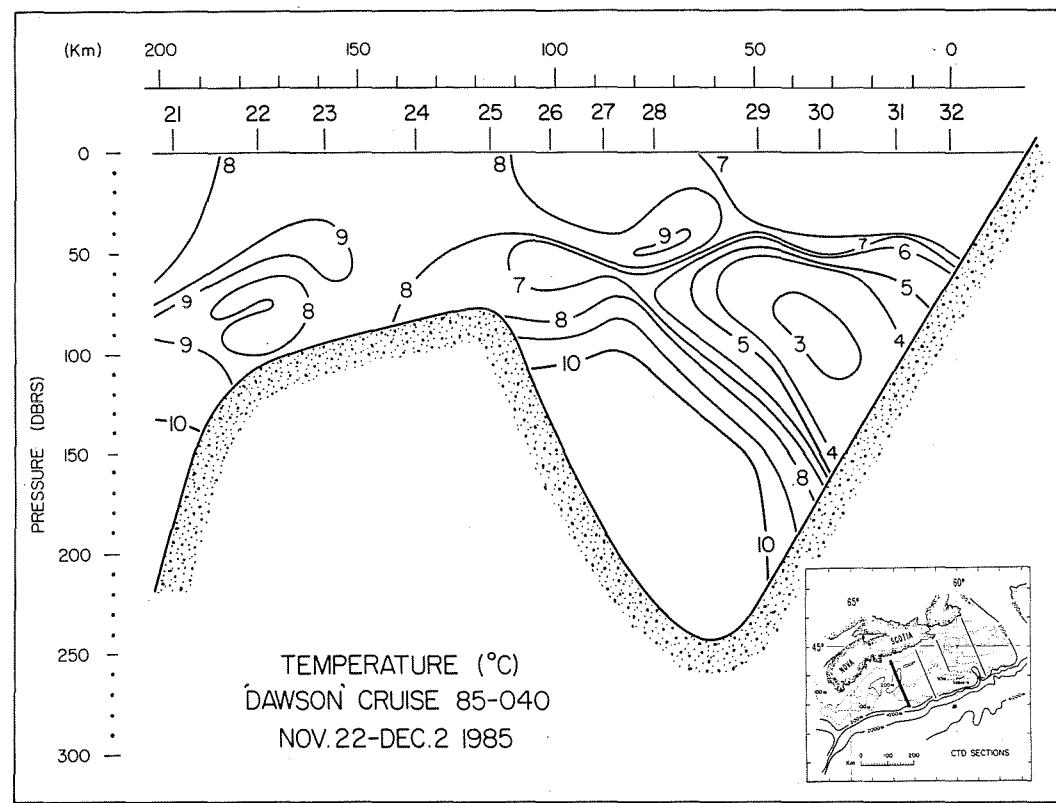
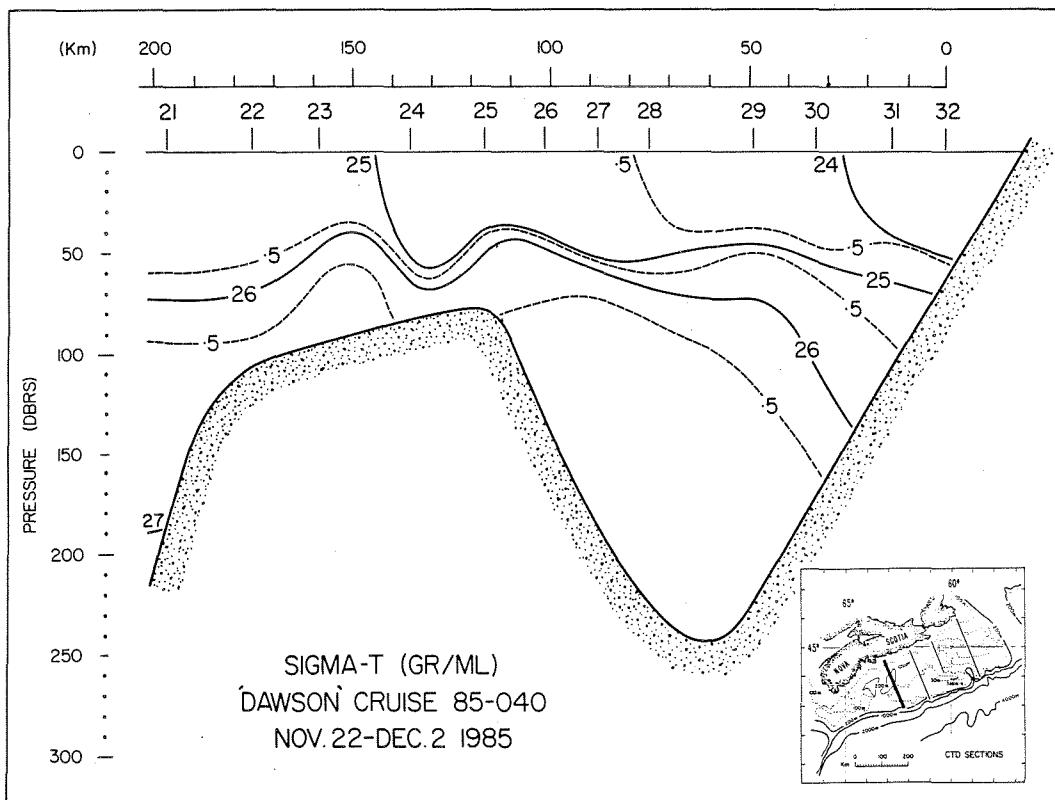
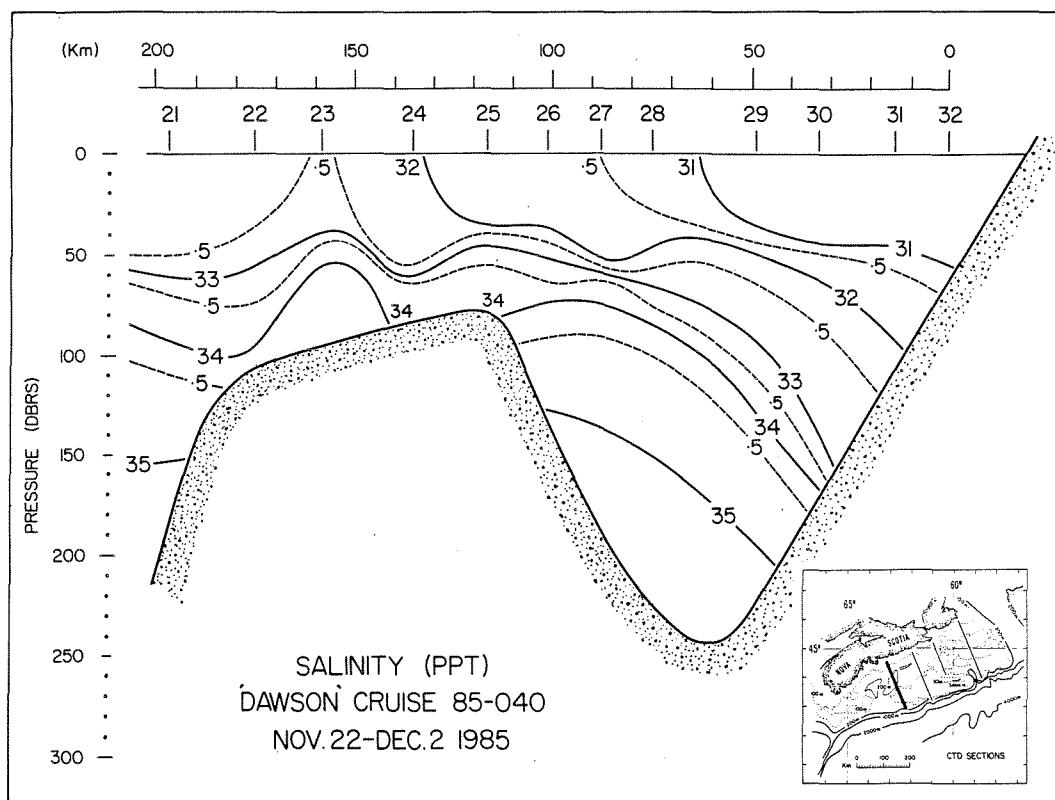
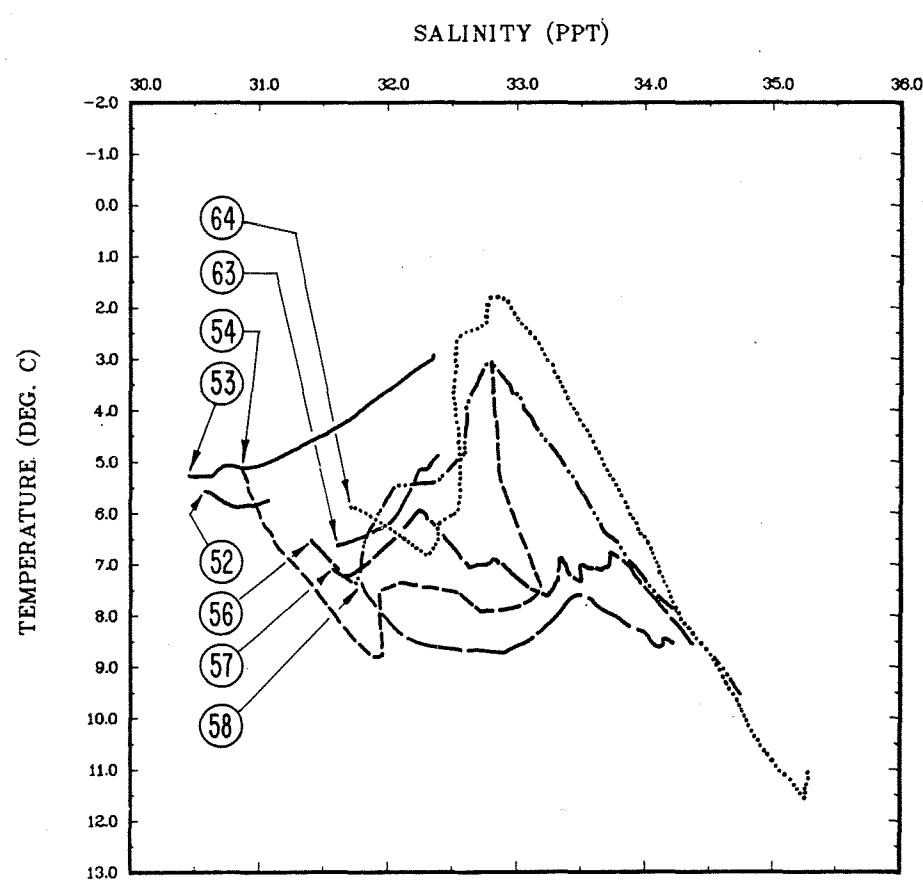
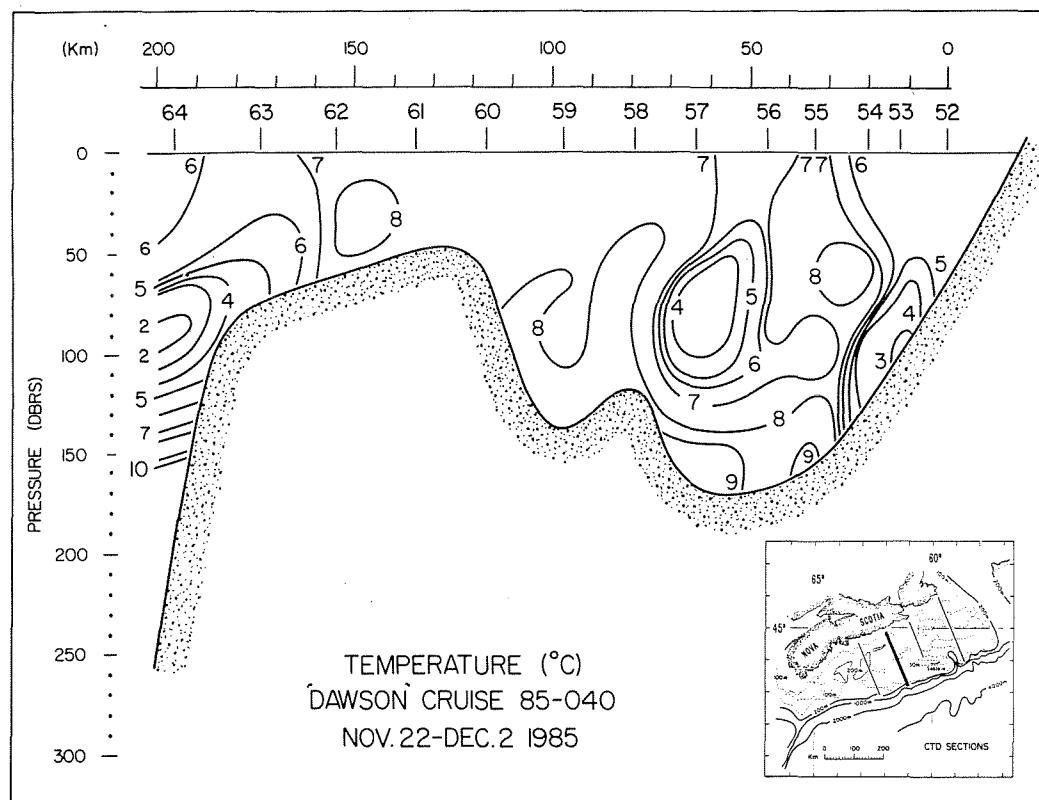
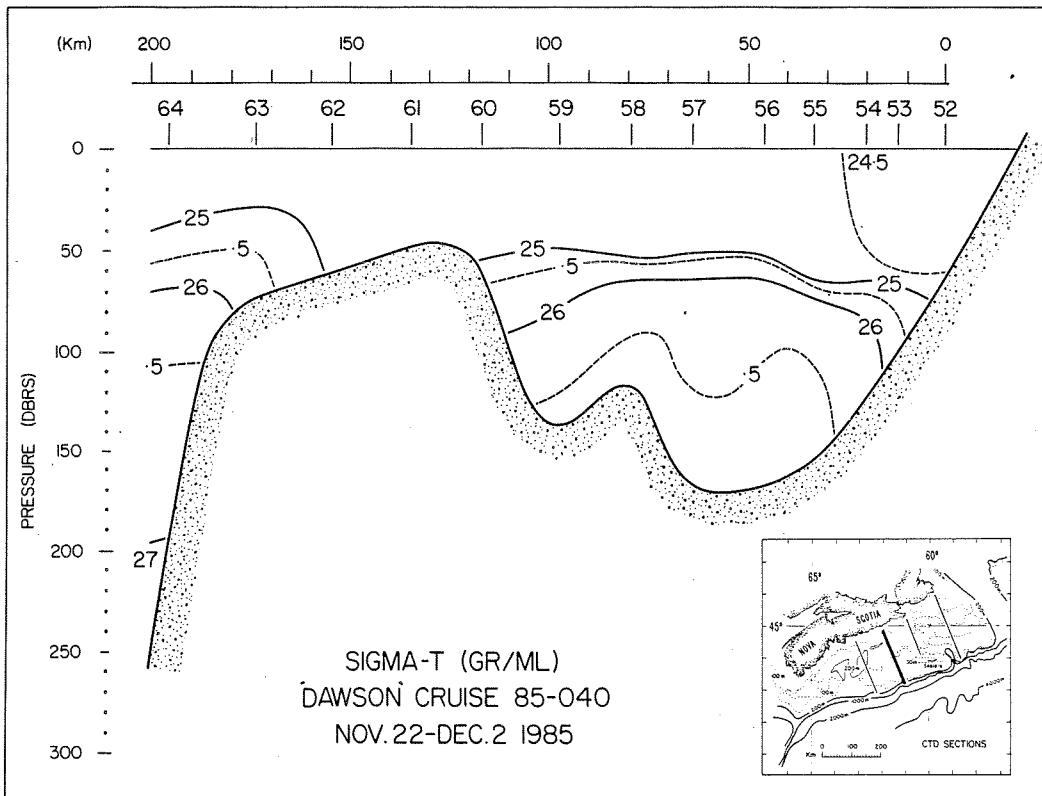
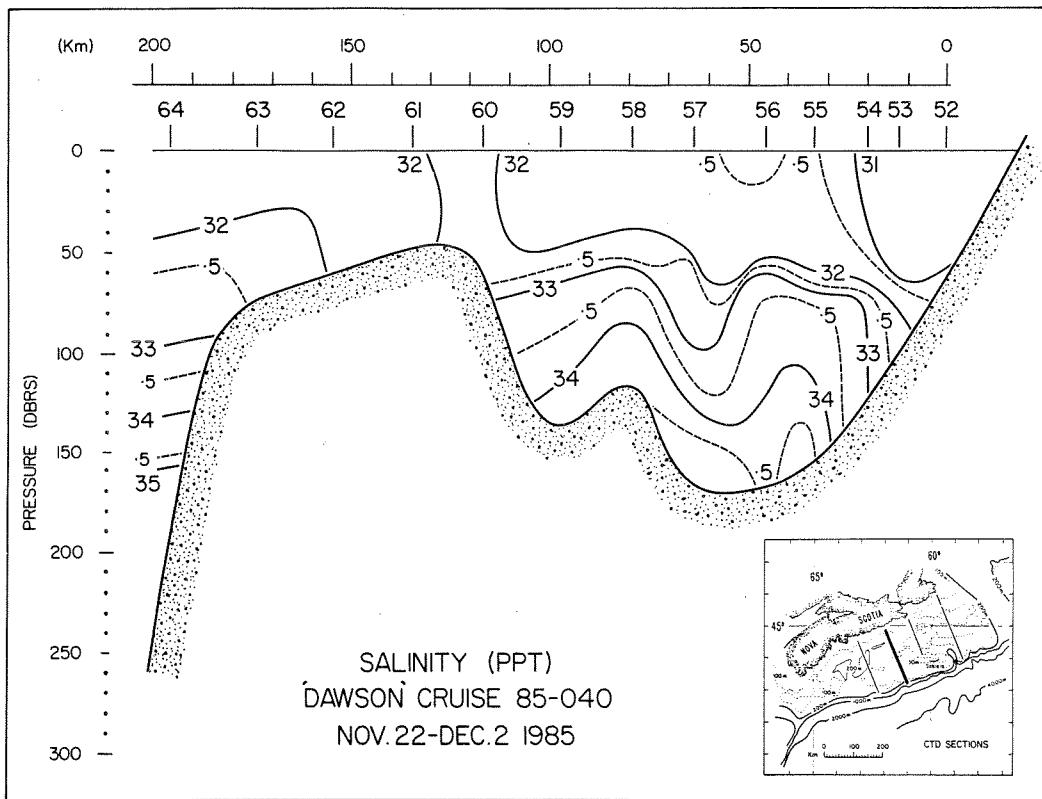


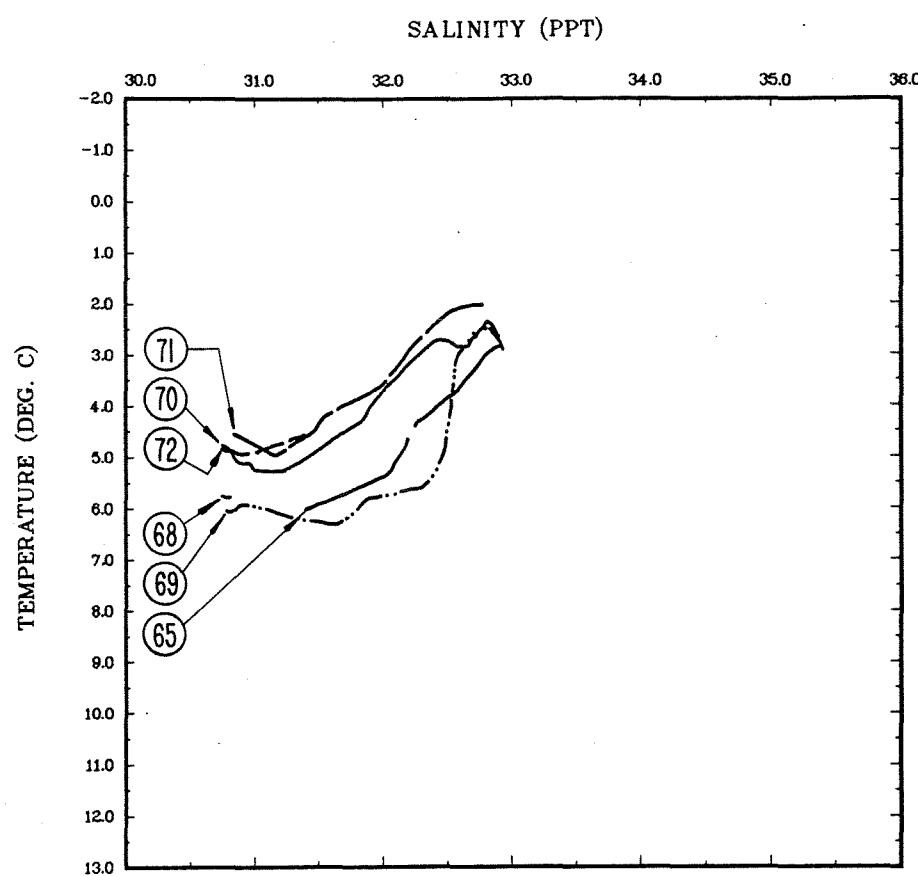
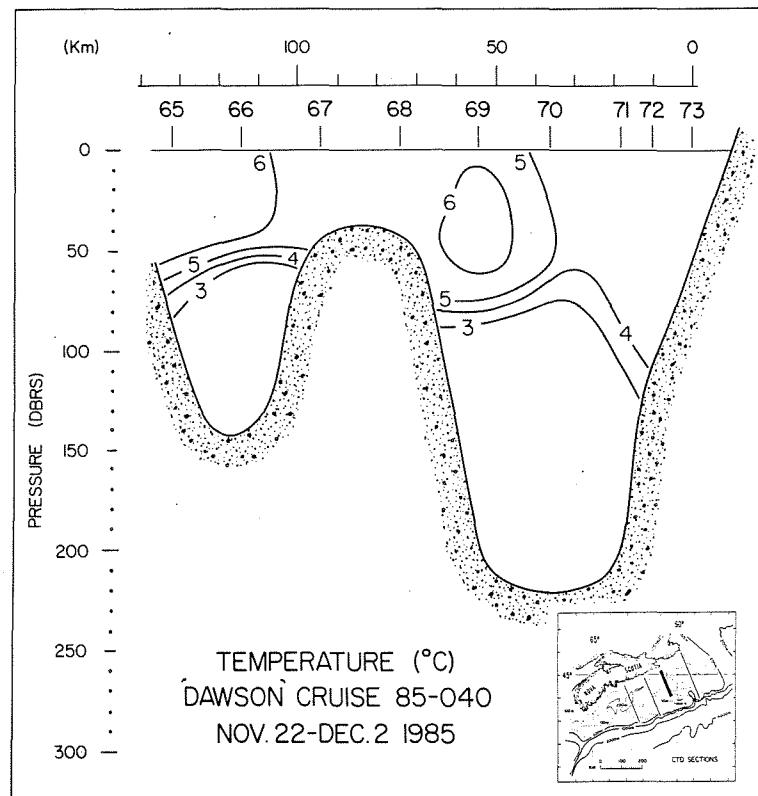
Figure 11 CASP CTD Sections for Cruise 85-040

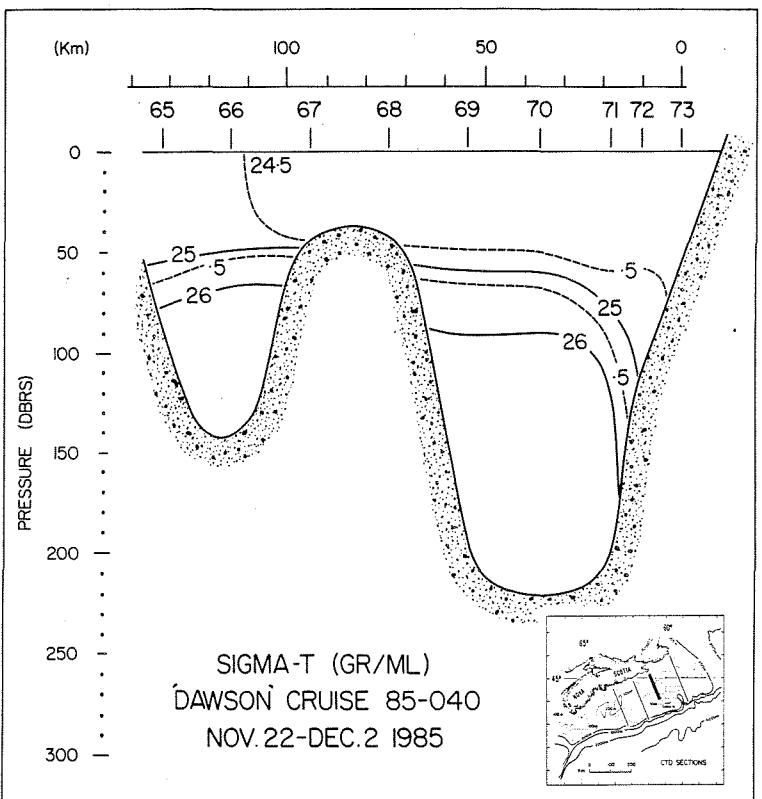
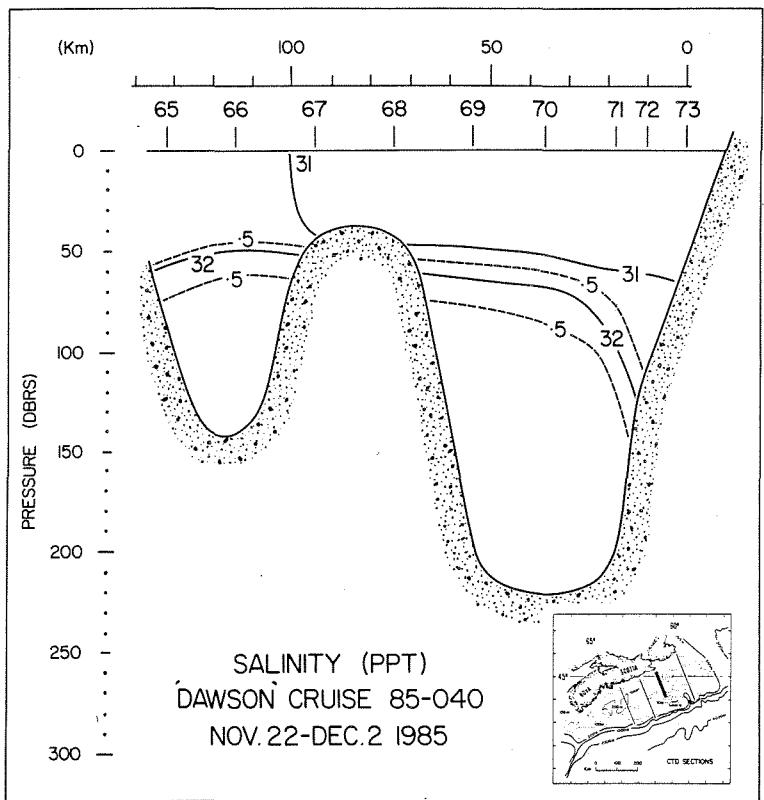


