

NOAA Technical Memorandum ERL PMEL-3

CURRENT METER MEASUREMENTS  
IN THE GULF OF ALASKA - PART I  
RESULTS FROM NEGOA MOORINGS 60, 61, 62A

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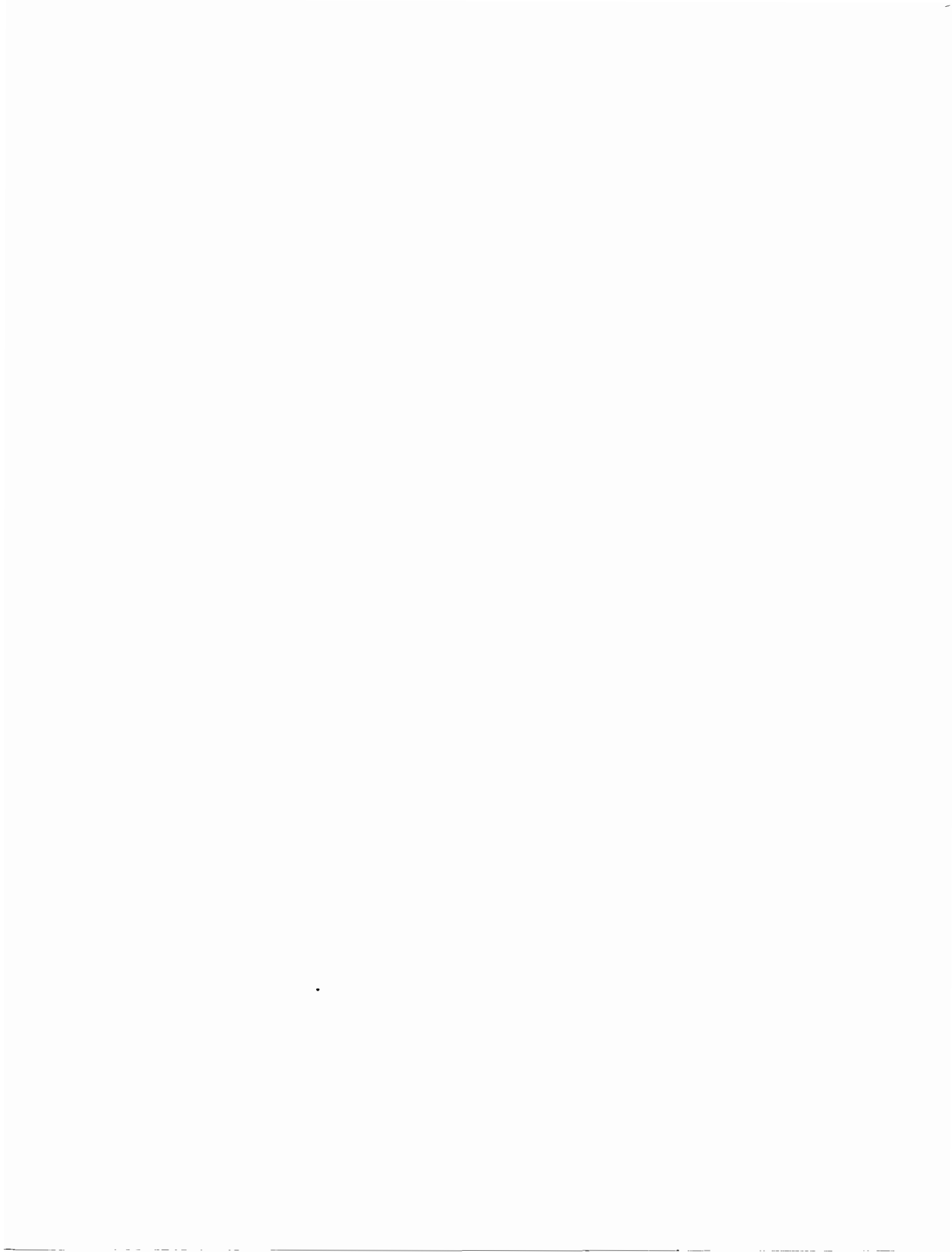


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Three moorings in the physical oceanographic study of the Northeast Gulf of Alaska, deployed in the last half of 1974, are described. Time series analysis of the moorings with a recently developed Aanderaa processing system is described, and time series analysis plots are presented.

1. INTRODUCTION

During 1974, the Institute of Marine Sciences of the University of Alaska and the Pacific Marine Environmental Laboratory (PMEL) of NOAA began a joint study of the physical oceanography of the Northeast Gulf of Alaska (NEGOA). Three moorings were deployed on the continental shelf. The purpose of these initial moorings is to begin describing the vertical and time variability of the currents in three areas of the shelf which have differing topographical environments. Figure 1 shows the positions and dates of the three moorings.

This memorandum is a summary of the data collected of these three moorings. The computer processing is briefly discussed, then the moorings are described, including a summary of the performance of the instruments. The data summaries are found in the appendices.

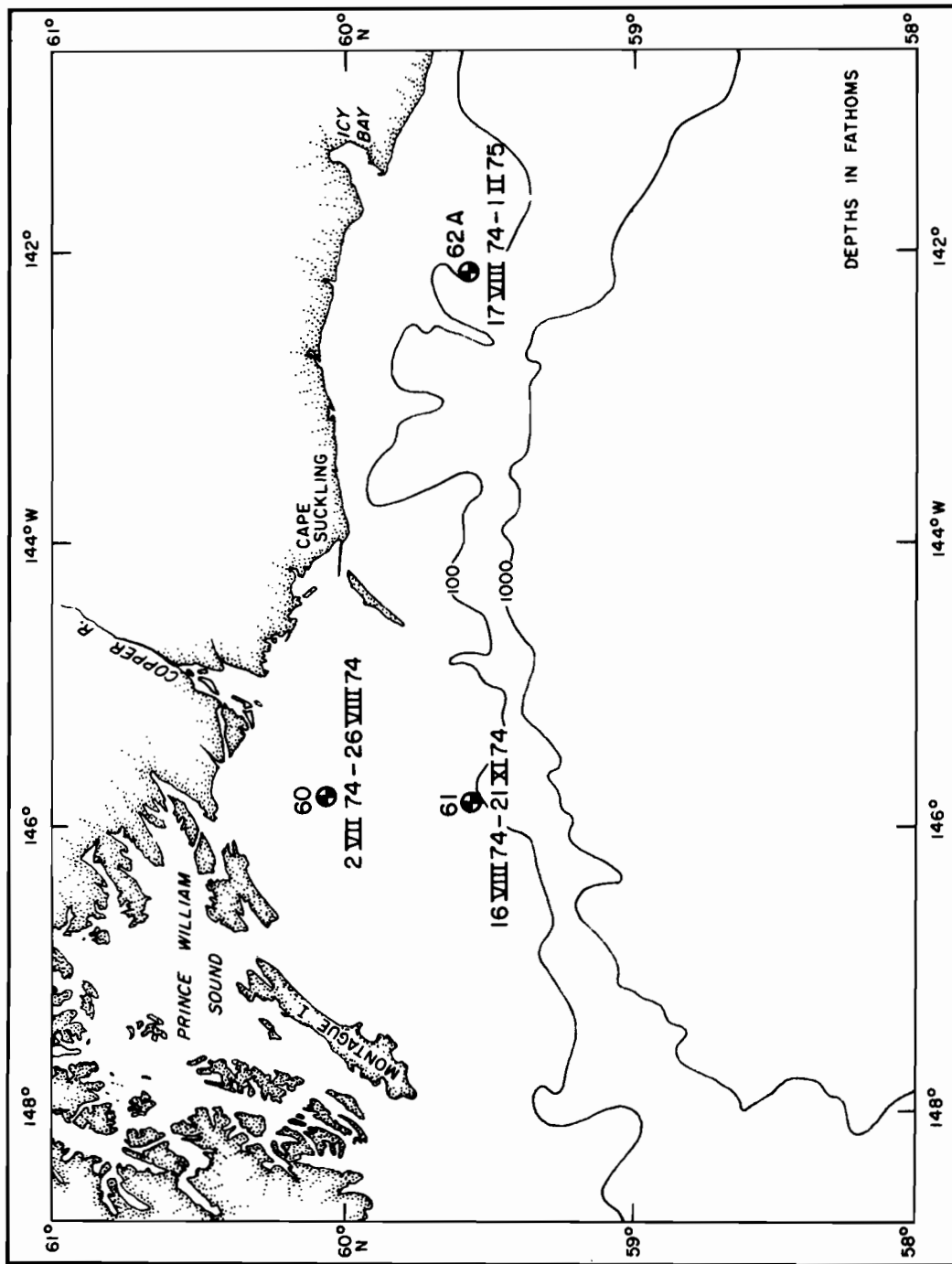


Figure 1. Location of NEGOA moorings 60, 61, 62A showing dates of deployment.

## 2. DATA PROCESSING OF AANDERAA CURRENT METER RECORDS

Figure 2 is a schematic of the data processing procedure. The original data tape is removed from the current meter without rewinding. This original tape is then re-recorded backwards onto a stronger 1.5 mil working tape which is used in all future data processing operations. The delicate 0.5 mil original Aanderaa tape is stored, and need not be replayed under normal circumstances. The purpose of this process is to minimize handling of the original tape.

The working tape is then played into the PMEL tape translating facility which generates a computer-compatible 7-track tape (556 bpi). The reader detects incorrect bit counts in any words, and an incorrect number of words in any data record. (A full discussion of the intricacies of the reader facility including software will appear in a forthcoming technical report.) At the time of translation, the data stream is checked by a bit display module and can be plotted on an analog chart.

Once the Aanderaa working tape has been translated onto a computer tape, two programs are required to edit the data for time-series analysis. The first program, AANCMRD, takes the first look at the data. As each data record is read, calibration equations are applied to the raw binary data giving physical values of speed, direction, etc. At this time, any irregularities from "dead zone" readings in speed or direction are noted and interpolated across. Also, magnetic deviation correction is applied, resulting in "true" compass directions, and all detected errors or interpolations are flagged. A binary tape with the processed data is created as well as a printer output. A sample of the printout is shown in Figure 3. On the

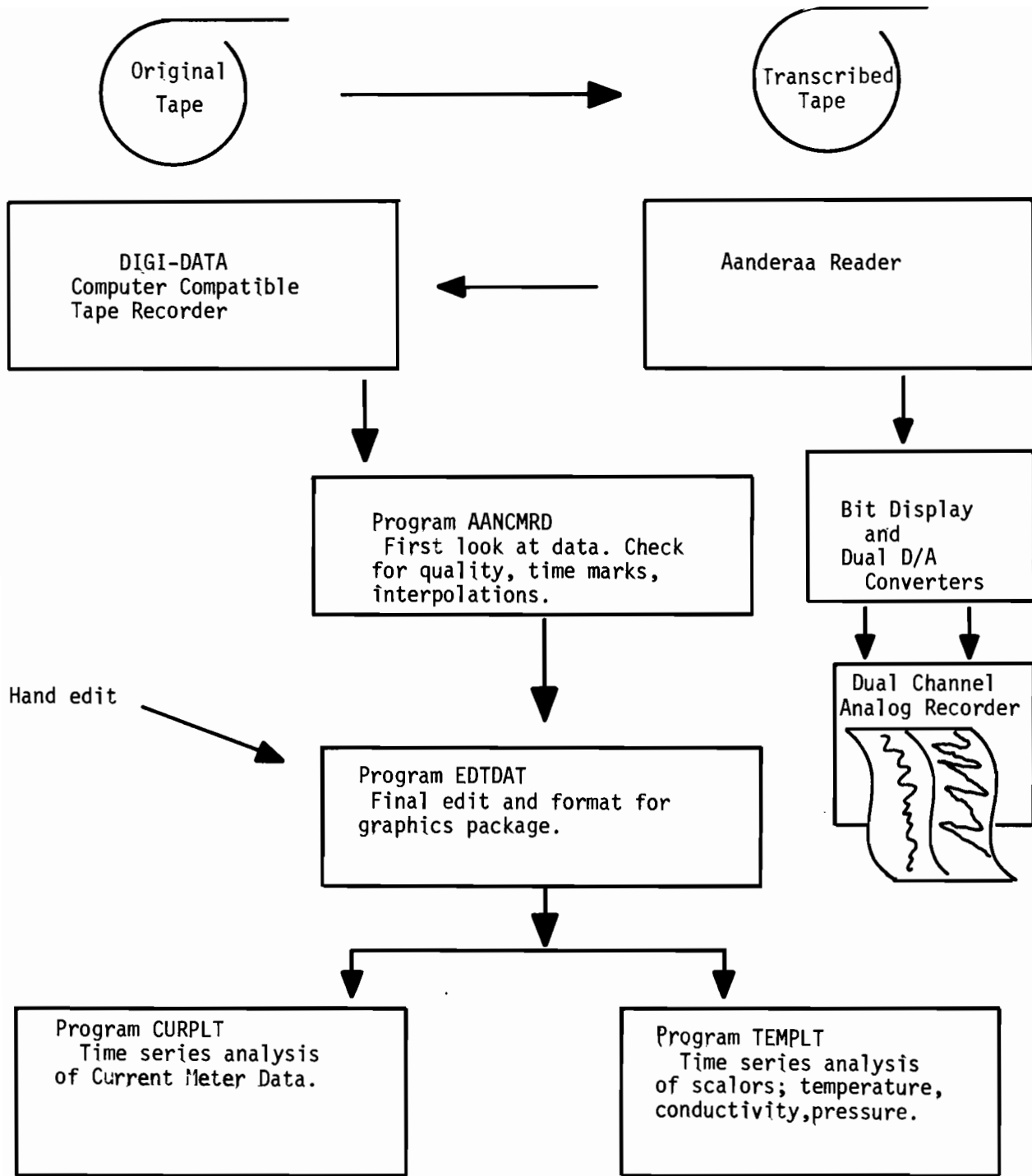


Figure 2. Block diagram of Aanderaa data processing.



RECORD	CALCULATED DATA				INTERPOLATION				RAW DATA				ERROR TYPES				
	SPEED	JIR	TEMP	COND	DEPTH	FLAG	SPEED	AIR	TEMP	COND	DEPTH	REF	A	B	C	D	E
1	65.45	53.25	20.693	.067	-.30	0	468	27	1023	2	48	0+2	0	0	0	0	0
2	1.50	51.52	28.693	.857	-.30	0	468	22	1023	2	48	0+2	0	0	0	0	0
3	1.50	51.17	28.693	.067	-.30	0	468	21	1023	2	48	0+2	0	0	0	0	0
4	1.50	325.11	21.693	.157	-.30	0	468	806	1023	2	48	0+2	0	0	0	0	0
5	1.50	208.90	28.465	.367	-.45	0	468	473	1013	2	47	0+2	0	0	0	0	0
6	1.50	18.15	17.454	.057	-.46	0	468	950	881	2	47	0+2	0	0	0	0	0
7	1.50	138.86	16.222	.867	-.46	0	468	270	827	2	47	0+2	0	0	0	0	0
8	1.50	326.16	15.674	.167	-.30	0	468	809	883	2	48	0+2	0	0	0	0	0
9	1.50	309.76	15.195	.167	-.30	0	468	752	782	2	48	0+2	0	0	0	0	0
10	1.50	329.30	14.785	.067	-.30	0	468	810	764	2	48	0+2	0	0	0	0	0
11	1.50	18.13	14.400	.067	.45	0	468	935	751	2	53	0+2	0	0	0	0	0
12	26.37	162.25	14.306	34.425	.75	0	658	202	743	511	55	0+2	0	0	0	0	0
13	37.44	247.29	9.504	35.235	24.47	0	913	503	536	523	211	0+2	0	0	0	0	0
14	13.48	222.86	3.943	35.585	24.17	0	1022	513	552	527	209	0+2	0	0	0	0	0
15	22.89	224.25	18.132	33.775	23.71	1	159	517	568	531	206	0+2	0	0	0	0	0
16	29.38	248.34	3.744	35.437	23.25	0	363	506	543	526	203	0+2	0	0	0	0	0
17	31.83	219.95	3.743	35.372	22.80	0	681	562	552	528	200	0+2	0	0	0	0	0
18	33.62	227.29	18.048	35.775	22.50	0	836	583	556	531	198	0+2	0	0	0	0	0
19	33.88	257.76	18.884	36.450	22.84	1	23	613	593	541	195	0+2	0	0	0	0	0
20	32.39	275.21	18.656	36.112	21.53	0	249	663	583	536	192	0+2	0	0	0	0	0
21	28.15	219.50	18.782	36.112	21.28	0	444	618	585	536	190	0+2	0	0	0	0	0
22	24.87	275.21	9.949	35.572	21.13	0	615	663	552	528	189	0+2	0	0	0	0	0
23	23.50	298.91	18.086	35.787	21.13	0	775	700	550	530	189	0+2	0	0	0	0	0
24	22.52	312.24	3.533	35.382	21.13	0	938	769	534	524	189	0+2	0	0	0	0	0
25	22.82	319.88	3.478	35.235	21.13	1	55	791	531	523	189	0+2	0	0	0	0	0
26	23.89	312.90	9.185	34.965	21.13	0	213	771	515	519	189	0+2	0	0	0	0	0
27	22.27	306.96	9.151	34.965	21.43	0	365	754	517	519	191	0+2	0	0	0	0	0
28	21.14	316.84	9.265	35.180	21.89	0	509	780	522	521	194	0+2	0	0	0	0	0
29	23.50	312.91	3.219	35.332	21.34	0	678	771	528	528	197	0+2	0	0	0	0	0
30	21.84	316.18	8.991	34.838	21.65	0	813	763	518	517	199	0+2	0	0	0	0	0
31	19.72	303.82	9.988	34.762	21.26	0	939	745	506	516	203	0+2	0	0	0	0	0
32	16.46	303.82	8.672	34.563	23.61	1	7	745	496	513	204	0+2	0	0	0	0	0
33	14.21	316.39	8.717	34.627	23.86	0	188	781	498	514	207	0+2	0	0	0	0	0
34	13.25	352.33	8.193	34.222	23.86	0	186	804	475	508	207	0+2	0	0	0	0	0
35	11.44	321.97	8.261	34.238	24.17	0	259	797	470	509	209	0+2	0	0	0	0	0
36	3.84	294.85	3.456	34.432	24.17	0	328	717	487	512	209	0+2	0	0	0	0	0
37	12.16	301.73	9.444	34.425	24.17	0	393	739	486	511	209	0+2	0	0	0	0	0
38	12.98	328.92	5.581	34.492	24.17	0	482	794	492	512	209	0+2	0	0	0	0	0
39	3.56	323.36	18.189	35.775	24.17	0	541	801	559	531	209	0+2	0	0	0	0	0
40	8.47	326.85	18.747	36.517	23.82	0	592	811	587	542	208	0+2	0	0	0	0	0
41	18.38	209.60	18.793	36.453	23.71	0	657	475	589	541	206	0+2	0	0	0	0	0
42	21.63	228.77	18.314	35.377	23.41	0	797	507	568	534	204	0+2	0	0	0	0	0

rotor released, unit at surface  
rotor released, unit at depth

Figure 3. Typical output from Program AACMRD.

right hand are the Aanderaa binary coded raw data, and on the left hand are the calculated physical values.

The printout from AANCMRD is carefully analyzed for any systematic errors. Also, the validity of all detected errors is appraised. Time-marks taken from a mooring log are compared to the recorded data (for example, Fig. 3 shows change in values when the current meter enters the water, with the prior release of the rotor).

The second program, EDTDAT, completes the data editing. This program accepts hand editing via data cards, and interpolates or deletes any desired error records. Figure 4 is a sample of the final output of this program. Each sample is given a true GMT time. Then the data are formatted onto another binary file, ready for time-series analysis and plotting by the standard PMEL time-series analysis packages, CURPLT and TEMPLT (Halpern et al., 1974).

These packages provide a complete overview of the available data. The program CURPLT performs a time-series analysis of current vectors in a rectangular coordinate system and produces Calcomp plots of histogram statistics, time-series, progressive vector diagrams, and spectra (u, v, power and rotary spectra). TEMPLT performs one-dimensional time-series analysis of any scalars such as temperature, conductivity, or pressure. Again, Calcomp plots of histogram, time-series, and power spectrum are produced.

REC. NO.	TIME	DATE	J-VEL, CM/SEC	V-VEL, CM/SEC	SPEED CM/SEC	COMPASS DEGREES	TEMP, DEG. C	COND. MV/CM	DEPTH METERS
1	0336	2 JUL 74	-2.235	16.852	17.646	342.742	5.048	27.729	1023.000
2	0346	2 JUL 74	-2.779	7.192	7.710	330.075	5.048	27.729	1023.000
3	0356	2 JUL 74	-2.423	6.093	7.296	340.633	5.026	27.729	1023.000
4	0406	2 JUL 74	-2.528	6.404	6.802	339.523	5.003	27.729	1023.000
5	0416	2 JUL 74	-1.767	6.222	6.468	344.148	5.083	27.729	1023.000
6	0426	2 JUL 74	-2.594	6.048	6.468	339.527	5.026	27.729	1023.000
7	0436	2 JUL 74	-2.102	5.647	6.054	330.075	5.003	27.729	1023.000
8	0446	2 JUL 74	-1.341	5.426	5.640	344.148	5.003	27.729	1023.000
9	0456	2 JUL 74	-1.834	6.021	6.054	353.992	4.981	27.666	1023.000
10	0506	2 JUL 74	-1.778	5.169	5.226	351.531	4.958	27.666	1023.000
11	0516	2 JUL 74	1.368	4.841	5.226	22.117	4.958	27.666	1023.000
12	0526	2 JUL 74	-1.577	4.799	4.812	355.750	4.958	27.666	1023.000
13	0536	2 JUL 74	1.333	4.123	4.398	20.359	4.958	27.666	1023.000
14	0546	2 JUL 74	2.312	3.296	4.398	41.453	4.958	27.666	1023.000
15	0556	2 JUL 74	3.133	2.453	3.984	52.000	4.958	27.666	1023.000
16	0606	2 JUL 74	3.905	1.102	3.984	72.742	4.958	27.666	1023.000
17	0616	2 JUL 74	3.393	-0.876	3.984	88.914	4.958	27.666	1023.000
18	0626	2 JUL 74	3.553	-1.598	3.984	113.523	4.958	27.666	1023.000
19	0636	2 JUL 74	2.551	-2.380	3.570	131.005	4.958	27.666	1023.000
20	0646	2 JUL 74	2.300	-2.730	3.570	139.091	4.958	27.666	1023.000
21	0656	2 JUL 74	2.375	-3.199	3.984	143.486	4.901	27.729	1023.000
22	0706	2 JUL 74	2.578	-3.563	4.398	144.189	4.981	27.729	1023.000
23	0716	2 JUL 74	3.798	-4.177	5.640	137.781	4.981	27.729	1023.000
24	0726	2 JUL 74	2.592	-5.423	6.054	153.682	5.003	27.729	1023.000
25	0736	2 JUL 74	3.367	-6.511	7.710	149.031	5.003	27.729	1023.000
26	0746	2 JUL 74	4.128	-6.512	7.710	147.625	5.026	27.729	1023.000
27	0756	2 JUL 74	4.121	-7.478	8.530	151.141	5.003	27.729	1023.000
28	0806	2 JUL 74	5.636	-7.993	9.780	144.012	5.026	27.729	1023.000
29	0816	2 JUL 74	4.083	-8.465	9.366	154.656	5.026	27.729	1023.000
30	0826	2 JUL 74	4.164	-9.213	10.194	154.656	5.026	27.729	1023.000
31	0836	2 JUL 74	3.334	-10.506	11.022	162.391	5.026	27.729	1023.000
32	0846	2 JUL 74	4.784	-10.424	11.436	155.711	5.026	27.729	1023.000
33	0856	2 JUL 74	4.958	-12.538	13.586	150.075	5.026	27.729	1023.000
34	0906	2 JUL 74	4.848	-13.318	13.920	163.094	5.026	27.729	1023.000
35	0916	2 JUL 74	4.342	-12.123	13.092	157.020	5.026	27.729	1023.000
36	0926	2 JUL 74	2.966	-13.176	13.506	167.312	5.026	27.729	1023.000
37	0936	2 JUL 74	3.583	-14.326	14.748	166.258	5.003	27.666	1023.000
38	0946	2 JUL 74	2.805	-13.194	13.586	167.064	5.003	27.666	1023.000
39	0956	2 JUL 74	2.337	-13.714	13.920	170.125	5.003	27.666	1023.000

Figure 4. Typical output from Program EDTDAT.

### 3. THE MOORINGS

#### 3.1 NEG OA 60

Mooring NEG OA 60 (Fig. 5) was designed and installed by the Institute of Marine Sciences, University of Alaska. The mooring depth was approximately 100 meters, and the position was  $60^{\circ} 5.4'N$ ,  $145^{\circ} 40.7'W$ .

The subsurface mooring included 4 Aanderaa current meters located at 20, 30, 50 and 90 m depth. The sampling interval for the meters was 10 min. The mooring was deployed on 2 July 1974 and recovered in September. Because of weather problems, the meters were not recovered before the internal tapes had overrun.

During processing only the first 8000 data points (55.5 days) were considered, since weakening batteries began to generate excessive tape noise after this period. All four current meters produced clean readable tapes, and all sensors appear to have worked well.

#### 3.2 NEG OA 61

Mooring NEG OA 61 was installed by PMEL at  $59^{\circ} 34.2'N$ ,  $145^{\circ} 47.6'W$  in 173 m of water (Fig. 6). Five Aanderaa current meters were located at nominal depths of 20, 30, 50, 100 and 163 m depth. The sampling interval was 30 min, and all meters were operating on recovery. Table 1 shows the sensors included in the mooring and their performance.

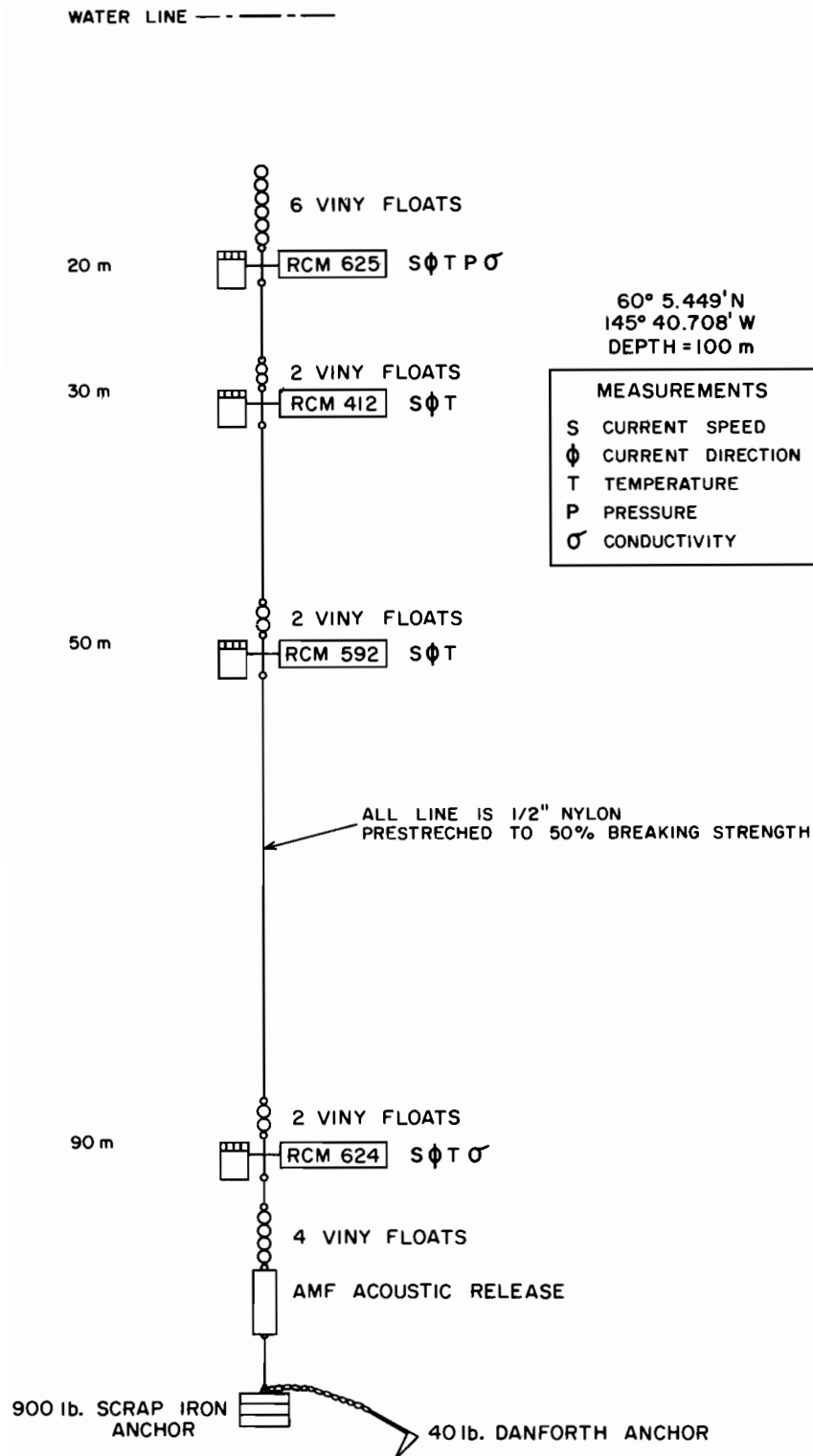


Figure 5. MOORING NEGOA 60

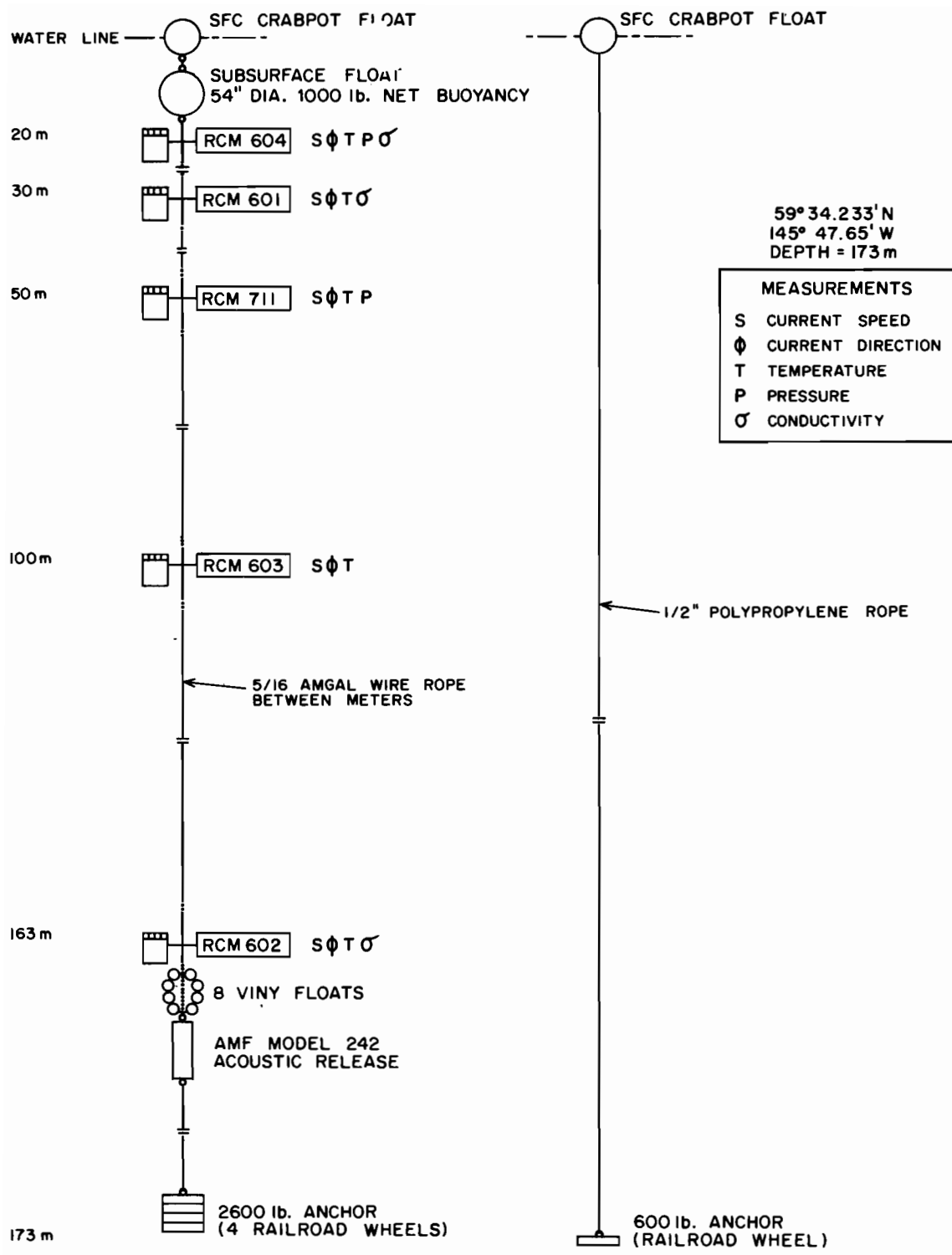


Figure 6. MOORING NEG OA 61

Table 1. Sensors Included in Mooring NEGOA 61

Current Meter	Nominal Depth (m)	S	$\phi$	T	P	C
604	20	✓	✓	✓	✓	✓
601	30	x	✓	✓	o	✓
711	50	✓	✓	✓	x	o
603	100	✓	✓	✓	o	o
602	163	✓	✓	✓	o	30%

✓ sensor apparently 100% operational  
 o sensor not included  
 x sensor failed totally  
 30% data recovered

### 3.3 NEGOA 62A

Mooring 62A was installed by PMEL at  $59^{\circ} 34.4'N$ ,  $142^{\circ} 10.5'W$  in 188 m of water (Fig. 7). Four Aanderaa current meters were located at 24, 50, 100 and 178 m depth. The sampling interval of the instruments was 30 min. This mooring is the first in a year long series of current meter data to be collected at this location. Table 2 shows the sensors included in the mooring and their performance.

Table 2. Sensors Included in Mooring NEGOA 62A

Current Meter	Nominal Depth (m)	S	$\phi$	T	P	C
598	20	✓	✓	✓	✓	✓
617*	50	25%	25%	25%	o	o
616†	100	60%	60%	60%	o	o
600	178	✓	✓	✓	o	✓

✓ sensor apparently 100% operational  
 o sensor not included

\* Even though the sensors appear operational this unit became defective after 30 days because of clock problems

† Excessive noise requires extensive interpolation.

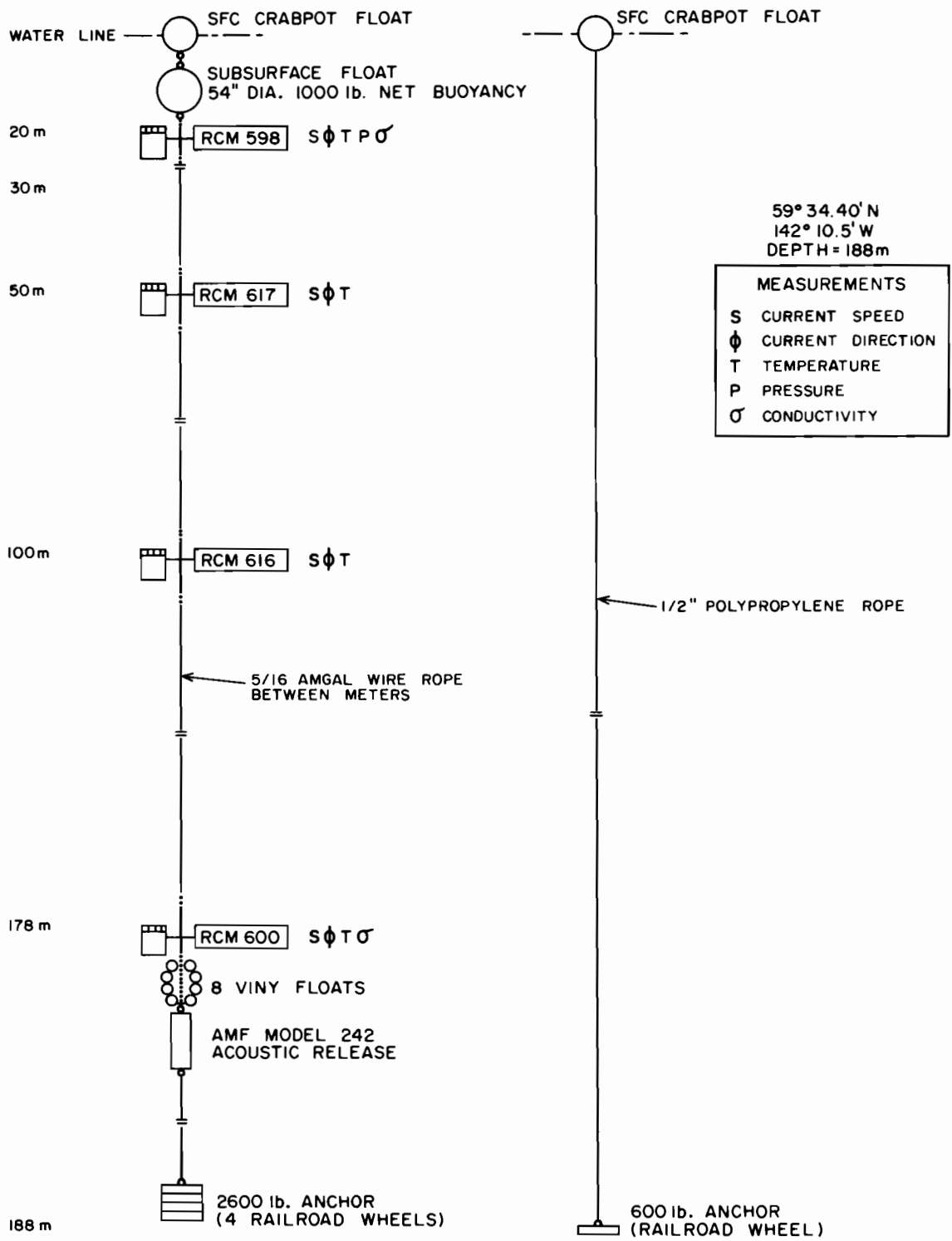


Figure 7. MOORING NEG OA 62A



#### 4. ACKNOWLEDGMENTS

The electronic work was excellently done by Roy Newman and David Spell. James Holbrook was most helpful in sharing his experience and programming expertise. The patience of the NEGQA Project Office was most appreciated.

## 5. REFERENCES

Halpern, D., J.R. Holbrook and R.M. Reynolds (1974). A Compilation of wind, current and temperature measurement: Oregon, July and August 1973. CUEA Technical Report 6, Department of Oceanography, University of Washington, 190 pp.

APPENDIX A  
TIME SERIES ANALYSIS OF DATA FROM  
NEGOA 60

- A.1. Current Meter 625 at 20 meters
- A.2. Current Meter 412 at 30 meters
- A.3. Current Meter 392 at 50 meters
- A.4. Current Meter 624 at 90 meters

A.1. TIME SERIES ANALYSIS Current Meter 625 Nominal Depth: 20m  
 Part 1 of 2; 2 July - 1 August 1974

Mooring Designation NEGOA 60

Location: 60° 5.4'N 145° 47.7'W

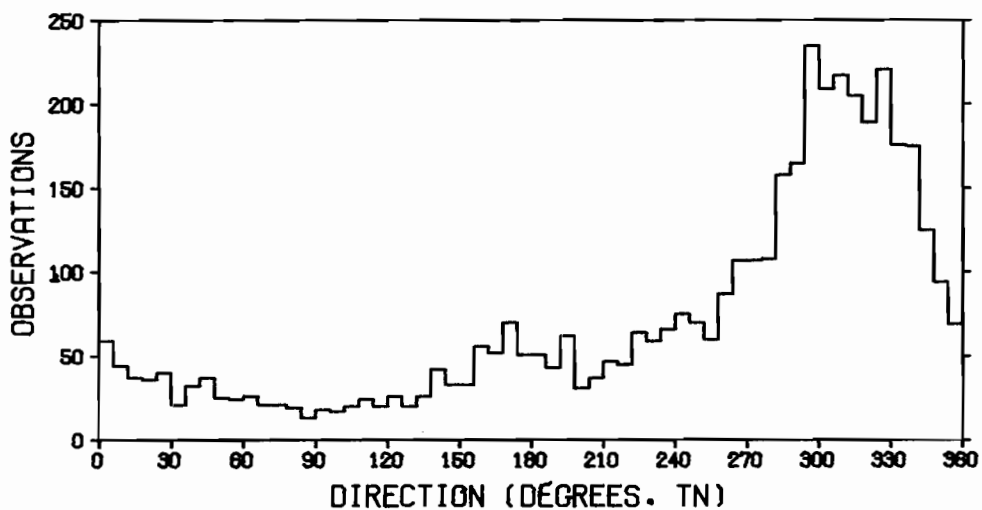
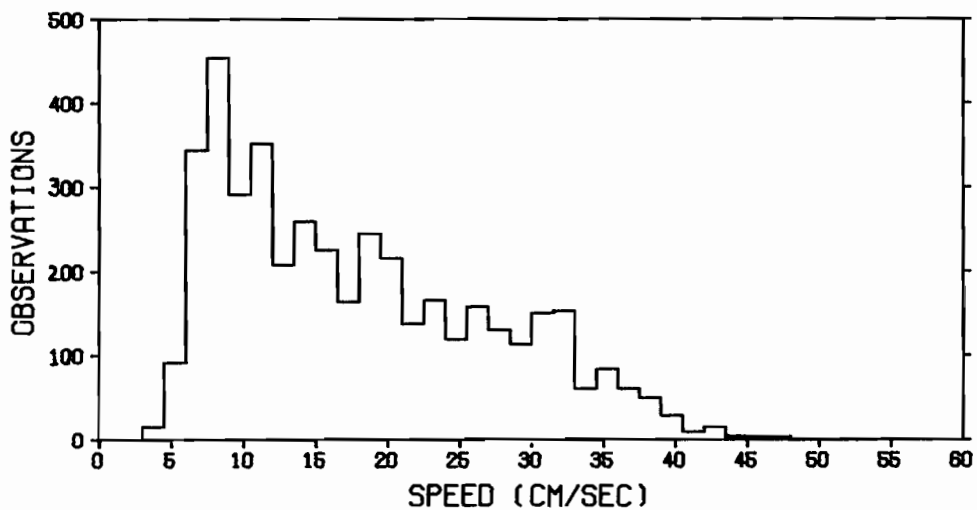
Sensors: Speed, Direction, Temperature, Pressure, Conductivity

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	17.94	87.33	9.34	.629	2.44	54.08	1.50
U	-8.96	141.45	11.89	-.017	2.79	29.42	-46.28
V	5.26	159.69	12.64	-.259	2.95	41.46	-36.56

S = SPEED

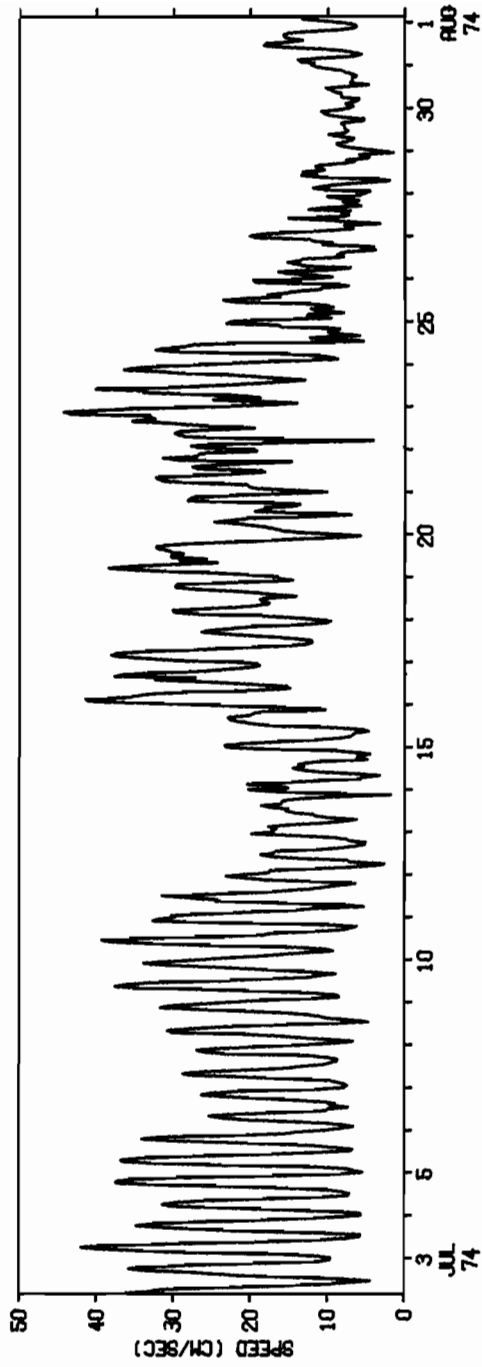
U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U

V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



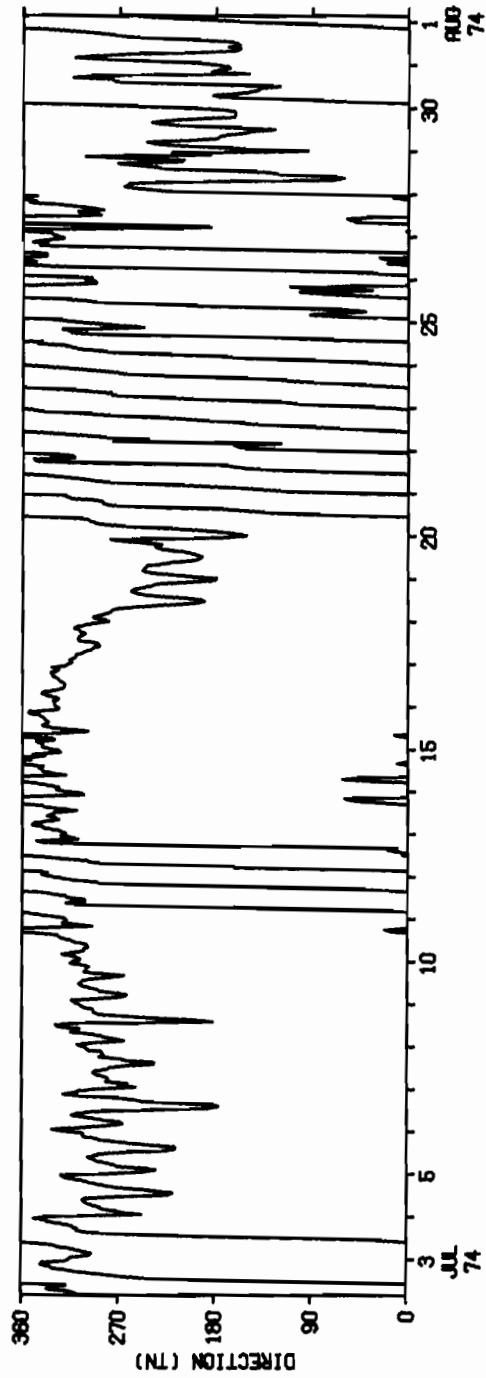
A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 20.0 METERS.



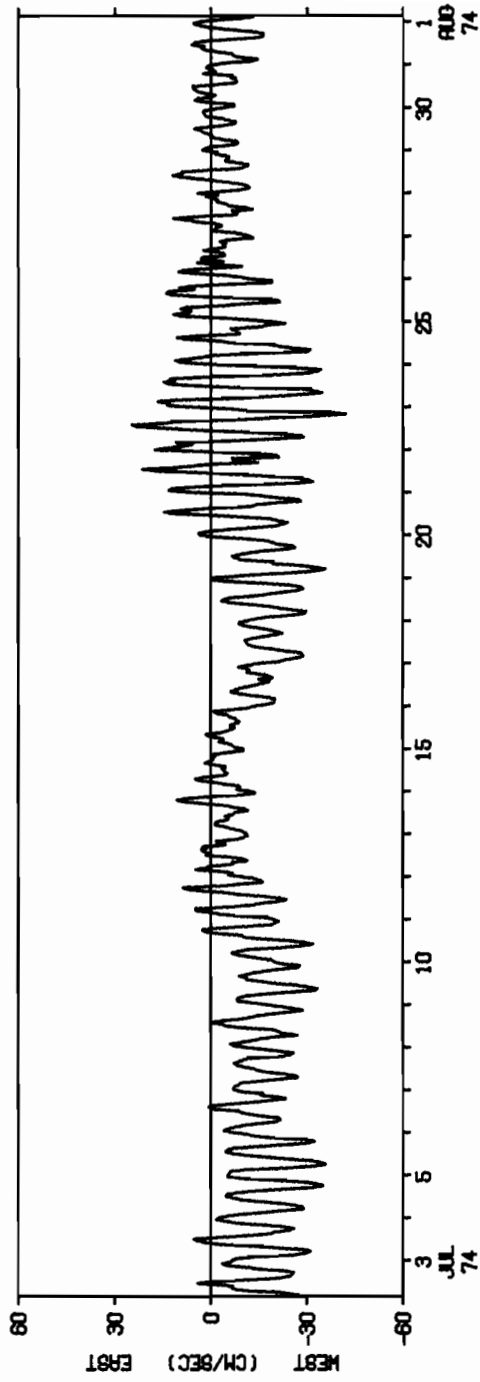
A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 20.0 METERS.



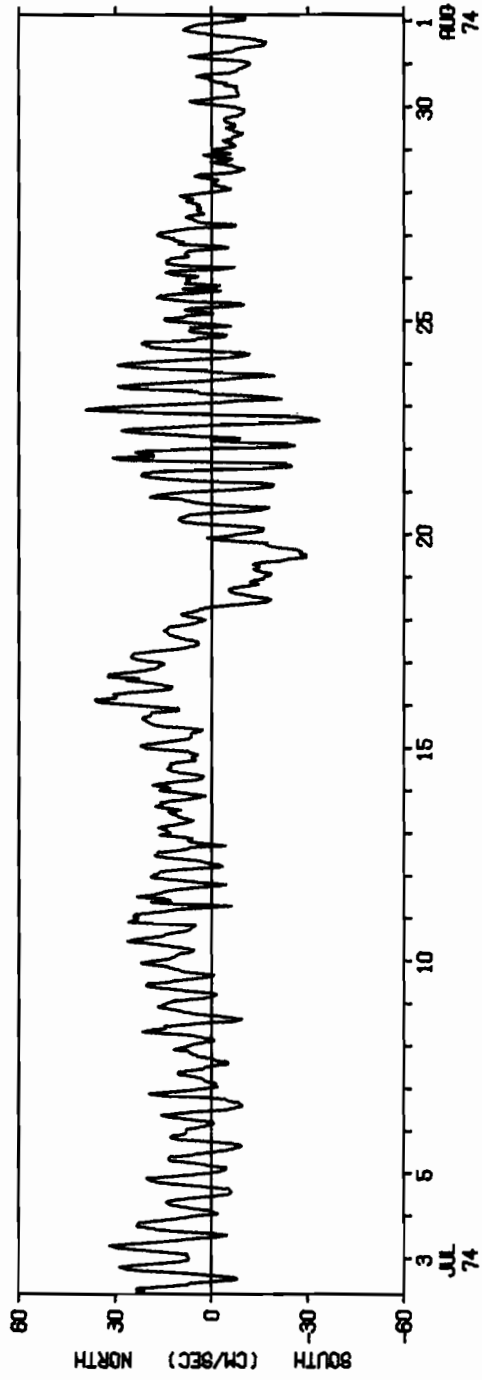
A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.



A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

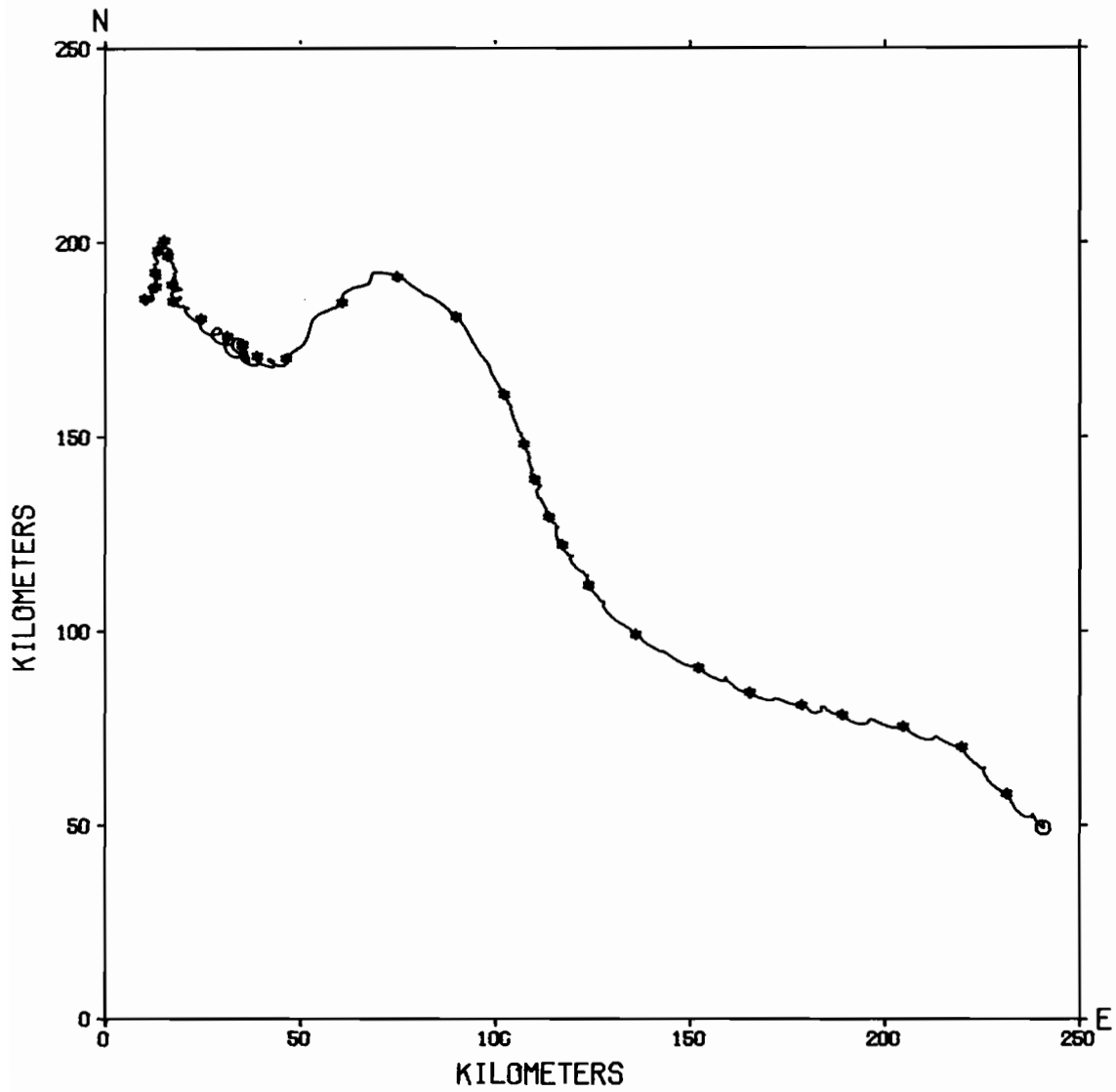
HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.



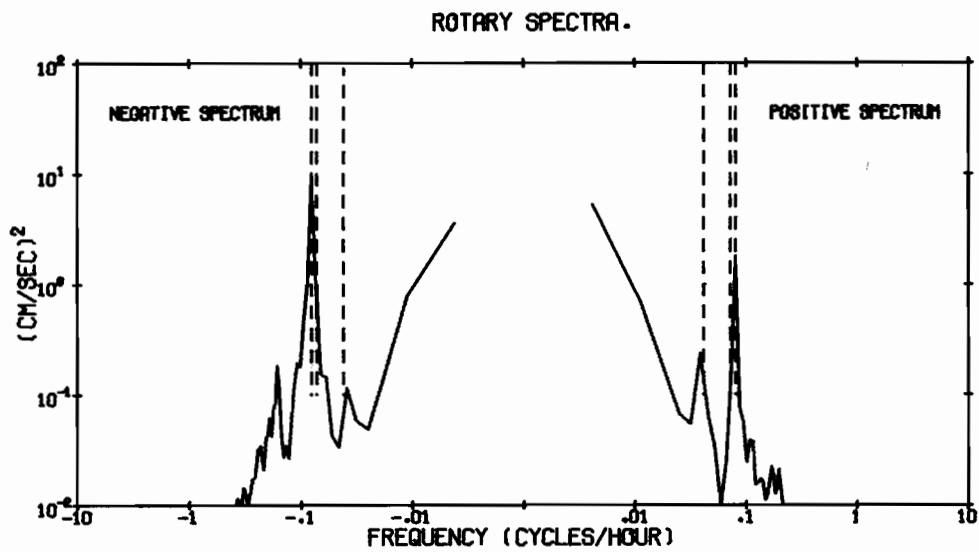
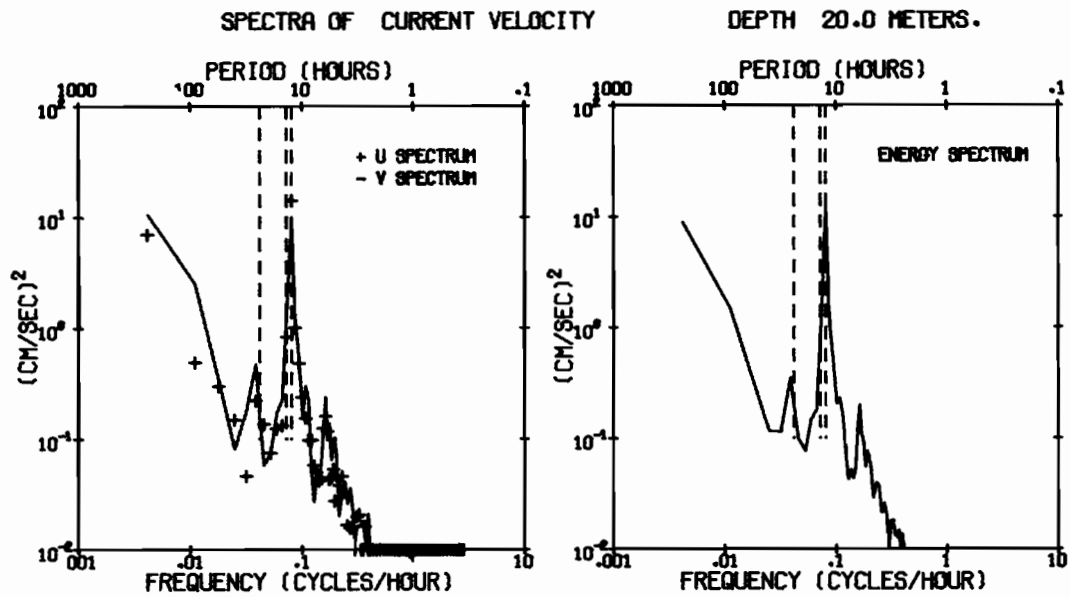


A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 60  
OBSERVATION PERIOD 30.0 DAYS FROM 0330 GMT 2 JUL 74.  
DEPTH 20.0 METERS.



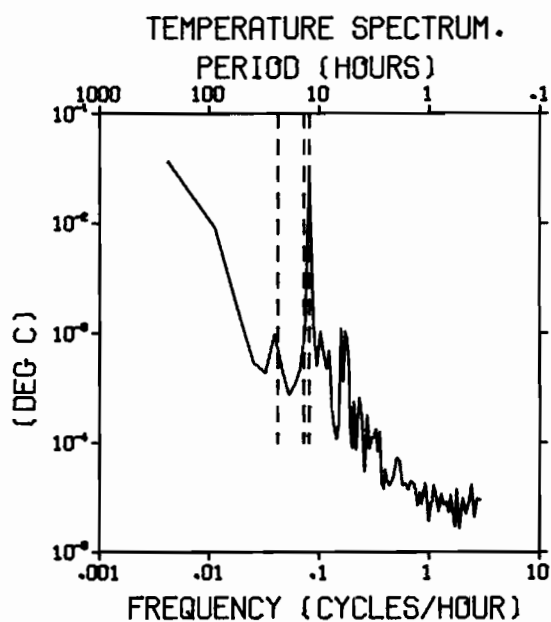
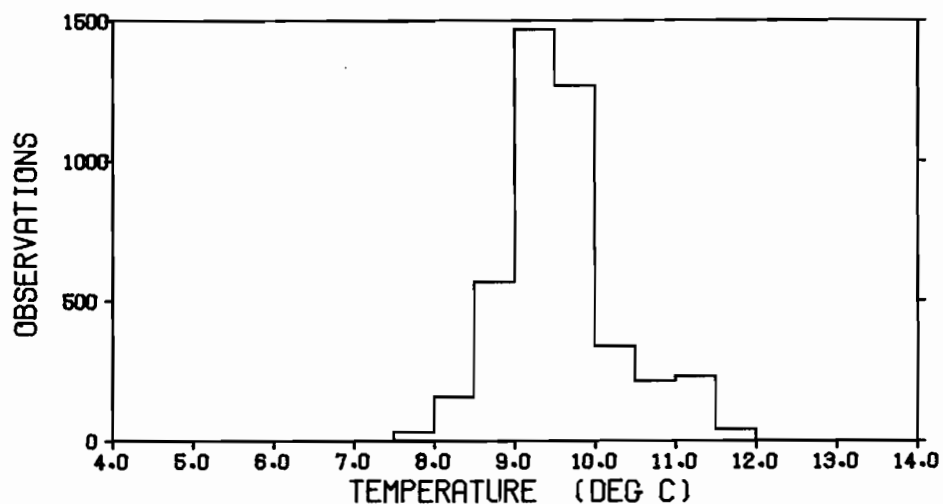
A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 1 of 2 (Continued)



A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 1 of 2 (Continued)

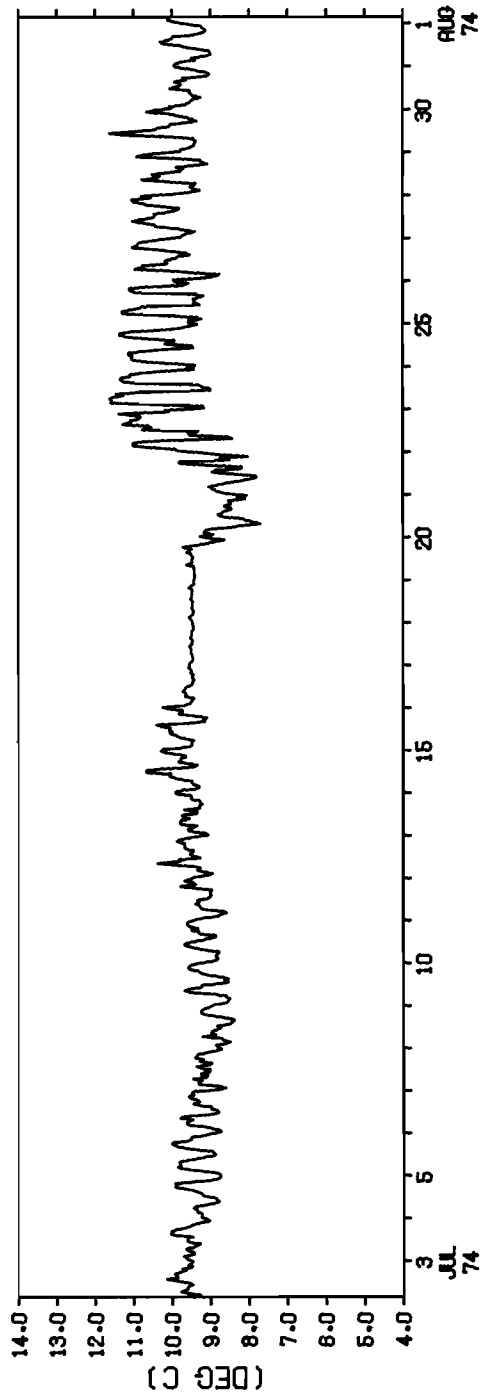
TEMPERATURE STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 4320  
OBSERVATION PERIOD 30.0 DAYS FROM 0330 GMT 2 JUL 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
9.57	.50	.71	.68	3.86	12.17	7.29



A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

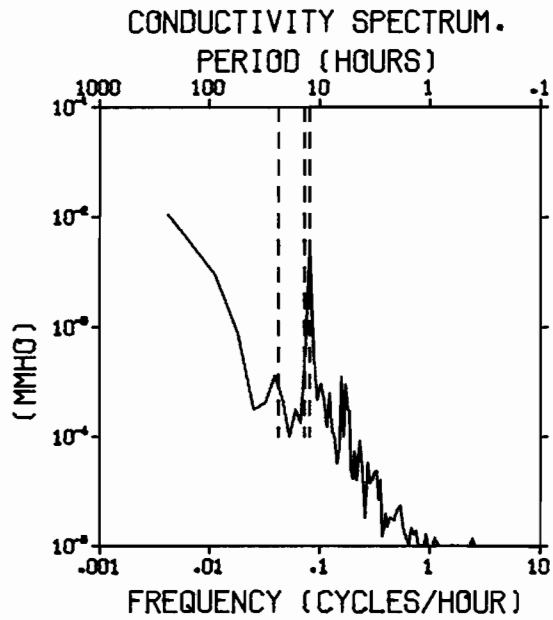
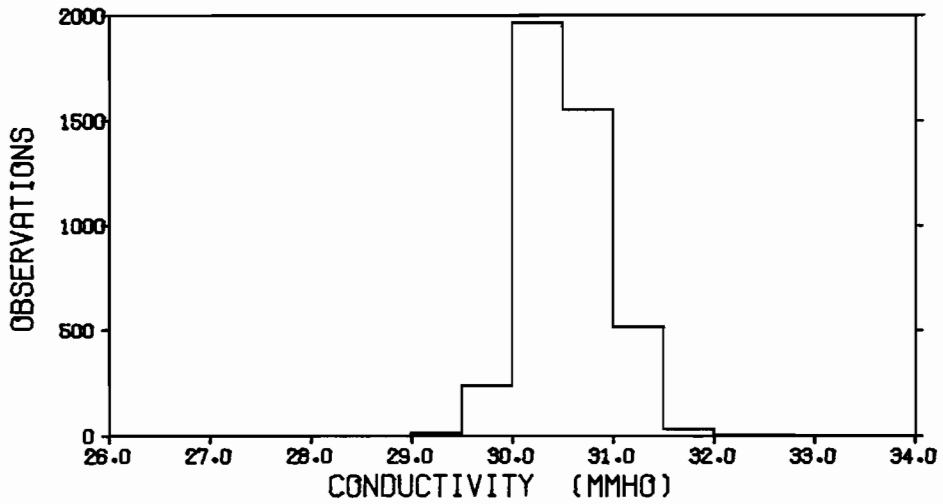
HOURLY AVERAGES OF TEMPERATURE DEPTH 20.0 METERS.



A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 1 of 2 (Continued)

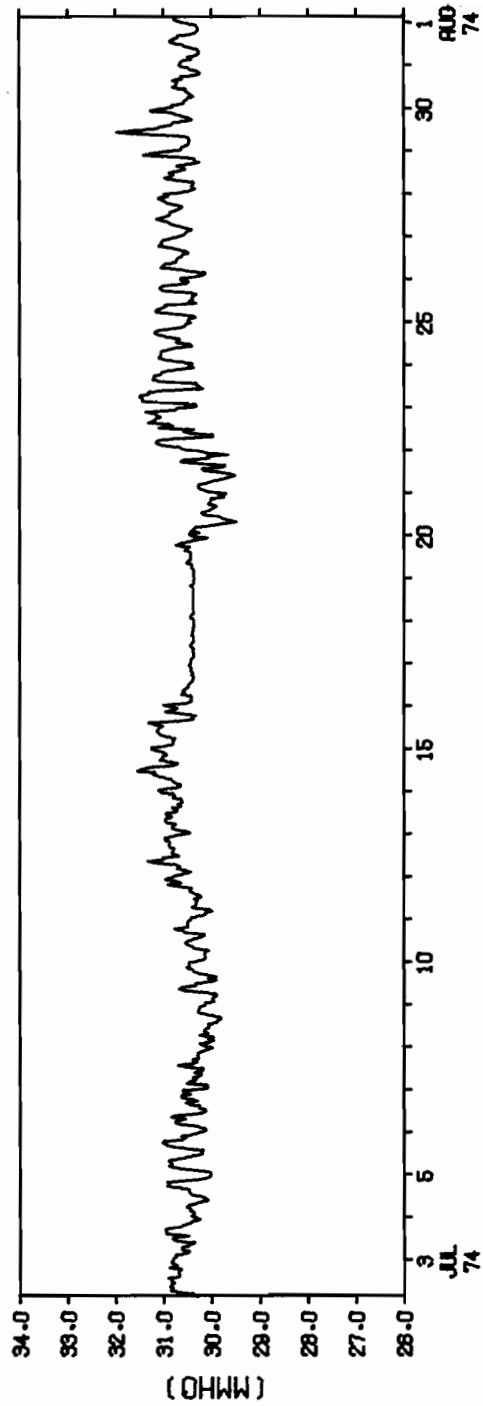
CONDUCTIVITY STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
DEPTH 20.0 METERS            NUMBER OF OBSERVATIONS = 4320  
OBSERVATION PERIOD 30.0 DAYS FROM 0330 GMT    2 JUL 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
30.55	.15	.38	.21	3.35	32.67	29.16



A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

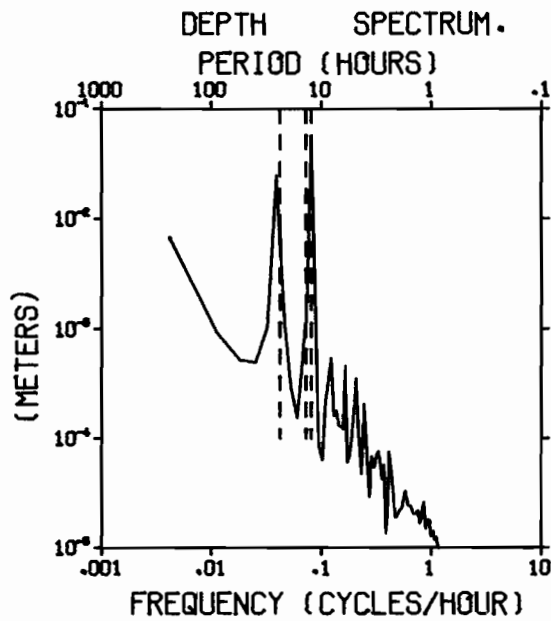
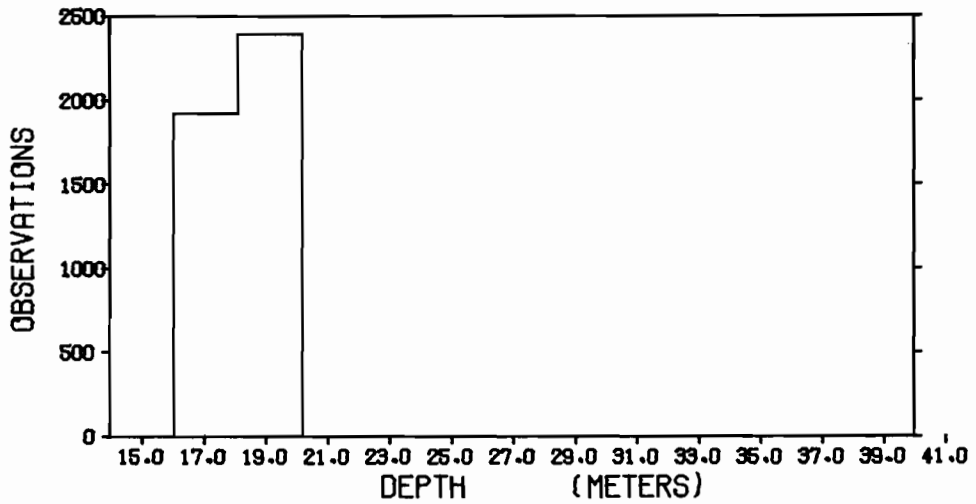
HOURLY AVERAGES OF CONDUCTIVITY DEPTH 20.0 METERS.



A.1. TIME SERIES ANALYSIS Current Meter 625  
 Part 1 of 2 (Continued)

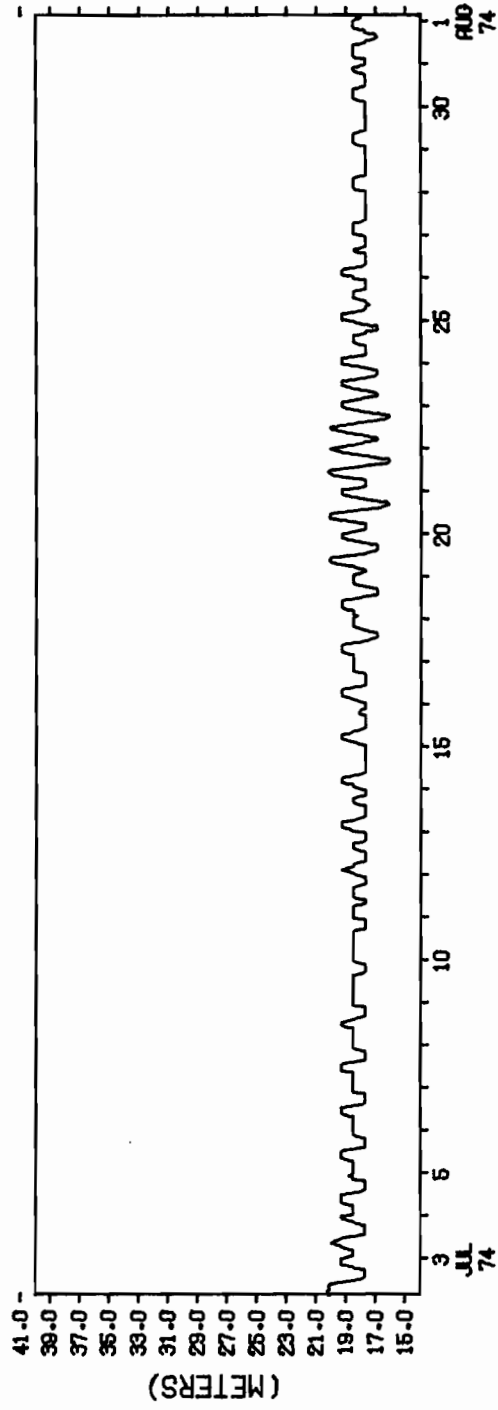
DEPTH STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
 DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 4320  
 OBSERVATION PERIOD 30.0 DAYS FROM 0330 GMT 2 JUL 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
19.15	.52	.72	.19	3.29	21.69	17.07



A.1. TIME SERIES ANALYSIS Current Meter 625 Part 1 of 2 (Continued)

HOURLY AVERAGES OF DEPTH 20.0 METERS.





A.1. TIME SERIES ANALYSIS Current Meter 625 Nominal Depth: 20m  
 Part 2 of 2; 1 August - 26 August 1974

Mooring Designation NEGOA 60

Location: 60° 5.4'N 145° 47.7'W

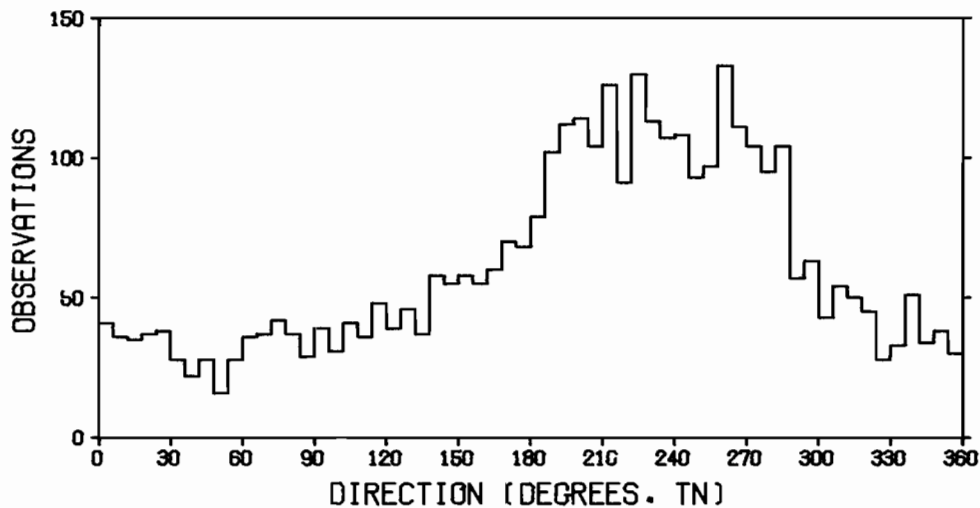
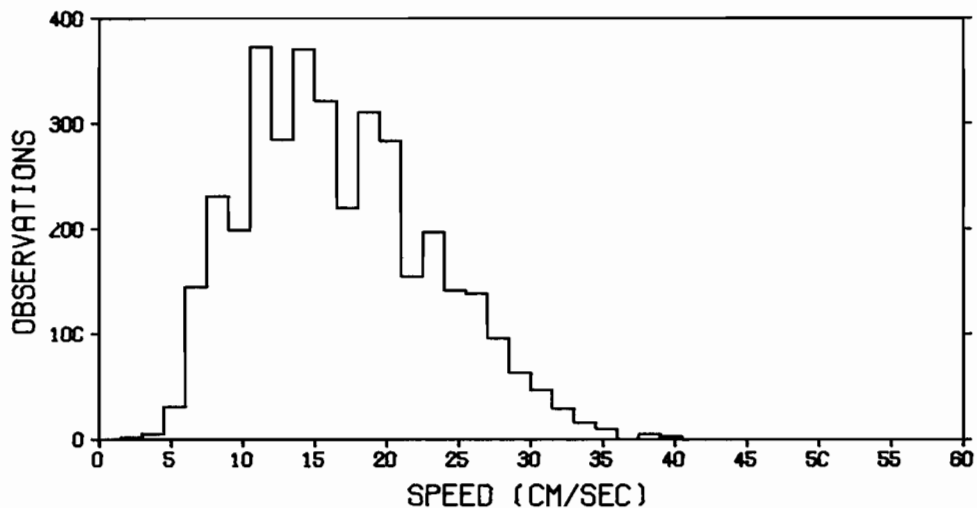
Sensors: Speed, Direction, Temperature, Pressure, Conductivity

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	16.76	41.41	6.43	.487	2.71	40.00	2.74
U	-5.16	144.18	12.01	.133	2.53	28.80	-39.56
V	-4.06	134.96	11.62	.208	2.48	30.70	-37.49

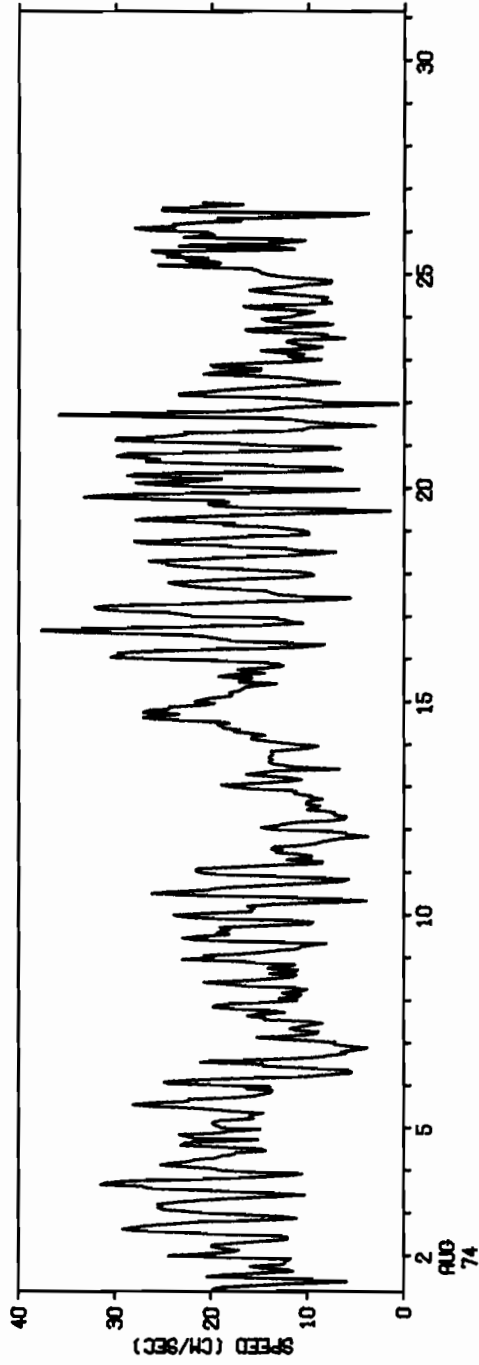
S = SPEED

U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U

V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V

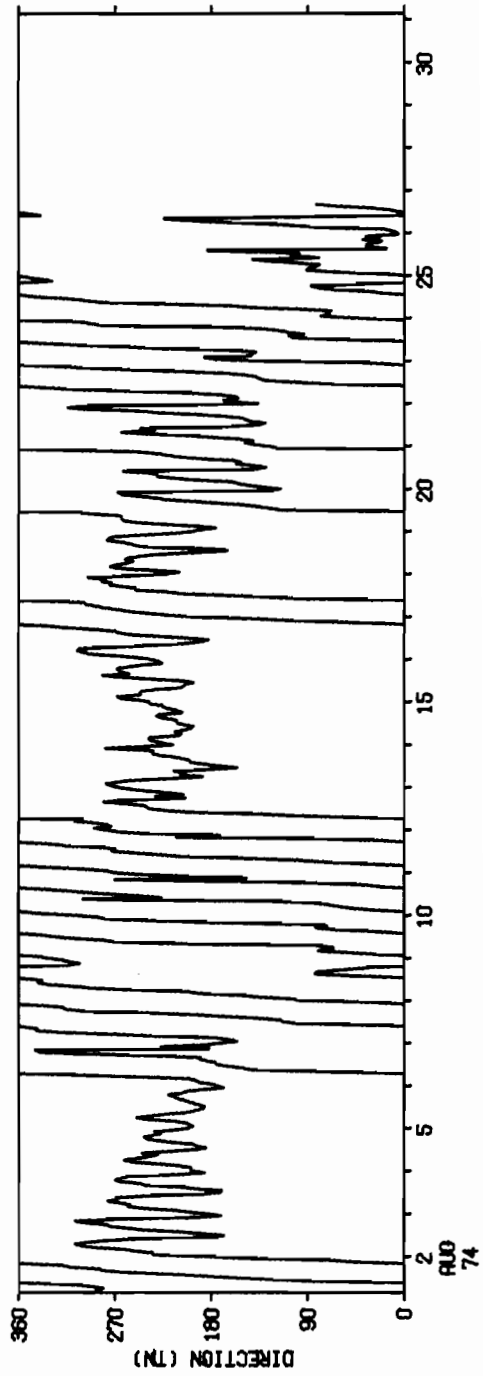


HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 20.0 METERS.



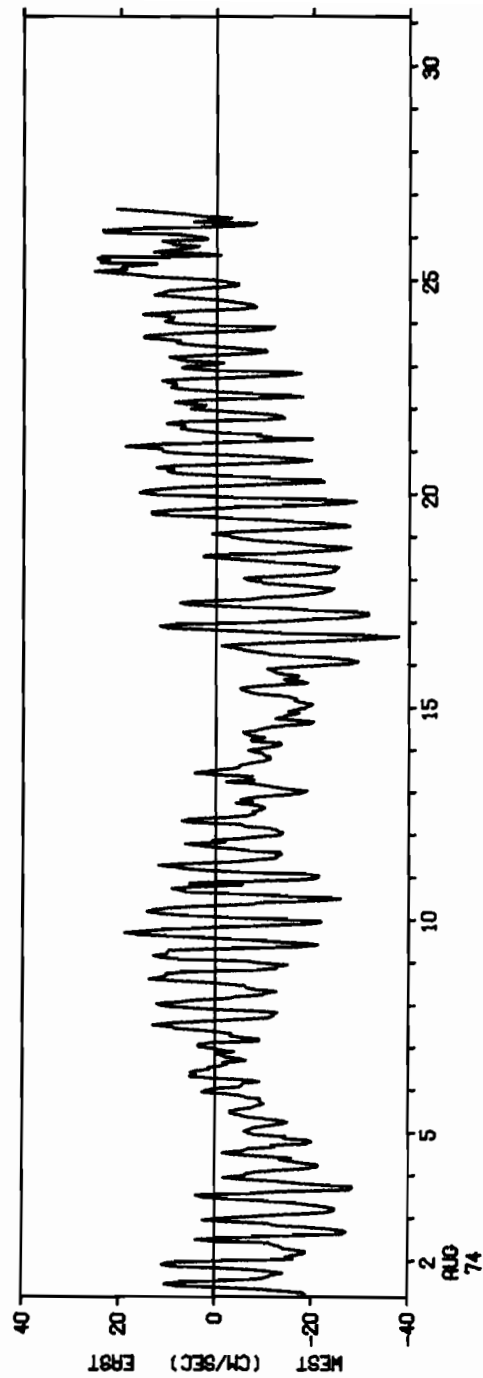
A.1. TIME SERIES ANALYSIS Current Meter 625 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 20.0 METERS.



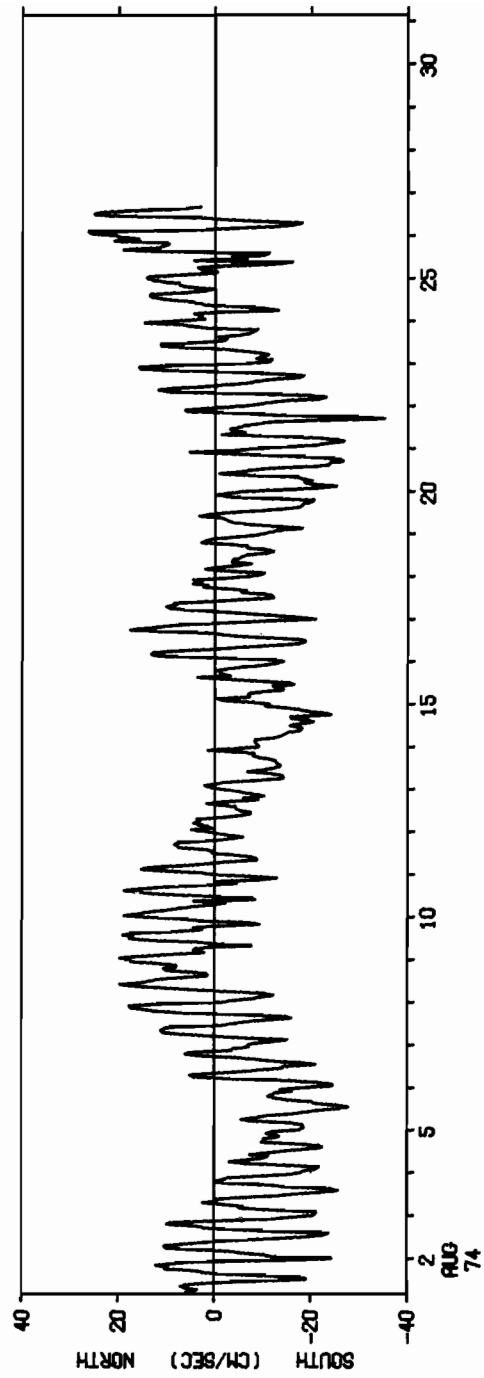
A.1. TIME SERIES ANALYSIS Current Meter 625 Part 2 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.



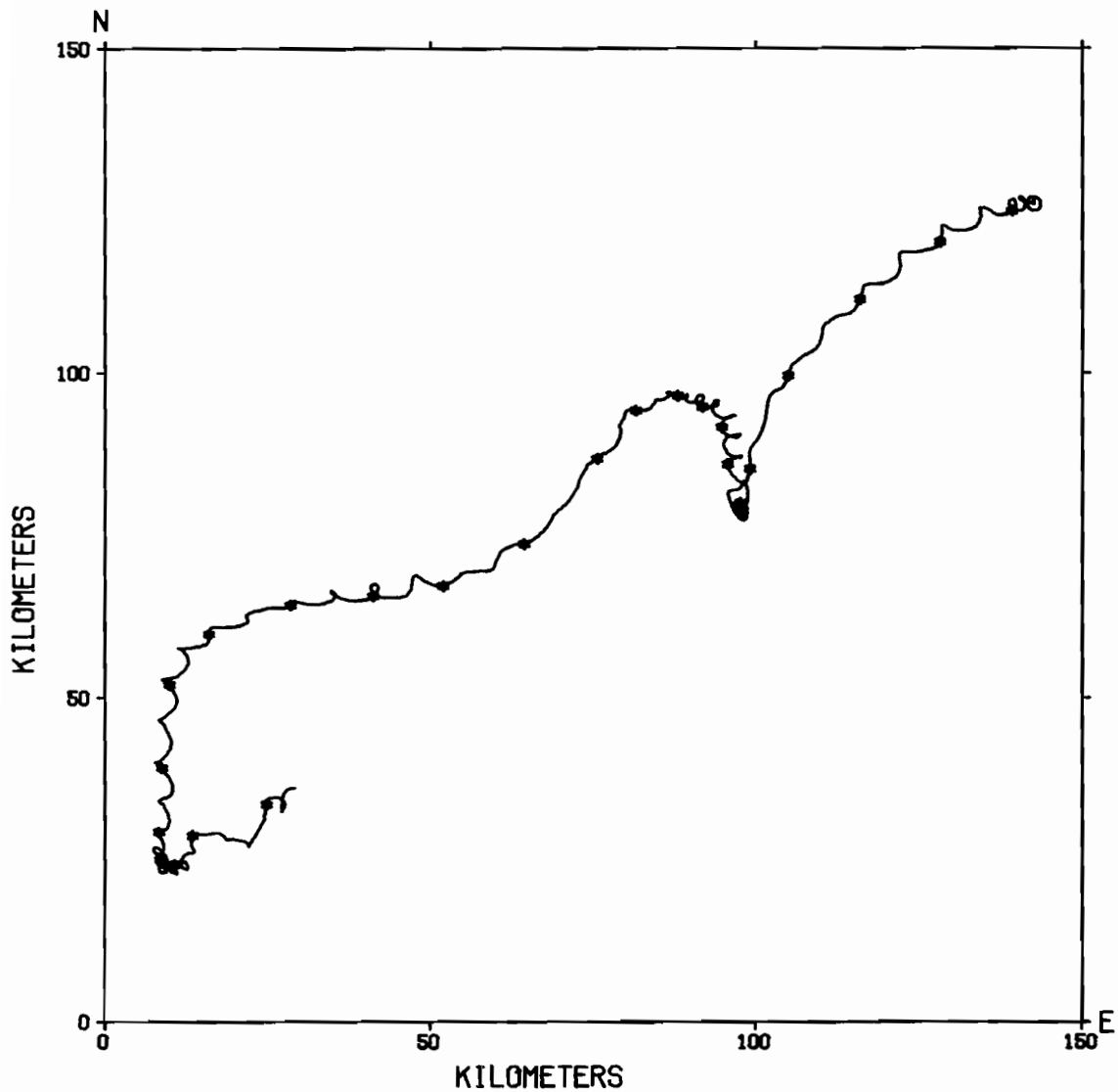
A.1. TIME SERIES ANALYSIS Current Meter 625 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.

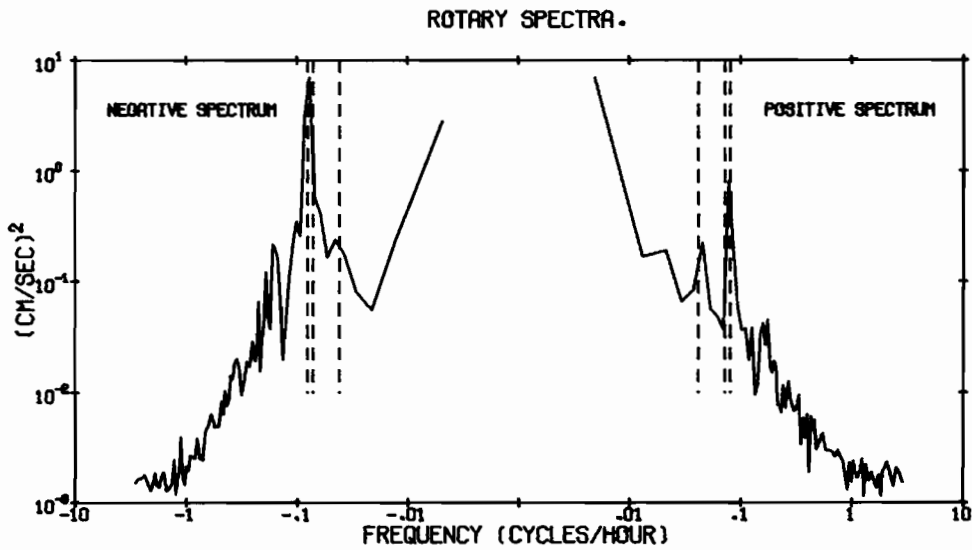
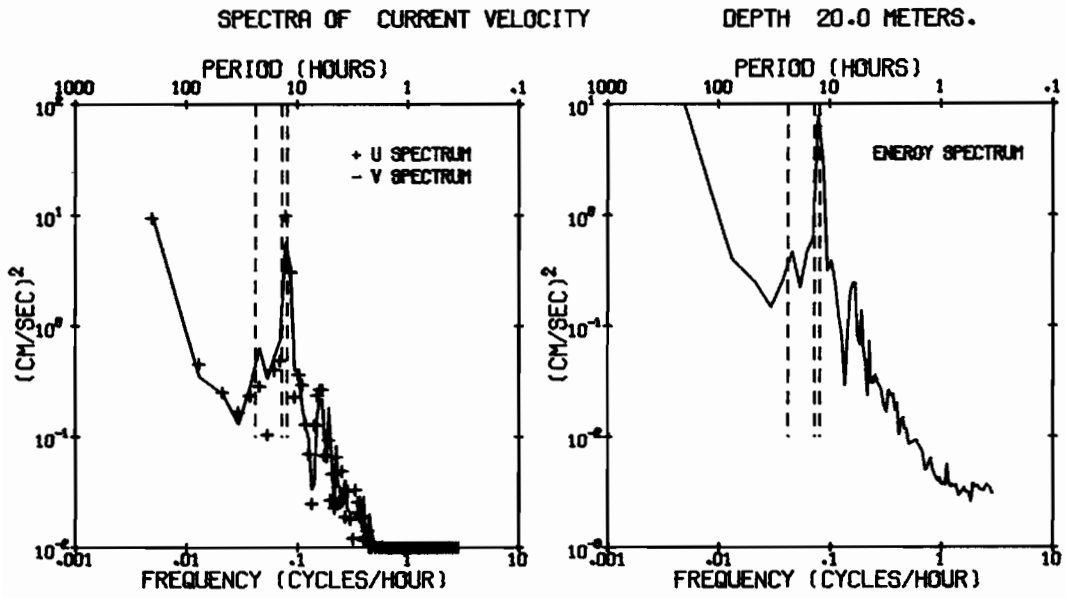


A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOA - 60  
OBSERVATION PERIOD 25.6 DAYS FROM 0330 GMT 1 AUG 74.  
DEPTH 20.0 METERS.



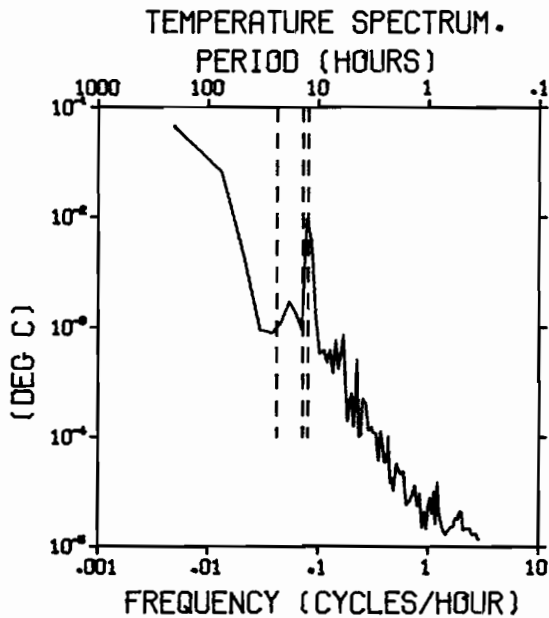
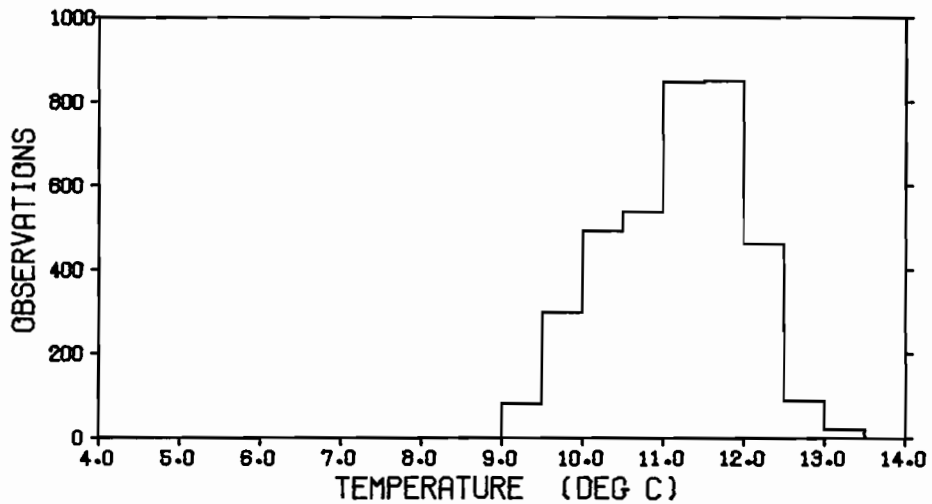
A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 2 of 2 (Continued)



A.1. TIME SERIES ANALYSIS Current Meter 625  
 Part 2 of 2 (Continued)

TEMPERATURE STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
 DEPTH 20.0 METERS            NUMBER OF OBSERVATIONS = 3680  
 OBSERVATION PERIOD 25.5 DAYS FROM 0330 GMT    1 AUG 74

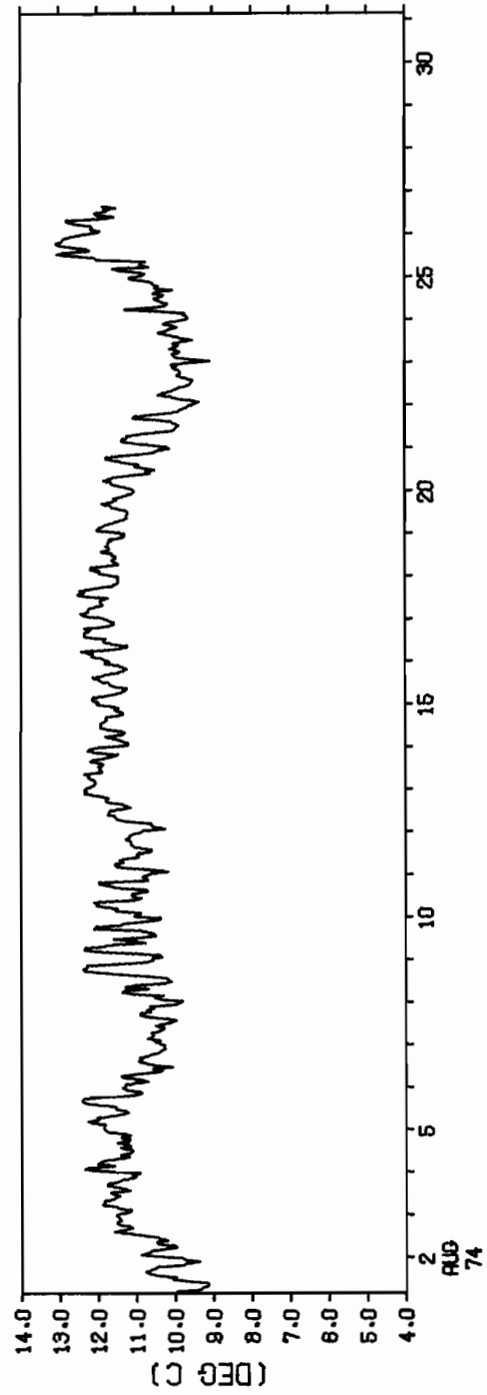
MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
11.17	.68	.82	-.26	2.41	13.18	8.87





A.1. TIME SERIES ANALYSIS Current Meter 625 Part 2 of 2 (Continued)

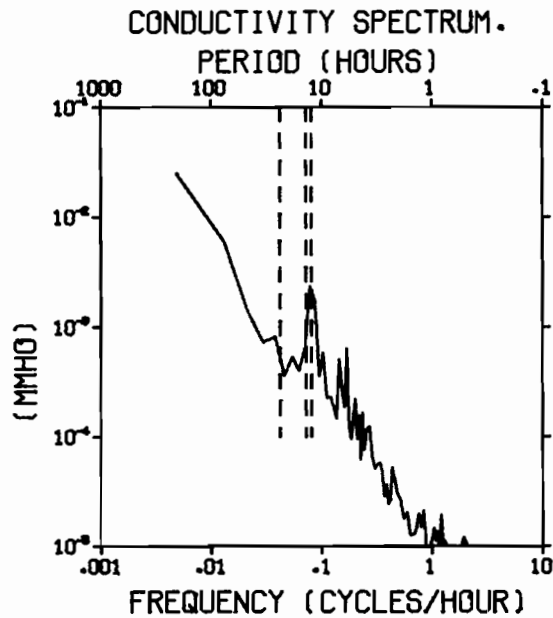
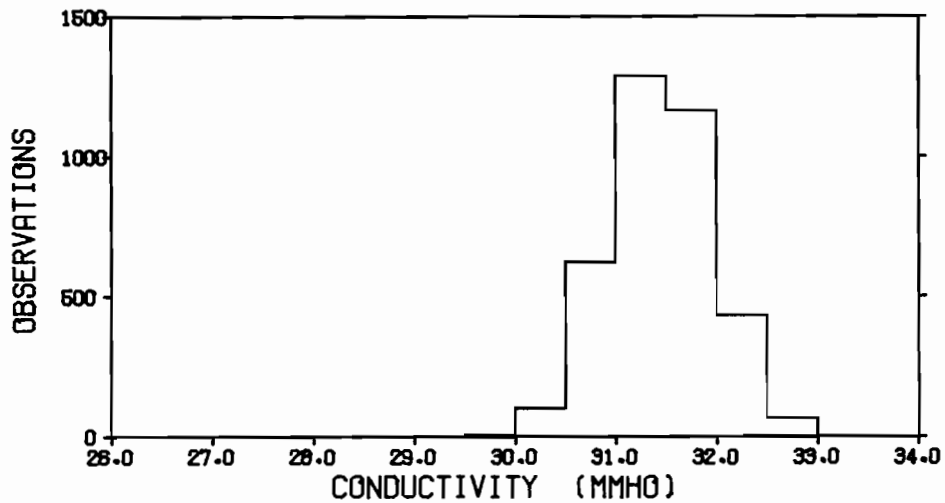
HOURLY AVERAGES OF TEMPERATURE DEPTH 20.0 METERS.



A.1. TIME SERIES ANALYSIS Current Meter 625  
Part 2 of 2 (Continued)

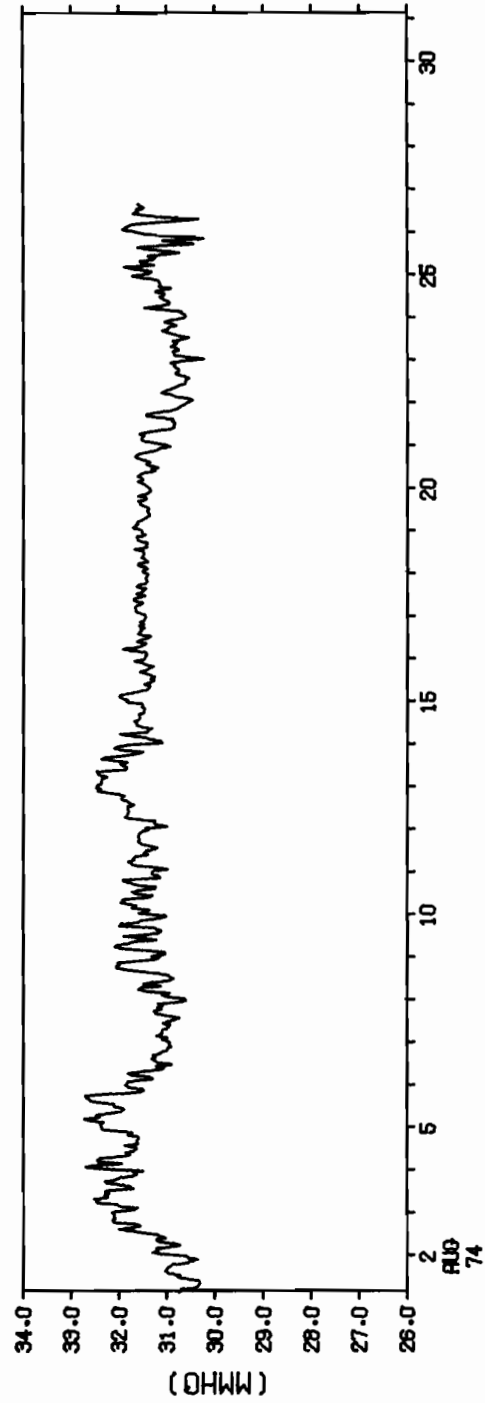
CONDUCTIVITY STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
DEPTH 20.0 METERS            NUMBER OF OBSERVATIONS = 3680  
OBSERVATION PERIOD 25.5 DAYS FROM 0330 GMT    1 AUG 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
31.44	.24	.49	.13	3.09	32.91	29.83



A.1. TIME SERIES ANALYSIS Current Meter 625 Part 2 of 2 (Continued)

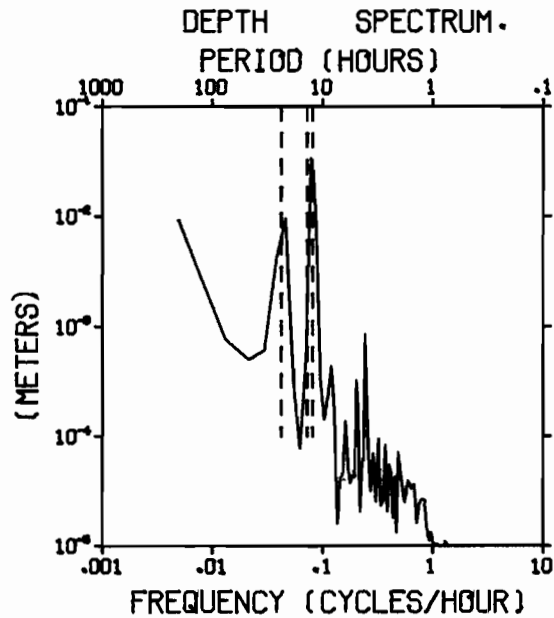
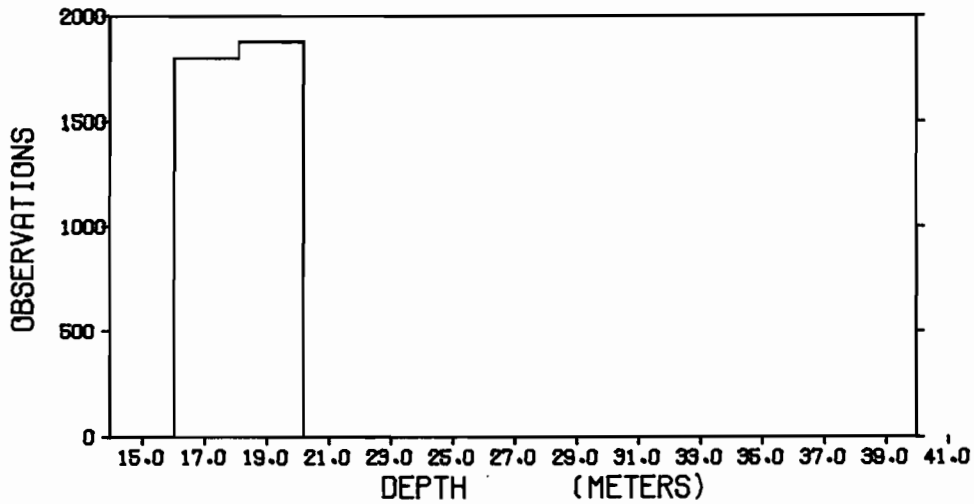
HOURLY AVERAGES OF CONDUCTIVITY DEPTH 20.0 METERS.



A.1. TIME SERIES ANALYSIS Current Meter 625  
 Part 2 of 2 (Continued)

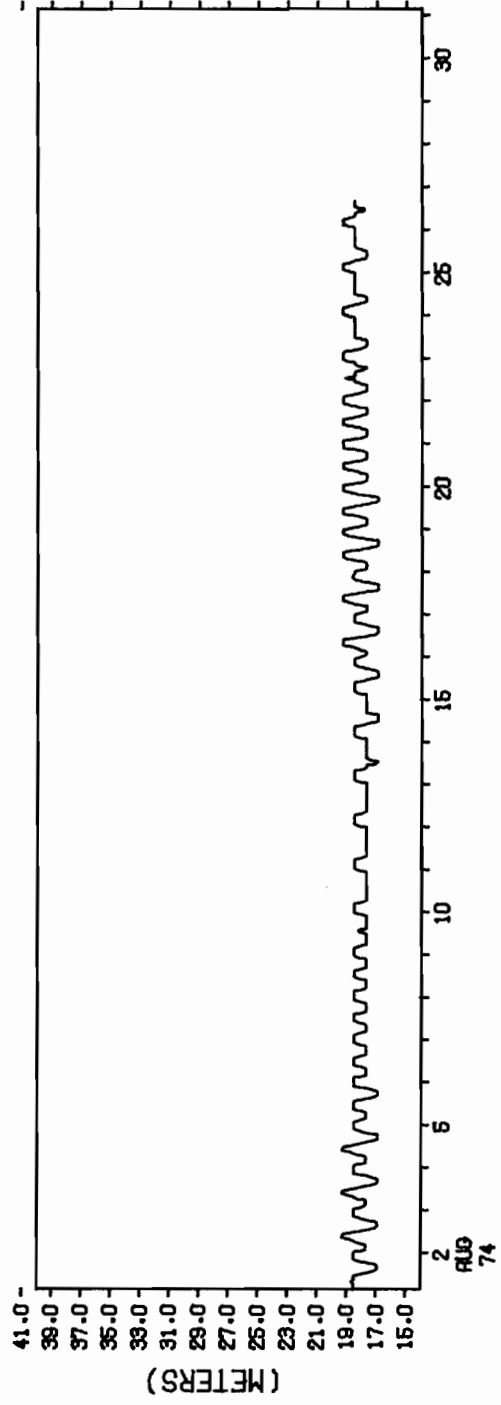
DEPTH STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
 DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 3680  
 OBSERVATION PERIOD 25.5 DAYS FROM 0330 GMT 1 AUG 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
19.03	.39	.63	.05	2.48	20.15	17.84



A.1. TIME SERIES ANALYSIS Current Meter 625 Part 2 of 2 (Continued)

HOURLY AVERAGES OF DEPTH DEPTH 20.0 METERS.

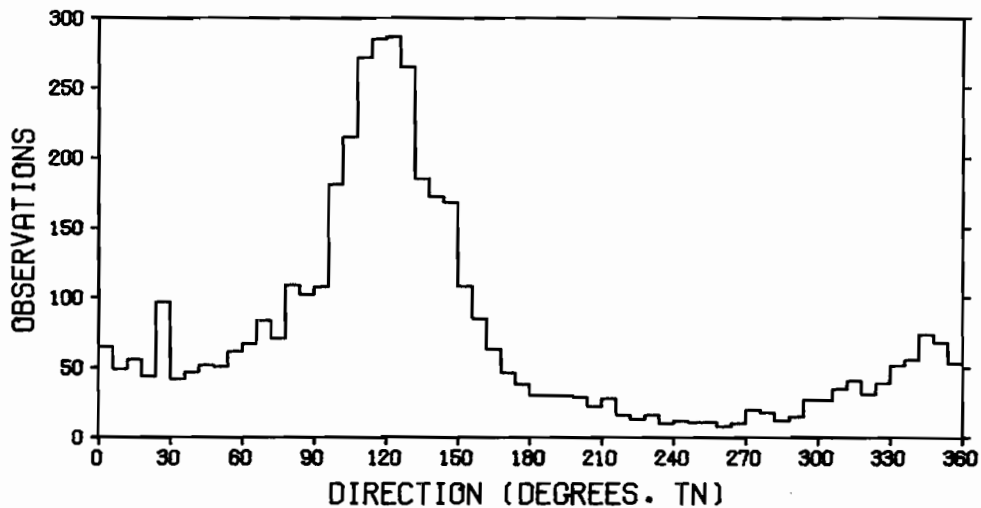
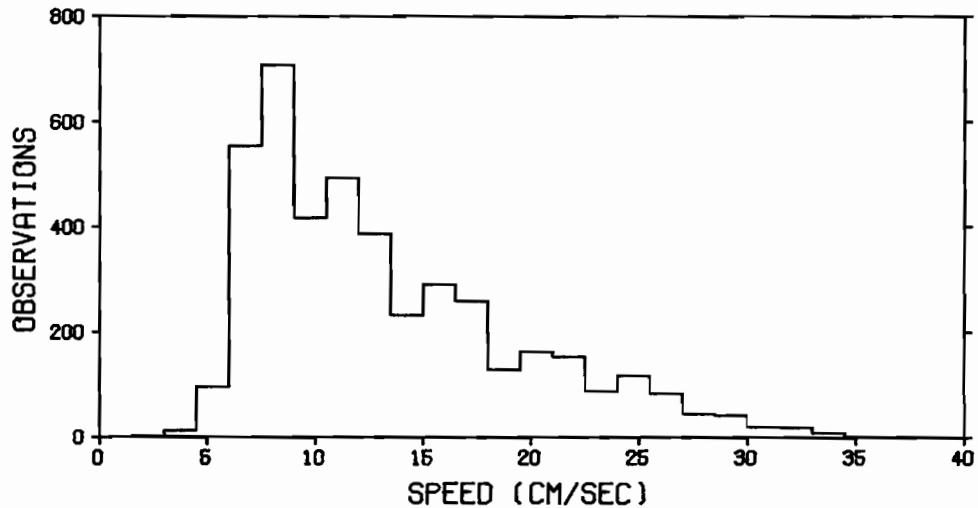


A.2. TIME SERIES ANALYSIS Current Meter 412 Nominal Depth: 30m  
 Part 1 of 2; 2 July - 1 August 1974

Mooring Designation NEG0A 60  
 Location: 60° 5.4'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

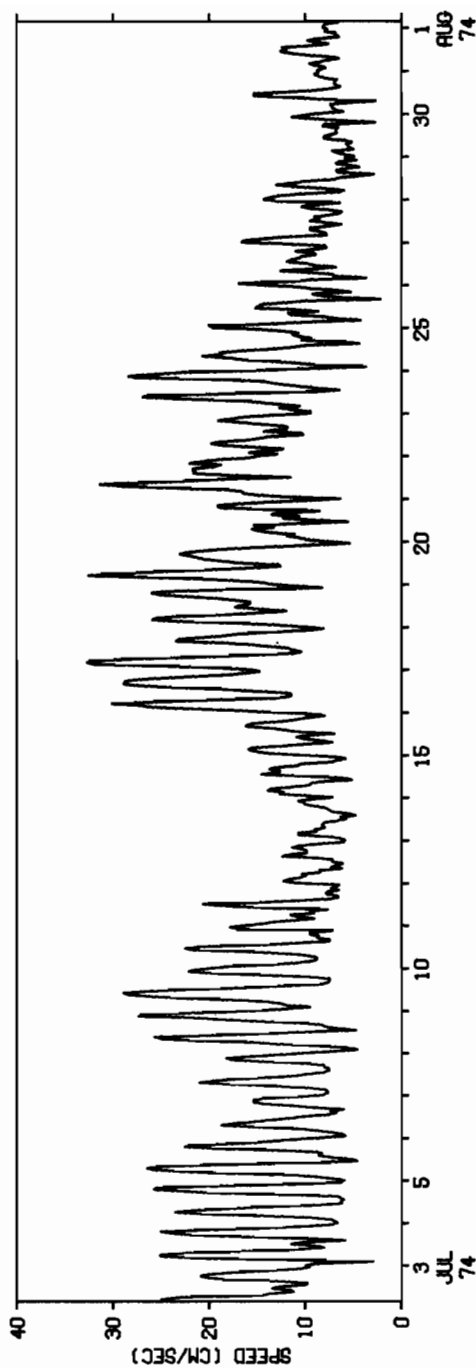
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	13.19	36.94	6.08	.962	3.25	35.12	2.32
U	7.54	73.22	8.56	-.028	2.73	31.83	-19.72
V	-2.51	74.58	8.64	.270	2.58	23.26	-25.34

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



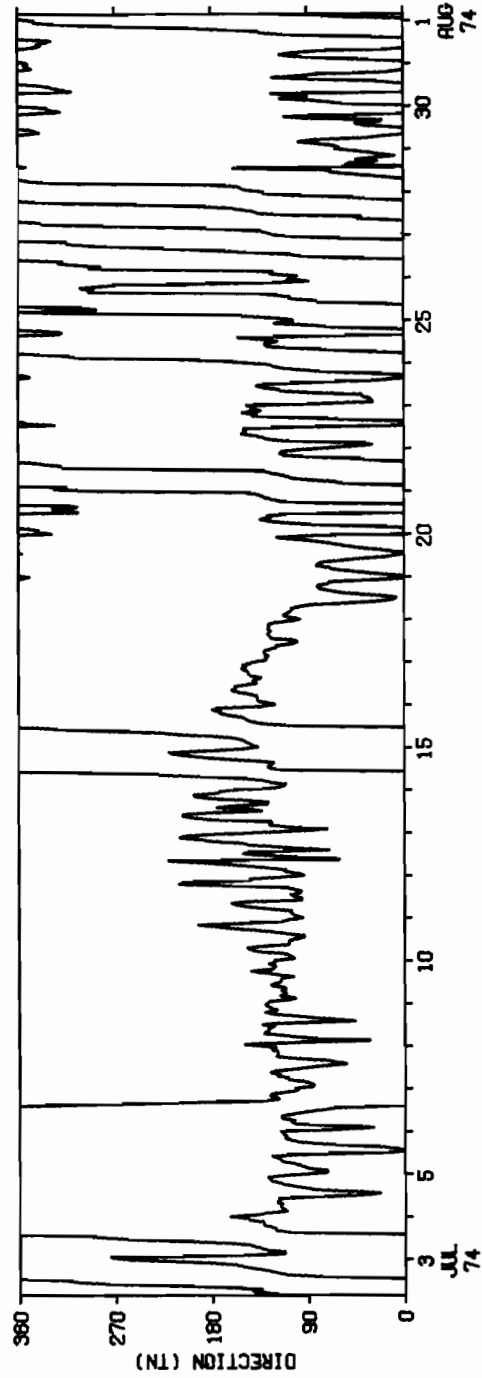
A.2. TIME SERIES ANALYSIS Current Meter 412 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 30.0 METERS.



A.2. TIME SERIES ANALYSIS Current Meter 412 Part 1 of 2 (Continued)

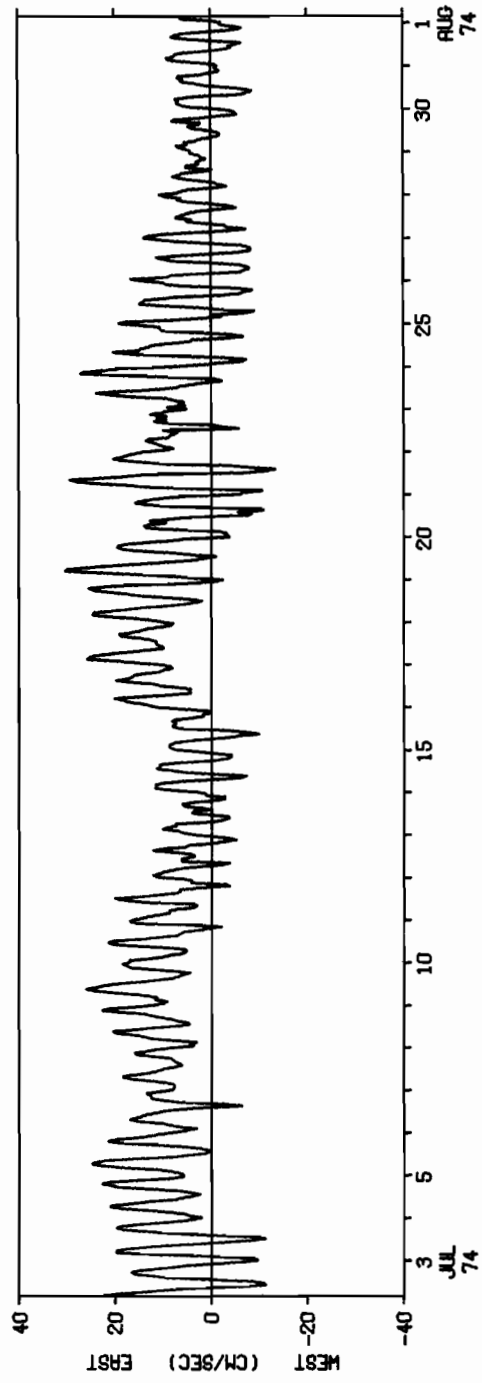
HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 30.0 METERS.