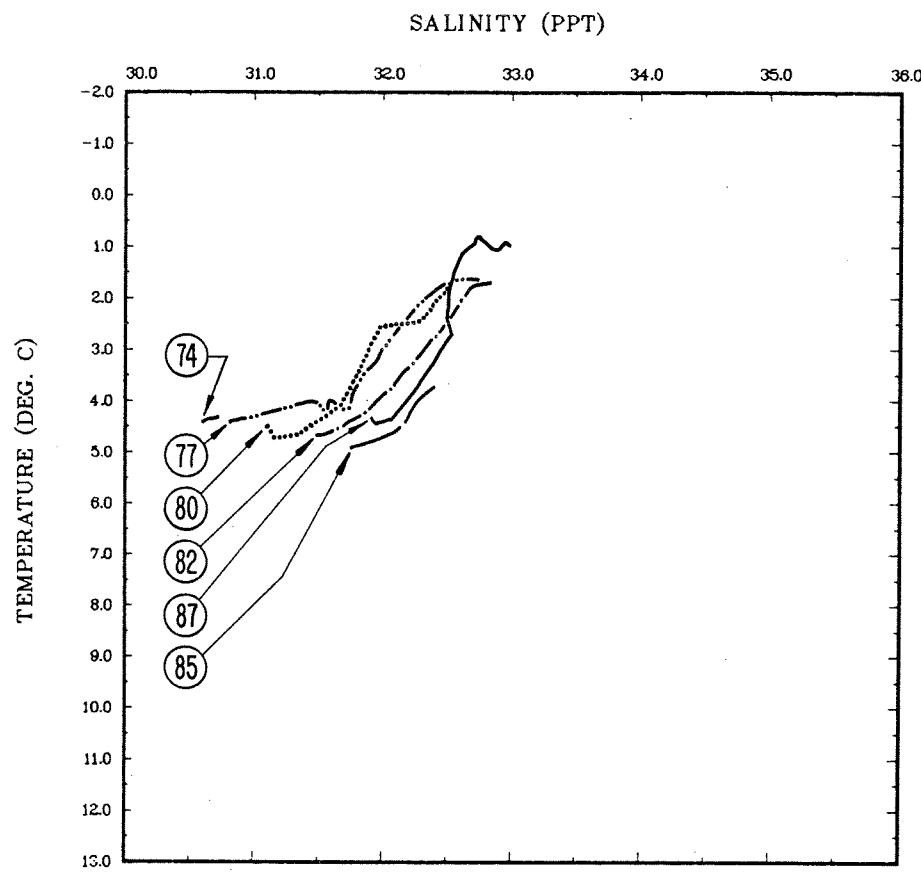
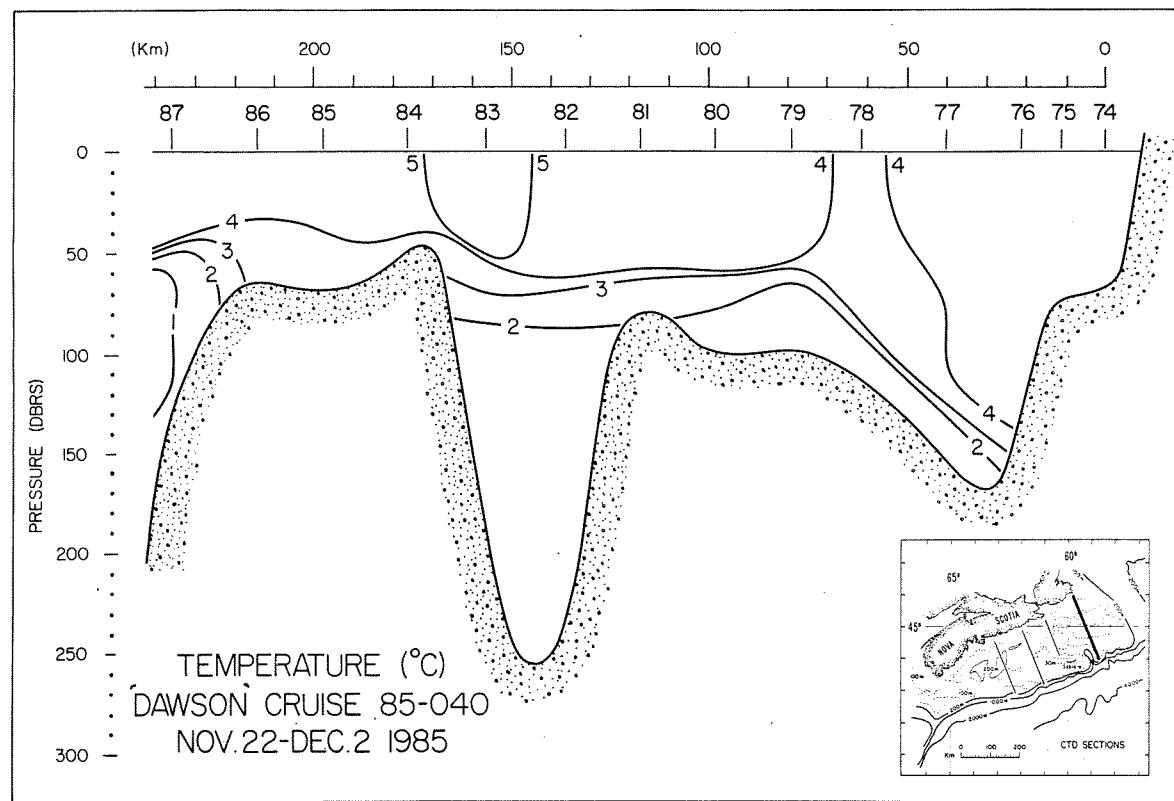












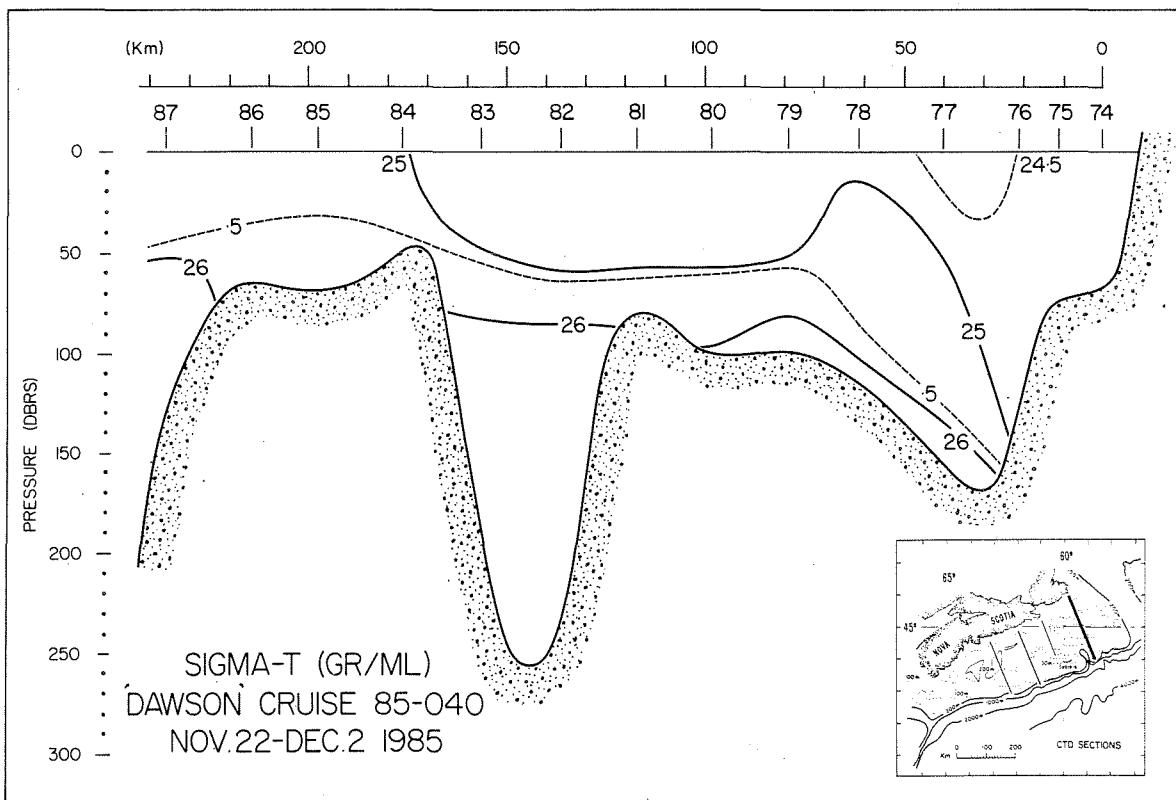
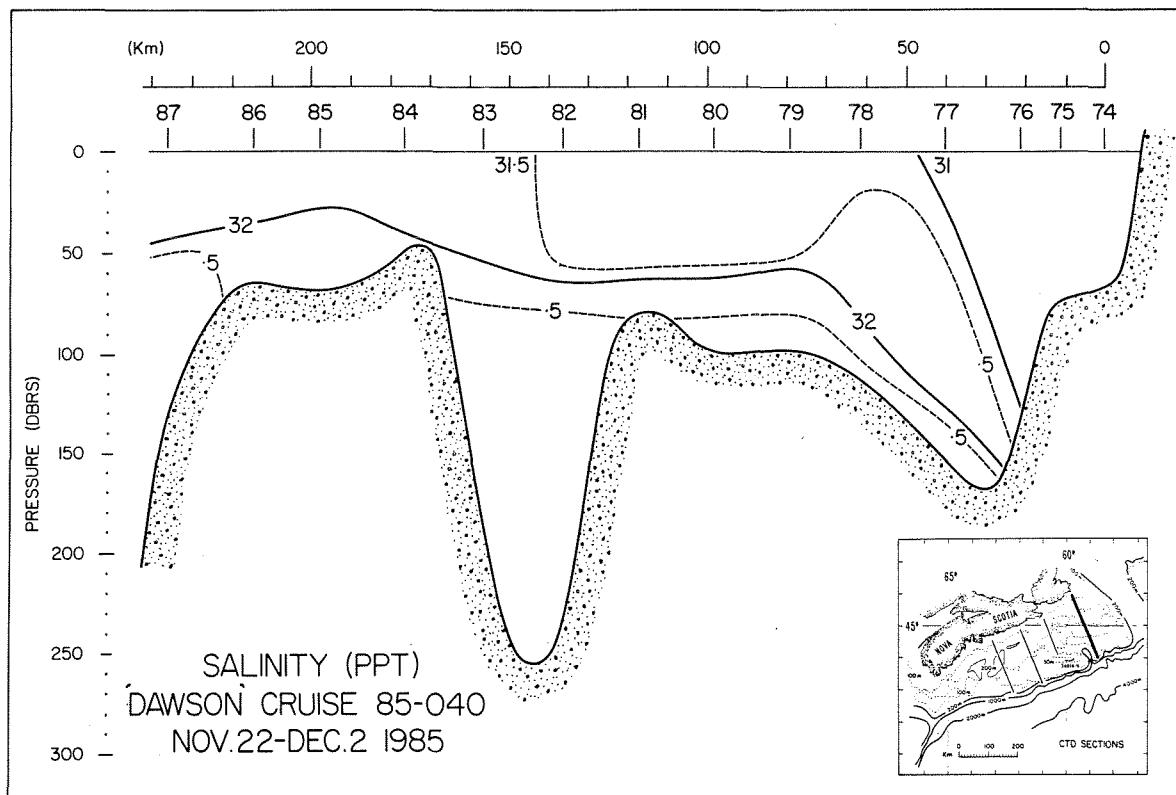


TABLE 11
CTD Station Data
Dawson 86-001, 2-10 April, 1986

<u>STN</u>	<u>N. LAT</u>	<u>W. LONG</u>	<u>TIME/ DAY</u>	<u>DEPTH</u>	<u>COMMENT</u>
1	44°21.95'	63°15.36'	1743/92	97m	Probe #3
2	44°32.51'	63°03.95'	2009/92	68m	bad data sets
3	44°26.80'	62°59.03'	2308/92	123m	bad data sets
4	44°26.85'	62°59.02'	0003/93	125m	
5	44°26.83'	62°59.04'	0103/93	131m	
6	44°26.83'	62°59.04'	0203/93	124m	
7	44°26.84'	62°59.04'	0259/93	127m	
8	44°26.85'	62°59.04'	0405/93	125m	
9	44°26.85'	62°59.04'	0504/93	125m	down and up traces not separated
10	44°26.85'	62°59.04'	0602/93	125m	
11	44°26.84'	62°59.04'	0700/93	125m	bad data sets
12	44°26.80'	62°58.97'	0803/93	128m	pressure response slow after bottle
13	44°26.79'	62°58.97'	0858/93	128m	
14	44°26.80'	62°58.97'	1000/93	128m	
15	44°26.81'	62°58.95'	1058/93	128m	
16	44°26.80'	62°58.93'	1207/93	136m	
17	44°26.79'	62°58.94'	1304/93	135m	changed to Probe CCIW #1
18	44°31.63'	62°49.97'	0144/95	107m	changed to Probe #5
19	44°35.79'	62°37.99'	0314/95	76m	
20	44°18.91'	62°52.86'	0519/95	185m	down and up trace not separated
21	44°09.46'	62°51.59'	0640/95	25m	thermometers sticking
22	44°52.23'	61°54.97'	2256/96	60m	replace thermometers
23	44°47.97'	61°51.19'	2353/96	97m	
24	44°42.01'	61°48.19'	0056/97	126m	
25	44°37.05'	61°44.96'	0153/97	154m	
26	44°30.10'	61°41.01'	0259/97	170m	
27	44°20.92'	61°36.01'	0415/97	170m	rosette arrow misaligned
28	44°12.06'	61°31.01'	0536/97	117m	
29	44°02.00'	61°26.03'	0657/97	135m	
30	43°53.05'	61°21.21'	0822/97	57m	system bombed; may be two headers
31	43°44.06'	61°15.98'	0938/97	47m	
32	43°35.00'	61°09.62'	1051/97	62m	bad data sets
33	43°25.12'	61°05.05'	1210/97	74m	bad data sets
34	43°16.04'	61°00.19'	1325/97	200m	bad data sets
35	44°09.03'	60°21.97'	2002/97	175m	bad data sets
36	44°17.95'	60°26.86'	2115/97	141m	
37	44°26.96'	60°31.72'	2223/97	44m	
38	44°35.94'	60°36.80'	2329/97	41m	
39	44°44.95'	60°41.98'	0035/98	205m	
40	44°54.00'	60°48.14'	0155/98	215m	
41	45°03.13'	60°52.94'	0320/98	195m	
42	45°07.95'	60°54.74'	0427/98	107m	
43	45°11.88'	60°57.89'	0539/98	60m	bad data sets at start
44	45°55.28'	59°44.63'	1304/98	60m	one cast total garbage
45	45°50.03'	59°43.00'	1536/98	76m	new cable termination
46	45°44.85'	59°39.85'	1706/98	135m	changed to Probe CCIW #1; bad cast
47	45°36.18'	59°34.94'	1901/98	167m	

Table 11 (Cont'd)

<u>STN</u>	<u>N. LAT</u>	<u>W. LONG</u>	<u>TIME/ DAY</u>	<u>DEPTH</u>	<u>COMMENT</u>
48	43°49.99'	62°39.77'	0901/99	200m	bad data sets
49	43°43.14'	62°35.96'	1017/99	136m	bad data sets
50	43°34.19'	62°30.87'	1137/99	77m	
51	43°26.05'	62°25.90'	1313/99	85m	
52	43°16.02'	62°21.02'	1501/99	97m	
53	42°57.90'	62°11.47'	1824/99	155m	
54	42°53.06'	62°08.03'	1929/99	595m	bad data sets
55	43°07.00'	62°15.99'	2122/99	105m	bad data sets
56	43°56.99'	62°44.07'	0231/100	225m	
57	44°08.97'	62°51.00'	0428/100	220m	bad data sets
58	44°18.96'	62°56.93'	0612/100	175m	bad data sets
59	44°26.89'	63°00.07'	0741/100	96 m	bad data sets
60	44°31.97'	63°03.96'	0911/100	60	

TABLE 12**Shipboard CTD Calibrations****Dawson 86-001, 2-10 April 1986**

<u>Salinity</u>	<u>No. of Samples</u>	<u>Mean Difference (CTD-Ship)</u>	<u>Std Deviation</u>	<u>Probe</u>
Stns 1-16	32	.065‰	.012‰	BIO #3
18-46	59	.038‰	.018‰	BIO #5
47-60	44	-.066‰	.007‰	CCIW #1
<u>Temperature</u>				
1-16	T1	16	.014°C	.033°C
	T2	16	.014°C	.034°C
18-46	T1	20	.003°C	.032°C
	T2	20	-.003°C	.029°C
47-60	T1	7	.082°C	.010°C
	T2	7	.074°C	.009°C

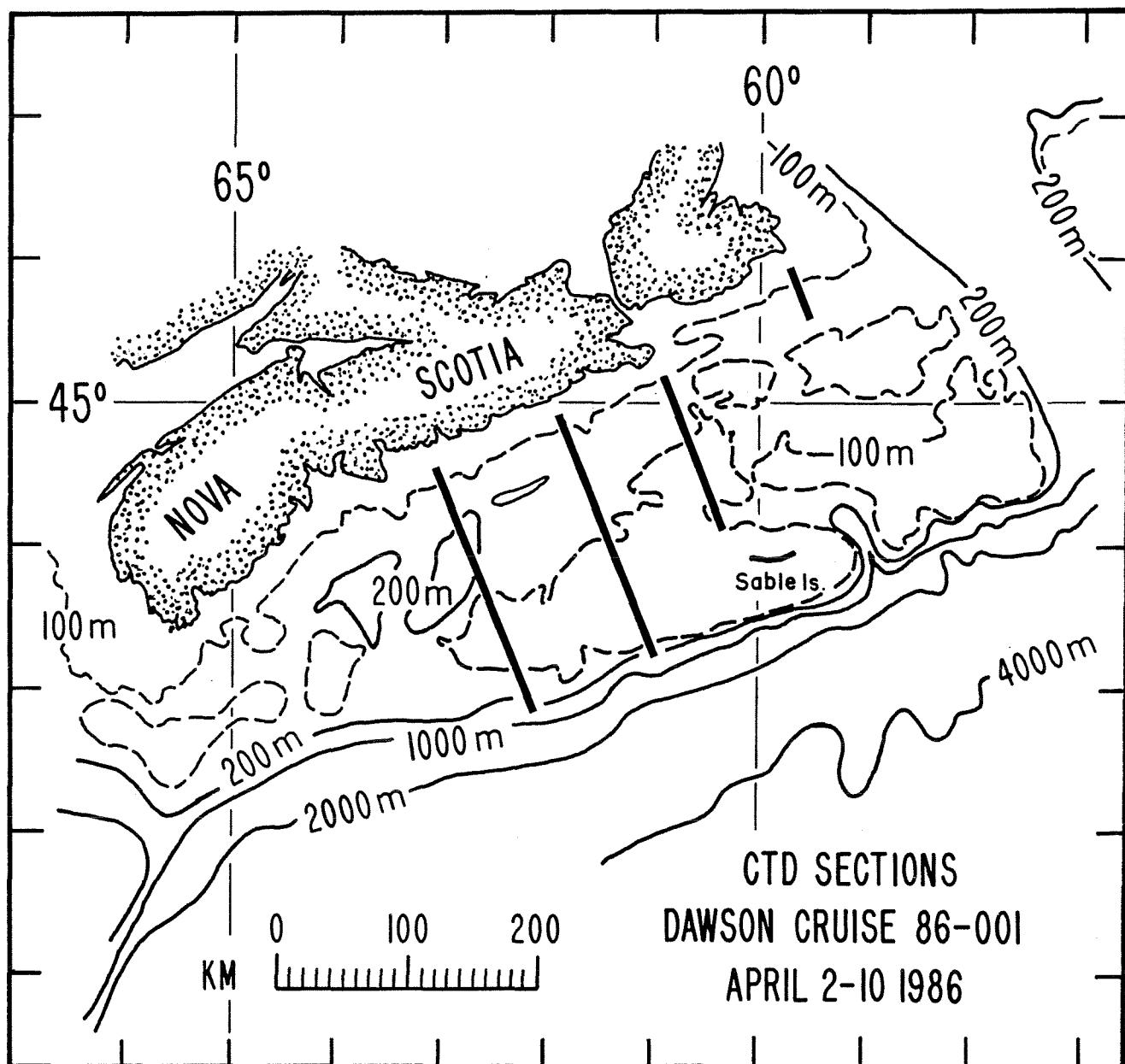
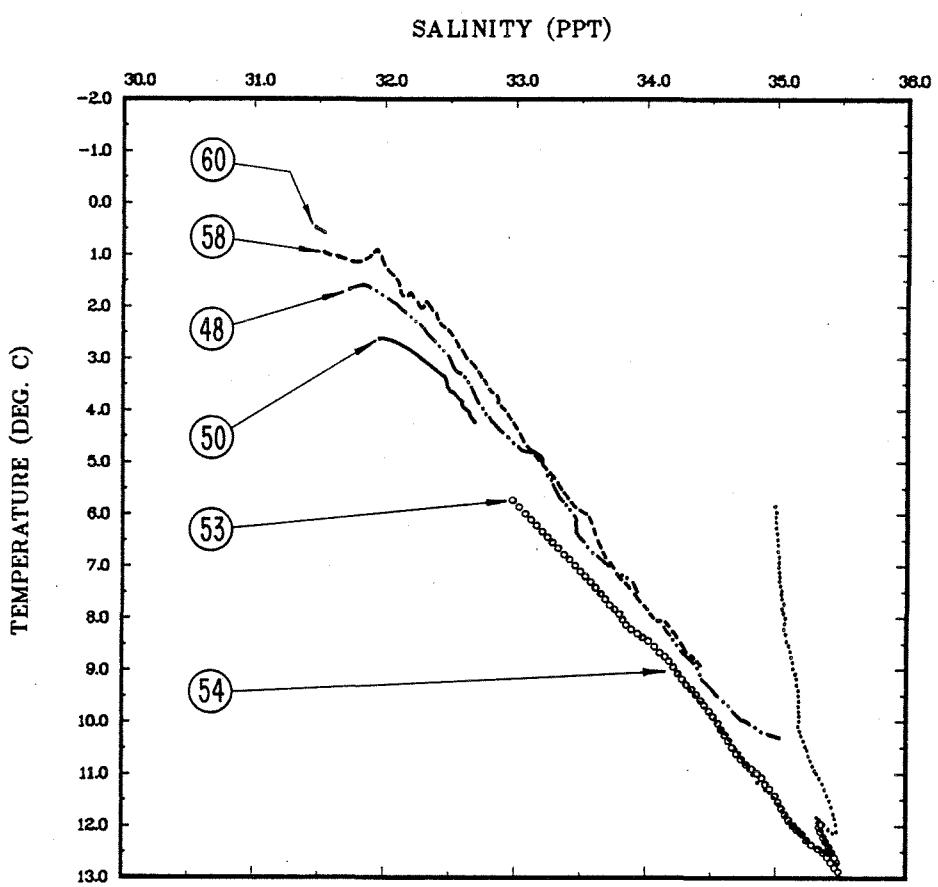
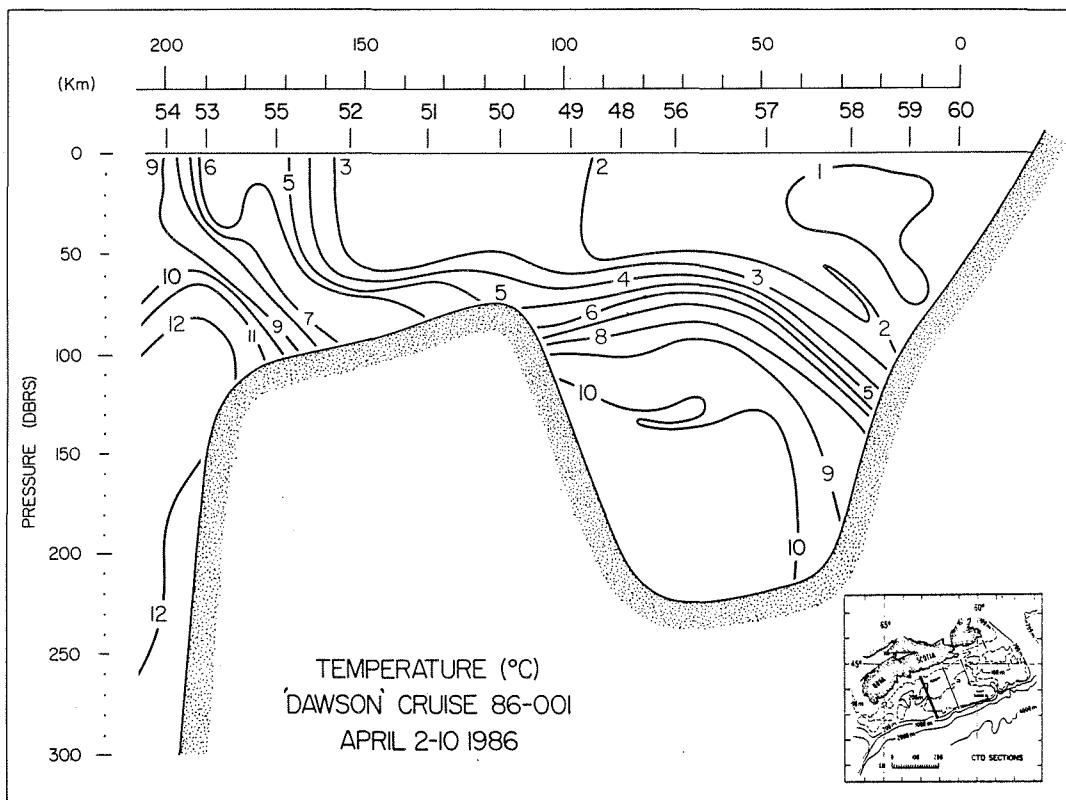
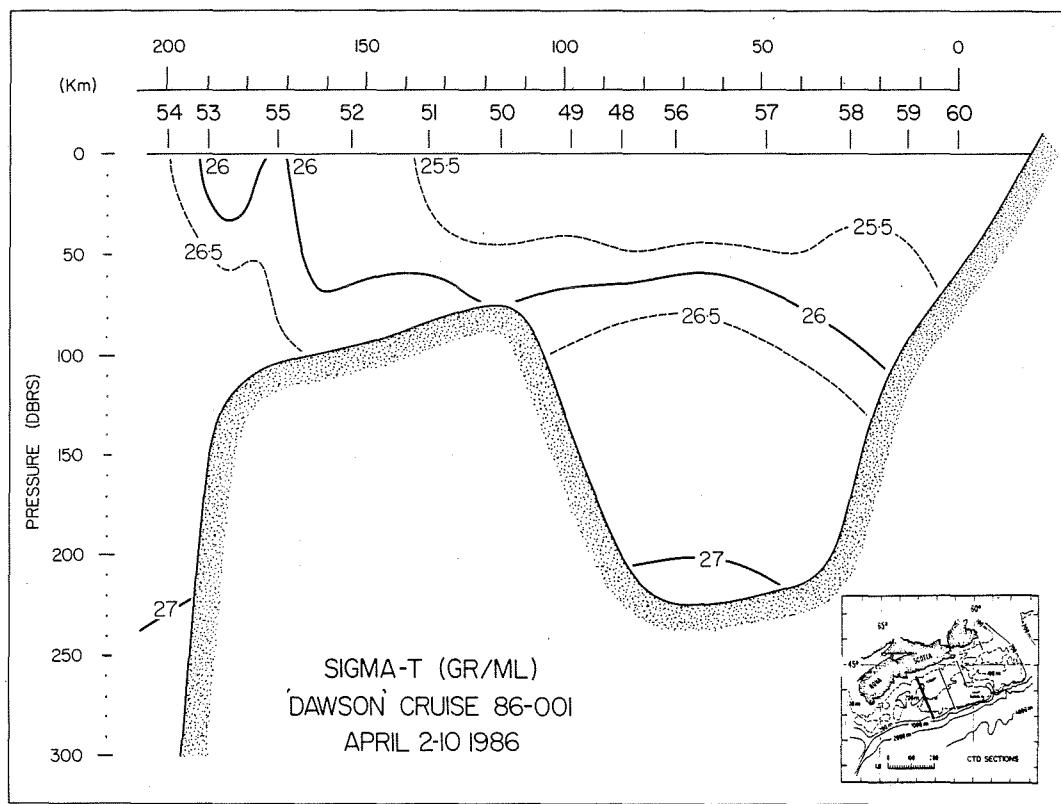
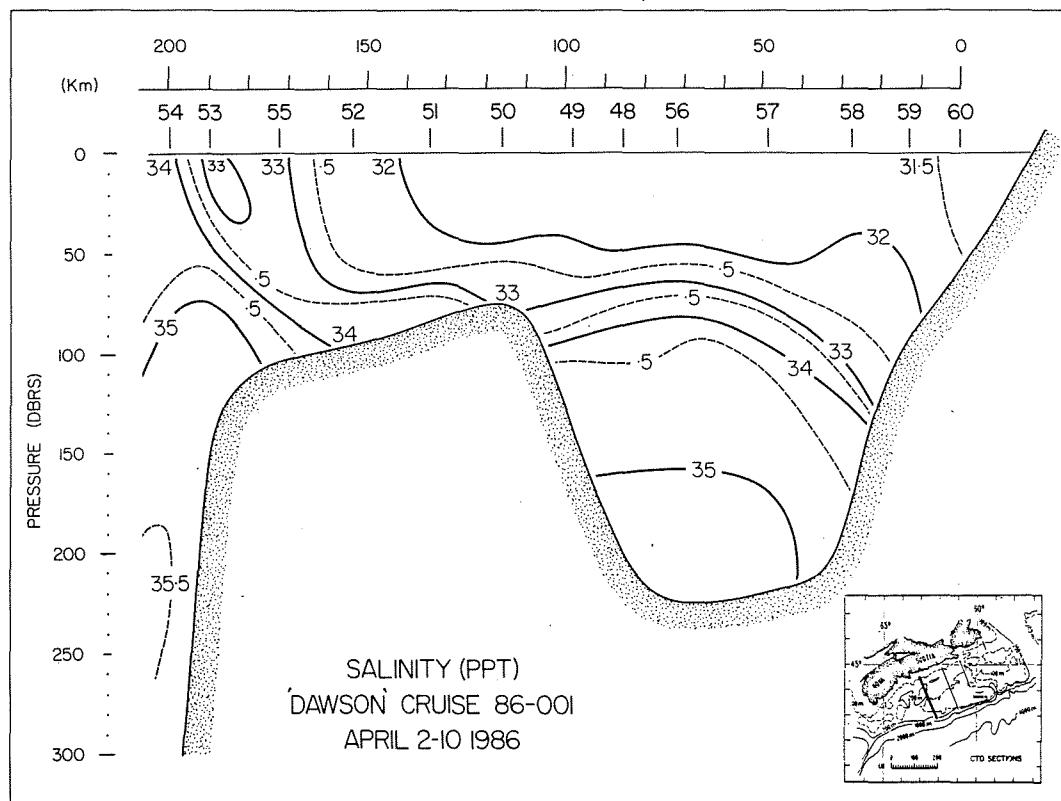
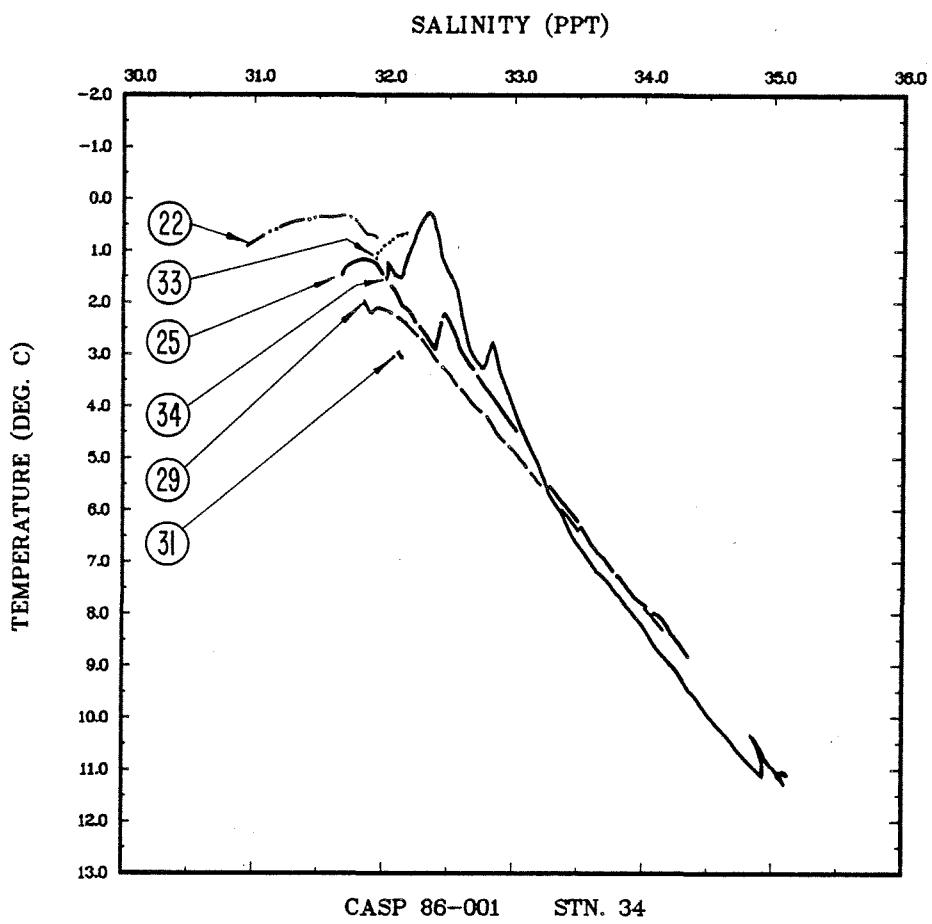
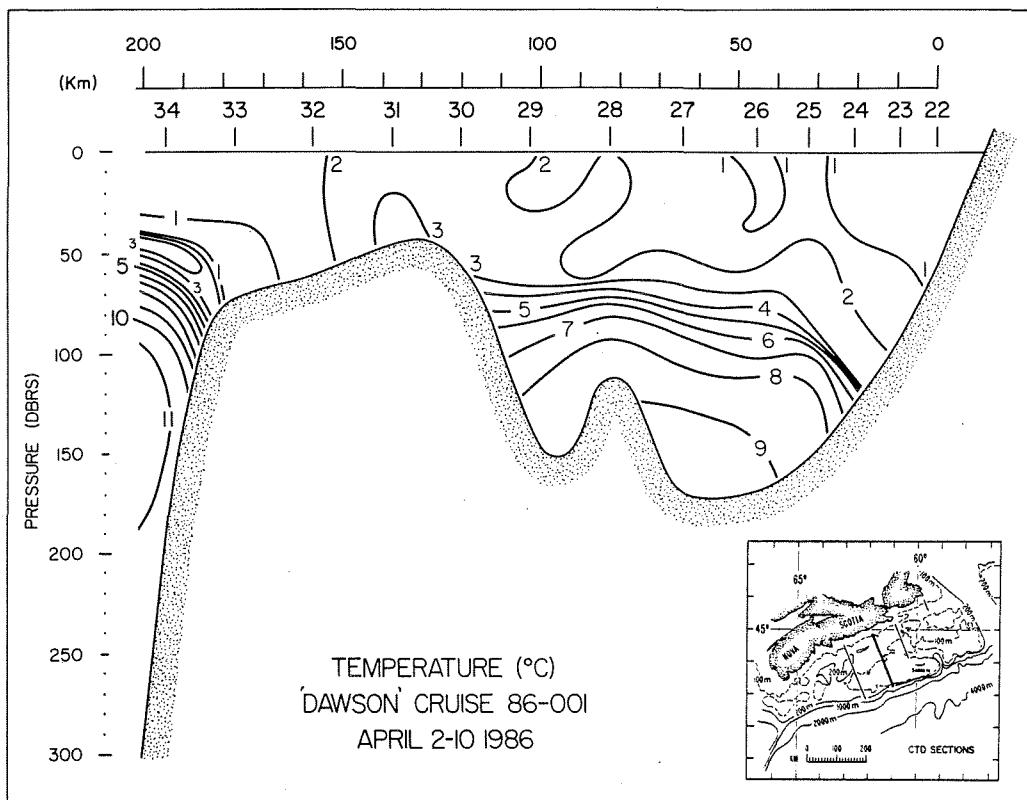
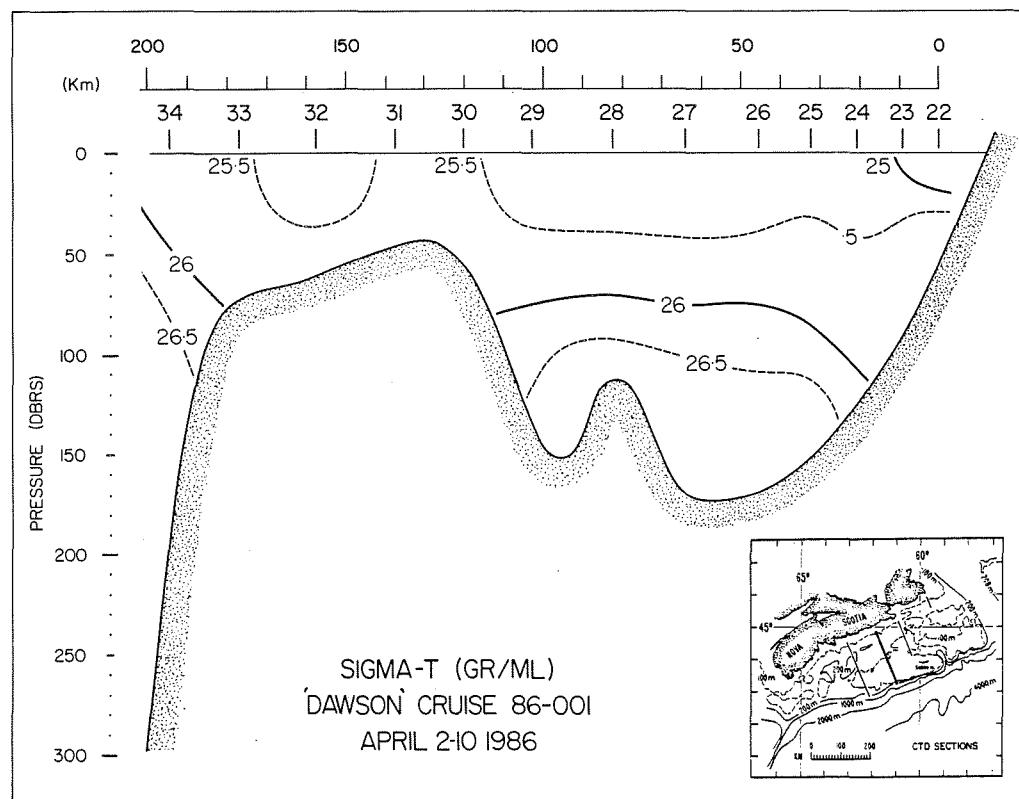
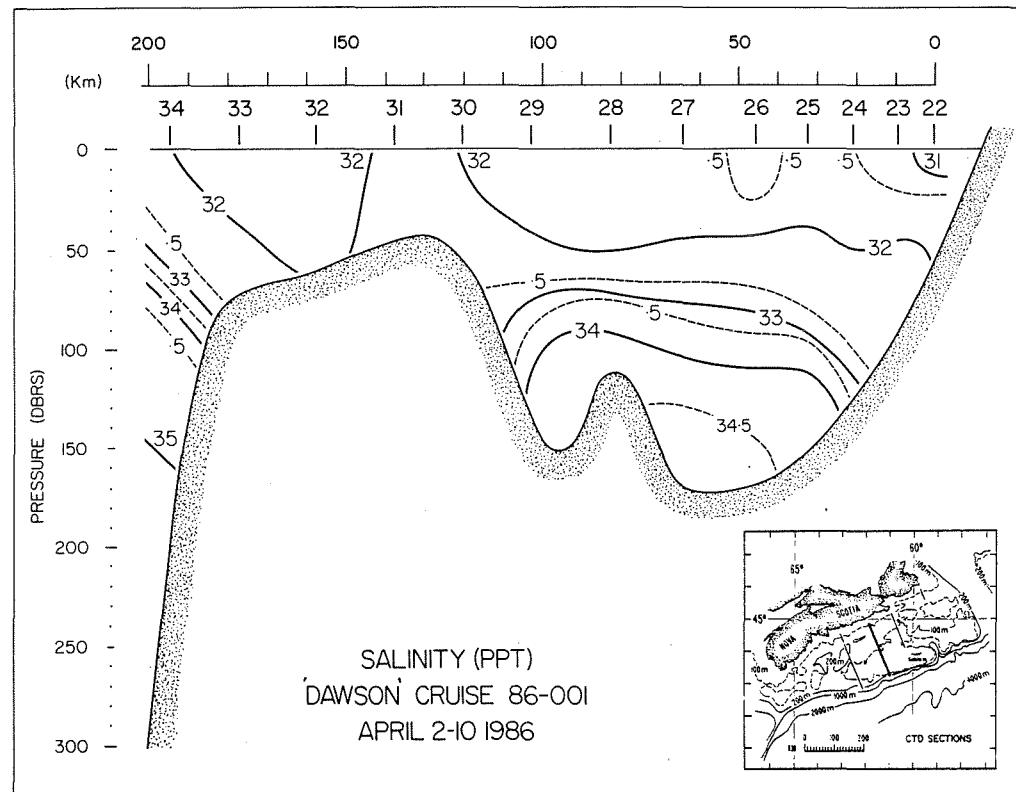