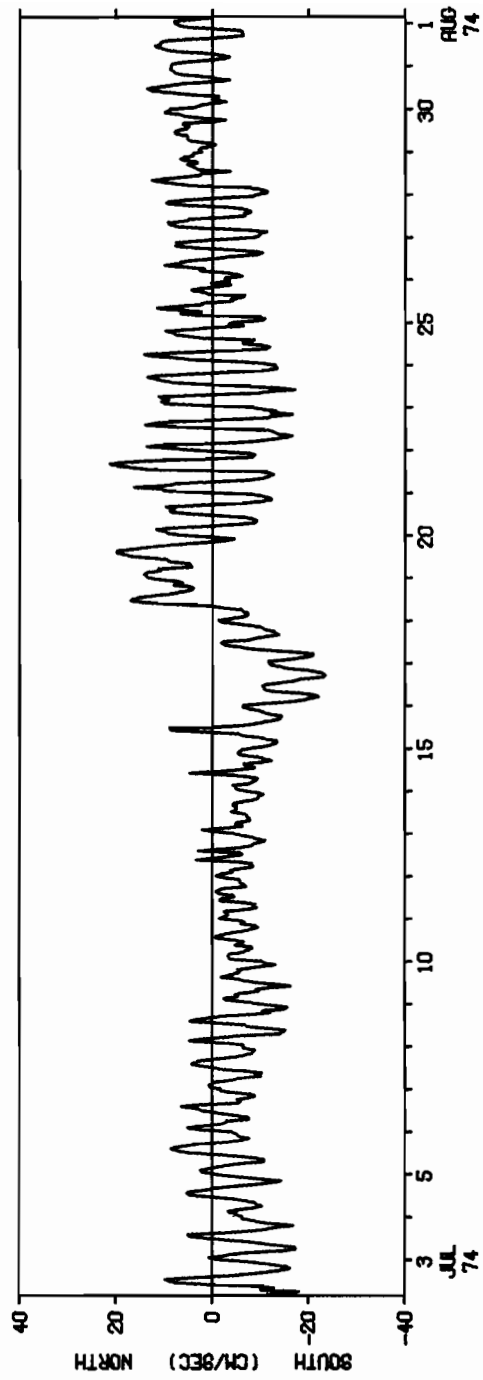
A.2. TIME SERIES ANALYSIS Current Meter 412 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 30.0 METERS.



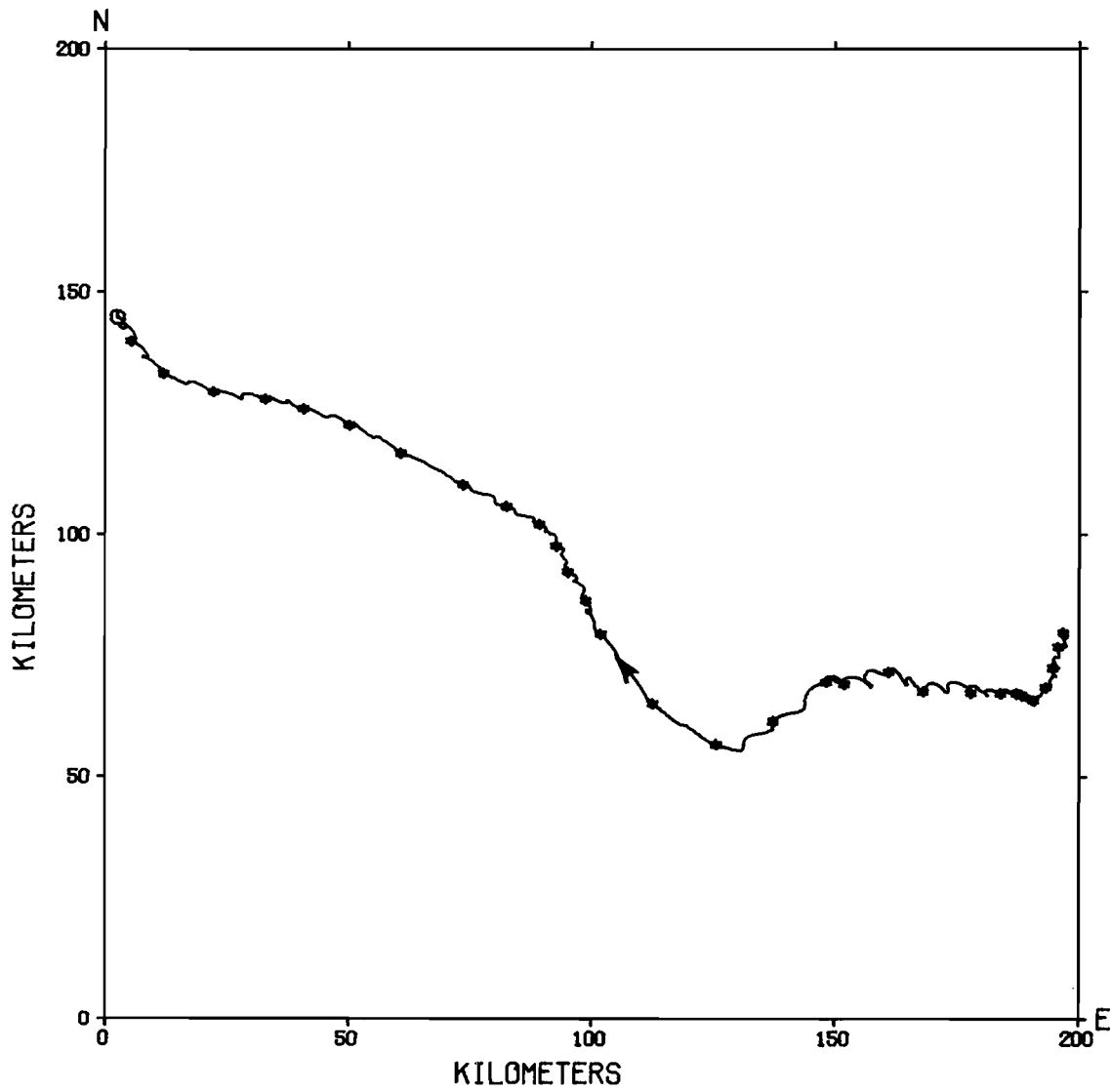
A.2. TIME SERIES ANALYSIS Current Meter 412 Part 1 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 30.0 METERS.

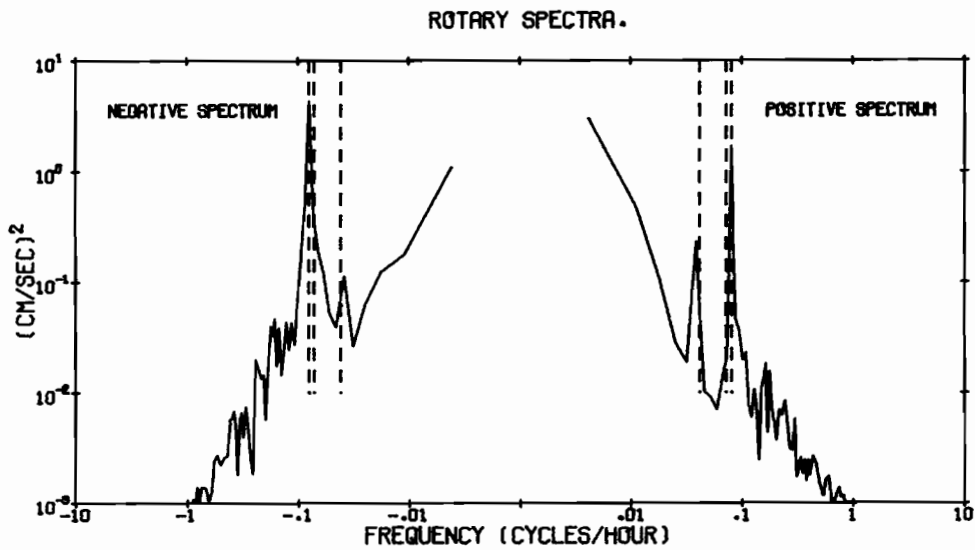
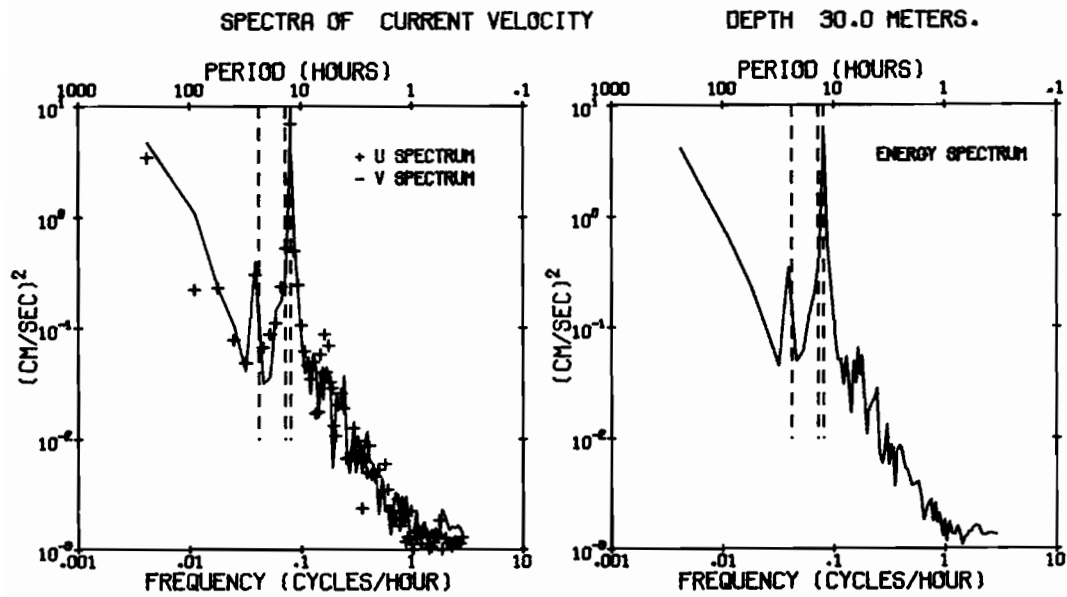


A.2. TIME SERIES ANALYSIS Current Meter 412  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 60  
OBSERVATION PERIOD 30.0 DAYS FROM 0342 GMT 2 JUL 74.  
DEPTH 30.0 METERS.



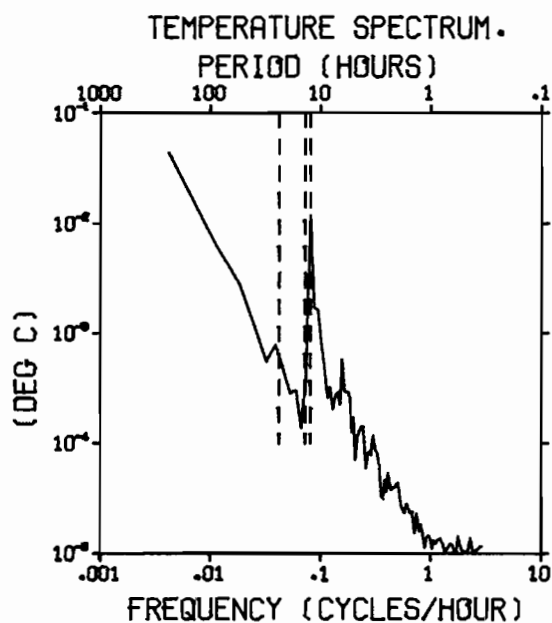
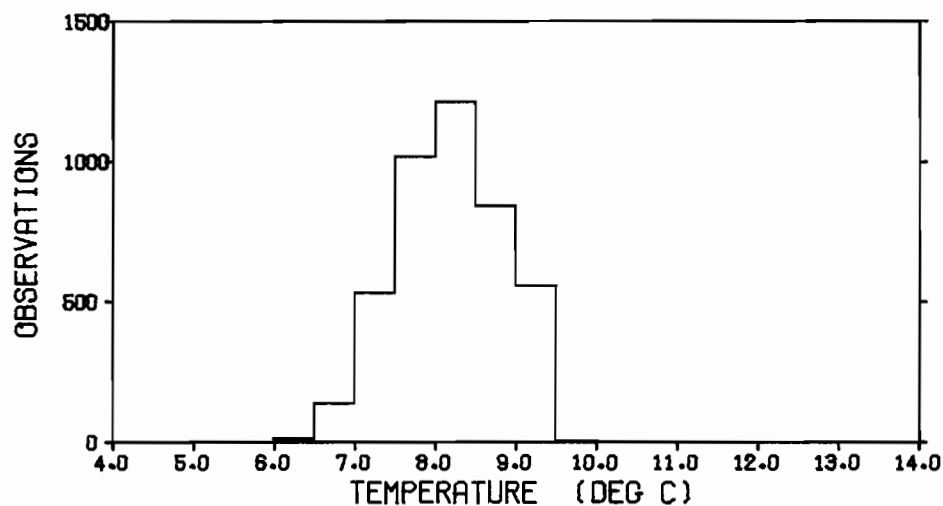
A.2. TIME SERIES ANALYSIS Current Meter 412  
Part 1 of 2 (Continued)



A.2. TIME SERIES ANALYSIS Current Meter 412  
 Part 1 of 2 (Continued)

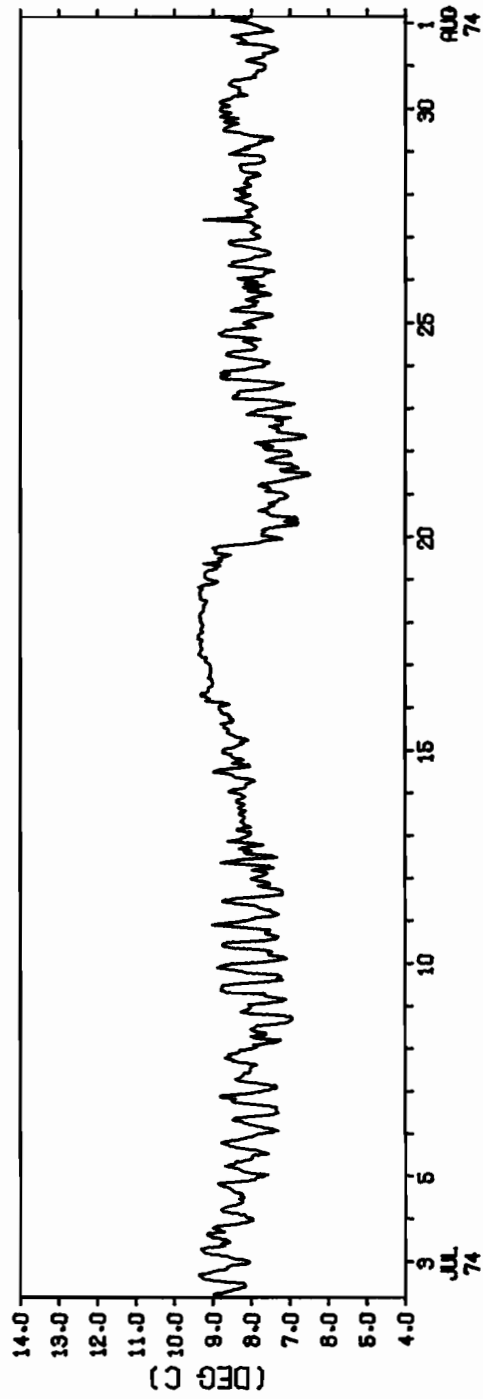
TEMPERATURE STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
 DEPTH 30.0 METERS            NUMBER OF OBSERVATIONS = 4320  
 OBSERVATION PERIOD 30.0 DAYS FROM 0342 GMT    2 JUL 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
8.18	.42	.65	-.08	2.44	9.79	6.43



A.2. TIME SERIES ANALYSIS Current Meter 412 Part 1 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 30.0 METERS.

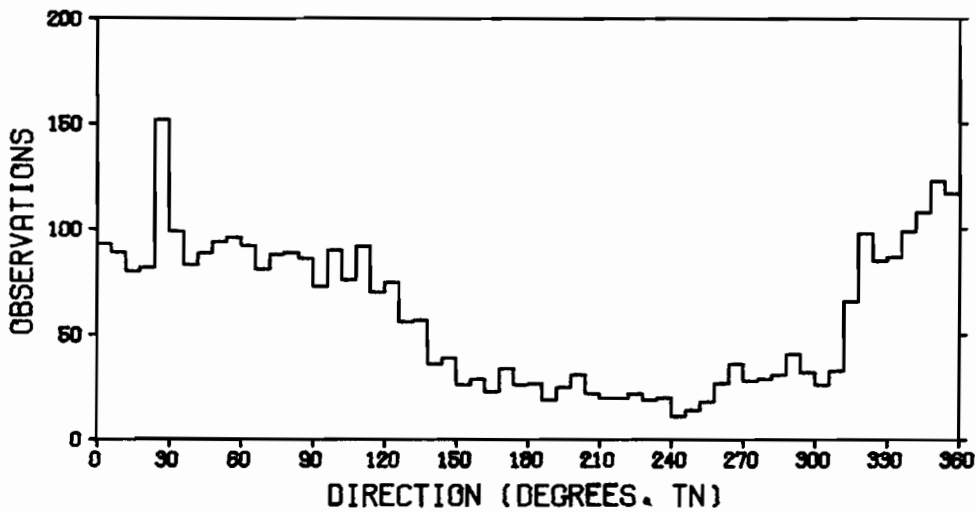
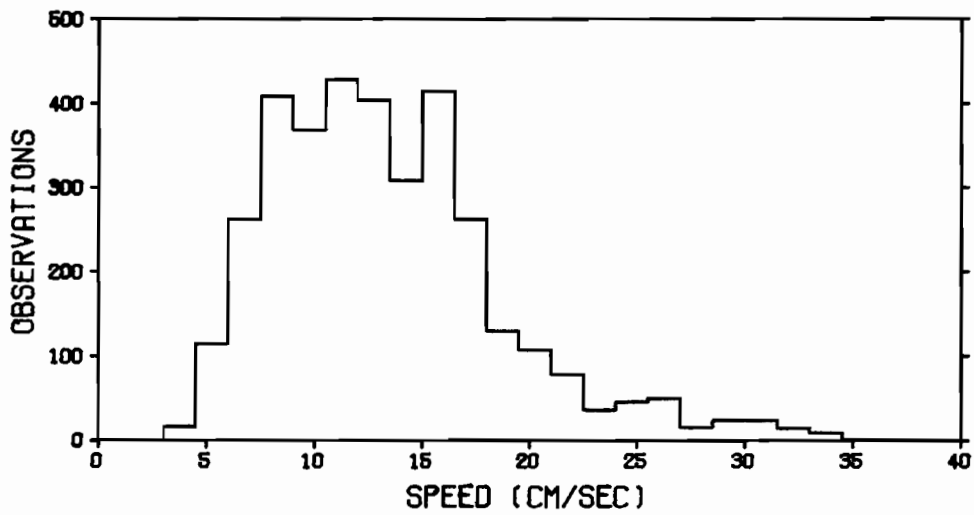


A.2. TIME SERIES ANALYSIS Current Meter 412 Nominal Depth: 30m  
 Part 2 of 2; 1 August - 26 August 1974

Mooring Designation NEGOA 60  
 Location: 60° 5.4'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

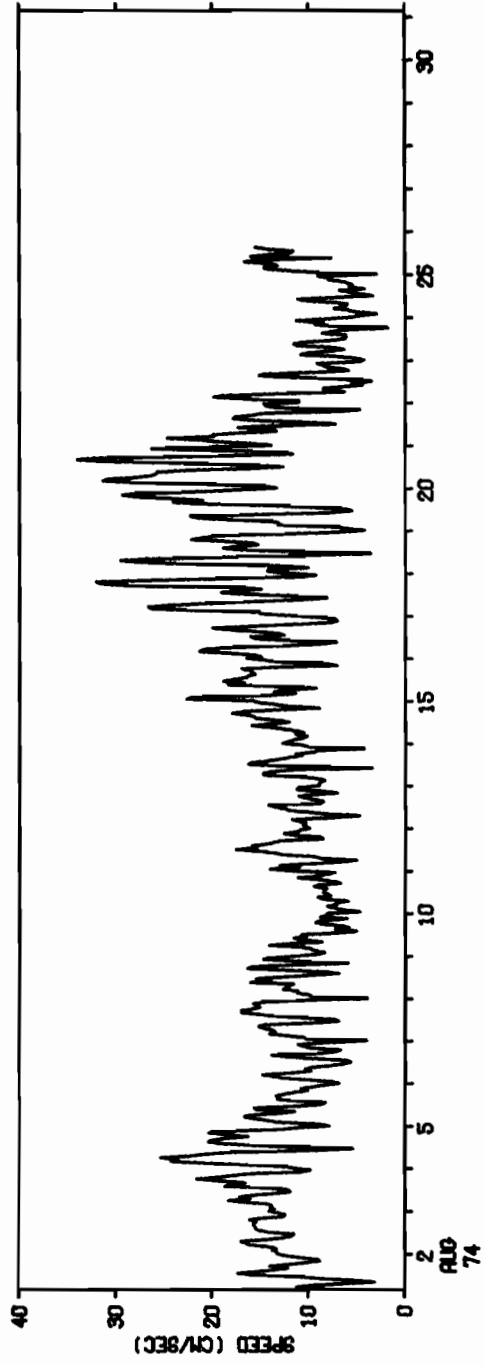
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	13.33	29.56	5.44	1.034	4.37	36.35	3.96
U	3.88	89.16	9.44	.227	2.61	33.32	-21.35
V	4.52	82.70	9.09	-.115	2.67	33.72	-25.95

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



A.2. TIME SERIES ANALYSIS Current Meter 412 Part 2 of 2 (Continued)

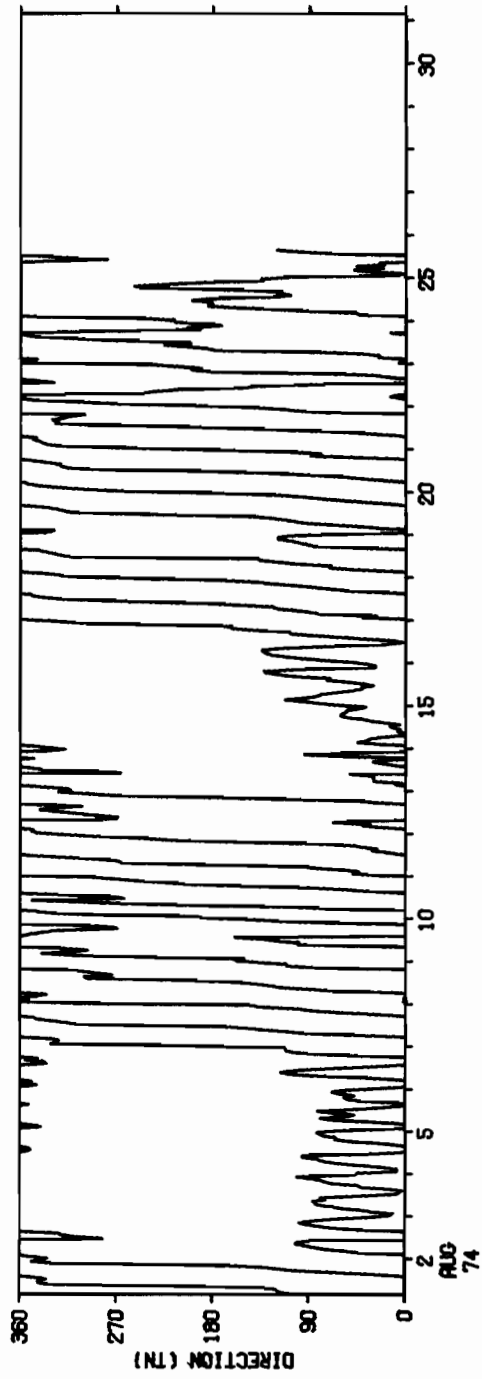
HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 30.0 METERS.





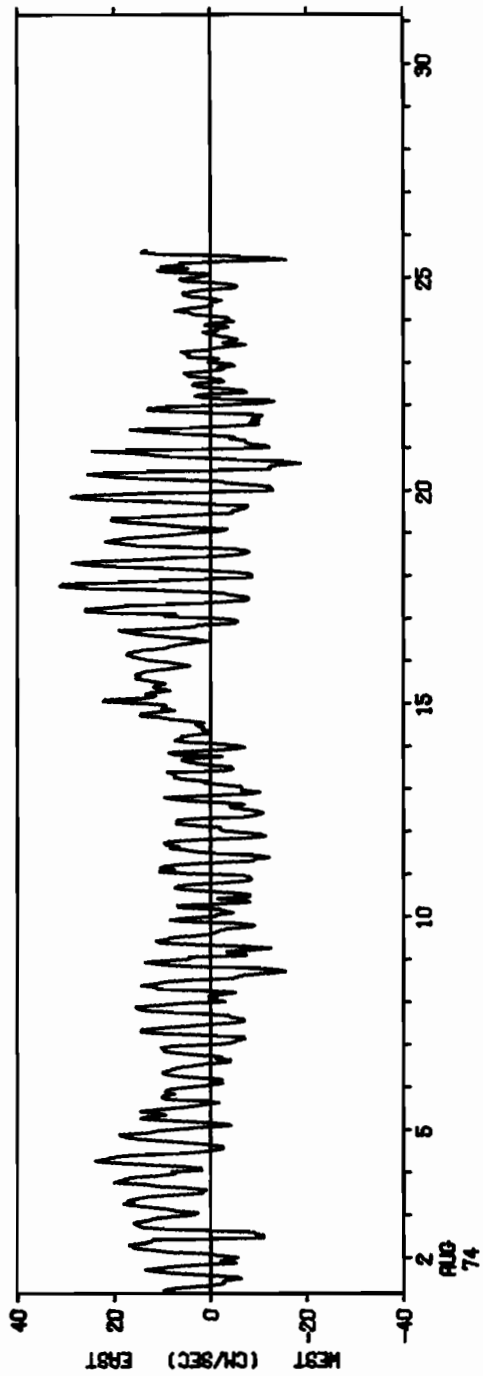
A.2. TIME SERIES ANALYSIS Current Meter 412 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 30.0 METERS.



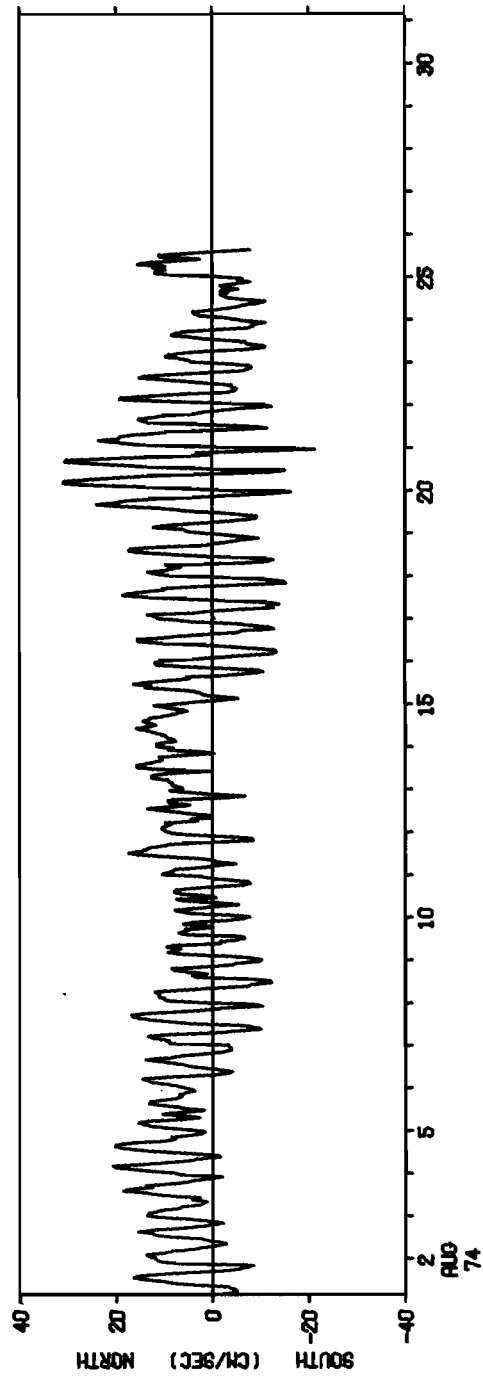
A.2. TIME SERIES ANALYSIS Current Meter 412 Part 2 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 30.0 METERS.



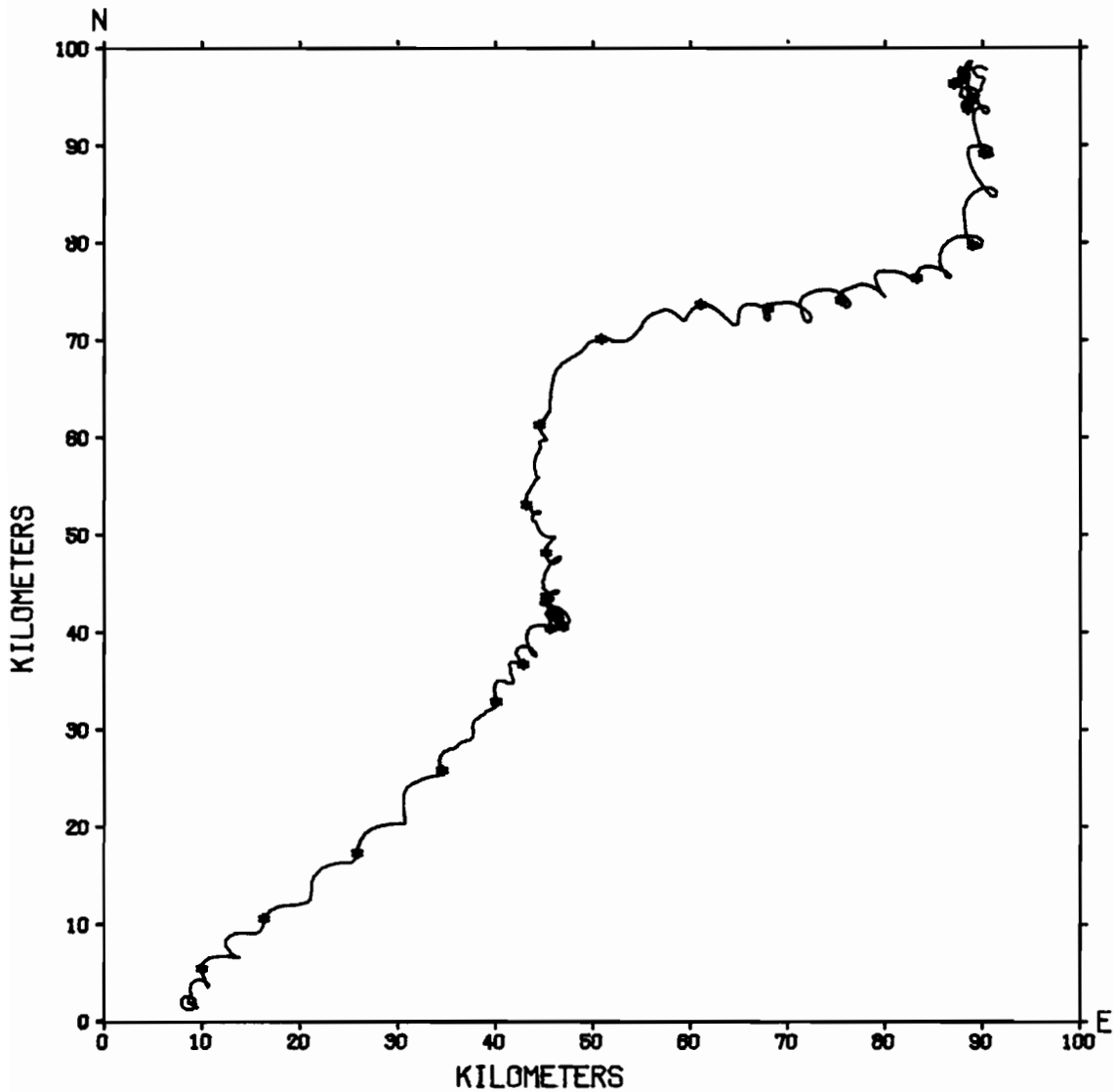
A.2. TIME SERIES ANALYSIS Current Meter 412 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 30.0 METERS.

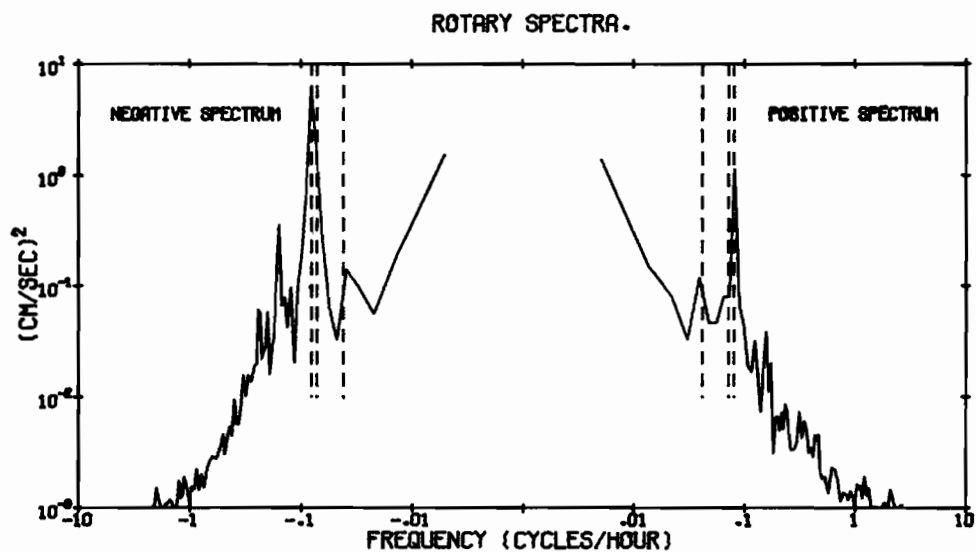
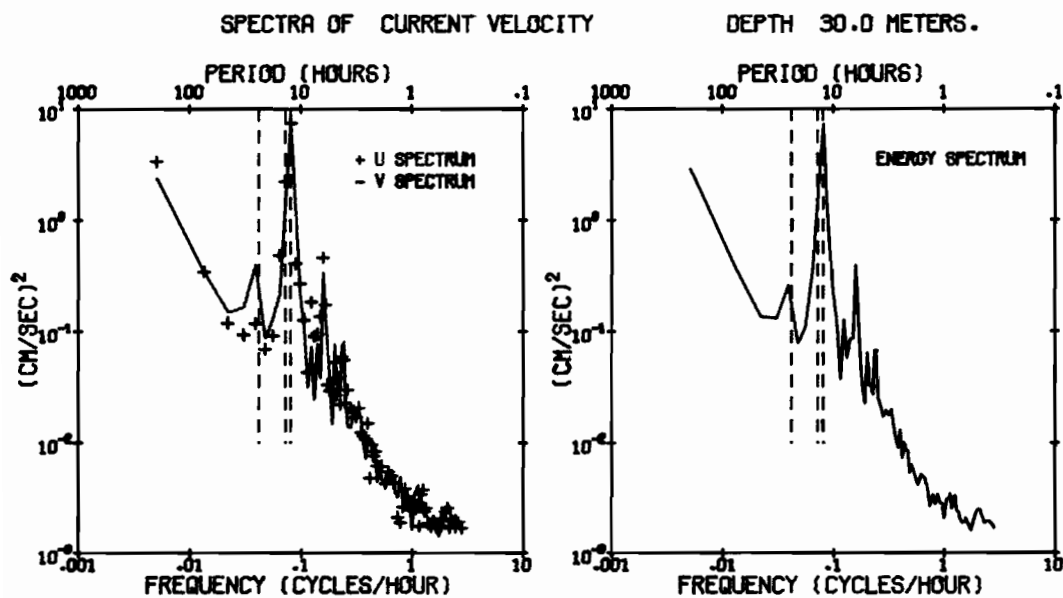


A.2. TIME SERIES ANALYSIS Current Meter 412  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGORA - 60  
OBSERVATION PERIOD 24.5 DAYS FROM 0342 GMT 1 AUG 74.  
DEPTH 30.0 METERS.



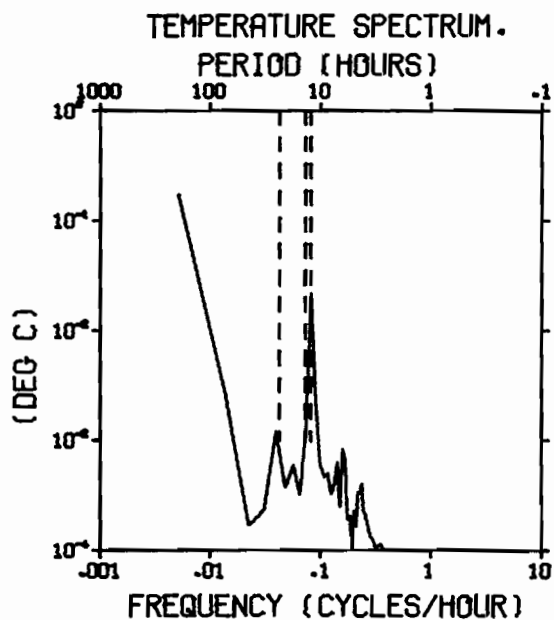
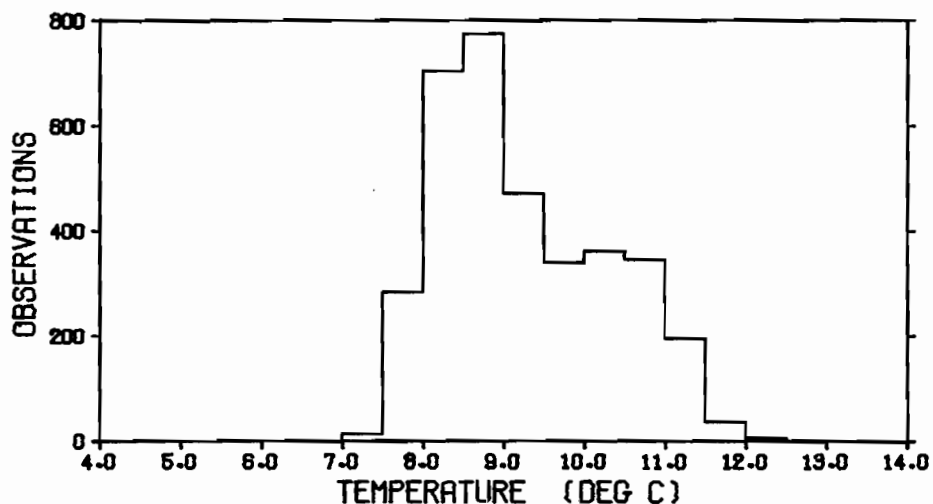
A.2. TIME SERIES ANALYSIS Current Meter 412  
 Part 2 of 2 (Continued)



A.2. TIME SERIES ANALYSIS Current Meter 412  
 Part 2 of 2 (Continued)

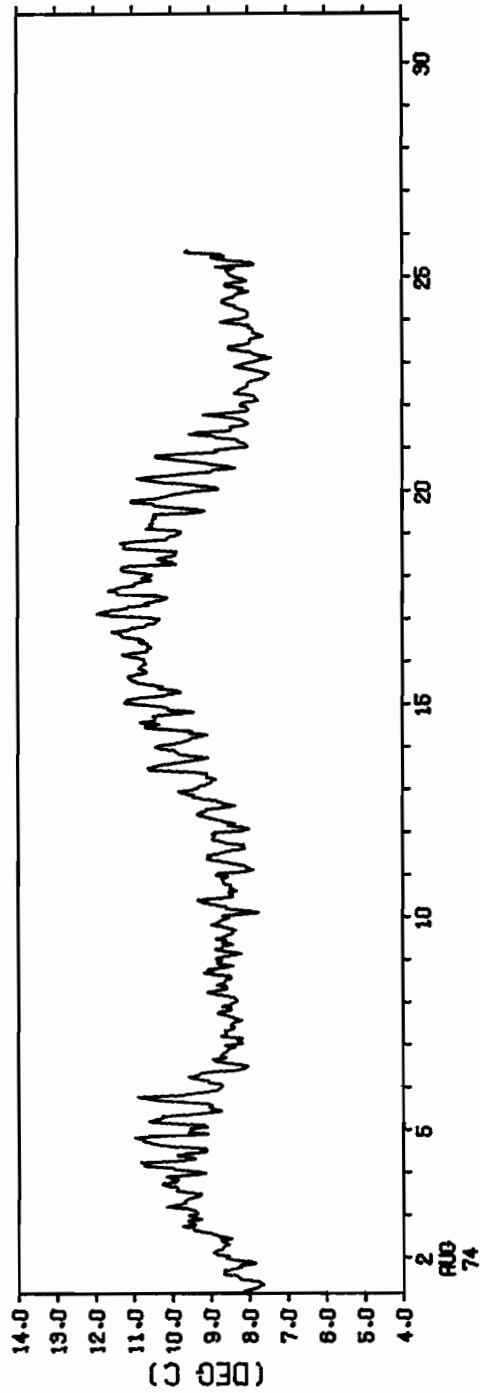
TEMPERATURE STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
 DEPTH 30.0 METERS NUMBER OF OBSERVATIONS = 3529  
 OBSERVATION PERIOD 24.5 DAYS FROM 0342 GMT 1 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
9.24	1.08	1.04	.50	2.22	12.26	7.29



A.2. TIME SERIES ANALYSIS Current Meter 412 Part 2 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 30.0 METERS.

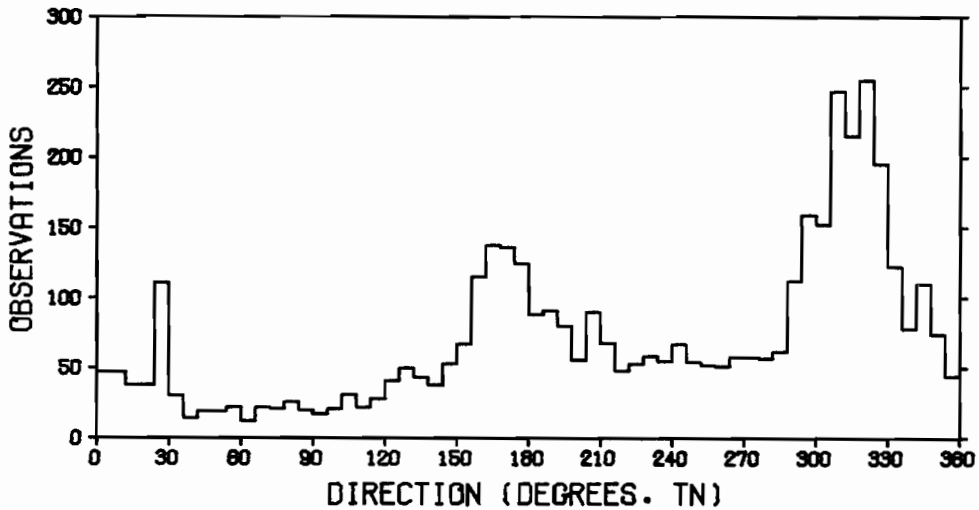
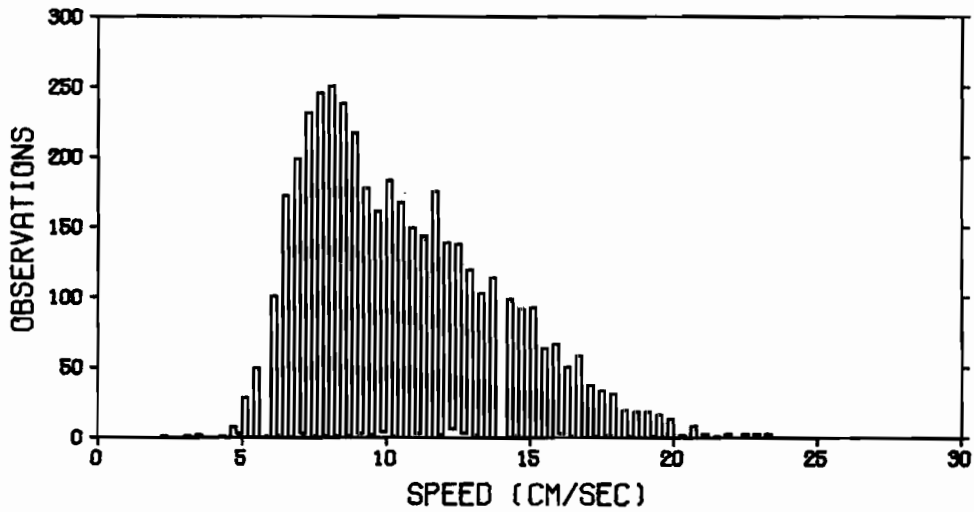


A.3. TIME SERIES ANALYSIS Current Meter 392 Nominal Depth: 50m  
 Part 1 of 2; 2 July - 1 August 1974

Mooring Designation NEGOA 60  
 Location: 60° 5.4'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	10.62	11.60	3.41	.712	2.99	23.23	2.32
U	-3.17	39.57	6.29	.316	2.20	13.91	-18.30
V	.80	74.18	8.61	-.207	1.92	20.75	-21.58

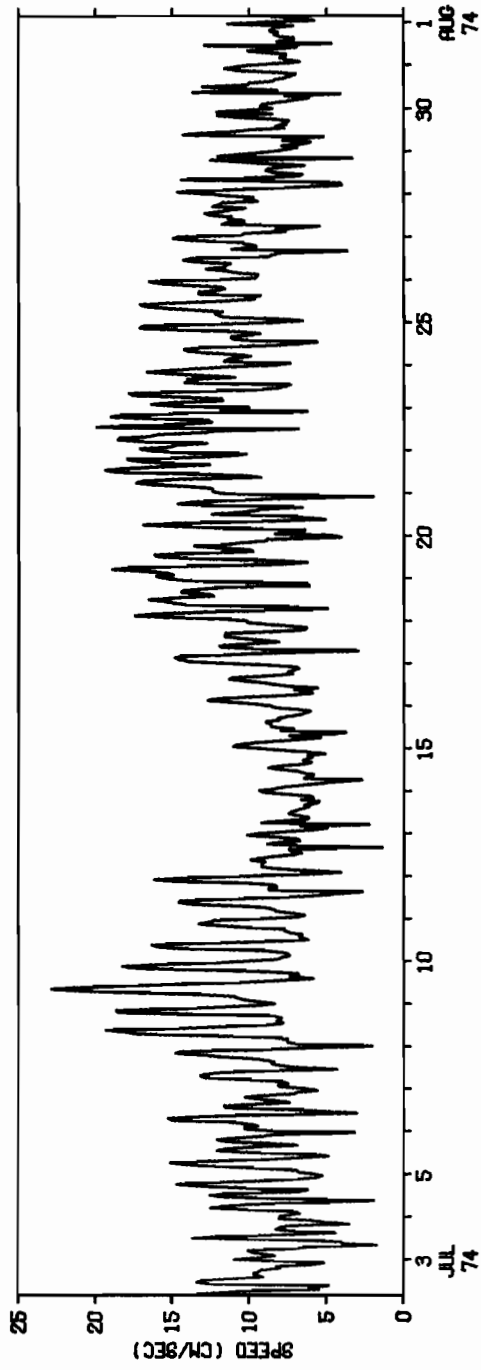
S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V





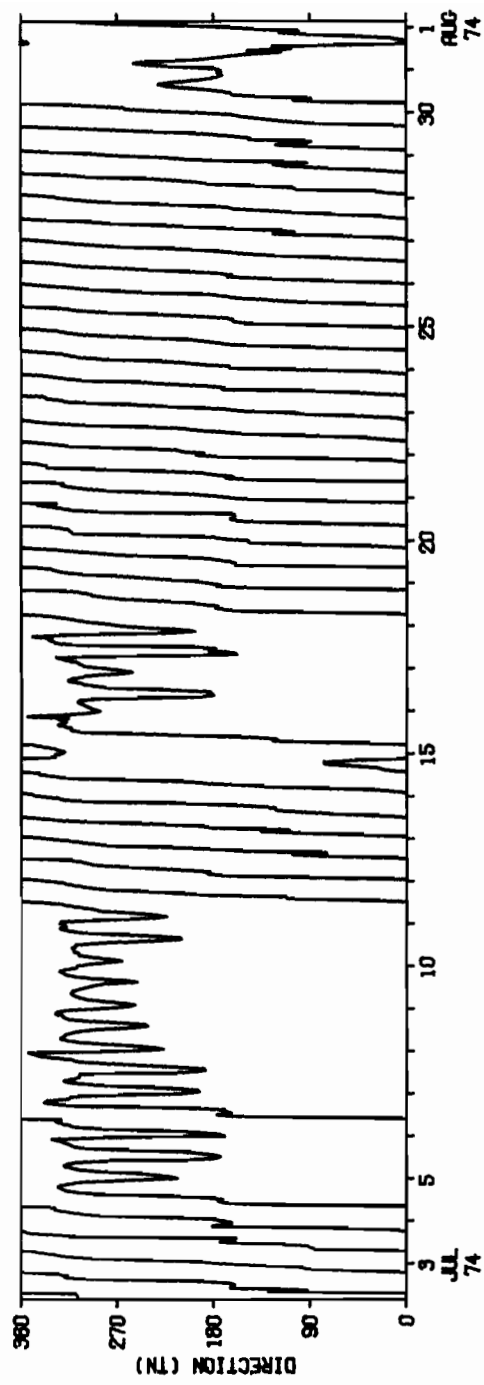
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 50.0 METERS.



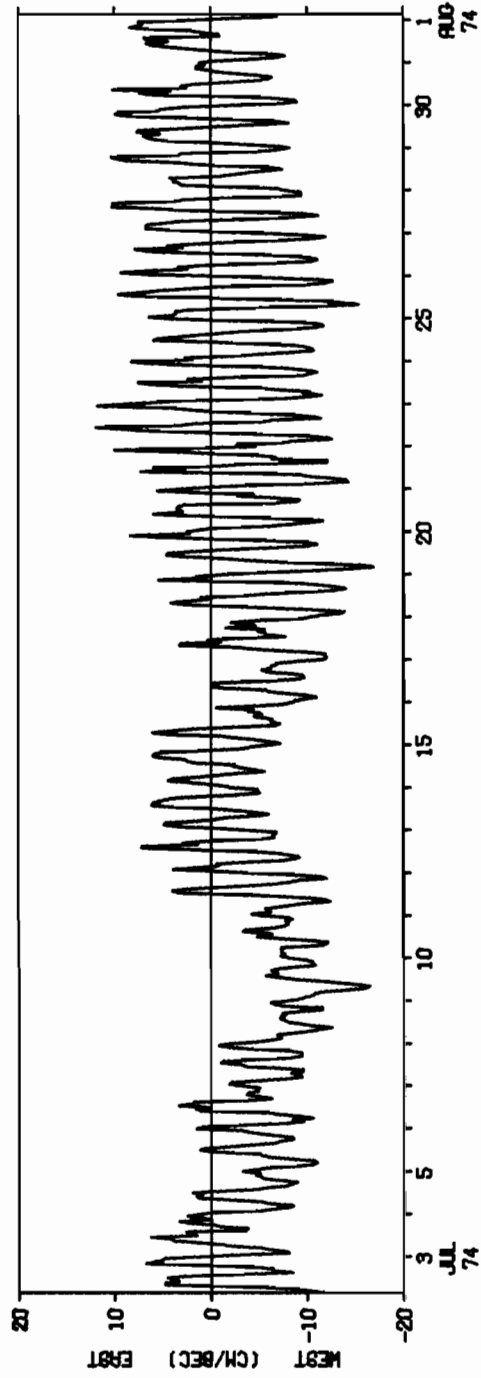
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 50.0 METERS.



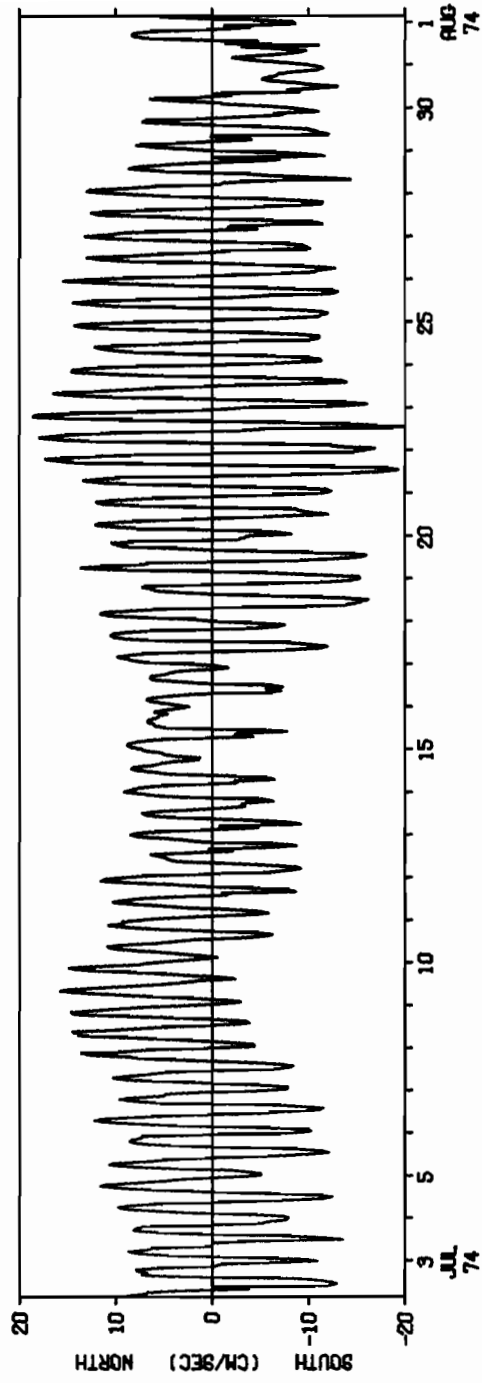
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.



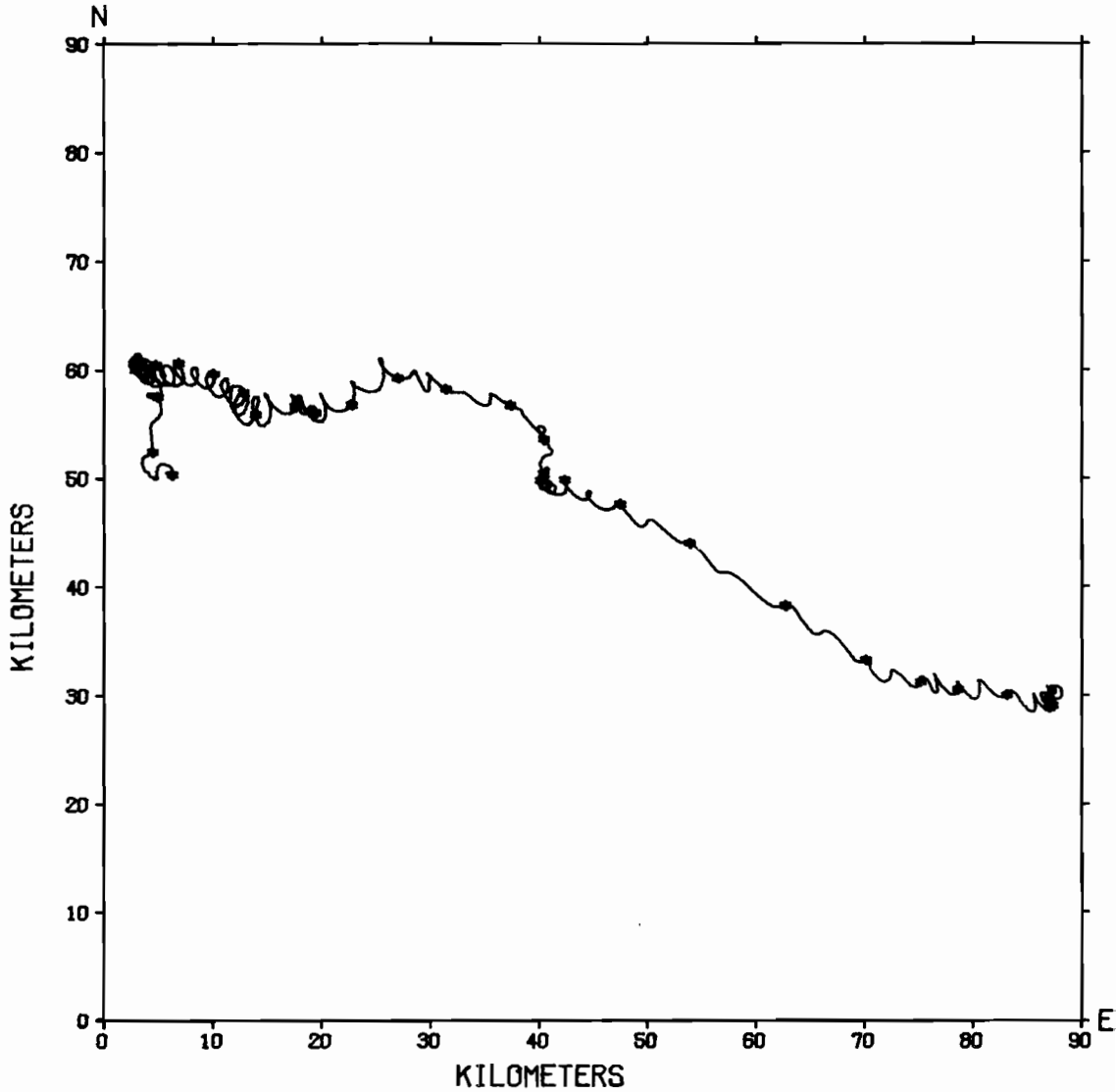
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 1 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.

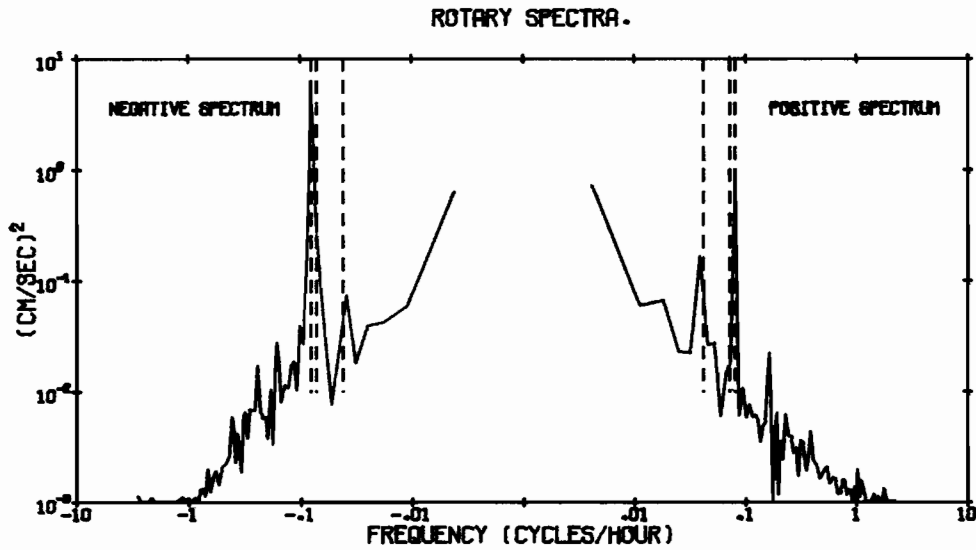
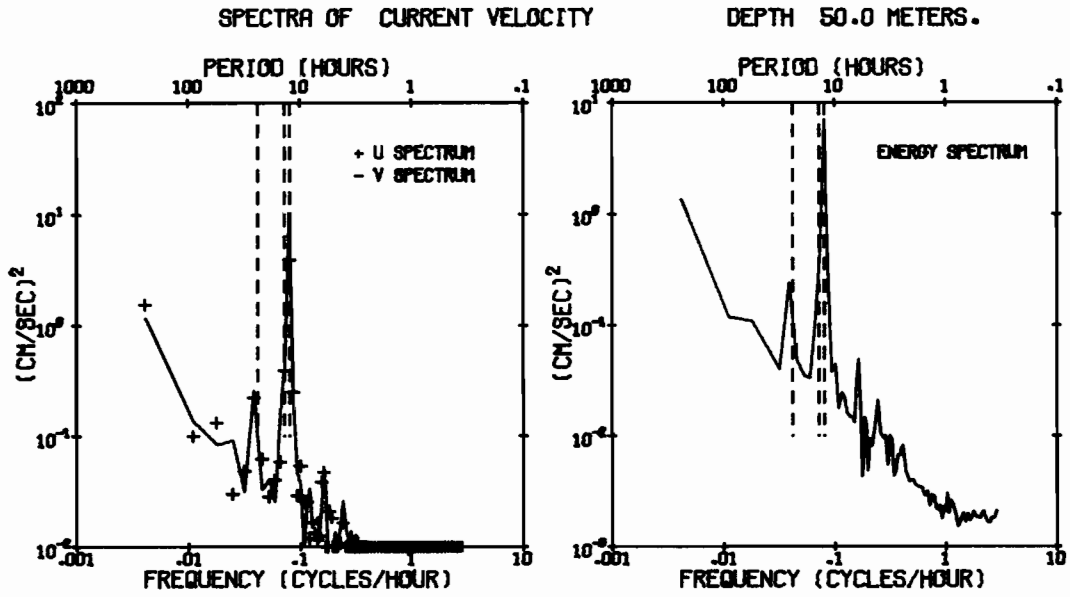


A.3. TIME SERIES ANALYSIS Current Meter 392  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOA - 60  
OBSERVATION PERIOD 30.0 DAYS FROM 0324 GMT 2 JUL 74.  
DEPTH 50.0 METERS.



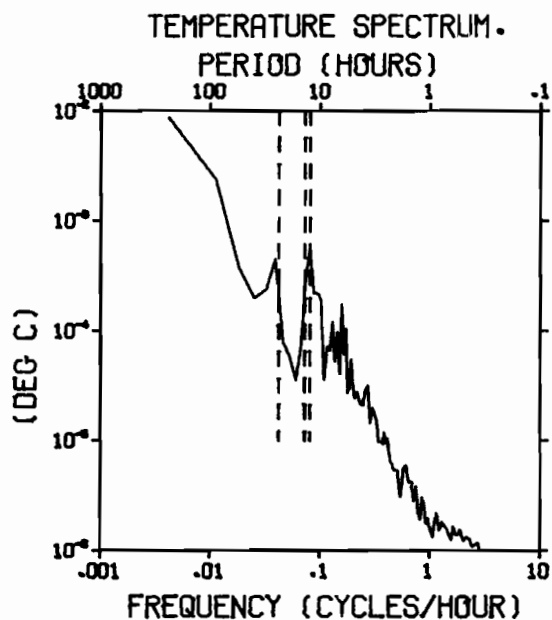
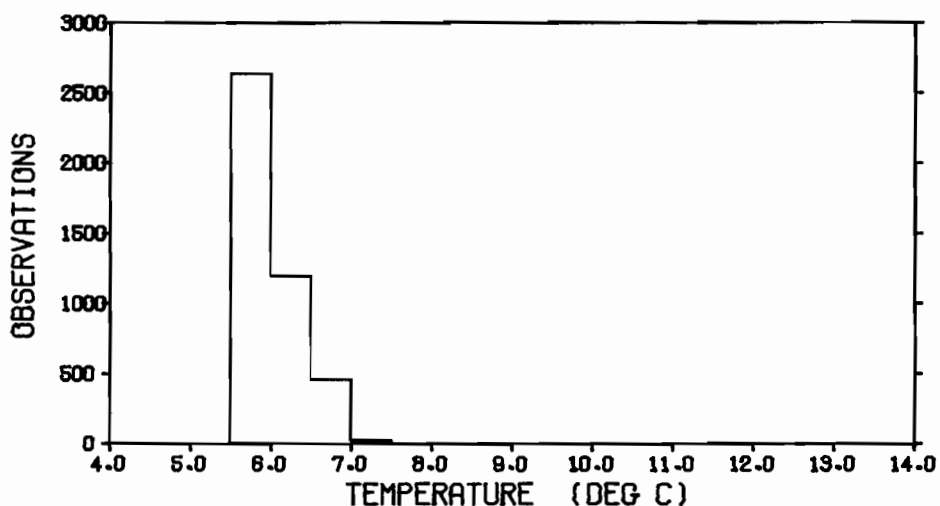
A.3. TIME SERIES ANALYSIS Current Meter 392  
 Part 1 of 2 (Continued)



A.3. TIME SERIES ANALYSIS Current Meter 392  
Part 1 of 2 (Continued)

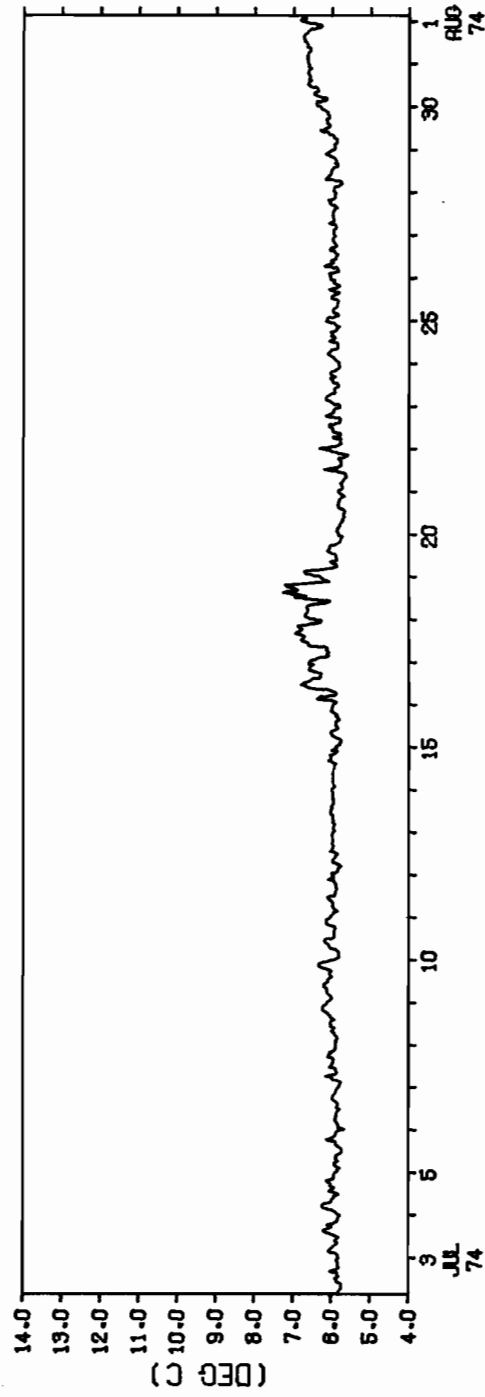
TEMPERATURE STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
DEPTH 50.0 METERS            NUMBER OF OBSERVATIONS = 4320  
OBSERVATION PERIOD 30.0 DAYS FROM 0324 GMT    2 JUL 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
6.04	.08	.28	1.55	5.23	7.62	5.52



A.3. TIME SERIES ANALYSIS Current Meter 392 Part 1 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 50.0 METERS.



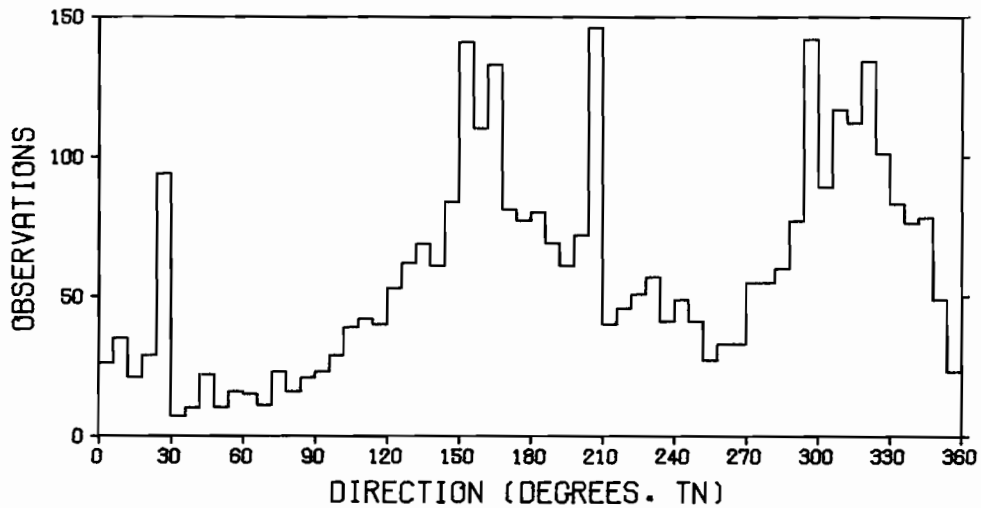
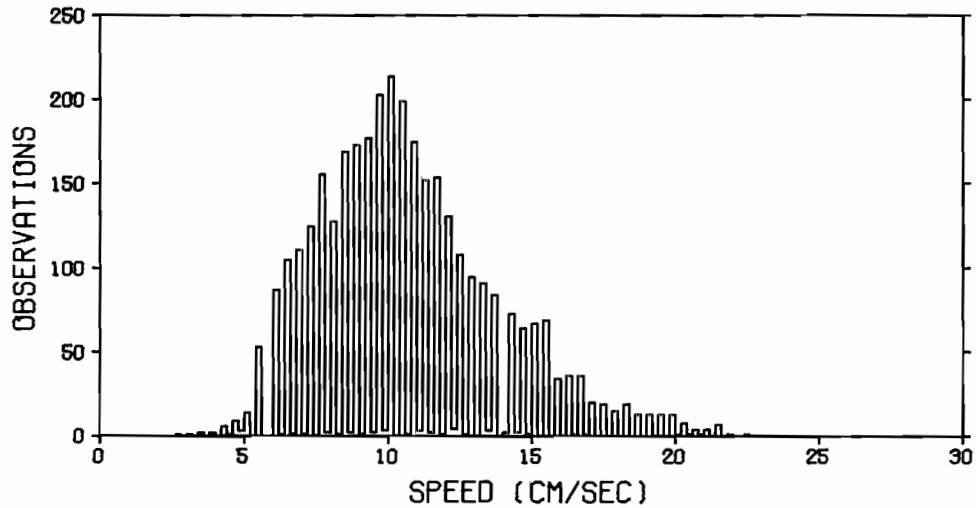


A.3. TIME SERIES ANALYSIS Current Meter 392 Nominal Depth: 50m  
 Part 2 of 2; 1 August - 26 August 1974

Mooring Designation NEGOA 60  
 Location: 60° 5.4'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

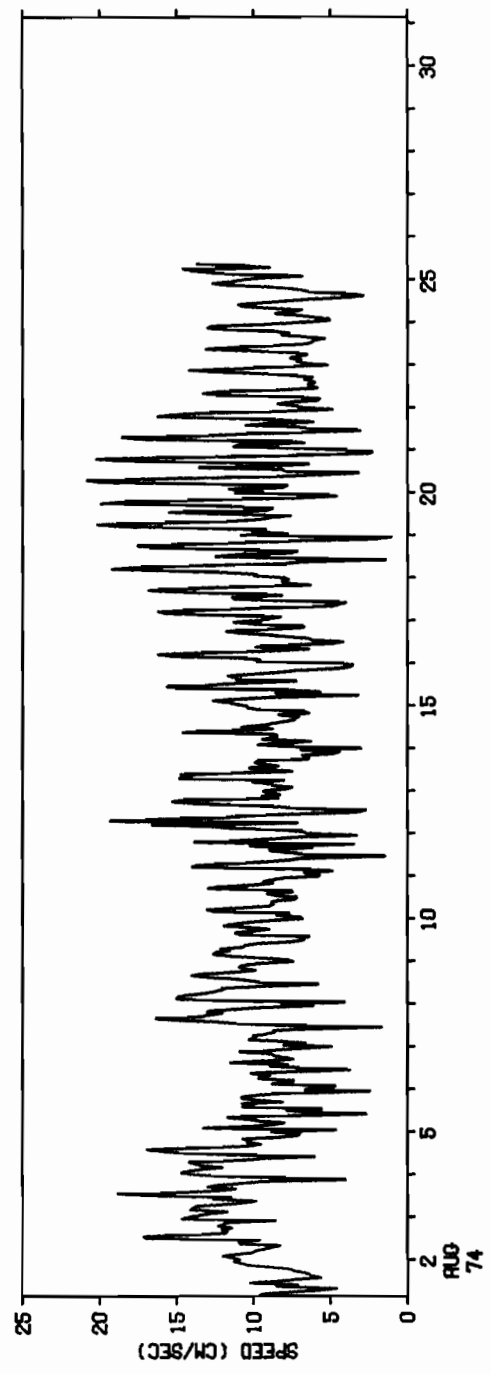
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	10.71	10.22	3.20	.688	3.38	22.41	2.73
U	-1.77	45.01	6.71	.183	1.85	14.99	-17.24
V	-1.25	75.32	8.68	.125	1.90	19.89	-20.32

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



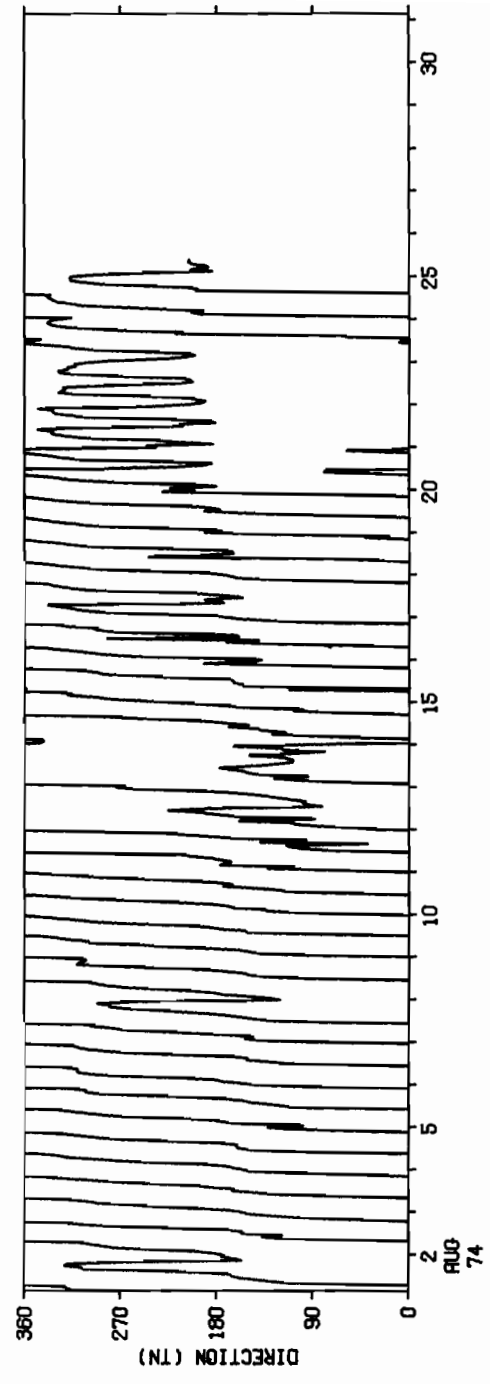
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 50.0 METERS.



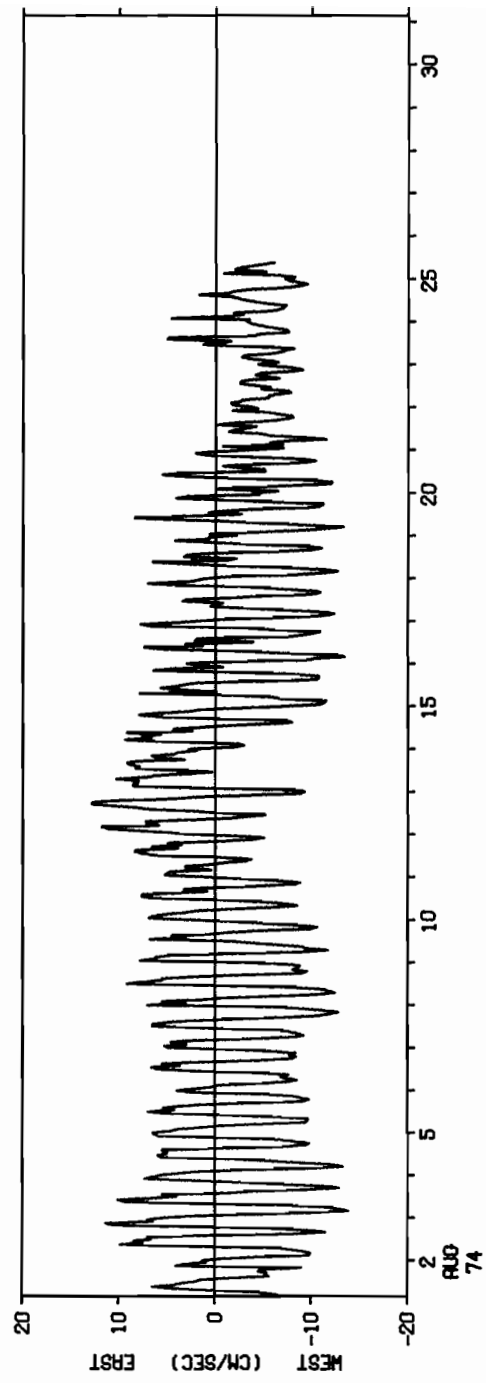
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 50.0 METERS.



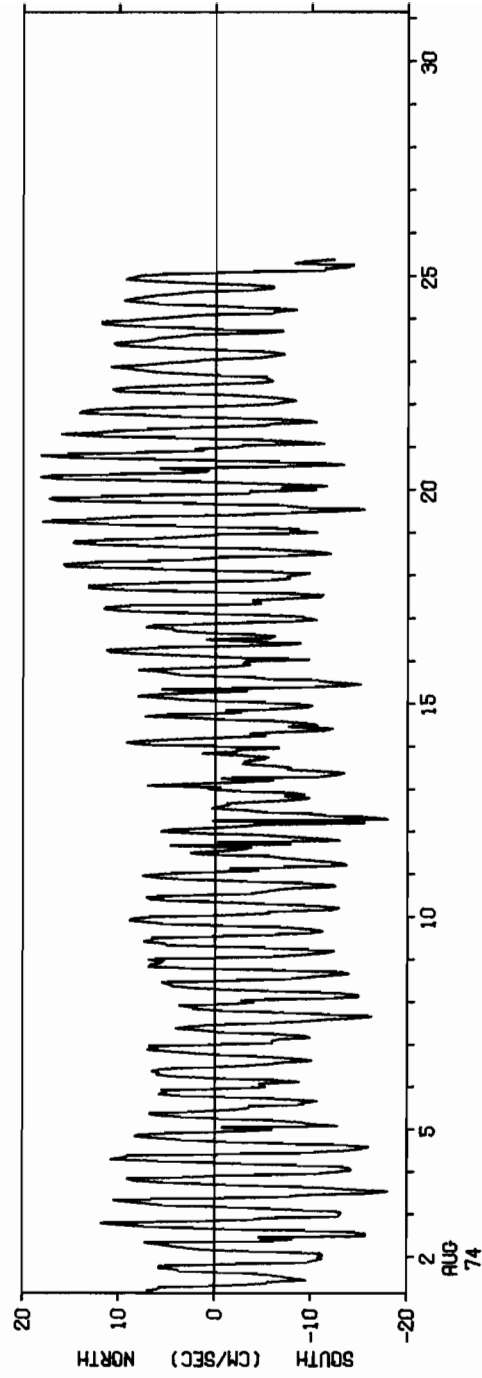
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 2 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.



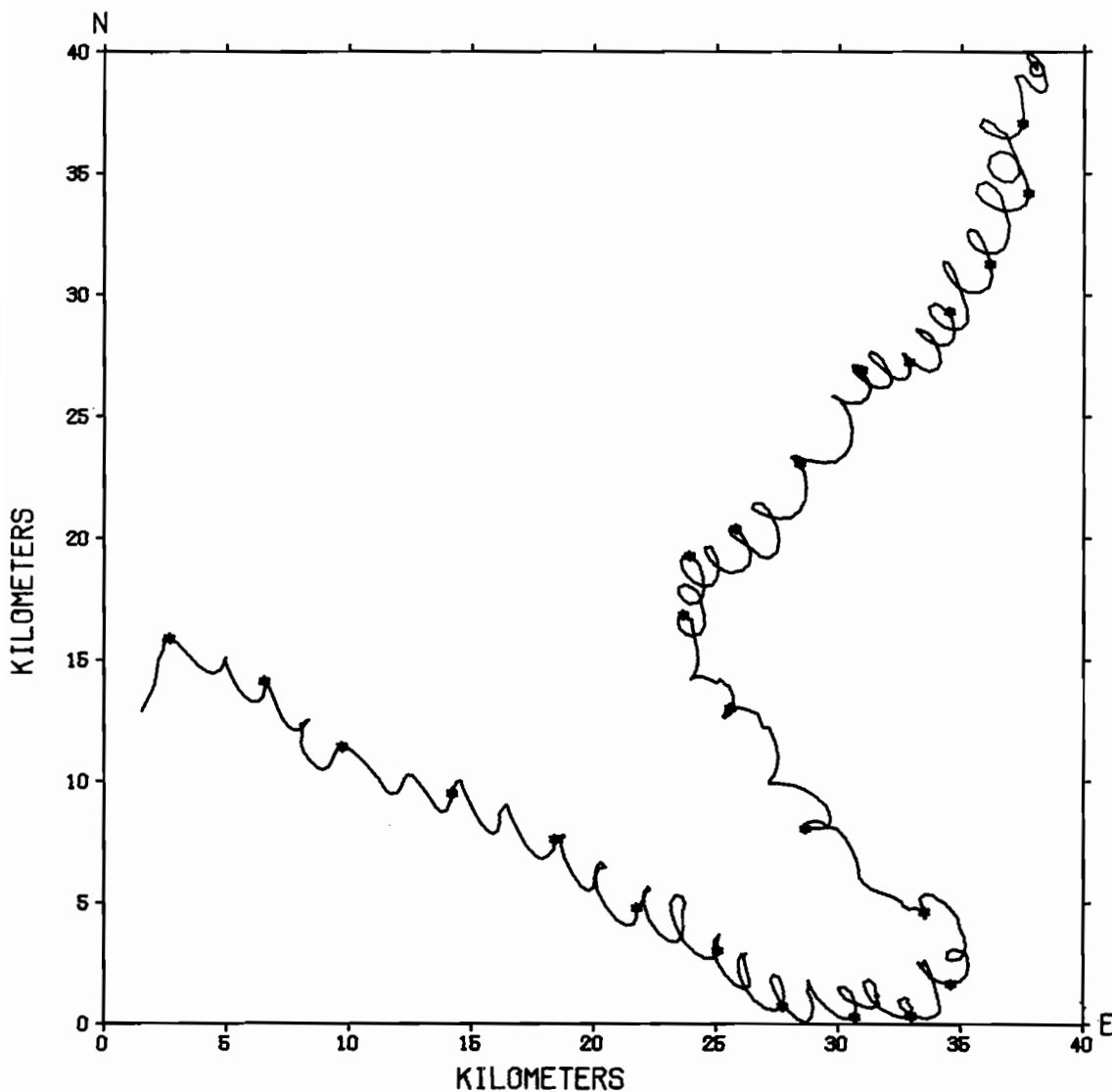
A.3. TIME SERIES ANALYSIS Current Meter 392 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.

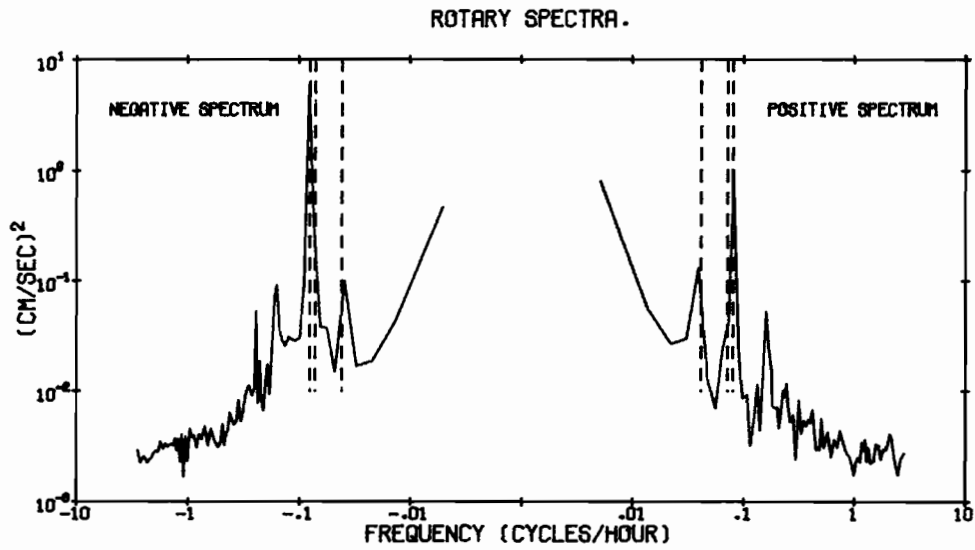
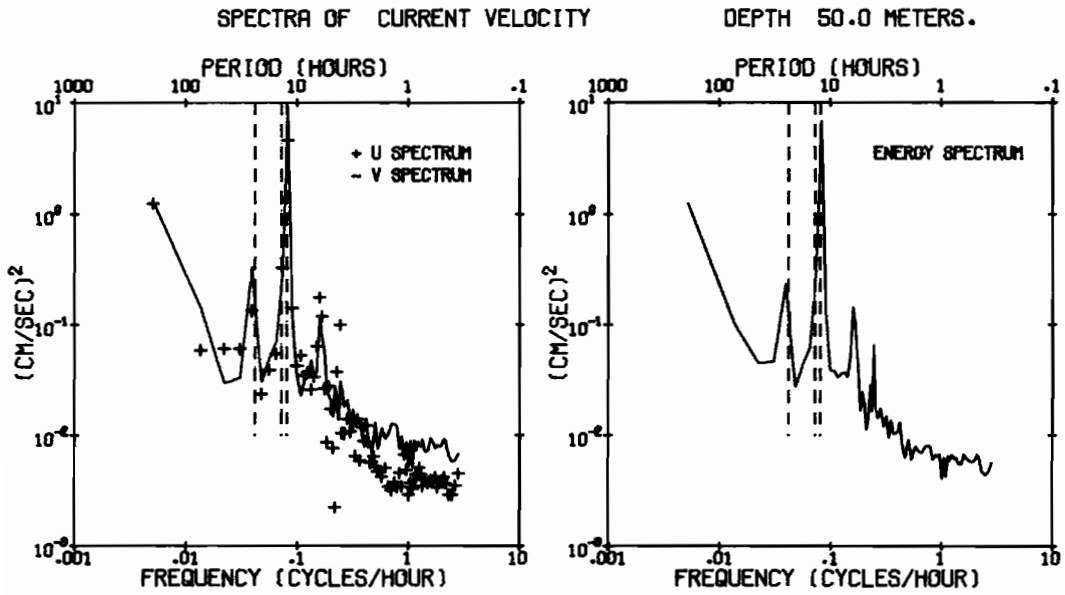


A.3. TIME SERIES ANALYSIS Current Meter 392  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEG0A - 60  
OBSERVATION PERIOD 24.3 DAYS FROM 0324 GMT 1 AUG 74.  
DEPTH 50.0 METERS.



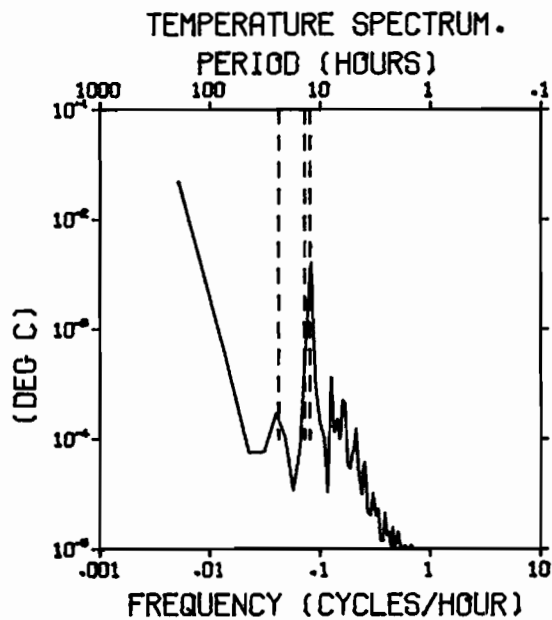
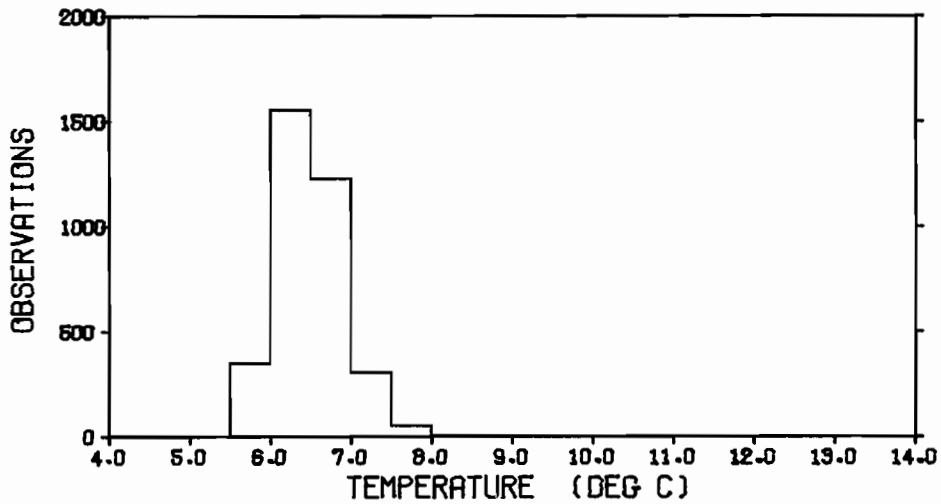
A.3. TIME SERIES ANALYSIS Current Meter 392  
Part 2 of 2 (Continued)



A.3. TIME SERIES ANALYSIS Current Meter 392  
 Part 2 of 2 (Continued)

TEMPERATURE STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
 DEPTH 50.0 METERS NUMBER OF OBSERVATIONS = 3497  
 OBSERVATION PERIOD 24.3 DAYS FROM 0324 GMT 1 AUG 74

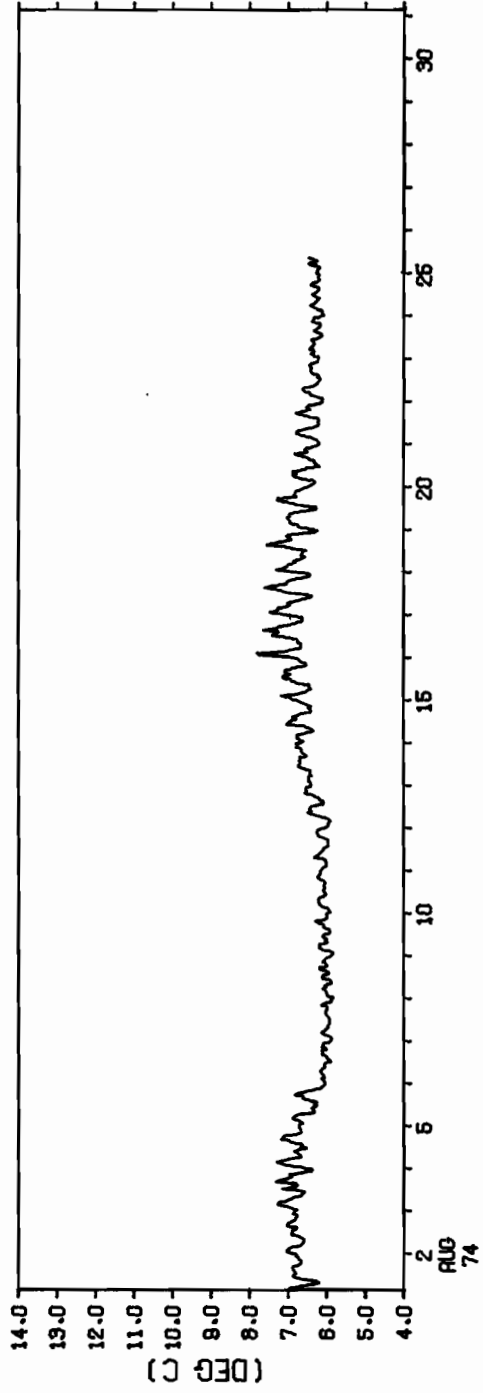
MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
6.49	.16	.40	.60	3.07	8.19	5.75





A.3. TIME SERIES ANALYSIS Current Meter 392 Part 2 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 50.0 METERS.



A.4. TIME SERIES ANALYSIS Current Meter 624 Nominal Depth: 90m  
 Part 1 of 2; 2 July - 1 August 1974

Mooring Designation NEG0A 60

Location: 60° 5.4'N 145° 47.7'W

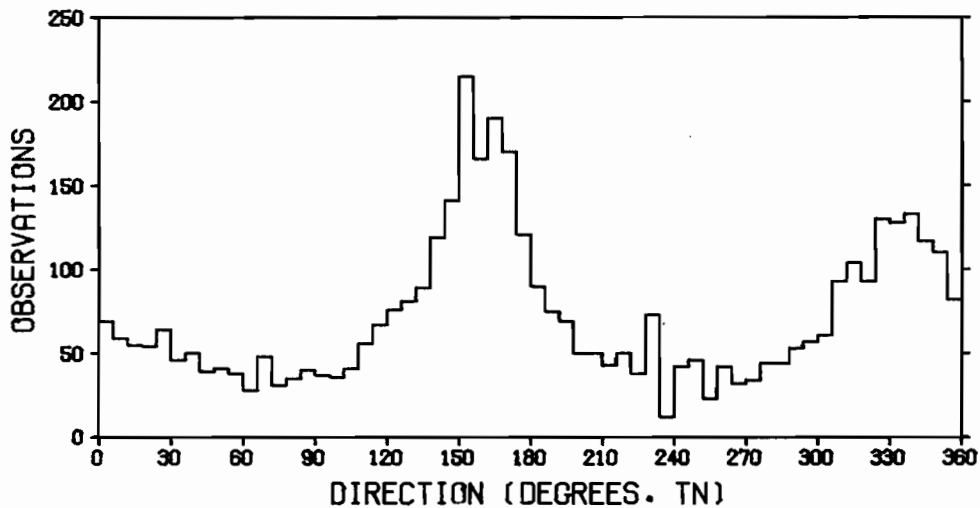
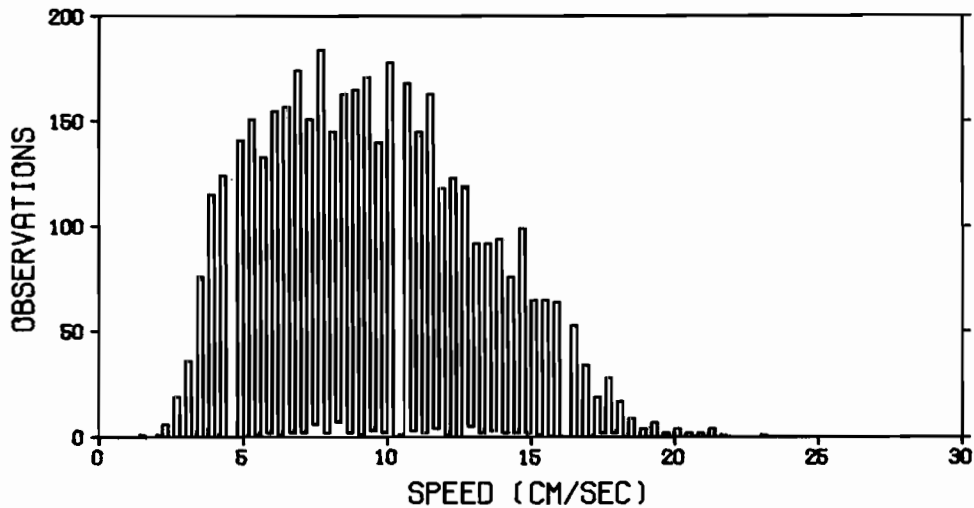
Sensors: Speed, Direction, Temperature, Conductivity

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKREW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	9.52	13.81	3.72	.358	2.47	23.03	1.50
U	.23	30.77	5.55	-.136	2.16	15.12	-14.18
V	-1.21	72.16	8.49	.070	1.99	20.45	-20.75

S = SPEED

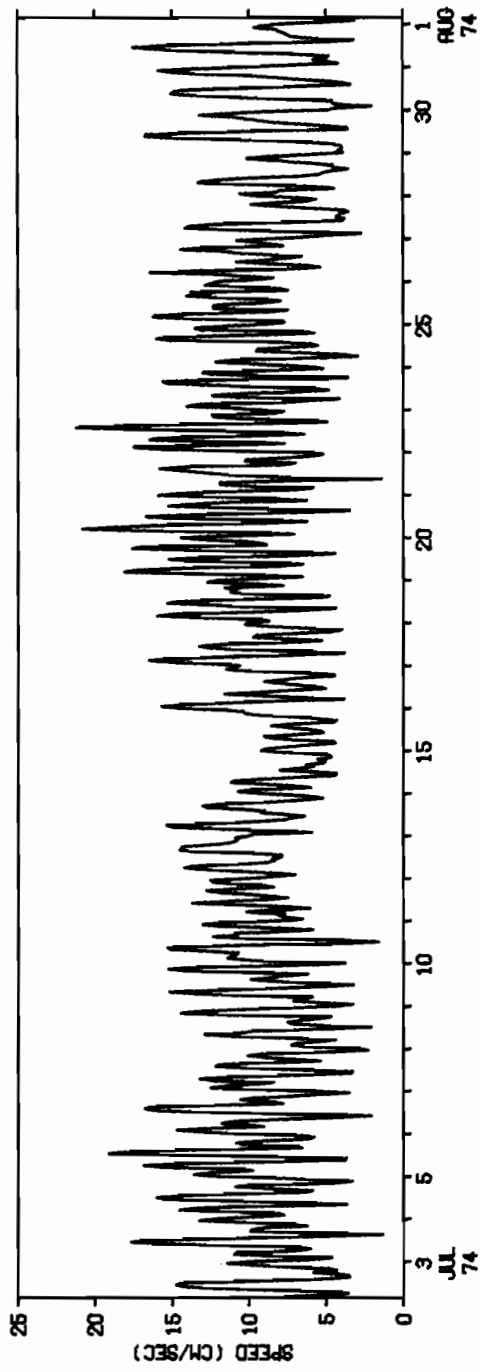
U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U

V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



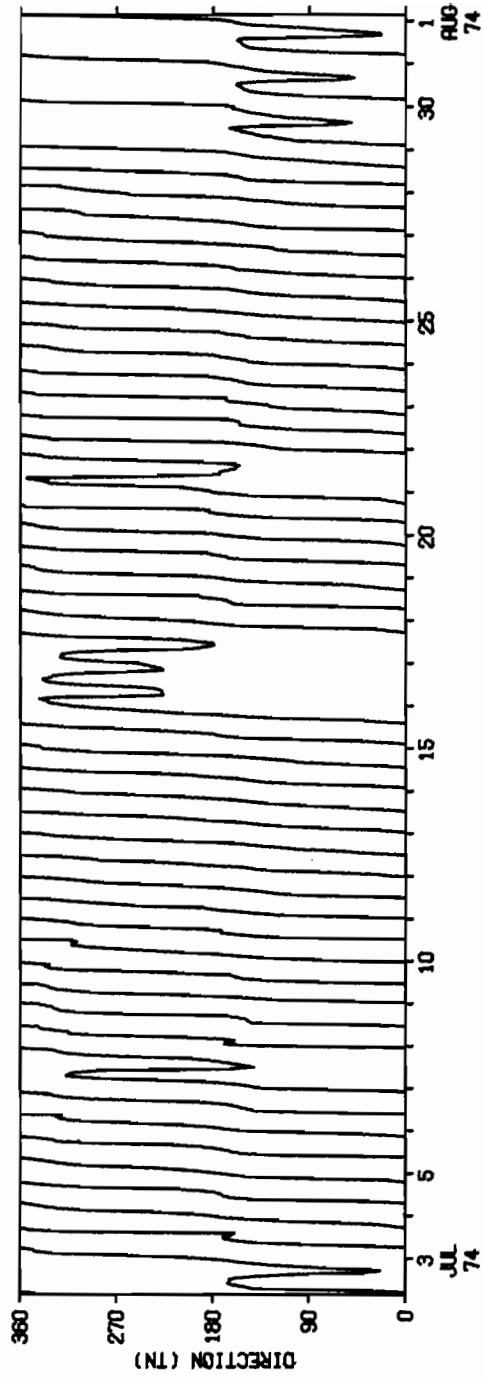
A.4. TIME SERIES ANALYSIS Current Meter 624 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 90.0 METERS.



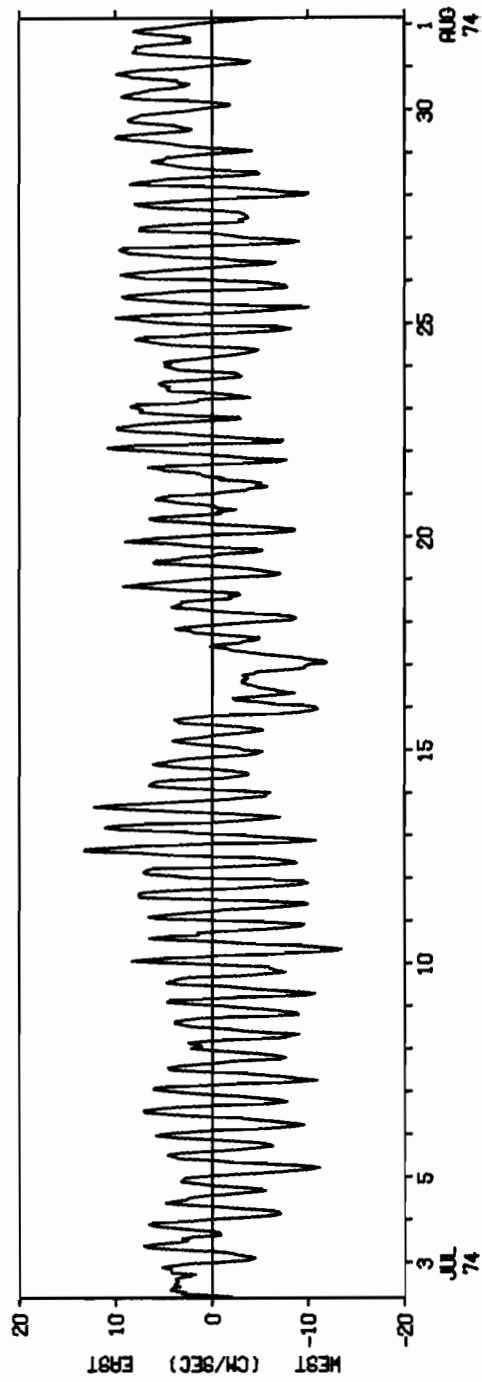
A.4. TIME SERIES ANALYSIS Current Meter 624 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 90.0 METERS.



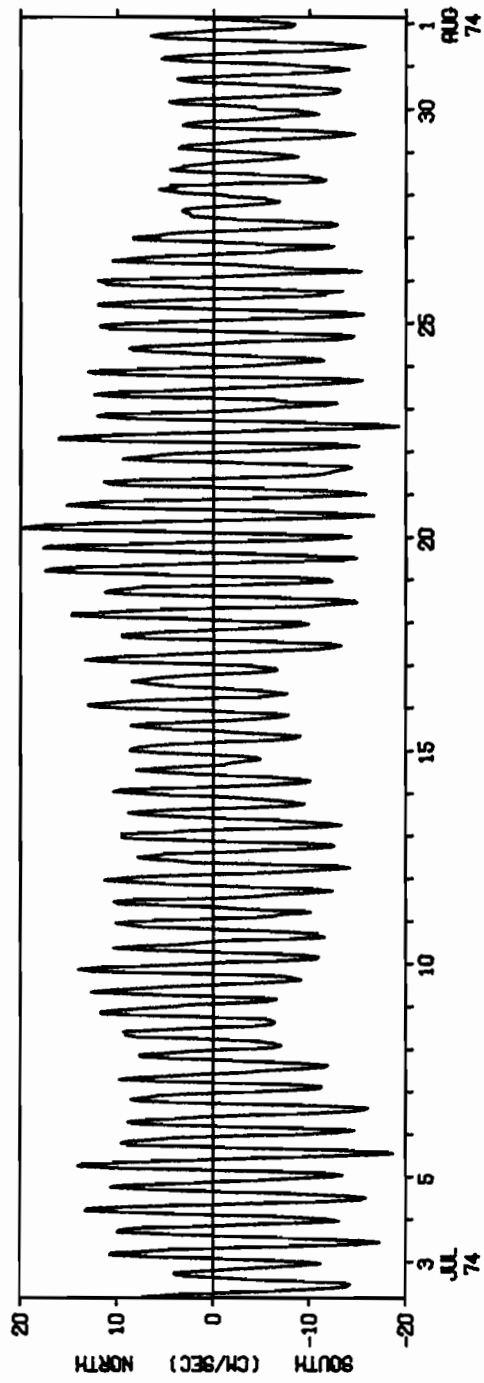
A.4. TIME SERIES ANALYSIS Current Meter 624 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 90.0 METERS.



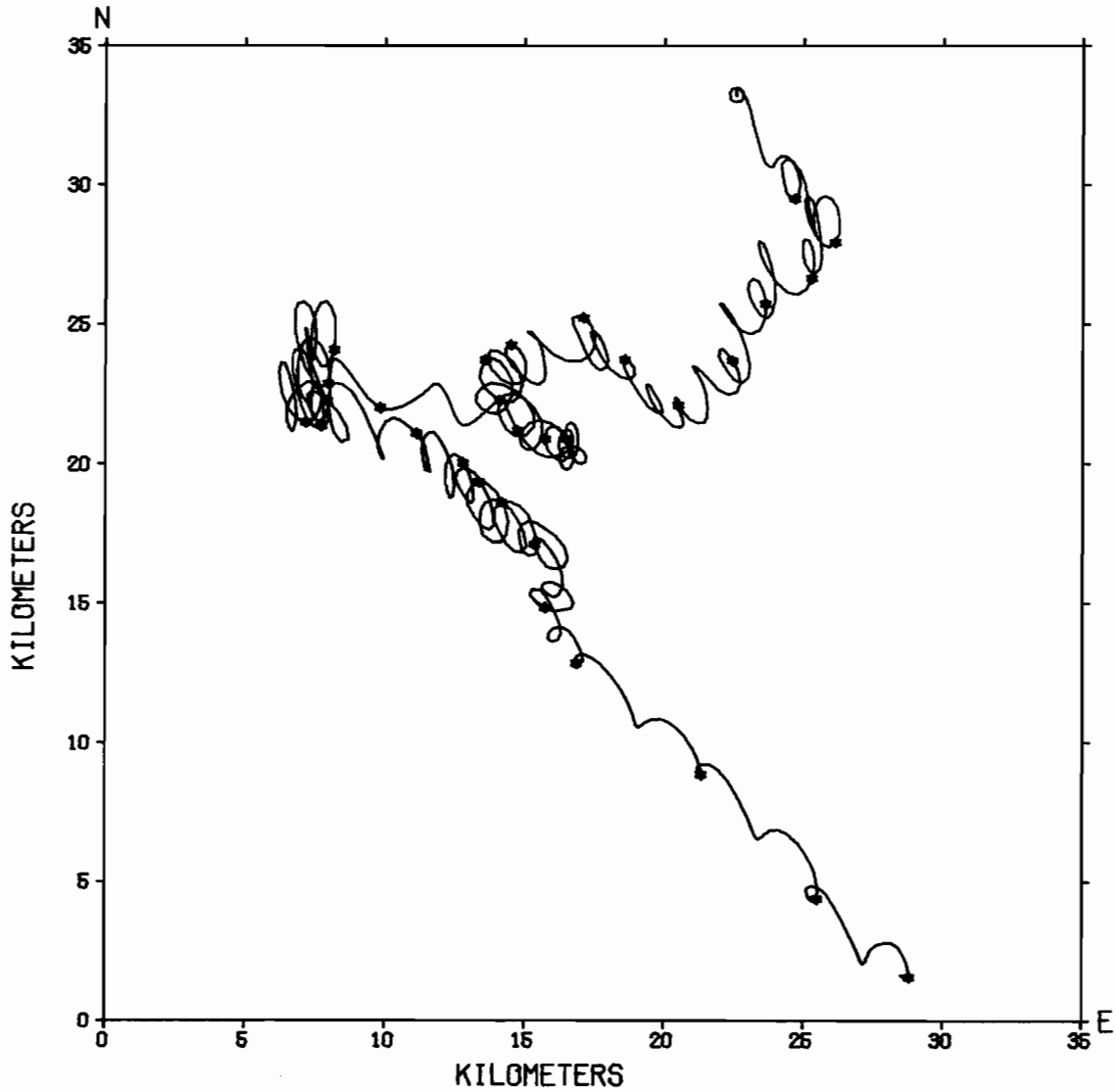
A.4. TIME SERIES ANALYSIS Current Meter 624 Part 1 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 90.0 METERS.



A.4. TIME SERIES ANALYSIS Current Meter 624  
Part 1 of 2 (Continued)

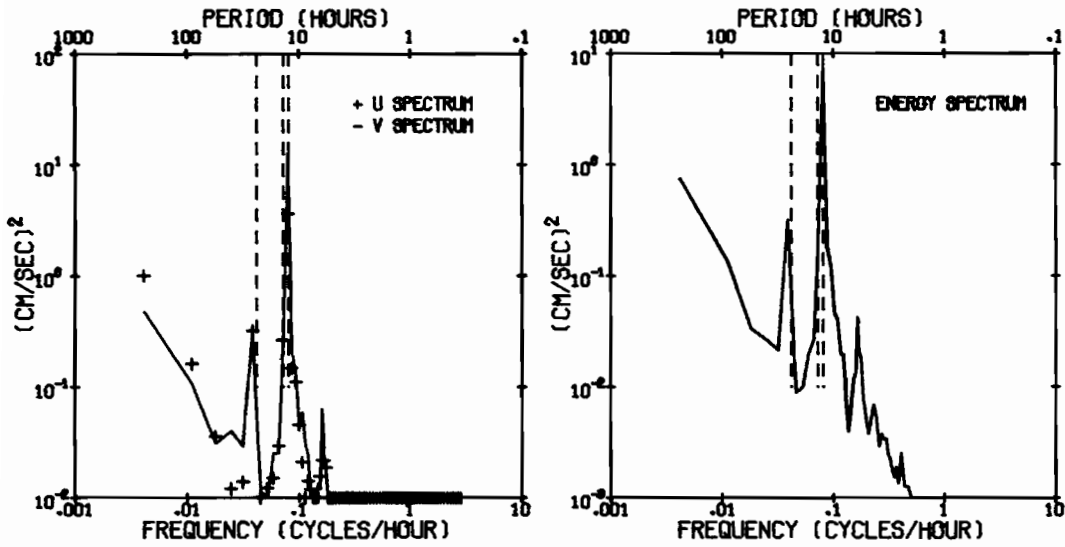
PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOA - 60  
OBSERVATION PERIOD 30.0 DAYS FROM 0336 GMT 2 JUL 74.  
DEPTH 90.0 METERS.



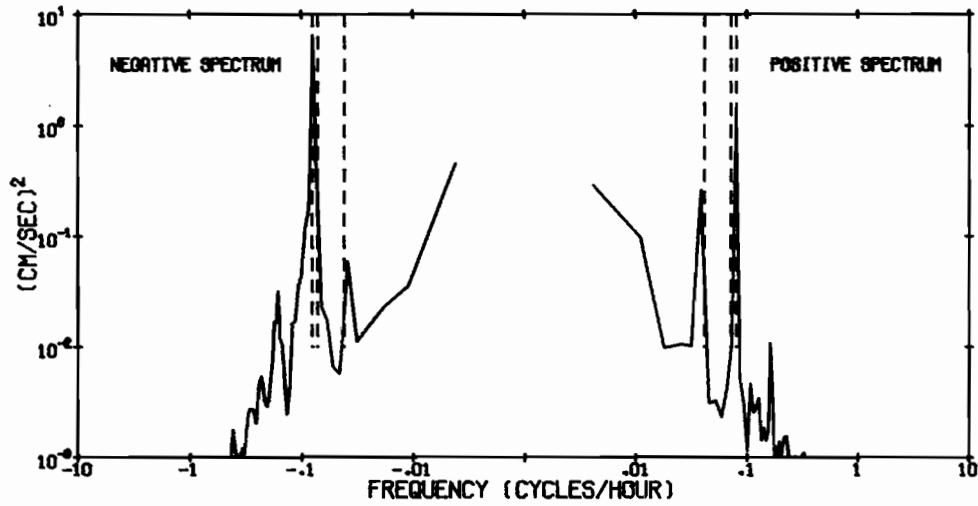
A.4. TIME SERIES ANALYSIS Current Meter 624  
 Part 1 of 2 (Continued)

SPECTRA OF CURRENT VELOCITY

DEPTH 90.0 METERS.



ROTARY SPECTRA.

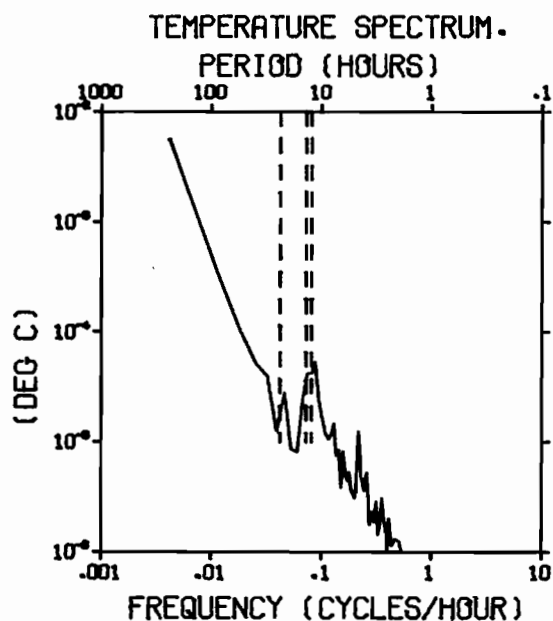
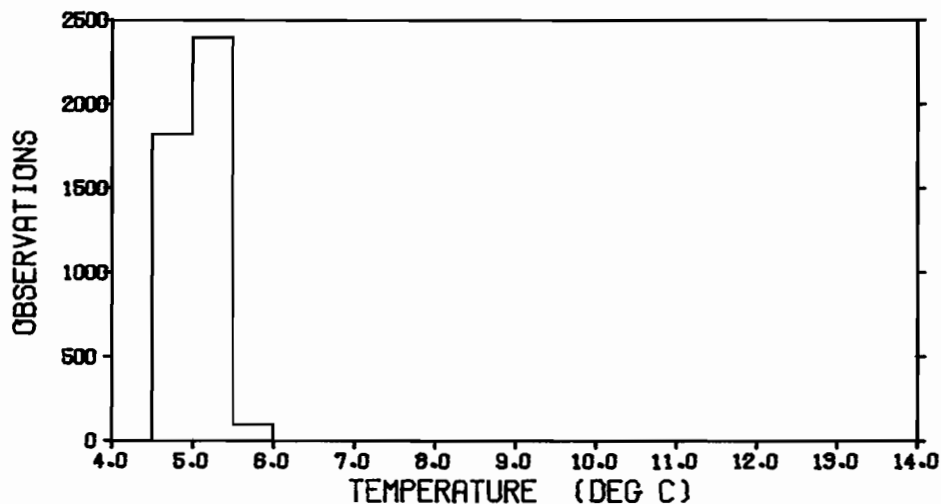




A.4. TIME SERIES ANALYSIS Current Meter 624  
Part 1 of 2 (Continued)

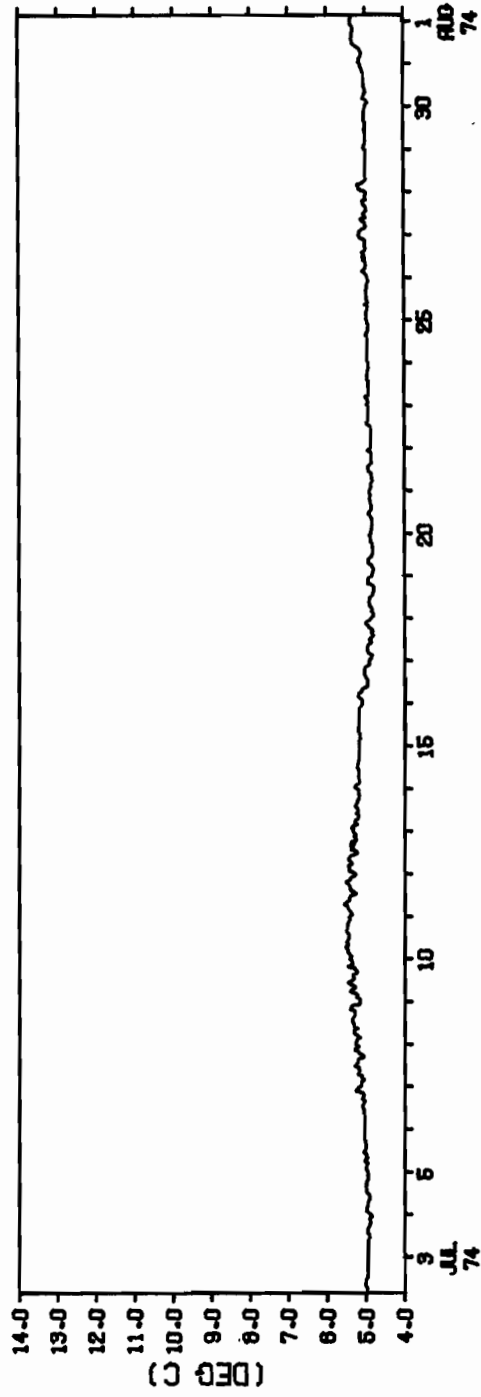
TEMPERATURE STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
DEPTH 90.0 METERS            NUMBER OF OBSERVATIONS = 4320  
OBSERVATION PERIOD 30.0 DAYS FROM 0336 GMT    2 JUL 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
5.08	.03	.18	.76	2.58	5.59	4.80



A.4. TIME SERIES ANALYSIS Current Meter 624 Part 1 of 2 (Continued)

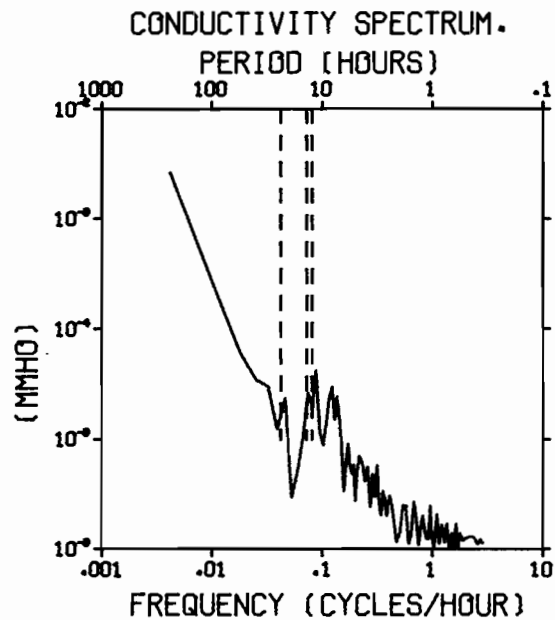
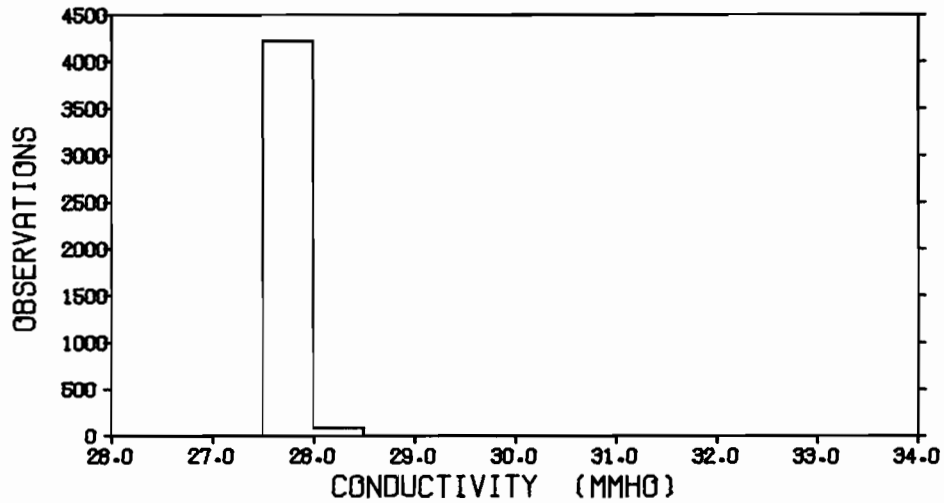
HOURLY AVERAGES OF TEMPERATURE DEPTH 90.0 METERS.



A.4. TIME SERIES ANALYSIS Current Meter 624  
 Part 1 of 2 (Continued)

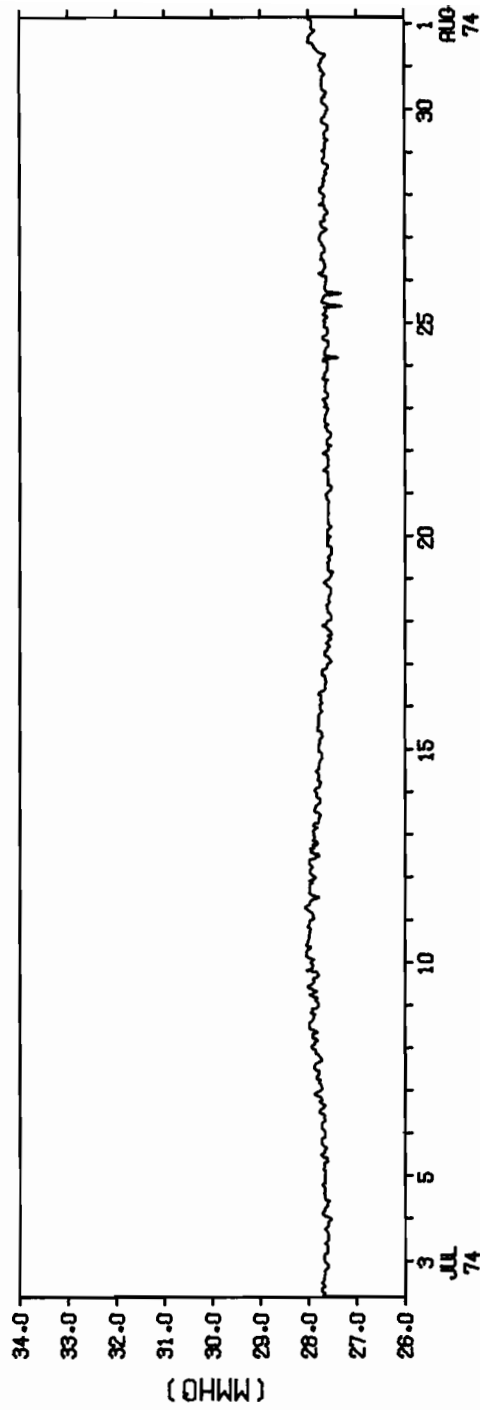
CONDUCTIVITY STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
 DEPTH 90.0 METERS NUMBER OF OBSERVATIONS = 4320  
 OBSERVATION PERIOD 30.0 DAYS FROM 0336 GMT 2 JUL 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
27.73	.02	.14	-.97	23.21	28.11	25.88



A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 90.0 METERS.