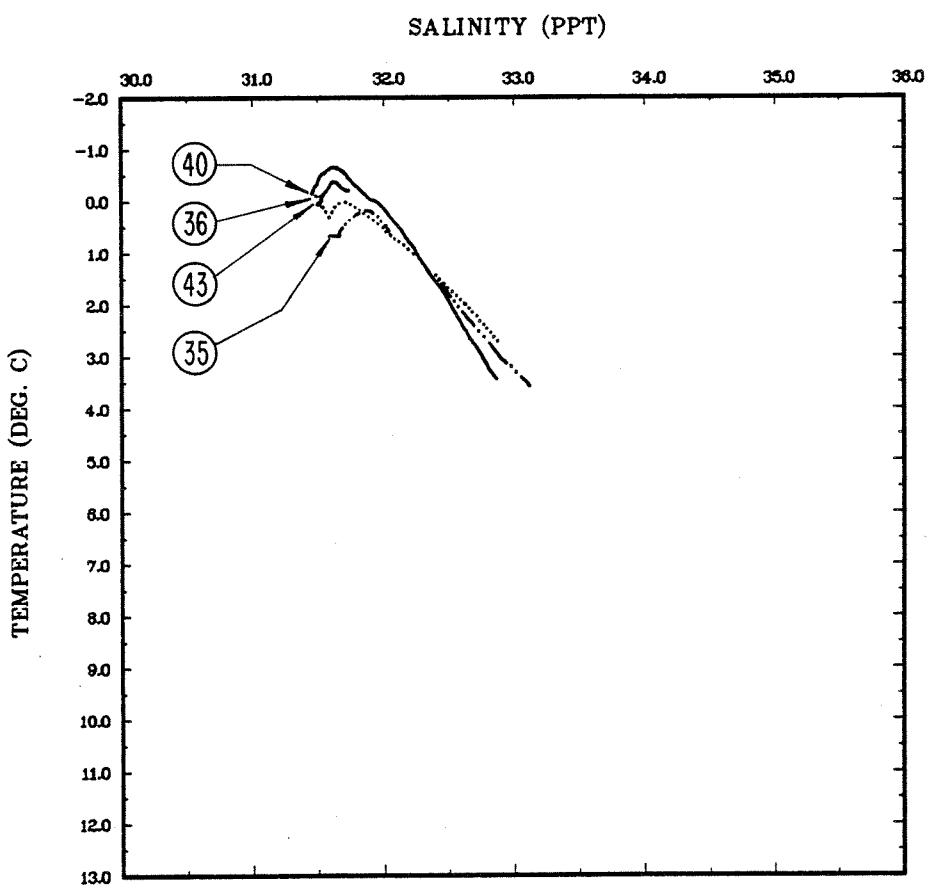
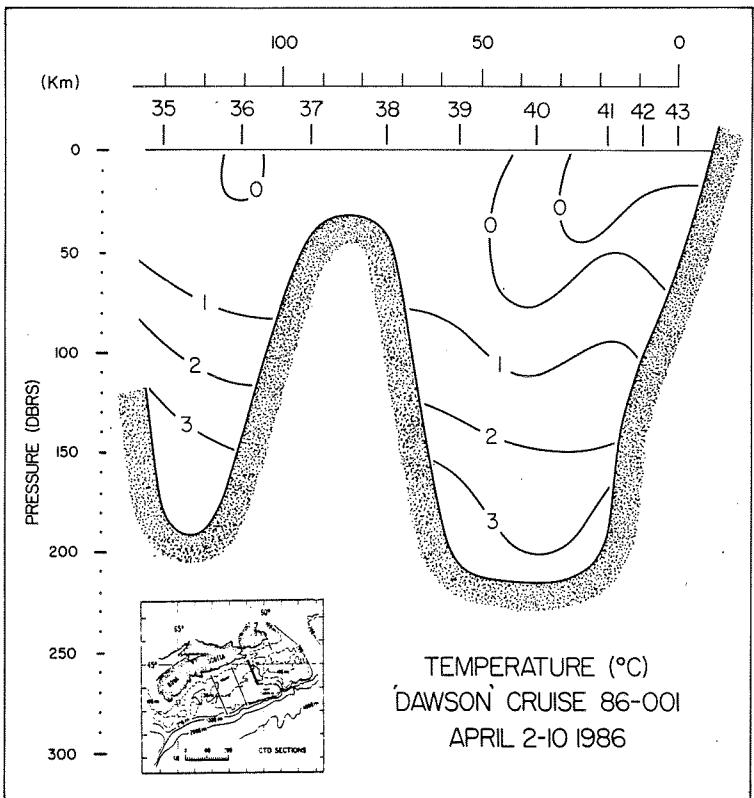
Figure 12 CASP CTD Sections for Cruise 86-001

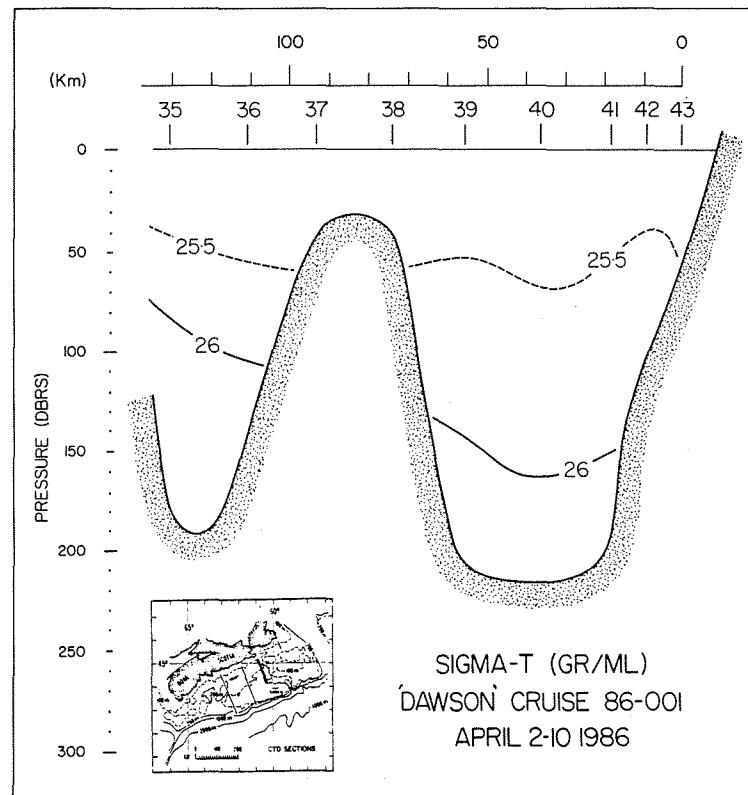
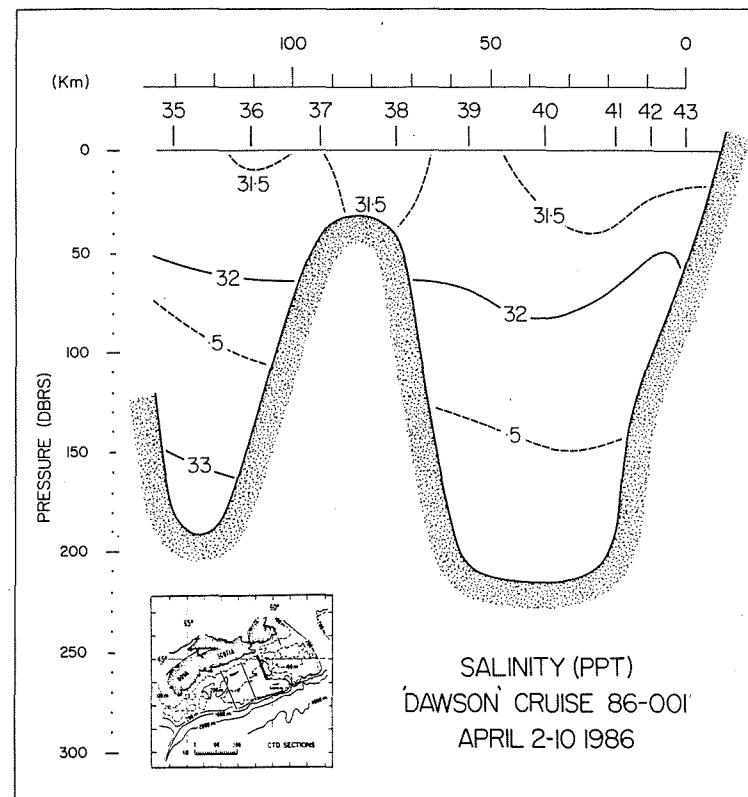


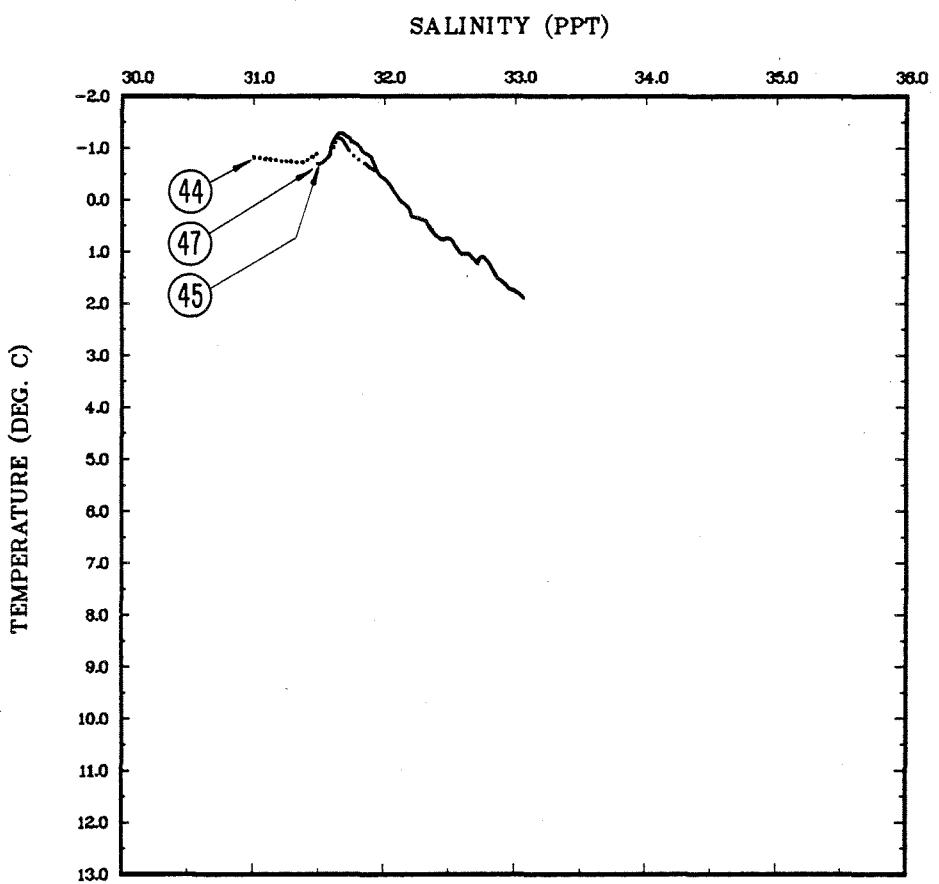
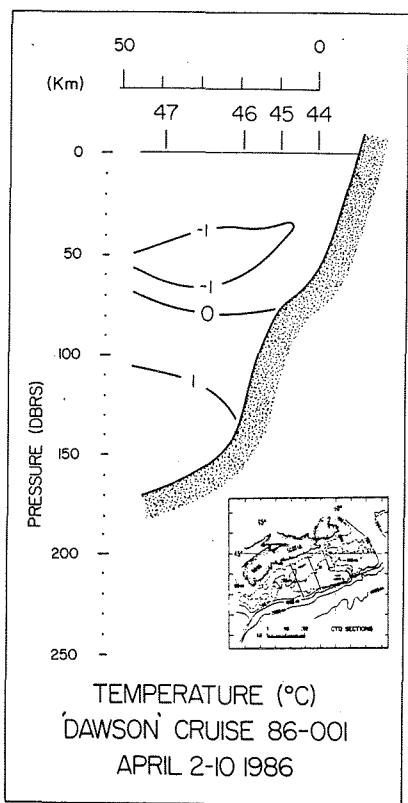


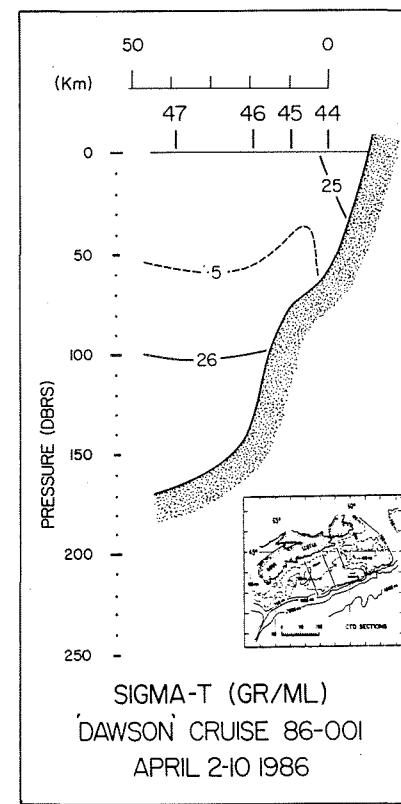
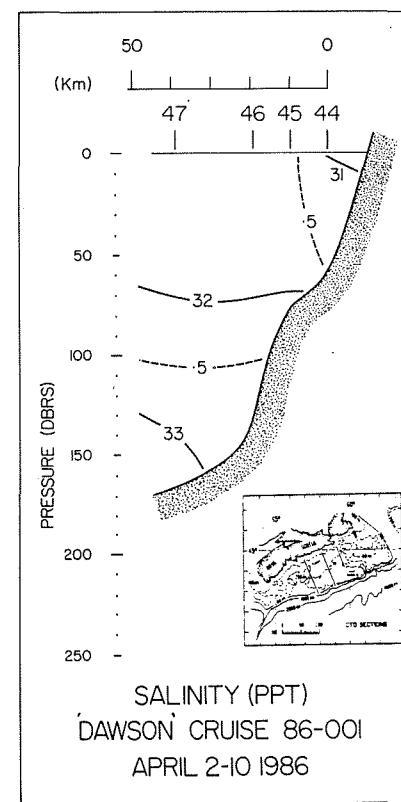












MOORING 748
DEPTH (M) 0

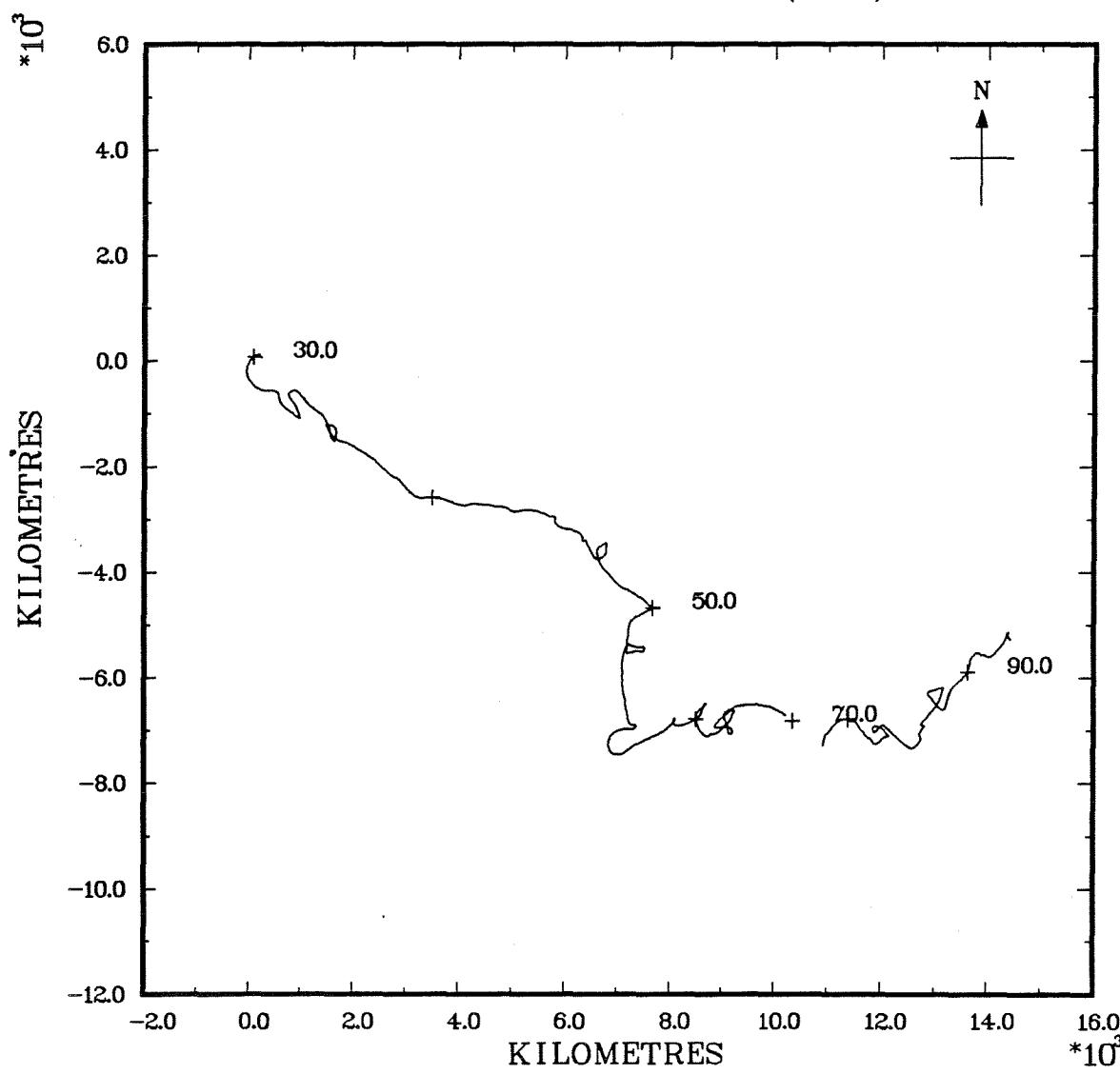
INSTRUMENT TYPE MINIMET
SERIAL NUMBER 504
LATITUDE 44 27.60 N
LONGITUDE 63 .00 W
WATER DEPTH (M) 0
MOORING DATE ; CRUISE 29/01/1986 ; 86-005
DURATION (DAYS) 63.72
SAMPLE INTERVAL 10 MINUTES

SENSOR(UNITS)	MEAN	MINIMUM	MAXIMUM	STD DEV.	SAMPLES
RATE(M/S)	6.886	.000	18.200	3.277	9175
U (WIND) (M/S)	3.067	-17.420	13.811	4.830	9175
V (WIND) (M/S)	-1.049	-14.940	15.988	5.223	9175
TEMPERATURE(DEG.C.)	-1.016	-1.880	.250	.663	9175
AIR TEMP(DEG.C.)	-9.654	-34.870	4.450	7.483	9175
DIRECTION(DEG)	131.683	.280	358.870	83.421	9175
U (STRESS) (PASCALS)	.067	-1.133	.942	.140	9175
V (STRESS) (PASCALS)	-.028	-.740	.885	.140	9175

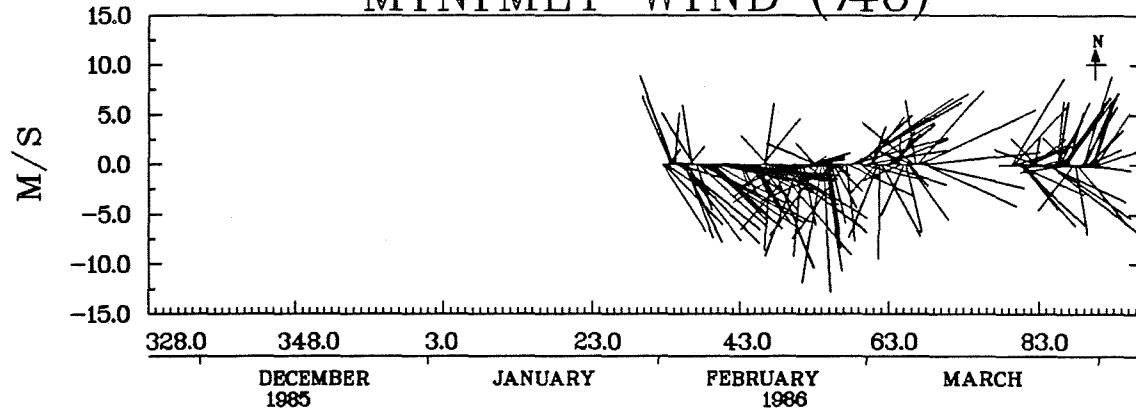
COMMENTS

WIND DIR. IS THE DIR. THE WIND IS BLOWING TO: DO TO ICE BUILD UP ON THE ANEMOMETER THE DIR. AND RATE ARE BAD FROM DAY 68 TO 79 1986: THE DIR. DATA WERE CORRECTED BY 25 DEG. TO COMPENSATE FOR A SUSPECTED INST. ERROR: WIND SPEED WAS ADJUSTED FROM 2 TO 10 METERS BEFORE THE STRESS WAS CALCULATED: AIR TEMP. WAS SPIKY DO TO BAD CONNECTORS.

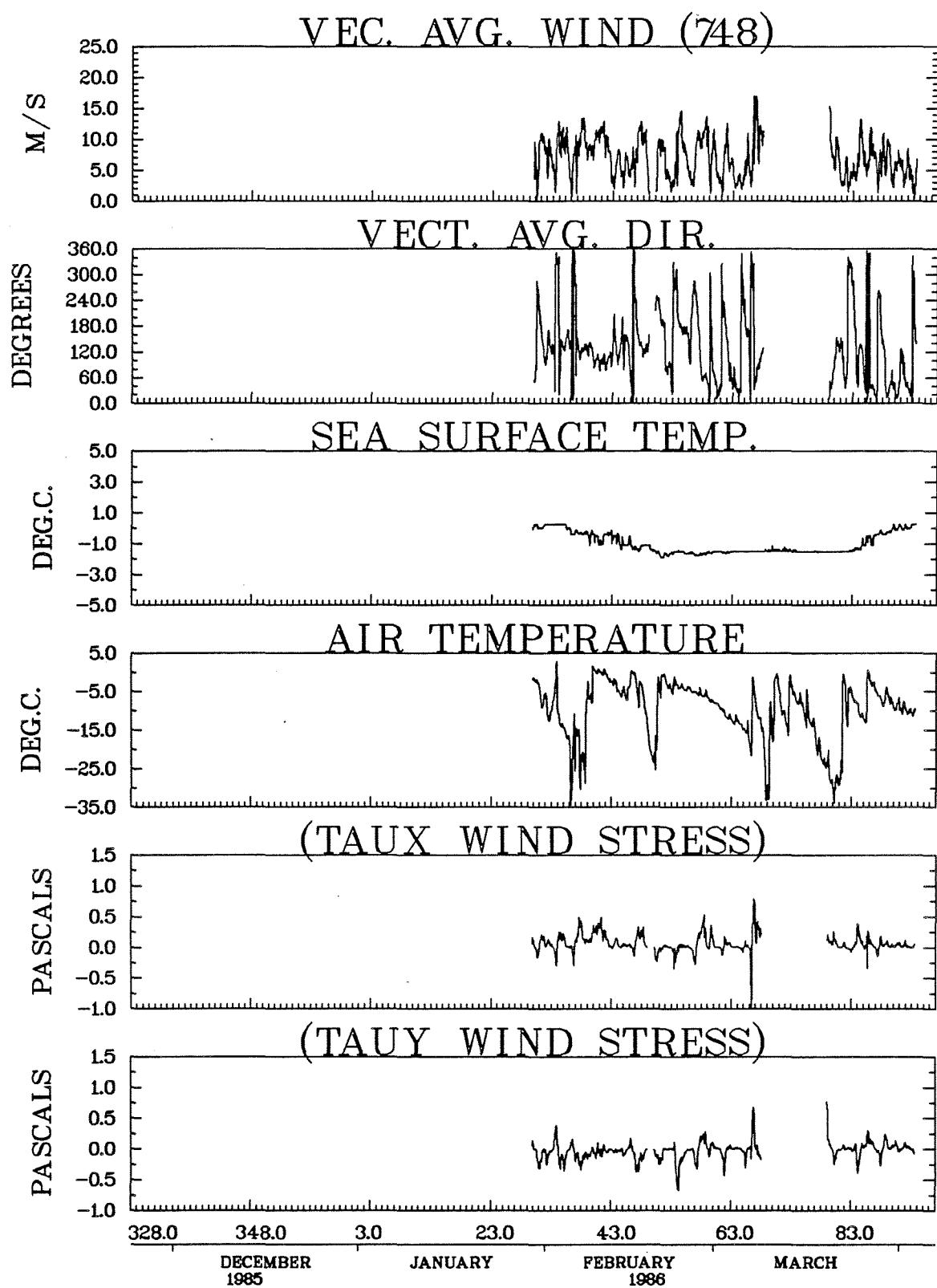
MINIMET WIND (748)



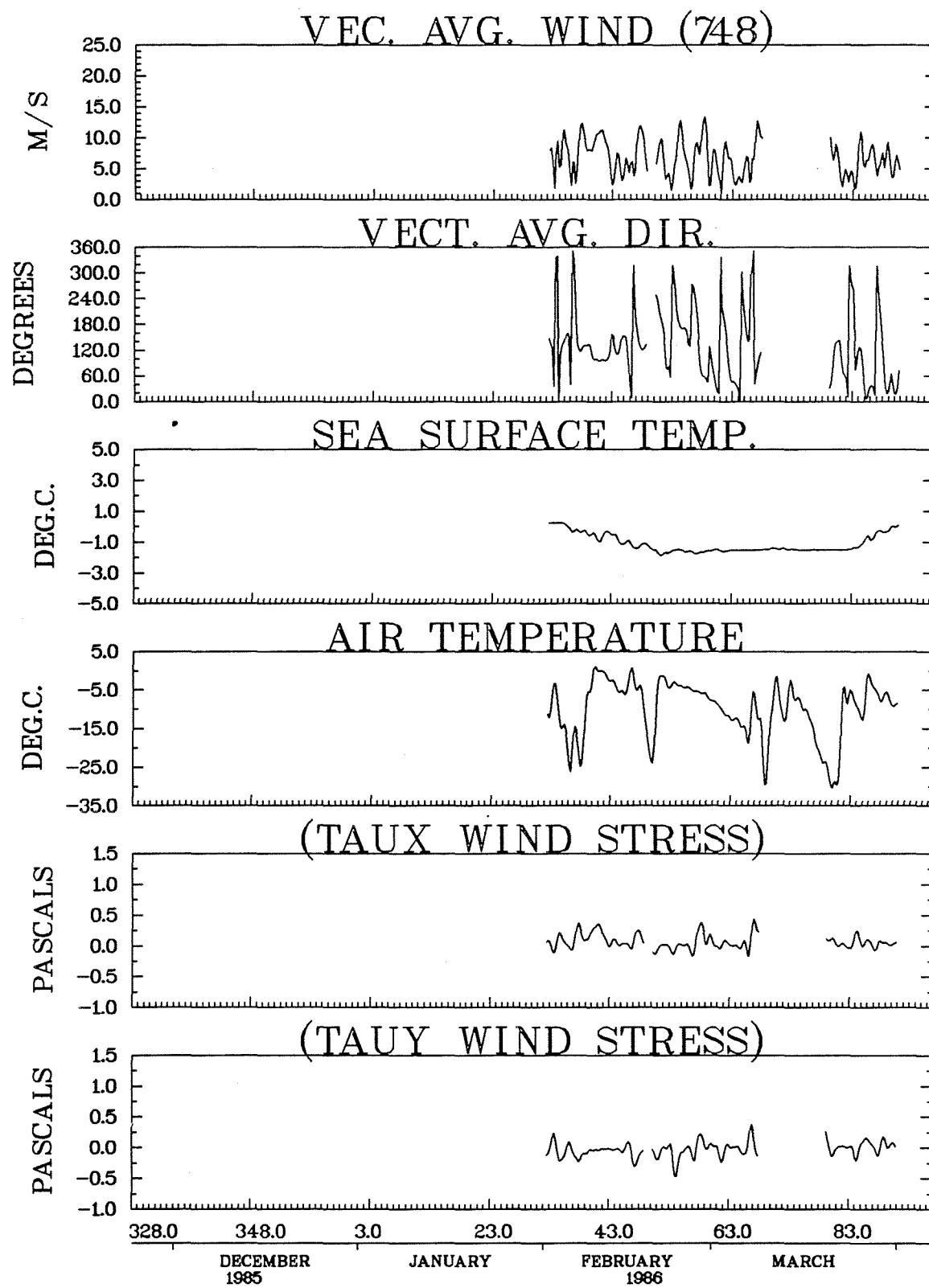
MINIMET WIND (748)



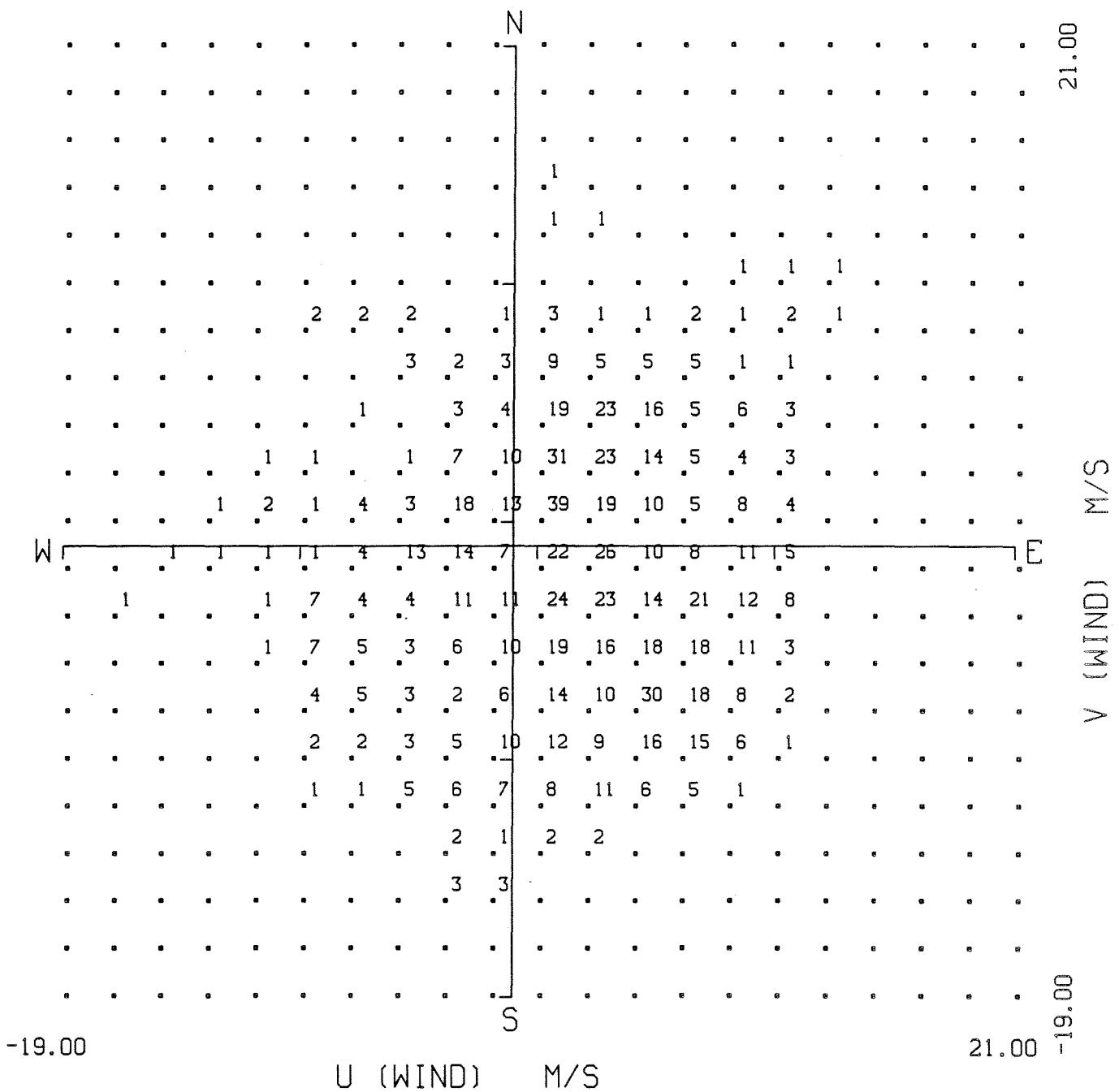
CASP S2 JAN. 29 1986 – APR. 3 1986



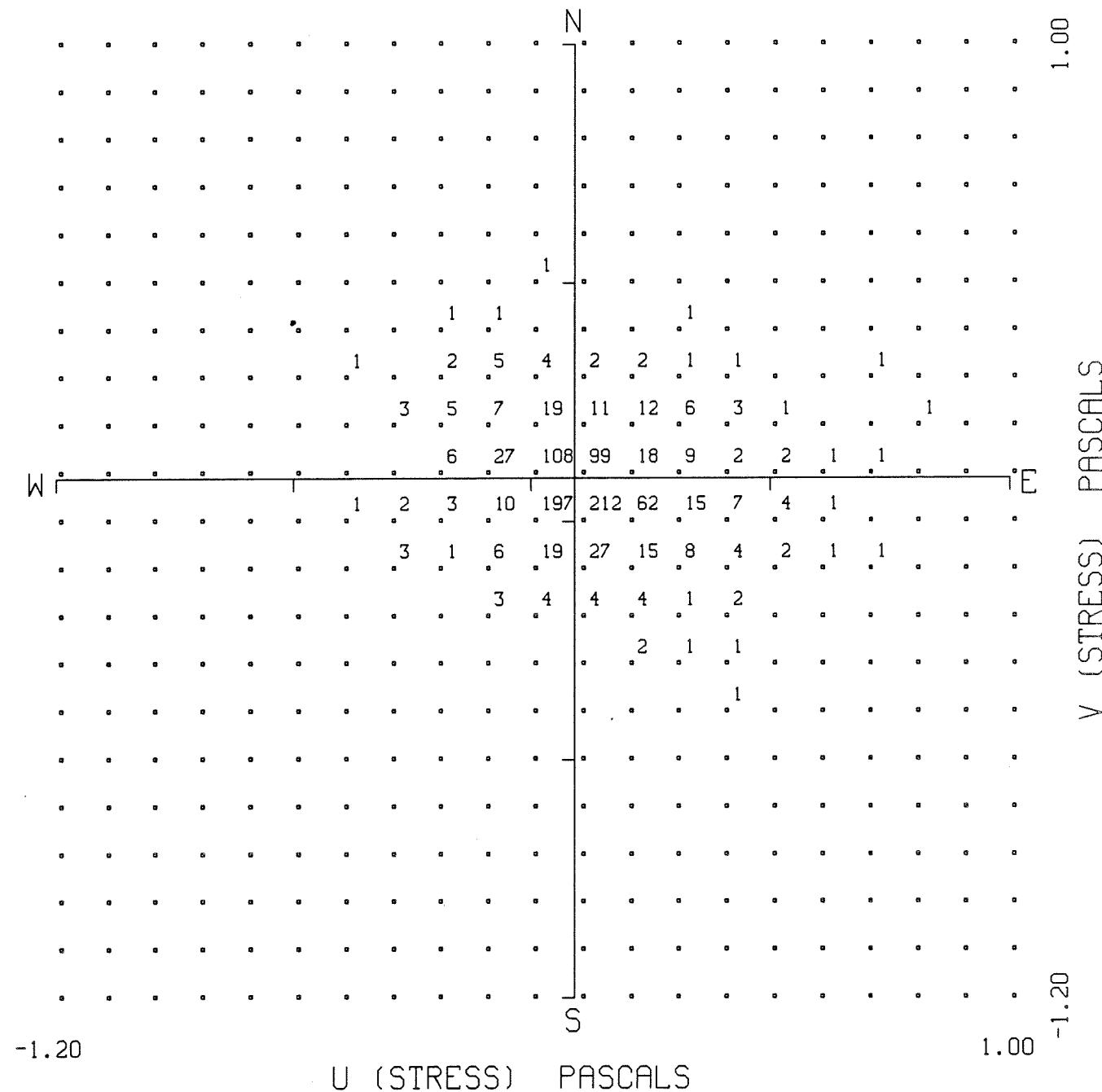
CASP S2 JAN. 29 1986 – APR. 3 1986



CASP S2 JAN. 29 1986 – APR. 3 1986



FREQUENCY DISTRIBUTION PLOT
MINIMET 748 AT S2
START TIME 29/ 1/1986 19:59: .0 GMT
FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT
MINIMET 748 AT S2
START TIME 1/11/1985 4: 0: .0 GMT
FREQUENCY UNIT 0.1%

HISTOGRAM OF SEA SURFACE TEMP., DEG.C.

BAND	NUMBER	PER	
.GE.	.LT.	IN BAND	CENT

-2.00	-1.90	0	0.0
-1.90	-1.80	89	1.0 ***
-1.80	-1.70	290	3.2 *****
-1.70	-1.60	692	7.5 *****
-1.60	-1.50	0	0.0
-1.50	-1.40	3430	37.4 *****
-1.40	-1.30	632	6.9 *****
-1.30	-1.20	166	1.8 ****
-1.20	-1.10	626	6.8 *****
-1.10	-1.00	0	0.0
-1.00	-.90	113	1.2 ****
-.90	-.80	69	.8 **
-.80	-.70	45	.5 **
-.70	-.60	33	.4 *
-.60	-.50	0	0.0
-.50	-.40	382	4.2 *****
-.40	-.30	688	7.5 *****
-.30	-.20	310	3.4 *****
-.20	-.10	281	3.1 *****
-.10	.00	0	0.0
.00	.10	415	4.5 *****
.10	.20	145	1.6 ****
.20	.30	769	8.4 *****
.30	.40	0	0.0
.40	.50	0	0.0
.50	.60	0	0.0
.60	.70	0	0.0
.70	.80	0	0.0
.80	.90	0	0.0
.90	1.00	0	0.0

396

TOTAL NO. OF SAMPLES 9175

OUTSIDE RANGE 0

HISTOGRAM OF AIR TEMPERATURE DEG.C.

BAND .GE.	NUMBER .LT.	PER IN BAND	CENT
--------------	----------------	----------------	------

-35.00	-34.00	25	.3	****
-34.00	-33.00	20	.2	***
-33.00	-32.00	31	.3	*****
-32.00	-31.00	23	.3	****
-31.00	-30.00	63	.7	*****
-30.00	-29.00	57	.6	*****
-29.00	-28.00	109	1.2	*****
-28.00	-27.00	71	.8	*****
-27.00	-26.00	62	.7	*****
-26.00	-25.00	30	.3	****
-25.00	-24.00	90	1.0	*****
-24.00	-23.00	162	1.8	*****
-23.00	-22.00	103	1.1	*****
-22.00	-21.00	124	1.4	*****
-21.00	-20.00	145	1.6	*****
-20.00	-19.00	42	.5	****
-19.00	-18.00	92	1.0	*****
-18.00	-17.00	108	1.2	*****
-17.00	-16.00	125	1.4	*****
-16.00	-15.00	193	2.1	*****
-15.00	-14.00	289	3.1	*****
-14.00	-13.00	290	3.2	*****
-13.00	-12.00	400	4.4	*****
-12.00	-11.00	462	5.0	*****
-11.00	-10.00	496	5.4	*****
-10.00	-9.00	470	5.1	*****
-9.00	-8.00	507	5.5	*****
-8.00	-7.00	635	6.9	*****
-7.00	-6.00	465	5.1	*****
-6.00	-5.00	651	7.1	*****
-5.00	-4.00	681	7.4	*****
-4.00	-3.00	578	6.3	*****
-3.00	-2.00	596	6.5	*****
-2.00	-1.00	319	3.5	*****
-1.00	0.00	318	3.5	*****
0.00	1.00	302	3.3	*****
1.00	2.00	29	.3	***
2.00	3.00	9	.1	**
3.00	4.00	2	.0	*
4.00	5.00	1	.0	*

TOTAL NO. OF SAMPLES 9175
 OUTSIDE RANGE 0

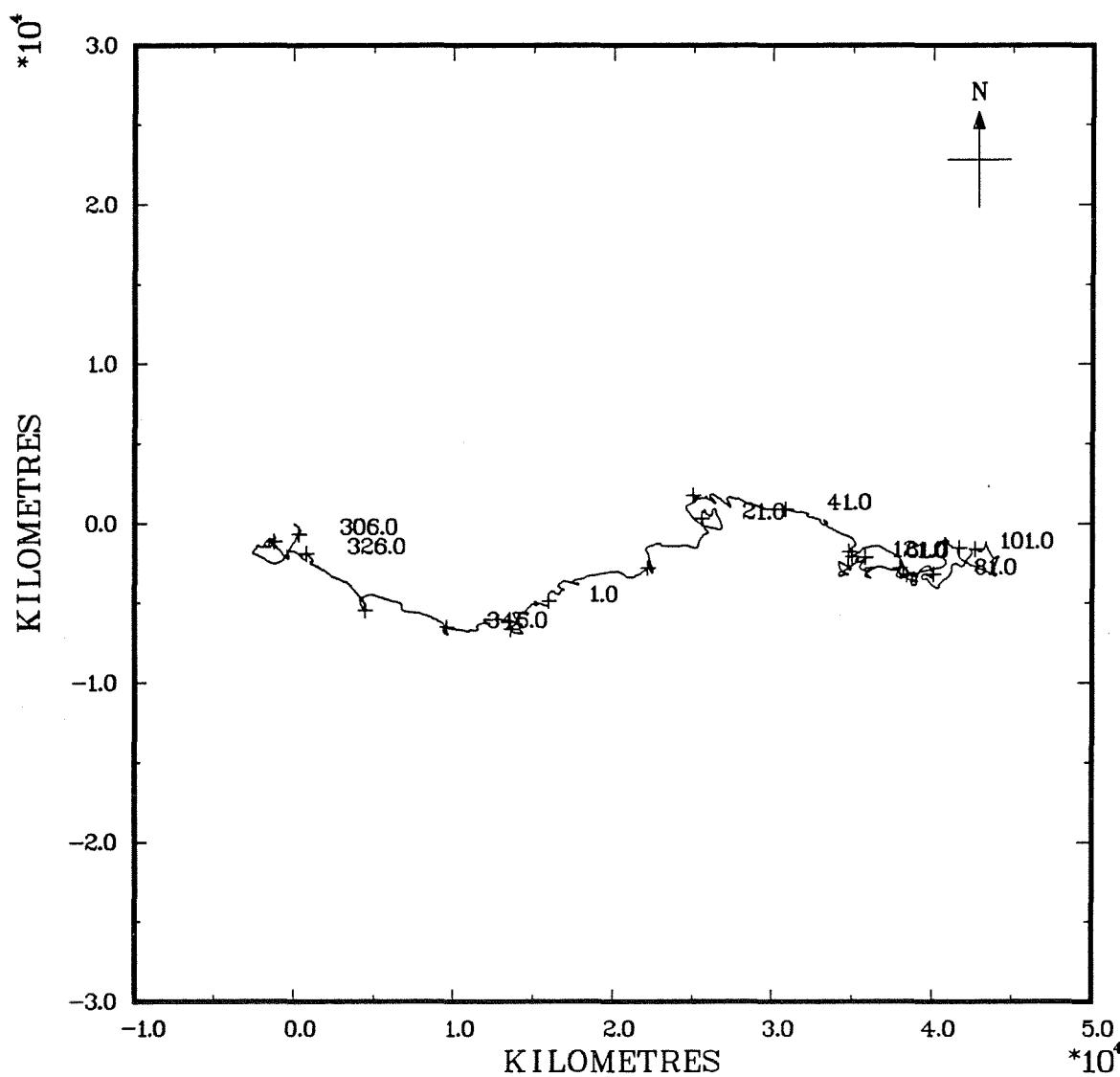
MOORING 749
DEPTH (M) 0

INSTRUMENT TYPE	MINIMET
SERIAL NUMBER	508
LATITUDE	42 57.67 N
LONGITUDE	62 10.81 W
WATER DEPTH (M)	175
MOORING DATE ; CRUISE	27/11/1985 ; 85-040
DURATION (DAYS)	0.0
SAMPLE INTERVAL	10 MINUTES

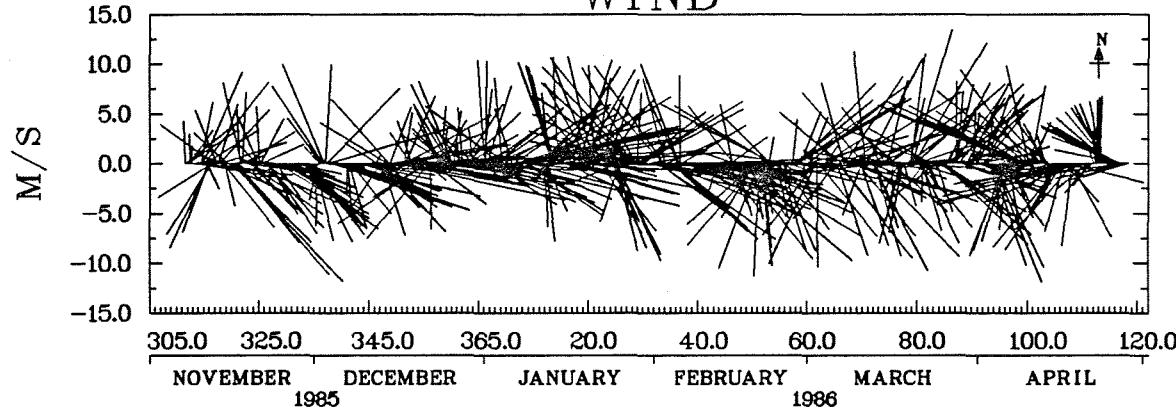
COMMENTS

MINIMET BUOY MALFUNCTIONED (ELECTRONIC PROBLEMS).
NO DATA AVAILABLE.