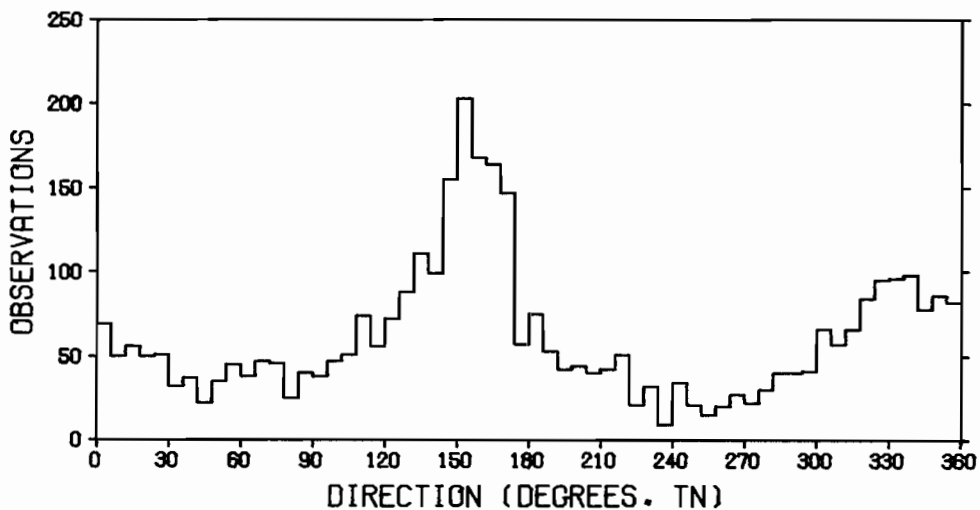
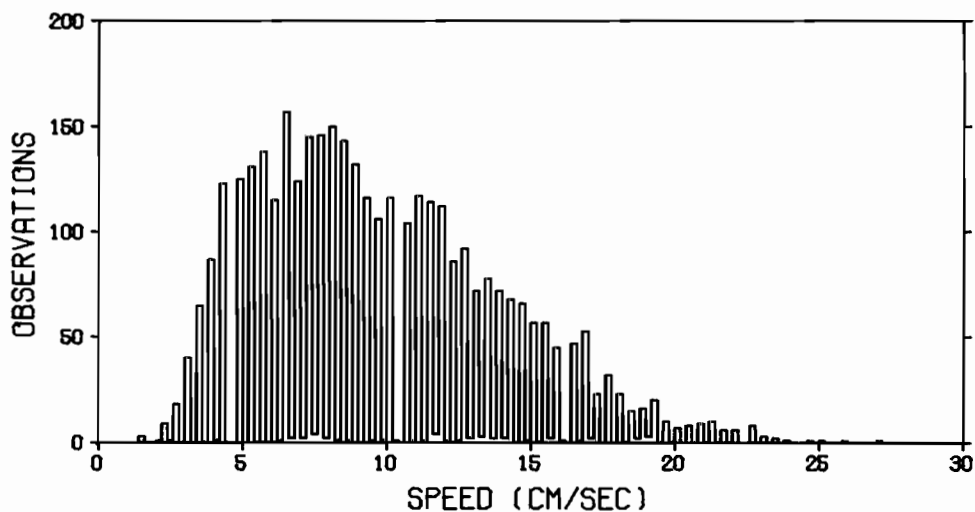


A.4. TIME SERIES ANALYSIS Current Meter 624 Nominal Depth: 90m  
 Part 2 of 2; 1 August - 26 August 1974

Mooring Designation NEGOA 60  
 Location: 60° 5.4'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature, Conductivity

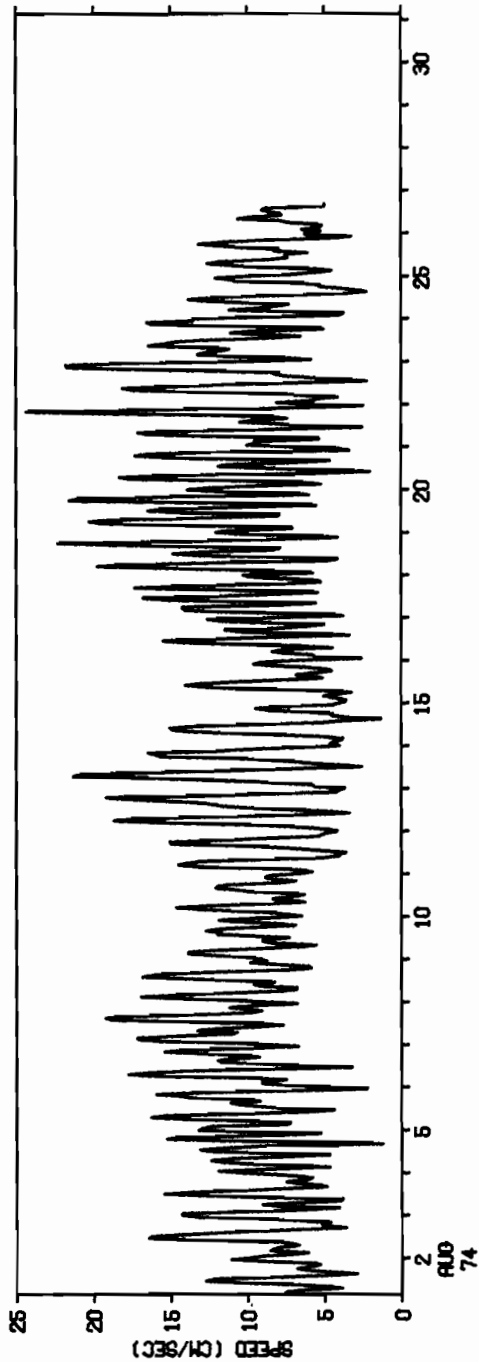
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	9.75	17.99	4.24	.631	2.95	27.17	1.50
U	.87	34.63	5.89	-.254	2.52	17.22	-17.95
V	-.97	76.71	8.76	.320	2.31	23.46	-18.72

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



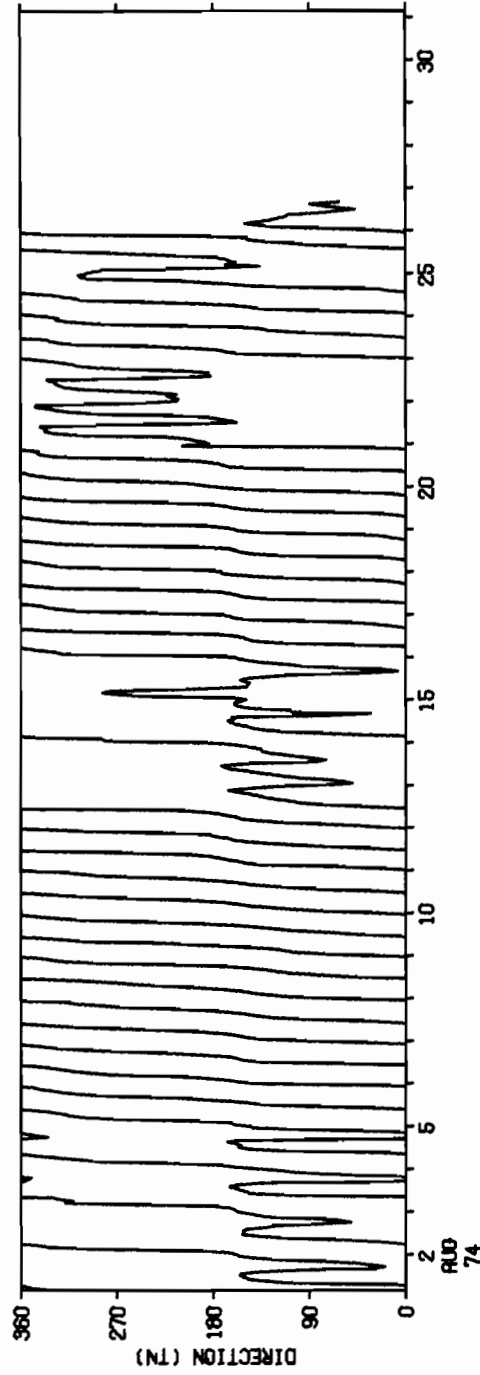
A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 90.0 METERS.



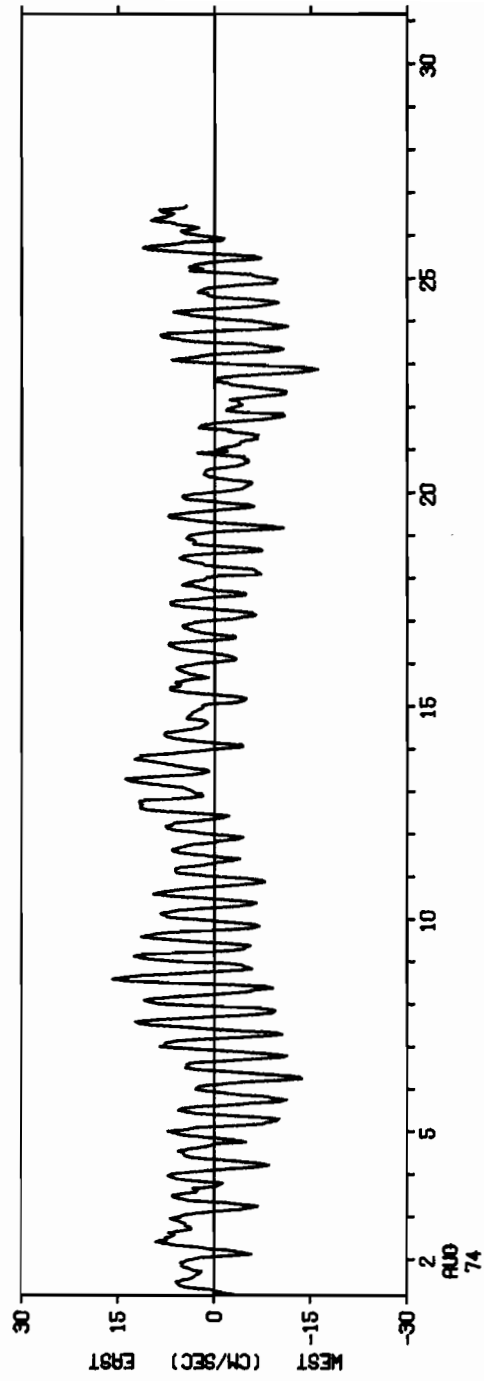
A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 90.0 METERS.



A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

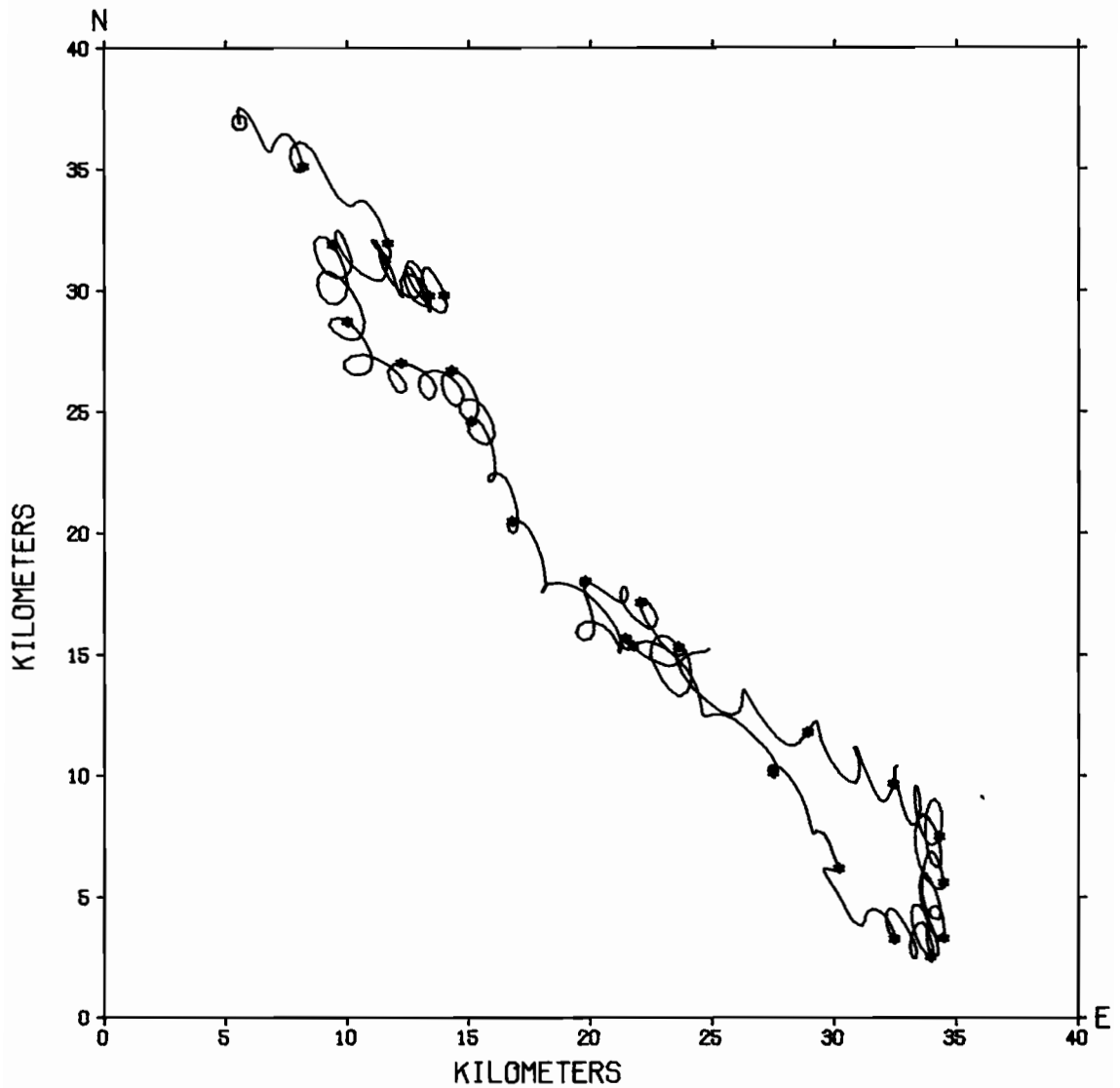
HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 90.0 METERS.





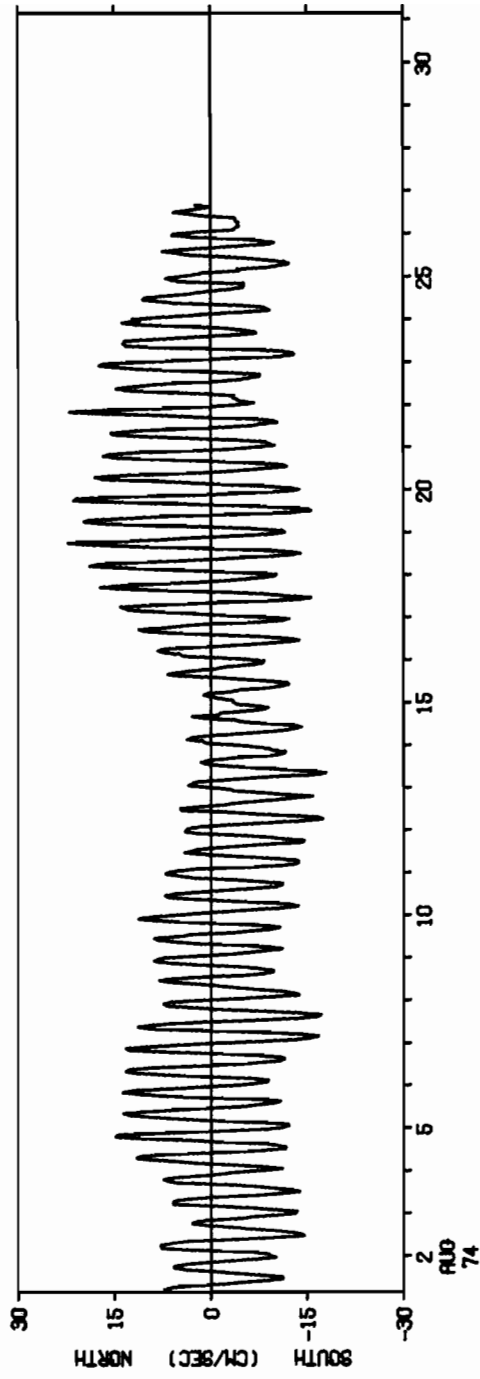
A.4. TIME SERIES ANALYSIS Current Meter 624  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 60  
OBSERVATION PERIOD 25.6 DAYS FROM 0336 GMT 1 AUG 74.  
DEPTH 90.0 METERS.

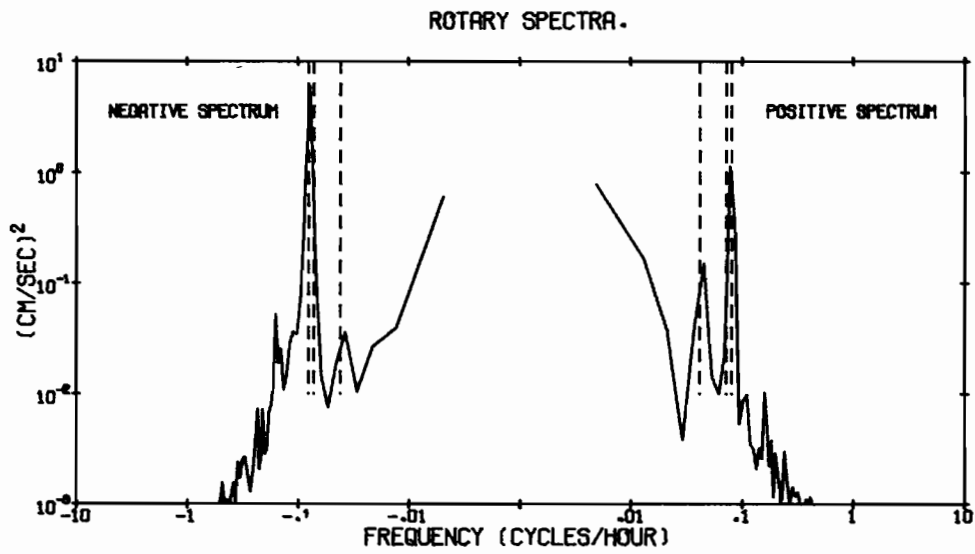
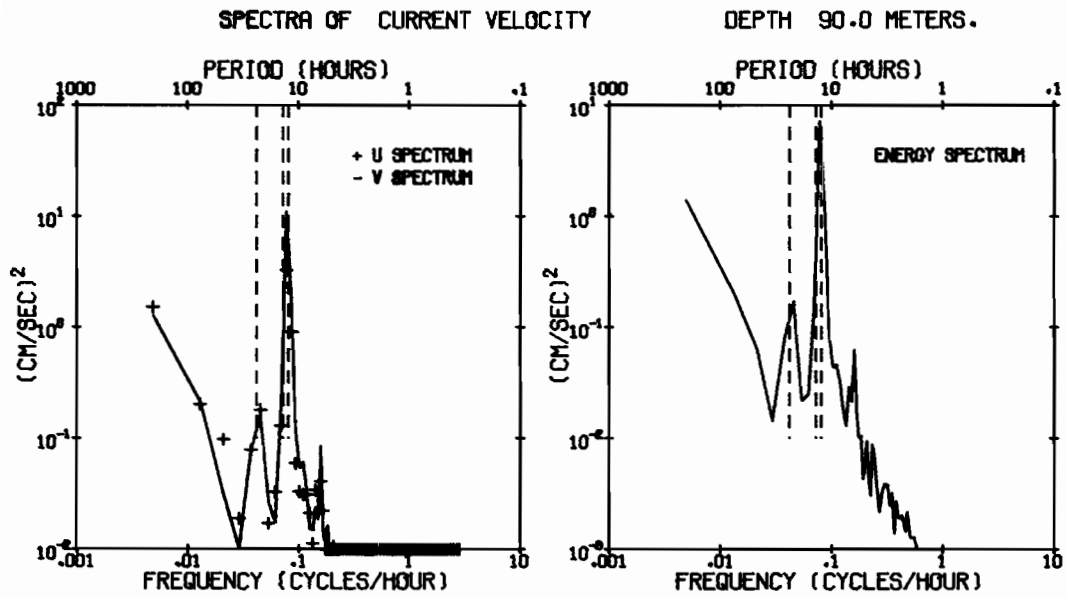


A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 90.0 METERS.



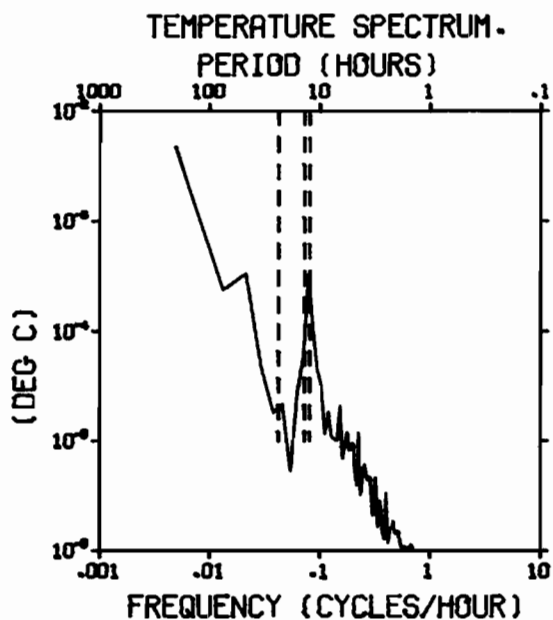
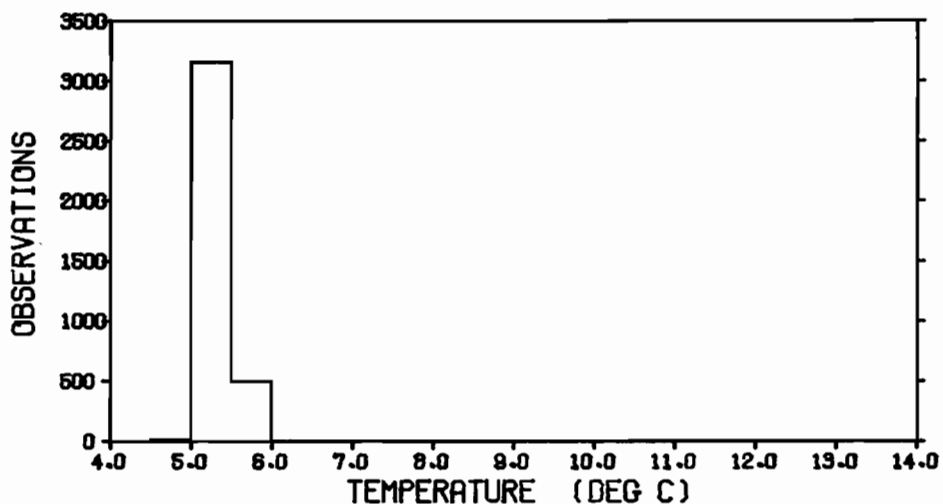
A.4. TIME SERIES ANALYSIS Current Meter 624  
Part 2 of 2 (Continued)



A.4. TIME SERIES ANALYSIS Current Meter 624  
 Part 2 of 2 (Continued)

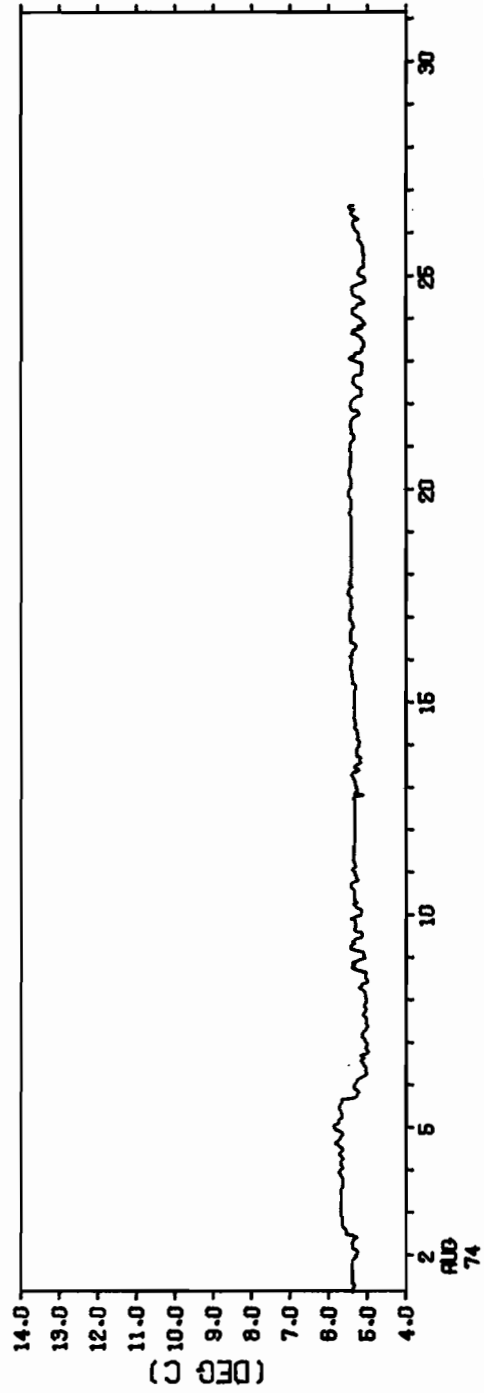
TEMPERATURE STATISTICS LAT. 60 05.4N LONG. 145 40.7W  
 DEPTH 90.0 METERS NUMBER OF OBSERVATIONS = 3680  
 OBSERVATION PERIOD 25.5 DAYS FROM 0336 GMT 1 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKREW	KURT	MAX (DEG C)	MIN (DEG C)
5.35	.03	.18	.25	3.04	5.88	4.98



A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

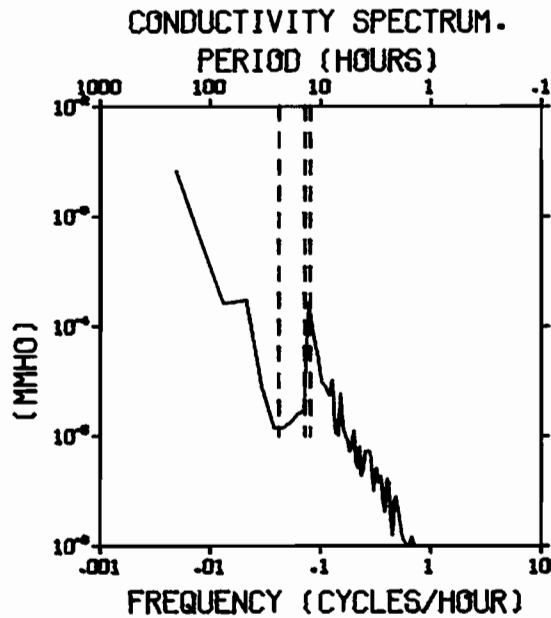
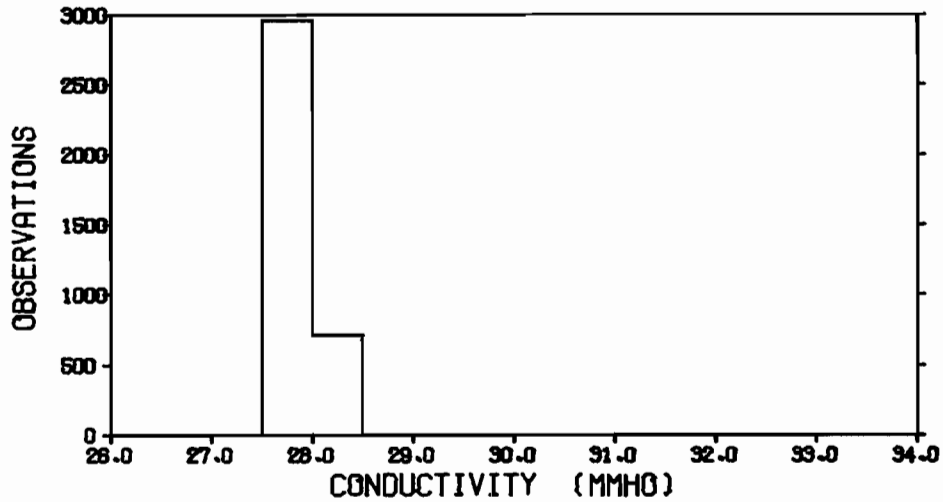
HOURLY AVERAGES OF TEMPERATURE DEPTH 90.0 METERS.



A.4. TIME SERIES ANALYSIS Current Meter 624  
 Part 2 of 2 (Continued)

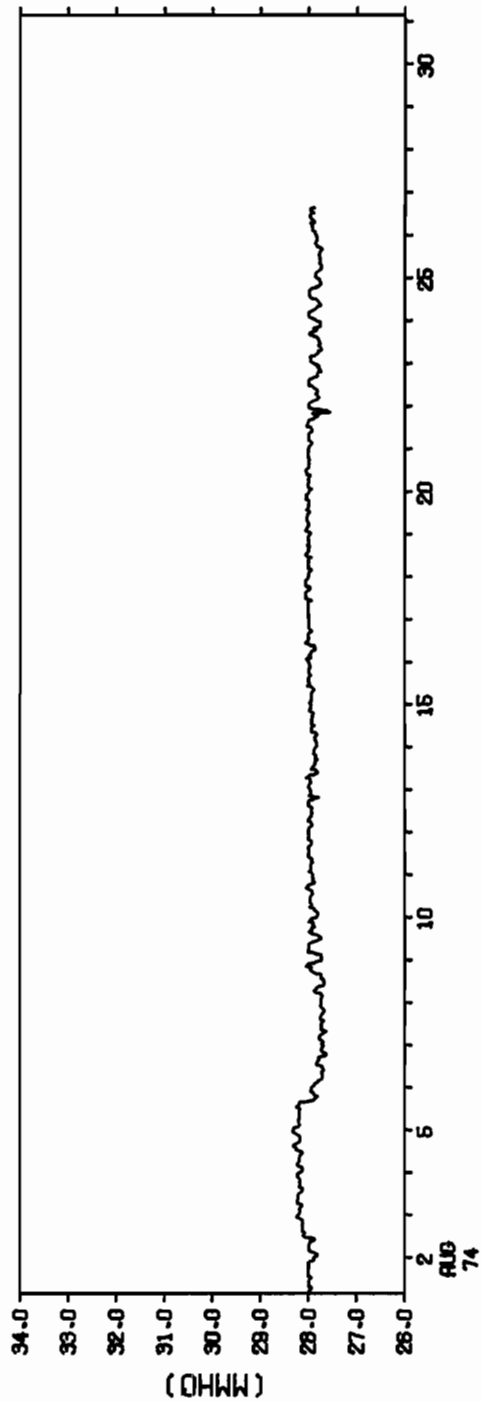
CONDUCTIVITY STATISTICS      LAT. 60 05.4N    LONG. 145 40.7W  
 DEPTH 90.0 METERS            NUMBER OF OBSERVATIONS = 3680  
 OBSERVATION PERIOD 25.5 DAYS FROM 0336 GMT 1 AUG 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
27.93	.02	.14	.11	3.12	28.37	27.41



A.4. TIME SERIES ANALYSIS Current Meter 624 Part 2 of 2 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 90.0 METERS.







APPENDIX B  
TIME SERIES ANALYSIS OF DATA FROM  
NEGOA 61

- B.1. Current Meter 604 at 20 meters
- B.2. Current Meter 601 at 30 meters\*
- B.3. Current Meter 711 at 50 meters
- B.4. Current Meter 603 at 100 meters
- B.5. Current Meter 602 at 162 meters

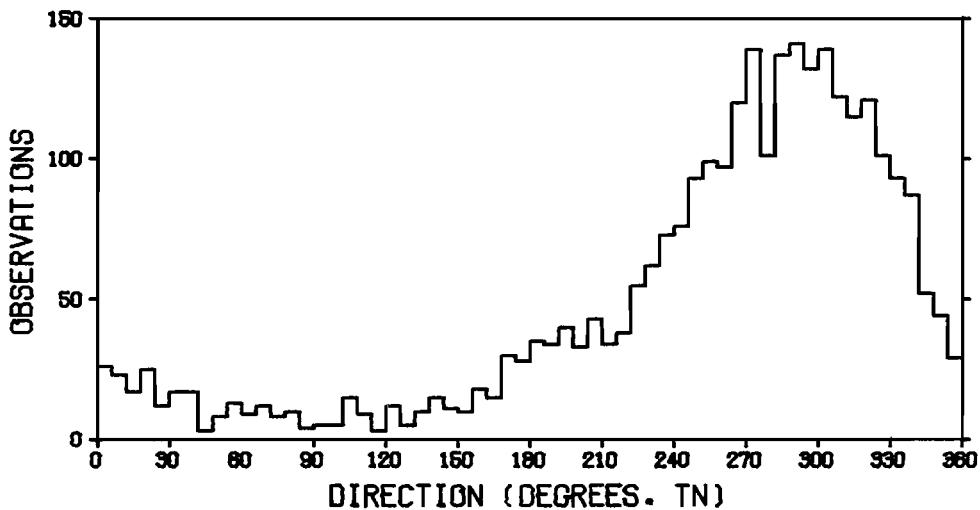
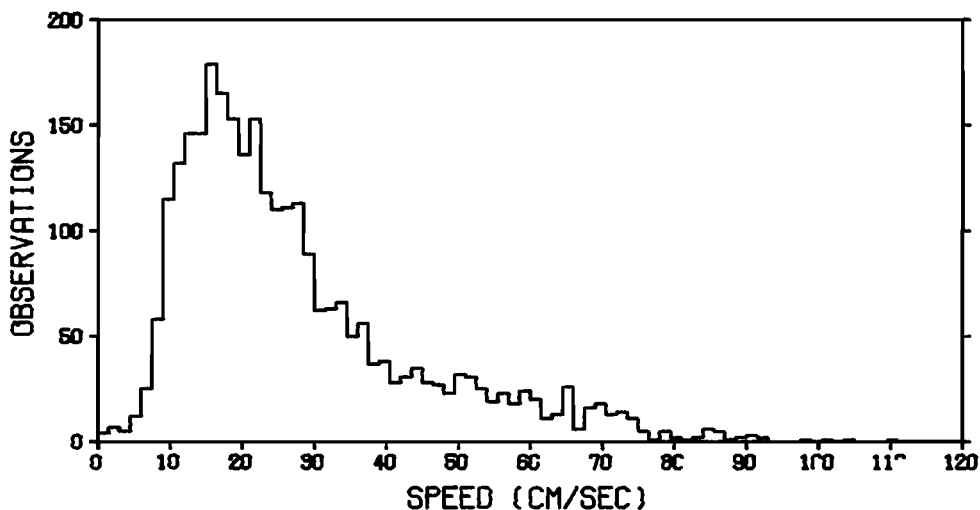
\*Rotor defective for this instrument.

B.1. TIME SERIES ANALYSIS Current Meter 604 Nominal Depth: 20m  
 Part 1 of 2; 16 August - 15 October 1974

Mooring Designation NEGOA 61  
 Location: 59° 34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature, Conductivity, Pressure

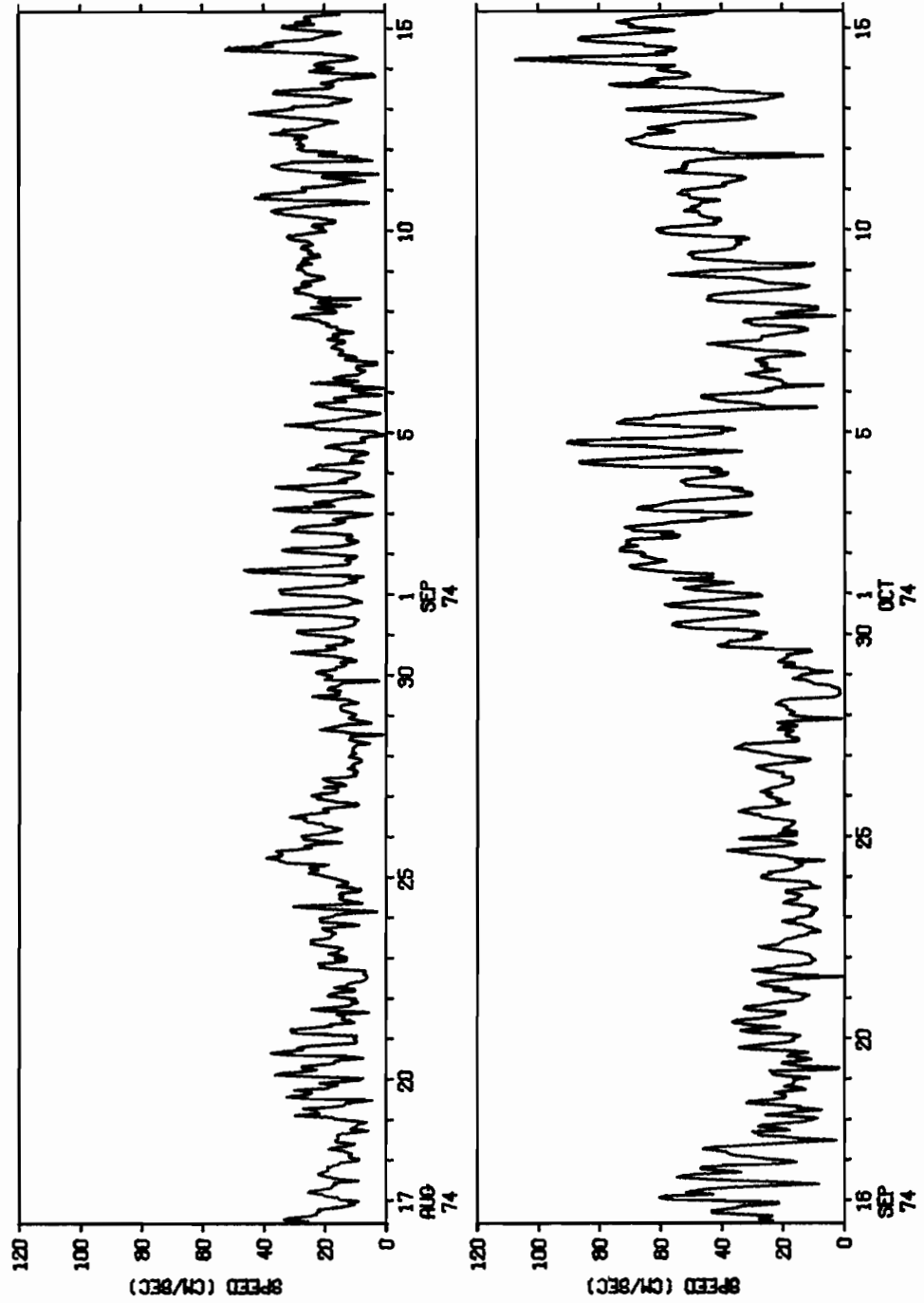
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	27.51	283.63	16.84	1.341	4.59	110.70	1.50
U	-18.21	360.19	18.98	-.766	3.77	33.72	-90.52
V	4.12	331.68	18.21	.172	4.12	97.50	-61.82

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V

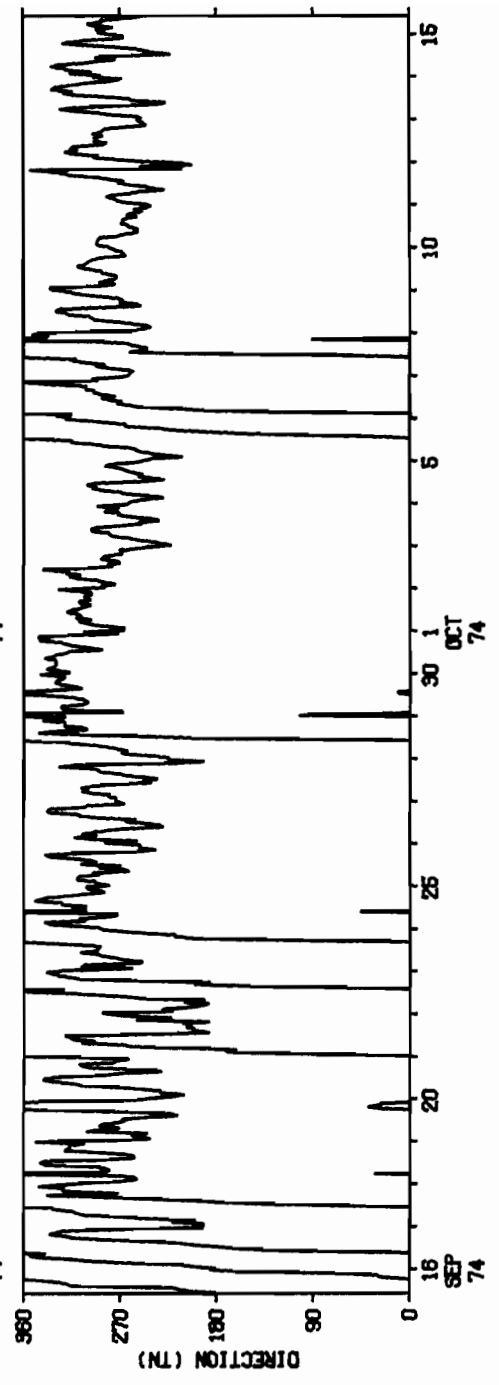
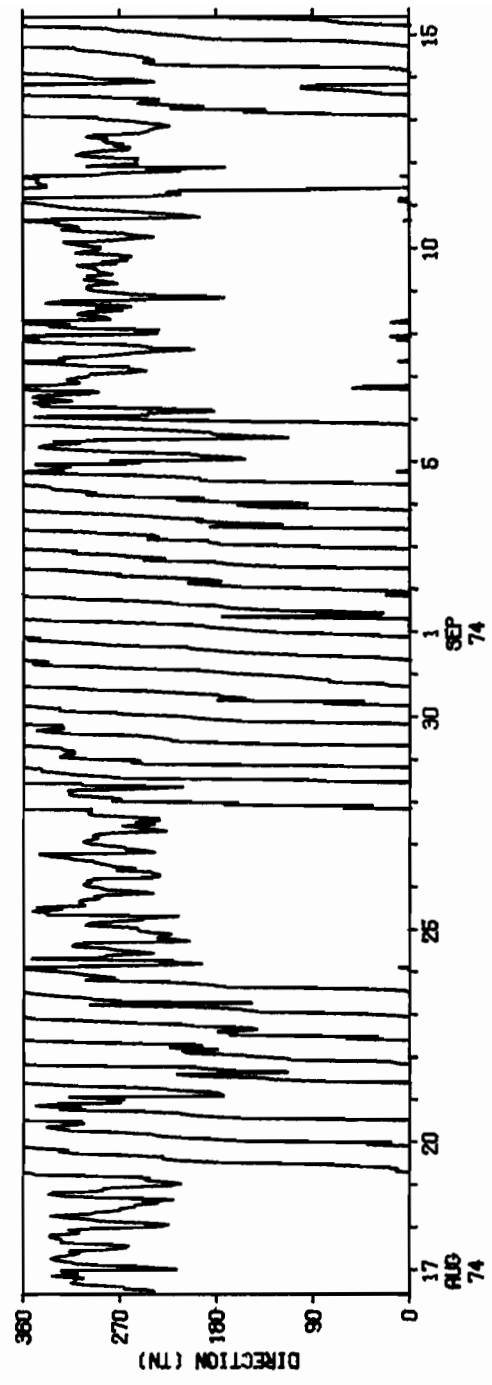


B.1. TIME SERIES ANALYSIS Current Meter 604 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 20.0 METERS.

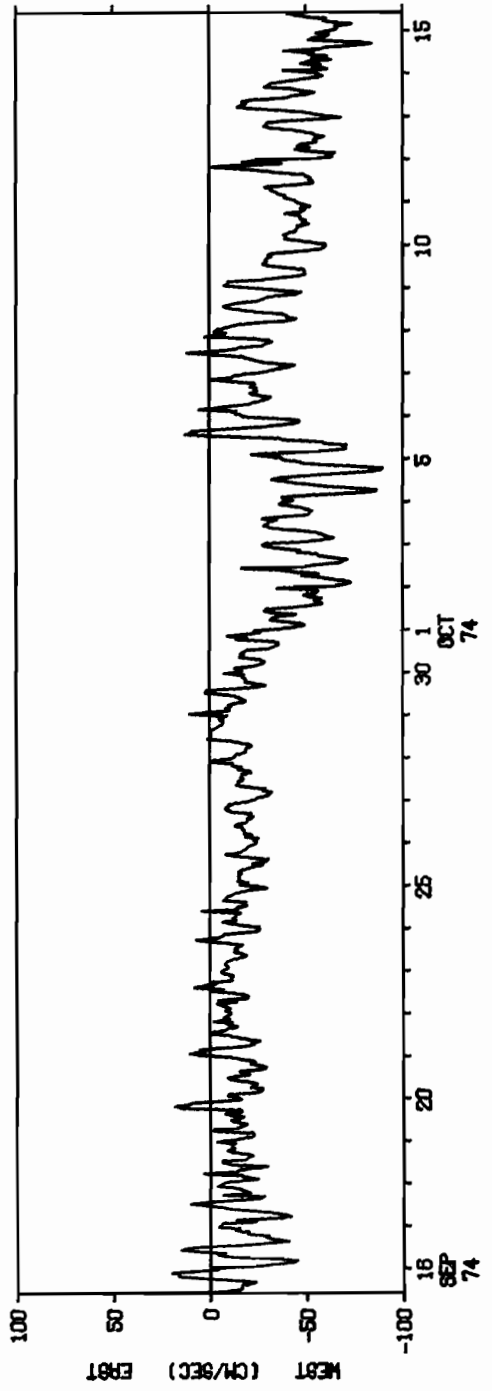
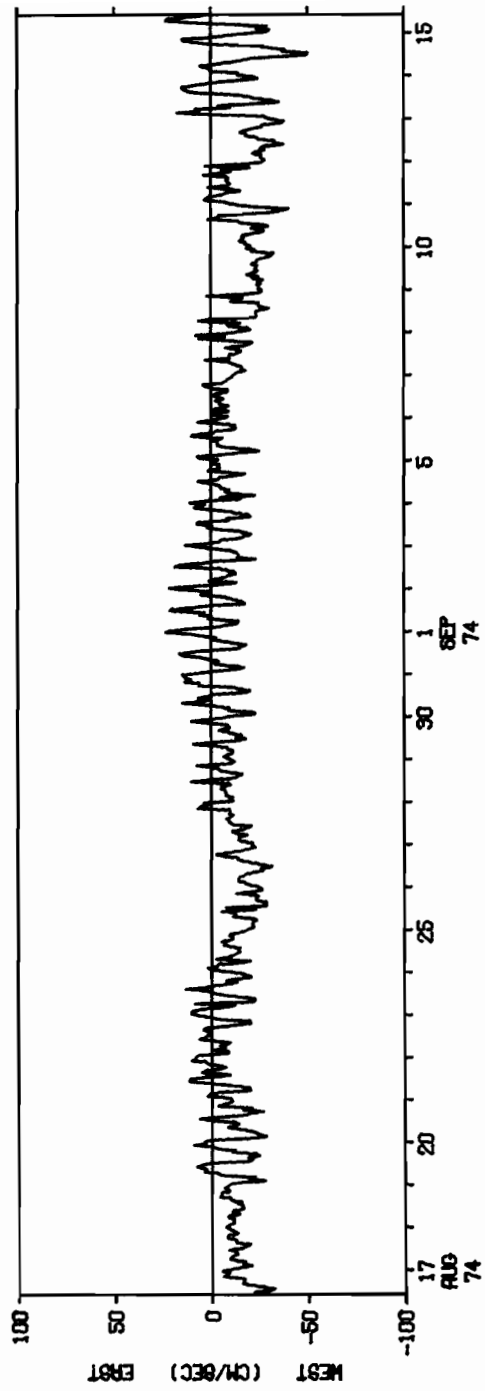


HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 20.0 METERS.



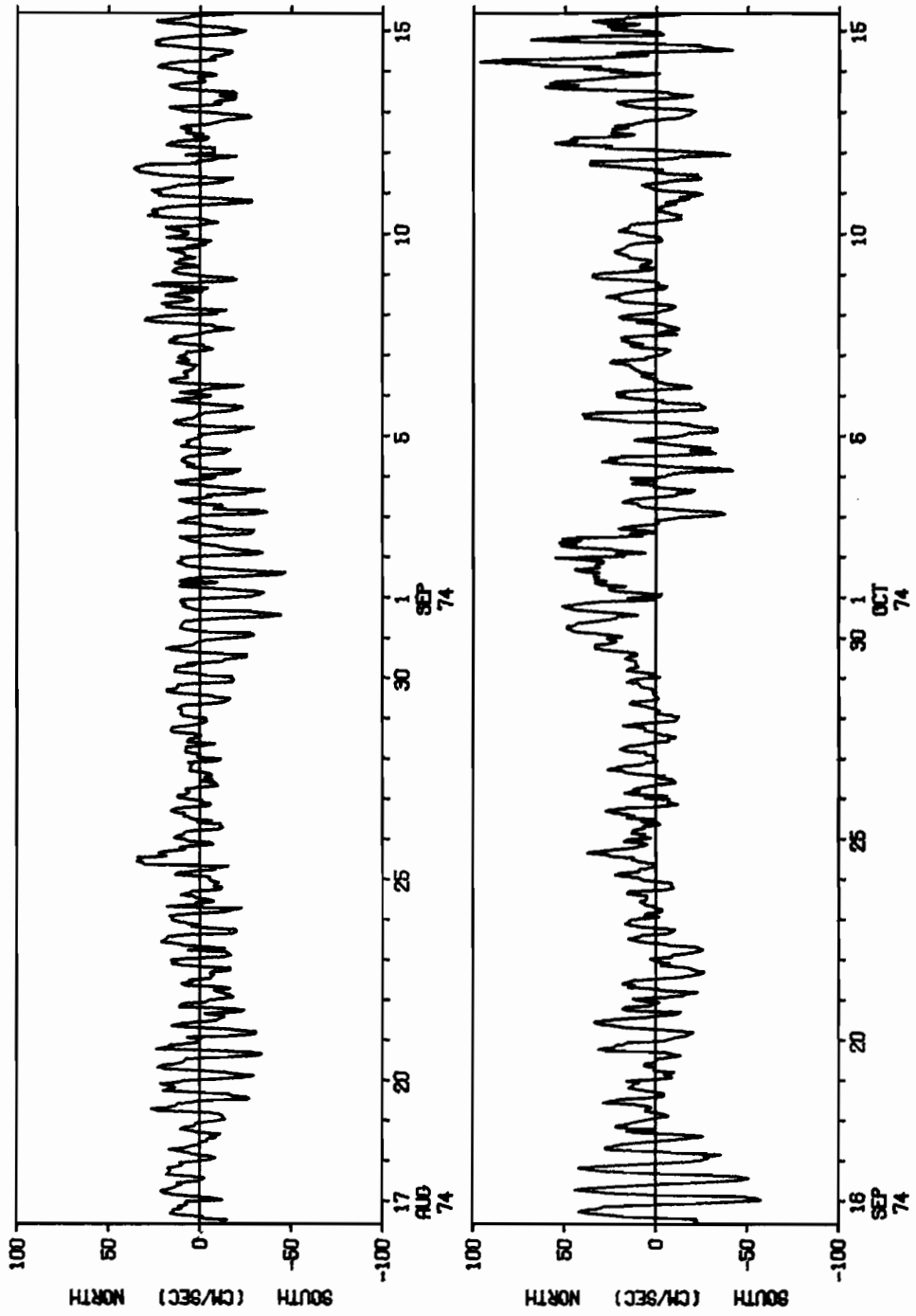
B.1. TIME SERIES ANALYSIS Current Meter 604 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.



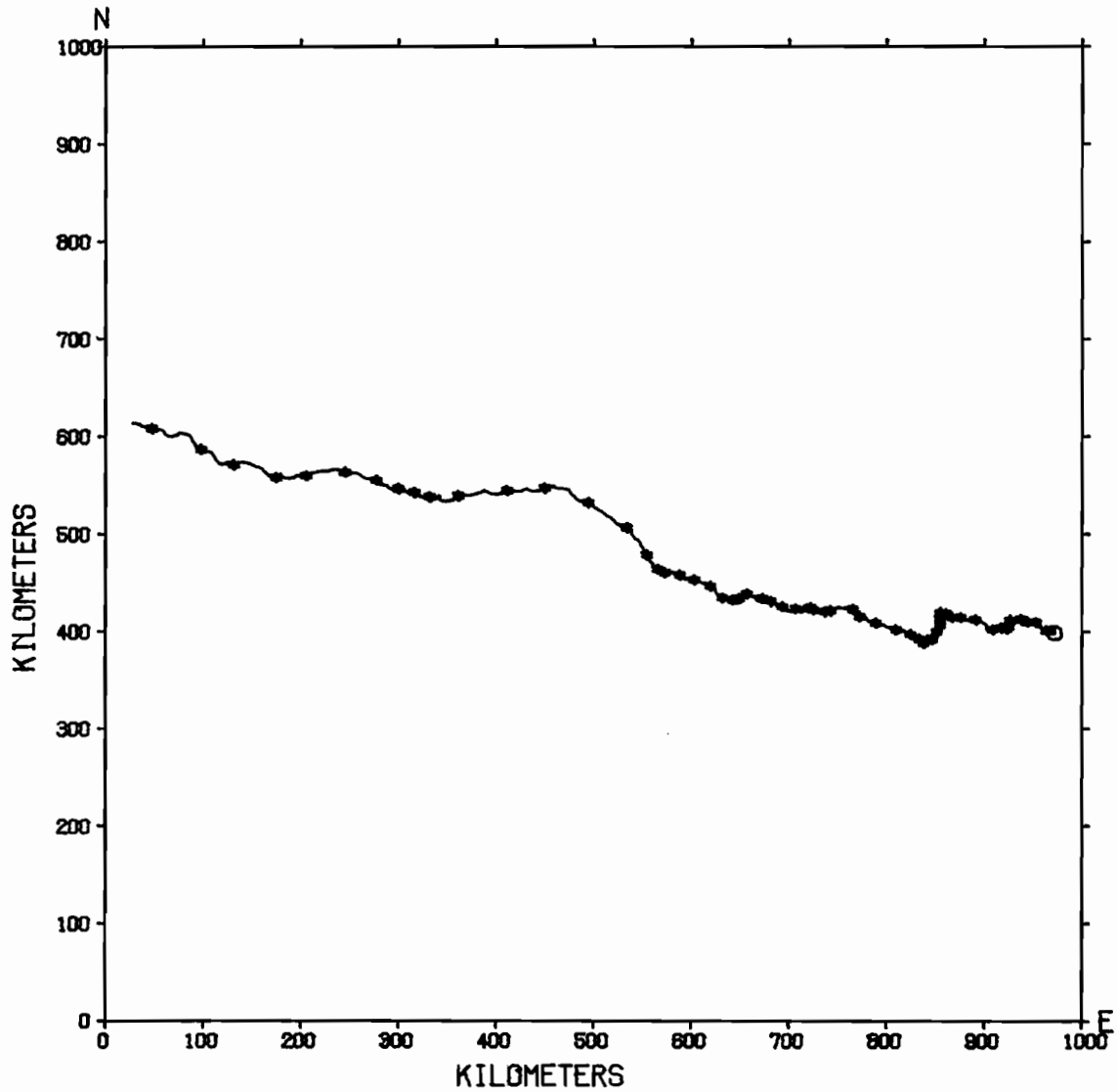
B.1. TIME SERIES ANALYSIS Current Meter 604 Part 1 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.

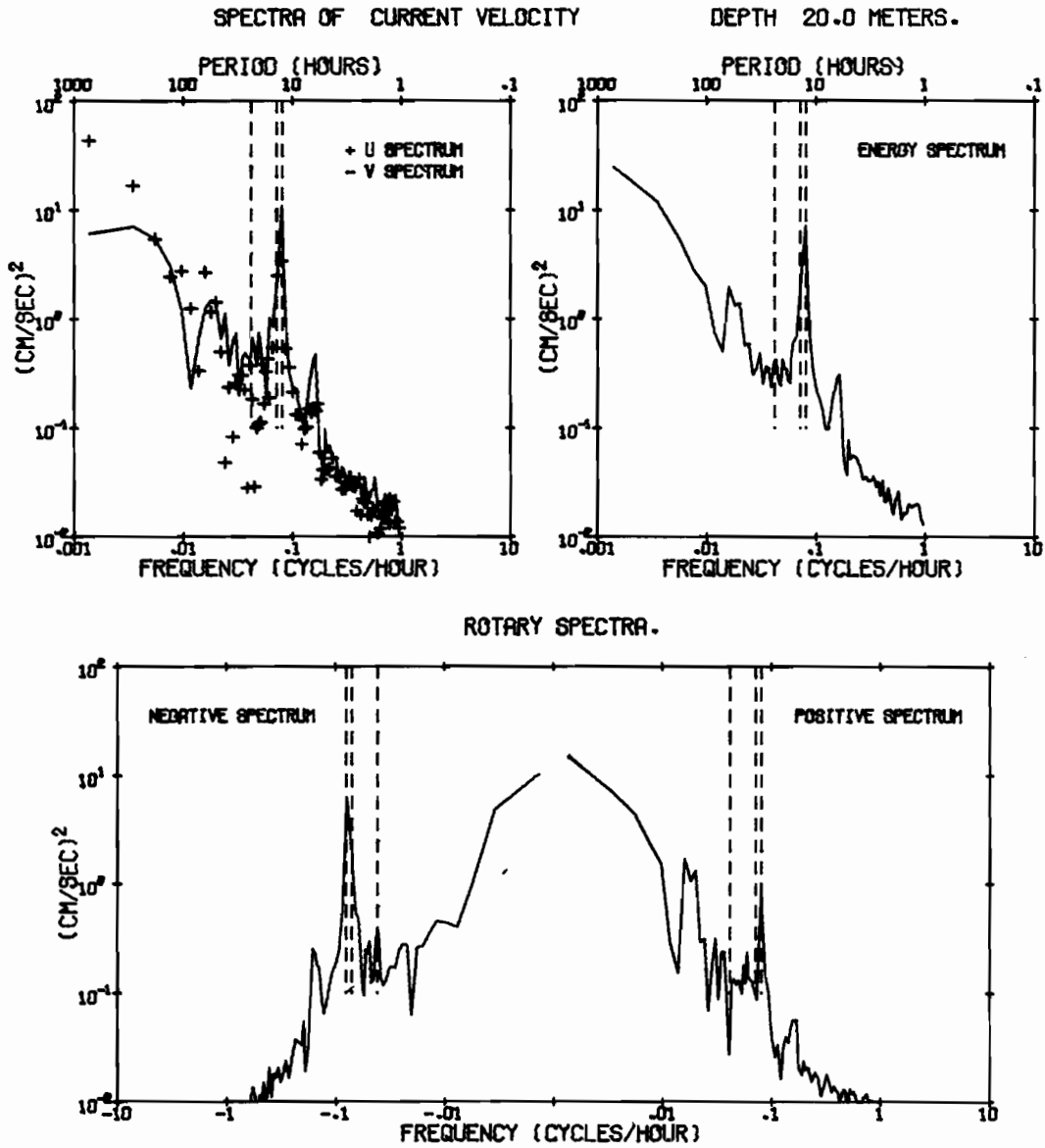


B.1. TIME SERIES ANALYSIS Current Meter 604  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 61  
OBSERVATION PERIOD 60.0 DAYS FROM 1000 GMT 16 AUG 74.  
DEPTH 20.0 METERS.



B.1. TIME SERIES ANALYSIS Current Meter 604  
Part 1 of 2 (Continued)

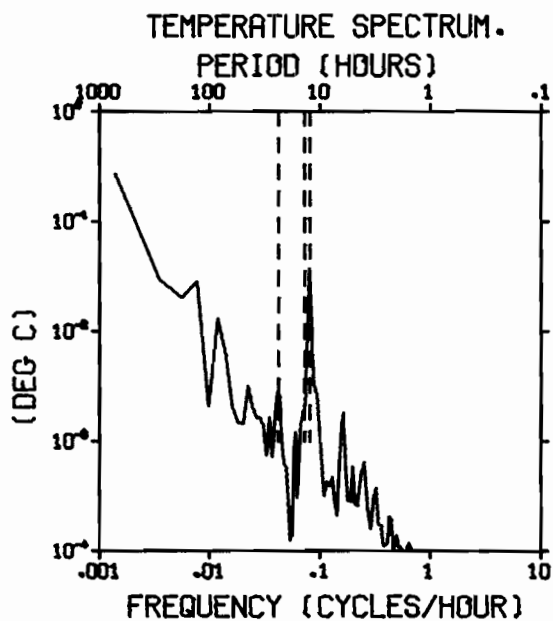
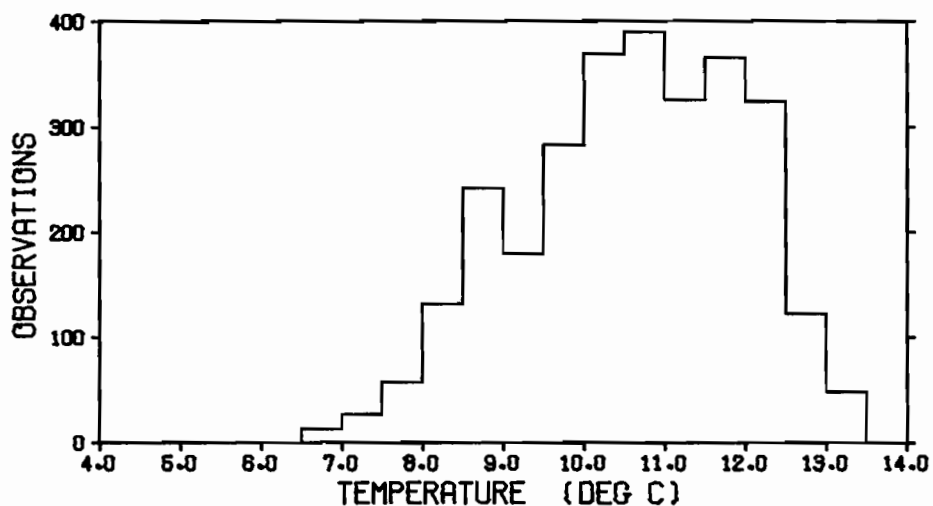




B.1. TIME SERIES ANALYSIS Current Meter 604  
 Part 1 of 2 (Continued)

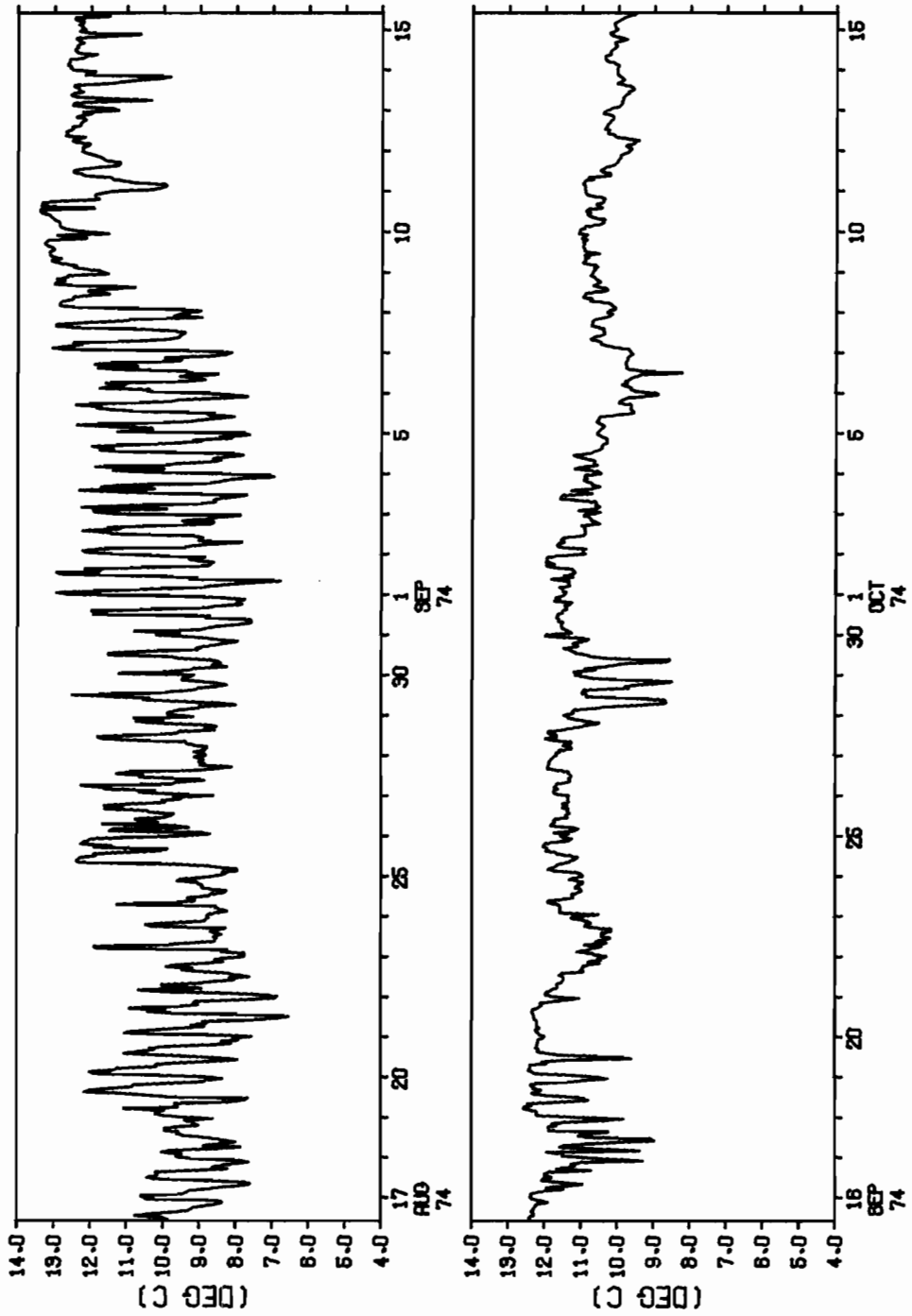
TEMPERATURE STATISTICS      LAT. 59 34.2N    LONG. 145 47.7W  
 DEPTH 20.0 METERS            NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 1000 GMT 16 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
10.59	1.90	1.38	-.32	2.40	13.48	6.50



B.1. TIME SERIES ANALYSIS Current Meter 604 Part 1 of 2 (Continued)

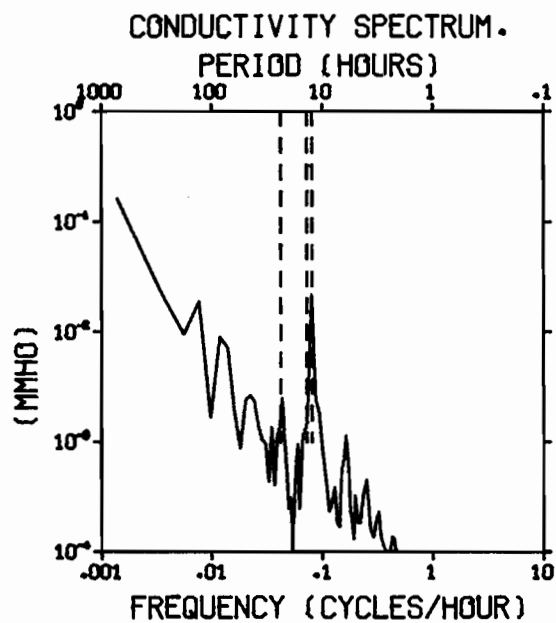
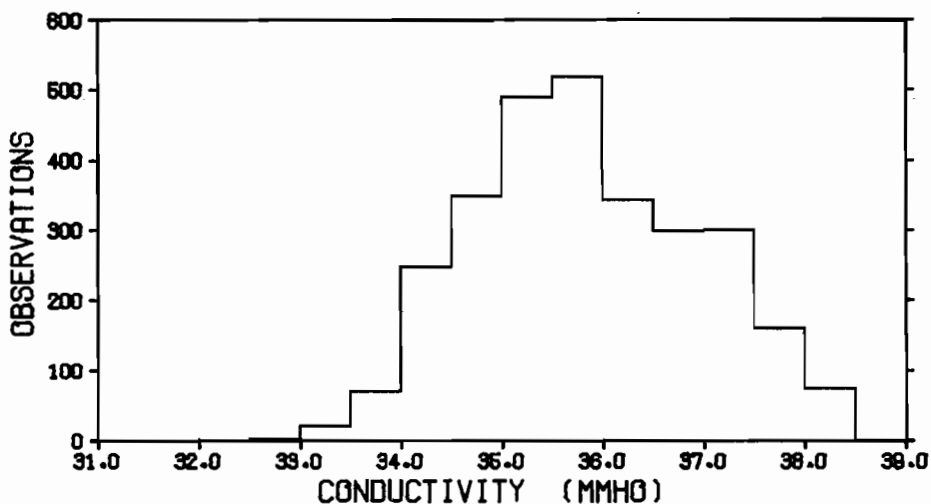
HOURLY AVERAGES OF TEMPERATURE DEPTH 20.0 METERS.



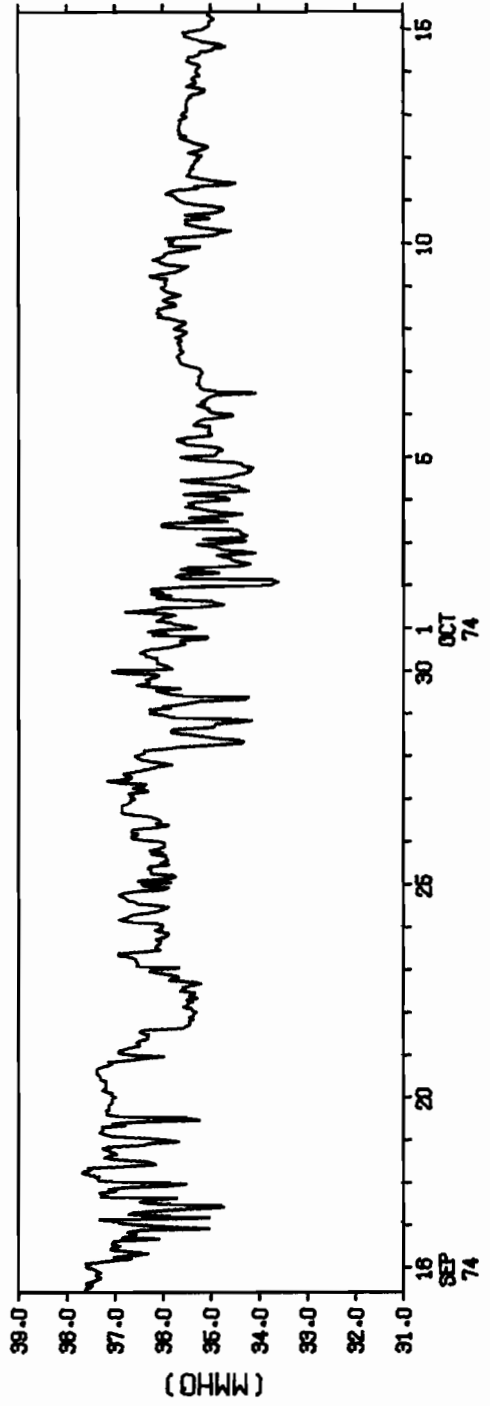
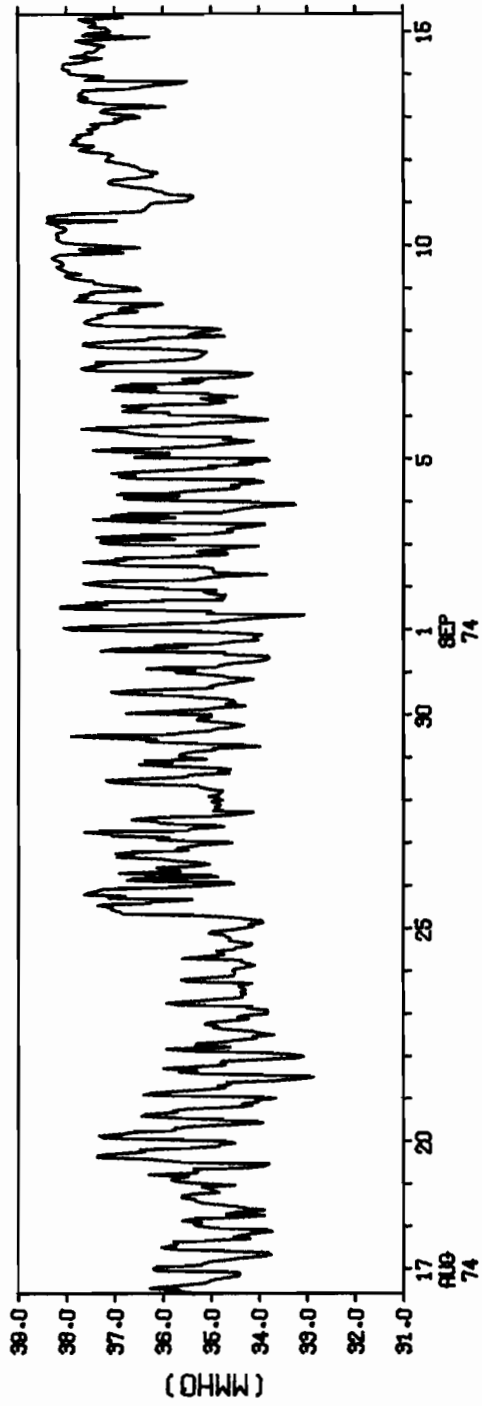
B.1. TIME SERIES ANALYSIS Current Meter 604  
Part 1 of 2 (Continued)

CONDUCTIVITY STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 1000 GMT 16 AUG 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
35.83	1.23	1.11	.15	2.34	38.41	32.87



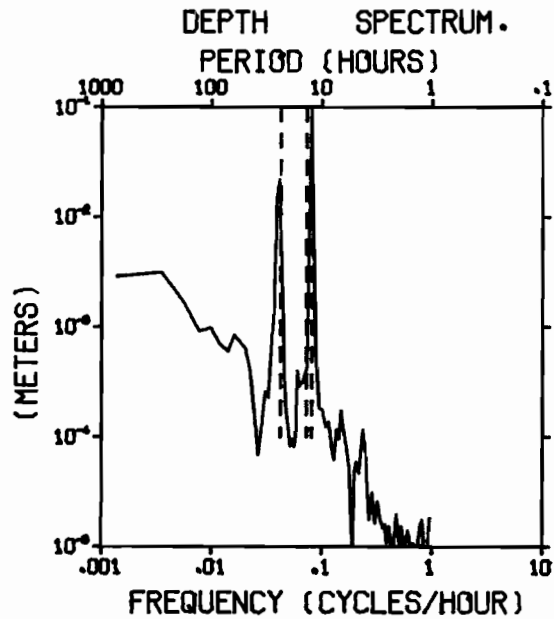
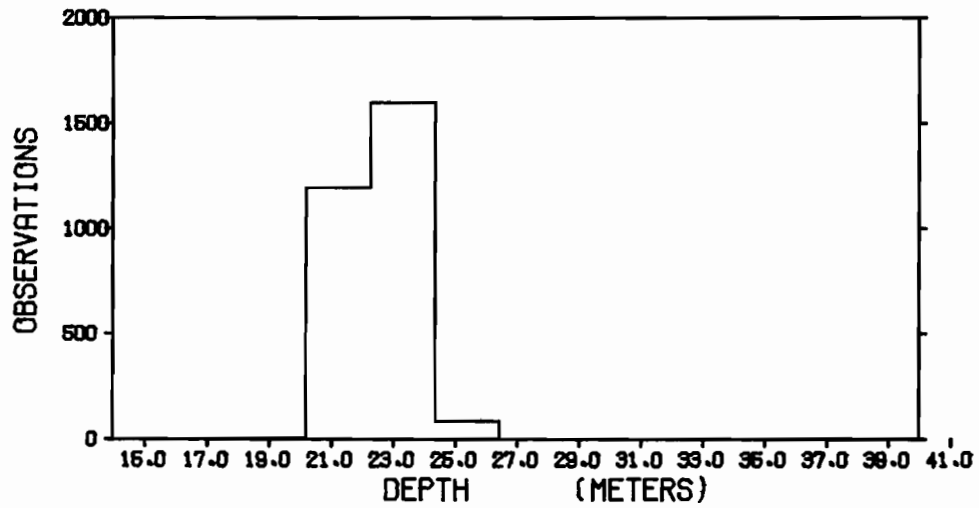
HOURLY AVERAGES OF CONDUCTIVITY DEPTH 20.0 METERS.



B.1. TIME SERIES ANALYSIS Current Meter 604  
Part 1 of 2 (Continued)

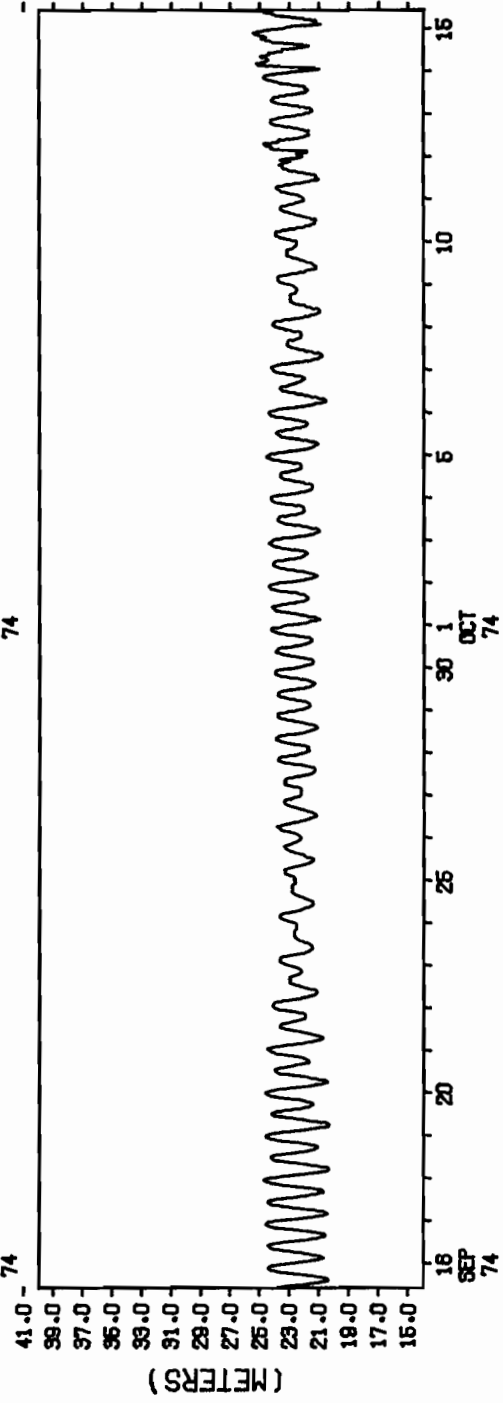
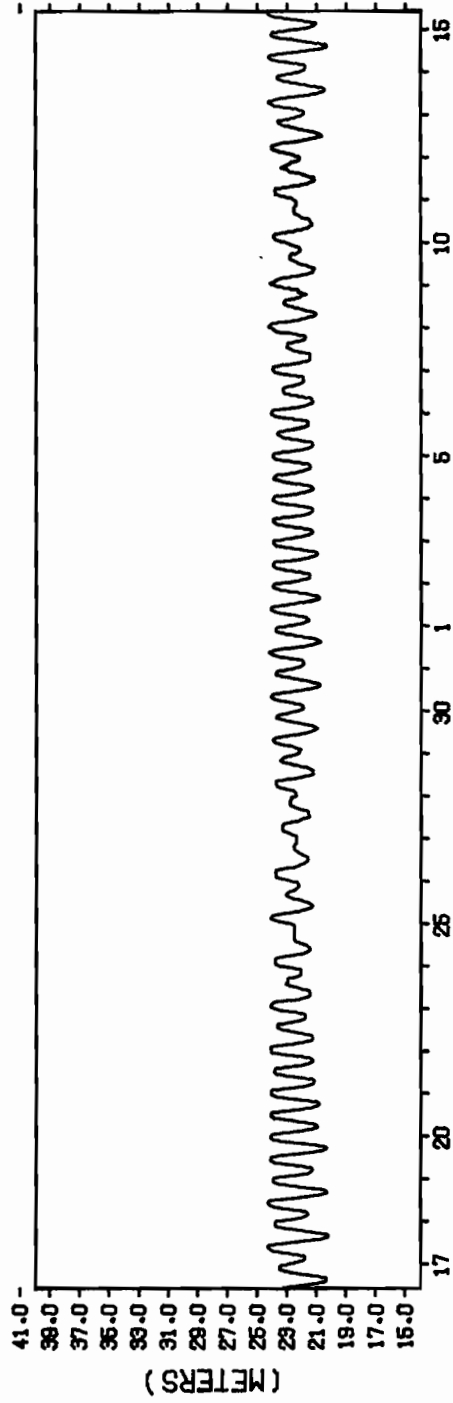
DEPTH STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
 DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 1000 GMT 16 AUG 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
23.36	1.06	1.03	-.02	2.08	26.30	20.98



B.1. TIME SERIES ANALYSIS Current Meter 604 Part 1 of 2 (Continued)

HOURLY AVERAGES OF DEPTH 20.0 METERS.



B.1. TIME SERIES ANALYSIS Current Meter 604 Nominal Depth: 20m  
 Part 2 of 2; 16 October - 21 November 1974

Mooring Designation NEG0A 61

Location: 59° 34.2'N 145° 47.7'W

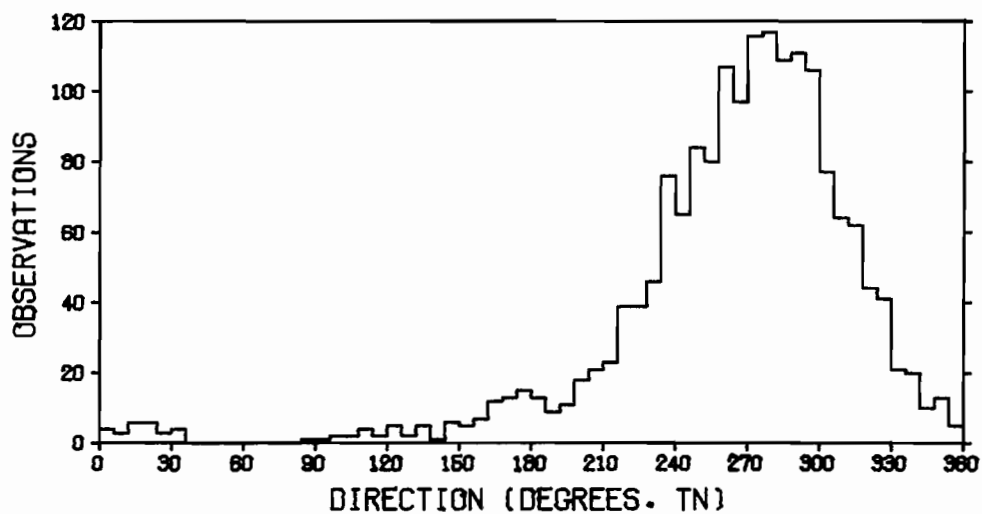
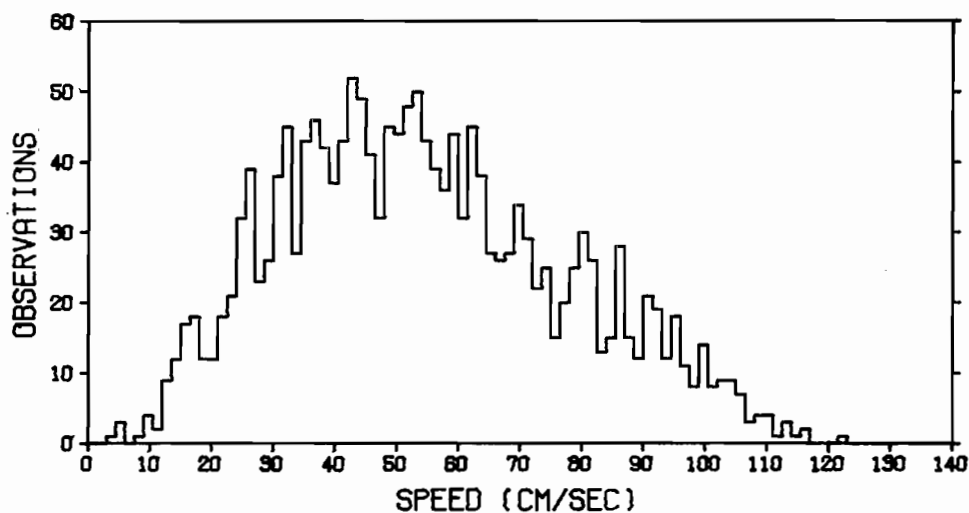
Sensors: Speed, Direction, Temperature, Conductivity, Pressure

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	54.58	524.19	22.90	.351	2.47	122.18	3.96
U	-43.28	718.29	26.80	.159	3.06	43.84	-119.42
V	4.00	895.21	29.92	-.204	3.01	99.82	-91.32

S = SPEED

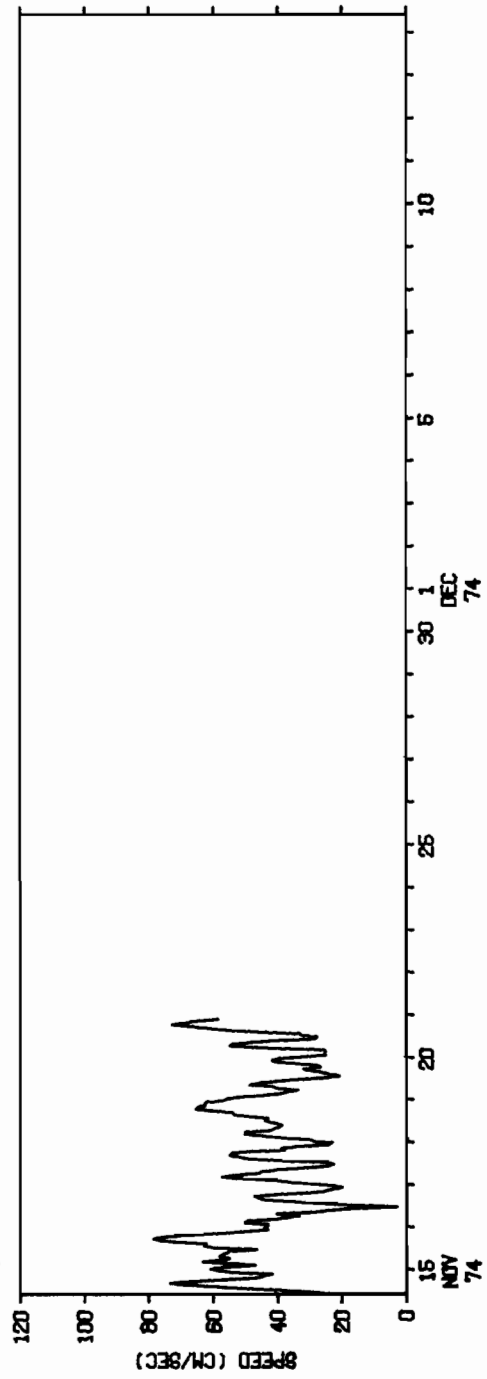
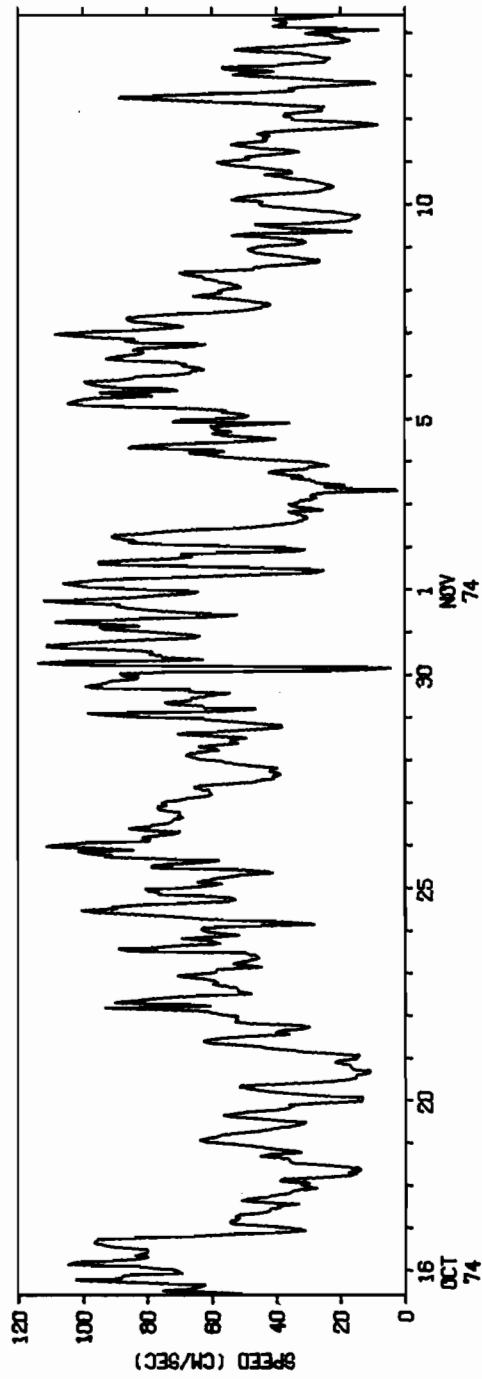
U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U

V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

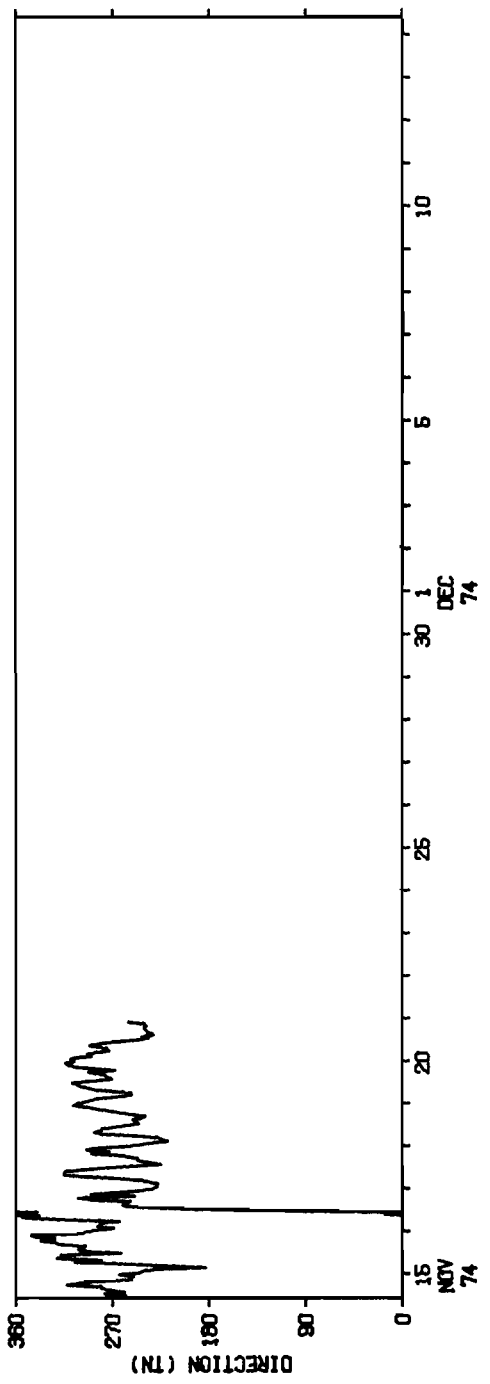
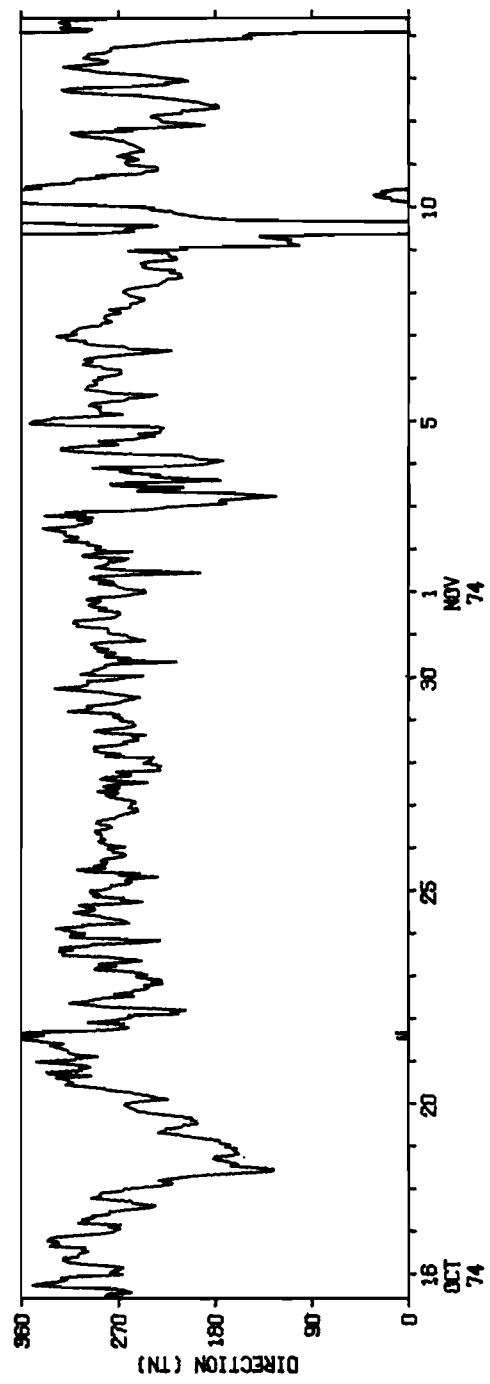
HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 20.0 METERS.





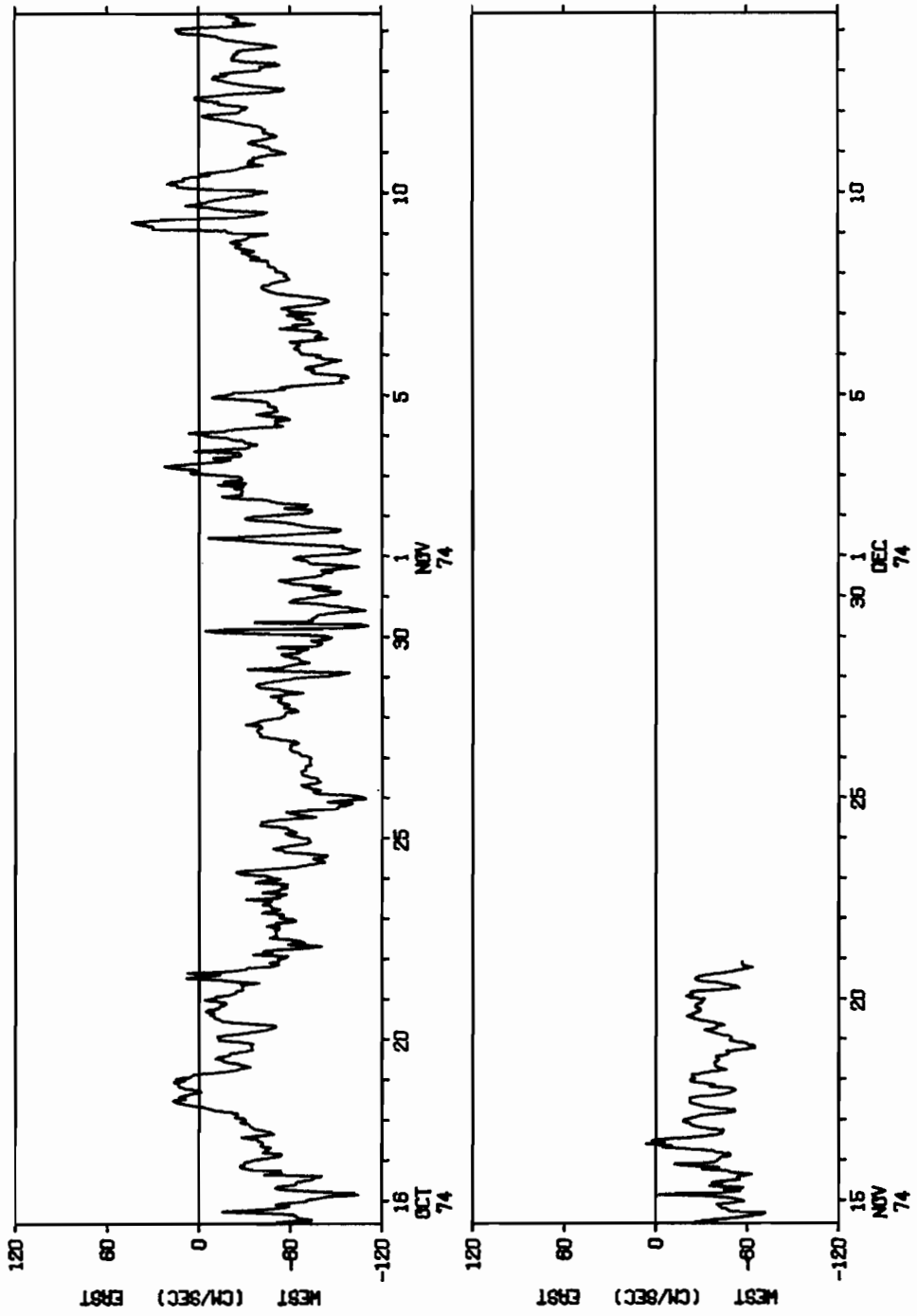
B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 20.0 METERS.



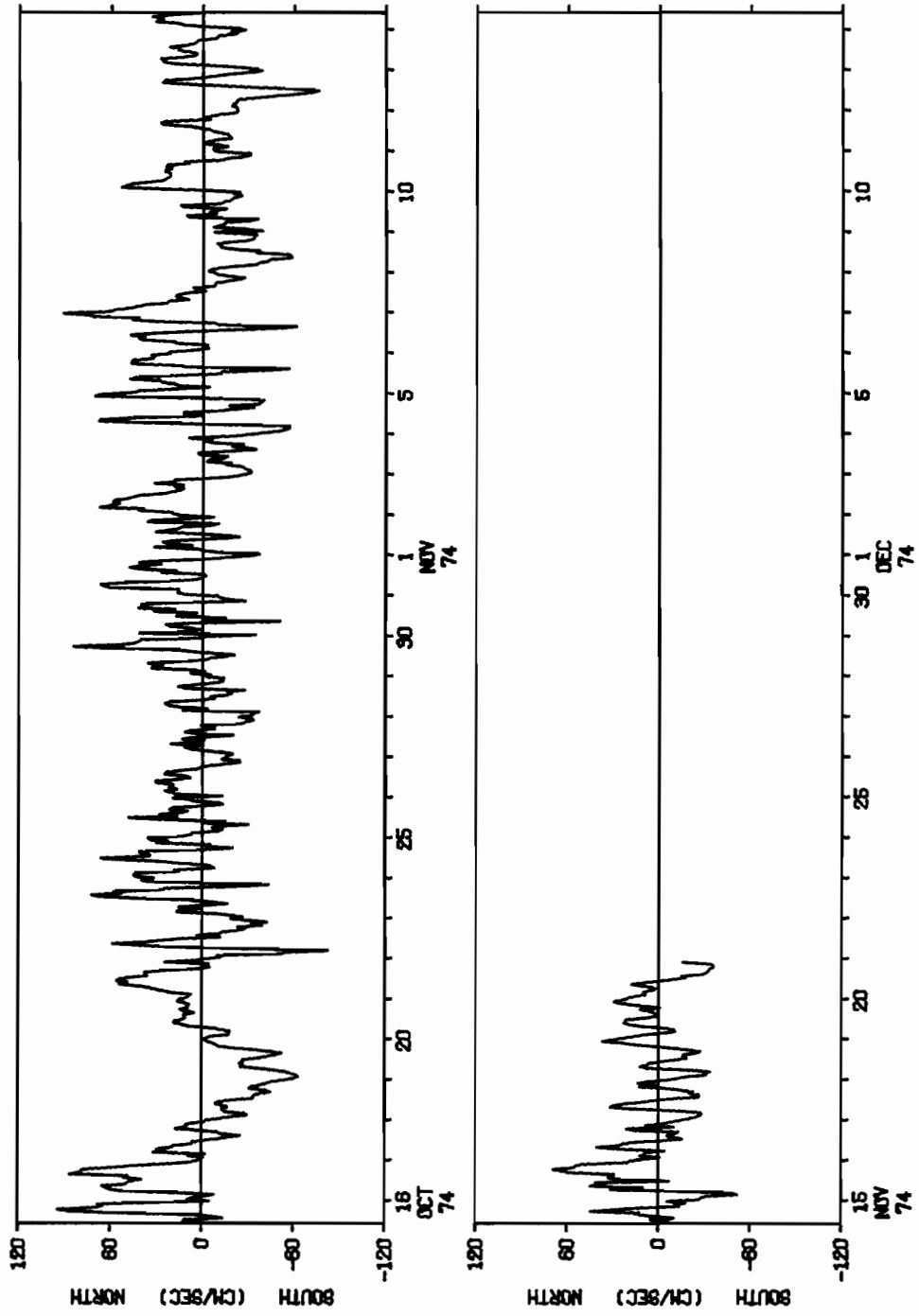
B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.



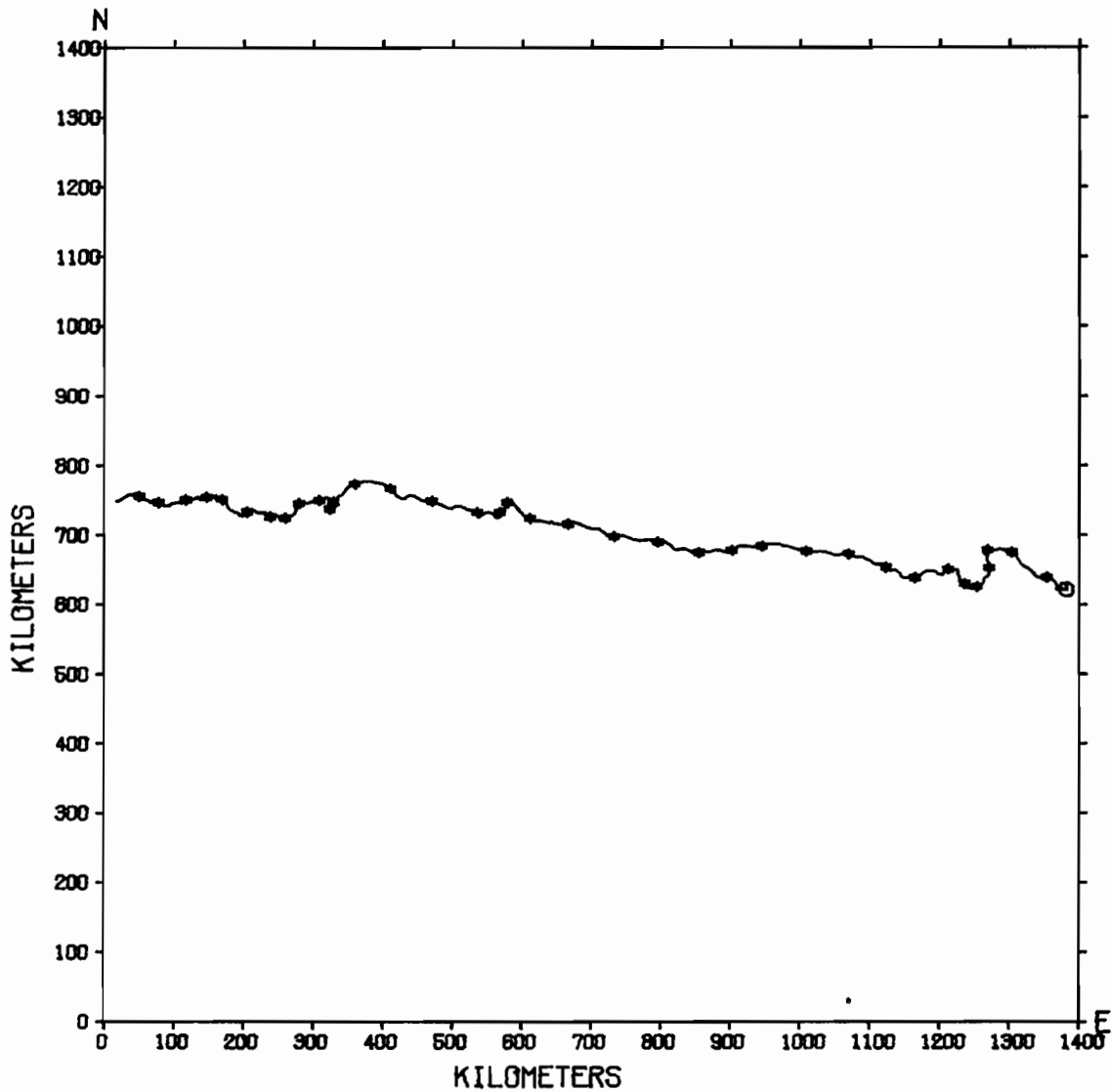
B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 20.0 METERS.

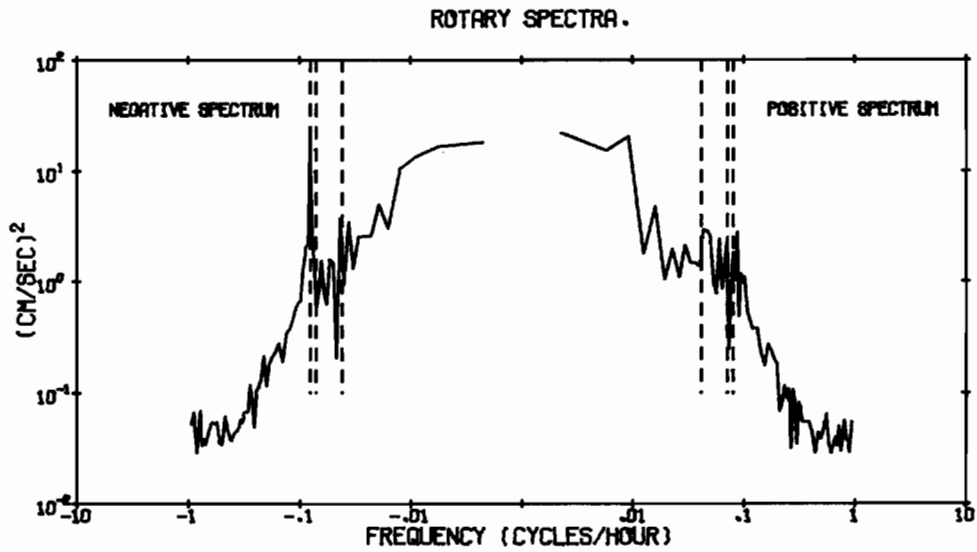
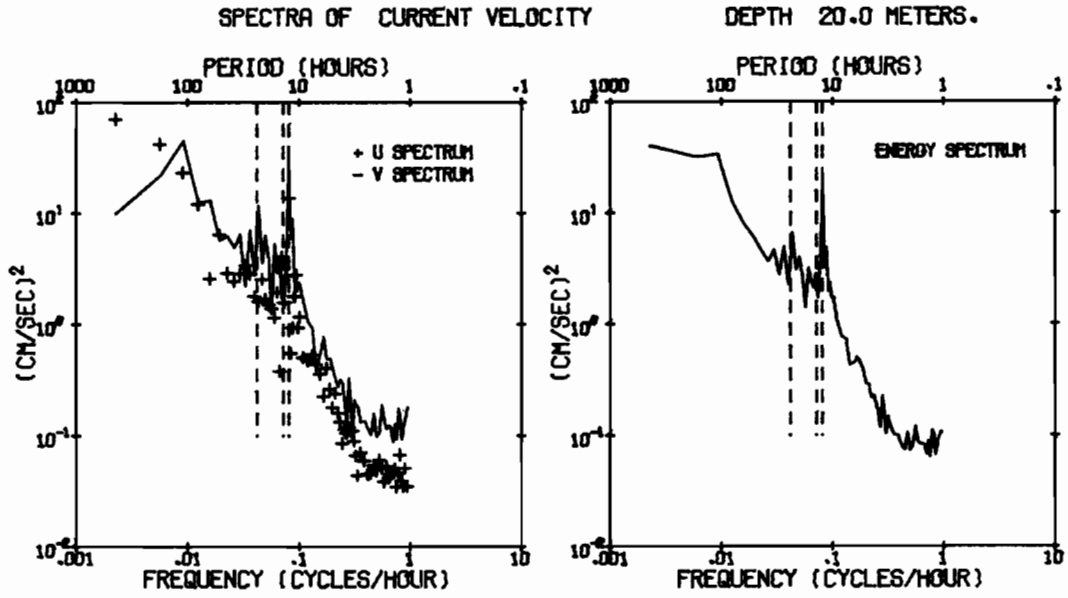


B.1. TIME SERIES ANALYSIS Current Meter 604  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGGA - 61  
OBSERVATION PERIOD 36.5 DAYS FROM 1000 GMT 15 OCT 74.  
DEPTH 20.0 METERS.



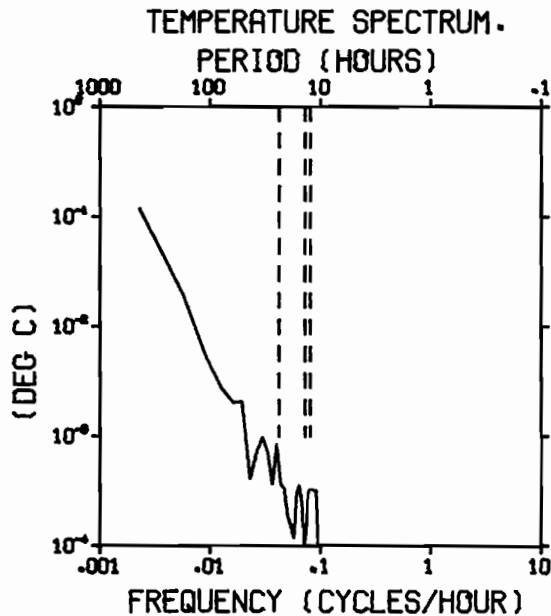
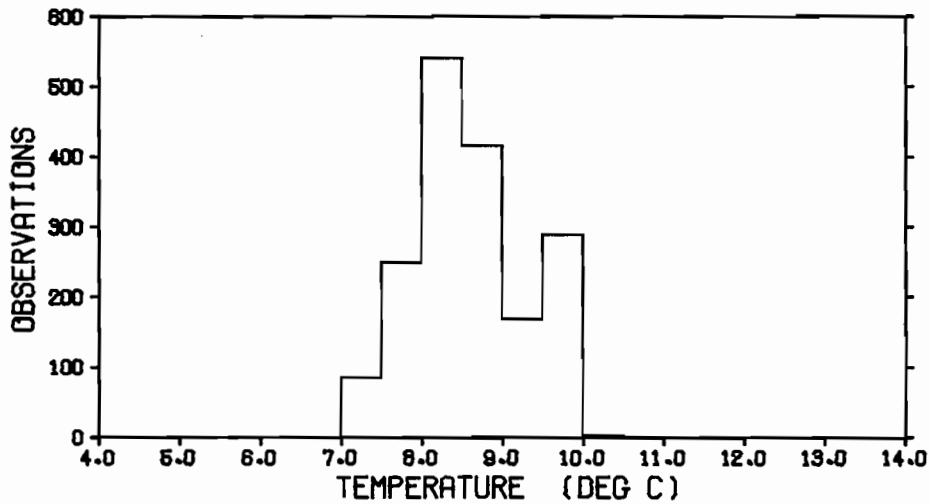
B.1. TIME SERIES ANALYSIS Current Meter 604  
 Part 2 of 2 (Continued)



B.1. TIME SERIES ANALYSIS Current Meter 604  
 Part 2 of 2 (Continued)

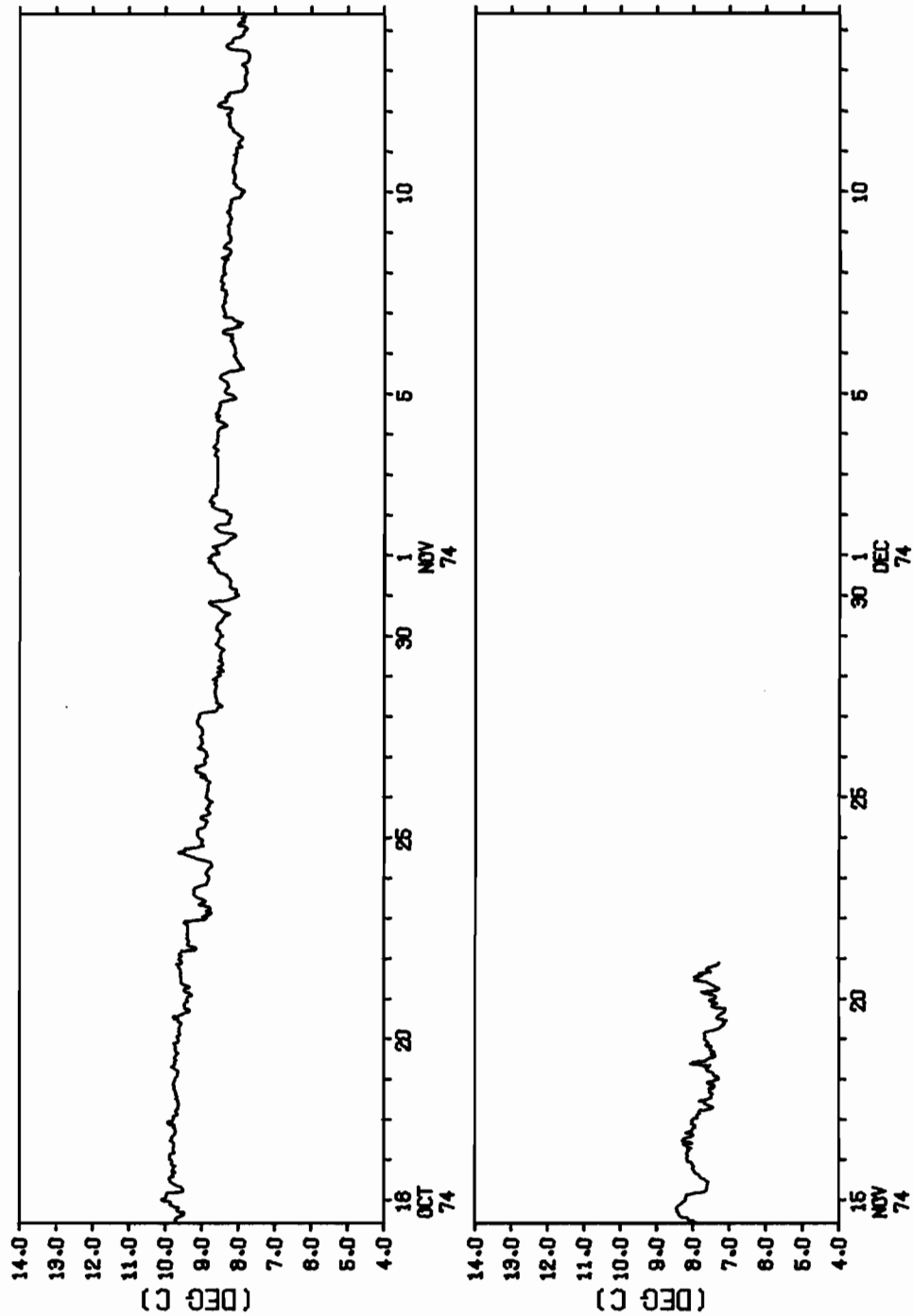
TEMPERATURE STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
 DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 1753  
 OBSERVATION PERIOD 36.5 DAYS FROM 1000 GMT 15 OCT 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
8.59	.48	.69	.24	2.26	10.11	7.05



B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

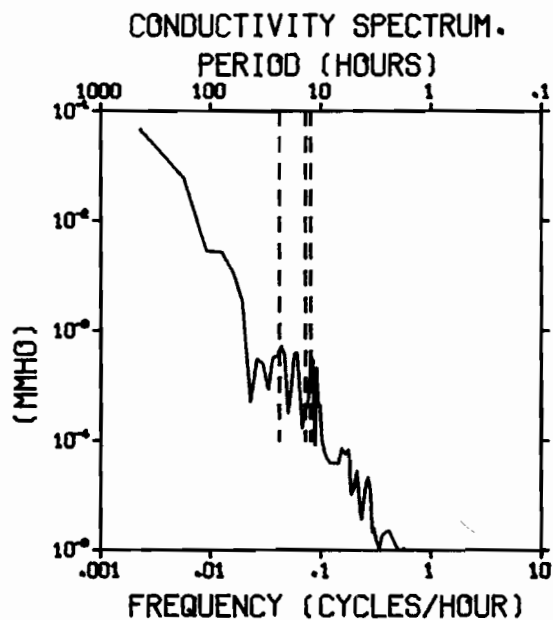
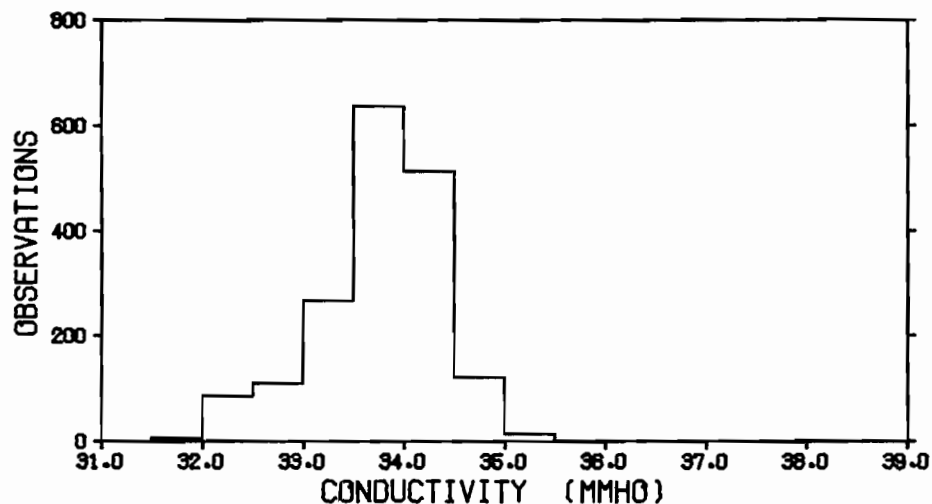
HOURLY AVERAGES OF TEMPERATURE DEPTH 20.0 METERS.



B.1. TIME SERIES ANALYSIS Current Meter 604  
Part 2 of 2 (Continued)

CONDUCTIVITY STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 1753  
OBSERVATION PERIOD 36.5 DAYS FROM 1000 GMT 15 OCT 74

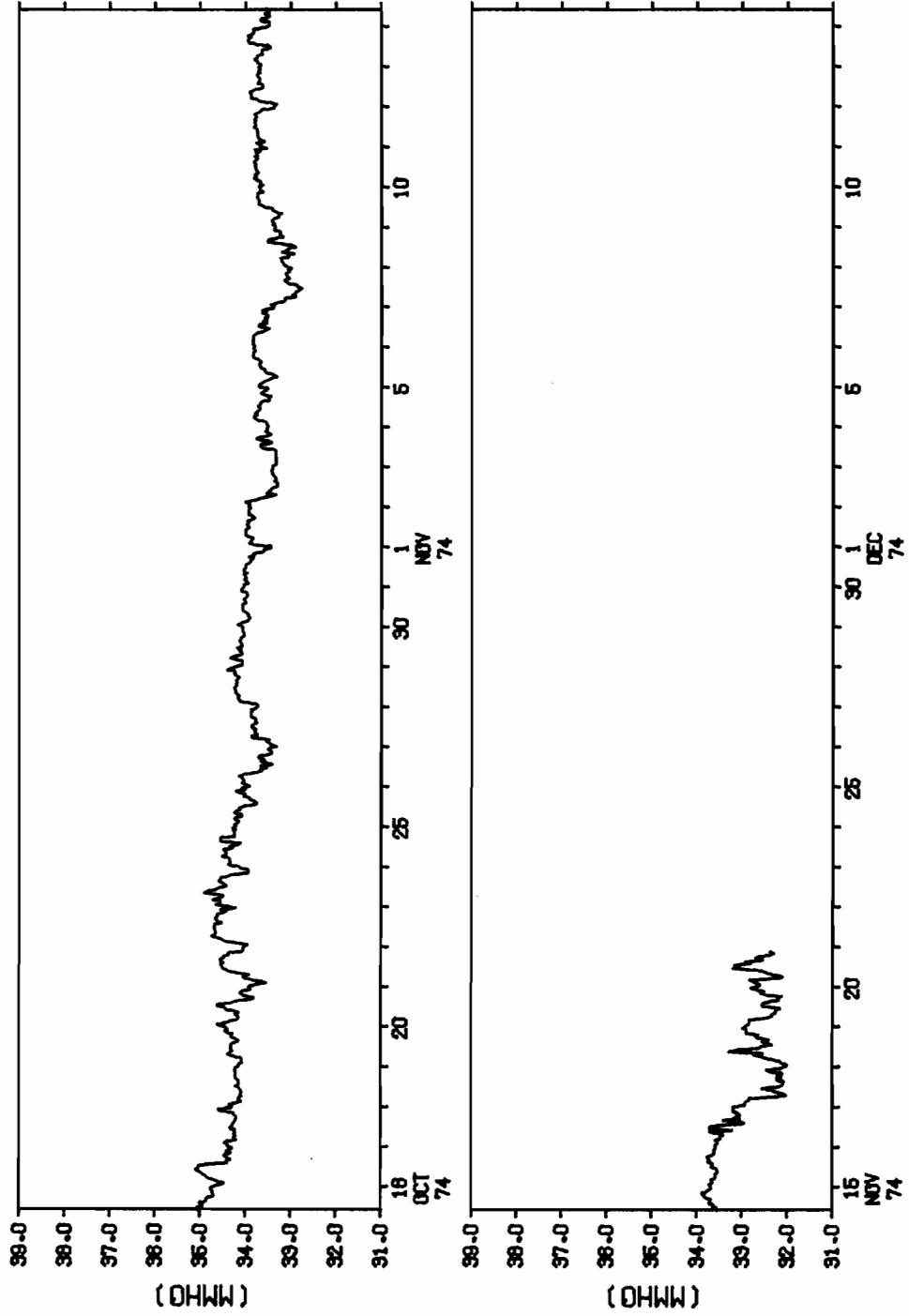
MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
33.75	.36	.60	-.70	3.55	35.10	31.86





B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

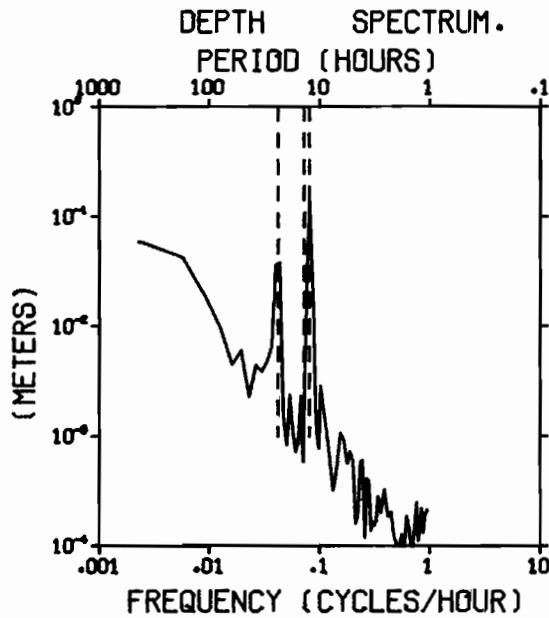
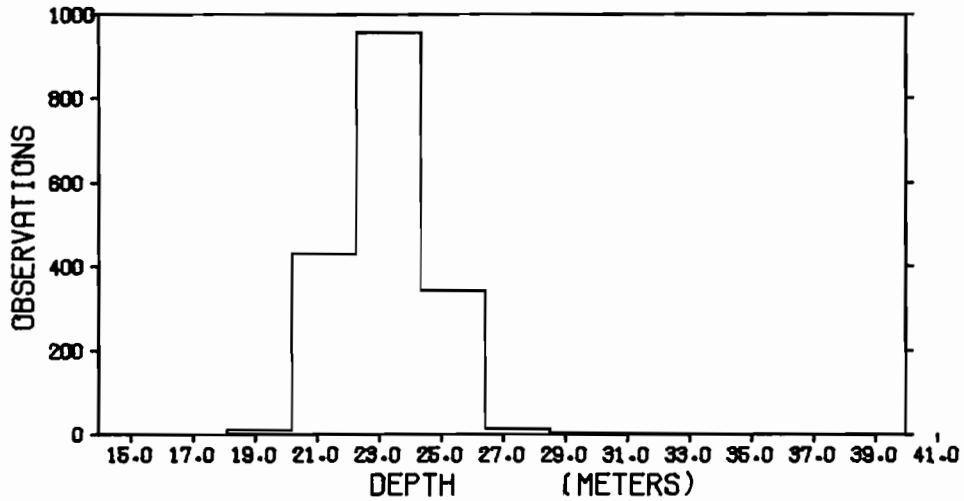
HOURLY AVERAGES OF CONDUCTIVITY DEPTH 20.0 METERS.