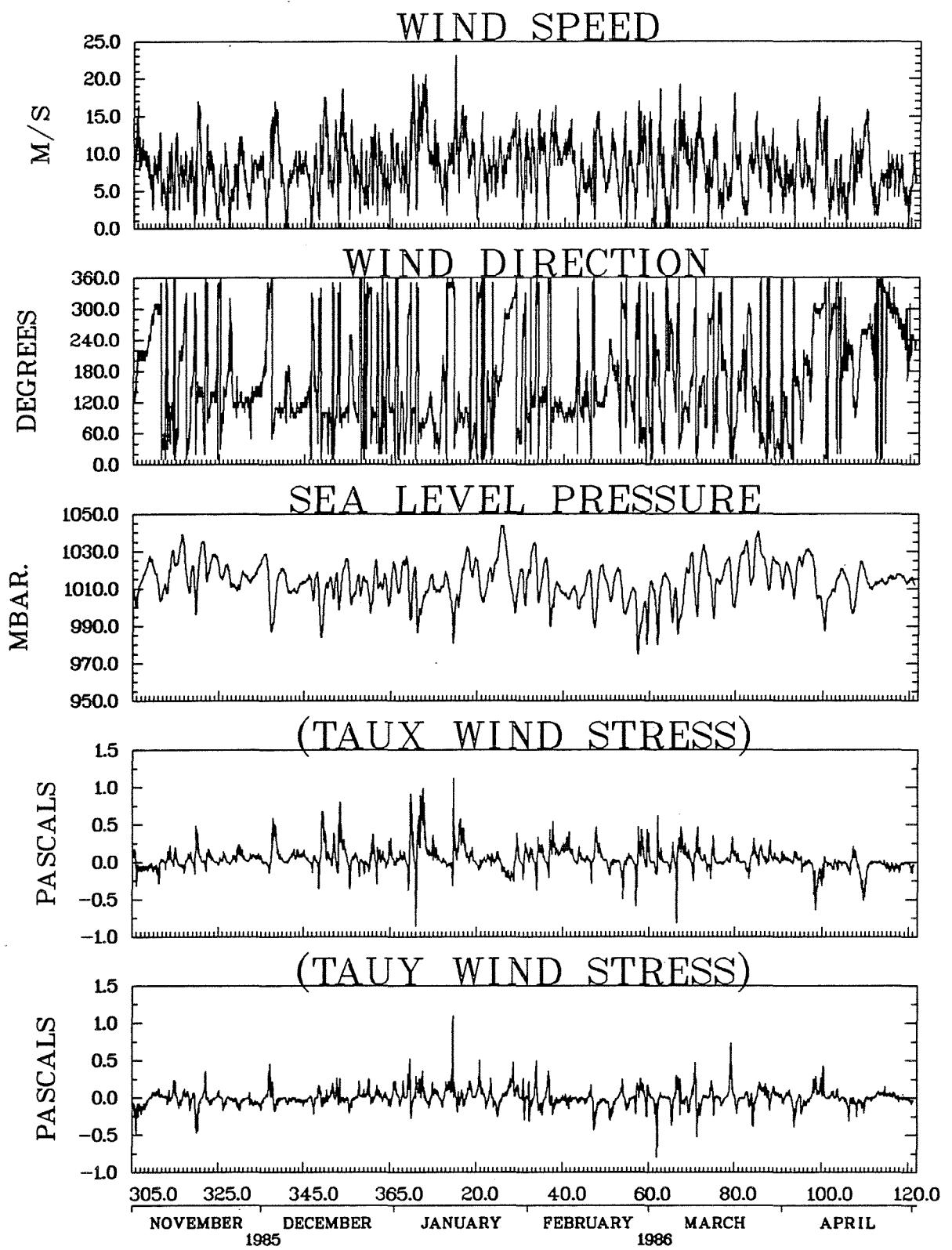
WIND



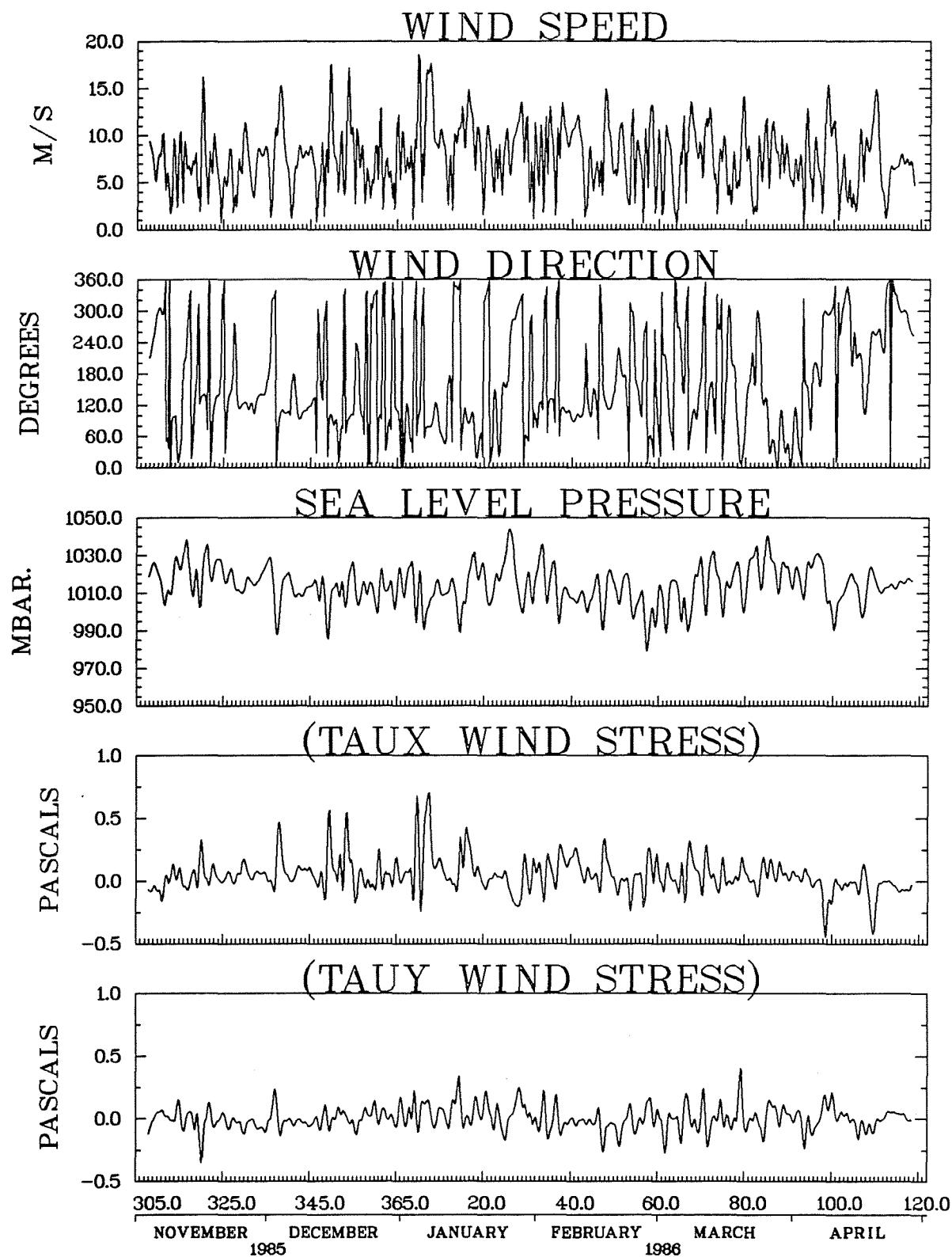
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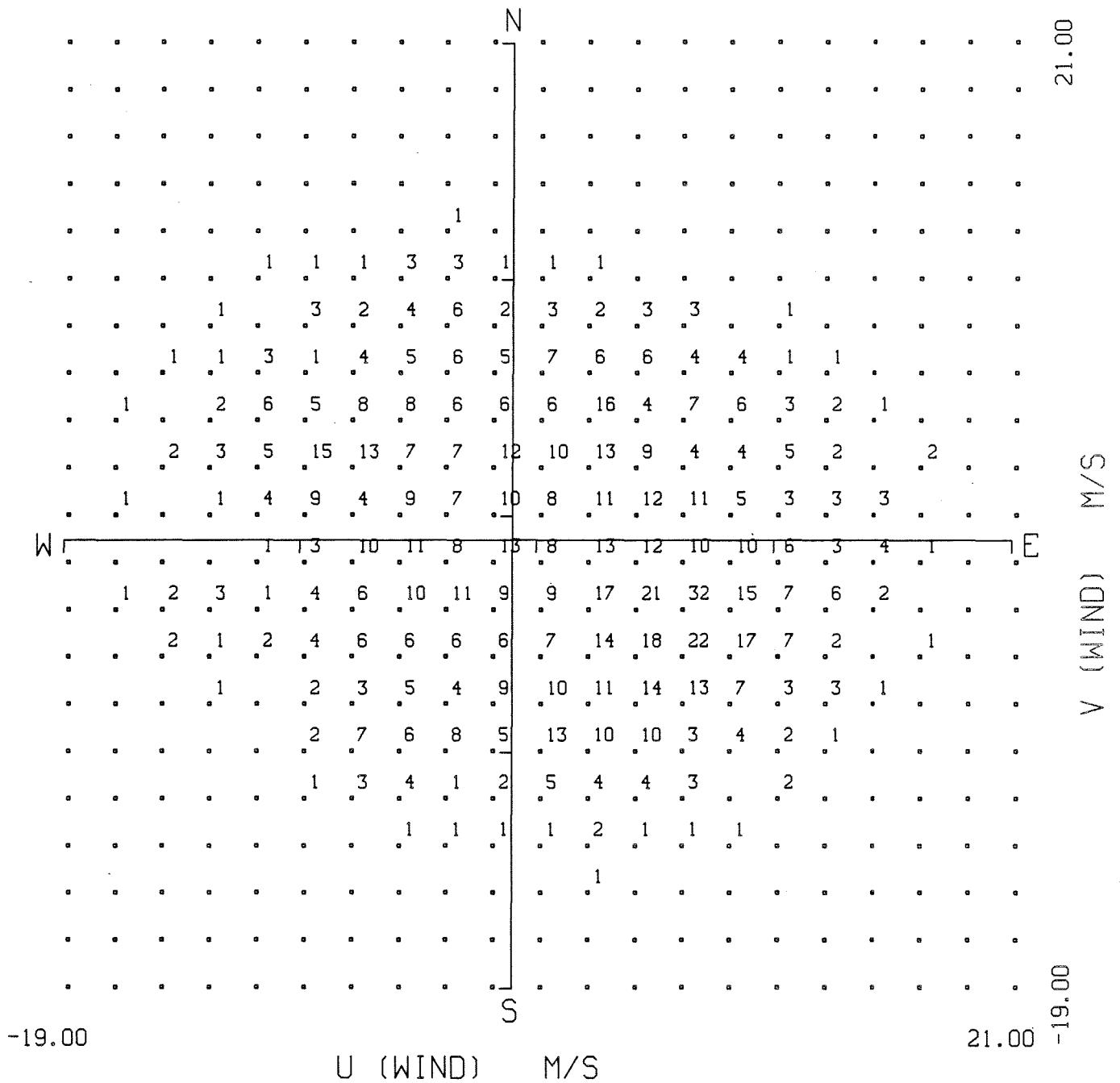
SABLE ISLAND NOV. 1985 – APR. 1986



SABLE ISLAND NOV. 1985 – APR. 1986



SABLE ISLAND NOV. 1985 – APR. 1986

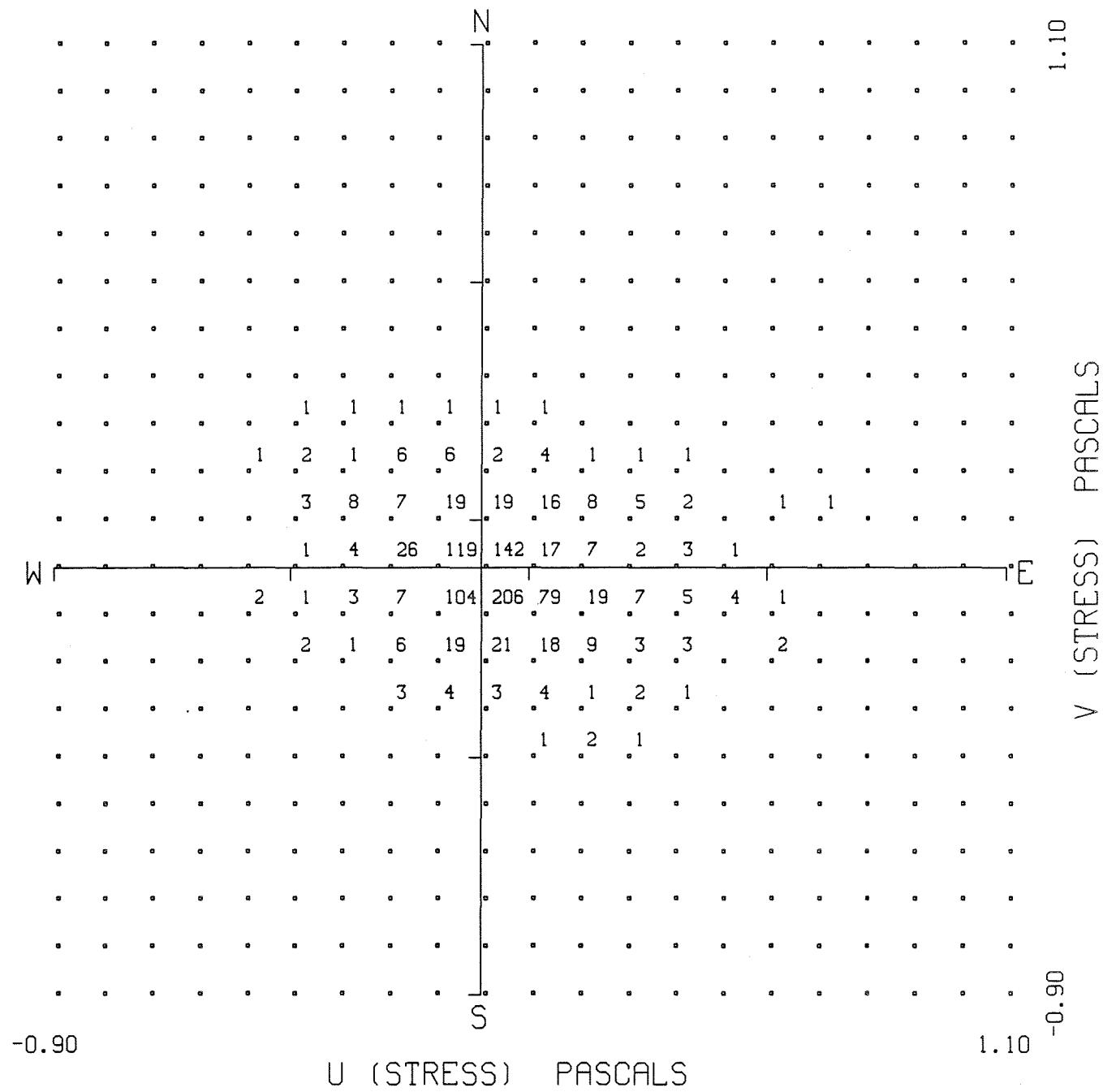


FREQUENCY DISTRIBUTION PLOT

SABLE ISLAND

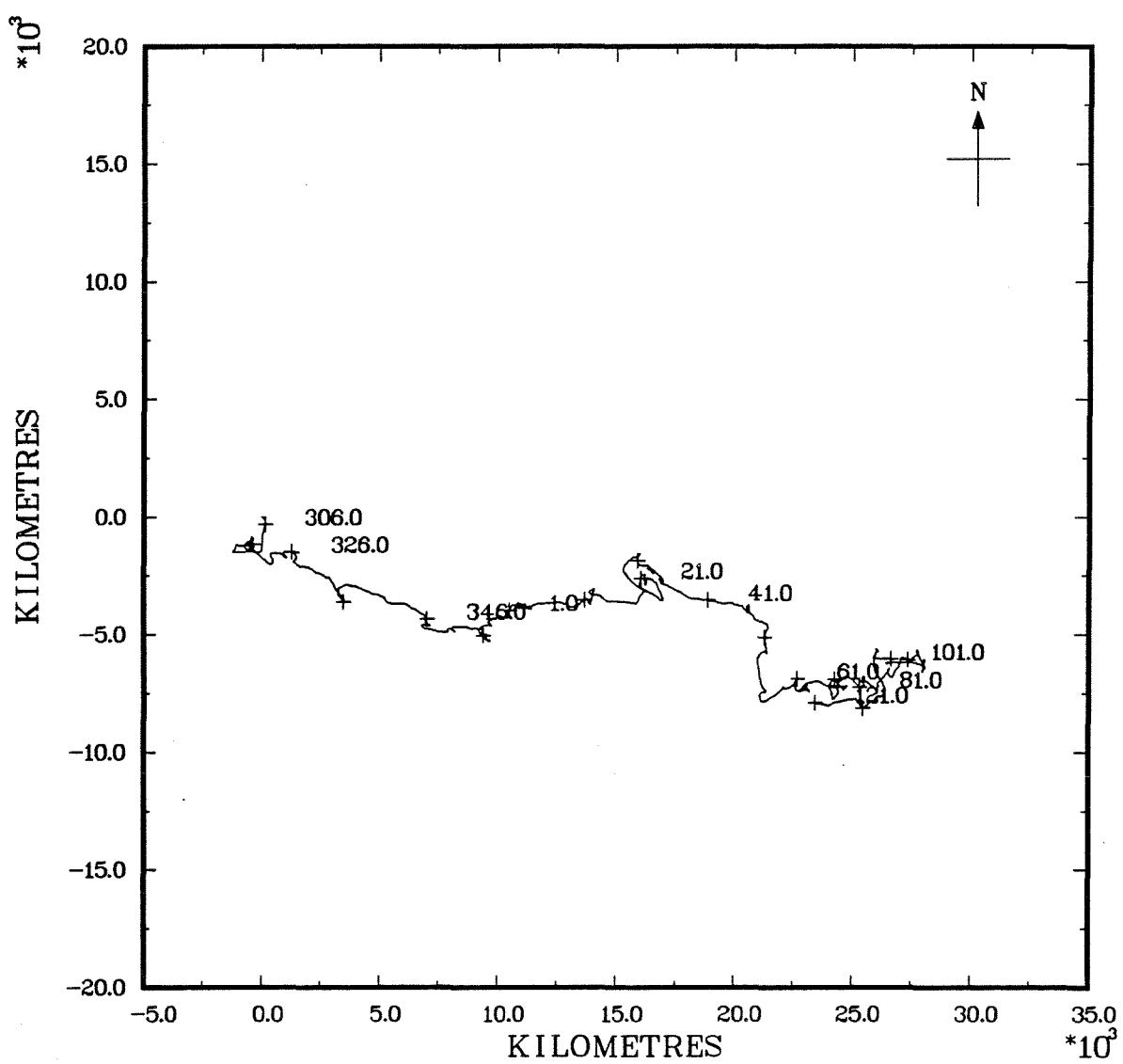
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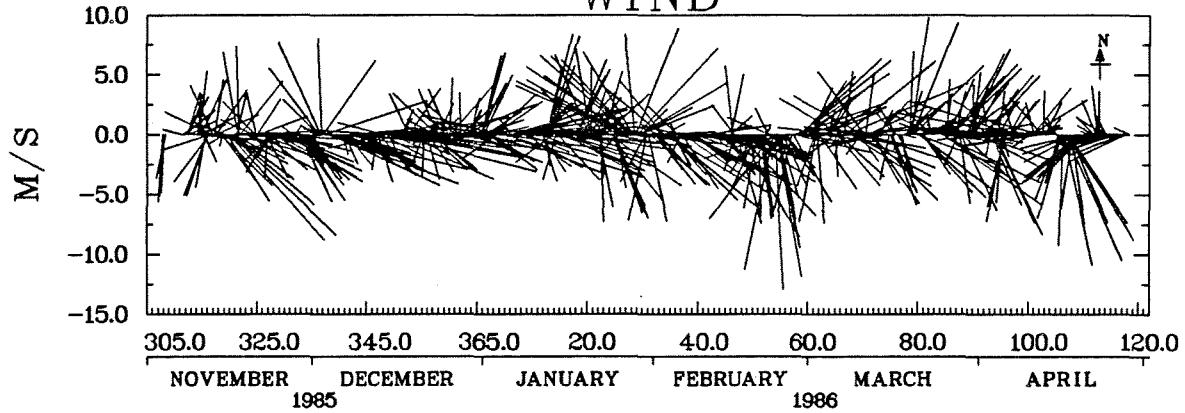


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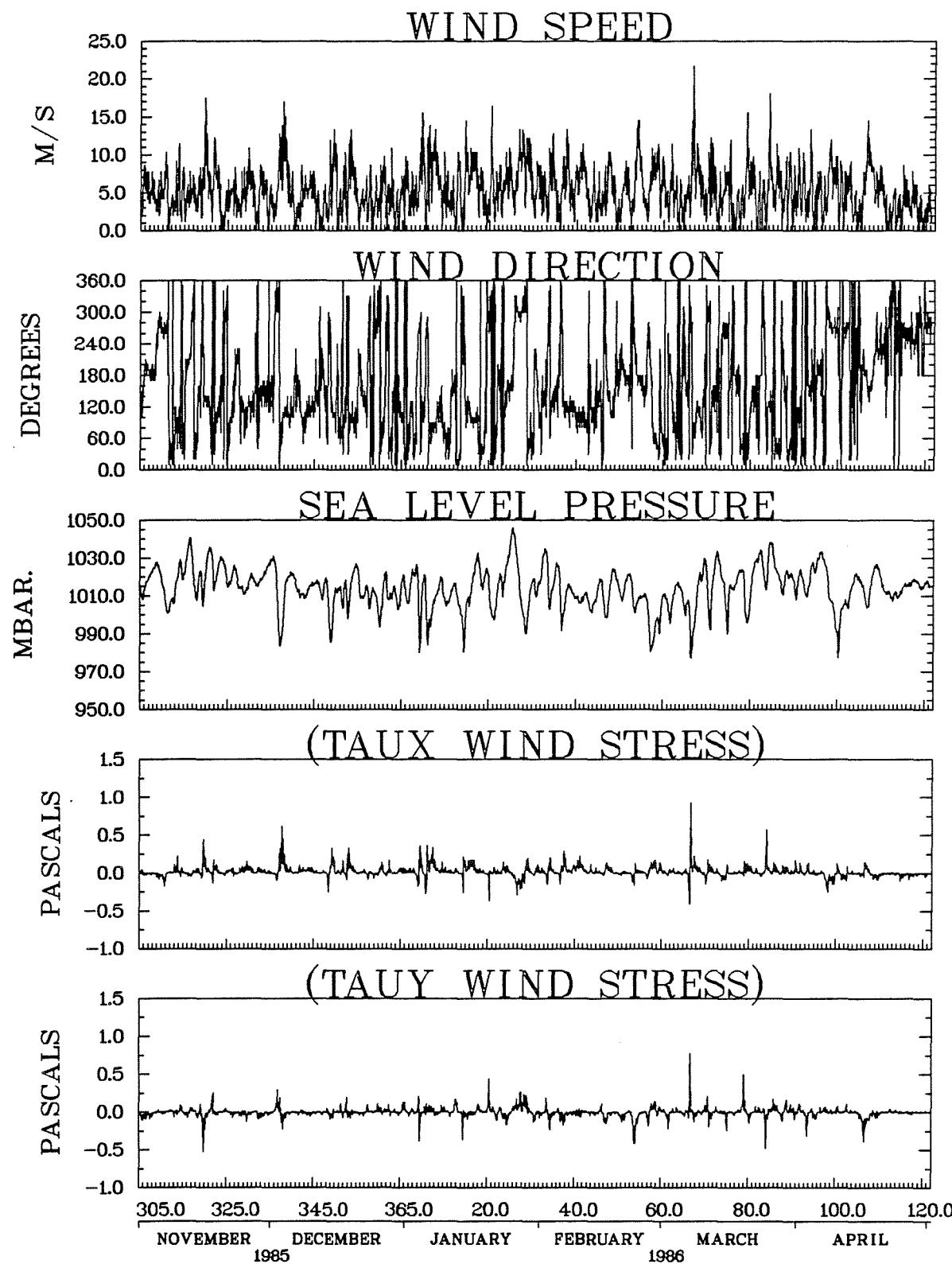
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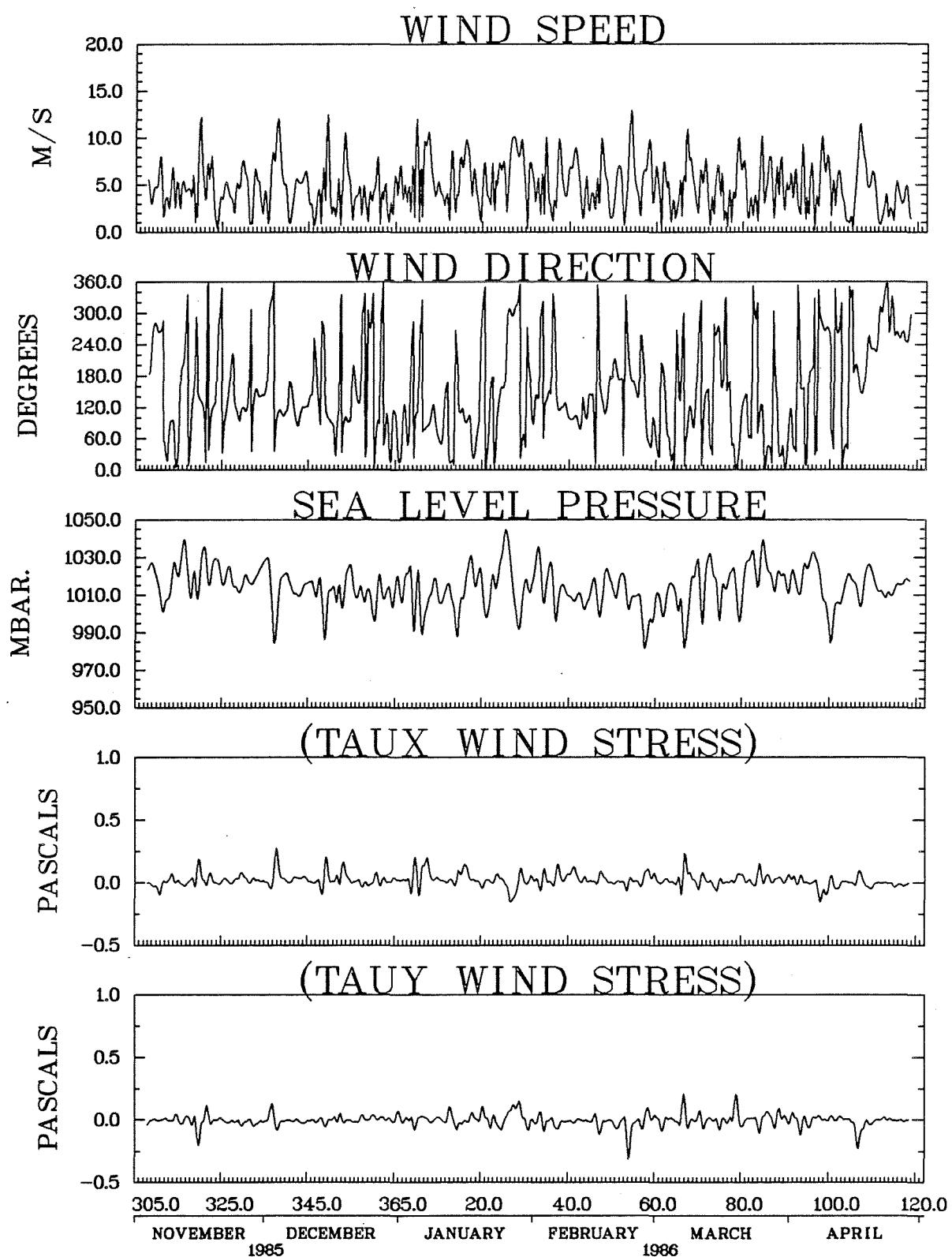
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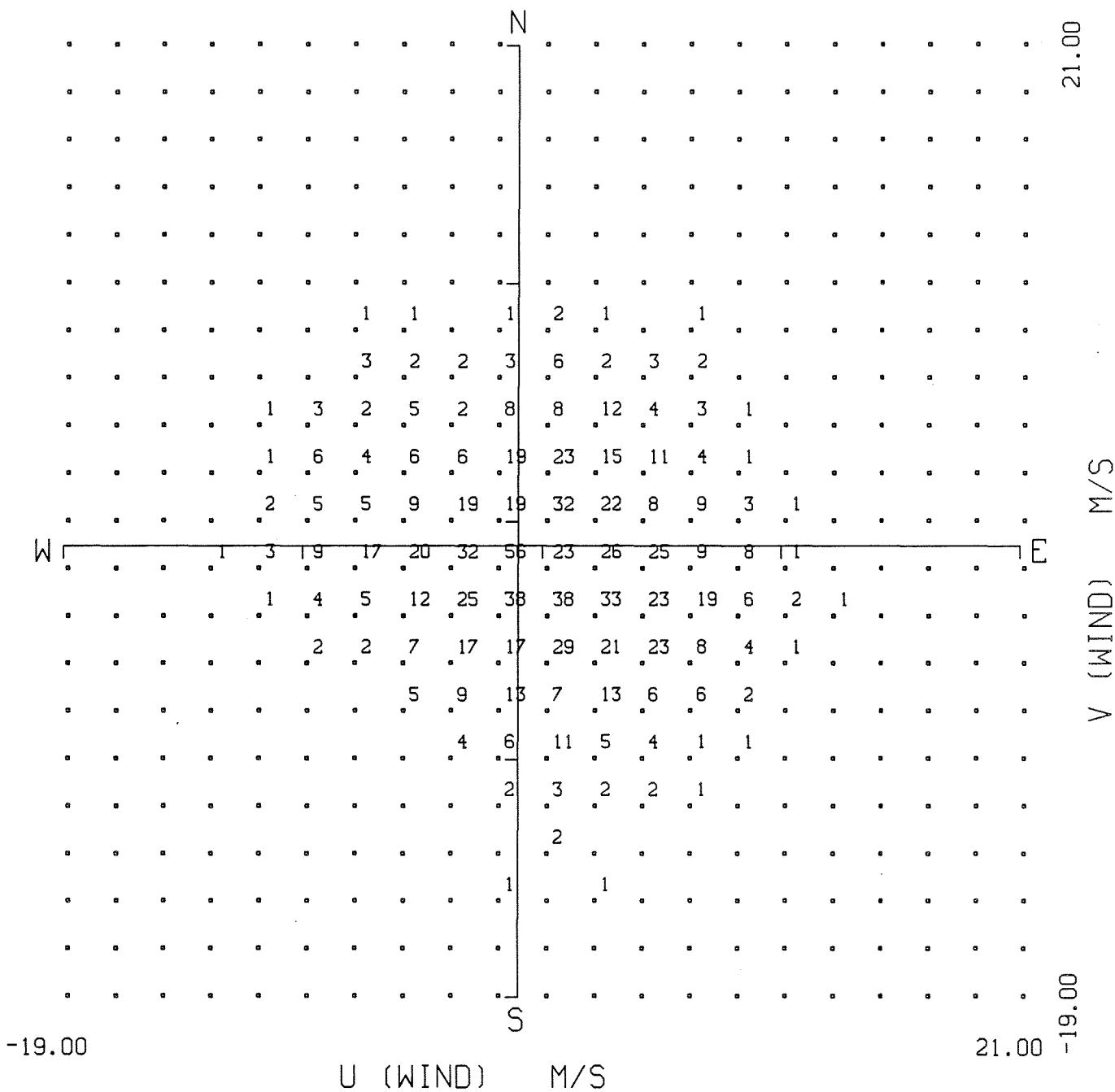
SHEARWATER NOV. 1985 – APR. 1986