B.1. TIME SERIES ANALYSIS Current Meter 604  
 Part 2 of 2 (Continued)

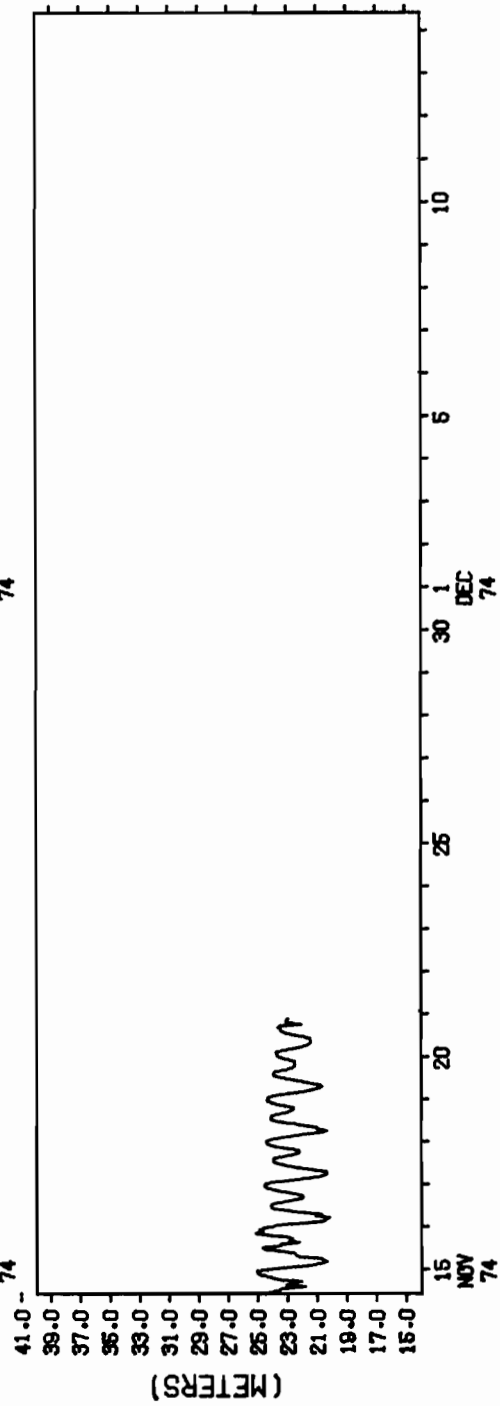
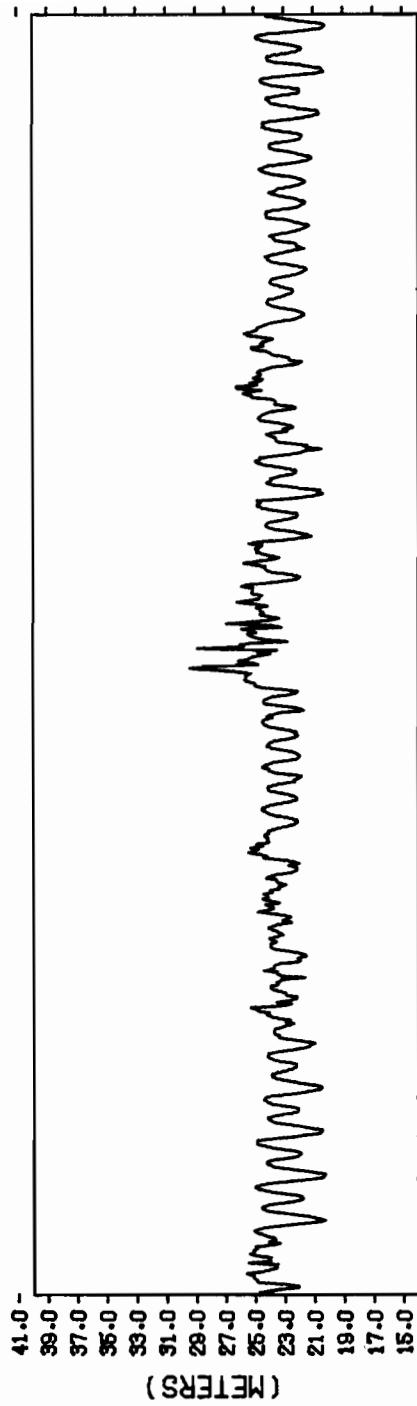
DEPTH STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
 DEPTH 20.0 METERS NUMBER OF OBSERVATIONS = 1753  
 OBSERVATION PERIOD 36.5 DAYS FROM 1000 GMT 15 OCT 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
24.03	1.67	1.29	.00	3.55	30.55	20.98



B.1. TIME SERIES ANALYSIS Current Meter 604 Part 2 of 2 (Continued)

HOURLY AVERAGES OF DEPTH 20.0 METERS.

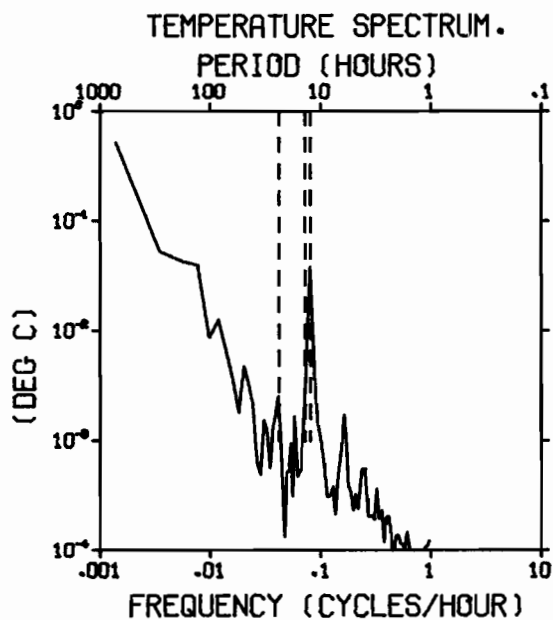
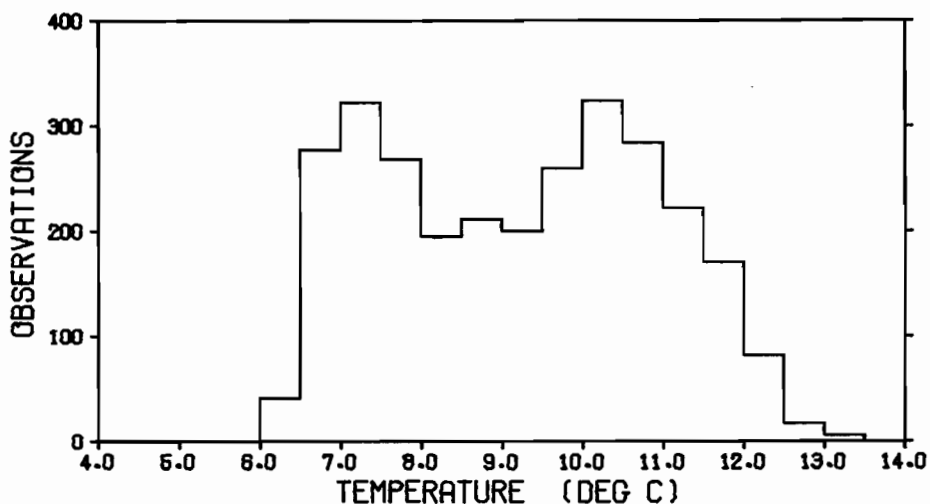


B.2. TIME SERIES ANALYSIS Current Meter 601 Nominal Depth: 30m  
 Part 1 of 2; 16 August - 15 October 1974

Mooring Designation NEGOA 61  
 Location: 59° 34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

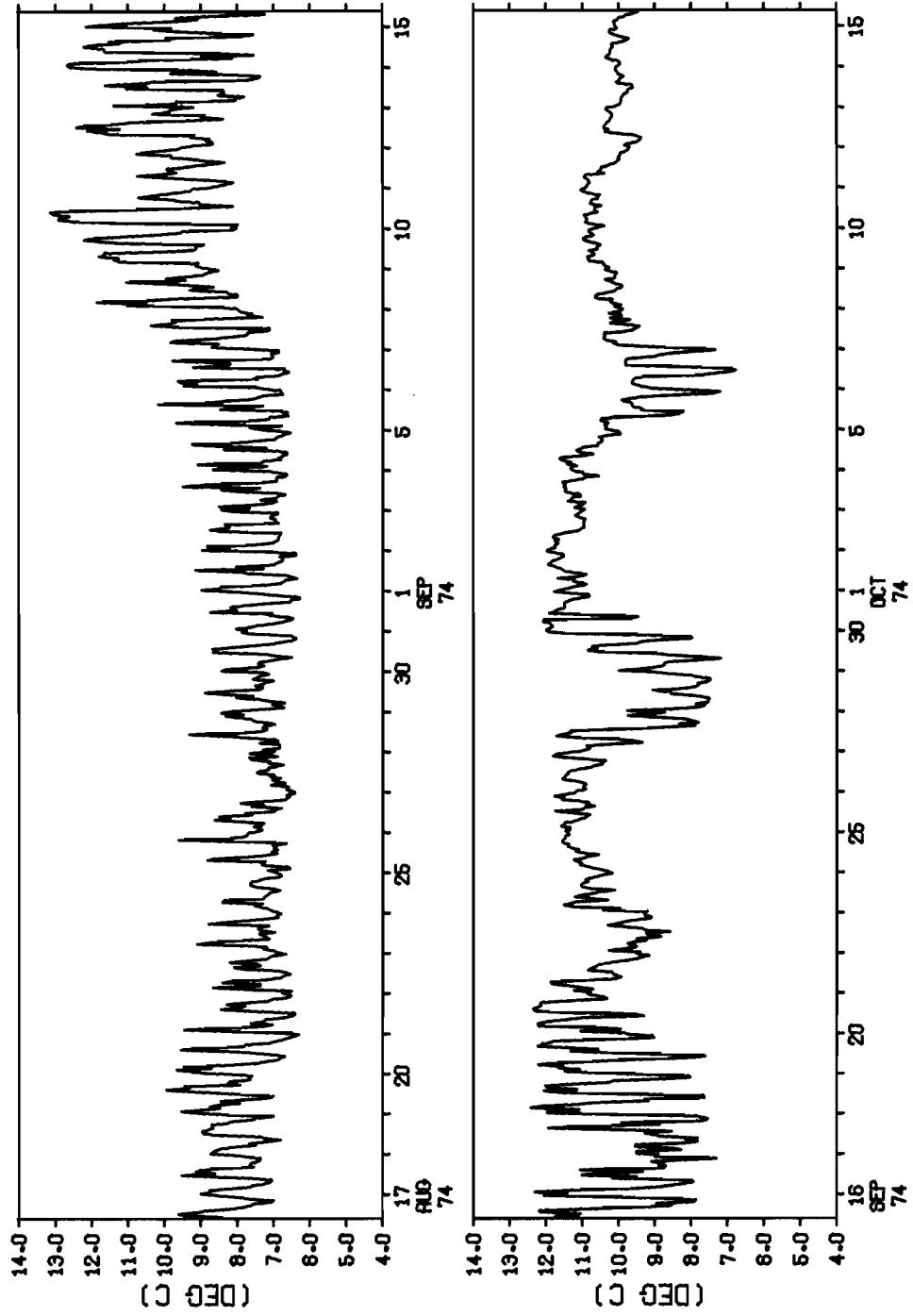
TEMPERATURE STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
 DEPTH 30.0 METERS NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0932 GMT 16 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
9.22	2.87	1.69	.05	1.81	13.38	6.19



B.2. TIME SERIES ANALYSIS Current Meter 601 Part 1 of 2 (Continued)

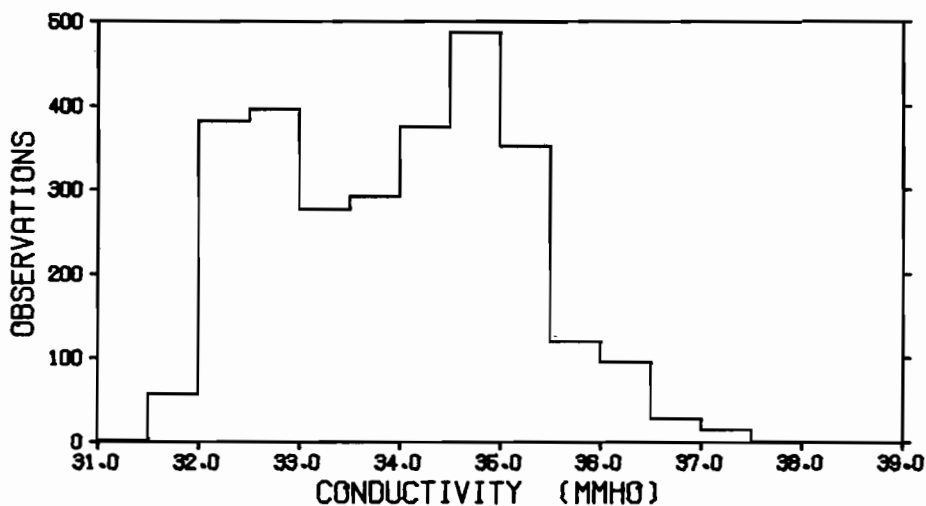
HOURLY AVERAGES OF TEMPERATURE DEPTH 30.0 METERS.



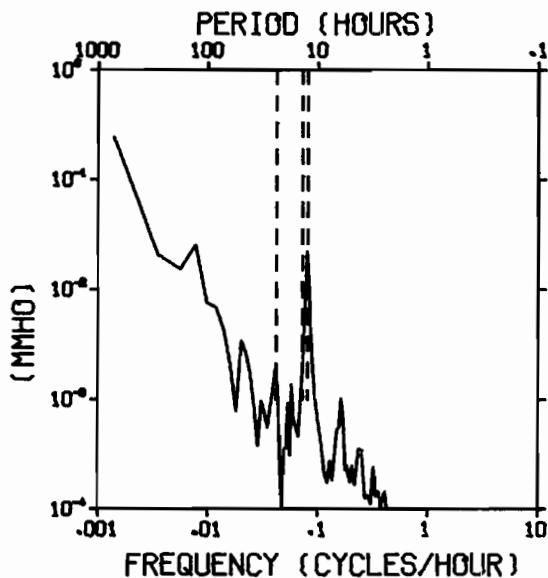
B.2. TIME SERIES ANALYSIS Current Meter 601  
 Part 1 of 2 (Continued)

CONDUCTIVITY STATISTICS      LAT. 59 34.2N    LONG. 145 47.7W  
 DEPTH 30.0 METERS            NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0932 GMT 16 AUG 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
33.96	1.49	1.22	.16	2.17	37.52	31.15

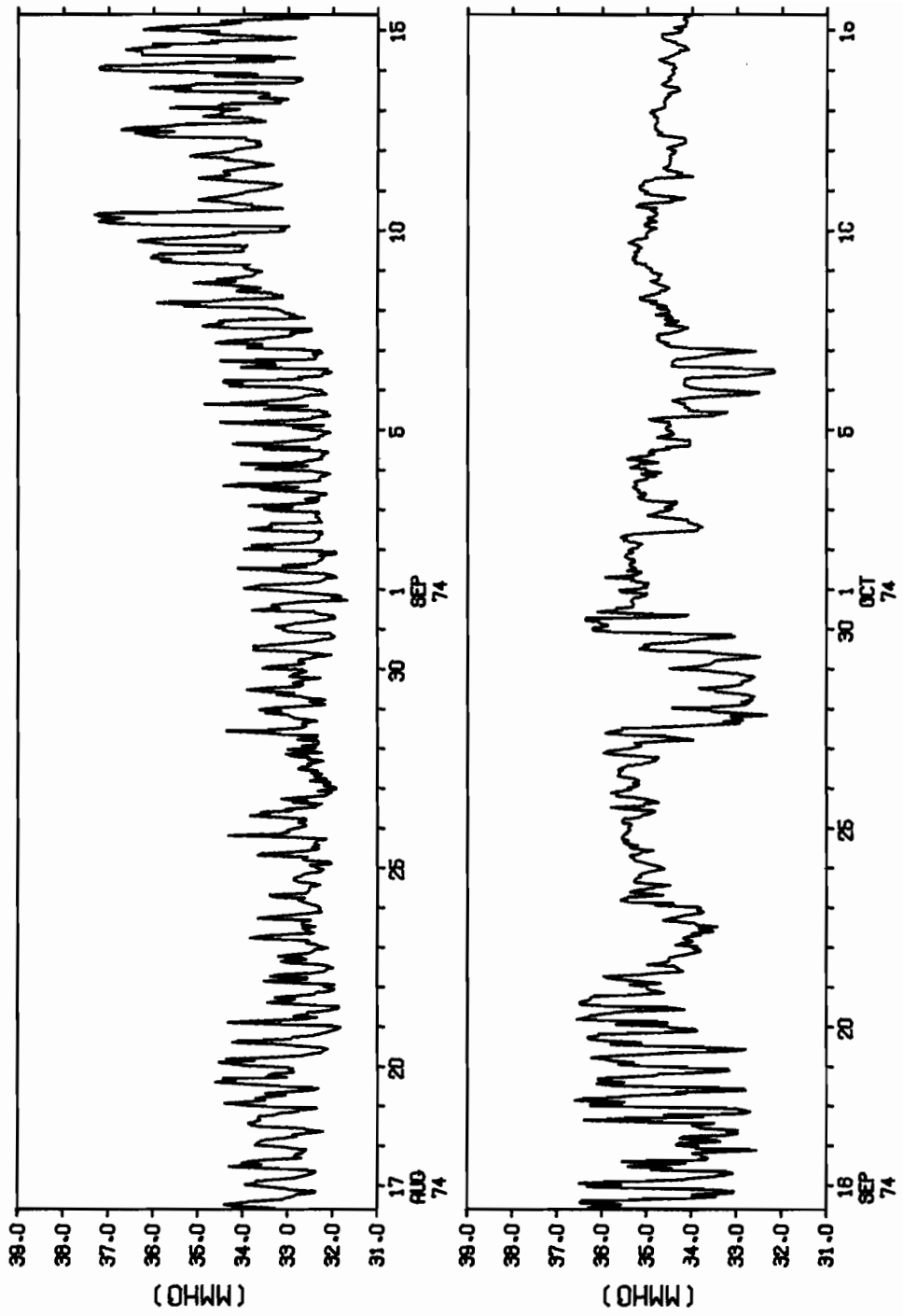


CONDUCTIVITY SPECTRUM.



B.2. TIME SERIES ANALYSIS Current Meter 601 Part 1 of 2 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 30.0 METERS.

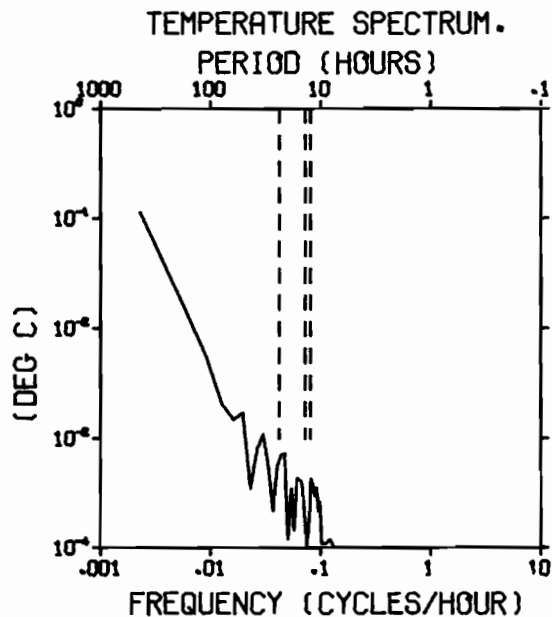
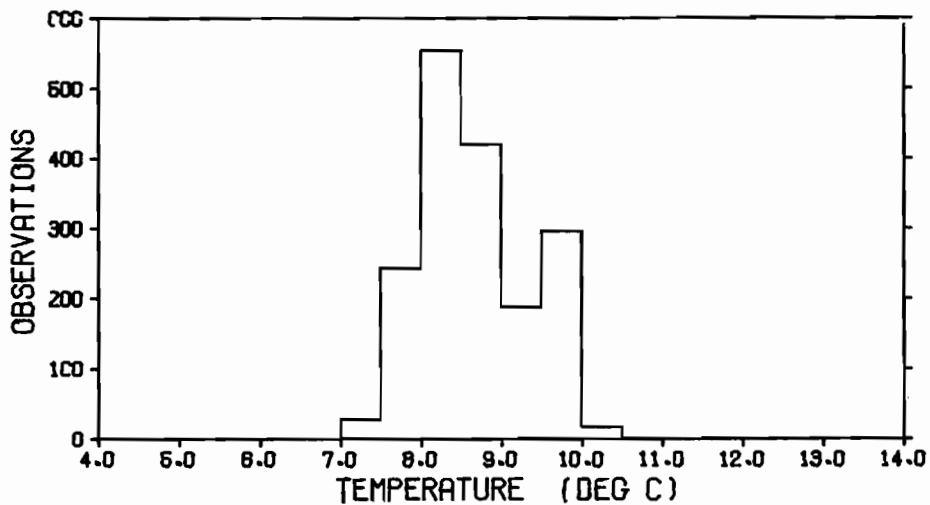


B.2. TIME SERIES ANALYSIS Current Meter 601 Nominal Depth: 30m  
 Part 2 of 2; 16 October - 21 November 1974

Mooring Designation NEGOA 61  
 Location: 59° 34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

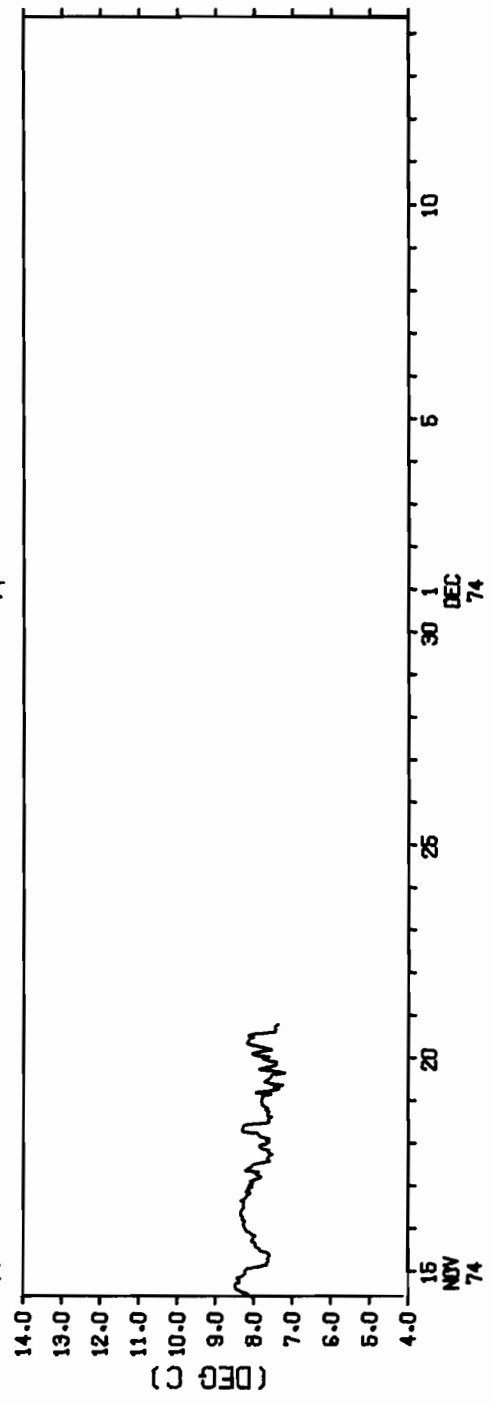
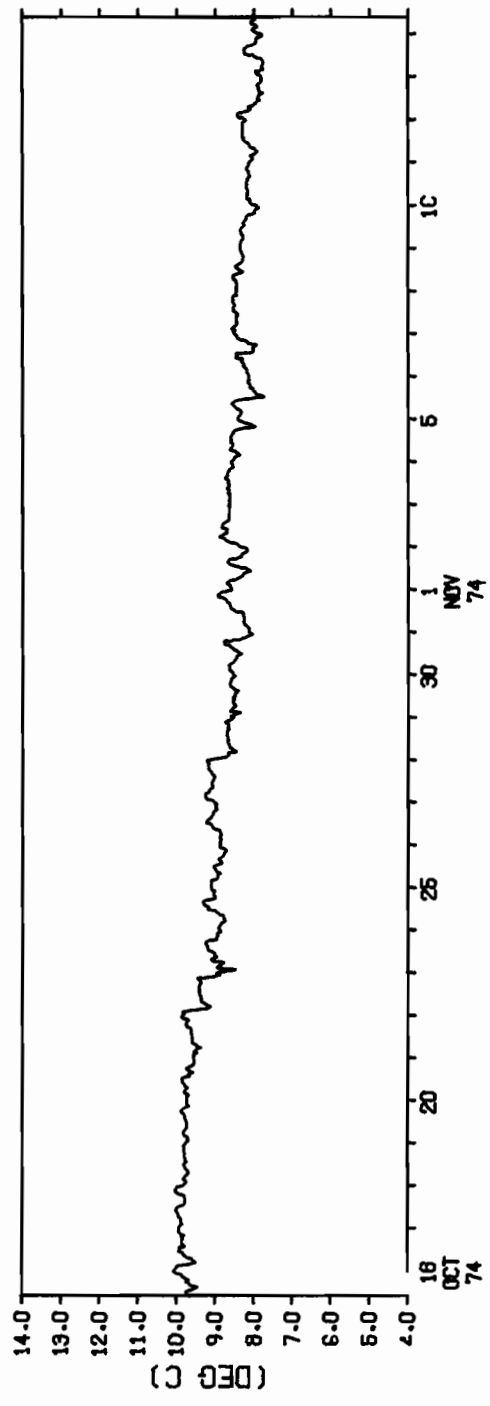
TEMPERATURE STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
 DEPTH 30.0 METERS NUMBER OF OBSERVATIONS = 1748  
 OBSERVATION PERIOD 36.4 DAYS FROM 0932 GMT 15 OCT 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
8.65	.47	.69	.11	4.42	10.12	3.18





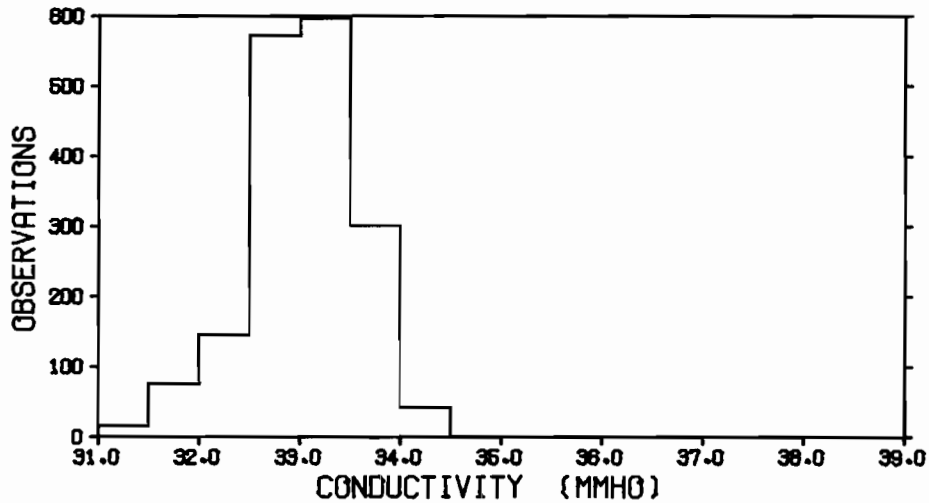
HOURLY AVERAGES OF TEMPERATURE DEPTH 30.0 METERS.



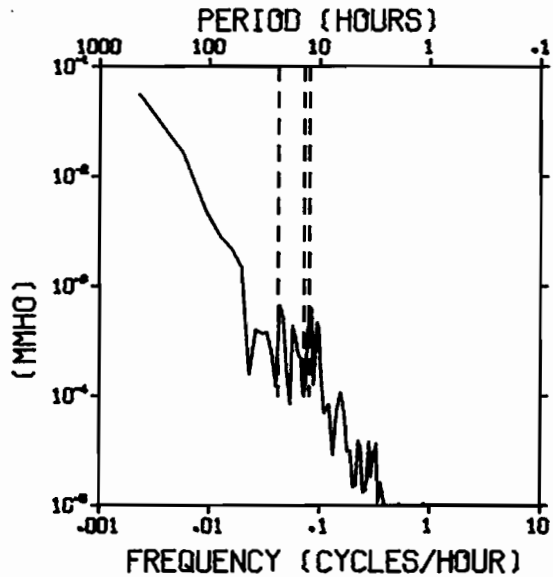
B.2. TIME SERIES ANALYSIS Current Meter 601  
 Part 2 of 2 (Continued)

CONDUCTIVITY STATISTICS      LAT. 59 34.2N    LONG. 145 47.7W  
 DEPTH 30.0 METERS            NUMBER OF OBSERVATIONS = 1748  
 OBSERVATION PERIOD 36.4 DAYS FROM 0932 GMT 15 OCT 74

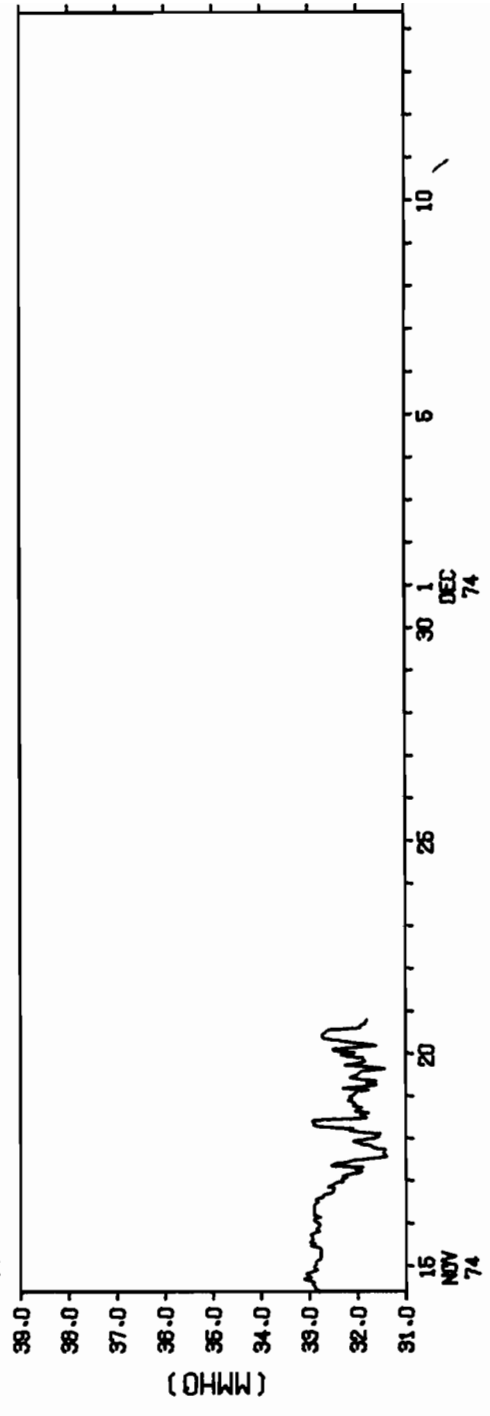
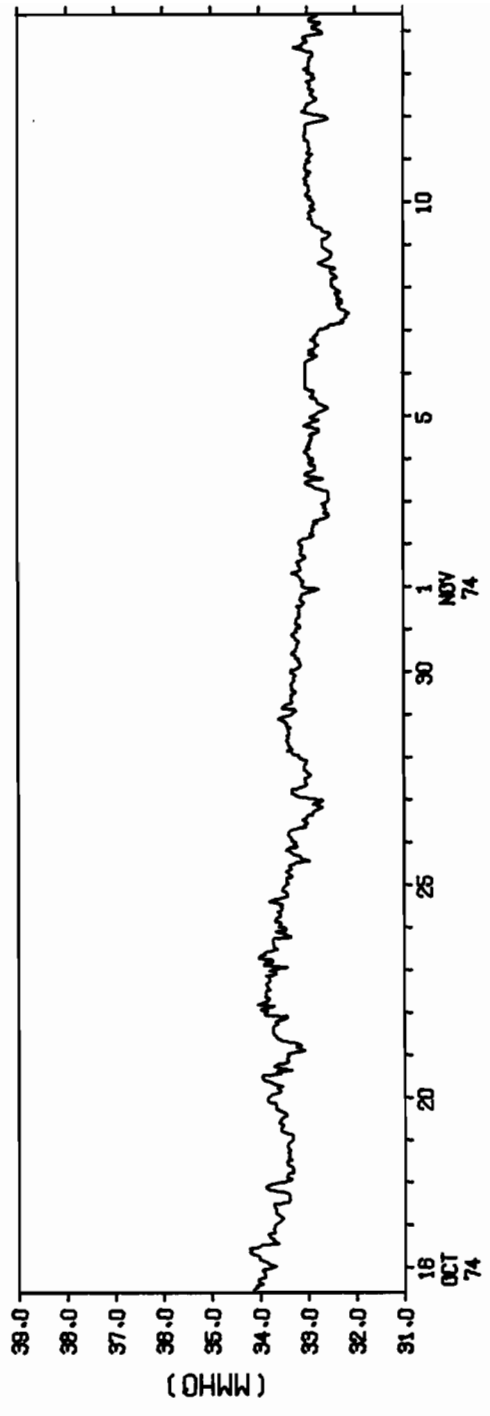
MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
33.05	.28	.53	-.51	3.40	34.23	31.36



CONDUCTIVITY SPECTRUM.



HOURLY AVERAGES OF CONDUCTIVITY DEPTH 30.0 METERS.

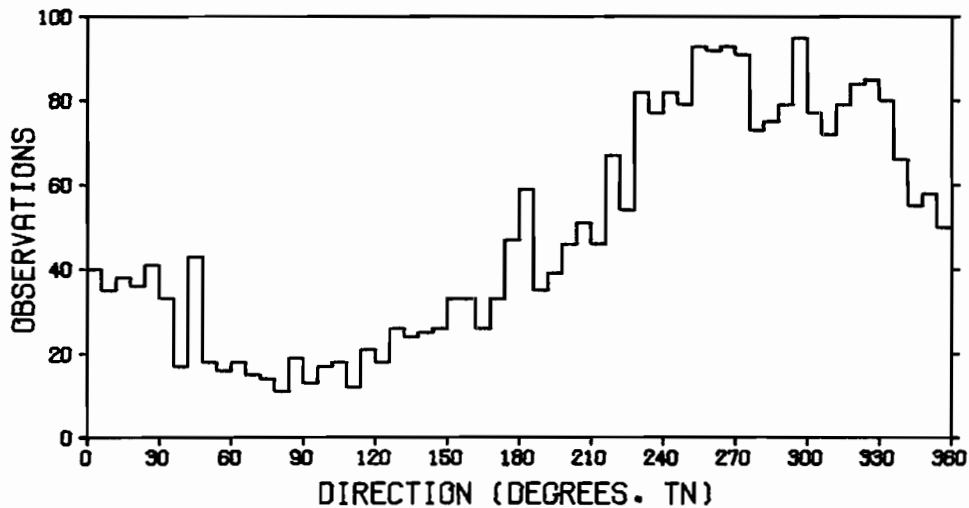
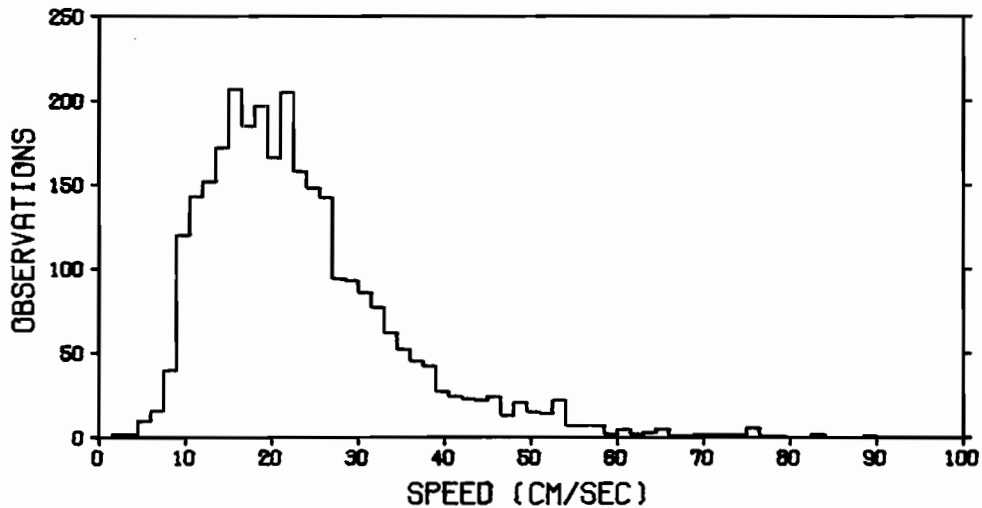


B.3. TIME SERIES ANALYSIS Current Meter 711 Nominal Depth: 50m  
 Part 1 of 2; 16 August - 15 October 1974

Mooring Designation NEG0A 61  
 Location: 59°34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

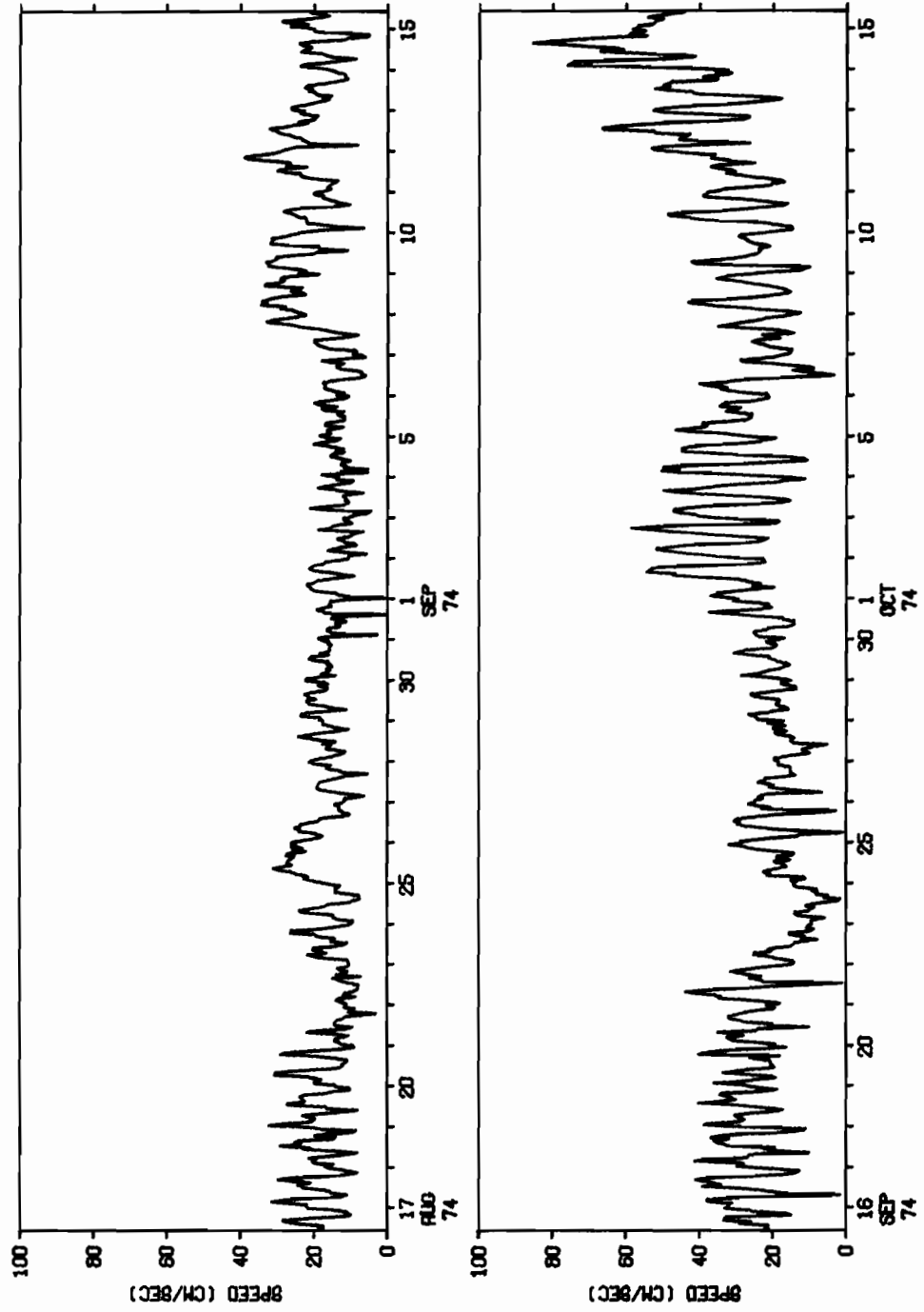
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	23.45	132.17	11.50	1.485	6.21	89.38	2.05
U	-11.45	274.45	16.57	-.410	2.93	25.86	-71.42
V	2.47	270.19	16.44	.318	2.95	80.85	-40.58

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



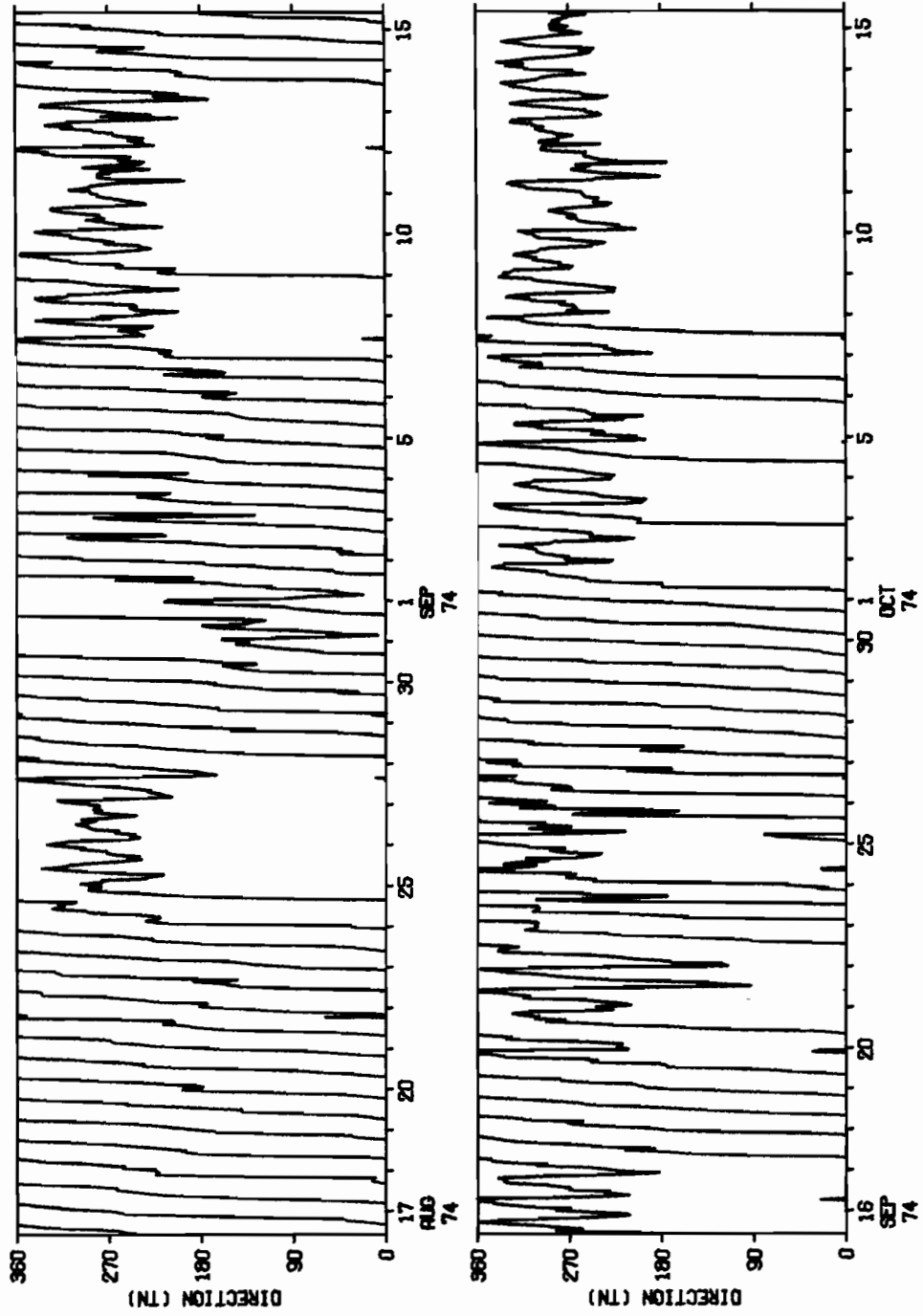
B.3. TIME SERIES ANALYSIS Current Meter 711 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 50.0 METERS.



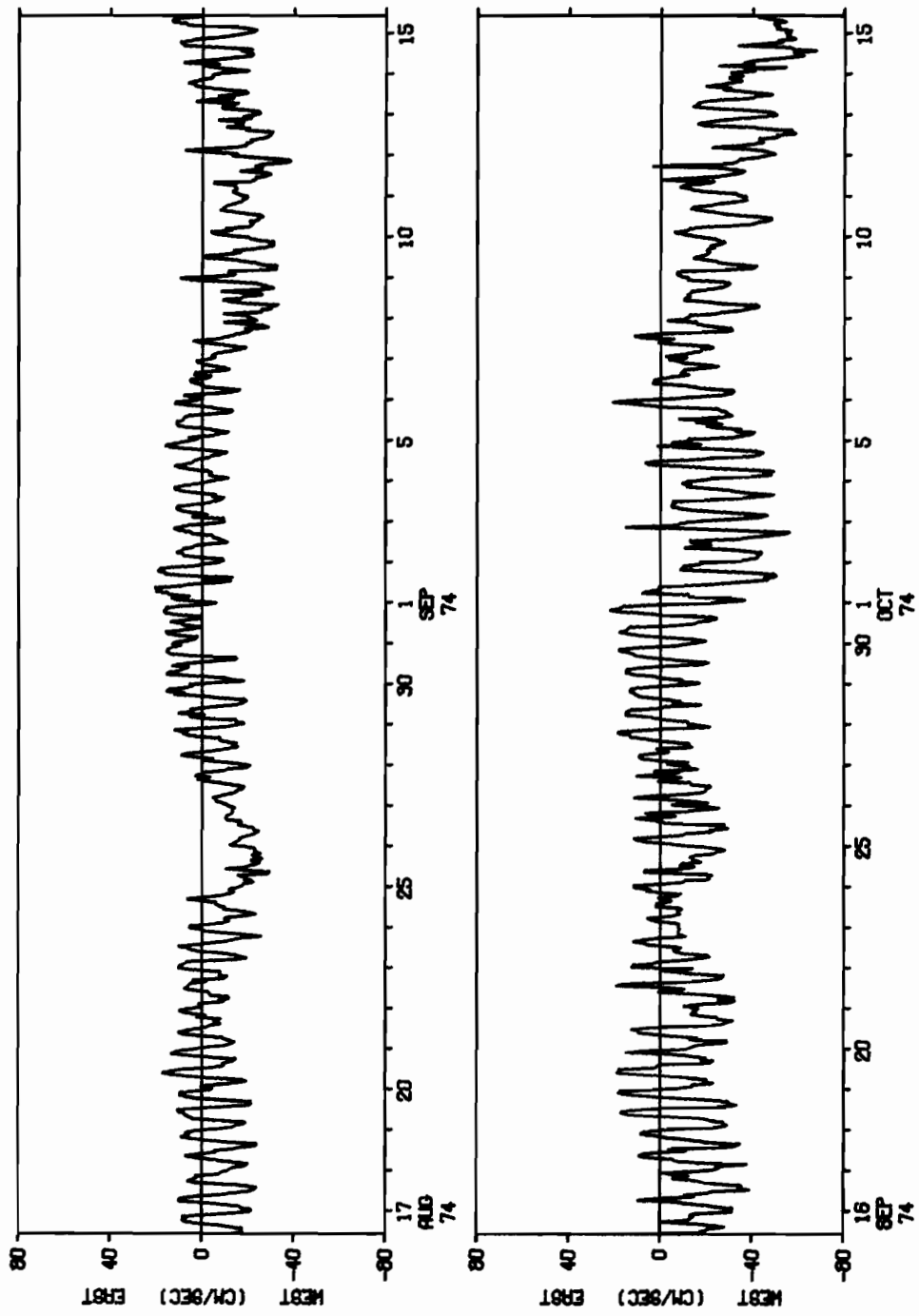
B.3. TIME SERIES ANALYSIS Current Meter 711 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 50.0 METERS.



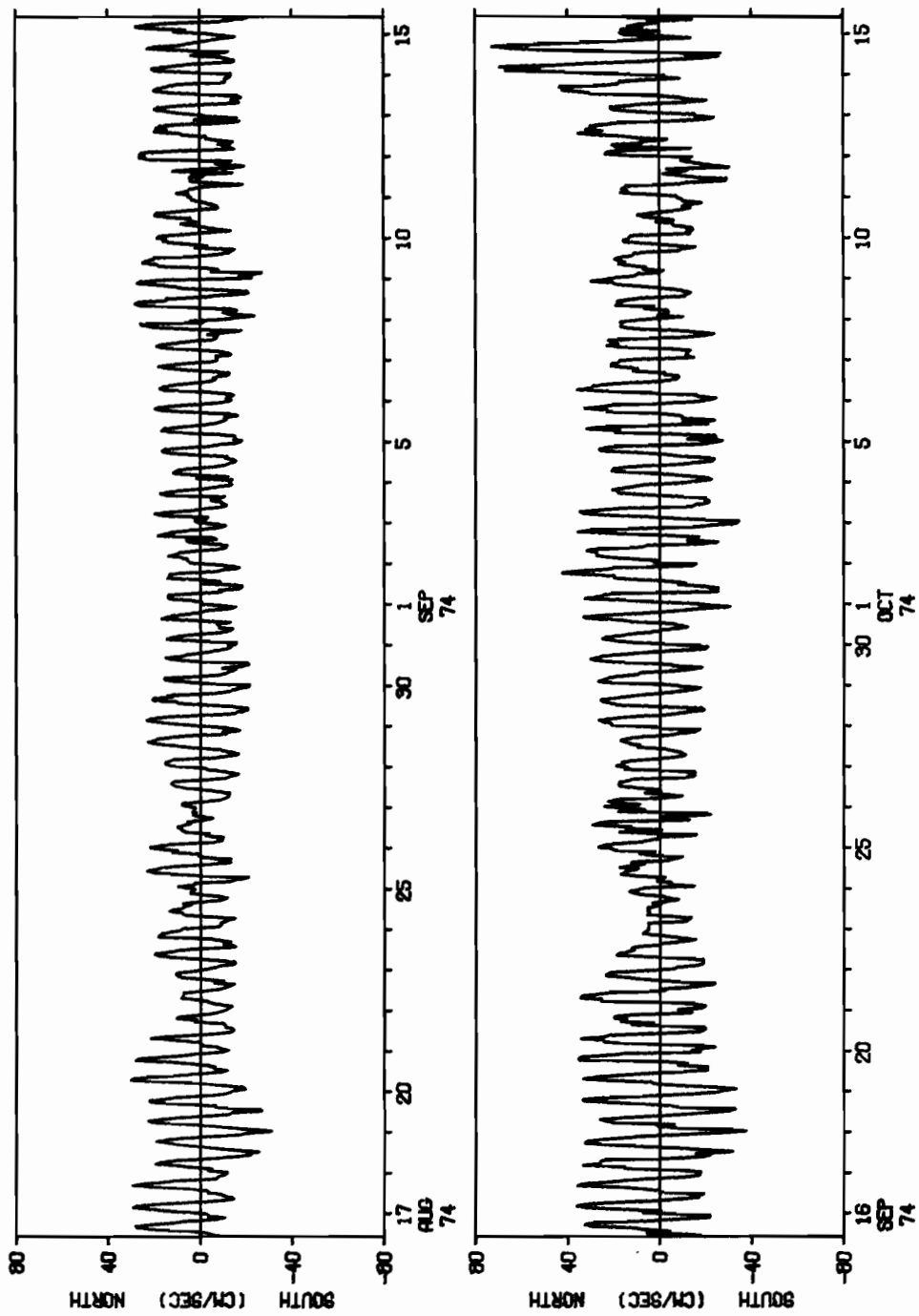
B.3. TIME SERIES ANALYSIS Current Meter 711 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.



B.3. TIME SERIES ANALYSIS Current Meter 711 Part 1 of 2 (Continued)

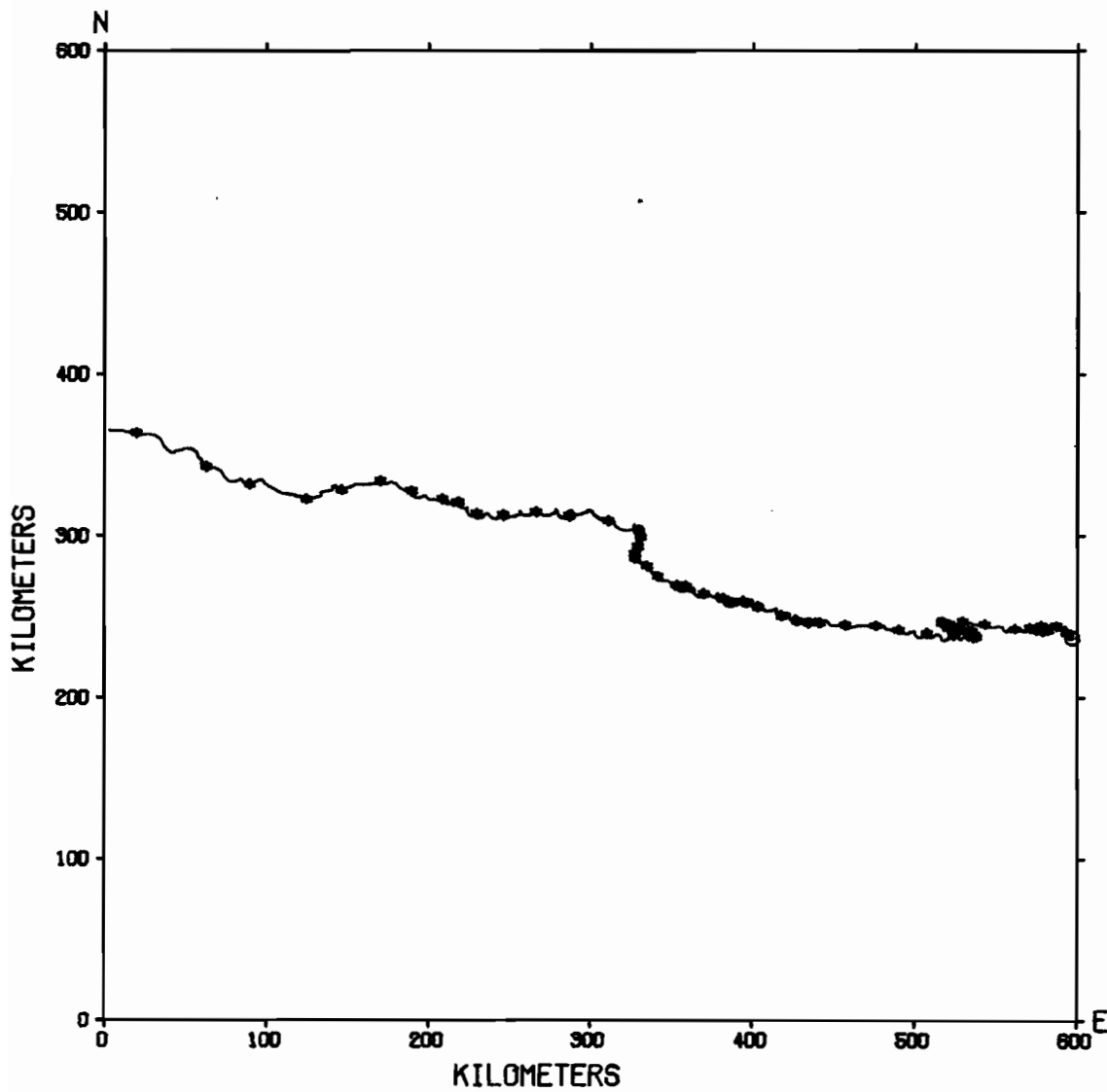
HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.



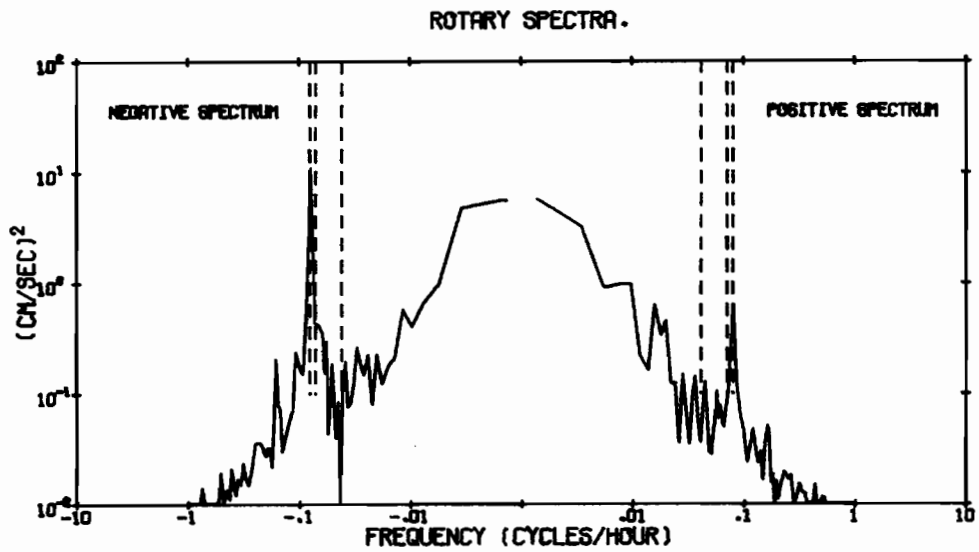
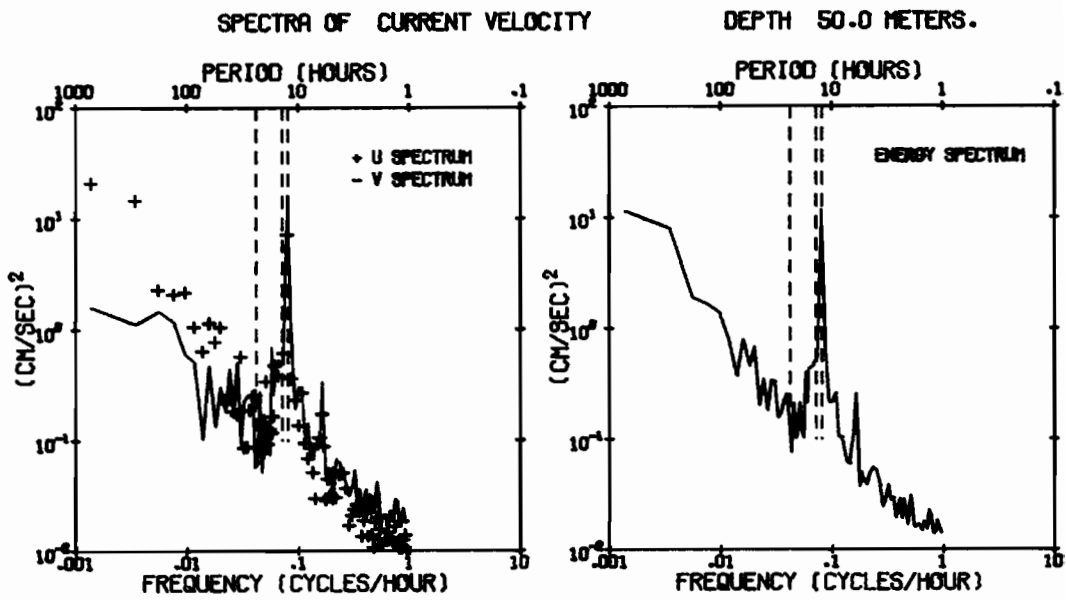


B.3. TIME SERIES ANALYSIS Current Meter 711  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGORA - 61  
OBSERVATION PERIOD 60.0 DAYS FROM 1004 GMT 16 AUG 74.  
DEPTH 50.0 METERS.



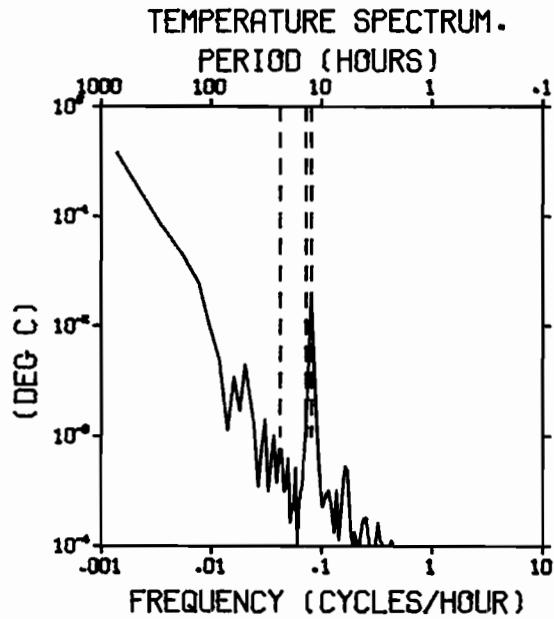
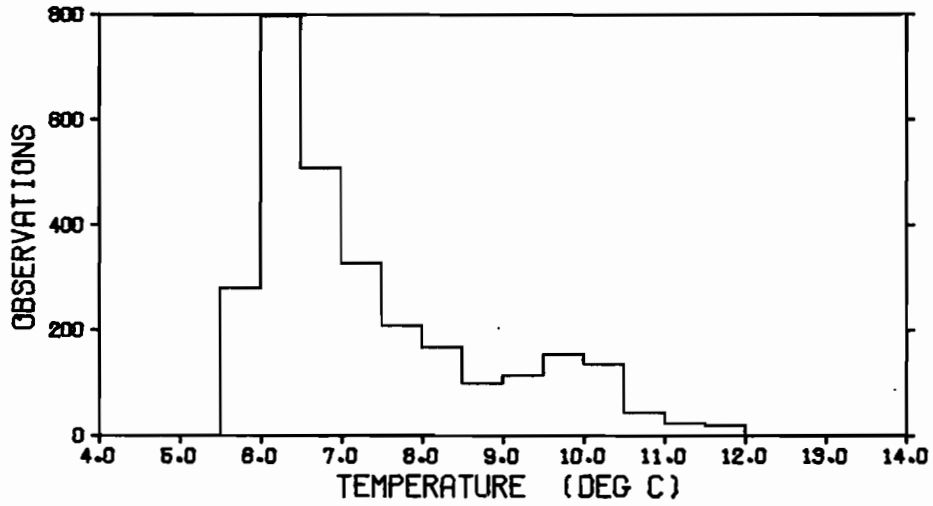
B.3. TIME SERIES ANALYSIS Current Meter 711  
Part 1 of 2 (Continued)



B.3. TIME SERIES ANALYSIS Current Meter 711  
Part 1 of 2 (Continued)

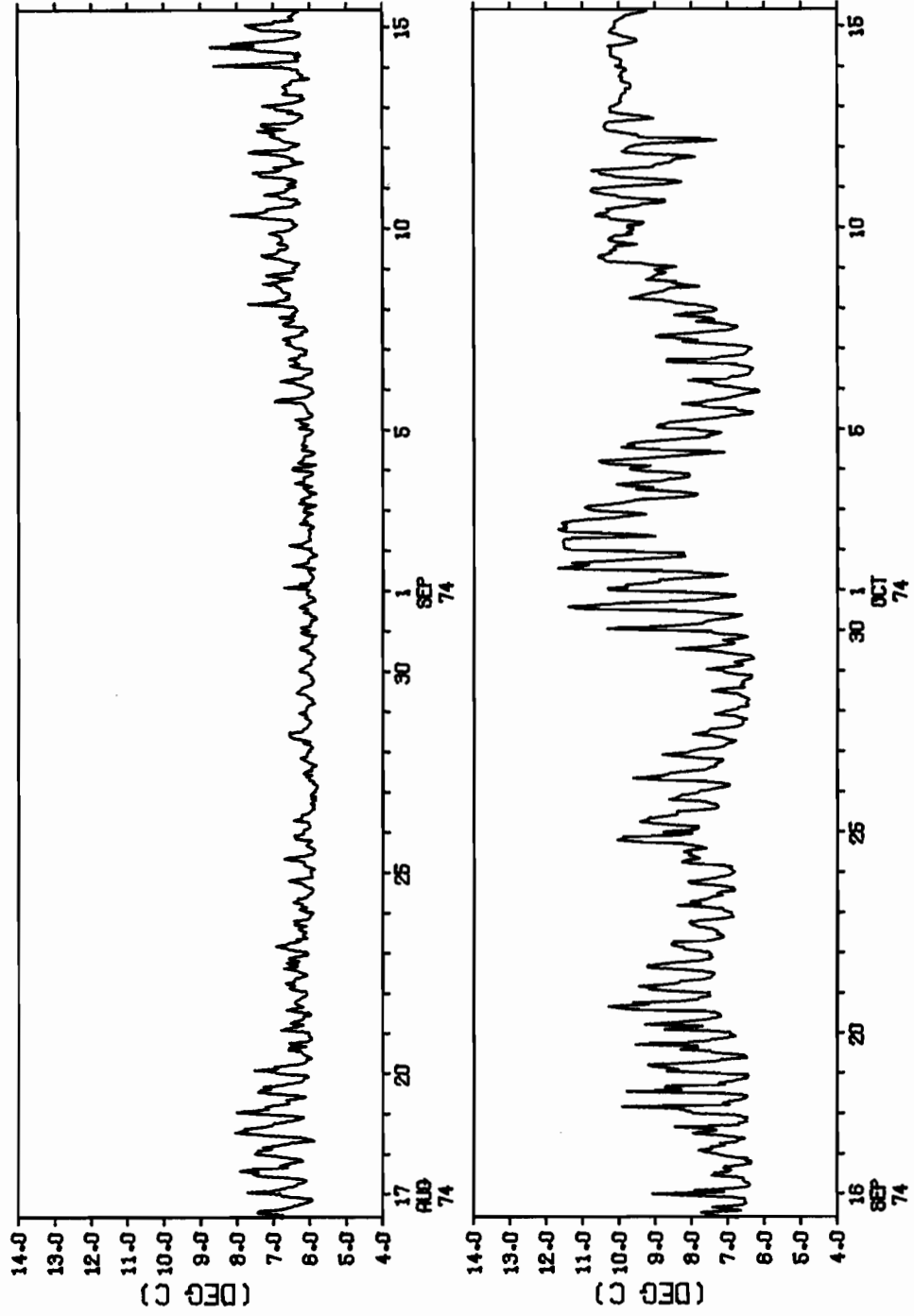
TEMPERATURE STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
DEPTH 50.0 METERS NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 1004 GMT 16 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
7.36	2.03	1.42	1.09	3.17	12.00	5.71



B.3. TIME SERIES ANALYSIS Current Meter 711 Part 1 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 50.0 METERS.

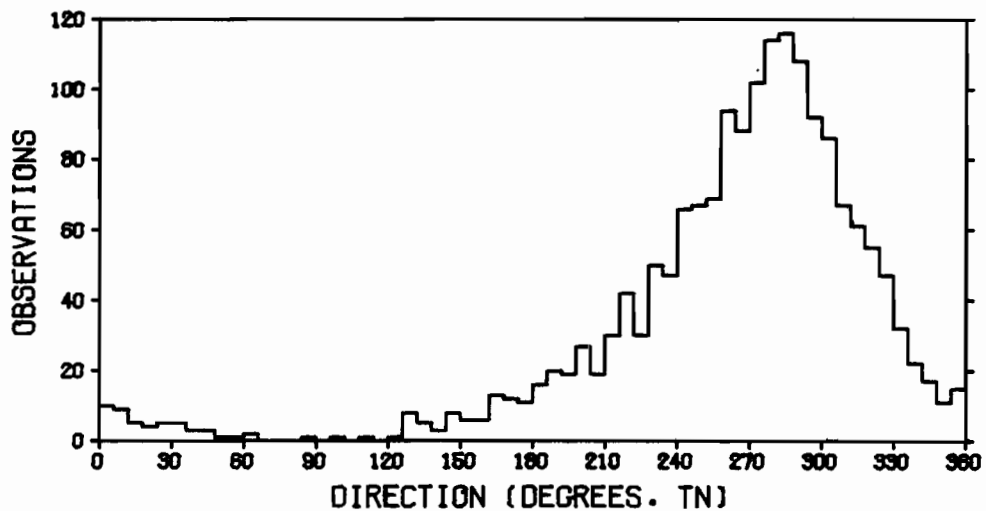
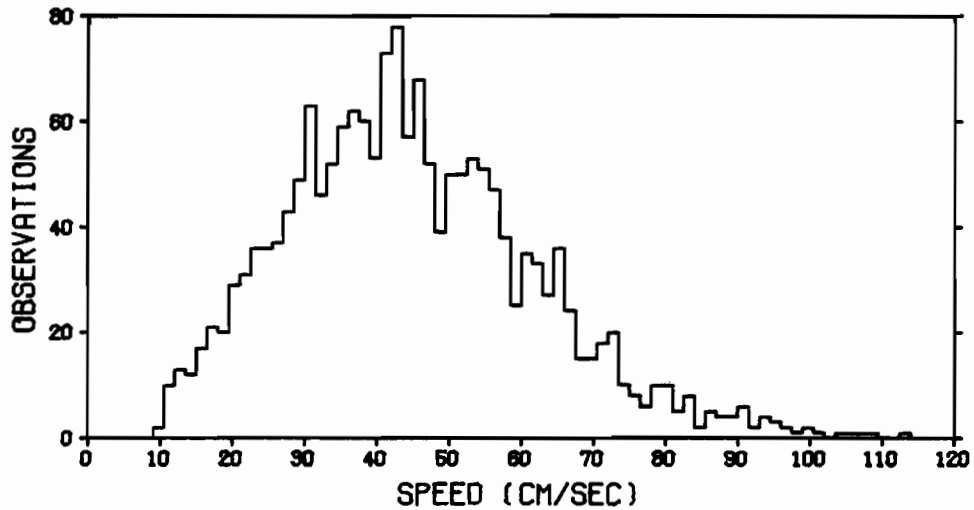


B.3. TIME SERIES ANALYSIS Current Meter 711 Nominal Depth: 50m  
 Part 2 of 2; 16 October - 21 November 1974

Mooring Designation NEGOA 61  
 Location: 59° 34.2'N 145° 47.7W  
 Sensors: Speed, Direction, Temperature

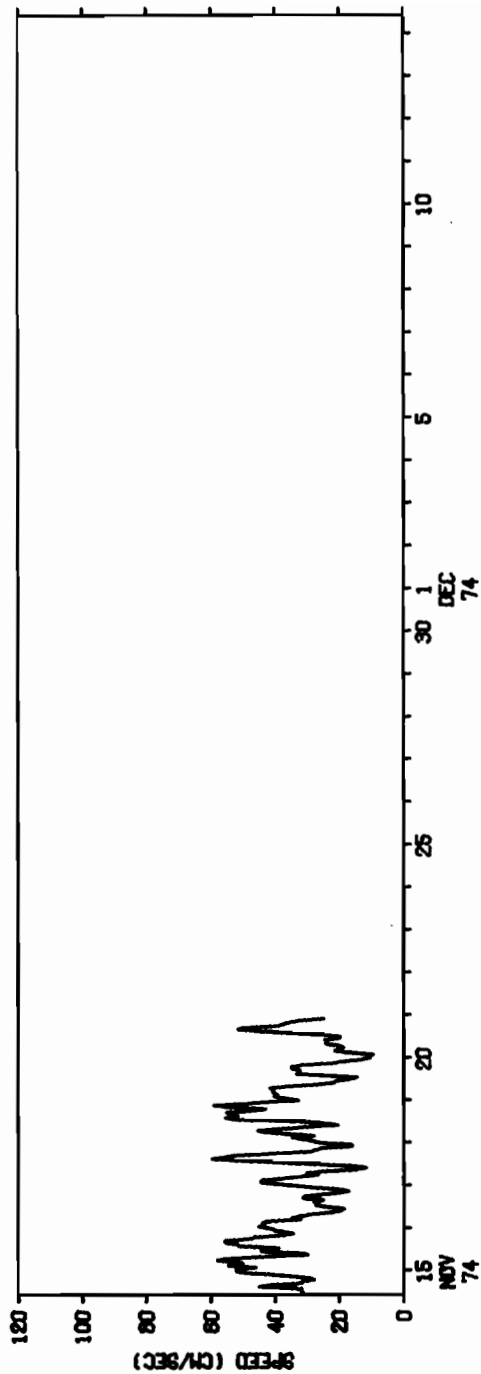
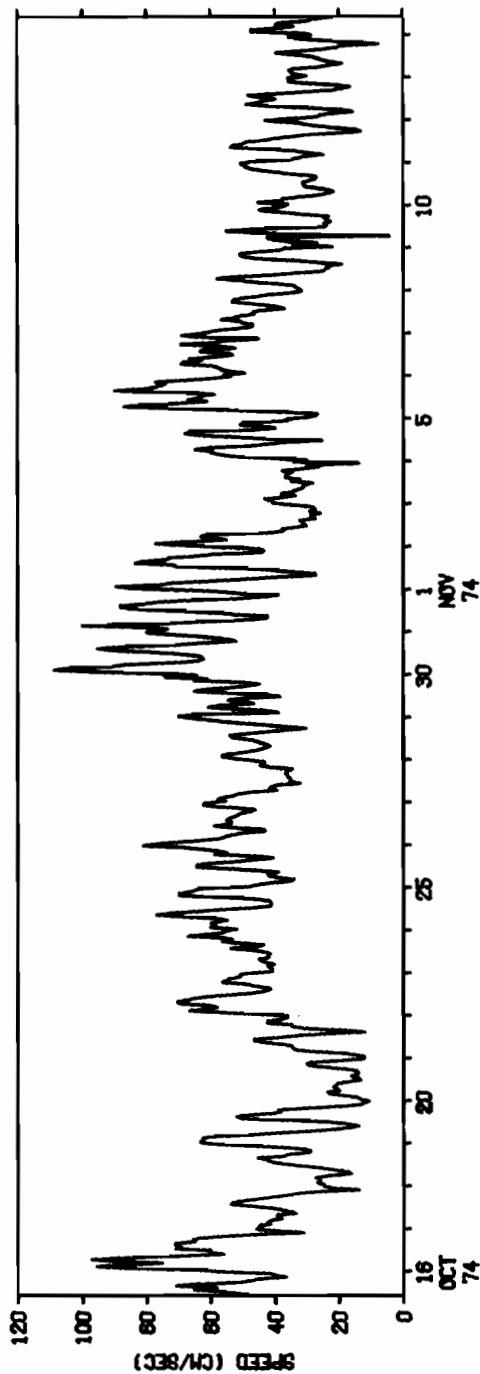
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	44.69	297.71	17.25	.557	3.31	113.57	10.25
U	-34.12	485.50	22.03	.172	3.11	33.21	-105.74
V	3.73	631.01	25.12	-.032	2.63	81.66	-63.49

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



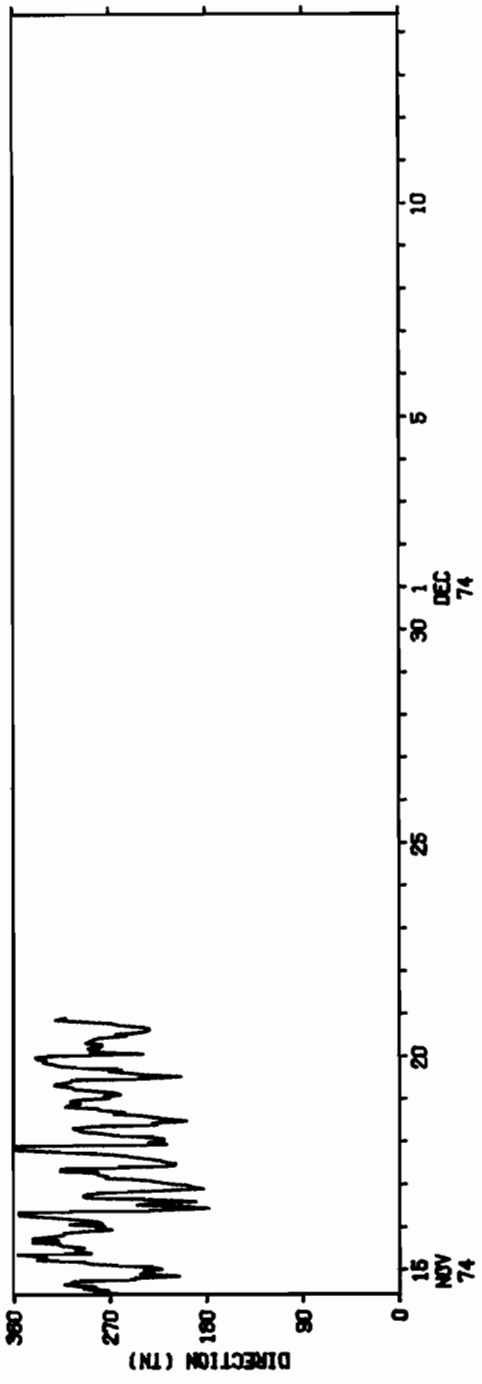
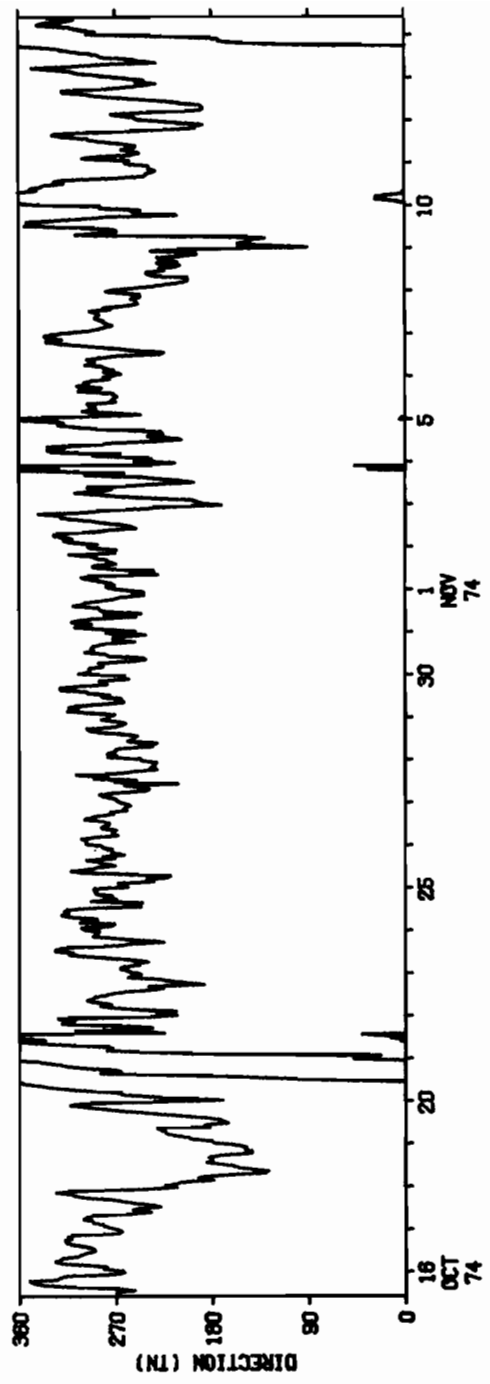
B.3. TIME SERIES ANALYSIS Current Meter 711 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 50.0 METERS.



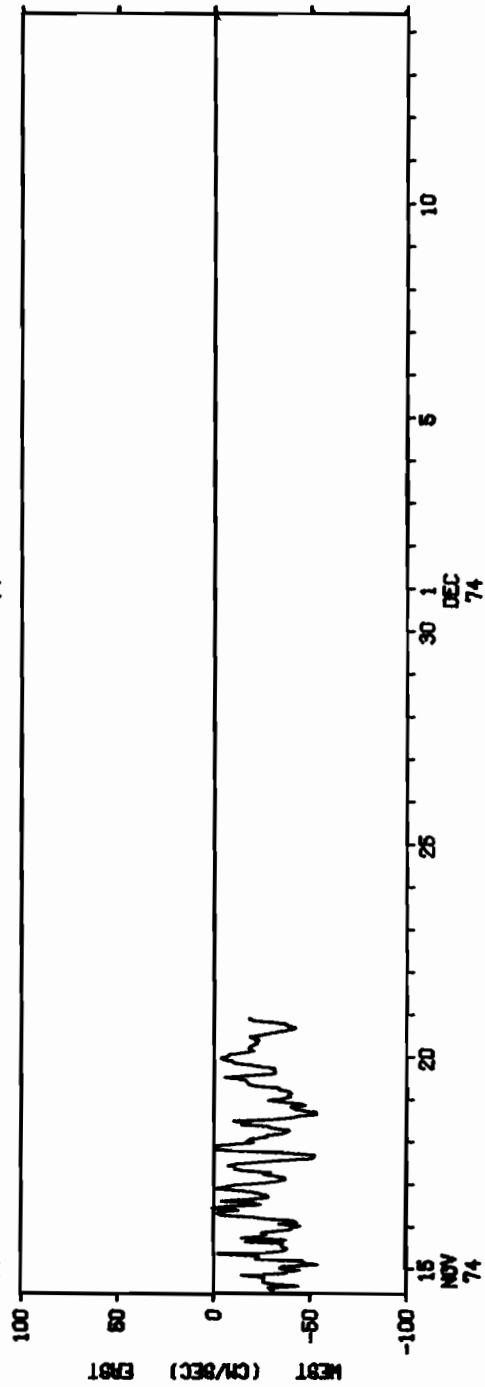
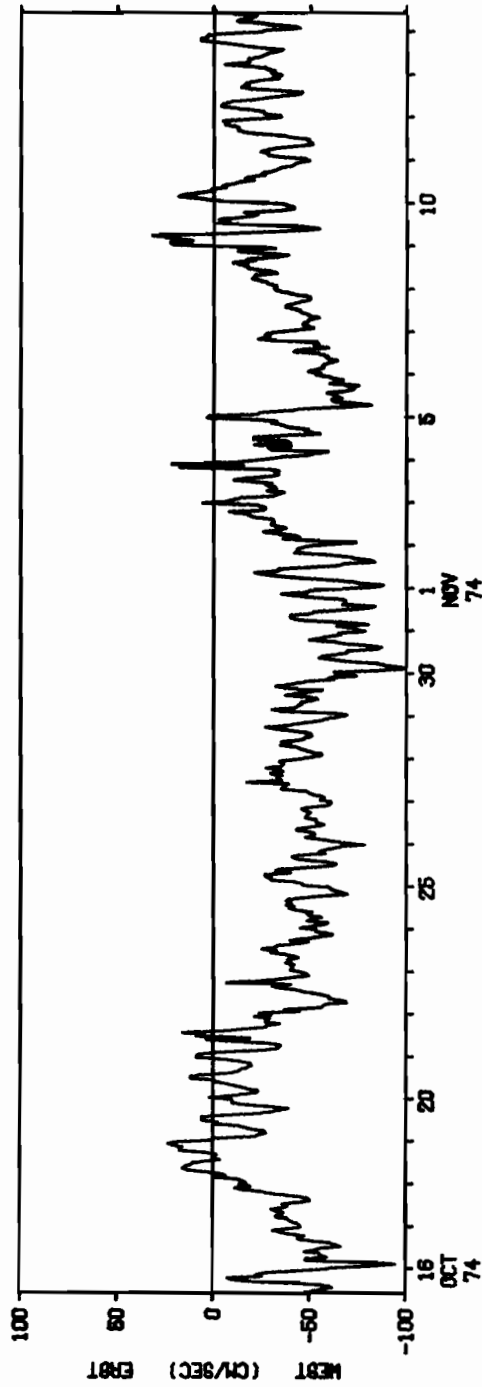
B.3. TIME SERIES ANALYSIS Current Meter 711 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 50.0 METERS.



B.3. TIME SERIES ANALYSIS Current Meter 711 Part 2 of 2 (Continued)

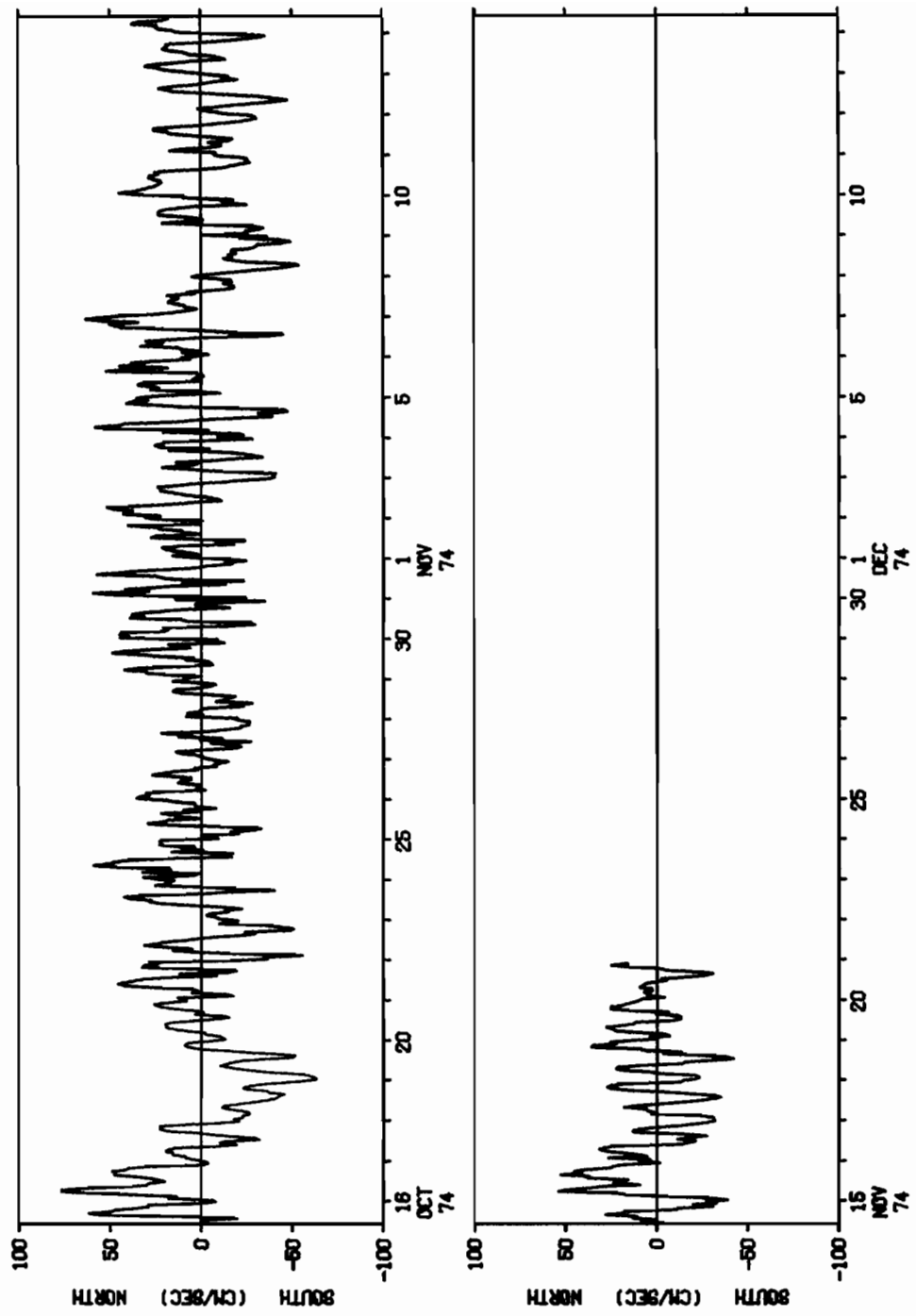
HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.





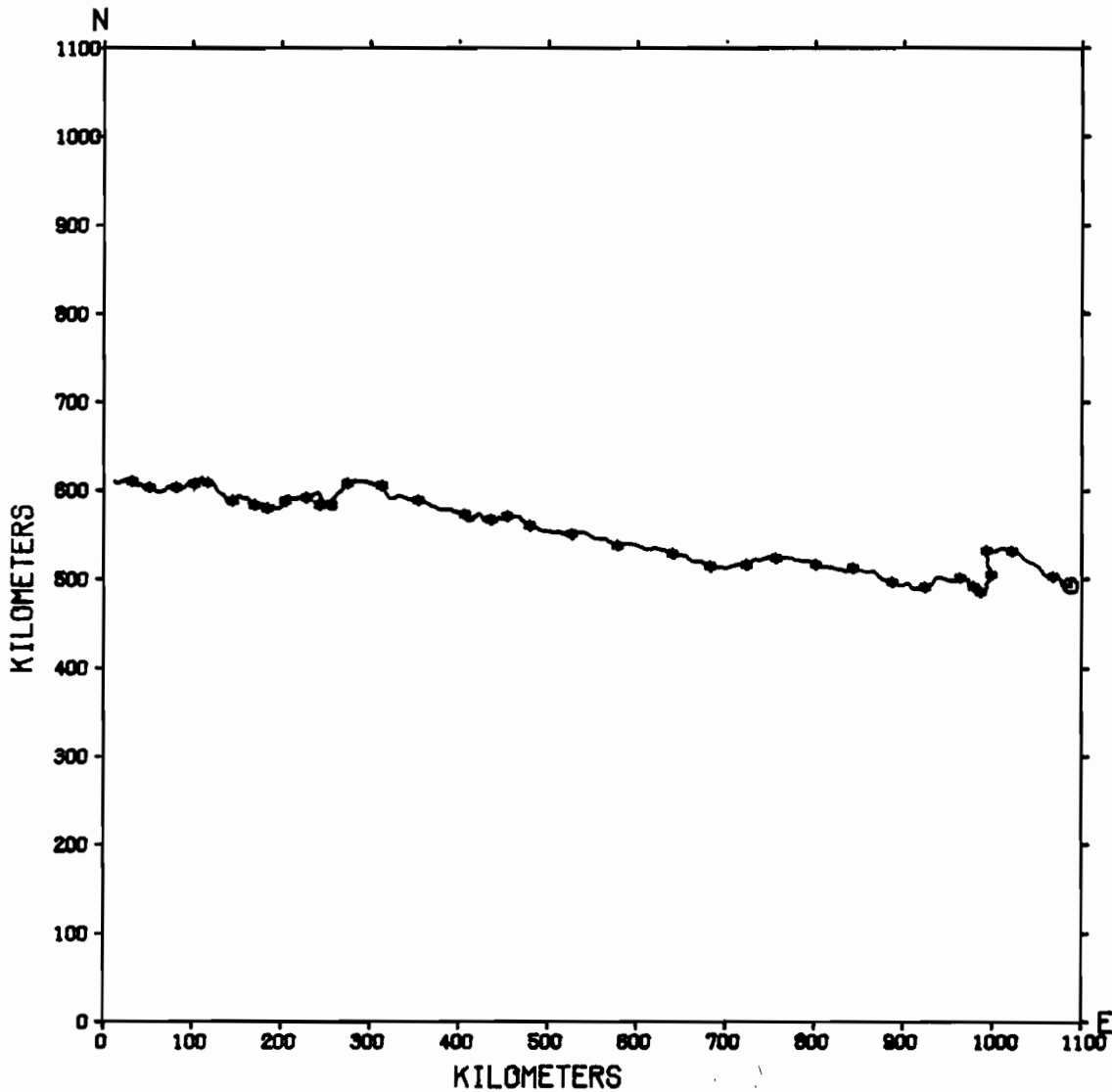
B.3. TIME SERIES ANALYSIS Current Meter 711 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.

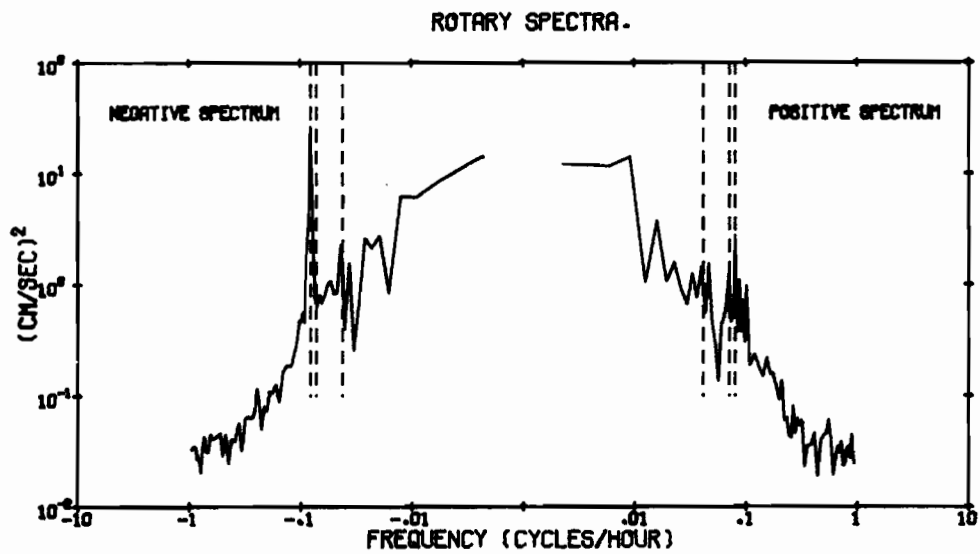
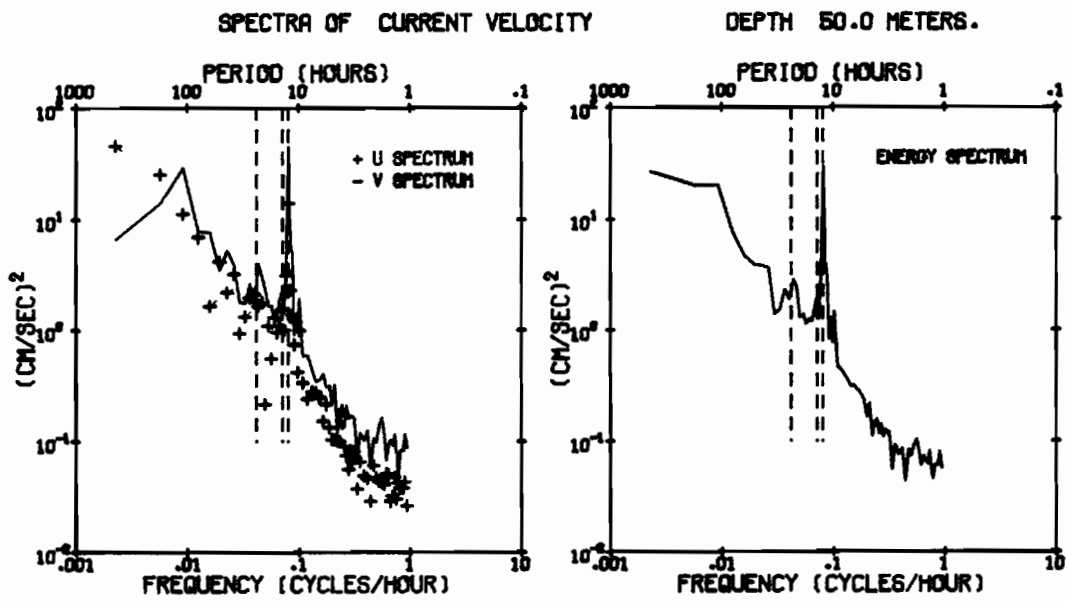


B.3. TIME SERIES ANALYSIS Current Meter 711  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEG0A - 61  
OBSERVATION PERIOD 36.5 DAYS FROM 1004 GMT 15 OCT 74.  
DEPTH 50.0 METERS.



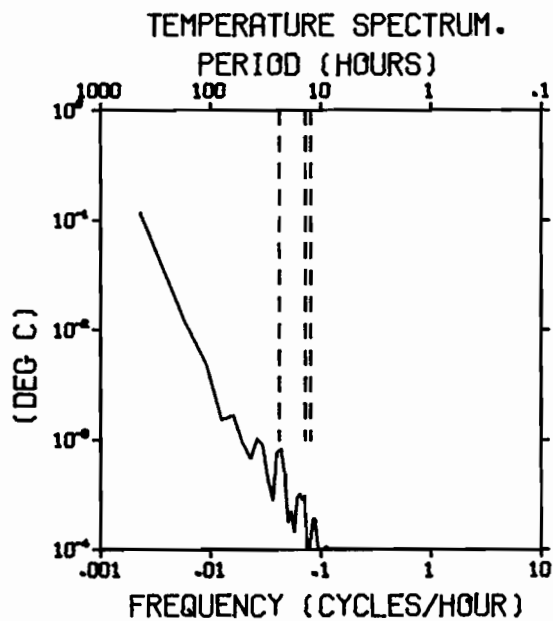
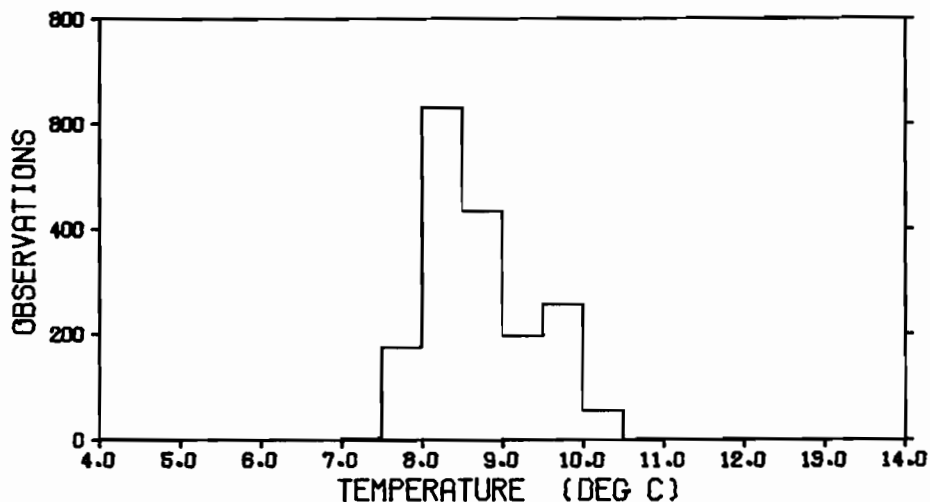
B.3. TIME SERIES ANALYSIS Current Meter 711  
Part 2 of 2 (Continued)



B.3. TIME SERIES ANALYSIS Current Meter 711  
 Part 2 of 2 (Continued)

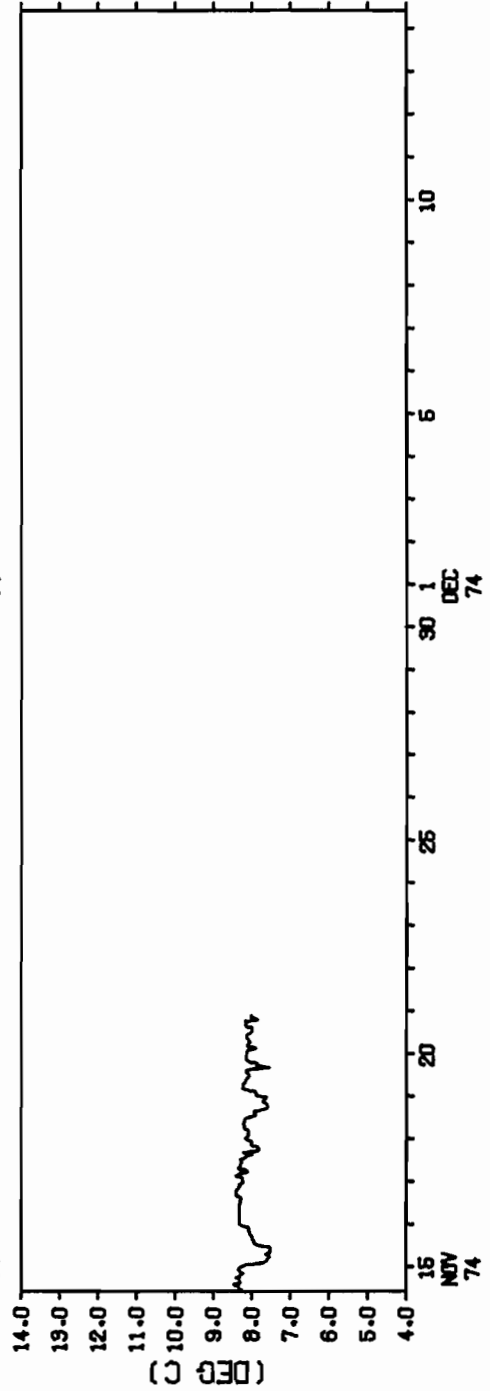
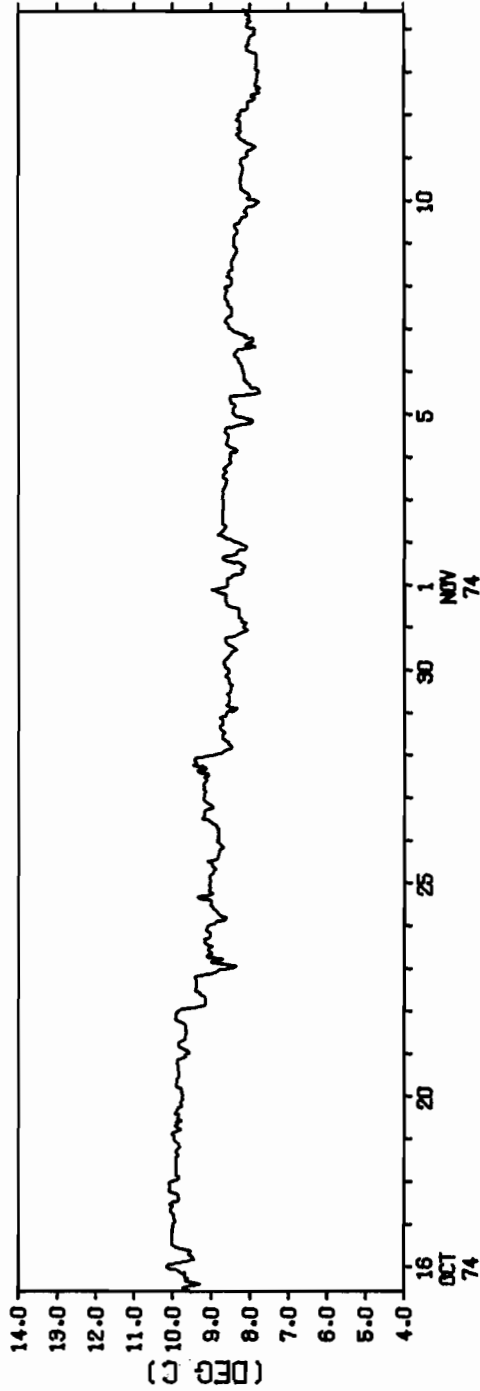
TEMPERATURE STATISTICS LAT. 59 34.2N LONG. 145 47.7W  
 DEPTH 50.0 METERS NUMBER OF OBSERVATIONS = 1753  
 OBSERVATION PERIOD 36.5 DAYS FROM 1004 GMT 15 OCT 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
8.70	.44	.66	.65	2.35	10.26	7.45



B.3. TIME SERIES ANALYSIS Current Meter 711 Part 2 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 50.0 METERS.

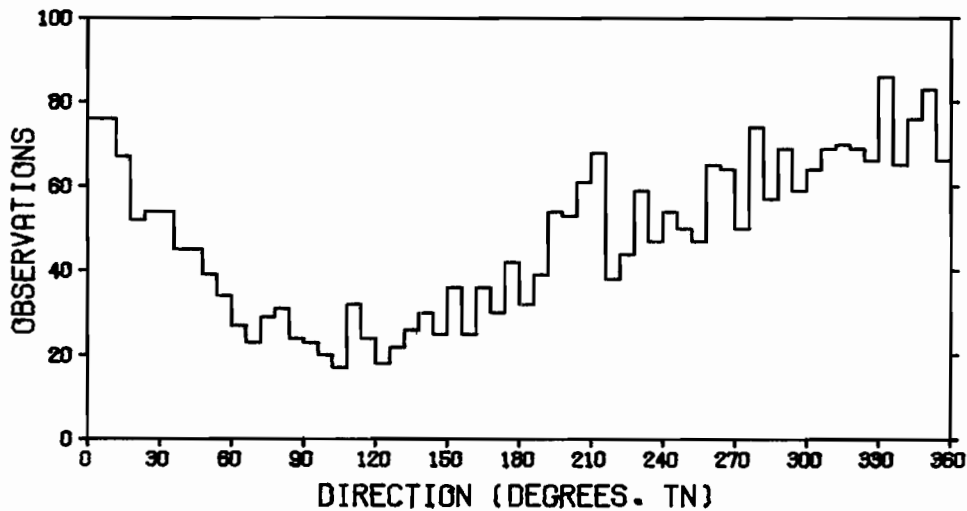
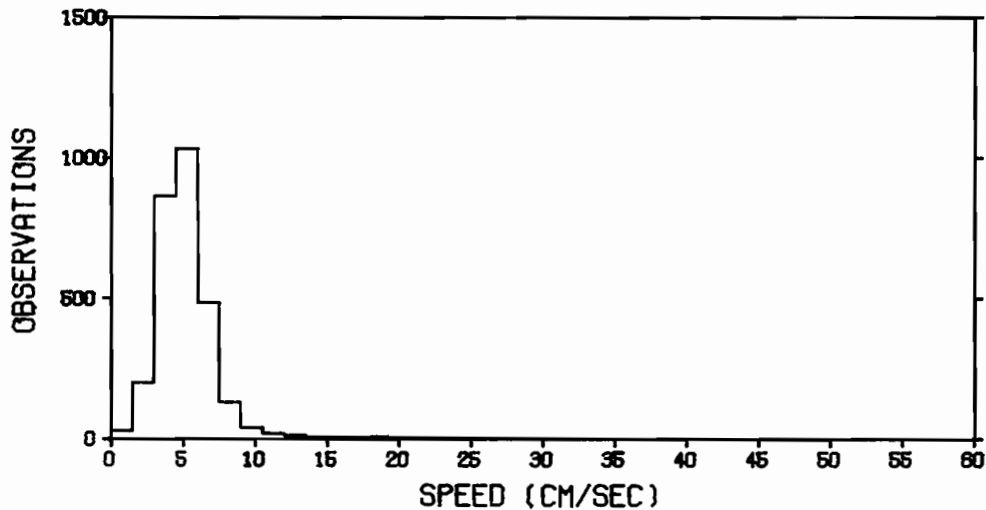


B.4. TIME SERIES ANALYSIS Current Meter 603 Nominal Depth: 100m  
 Part 1 of 2; 16 August - 21 November 1974.

Mooring Designation NEGOA 61  
 Location: 59° 34.2'N 145° 47.7W  
 Sensors: Speed, Direction, Temperature

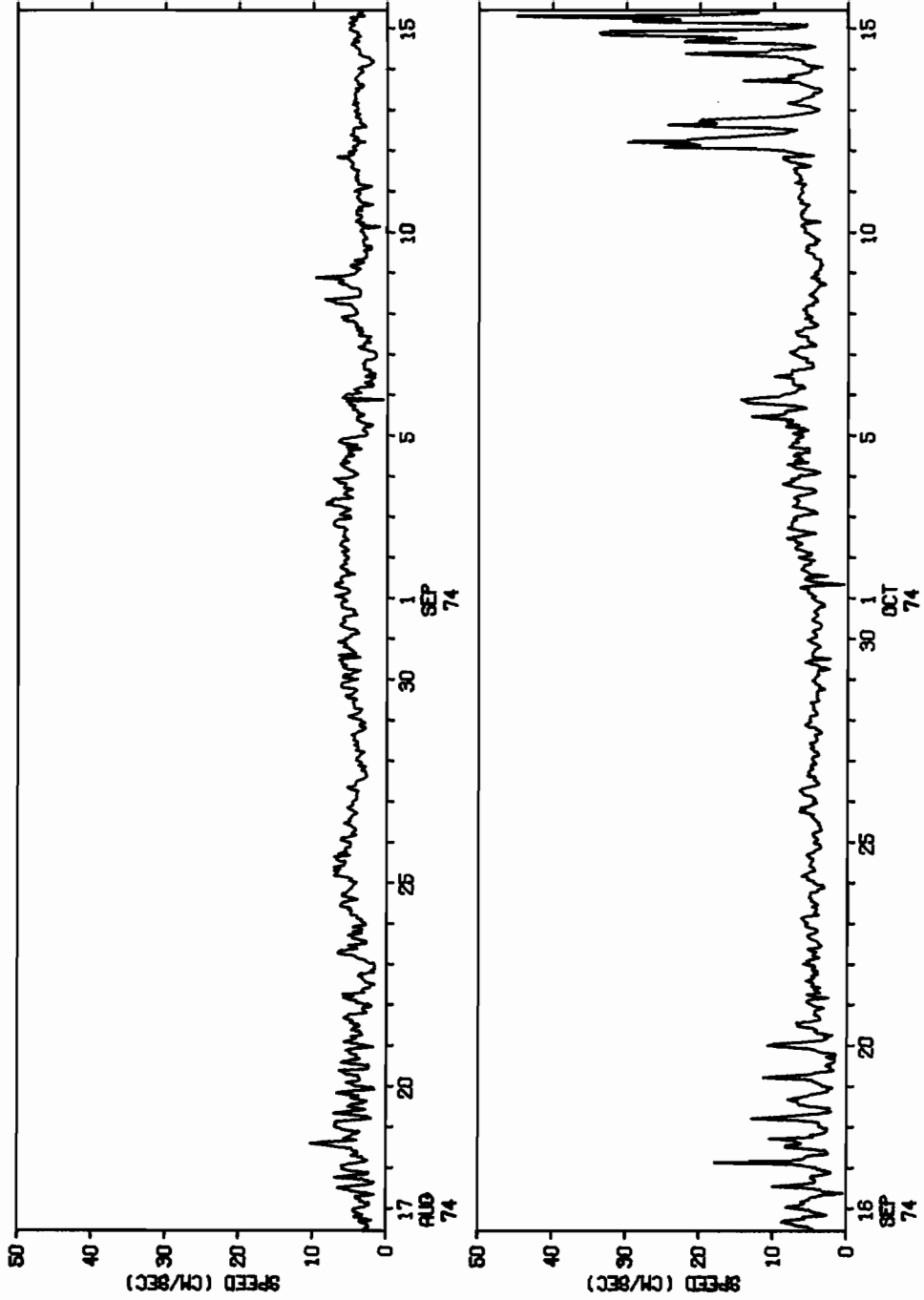
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	5.40	10.89	3.30	5.299	44.65	50.15	1.50
U	-1.45	18.91	4.35	-2.036	16.12	8.02	-50.06
V	.94	18.19	4.27	.769	7.12	34.88	-10.94

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



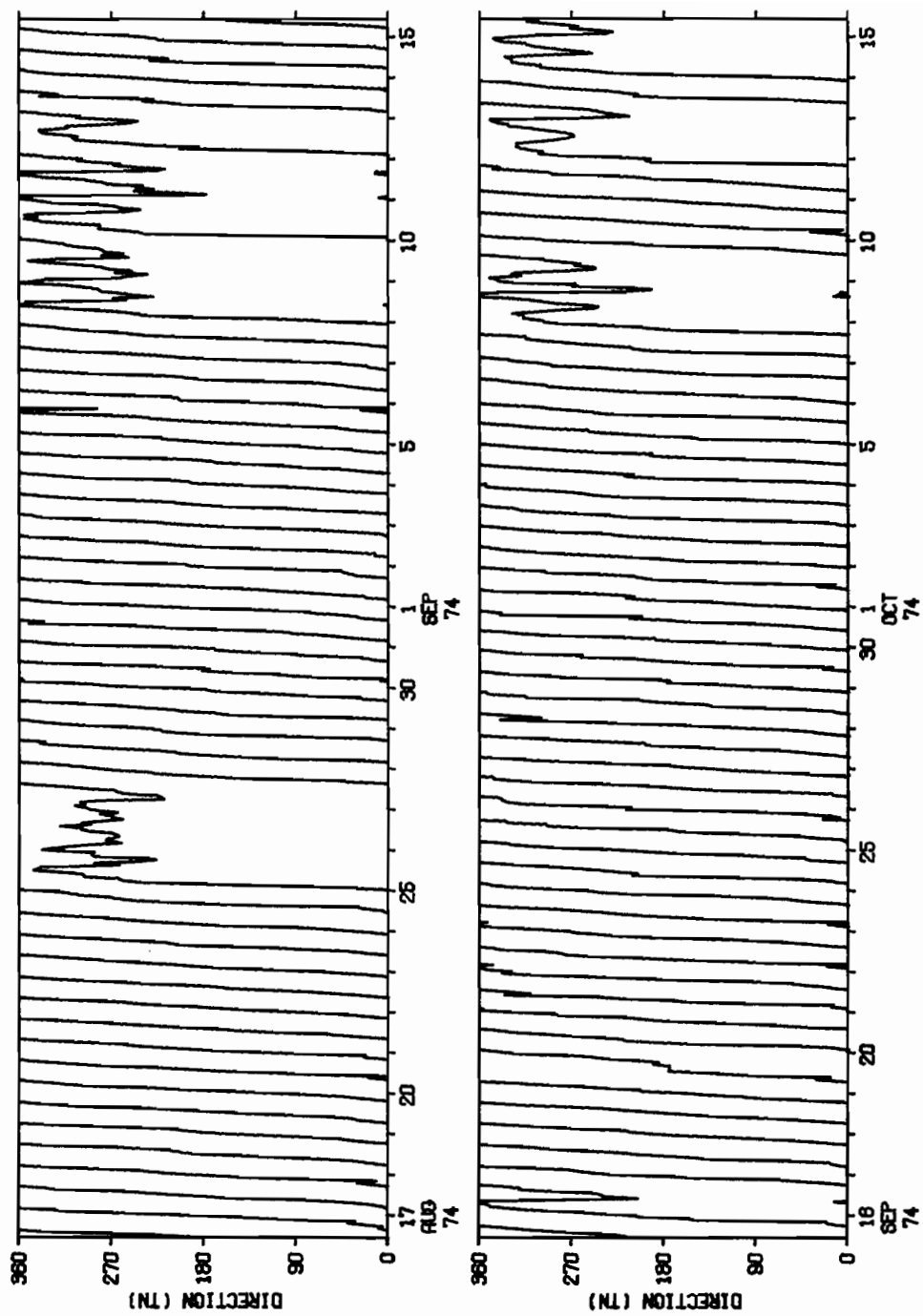
B.4. TIME SERIES ANALYSIS Current Meter 603 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 100.0 METERS.



B.4. TIME SERIES ANALYSIS Current Meter 603 Part 1 of 2 (Continued)

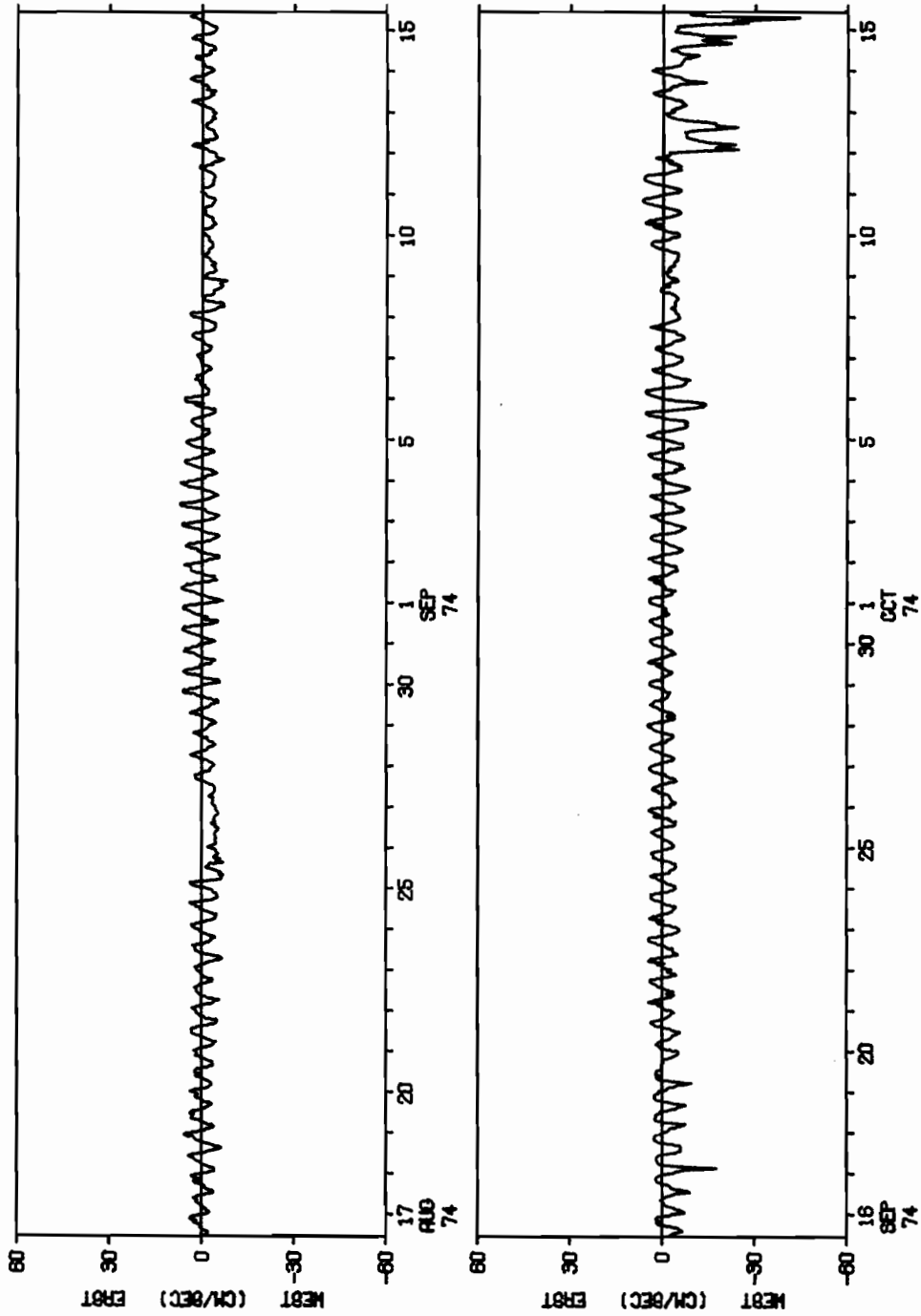
HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 100.0 METERS.





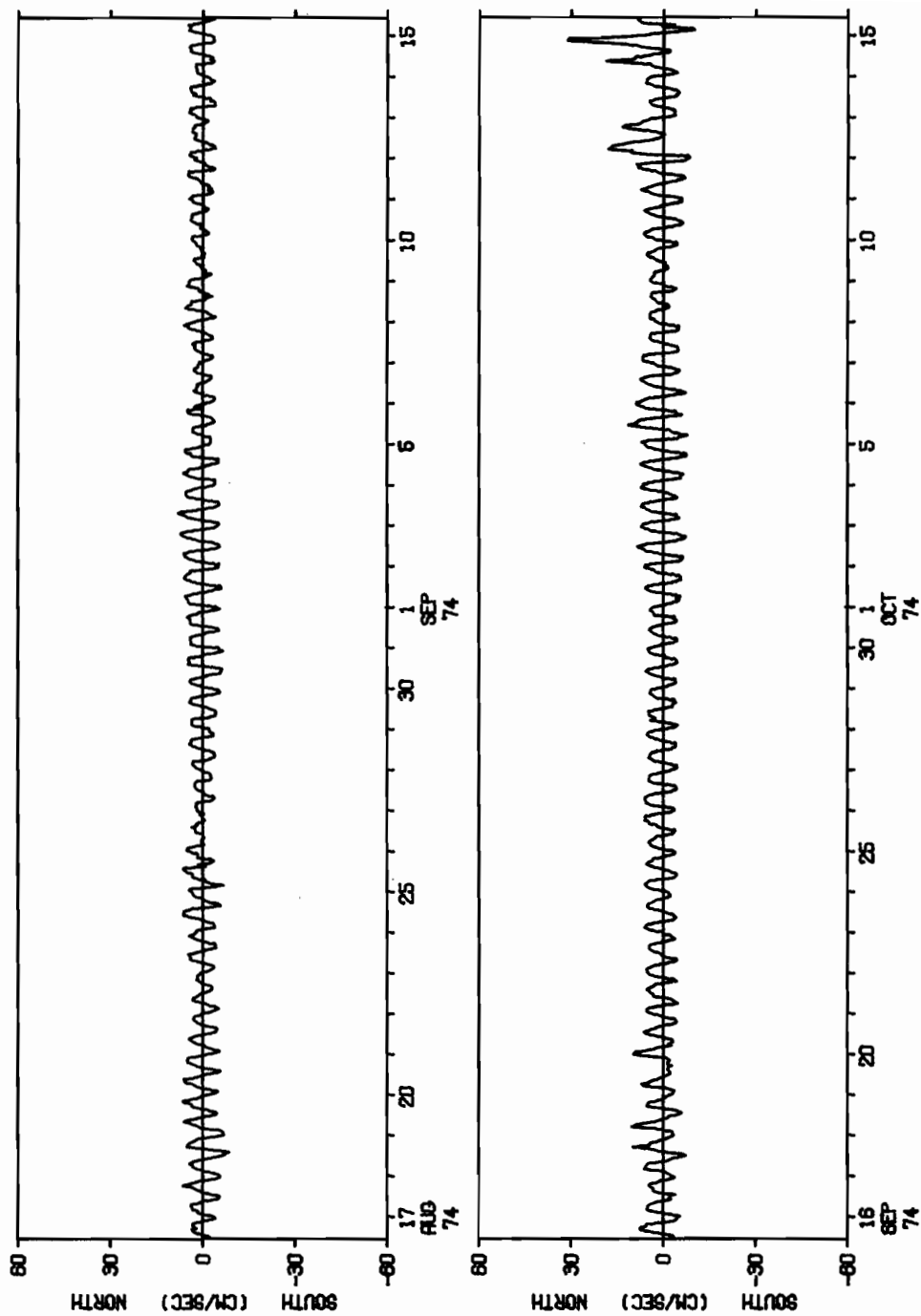
B.4. TIME SERIES ANALYSIS Current Meter 603 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.



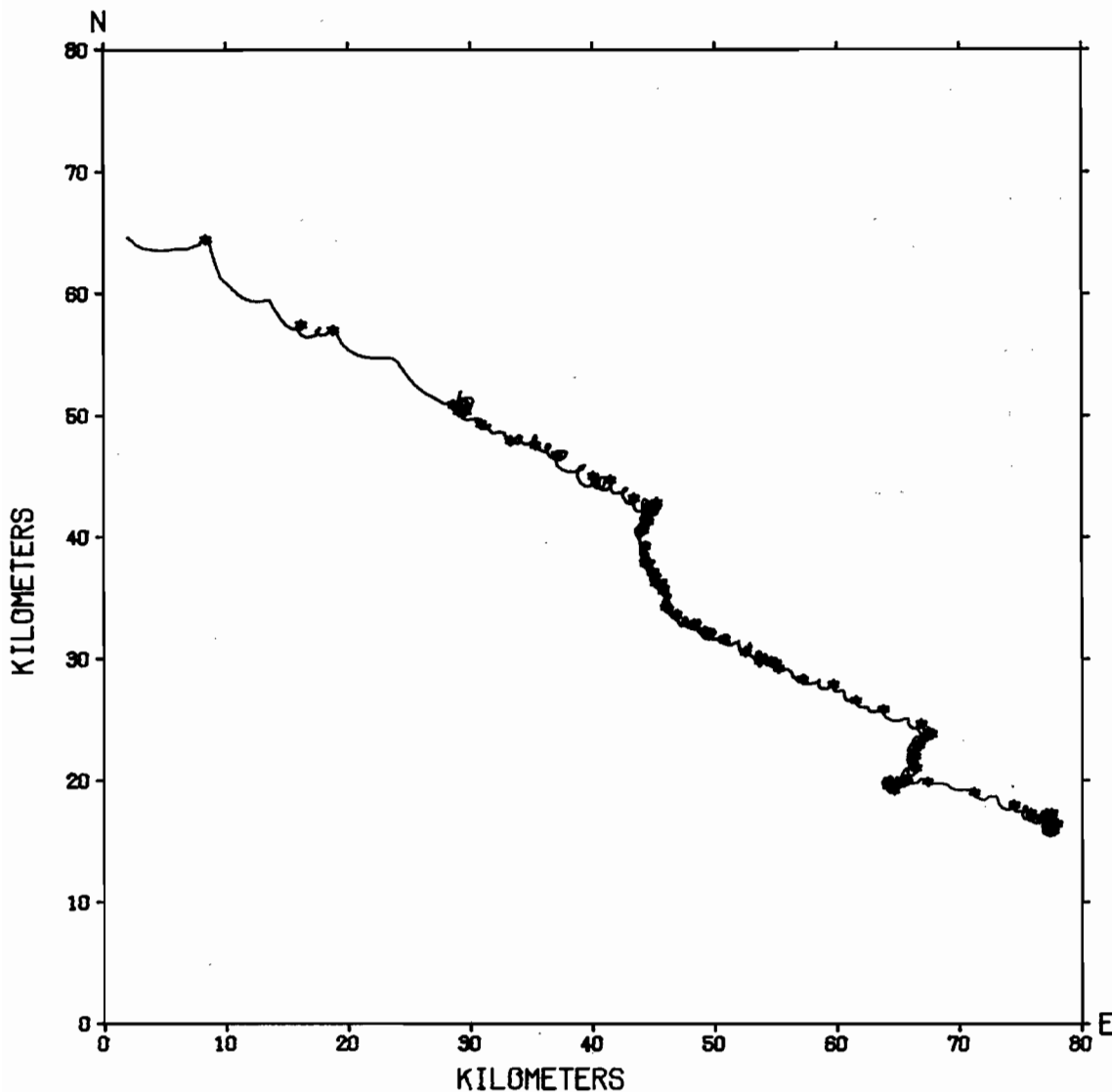
B.4. TIME SERIES ANALYSIS Current Meter 603 Part 1 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.

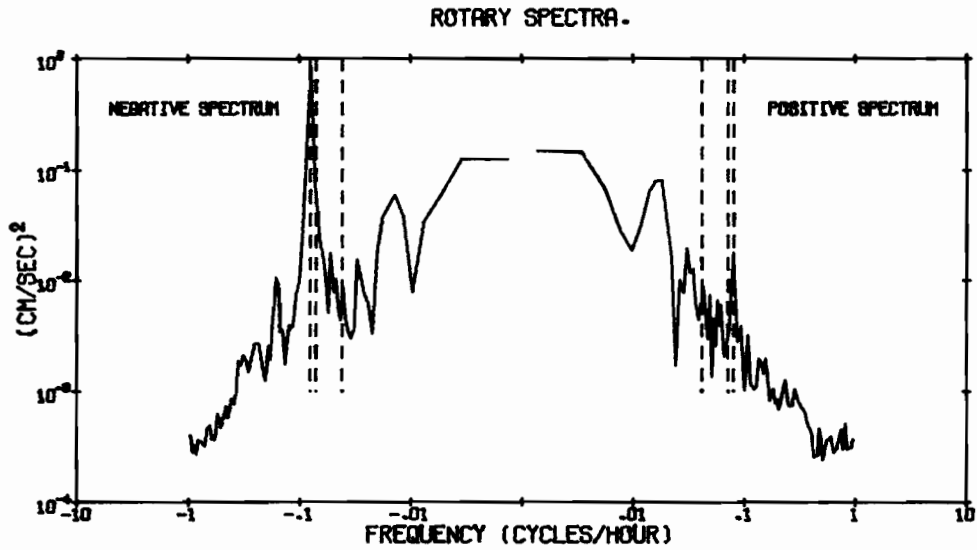
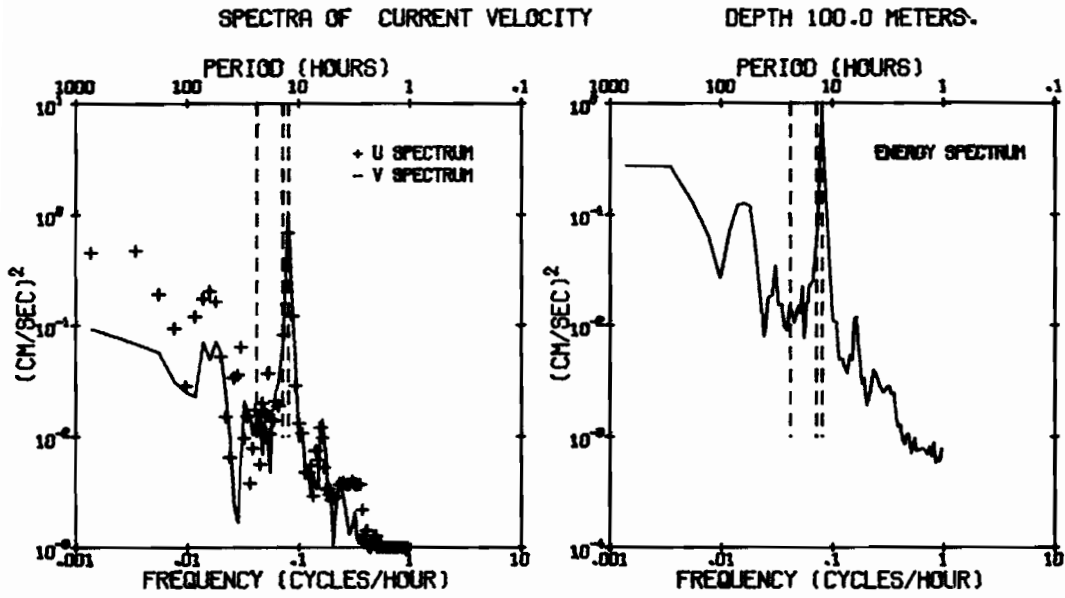


B.4. TIME SERIES ANALYSIS Current Meter 603  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 61  
OBSERVATION PERIOD 60.0 DAYS FROM 1036 GMT 16 AUG 74.  
DEPTH 100.0 METERS.



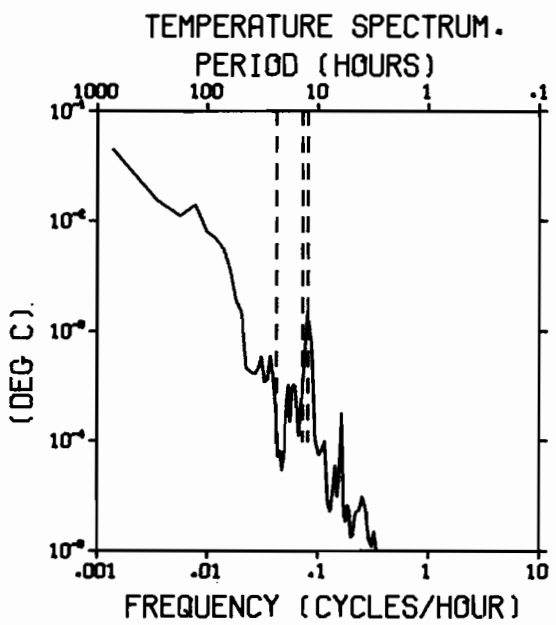
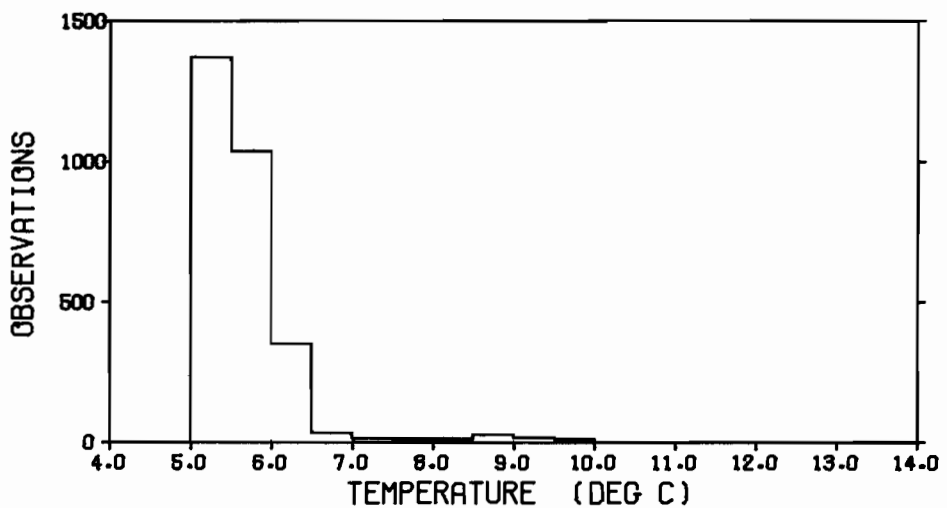
B.4. TIME SERIES ANALYSIS Current Meter 603  
 Part 1 of 2 (Continued)



B.4. TIME SERIES ANALYSIS Current Meter 603  
Part 1 of 2 (Continued)

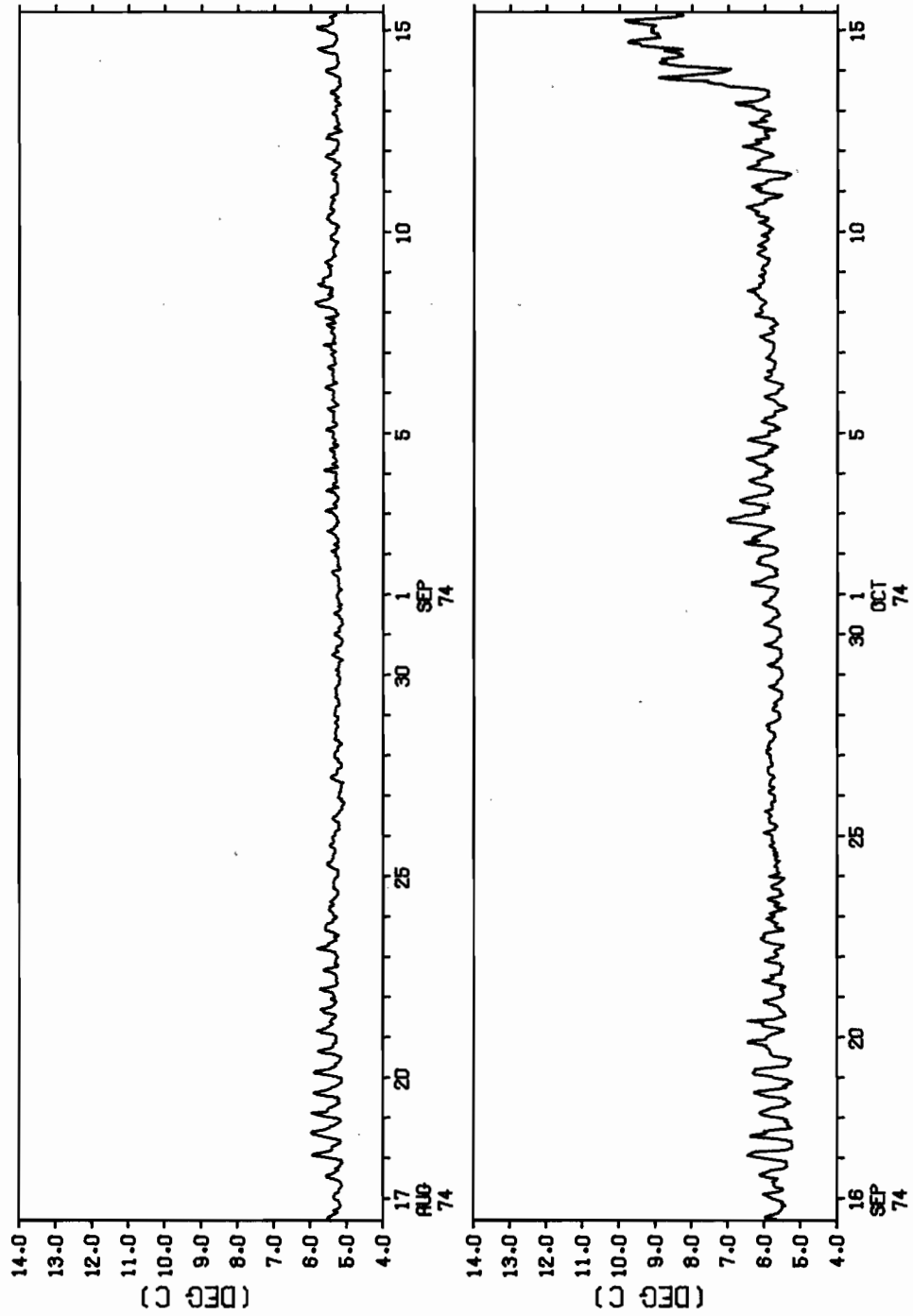
TEMPERATURE STATISTICS      LAT. 59 34.2N    LONG. 145 47.7W  
DEPTH 100.0 METERS          NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 1036 GMT 16 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKREW	KURT	MAX (DEG C)	MIN (DEG C)
5.68	.40	.63	3.65	19.89	9.86	5.05



B.4. TIME SERIES ANALYSIS Current Meter 603 Part 1 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 100.0 METERS.

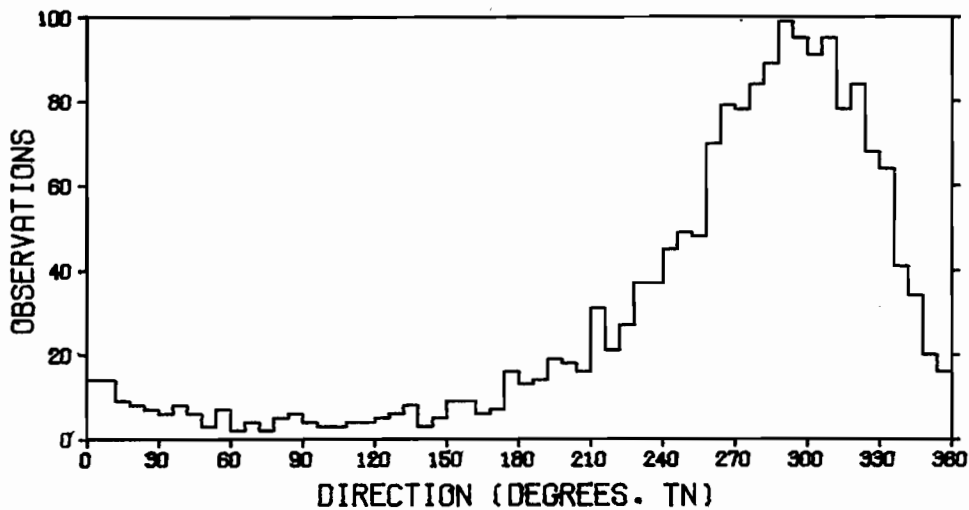
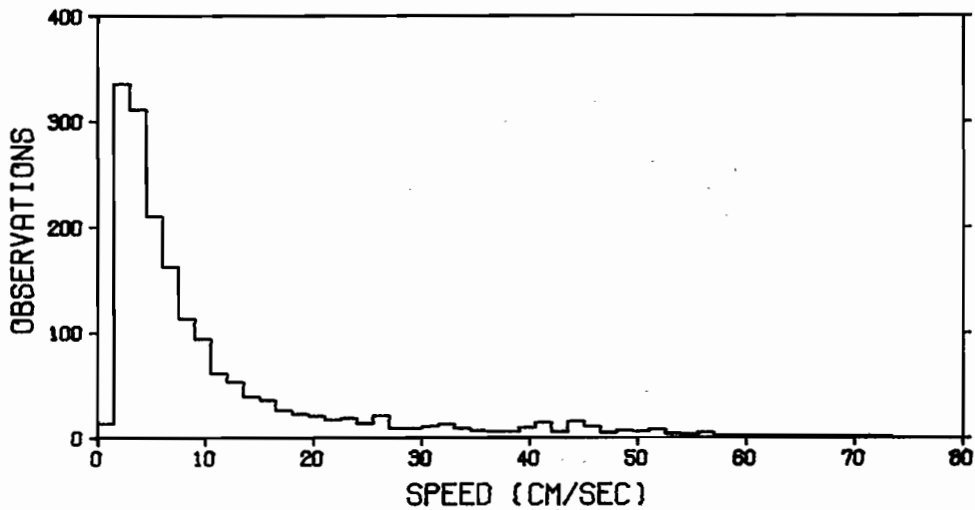


B.4. TIME SERIES ANALYSIS Current Meter 603 Nominal Depth: 100m  
 Part 2 of 2; 16 October - 21 November 1974

Mooring Designation NEG0A 61  
 Location: 59° 34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

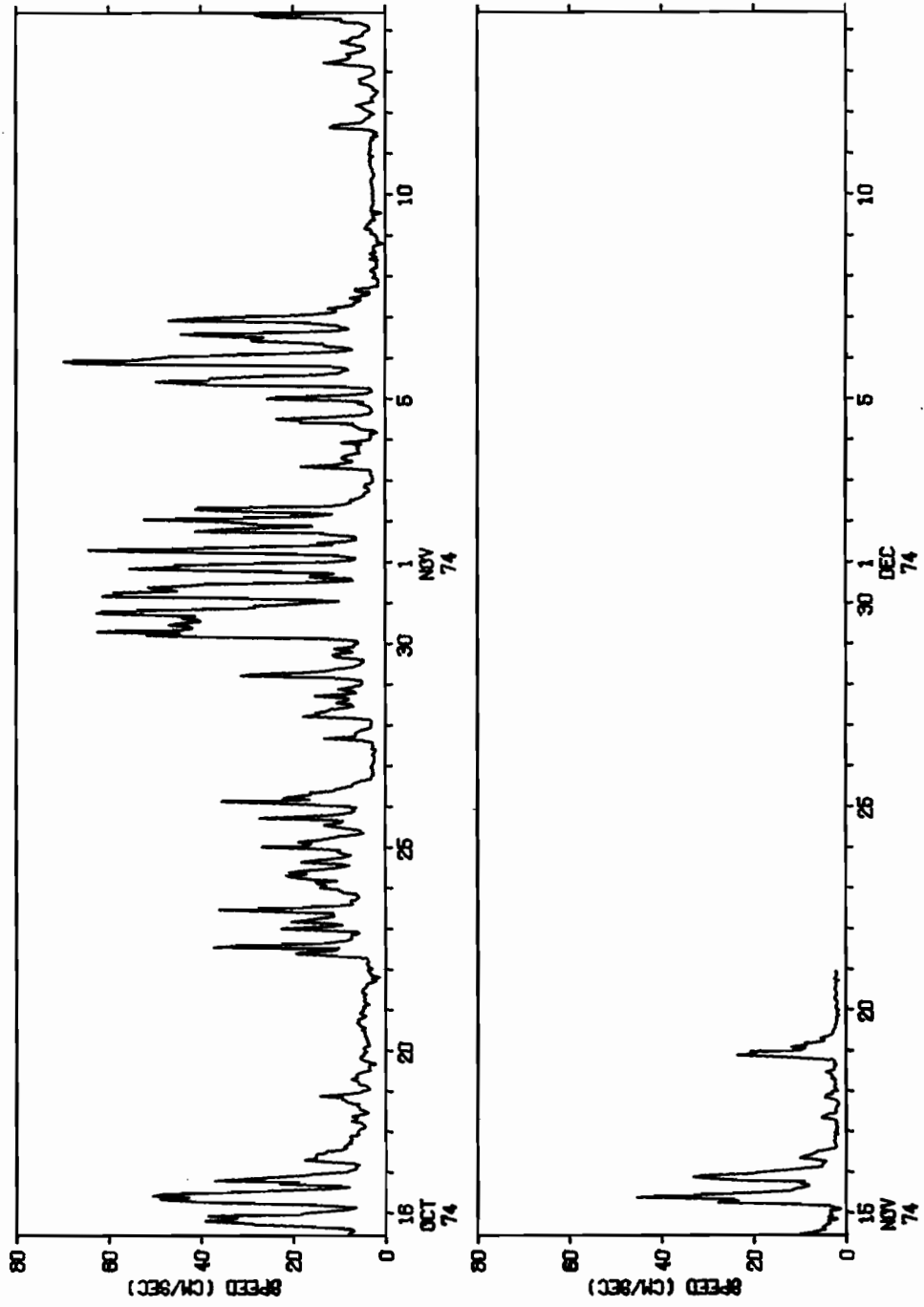
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	10.95	156.13	12.50	2.204	7.64	72.29	1.50
U	-8.15	130.83	11.44	-2.203	8.23	6.37	-71.46
V	3.33	67.56	8.22	1.973	9.12	52.79	-26.57

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



B.4. TIME SERIES ANALYSIS Current Meter 603 Part 2 of 2 (Continued)

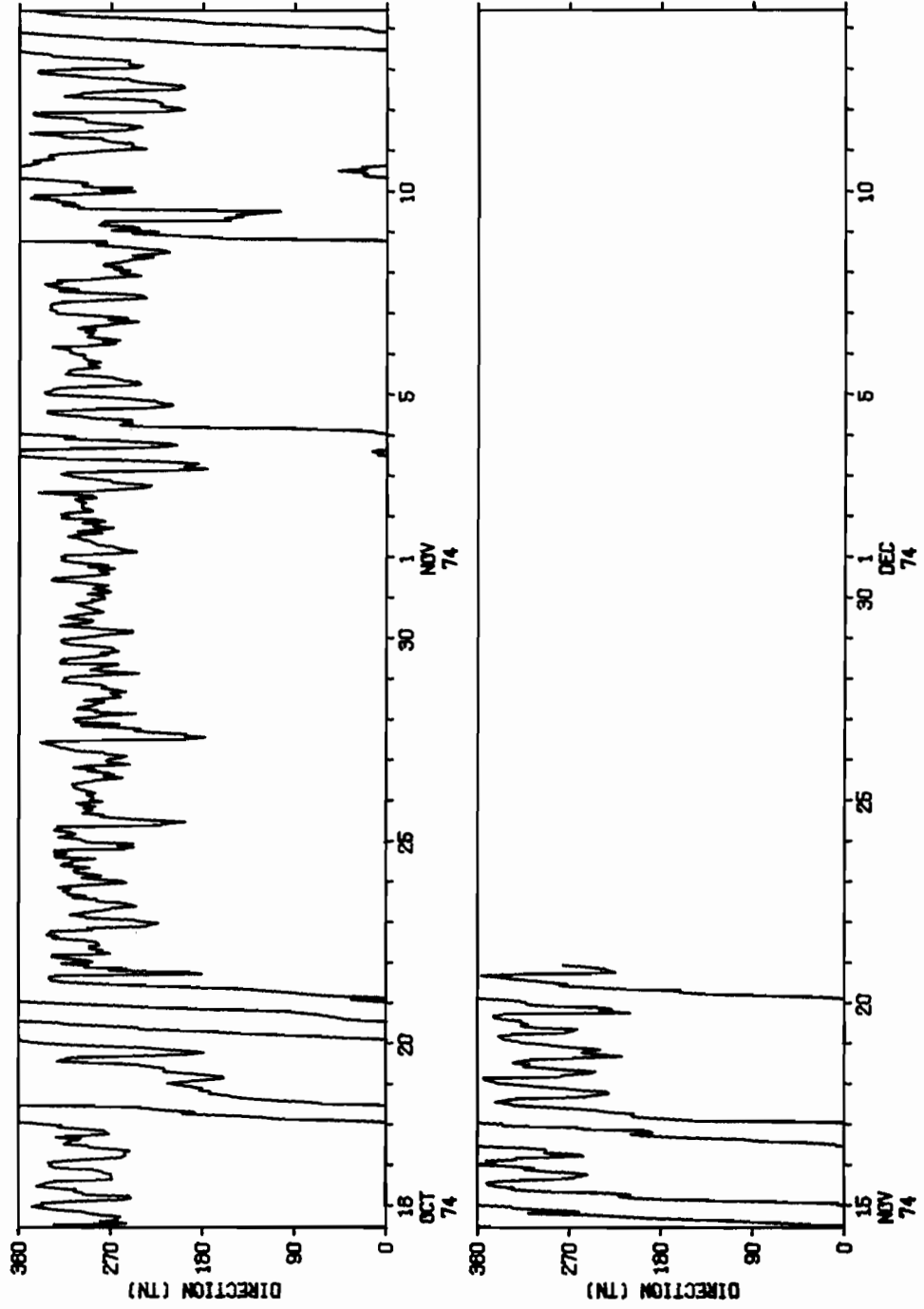
HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 100.0 METERS.





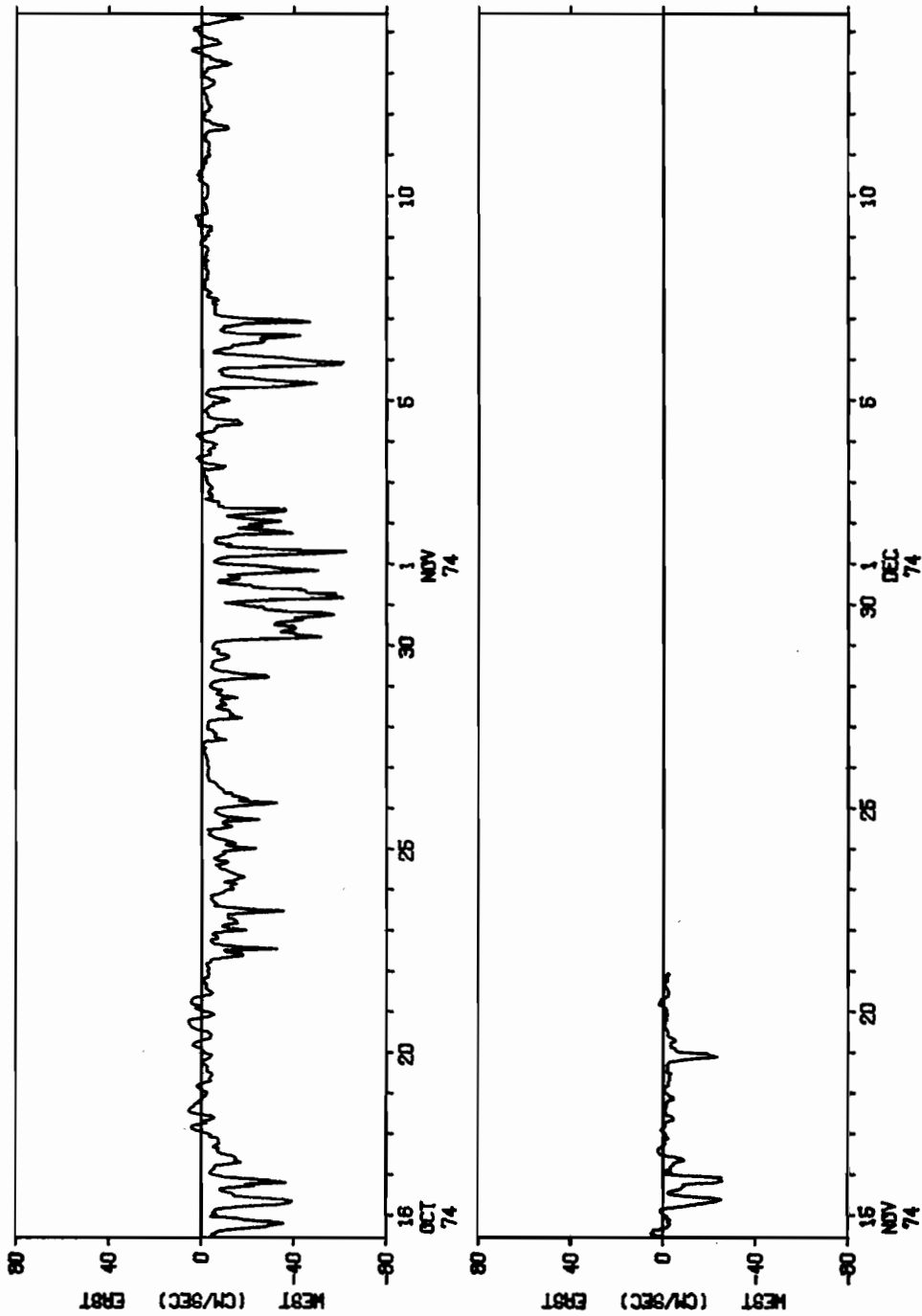
B.4. TIME SERIES ANALYSIS Current Meter 603 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 100.0 METERS.



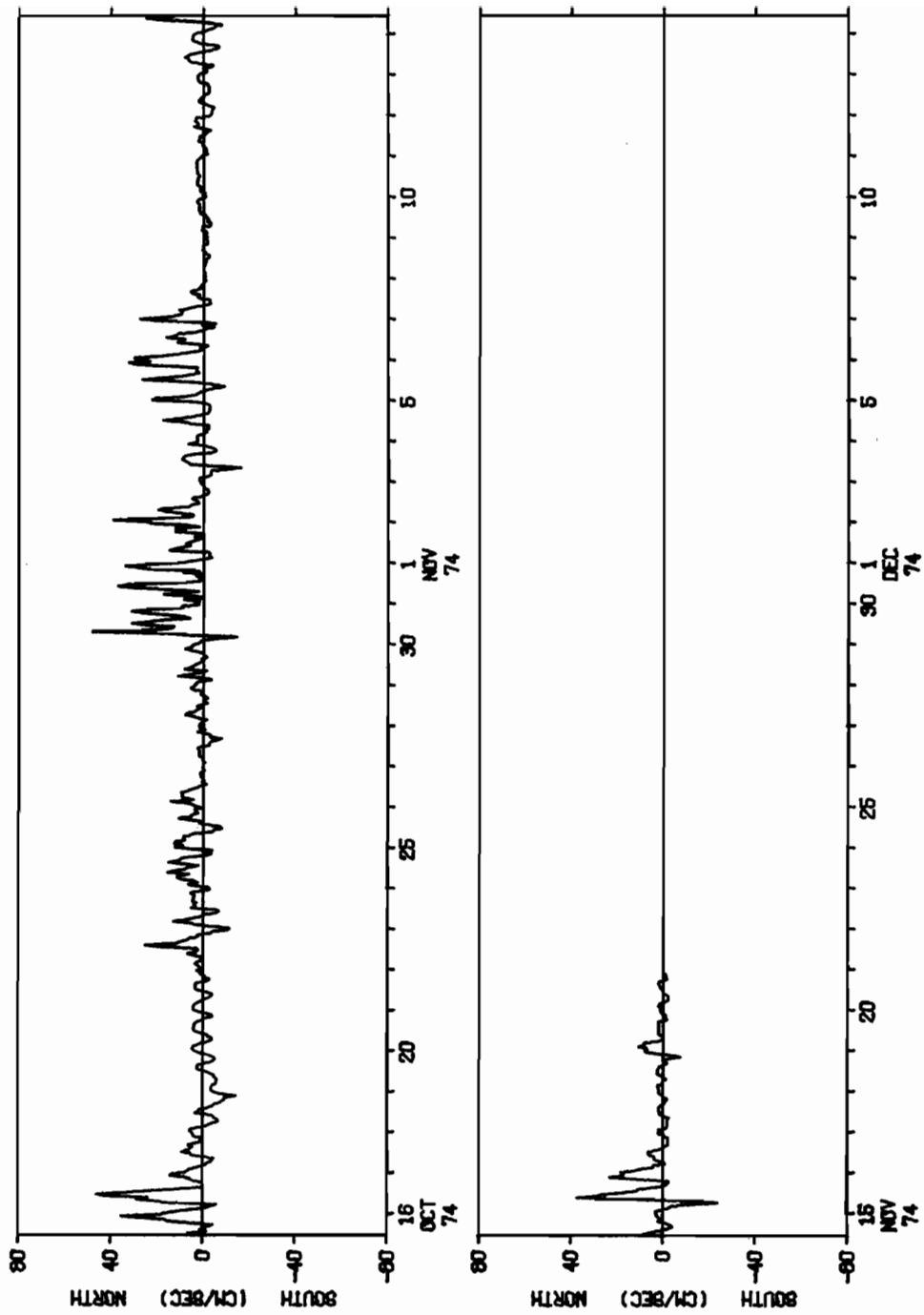
B.4. TIME SERIES ANALYSIS Current Meter 603 Part 2 Of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.



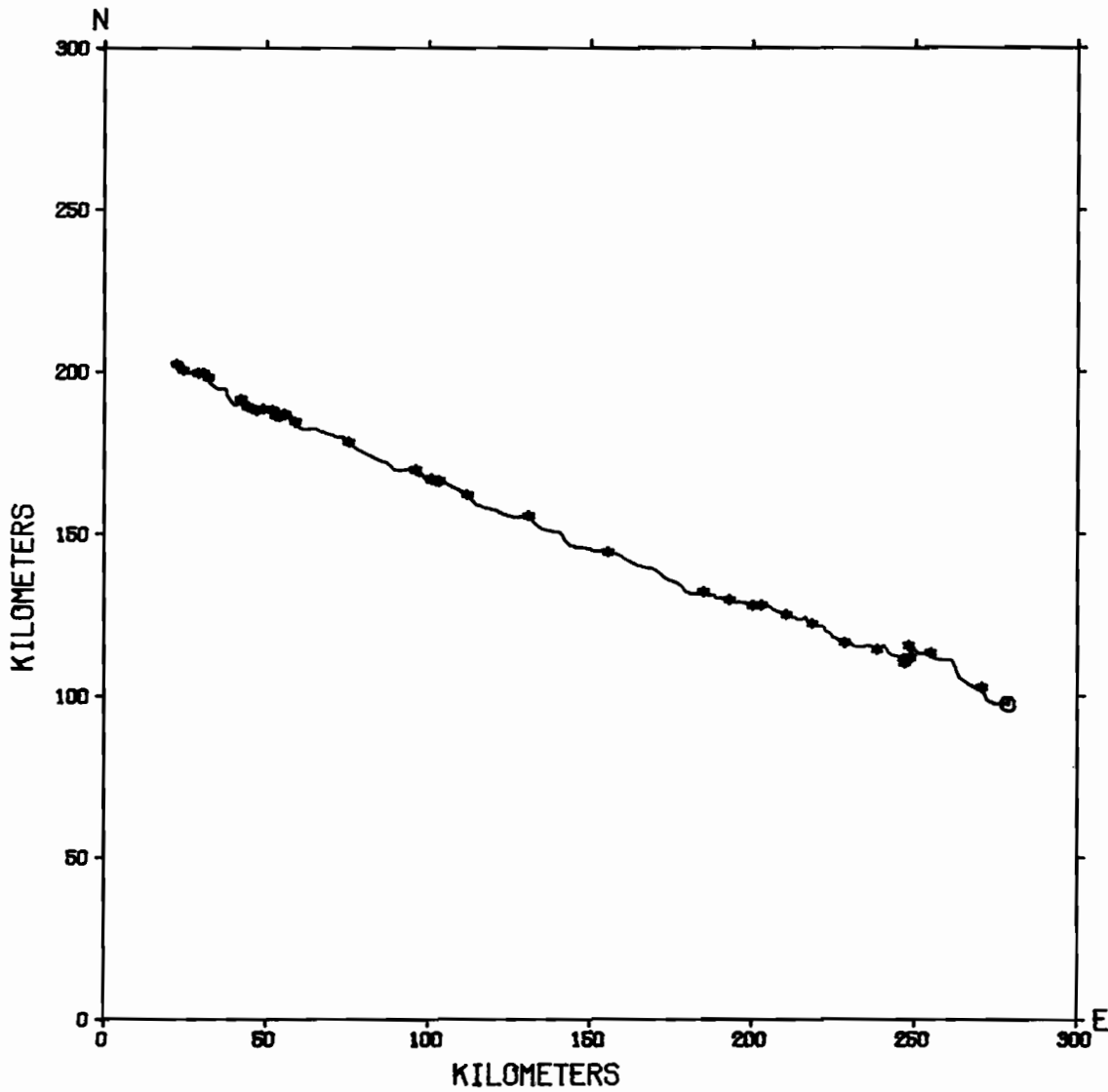
B.4. TIME SERIES ANALYSIS Current Meter 603 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.

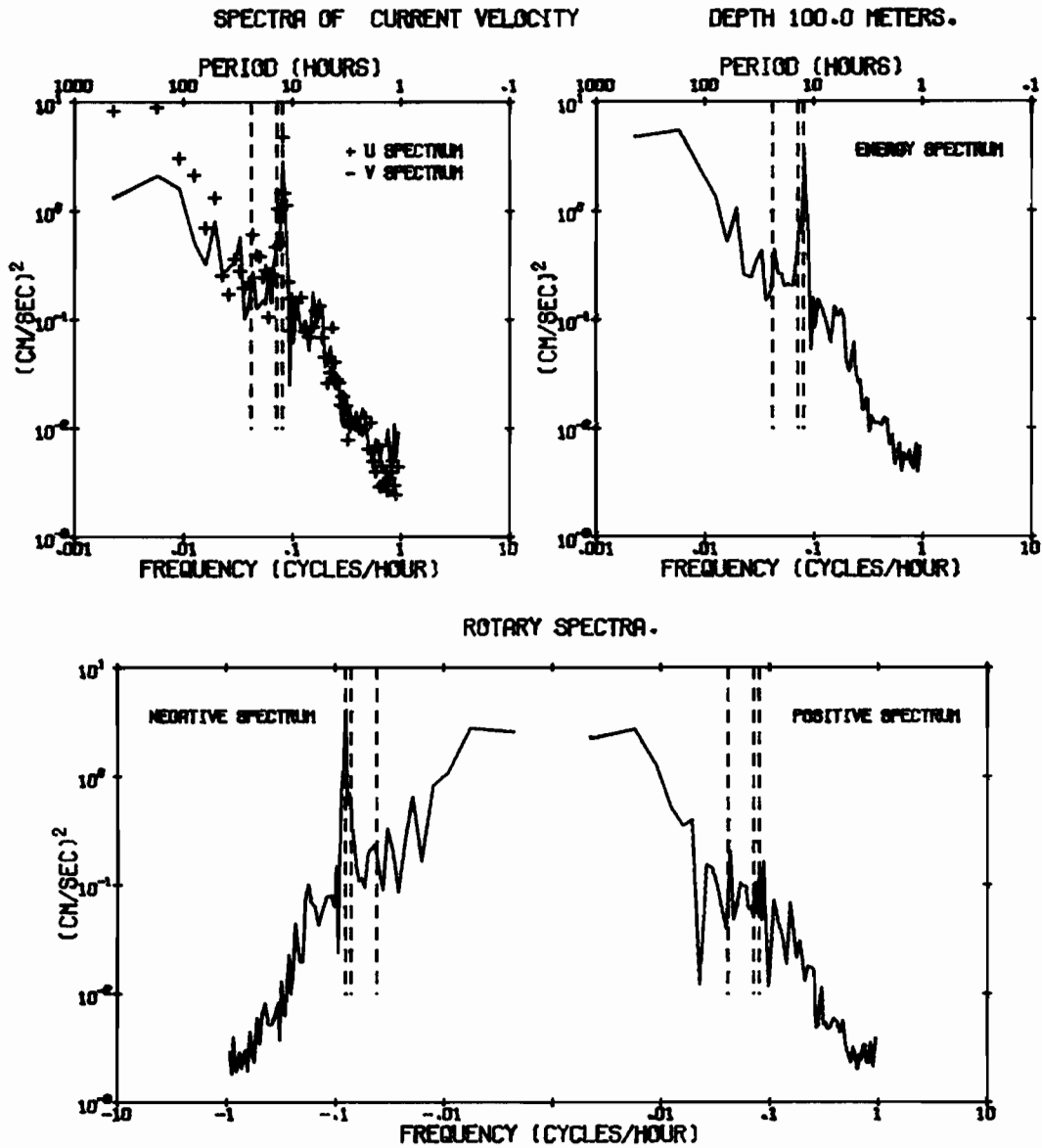


B.4. TIME SERIES ANALYSIS Current Meter 603  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 61  
OBSERVATION PERIOD 36.5 DAYS FROM 1036 GMT 15 OCT 74.  
DEPTH 100.0 METERS.



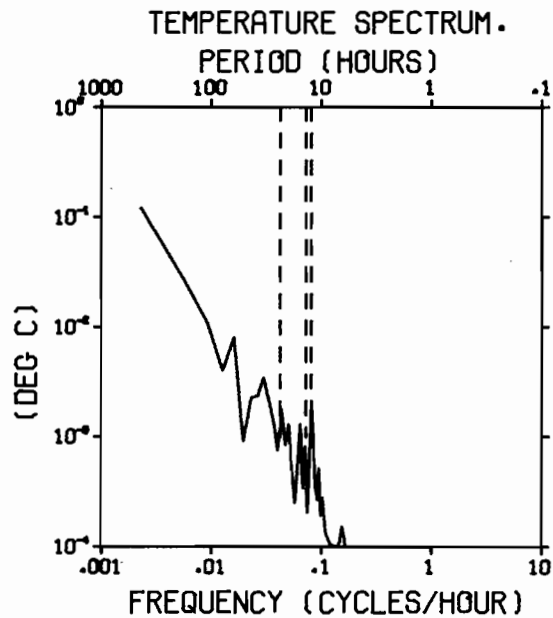
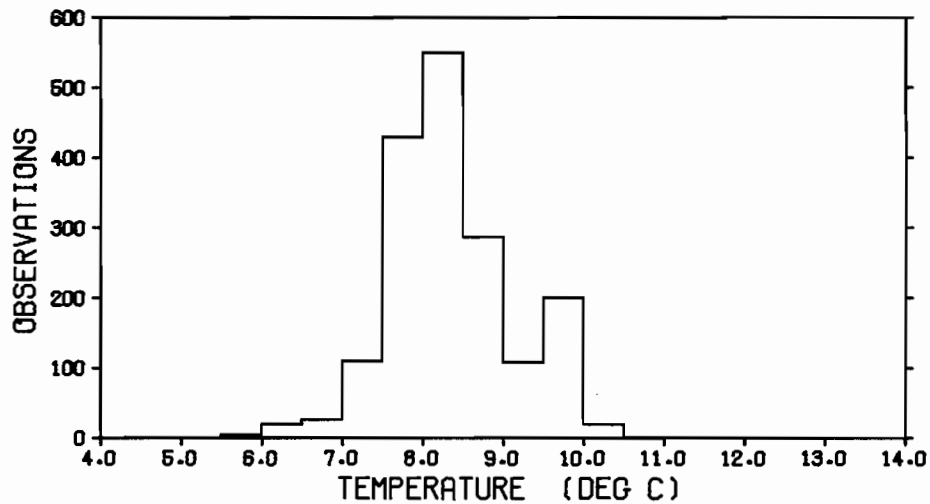
B.4. TIME SERIES ANALYSIS Current Meter 604  
 Part 2 of 2 (Continued)



B.4. TIME SERIES ANALYSIS Current Meter 603  
Part 2 of 2 (Continued)

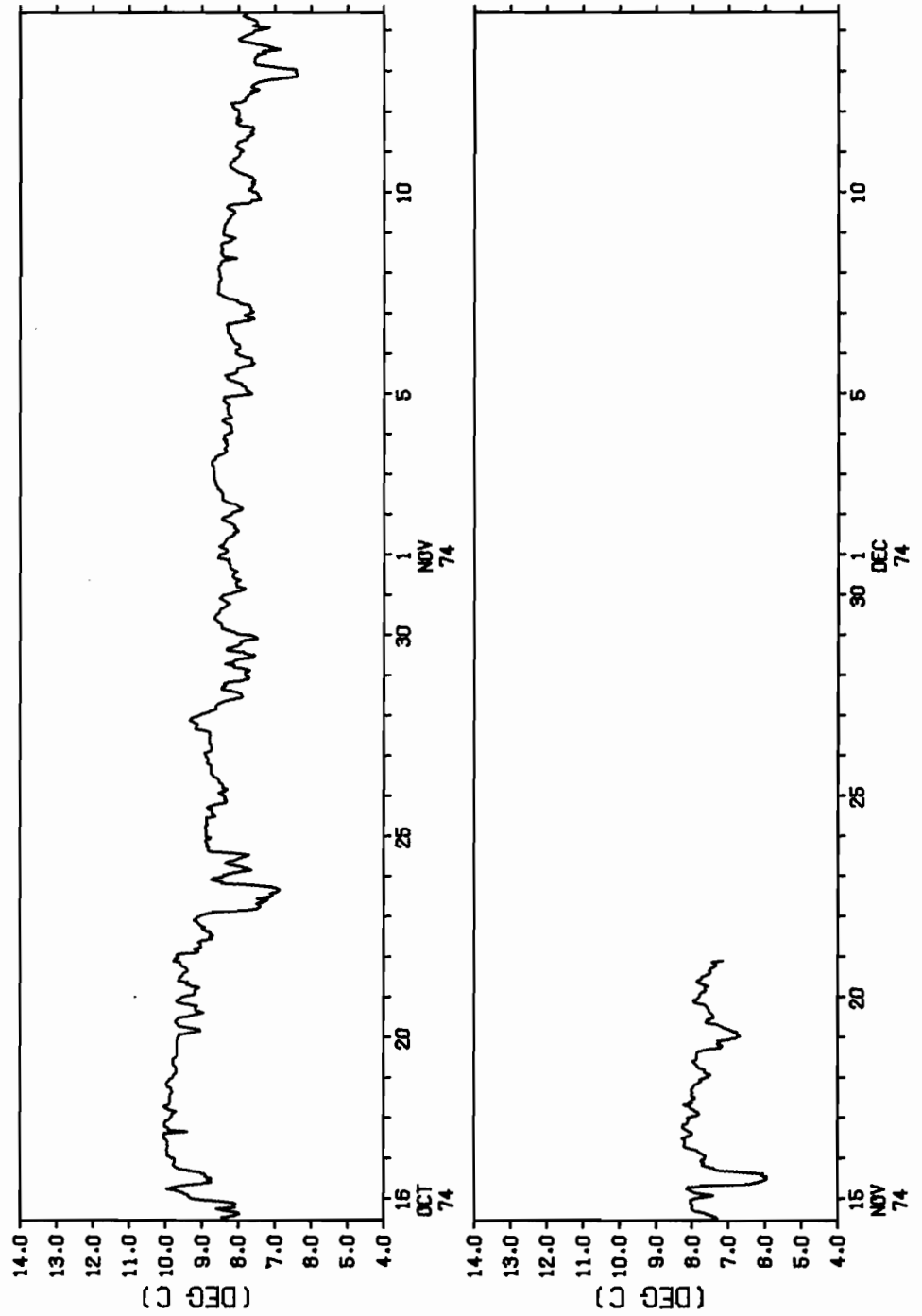
TEMPERATURE STATISTICS      LAT. 59 34.2N      LONG. 145 47.7W  
DEPTH 100.0 METERS              NUMBER OF OBSERVATIONS = 1753  
OBSERVATION PERIOD 36.5 DAYS FROM 1036 GMT 15 OCT 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
8.35	.60	.78	.25	3.10	10.09	5.94



B.4. TIME SERIES ANALYSIS Current Meter 603 Part 2 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 100.0 METERS.

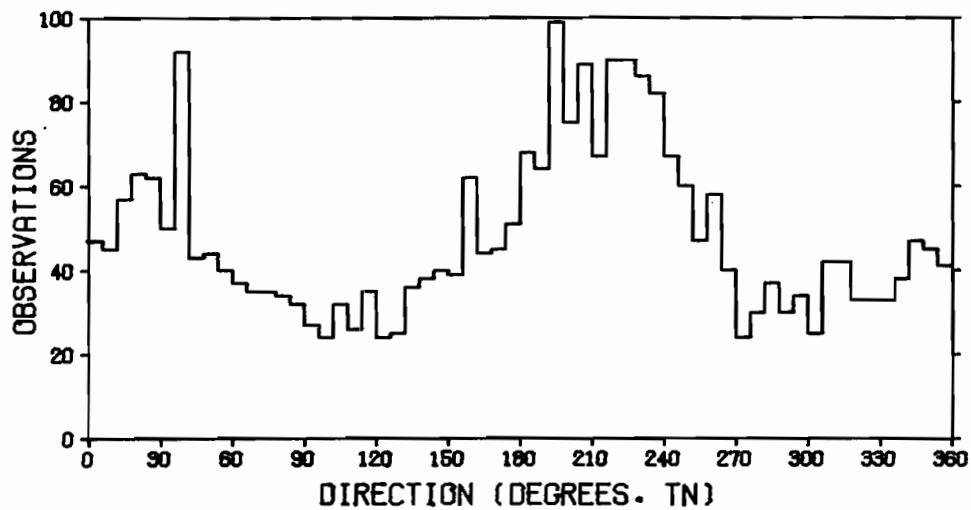
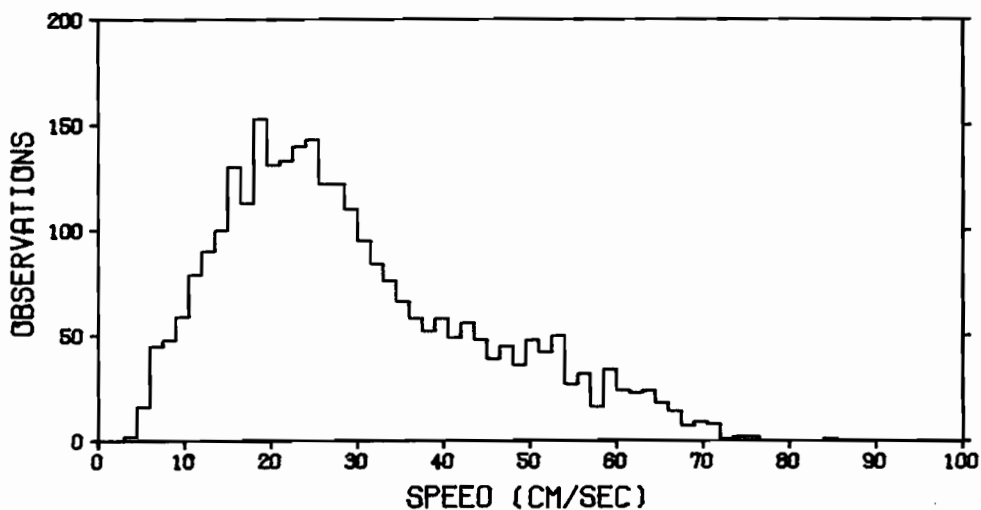


B.5. TIME SERIES ANALYSIS Current Meter 602 Nominal Depth: 162m  
 Part 1 of 2; 16 August - 15 October 1974

Mooring Designation NEG0A 61  
 Location: 59° 34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	29.54	225.56	15.02	.747	2.86	85.41	3.41
U	-7.19	438.17	20.93	-.499	2.46	42.88	-78.64
V	-6.87	561.09	23.69	-.302	2.16	53.01	-73.64

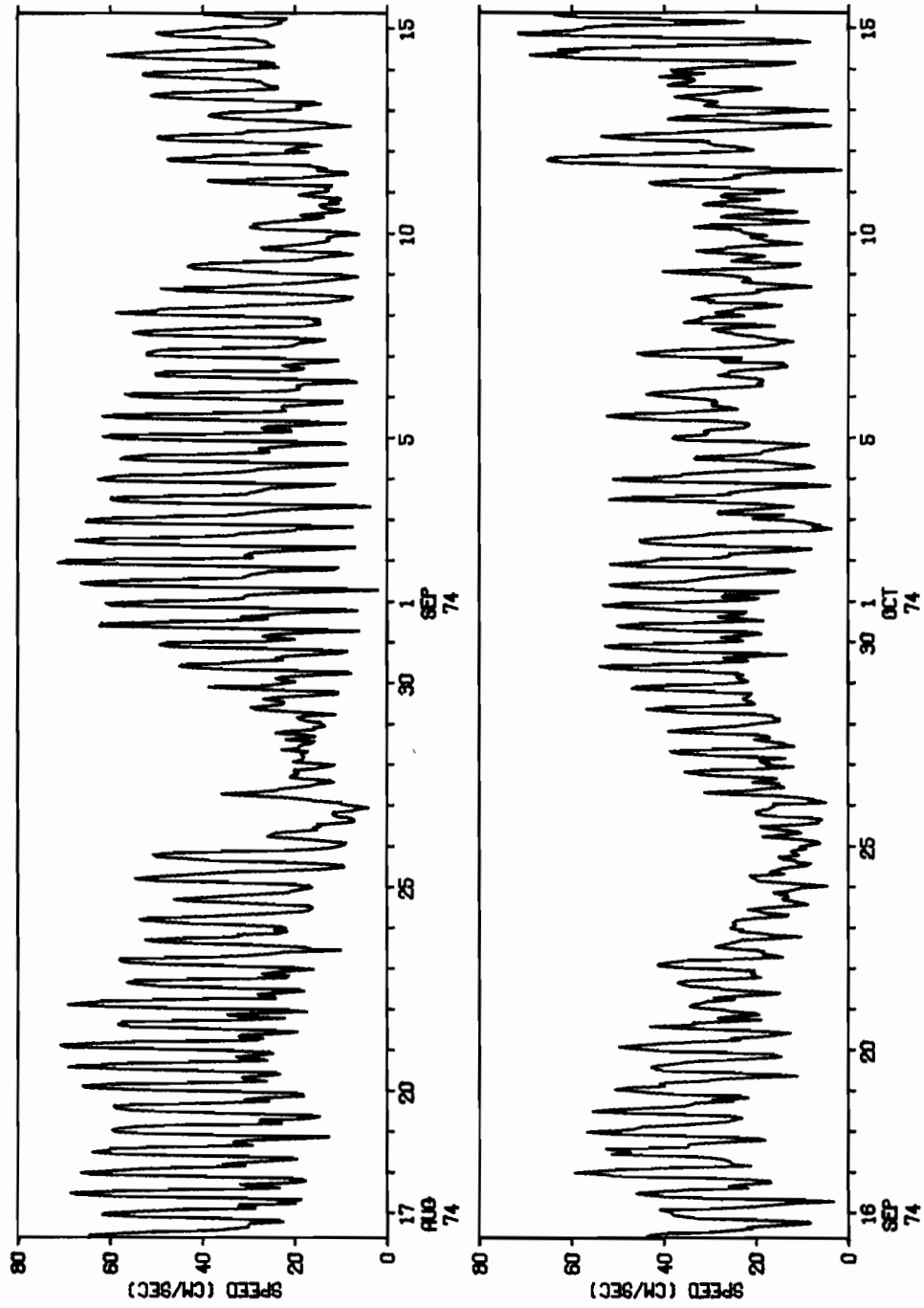
S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V





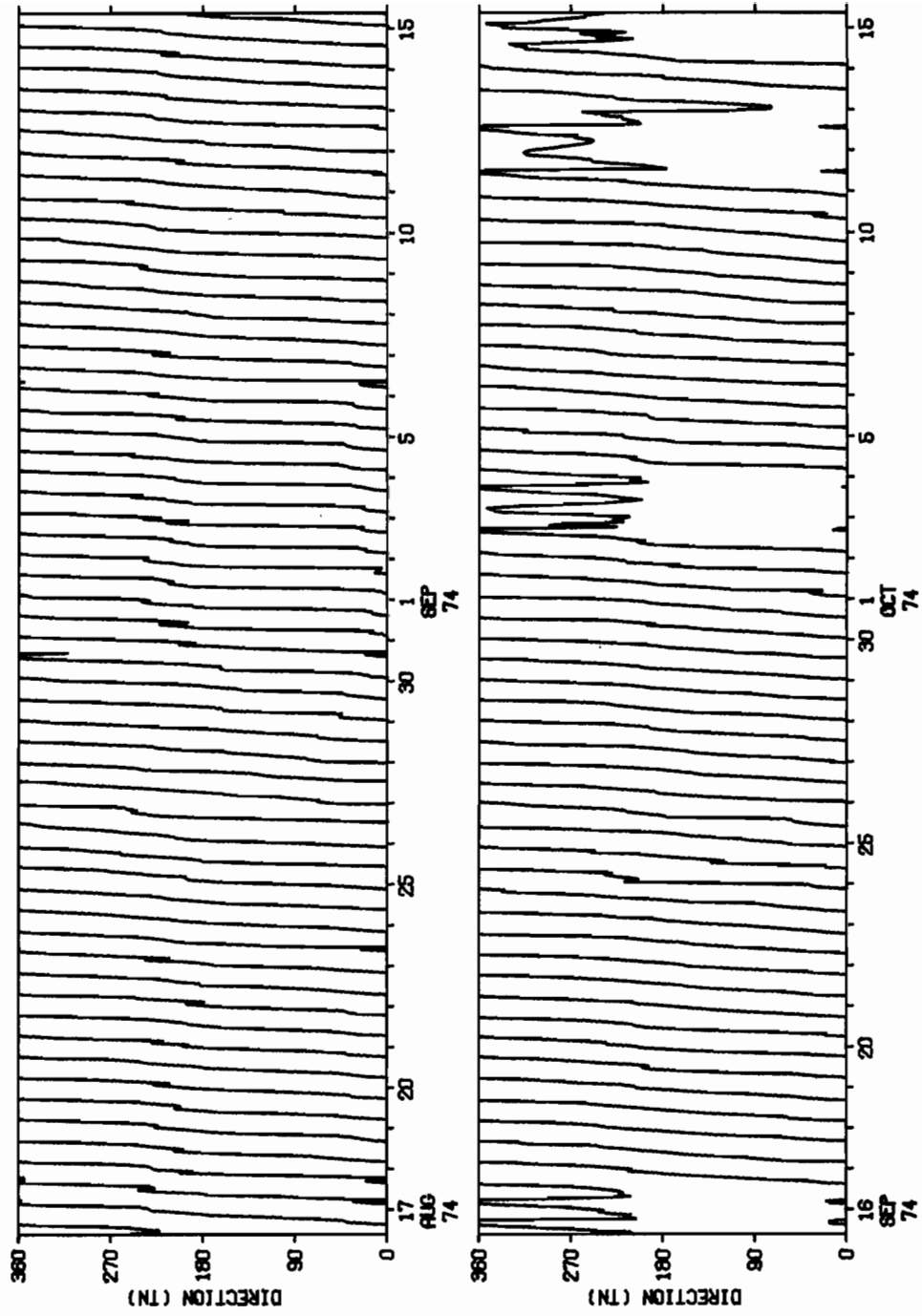
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 162.0 METERS.



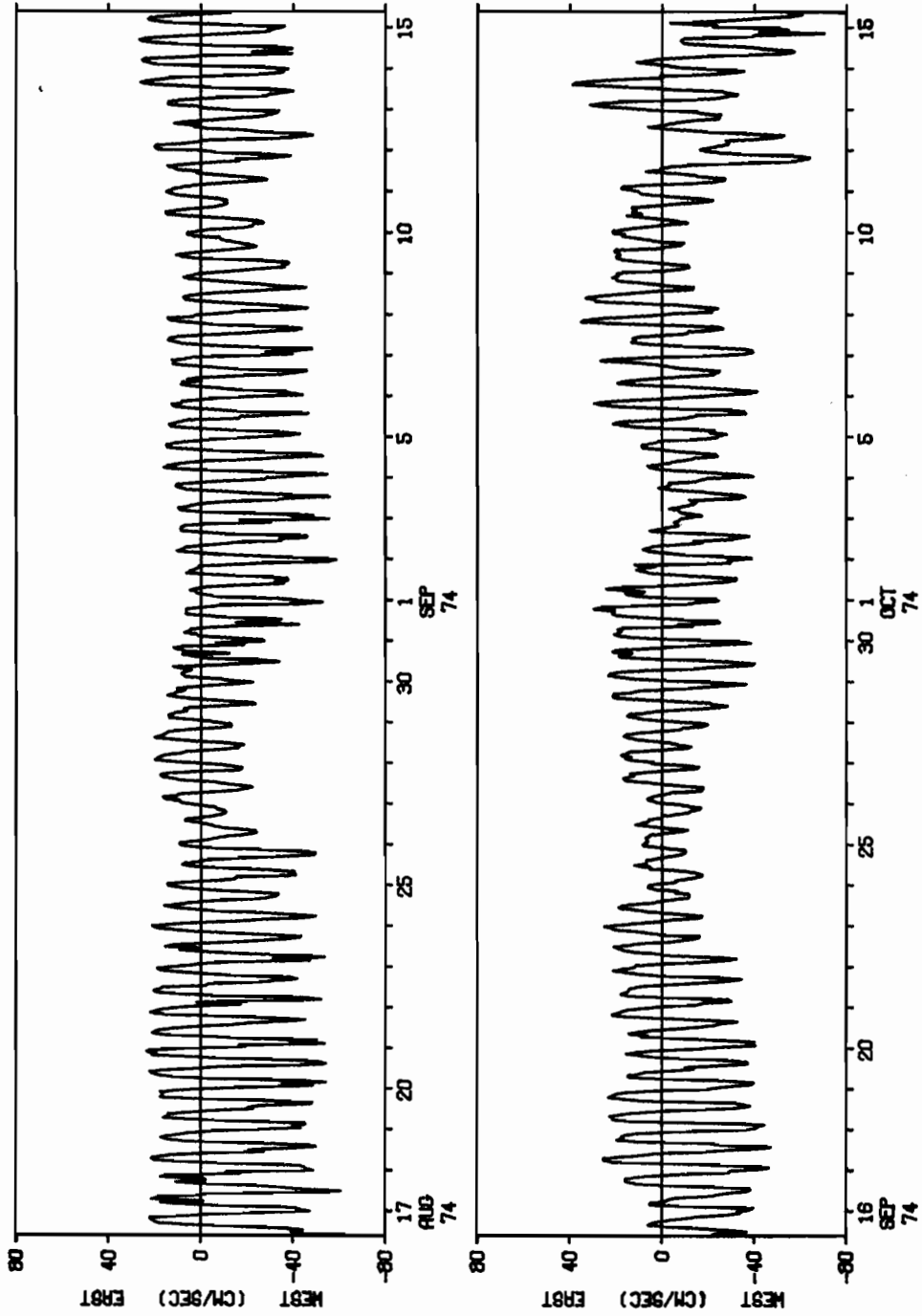
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 162.0 METERS.



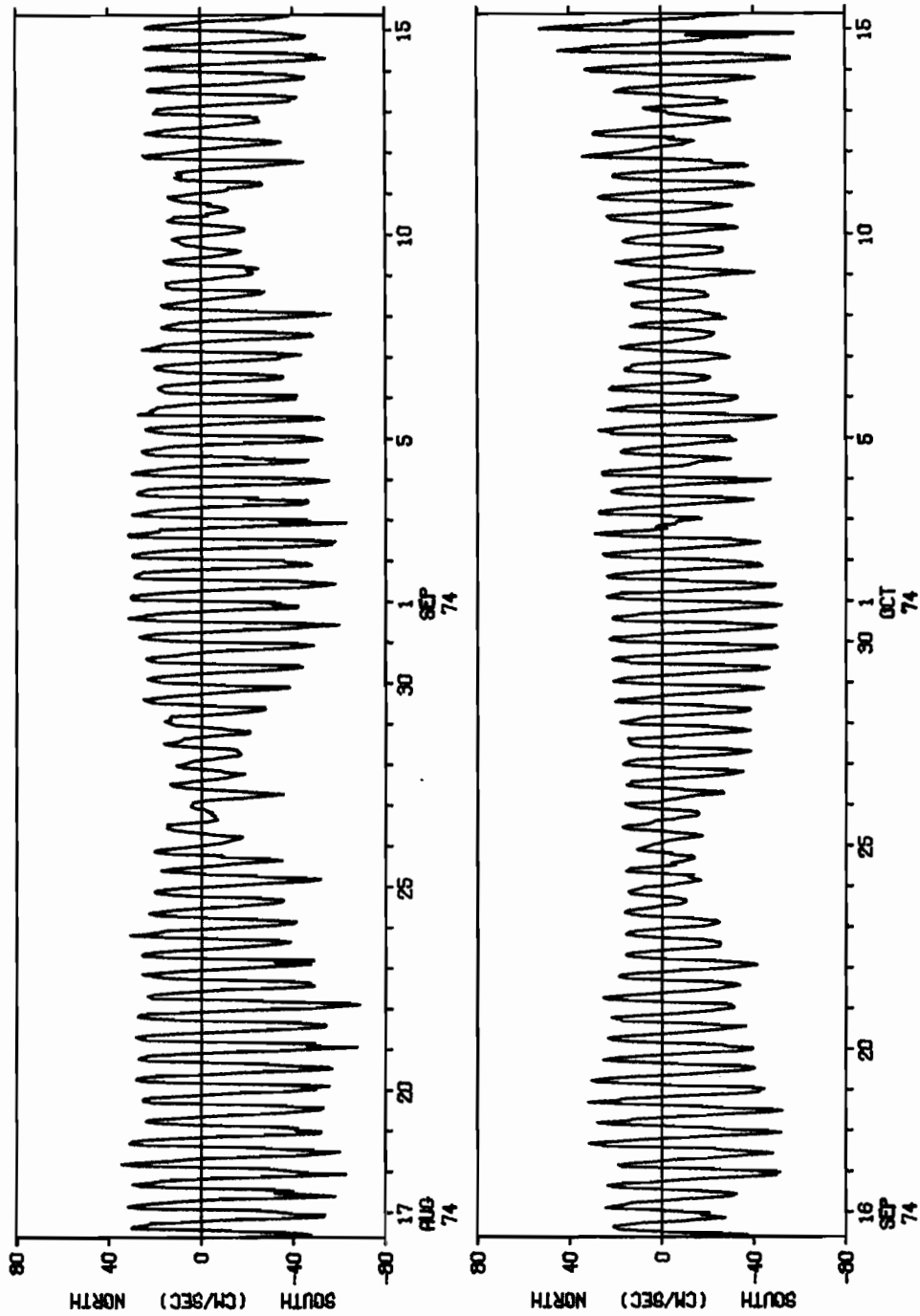
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 162.0 METERS.



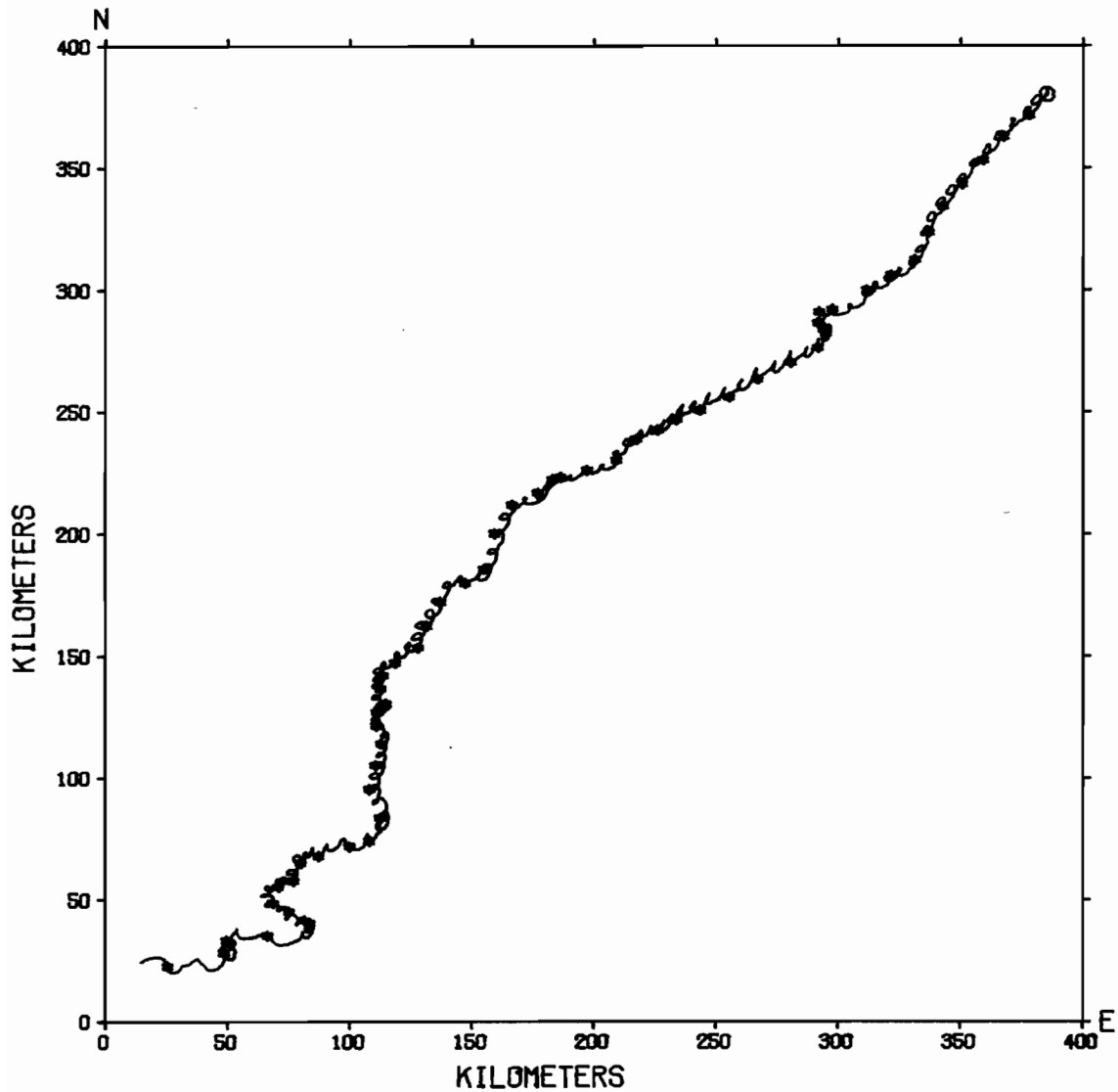
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 1 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 162.0 METERS.

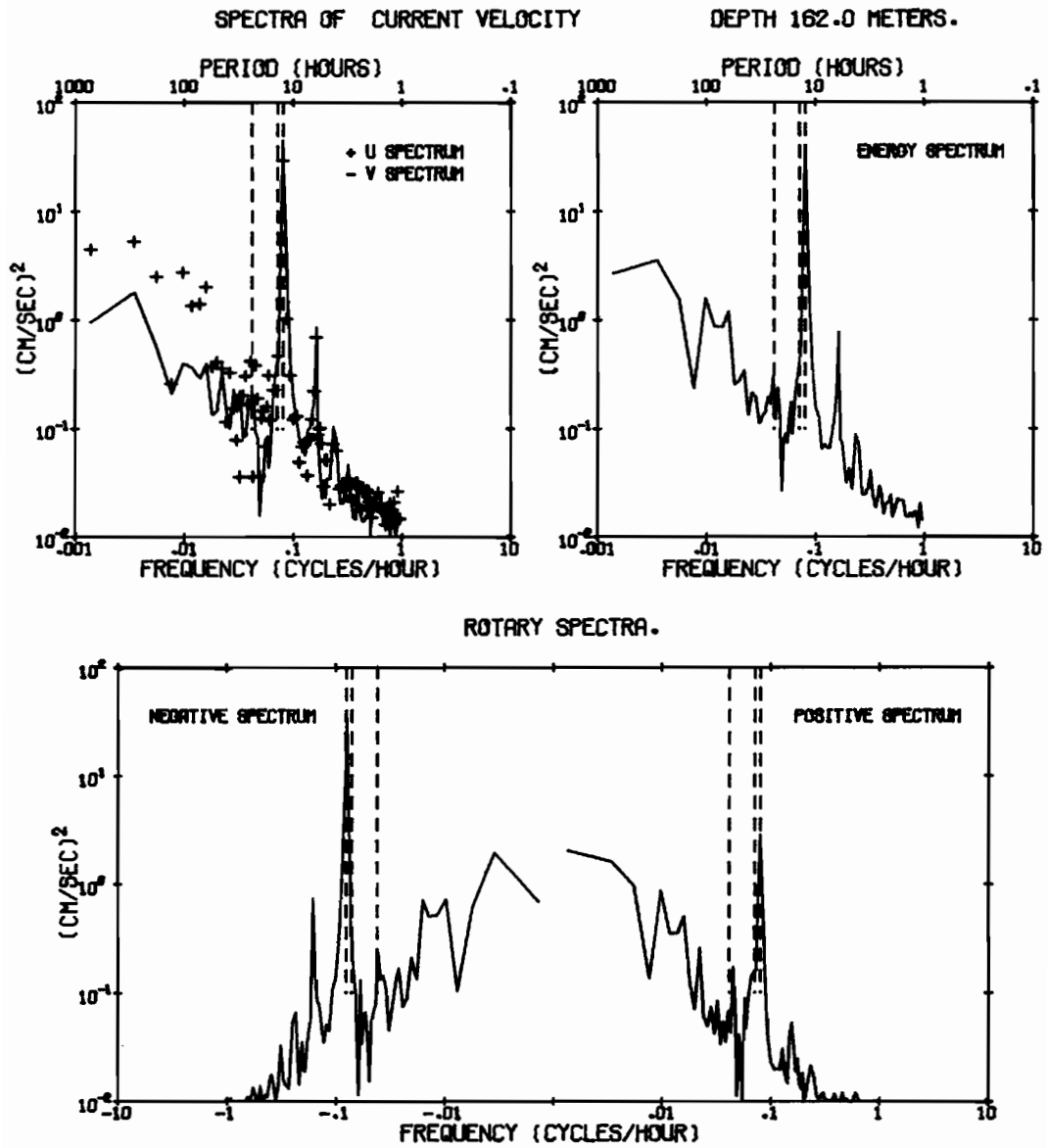


B.5. TIME SERIES ANALYSIS Current Meter 602  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEG0A - 61  
OBSERVATION PERIOD 60.0 DAYS FROM 0908 GMT 16 AUG 74.  
DEPTH 162.0 METERS.



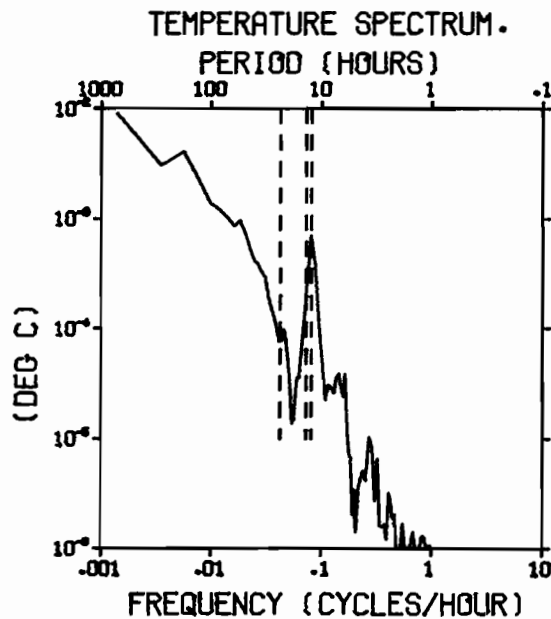
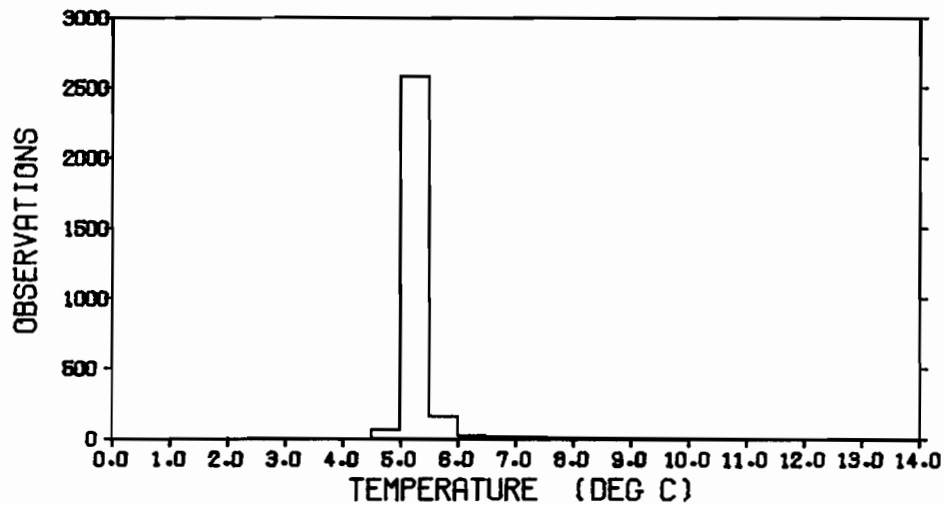
B.5. TIME SERIES ANALYSIS Current Meter 602  
Part 1 of 2 (Continued)



B.5. TIME SERIES ANALYSIS Current Meter 602  
 Part 1 of 2 (Continued)

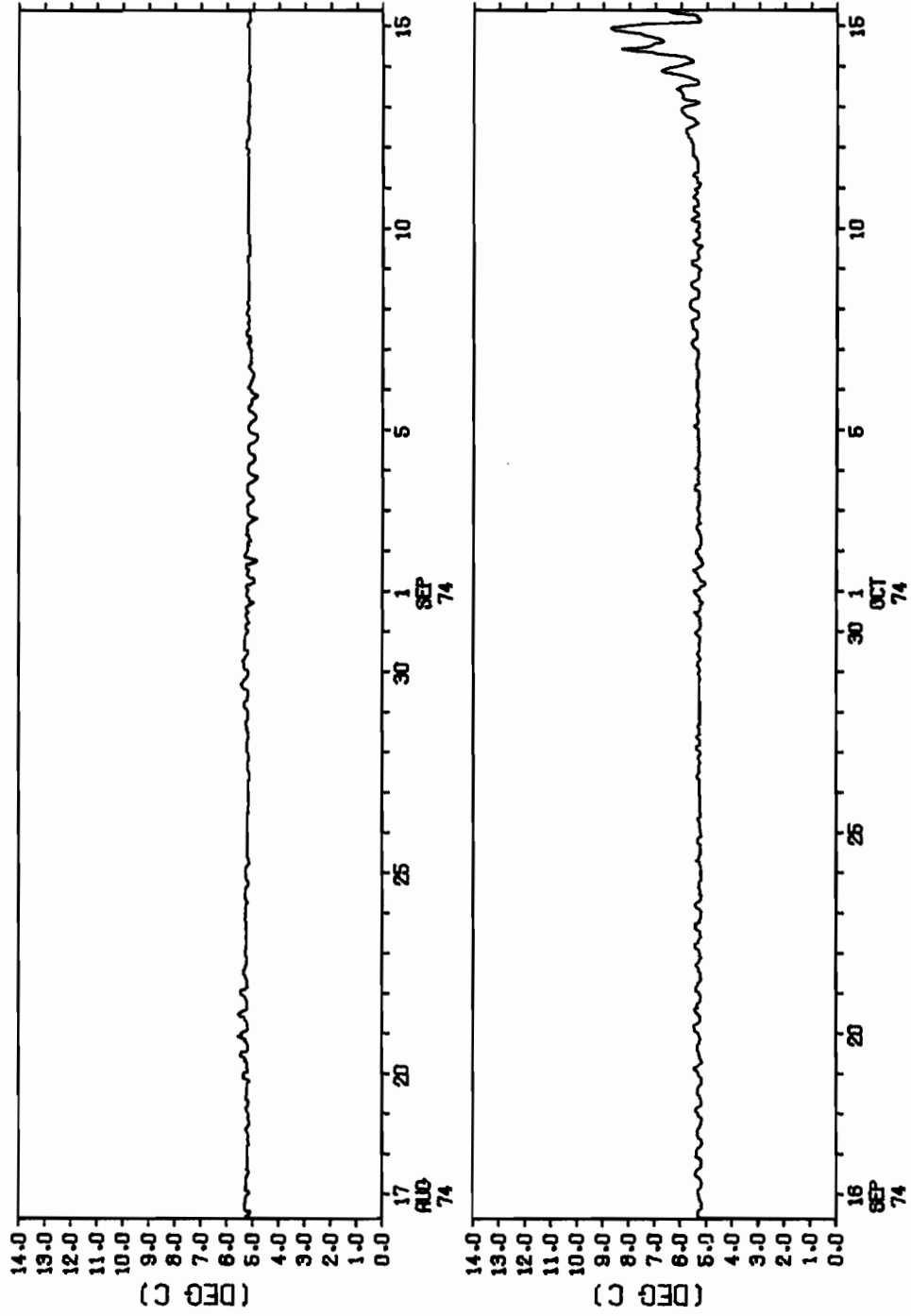
TEMPERATURE STATISTICS      LAT. 59 34.2N    LONG. 145 47.7W  
 DEPTH 162.0 METERS            NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0908 GMT 16 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
5.30	.10	.32	6.08	50.99	8.74	4.78



B.5. TIME SERIES ANALYSIS Current Meter 602 Part 1 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 162.0 METERS.



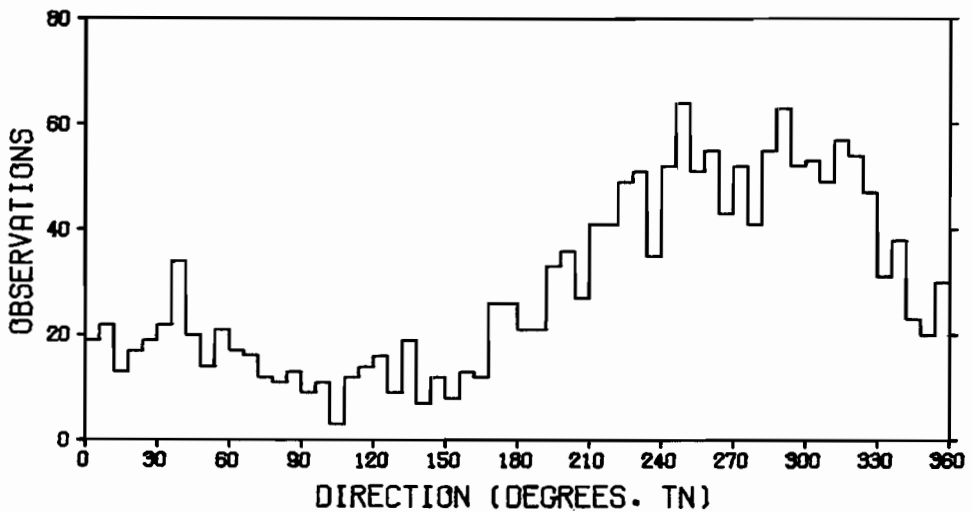
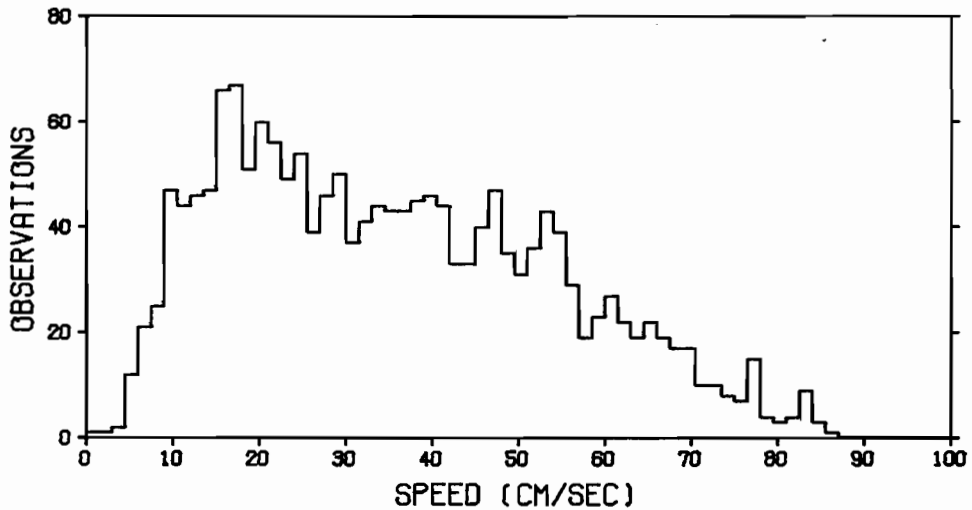


B.5. TIME SERIES ANALYSIS Current Meter 602 Nominal Depth: 162m  
 Part 2 of 2; 16 October - 21 November 1974

Mooring designation NEGOA 61  
 Location: 59° 34.2'N 145° 47.7'W  
 Sensors: Speed, Direction, Temperature

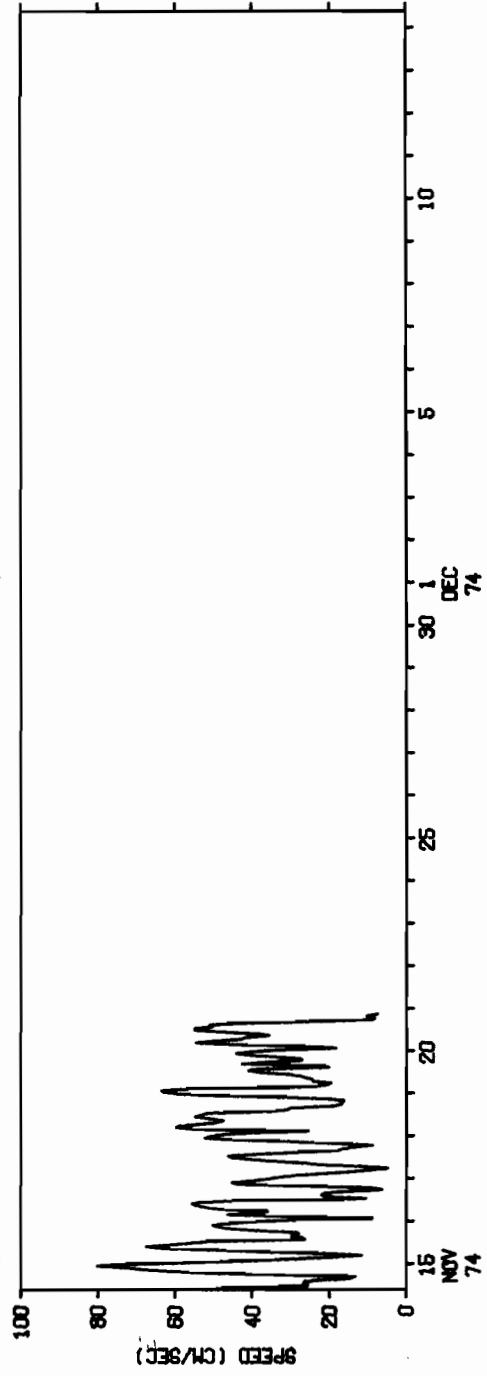
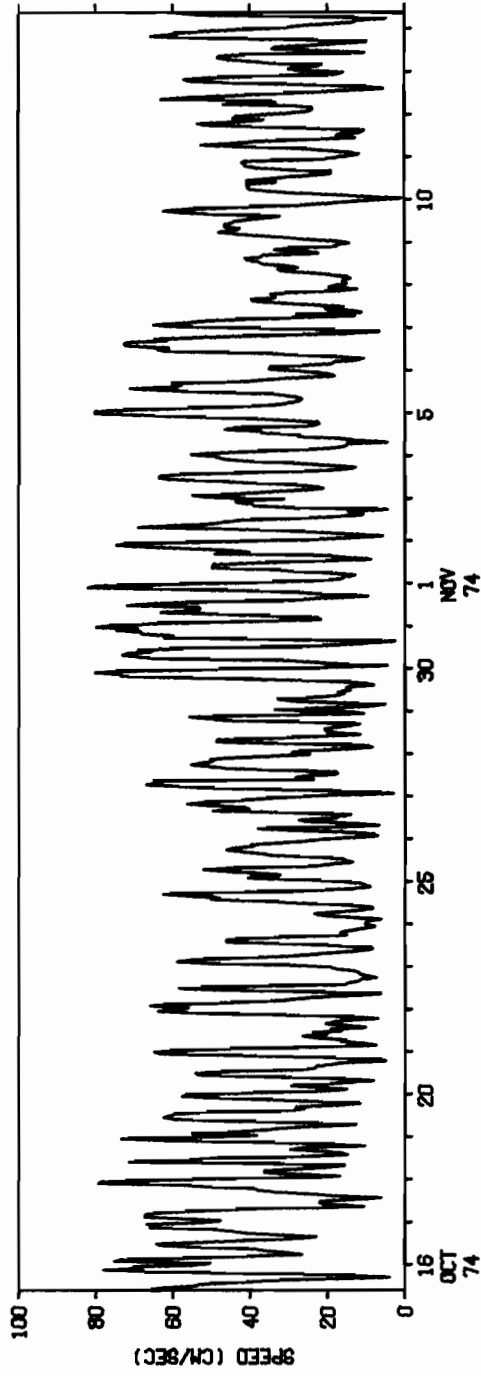
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	35.61	354.25	18.82	.438	2.31	86.10	.27
U	-18.05	663.90	25.77	-.106	2.38	44.91	-84.36
V	-.96	631.42	25.13	-.412	2.97	67.18	-84.80

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



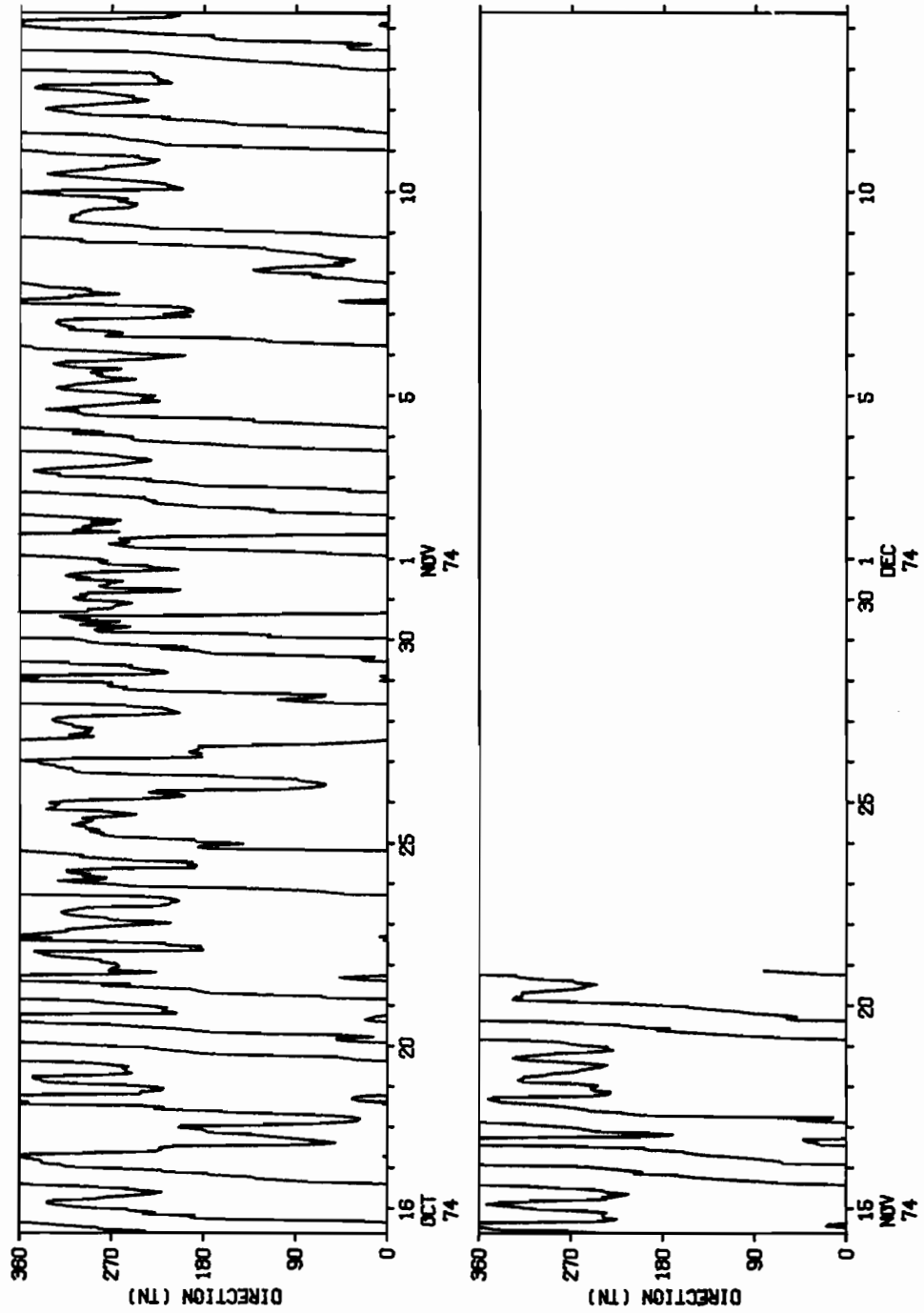
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 162.0 METERS.



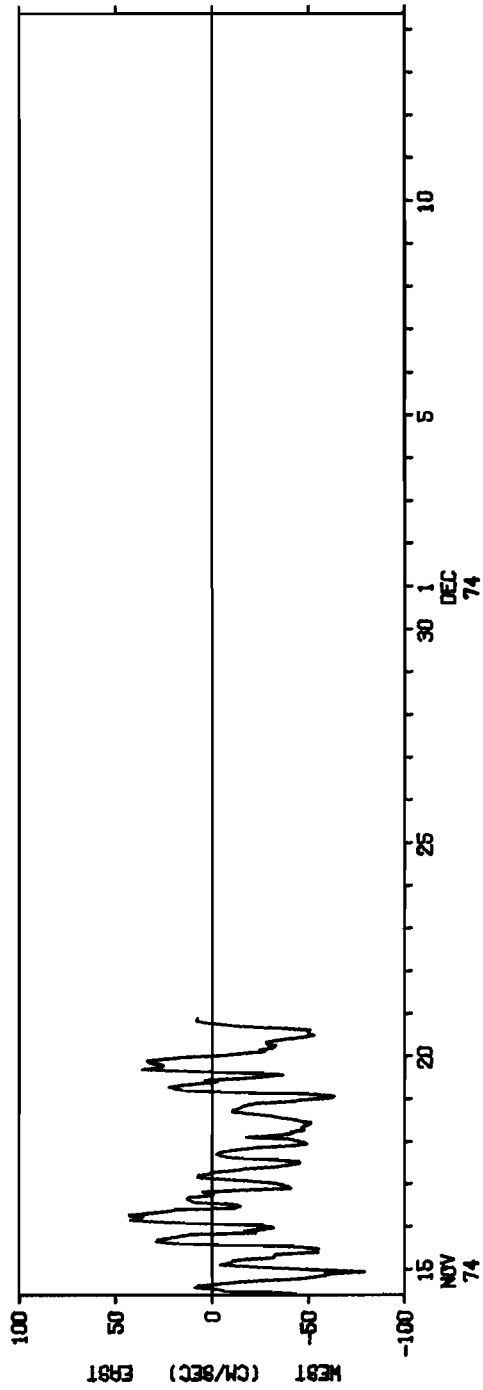
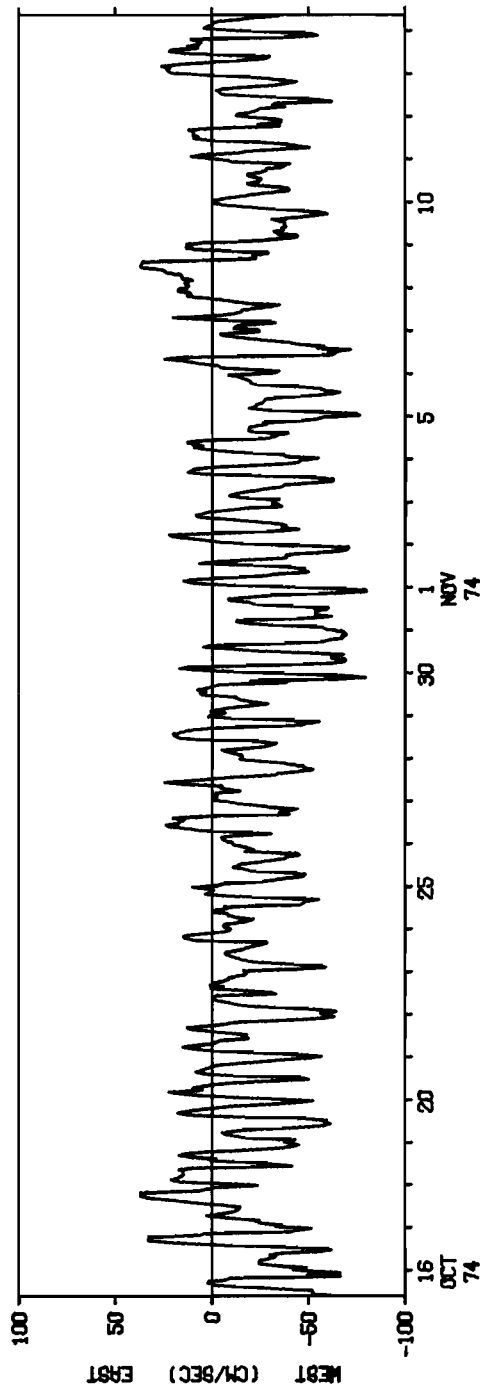
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 162.0 METERS.



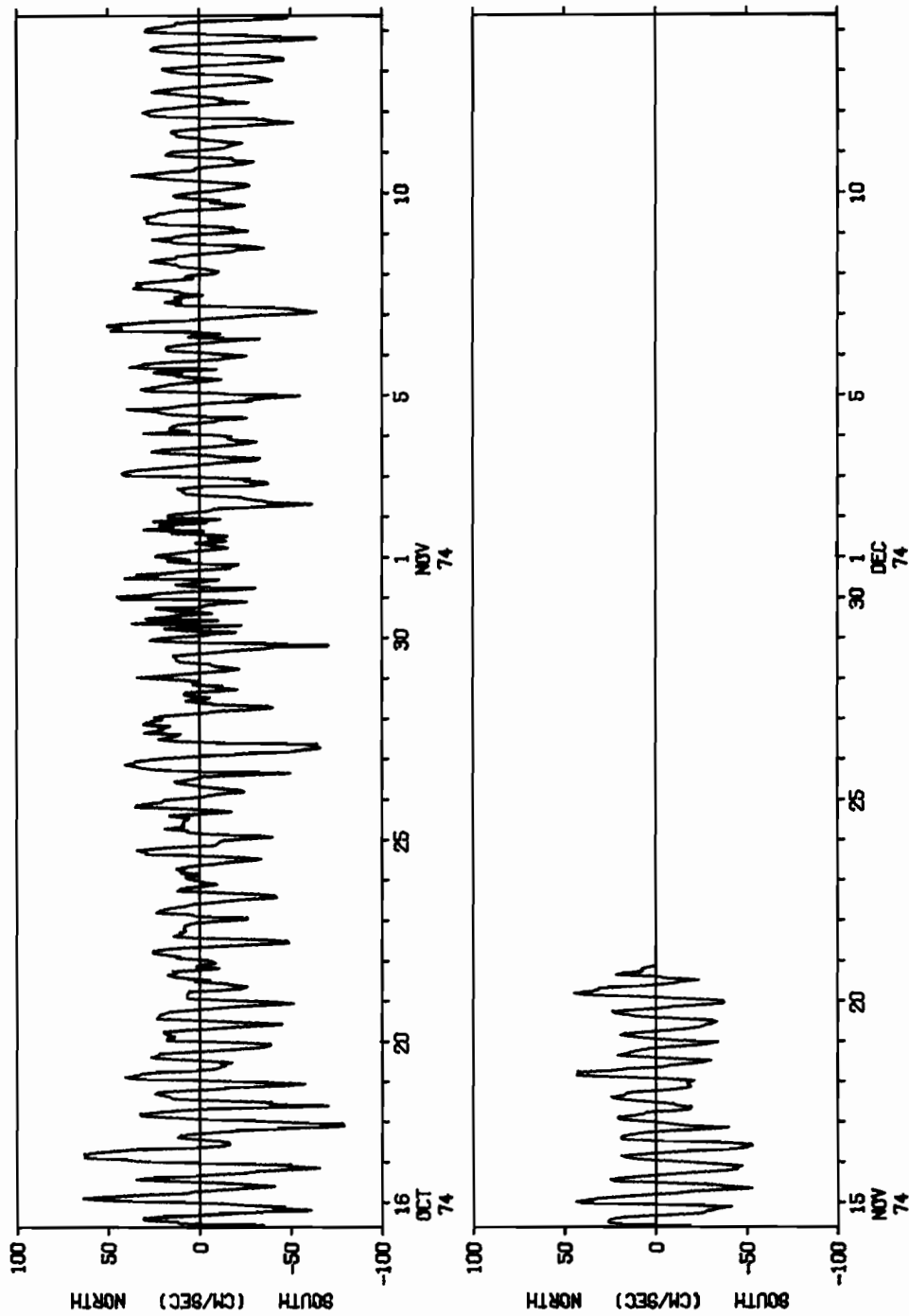
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 2 Of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 162.0 METERS.



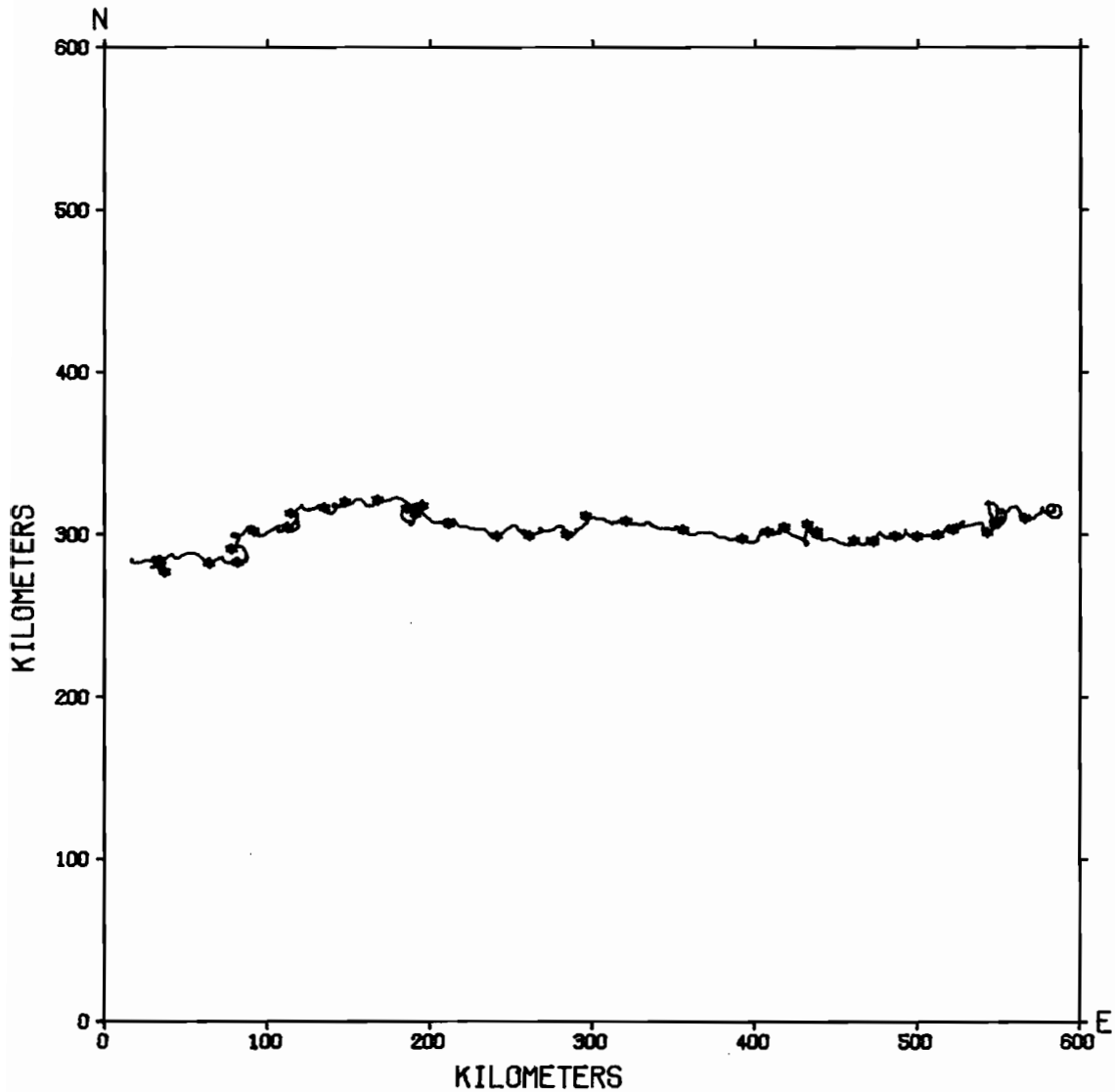
B.5. TIME SERIES ANALYSIS Current Meter 602 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 162.0 METERS.

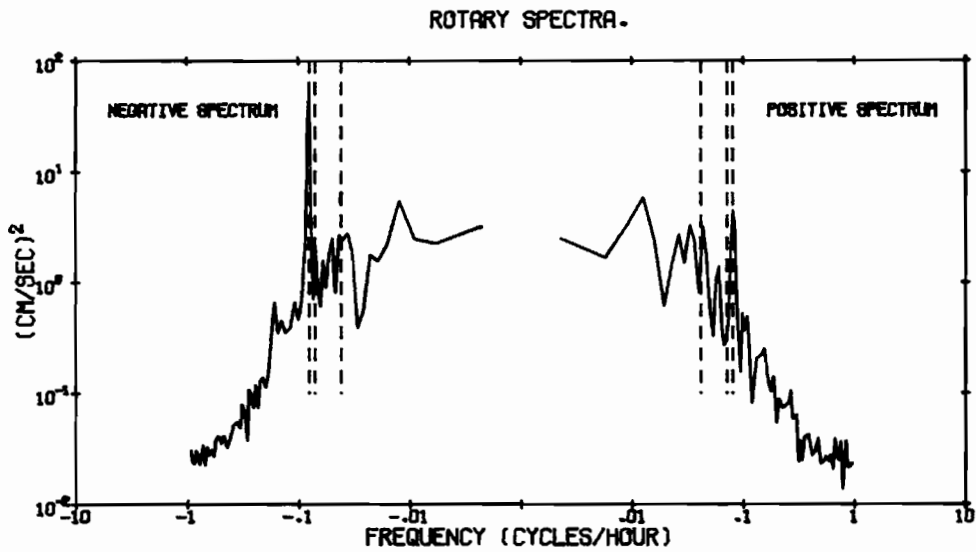
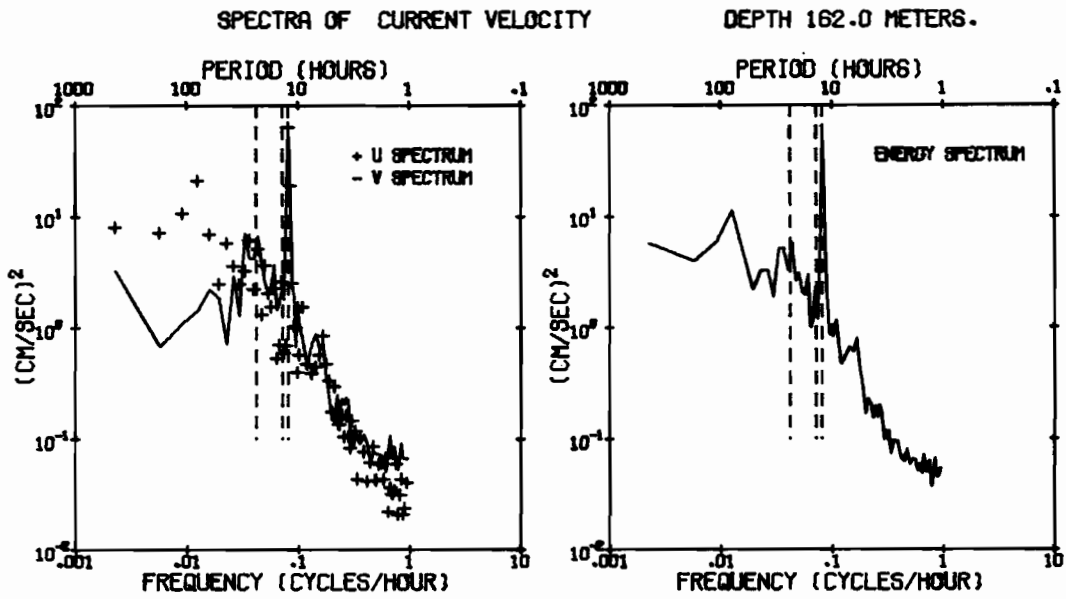


B.5. TIME SERIES ANALYSIS Current Meter 602  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGOR - 61  
OBSERVATION PERIOD 36.5 DAYS FROM 0908 GMT 15 OCT 74.  
DEPTH 162.0 METERS.



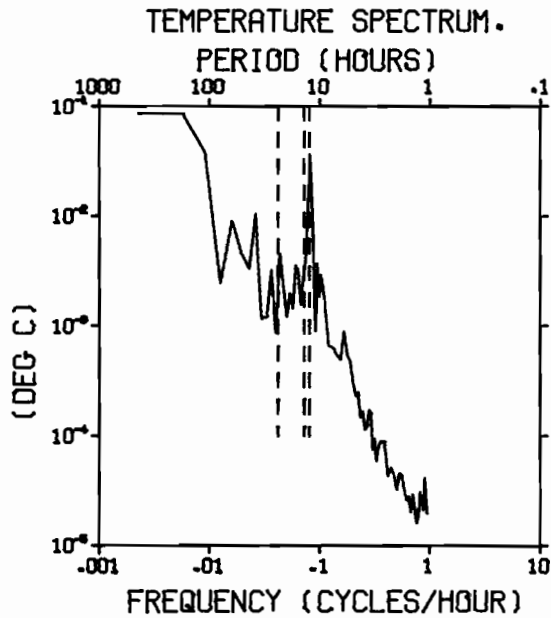
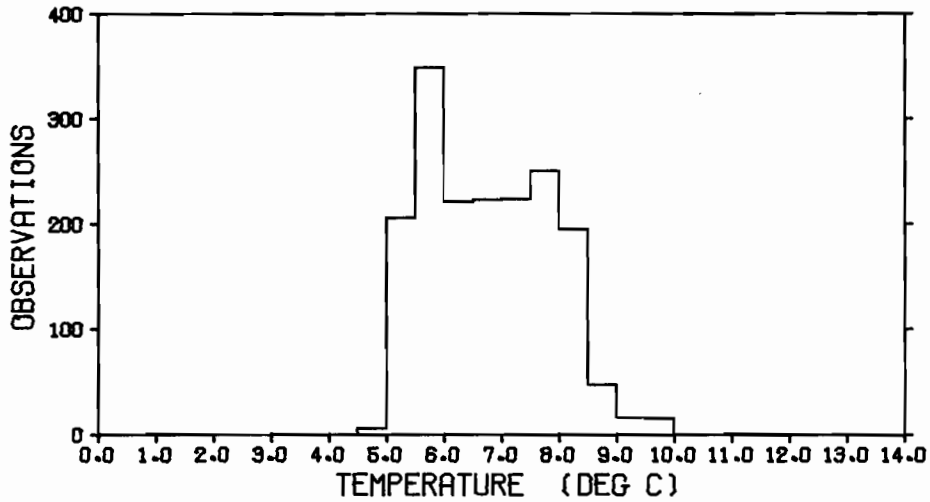
B.5. TIME SERIES ANALYSIS Current Meter 602  
Part 2 of 2 (Continued)



B.5. TIME SERIES ANALYSIS Current Meter 602  
 Part 2 of 2 (Continued)

TEMPERATURE STATISTICS      LAT. 59 34.2N    LONG. 145 47.7W  
 DEPTH 162.0 METERS            NUMBER OF OBSERVATIONS = 1752  
 OBSERVATION PERIOD 36.5 DAYS FROM 0908 GMT 15 OCT 74

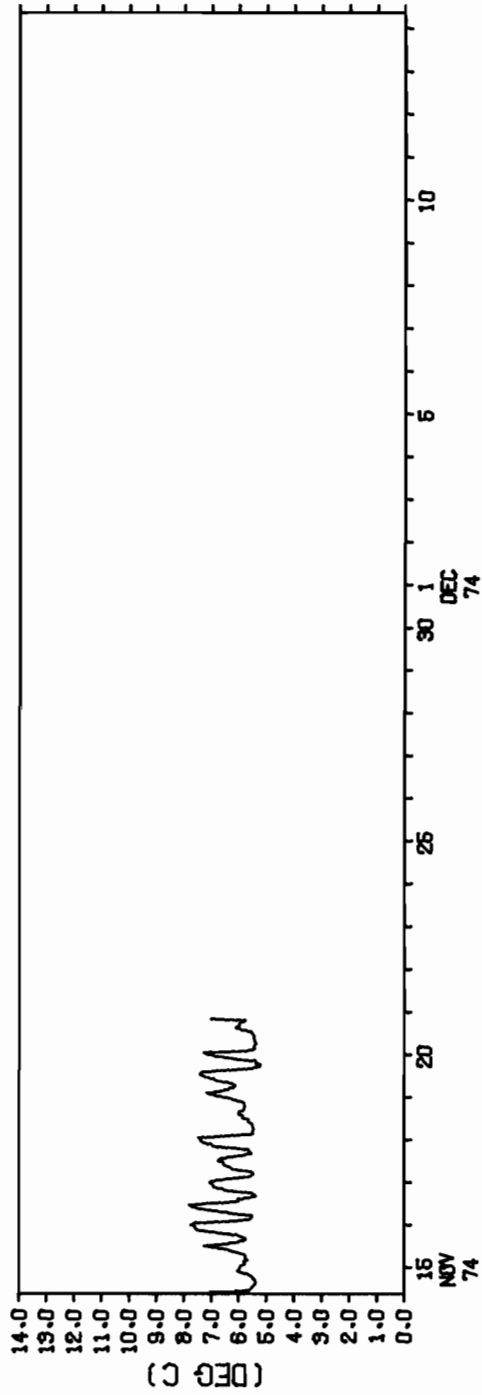
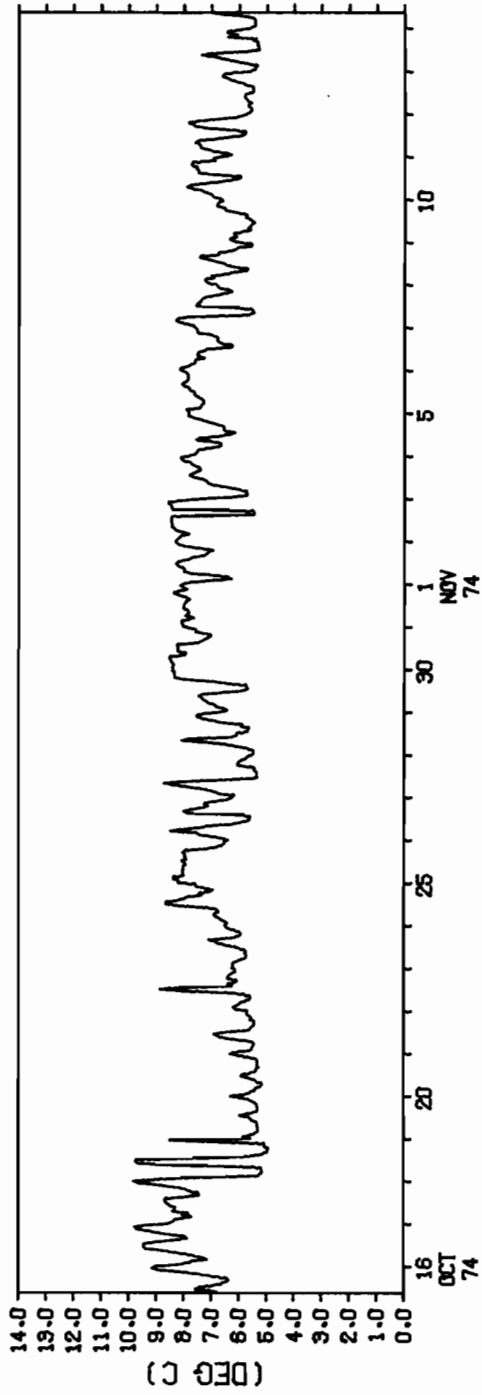
MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
6.79	1.15	1.07	.33	2.17	9.83	4.89





B.5. TIME SERIES ANALYSIS Current Meter 602 Part 2 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 162.0 METERS.