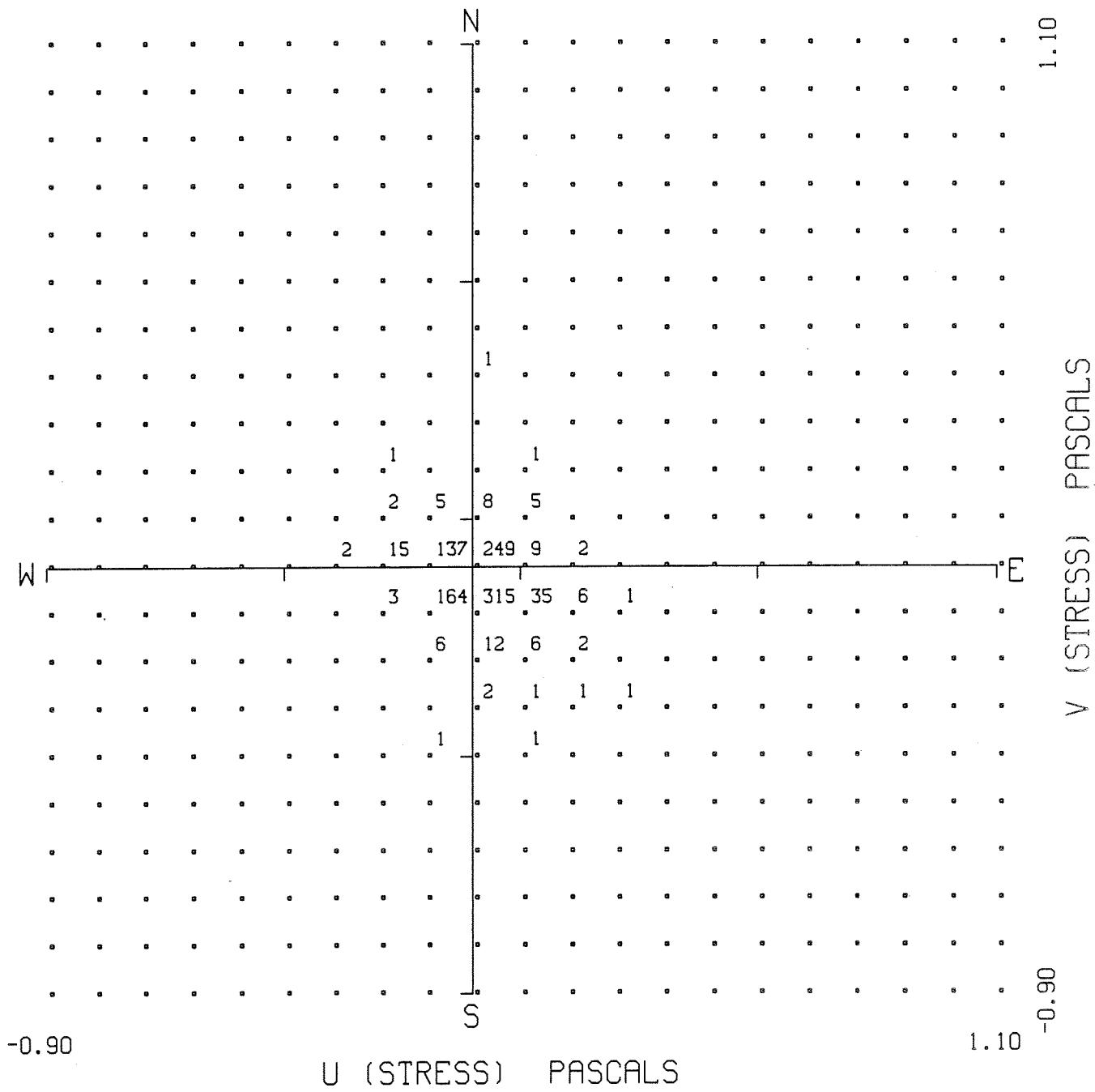
SHEARWATER NOV. 1985 - APR. 1986



SHEARWATER NOV. 1985 – APR. 1986

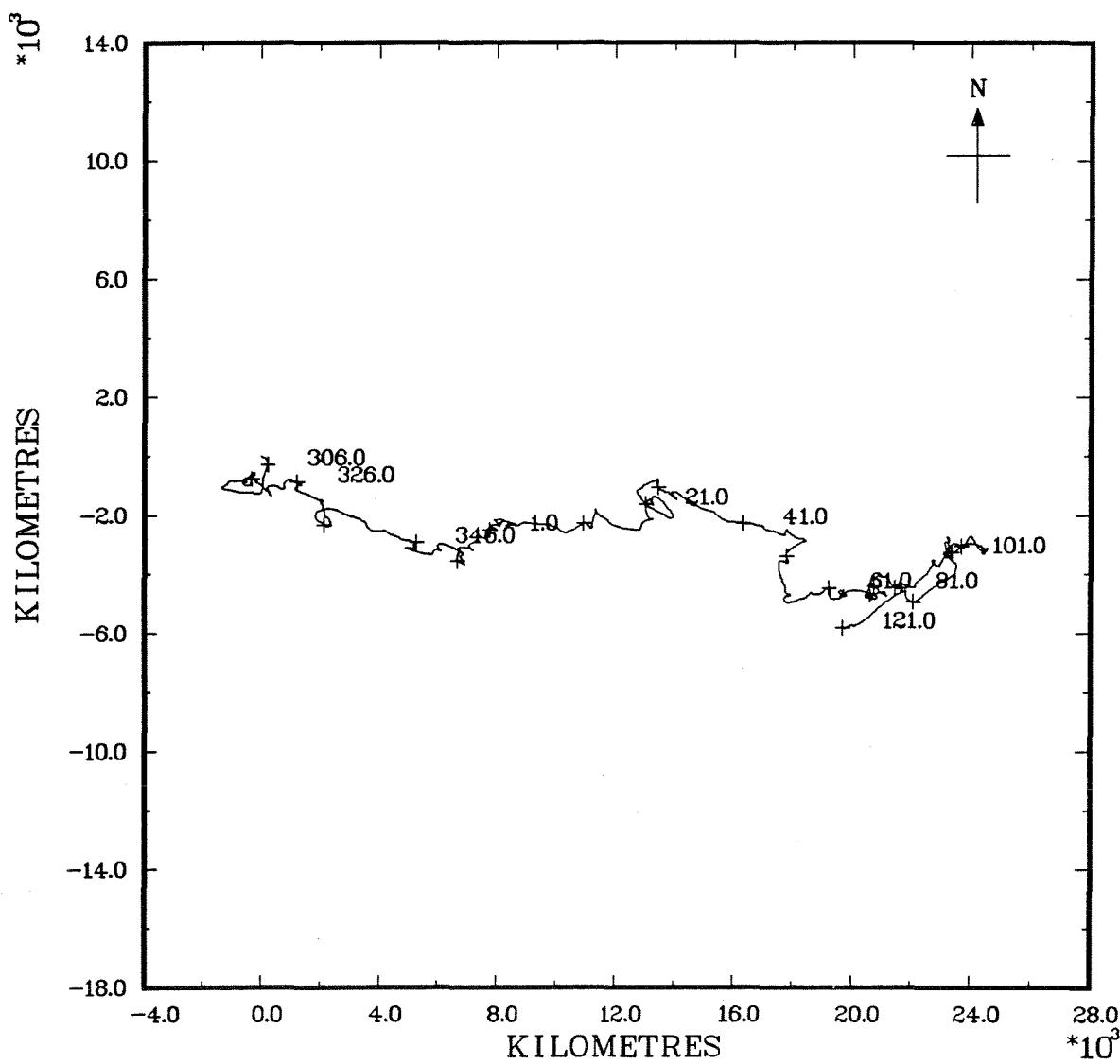


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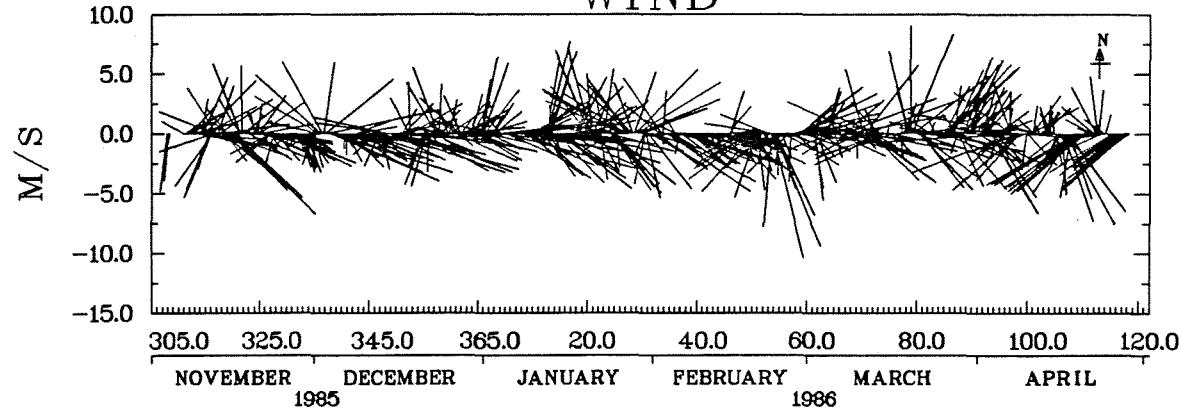


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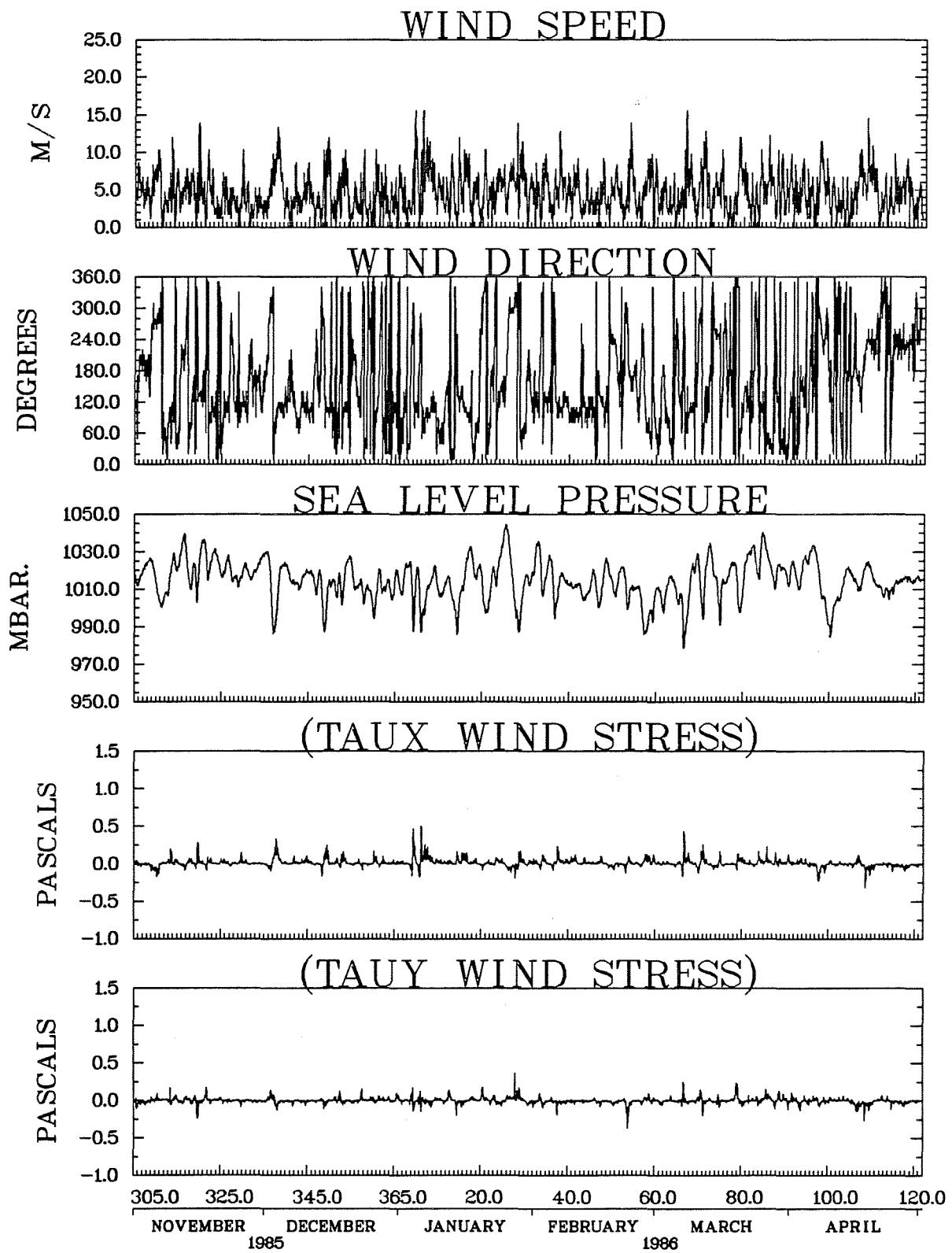
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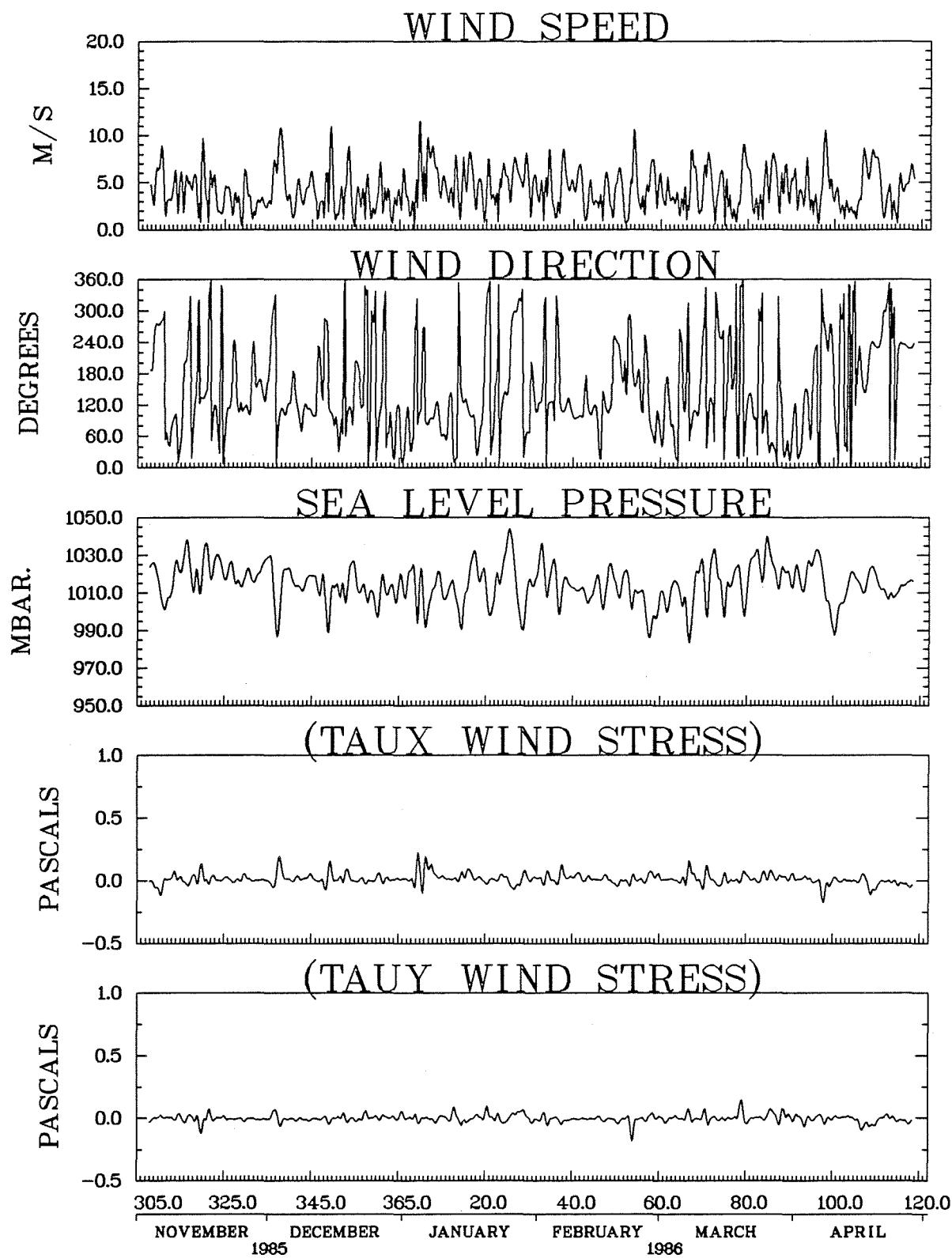
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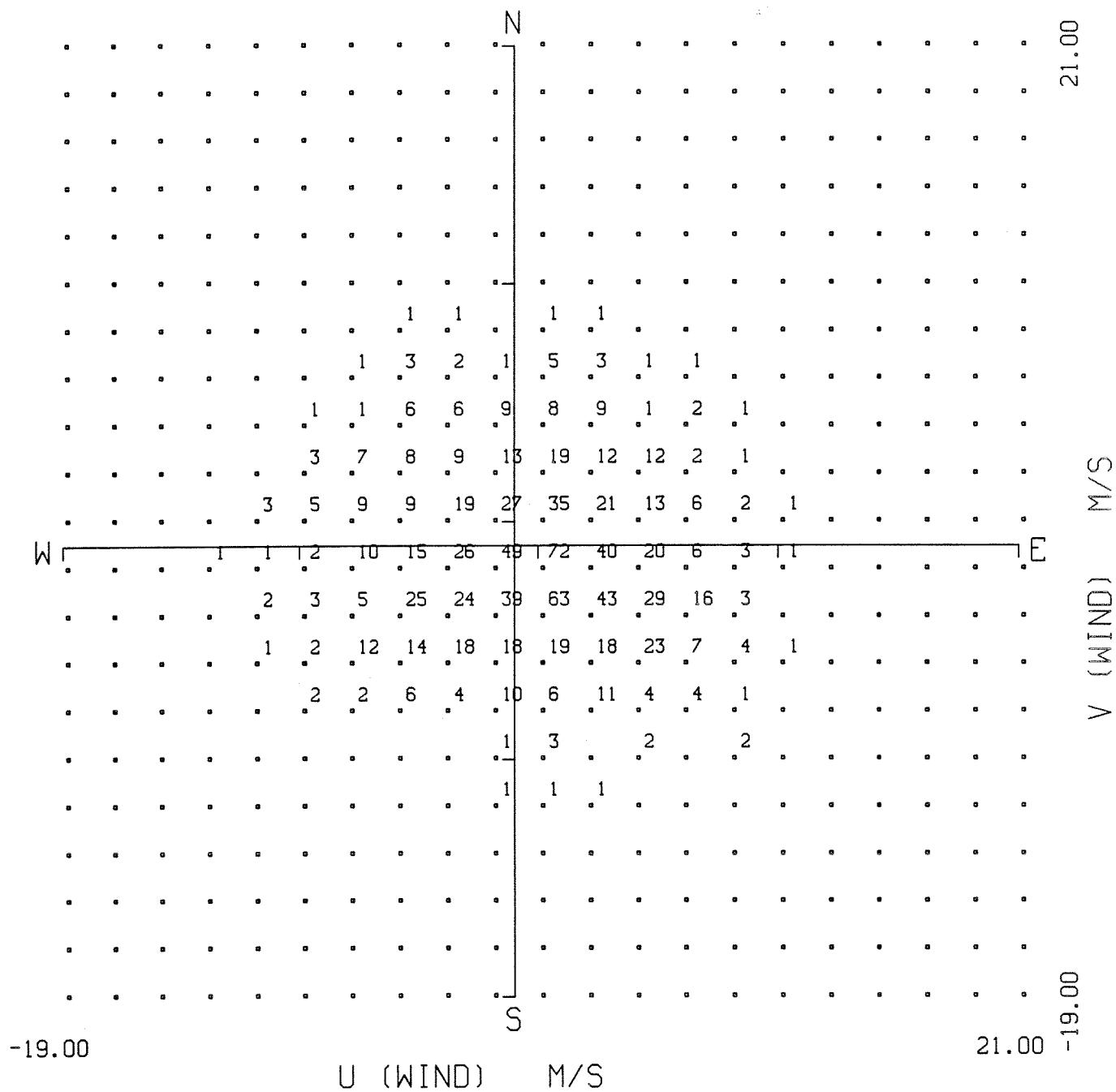
SHELBOURNE NOV. 1985 – APR. 1986