## APPENDIX C

### TIME SERIES ANALYSIS OF DATA FROM NEGOA 62A

- C.1 Current Meter 598 at 20 meters
- C.2 Current Meter 617 at 50 meters
- C.3 Current Meter 616 at 100 meters
- C.4 Current Meter 600 at 178 meters

C.1. TIME SERIES ANALYSIS Current Meter 598 Nominal Depth: 20m  
 Part 1 of 3; 17 August - 16 October 1974

Mooring Designation NEGOA 62A

Location: 59° 34.4'N 142° 10.5'W

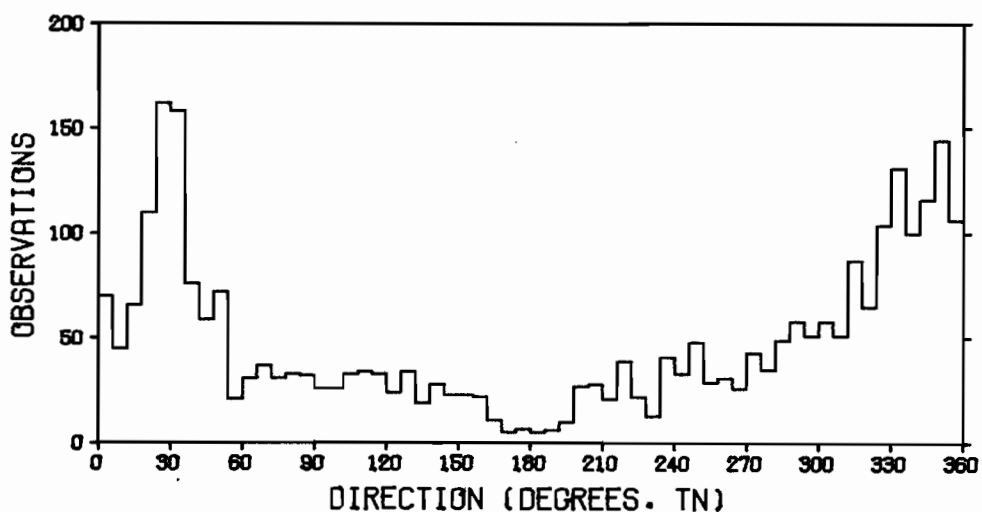
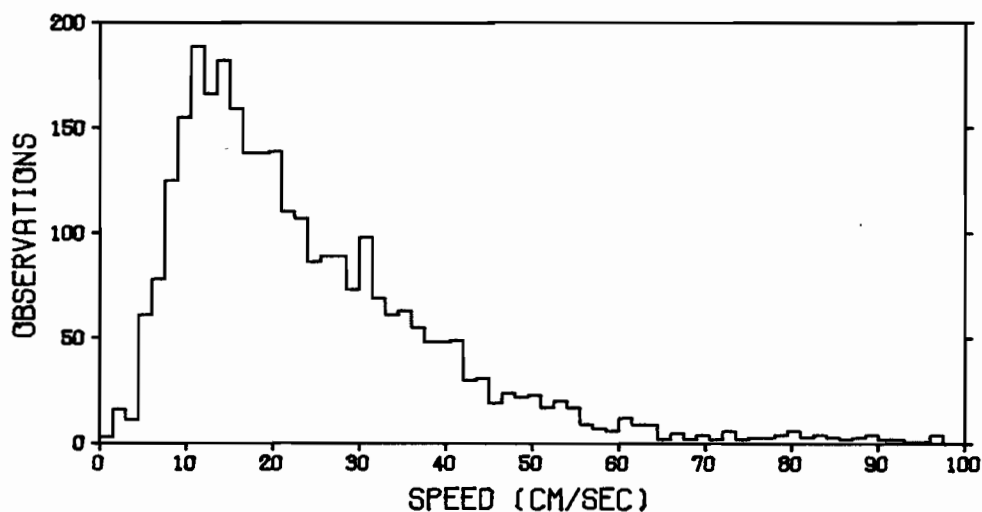
Sensors: Speed, Direction, Temperature, Conductivity, Pressure

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	23.96	236.36	15.37	1.536	6.10	97.41	1.50
U	-2.85	278.40	16.69	-.594	4.31	78.05	-89.28
V	13.34	345.92	18.60	.675	4.03	95.96	-43.07

S = SPEED

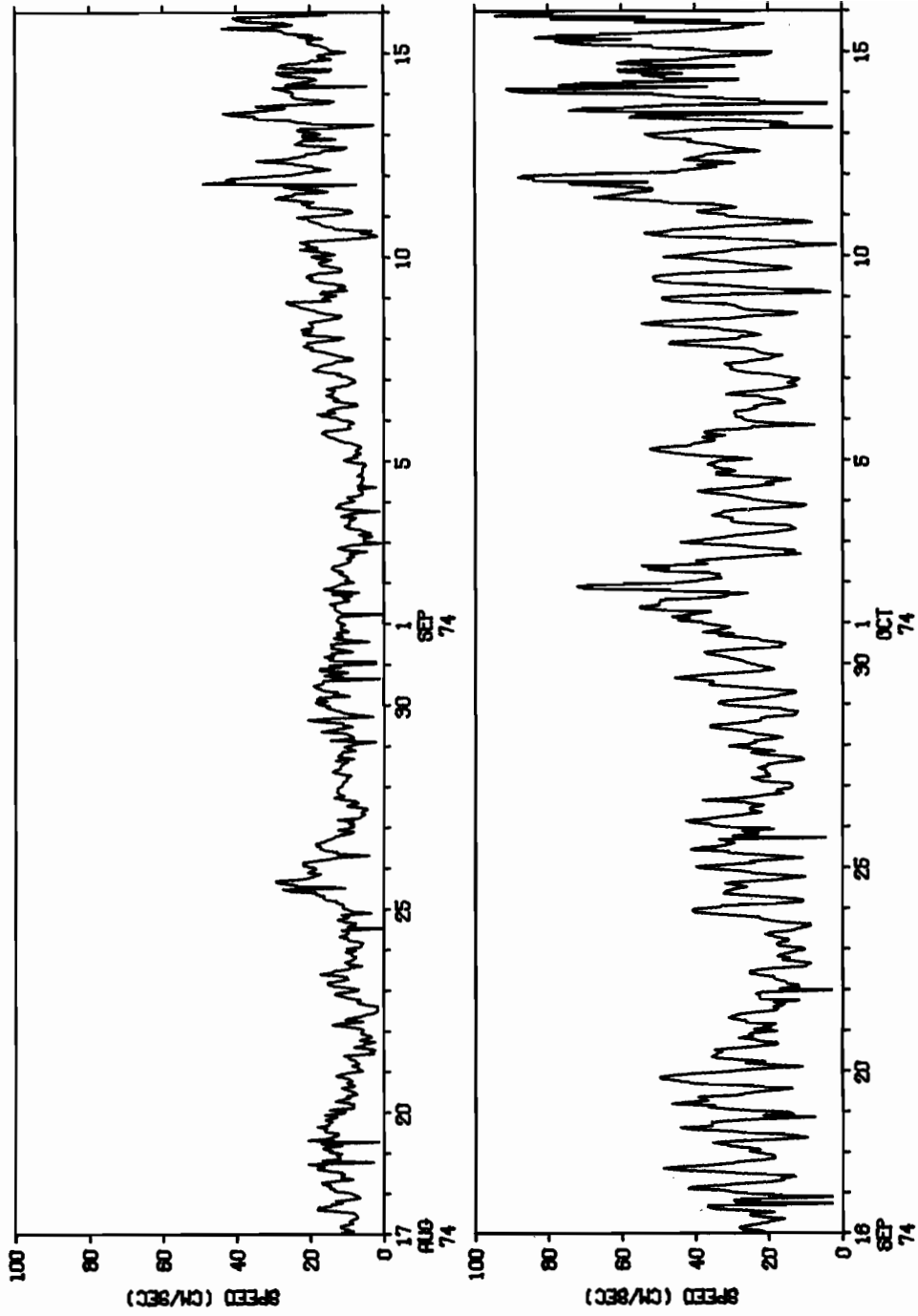
U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U

V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



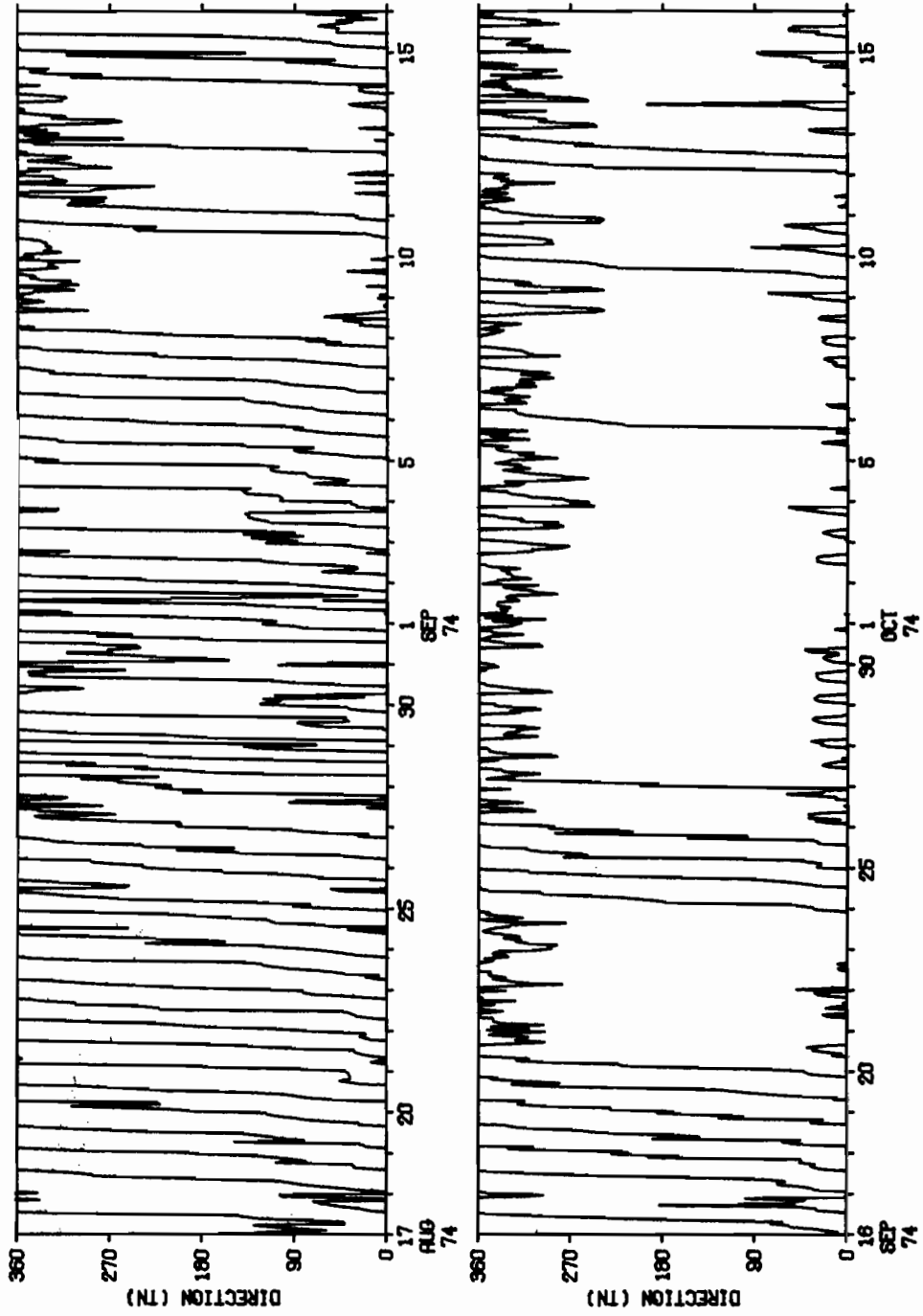
C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 24.0 METERS.



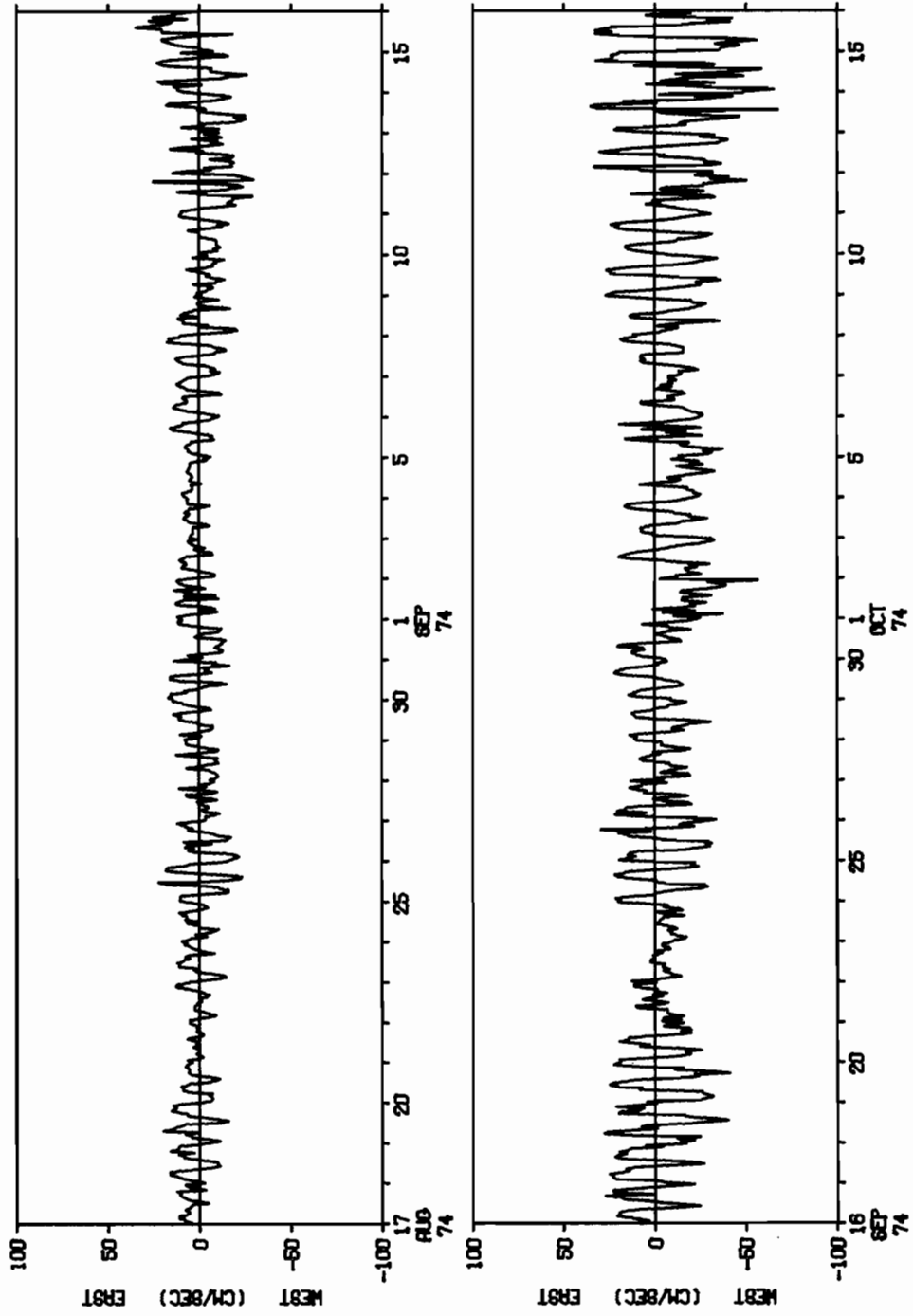
C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 24.0 METERS.



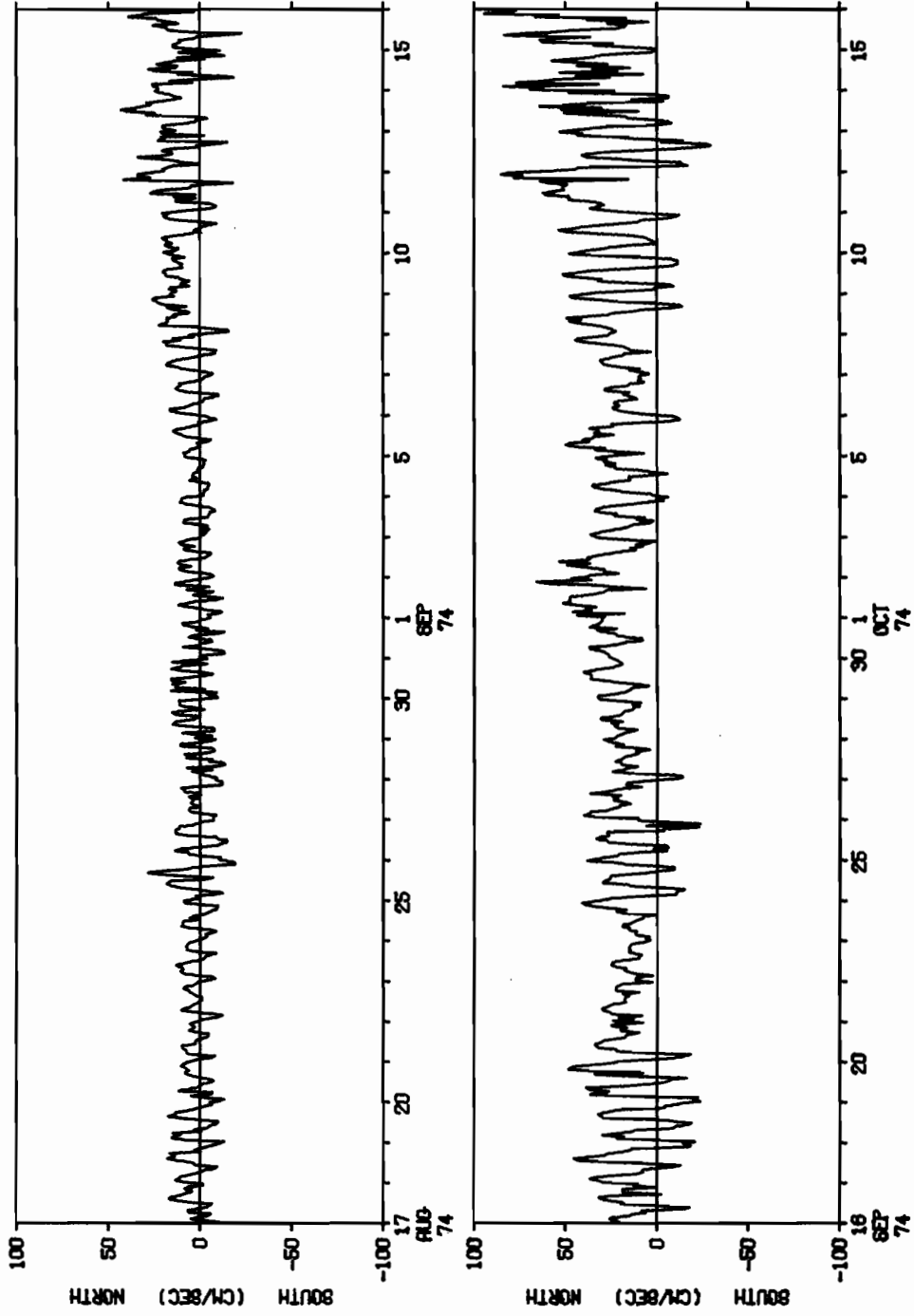
C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 24.0 METERS.



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

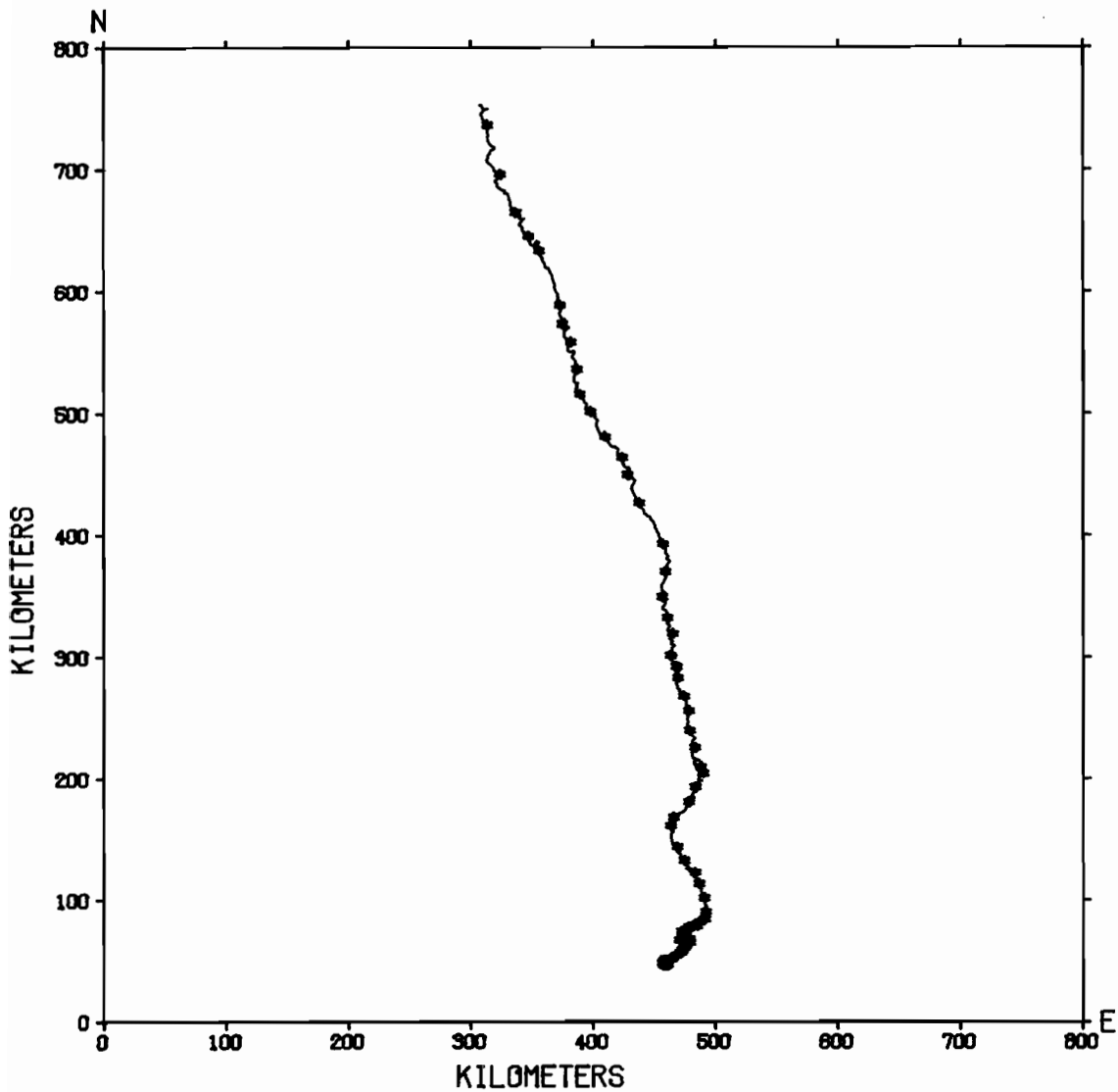
HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 24.0 METERS.



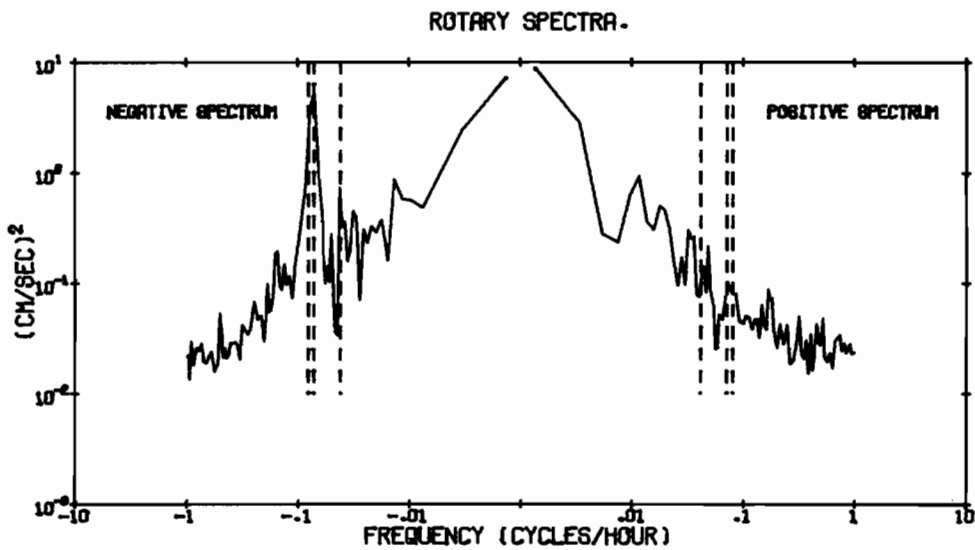
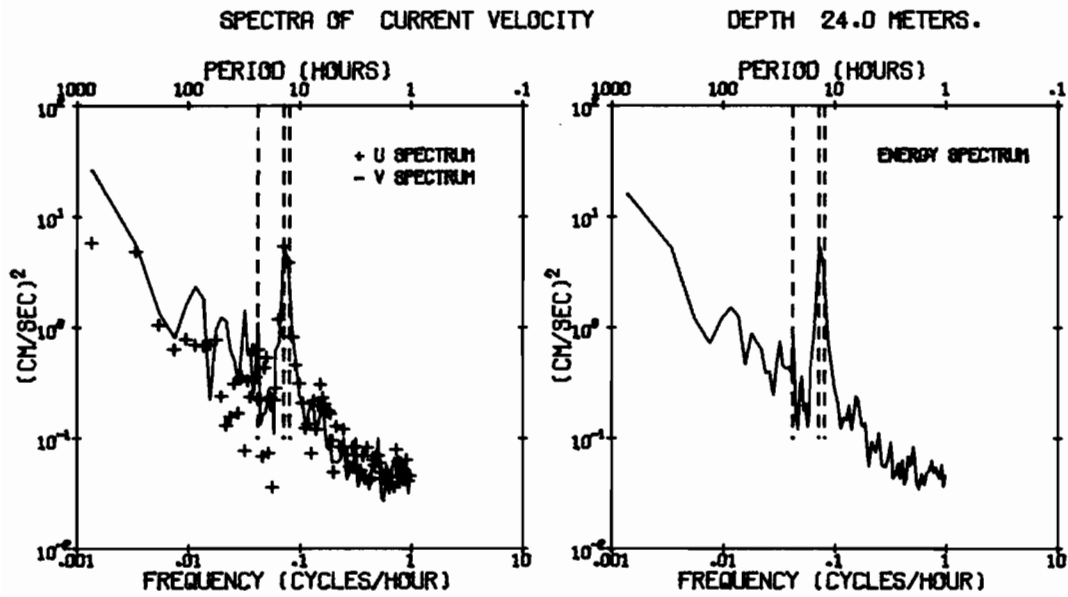


C.1. TIME SERIES ANALYSIS Current Meter 598  
Part 1 of 3 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF CURRENTS  
OBSERVATION PERIOD 61.0 DAYS FROM 0000 GMT 17 AUG 74.  
DEPTH 24.0 METERS.



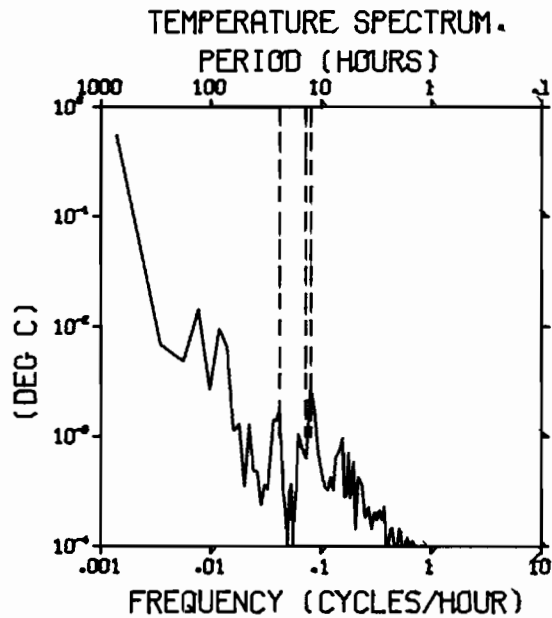
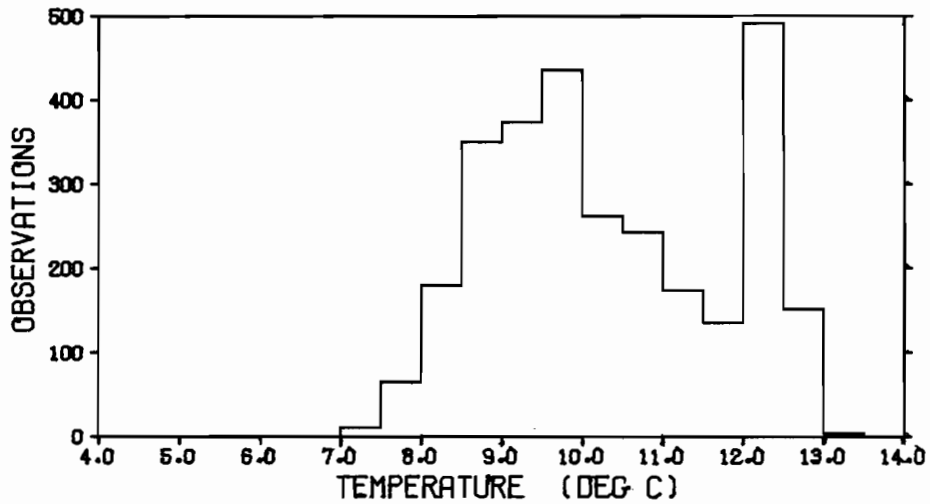
C.1. TIME SERIES ANALYSIS Current Meter 598  
Part 1 of 3 (Continued)



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 1 of 3 (Continued)

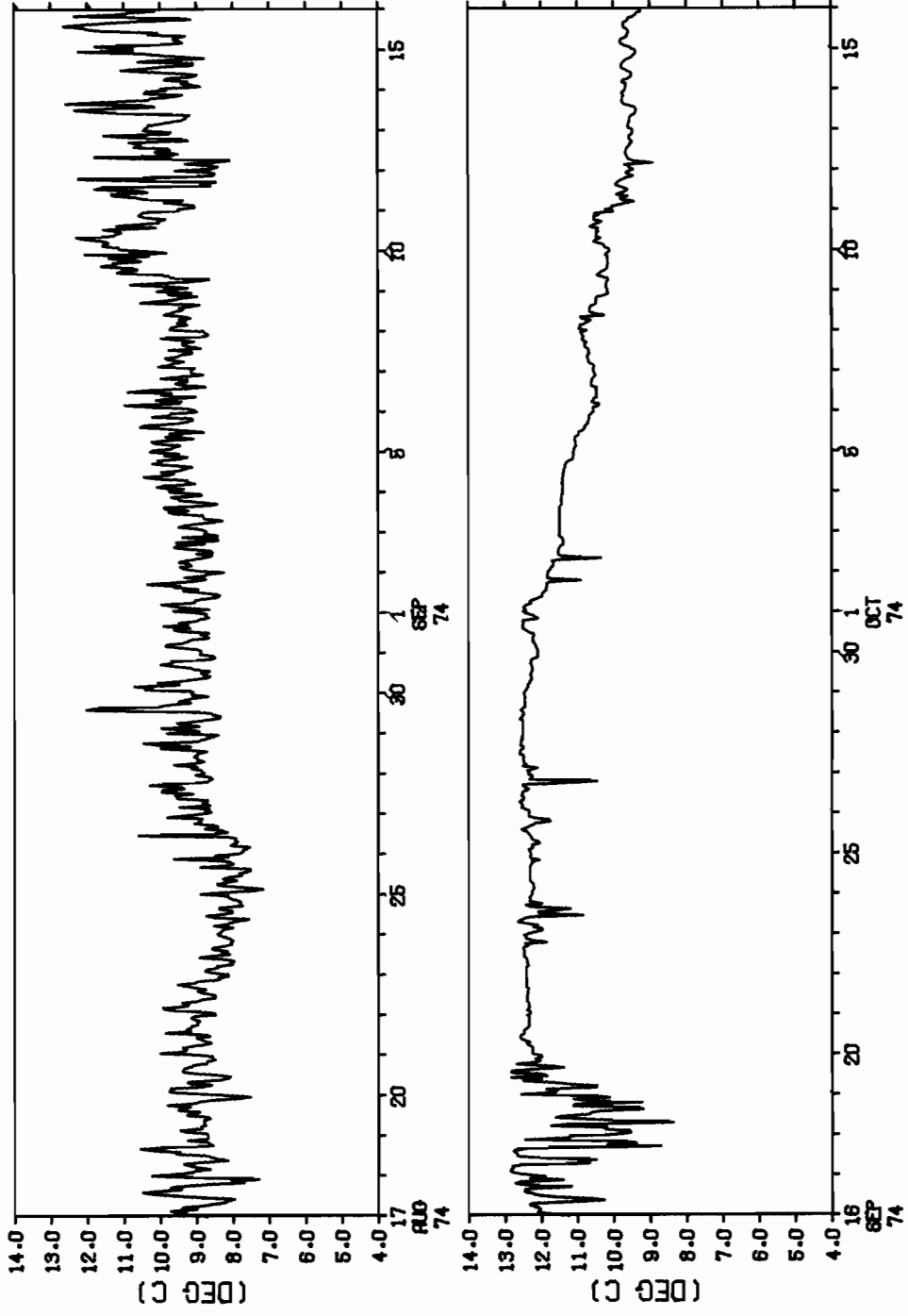
TEMPERATURE STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
 DEPTH 25.0 METERS            NUMBER OF OBSERVATIONS - 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 17 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
10.33	2.09	1.44	.18	1.81	13.10	7.08



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

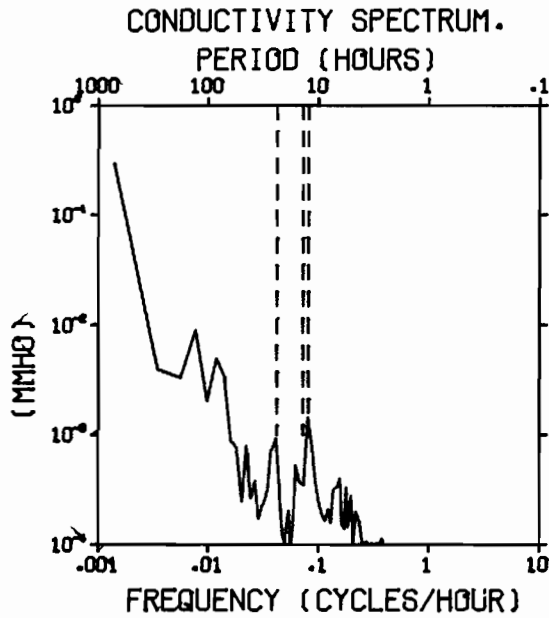
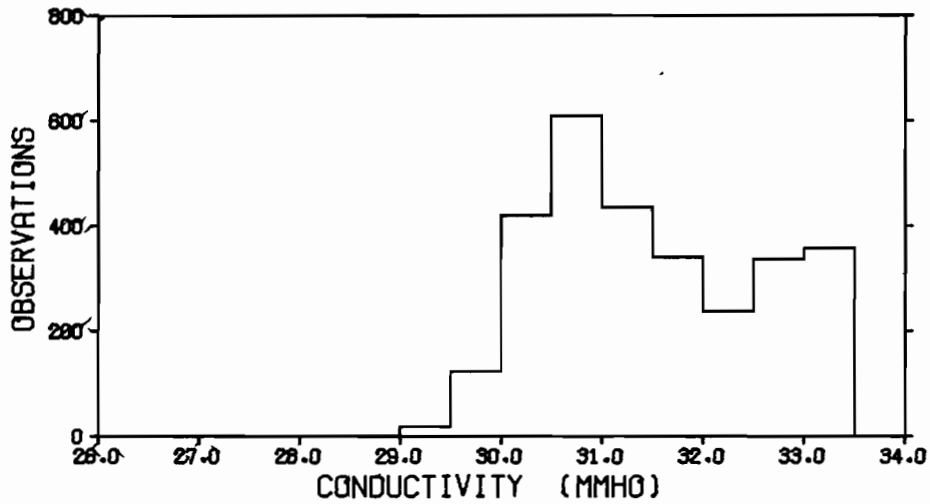
HOURLY AVERAGES OF TEMPERATURE DEPTH 25.0 METERS,



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 1 of 3 (Continued)

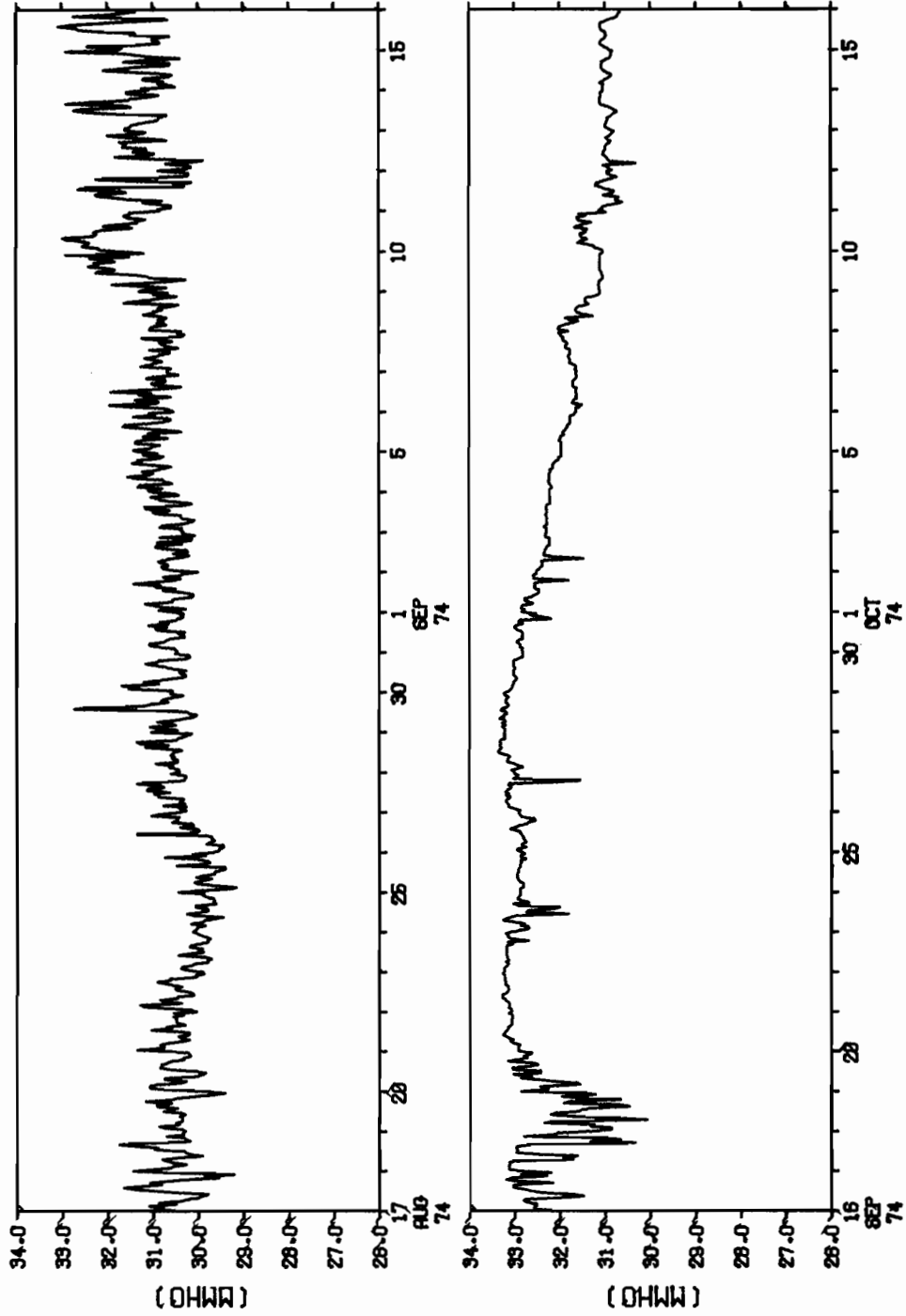
CONDUCTIVITY STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
 DEPTH 25.0 METERS            NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 17 AUG 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
31.48	1.12	1.06	.24	1.87	33.67	29.08



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

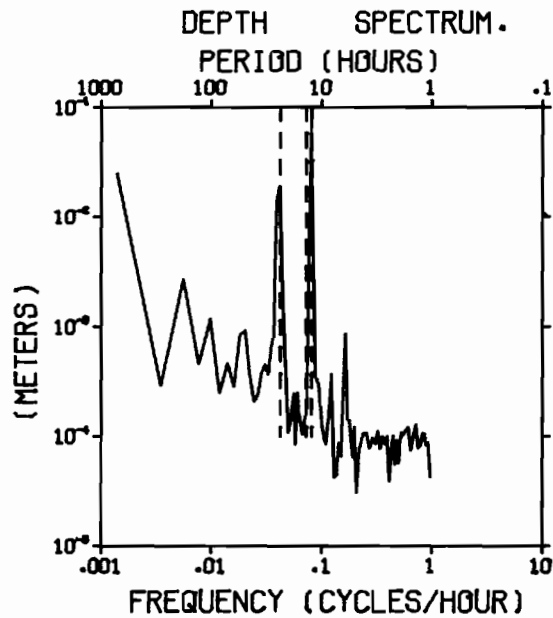
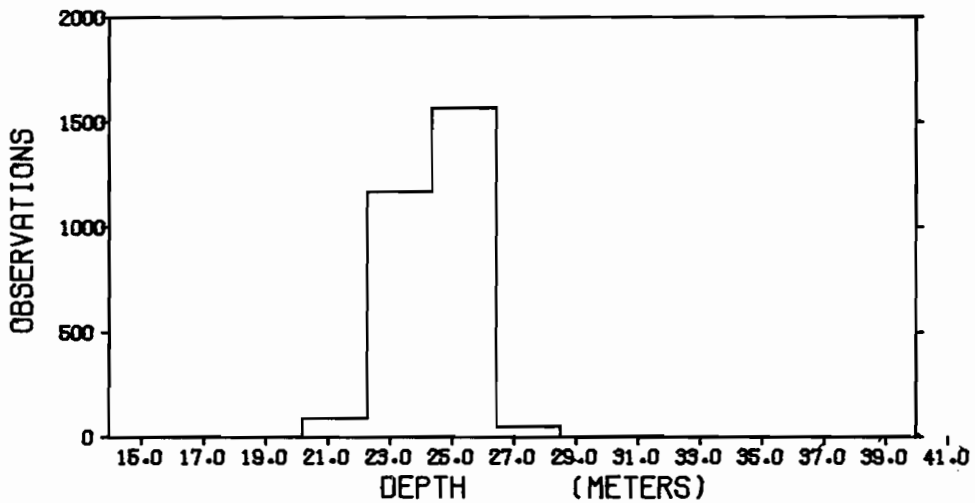
HOURLY AVERAGES OF CONDUCTIVITY DEPTH 25.0 METERS.



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 1 of 3 (Continued)

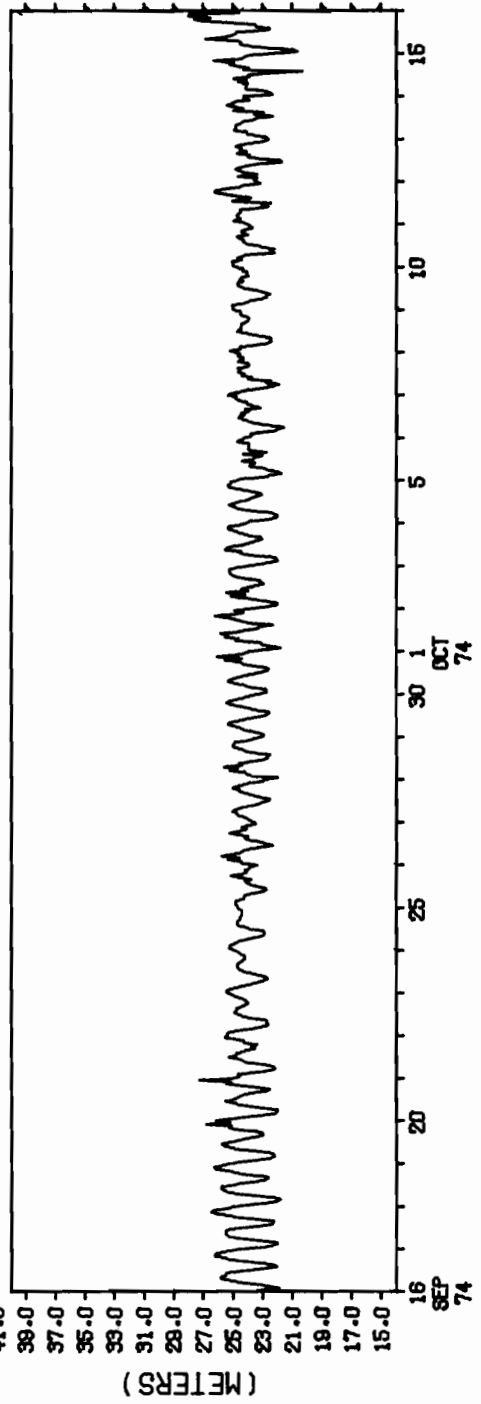
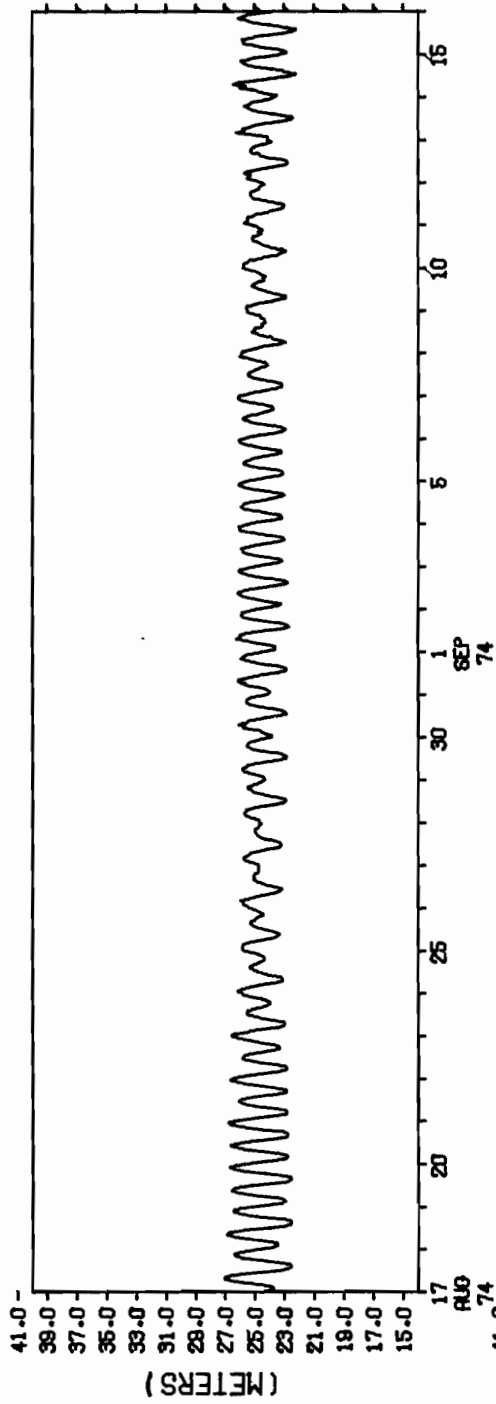
DEPTH STATISTICS LAT. 59 34.4N LONG. 142 10.5W  
 DEPTH 25.0 METERS NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 17 AUG 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
25.00	1.19	1.09	-.15	2.95	29.85	21.09



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 1 of 3 (Continued)

HOURLY AVERAGES OF DEPTH 25.0 METERS.



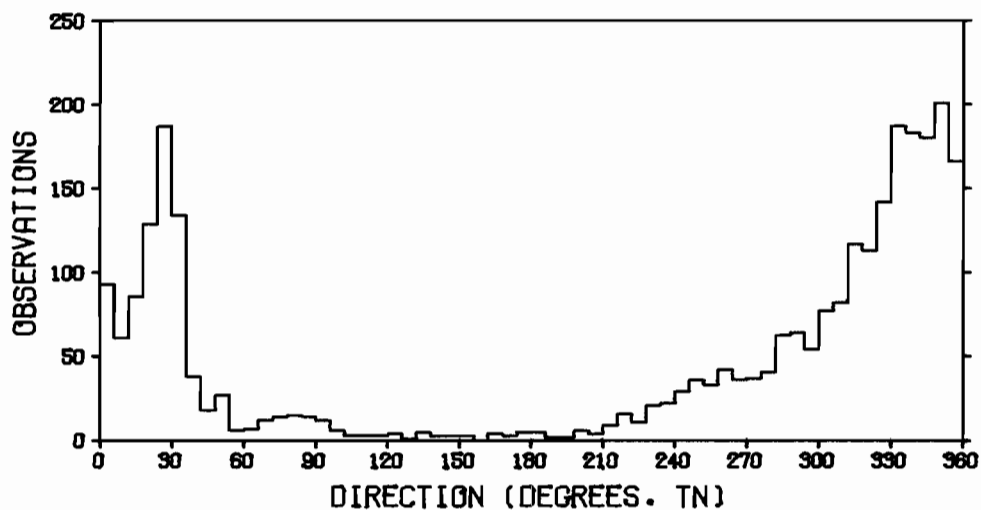
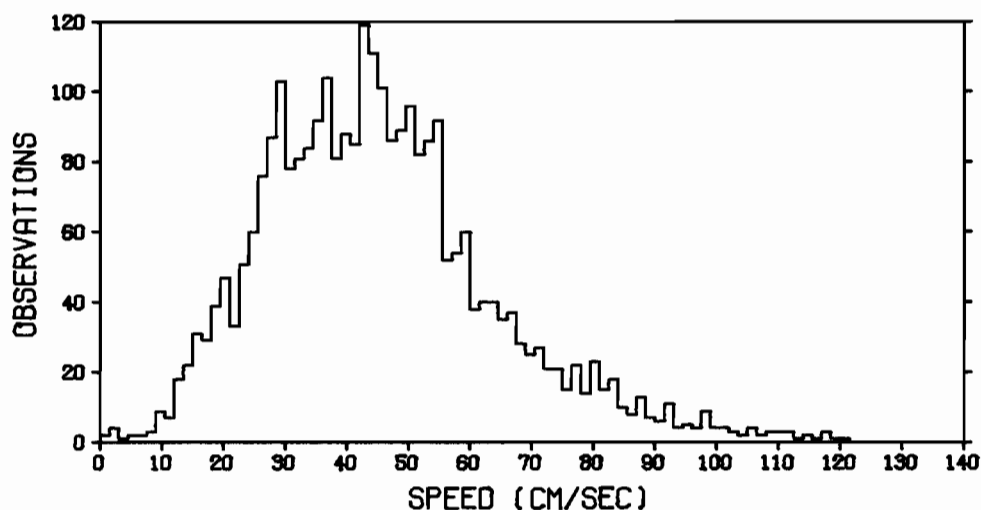


C.1. TIME SERIES ANALYSIS Current Meter 598 Nominal Depth: 20m  
 Part 2 of 3; 17 October - 16 December 1974

Mooring Designation NEG0A 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature, Conductivity, Pressure

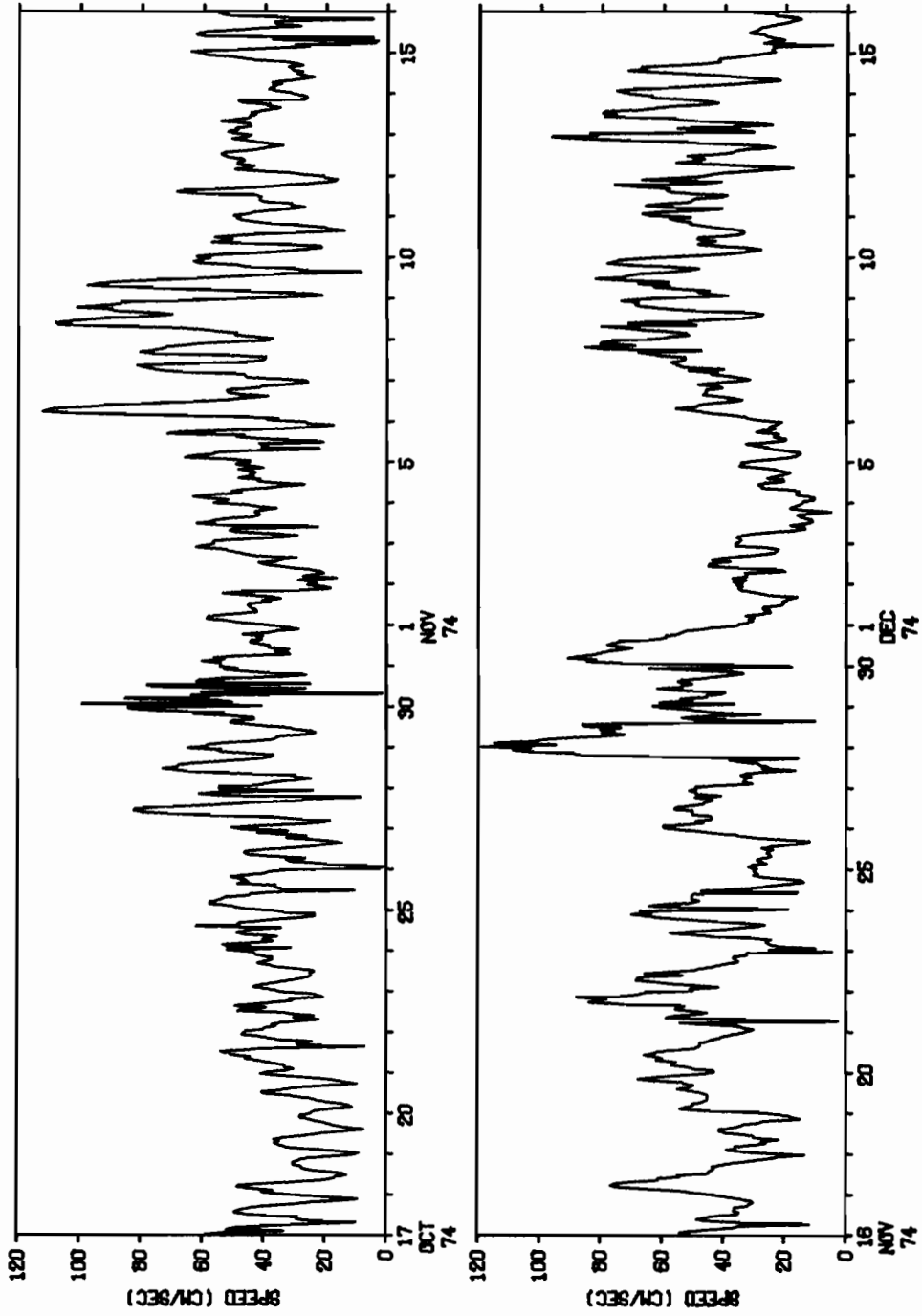
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	45.44	358.54	18.94	.773	3.87	120.32	.67
U	-12.29	635.17	25.20	-.139	3.32	108.38	-101.24
V	31.71	631.36	25.13	-.314	3.94	117.06	-98.49

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V

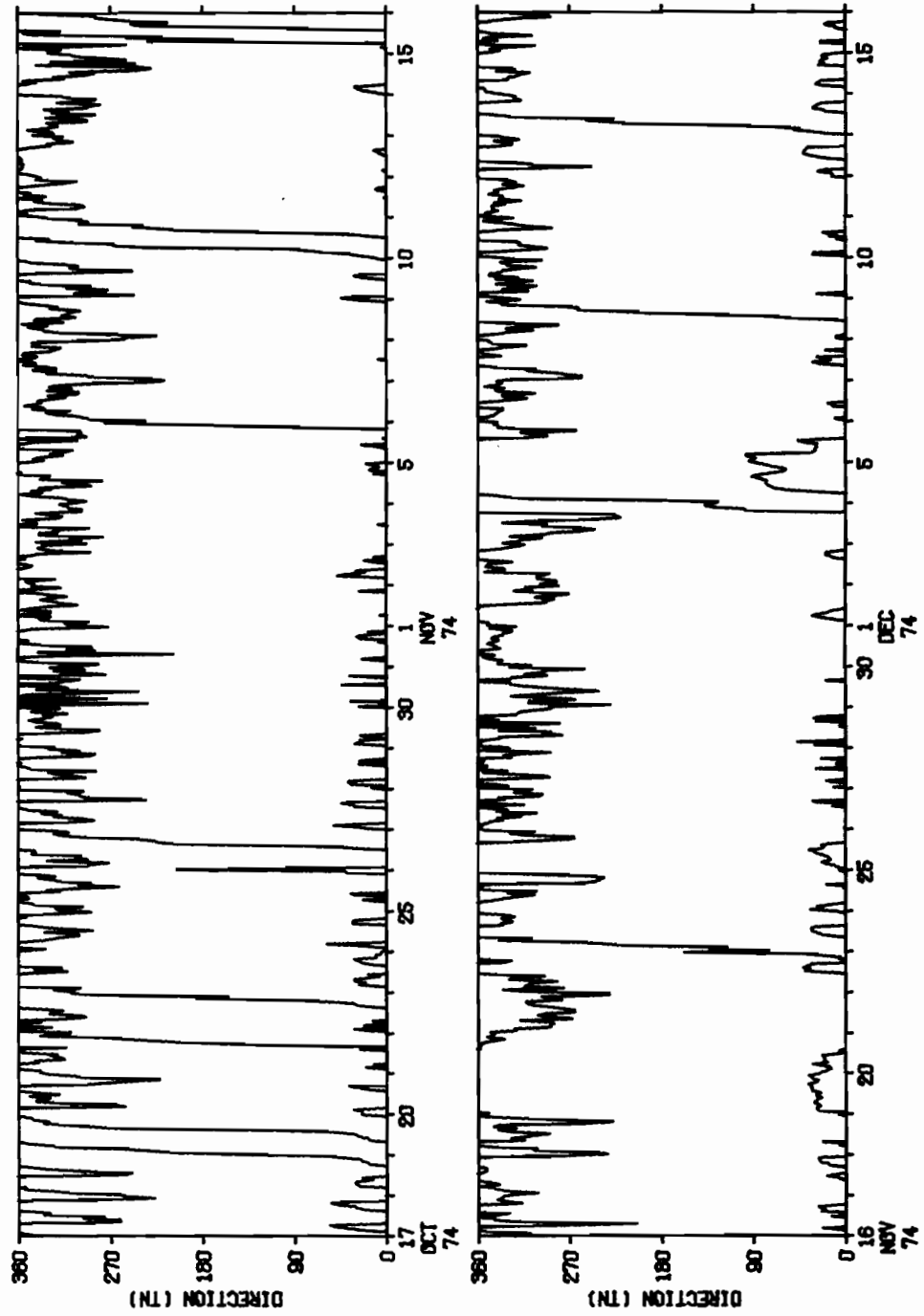


C.1. TIME SERIES ANALYSIS Current Meter 598 Part 2 of 3 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 24.0 METERS.

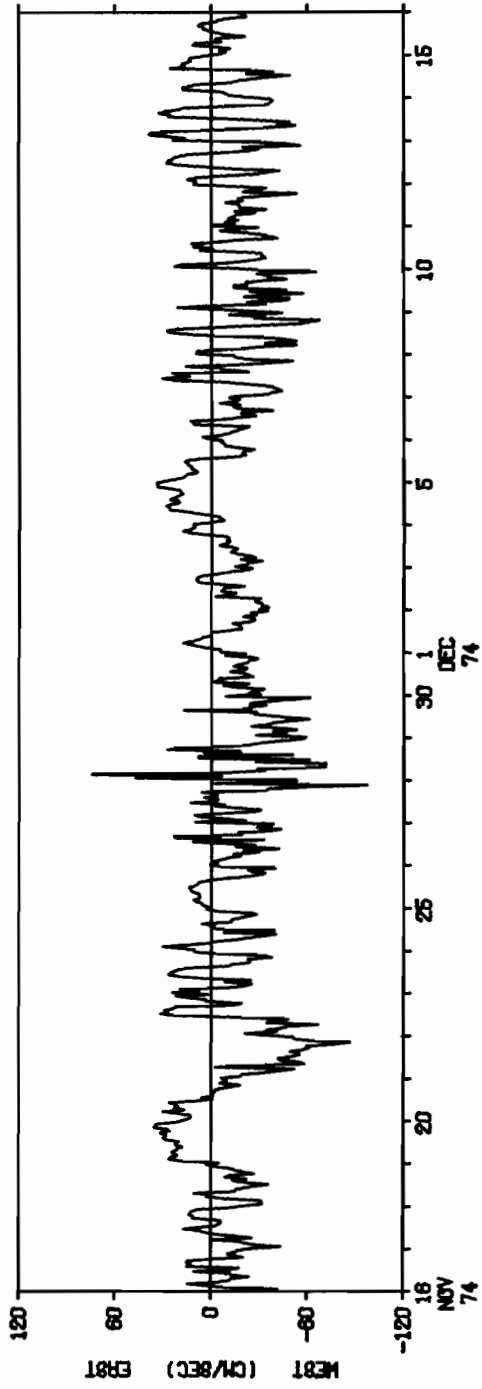
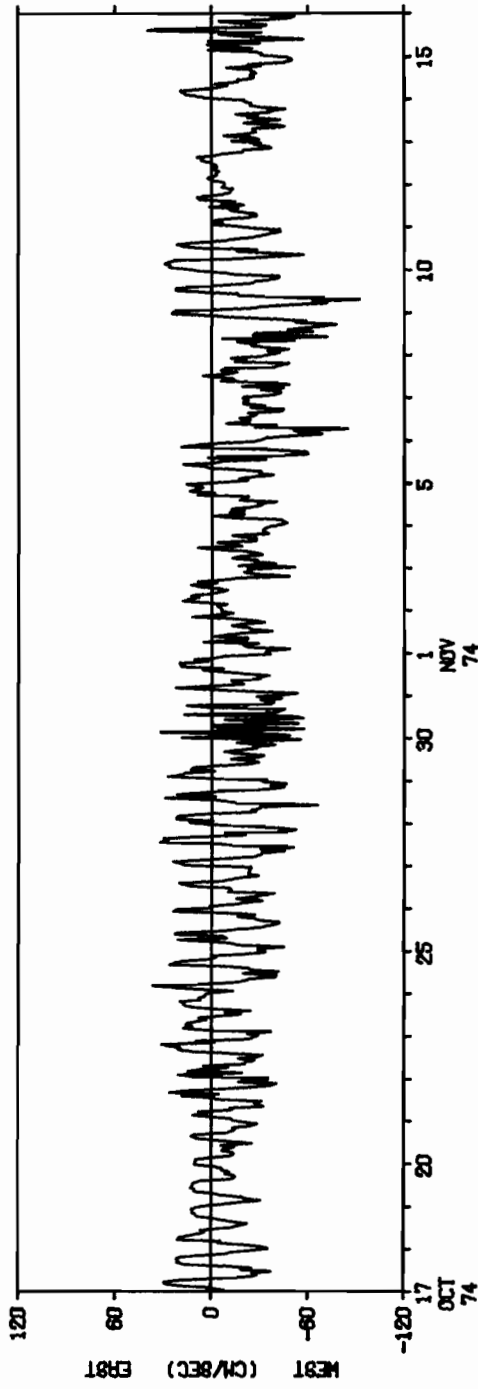


HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 24.0 METERS.

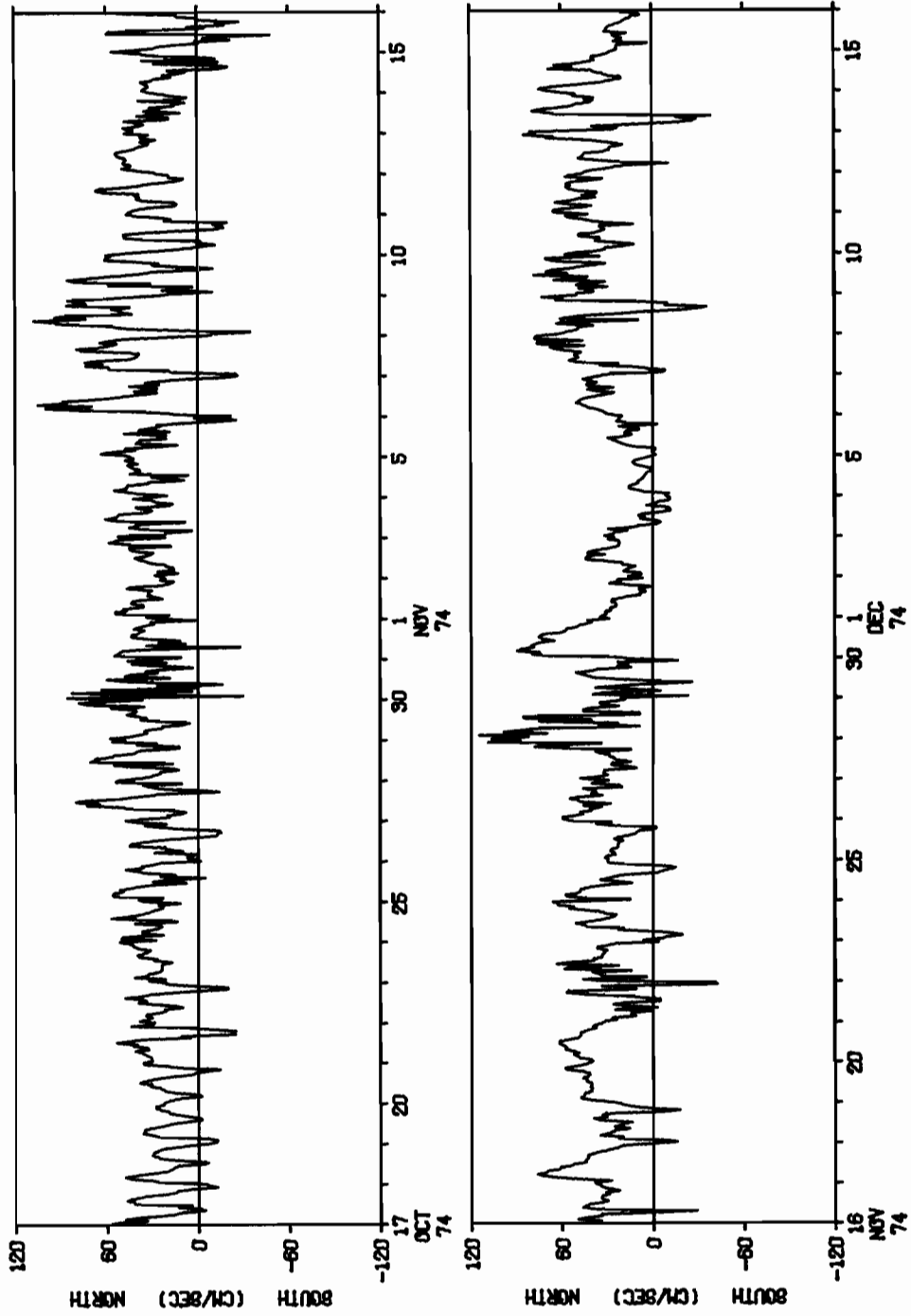


C.1. TIME SERIES ANALYSIS Current Meter 598 Part 2 of 3 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 24.0 METERS.

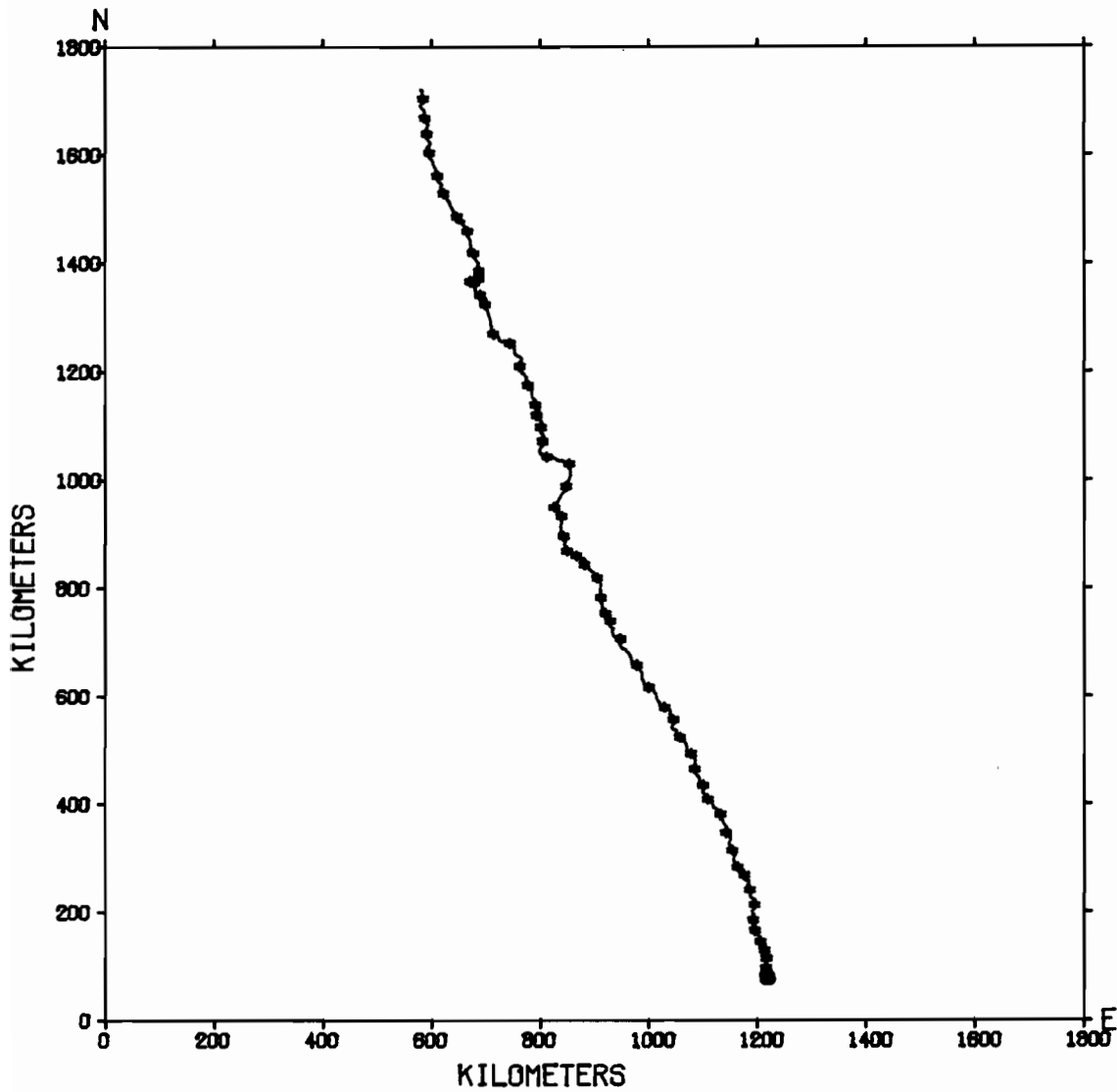


HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 24.0 METERS.

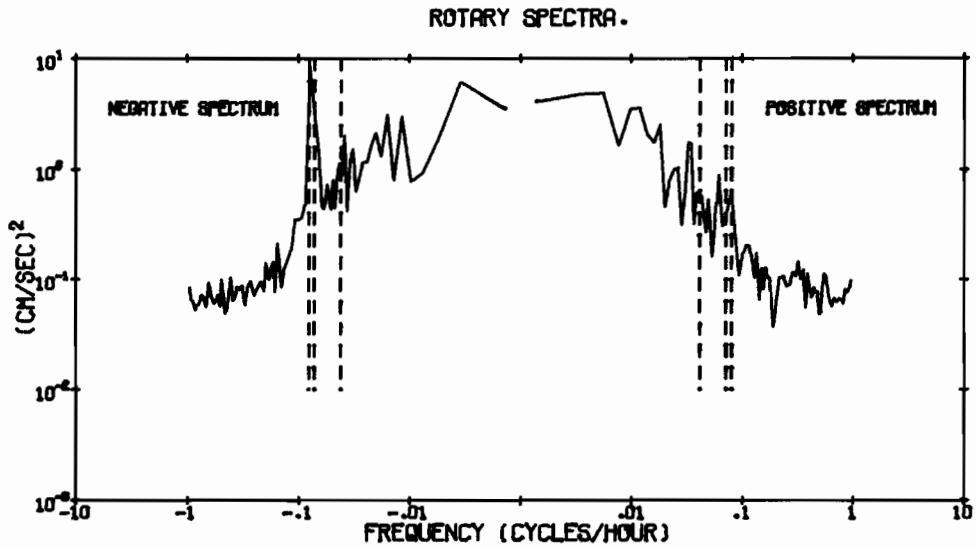
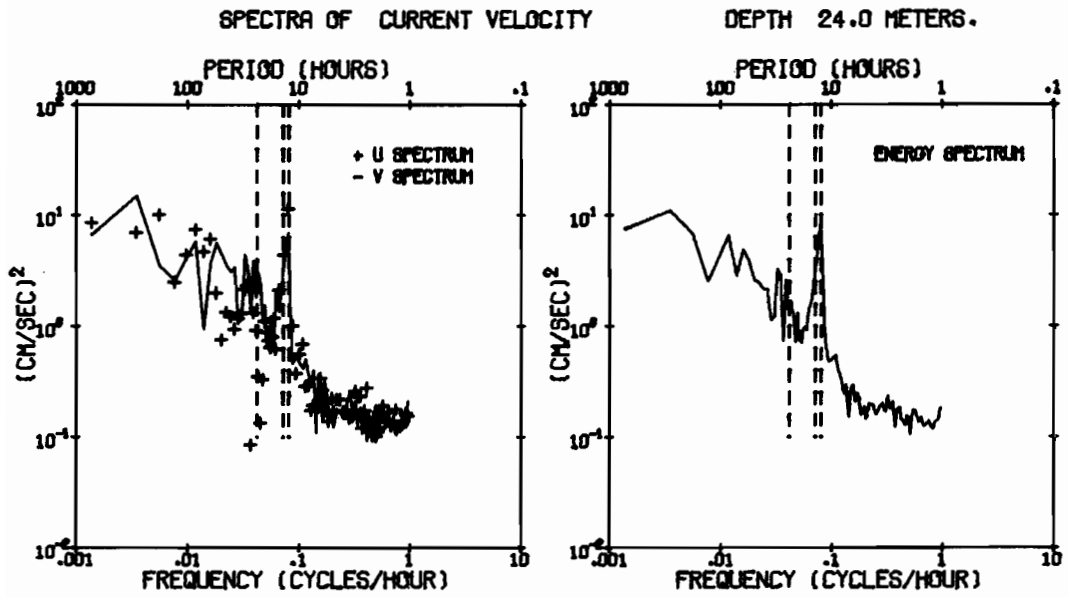


C.1. TIME SERIES ANALYSIS Current Meter 598  
Part 2 of 3 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF CURRENTS  
OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 17 OCT 74.  
DEPTH 24.0 METERS.



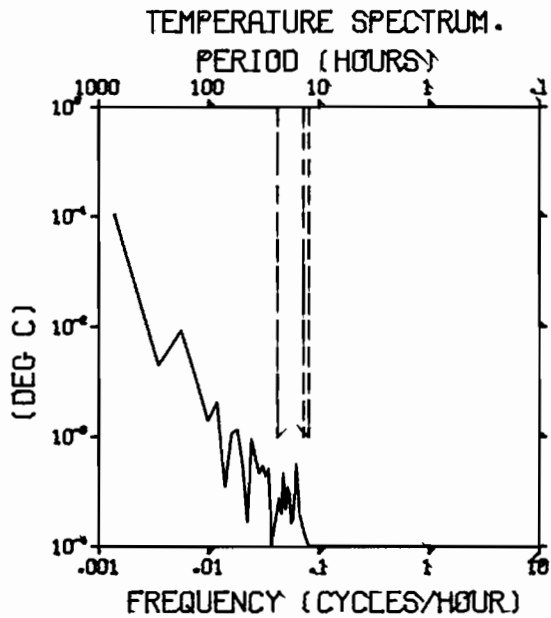
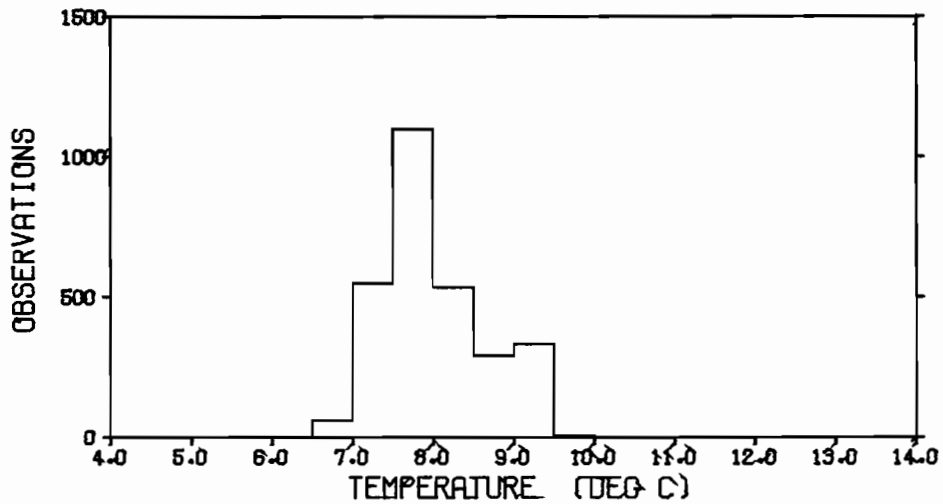
C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 2 of 3 (Continued)



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 2 of 3 (Continued)

TEMPERATURE STATISTICS      LAT 59 34.4N    LONG. 142 10.5W  
 DEPTH 25.0 METERS            NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 16 OCT 74

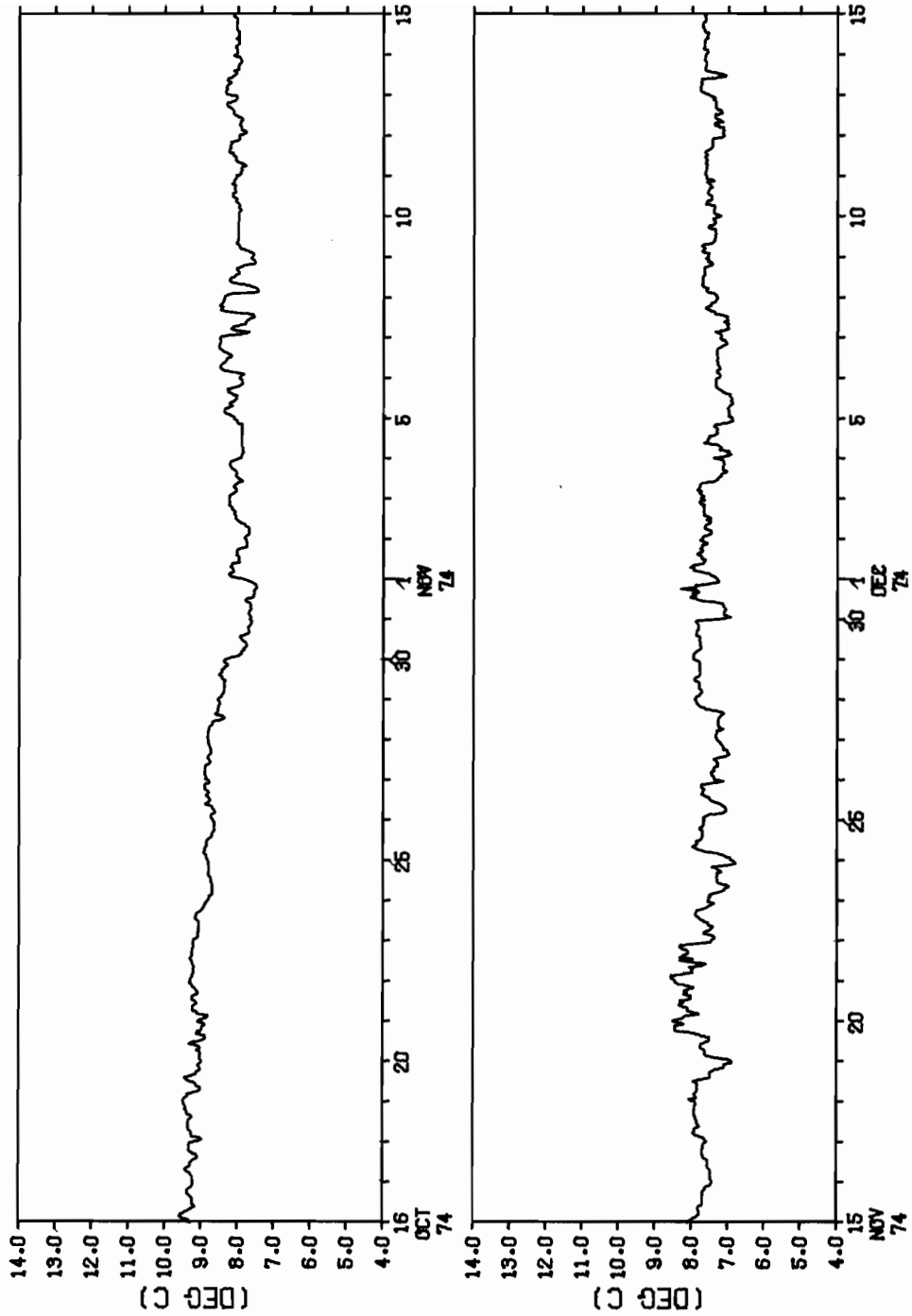
MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
8.01	.41	.64	.60	2.50	9.58	6.77





C.1. TIME SERIES ANALYSIS Current Meter 598 Part 2 of 3 (Continued)

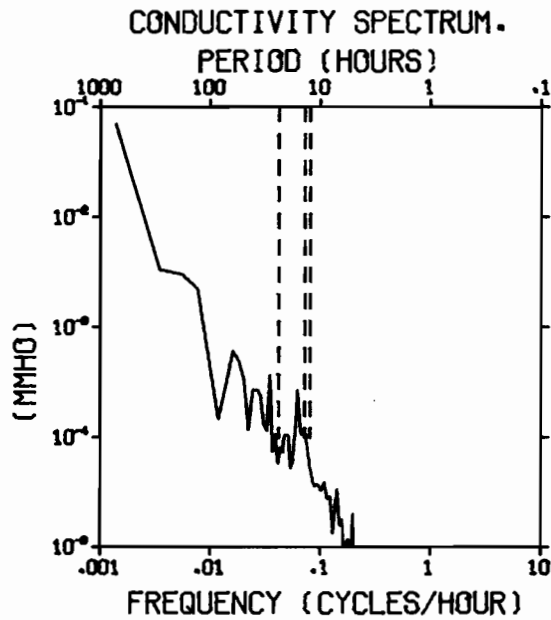
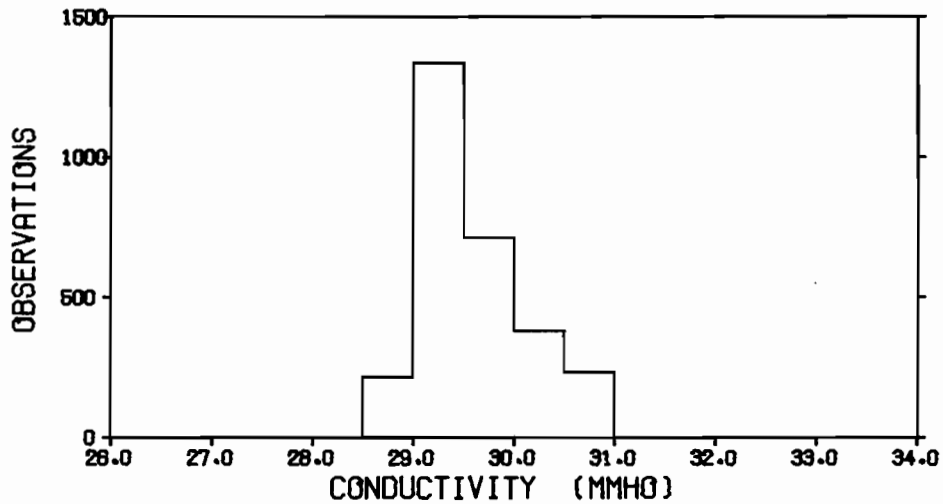
HOURLY AVERAGES OF TEMPERATURE, DEPTH 25.0 METERS.



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 2 of 3 (Continued)

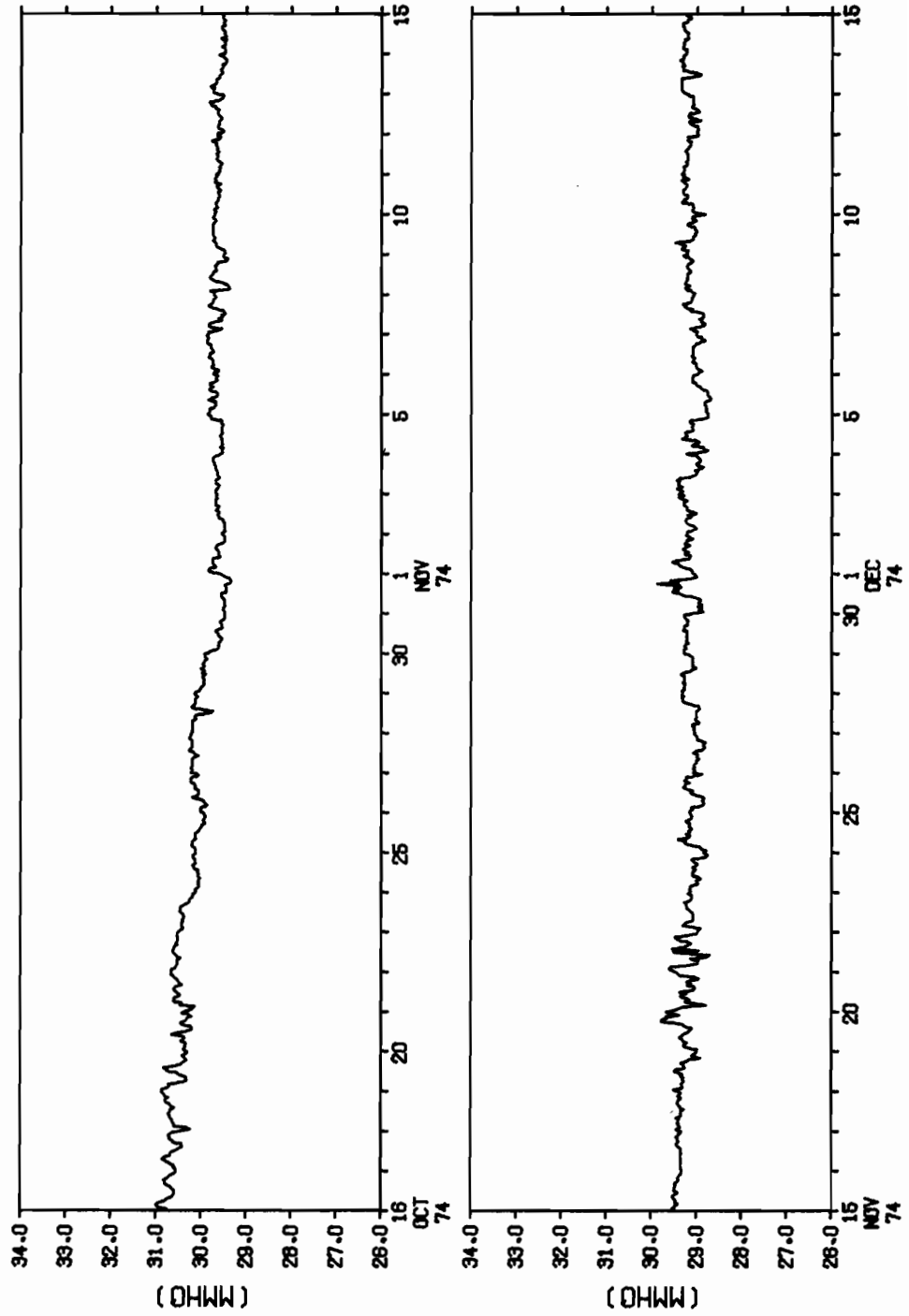
CONDUCTIVITY STATISTICS LAT. 59 34.4N LONG. 142 10.5W  
 DEPTH 25.0 METERS NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 16 OCT 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
29.57	.26	.51	.76	2.75	30.98	28.56



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 2 of 3 (Continued)

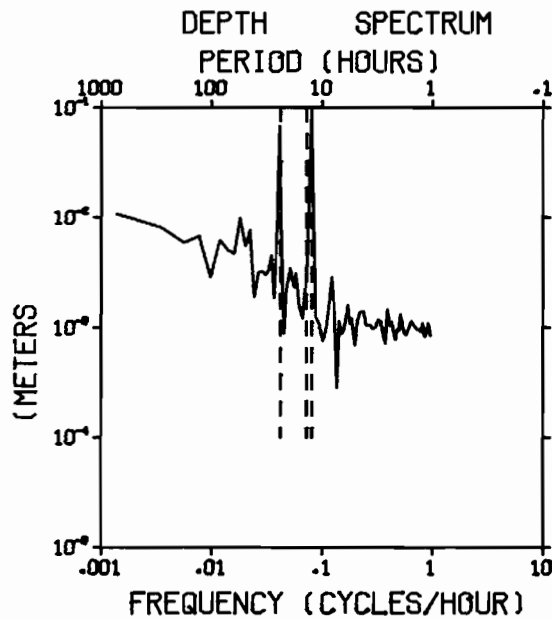
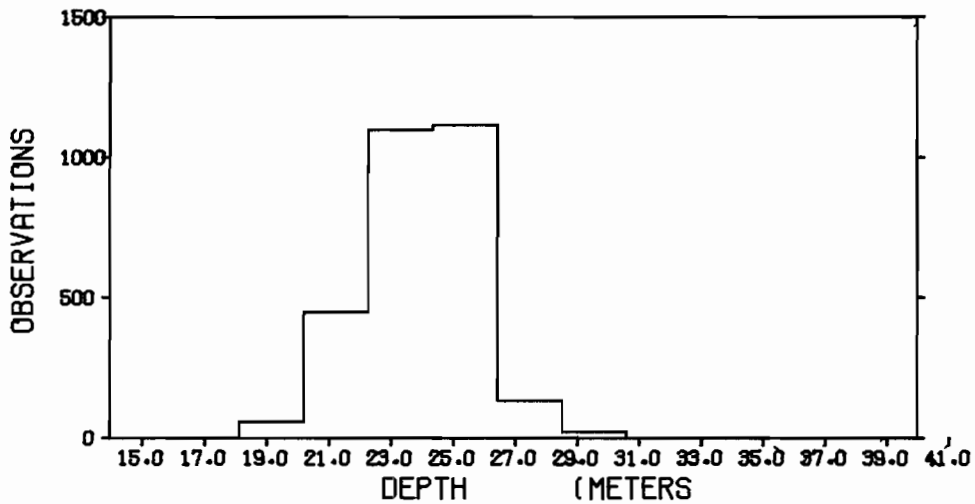
HOURLY AVERAGES OF CONDUCTIVITY DEPTH 25.0 METERS.



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 2 of 3 (Continued)

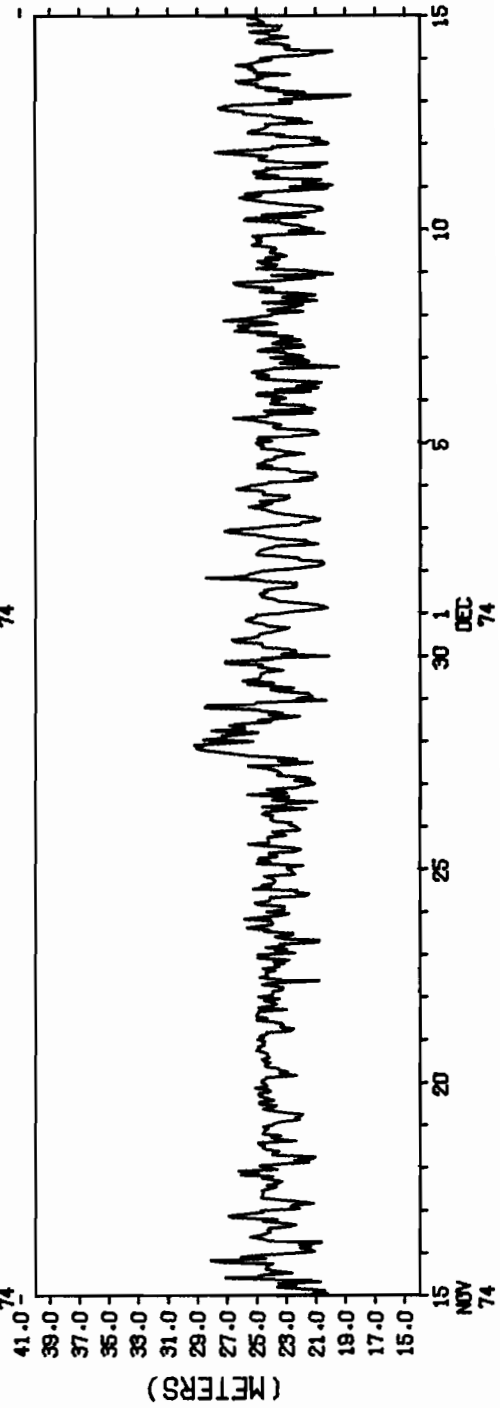
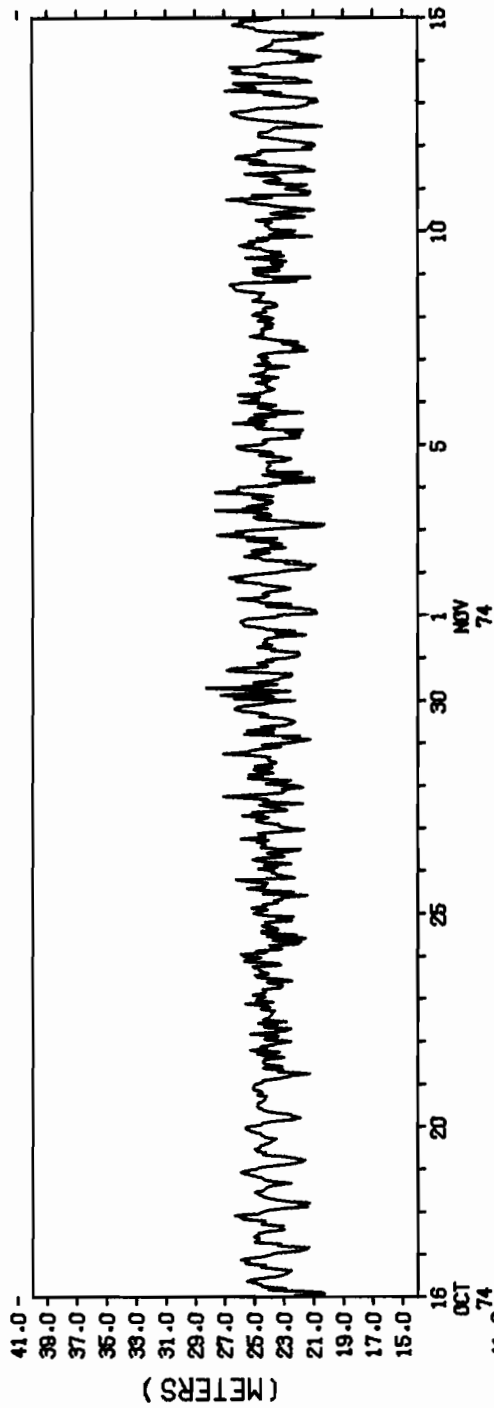
DEPTH STATISTICS LAT. 59 34.4N LONG. 142 10.5W  
 DEPTH 25.0 METERS NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0000 GMT 16 OCT 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
24.55	2.85	1.69	-.09	3.43	30.61	19.43



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 2 of 3 (Continued)

HOURLY AVERAGES OF DEPTH 25.0 METERS.

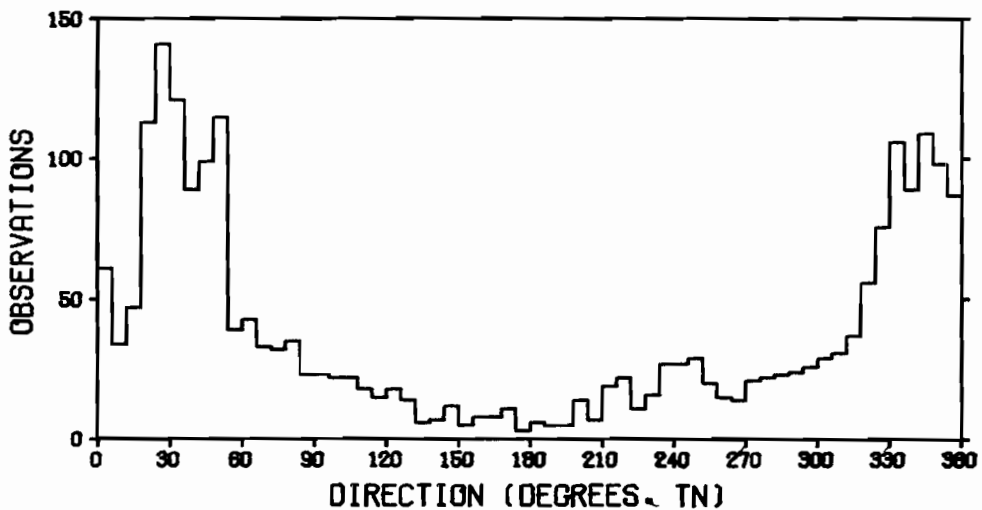
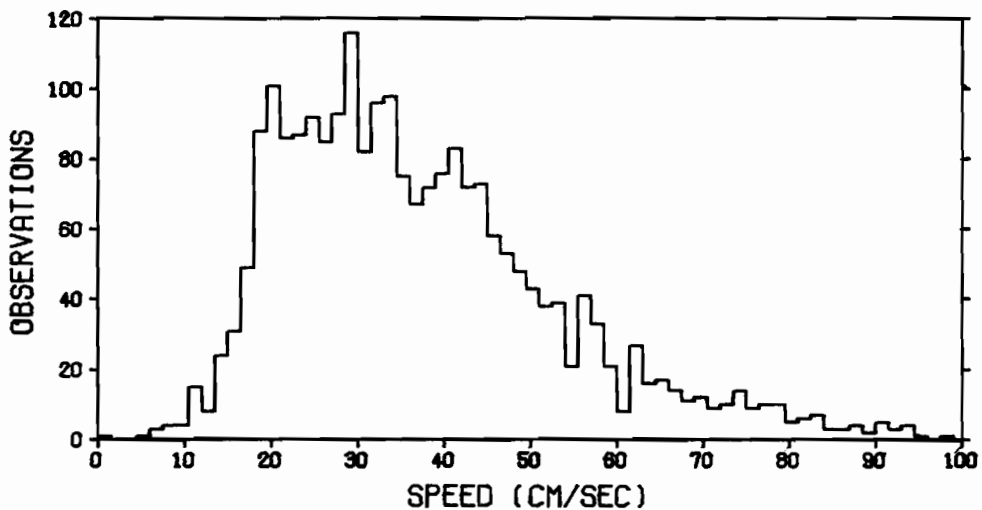


C.1. TIME SERIES ANALYSIS Current Meter 598 Nominal Depth: 20m  
 Part 3 of 3; 16 December - 2 February 1975

Mooring Designation NEG0A 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature, Conductivity, Pressure

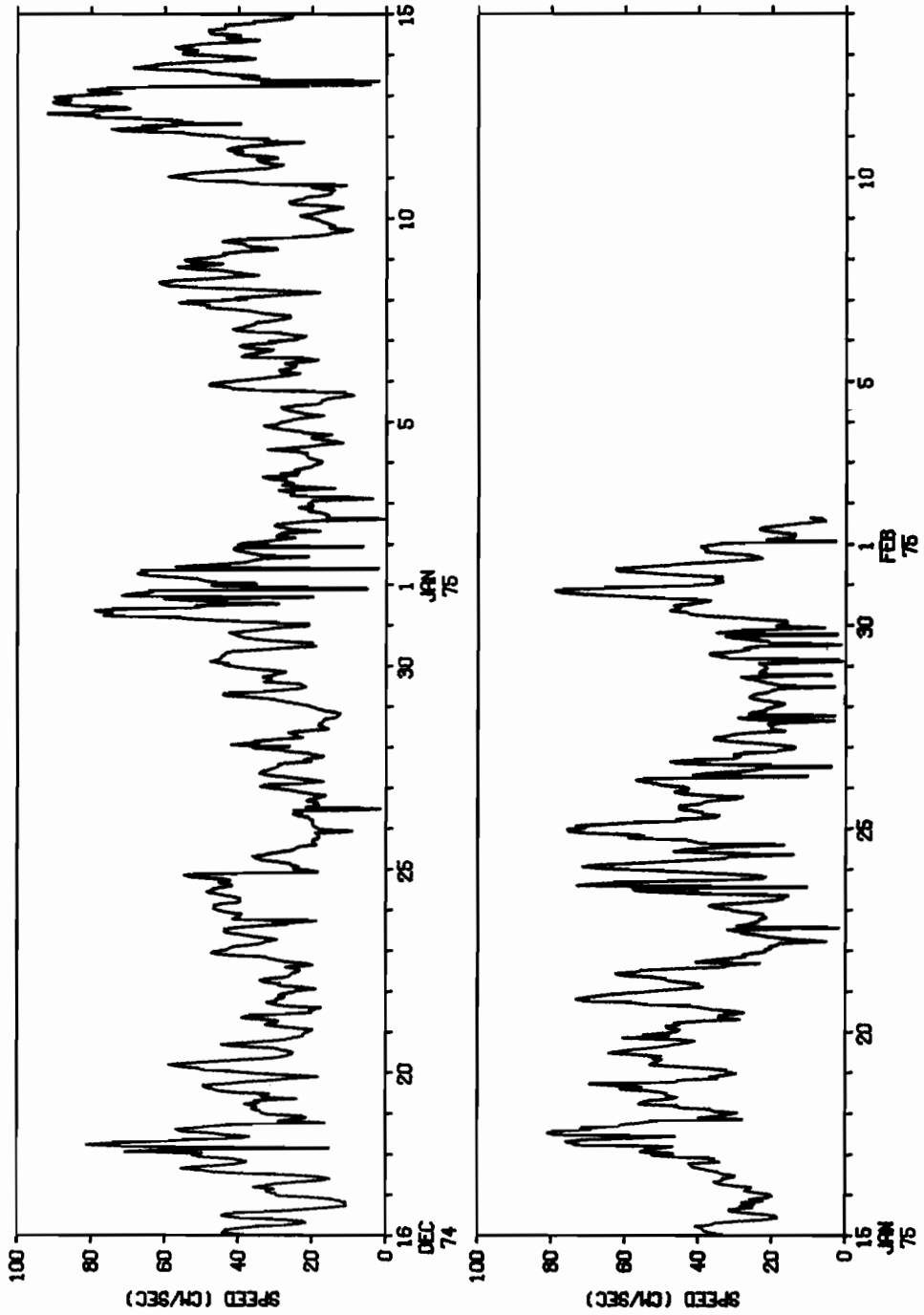
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	37.24	258.12	16.07	.927	3.74	98.93	1.50
U	.77	658.49	25.66	-.401	2.95	66.33	-95.76
V	20.80	553.35	23.52	-.325	3.20	90.62	-61.48

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V

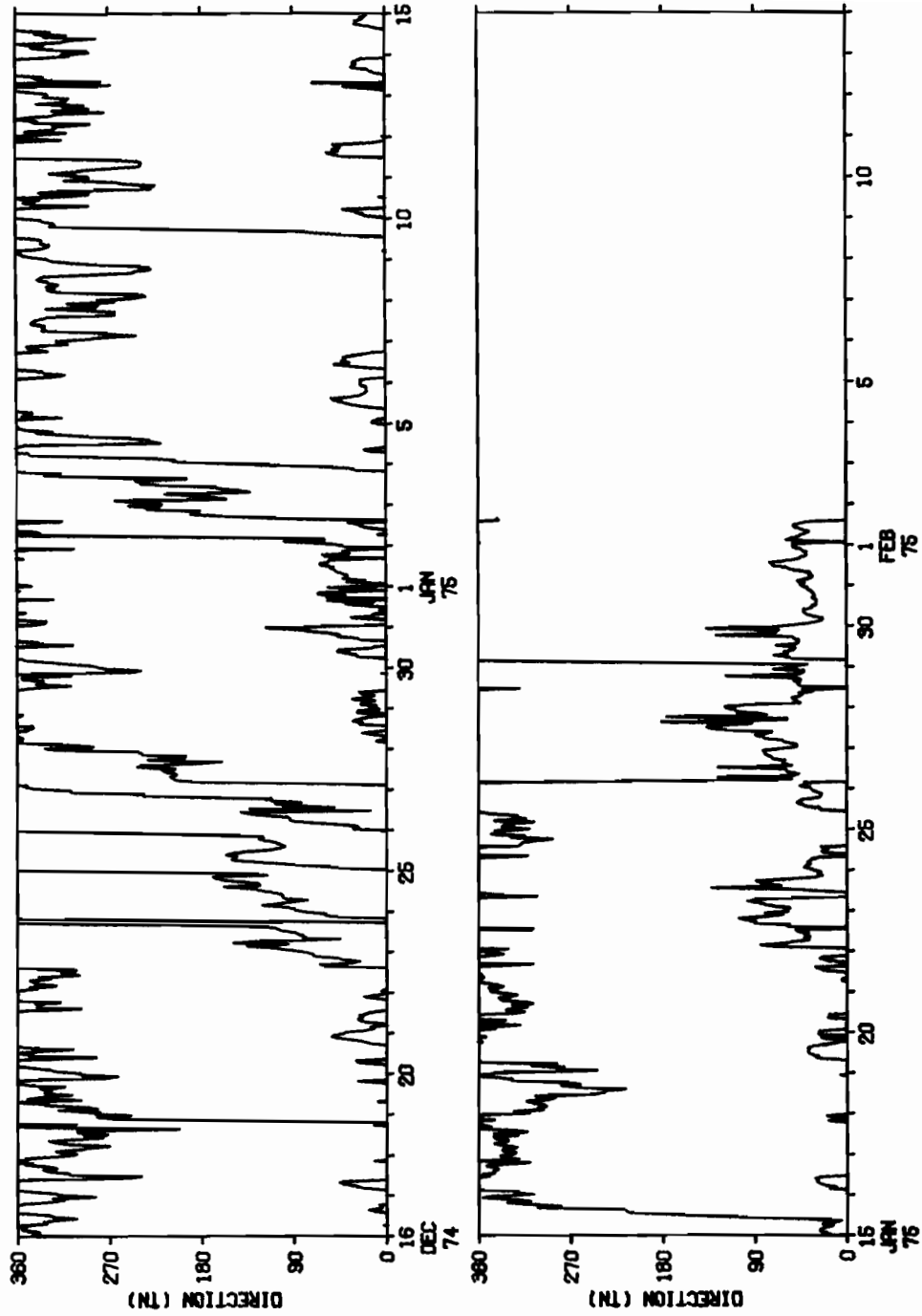


C.1. TIME SERIES ANALYSIS Current Meter 598 Part 3 of 3 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 24.0 METERS.



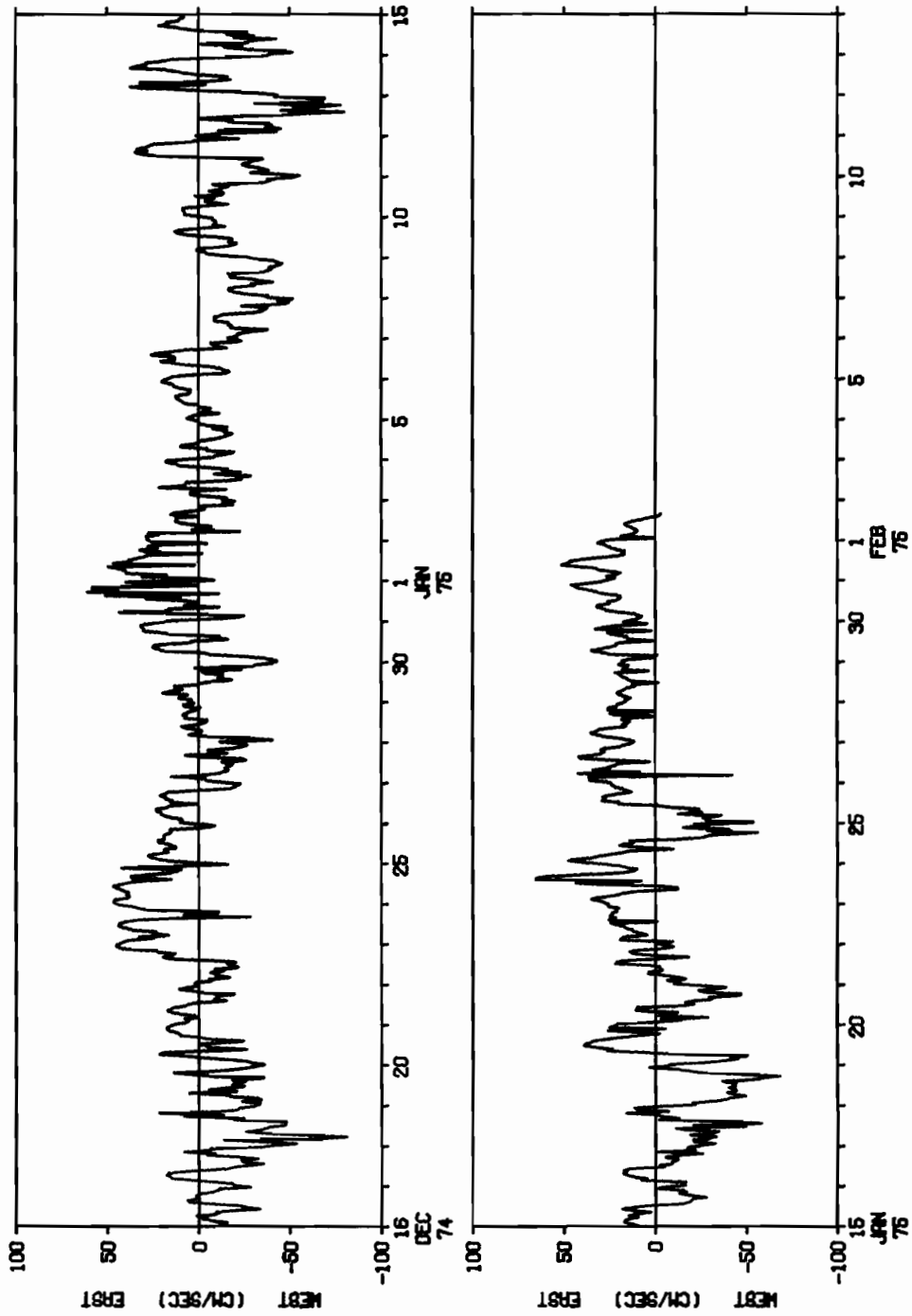
HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 24.0 METERS.





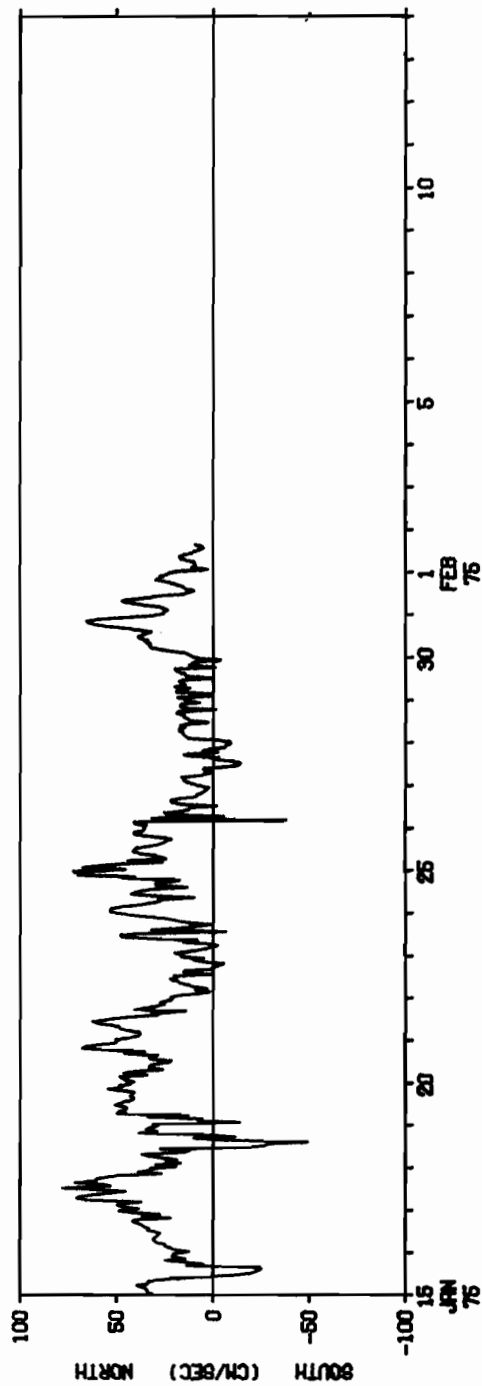
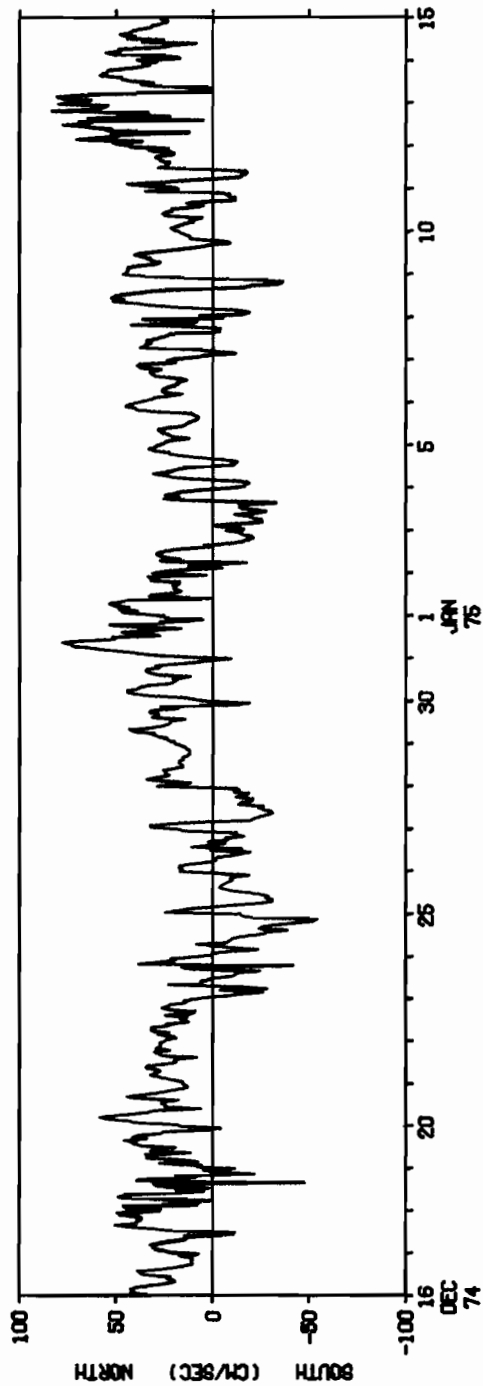
C.1. TIME SERIES ANALYSIS Current Meter 598 Part 3 of 3 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 24.0 METERS.



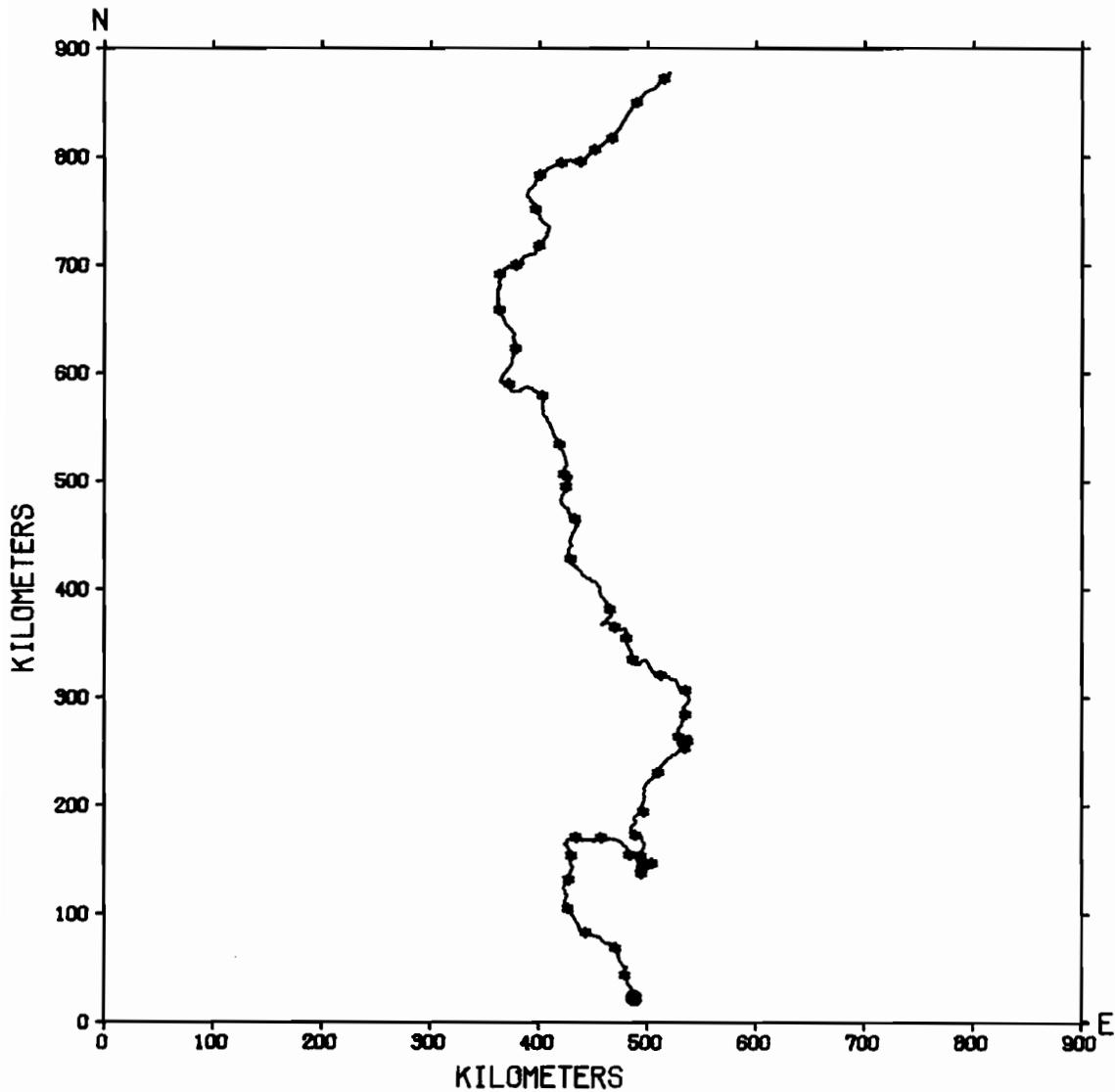
C.1. TIME SERIES ANALYSIS Current Meter 598 (Part 3 of 3 (Continued))

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 24.0 METERS.



C.1. TIME SERIES ANALYSIS Current Meter 598  
Part 3 of 3 (Continued)

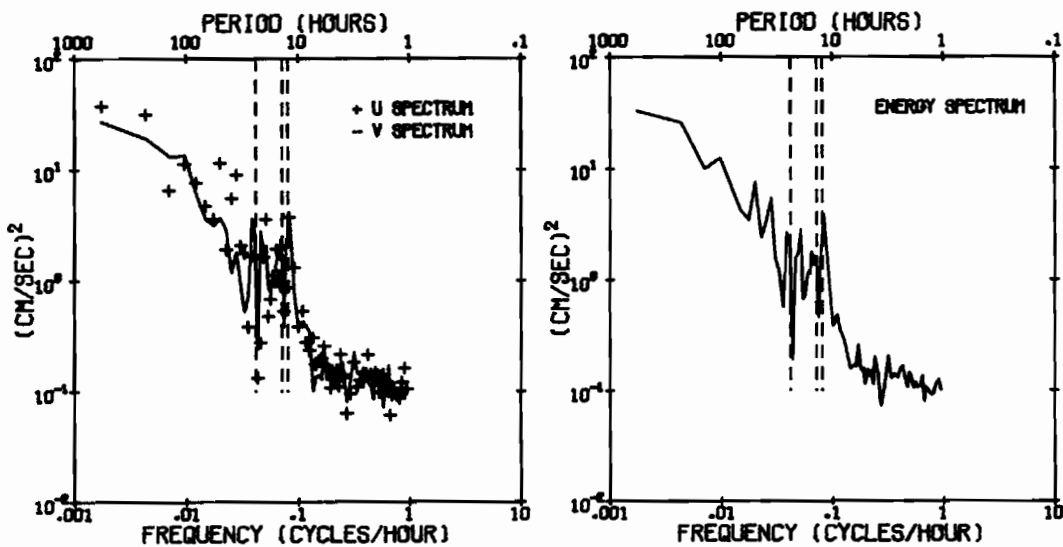
PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGDA - 62A  
OBSERVATION PERIOD 47.7 DAYS FROM 0000 GMT 16 DEC 74.  
DEPTH 24.0 METERS.



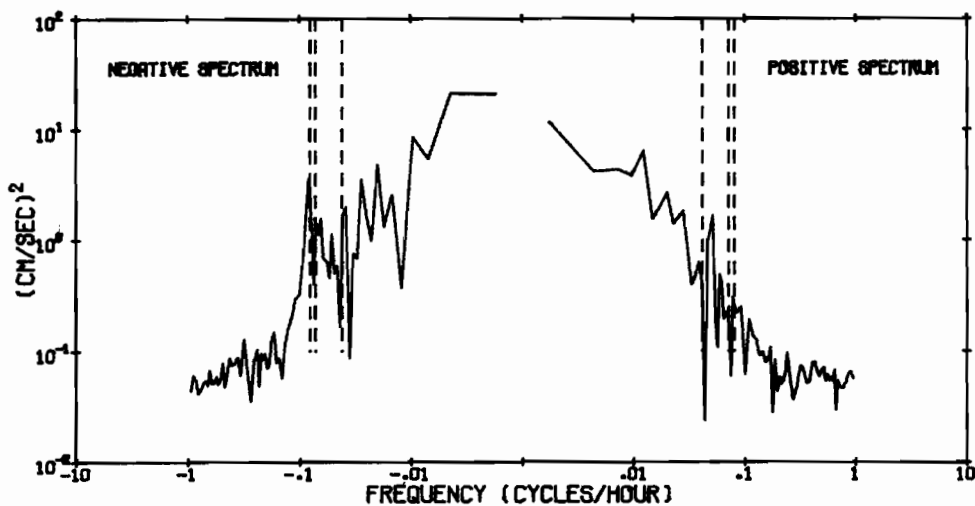
C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 3 of 3 (Continued)

SPECTRA OF CURRENT VELOCITY

DEPTH 24.0 METERS.