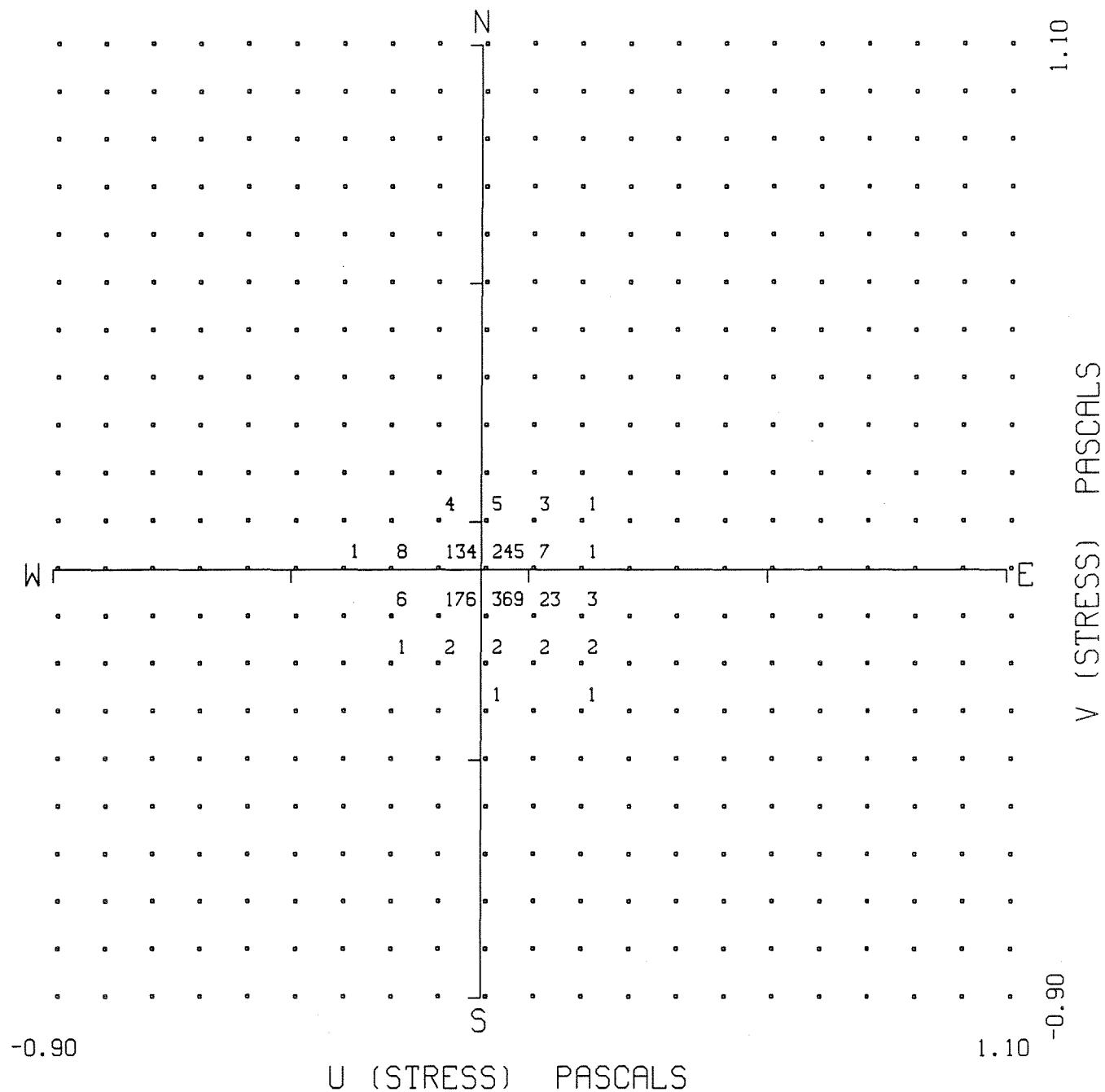
SHELBOURNE NOV. 1985 – APR. 1986



SHELBOURNE NOV. 1985 – APR. 1986



FREQUENCY DISTRIBUTION PLOT
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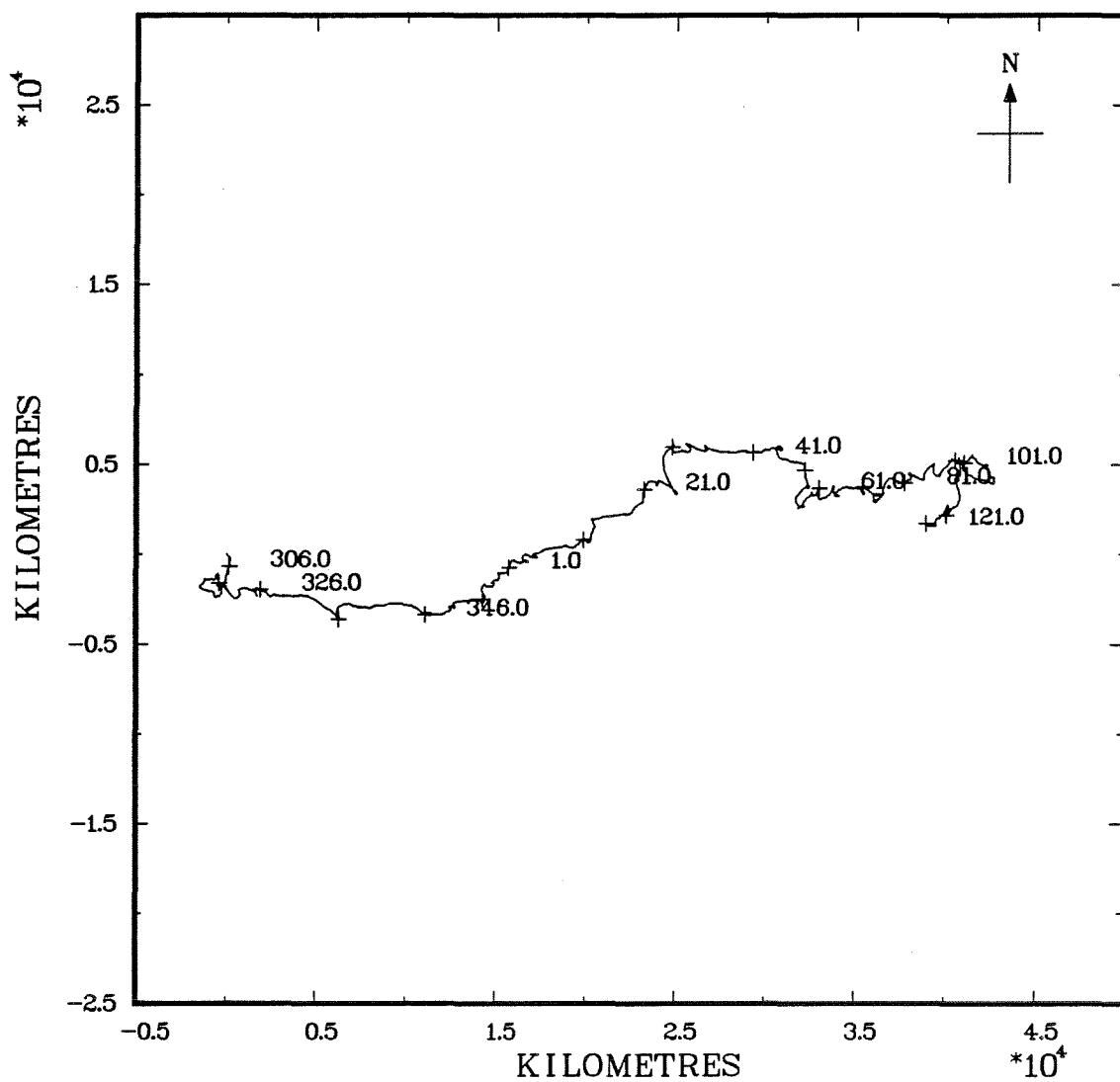
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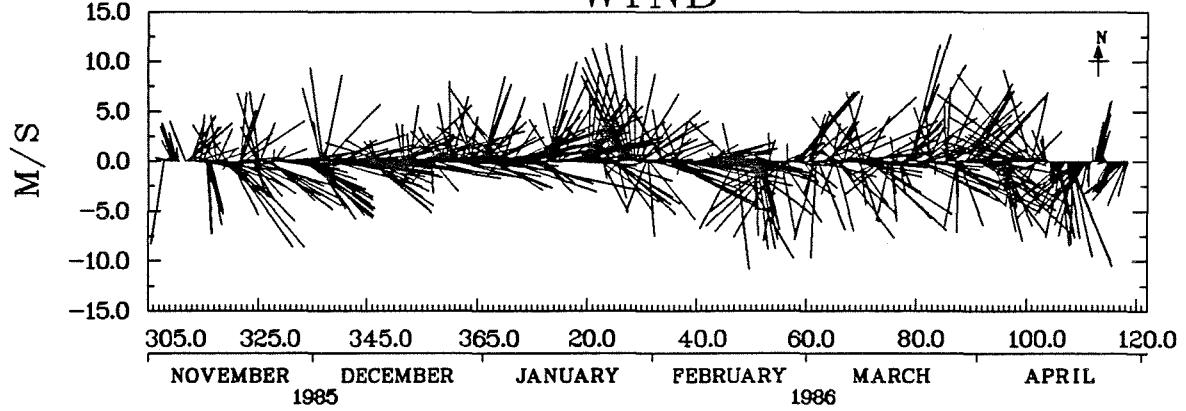
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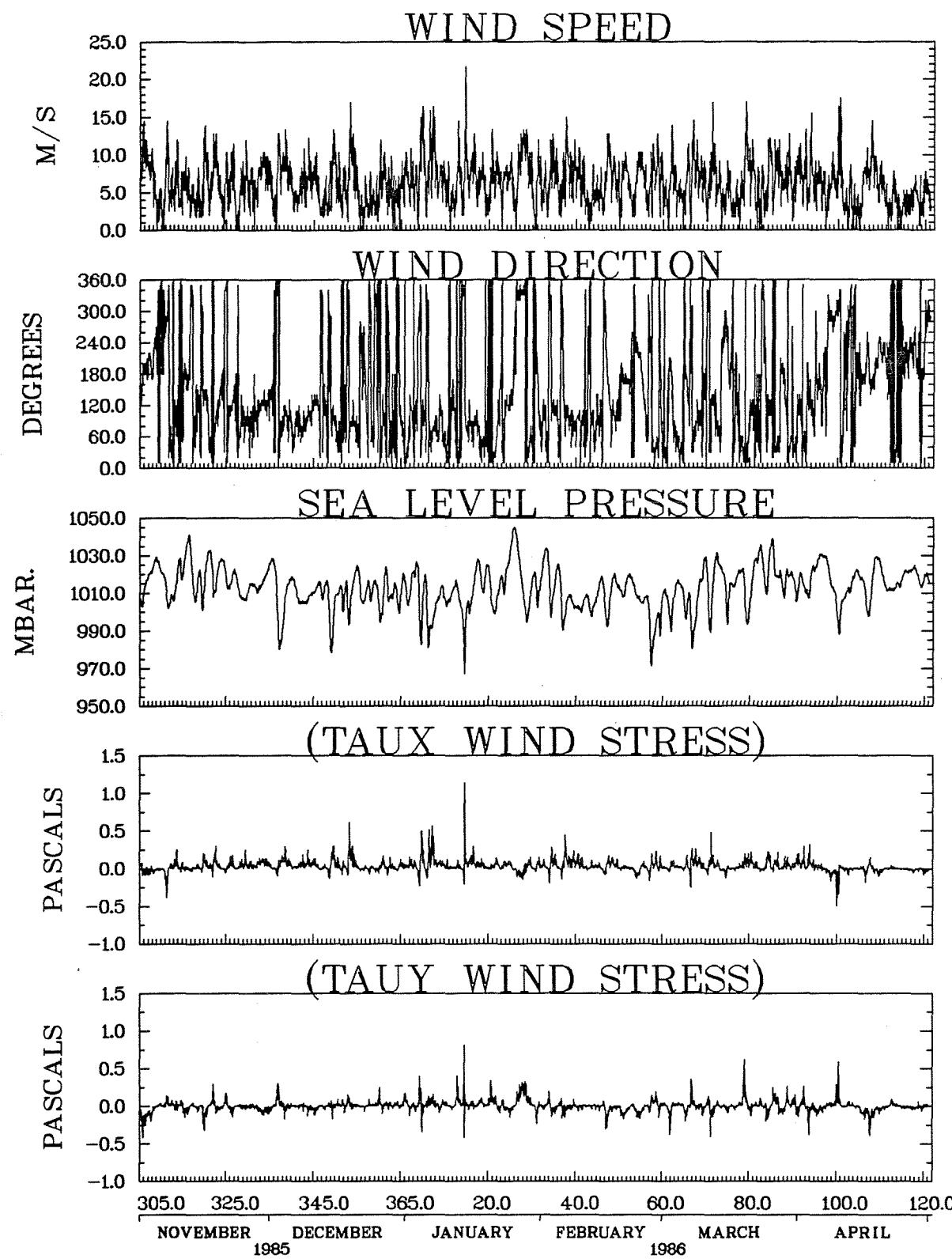
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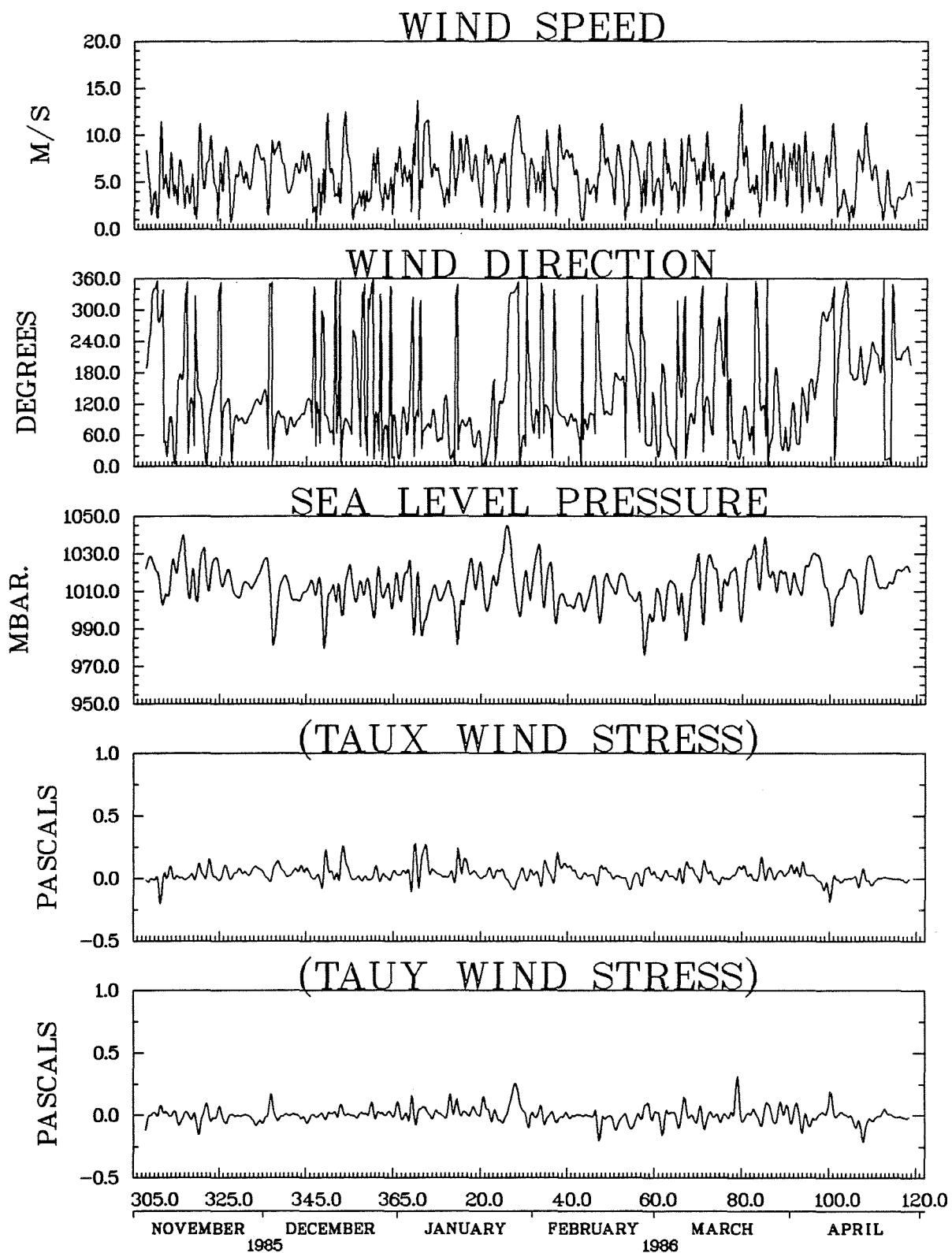
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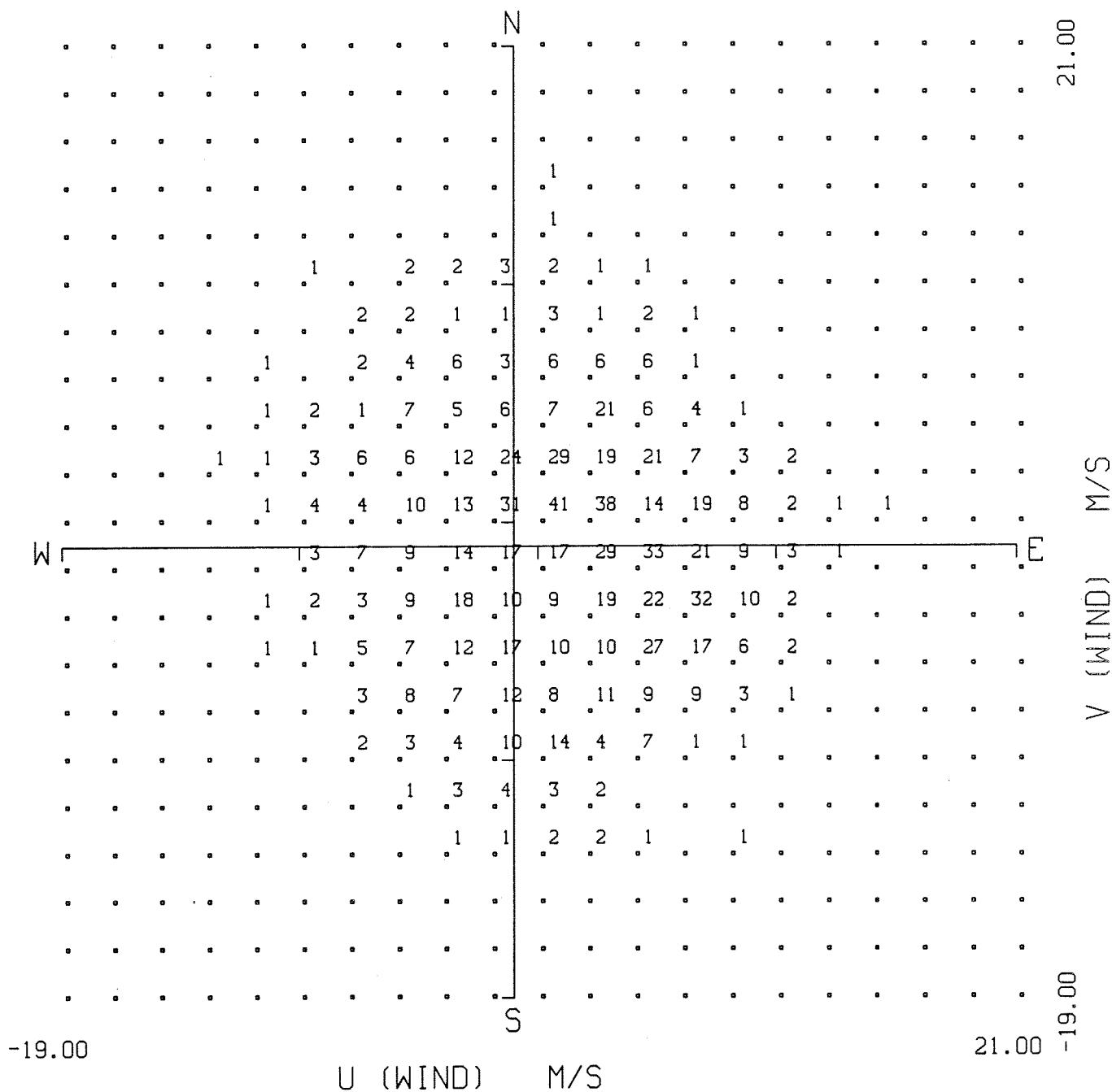
SYDNEY NOV. 1985 – APR. 1986



SYDNEY NOV. 1985 – APR. 1986



SYDNEY NOV. 1985 – APR. 1986

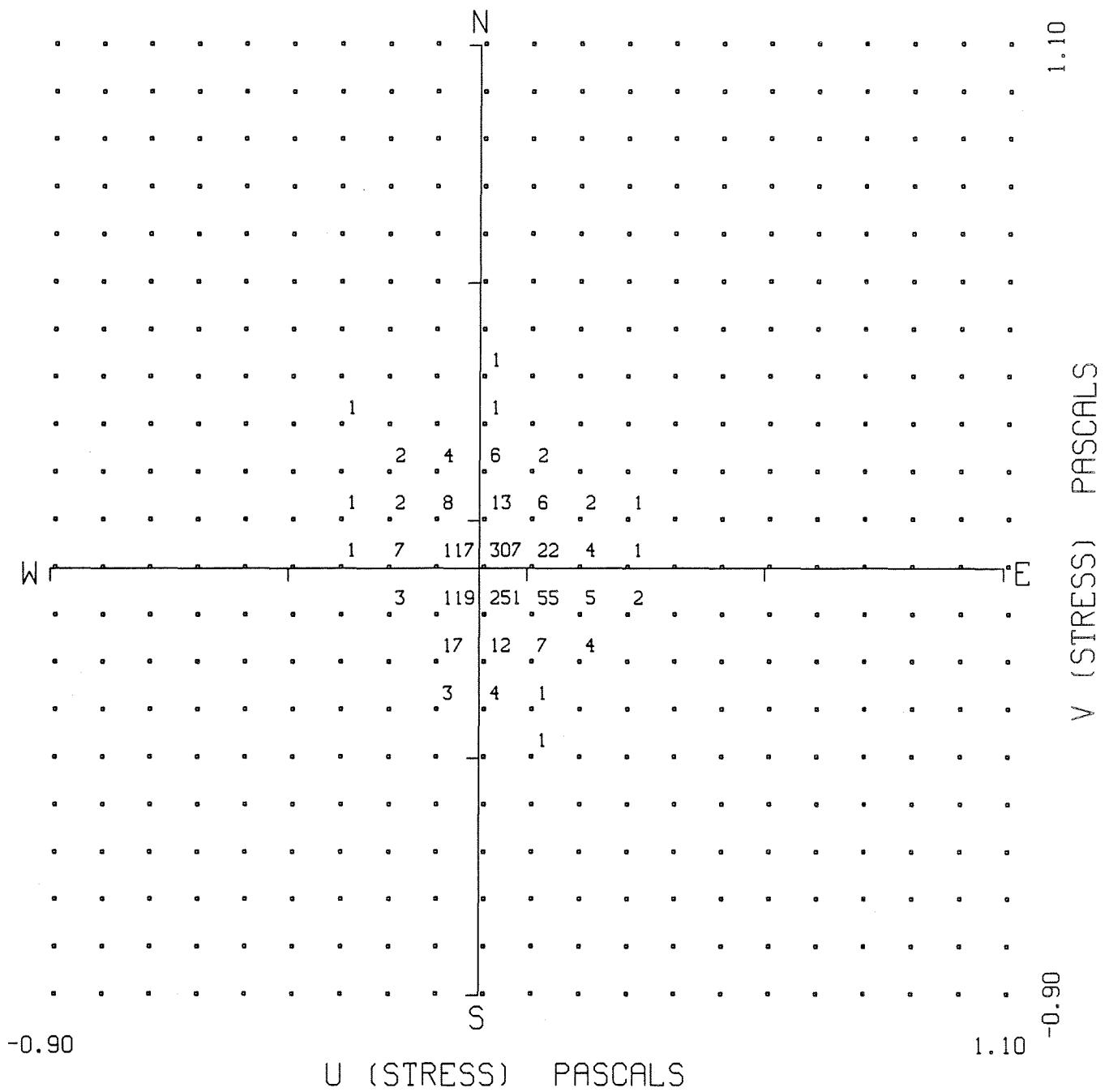


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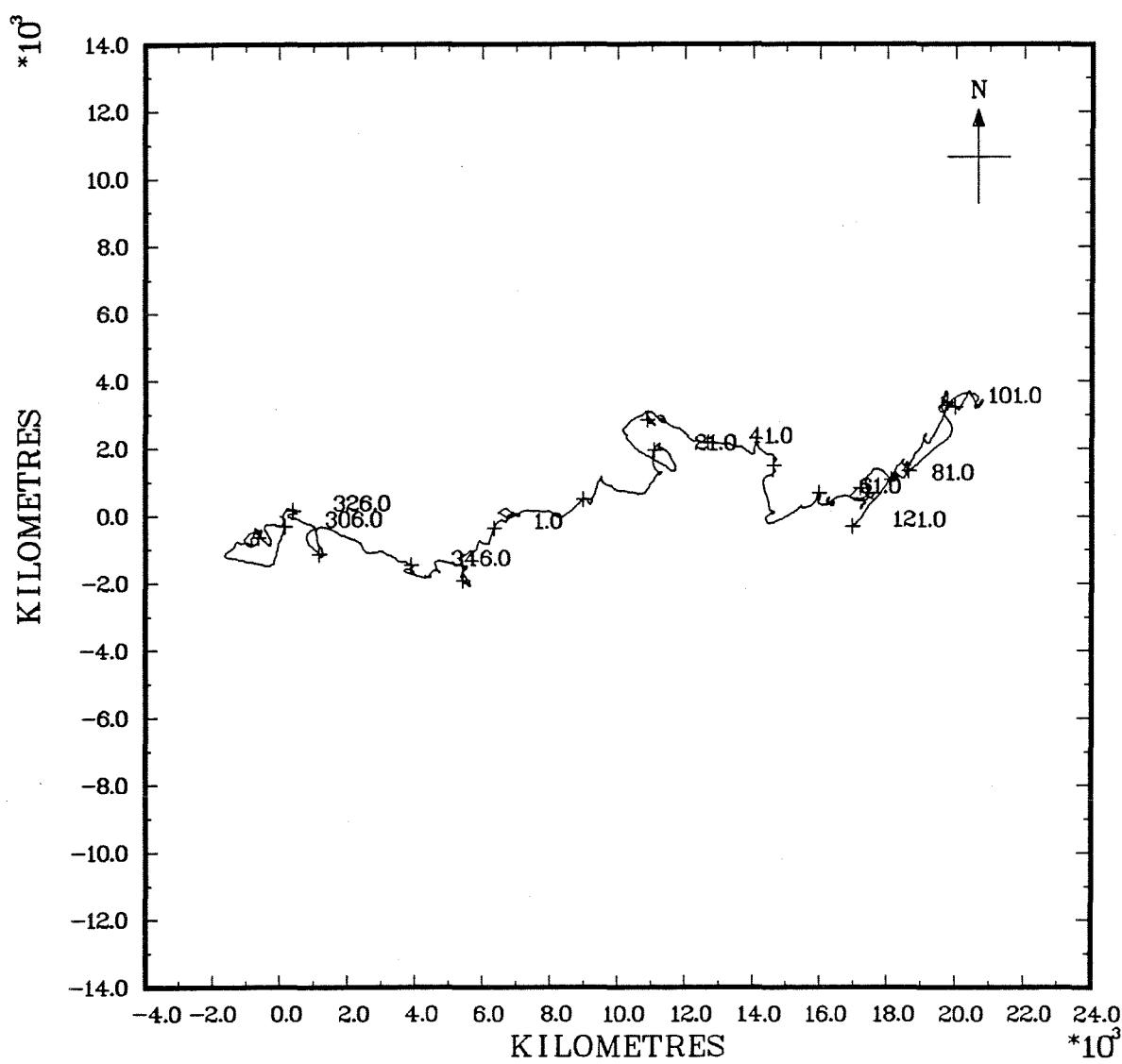
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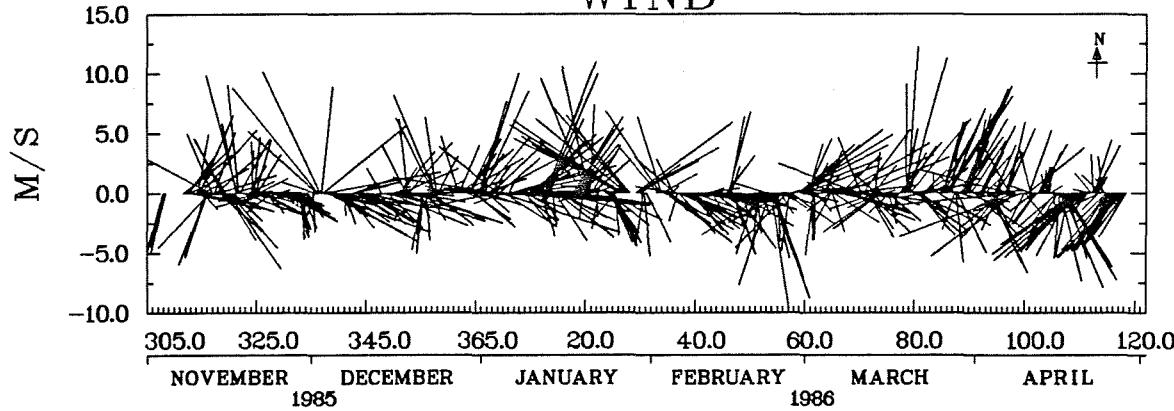
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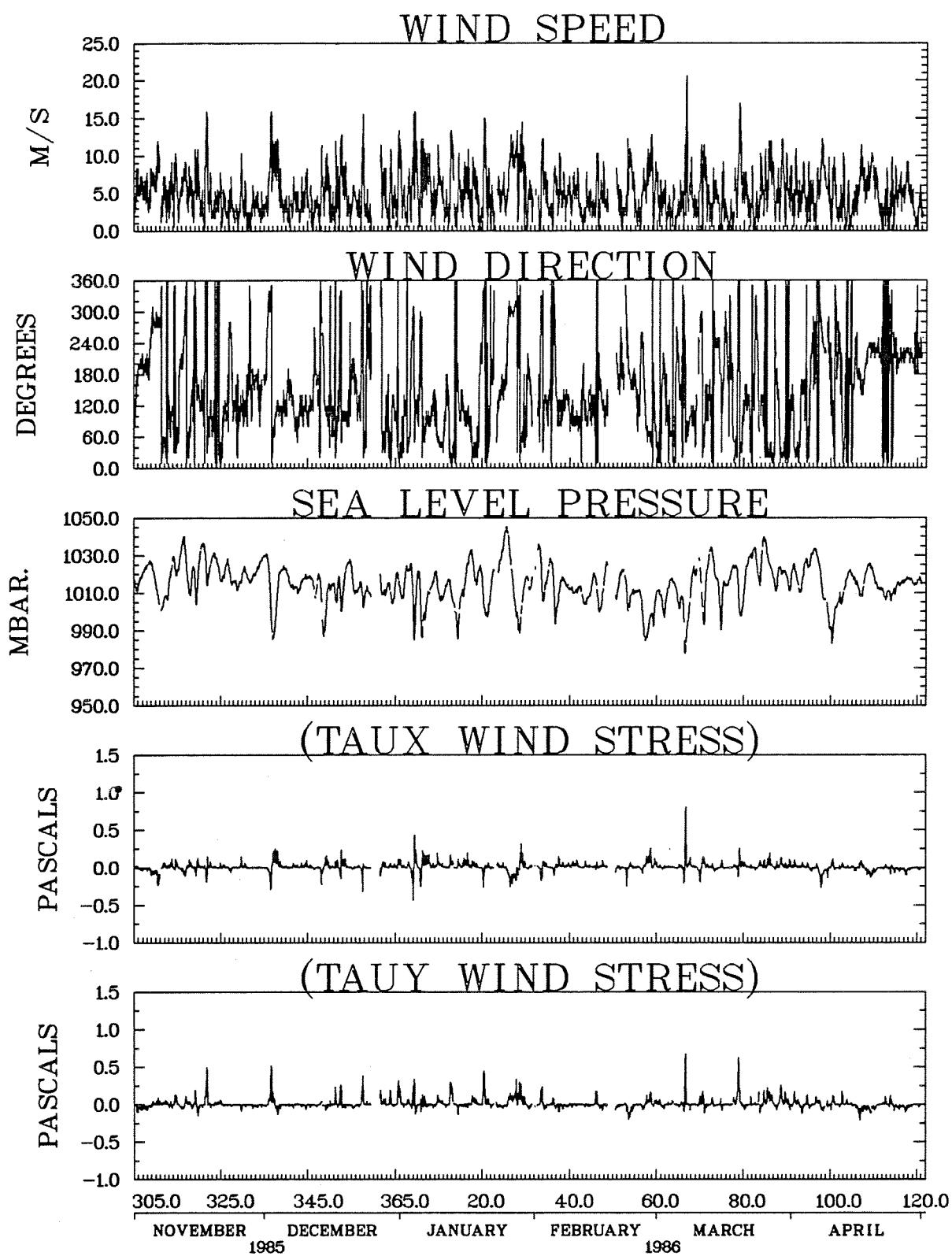
WIND