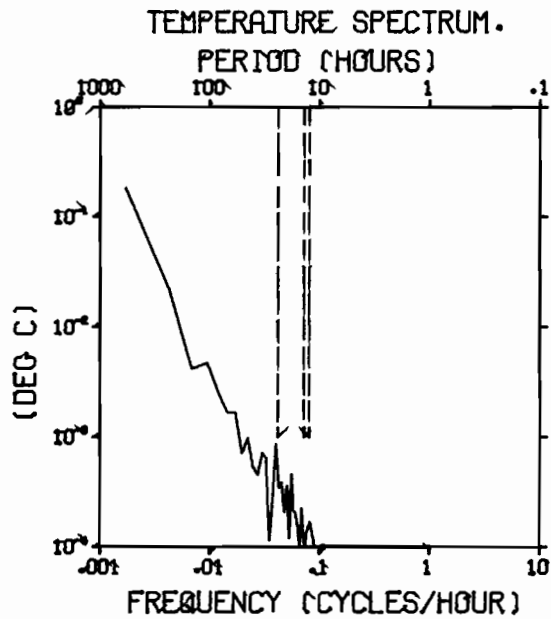
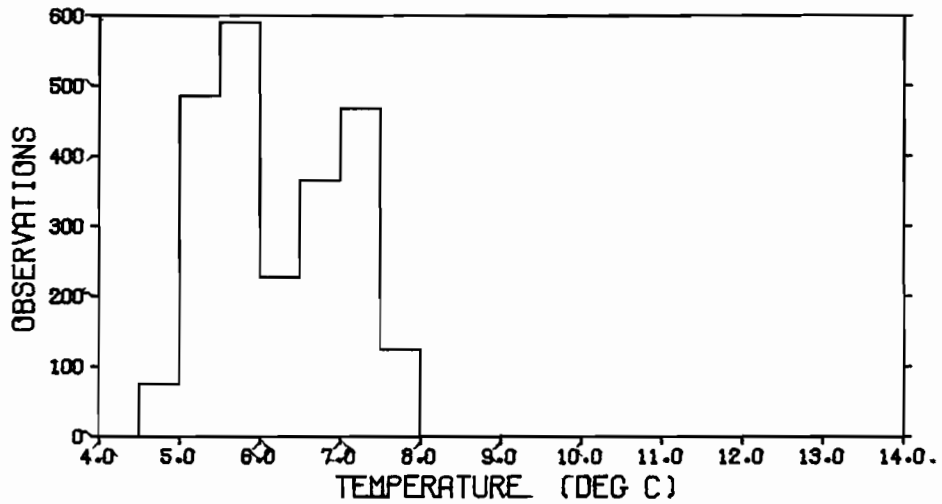
ROTARY SPECTRA.



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 3 of 3 (Continued)

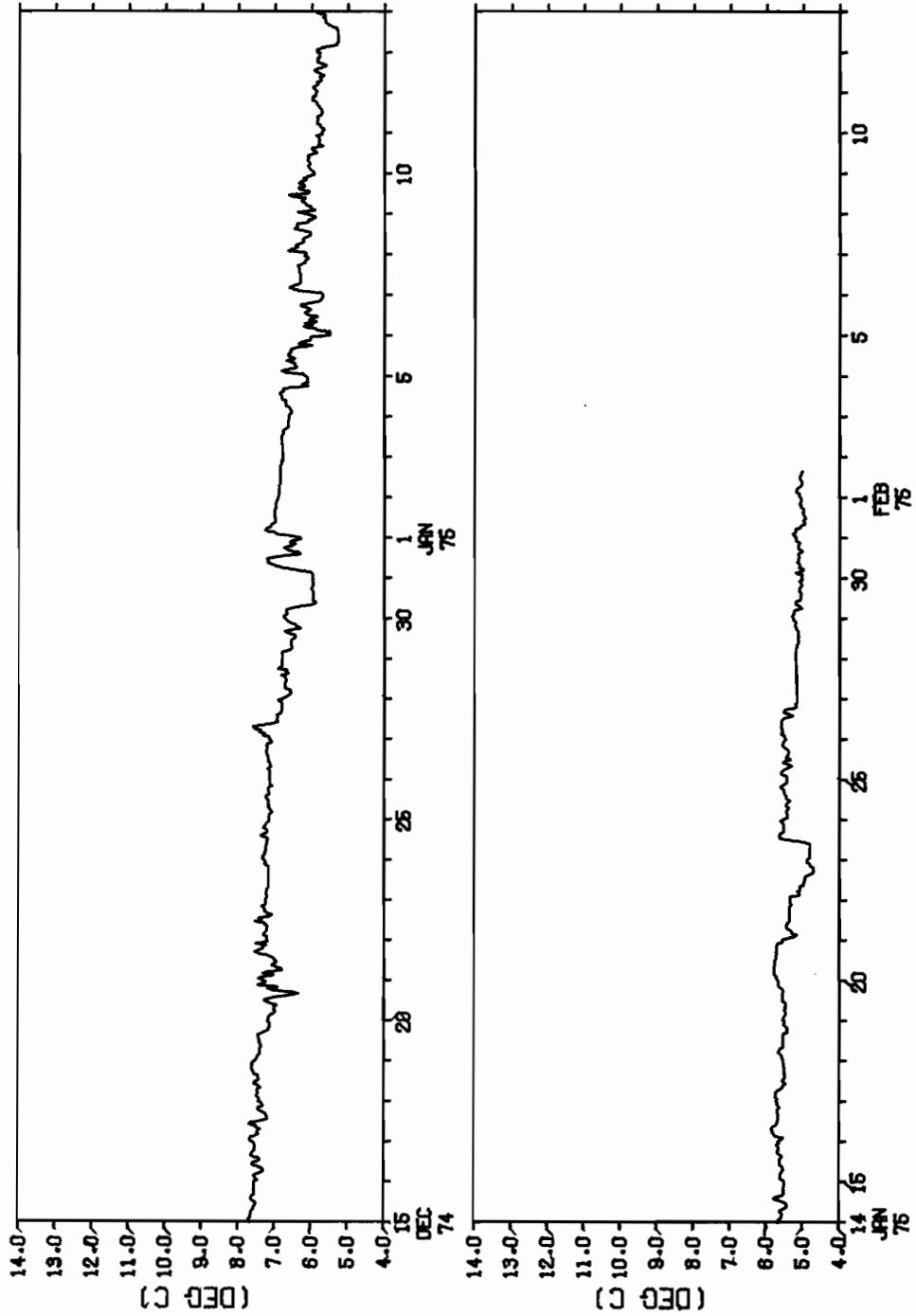
TEMPERATURE STATISTICS LAT ✓ 59 34.4N LONG. 142 10.5W  
 DEPTH 25.0 METERS NUMBER OF OBSERVATIONS = 2337  
 OBSERVATION PERIOD 48.7 DAYS FROM 0000 GMT 15 DEC 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
6.21	.69	.83	.16	1.64	7.77	4.70



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 3 of 3 (Continued)

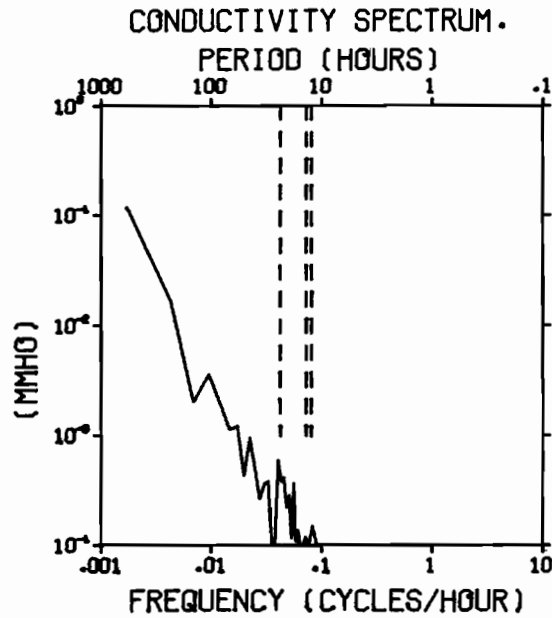
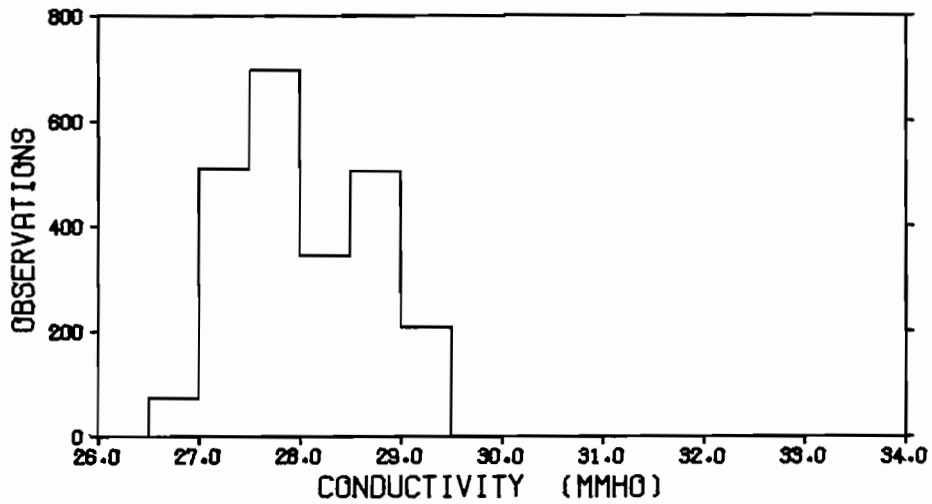
HOURLY AVERAGES OF TEMPERATURE DEPTH 25.0 METERS.



C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 3 of 3 (Continued)

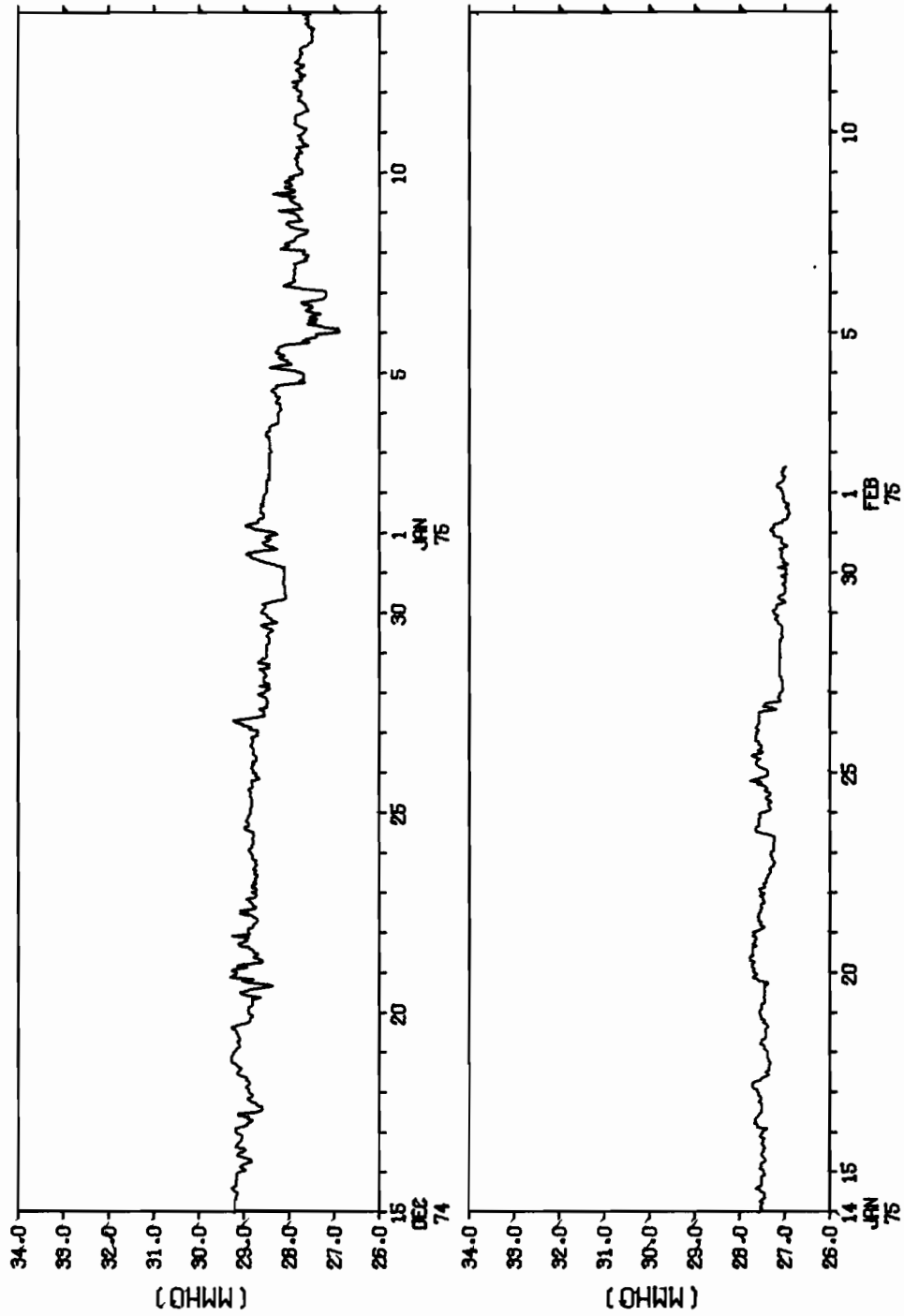
CONDUCTIVITY STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
 DEPTH 25.0 METERS            NUMBER OF OBSERVATIONS = 2337  
 OBSERVATION PERIOD 48.7 DAYS FROM 0000 GMT 15 DEC 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
28.02	.46	.68	.22	1.71	29.48	26.86



C.1. TIME SERIES ANALYSIS Current Meter 598 Part 3 of 3 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 25.0 METERS.

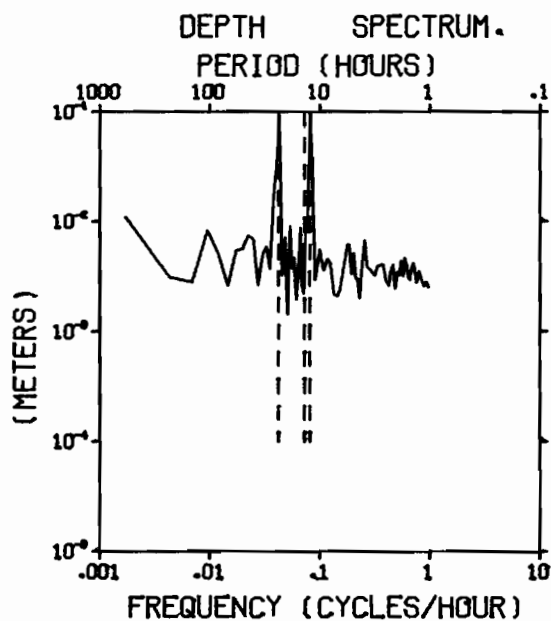
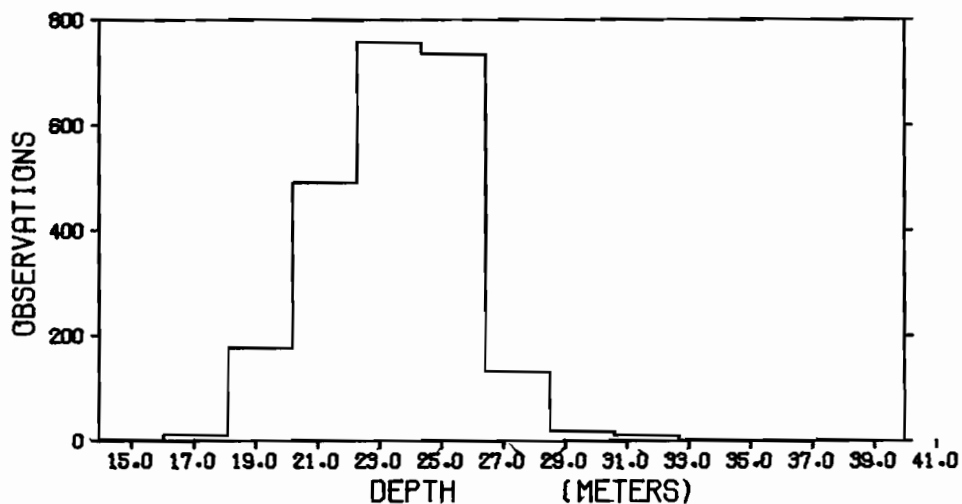




C.1. TIME SERIES ANALYSIS Current Meter 598  
 Part 3 of 3 (Continued)

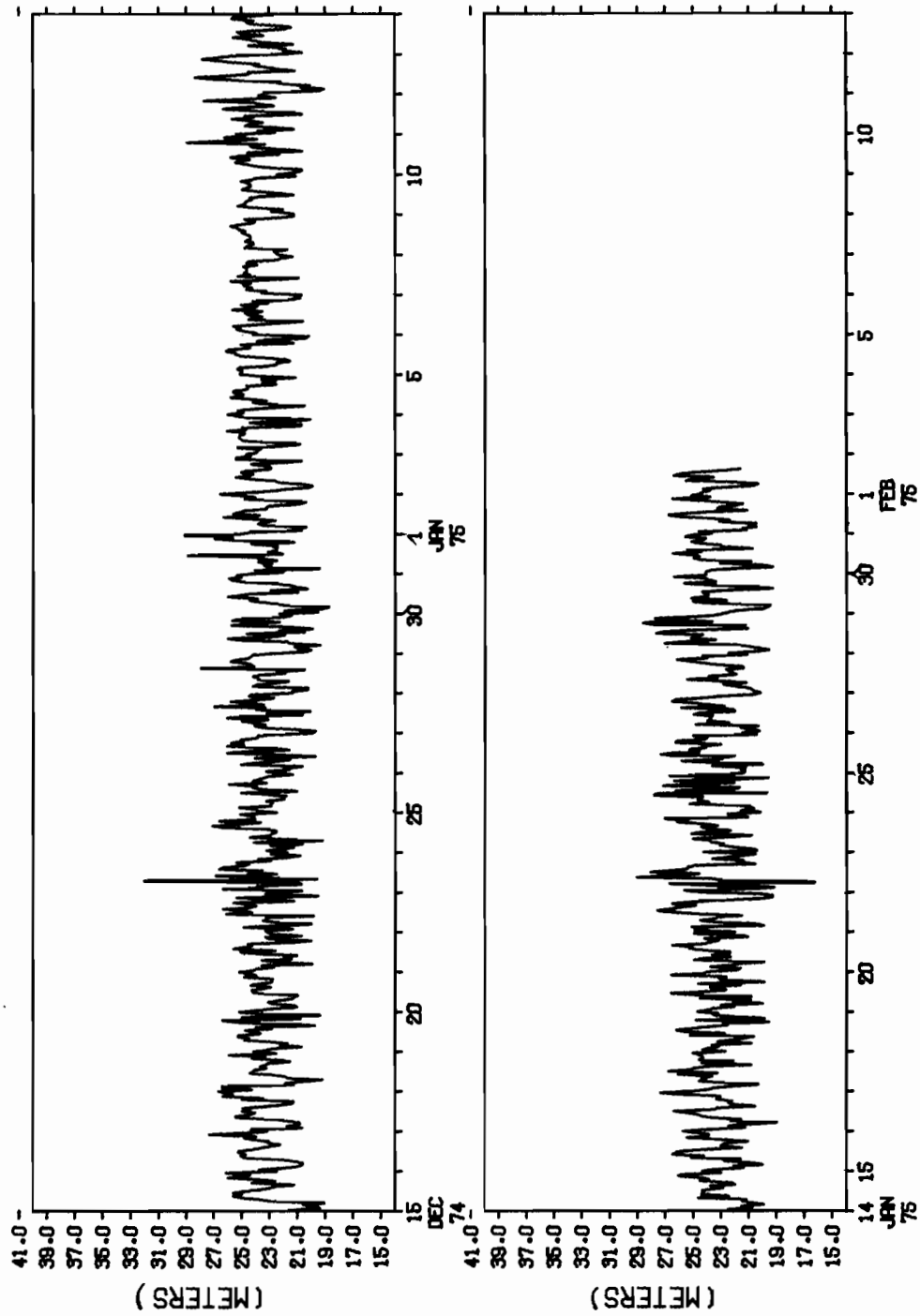
DEPTH STATISTICS LAT. 59.34.4N LONG. 142 10.5W  
 DEPTH 25.0 METERS NUMBER OF OBSERVATIONS = 2337  
 OBSERVATION PERIOD 48.7 DAYS FROM 0000 GMT 15 DEC 74

MEAN (METER)	VARIANCE (METERS)	ST-DEV (METER)	SKEW	KURT	MAX (METER)	MIN (METER)
24.15	5.50	2.35	1.36	17.39	50.56	15.50



C.1. TIME SERIES ANALYSIS Current Meter-598 Part 3 of 3 (Continued)

HOURLY AVERAGES OF DEPTH 25.0 METERS.

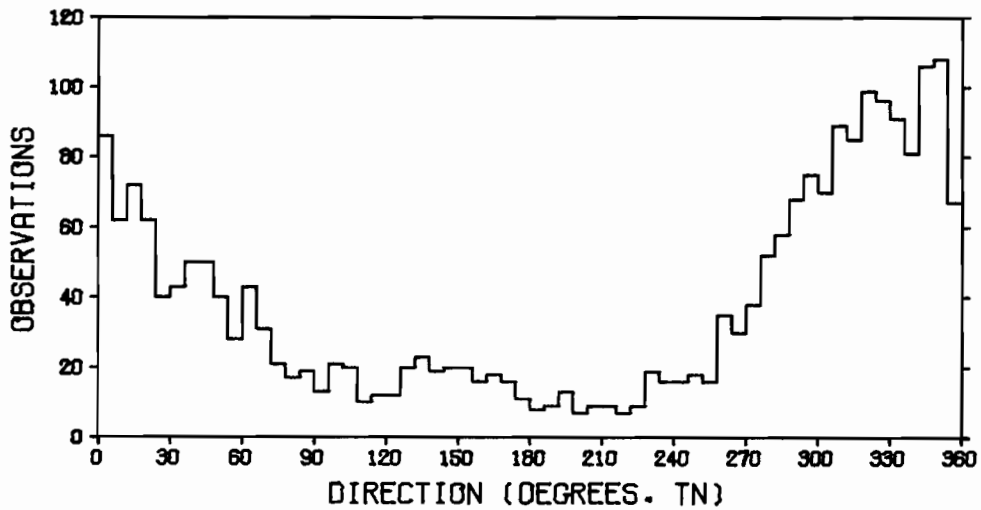
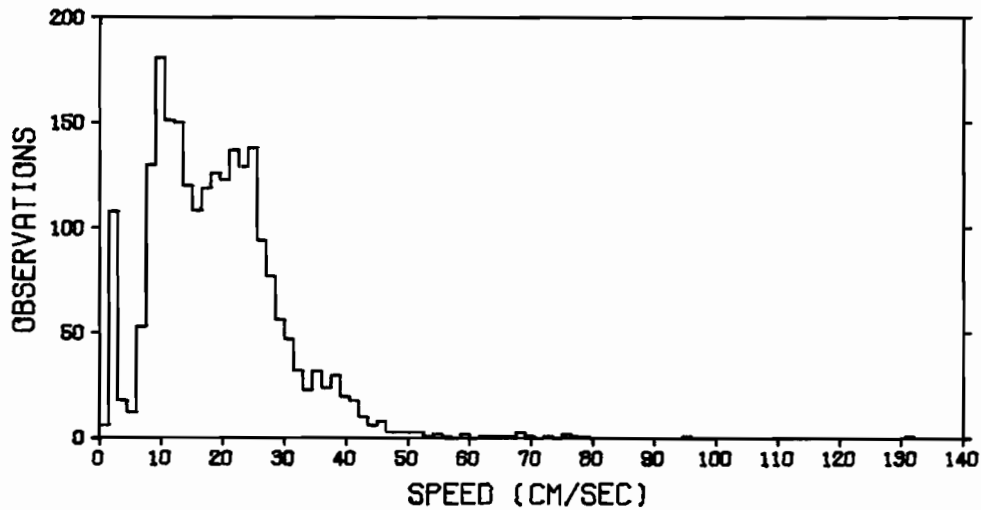


C.2. TIME SERIES ANALYSIS Current Meter 617 Nominal Depth: 50m  
 Part 1 of 1; 17 August - 5 October 1974

Mooring Designation NEGOA 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature

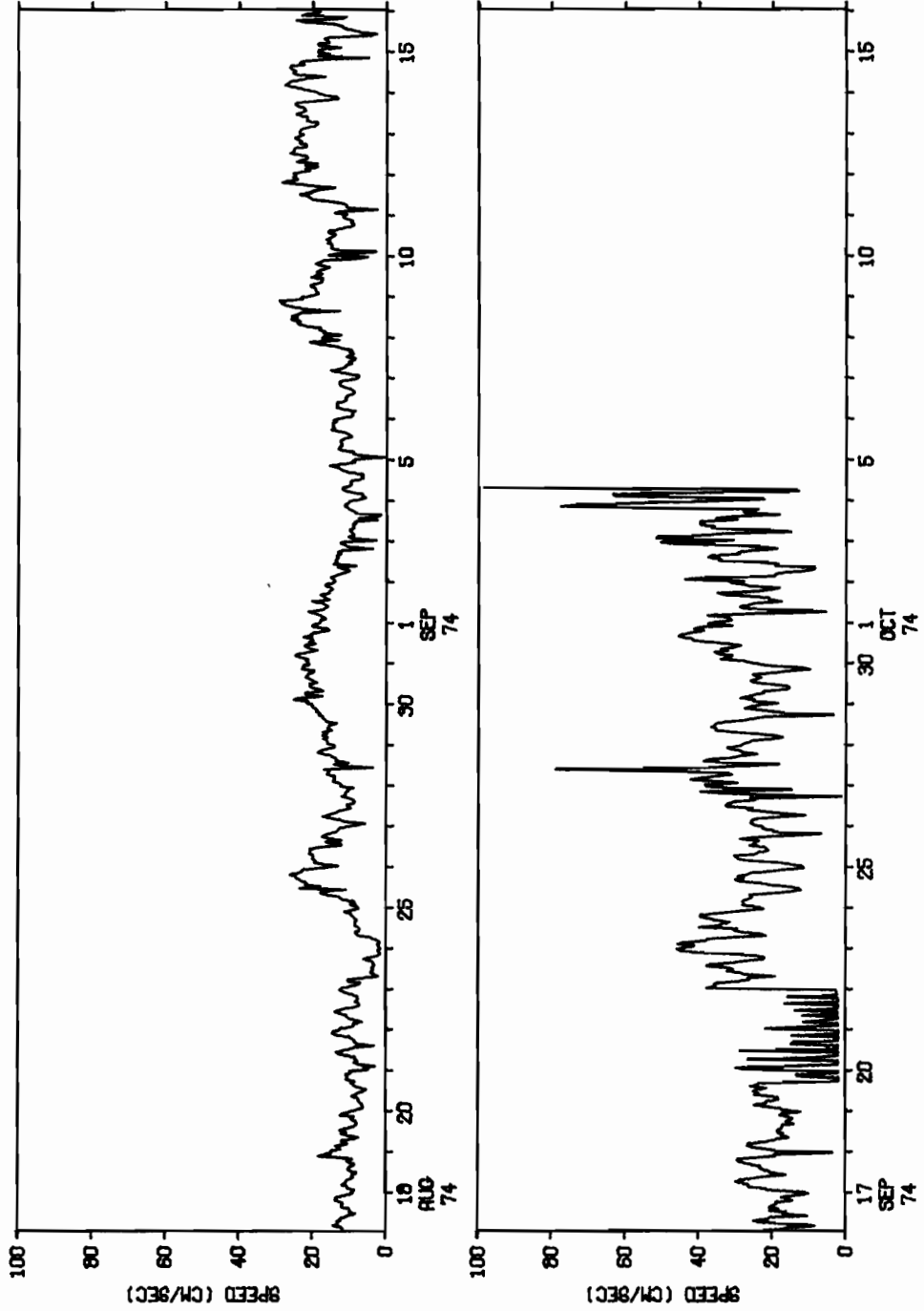
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	19.03	117.22	10.83	1.608	11.08	130.65	1.50
U	-4.16	168.92	13.00	-.386	4.71	44.93	-90.91
V	10.14	190.39	13.80	.421	4.64	98.21	-28.38

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



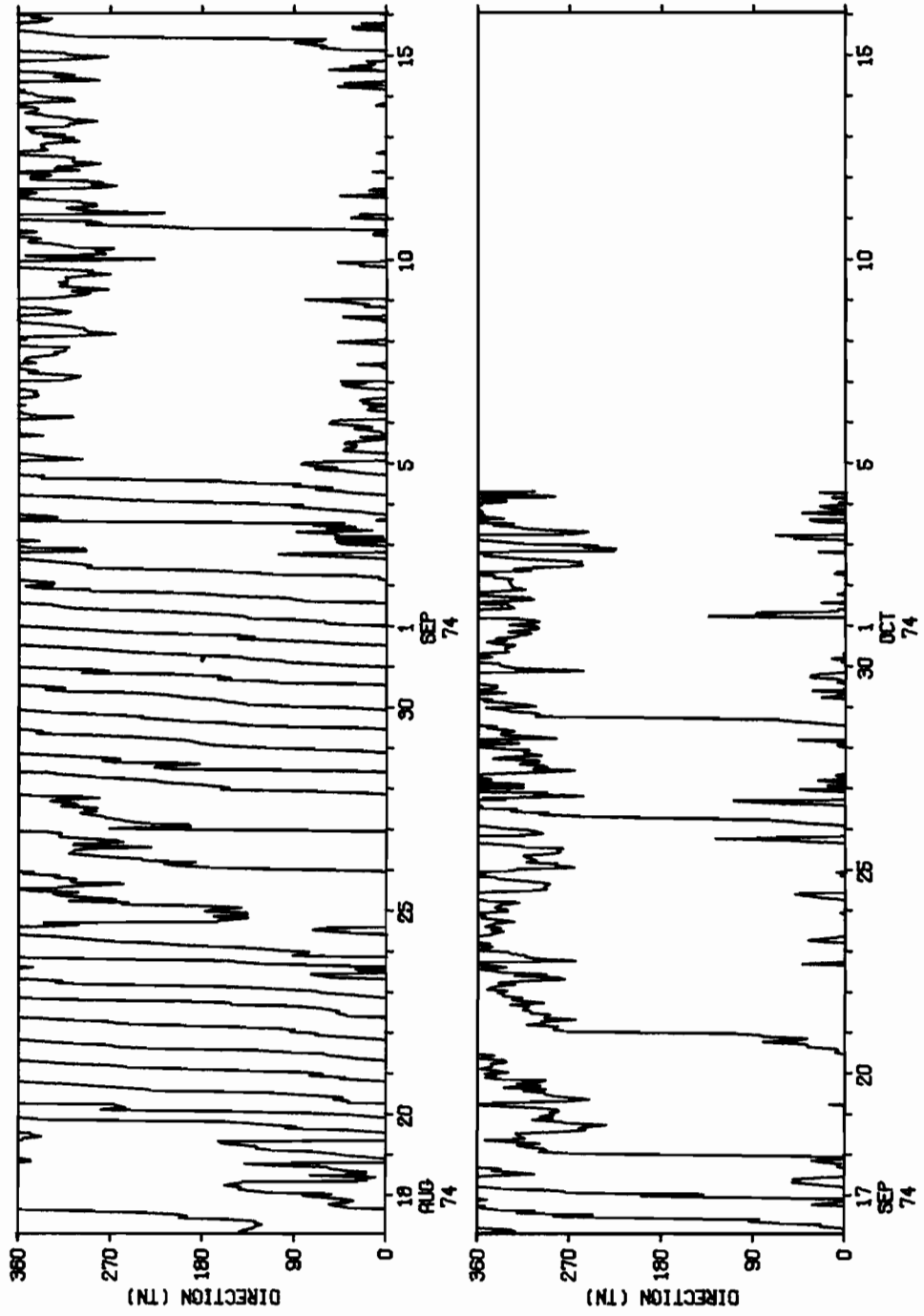
C.2. TIME SERIES ANALYSIS Current Meter 617 Part 1 of 1 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 50.0 METERS.



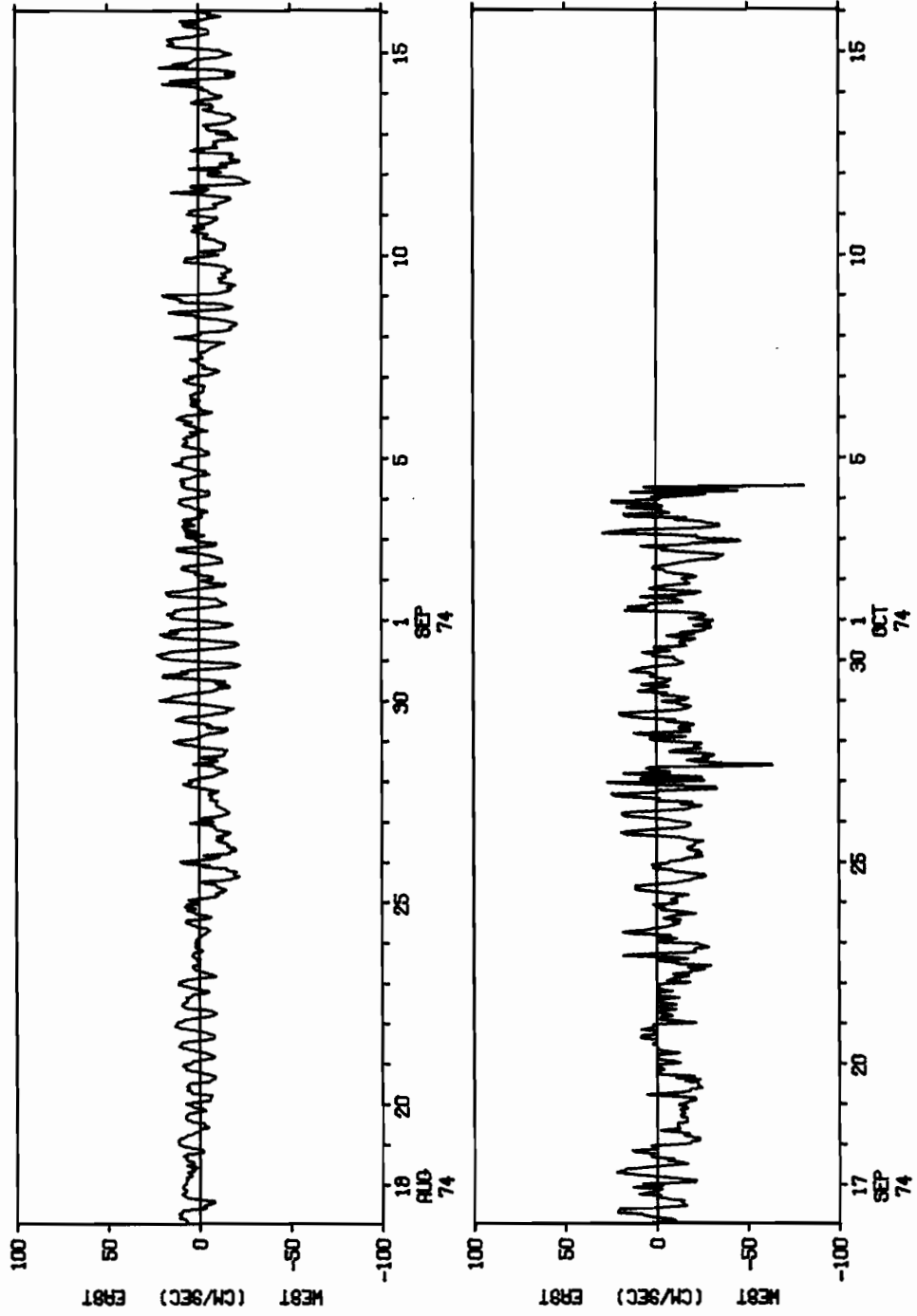
C.2. TIME SERIES ANALYSIS Current Meter 617 Part 1 of 1 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 50.0 METERS.



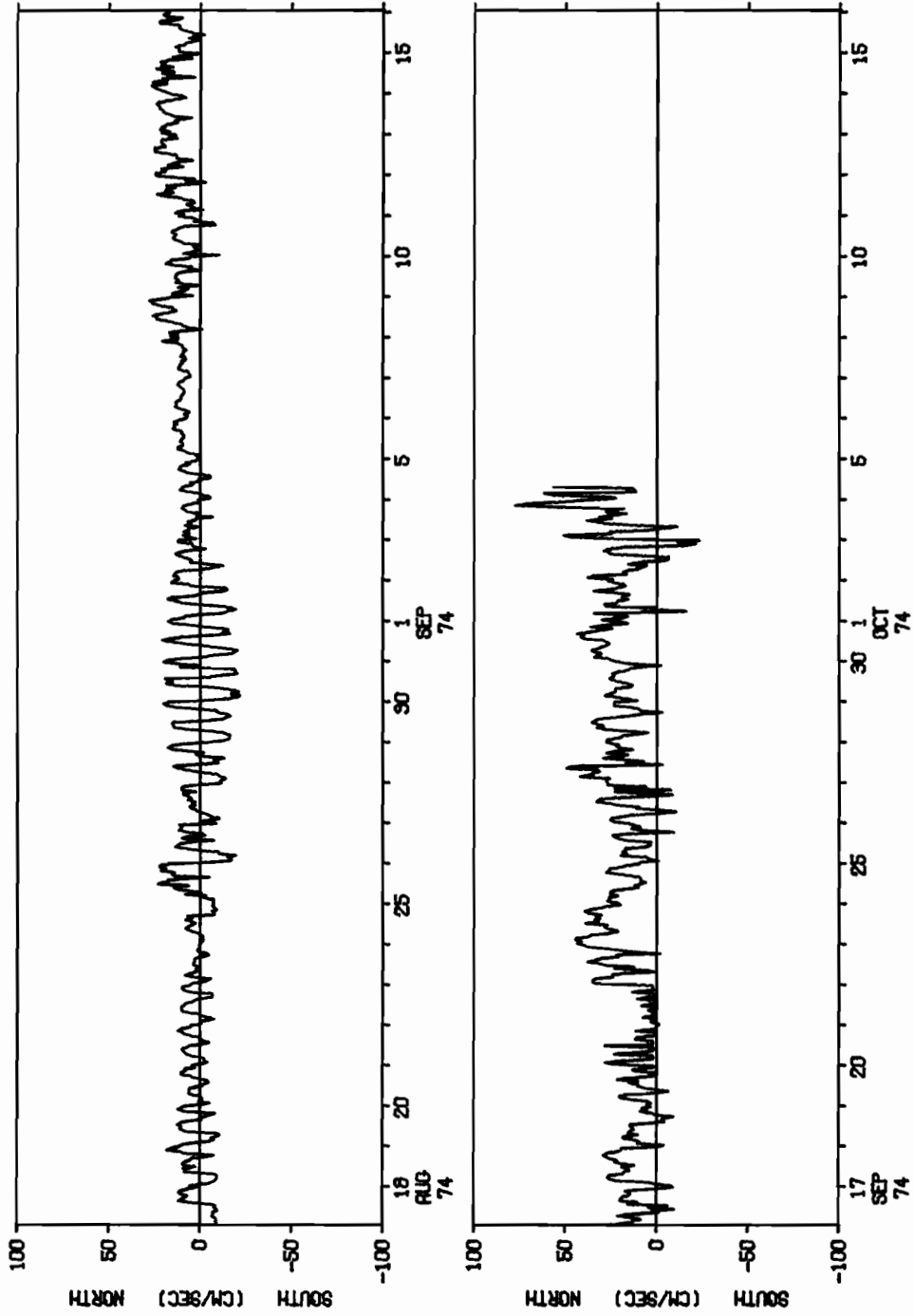
C.2. TIME SERIES ANALYSIS Current Meter 617 Part 1 of 1 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.



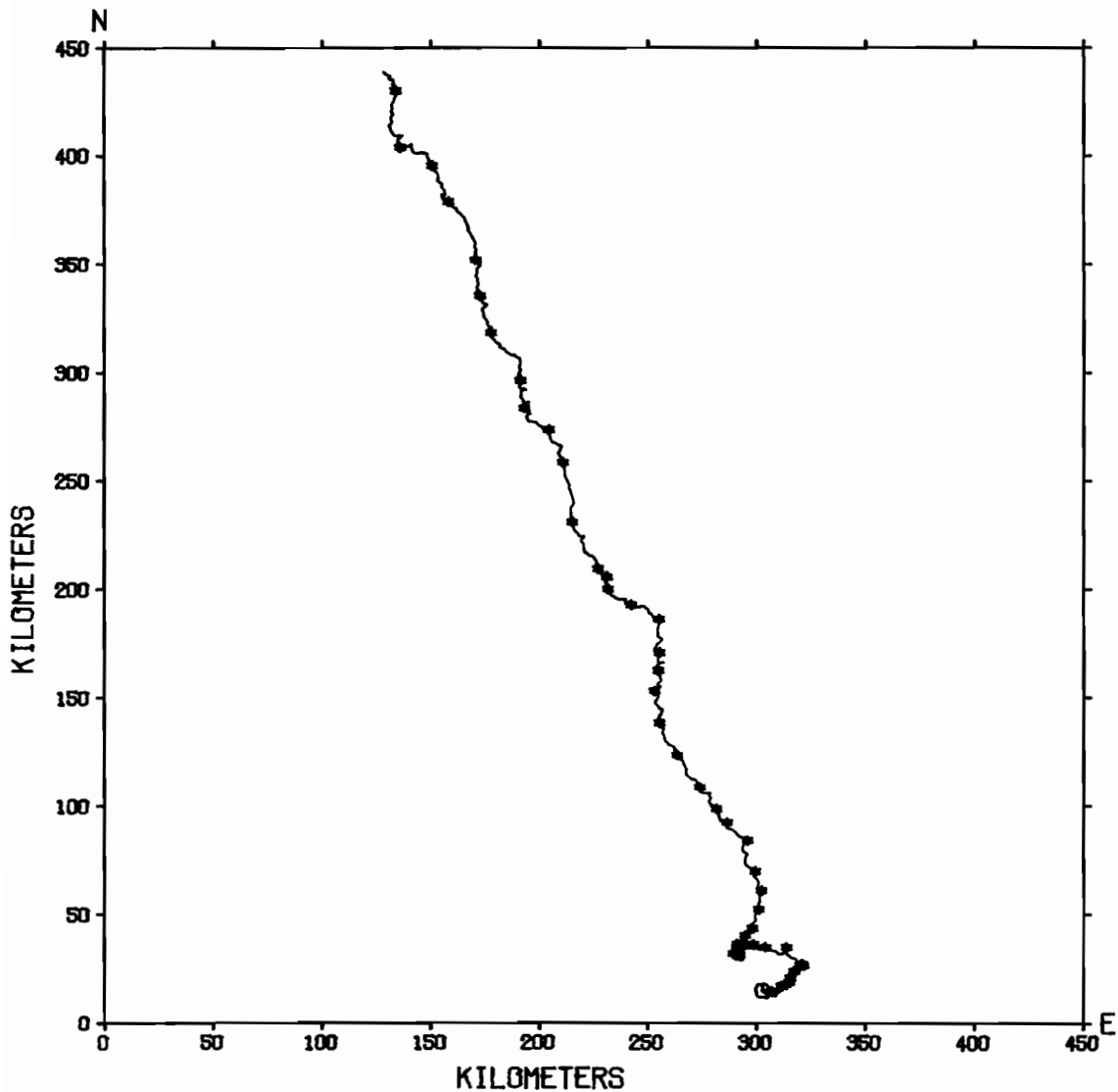
C.2. TIME SERIES ANALYSIS Current Meter 617 Part 1 of 1 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 50.0 METERS.



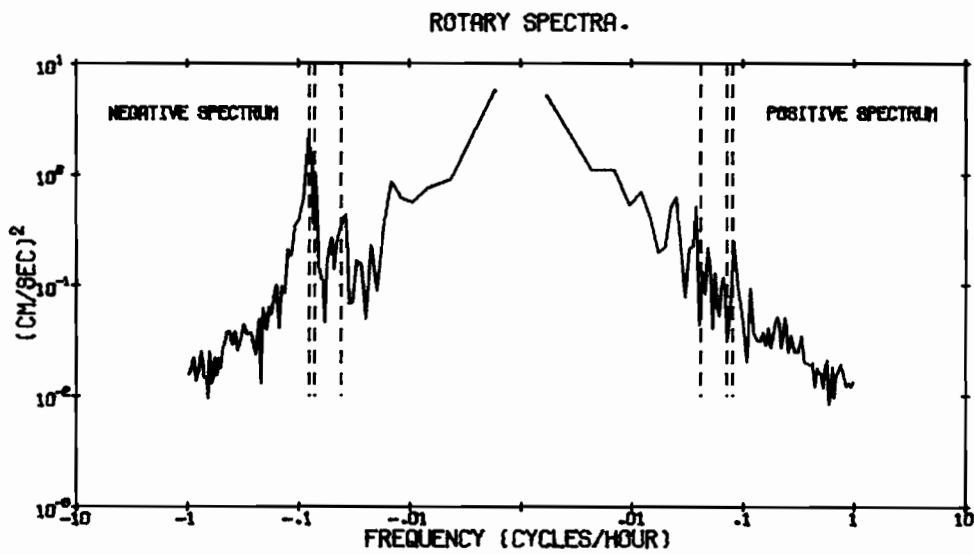
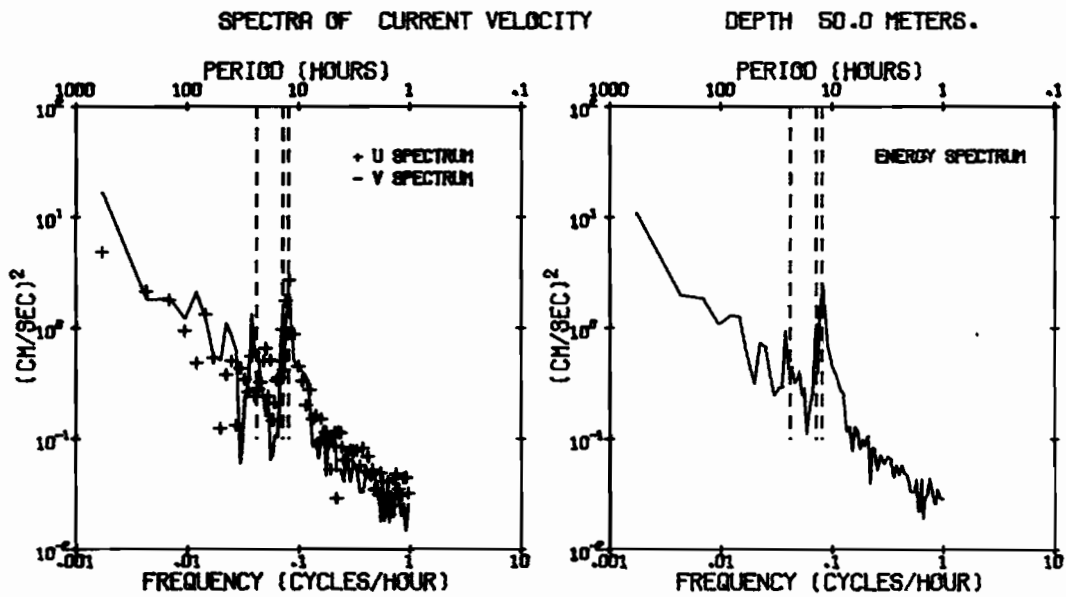
C.2. TIME SERIES ANALYSIS Current Meter 617  
Part 1 of 1 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEG0A - 62A  
OBSERVATION PERIOD 48.3 DAYS FROM 0102 GMT 17 AUG 74.  
DEPTH 50.0 METERS.





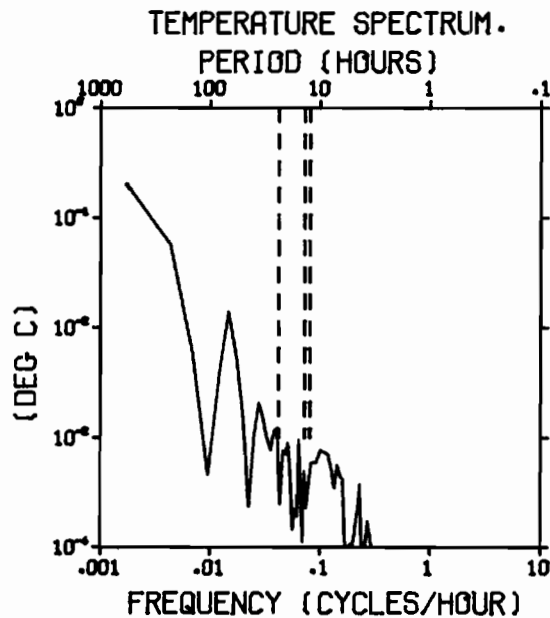
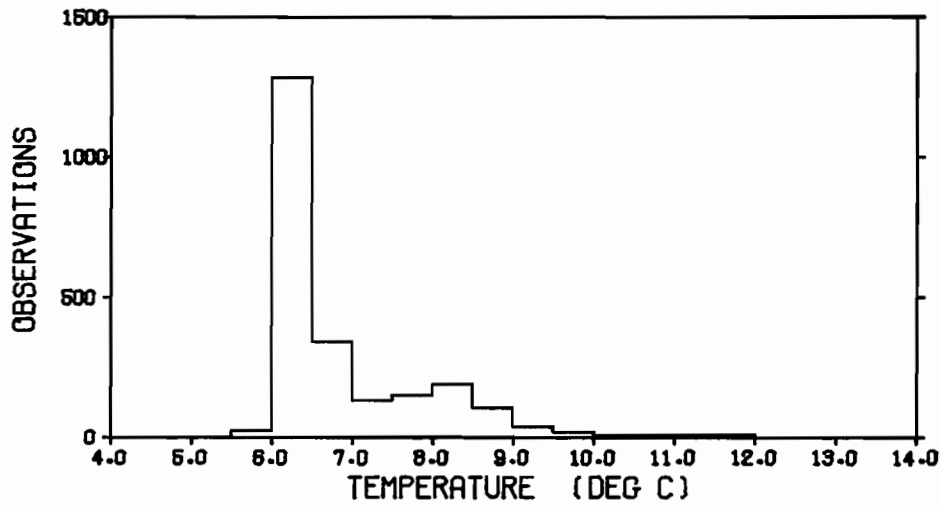
C.2. TIME SERIES ANALYSIS Current Meter 617  
Part 1 of 1 (Continued)



C.2. TIME SERIES ANALYSIS Current Meter 617  
 Part 1 of 1 (Continued)

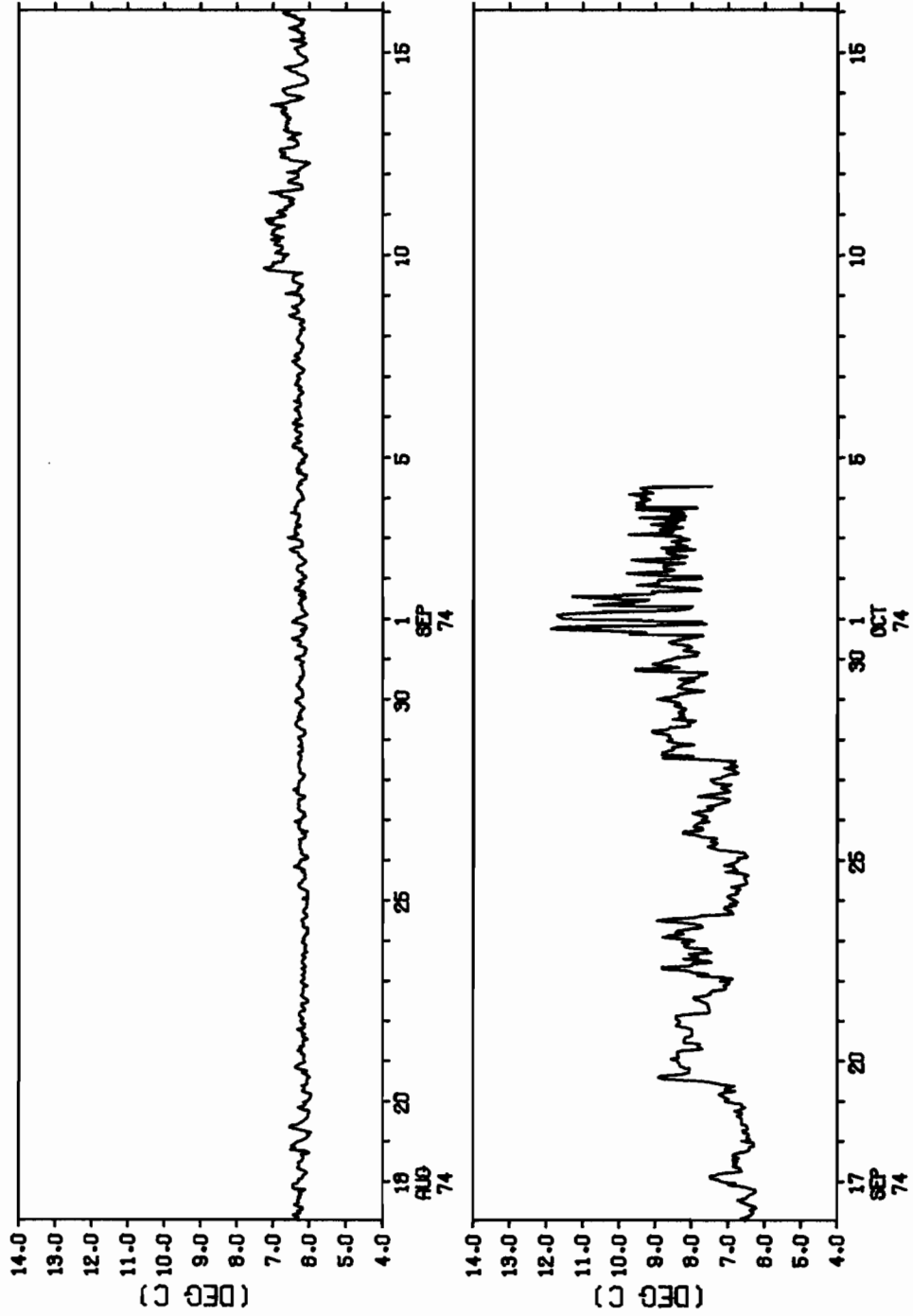
TEMPERATURE STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
 DEPTH 50.0 METERS            NUMBER OF OBSERVATIONS = 2319  
 OBSERVATION PERIOD 48.3 DAYS FROM 0102 GMT 17 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKREW	KURT	MAX (DEG C)	MIN (DEG C)
6.89	1.01	1.01	1.78	6.45	11.89	5.90



C.2. TIME SERIES ANALYSIS Current Meter 617 Part 1 of 1 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 50.0 METERS.

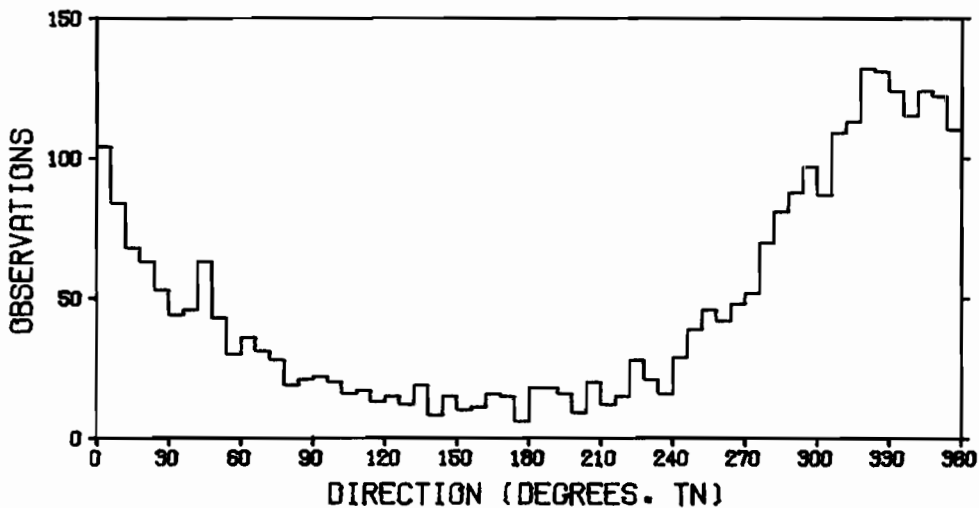
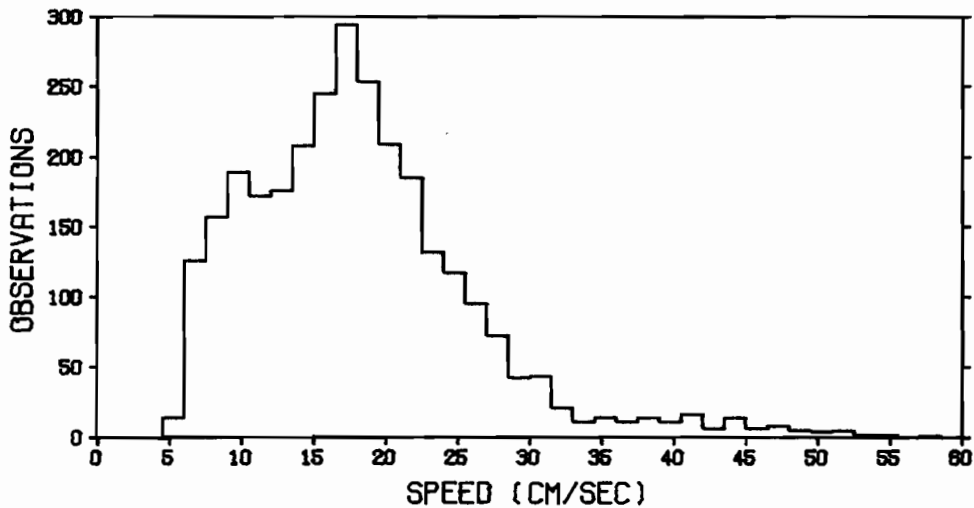


C.3. TIME SERIES ANALYSIS Current Meter 616 Nominal Depth: 100m  
 Part 1 of 2; 17 August - 16 November 1974

Mooring Designation NEGOA 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature

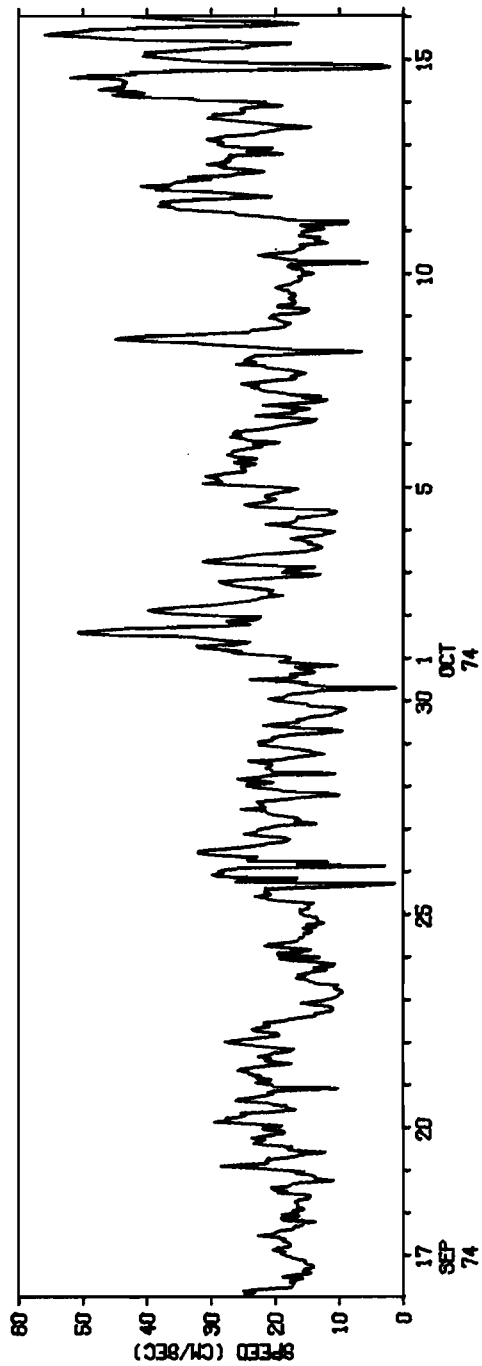
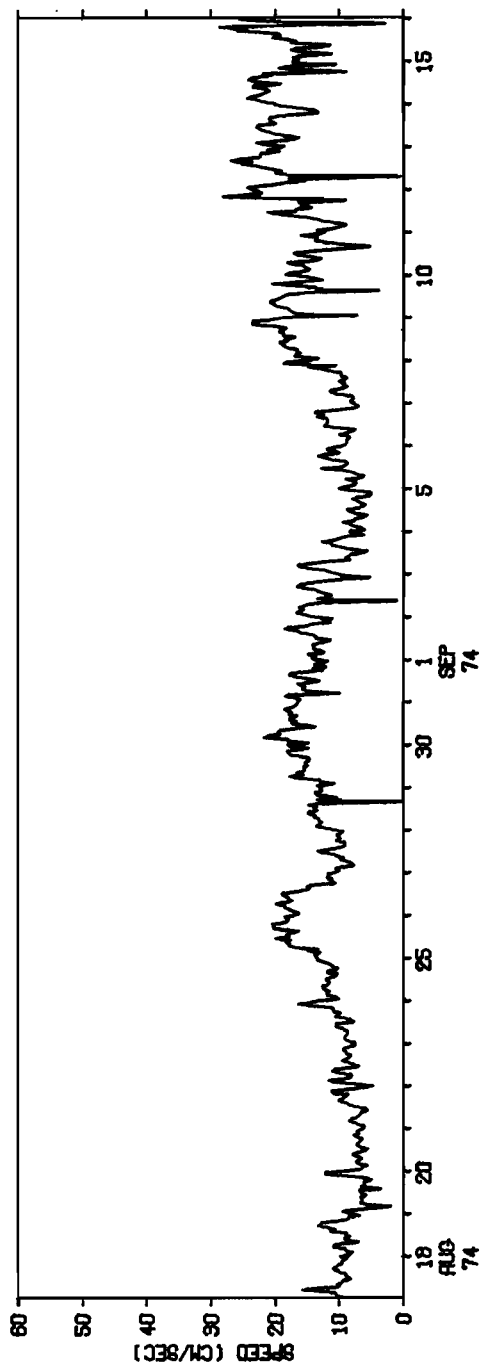
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	18.10	63.30	7.96	1.233	5.54	57.26	4.92
U	-4.92	135.84	11.65	.192	2.91	40.27	-46.04
V	9.39	142.61	11.94	.027	3.39	54.73	-26.52

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



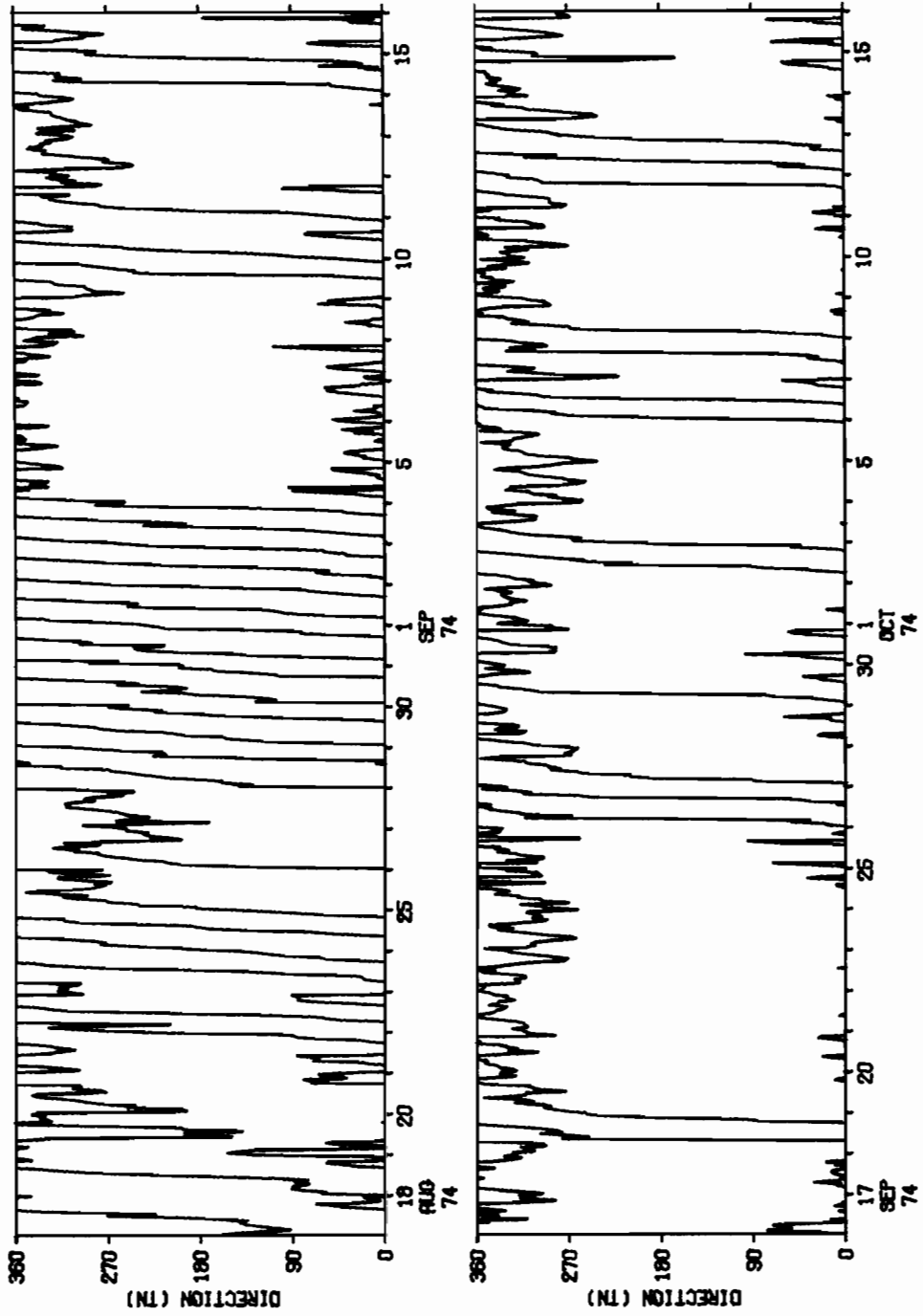
C.3. TIME SERIES ANALYSIS Current Meter 616 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 100.0 METERS.



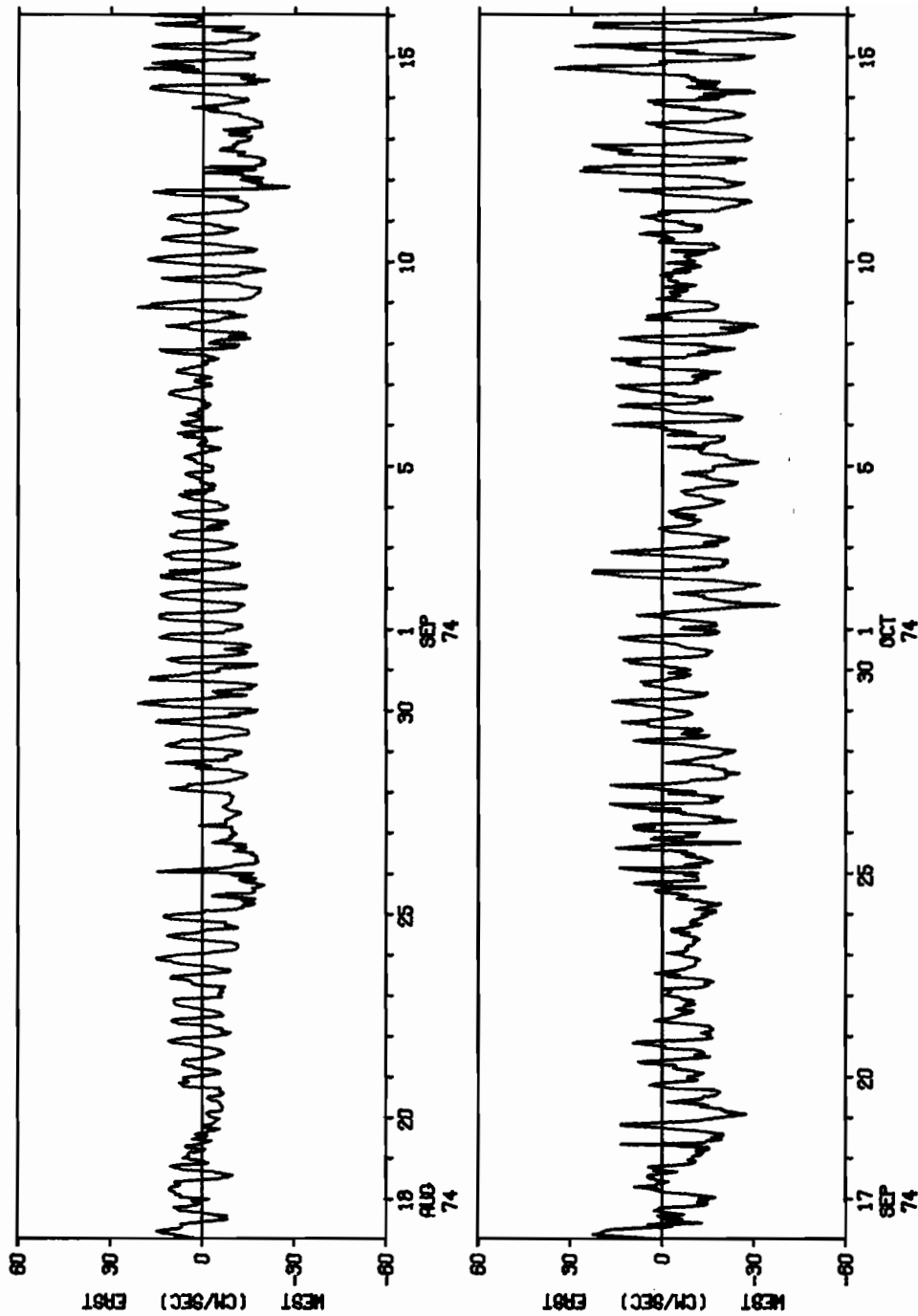
C.3. TIME SERIES ANALYSIS Current Meter 616 Part 1 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 100.0 METERS.



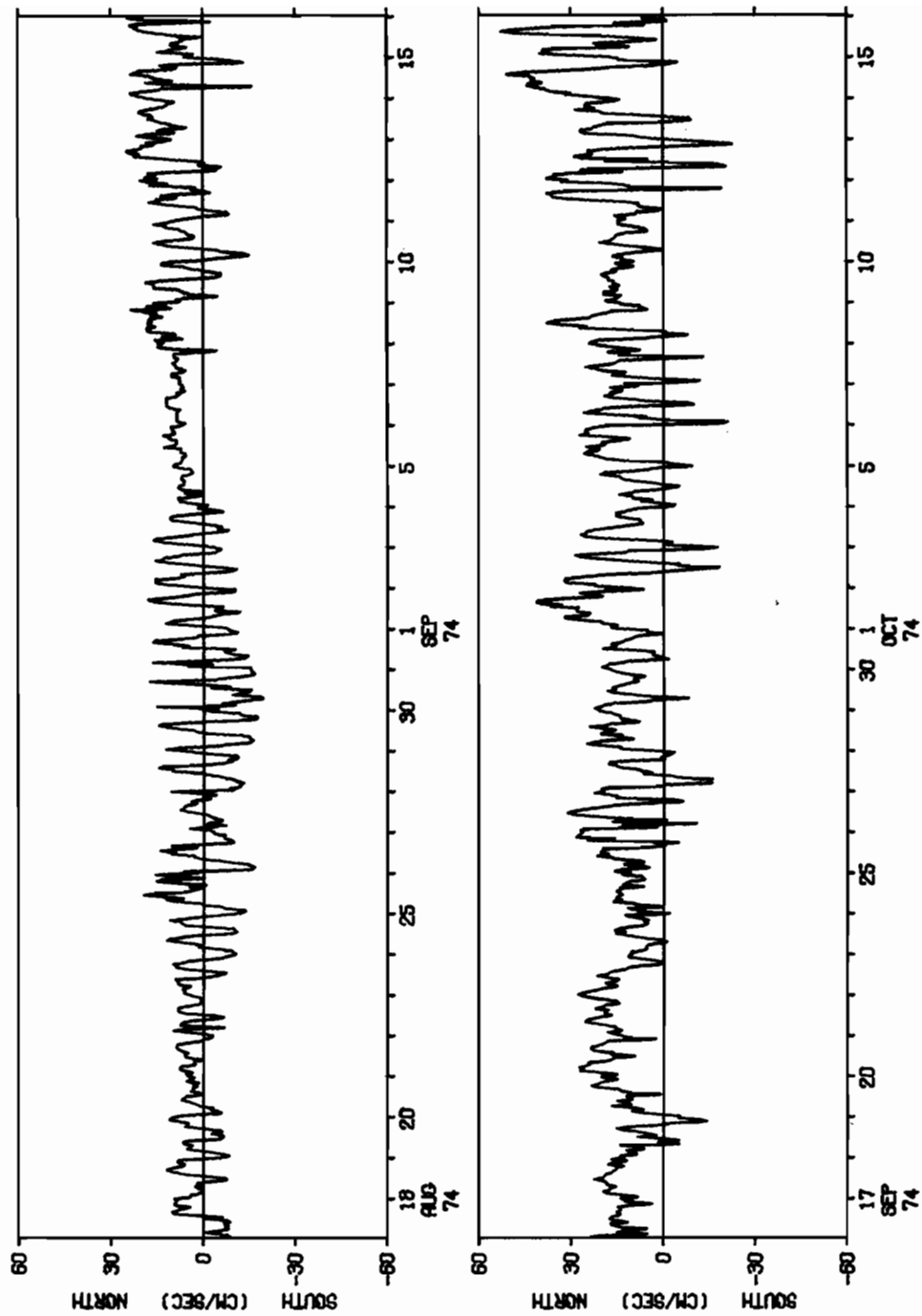
C.3. TIME SERIES ANALYSIS Current Meter 616 Part 1 of 2 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.



C.3. TIME SERIES ANALYSIS Current Meter 616 Part 1 of 2 (Continued)

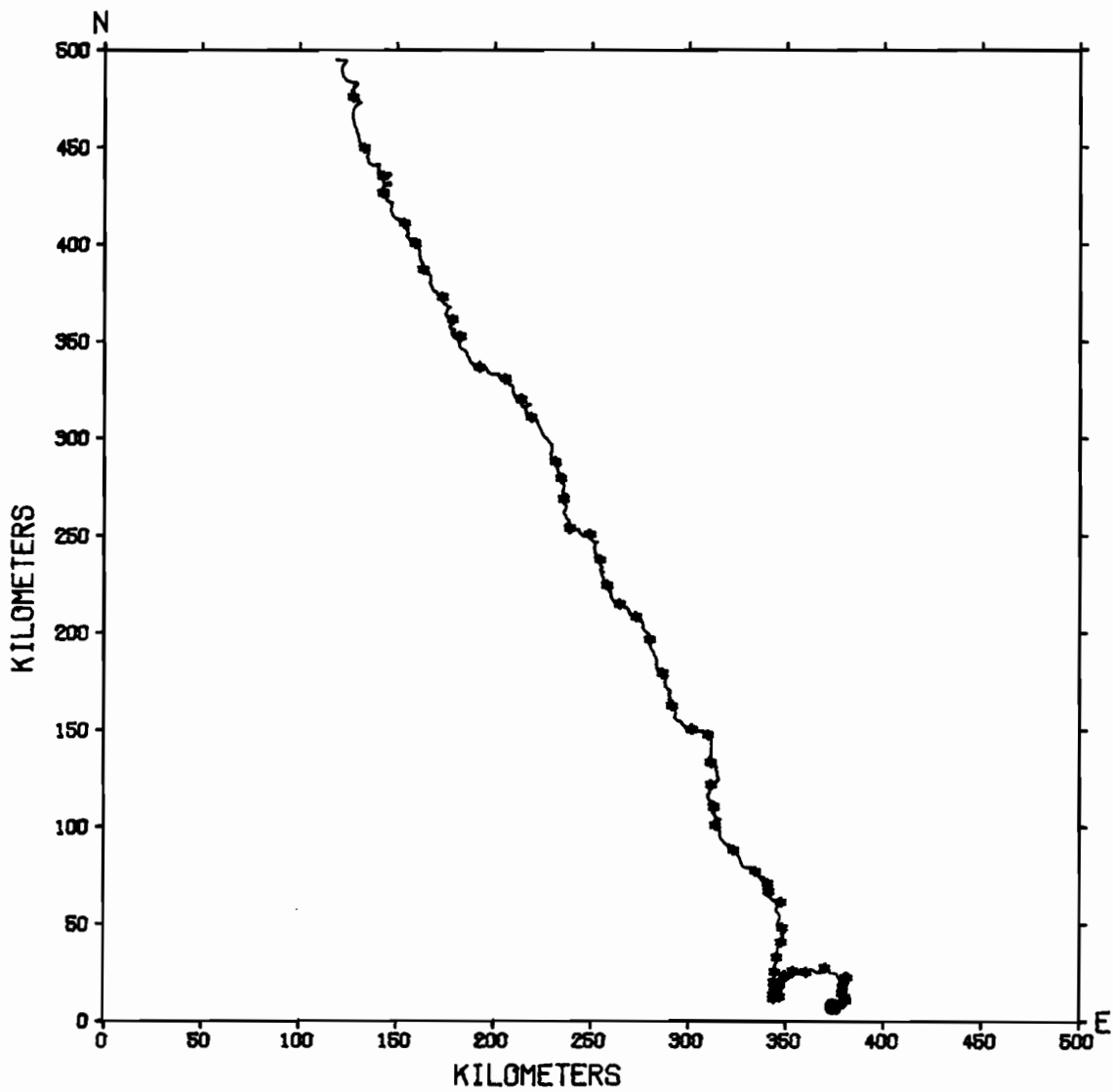
HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.



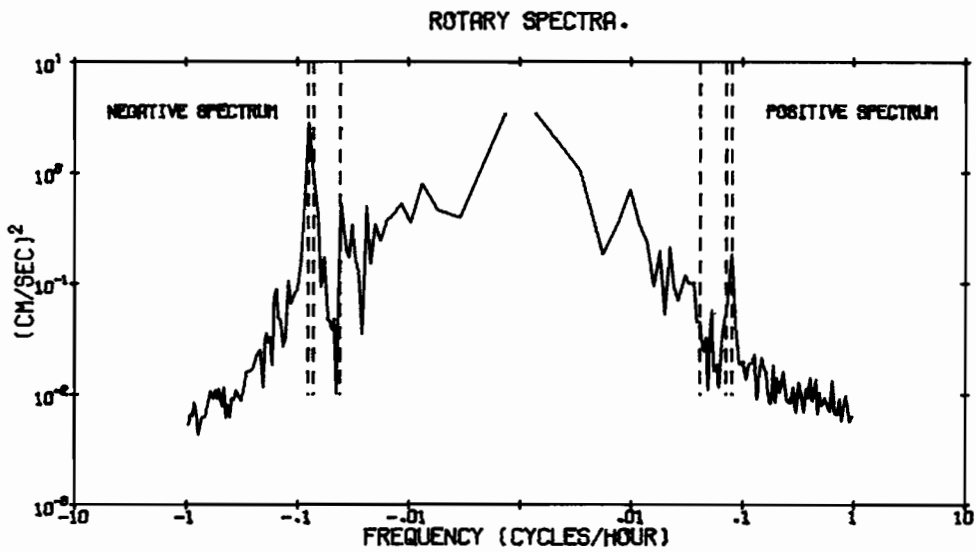
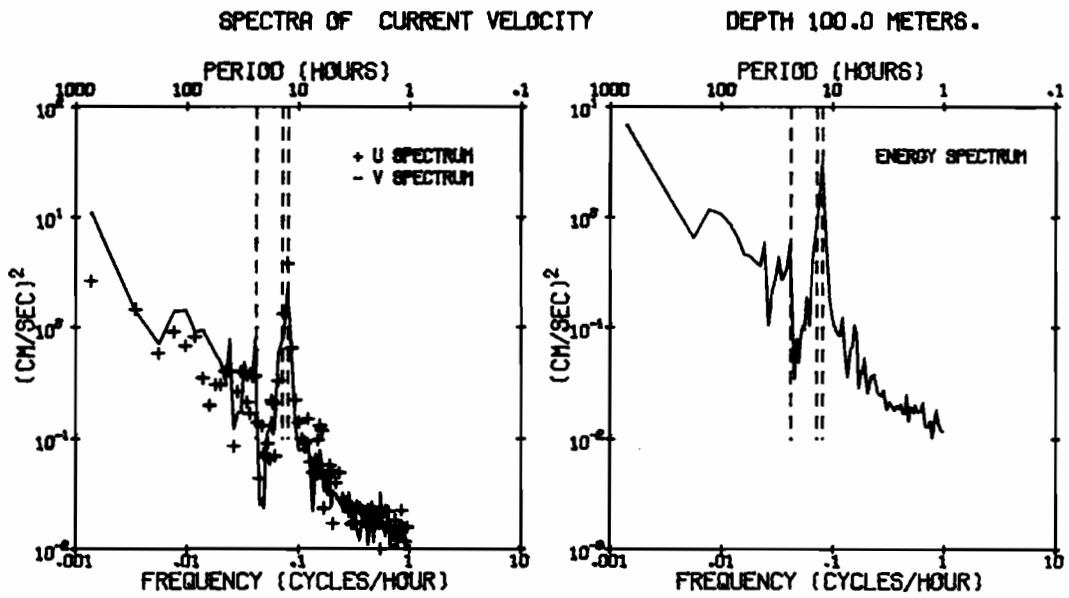


C.3. TIME SERIES ANALYSIS Current Meter 616  
Part 1 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEG0A - 62A  
OBSERVATION PERIOD 60.0 DAYS FROM 0034 GMT 17 AUG 74.  
DEPTH 100.0 METERS.



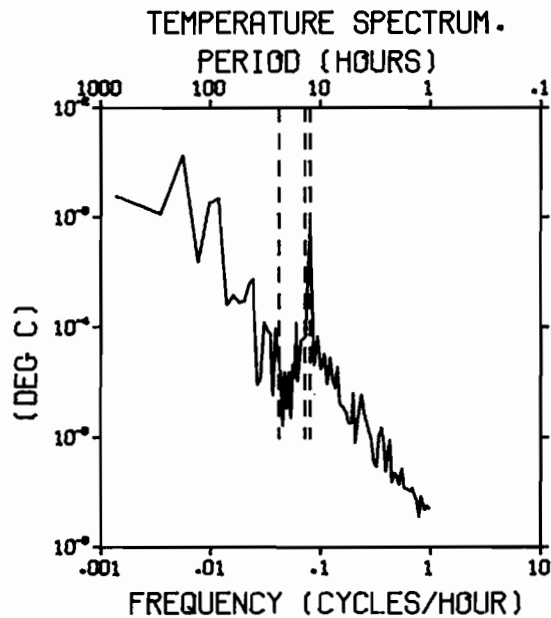
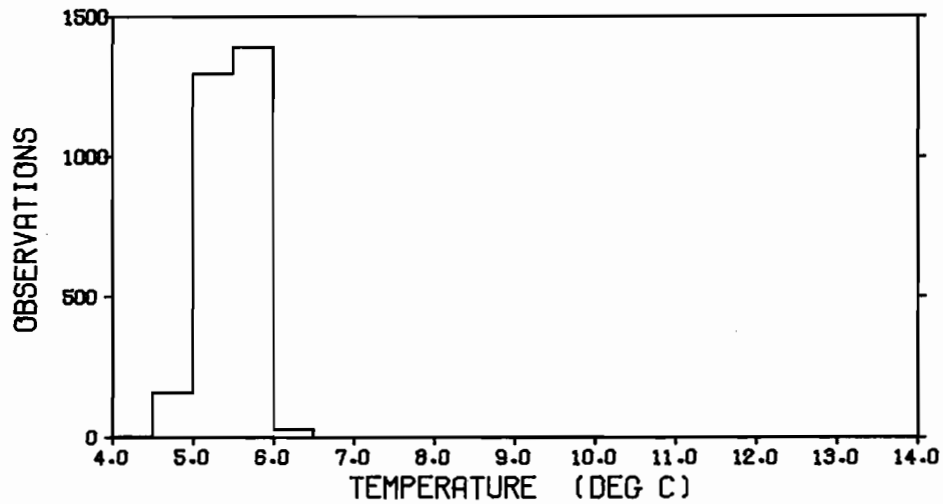
C.3. TIME SERIES ANALYSIS Current Meter 616  
 Part 1 of 2 (Continued)



C.3. TIME SERIES ANALYSIS Current Meter 616  
Part 1 of 2 (Continued)

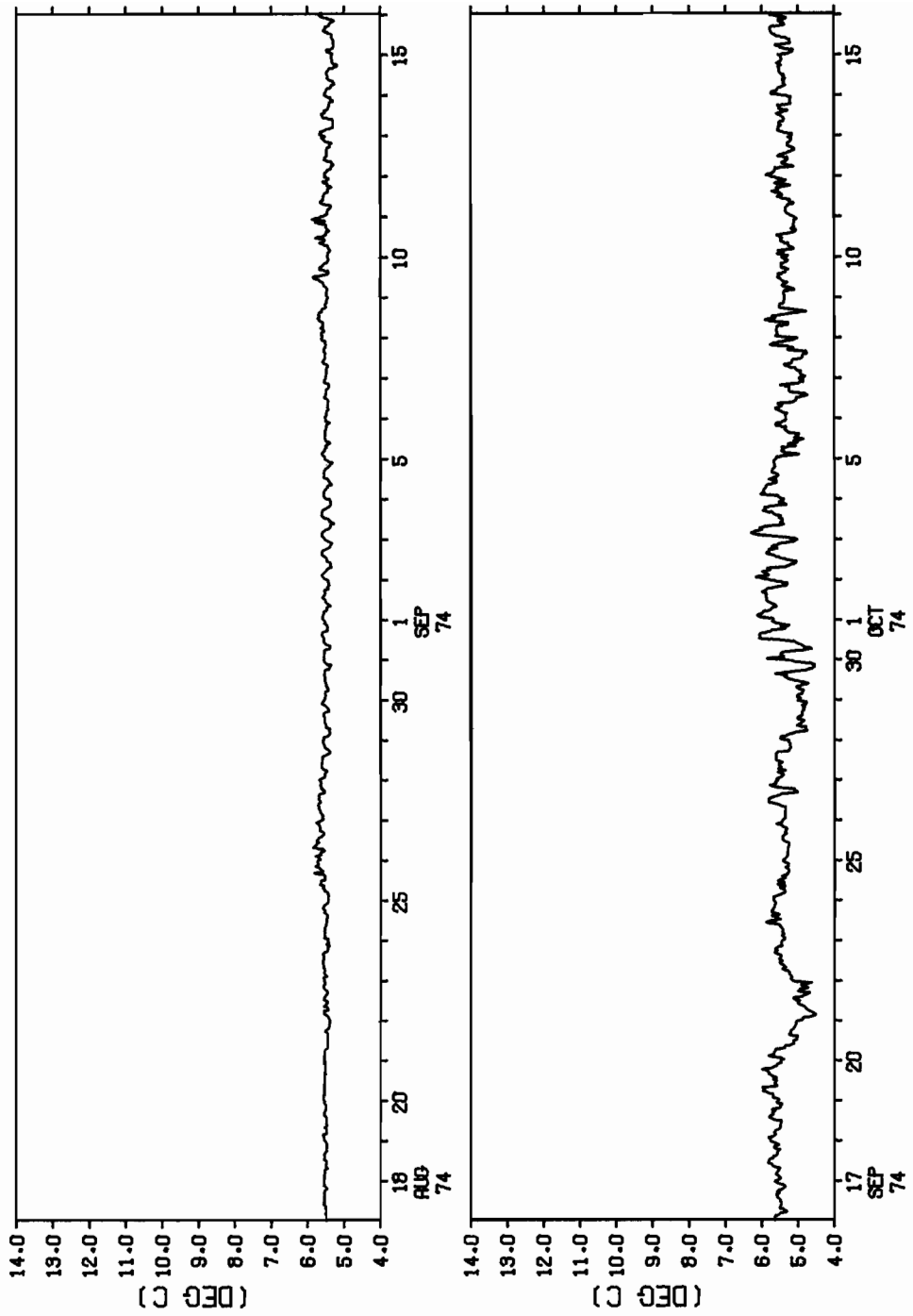
TEMPERATURE STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
DEPTH 100.0 METERS          NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 0034 GMT 17 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
5.47	.06	.24	-.83	5.40	6.49	4.47



C.3. TIME SERIES ANALYSIS Current Meter 616 Part 1 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 100.0 METERS.

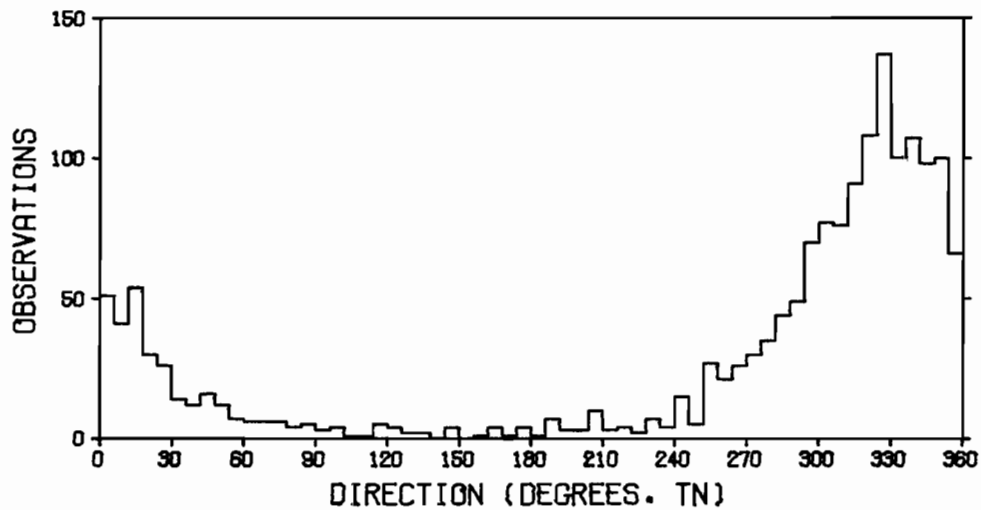
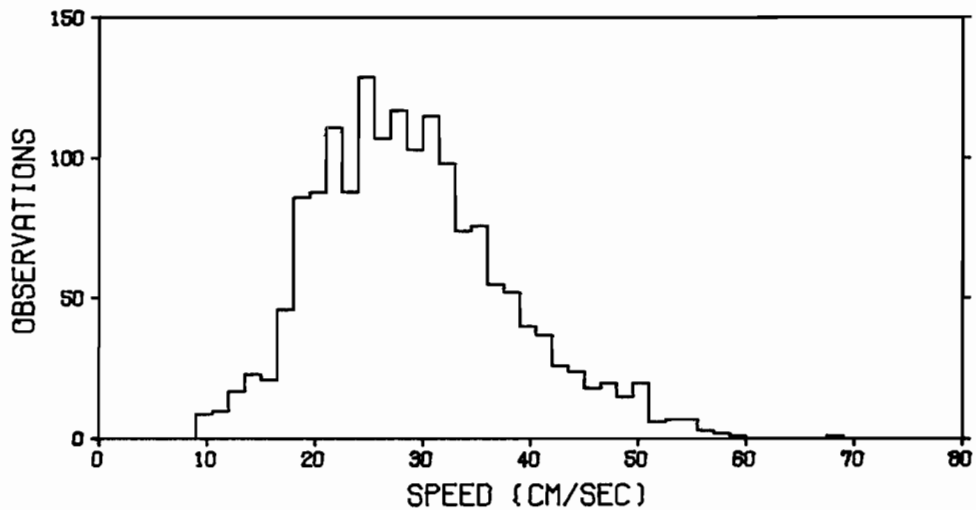


C.3. TIME SERIES ANALYSIS Current Meter 616 Nominal Depth: 100m  
 Part 2 of 2; 16 October - 20 November 1974

Mooring Designation NEG0A 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature

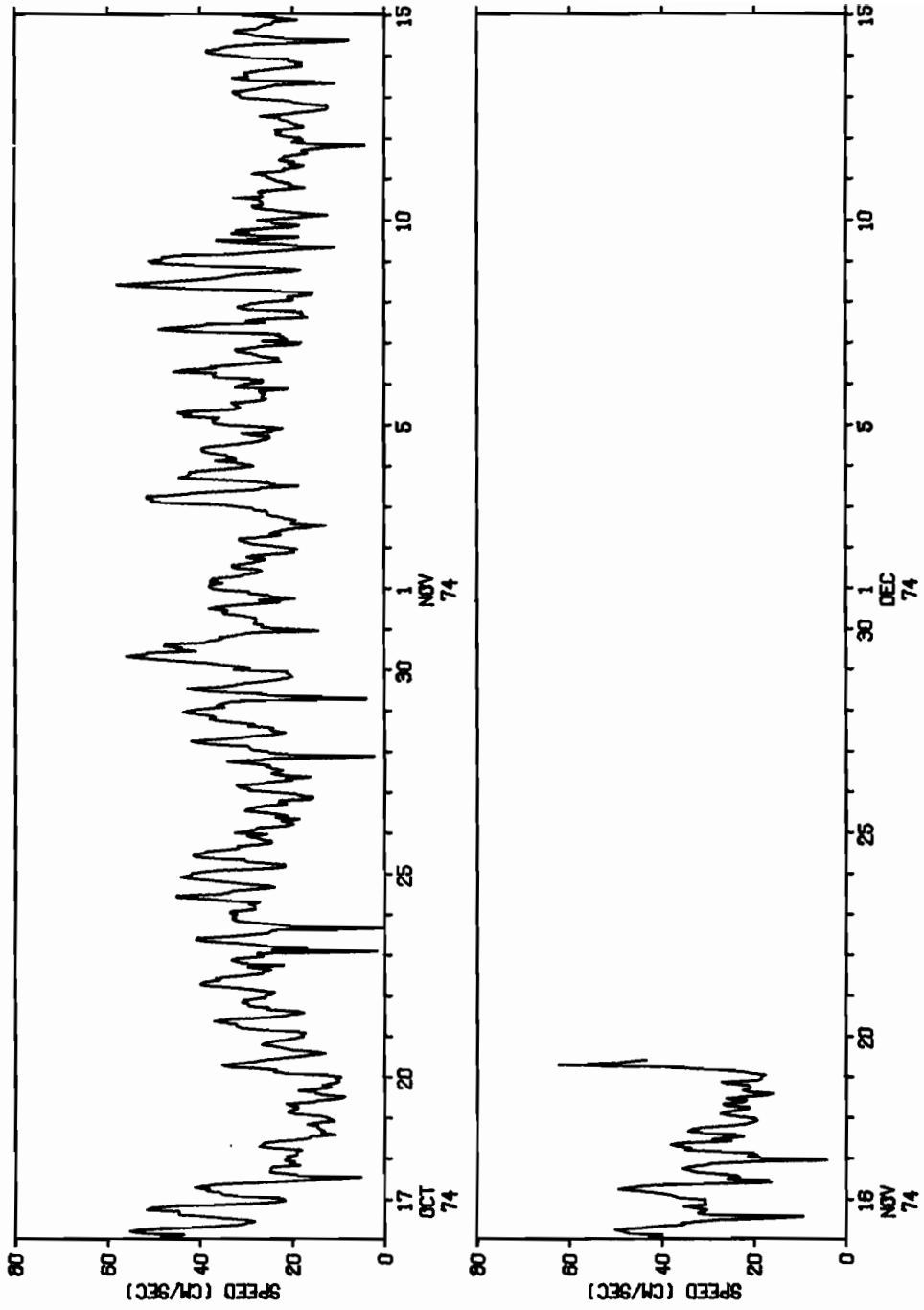
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	29.13	80.61	8.98	.592	3.30	68.19	9.43
U	-11.60	203.61	14.27	.628	3.10	43.66	-45.44
V	19.36	215.81	14.69	-.569	3.57	67.32	-28.75

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



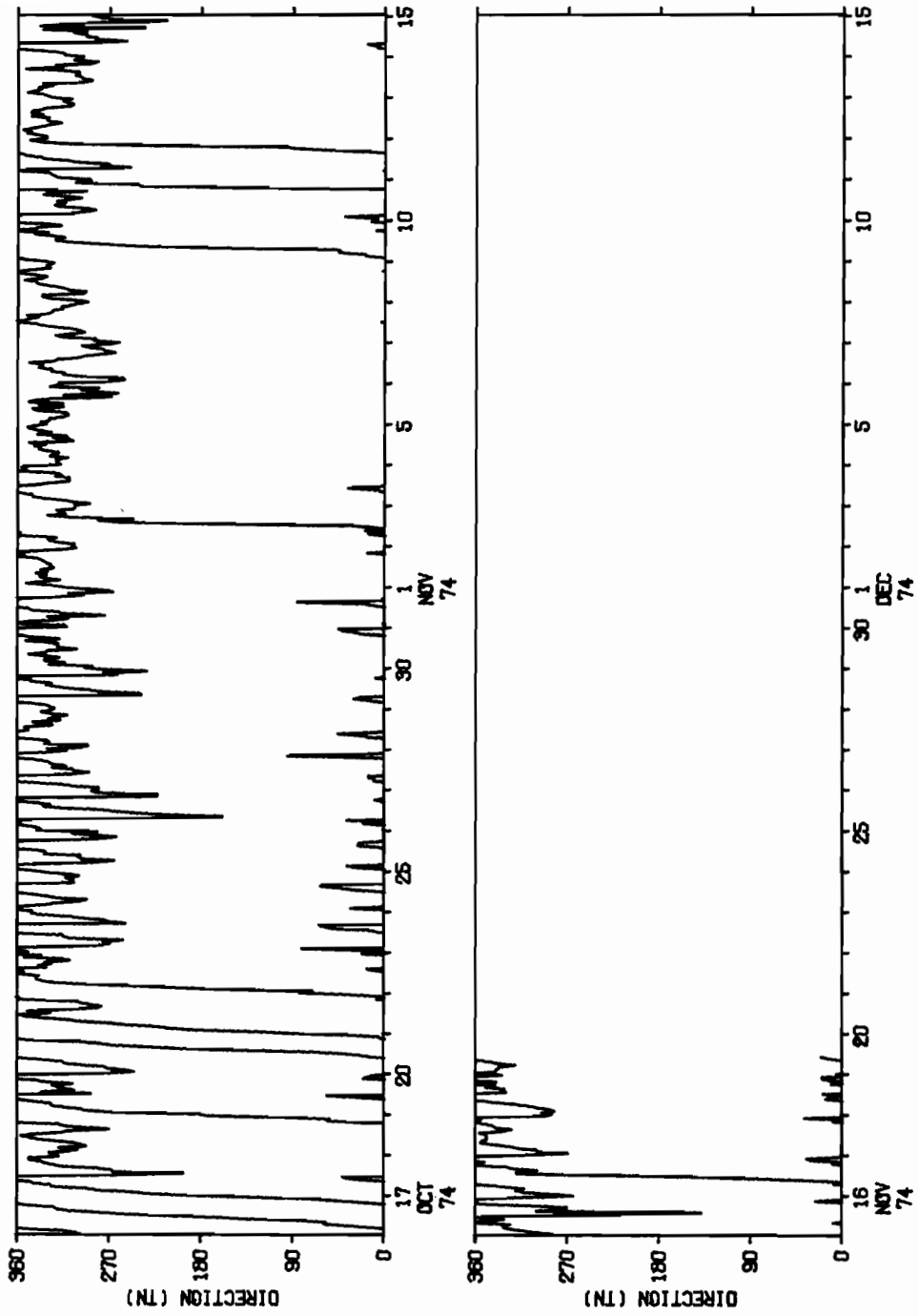
C.3. TIME SERIES ANALYSIS Current Meter 616 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 100.0 METERS.



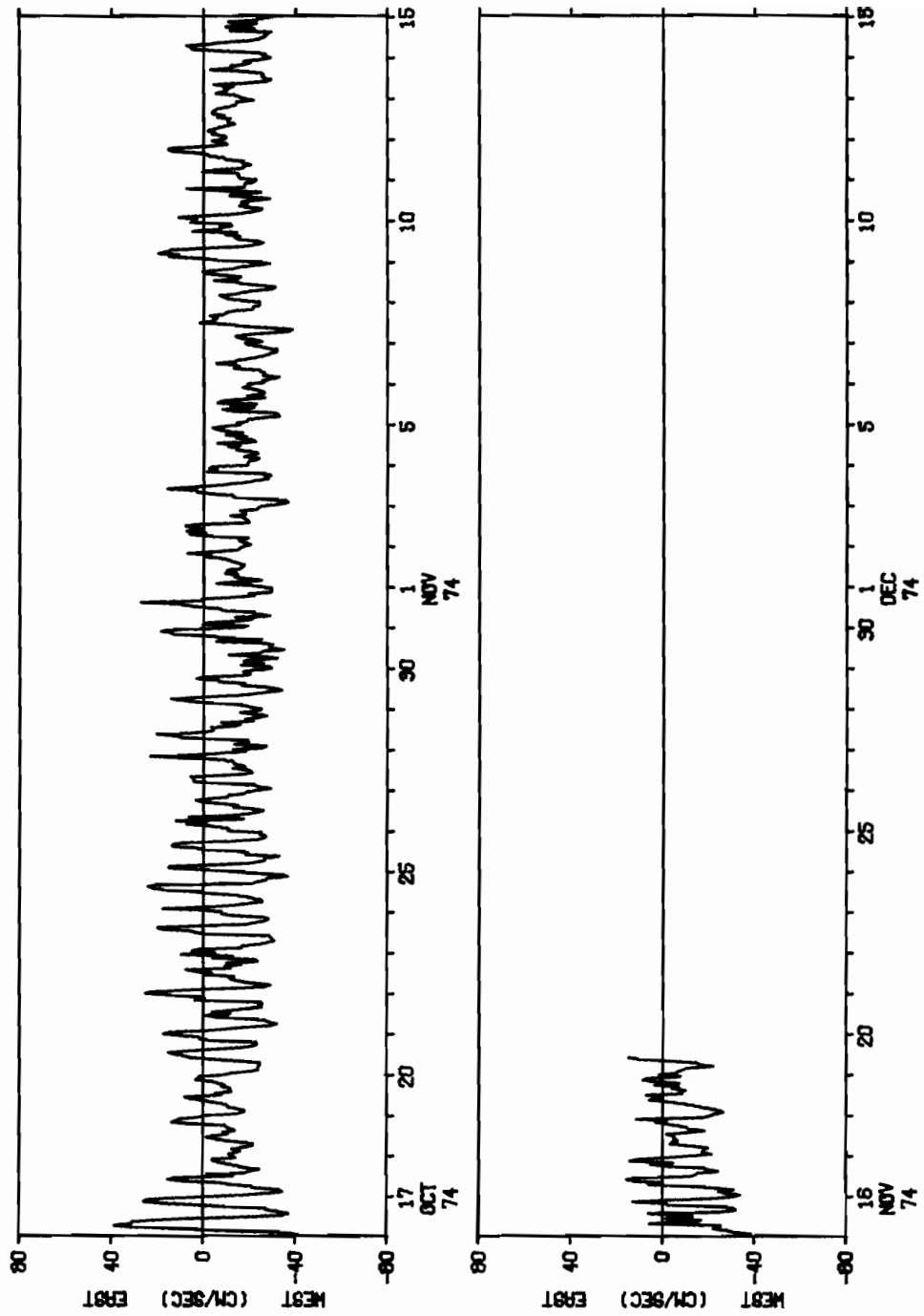
C.3. TIME SERIES ANALYSIS Current Meter 616 Part 2 of 2 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 100.0 METERS.



C.3. TIME SERIES ANALYSIS Current Meter 616 Part 2 of 2 (Continued)

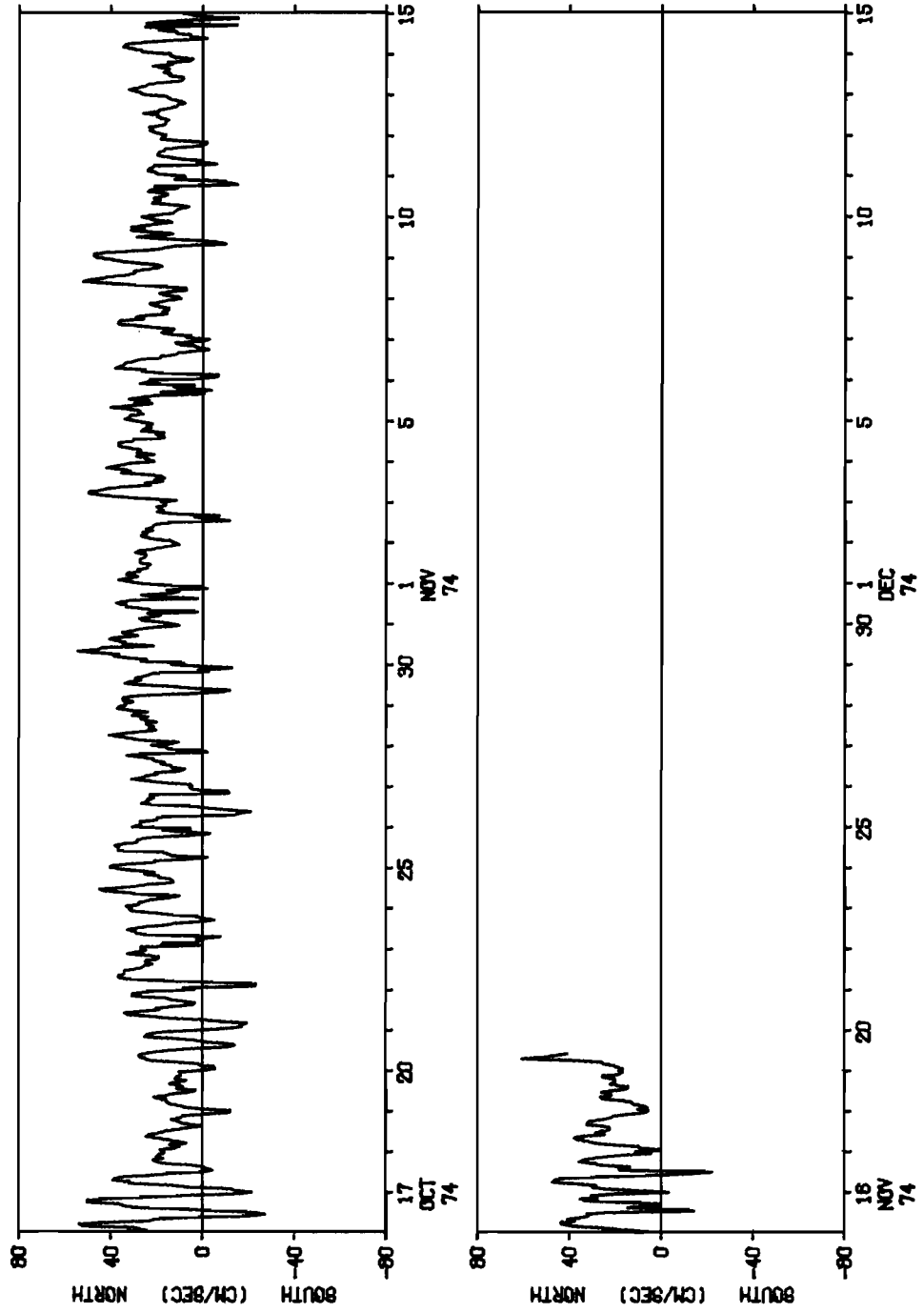
HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.





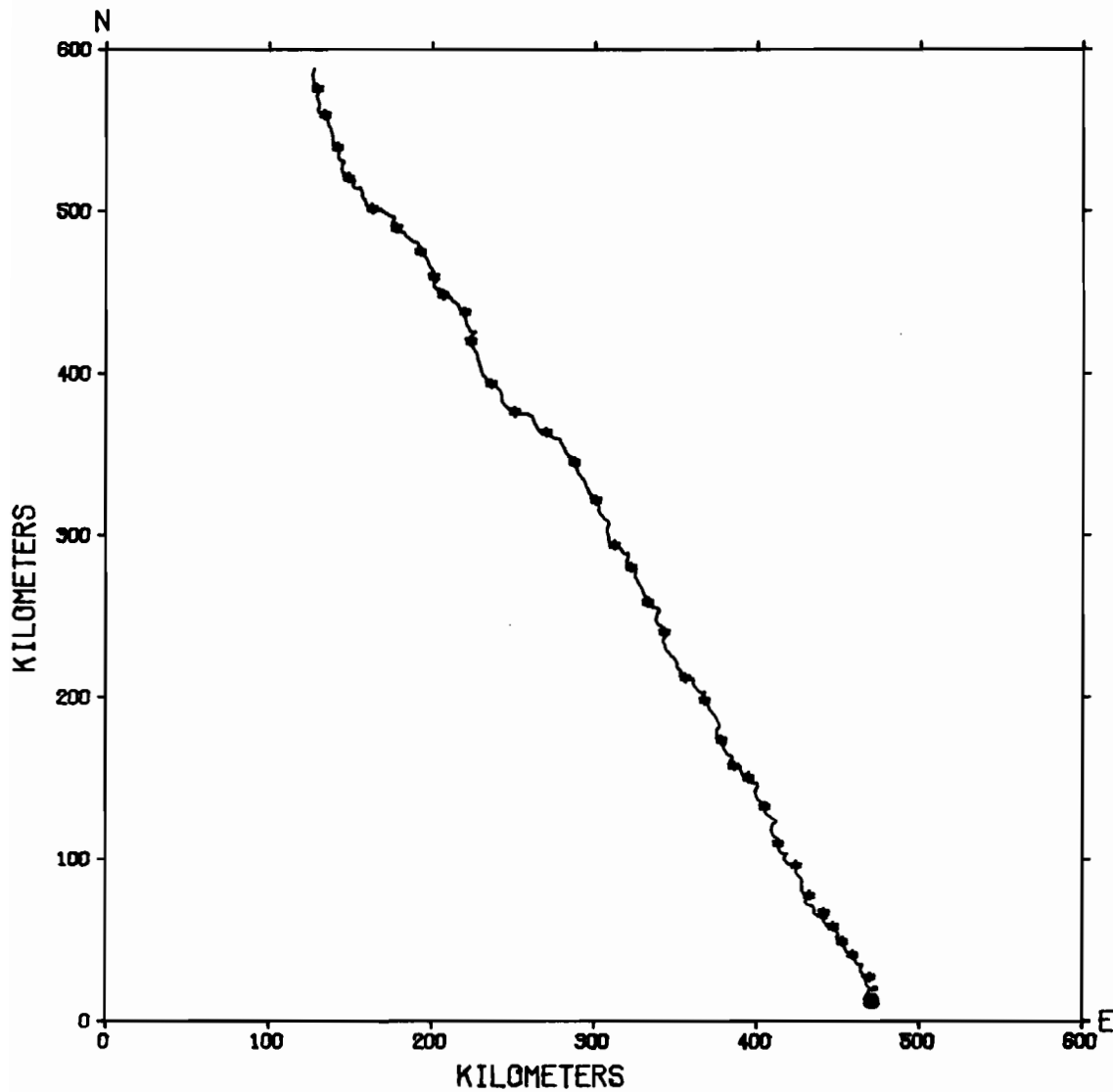
C.3. TIME SERIES ANALYSIS Current Meter 616 Part 2 of 2 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 100.0 METERS.

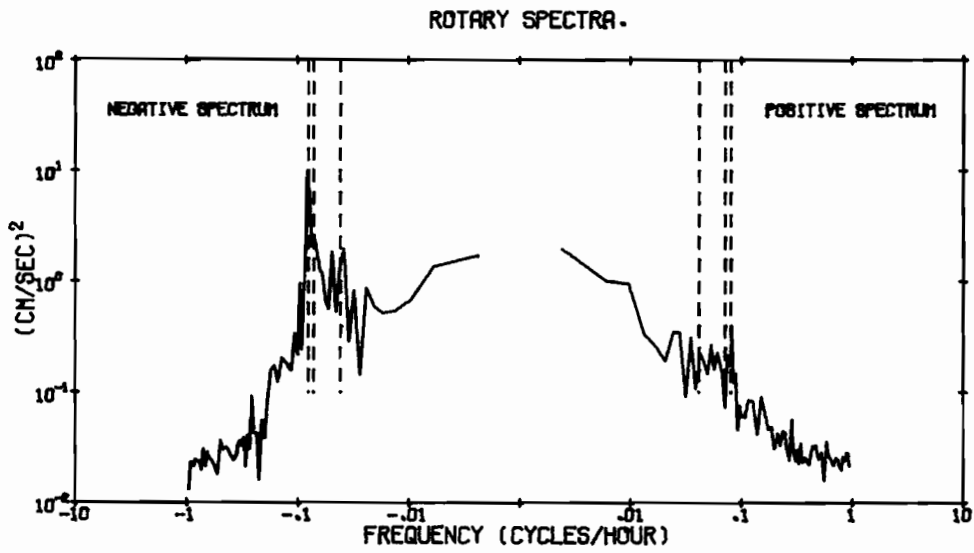
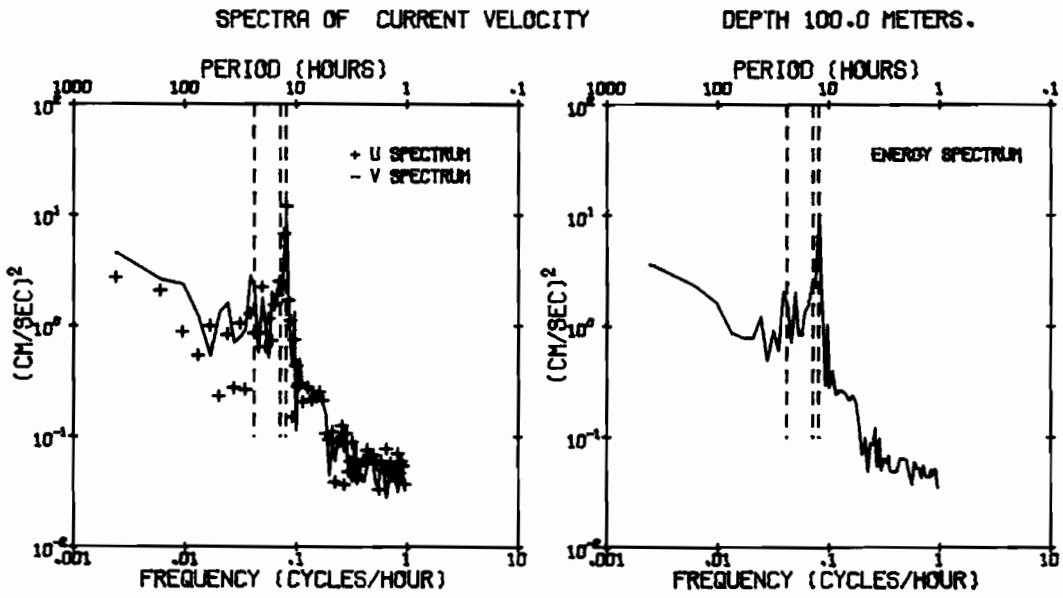


C.3. TIME SERIES ANALYSIS Current Meter 616  
Part 2 of 2 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEG0A - 62A  
OBSERVATION PERIOD 34.4 DAYS FROM 0034 GMT 16 OCT 74.  
DEPTH 100.0 METERS.



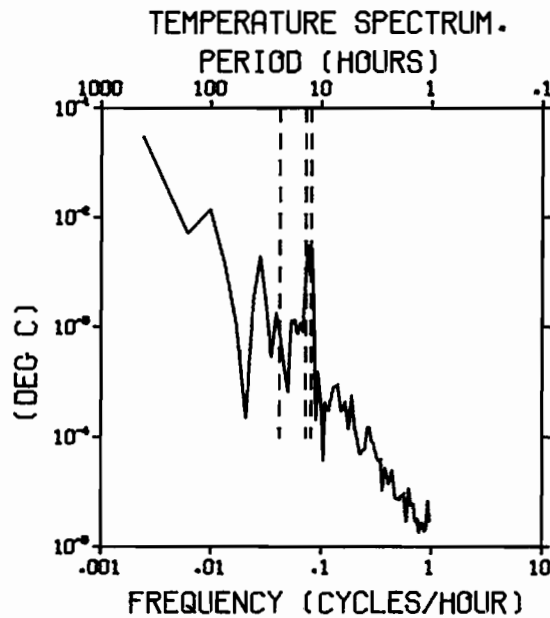
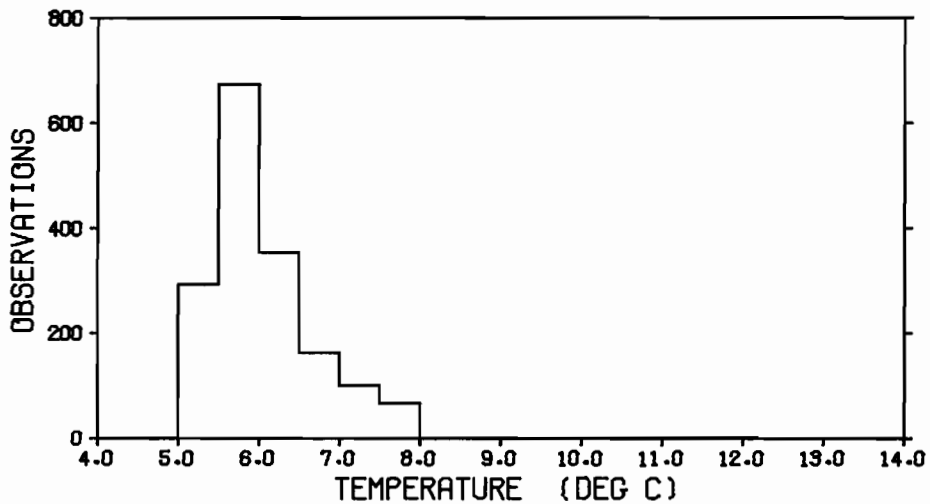
C.3. TIME SERIES ANALYSIS Current Meter 616  
 Part 2 of 2 (Continued)



C.3. TIME SERIES ANALYSIS Current Meter 616  
 Part 2 of 2 (Continued)

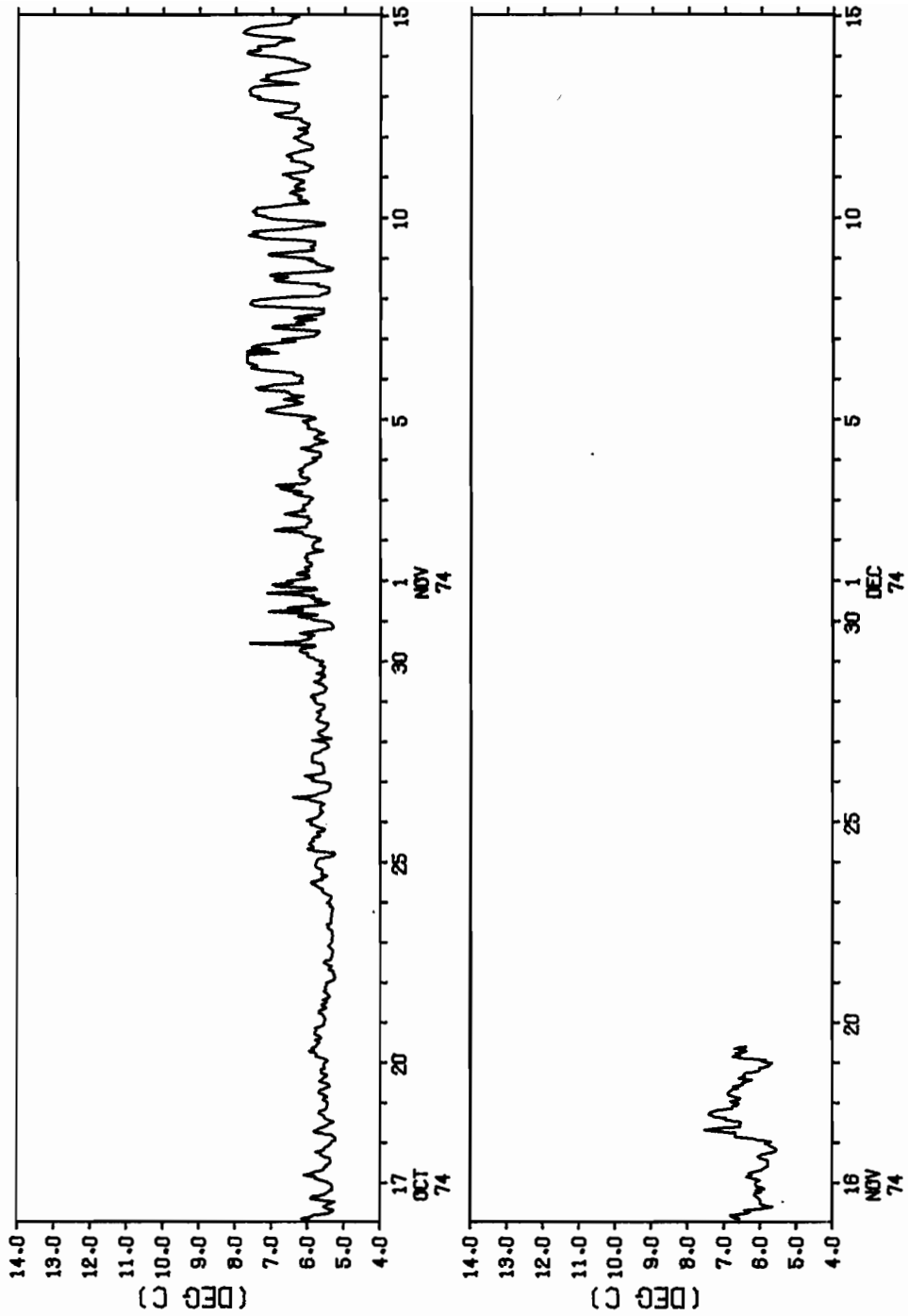
TEMPERATURE STATISTICS LAT. 59 34.4N LONG. 142 10.5W  
 DEPTH 100.0 METERS NUMBER OF OBSERVATIONS = 1652  
 OBSERVATION PERIOD 34.4 DAYS FROM 0034 GMT 16 OCT 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
6.04	.38	.61	1.06	3.39	7.90	5.15



C.3. TIME SERIES ANALYSIS Current Meter 616 Part 2 of 2 (Continued)

HOURLY AVERAGES OF TEMPERATURE DEPTH 100.0 METERS.



C.4. TIME SERIES ANALYSIS Current Meter 600 Nominal Depth: 178m  
 Part 1 of 3; 17 August - 16 October 1974

Mooring Designation NEG0A 62A

Location: 59° 34.4'N 142° 10.5'W

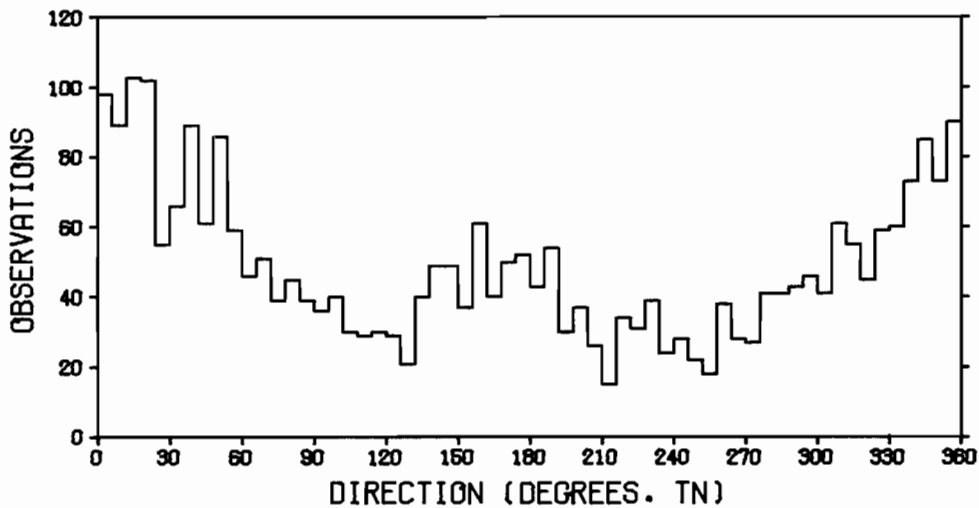
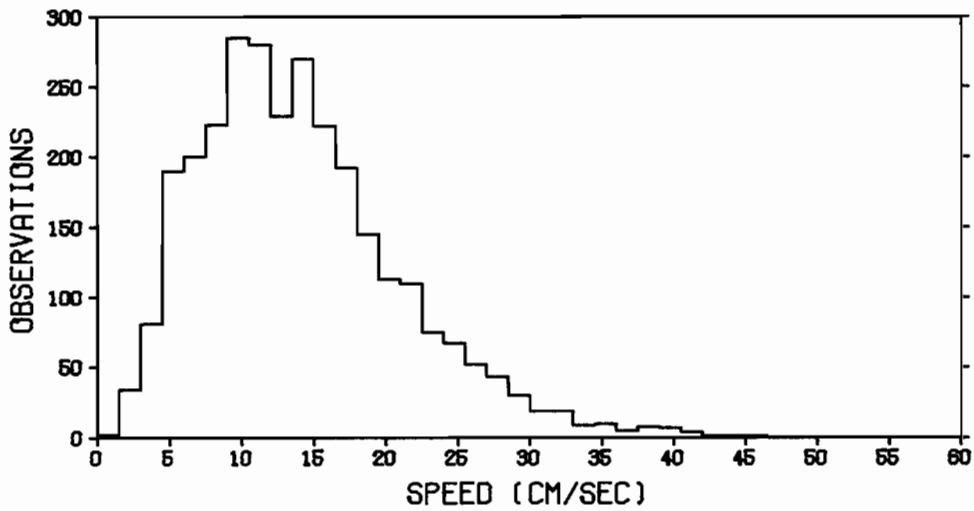
Sensors: Speed, Direction, Temperature, Conductivity

	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	14.08	49.42	7.03	.909	4.00	45.11	1.50
U	1.21	82.15	9.06	.014	2.59	26.01	-25.46
V	3.57	151.22	12.30	-.099	2.96	40.65	-31.40

S = SPEED

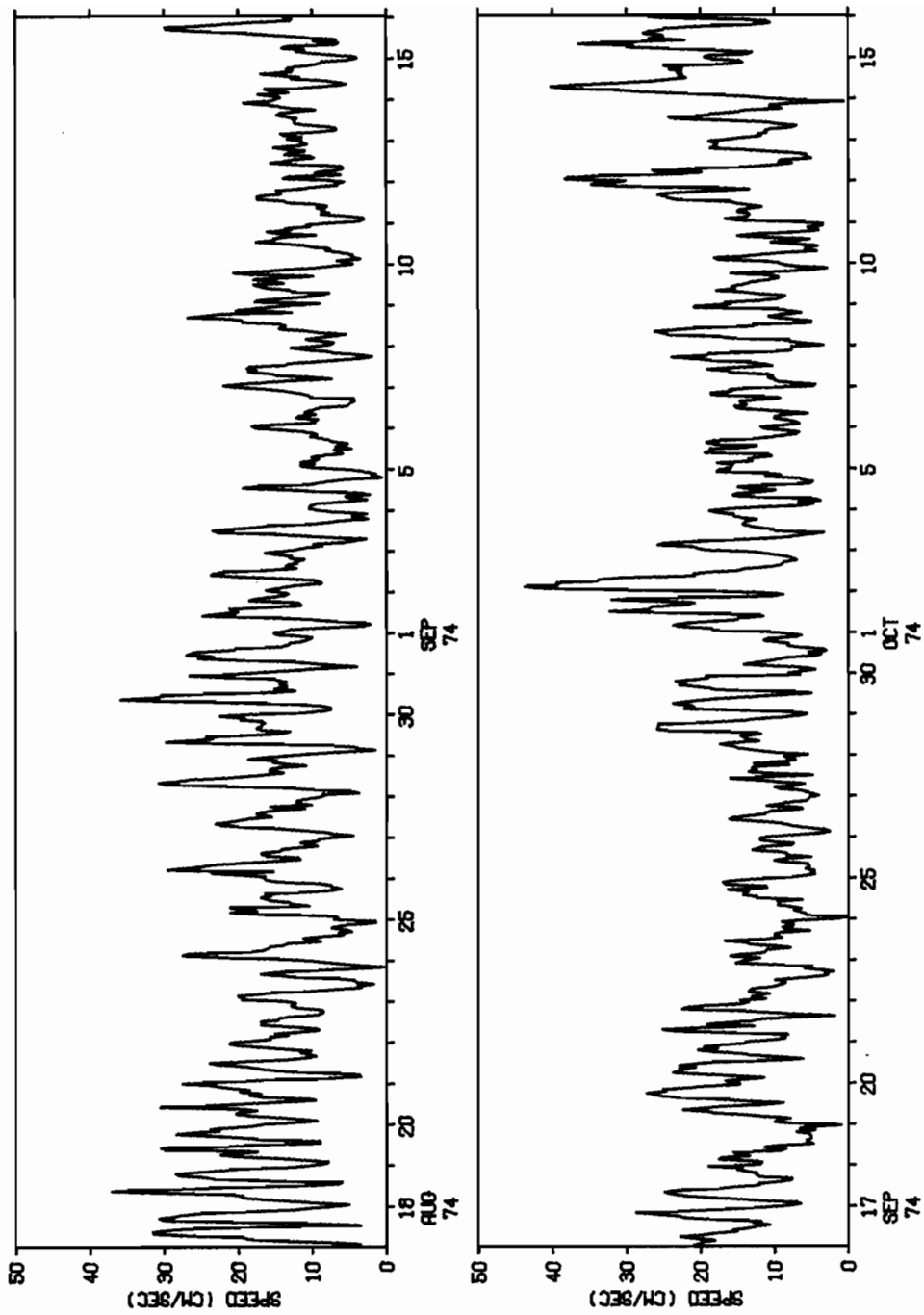
U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U

V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



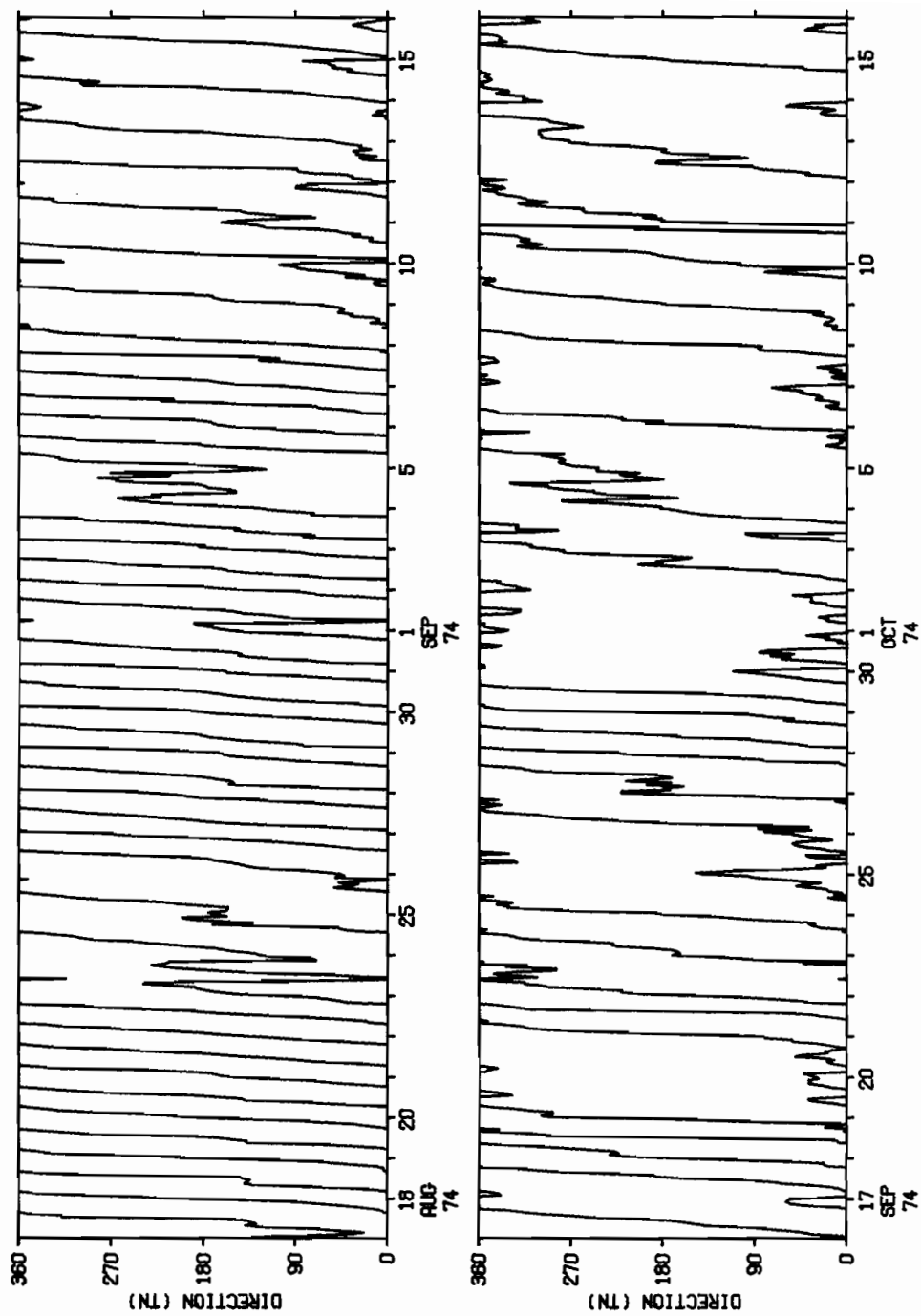
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 1 of 3 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 178.0 METERS.



C.4. TIME SERIES ANALYSIS Current Meter 600 Part 1 of 3 (Continued)

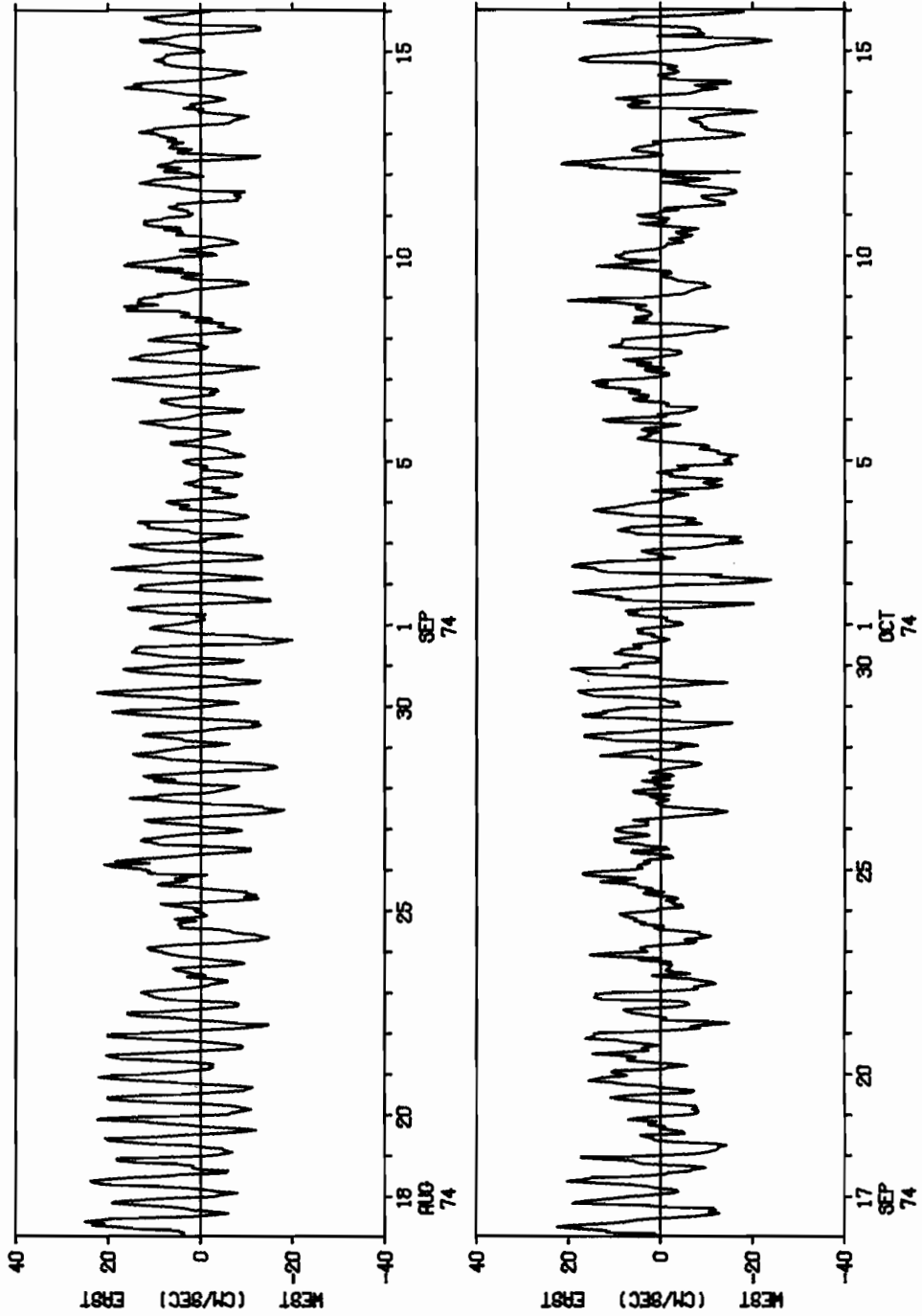
HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 178.0 METERS.





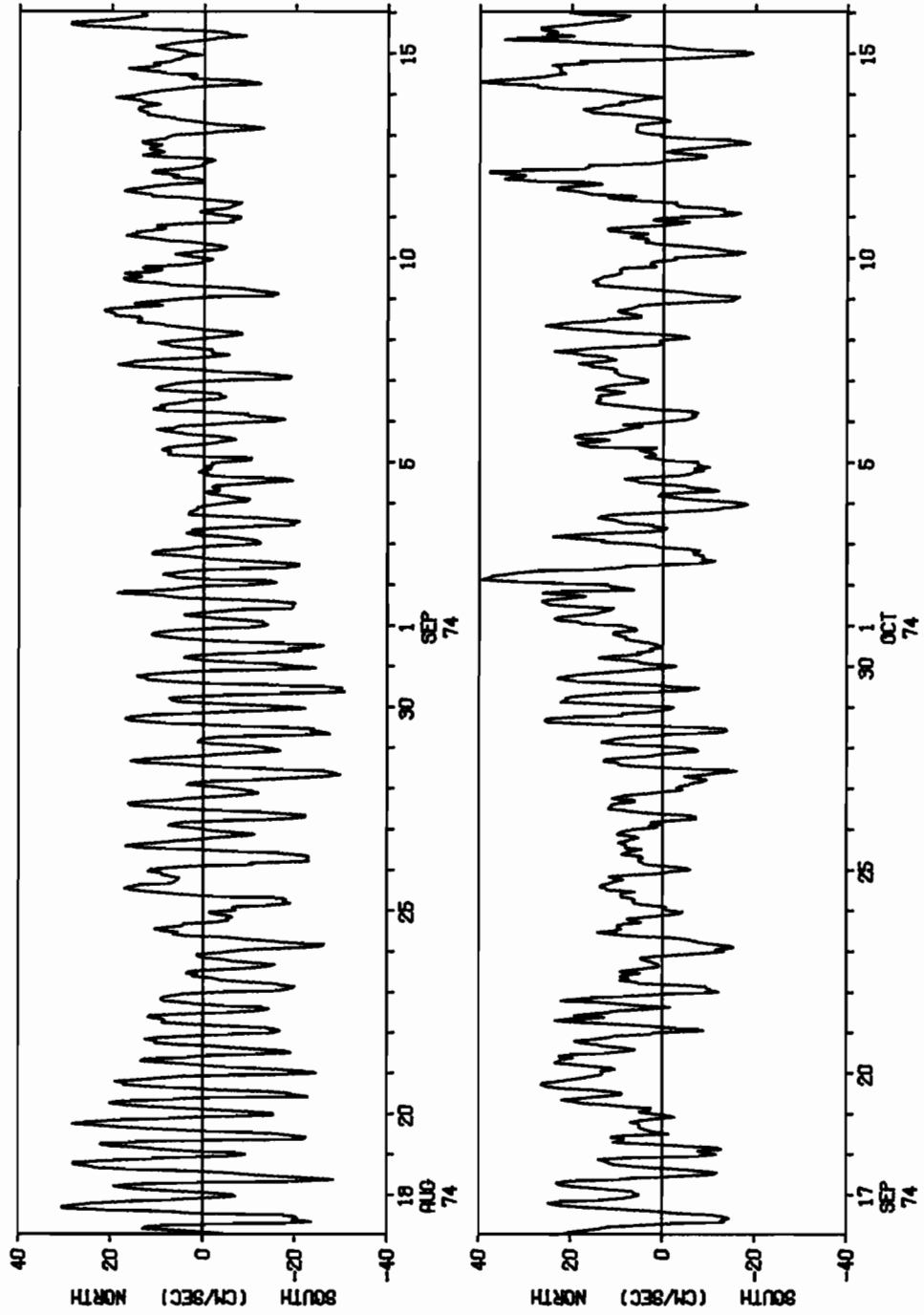
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 1 of 3 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 178.0 METERS.



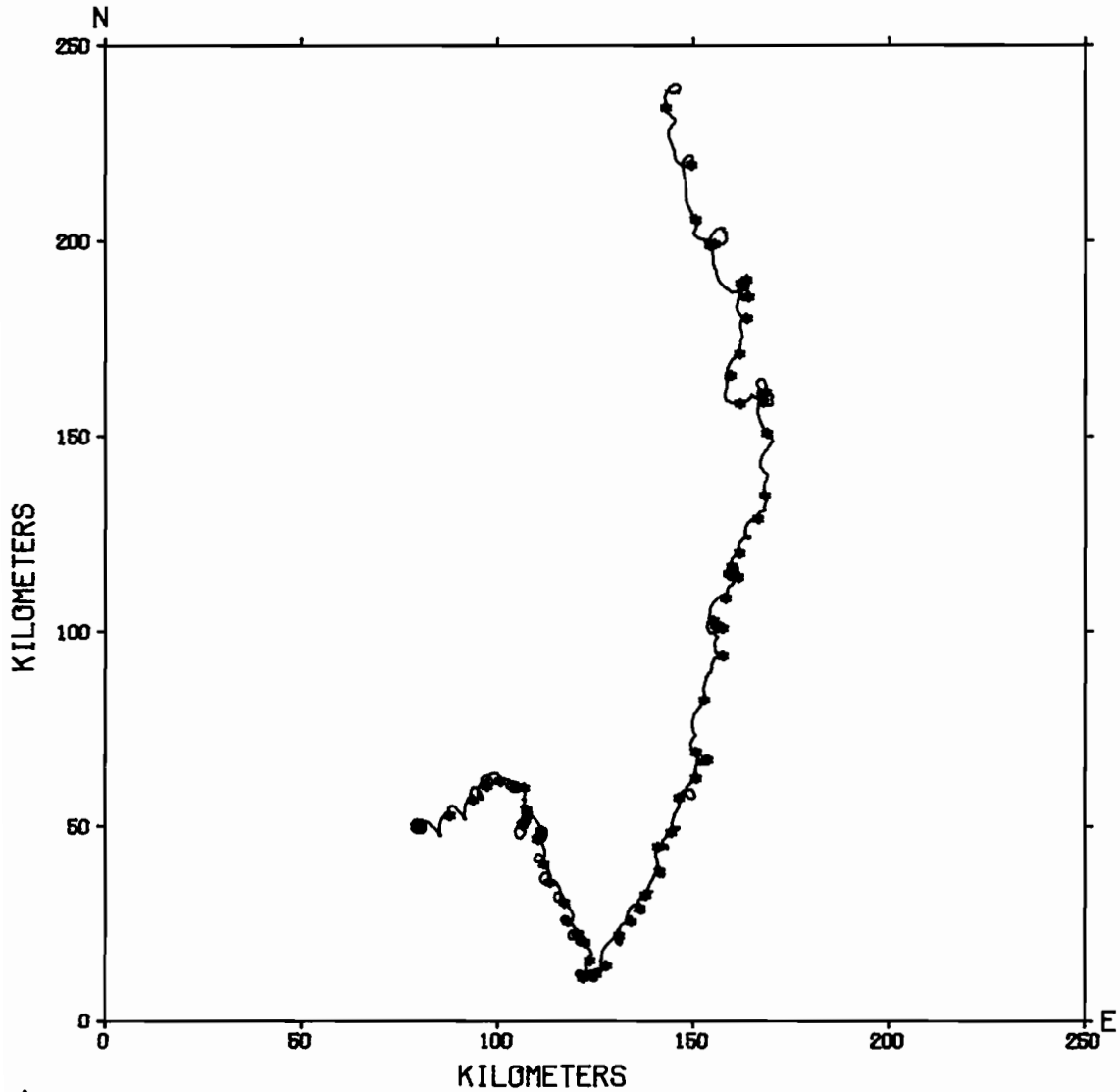
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 1 of 3 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 178.0 METERS.

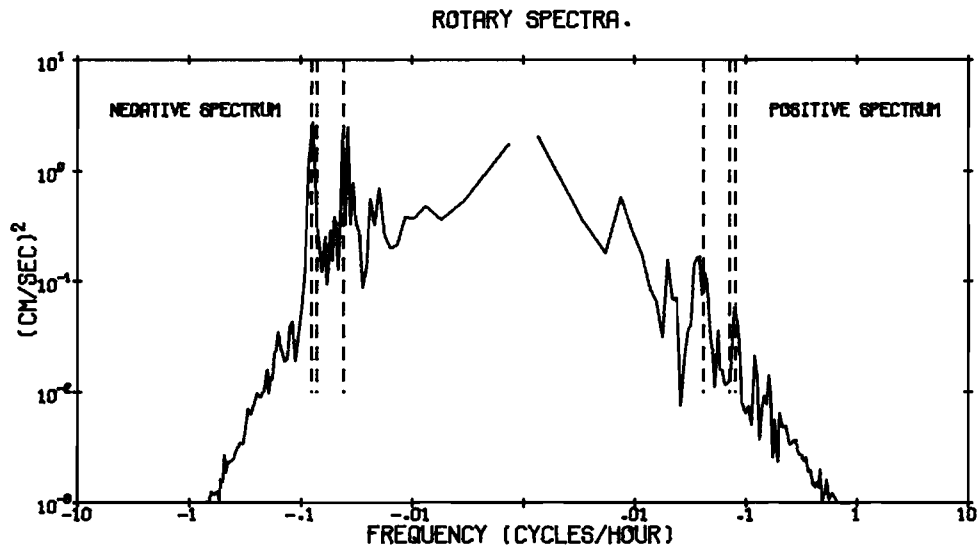
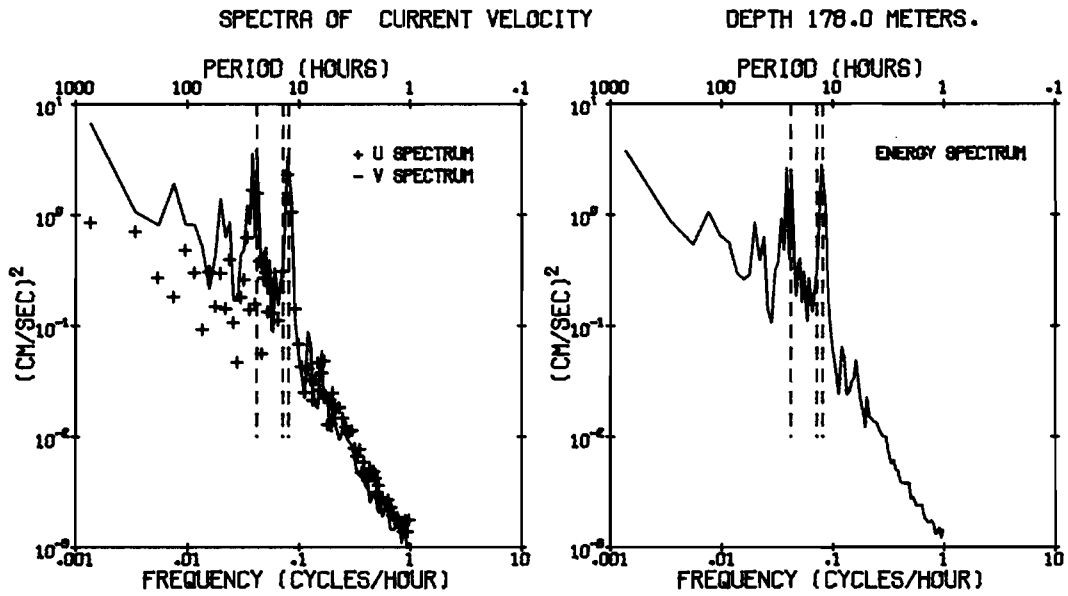


C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 1 of 3 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF CURRENTS  
OBSERVATION PERIOD 61.0 DAYS FROM 0036 GMT 17 AUG 74.  
DEPTH 178.0 METERS.



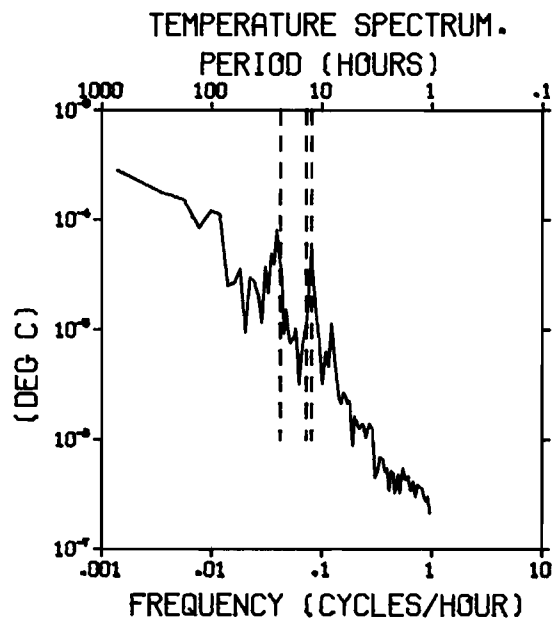
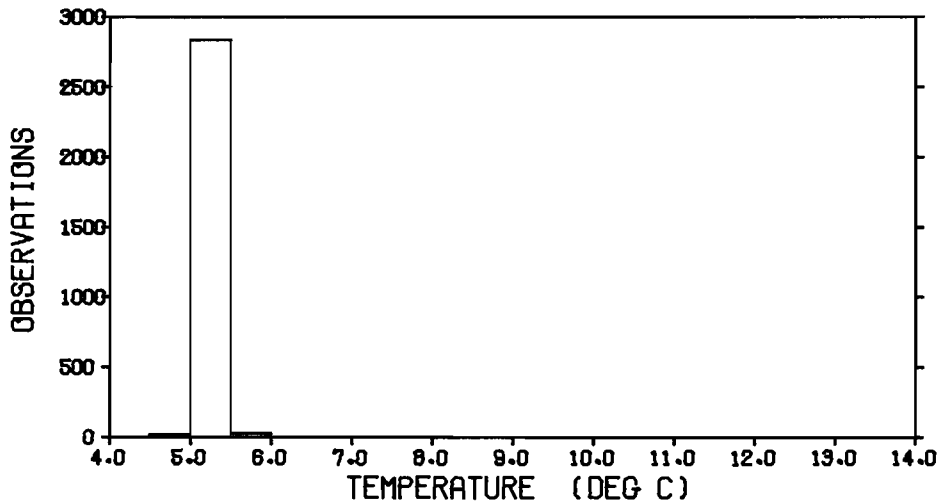
C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 1 of 3 (Continued)



C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 1 of 3 (Continued)

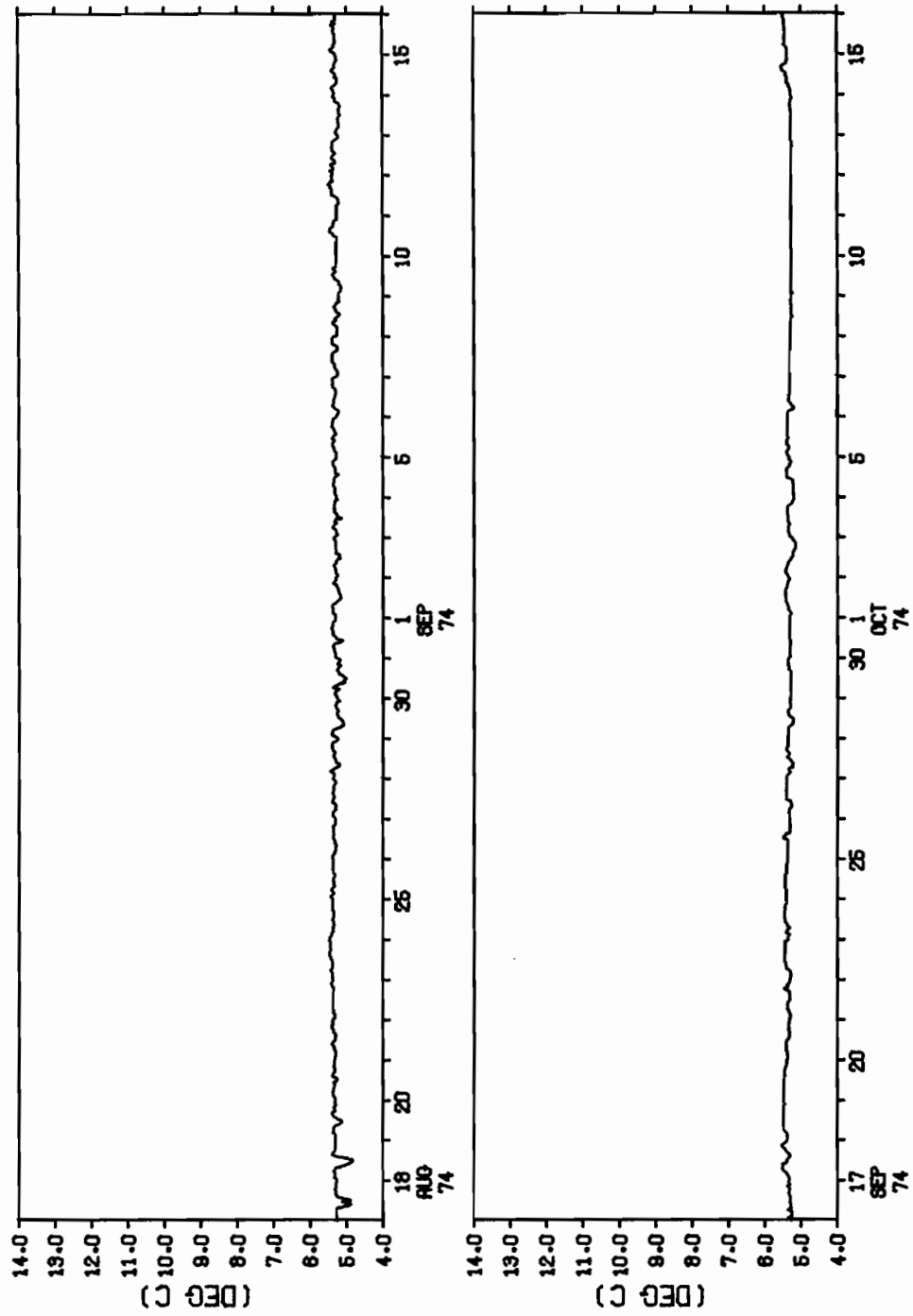
TEMPERATURE STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
DEPTH 178.0 METERS            NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 0036 GMT 17 AUG 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
5.33	.01	.08	-1.05	8.01	5.55	4.73



C.4. TIME SERIES ANALYSIS Current Meter 600 Part 1 of 3 (Continued)

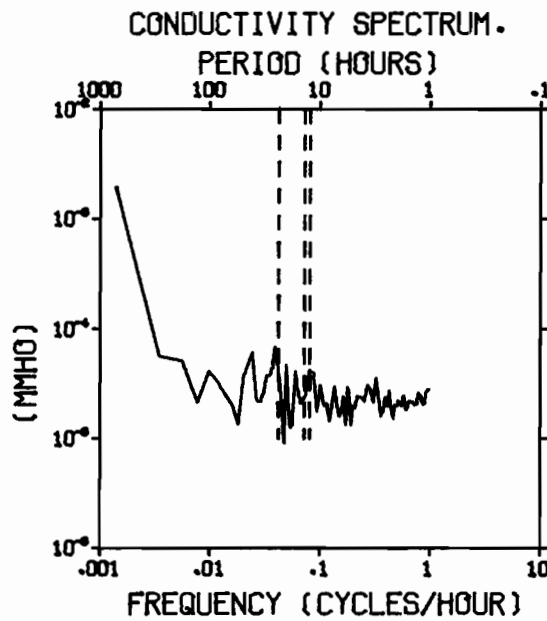
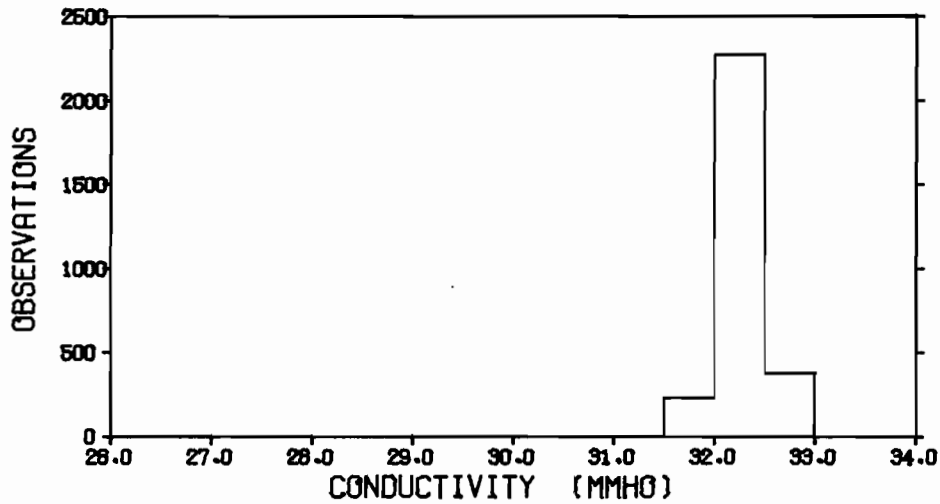
HOURLY AVERAGES OF TEMPERATURE DEPTH 178.0 METERS.



C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 1 of 3 (Continued)

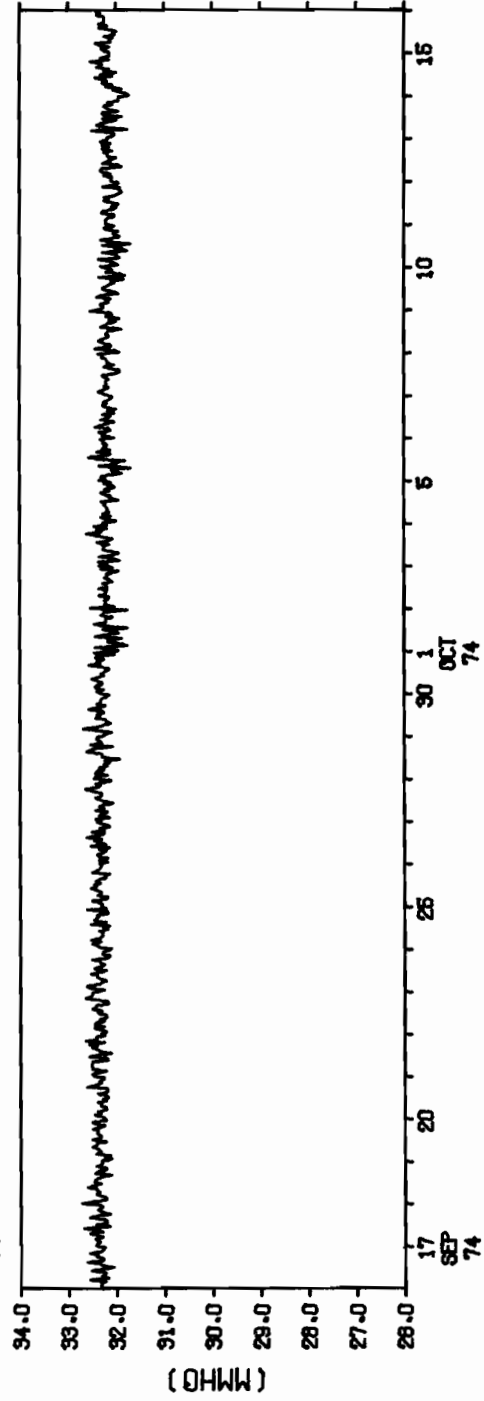
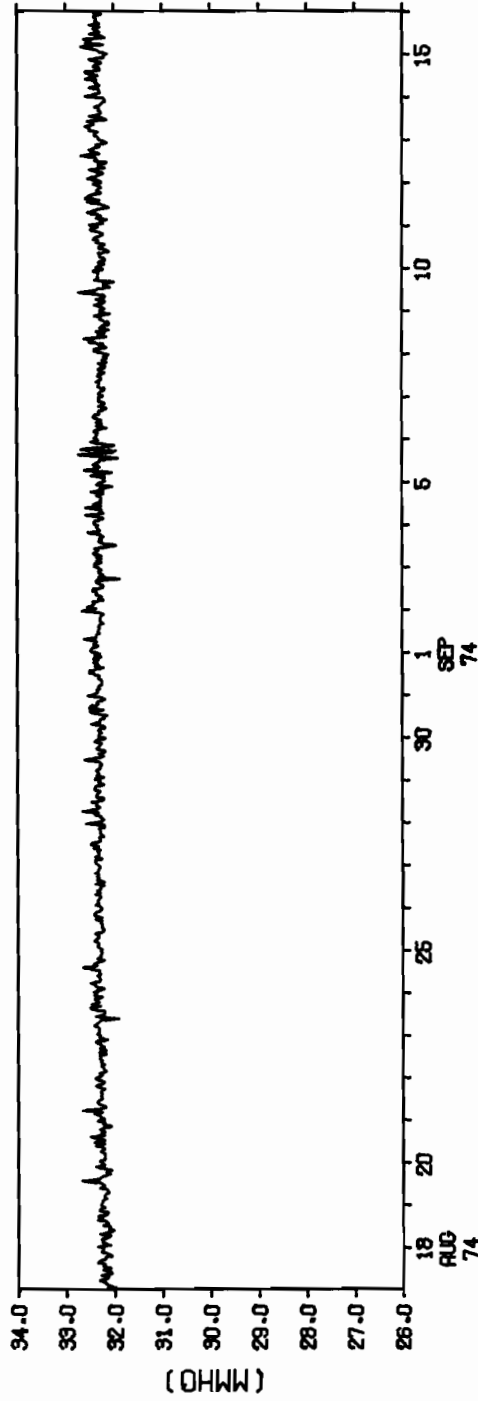
CONDUCTIVITY STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
DEPTH 178.0 METERS            NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 0036 GMT 17 AUG 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
32.27	.04	.20	-.12	4.47	32.87	31.60



C.4. TIME SERIES ANALYSIS Current Meter 600 Part 1 of 3 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 178.0 METERS.



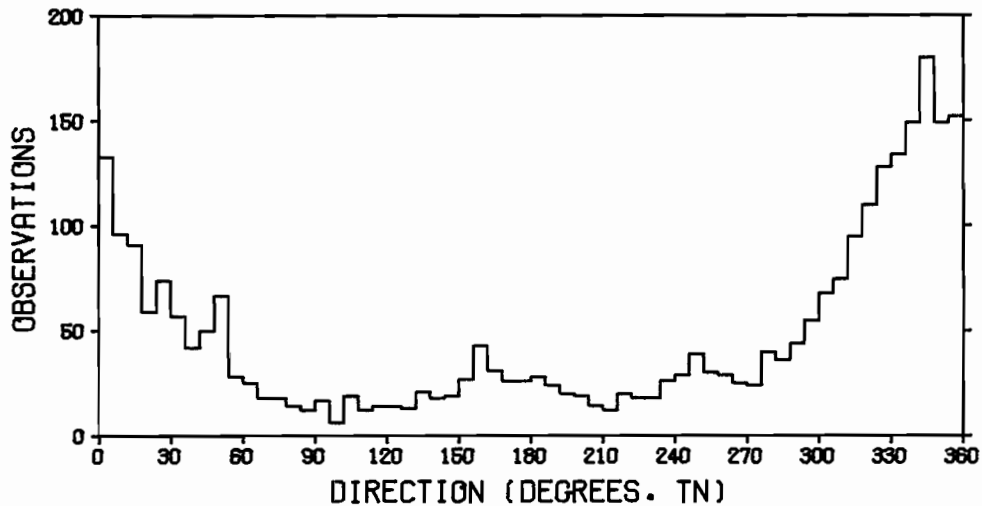
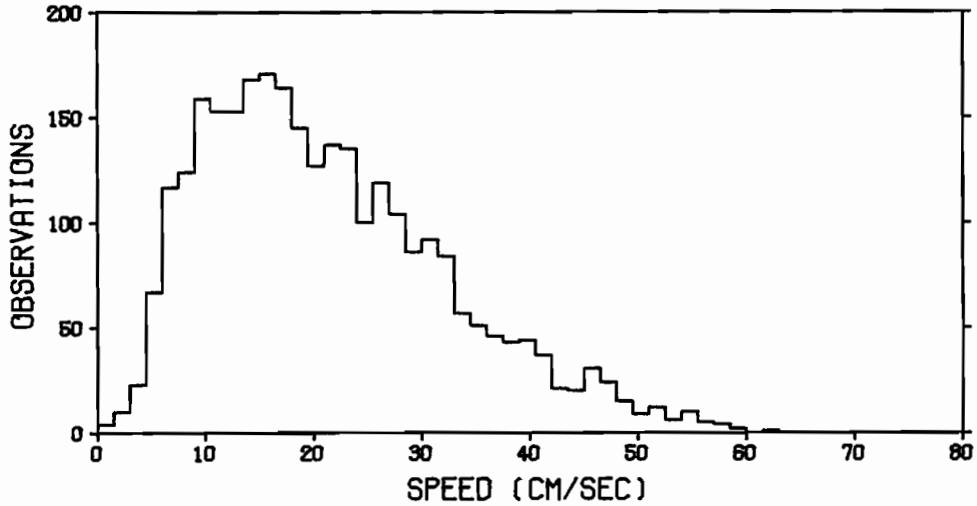


C.4. TIME SERIES ANALYSIS Current Meter 600 Nominal Depth: 178m  
 Part 2 of 3; 17 October - 16 December 1974

Mooring Designation NEG0A 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature, Conductivity

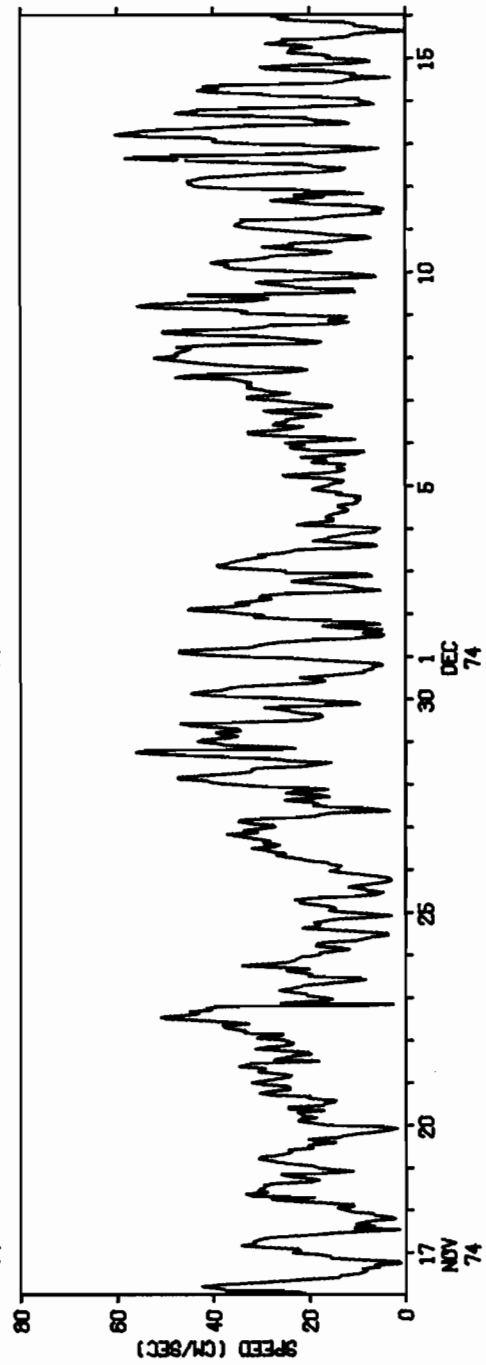
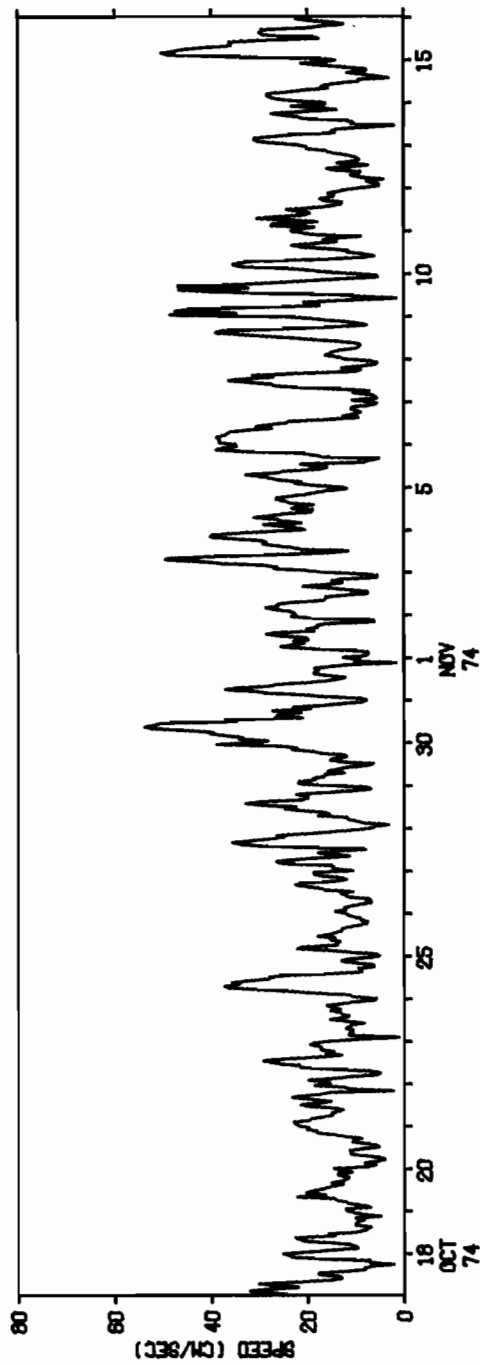
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	21.32	125.90	11.22	.749	3.12	62.22	1.50
U	-4.67	154.71	12.44	-.525	3.50	30.04	-53.40
V	11.63	268.58	16.39	-.324	3.14	55.72	-42.20

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



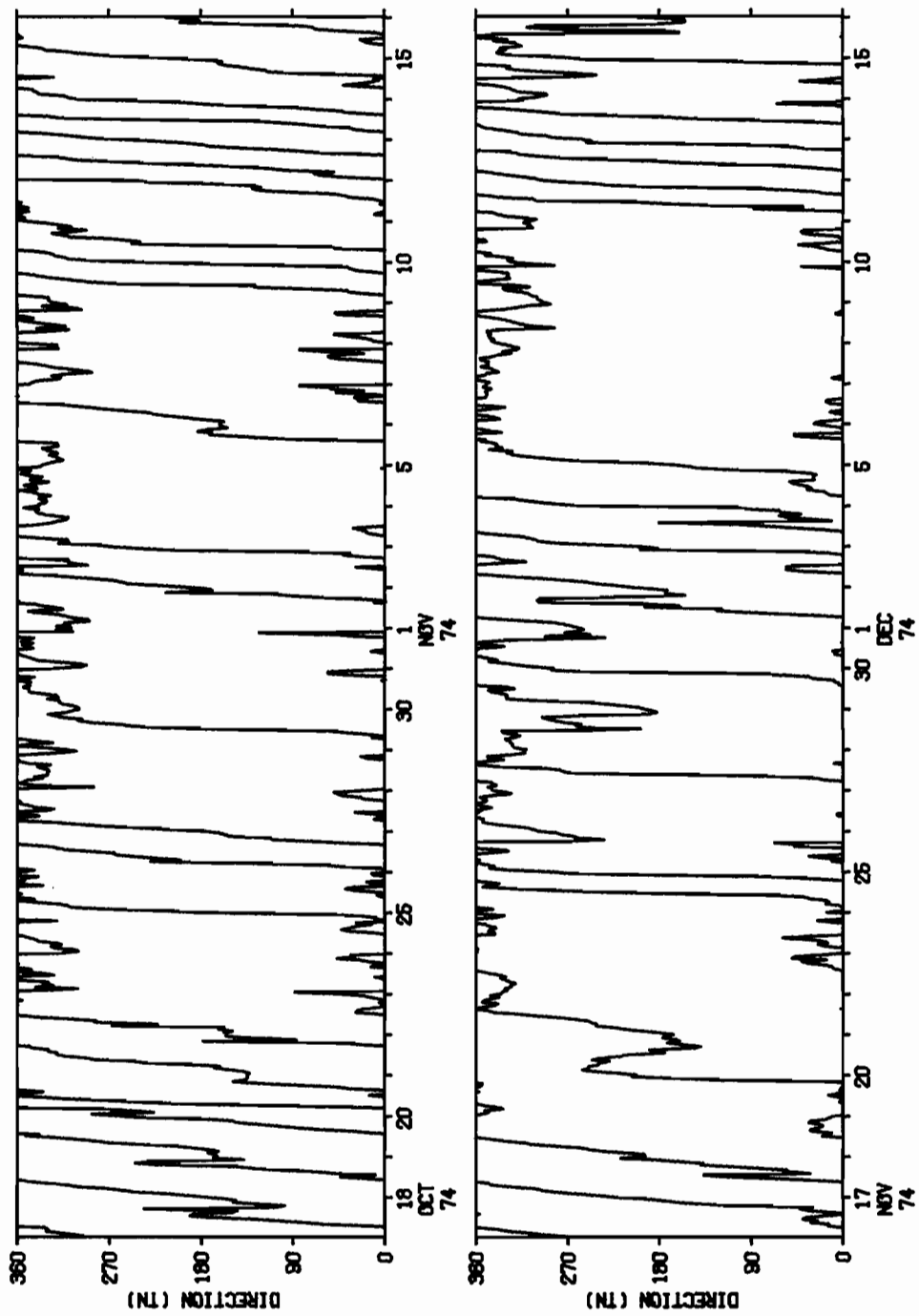
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 2 of 3 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 178.0 METERS.



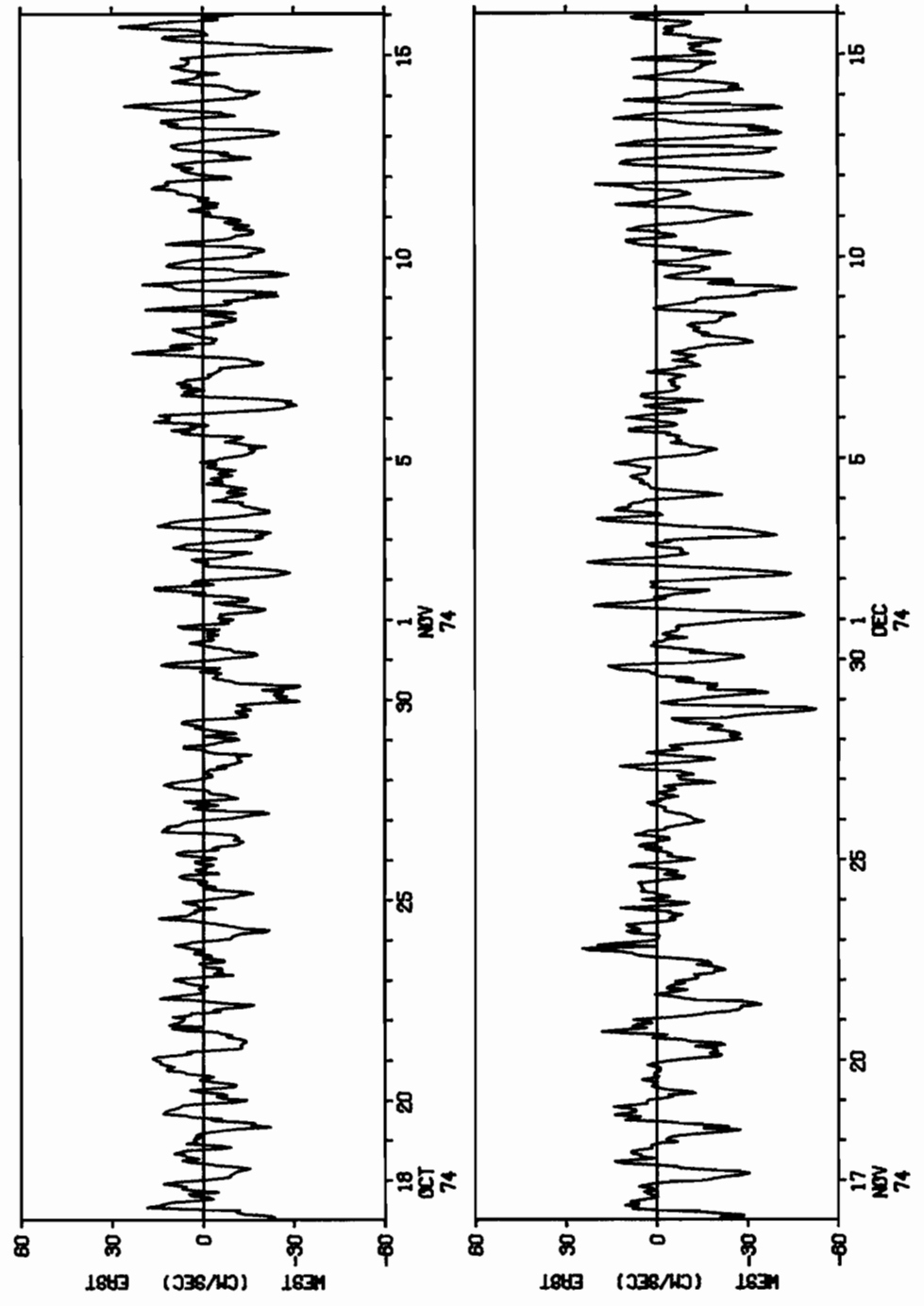
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 2 of 3 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 178.0 METERS.



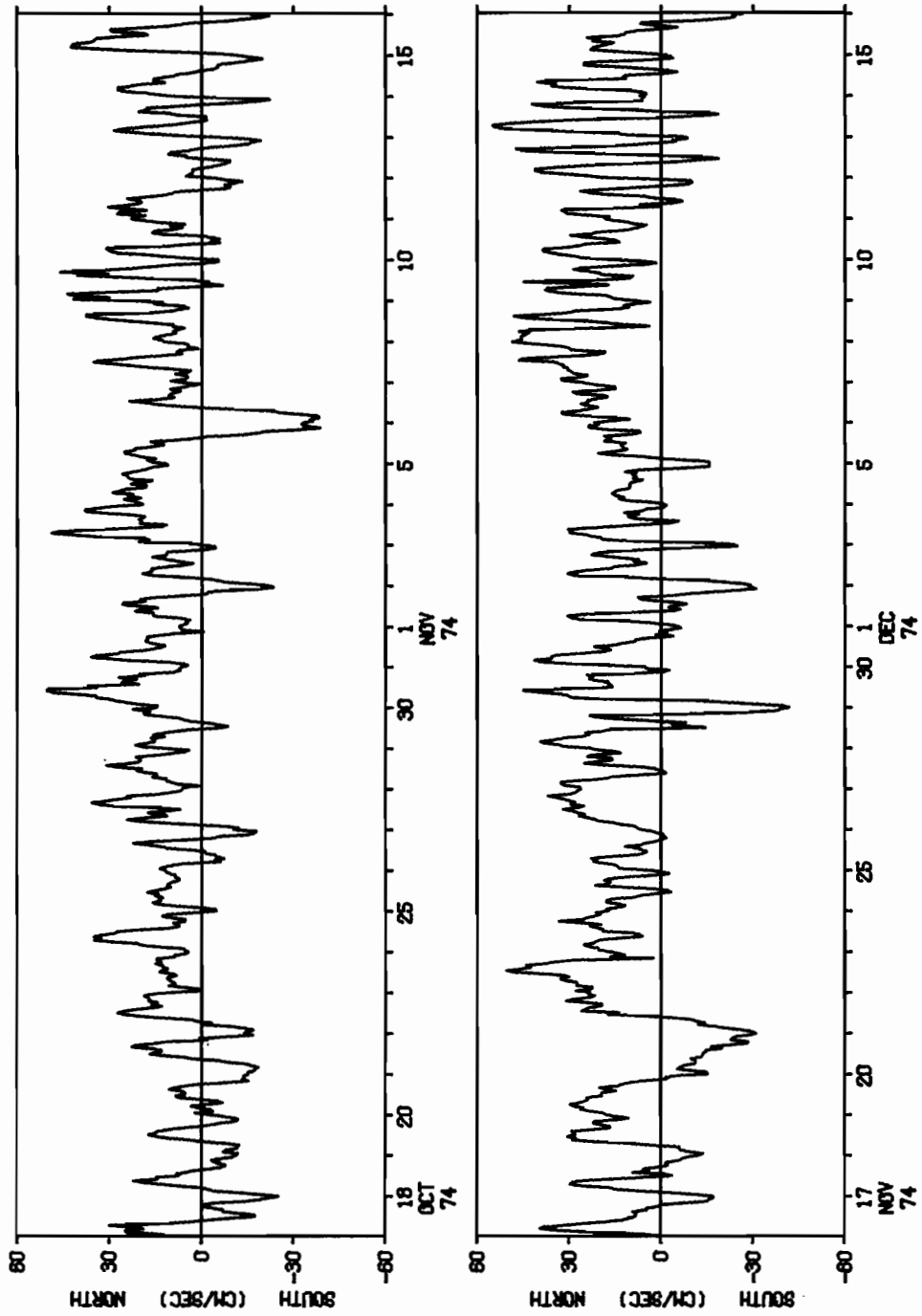
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 2 of 3 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 178.0 METERS.



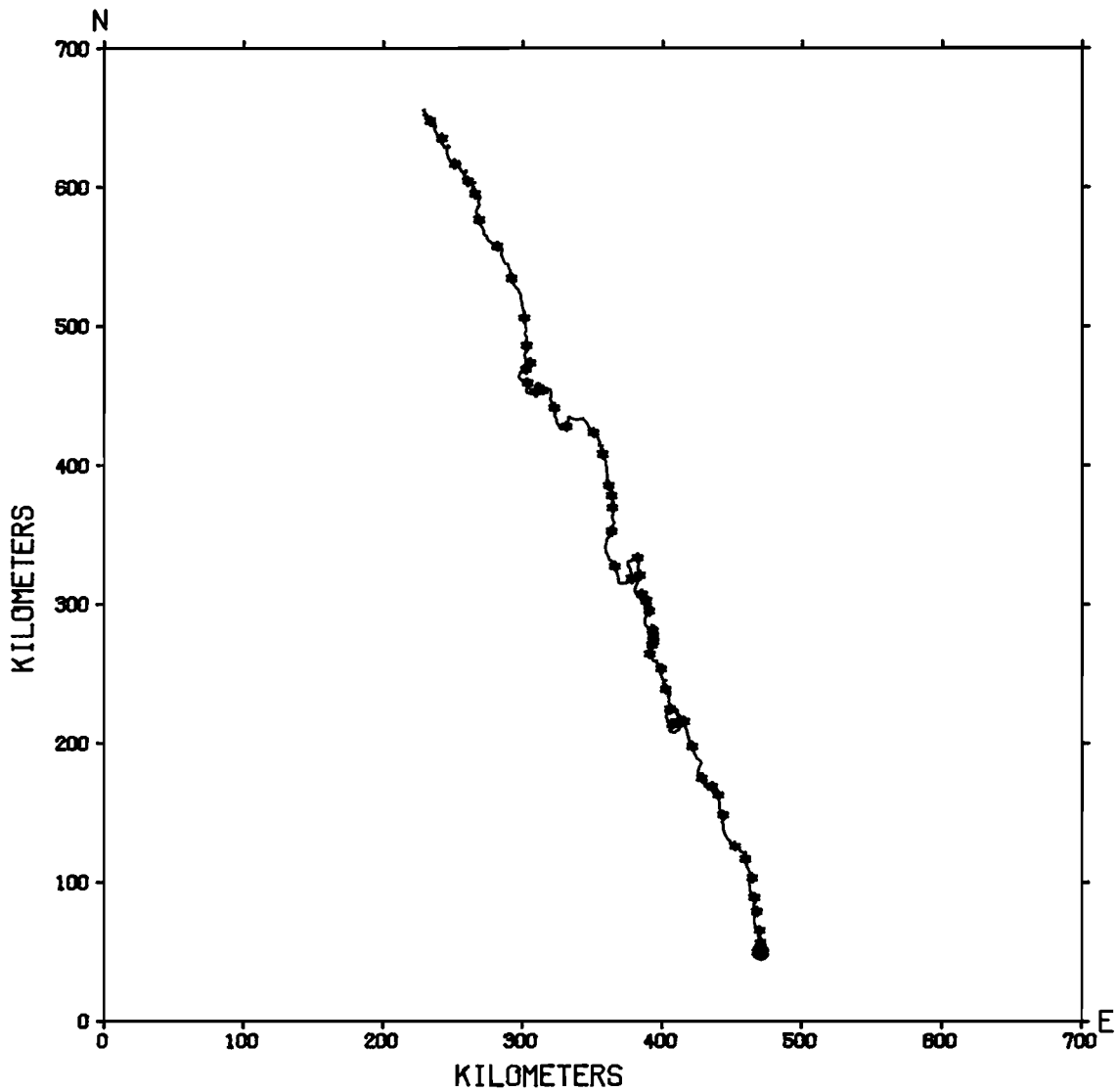
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 2 of 3 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 178.0 METERS.

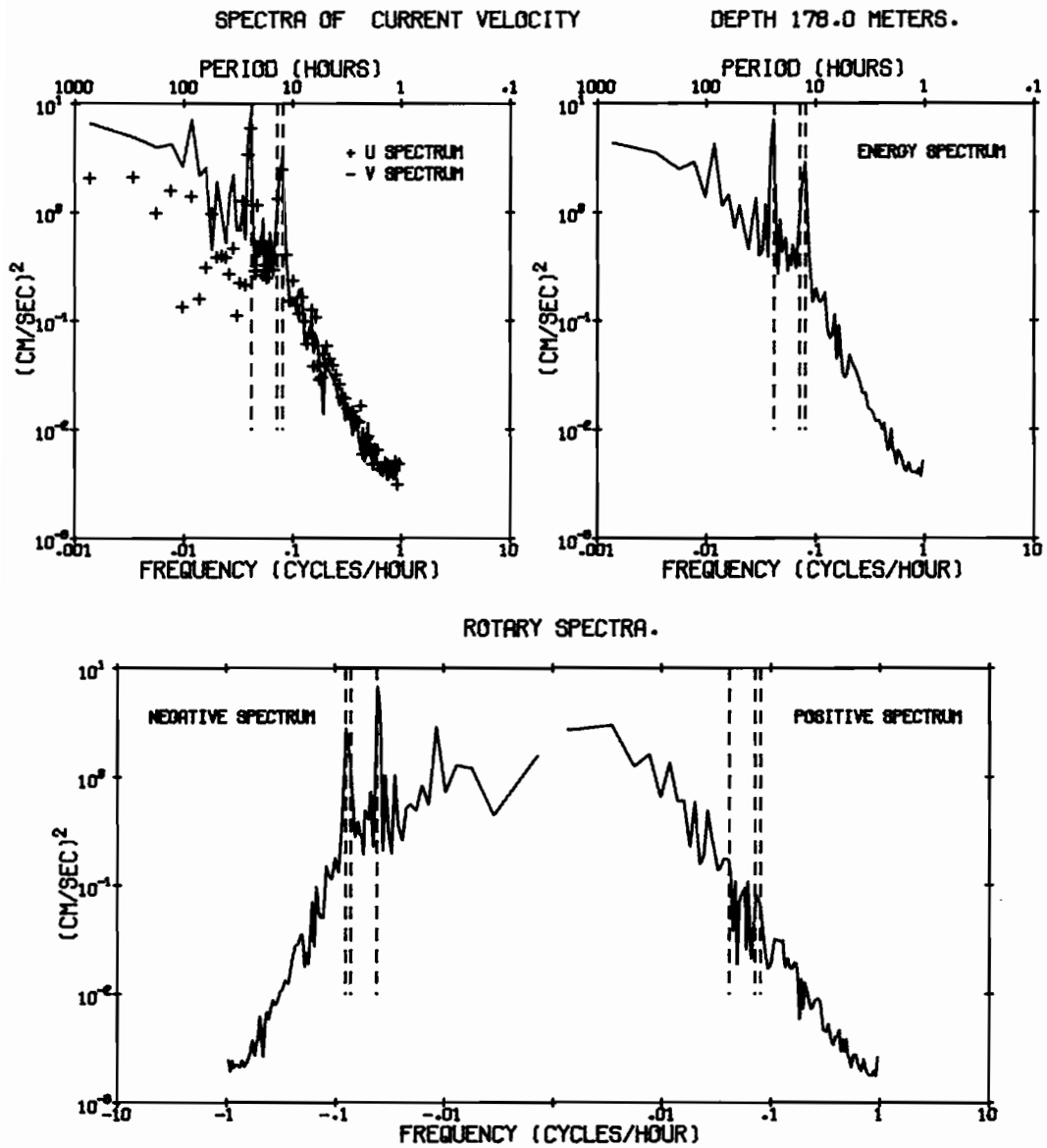


C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 2 of 3 (Continued)

PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF CURRENTS  
OBSERVATION PERIOD 60.0 DAYS FROM 0036 GMT 17 OCT 74.  
DEPTH 178.0 METERS.



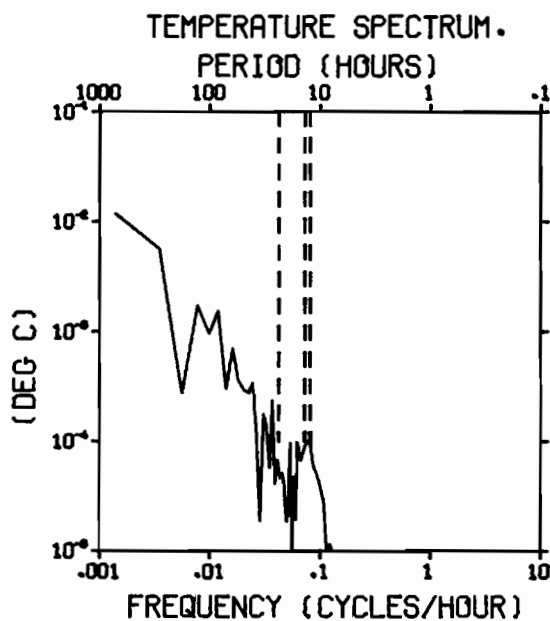
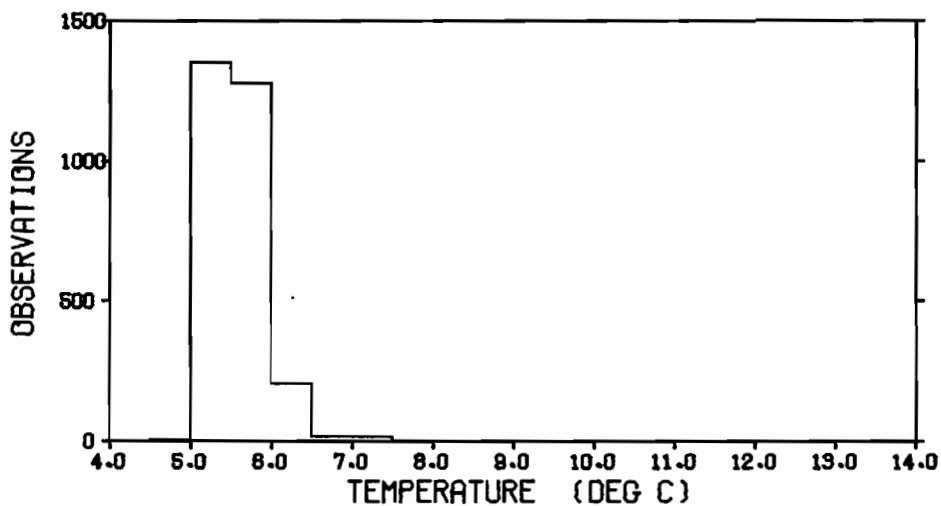
C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 2 of 3 (Continued)



C.4. TIME SERIES ANALYSIS Current Meter 600  
 Part 2 of 3 (Continued)

TEMPERATURE STATISTICS LAT. 59 34.4N LONG. 142 10.5W  
 DEPTH 178.0 METERS NUMBER OF OBSERVATIONS = 2880  
 OBSERVATION PERIOD 60.0 DAYS FROM 0036 GMT 16 OCT 74

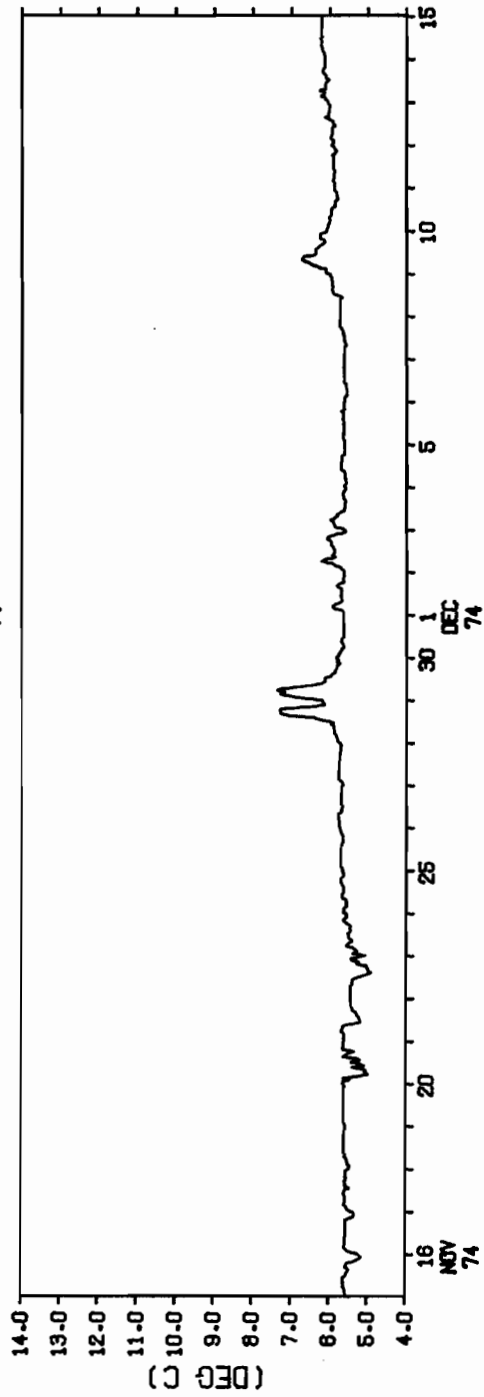
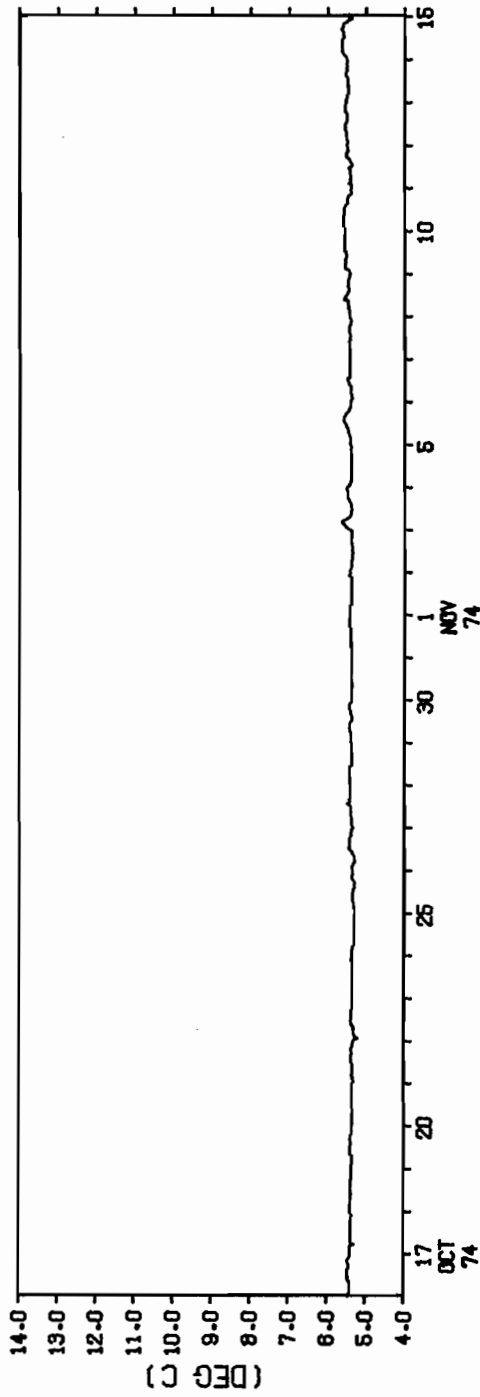
MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKEW	KURT	MAX (DEG C)	MIN (DEG C)
5.58	.08	.29	2.17	11.09	7.51	4.89





C.4. TIME SERIES ANALYSIS Current Meter 600 Part 2 of 3 (Continued)

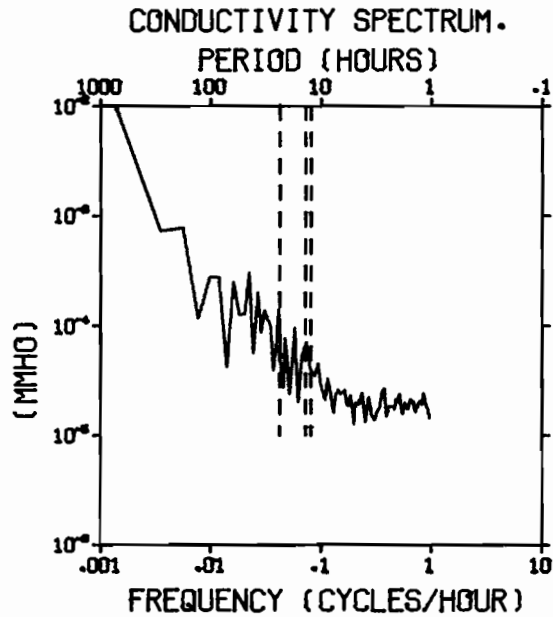
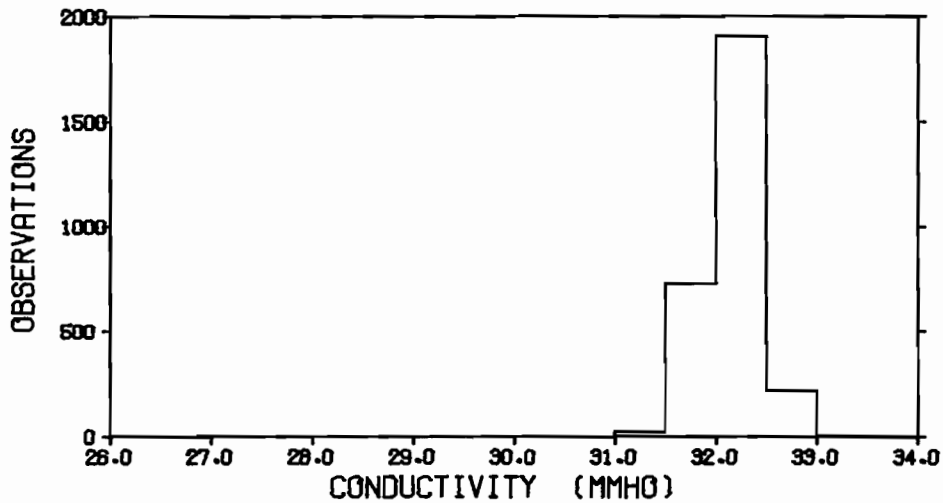
HOURLY AVERAGES OF TEMPERATURE DEPTH 178.0 METERS.



C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 2 of 3 (Continued)

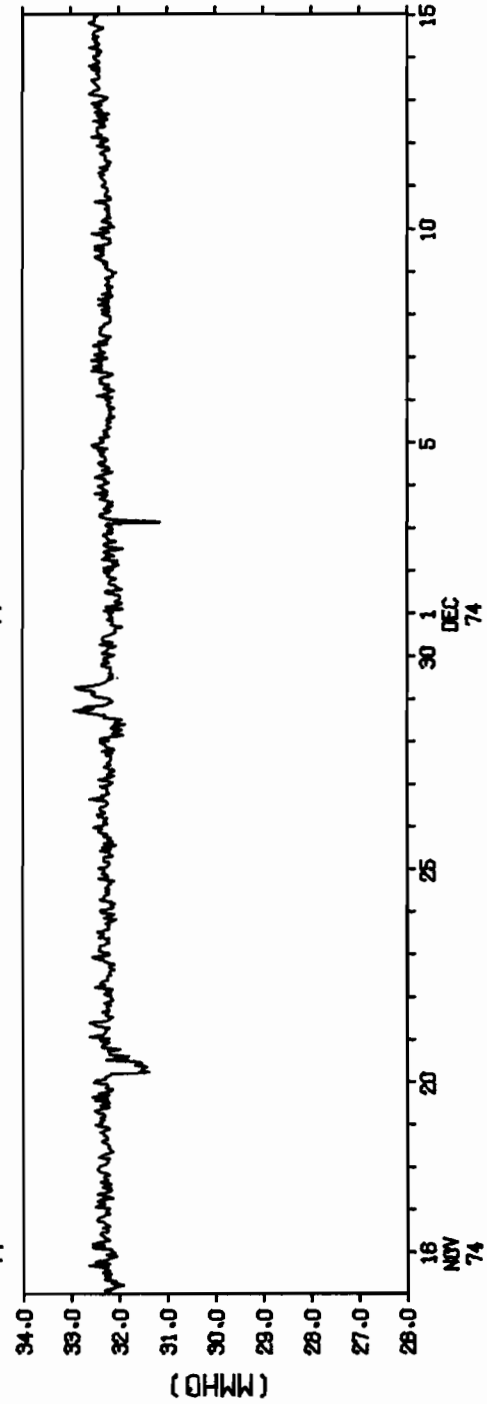
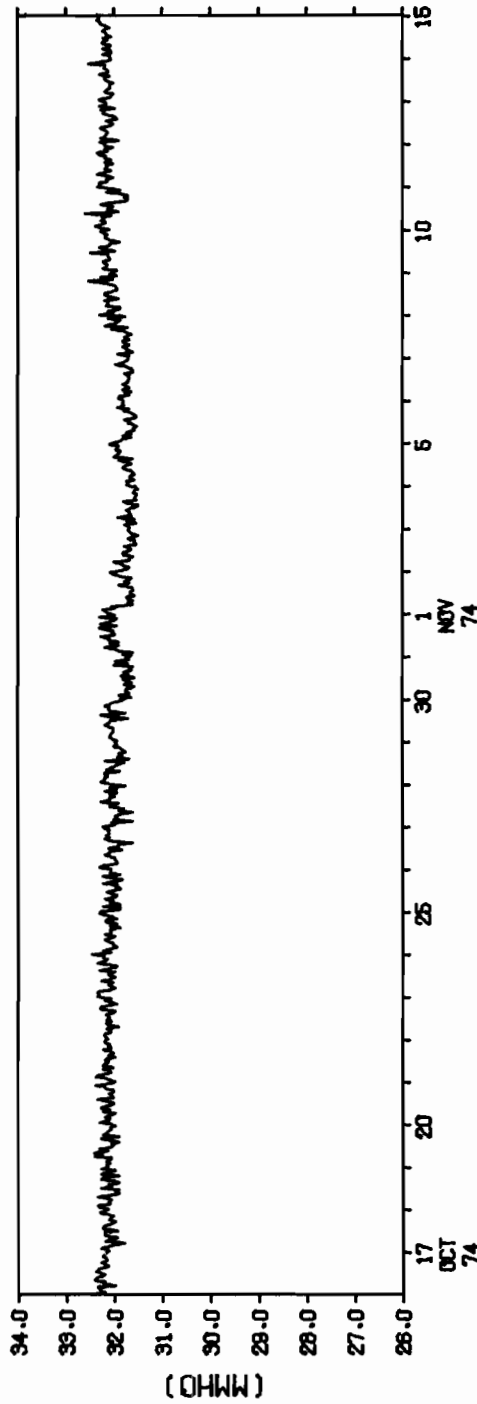
CONDUCTIVITY STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
DEPTH 178.0 METERS            NUMBER OF OBSERVATIONS = 2880  
OBSERVATION PERIOD 60.0 DAYS FROM 0036 GMT 16 OCT 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
32.14	.07	.26	-.62	4.40	33.02	30.11



C.4. TIME SERIES ANALYSIS Current Meter 600 Part 2 of 3 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 178.0 METERS.

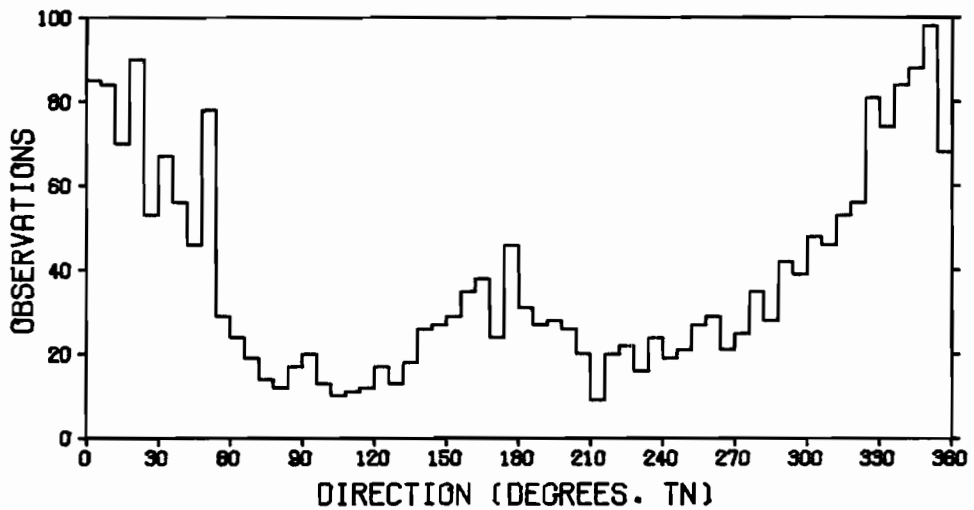
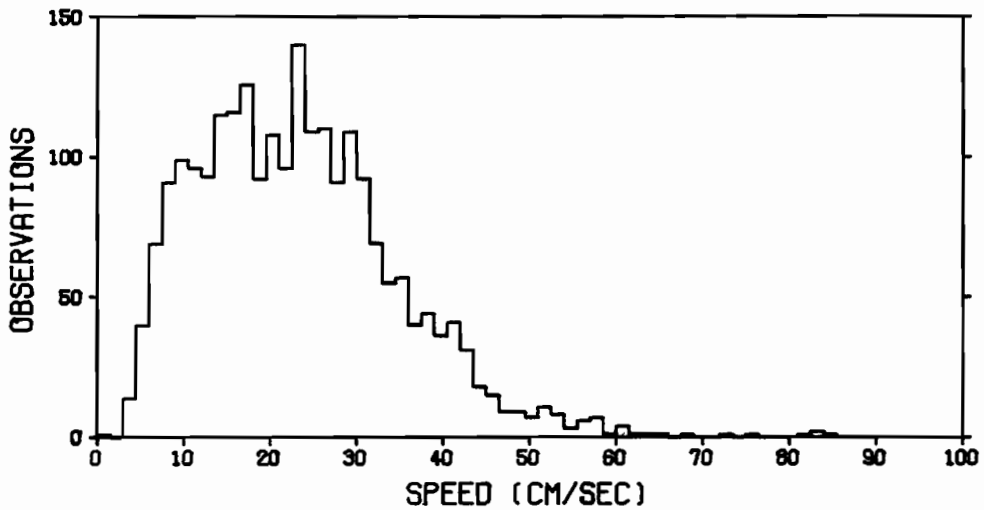


C.4. TIME SERIES ANALYSIS Current Meter 600 Nominal Depth: 178m  
 Part 3 of 3; 16 December 1974 - 2 February 1975

Mooring Designation NEG0A 62A  
 Location: 59° 34.4'N 142° 10.5'W  
 Sensors: Speed, Direction, Temperature, Conductivity

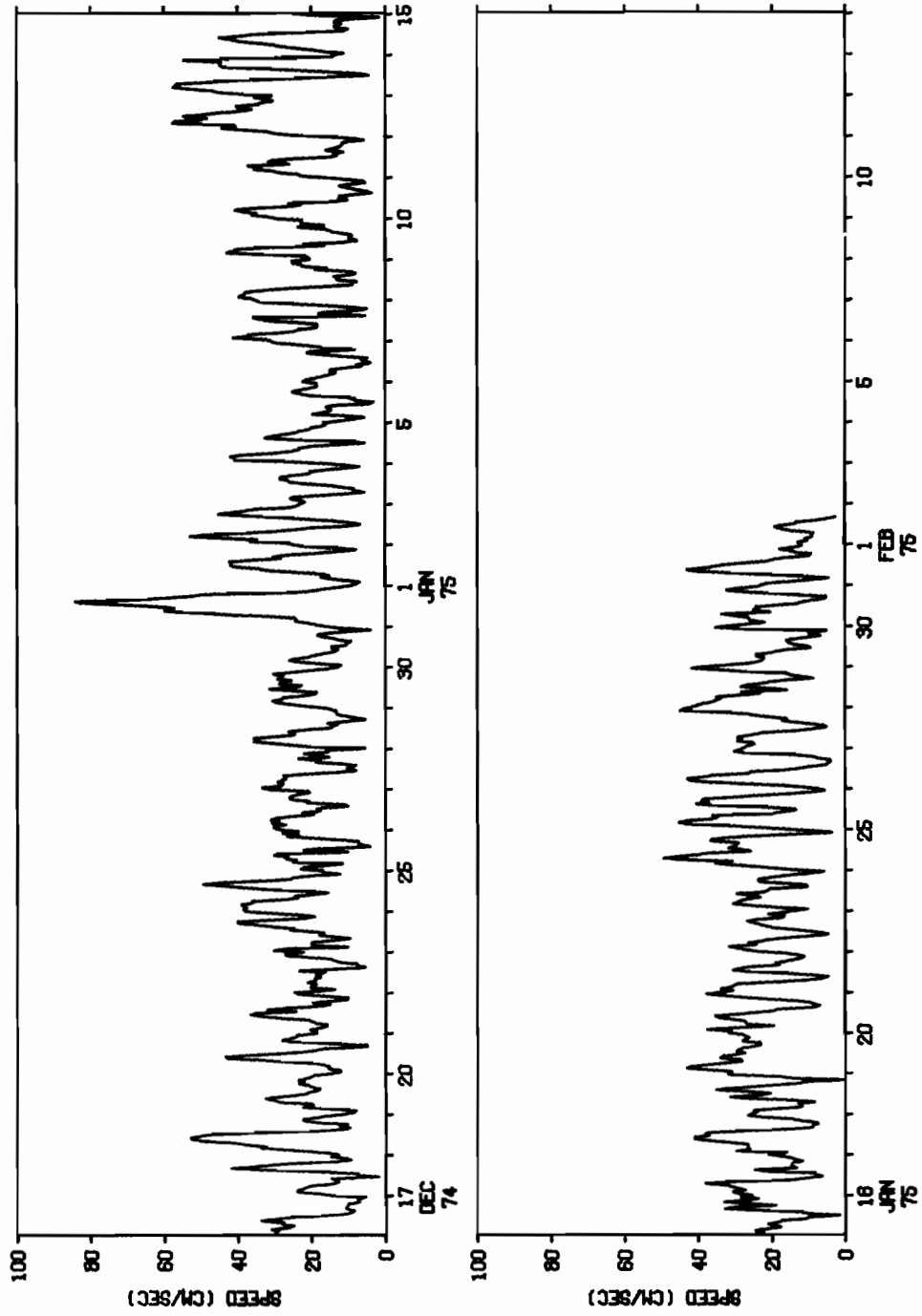
	MEAN (CM/SEC)	VARIANCE (CM/SEC) <sup>2</sup>	ST-DEV (CM/SEC)	SKEW	KURT	MAX (CM/SEC)	MIN (CM/SEC)
S	23.22	134.20	11.58	.862	4.42	84.71	1.09
U	-1.94	191.92	13.85	-.148	2.49	31.84	-42.16
V	9.39	389.47	19.74	-.102	3.01	83.99	-46.69

S = SPEED  
 U = EAST-WEST COMPONENT OF VELOCITY, EAST = POSITIVE U  
 V = NORTH-SOUTH COMPONENT OF VELOCITY, NORTH = POSITIVE V



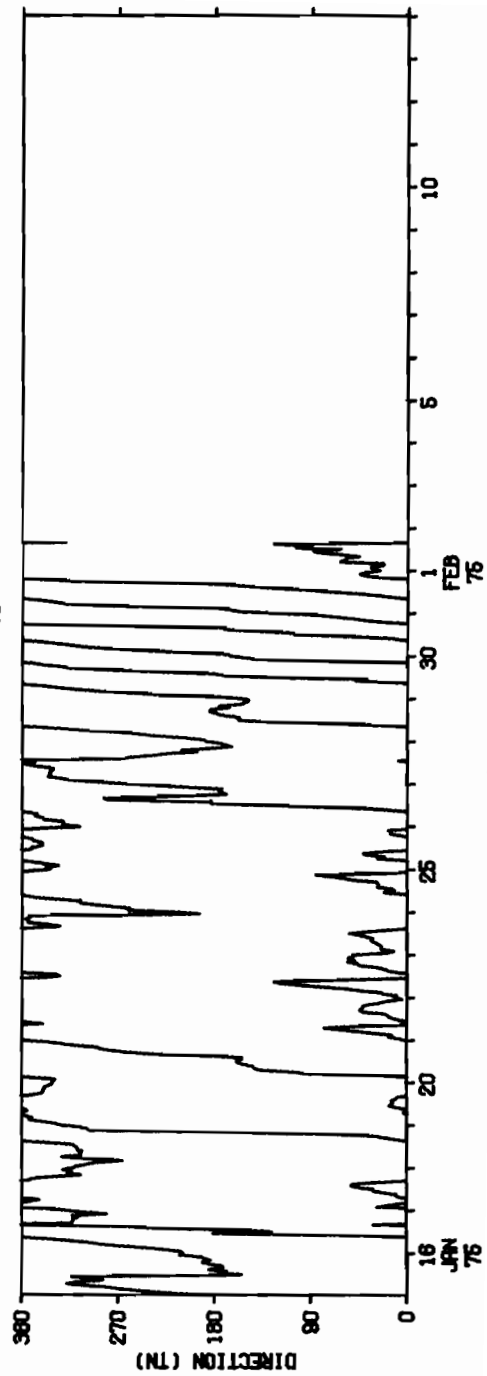
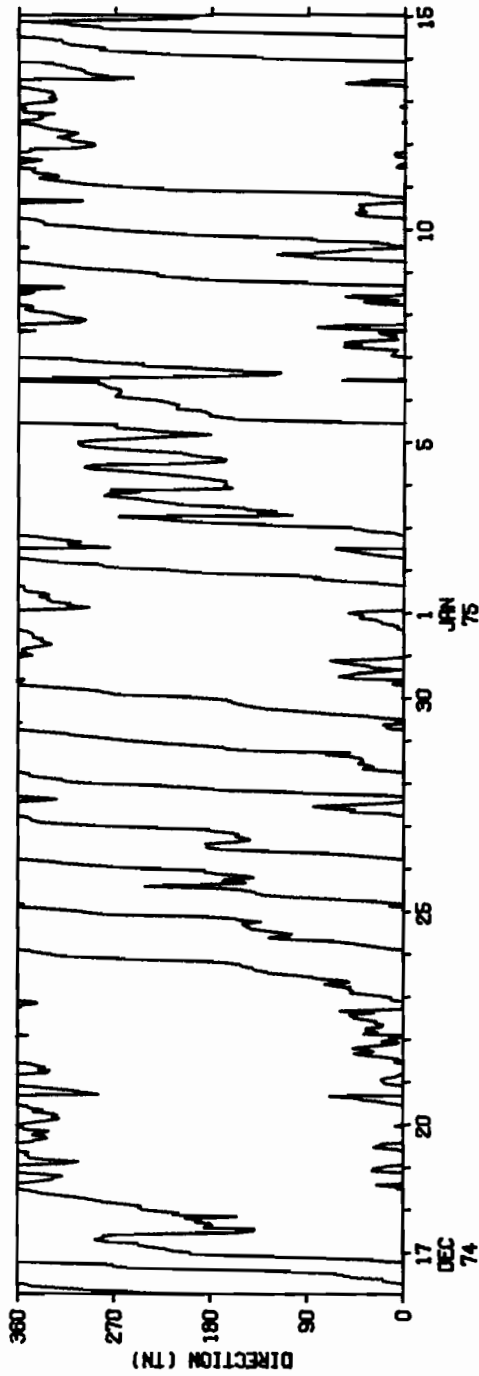
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 3 of 3 (Continued)

HOURLY VECTOR AVERAGES OF SPEED.  
DEPTH 178.0 METERS.



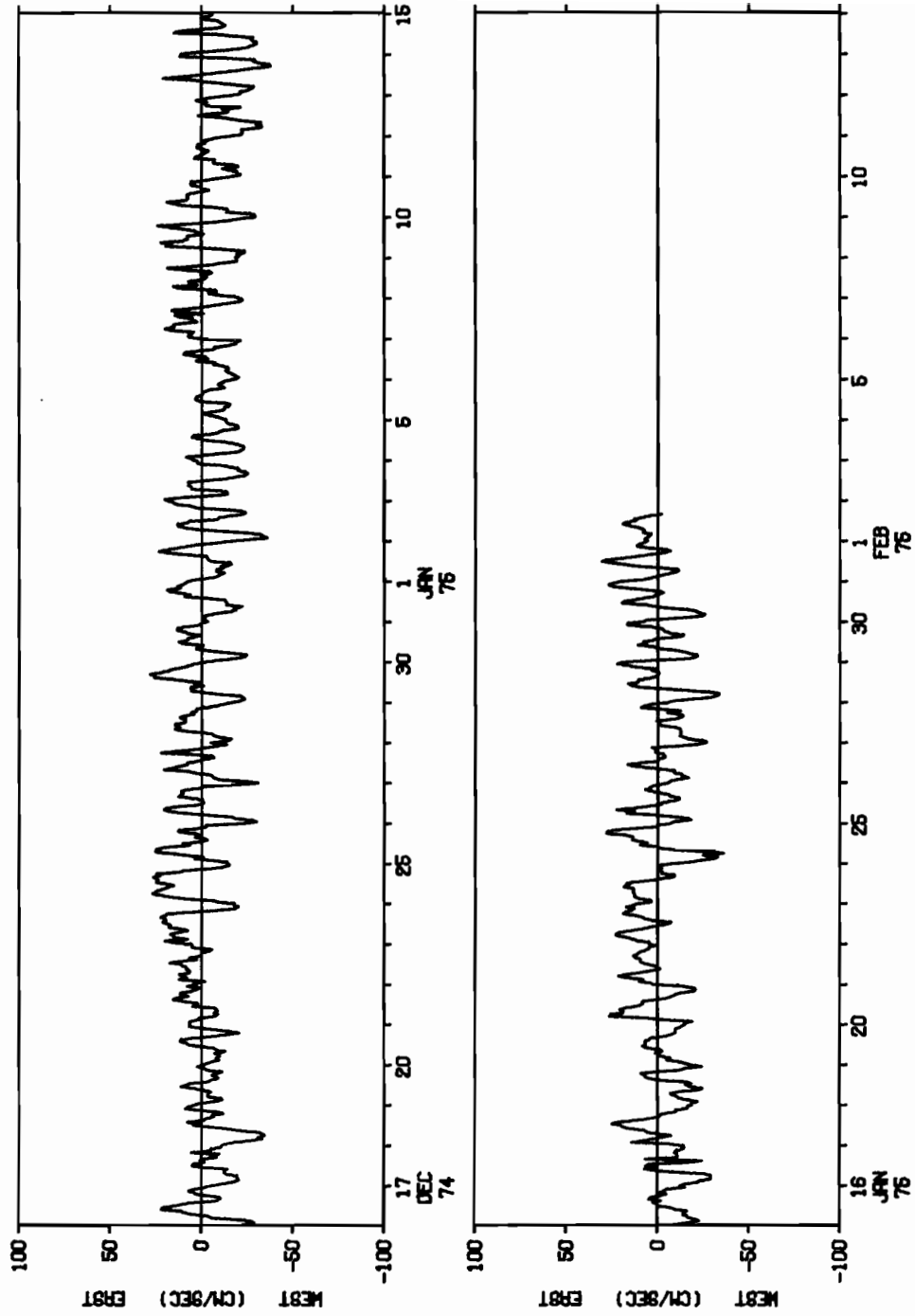
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 3 of 3 (Continued)

HOURLY VECTOR AVERAGES OF DIRECTION.  
DEPTH 178.0 METERS.



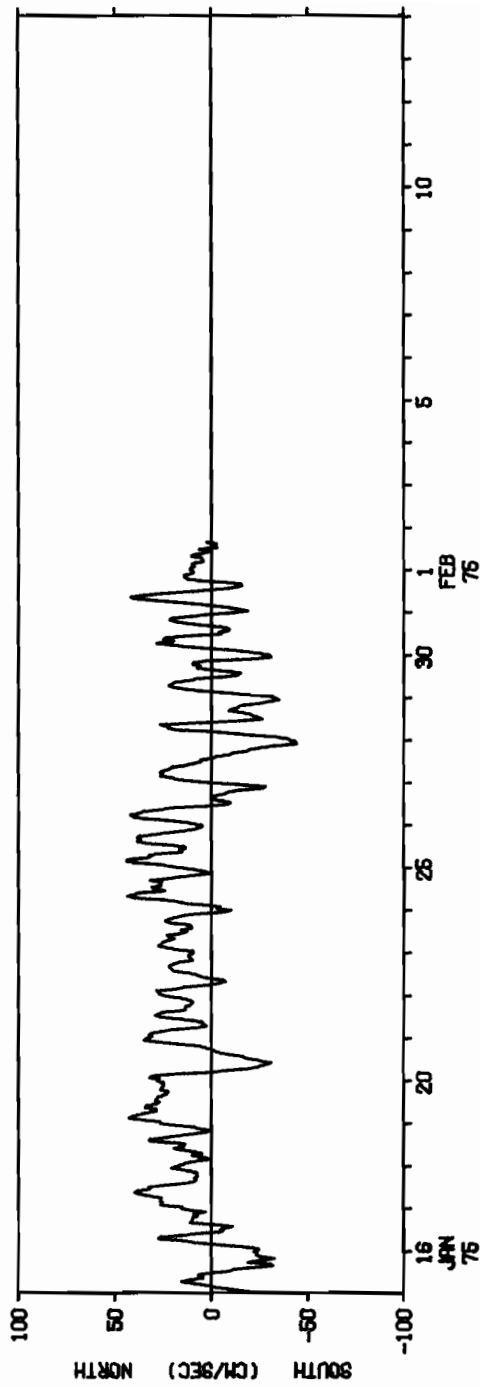
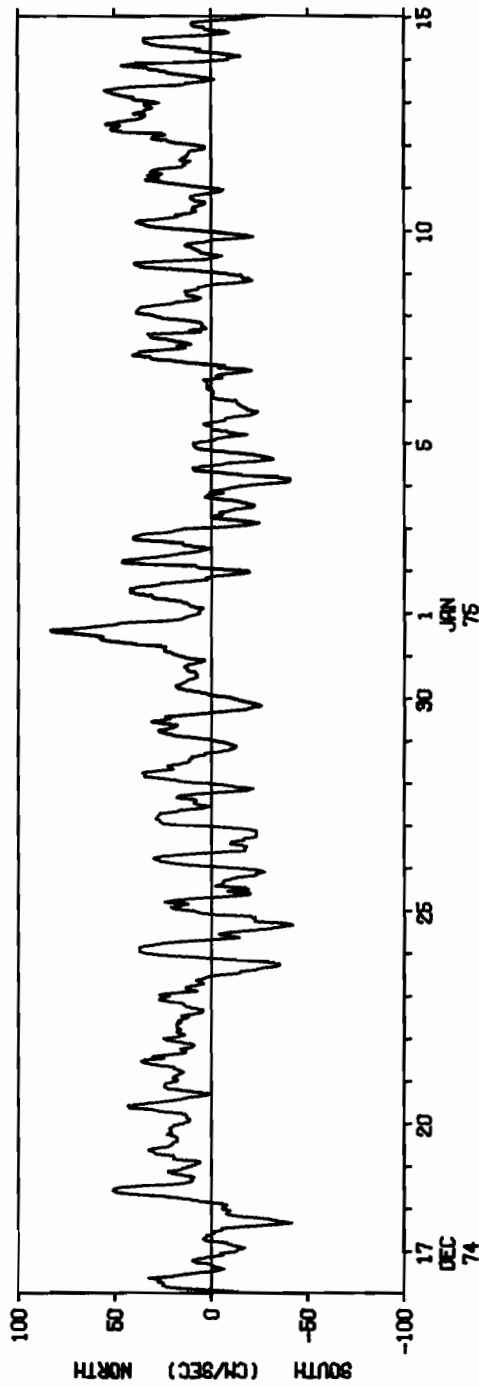
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 3 of 3 (Continued)

HOURLY AVERAGES OF EAST-WEST COMPONENTS OF CURRENT VELOCITY  
DEPTH 178.0 METERS.



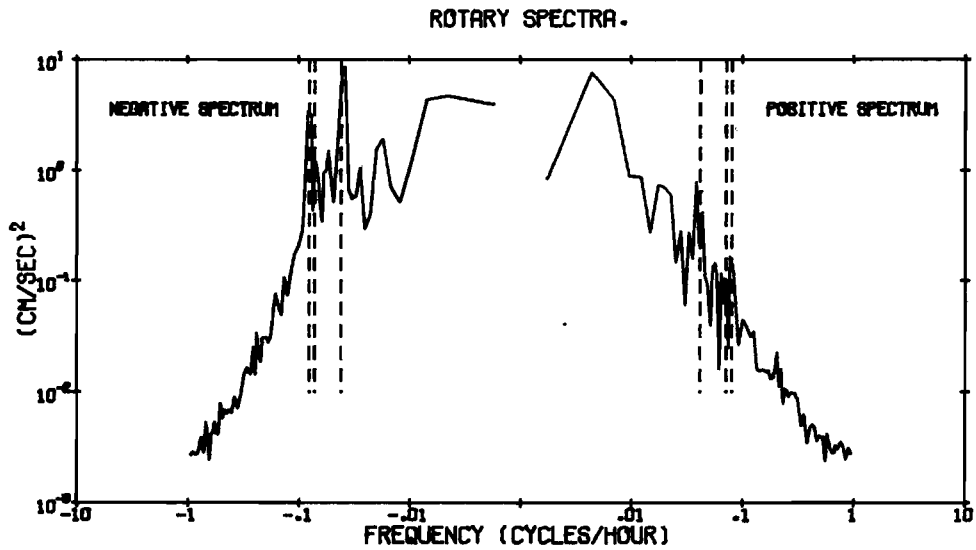
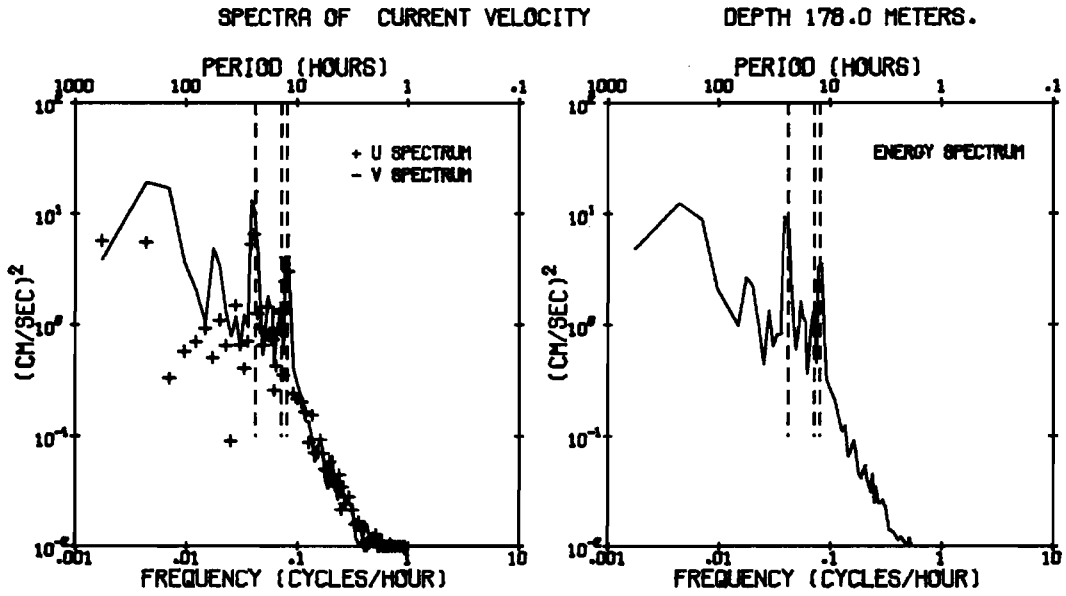
C.4. TIME SERIES ANALYSIS Current Meter 600 Part 3 of 3 (Continued)

HOURLY AVERAGES OF NORTH-SOUTH COMPONENTS OF CURRENT VELOCITY  
DEPTH 178.0 METERS.



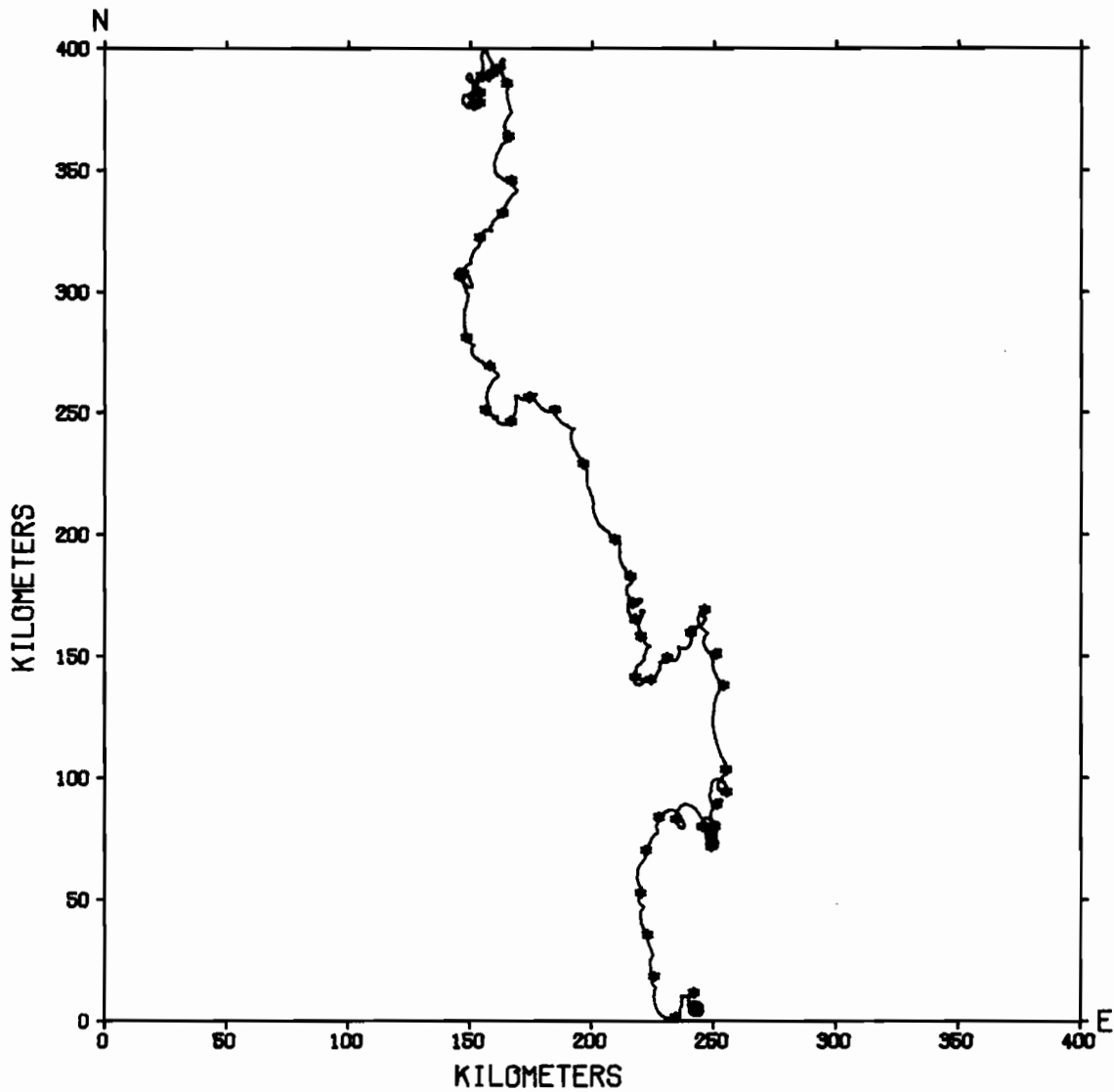


C.4. TIME SERIES ANALYSIS Current Meter 600  
 Part 3 of 3 (Continued)



C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 3 of 3 (Continued)

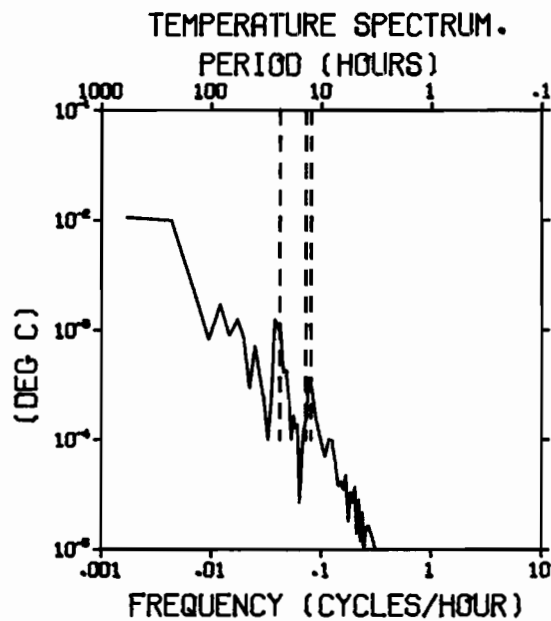
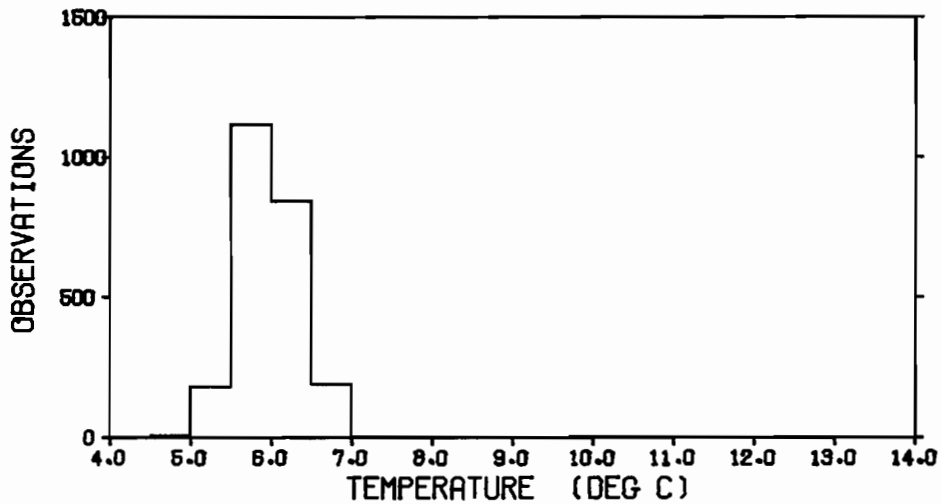
PROGRESSIVE VECTOR DIAGRAM OF HOURLY AVERAGES OF NEGORA - 62A  
OBSERVATION PERIOD 47.7 DAYS FROM 0036 GMT 16 DEC 74.  
DEPTH 178.0 METERS.



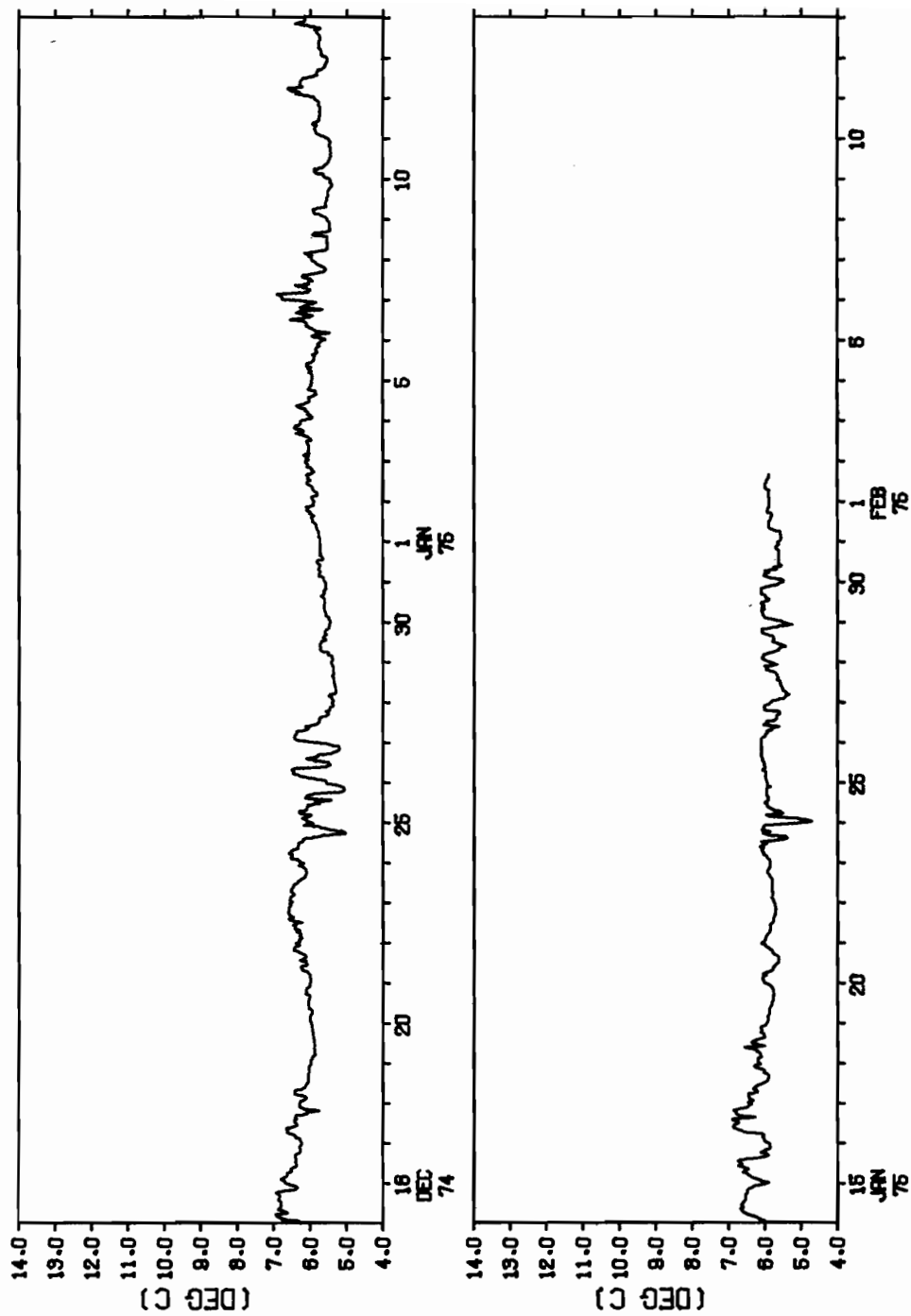
C.4. TIME SERIES ANALYSIS Current Meter: 600  
Part 3 of 3 (Continued)

TEMPERATURE STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
DEPTH 178.0 METERS            NUMBER OF OBSERVATIONS = 2337  
OBSERVATION PERIOD 48.7 DAYS FROM 0036 GMT 15 DEC 74

MEAN (DEG C)	VARIANCE (DEG C)	ST-DEV (DEG C)	SKREW	KURT	MAX (DEG C)	MIN (DEG C)
5.96	.13	.35	.26	3.16	7.03	4.64



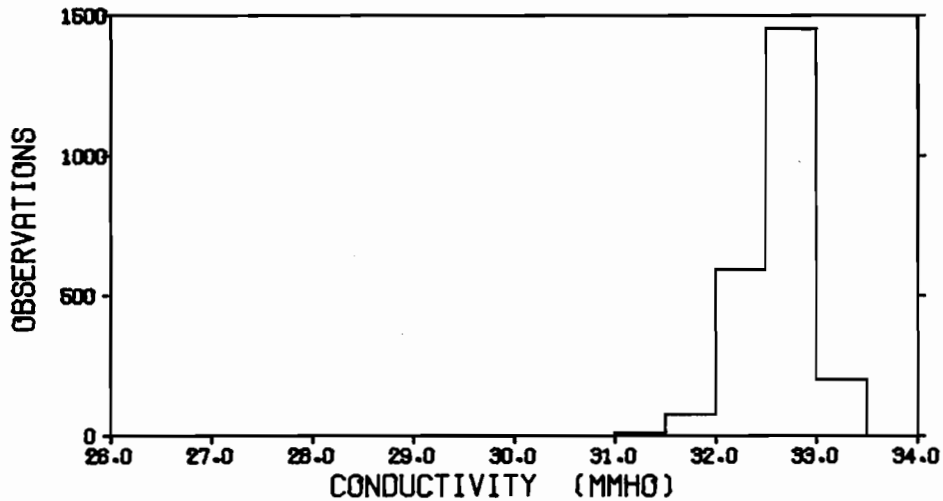
HOURLY AVERAGES OF TEMPERATURE DEPTH 178.0 METERS.



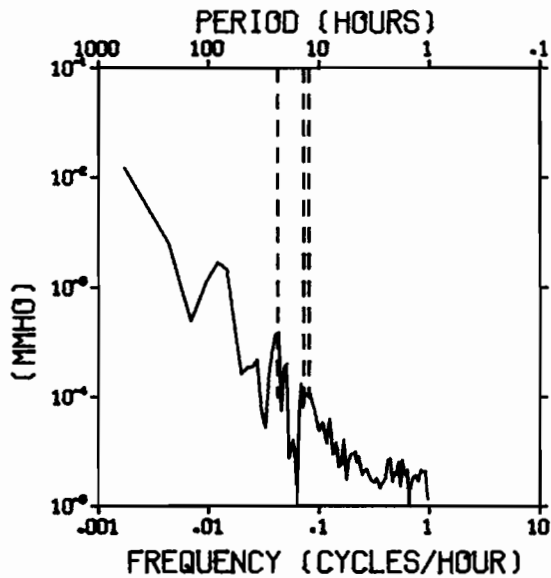
C.4. TIME SERIES ANALYSIS Current Meter 600  
Part 3 of 3 (Continued)

CONDUCTIVITY STATISTICS      LAT. 59 34.4N    LONG. 142 10.5W  
DEPTH 178.0 METERS            NUMBER OF OBSERVATIONS = 2337  
OBSERVATION PERIOD 48.7 DAYS FROM 0036 GMT 15 DEC 74

MEAN (MMHO)	VARIANCE (MMHO)	ST-DEV (MMHO)	SKEW	KURT	MAX (MMHO)	MIN (MMHO)
32.59	.09	.31	-.53	4.36	33.47	31.01



CONDUCTIVITY SPECTRUM.



C.4. TIME SERIES ANALYSIS Current Meter 600 Part 3 of 3 (Continued)

HOURLY AVERAGES OF CONDUCTIVITY DEPTH 178.0 METERS.