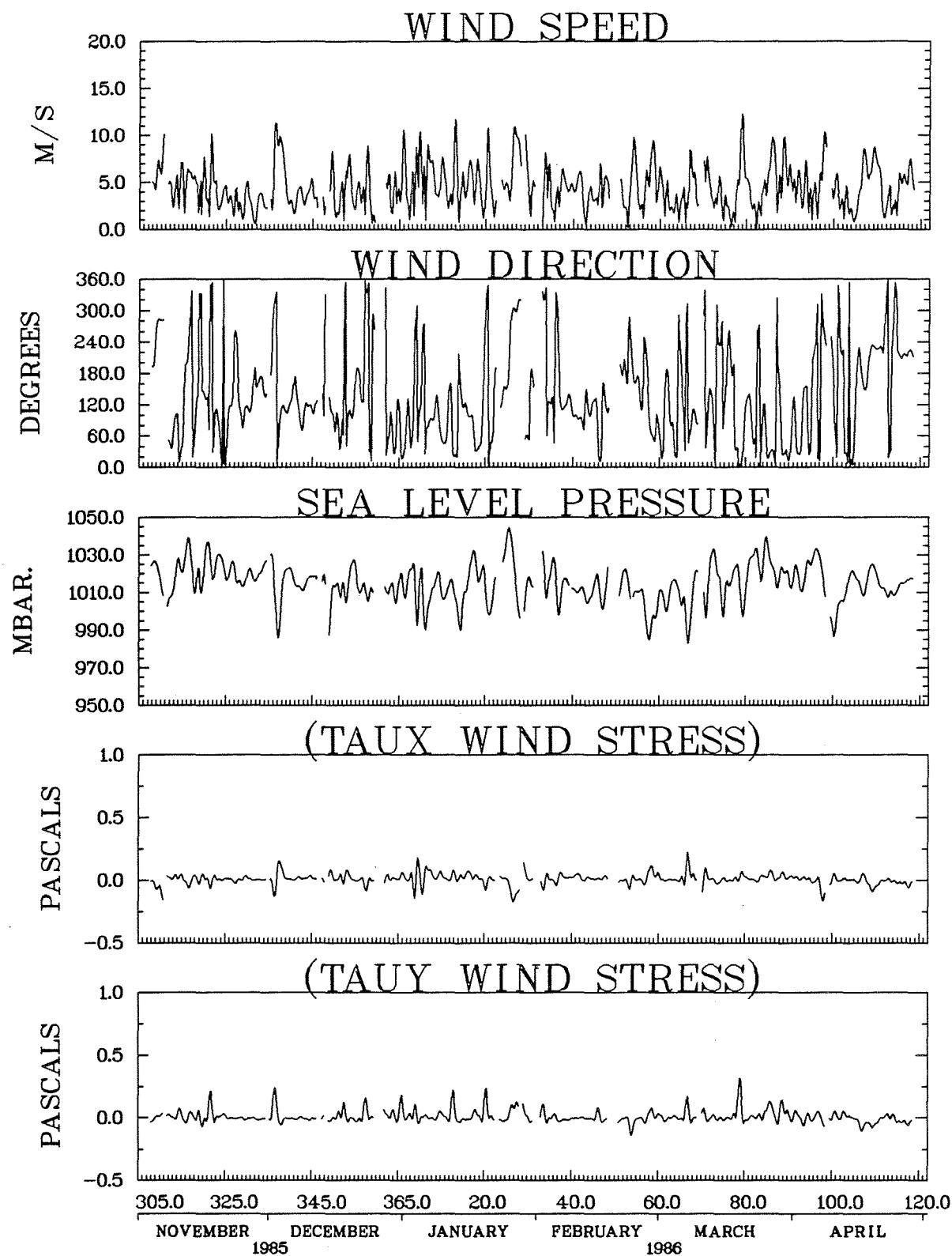


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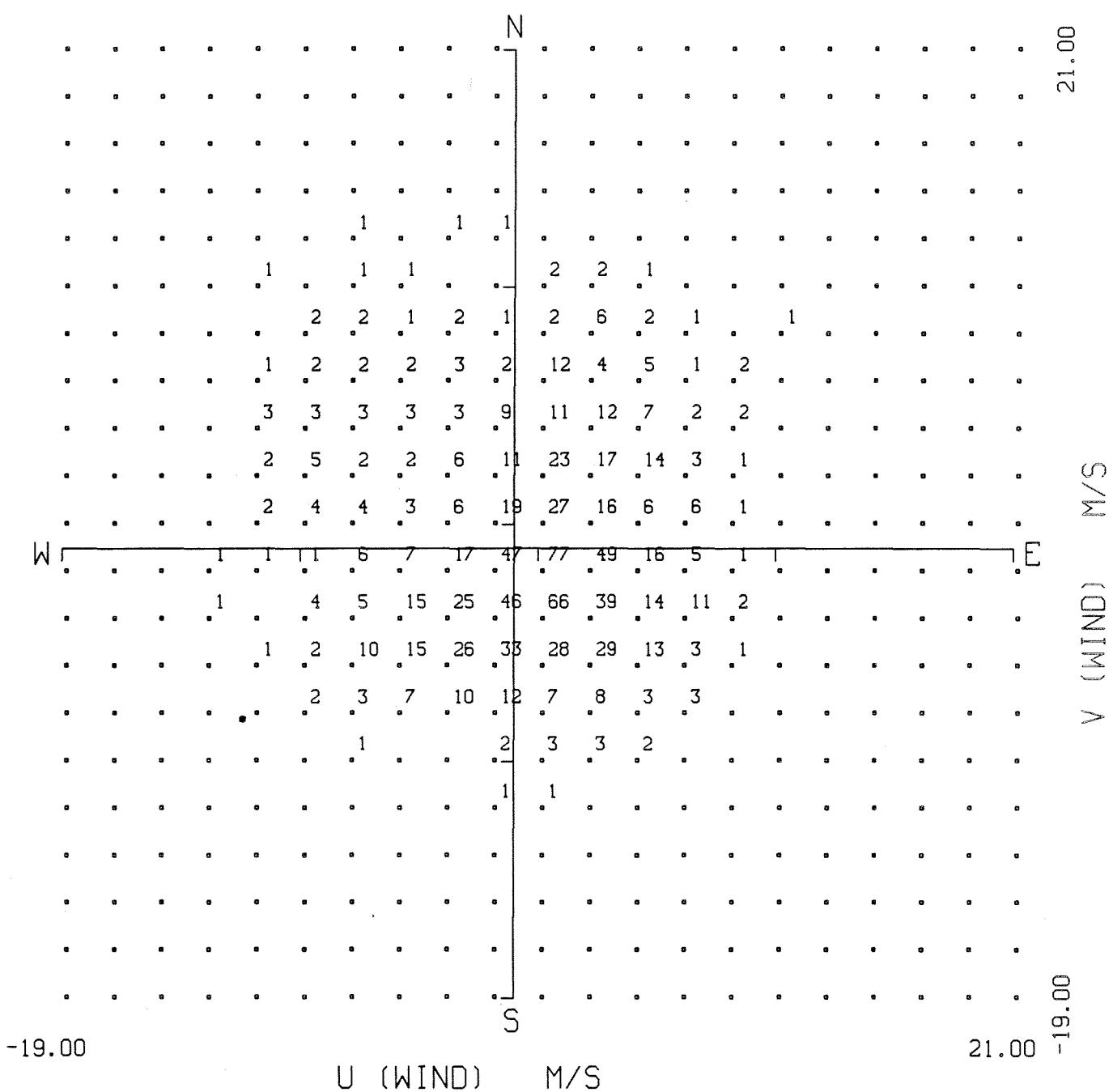


WESTERN HEAD NOV. 1985 – APR. 1986





WESTERN HEAD NOV. 1985 – APR. 1986

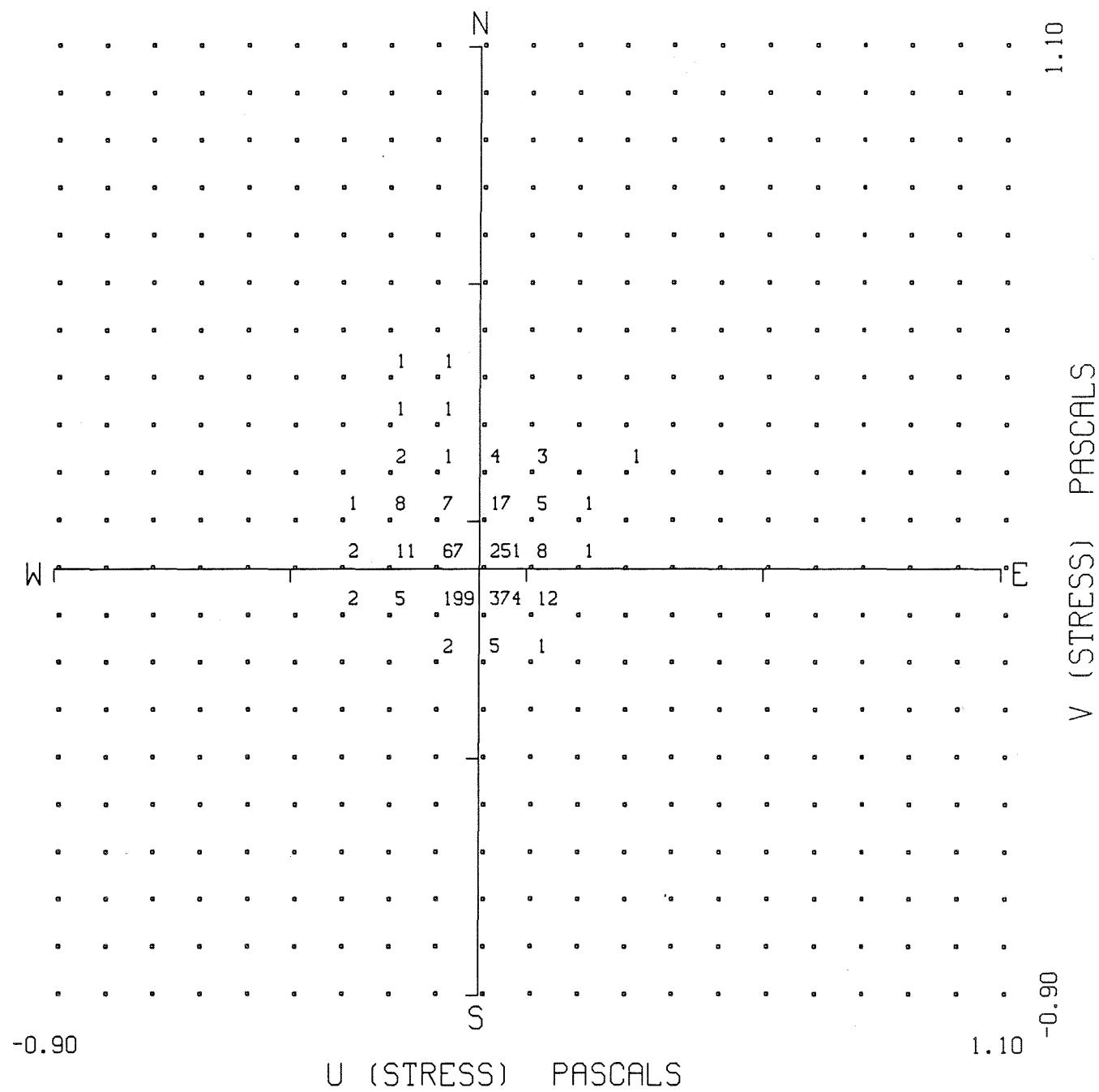


FREQUENCY DISTRIBUTION PLOT

WESTERN HEAD

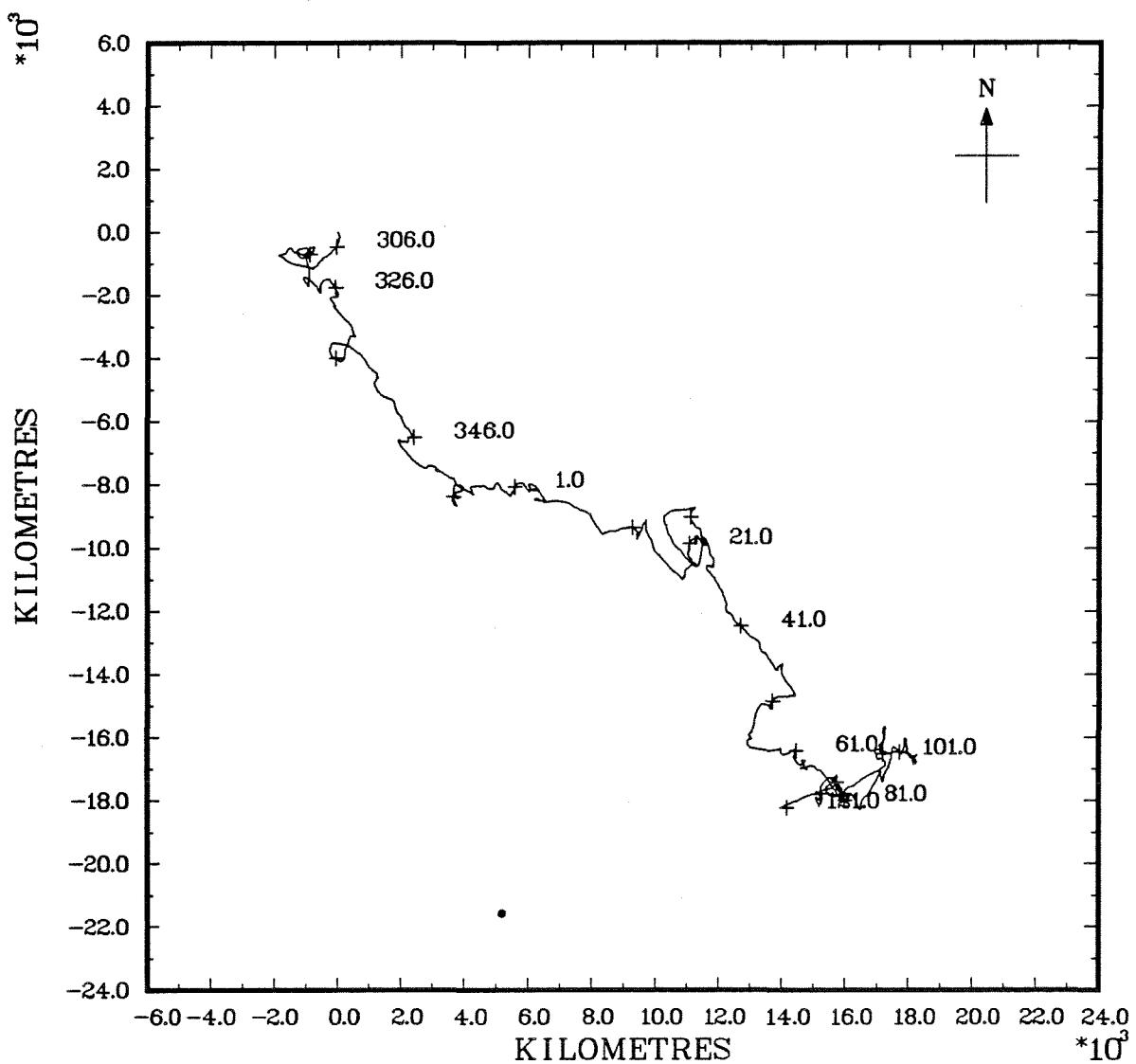
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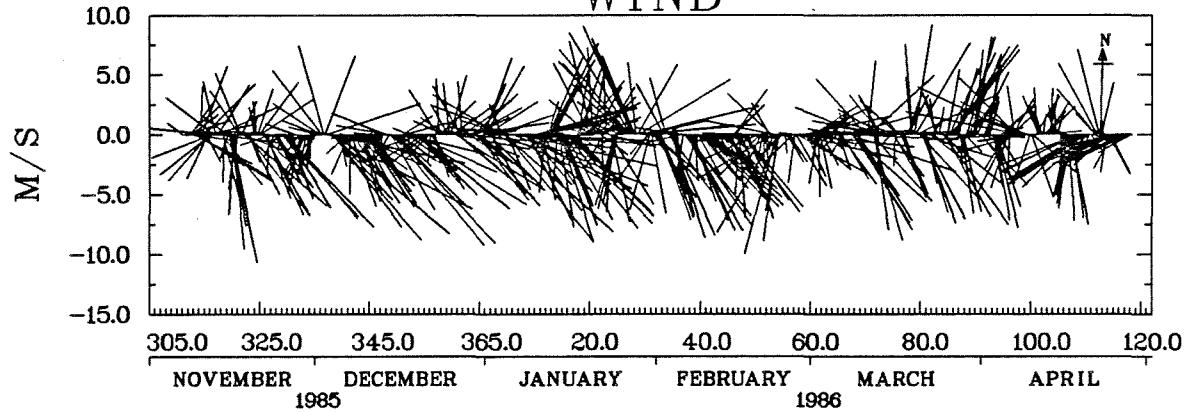


FREQUENCY DISTRIBUTION PLOT
WESTERN HEAD
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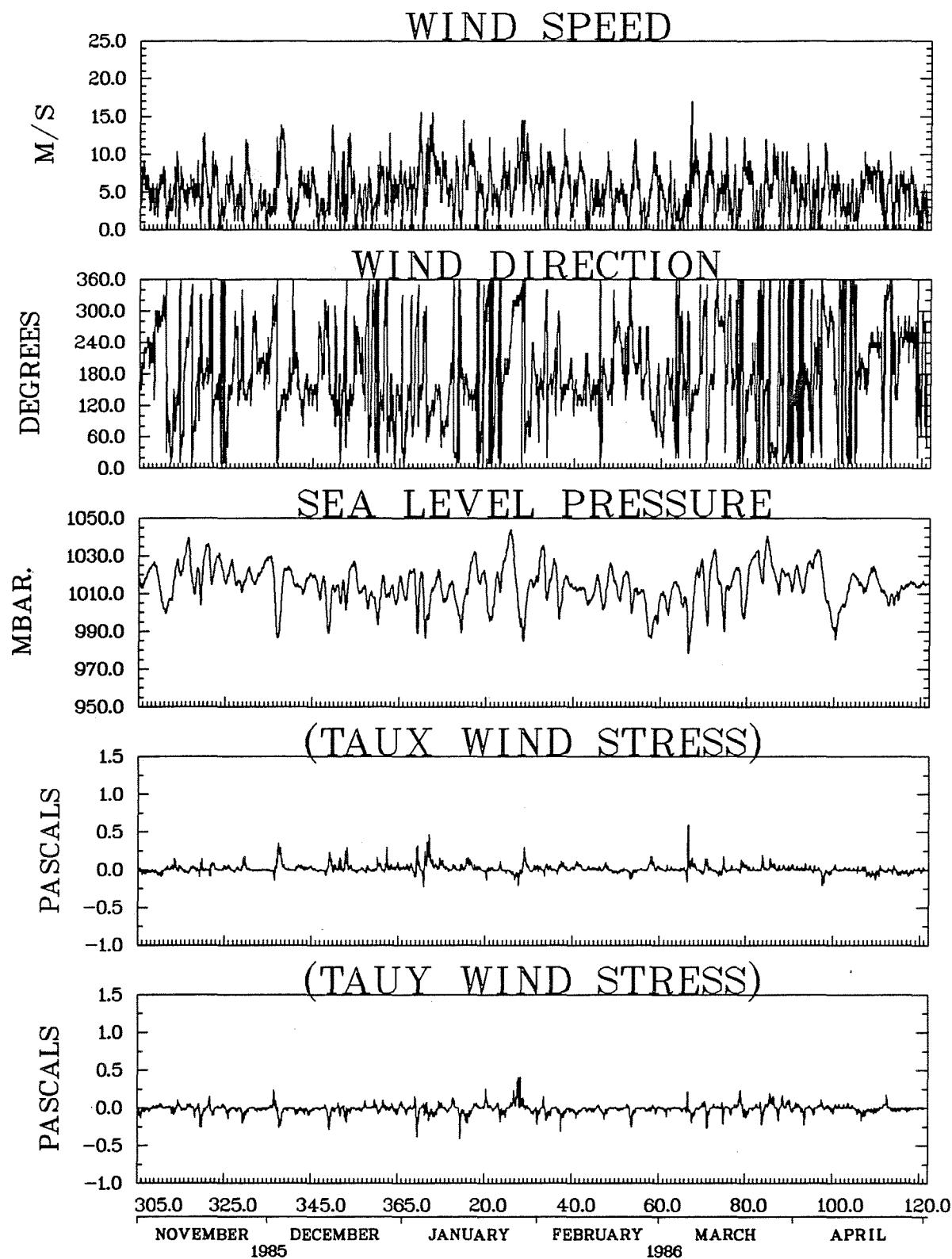
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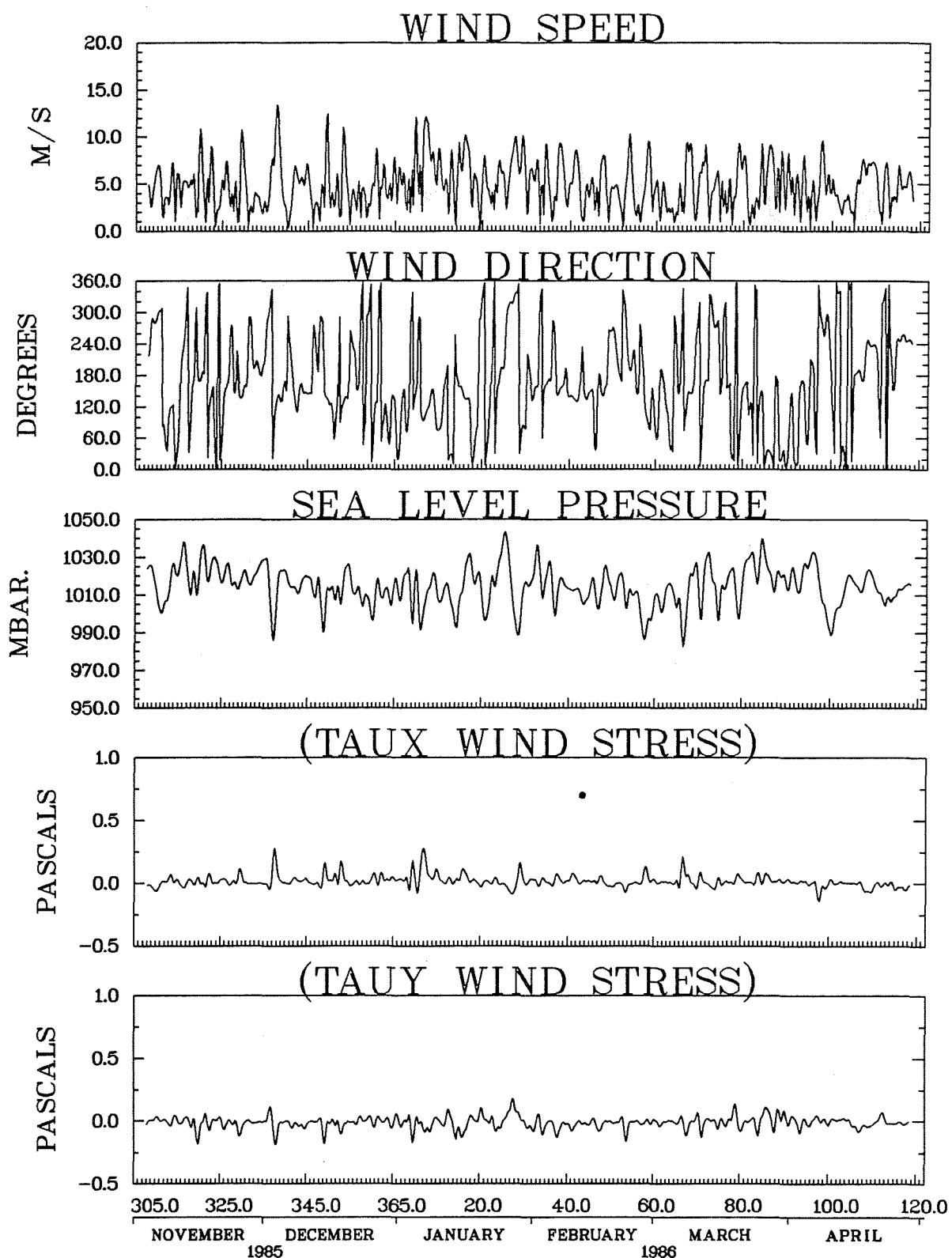
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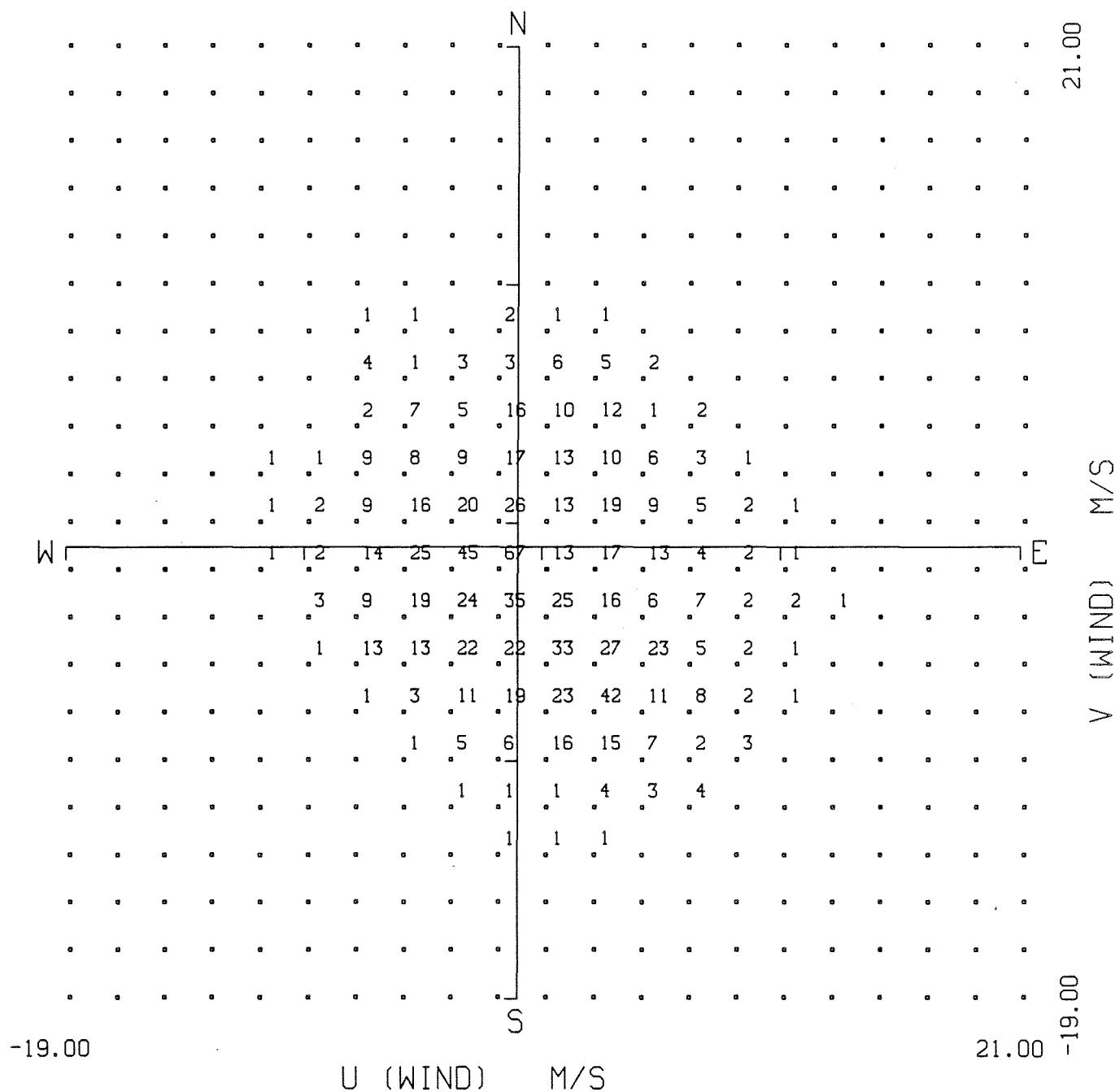
YARMOUTH NOV. 1985 – APR. 1986



YARMOUTH NOV. 1985 – APR. 1986



YARMOUTH NOV. 1985 – APR. 1986

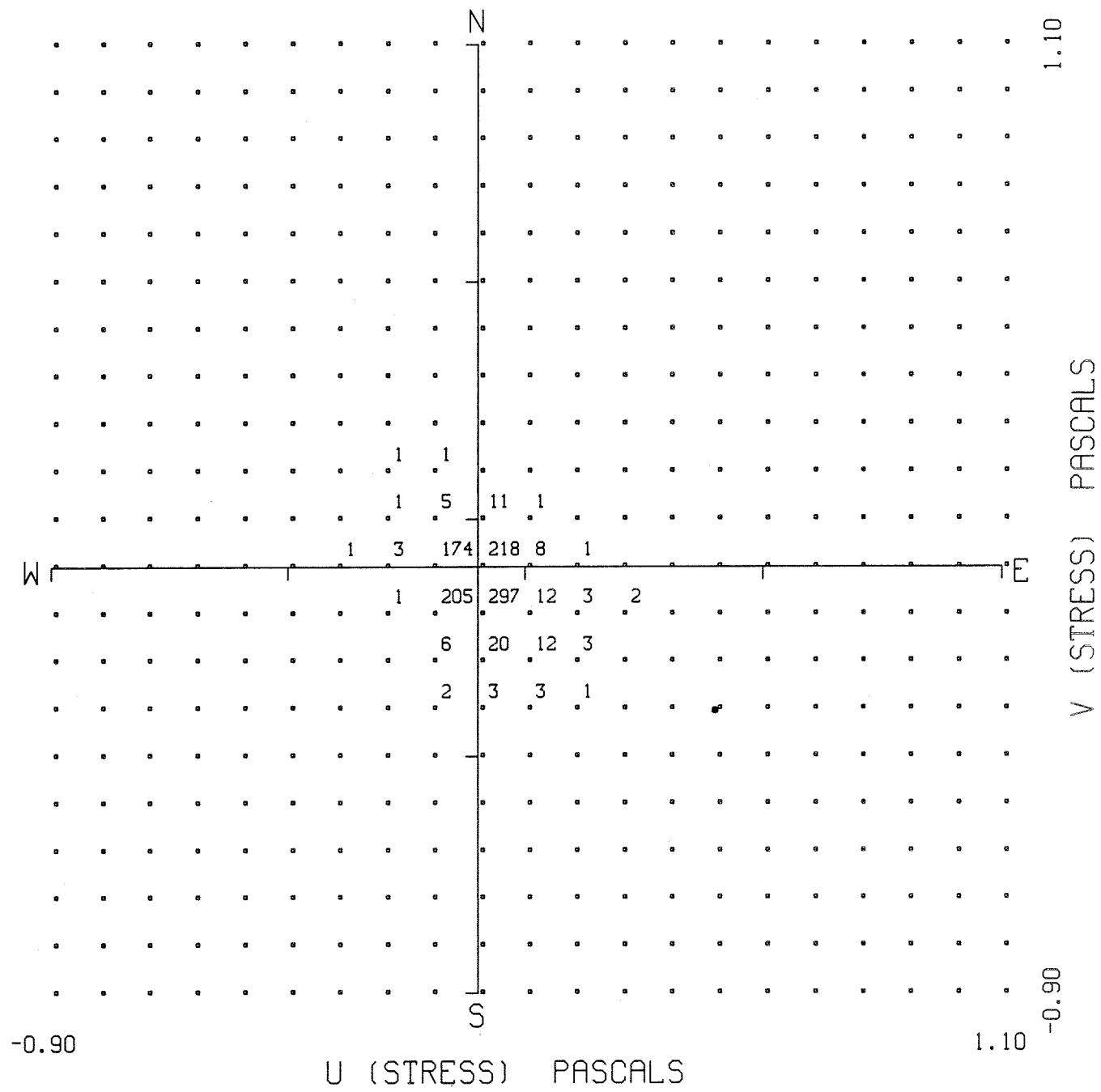


FREQUENCY DISTRIBUTION PLOT

YARMOUTH

START TIME 1/11/1985 4: 0: .0 GMT

FREQUENCY UNIT 0.1%



FREQUENCY DISTRIBUTION PLOT

YARMOUTH

START TIME 1/11/1985 4: