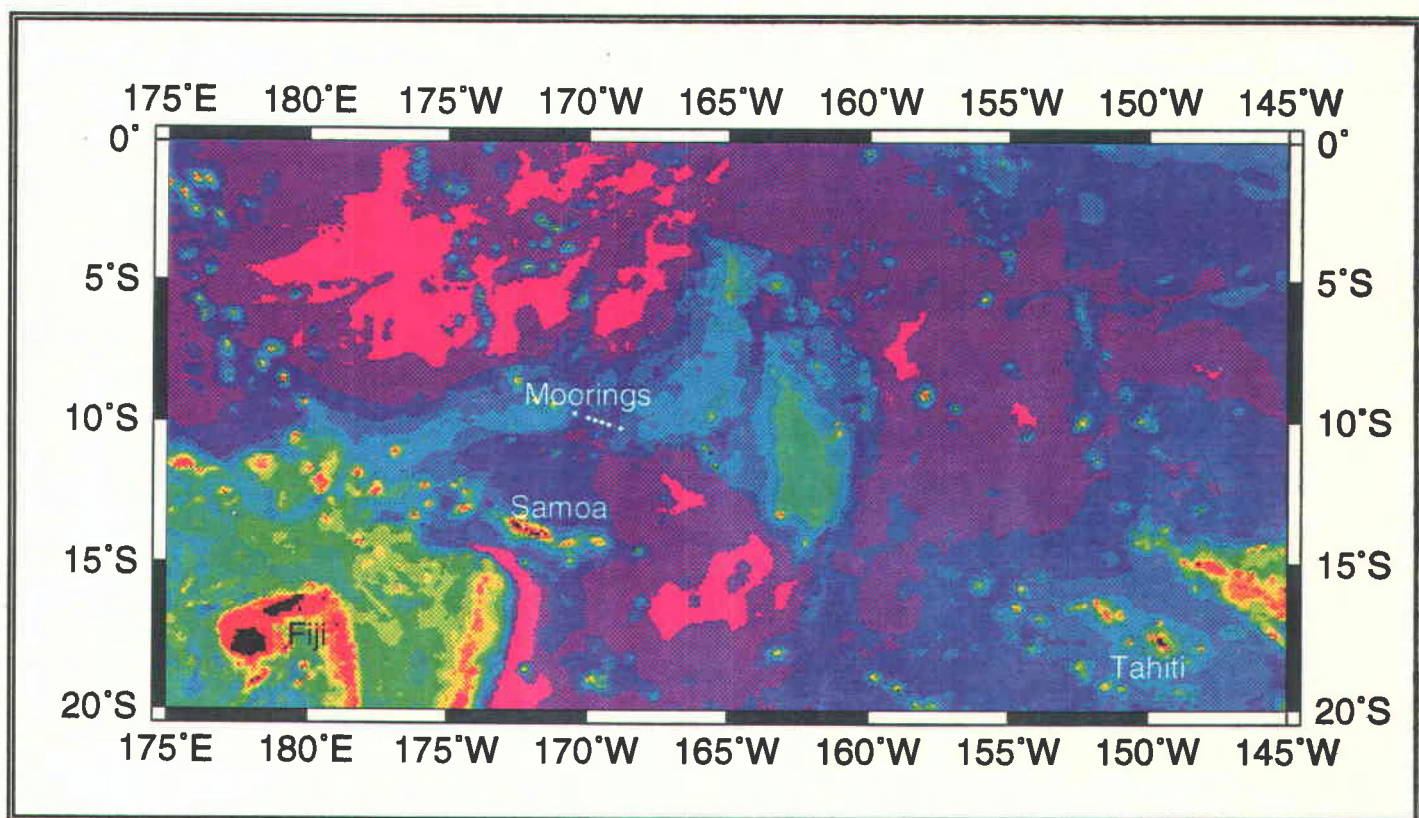


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Current Meter Data from the Samoan Passage Experiment:

World Ocean Circulation Experiment Current Meter Array PCM-11.
September 1992 - February 1994



by

R. Dale Pillsbury, Daniel L. Rudnick, J.M. Bottero, G. Pittock, D.C. Root,
J. Simpkins III and R. E. Still

National Science Foundation
OCE-9496015

Data Report 159
Reference 95-1
January, 1995

College of Oceanic and Atmospheric Sciences
Oregon State University
Corvallis, Oregon 97331

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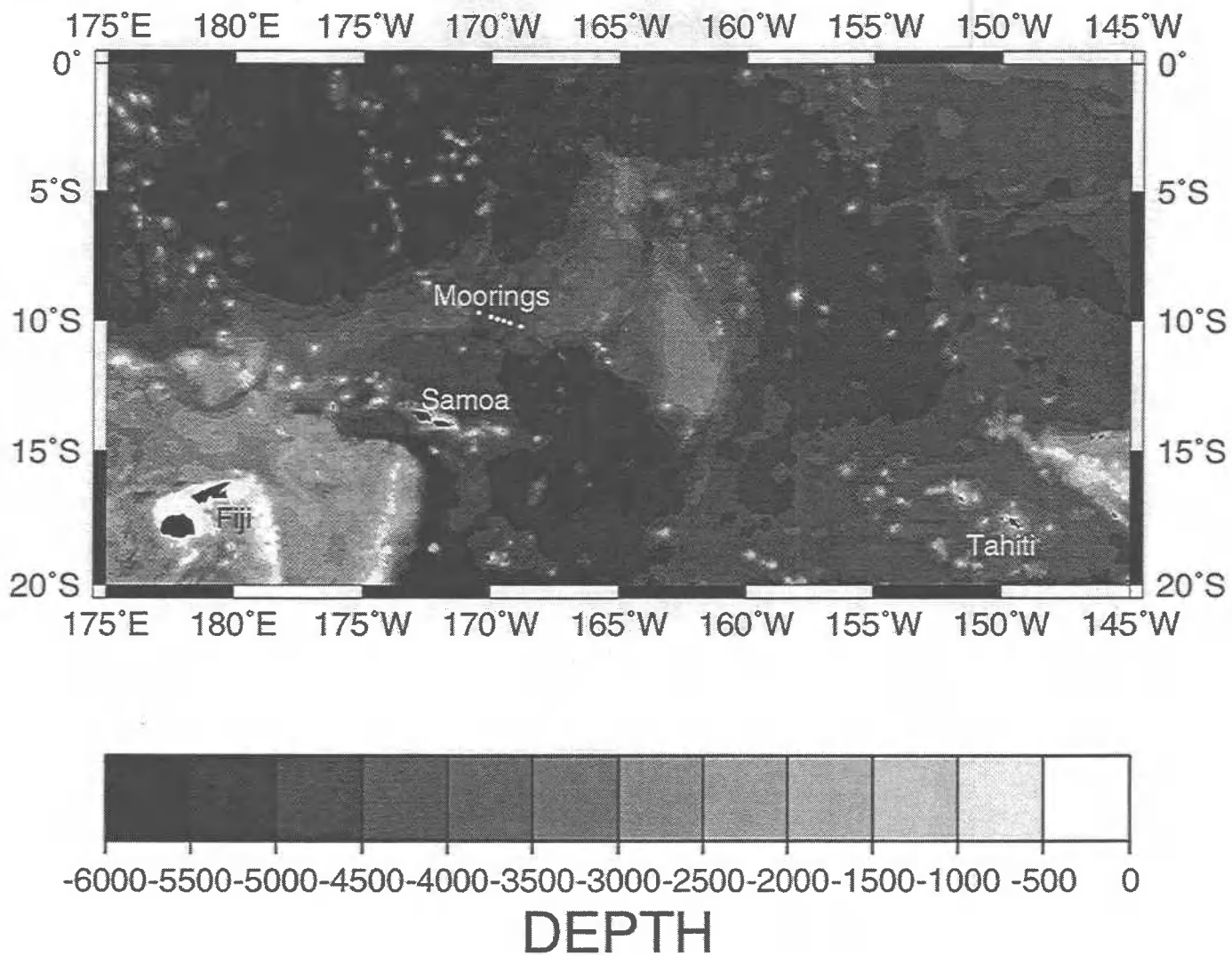


Figure 1. Mooring locations (white circles) in the Samoan Passage plotted on top of ETOPIO5 bathymetry.

INTRODUCTION

The Samoan Passage experiment was designed to determine the northward transport of abyssal water through the Samoan Passage (10°S, 170°W). This topographic constriction forms the major connection for deep (>4000 m) interbasin flow between hemispheres in the Pacific (Figure 1). This report presents current meter data from the six subsurface moorings deployed in the Samoan Passage in September 1992 and recovered February 1994.

The six subsurface moorings were deployed along a transect in the Samoan Passage (Figure 2). A total of twenty-seven current meters were attached, each measuring horizontal current and temperature, with the upper two meters on each mooring measuring pressure. All instrumentation was recovered. Instrument 5872, the top meter on mooring two experienced an electronic board failure after 5 days and stopped recording data. The pressure sensor on instrument 4412, 2990 m on mooring 1, abruptly changed levels several times, and the temperature record from instrument 5856, 2970 m on mooring six, malfunctioned after 9 months. The compass on instrument 7769 (4900 m on mooring three) failed its post-cruise calibration. It appears that the failure occurred approximately one-fourth of the way through the deployment. Because the data are vector-averages, both speed and direction are suspect. The quality of the remaining records was excellent.

The Samoan Passage current meter array contributes to the World Ocean Circulation experiment and is identified by that program as PCM-11.

SAMPLING AND PROCESSING INFORMATION

All moorings were instrumented with Aanderaa RCM 8 current meters (equipped with RCM-5 Savonius rotors and vanes) to record speed, direction, and temperature, with some meters equipped to record pressure.

The current meter recording interval was set to 60 minutes. During the recording interval the number of rotor revolutions and compass directions are sampled 50 times. The combined data represents a current vector, its magnitude given by the rotor revolutions and its direction by the compass reading. The vector is resolved into two components, East-West and North-South. Successive components are added and intermediately stored. When the selected recording interval has elapsed, the resulting vector-averaged speed and direction are calculated and recorded (Aanderaa Instruments, 1990).

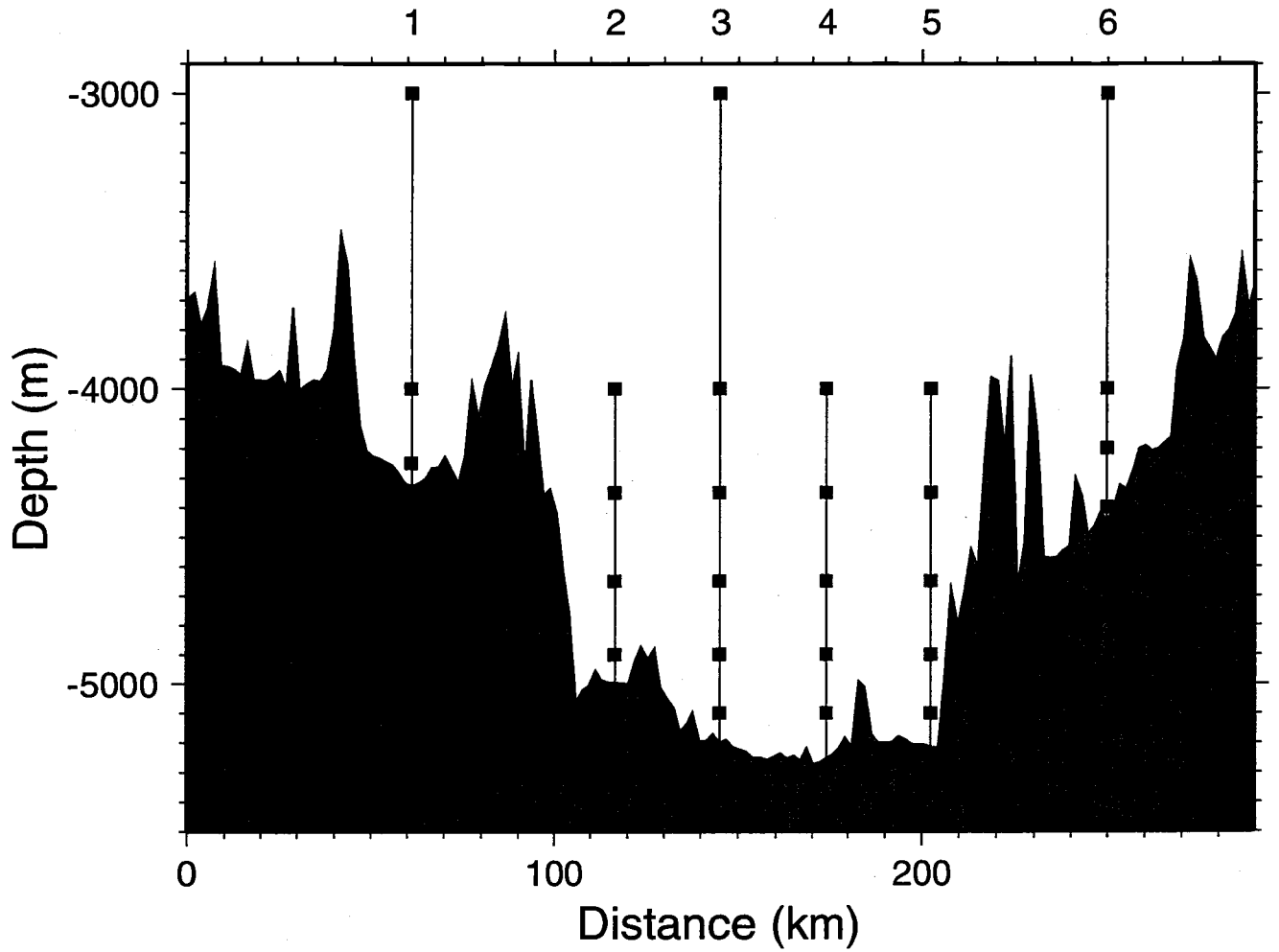


Figure 2. The current meter array in the Samoan Passage and the underway bathymetry. The perspective is looking northward and mooring numbers are indicated above. The squares indicate locations of current meters.

The nominal threshold of the Savonius rotor on the OSU Buoy group Aanderaa current meters is 1.86 cm/sec. In processing, a zero in the speed sensor is set equal to 0.93 cm/sec, i.e., half the threshold. Temperature, and pressure are instantaneous measurements at the end of the sample interval.

Data from the current meter data storage units are stored as binary numbers in the range [0, 1023] and each data record is assigned a time in Universal Coordinated Time (UCT). This product is termed as the dated raw file. The sensors are routinely calibrated before and after deployment. The dated raw file, together with the calibration information, is then processed into metric units. Smith, et al. (1986) reviewed the calibration procedure used by the OSU Buoy Group with Aanderaa current meters. To form the Low-Passed records, the hourly records were filtered with a 180 + 1 + 180 point Cosine-Lanczos filter with half-amplitude at 100 hours and half-power at 115 hours. The data are then resampled at 6-hour intervals.

Depths were obtained by one of two methods. Meters equipped with pressure sensors were assigned depths corresponding to the minimum pressure recorded. The minimum pressure was determined from unfiltered data. Conversion from pressure units to depth units, i. e. from decibars to meters, was done with a relationship developed by Professor J. L. Reid of Scripps Institution of Oceanography:

$$Z(m) = (0.992446)P - (2.28717 \times 10^{-6})P^2 + (2.08213 \times 10^{-11})P^3$$

This equation is based on a world average density profile. The depths of meters that did not have pressure sensors were estimated from those that did using the mooring line lengths as determined by a computer model that calculates line tension and the amount of stretch. Again, minimum rather than average or maximum depths were estimated. Bottom depth was determined by an anchor survey conducted after deployment.

Occasional problems appear in the data as isolated spikes, absence of data, or short runs of unexplainably erratic data. Problem areas of only a few cycles were corrected by linear interpolation; those longer than a few hours were bridged. The bridging technique employs Anderson's (1974) algorithm for a predictive filter which utilizes the spectral characteristics on both sides of the gap (Smylie et al. 1973; Ulrych et al. 1973). One speed record, instrument 5862 (3980 m on mooring one) was bridged in lines 7570 through 7605 (1200 4 Aug 93 to 2300 5 Aug 93) when the speed record abruptly fell to zero and remained there. See header page for details. All corrections to the data are noted on the header pages at the beginning of each mooring section.

DATA PRESENTATION

Each of the current meter records is described in this report. The descriptions include start times and stop times, statistics for each variable, frequency histograms and spectra, and some representative time series plots of the velocity, temperature, and pressure observations.

The data are organized by mooring location. Each section begins with a mooring diagram followed by a header page showing information about the mooring, start and stop times for data and comments about the quality of each record. Any deletions or corrections to the data are listed here.

The page of statistics gives the mean, variance, and extrema for speed (s), eastward (u) and northward (v) components of the current, temperature (T), and pressure (P). Statistics for both unfiltered and filtered (Low-Passed) data are provided.

The presentation of the hourly unfiltered data begins with progressive vector diagrams, histograms, and kinetic energy spectra. The progressive vector diagrams are obtained by placing the velocity vectors tail-to-head to show the path that a particle would travel in a perfectly homogeneous flow. The squares mark the beginning of each month. The histograms of speed, direction, temperature, and pressure show the frequency of occurrence versus amplitude. Low-Passed data are presented next as time series plots. There are two series of plots for each current meter mooring: all variables (velocity vectors, u, v, temperature, and pressure at each depth on the mooring), and each variable at all depths. Velocity sticks are plotted every 48 hours.

ACKNOWLEDGMENTS

The funds for this program were provided via grant OCE-9496015 from the National Science Foundation, Physical Oceanography Program which is gratefully acknowledged. We appreciate the assistance and cooperation given by the masters and crews of the *R/V Knorr* and *R/V Thomas Thompson*, and by our seagoing colleagues and companions on the deployment and recovery cruises.

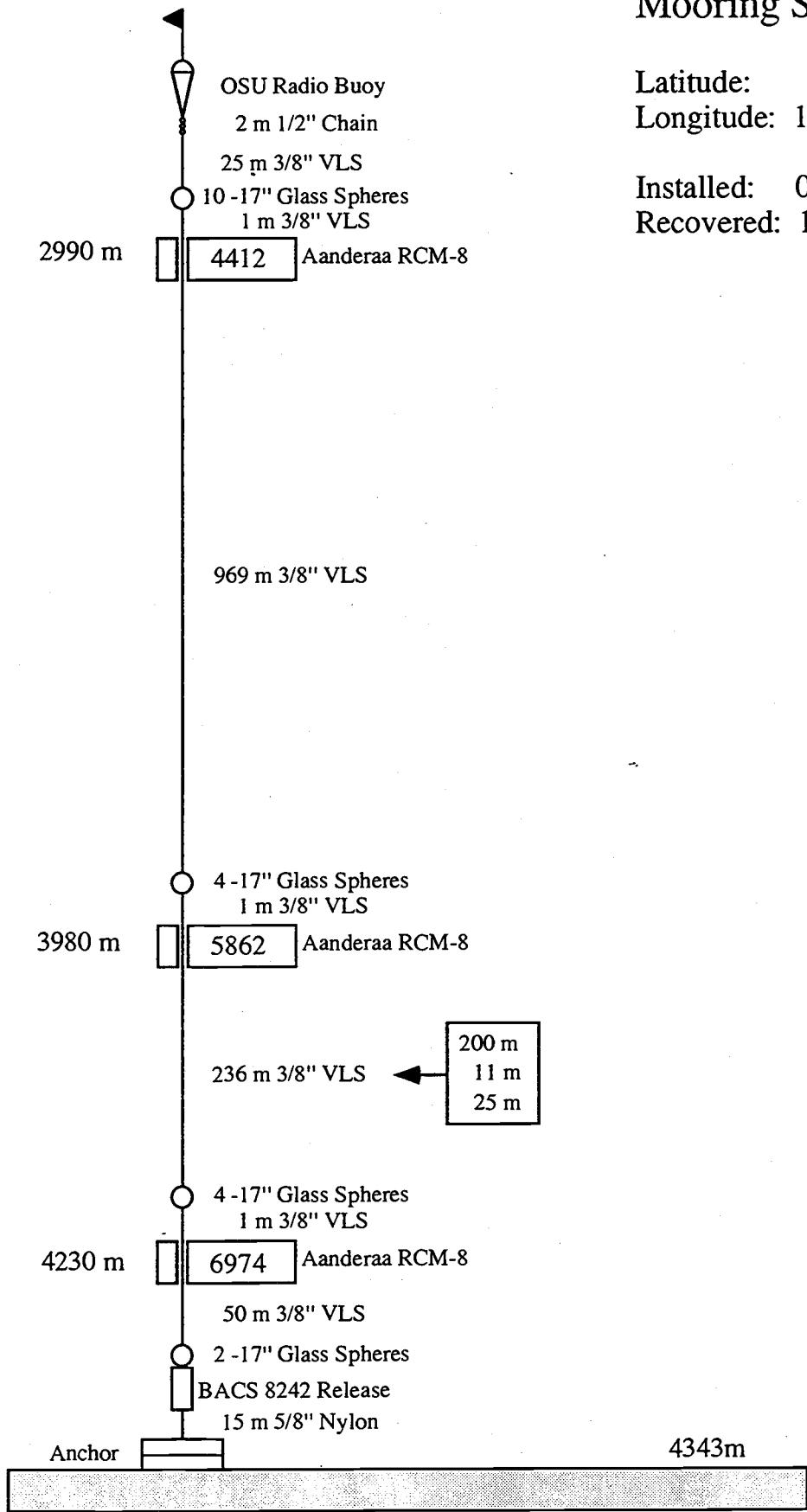
REFERENCES

- Aanderaa Instruments. Technical Description No.159, RCM 7&8, Recording Current Meter, Aanderra Instruments, Bergen, Norway.
- Anderson, N., 1974. On the calculation of filter coefficients for maximum entropy spectral analysis. *Geophysics* 39:69-72.
- Smith, R. L., G. Pittock, J. Fleischbein and R. Still. 1986. *Current measurements from moorings off Northern California: September 1984 - July 1985*. Oregon State University, College of Oceanography, Corvallis. Data Report 121, Reference 86-6.
- Smylie, D. E., G. K. C. Clarke and T. J. Ulrych. 1973. Analysis of irregularities in the earth's rotation. *Methods in Computational Phys.* 13., 391-430.
- Ulrych, T. J., D. E. Smylie, O. G. Jensen and G. K. C. Clarke. 1973. Predictive filtering and smoothing of short records by using maximum entropy. *J. Geophys. Res.* 78, 4959-4964.

Mooring SAMOA 1

Latitude: 09° 41.12' S
Longitude: 170° 28.13' W

Installed: 0047 23 Sep. '92
Recovered: 1808 24 Feb. '94



Mooring SAMOA 1.

Position: 09° 41.12 S
 170° 28.13' W
 Depth of Water: 4343m
 Mooring Set: 0047 U.C.T. 23 September 1992
 Mooring Retrieved: 1808 U.C.T. 24 February 1994
 Data Interval: 0300 U.C.T. 23 September 1992 - 1700 24 February 1994

Instrumentation:

Depth m	RCM8 Serial No./Sequence No.
2900m	4412/29
3980m	5862/20
4230m	6974/28

Instrument 4412/29 recorded speed, direction, temperature and pressure every 60 minutes. The pressure record is unreliable. It changes levels several times, up about 20 meters on 5 January 1993, down about 100 meters on 9 Jan 1993 (from 2800 m to 2900 m), and down again on 14 Dec 1993 (from 2900 m to 3025m).

Instrument 5862/20 recorded speed, direction, temperature, and pressure every 60 minutes. The speed record was bridged in lines 7570 through 7605 (1200 4 Aug 93 to 2300 5 Aug 93). A speed drop out (zeros) occurred at this time. Afterward the record looked normal and is presumed to be accurate. The cause of the drop out is unknown

Instrument 6974/28 recorded speed, direction, and temperature every 60 minutes. Good record, no corrections.

SAMOA 1.

Statistics, Hourly Unfiltered Data

2990 meters at SAMOA 1. 23 Sep 92 - 24 Feb 94. Tape 4412/29.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.43	14.89	2.01	12471
U, cm/sec	-8.56	0.78	11.56	3.10	12471
V, cm/sec	-13.14	-1.14	10.17	3.49	12471
Temp, deg c	1.61	1.67	1.71	0.01	12471
Pressure, db	2797.93	2912.55	3009.46	44.60	12471

3980 meters at SAMOA 1. 23 Sep 92 - 24 Feb 94. Tape 5862/20.

	min	mean	max	sd	num
Speed, cm/sec	0.93	8.54	20.35	2.84	12471
U, cm/sec	-12.16	-2.44	8.56	2.89	12471
V, cm/sec	-6.31	7.40	20.06	3.46	12471
Temp, deg c	1.12	1.24	1.44	0.05	12471
Pressure, db	4050.37	4056.18	4056.32	0.90	12471

4230 meters at SAMOA 1. 23 Sep 92 - 24 Feb 94. Tape 6974/28.

	min	mean	max	sd	num
Speed, cm/sec	0.93	7.15	20.35	2.62	12471
U, cm/sec	-9.28	1.77	13.21	2.90	12471
V, cm/sec	-4.56	6.18	20.24	2.88	12471
Temp, deg c	1.02	1.07	1.12	0.01	12471

SAMOA 1.
Statistics, Low Passed Data

2990 meters at SAMOA 1. 30 Sep 92 - 17 Feb 94. Tape 4412/29.

	min	mean	max	sd	num
Speed, cm/sec	0.33	2.39	4.70	1.02	2018
U, cm/sec	-2.50	0.81	3.52	1.34	2018
V, cm/sec	-4.69	-1.16	4.42	1.72	2018
Temp, deg c	1.65	1.67	1.68	0.01	2018
Pressure, db	2851.53	2912.22	3009.46	41.88	2018

3980 meters at SAMOA 1. 30 Sep 92 - 17 Feb 94. Tape 5862/20.

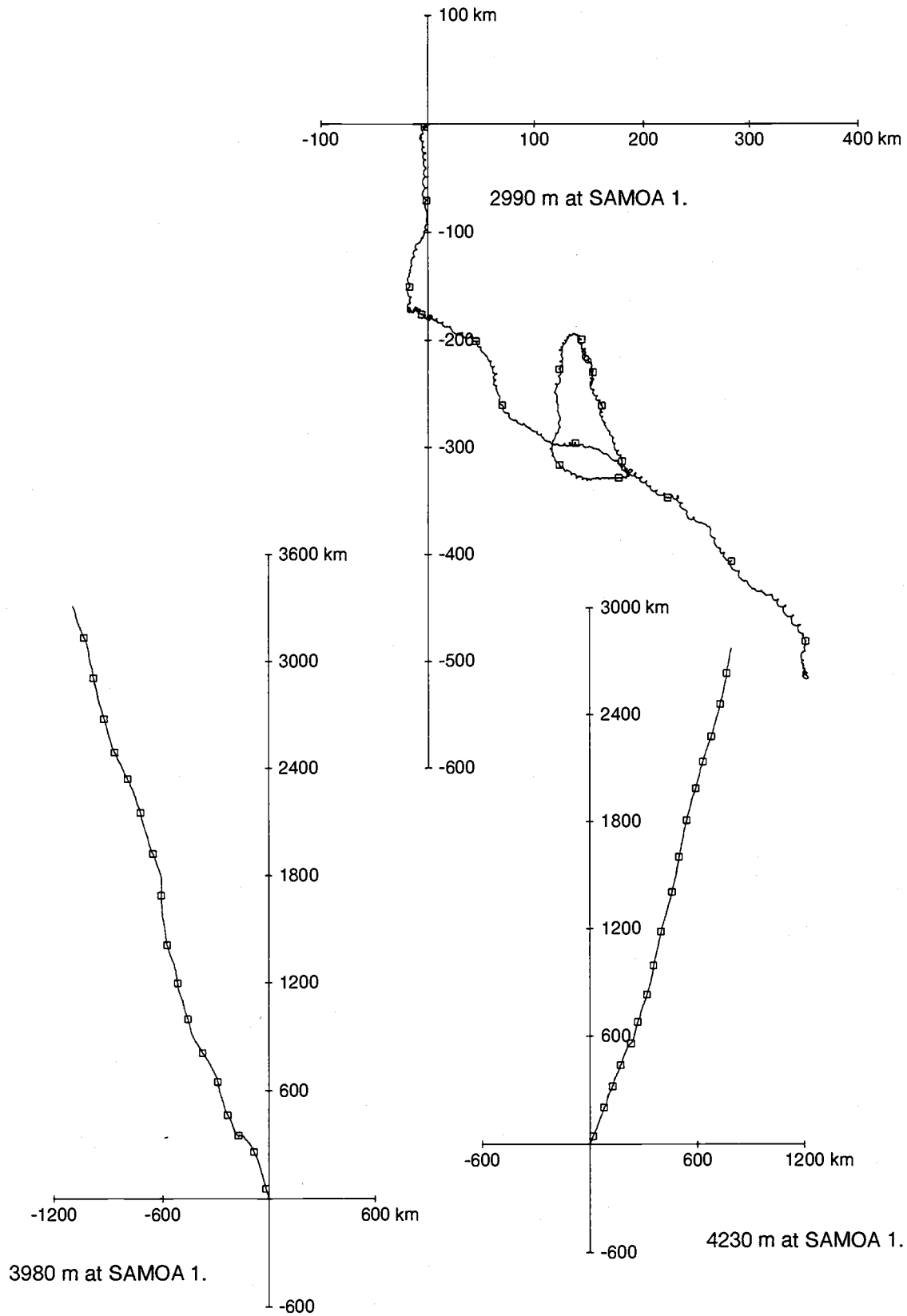
	min	mean	max	sd	num
Speed, cm/sec	0.69	7.87	11.38	1.74	2018
U, cm/sec	-4.44	-2.43	0.17	0.82	2018
V, cm/sec	-1.11	7.37	11.38	2.04	2018
Temp, deg c	1.17	1.24	1.39	0.04	2018
Pressure, db	4050.98	4056.23	4056.32	0.58	2018

4230 meters at SAMOA 1. 30 Sep 92 - 17 Feb 94. Tape 6974/28.

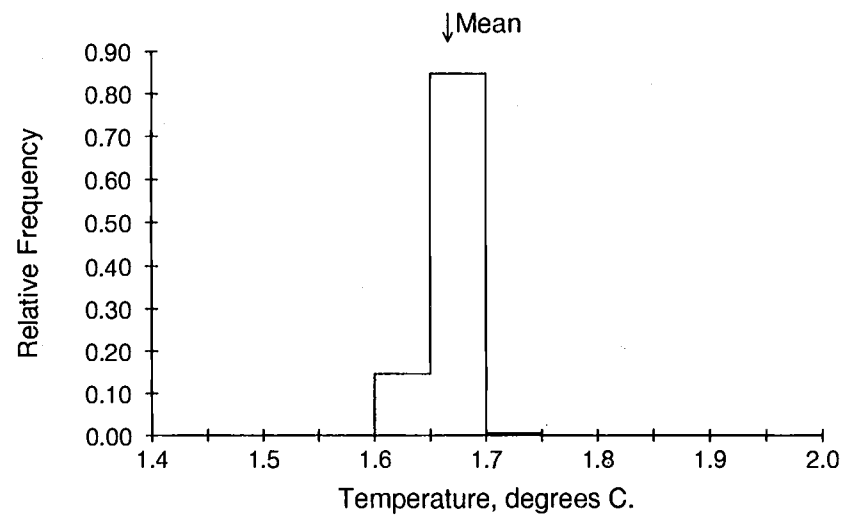
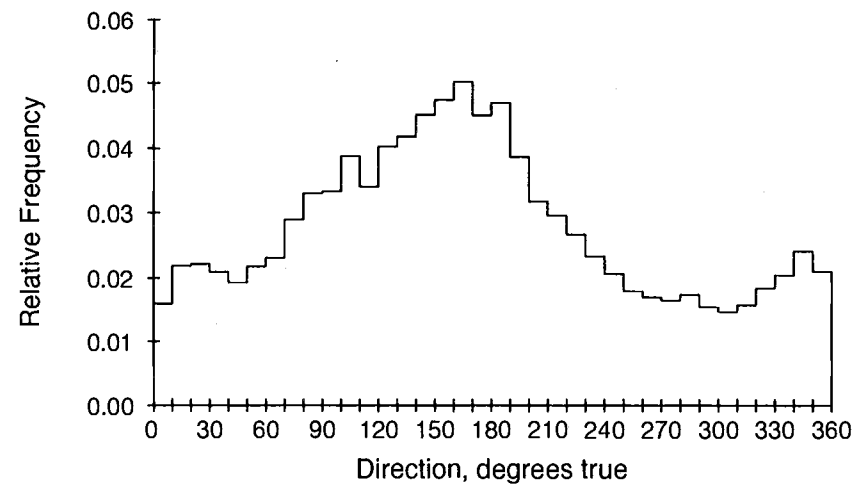
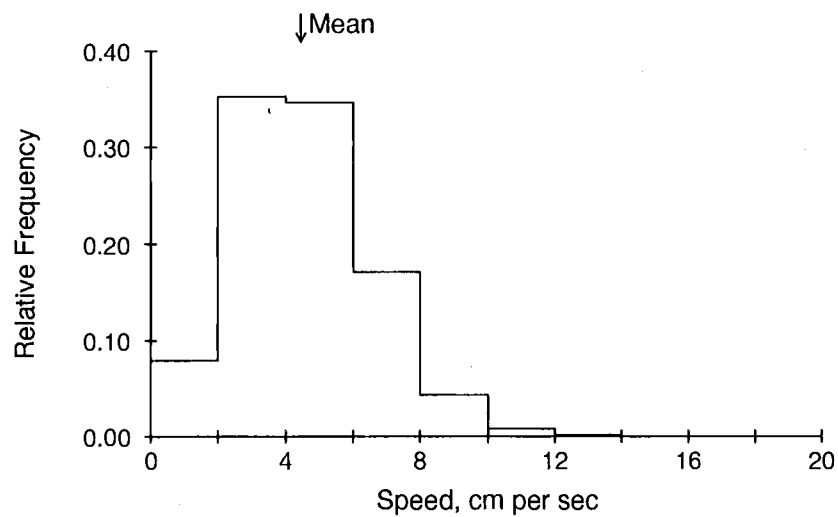
	min	mean	max	sd	num
Speed, cm/sec	1.56	6.43	9.90	1.38	2018
U, cm/sec	0.66	1.76	2.74	0.43	2018
V, cm/sec	1.38	6.16	9.64	1.42	2018
Temp, deg c	1.04	1.07	1.10	0.01	2018

Mooring SAMOA 1. 23 Sep 92 - 24 Feb 94.

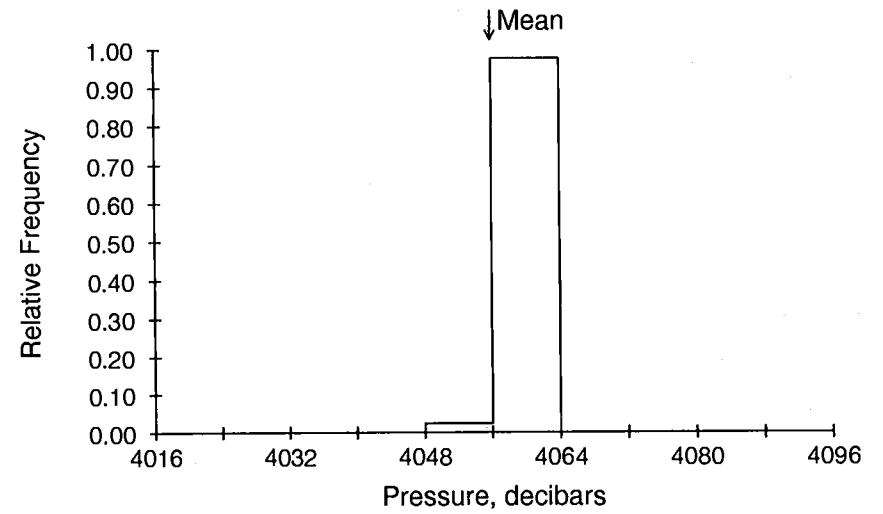
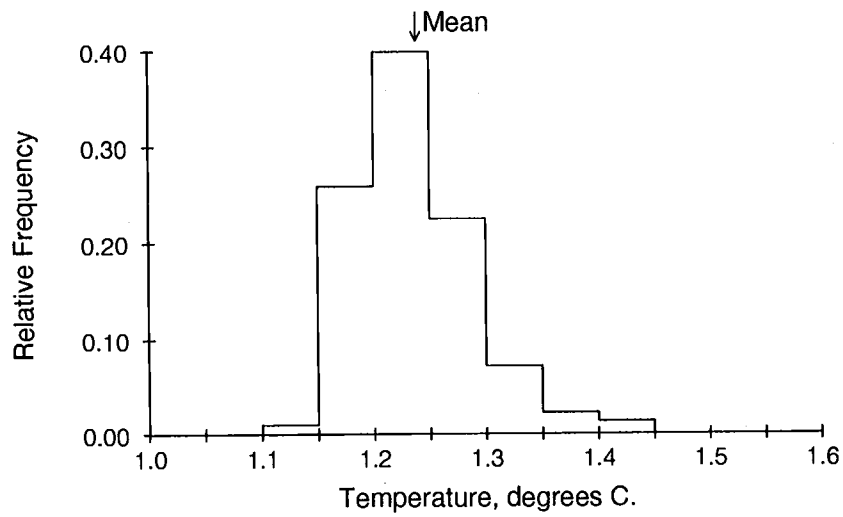
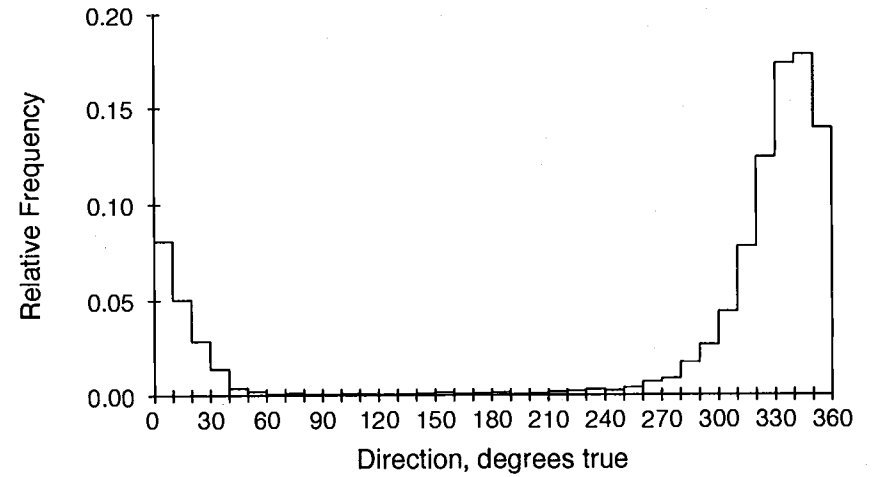
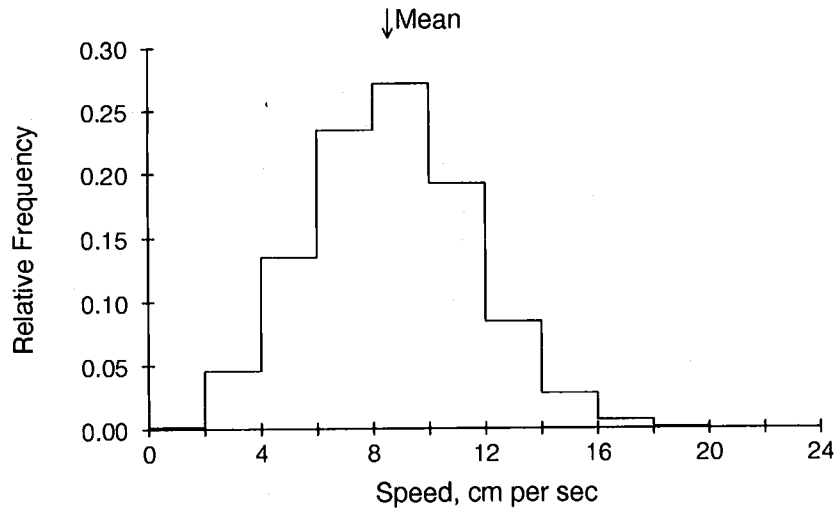
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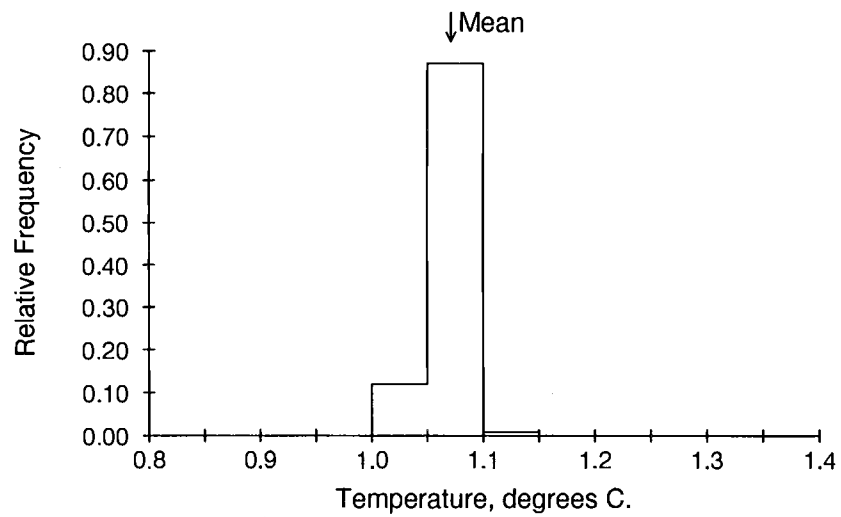
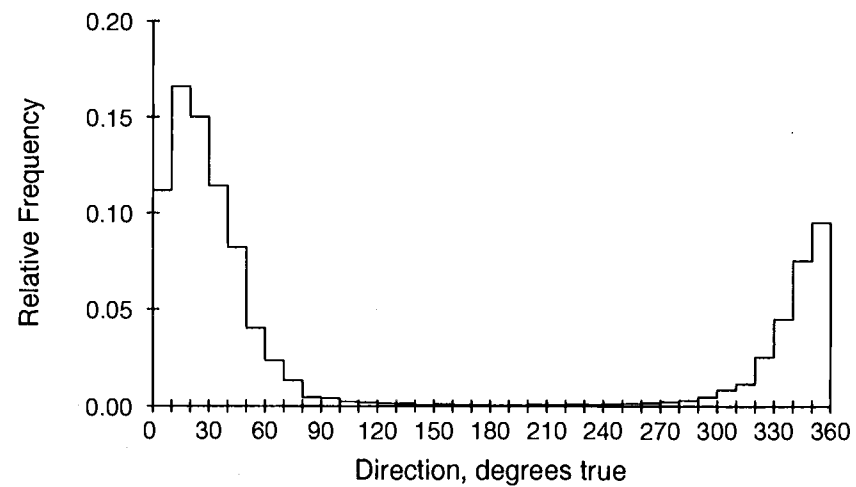
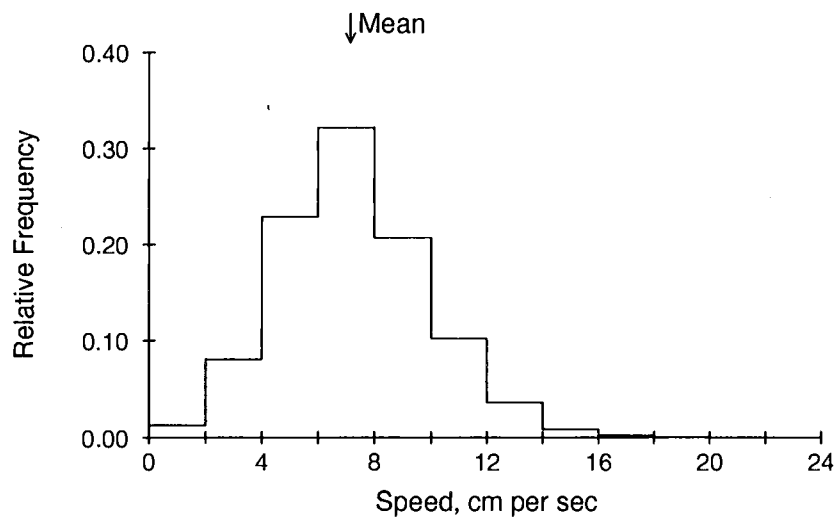
2990m at SAMOA 1. 23 Sep 92 - 24 Feb 94. RCM 4412/29.



3980m at SAMOA 1. 23 Sep 92 - 24 Feb 94. RCM 5862/20.



4230m at SAMOA 1. 23 Sep 92 - 24 Feb 94. RCM 6974/28.

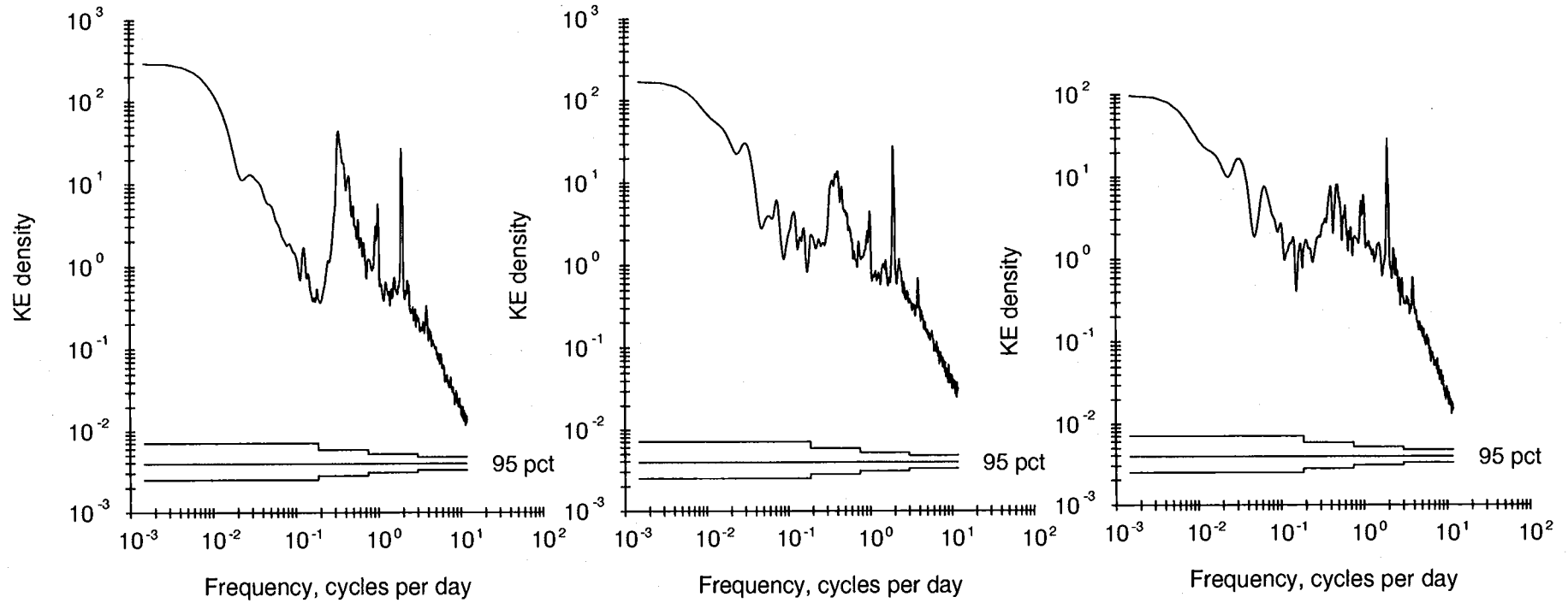


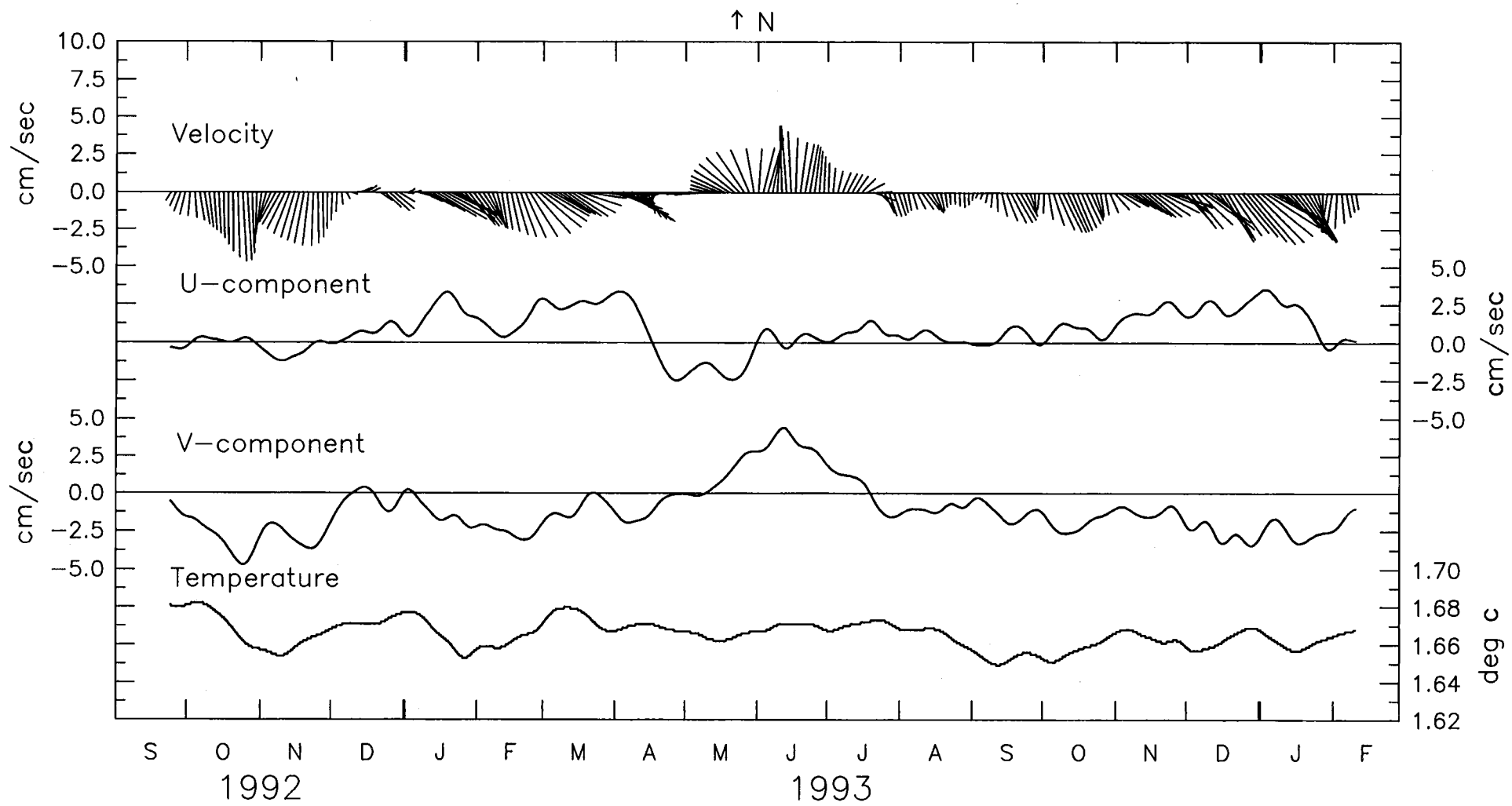
Mooring Samoa 1. Unfiltered current.

2990m

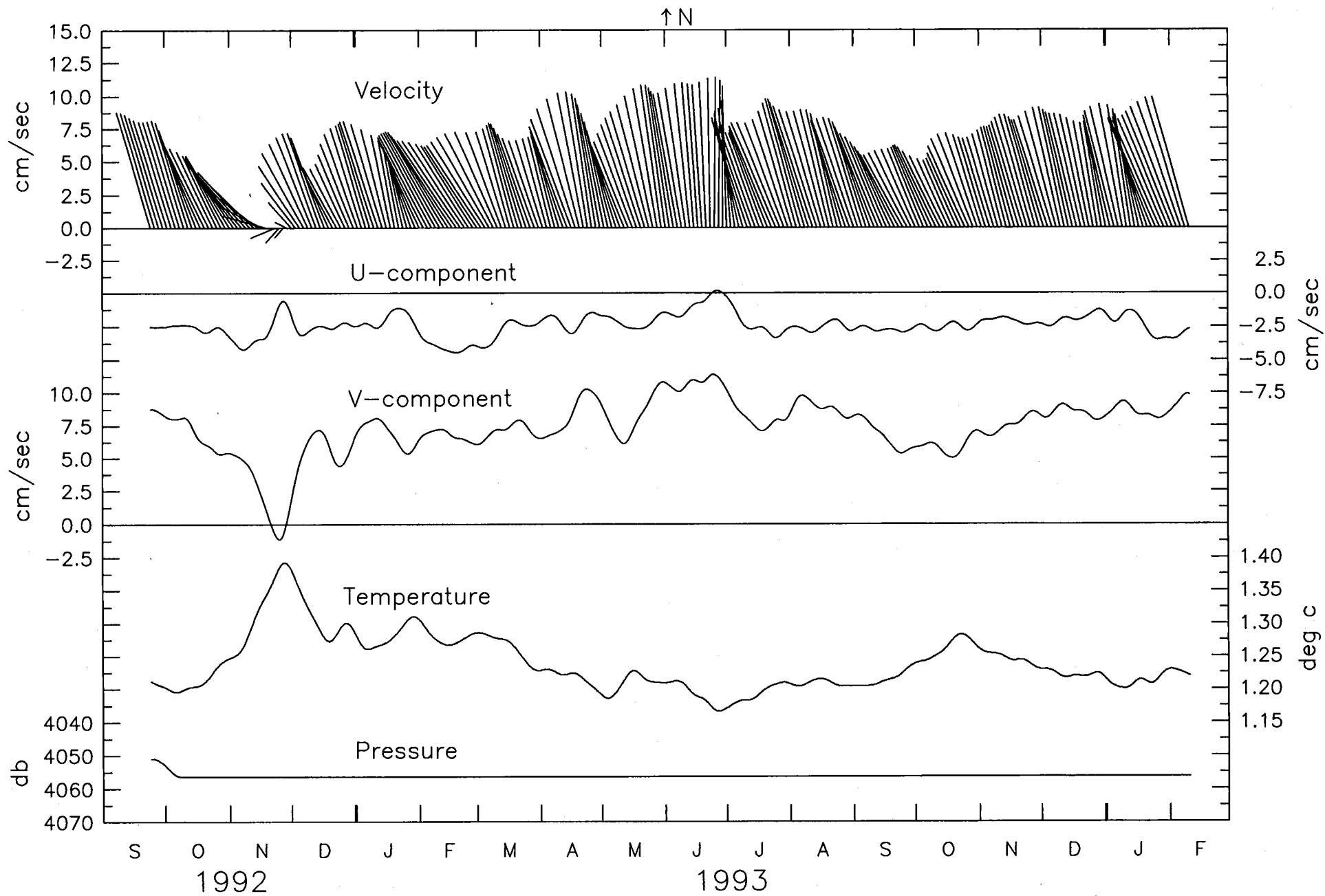
3980m

4230m

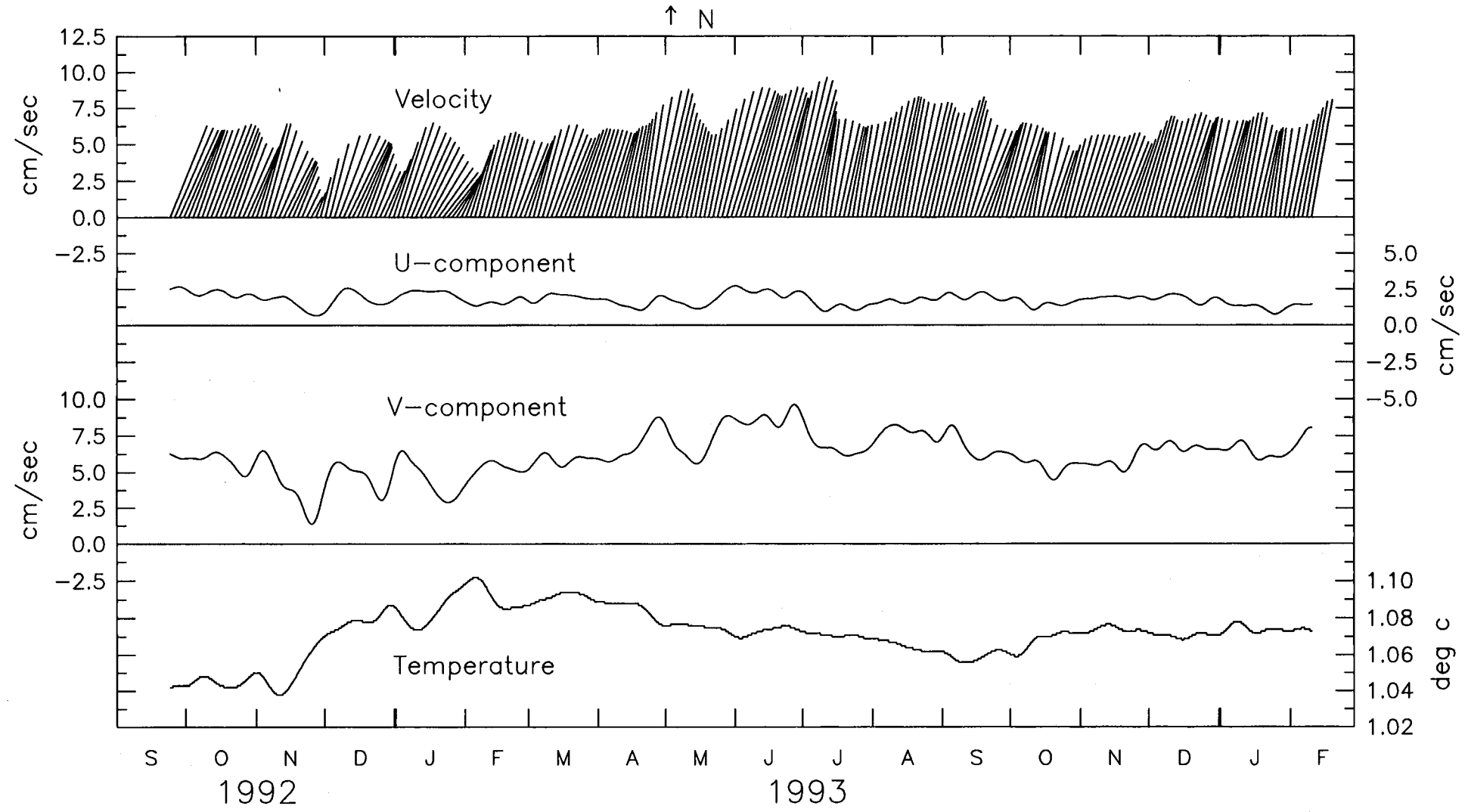




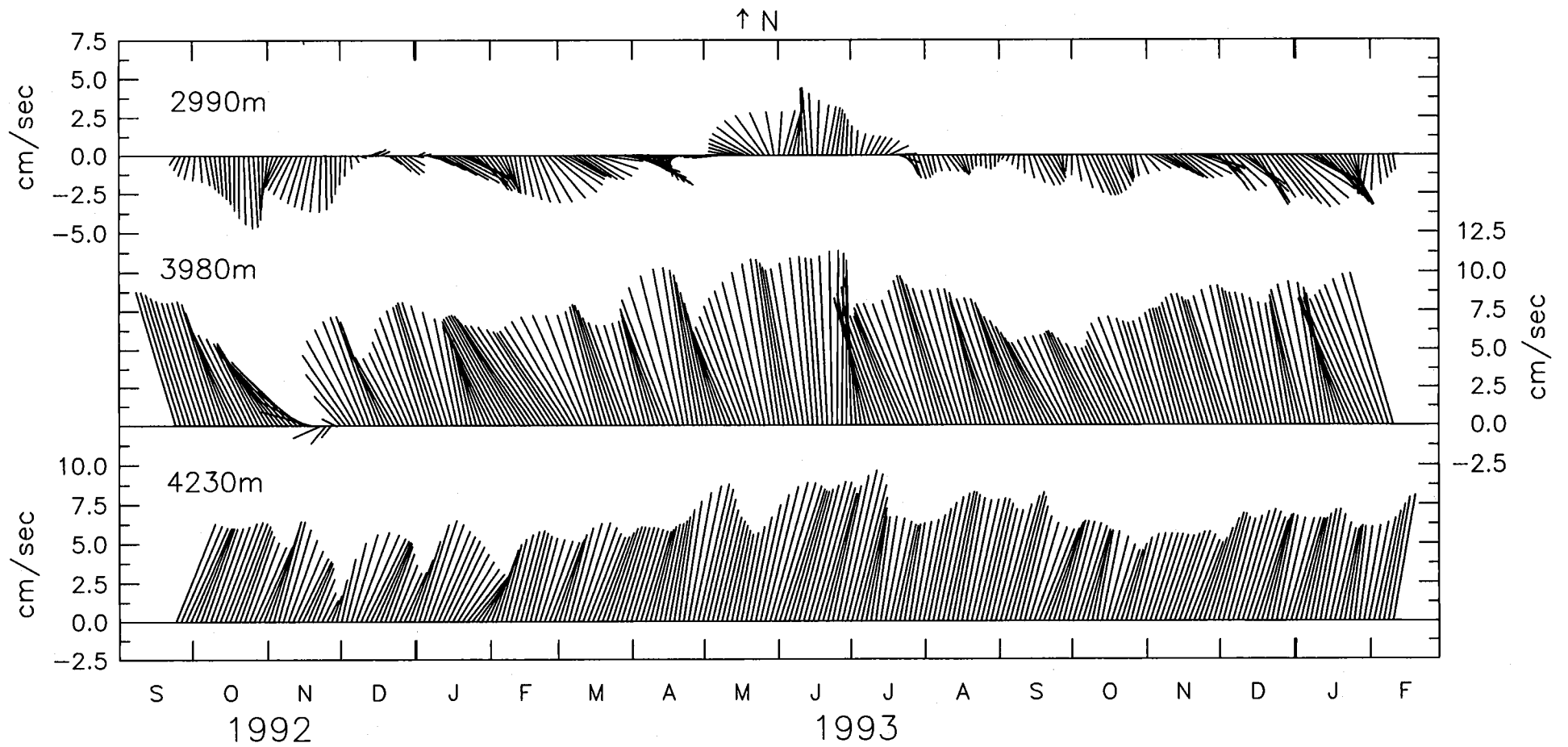
2990m at SAMOA 1. Low-Passed Data.



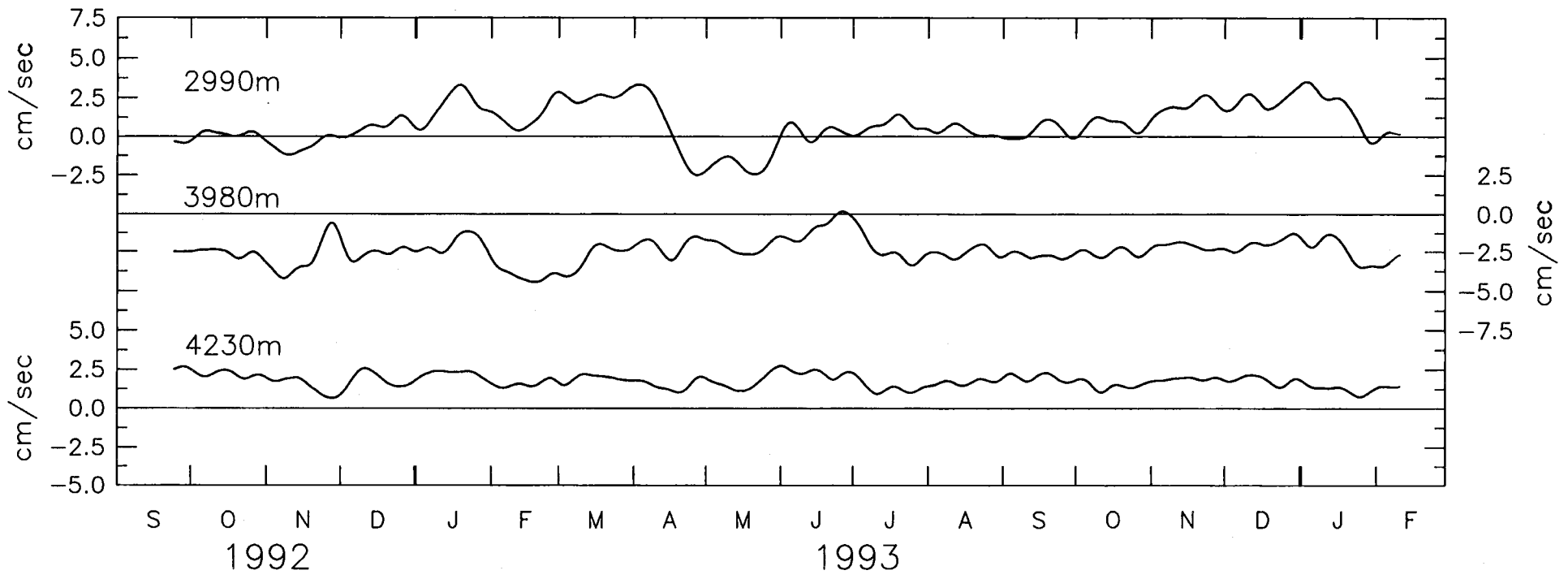
3980m at SAMOA 1. Low-Passed Data.



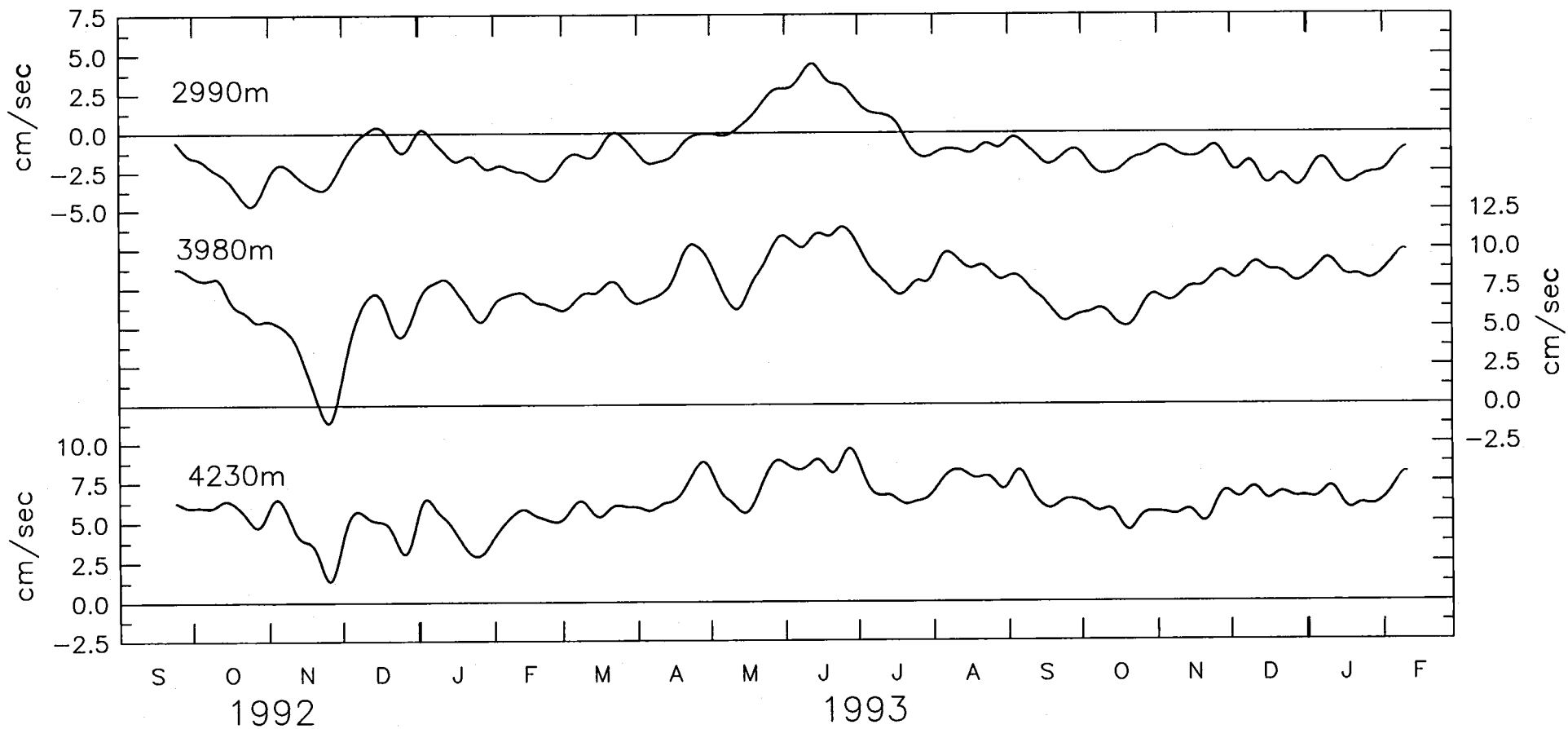
4230m at SAMOA 1. Low-Passed Data.



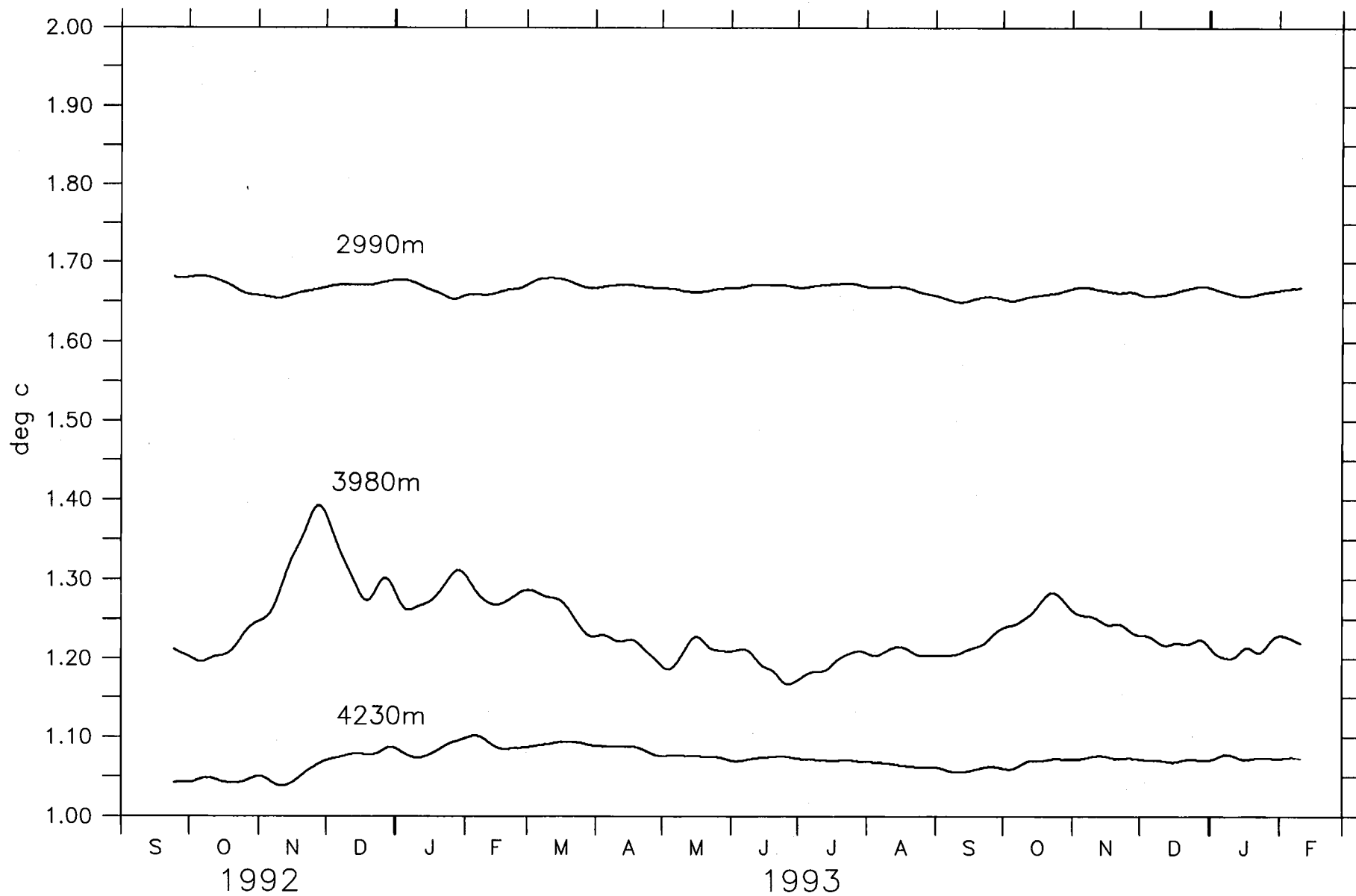
Velocity at SAMOA 1. Low-Passed Data.



U-Component at SAMOA 1. Low-Passed Data.



V-Component at SAMOA 1. Low-Passed Data.

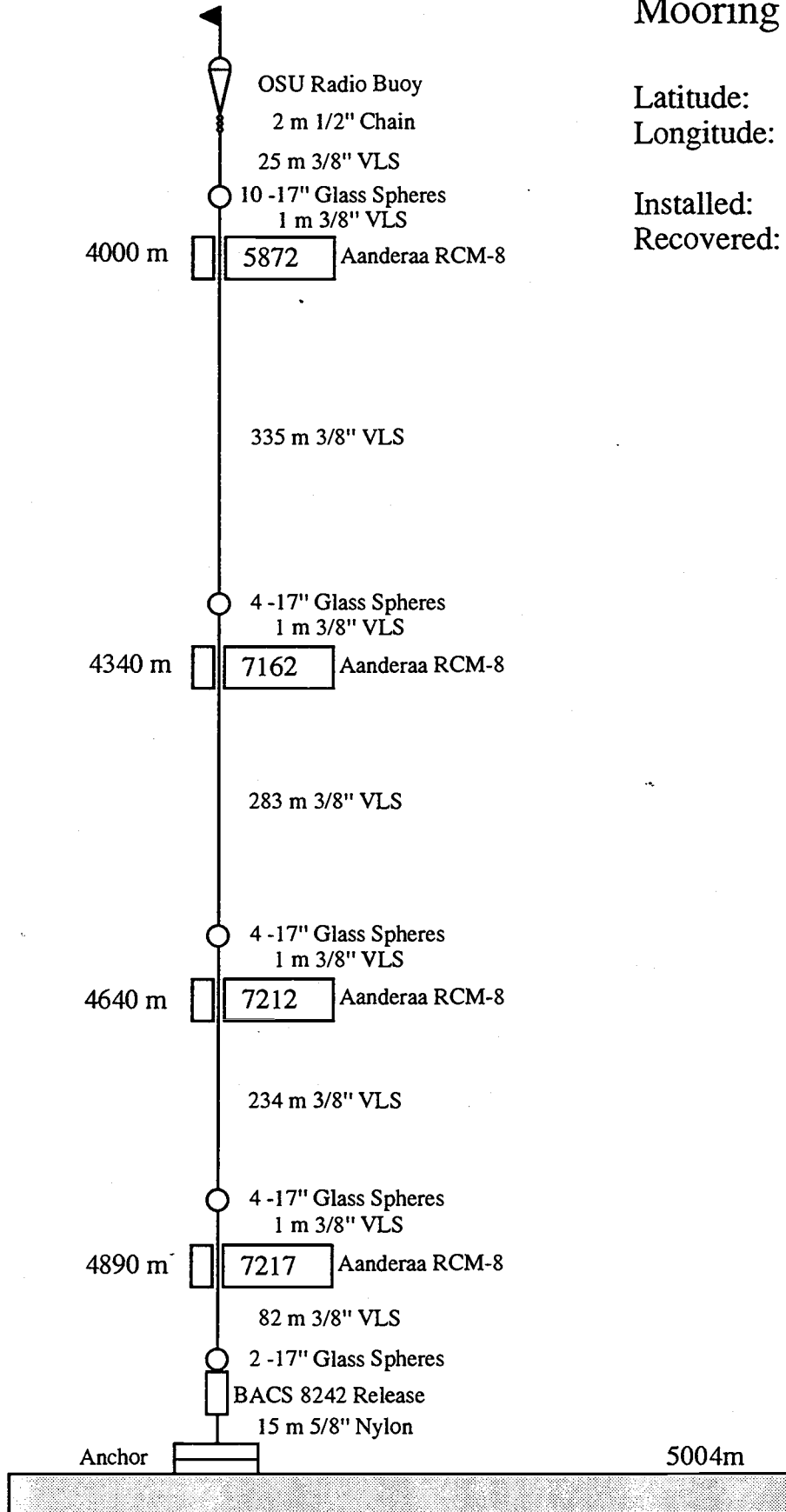


Temperature at SAMOA 1. Low-Passed Data.

Mooring SAMOA 2

Latitude: 09° 50.34'S
 Longitude: 169° 59.23'W

Installed: 0348 22 Sep. '92
 Recovered: 2251 24 Feb. '94



Mooring SAMOA 2.

Position: 09° 50.34' S
 169° 59.23 W
 Depth of Water: 5004m
 Mooring Set: 0348 U.C.T. 22 September 1992
 Mooring Retrieved: 2251 U.C.T. 24 February 1994
 Data Interval: 0600 U.C.T. 22 September 1992 - 2200 24 February 1994

Instrumentation:

Depth m	RCM8 Serial No./Sequence No.
4000m	5872/15
4340m	7162/30
4640m	7212/31
4890m	7217/27

Instrument 5872 recorded speed, direction, temperature, and pressure every 60 minutes until 1700 27 September 1992 when an electronic board failure occurred. Data from this meter are not presented in this report.

Instrument 7162 recorded speed, direction, temperature and pressure every 60 minutes. Good record, no corrections.

Instrument 7212 recorded speed, direction and temperature every 60 minutes. Good record, no corrections.

Instrument 7217 recorded speed, direction, and temperature every 60 minutes. Good record, no corrections.

SAMOA 2.
Statistics, Hourly Unfiltered Data

4340 meters at SAMOA 2. 22 Sep 92 - 24 Feb 94. Tape 7162/30.

	min	mean	max	sd	num
Speed, cm/sec	0.93	9.63	22.94	3.62	12497
U, cm/sec	-5.57	6.44	17.94	3.71	12497
V, cm/sec	-6.15	6.12	20.12	3.64	12497
Temp, deg c	1.02	1.07	1.14	0.02	12497
Pressure, db	4392.10	4407.88	4409.89	2.84	12497

4640 meters at SAMOA 2. 22 Sep 92 - 24 Feb 94. Tape 7212/31.

	min	mean	max	sd	num
Speed, cm/sec	0.93	8.56	22.66	3.47	12495
U, cm/sec	-7.35	5.66	18.91	3.57	12495
V, cm/sec	-6.64	5.04	21.55	3.89	12495
Temp, deg c	1.04	1.06	1.11	0.01	12495

4890 meters at SAMOA 2. 22 Sep 92 - 24 Feb 94. Tape 7217/27.

	min	mean	max	sd	num
Speed, cm/sec	0.93	7.30	25.82	3.11	12498
U, cm/sec	-9.06	4.66	17.43	3.71	12498
V, cm/sec	-9.34	3.53	25.73	3.88	12498
Temp, deg c	1.06	1.08	1.12	0.01	12498

SAMOA 2.
Statistics, Low-Passed Data

4340 meters at SAMOA 2. 29 Sep 92 - 17 Feb 94. Tape 7162/30.

	min	mean	max	sd	num
Speed, cm/sec	2.07	8.87	13.00	2.27	2023
U, cm/sec	0.55	6.39	10.28	1.98	2023
V, cm/sec	1.78	6.11	8.38	1.35	2023
Temp, deg c	1.05	1.07	1.10	0.01	2023
Pressure, db	4403.93	4407.92	4409.89	2.62	2023

4640 meters at SAMOA 2. 29 Sep 92 - 17 Feb 94. Tape 7212/31.

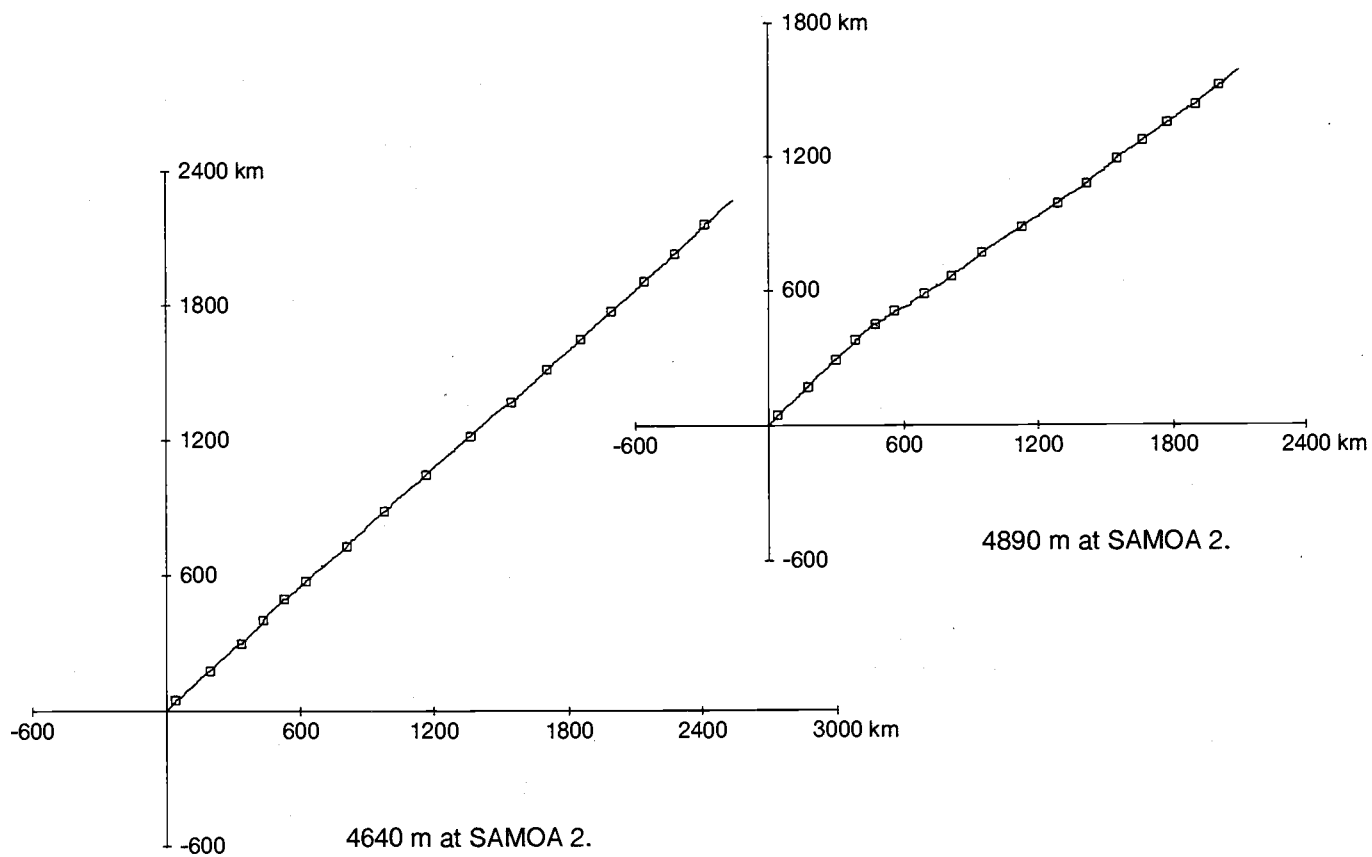
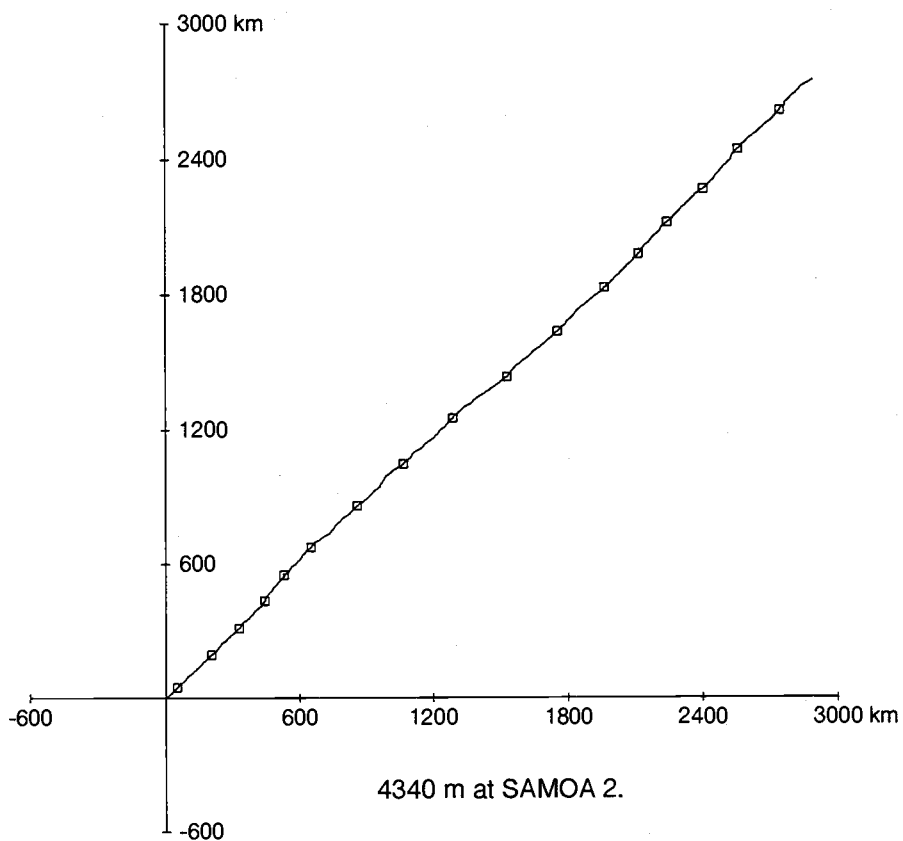
	min	mean	max	sd	num
Speed, cm/sec	1.73	7.56	11.39	1.77	2023
U, cm/sec	0.88	5.63	8.78	1.41	2023
V, cm/sec	0.17	5.01	7.50	1.19	2023
Temp, deg c	1.05	1.06	1.09	0.01	2023

4890 meters at SAMOA 2. 29 Sep 92 - 17 Feb 94. Tape 7217/27.

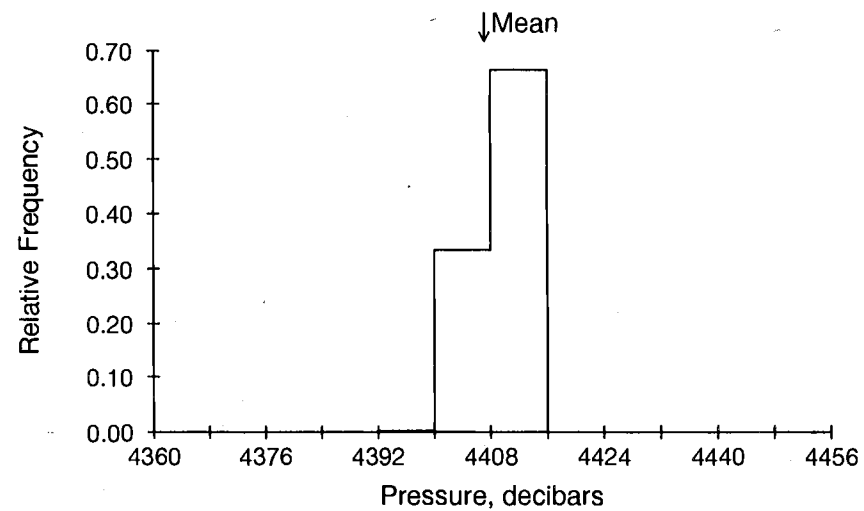
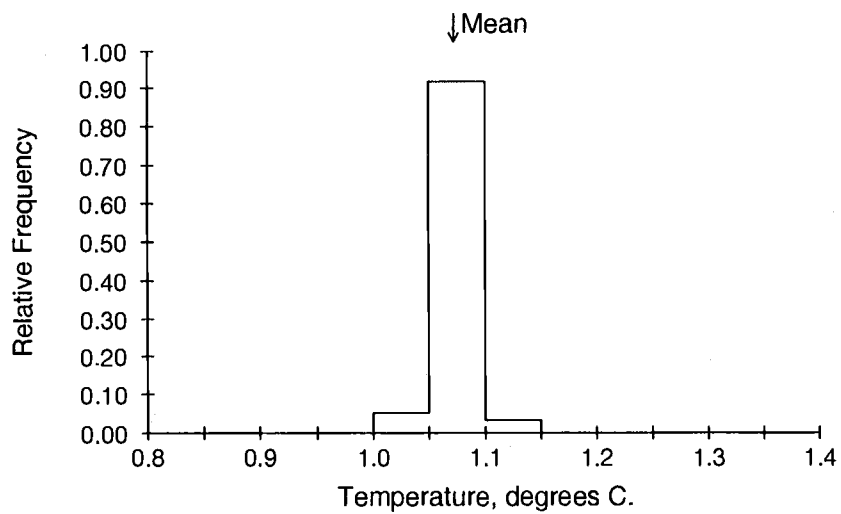
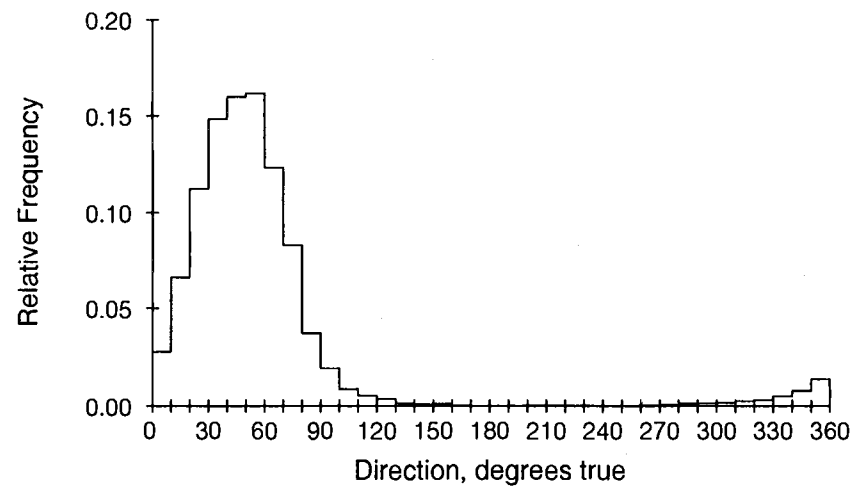
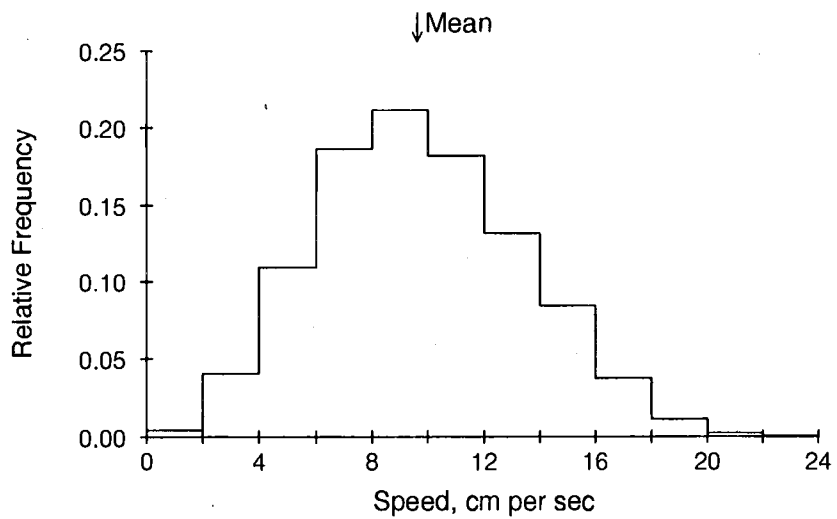
	min	mean	max	sd	num
Speed, cm/sec	0.38	5.85	9.46	1.56	2023
U, cm/sec	0.06	4.64	7.93	1.36	2023
V, cm/sec	-1.22	3.48	5.79	1.07	2023
Temp, deg c	1.07	1.08	1.10	0.01	2023

Mooring SAMOA 2. 22 Sep 92 - 24 Feb 94.

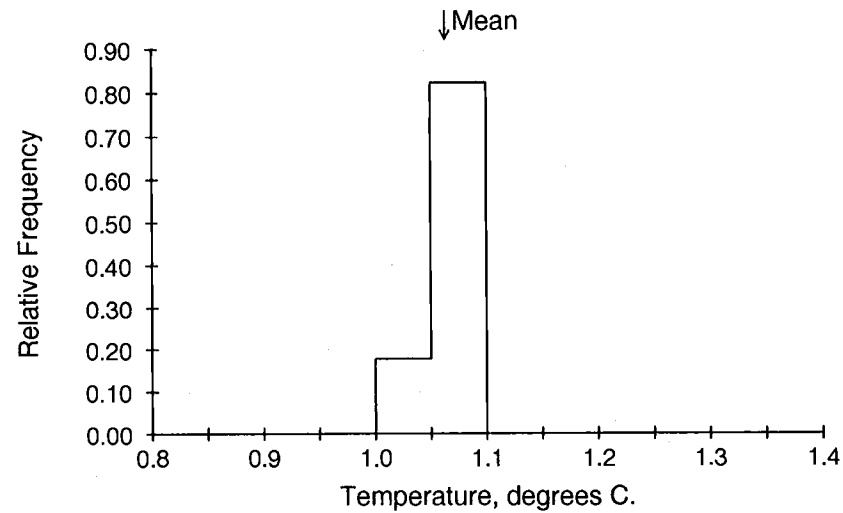
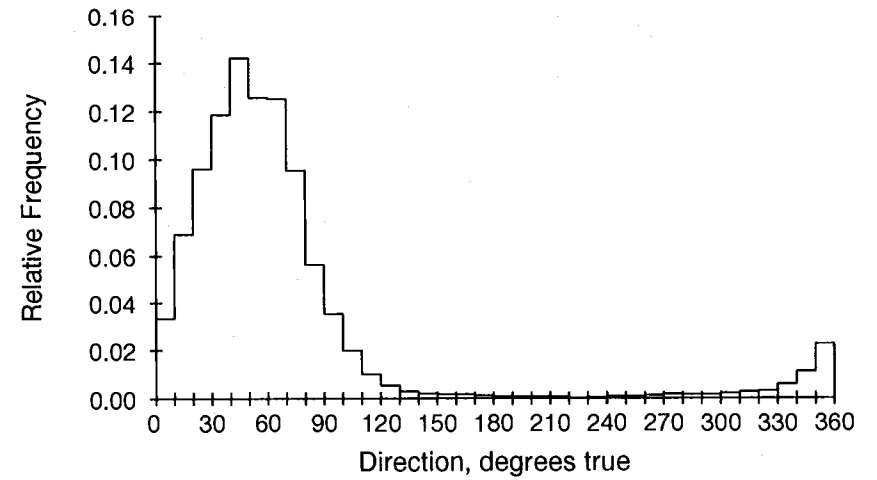
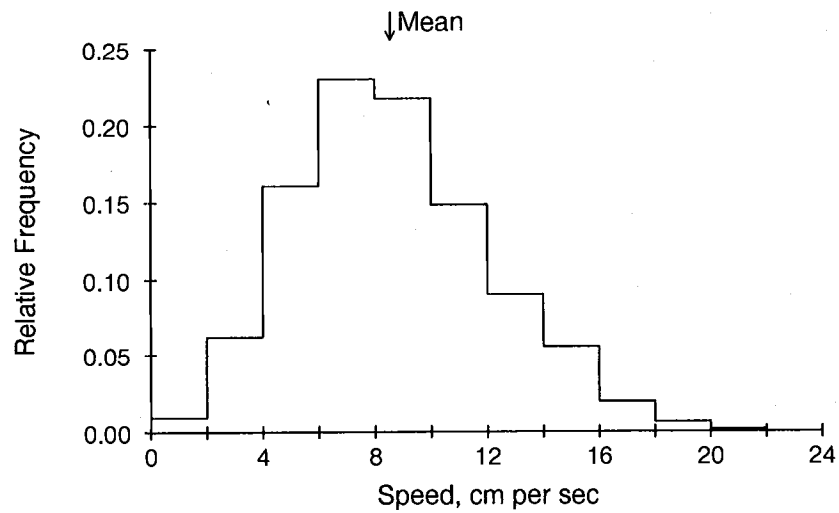
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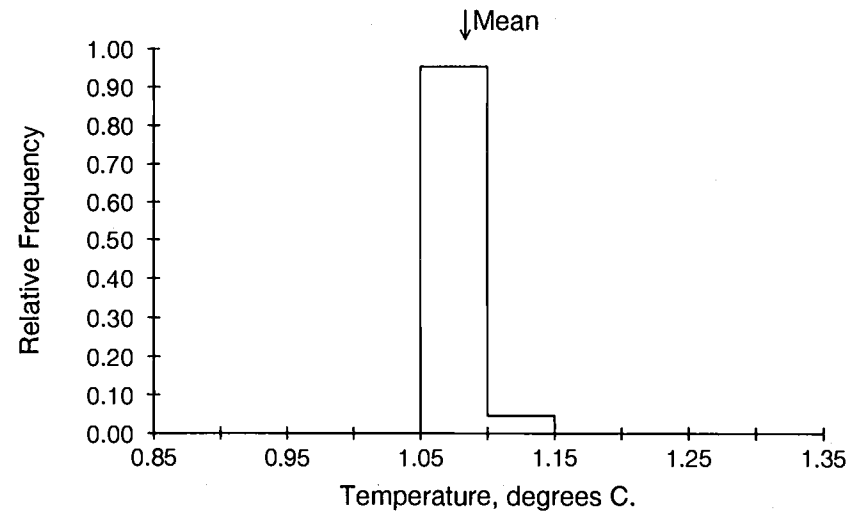
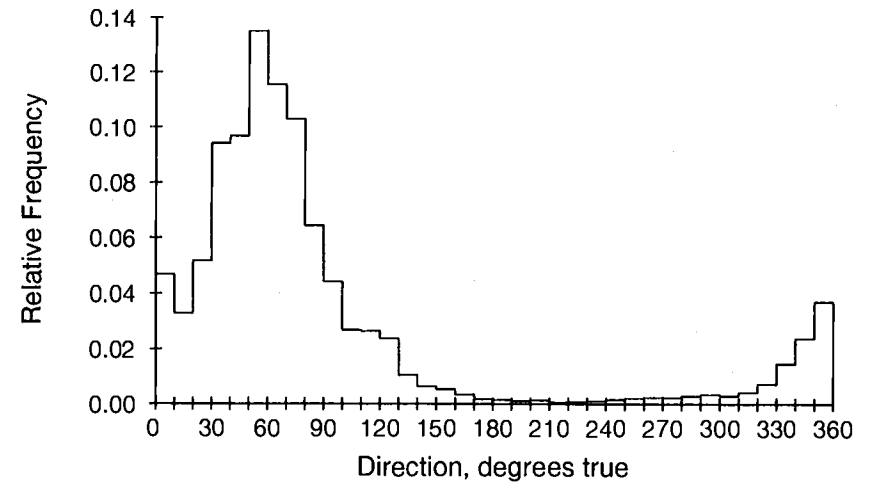
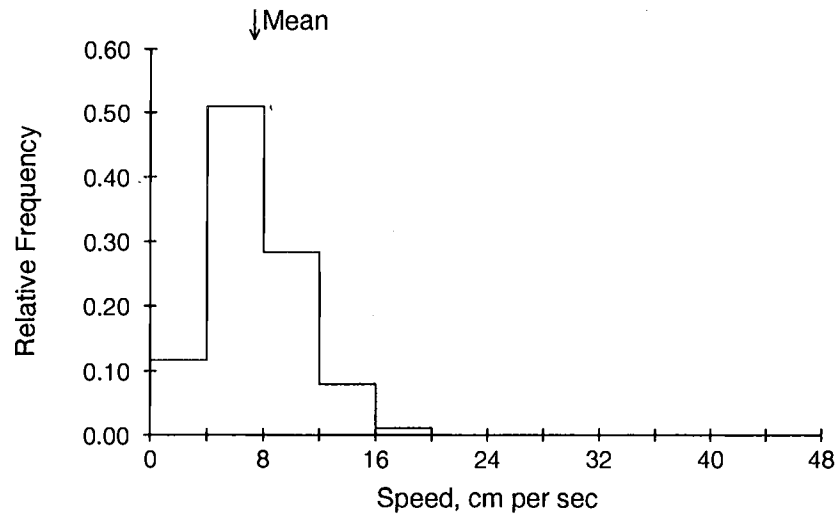
4340m at SAMOA 2. 22 Sep 92 - 24 Feb 94. RCM 7162/30.



4640m at SAMOA 2. 22 Sep 92 - 24 Feb 94. RCM 7212/31.

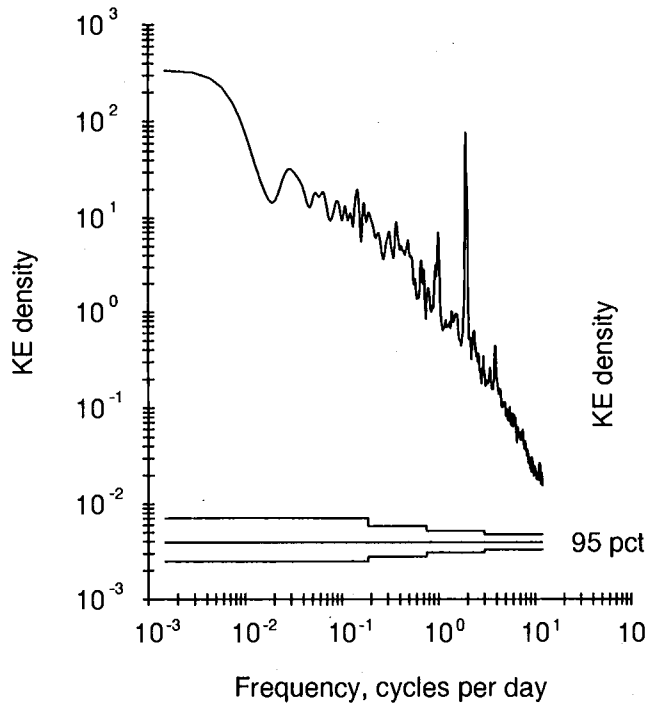


4890m at SAMOA 2. 22 Sep 92 - 24 Feb 94. RCM 7217/27.

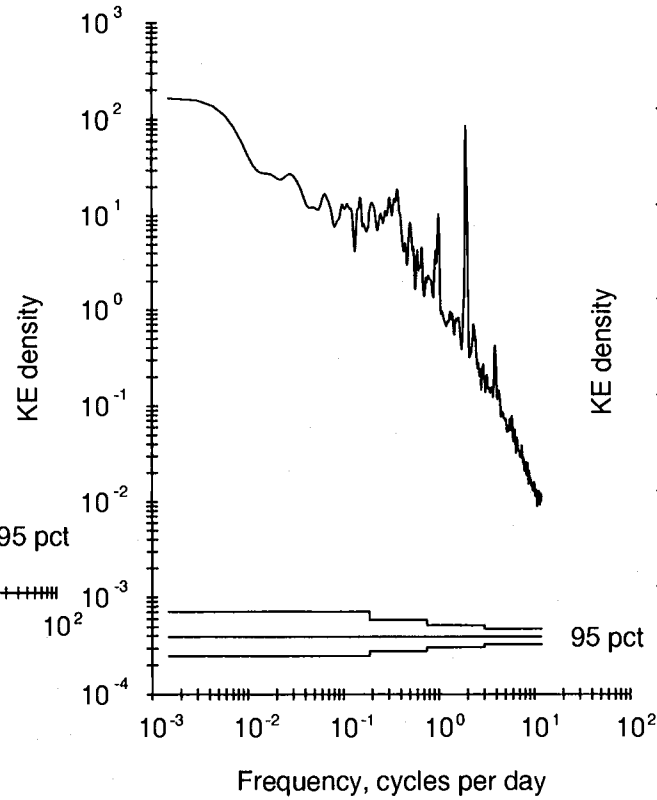


Mooring SAMOA 2. Unfiltered current.

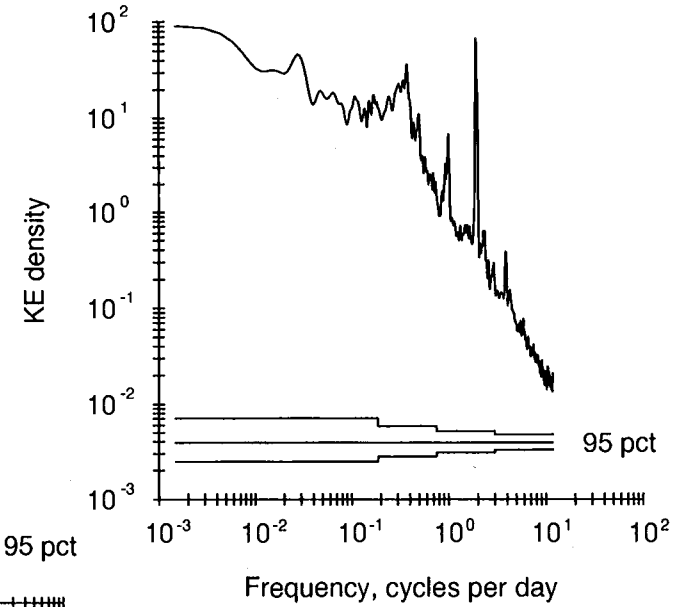
4340m

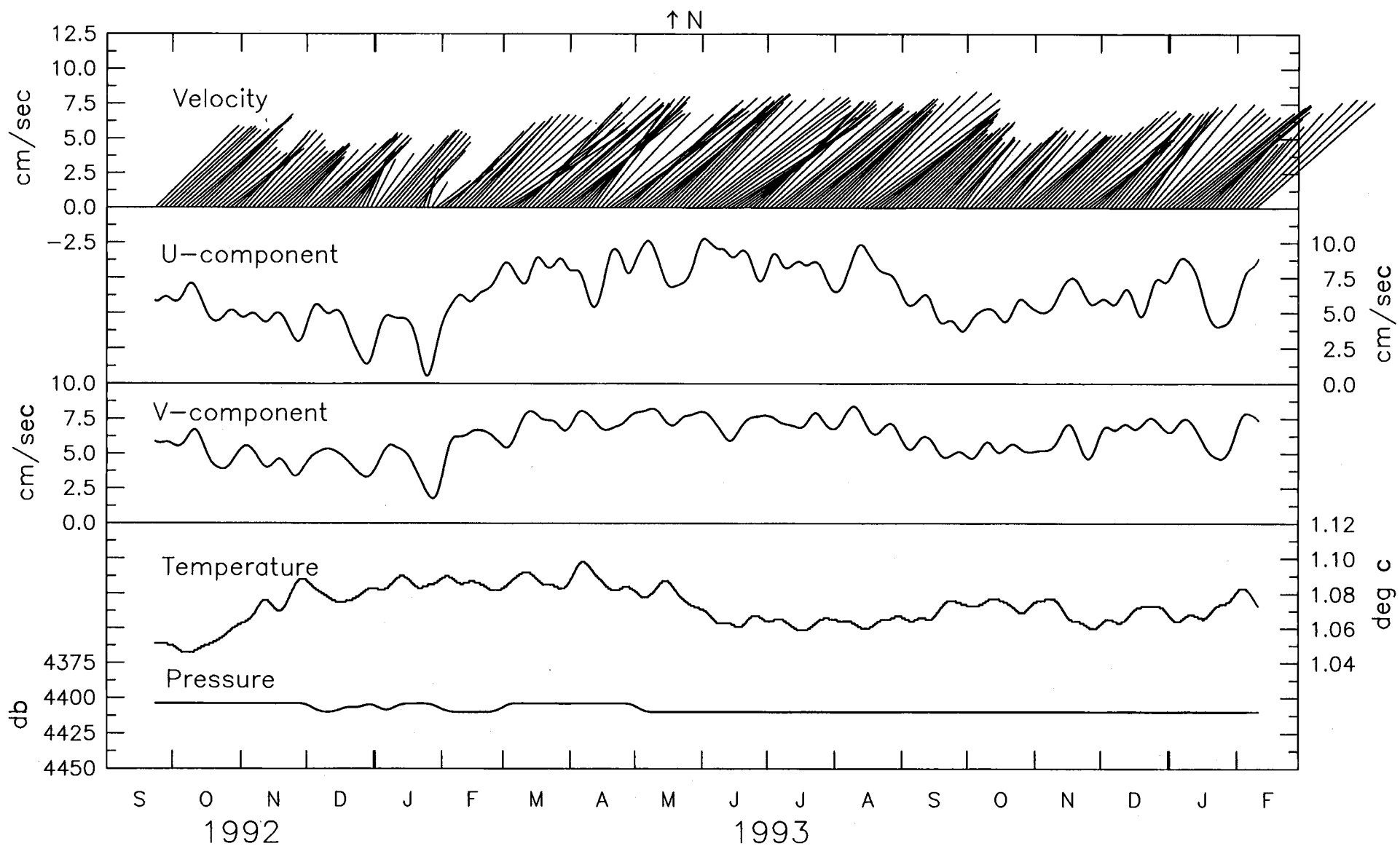


4640m

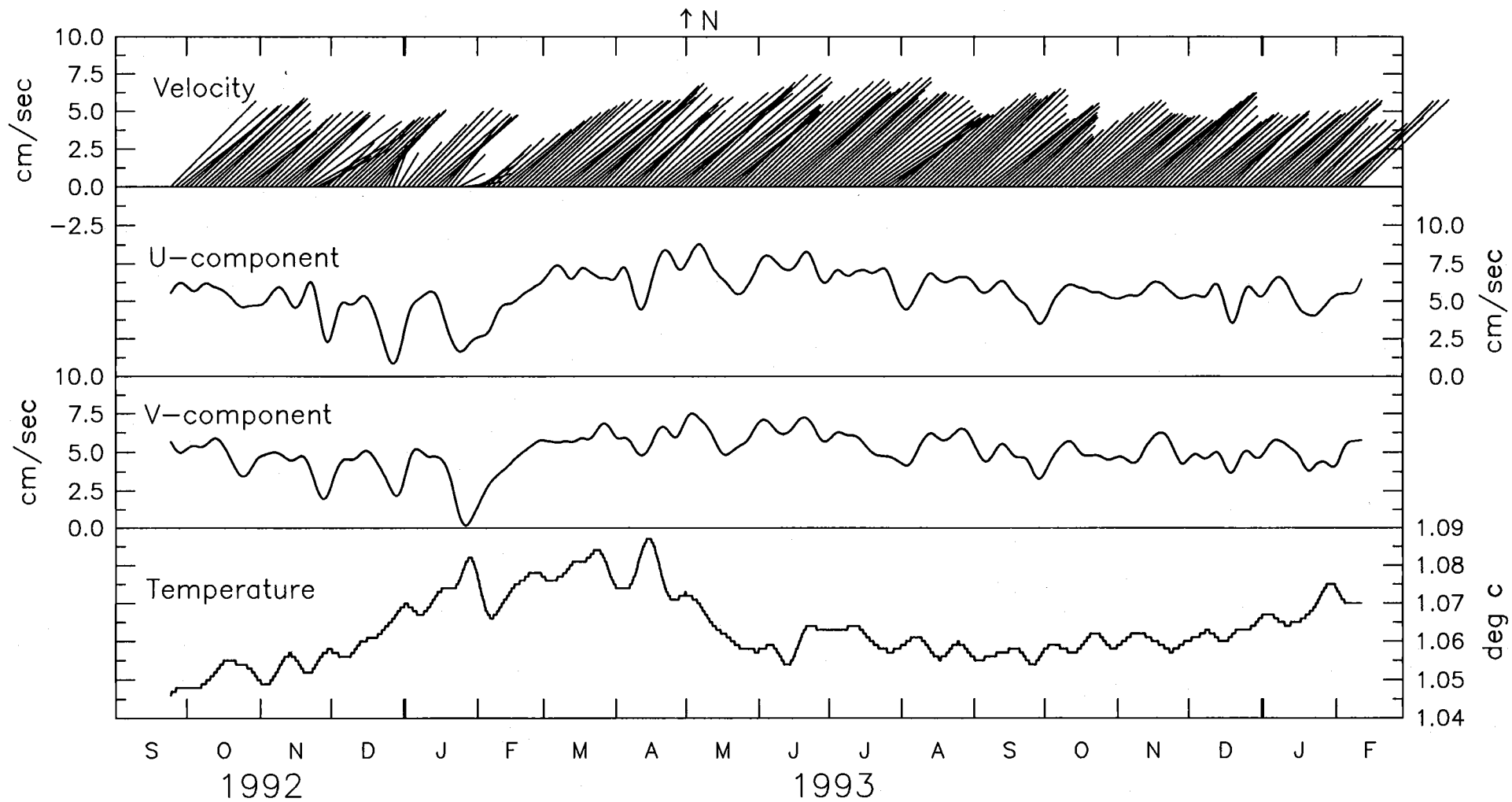


4890m

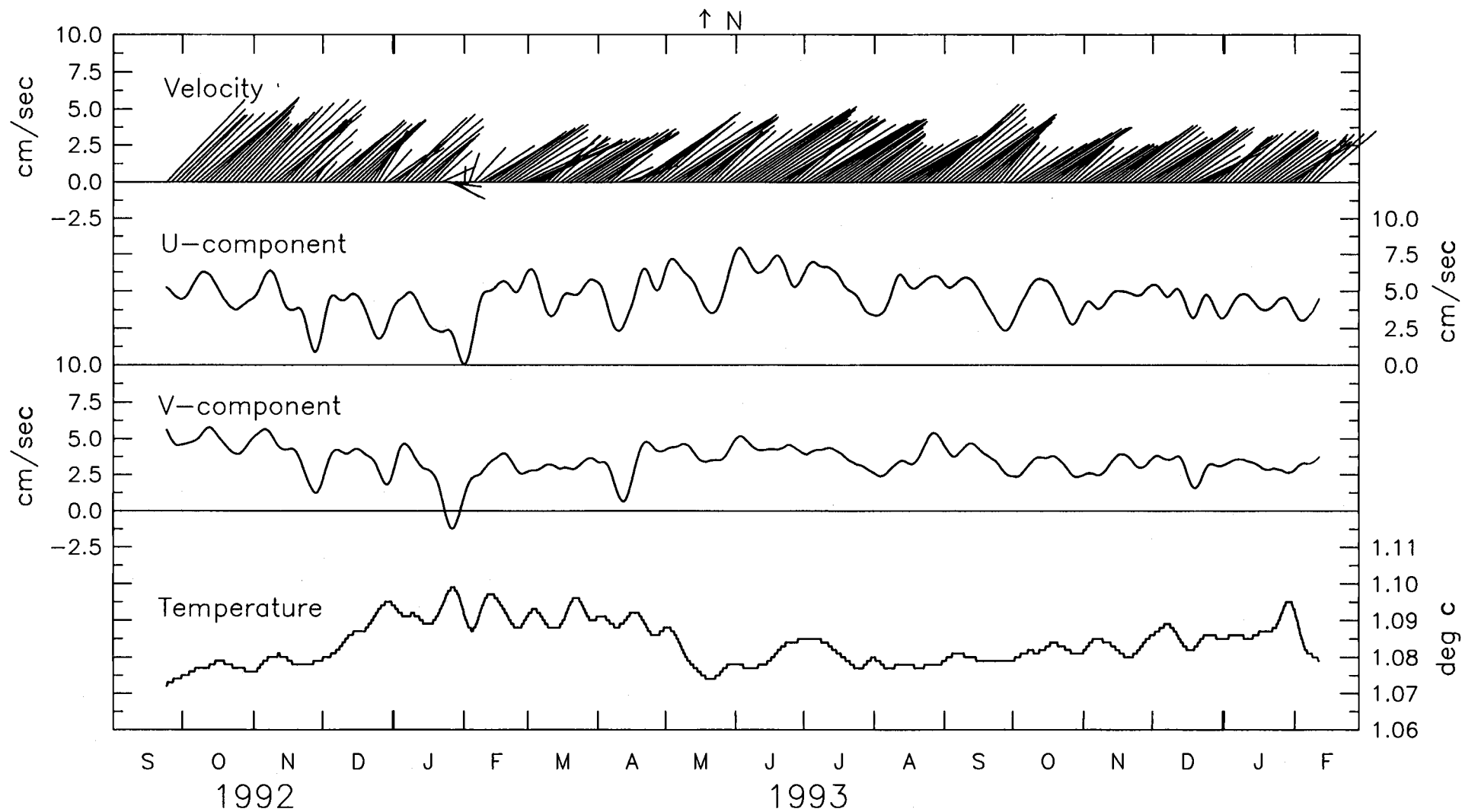




4340m at SAMOA 2. Low-Passed Data.

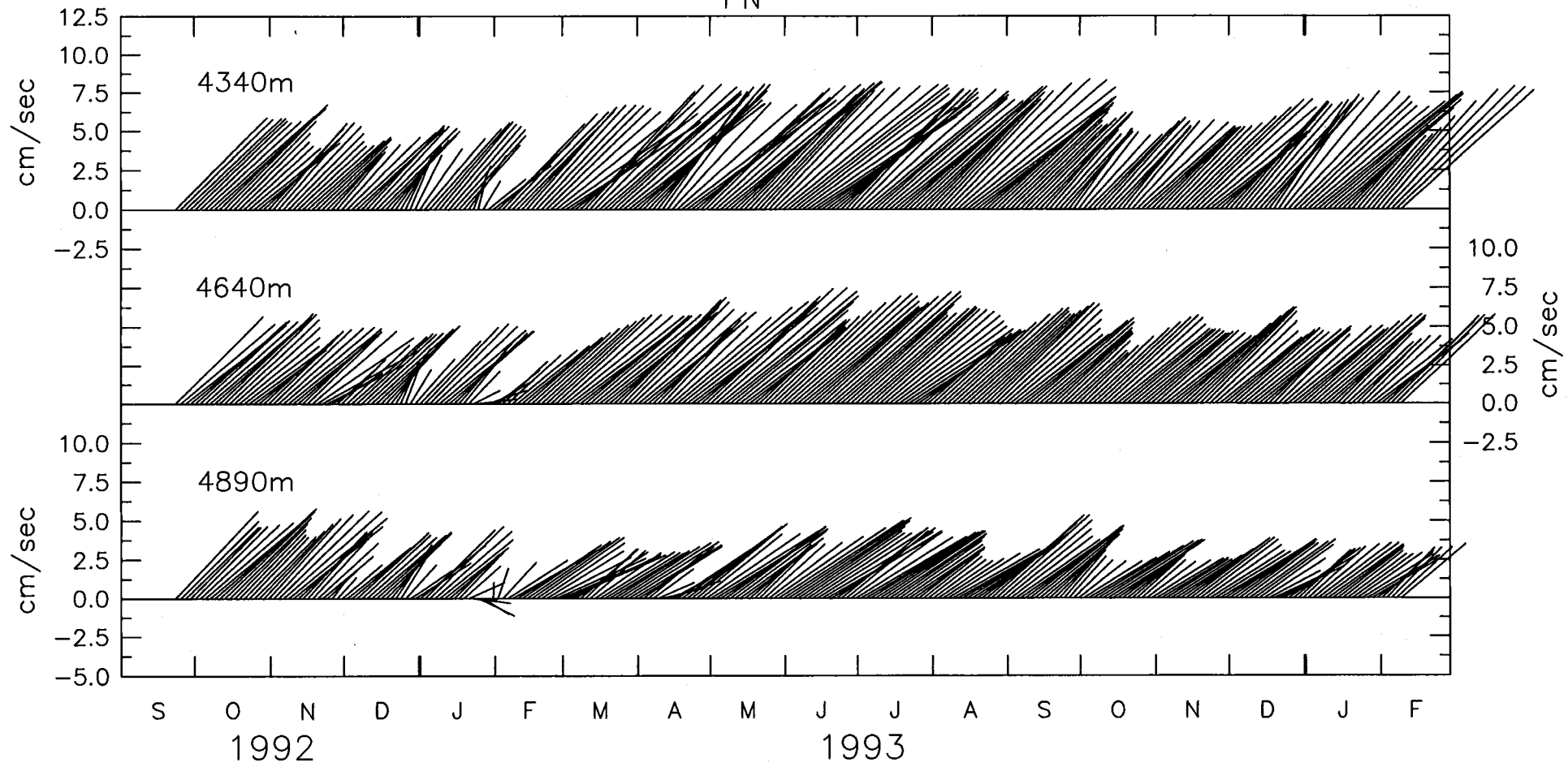


4640m at SAMOA 2. Low-Passed Data.

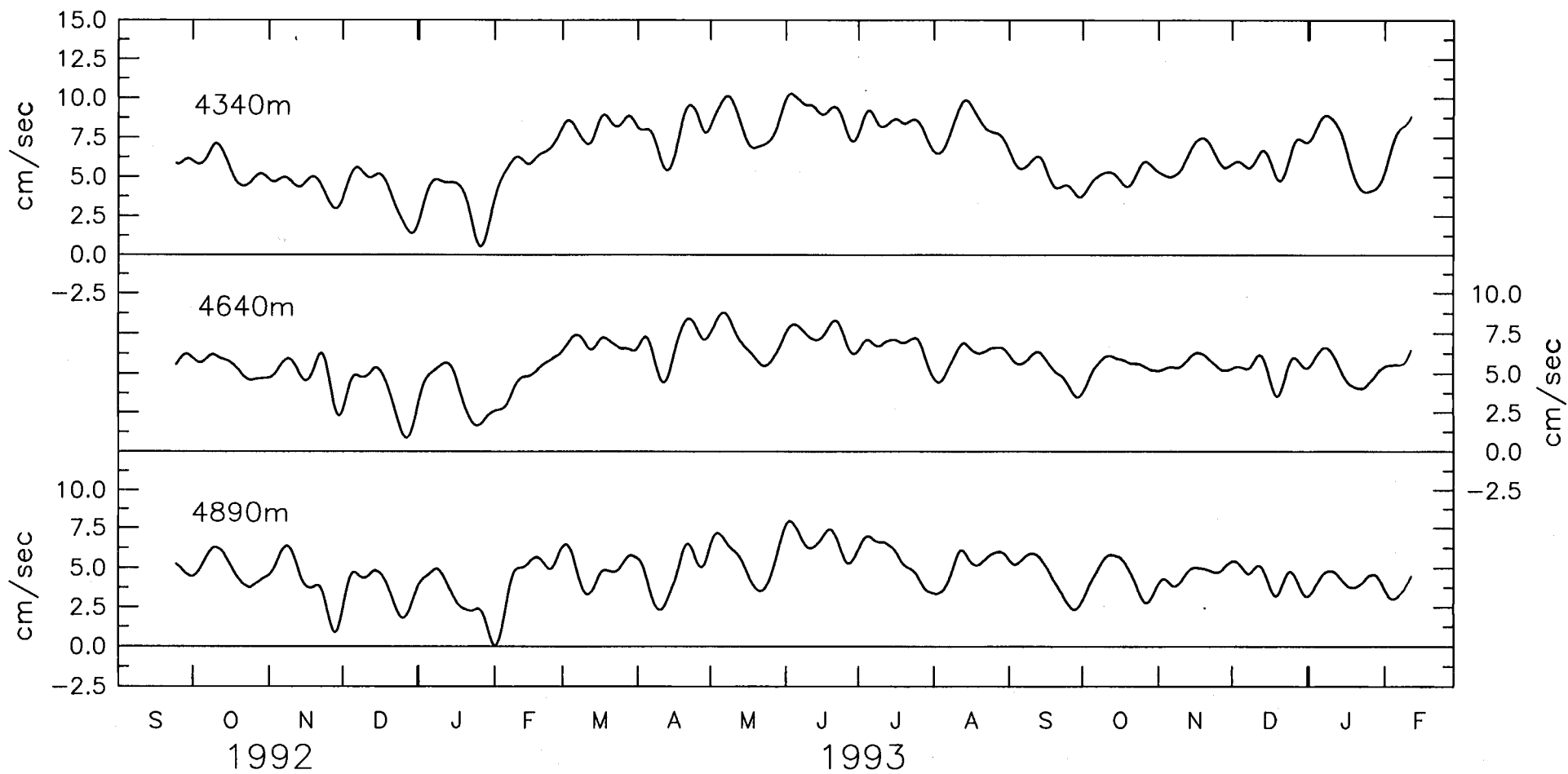


4890m at SAMOA 2. Low-Passed Data.

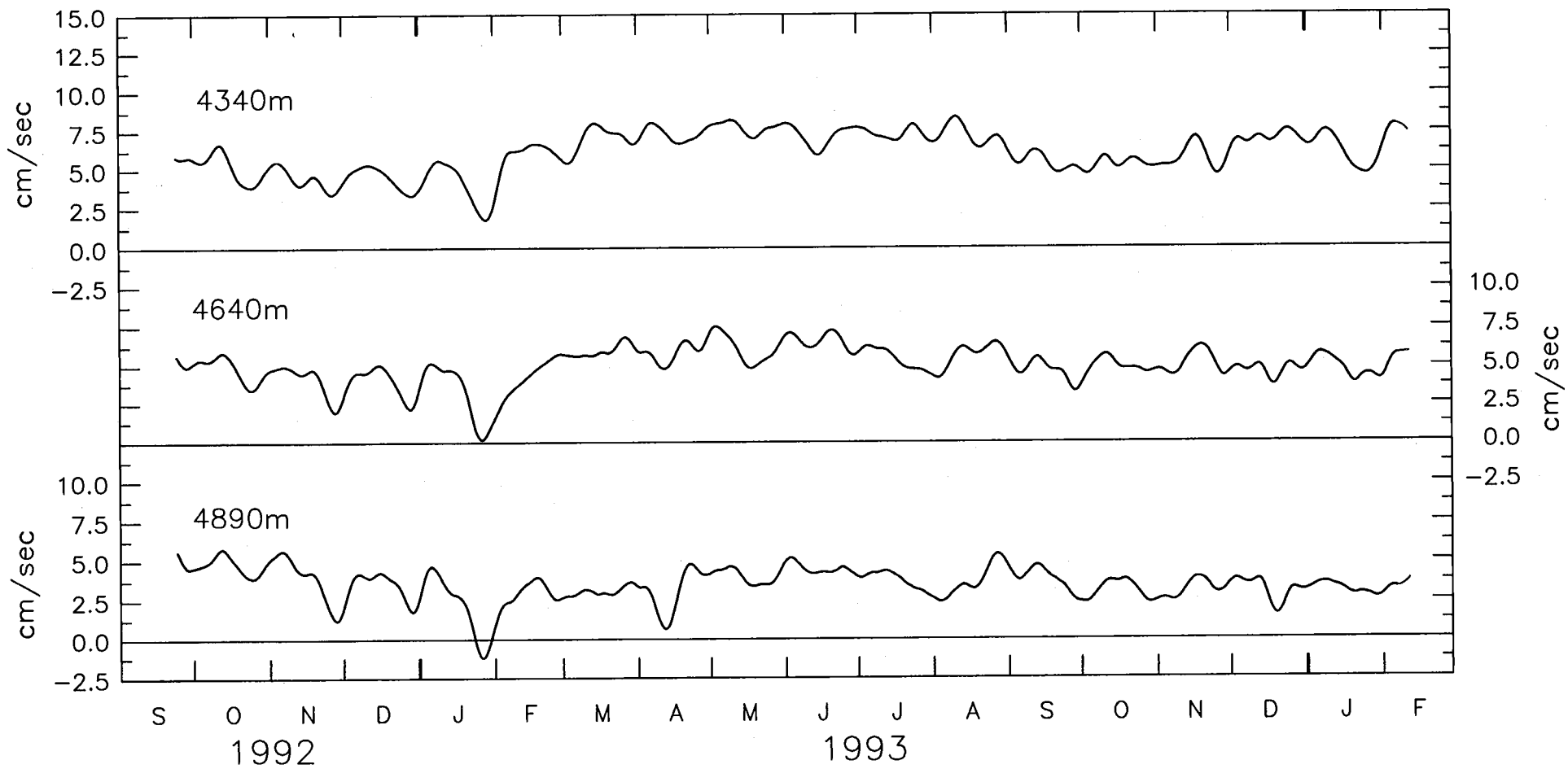
↑ N



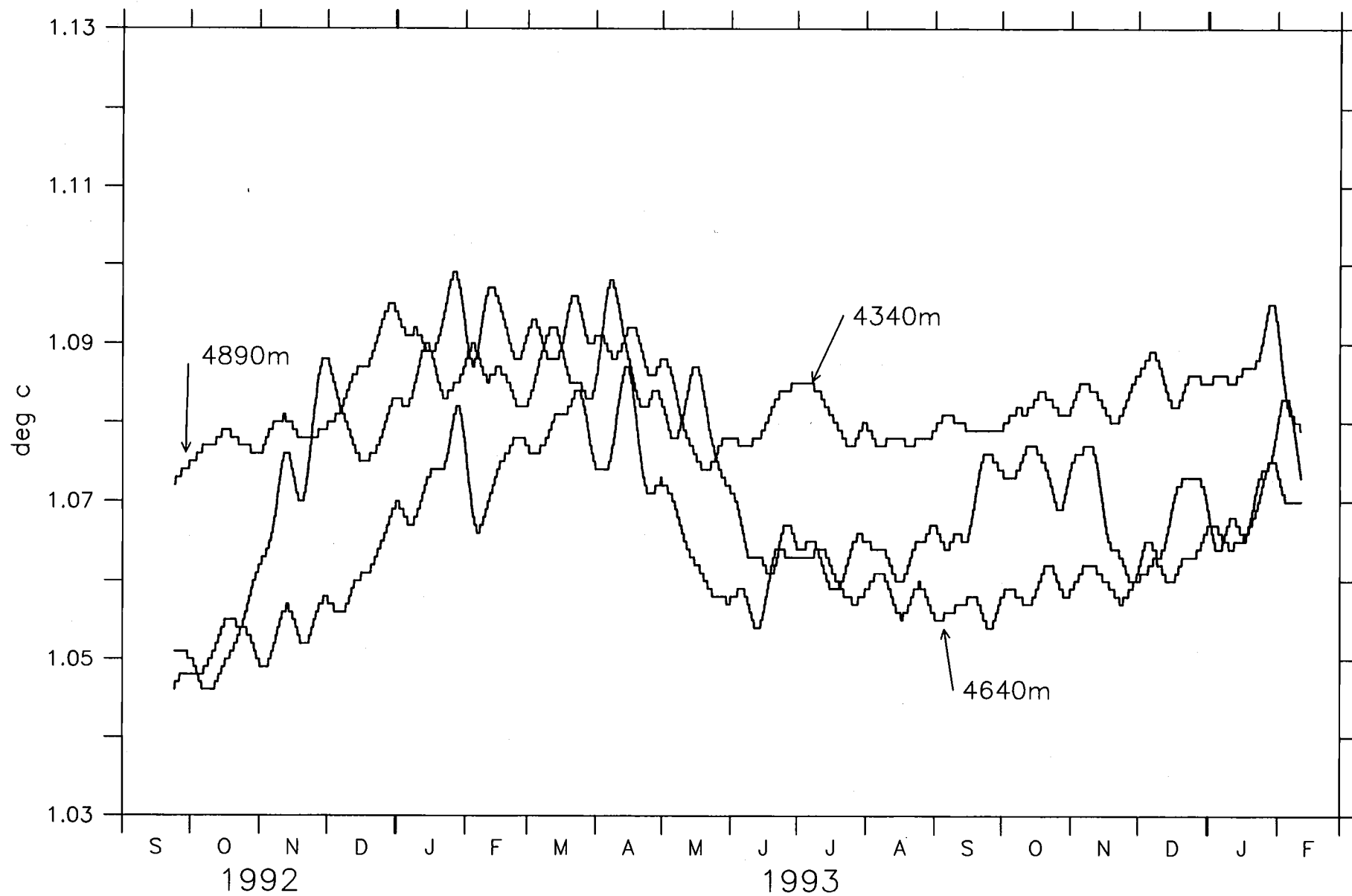
Velocity at SAMOA 2. Low-Passed Data.



U-Component at SAMOA 2. Low-Passed Data.



V-Component at SAMOA 2. Low-Passed Data.

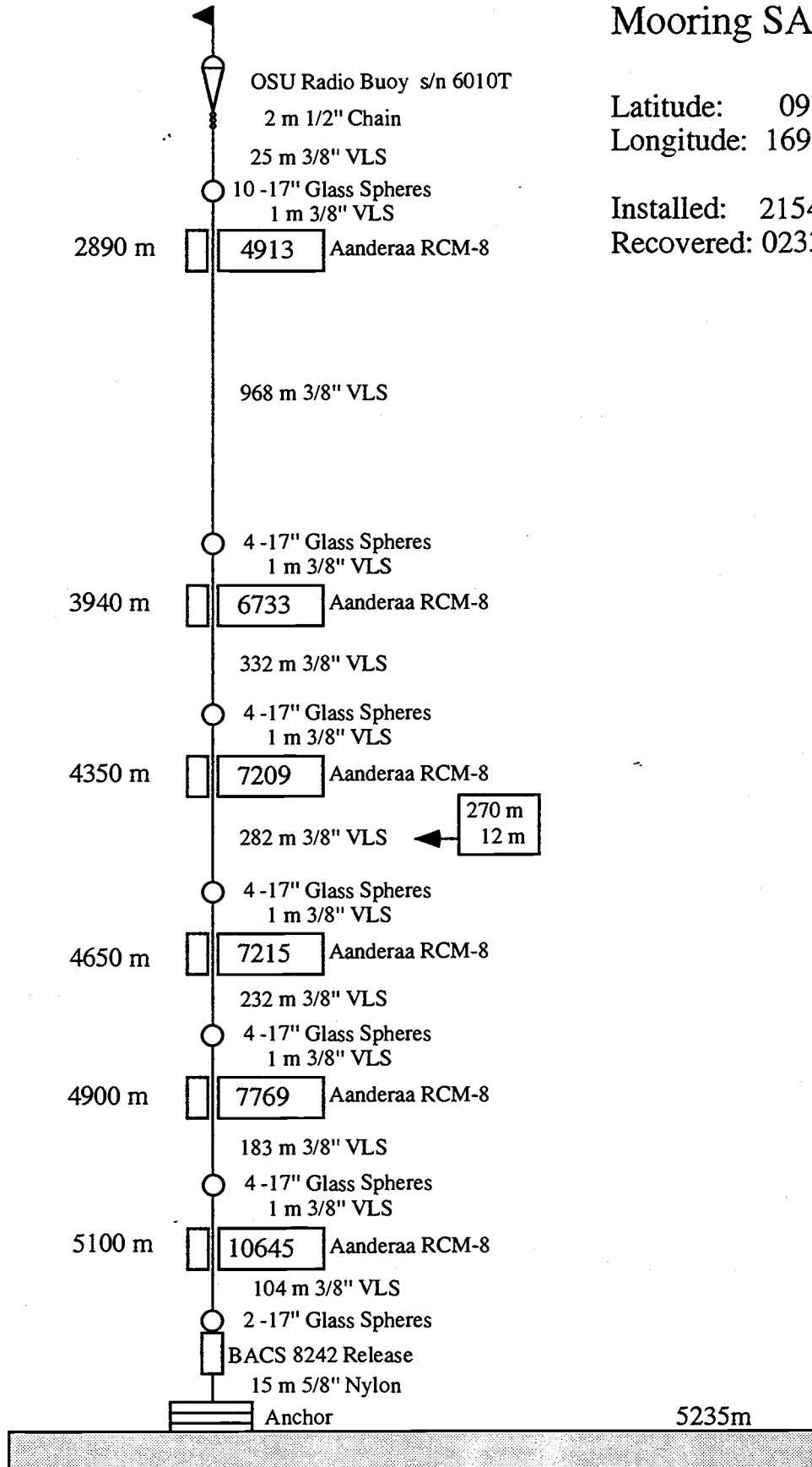


Temperature at SAMOA 2. Low-Passed Data.

Mooring SAMOA 3

Latitude: 09° 55.08' S
 Longitude: 169° 44.35' W

Installed: 2154 21 Sep. '92
 Recovered: 0233 25 Feb. '94



Mooring SAMOA 3.

Position: 09° 55.08' S
 169° 44.35' W
 Depth of Water: 5235m
 Mooring Set: 2154 U.C.T. 21 September 1992
 Mooring Retrieved: 0233 U.C.T. 25 February 1994
 Data Interval: 0100 U.C.T. 22 September 1992 - 0200 25 February 1994

Instrumentation:

<u>Depth m</u>	<u>RCM8 Serial No./Sequence No.</u>
2890m	4913/25
3940m	6733/32
4350m	7209/29
4650m	7215/28
4900m	7769/24
5100m	10645/6

Instrument 4913 recorded speed, direction, temperature, and pressure every 60 minutes until recovery. No corrections were made to the record. There is a suspicious section in the speed record, 21-22 January 93, when the speed sensor may be stuck at about 6 cm/sec. This was not interpolated.

Instrument 6733 recorded speed, direction, temperature and pressure every 60 minutes. Good record, no corrections.

Instrument 7209 recorded speed, direction and temperature every 60 minutes. Good record, no corrections.

Instrument 7215 recorded speed, direction, and temperature every 60 minutes. Good record, no corrections.

Instrument 7769 recorded speed, direction, and temperature every 60 minutes. After Feb 1993 the speed and direction records become choppy and seem to have frequent small spikes. The velocity record is unreliable after this time. The compass failed its post-cruise calibration.

Instrument 10645 recorded speed, direction, and temperature every 60 minutes. Good record, no corrections.

SAMOA 3.
Statistics, Hourly Unfiltered Data

2890 meters at SAMOA 3. 22 Sep 92 - 25 Feb 94. Tape 4913/25.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.52	11.44	1.96	12506
U, cm/sec	-10.83	0.34	10.57	3.30	12506
V, cm/sec	-11.36	-0.91	11.36	3.53	12506
Temp, deg c	1.62	1.67	1.73	0.02	12506
Pressure, db	2916.58	2929.59	2934.69	2.20	12506

3940 meters at SAMOA 3. 22 Sep 92 - 25 Feb 94. Tape 6733/32.

Speed, cm/sec	0.93	4.48	14.02	1.89	12507
U, cm/sec	-10.00	1.69	11.93	3.10	12507
V, cm/sec	-11.61	1.02	11.63	3.18	12507
Temp, deg c	1.26	1.37	1.44	0.02	12507
Pressure, db	3988.21	4003.85	4006.41	3.07	12507

4350 meters at SAMOA 3. 22 Sep 92 - 25 Feb 94. Tape 7209/29.

Speed, cm/sec	0.93	9.41	25.54	3.68	12507
U, cm/sec	-4.01	7.66	22.62	3.38	12507
V, cm/sec	-8.44	4.68	16.04	3.18	12507
Temp, deg c	1.05	1.13	1.22	0.02	12507

4650 meters at SAMOA 3. 22 Sep 92 - 25 Feb 94. Tape 7215/28.

Speed, cm/sec	2.29	12.67	24.67	3.32	12507
U, cm/sec	0.85	11.95	24.67	3.38	12507
V, cm/sec	-5.67	2.75	14.97	3.11	12507
Temp, deg c	1.04	1.06	1.08	0.01	12507

4900 meters at SAMOA 3. 22 Sep 92 - 25 Feb 94. Tape 7769/24.

Speed, cm/sec	2.29	10.23	21.22	3.04	12507
U, cm/sec	-2.32	9.80	21.20	2.97	12507
V, cm/sec	-8.66	0.21	14.74	2.97	12507
Temp, deg c	1.06	1.07	1.09	0.00	12507

5100 meters at SAMOA 3. 22 Sep 92 - 25 Feb 94. Tape 10645/6.

Speed, cm/sec	0.93	12.90	24.10	3.43	12507
U, cm/sec	0.84	11.84	23.27	3.30	12507
V, cm/sec	-4.94	4.57	14.00	2.48	12507
Temp, deg c	1.09	1.09	1.10	0.00	12507

SAMOA 3.
Statistics, Low-Passed Data

2890 meters at SAMOA 3. 29 Sep 92 - 17 Feb 94. Tape 4913/25.

	min	mean	max	sd	num
Speed, cm/sec	0.07	2.42	5.97	1.31	2024
U, cm/sec	-3.76	0.38	4.82	1.69	2024
V, cm/sec	-4.22	-0.97	5.73	1.91	2024
Temp, deg c	1.65	1.67	1.71	0.01	2024
Pressure, db	2928.65	2929.62	2934.58	1.41	2024

3940 meters at SAMOA 3. 29 Sep 92 - 17 Feb 94. Tape 6733/32.

Speed, cm/sec	0.16	2.37	5.26	1.12	2025
U, cm/sec	-2.35	1.66	4.17	1.31	2025
V, cm/sec	-2.60	1.02	3.85	1.17	2025
Temp, deg c	1.33	1.37	1.39	0.02	2025
Pressure, db	4000.16	4003.90	4006.41	2.28	2025

4350 meters at SAMOA 3. 29 Sep 92 - 17 Feb 94. Tape 7209/29.

Speed, cm/sec	5.49	8.95	15.26	2.33	2025
U, cm/sec	4.49	7.63	13.57	1.95	2025
V, cm/sec	1.63	4.63	8.57	1.44	2025
Temp, deg c	1.09	1.13	1.16	0.01	2025

4650 meters at SAMOA 3. 29 Sep 92 - 17 Feb 94. Tape 7215/28.

Speed, cm/sec	7.85	12.24	16.42	1.70	2025
U, cm/sec	7.18	11.88	16.33	1.77	2025
V, cm/sec	1.04	2.76	5.11	0.87	2025
Temp, deg c	1.05	1.06	1.07	0.00	2025

4900 meters at SAMOA 3. 29 Sep 92 - 17 Feb 94. Tape 7769/24.

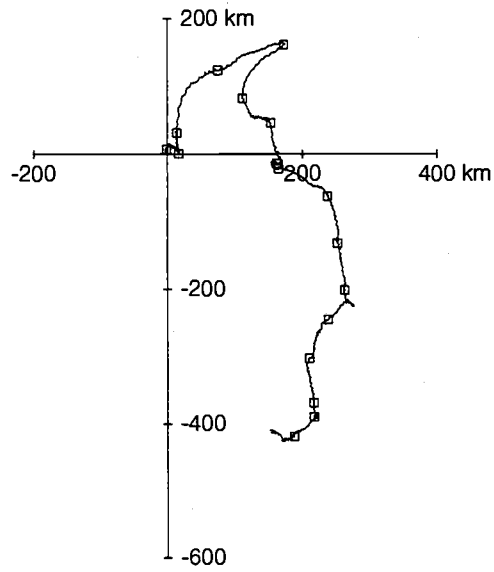
Speed, cm/sec	7.41	9.95	13.75	1.52	2025
U, cm/sec	7.34	9.72	12.88	1.32	2025
V, cm/sec	-2.75	0.16	5.14	2.22	2025
Temp, deg c	1.07	1.07	1.08	0.00	2025

5100 meters at SAMOA 3. 29 Sep 92 - 17 Feb 94. Tape 10645/6.

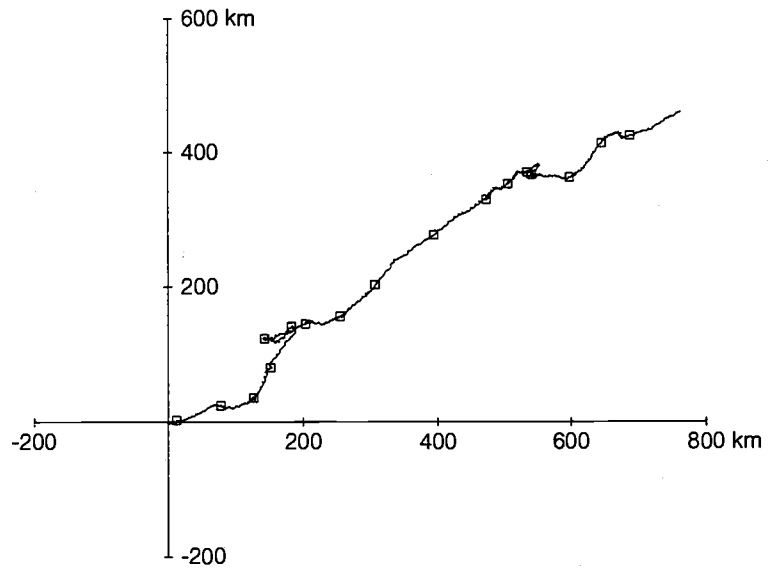
Speed, cm/sec	7.94	12.61	18.03	1.98	2025
U, cm/sec	7.47	11.76	16.78	1.84	2025
V, cm/sec	2.67	4.54	6.62	0.79	2025
Temp, deg c	1.09	1.09	1.10	0.00	2025

Mooring SAMOA 3. 22 Sep 92 - 25 Feb 94.

N ↑



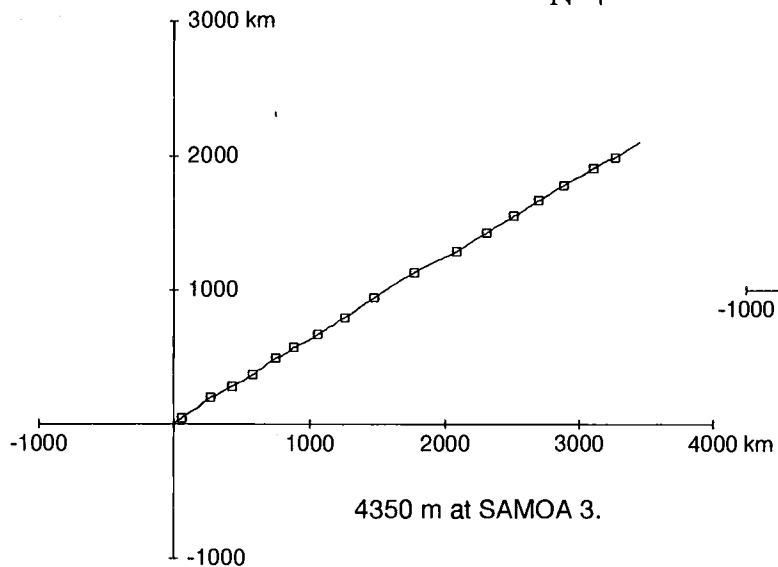
2890 m at SAMOA 3.



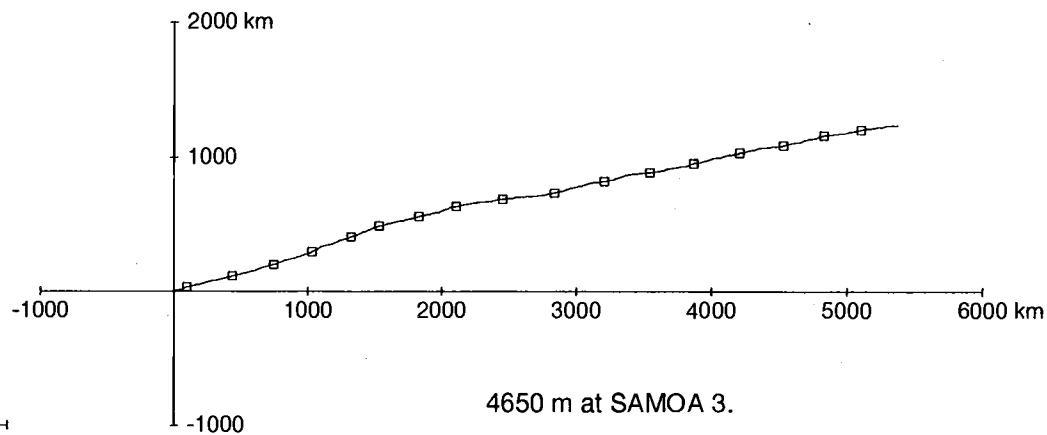
3940 m at SAMOA 3.

Mooring SAMOA 3. 22 Sep 92 - 25 Feb 94.

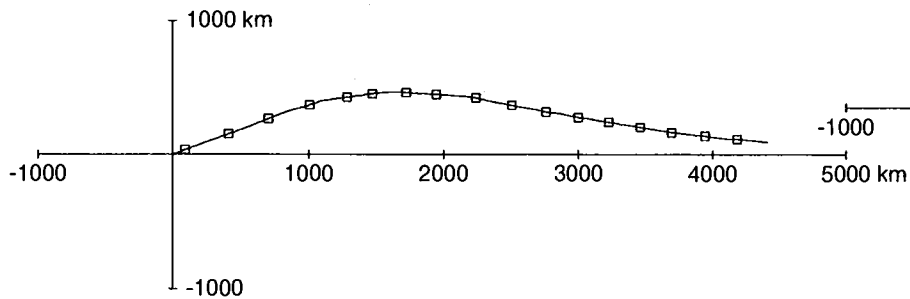
N ↑



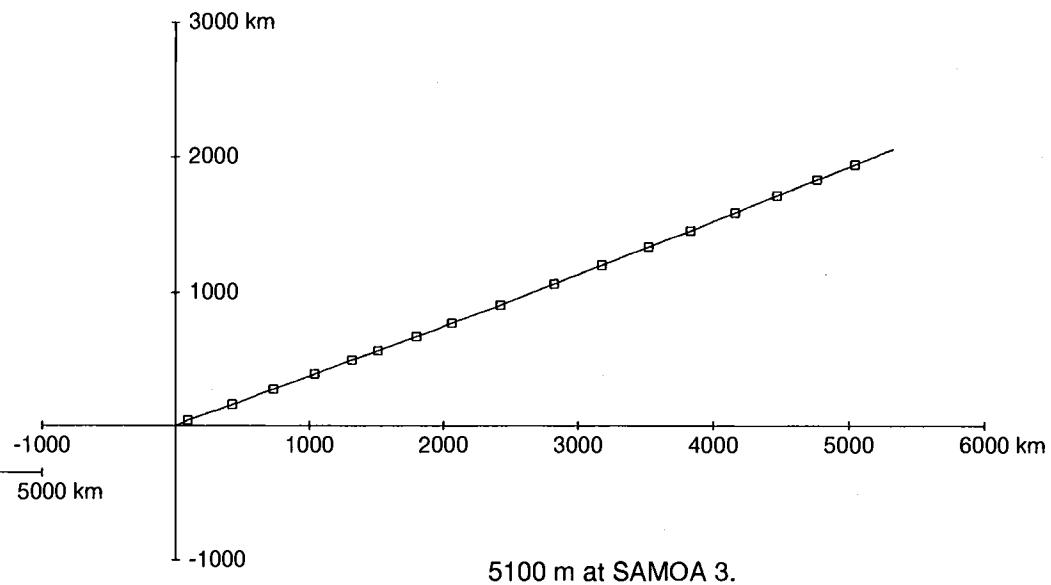
4350 m at SAMOA 3.



4650 m at SAMOA 3.

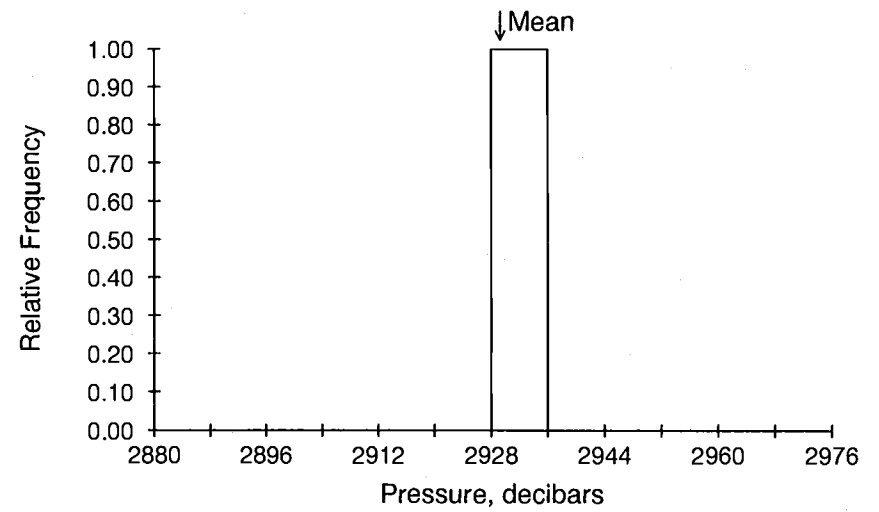
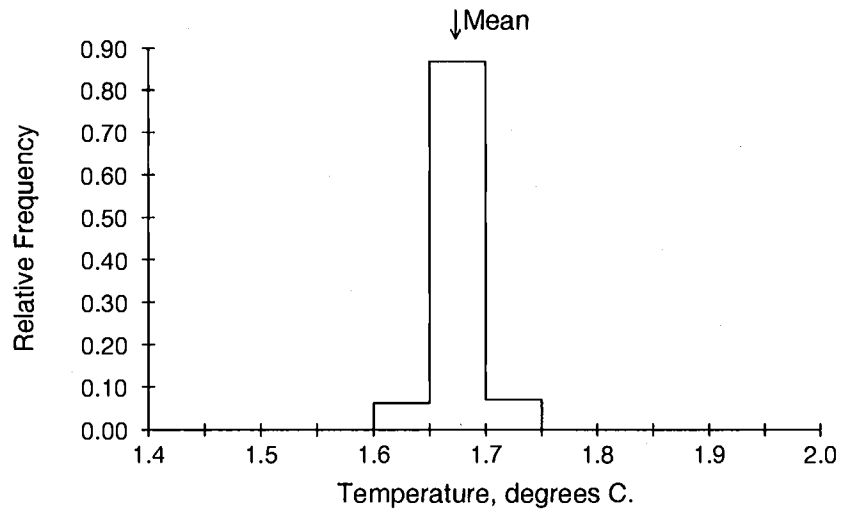
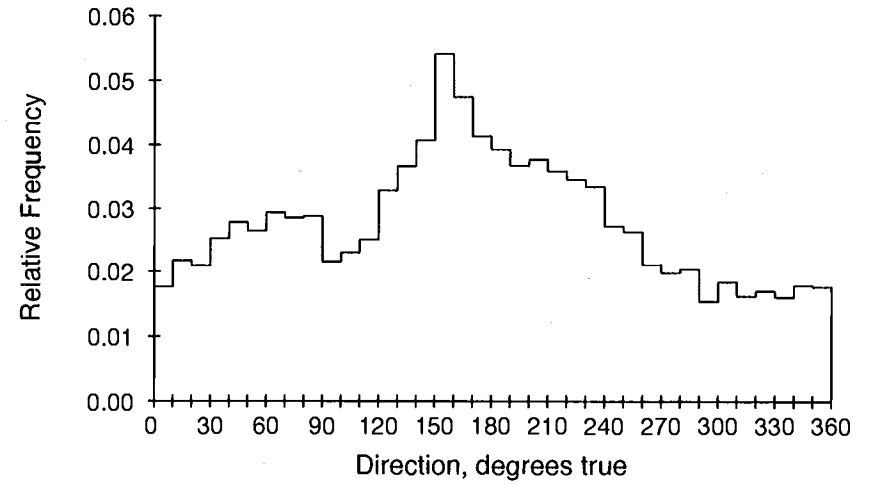
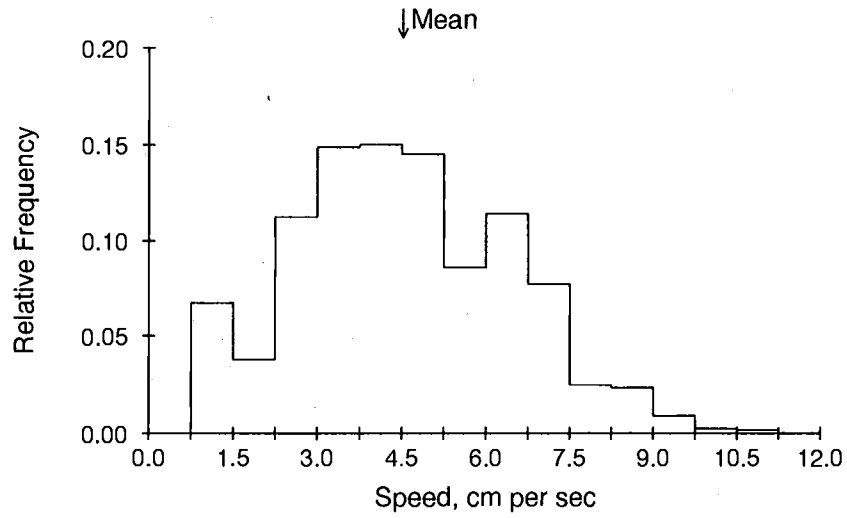


4900 m at SAMOA 3.

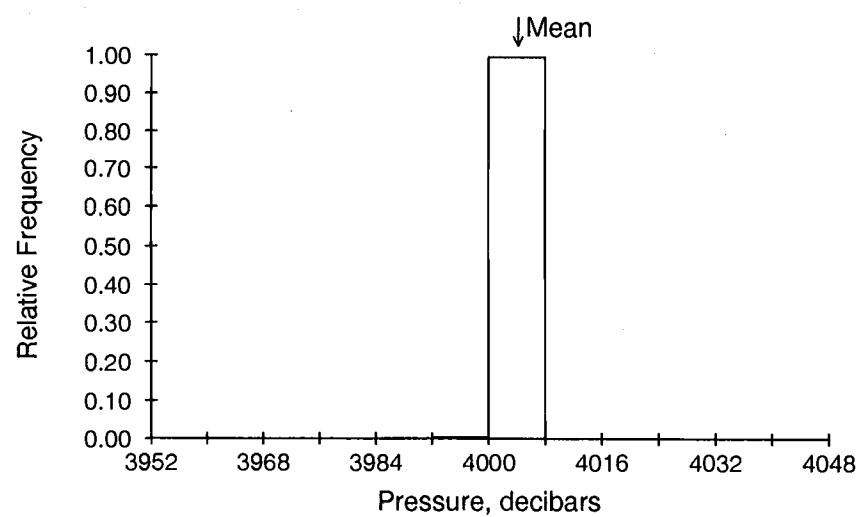
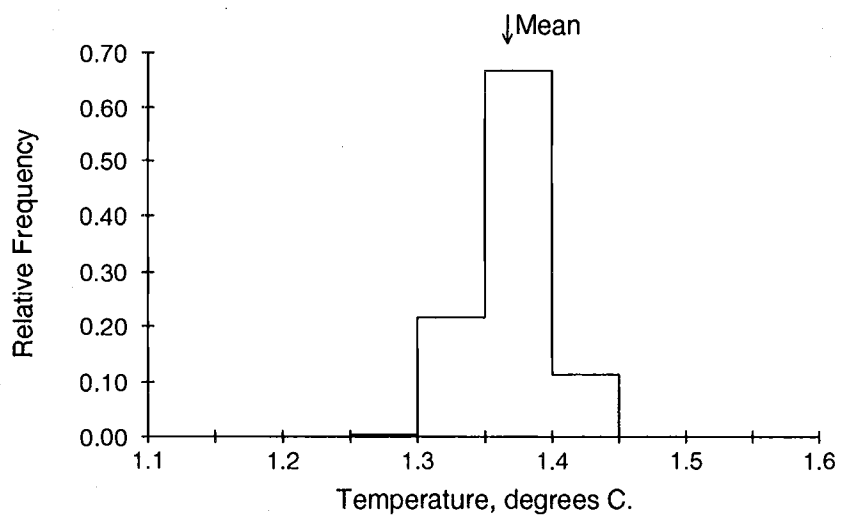
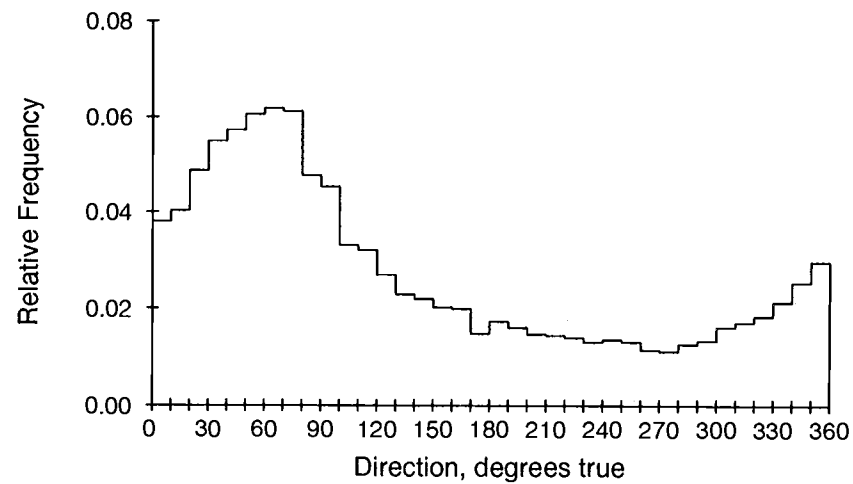
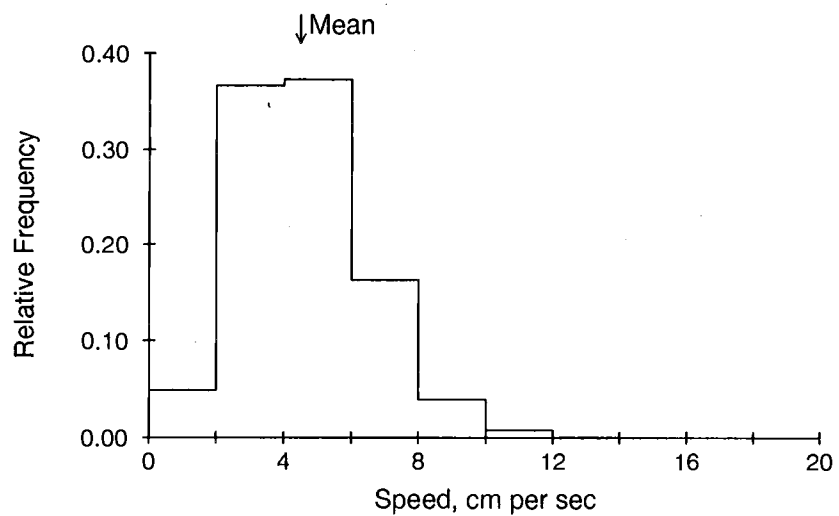


5100 m at SAMOA 3.

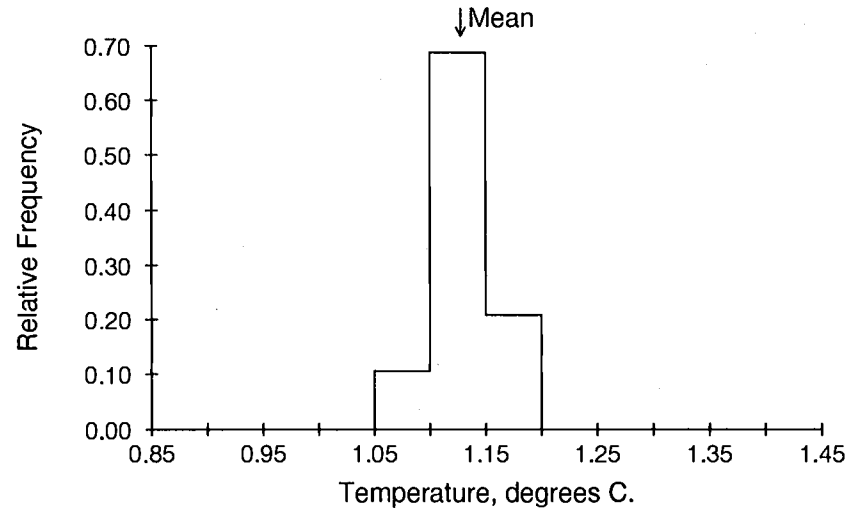
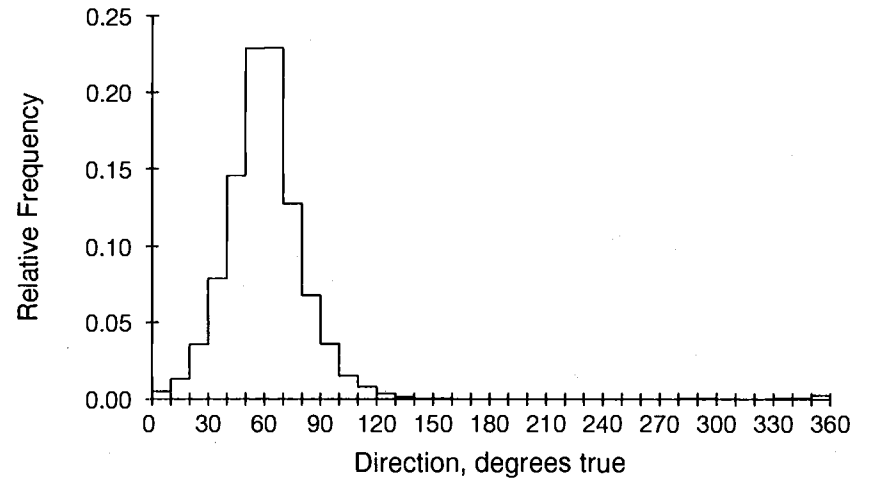
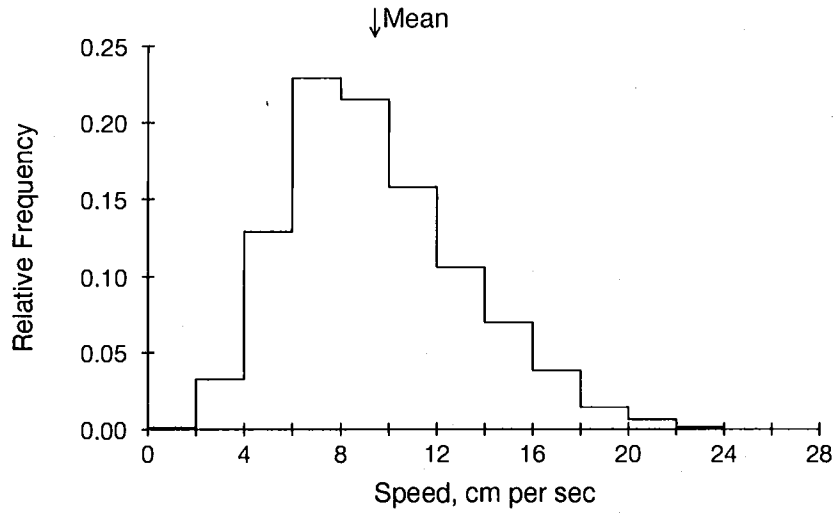
2890m at SAMOA 3. 22 Sep 92 - 25 Feb 94. RCM 4913/25.



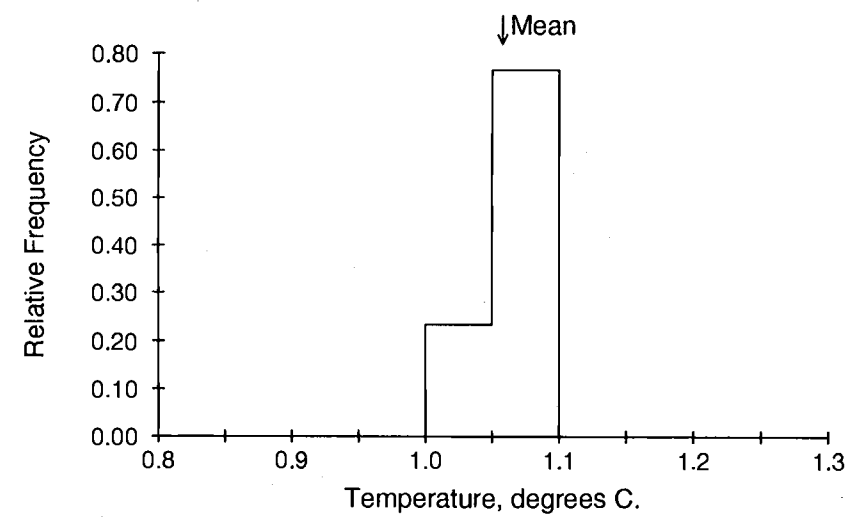
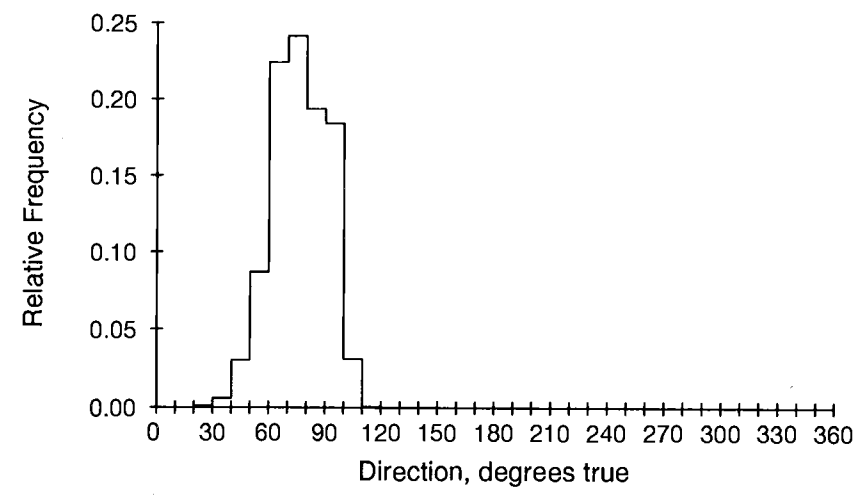
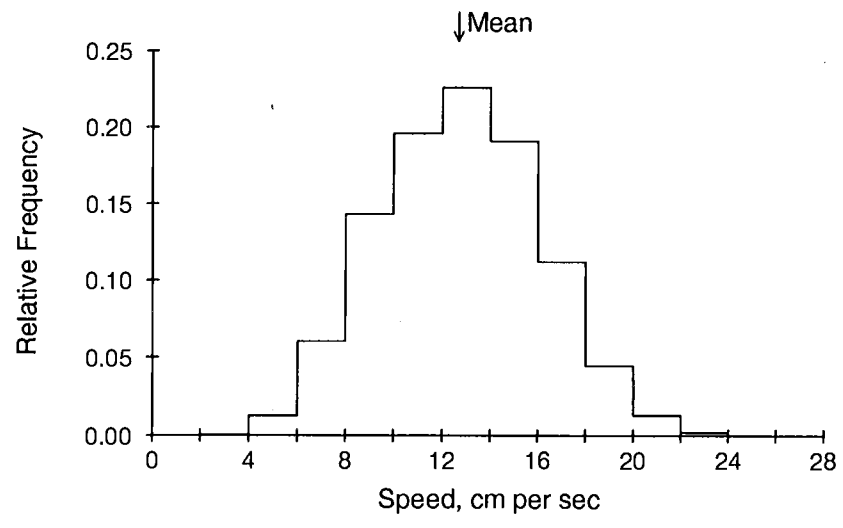
3040m at SAMOA 3. 22 Sep 92 - 25 Feb 94. RCM 6733/32.



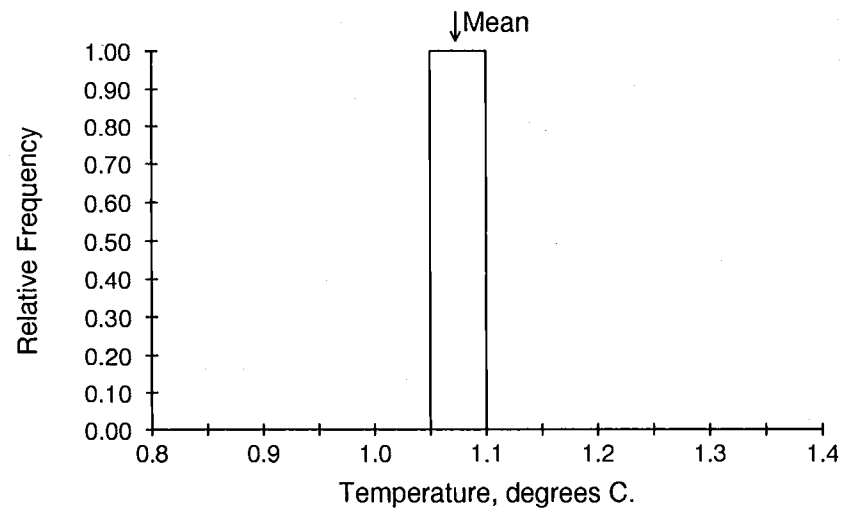
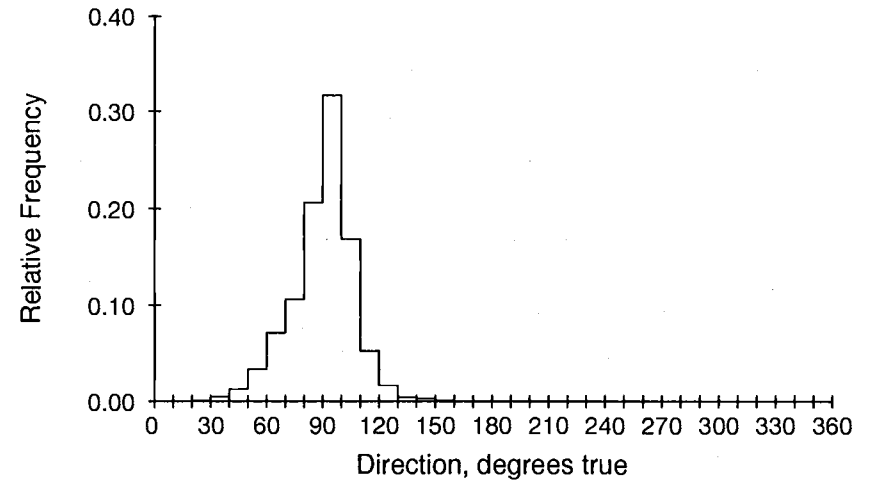
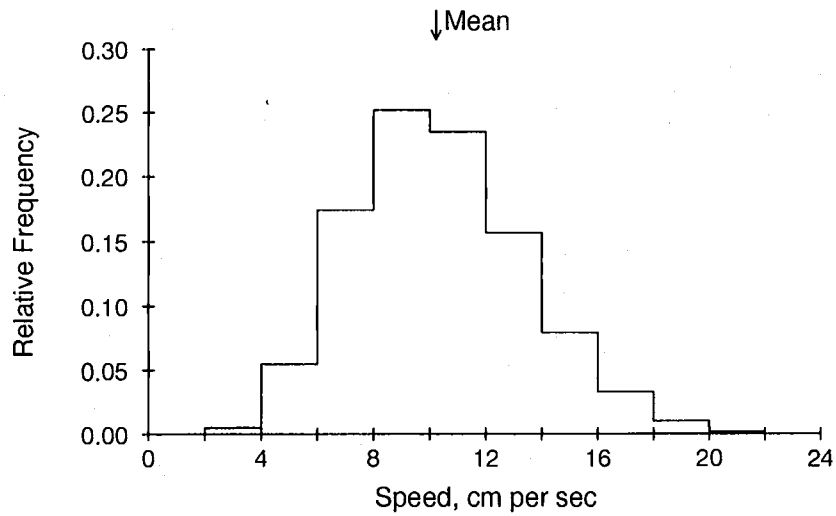
4350m at SAMOA 3. 22 Sep 92 - 25 Feb 94. RCM 7209/29.



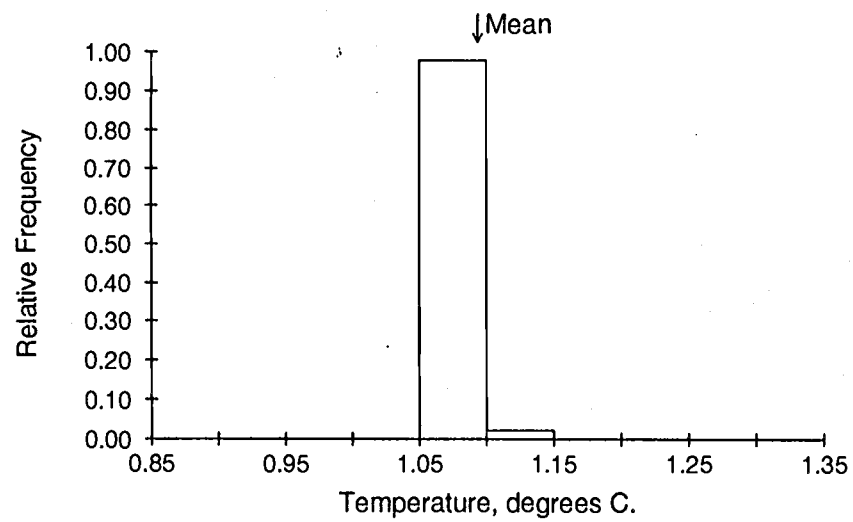
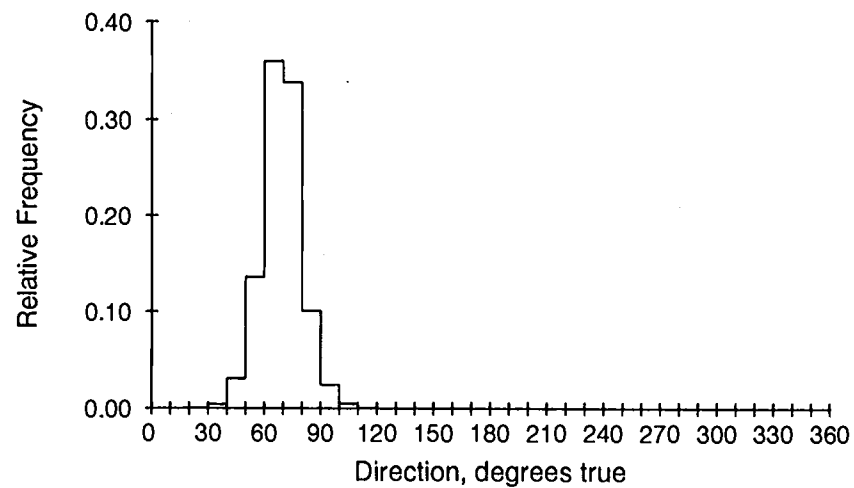
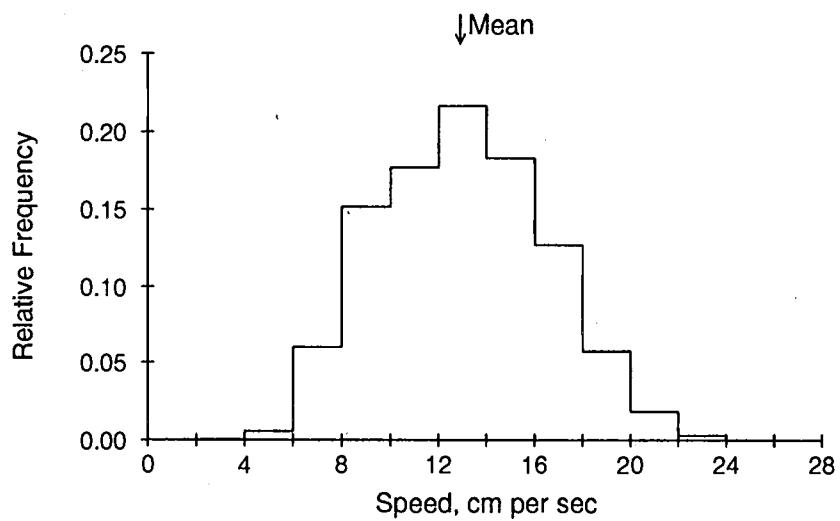
4650m at SAMOA 3. 22 Sep 92 - 25 Feb 94. RCM 7215/28.



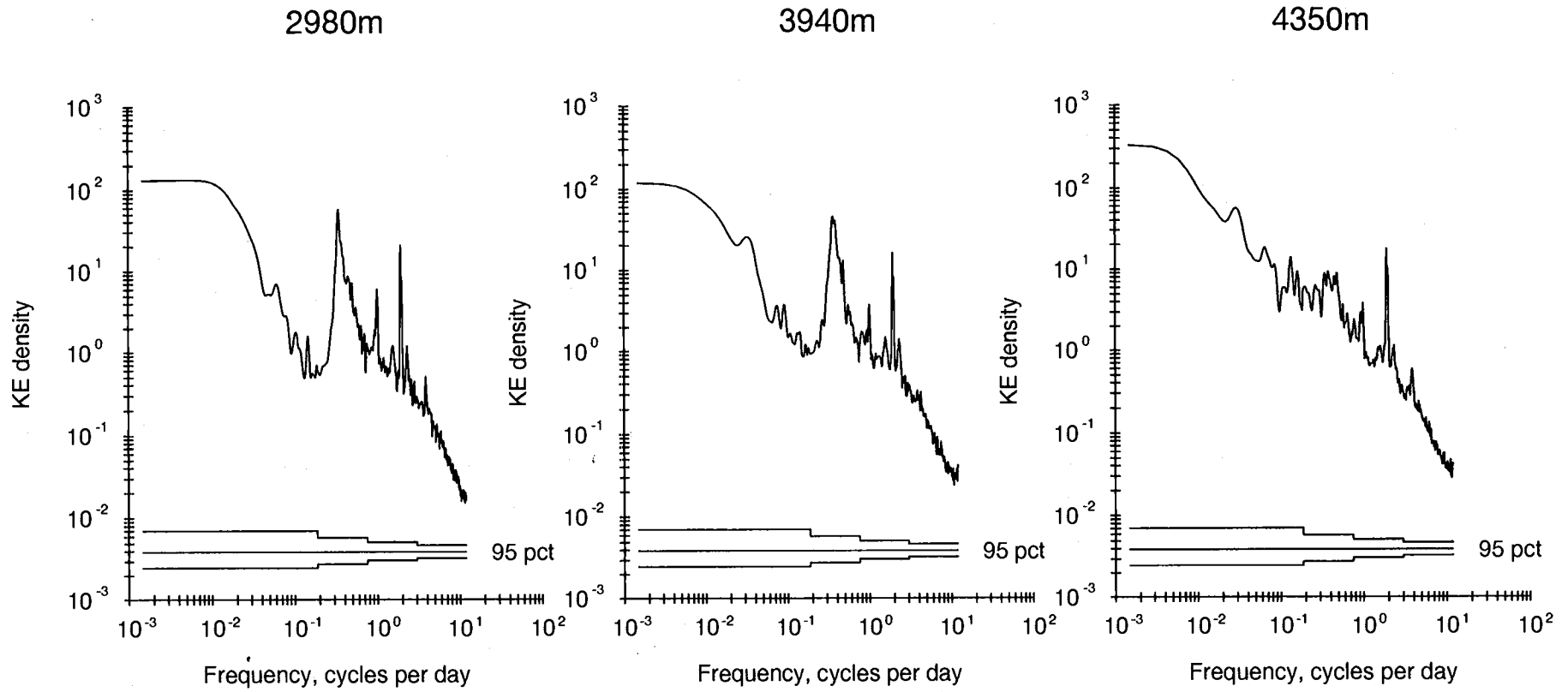
4900m at SAMOA 3. 22 Sep 92 - 25 Feb 94. RCM 7769/24.



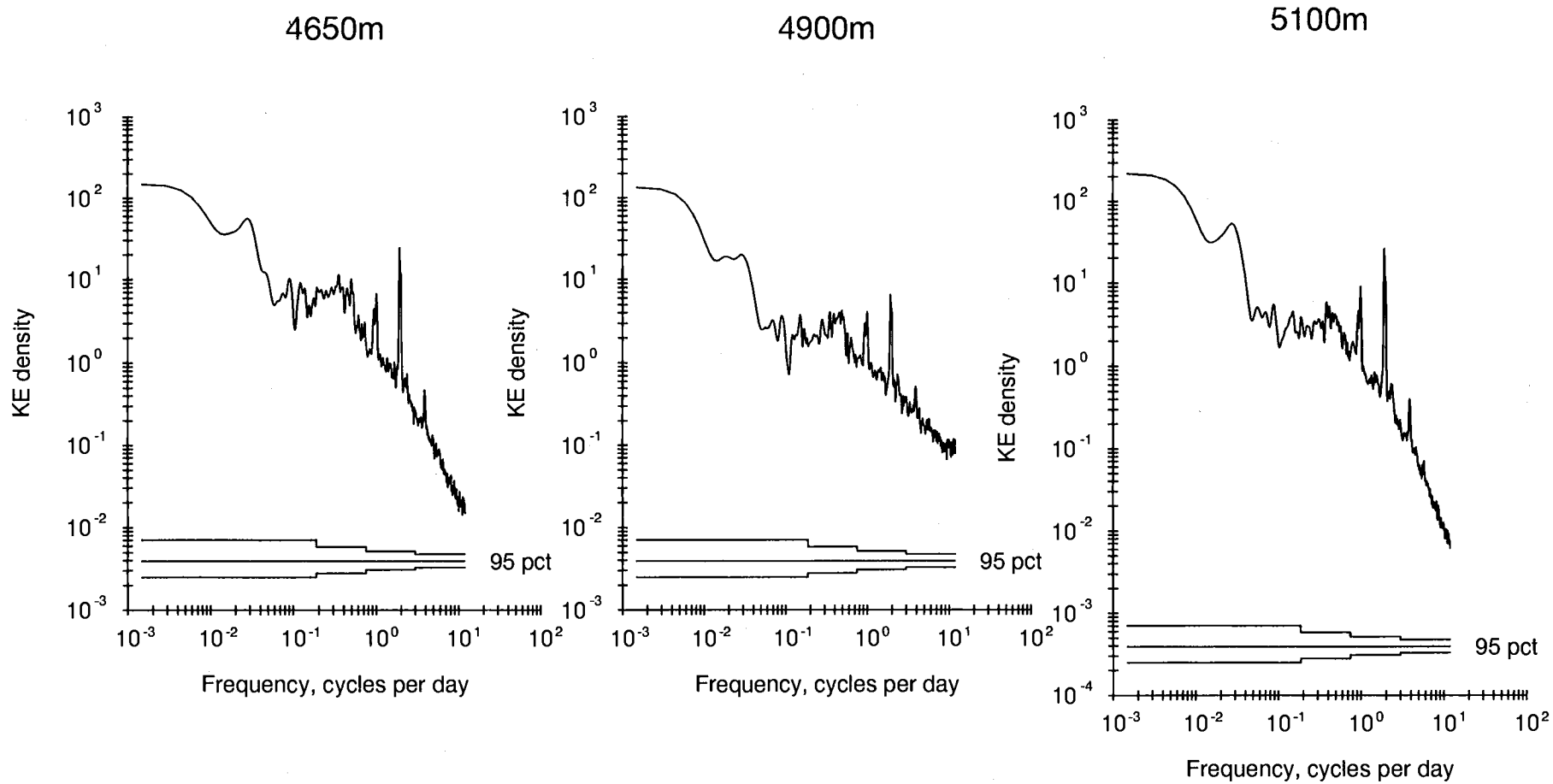
5100m at SAMOA 3. 22 Sep 92 - 25 Feb 94. RCM 10645/6

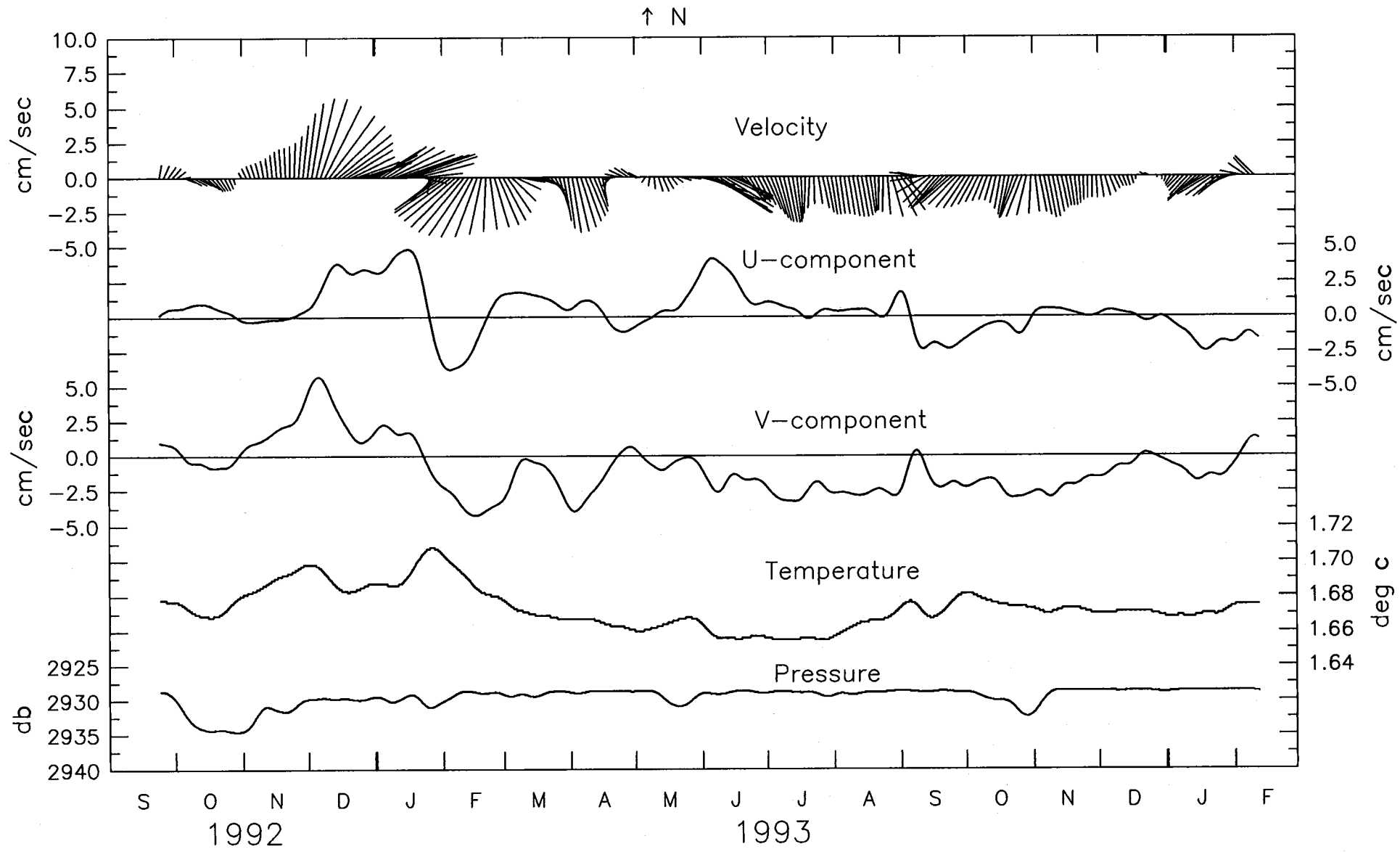


Mooring SAMOA 3. Unfiltered current.

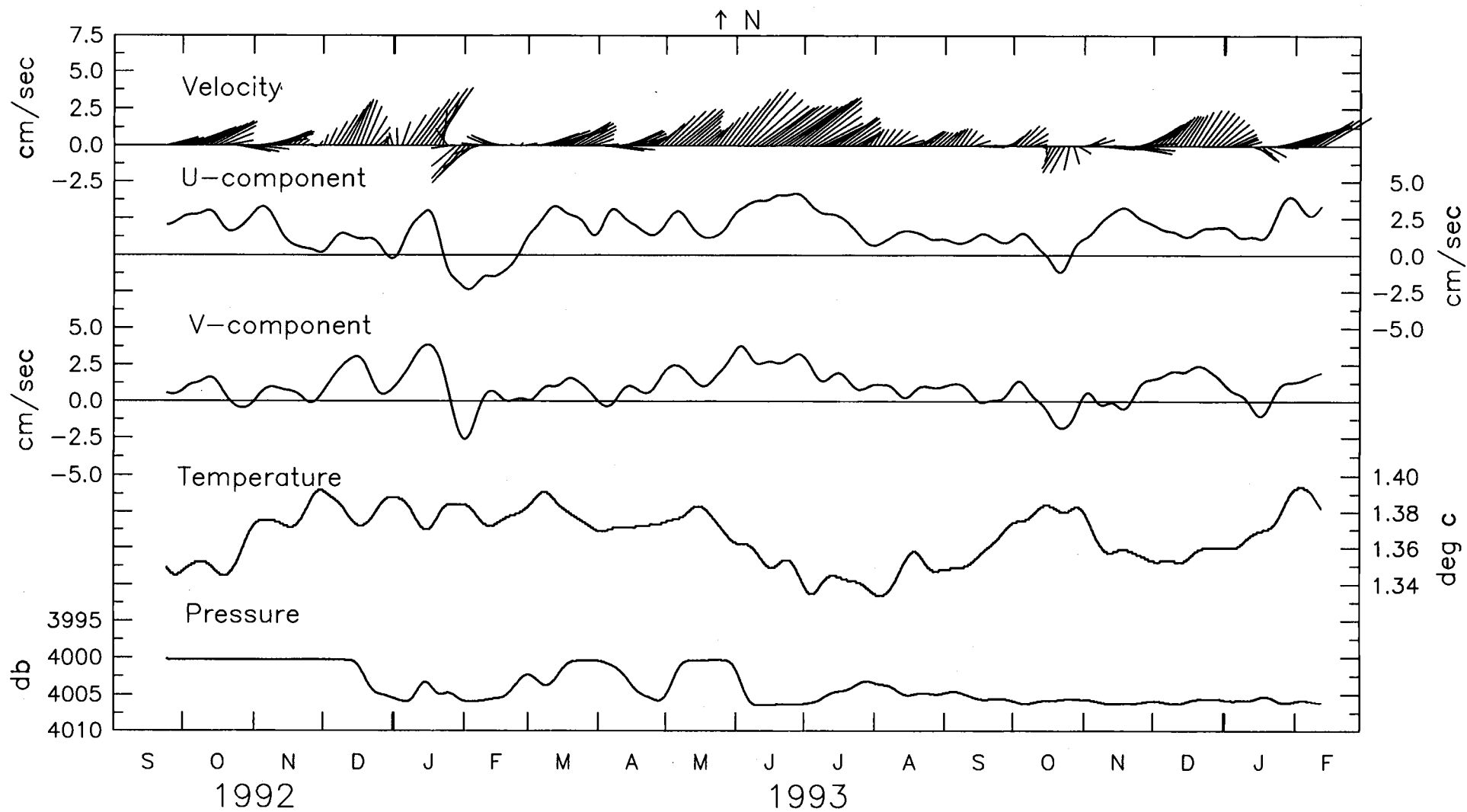


Mooring SAMOA 3. Unfiltered current.



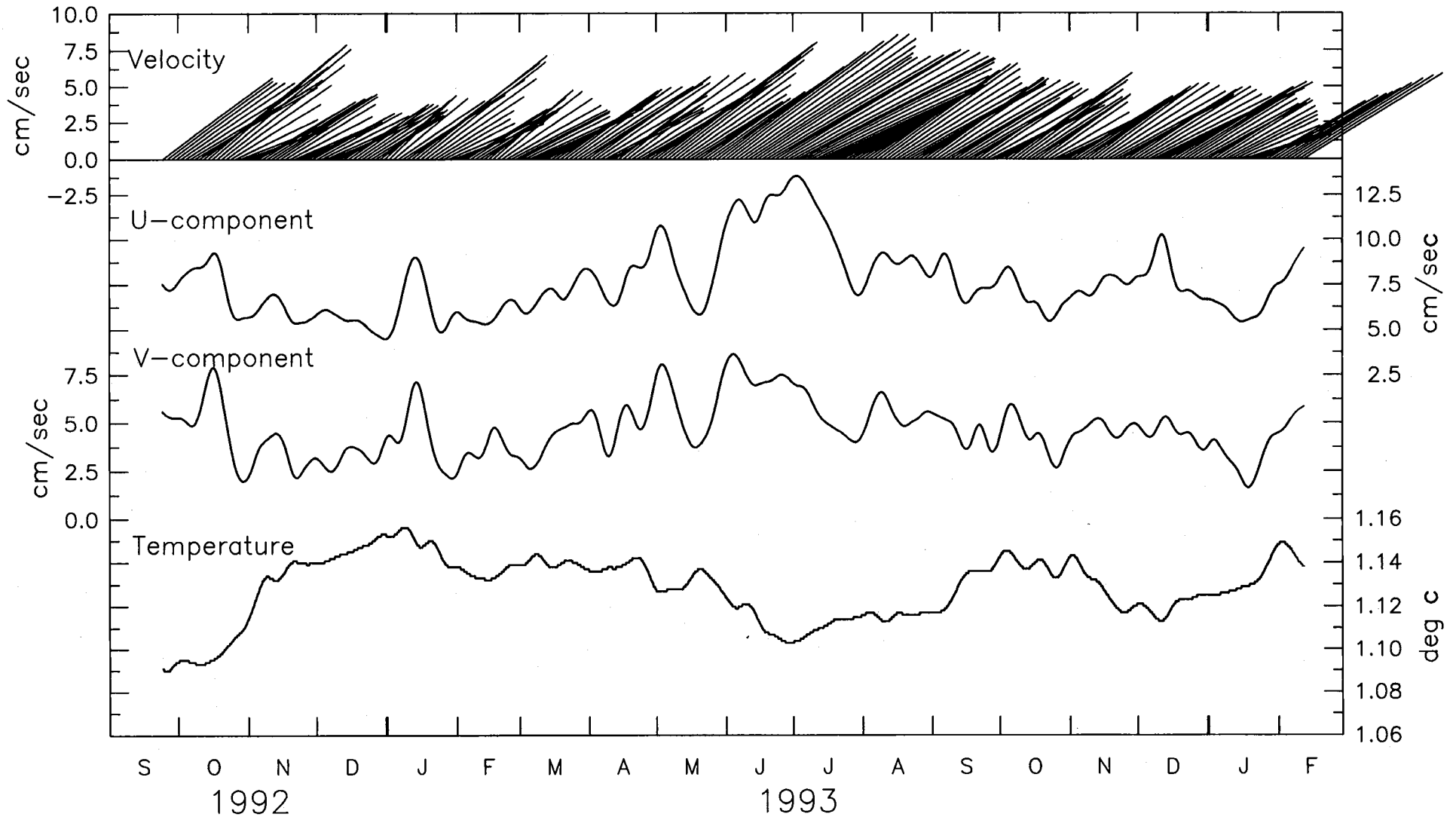


2890m at SAMOA 3. Low-Passed Data.

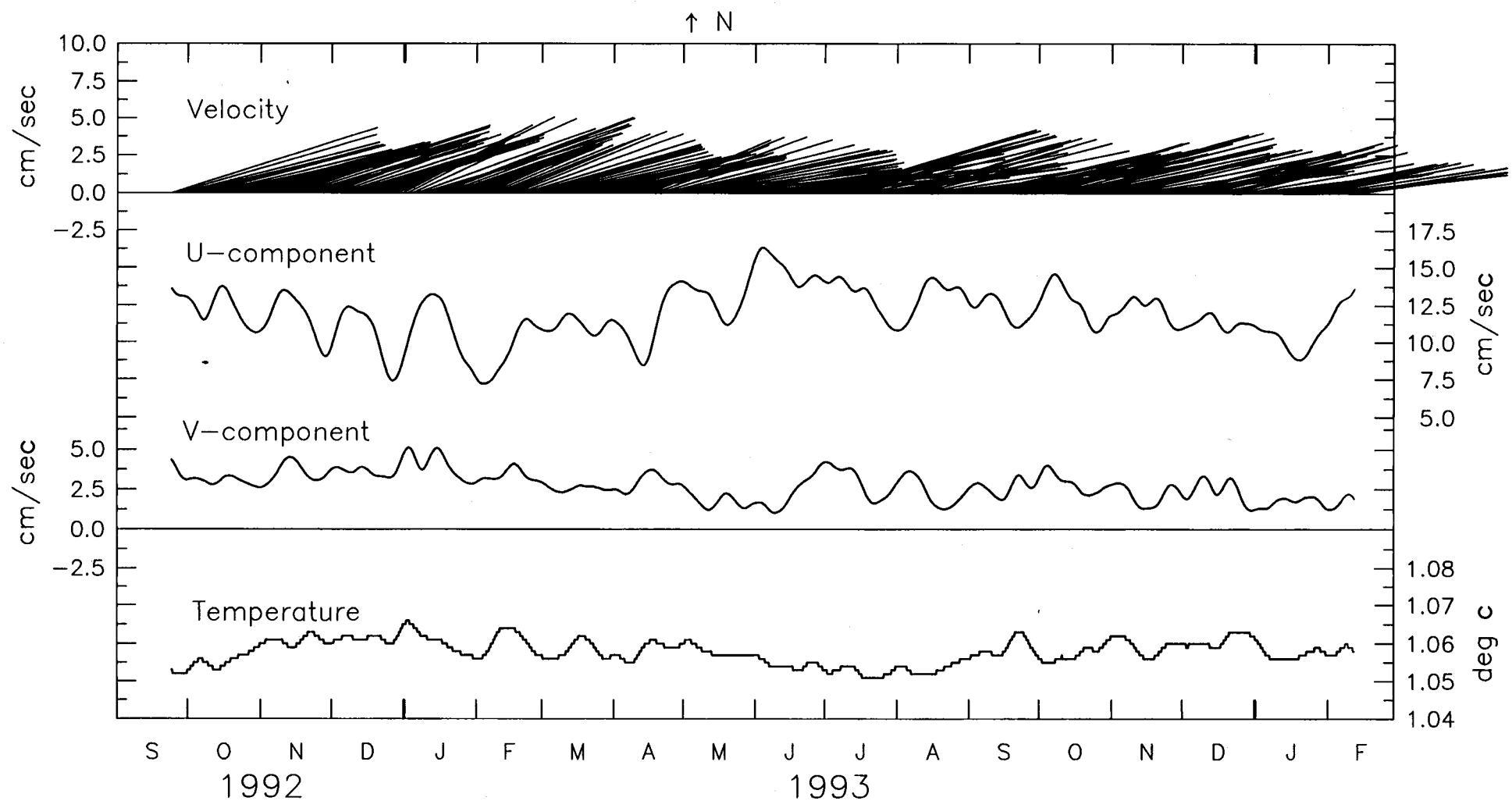


3940m at SAMOA 3. Low-Passed Data.

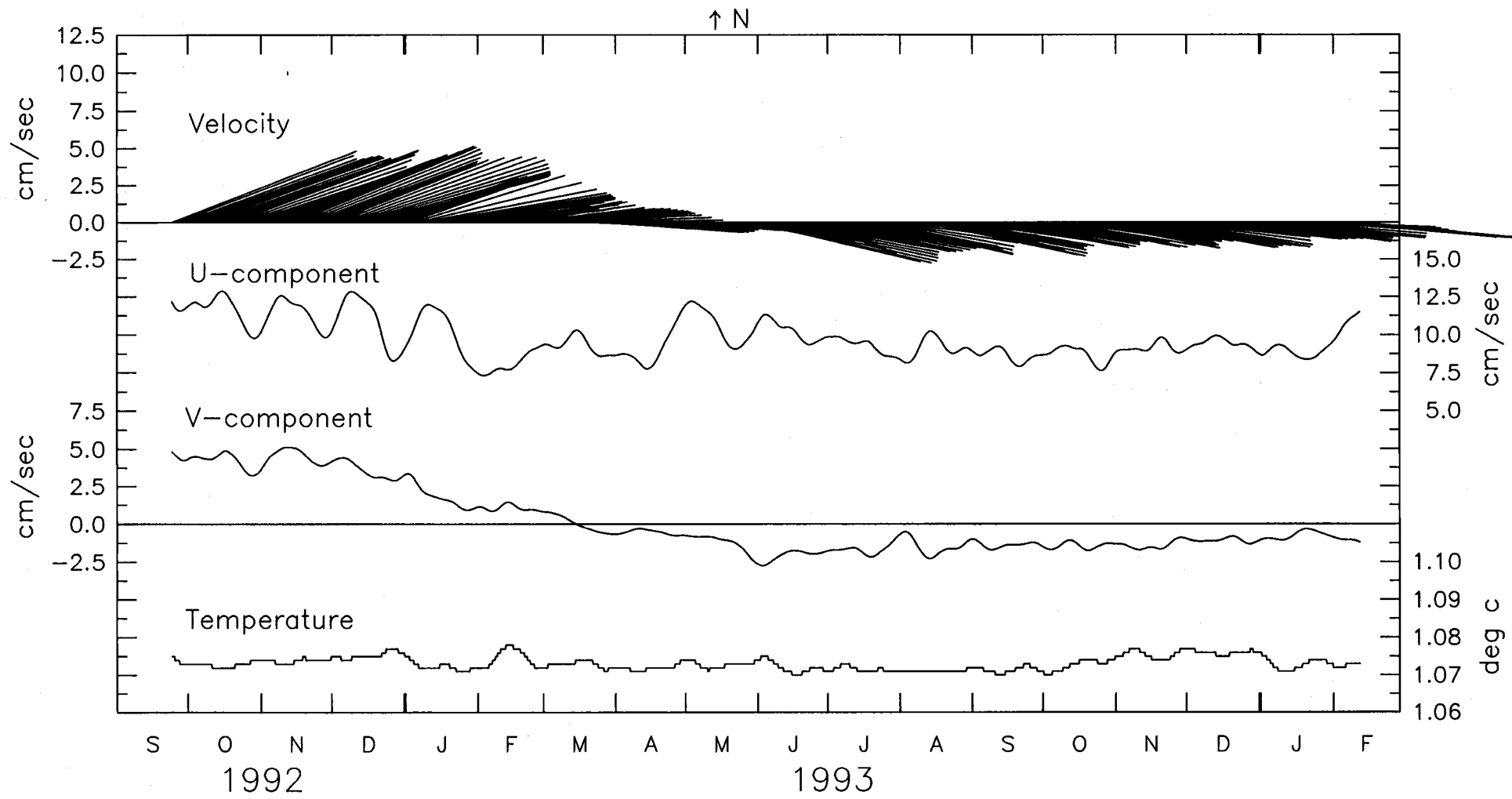
↑ N



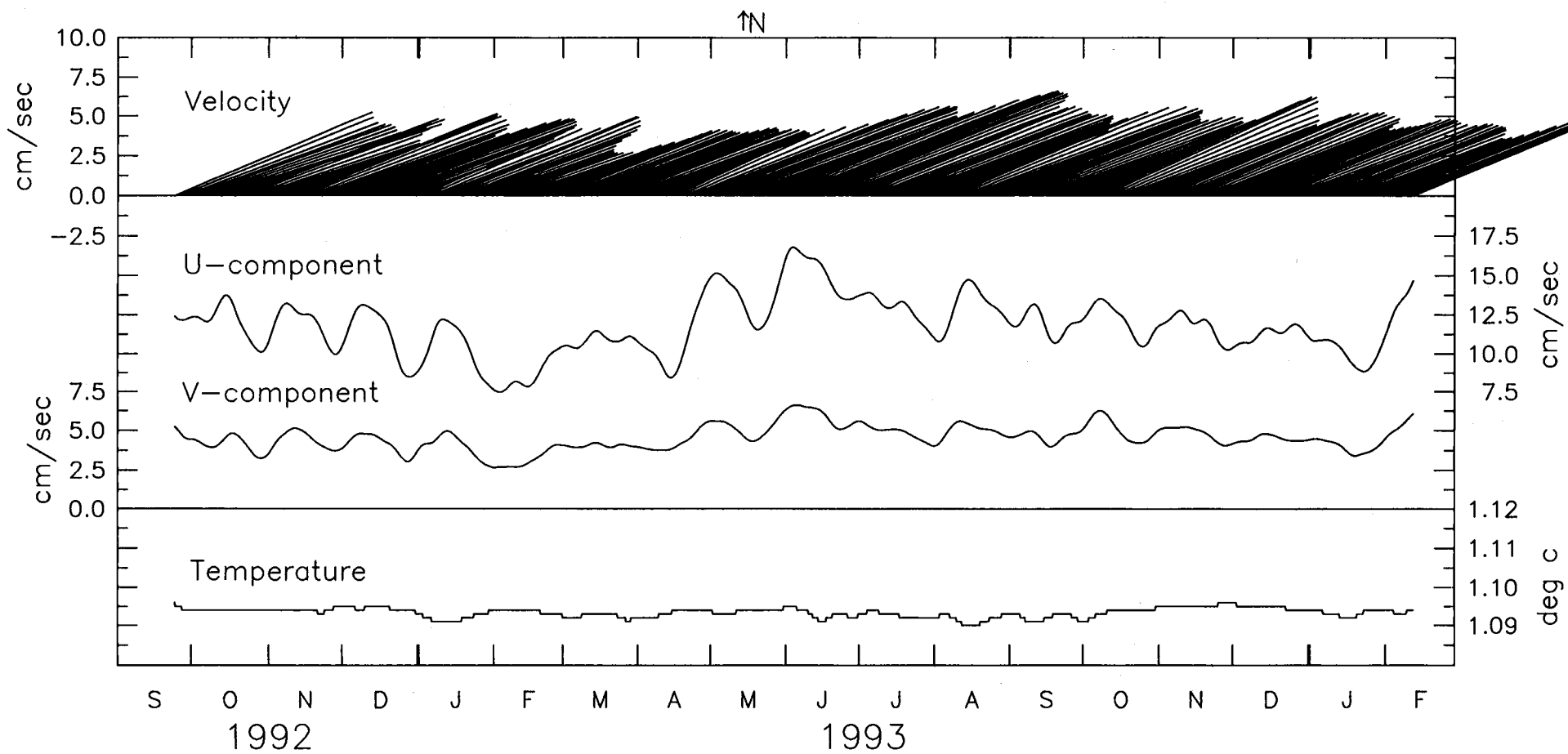
4350m at SAMOA 3. Low-Passed Data.



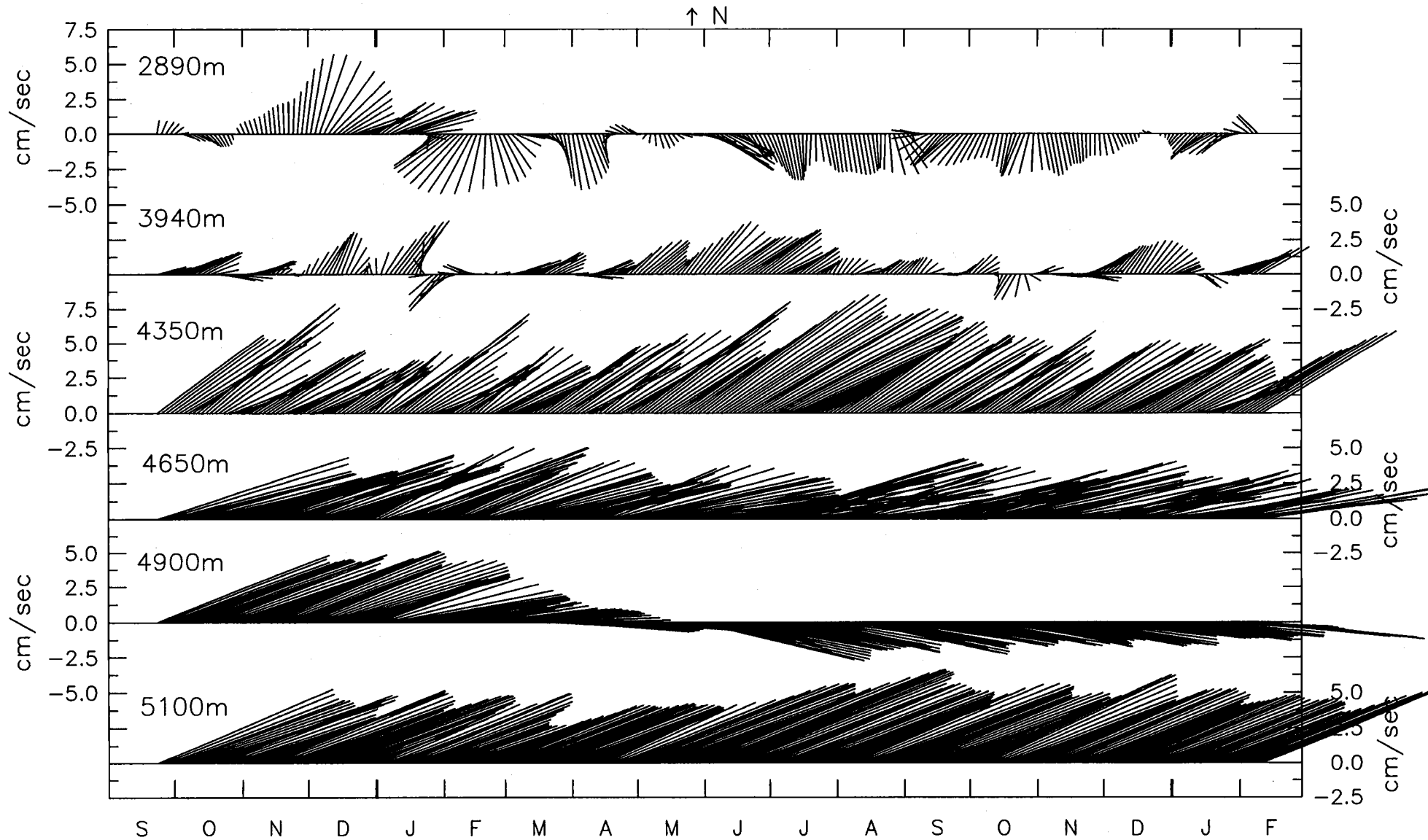
4650m at SAMOA 3. Low-Passed Data.



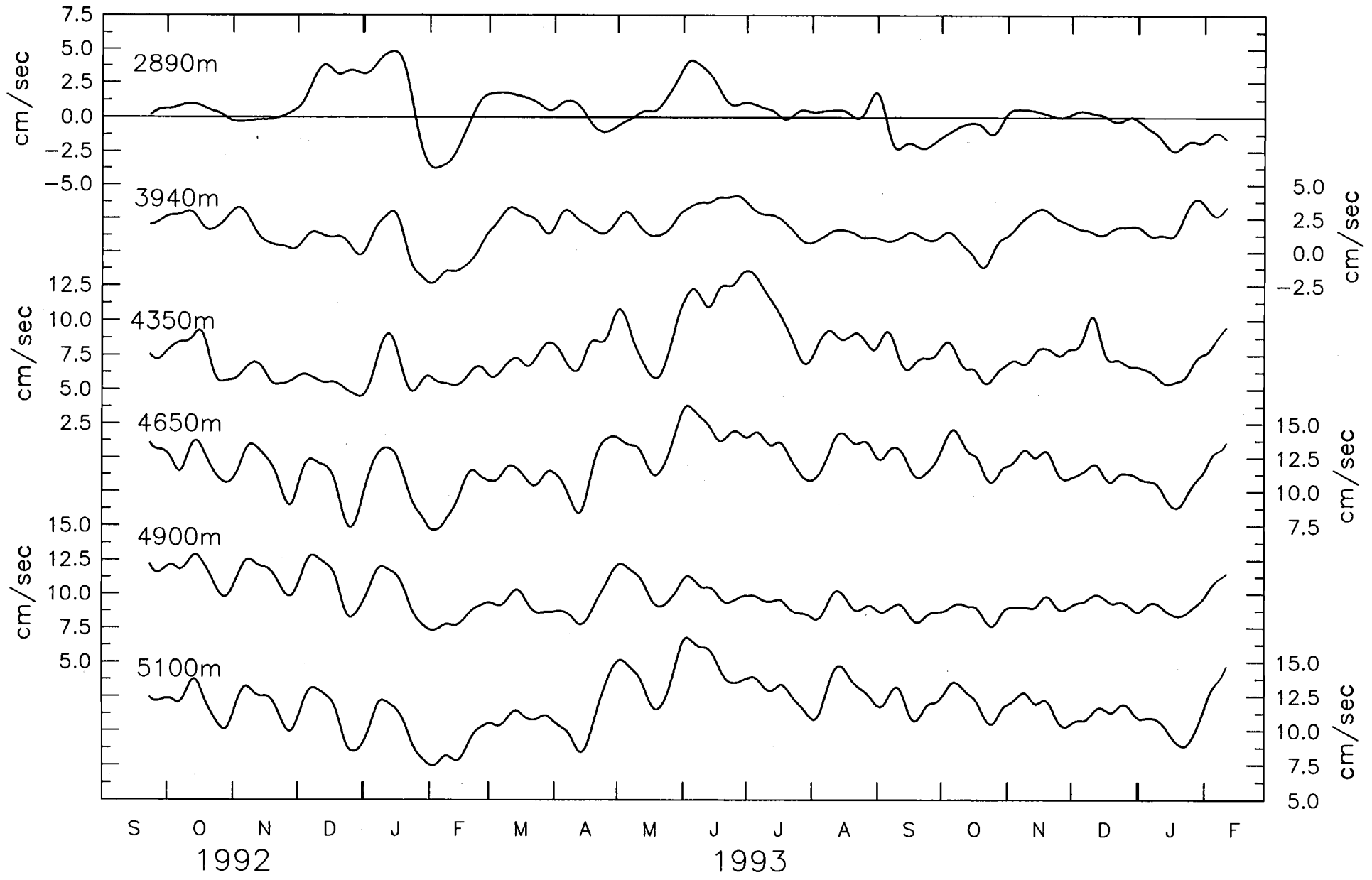
4900m at SAMOA 3. Low-Passed Data.



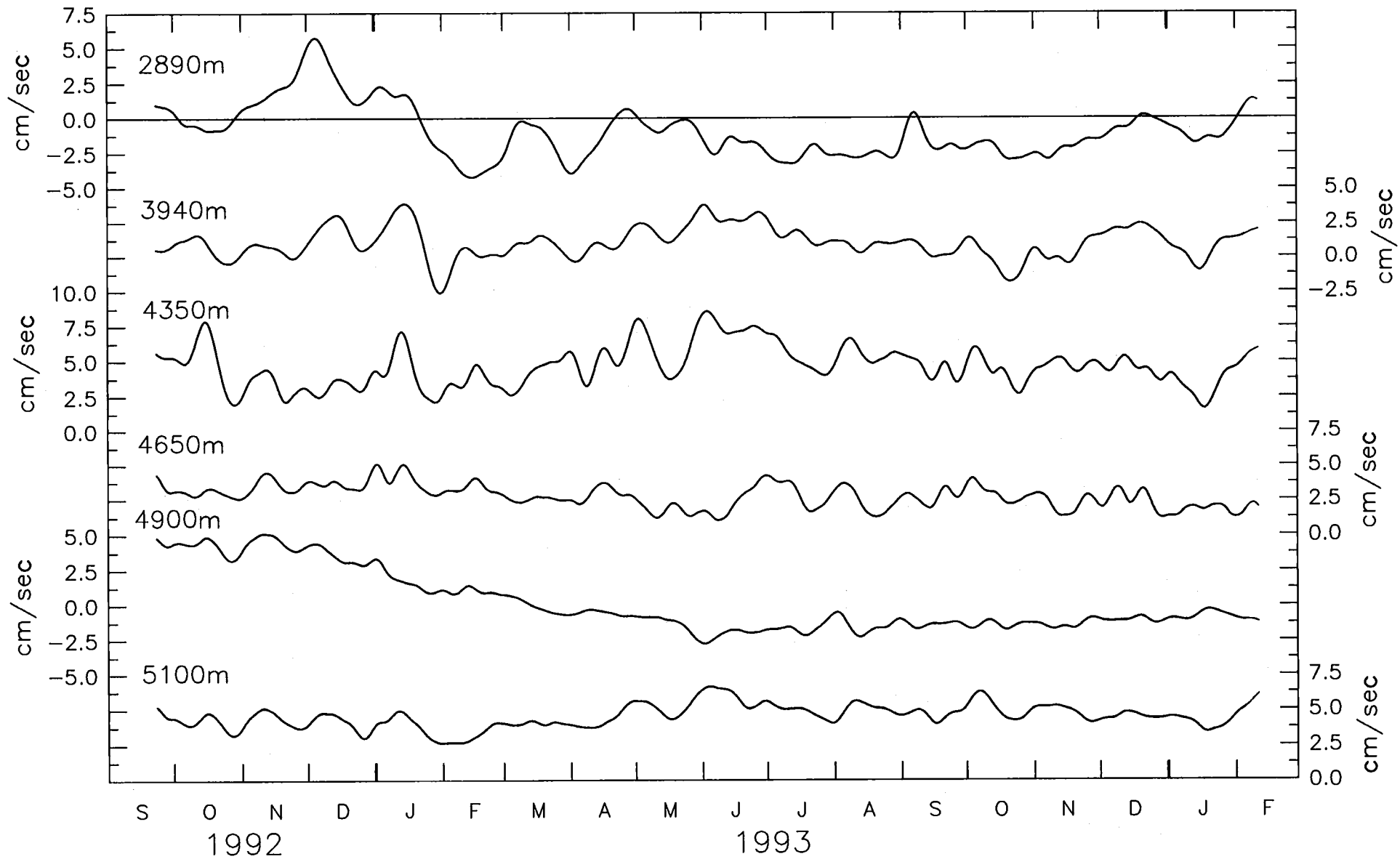
5100m at SAMOA 3. Low-Passed Data.



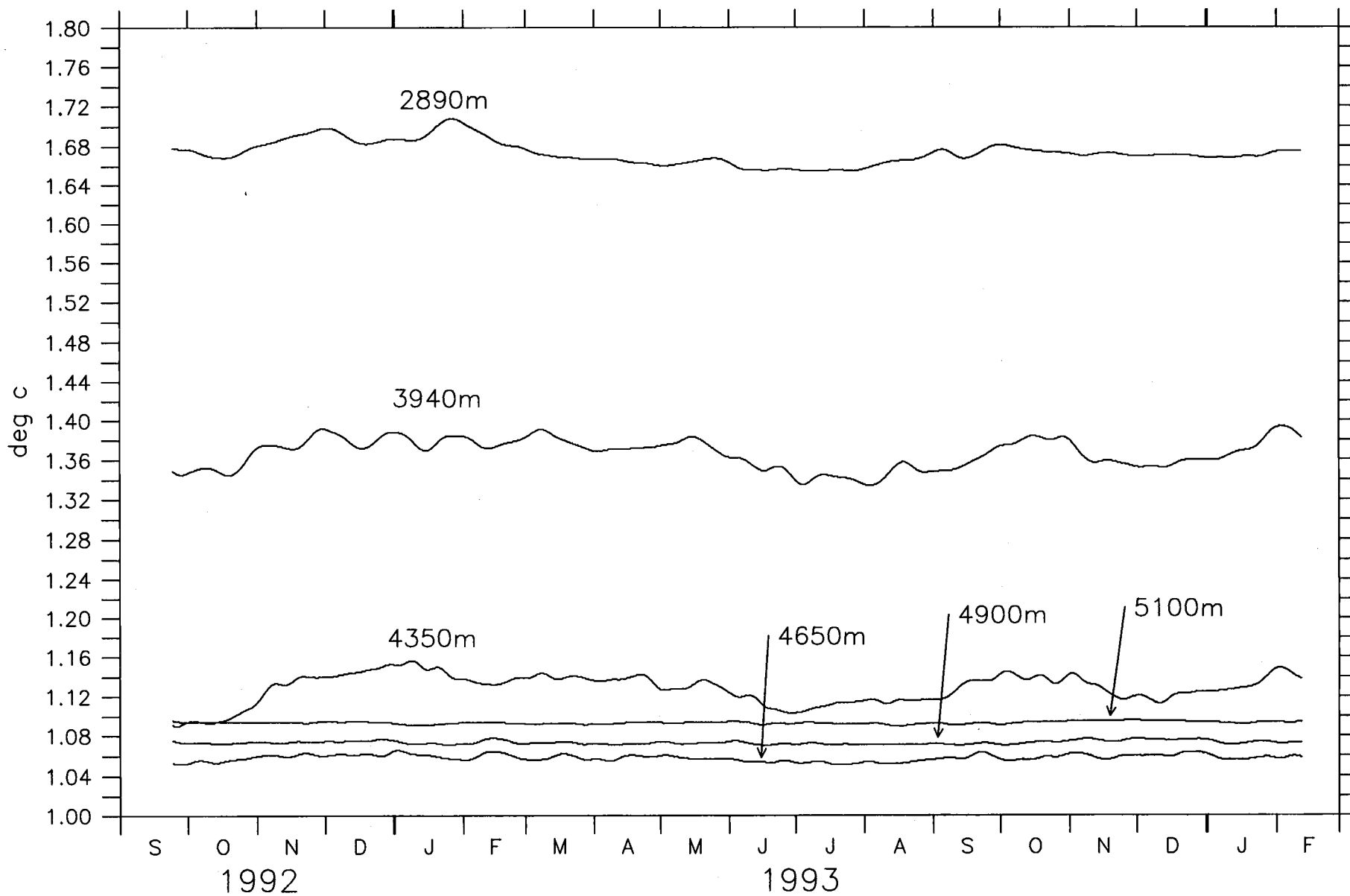
Velocity at SAMOA 3. Low-Passed Data.



U-Component at SAMOA 3. Low-Passed Data.



V-Component at SAMOA 3. Low-Passed Data.

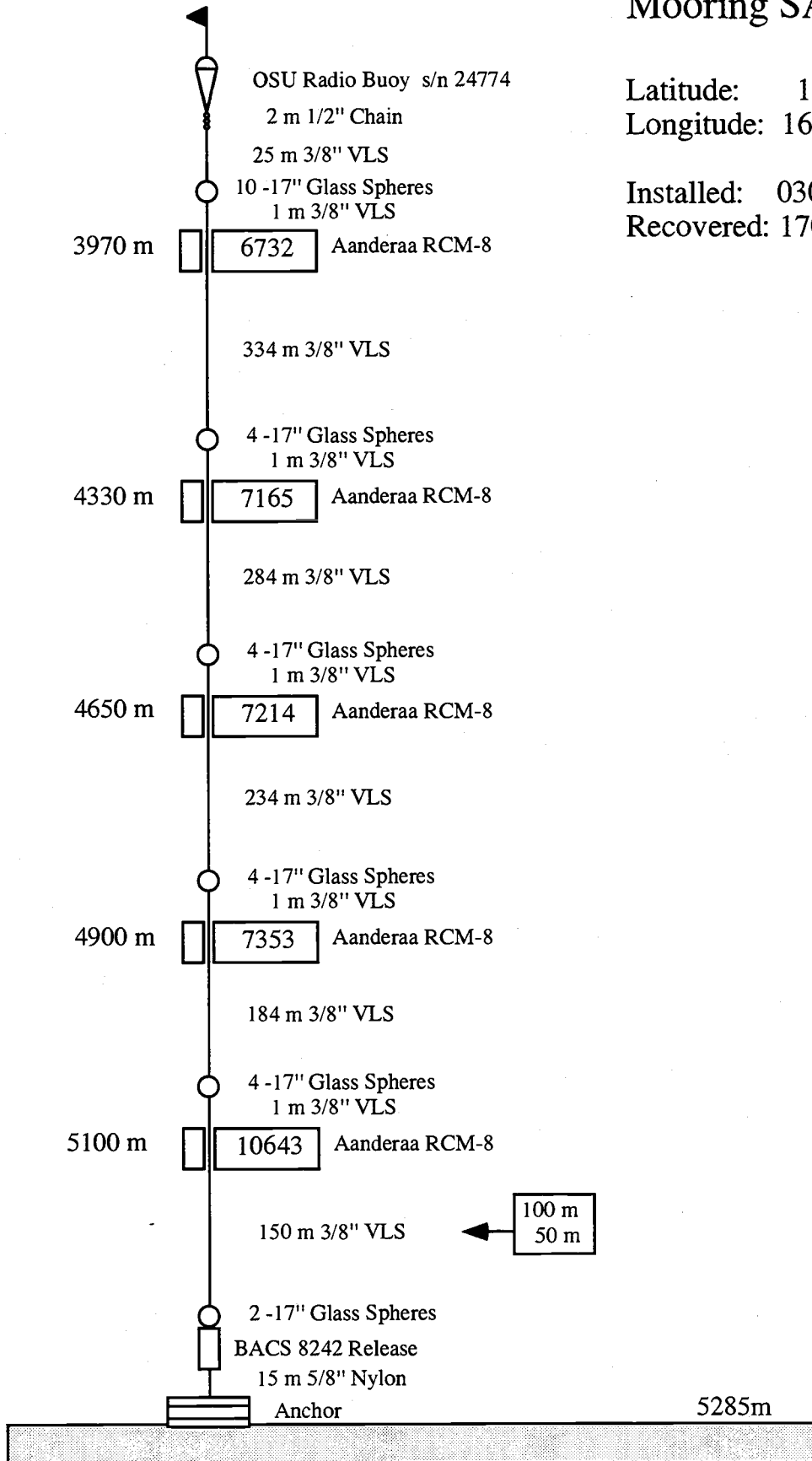


Temperature at SAMOA 3. Low-Passed Data.

Mooring SAMOA 4

Latitude: 10° 00.13' S
 Longitude: 169° 29.42' W

Installed: 0309 21 Sep. '92
 Recovered: 1709 25 Feb. '94



Mooring SAMOA 4.

Position: 10° 00.13' S
 169° 29.42' W
 Depth of Water: 5285m
 Mooring Set: 0309 U.C.T. 21 September 1992
 Mooring Retrieved: 1709 U.C.T. 25 February 1994
 Data Interval: 0600 U.C.T. 21 September 1992 - 1600 25 February 1994

Instrumentation:

Depth m	RCM8 Serial No./Sequence No.
3970m	6732/25
4300m	7165/30
4650m	7214/28
4900m	7353/31
5100m	10643/5

Instrument 6732 recorded speed, direction, temperature, and pressure every 60 minutes until recovery. No corrections were made.

Instrument 7165 recorded speed, direction, temperature and pressure every 60 minutes. No corrections.

Instrument 7214 recorded speed, direction and temperature every 60 minutes. No corrections.

Instrument 7353 recorded speed, direction, and temperature every 60 minutes. No corrections.

Instrument 10643 recorded speed, direction, and temperature every 60 minutes. No corrections.

SAMOA 4.
Statistics, Unfiltered Hourly Data

3970 meters at SAMOA 4. 21 Sep 92 - 25 Feb 94. Tape 6732/25.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.68	14.02	2.08	12539
U, cm/sec	-11.09	1.45	12.23	3.43	12539
V, cm/sec	-12.65	-0.58	11.43	3.48	12539
Temp, deg c	1.31	1.41	1.48	0.02	12539
Pressure, db	4035.74	4046.69	4048.95	3.23	12539

4300 meters at SAMOA 4. 21 Sep 92 - 25 Feb 94. Tape 7165/30.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.63	13.45	2.02	12539
U, cm/sec	-7.93	2.46	12.01	2.86	12539
V, cm/sec	-9.01	1.69	11.66	2.90	12539
Temp, deg c	1.08	1.15	1.23	0.02	12539
Pressure,db	4374.81	4383.03	4386.33	2.86	12539

4650 meters at SAMOA 4. 21 Sep 92 - 25 Feb 94. Tape 7214/28.

	min	mean	max	sd	num
Speed, cm/sec	0.93	5.04	15.17	2.18	12540
U, cm/sec	-6.50	3.08	12.39	2.66	12540
V, cm/sec	-6.10	2.63	11.14	2.57	12540
Temp, deg c	1.04	1.06	1.09	0.01	12540

4900 meters at SAMOA 4. 21 Sep 92 - 25 Feb 94. Tape 7353/31.

	min	mean	max	sd	num
Speed, cm/sec	0.93	5.53	18.91	2.59	12540
U, cm/sec	-7.11	3.73	14.49	3.08	12540
V, cm/sec	-6.10	2.53	13.84	2.74	12540
Temp, deg c	1.07	1.08	1.09	0.00	12540

5100 meters at SAMOA 4. 21 Sep 92 - 25 Feb 94. Tape 10643/5.

	min	mean	max	sd	num
Speed, cm/sec	0.93	5.17	17.47	2.43	12541
U, cm/sec	-6.64	3.28	14.56	2.96	12541
V, cm/sec	-7.11	2.41	13.21	2.71	12541
Temp, deg c	1.08	1.10	1.12	0.00	12541

SAMOA 4.
Statistics, Low-Passed Data

3970 meters at SAMOA 4. 28 Sep 92 - 18 Feb 94. Tape 6732/25.

	min	mean	max	sd	num
Speed, cm/sec	0.17	2.24	5.82	1.02	2030
U, cm/sec	-0.89	1.46	5.69	1.24	2030
V, cm/sec	-4.39	-0.62	2.43	1.42	2030
Temp, deg c	1.38	1.41	1.44	0.01	2030
Pressure, db	4039.81	4046.75	4048.95	2.57	2030

4300 meters at SAMOA 4. 28 Sep 92 - 18 Feb 94. Tape 7165/30.

	min	mean	max	sd	num
Speed, cm/sec	0.15	3.10	5.84	1.35	2030
U, cm/sec	-0.77	2.46	4.81	1.14	2030
V, cm/sec	-1.04	1.68	3.77	1.13	2030
Temp, deg c	1.11	1.15	1.18	0.02	2030
Pressure, db	4380.57	4383.03	4386.34	2.35	2030

4650 meters at SAMOA 4. 28 Sep 92 - 18 Feb 94. Tape 7214/28.

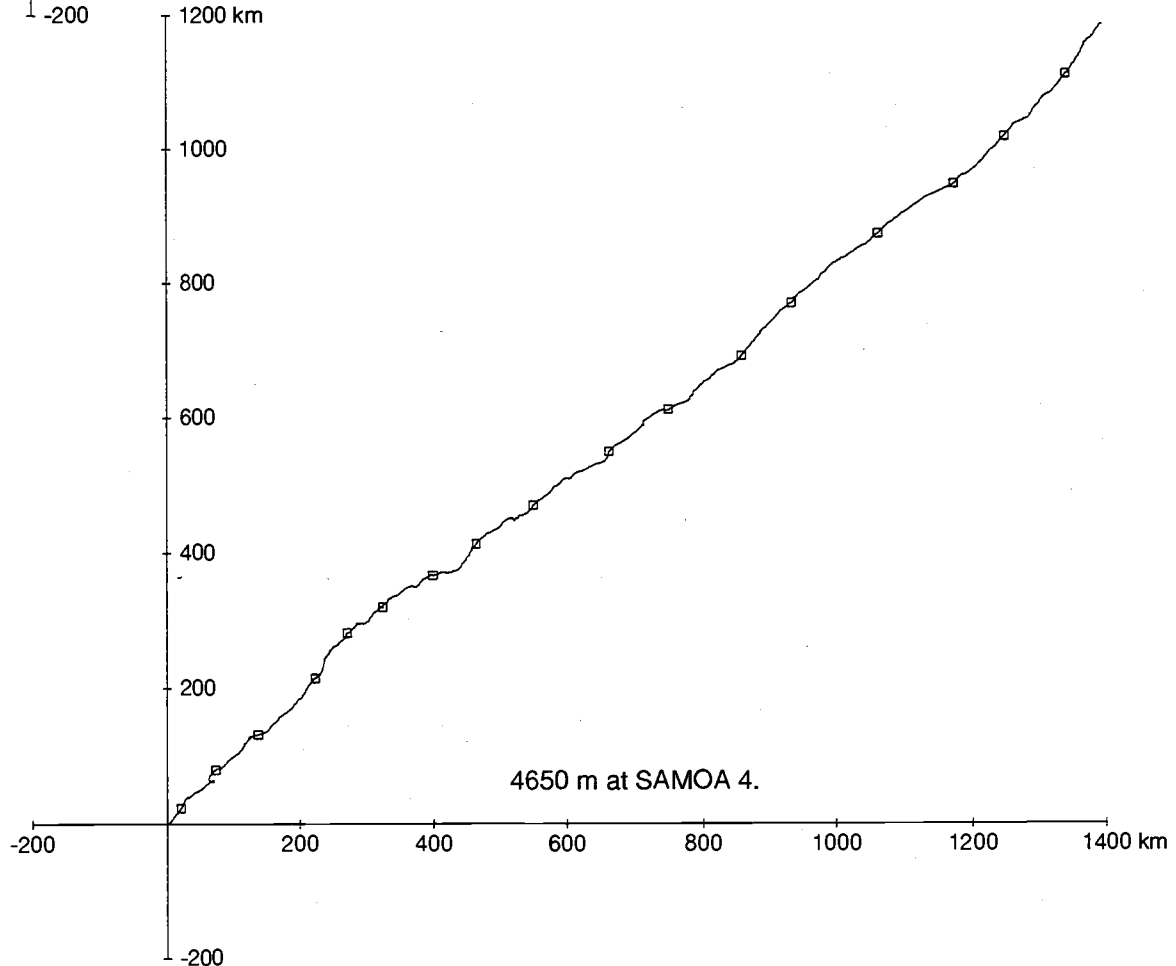
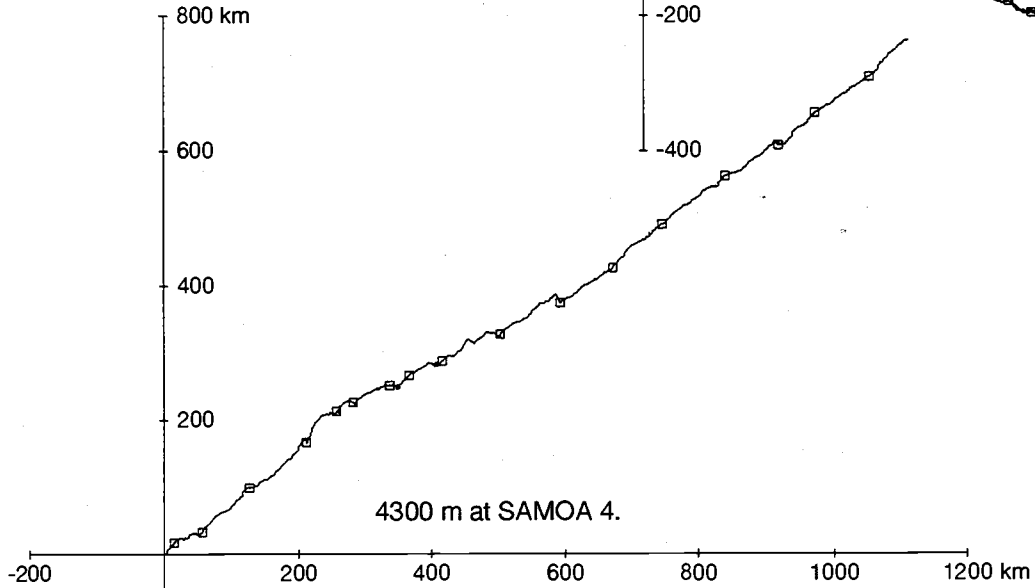
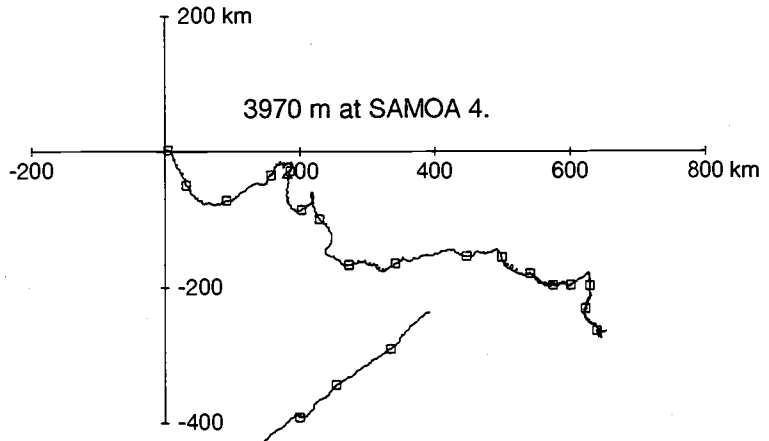
	min	mean	max	sd	num
Speed, cm/sec	0.65	4.13	7.30	1.27	2030
U, cm/sec	-0.61	3.11	6.04	1.12	2030
V, cm/sec	0.23	2.62	4.70	0.98	2030
Temp, deg c	1.05	1.06	1.07	0.00	2030

4900 meters at SAMOA 4. 28 Sep 92 - 18 Feb 94. Tape 7353/31.

	min	mean	max	sd	num
Speed, cm/sec	1.30	4.56	8.84	1.51	2030
U, cm/sec	0.43	3.71	7.03	1.42	2030
V, cm/sec	-0.31	2.52	5.92	0.98	2030
Temp, deg c	1.08	1.08	1.08	0.00	2030

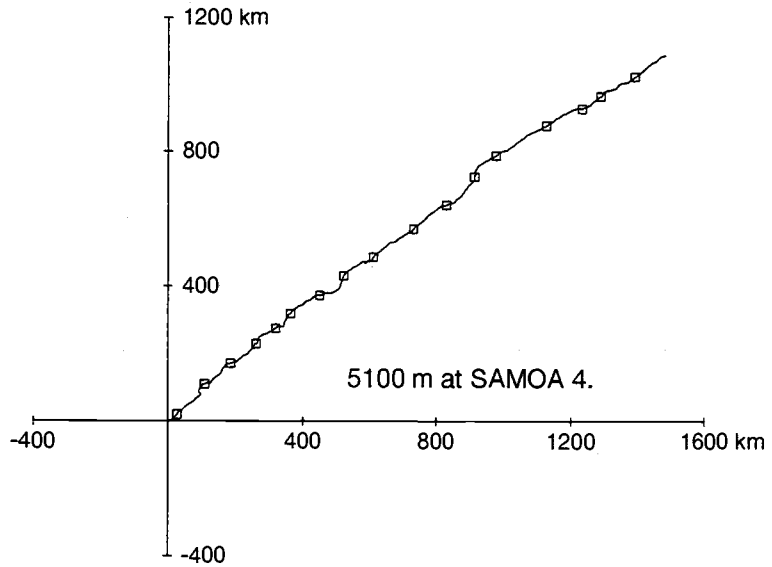
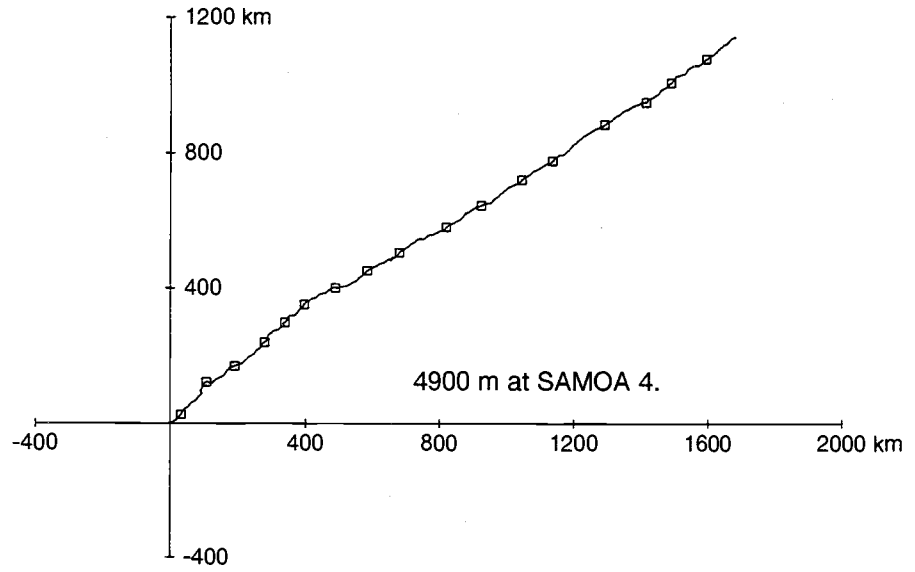
5100 meters at SAMOA 4. 28 Sep 92 - 18 Feb 94. Tape 10643/5.

	min	mean	max	sd	num
Speed, cm/sec	1.15	4.15	7.94	1.48	2030
U, cm/sec	-0.01	3.24	6.35	1.42	2030
V, cm/sec	0.12	2.40	4.77	1.05	2030
Temp, deg c	1.10	1.10	1.11	0.00	2030

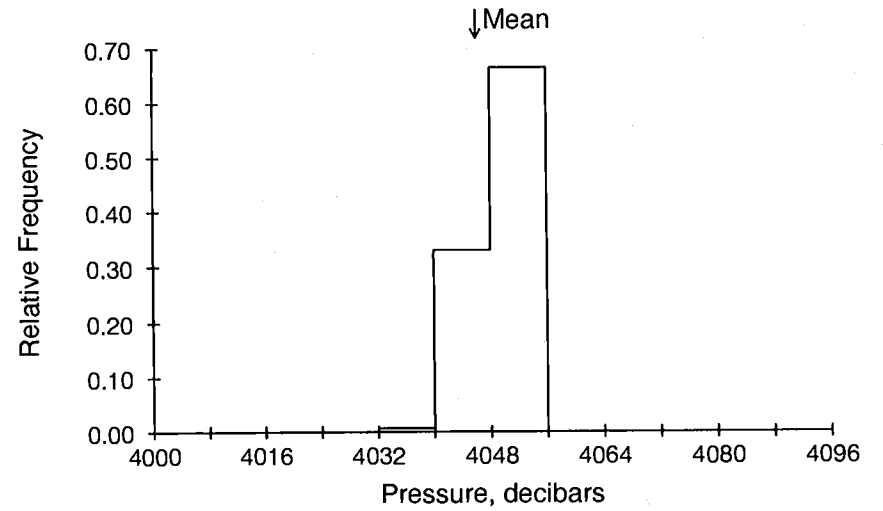
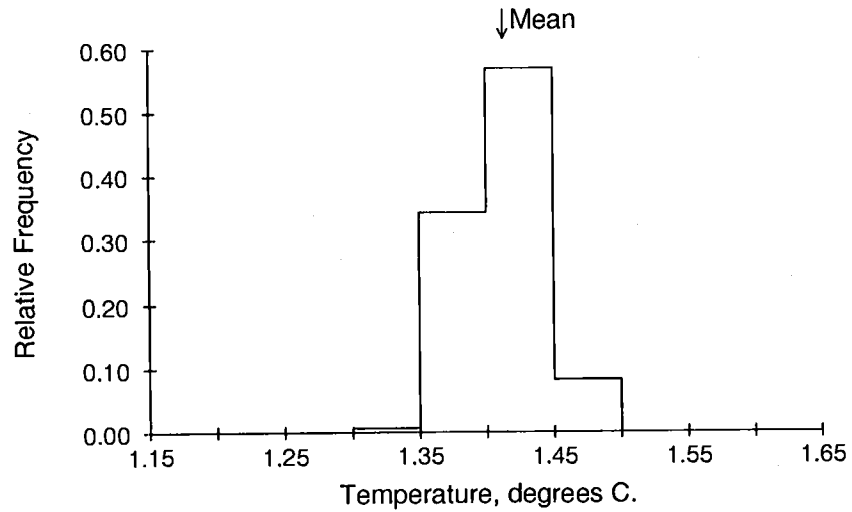
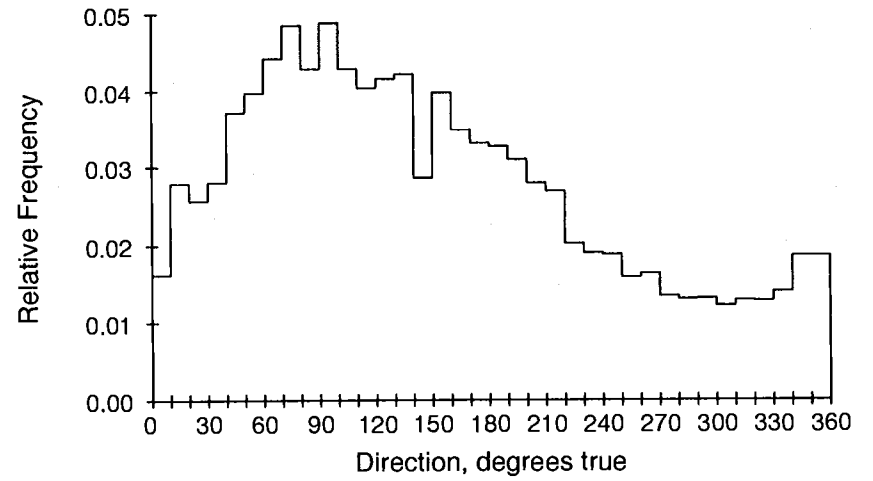
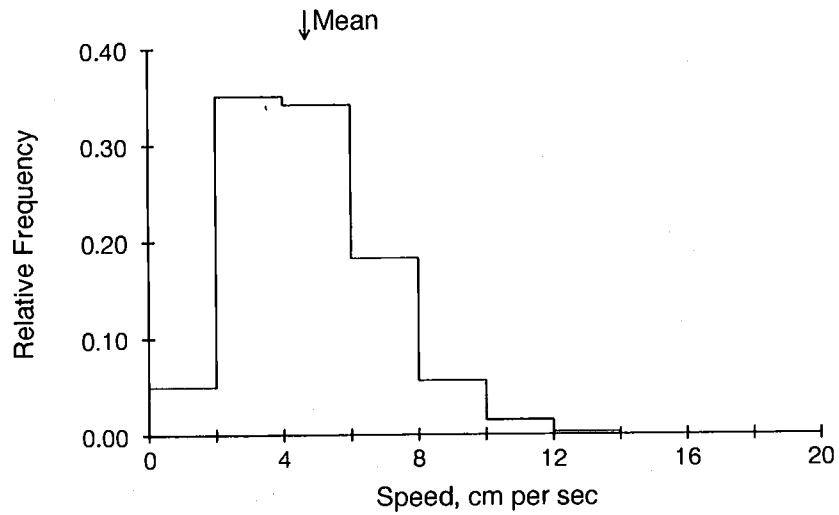


Mooring SAMOA 4. 21 Sep 92 - 25 Feb 94.

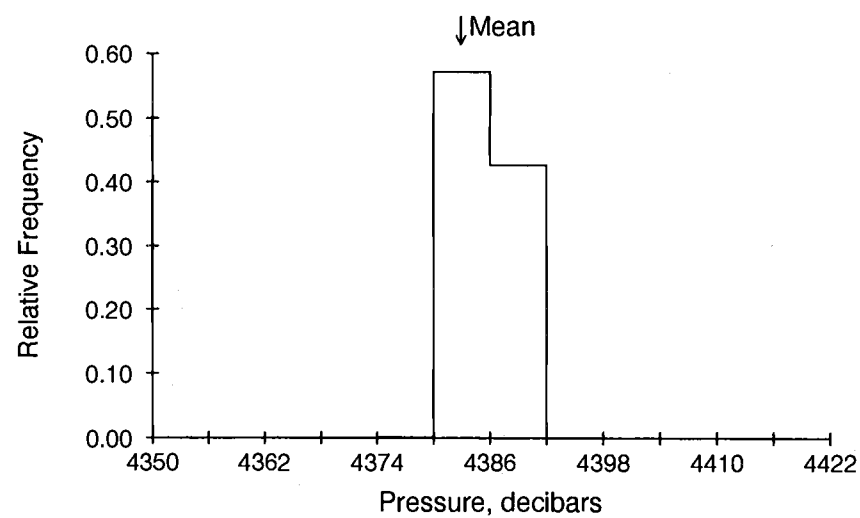
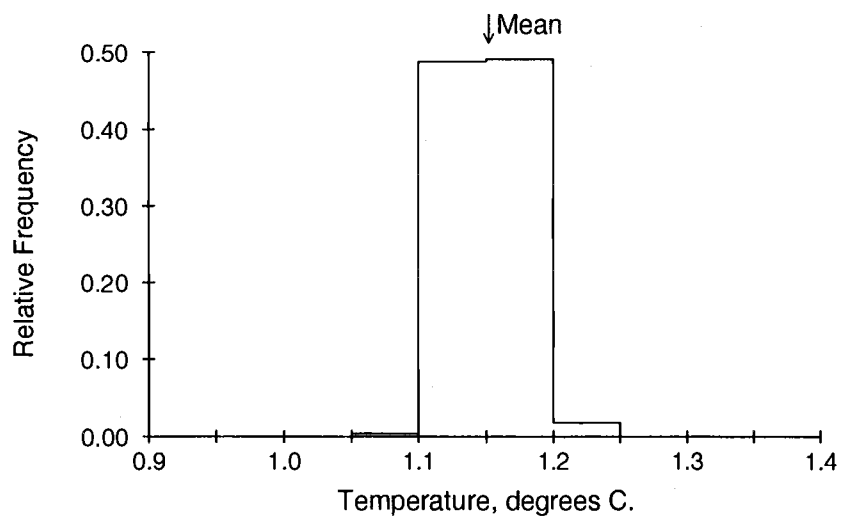
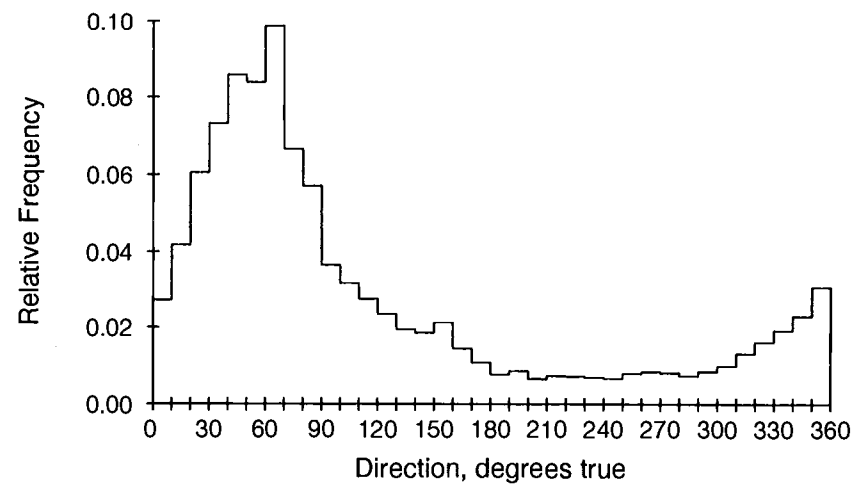
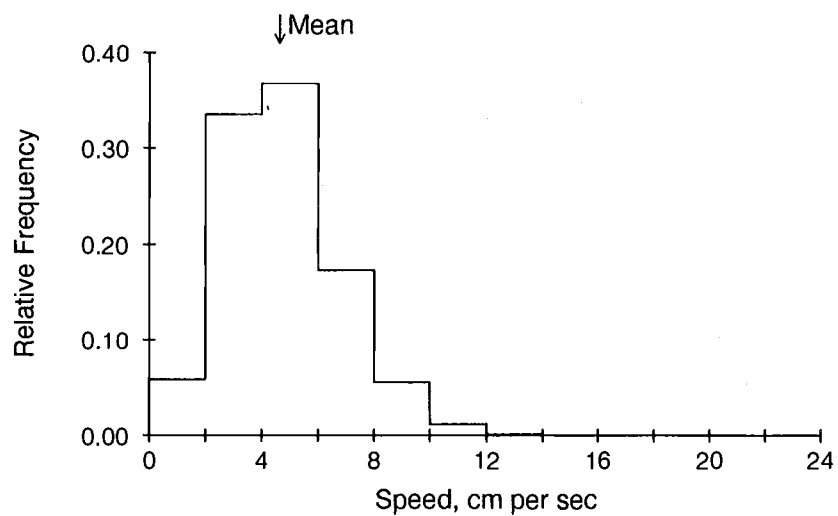
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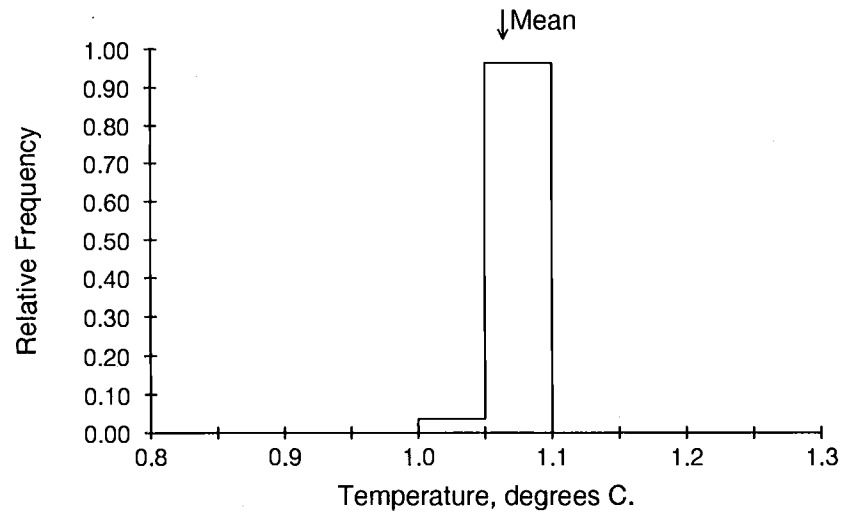
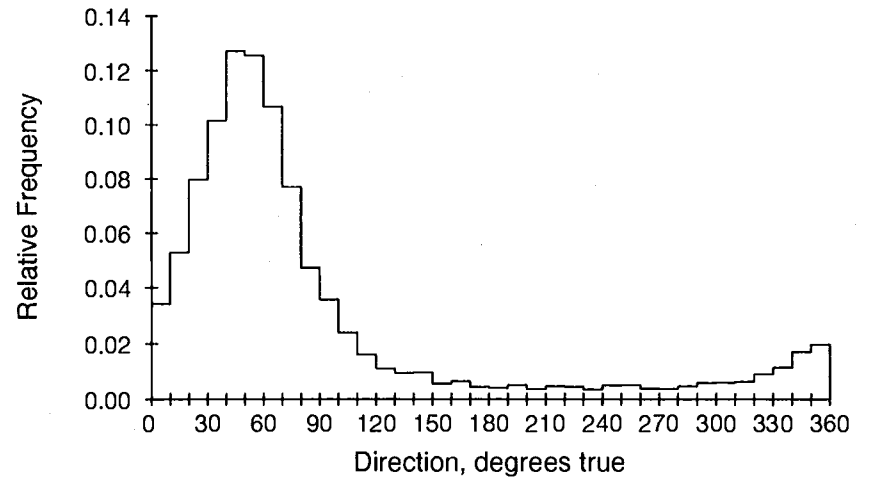
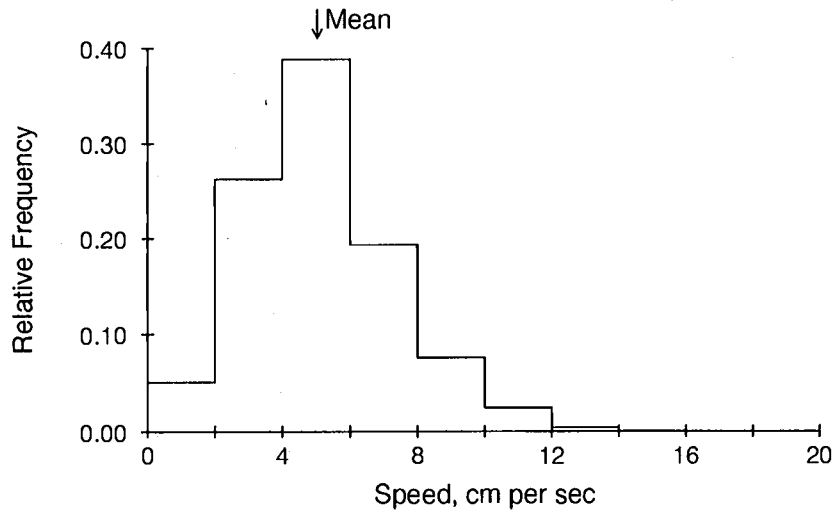
3970m at SAMOA 4. 21 Sep 92 - 25 Sep 94. RCM 6732/25.



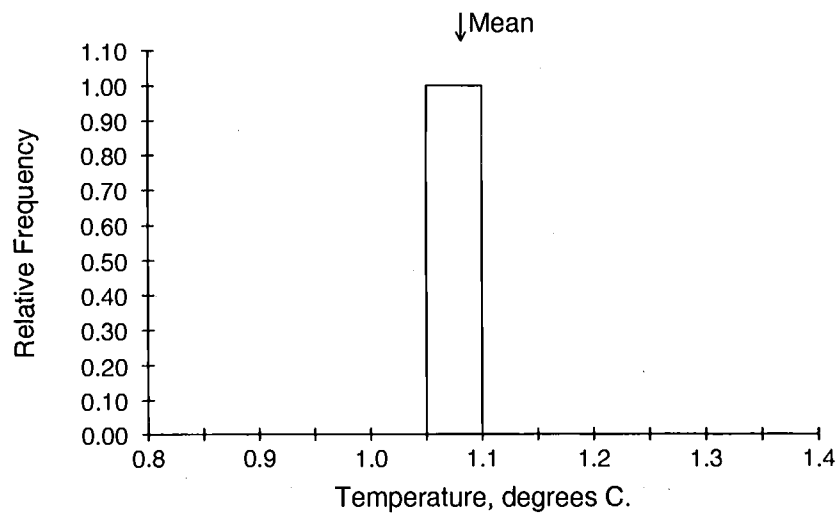
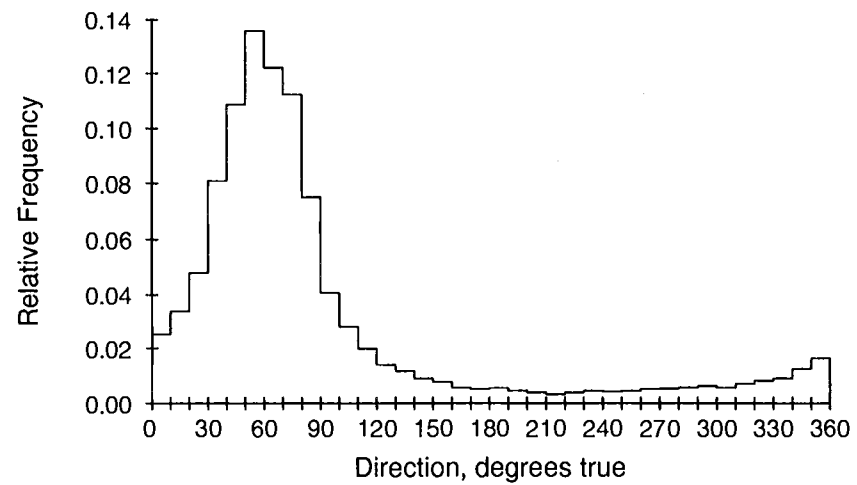
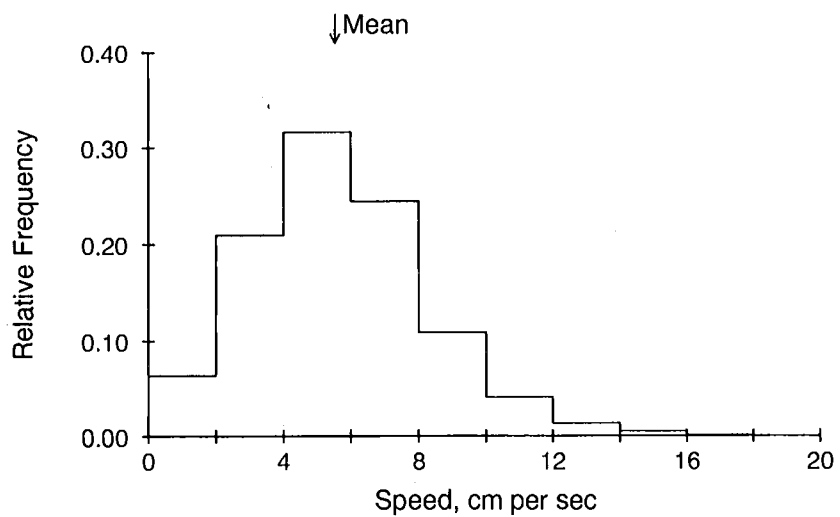
4300m at SAMOA 4. 21 Sep 92 - 25 Sep 94. RCM 7165/30.



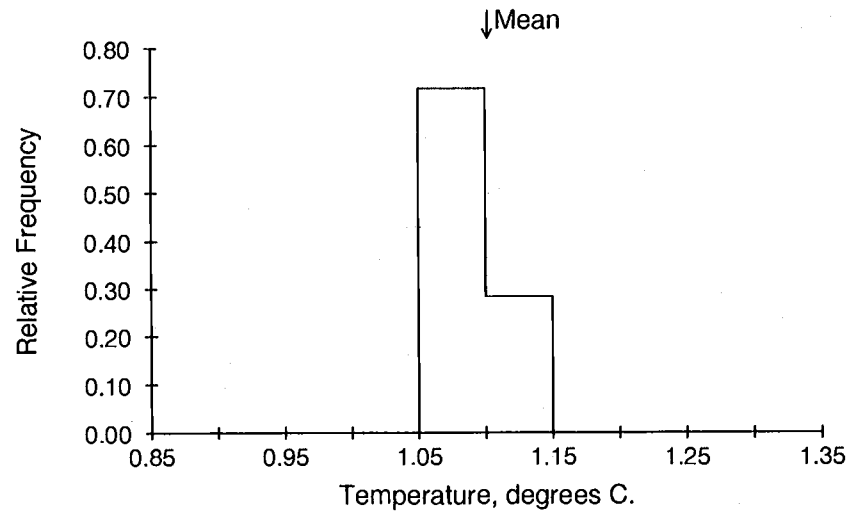
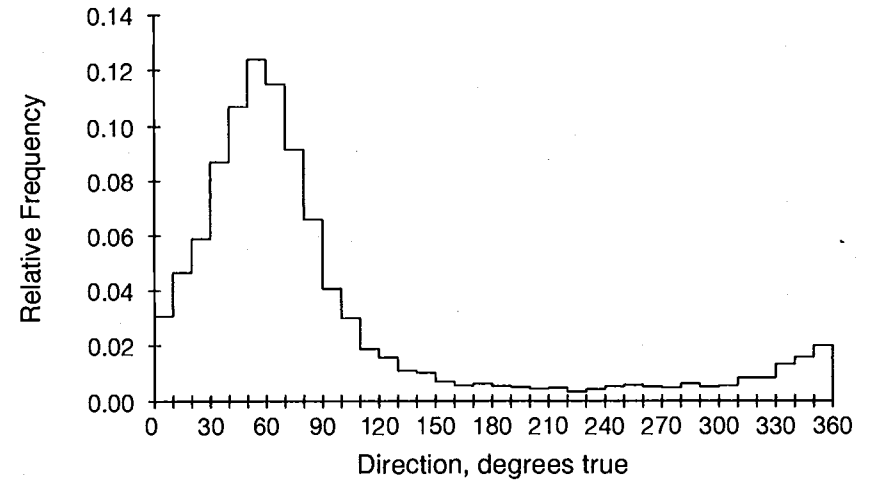
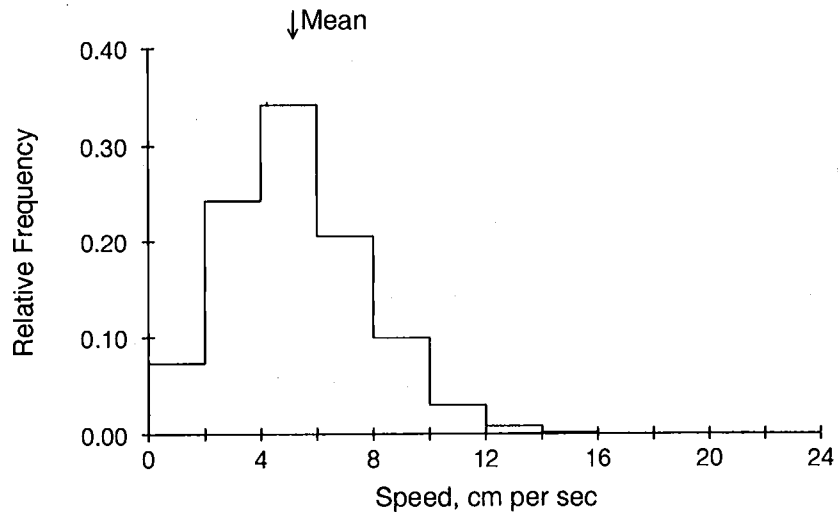
4650m at SAMOA 4. 21 Sep 92 - 25 Sep 94. RCM 7214/28.



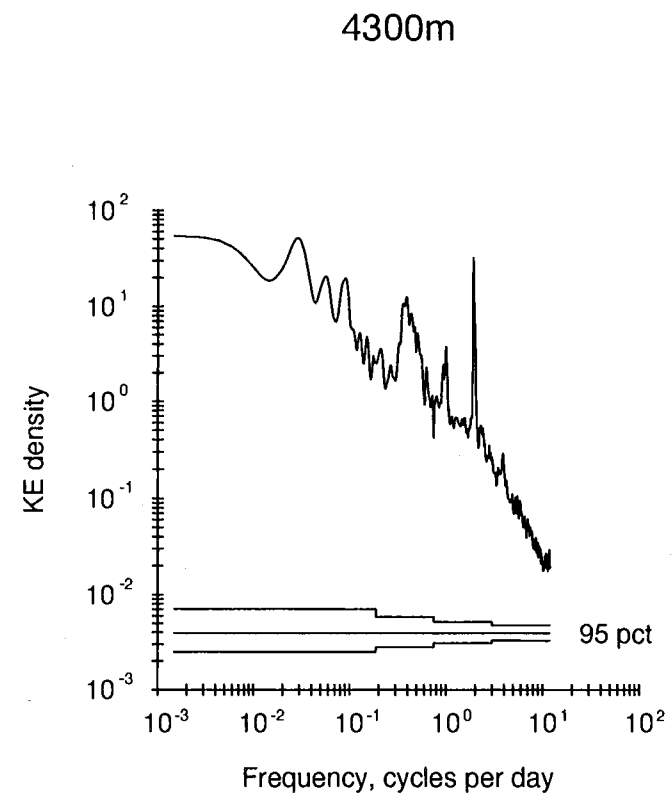
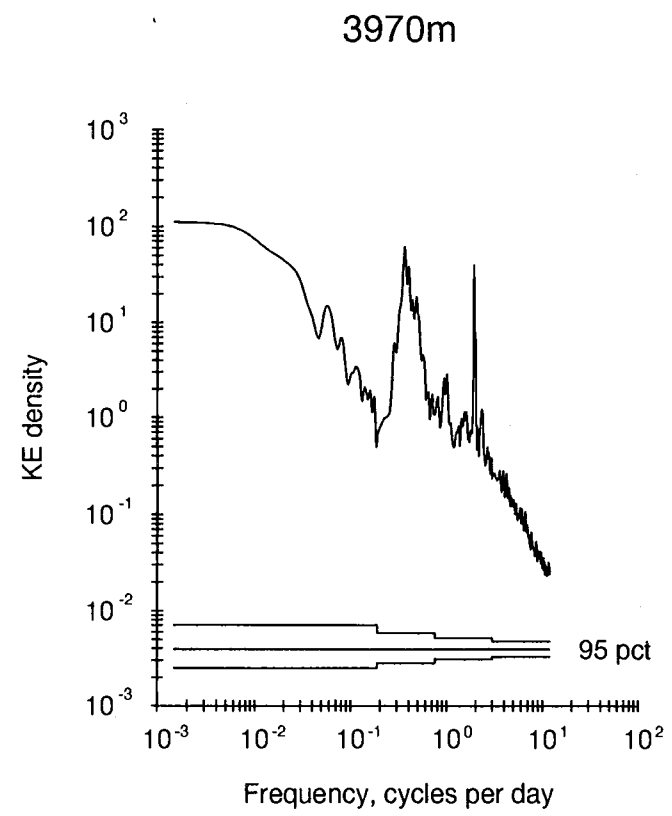
4900m at SAMOA 4. 21 Sep 92 - 25 Sep 94. RCM 7353/31.



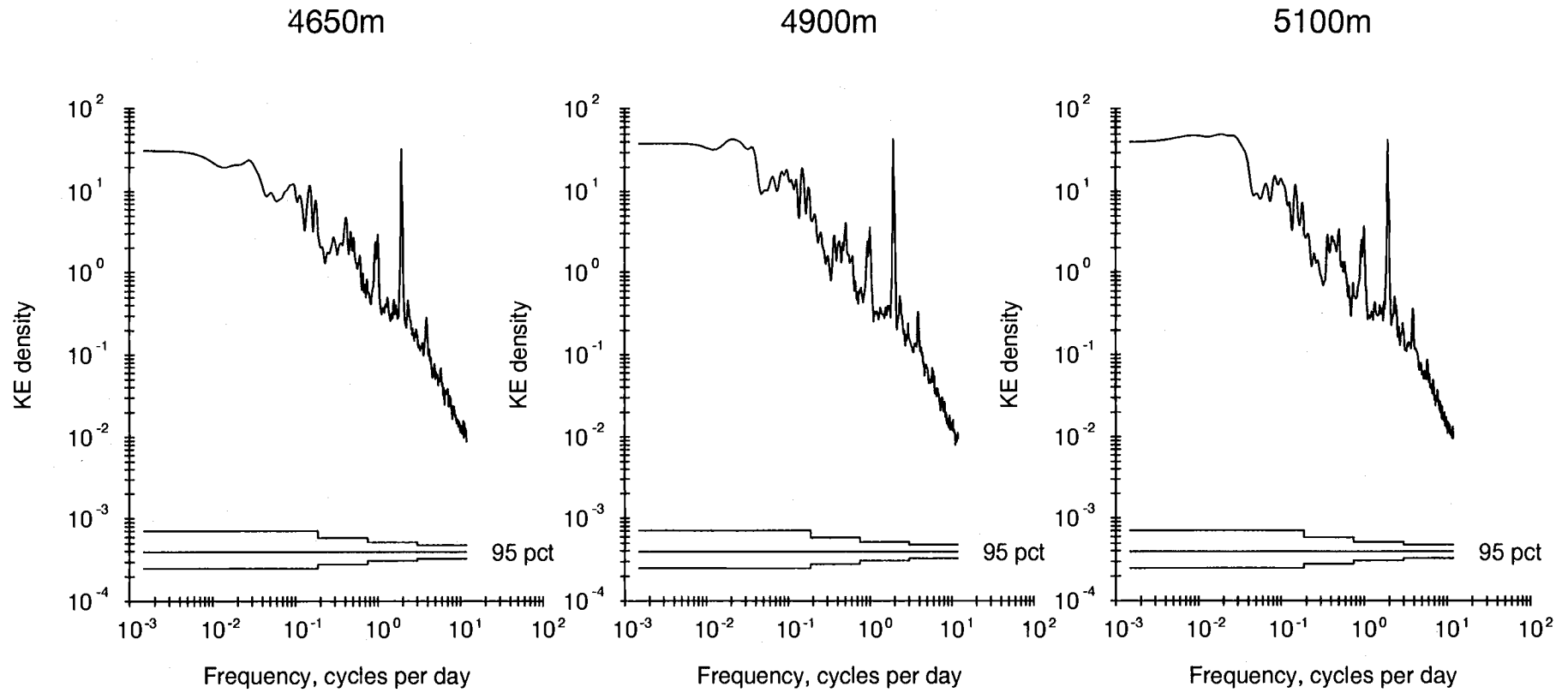
5100m at SAMOA 4. 21 Sep 92 - 25 Sep 94. RCM 10643/5.

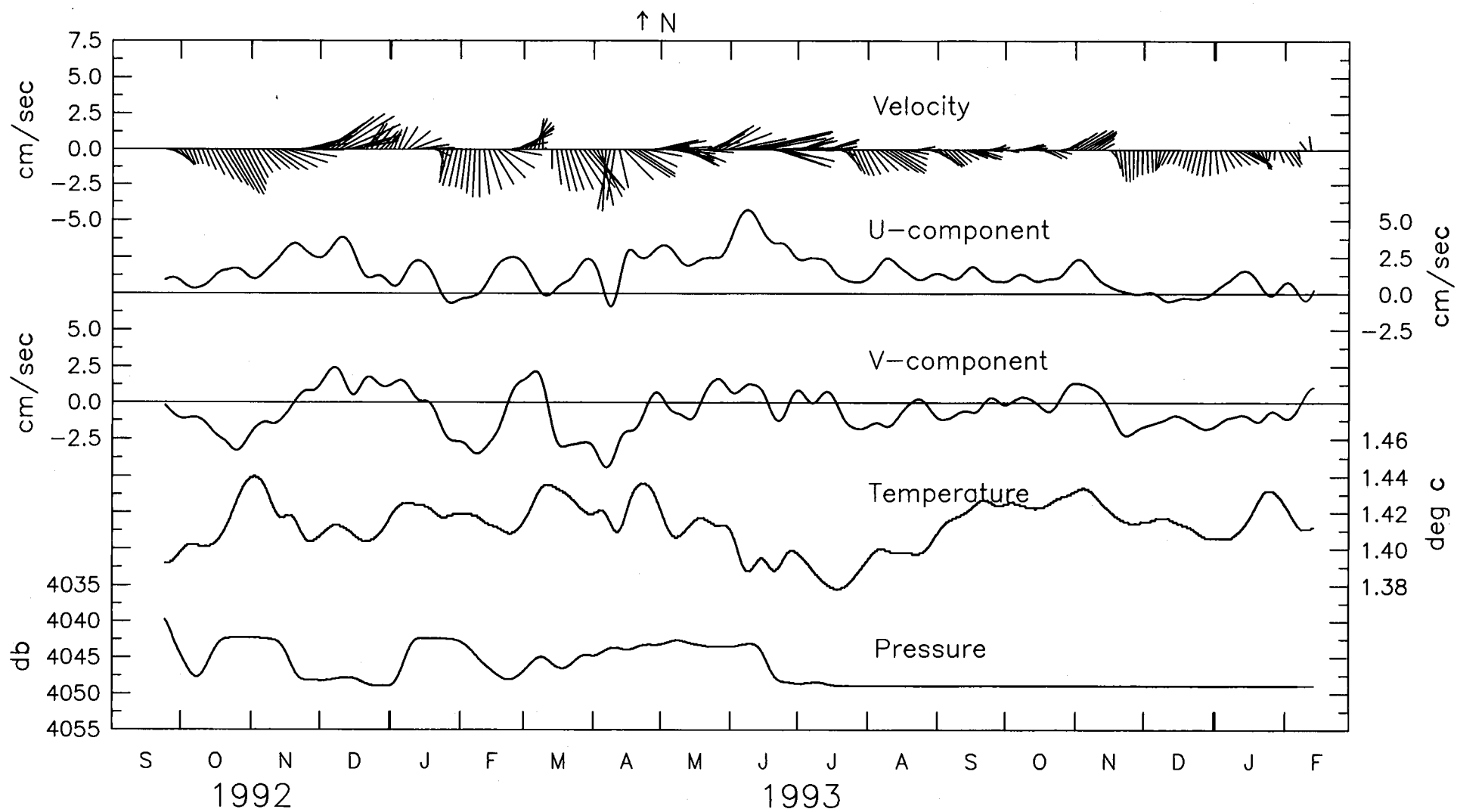


Mooring SAMOA 4. Unfiltered current.



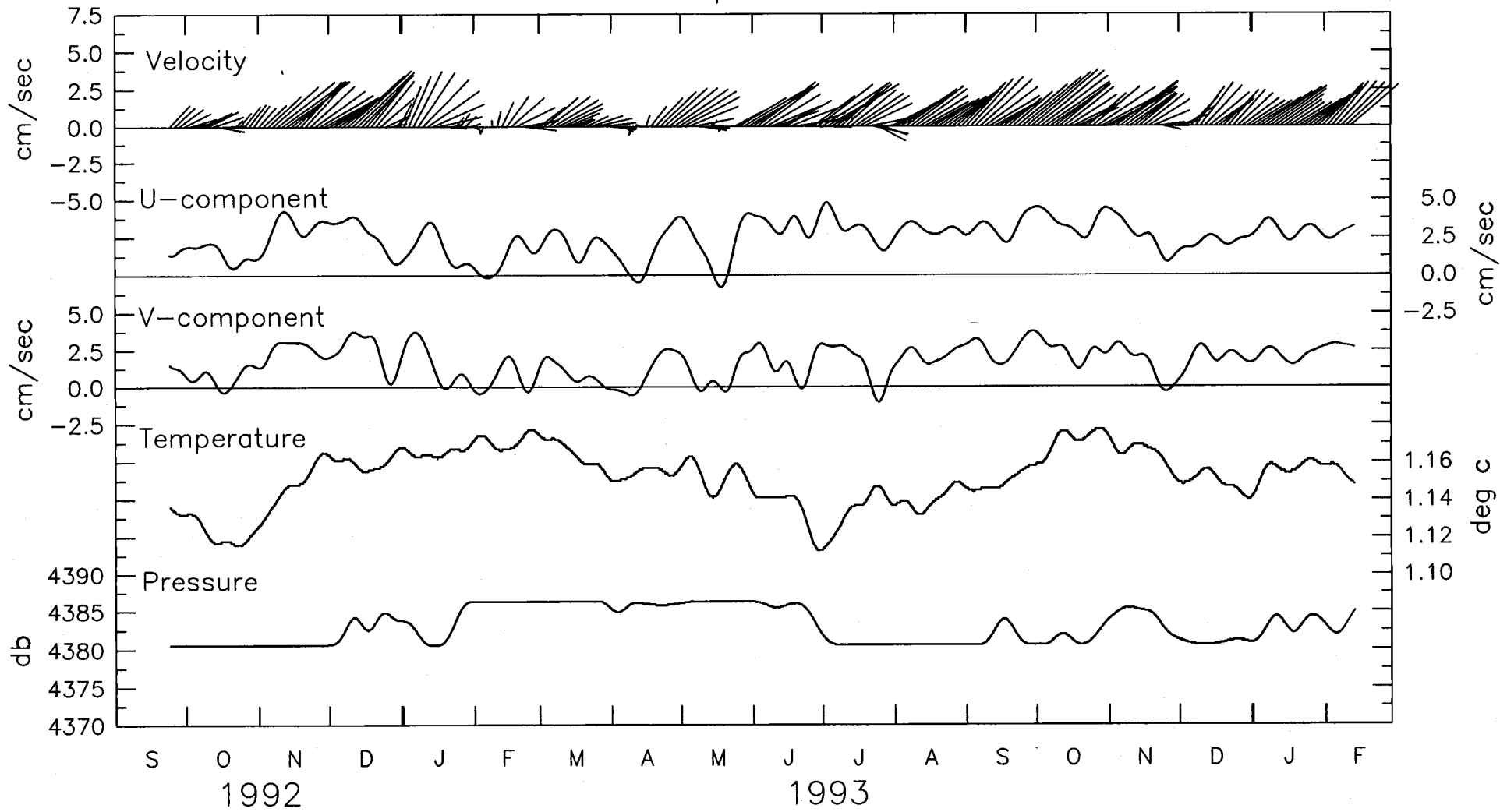
Mooring SAMOA 4. Unfiltered current.



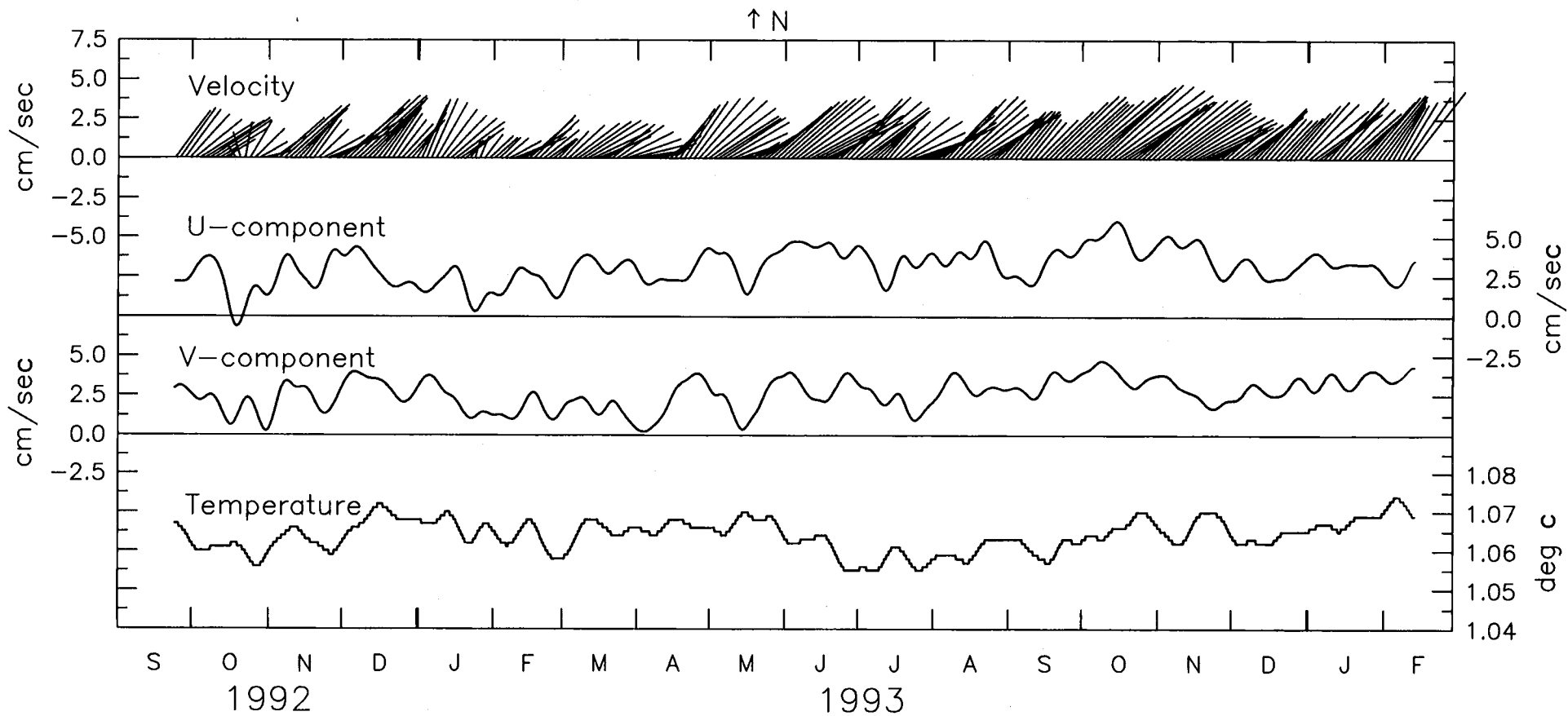


3970m at SAMOA 4. Low-Passed Data.

↑ N

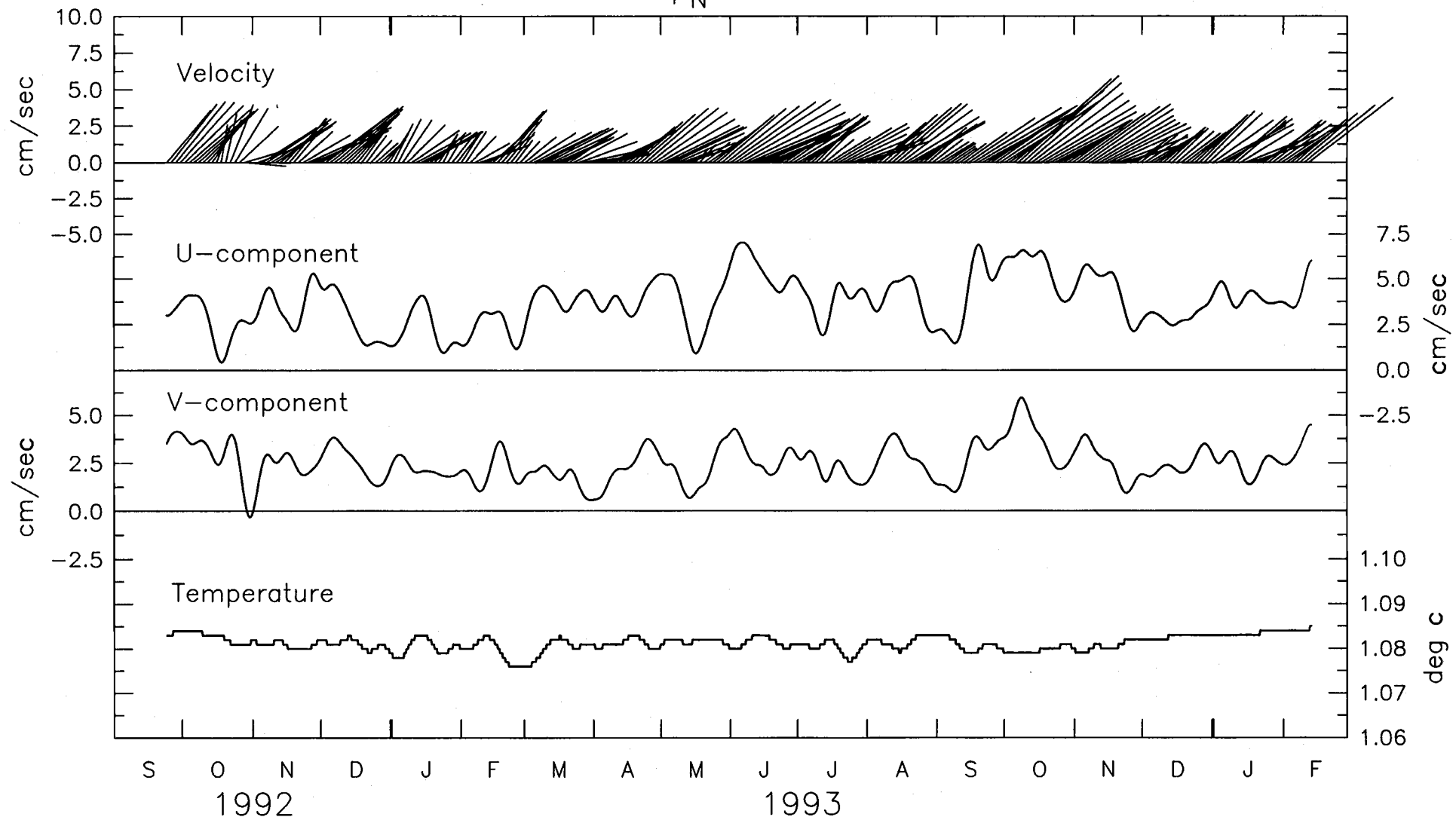


4300m at SAMOA 4. Low-Passed Data.

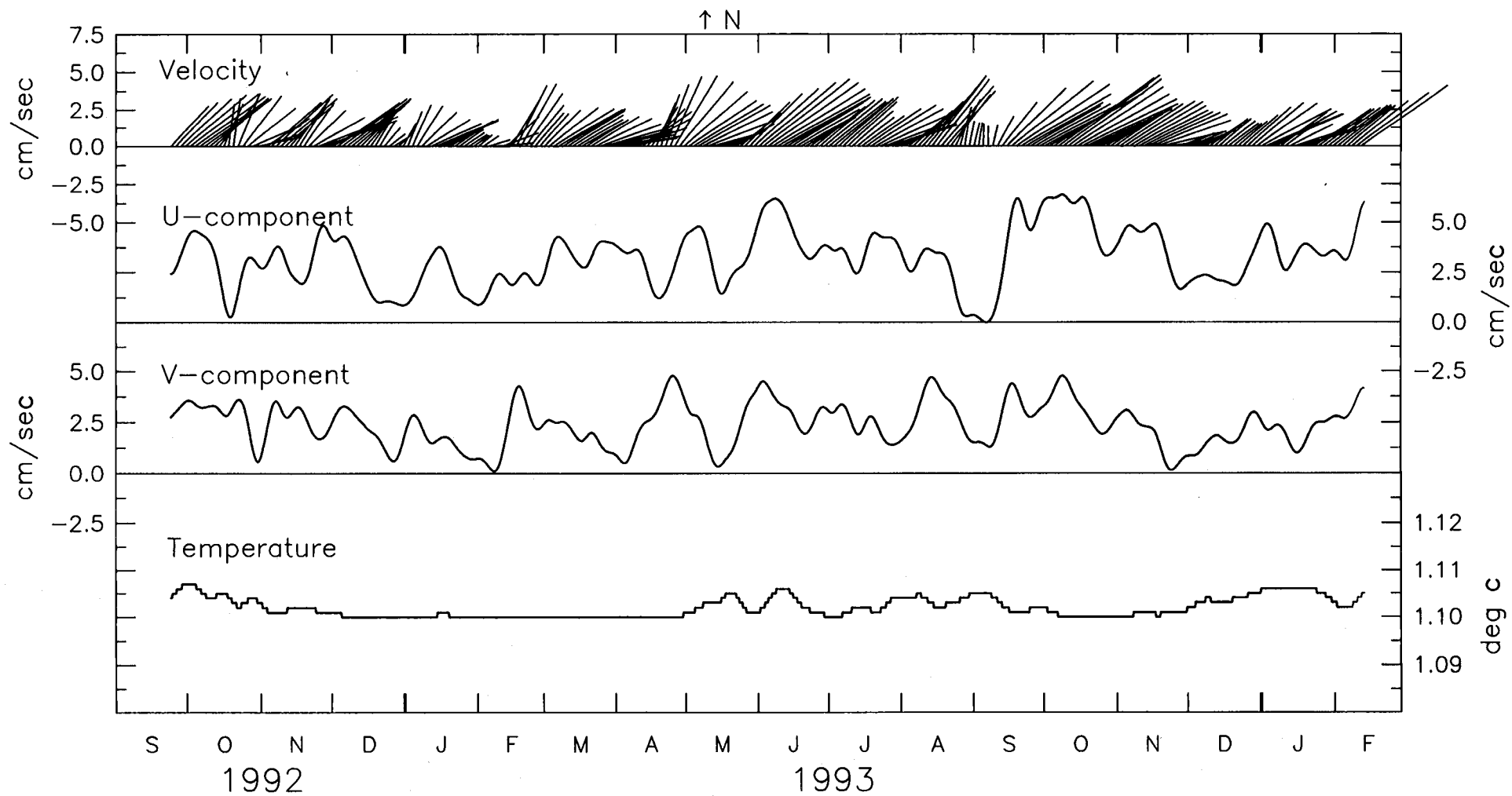


4650m at SAMOA 4. Low-Passed Data.

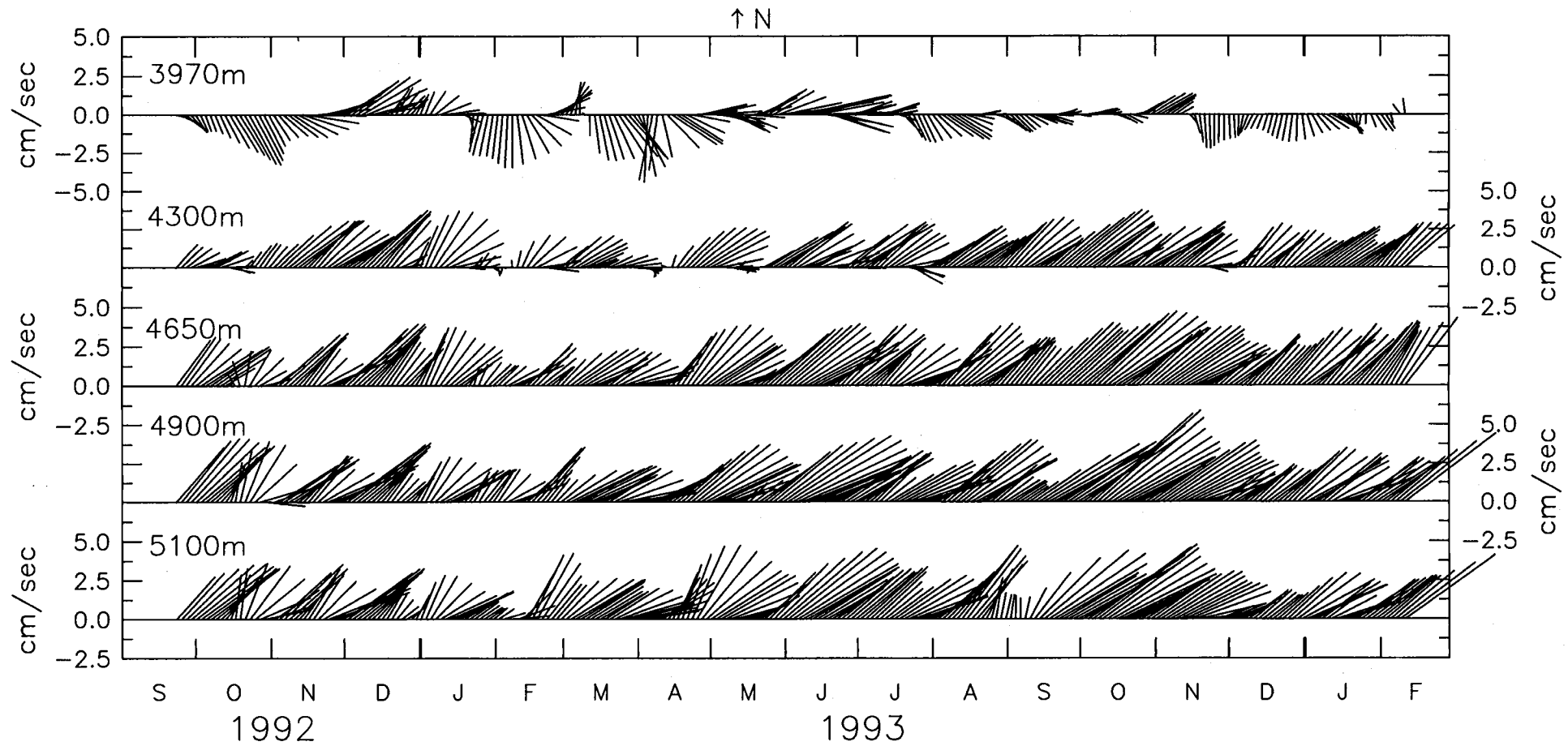
↑ N



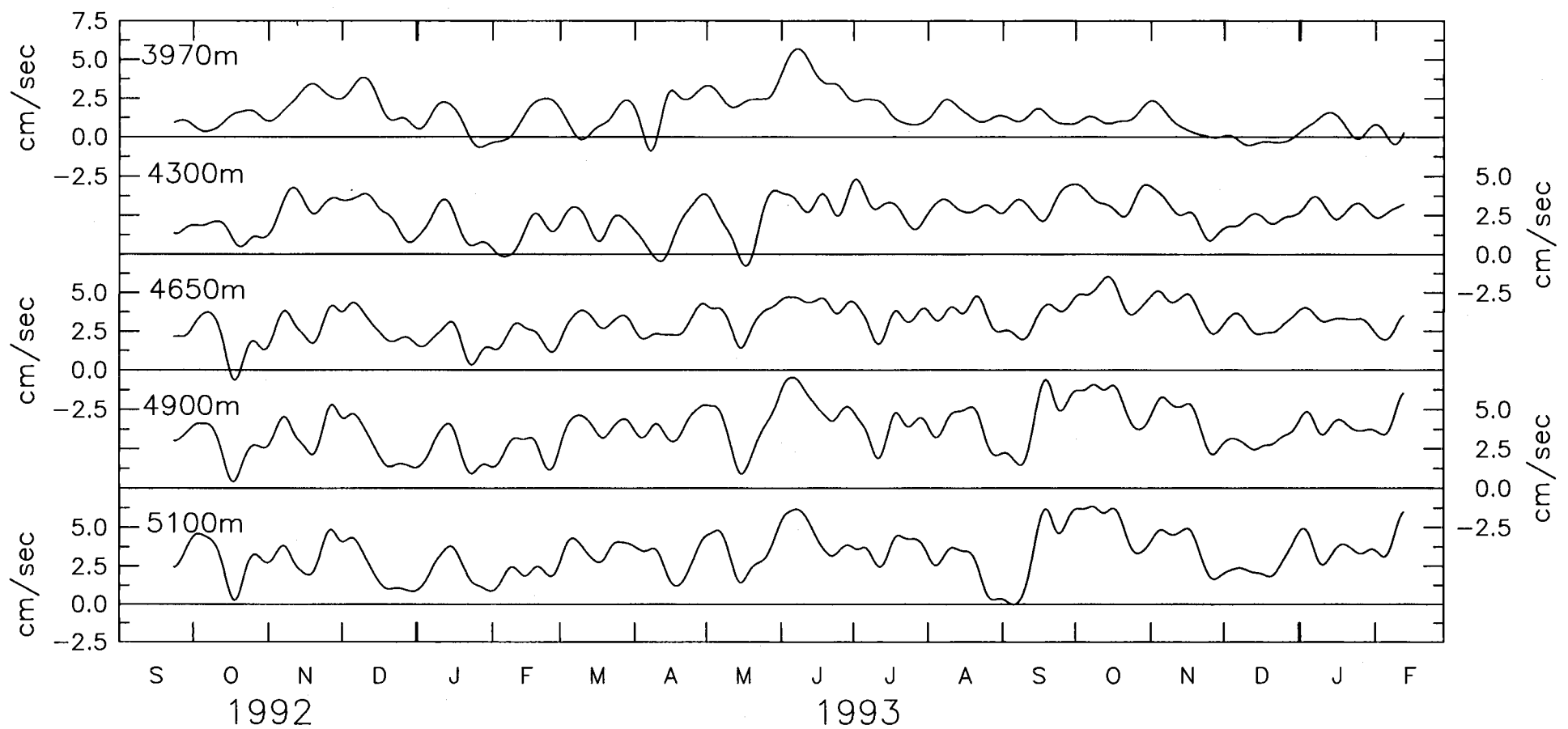
4900m at SAMOA 4. Low-Passed Data.



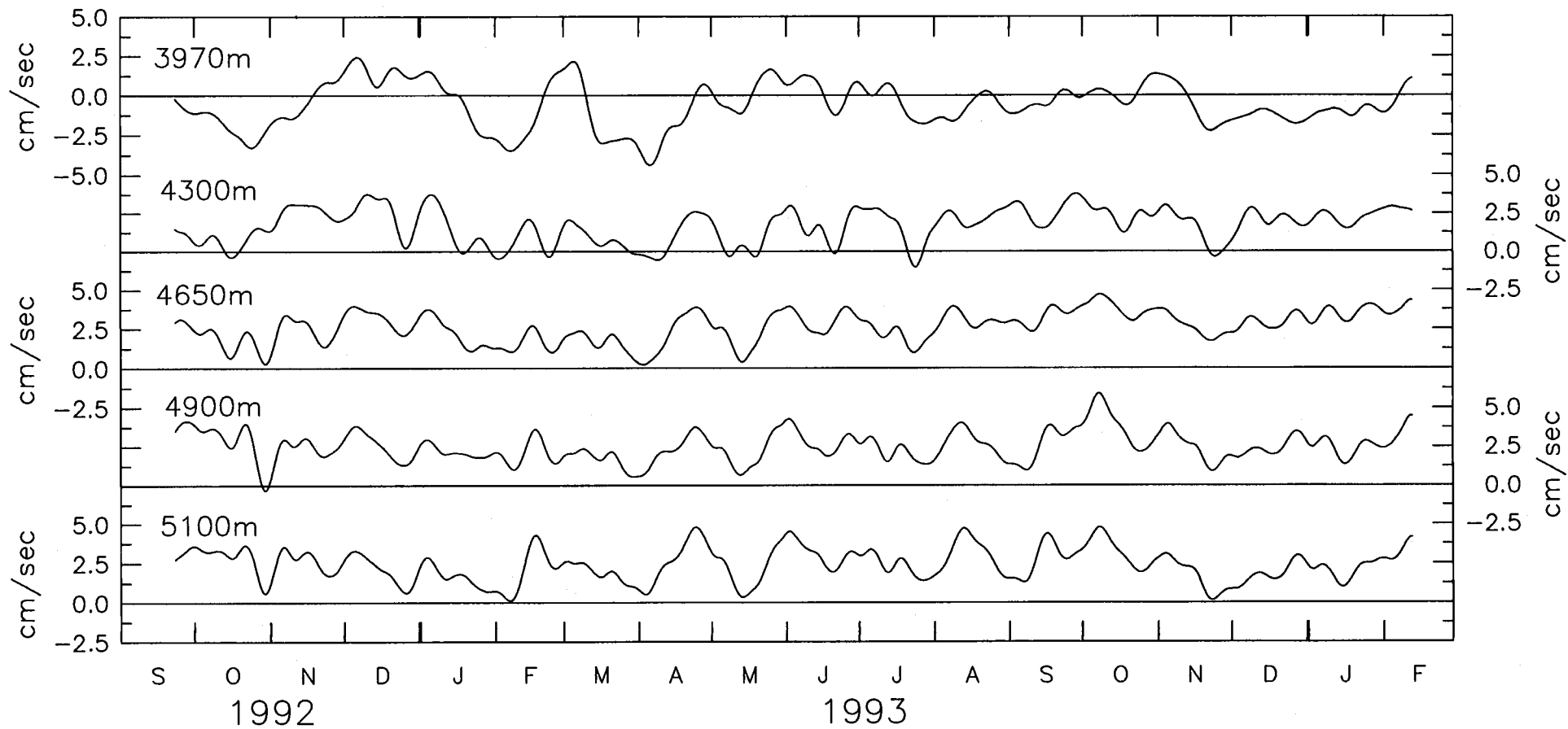
5100m at SAMOA 4. Low-Passed Data.



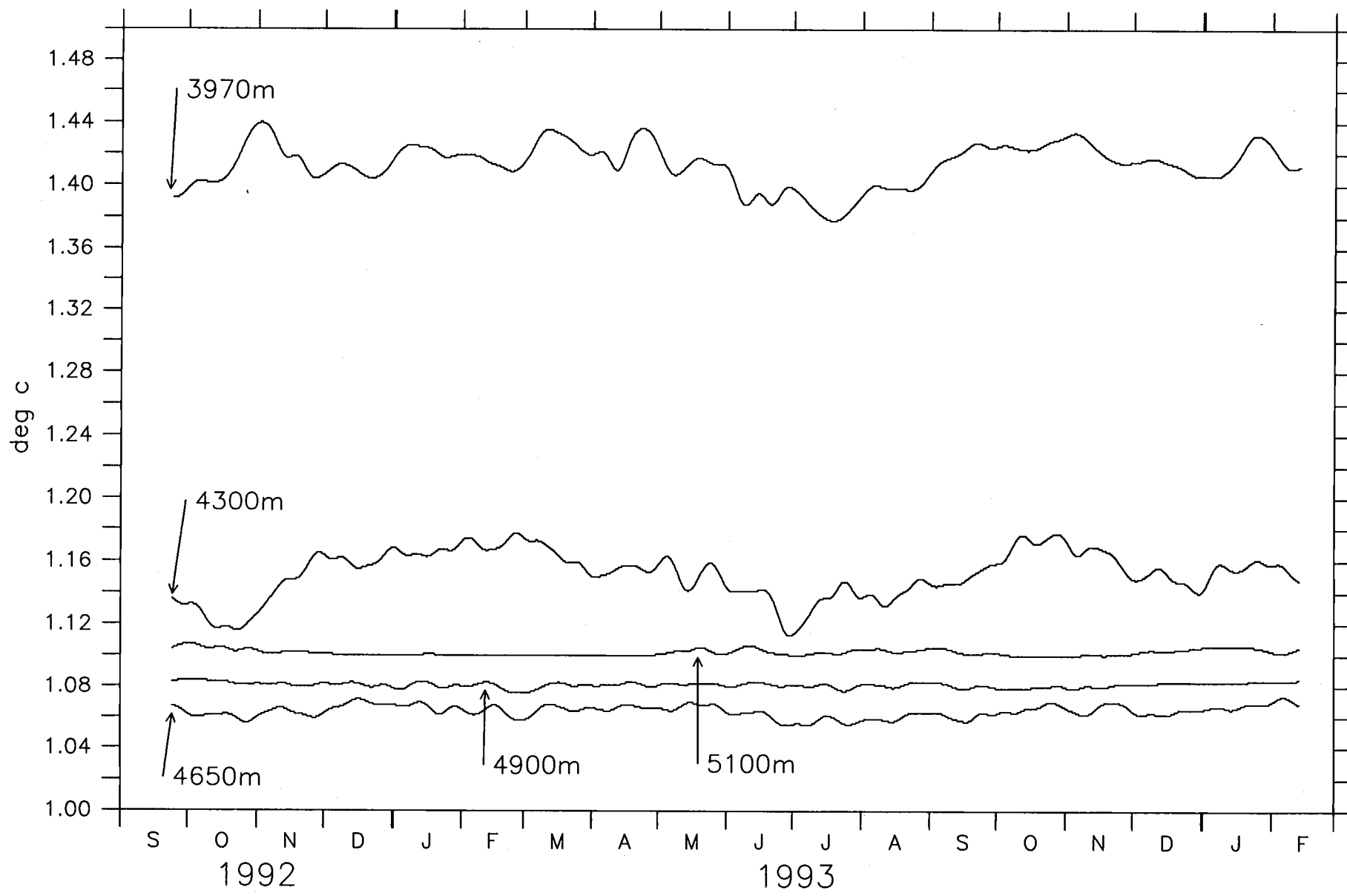
Velocity at SAMOA 4. Low-Passed Data.



U-component at SAMOA 4. Low-Passed Data.



V-component at SAMOA 4. Low-Passed Data.

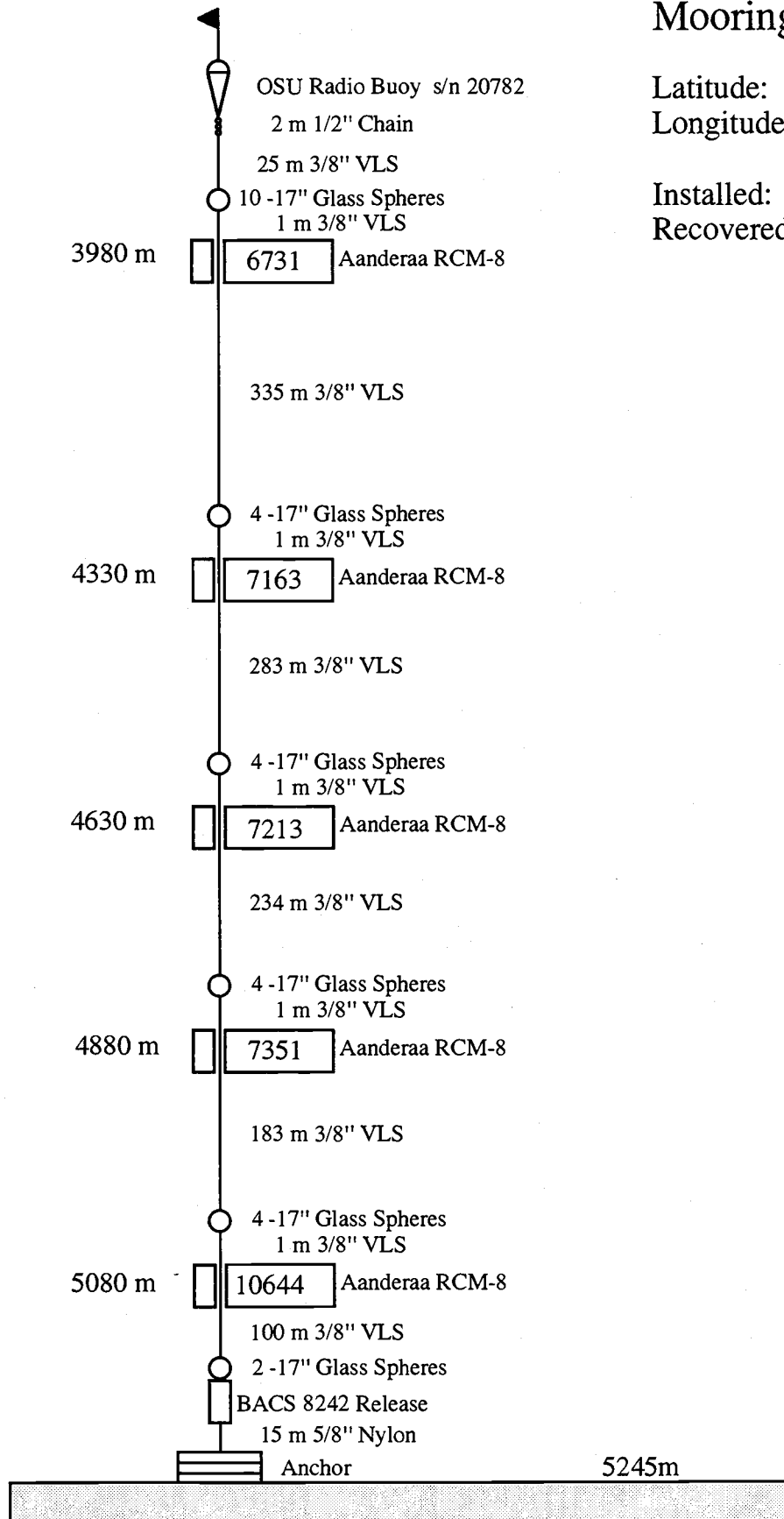


Temperature at SAMOA 4. Low-Passed Data.

Mooring SAMOA 5

Latitude: 10° 05.13' S
 Longitude: 169° 14.72' W

Installed: 1952 20 Sep. '92
 Recovered: 2056 25 Feb. '94



Mooring SAMOA 5.

Position: 10° 05.13' S
 169° 14.72' W
 Depth of Water: 5245m
 Mooring Set: 1952 U.C.T. 20 September 1992
 Mooring Retrieved: 2056 U.C.T. 25 February 1994
 Data Interval: 2200 U.C.T. 20 September 1992 - 2000 25 February 1994

Instrumentation:

Depth m	RCM8 Serial No./Sequence No.
3980m	6731/24
4330m	7163/27
4630m	7213/27
4880m	7351/32
5080m	10644/5

Instrument 6731 recorded speed, direction, temperature, and pressure every 60 minutes until recovery. No corrections were made.

Instrument 7163 recorded speed, direction, temperature and pressure every 60 minutes. No corrections.

Instrument 7213 recorded speed, direction and temperature every 60 minutes. No corrections.

Instrument 7351 recorded speed, direction, and temperature every 60 minutes. No corrections.

Instrument 10644 recorded speed, direction, and temperature every 60 minutes. No corrections.

SAMOA 5.
Statistics, Unfiltered Hourly Data

3980 meters at SAMOA 5. 20 Sep 92 - 25 Feb 94. Tape 6731/24.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.68	14.89	2.07	12551
U, cm/sec	-9.63	0.62	12.59	3.14	12551
V, cm/sec	-13.14	-1.74	9.95	3.59	12551
Temp, deg c	1.31	1.40	1.47	0.02	12551
Pressure, db	4043.51	4050.57	4055.79	2.20	12551

4330 meters at SAMOA 5. 20 Sep 92 - 25 Feb 94. Tape 7163/27.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.67	14.31	1.96	12551
U, cm/sec	-8.58	1.77	11.94	3.04	12551
V, cm/sec	-9.44	1.83	12.72	3.16	12551
Temp, deg c	1.07	1.16	1.26	0.03	12551
Pressure, db	4401.10	4406.95	4412.79	0.17	12551

4630 meters at SAMOA 5. 20 Sep 92 - 25 Feb 94. Tape 7213/27.

	min	mean	max	sd	num
Speed, cm/sec	0.93	3.70	10.30	1.72	12551
U, cm/sec	-7.35	1.80	8.98	2.40	12551
V, cm/sec	-8.15	1.19	8.58	2.50	12551
Temp, deg c	1.03	1.05	1.07	0.01	12551

4880 meters at SAMOA 5. 20 Sep 92 - 25 Feb 94. Tape 7351/32.

	min	mean	max	sd	num
Speed, cm/sec	0.93	3.95	12.30	1.80	12551
U, cm/sec	-6.79	1.95	9.73	2.44	12551
V, cm/sec	-8.64	1.19	11.15	2.77	12551
Temp, deg c	1.06	1.07	1.09	0.00	12551

5080 meters at SAMOA 5. 20 Sep 92 - 25 Feb 94. Tape 10644/5.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.49	15.75	2.02	12551
U, cm/sec	-6.85	1.78	11.02	2.50	12551
V, cm/sec	-8.15	2.05	14.86	3.26	12551
Temp, deg c	1.09	1.10	1.10	0.00	12551

SAMOA 5.
Statistics, Low-Passed Data

3980 meters at SAMOA 5. 28 Sep 92 - 18 Feb 94. Tape 6731/24.

	min	mean	max	sd	num
Speed, cm/sec	0.07	2.82	7.37	1.81	2032
U, cm/sec	-2.21	0.60	4.32	1.25	2032
V, cm/sec	-7.33	-1.81	2.86	2.46	2032
Temp, deg c	1.36	1.40	1.43	0.02	2032
Pressure, db	4049.65	4050.60	4053.11	0.82	2032

4330 meters at SAMOA 5. 28 Sep 92 - 18 Feb 94. Tape 7163/27.

Speed, cm/sec	0.08	2.77	6.01	1.18	2032
U, cm/sec	-0.15	1.78	3.69	0.71	2032
V, cm/sec	-1.18	1.78	5.75	1.48	2032
Temp, deg c	1.12	1.16	1.21	0.02	2032
Pressure, db	4406.95	4406.95	4407.20	0.02	2032

4630 meters at SAMOA 5. 28 Sep 92 - 18 Feb 94. Tape 7213/27.

Speed, cm/sec	0.38	2.54	4.41	0.94	2032
U, cm/sec	-2.44	1.80	3.46	1.00	2032
V, cm/sec	-3.03	1.16	3.59	1.33	2032
Temp, deg c	1.04	1.05	1.06	0.00	2032

4880 meters at SAMOA 5. 28 Sep 92 - 18 Feb 94. Tape 7351/32.

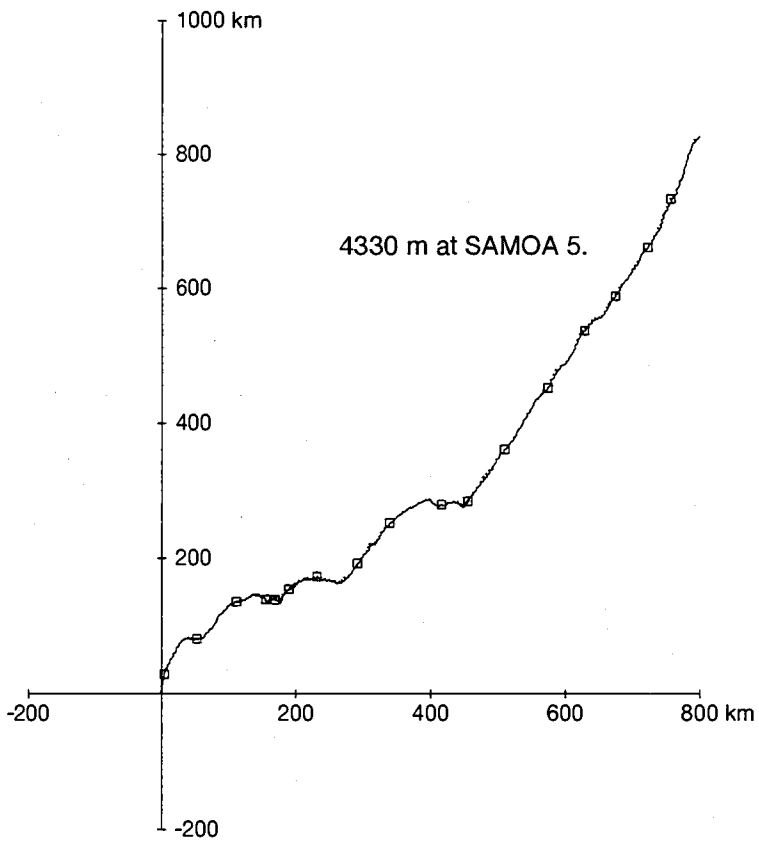
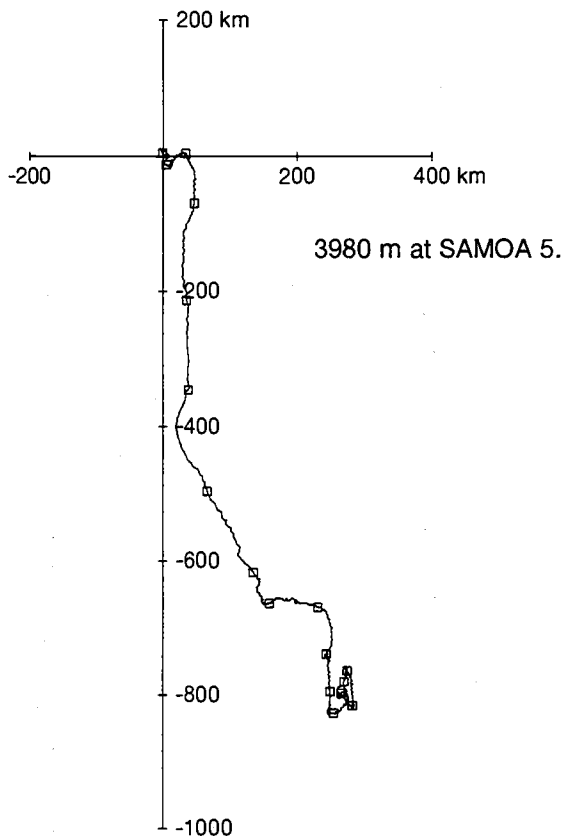
Speed, cm/sec	0.54	2.70	5.79	1.12	2032
U, cm/sec	-3.59	1.94	3.39	1.06	2032
V, cm/sec	-3.39	1.13	5.04	1.54	2032
Temp, deg c	1.07	1.07	1.08	0.00	2032

5080 meters at SAMOA 5. 28 Sep 92 - 18 Feb 94. Tape 10644/5.

Speed, cm/sec	0.54	3.22	7.30	1.63	2032
U, cm/sec	-2.95	1.74	4.57	1.04	2032
V, cm/sec	-3.54	2.01	6.53	2.21	2032
Temp, deg c	1.10	1.10	1.10	0.00	2032

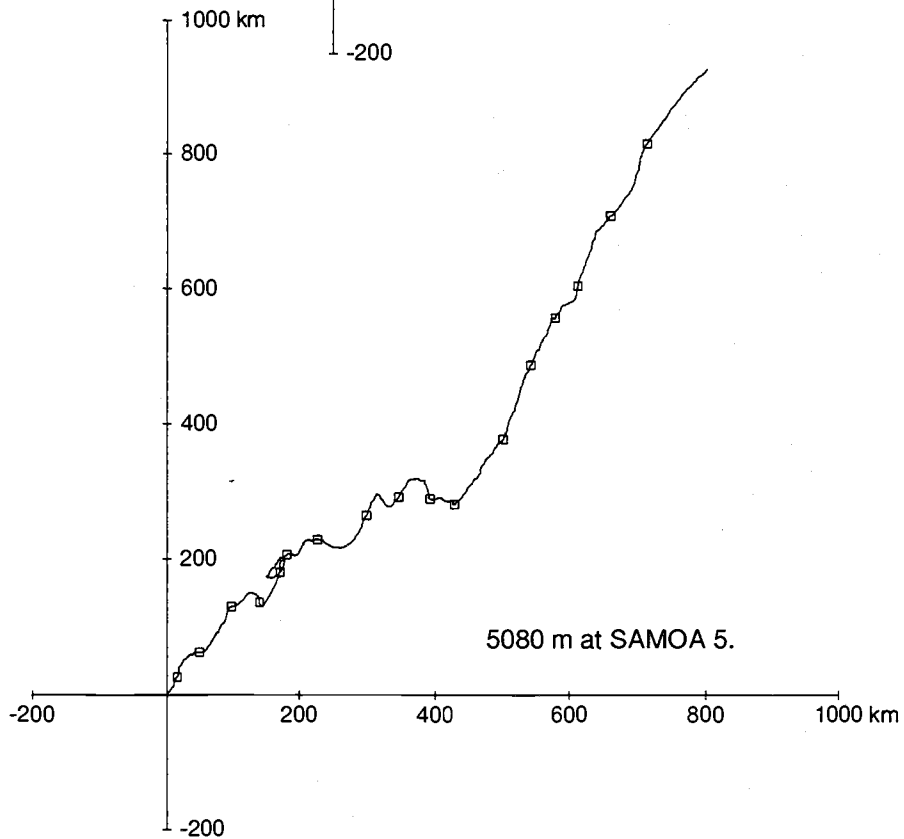
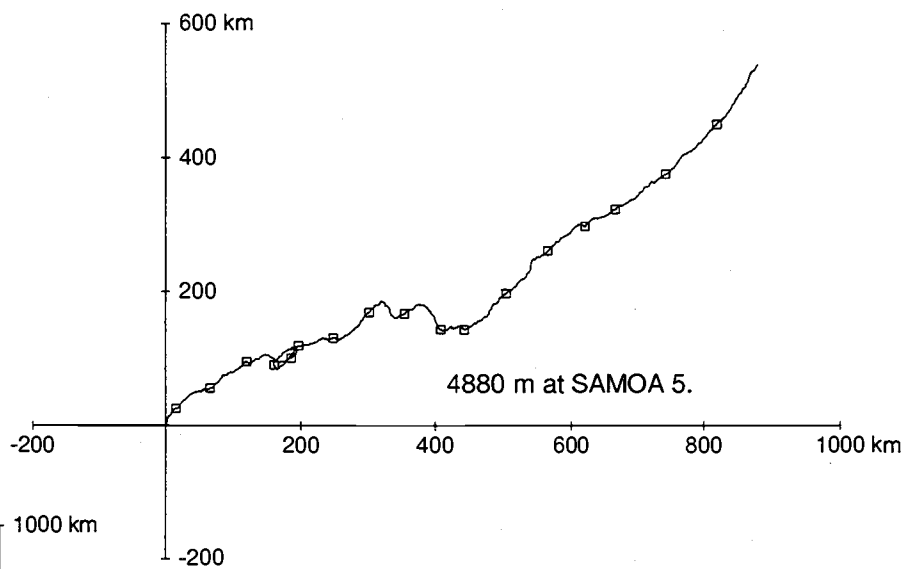
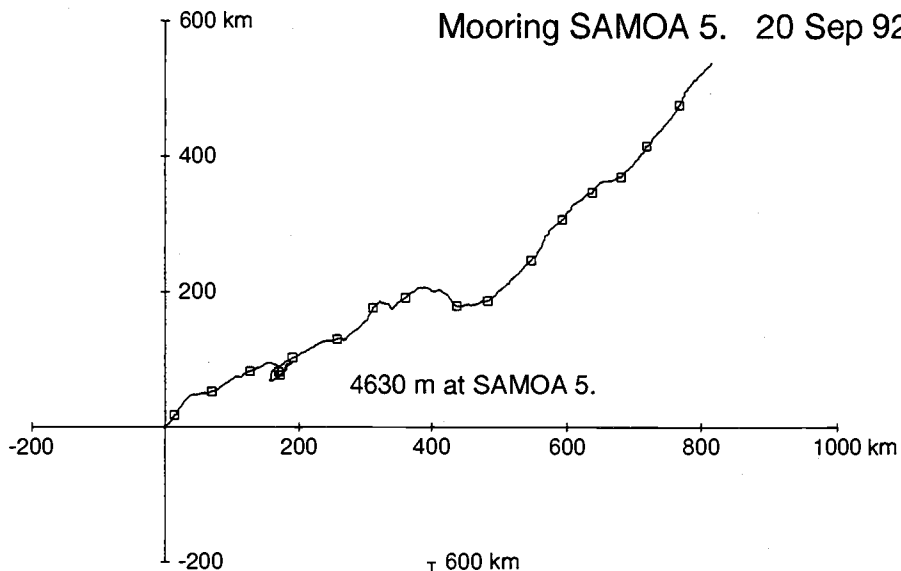
Mooring SAMOA 5. 20 Sep 92 - 25 Feb 94.

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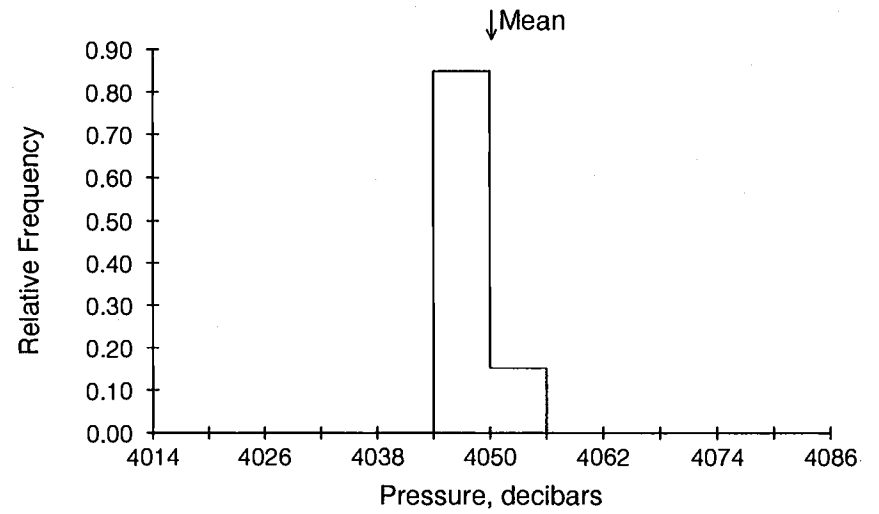
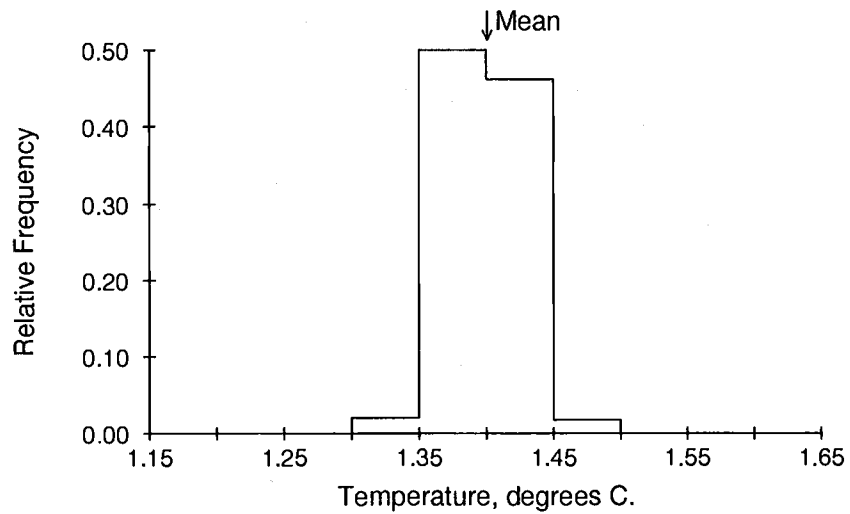
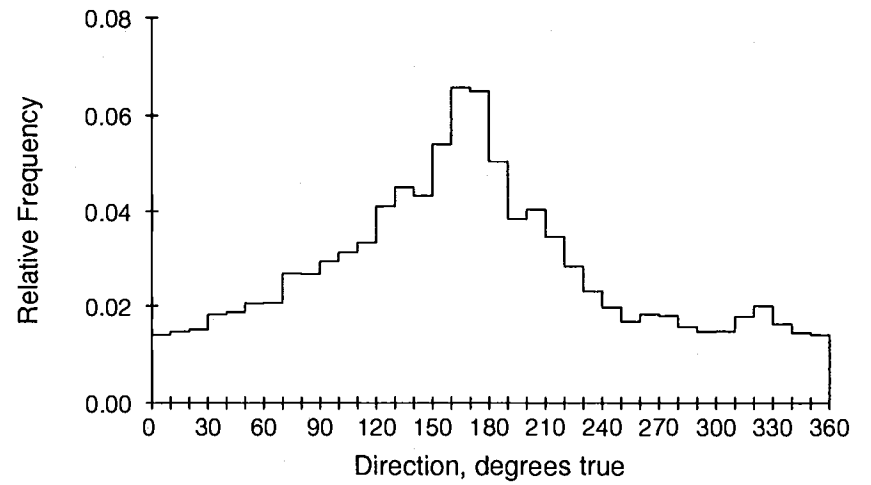
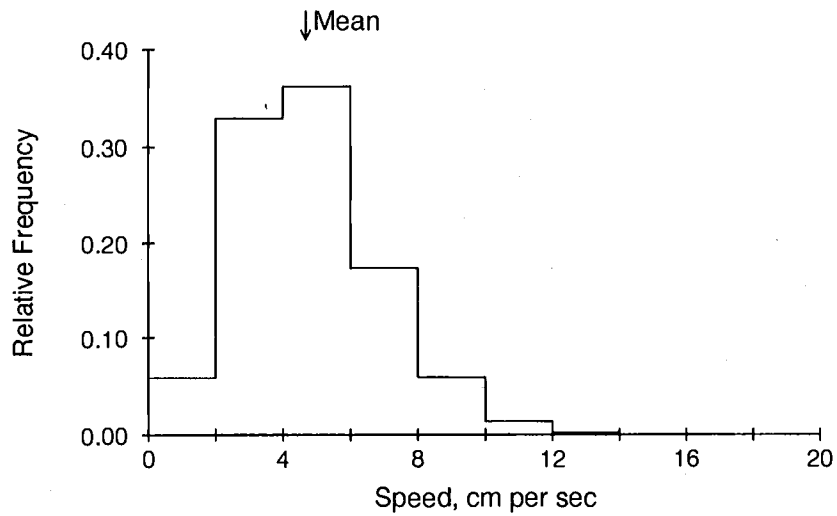


Mooring SAMOA 5. 20 Sep 92 - 25 Feb 94.

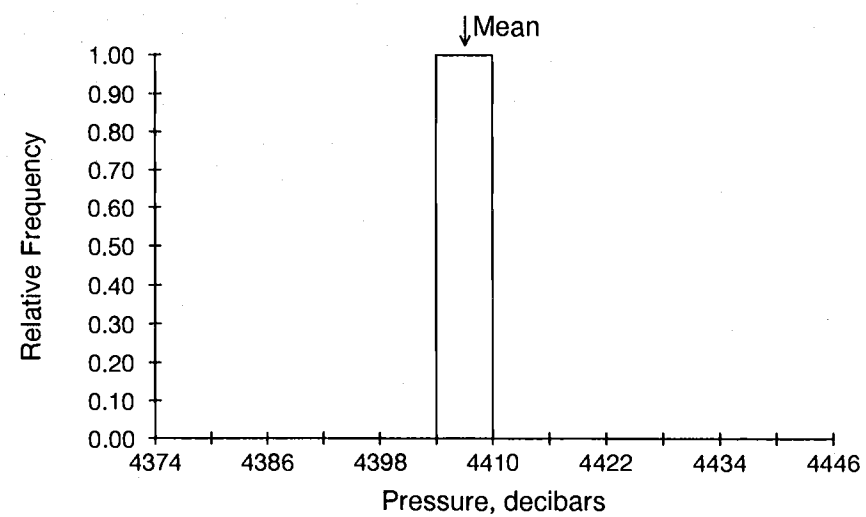
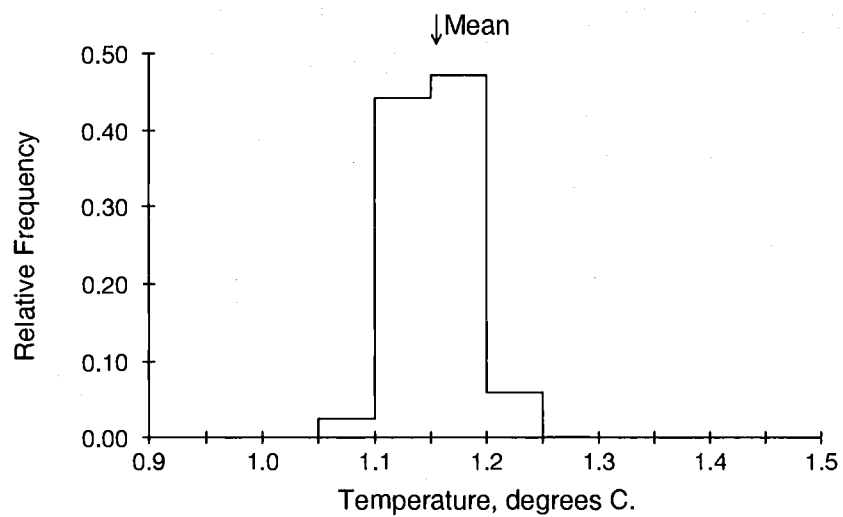
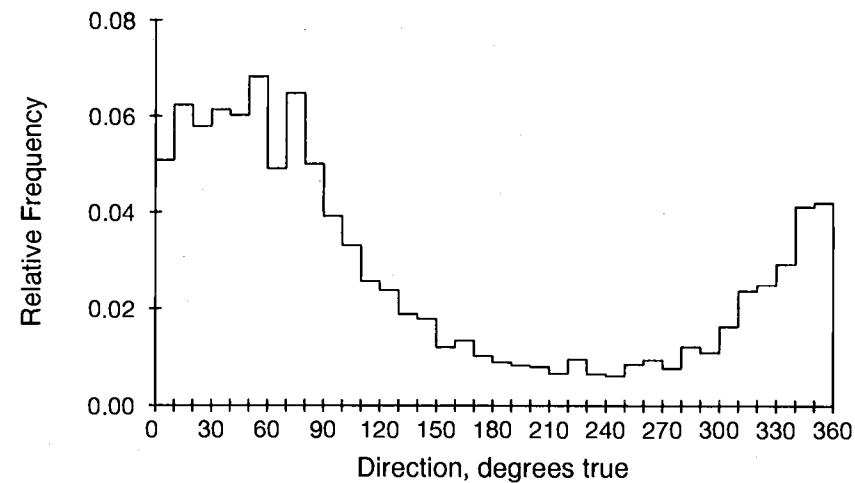
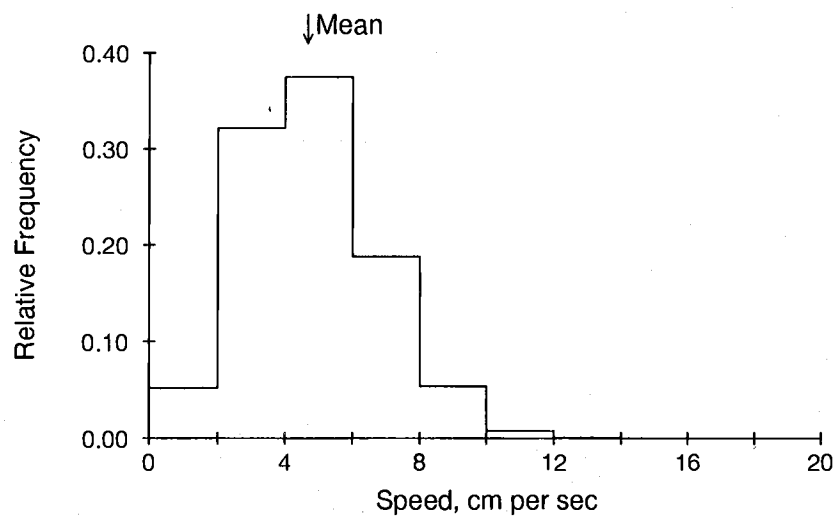
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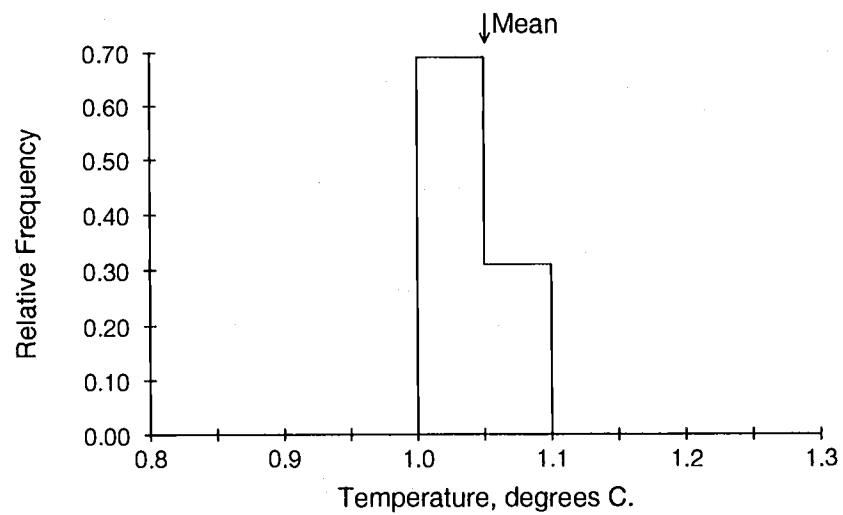
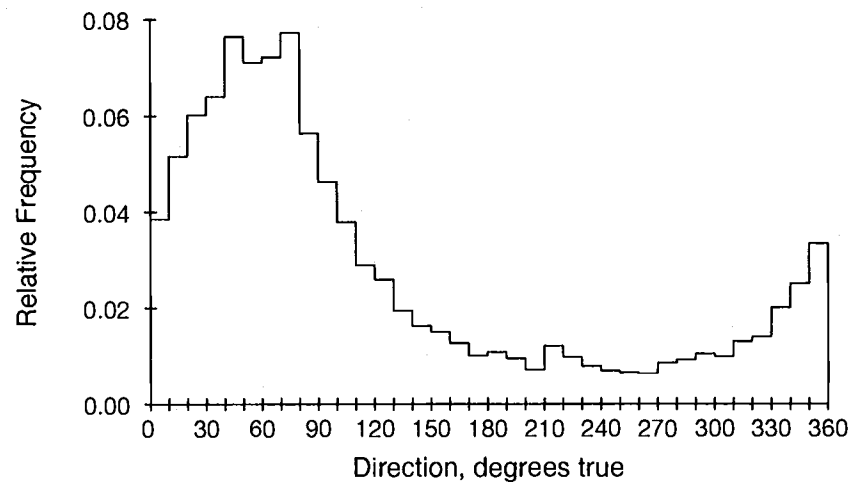
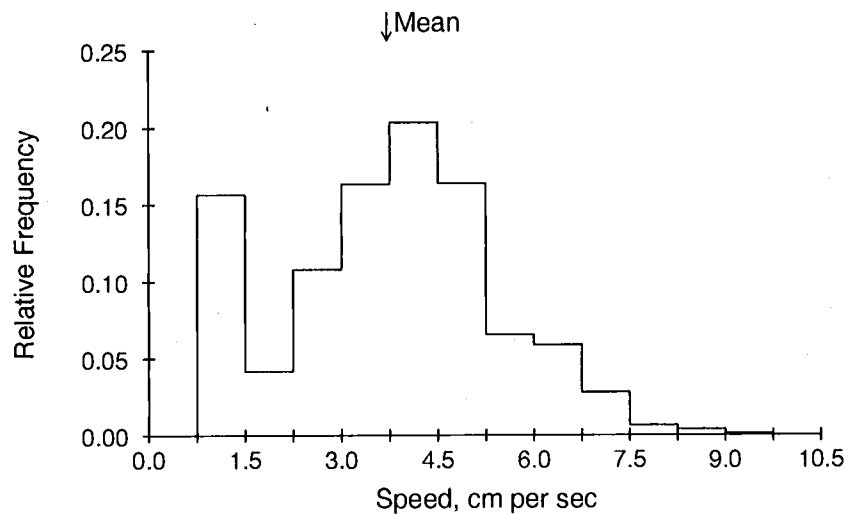
3980m at Samoa 5. 20 Sep 92 - 25 Feb 94. RCM 6731/24.



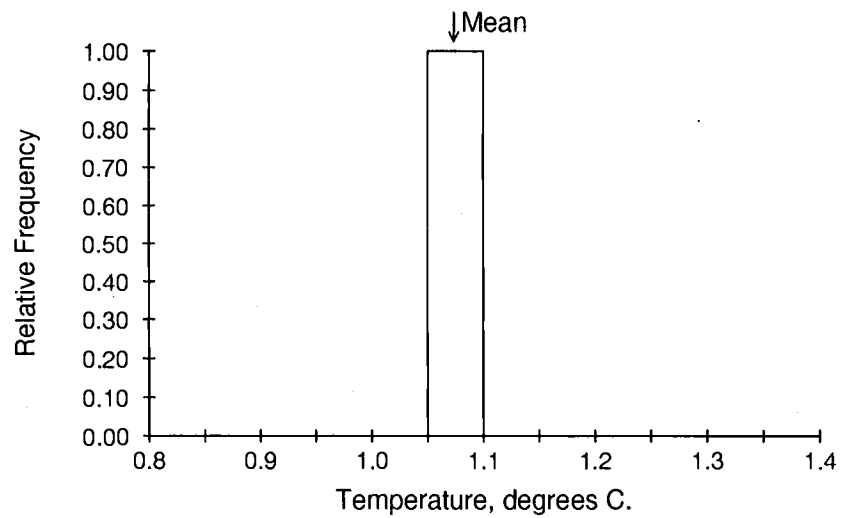
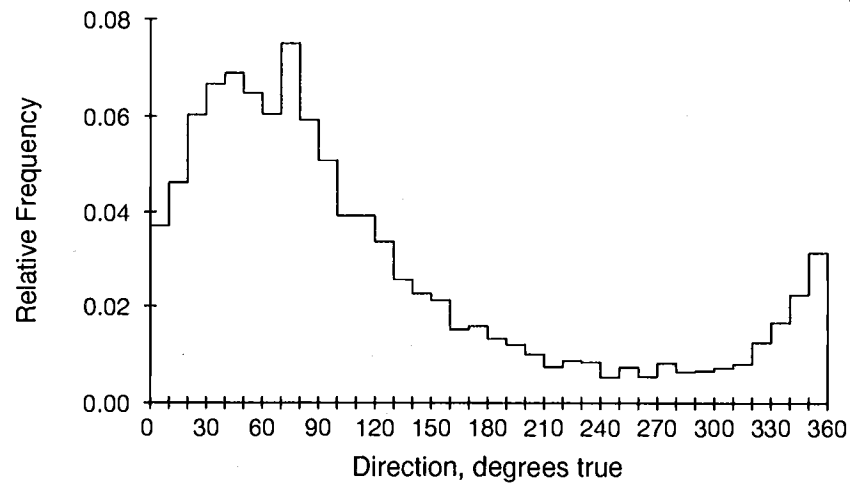
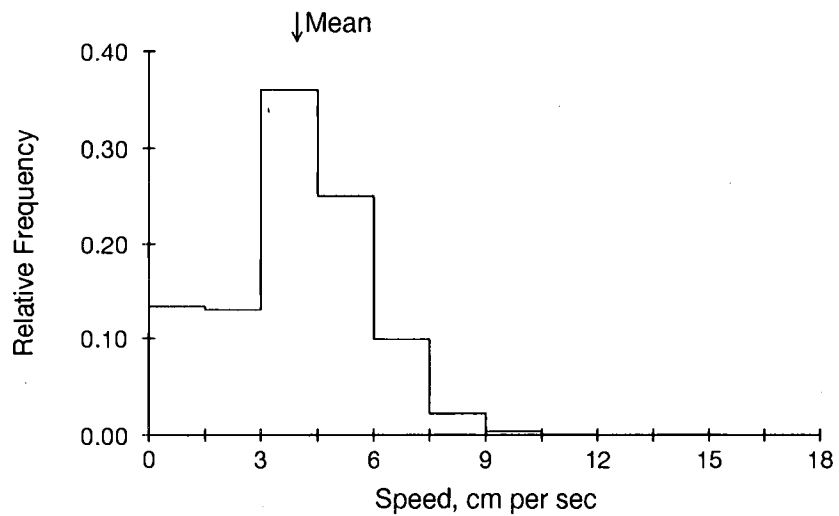
4330m at Samoa 5. 20 Sep 92 - 25 Feb 94. RCM 7163/27.



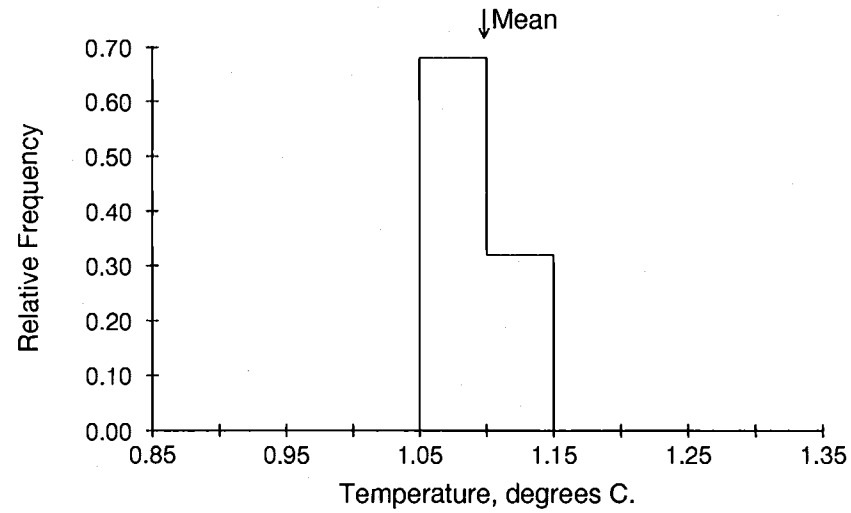
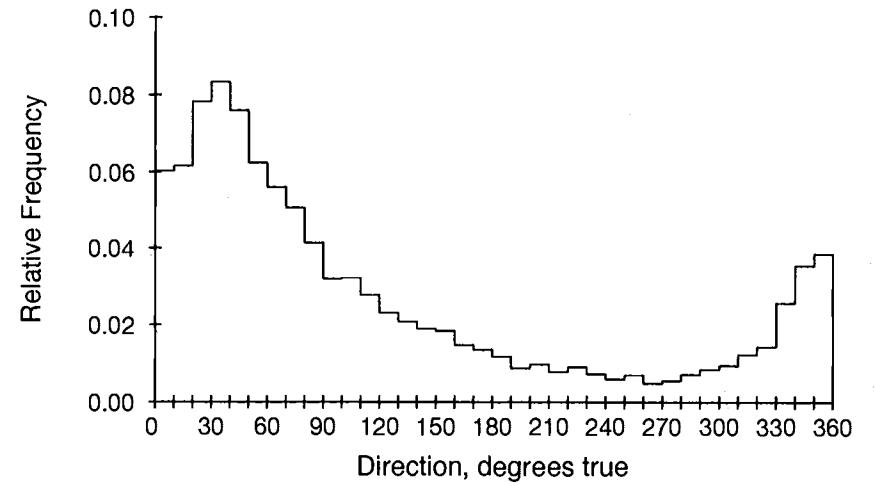
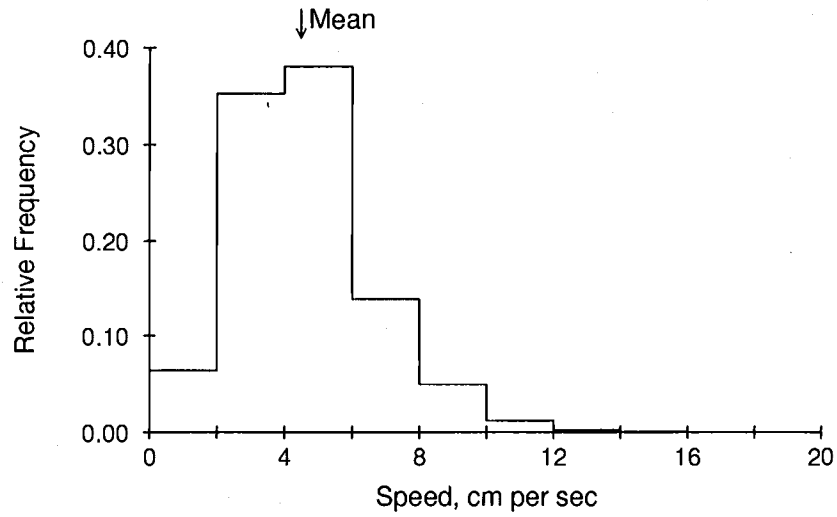
4630m at Samoa 5. 20 Sep 92 - 25 Feb 94. Tape 7213/27.



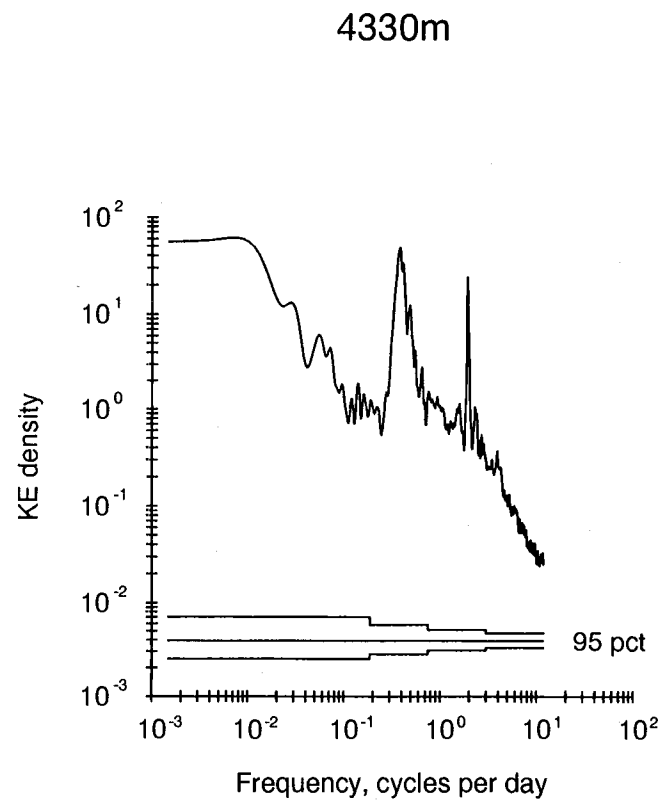
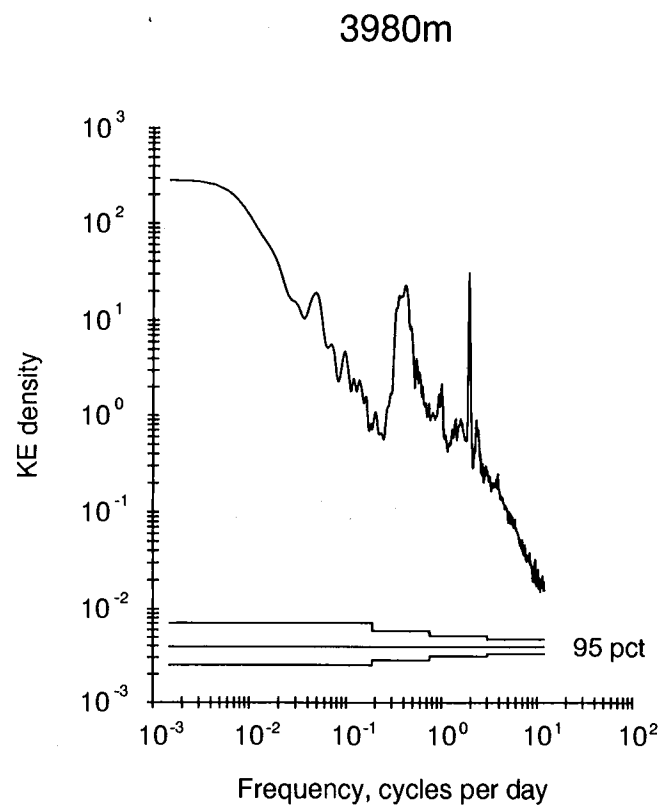
4880m at Samoa 5. 20 Sep 92 - 25 Feb 94. RCM 7351/32.



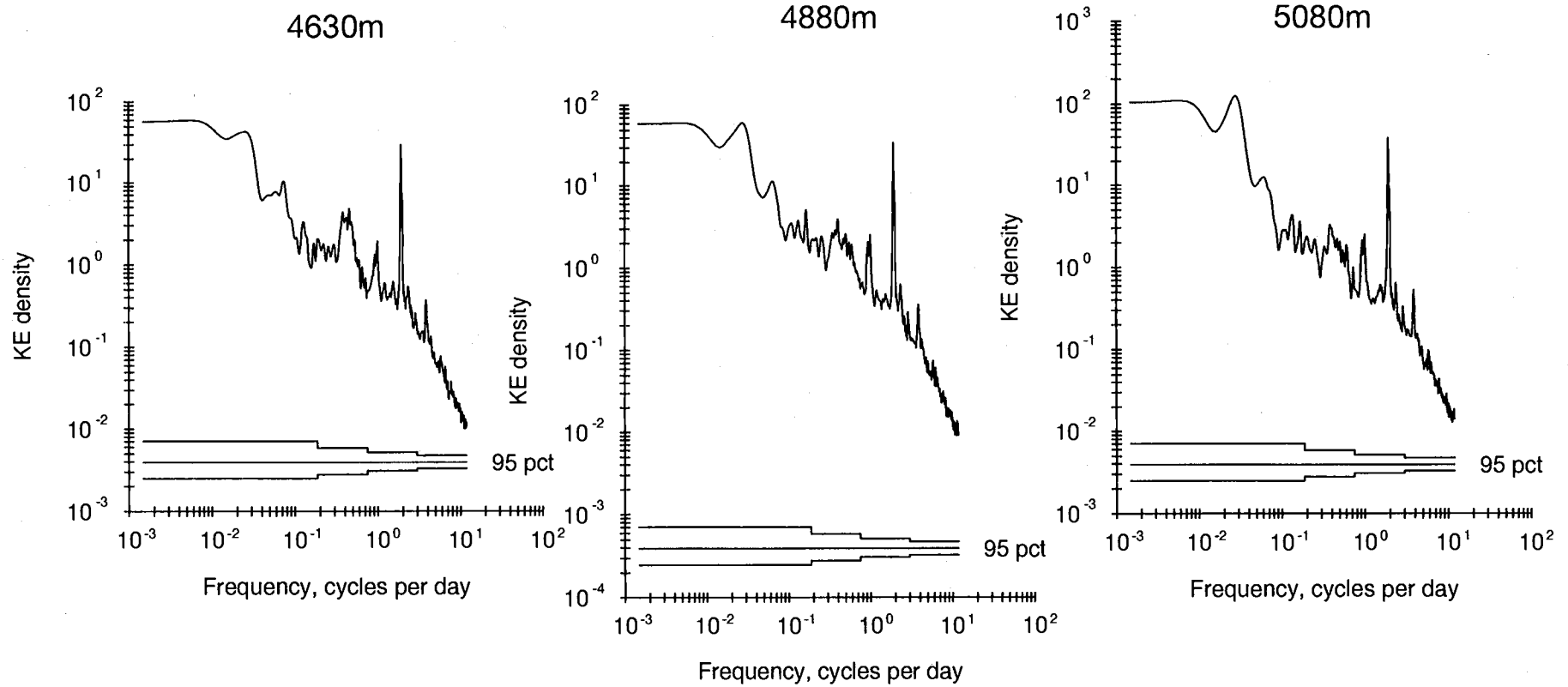
5080m at Samoa 5. 20 Sep 92 - 25 Feb 94. RCM 10644/5.

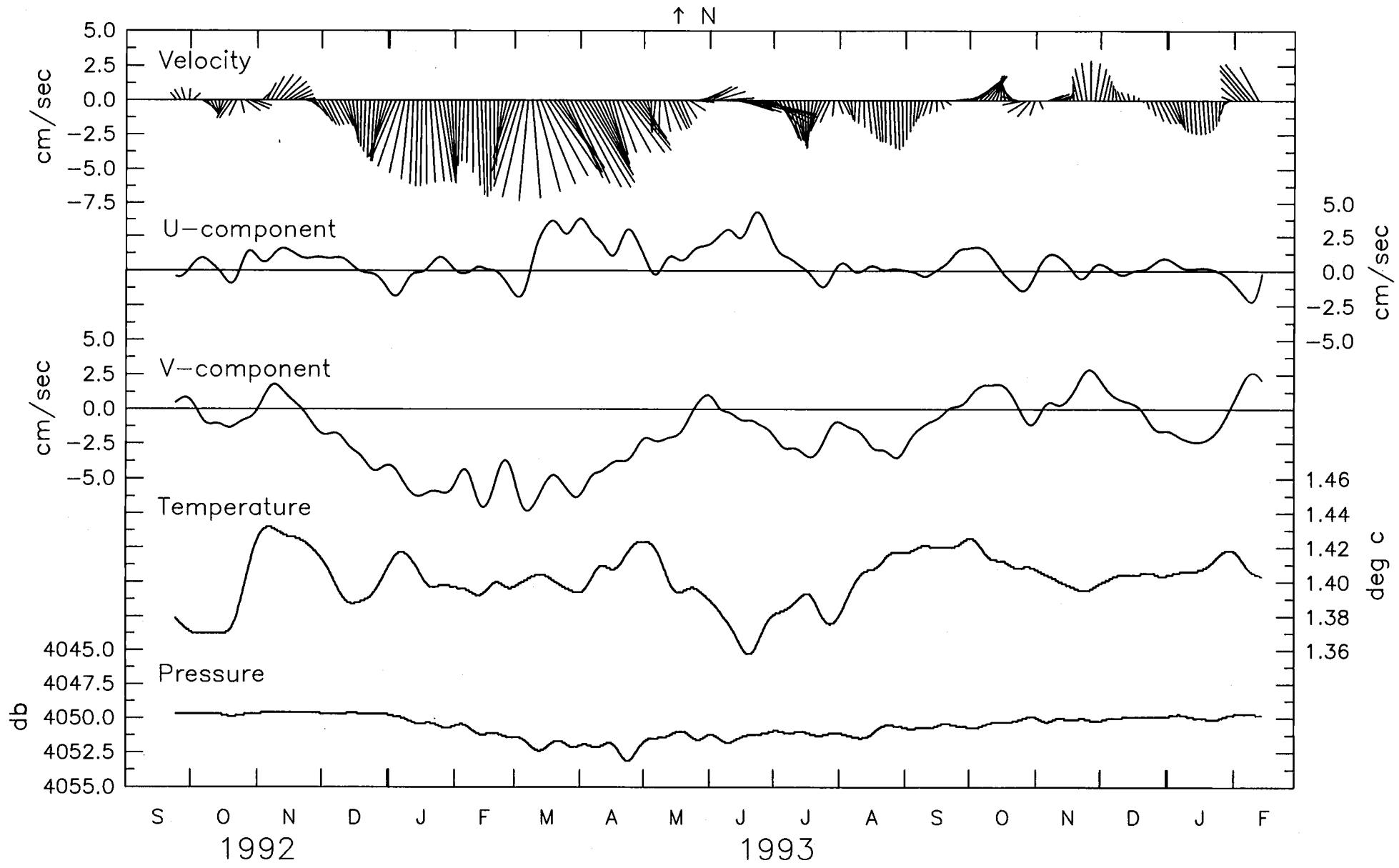


Mooring SAMOA 5. Unfiltered current.

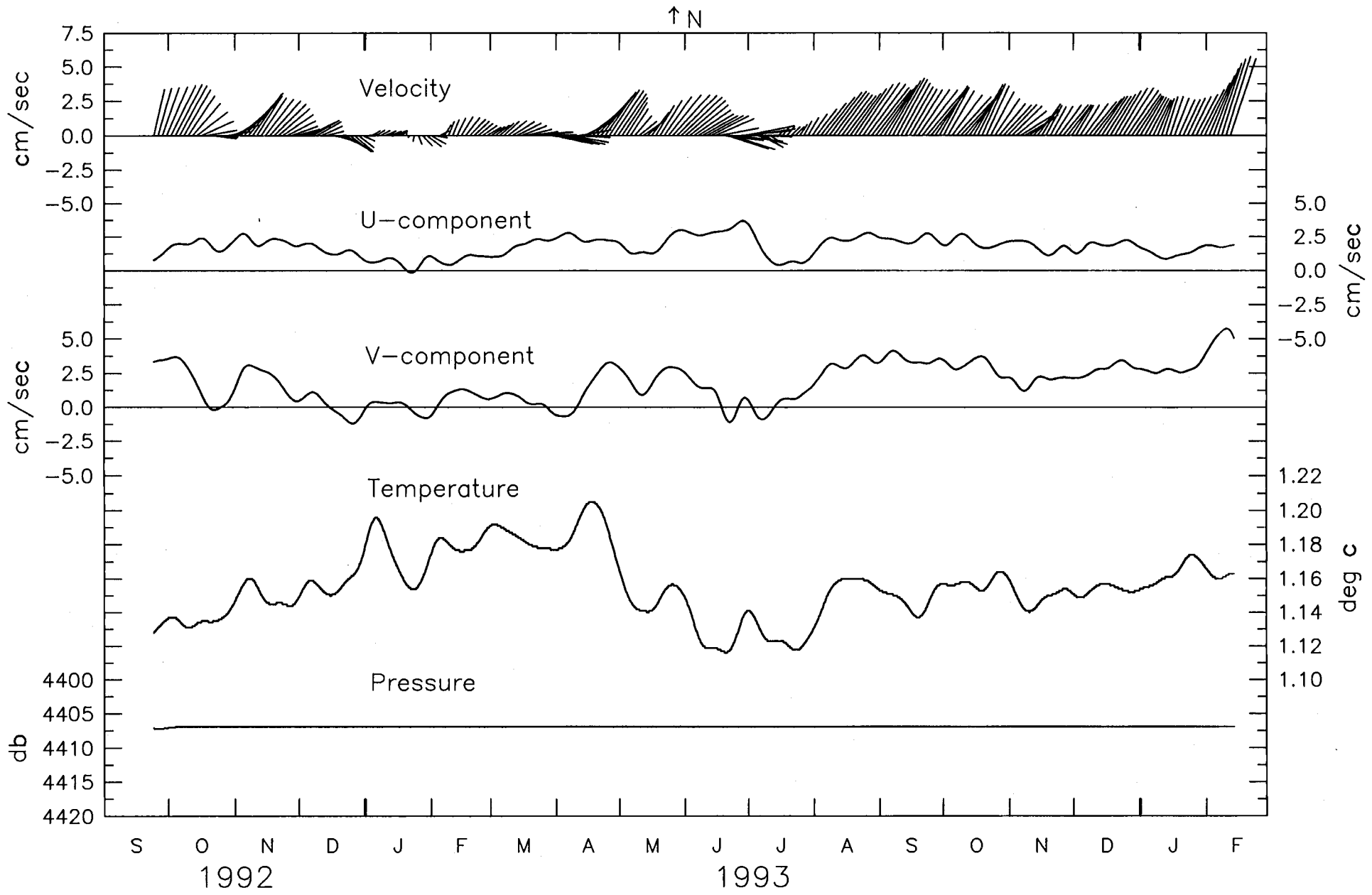


Mooring SAMOA 5. Unfiltered current.

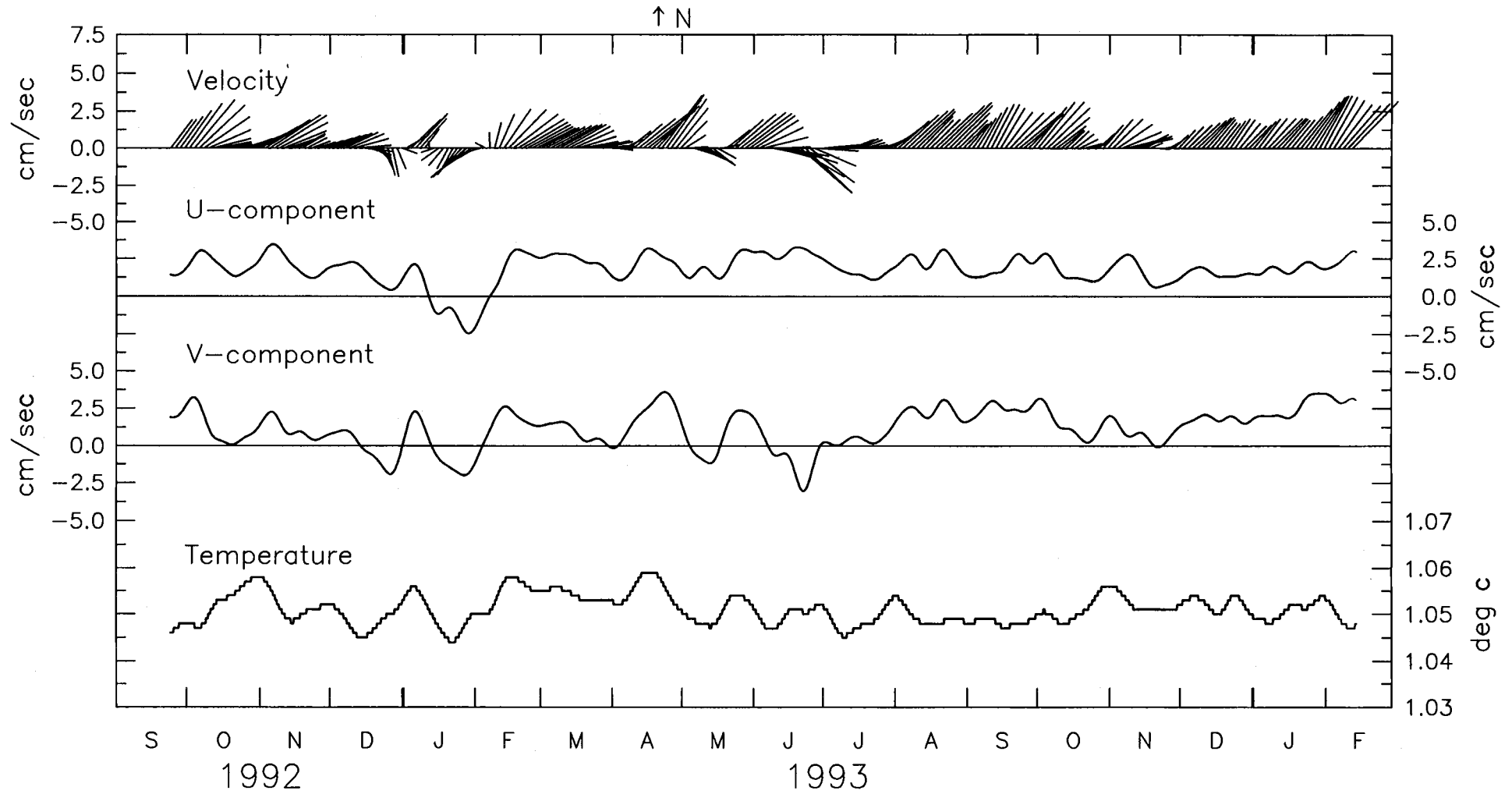




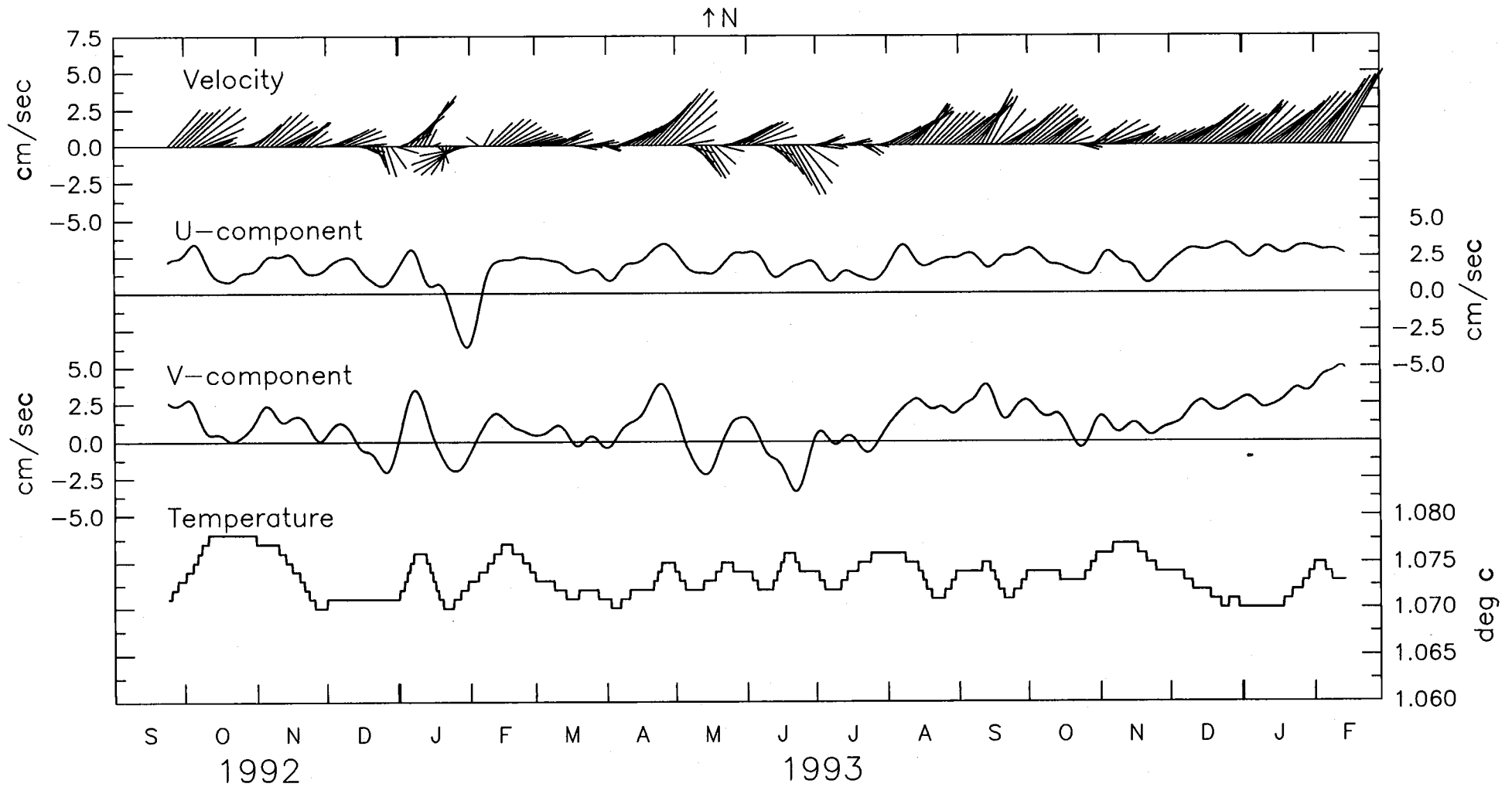
3980m at SAMOA 5. Low-Passed Data.



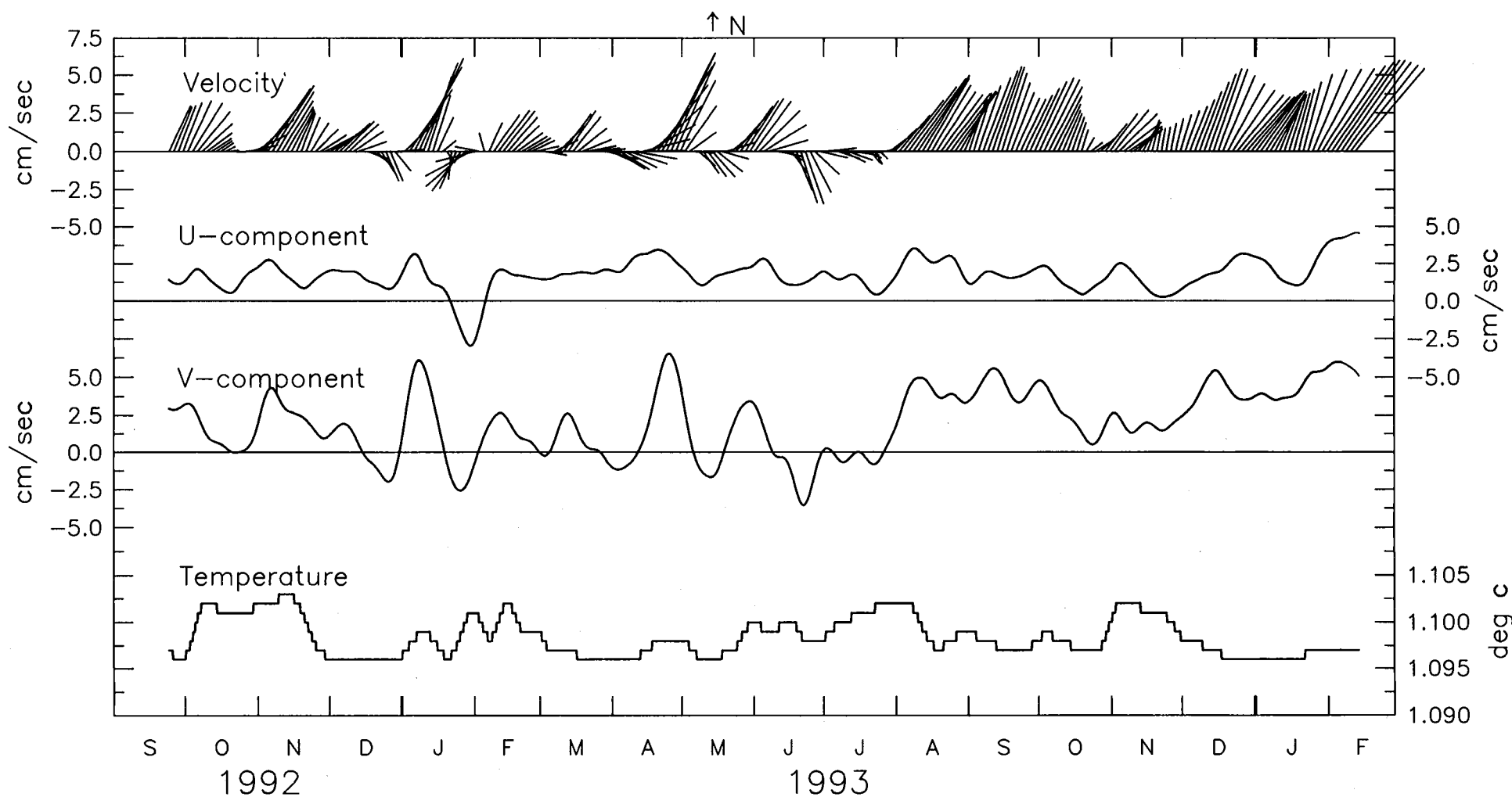
4330m at SAMOA 5. Low-Passed Data.



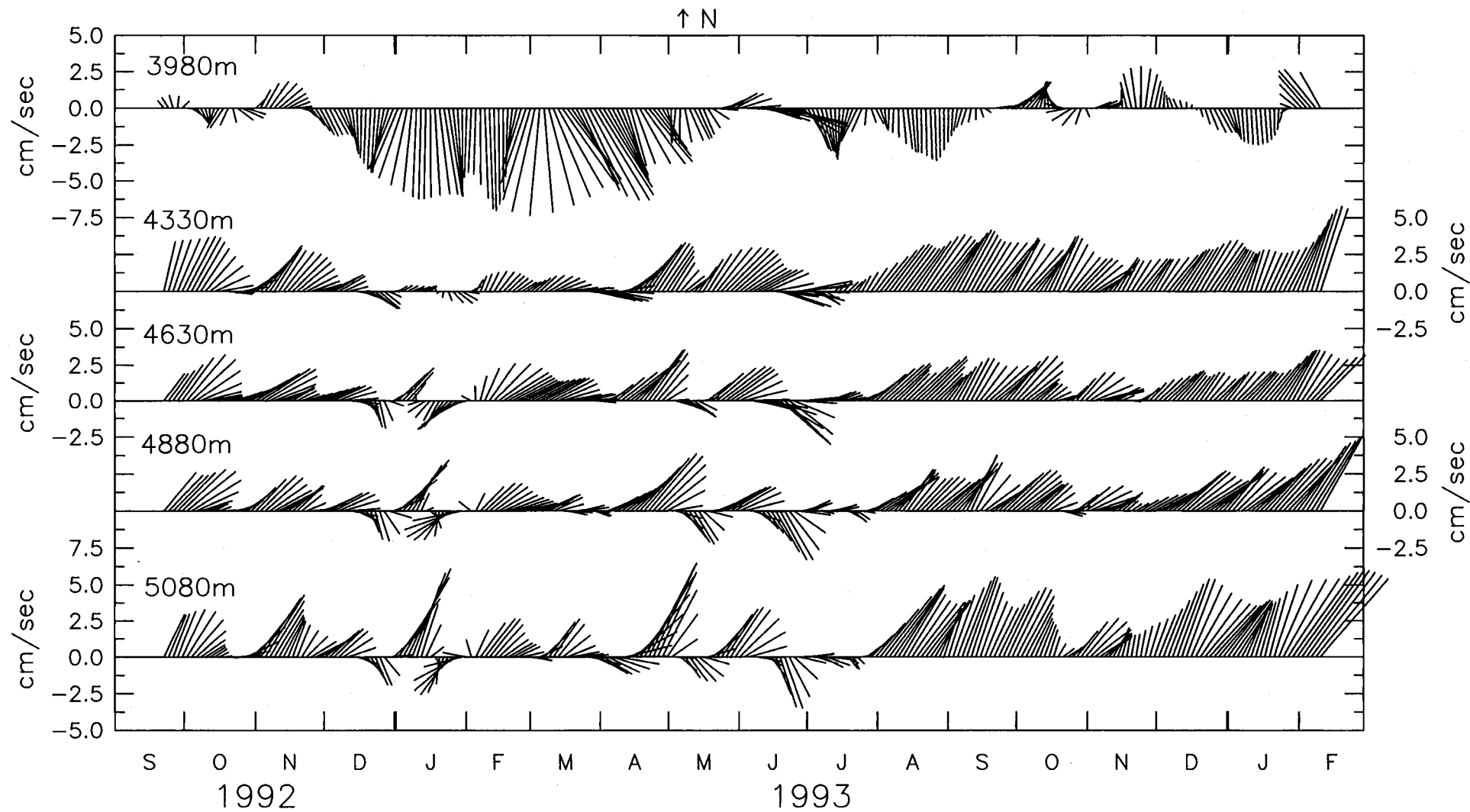
4630m at SAMOA 5. Low-Passed Data.



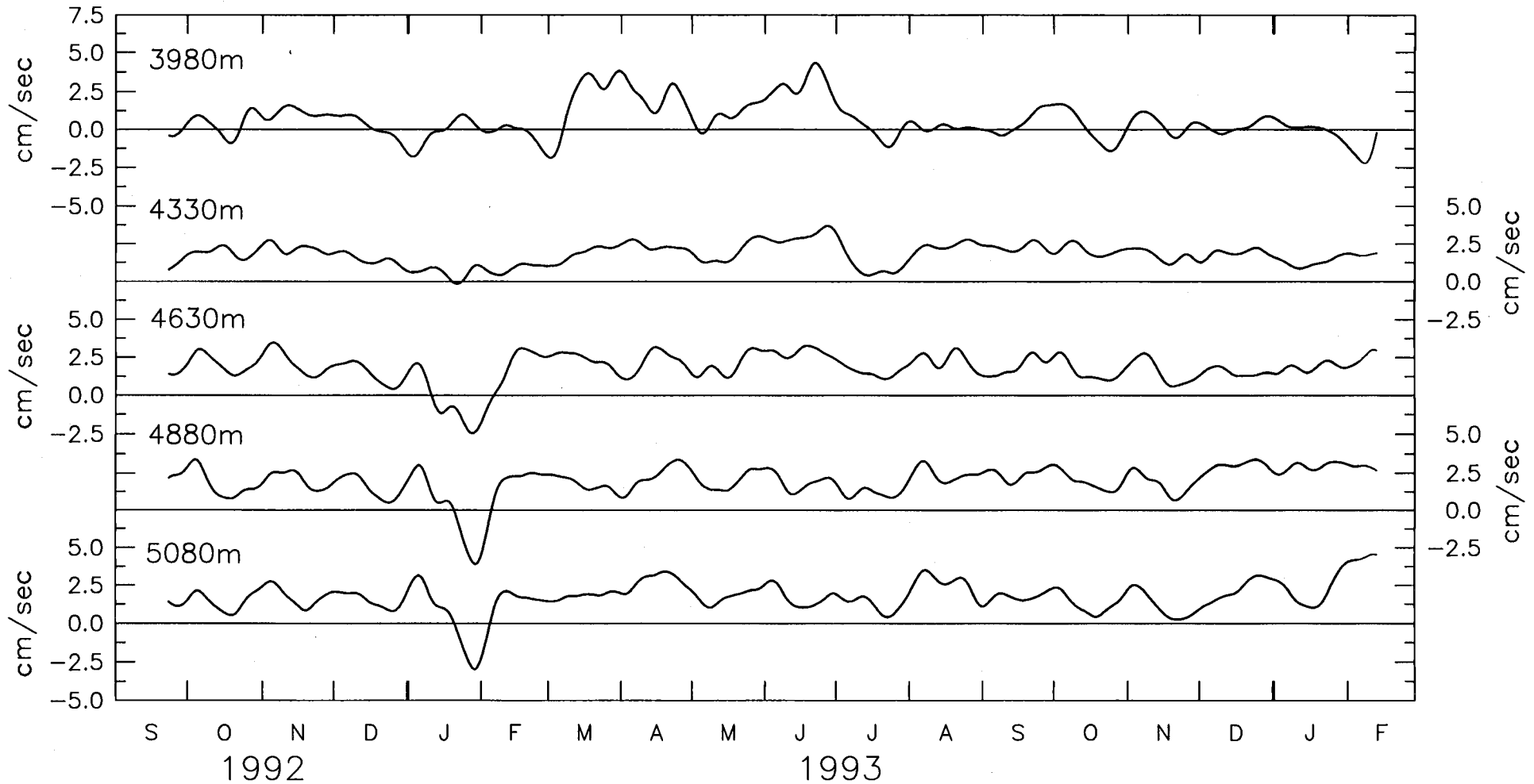
4880m at SAMOA 5. Low-Passed Data.



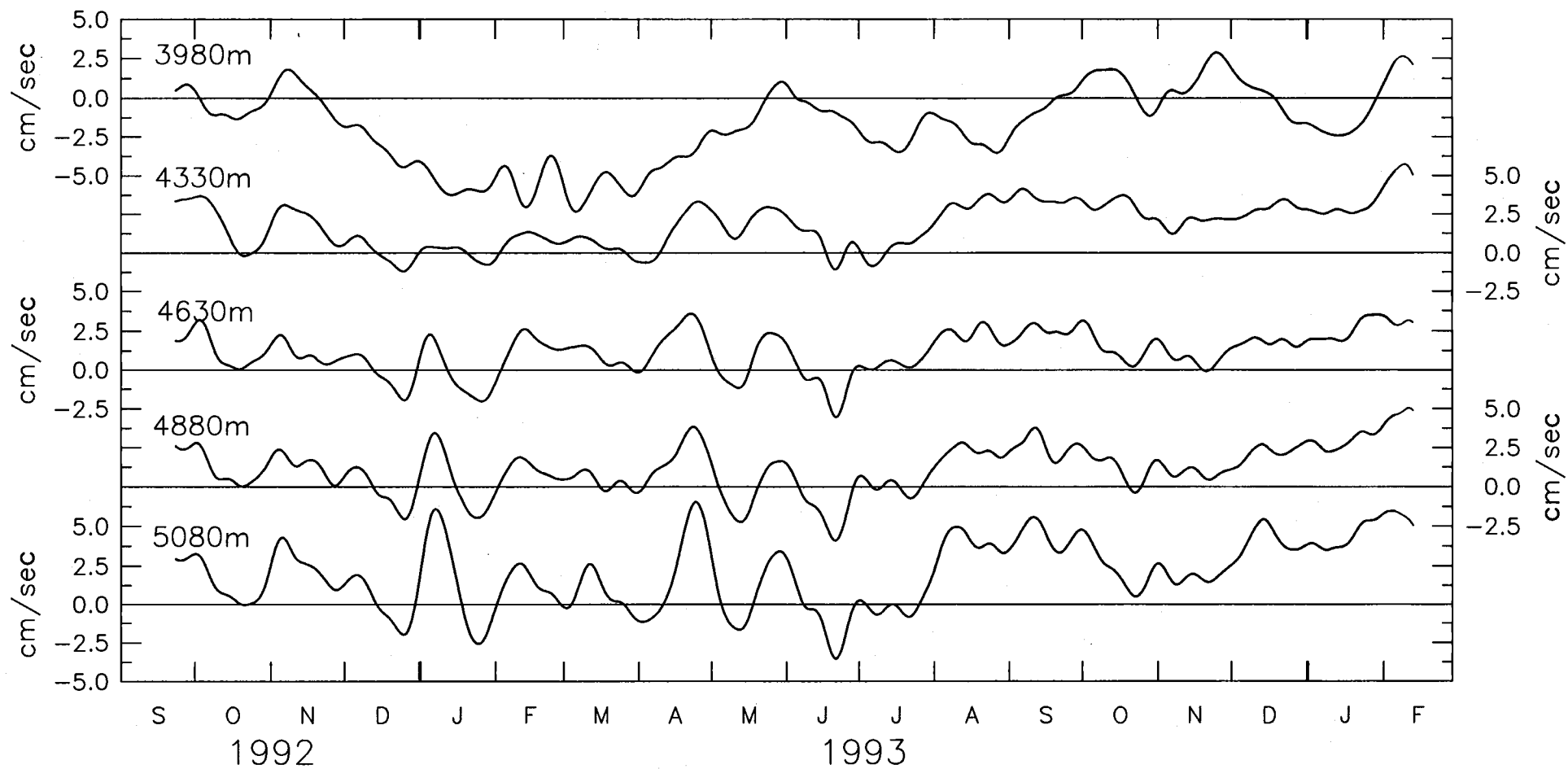
5080m at SAMOA 5. Low-Passed Data.



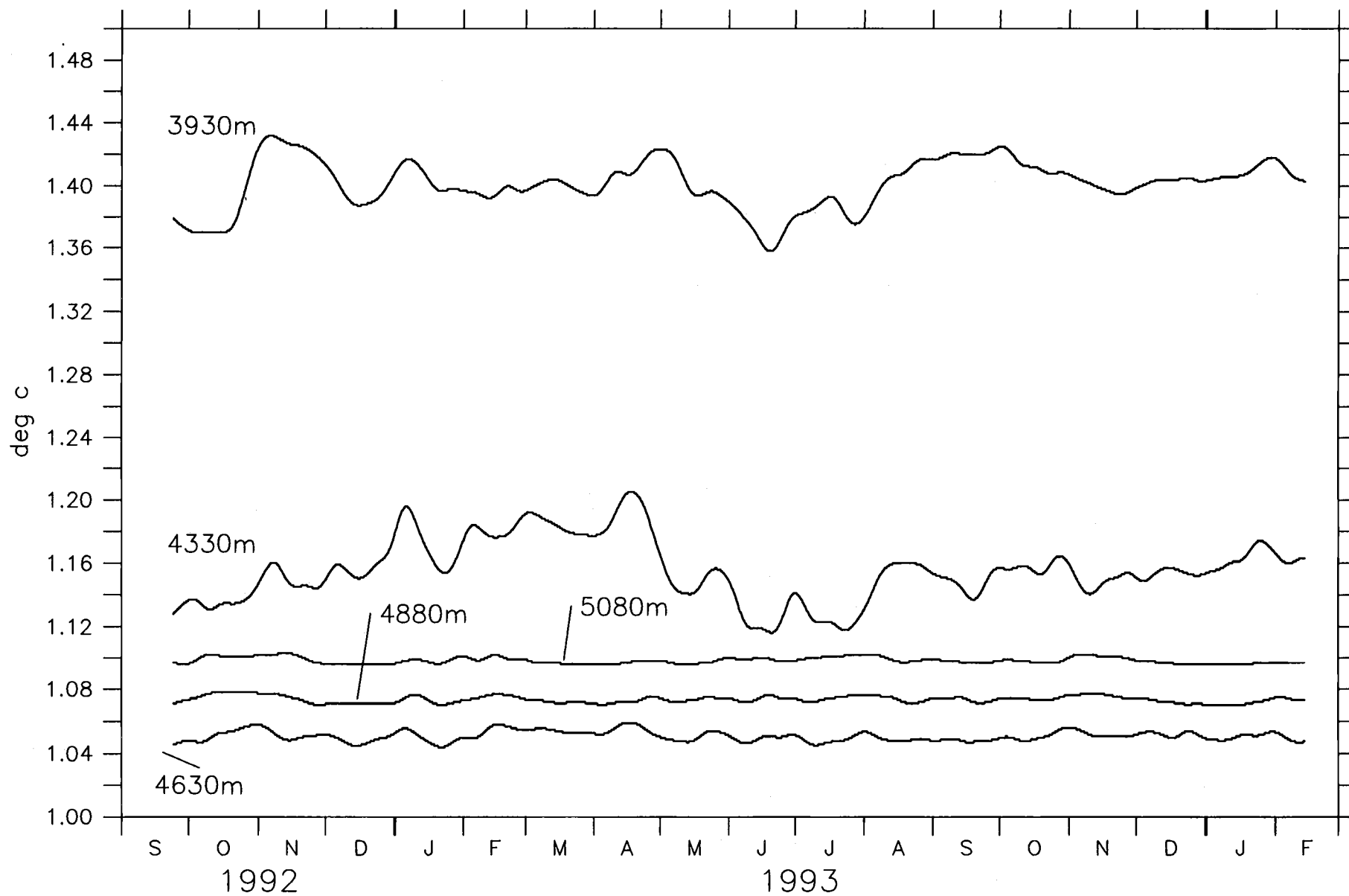
Velocity at SAMOA 5. Low-Passed Data.



U-Component at SAMOA 5. Low-Passed Data



V-component at SAMOA 5. Low-Passed Data.

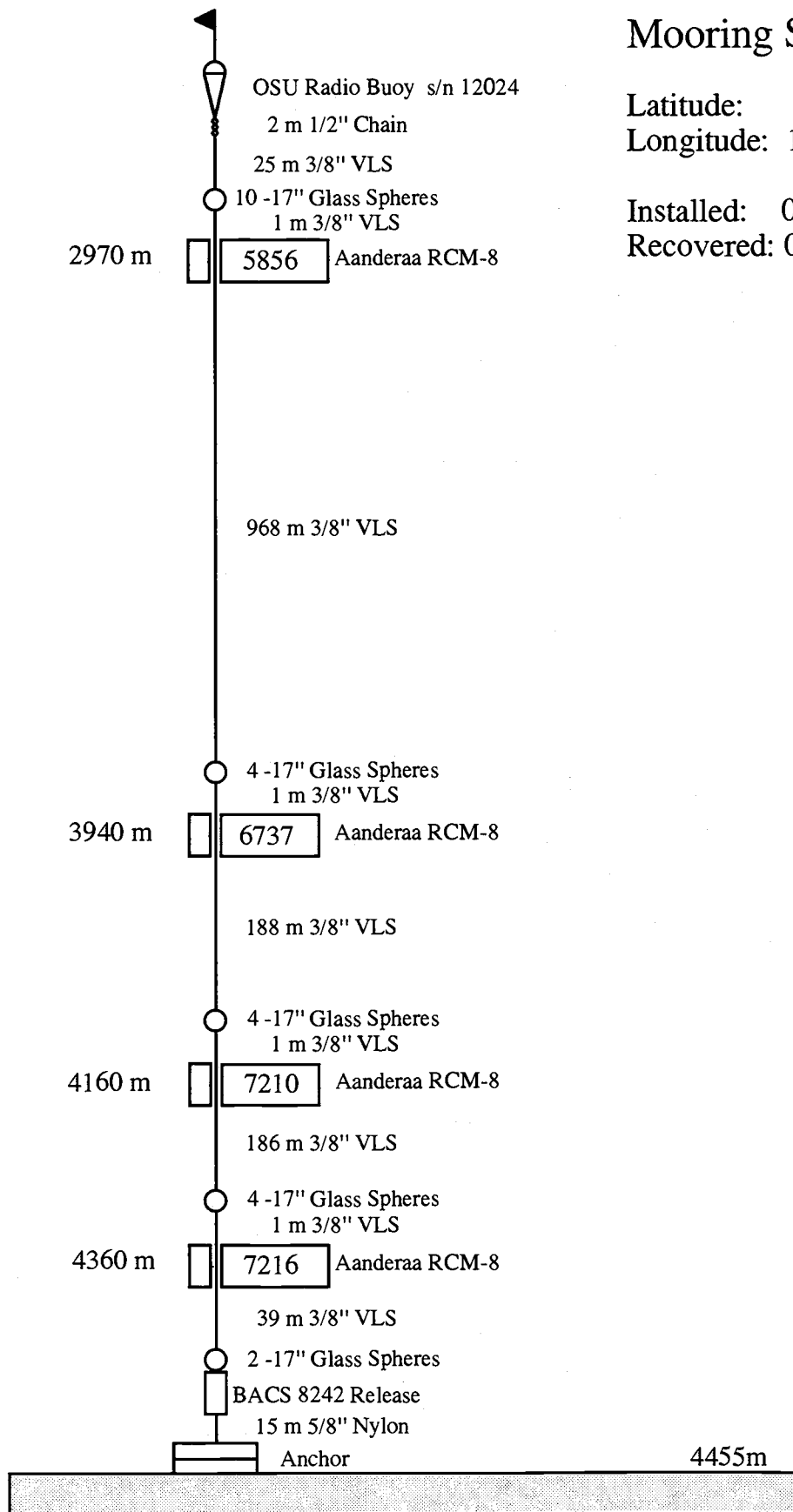


Temperature at SAMOA 5. Low-Passed Data.

Mooring SAMOA 6

Latitude: 10° 13.21' S
 Longitude: 168° 50.00' W

Installed: 0325 20 Sep. '92
 Recovered: 0100 26 Feb. '94



Mooring SAMOA 6.

Position: 10° 13.21' S
 168° 50.00' W
 Depth of Water: 4455m
 Mooring Set: 0325 U.C.T. 20 September 1992
 Mooring Retrieved: 0100 U.C.T. 26 February 1994
 Data Interval: 0600 U.C.T. 20 September 1992 - 0000 26 February 1994

Instrumentation:

<u>Depth m</u>	<u>RCM8 Serial No./Sequence No.</u>
2970m	5856/17
3940m	6737/38
4160m	7210/29
4360m	7216/26

Instrument 5856 recorded speed, direction, temperature, and pressure every 60 minutes until recovery. Temperature was set to null, lines 7246 (0300 19 Jul 93) to line 12571 (0000 26 Feb 94) end of the record. On Jul 19th the temperature sensor malfunctioned. The preceding temperature record looks good, but should be viewed with the malfunction in mind. The pressure record becomes shallower by 4 bits during the first two days of the installation. There were no corrections in the other parameters.

Instrument 6737 recorded speed, direction, temperature and pressure every 60 minutes. No corrections.

Instrument 7210 recorded speed, direction and temperature every 60 minutes. No corrections.

Instrument 7216 recorded speed, direction, and temperature every 60 minutes. No corrections.

SAMOA 6
Statistics, Unfiltered Hourly Data

2970 meters at SAMOA 6. 20 Sep 92 - 26 Feb 94. Tape 5856/17.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.14	12.59	1.83	12571
U, cm/sec	-9.75	0.59	10.19	3.02	12571
V, cm/sec	-11.10	0.86	11.71	3.22	12571
Temp, deg c	1.62	1.65	1.70	0.01	7245
Pressure, db	3002.73	3003.07	3034.19	1.78	12571

3940 meters at SAMOA 6. 20 Sep 92 - 26 Feb 94. Tape 6737/38.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.57	12.59	1.98	12571
U, cm/sec	-9.67	1.22	11.41	3.36	12571
V, cm/sec	-10.84	0.35	12.01	3.46	12571
Temp, deg c	1.37	1.42	1.46	0.01	12571
Pressure, db	4002.80	4012.30	4014.15	2.66	12571

4160 meters at SAMOA 6. 20 Sep 92 - 26 Feb 94. Tape 7210/29.

	min	mean	max	sd	num
Speed, cm/sec	0.93	4.23	12.88	1.85	12571
U, cm/sec	-11.27	0.42	12.68	3.23	12571
V, cm/sec	-9.04	0.51	12.83	3.23	12571
Temp, deg c	1.21	1.30	1.38	0.03	12571

4360 meters at SAMOA 6. 20 Sep 92 - 26 Feb 94. Tape 7216/26.

	min	mean	max	sd	num
Speed, cm/sec	0.93	3.97	13.45	1.68	12571
U, cm/sec	-8.49	-0.14	8.06	2.83	12571
V, cm/sec	-12.03	-0.84	9.40	3.14	12571
Temp, deg c	1.05	1.11	1.29	0.03	12571

SAMOA 6
Statistics, Low-Passed Data

2970 meters at SAMOA 6. 27 Sep 92 - 18 Feb 94. Tape 5856/17.

	min	mean	max	sd	num
Speed, cm/sec	0.04	2.04	4.04	0.85	2036
U, cm/sec	-2.17	0.56	3.37	1.24	2036
V, cm/sec	-3.44	0.90	3.52	1.49	2036
Temp, deg c	1.64	1.65	1.66	0.01	1148
Pressure, db	3002.73	3002.93	3009.34	0.98	2036

3940 meters at SAMOA 6. 27 Sep 92 - 18 Feb 94. Tape 6737/38.

	min	mean	max	sd	num
Speed, cm/sec	0.21	2.58	5.85	1.15	2036
U, cm/sec	-2.36	1.23	4.70	1.76	2036
V, cm/sec	-3.52	0.31	3.99	1.80	2036
Temp, deg c	1.39	1.42	1.44	0.01	2036
Pressure, db	4008.47	4012.37	4014.15	2.40	2036

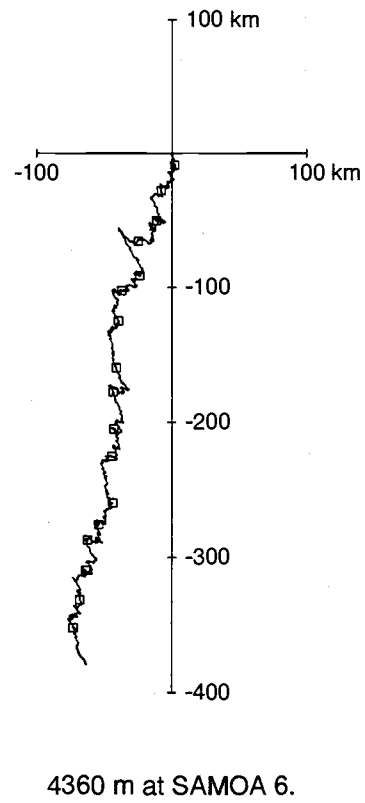
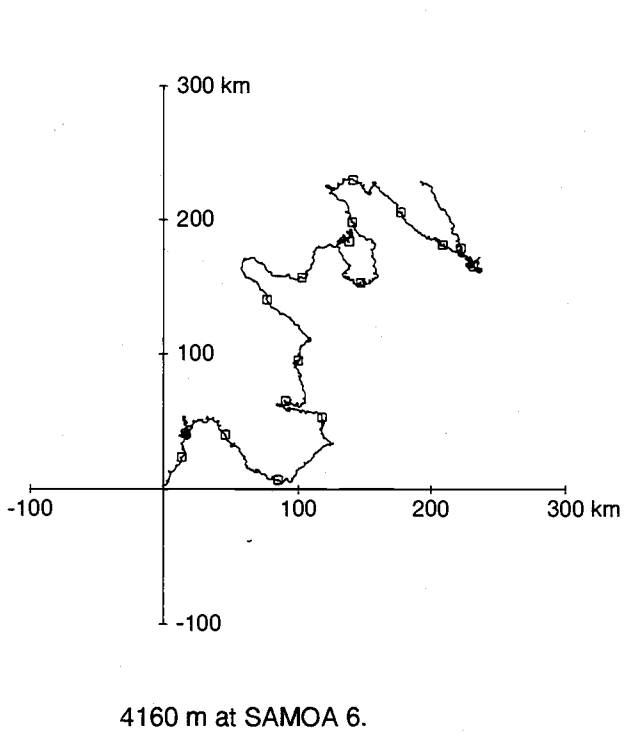
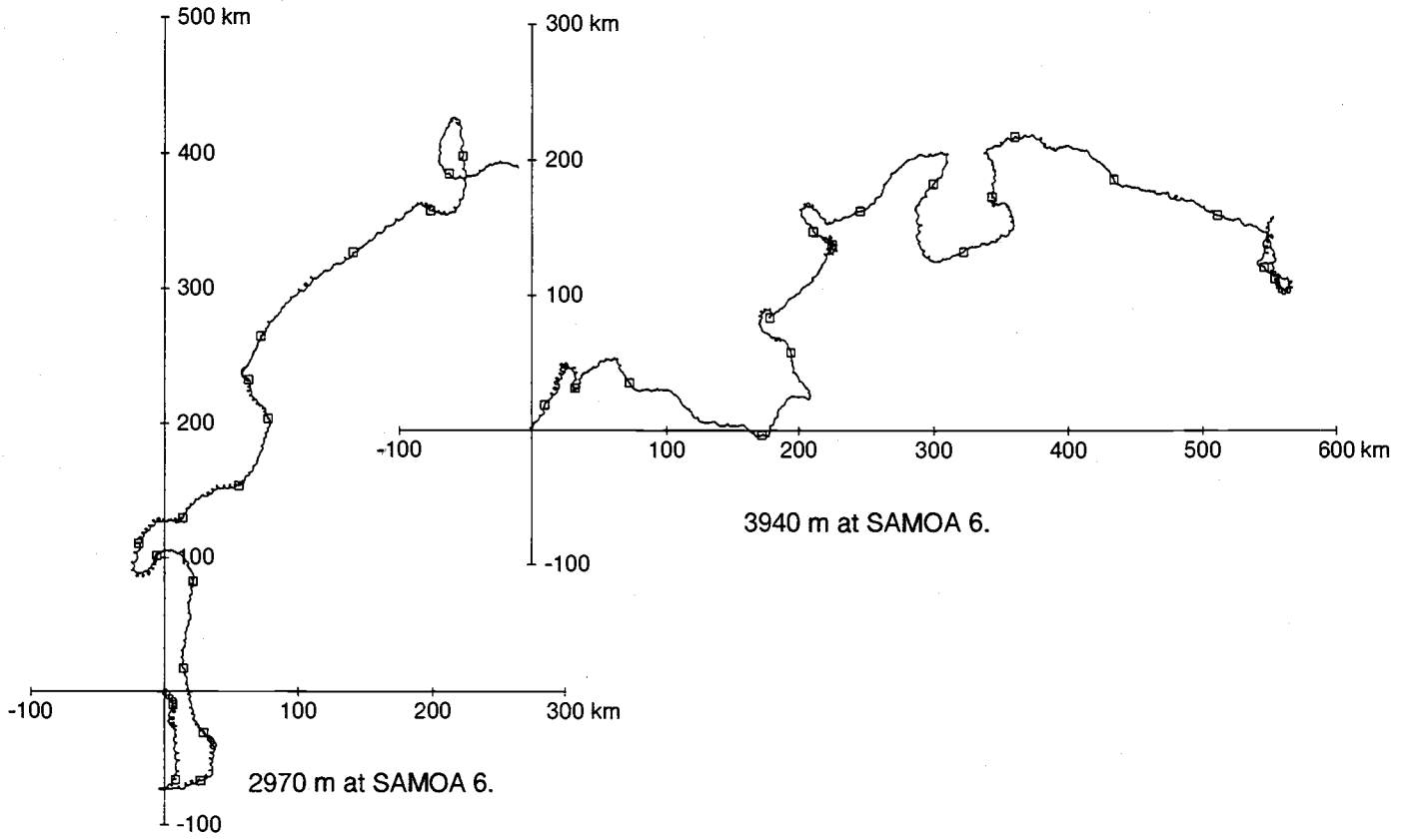
4160 meters at SAMOA 6. 27 Sep 92 - 18 Feb 94. Tape 7210/29.

	min	mean	max	sd	num
Speed, cm/sec	0.02	1.87	4.76	0.84	2036
U, cm/sec	-2.66	0.44	3.56	1.35	2036
V, cm/sec	-2.40	0.46	3.37	1.40	2036
Temp, deg c	1.27	1.31	1.36	0.02	2036

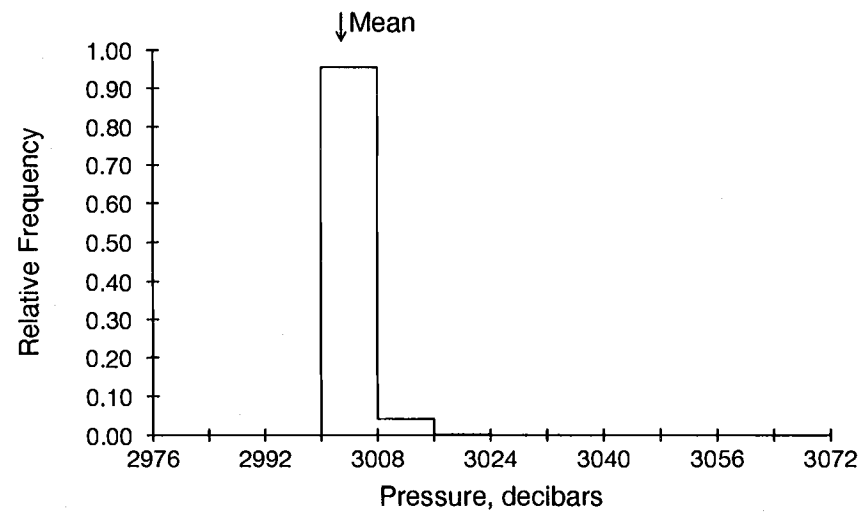
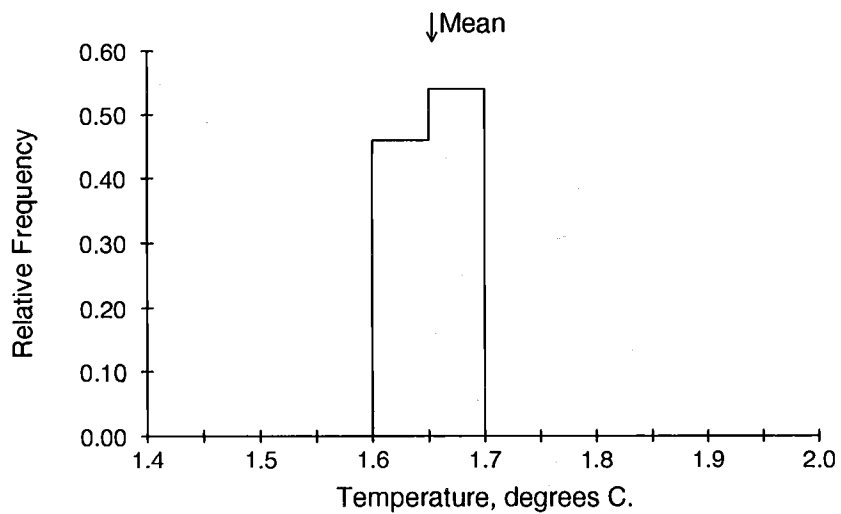
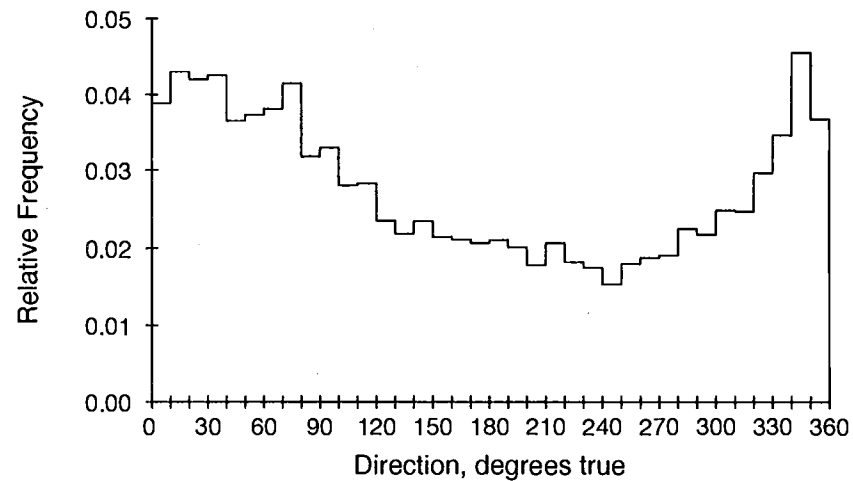
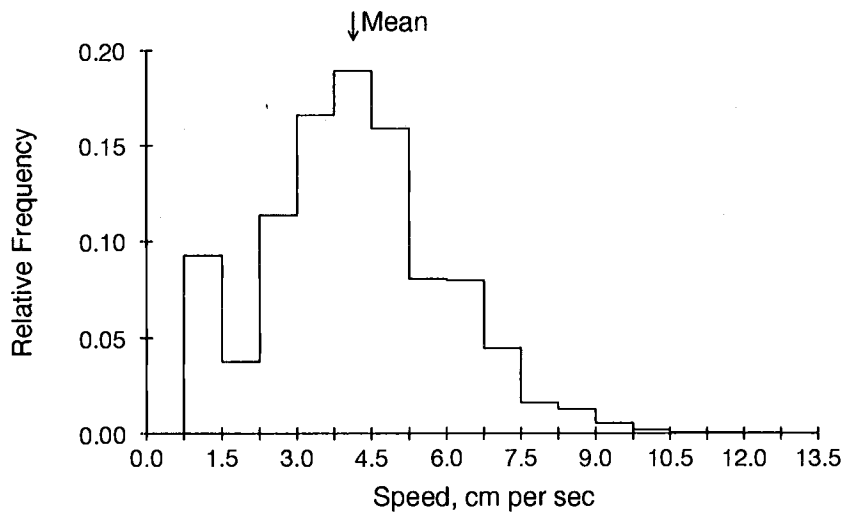
4360 meters at SAMOA 6. 27 Sep 92 - 18 Feb 94. Tape 7216/26.

	min	mean	max	sd	num
Speed, cm/sec	0.14	1.07	3.38	0.52	2036
U, cm/sec	-1.78	-0.16	1.66	0.53	2036
V, cm/sec	-2.95	-0.83	1.08	0.64	2036
Temp, deg c	1.07	1.11	1.23	0.03	2036

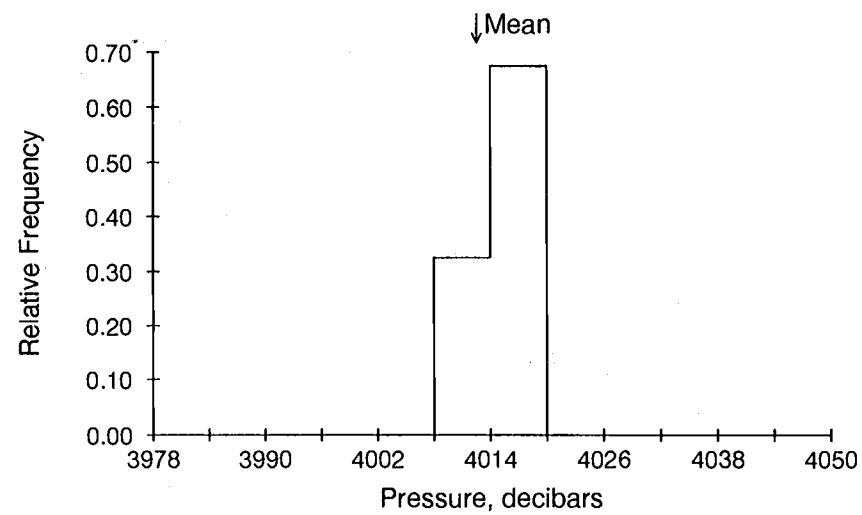
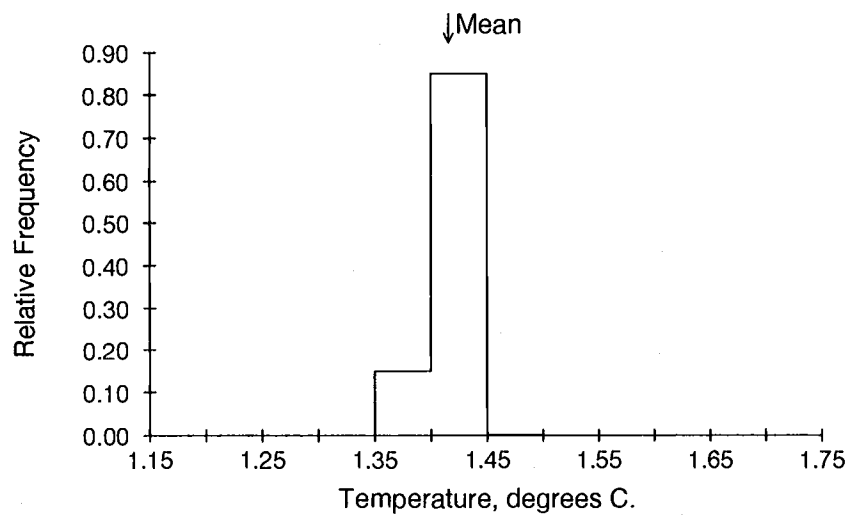
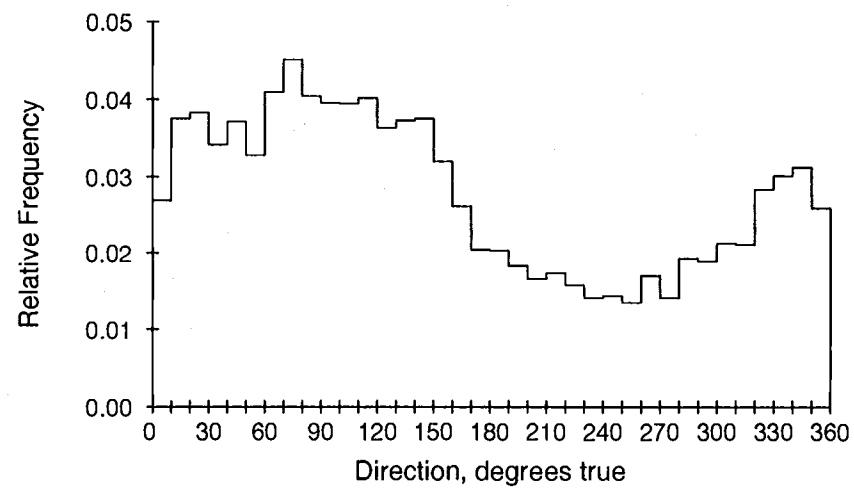
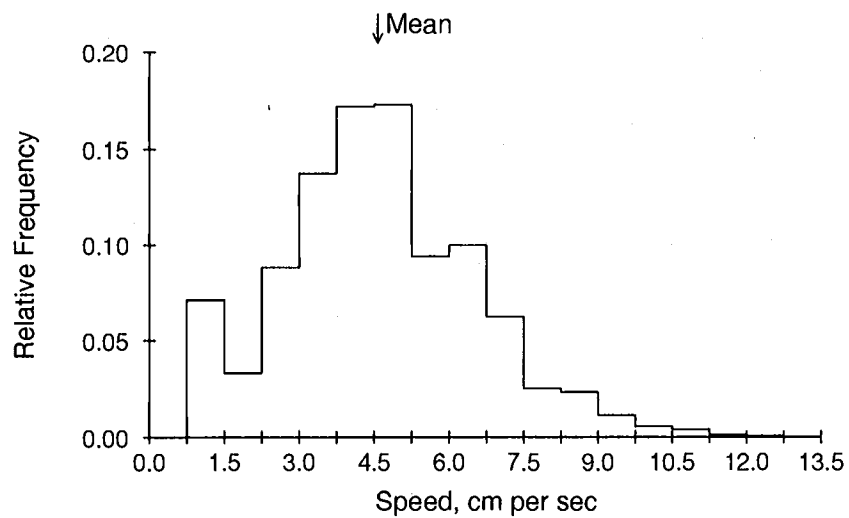
Mooring SAMOA 6. 20 Sep 92 - 26 Feb 94. N ↑



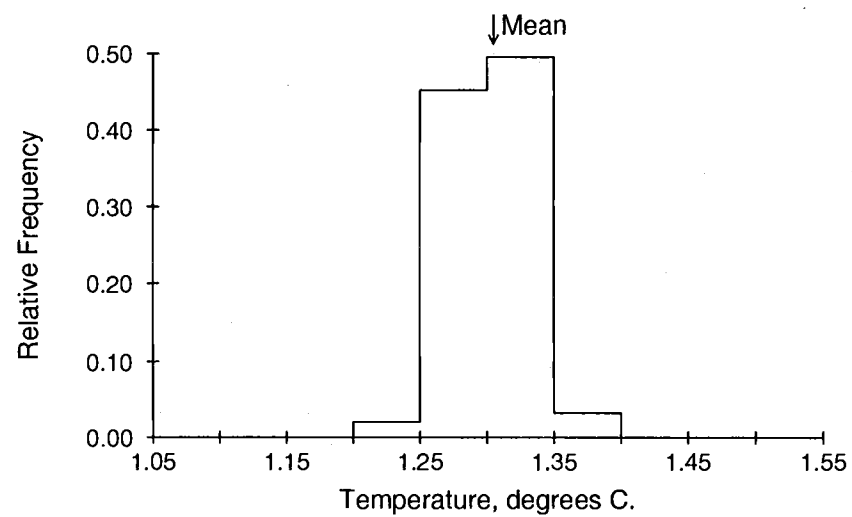
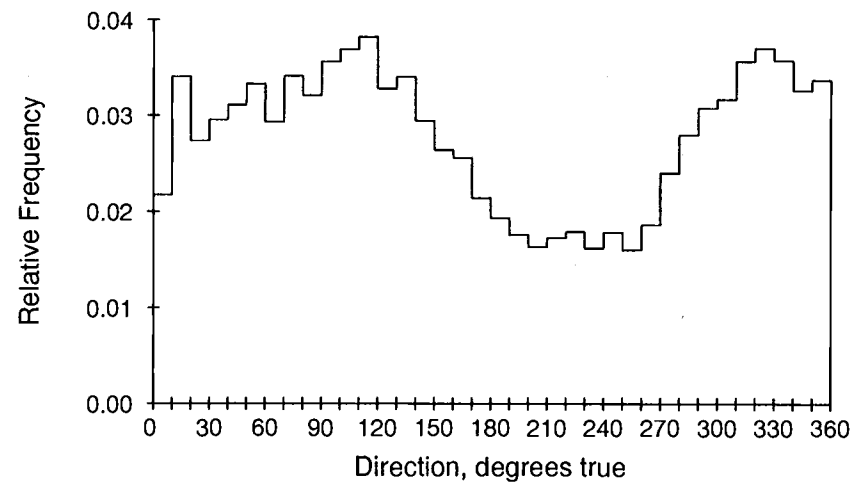
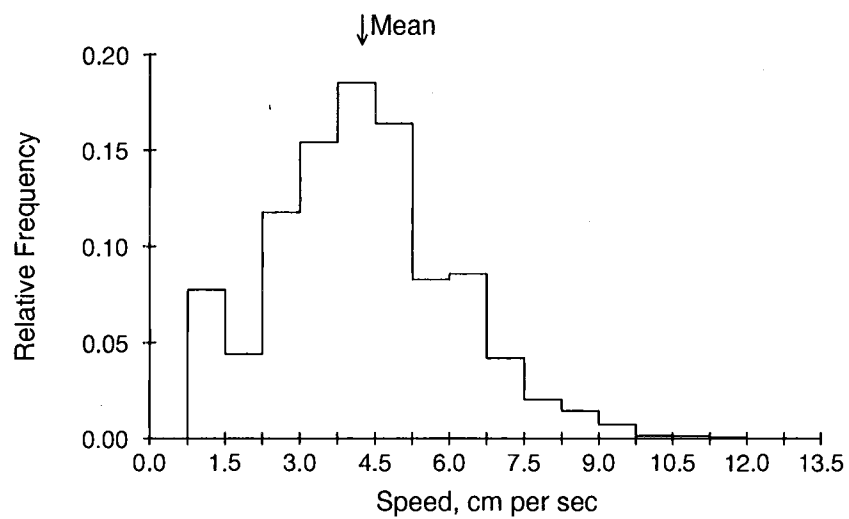
2970m at Samoa 6. 20 Feb 92 - 26 Feb 94. RCM 5856/17.



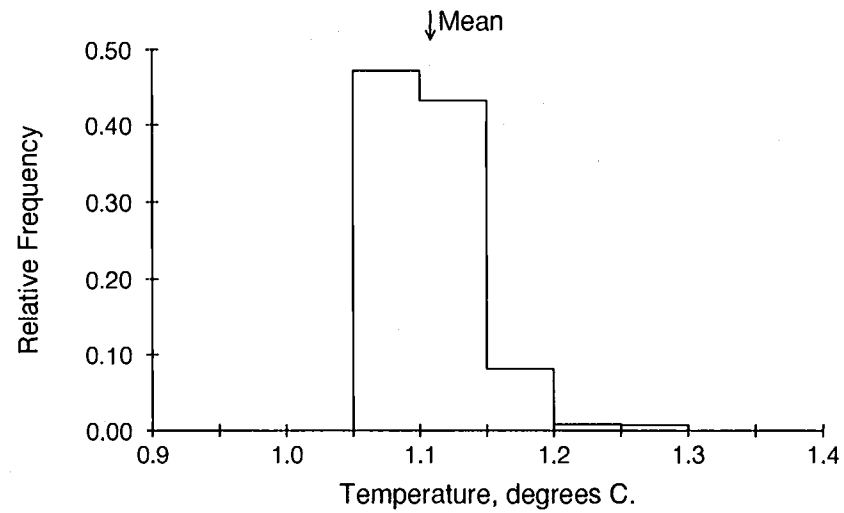
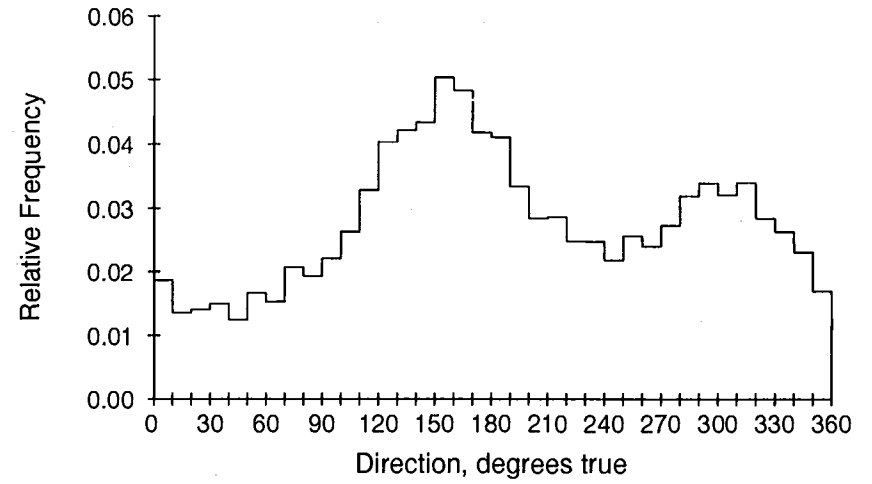
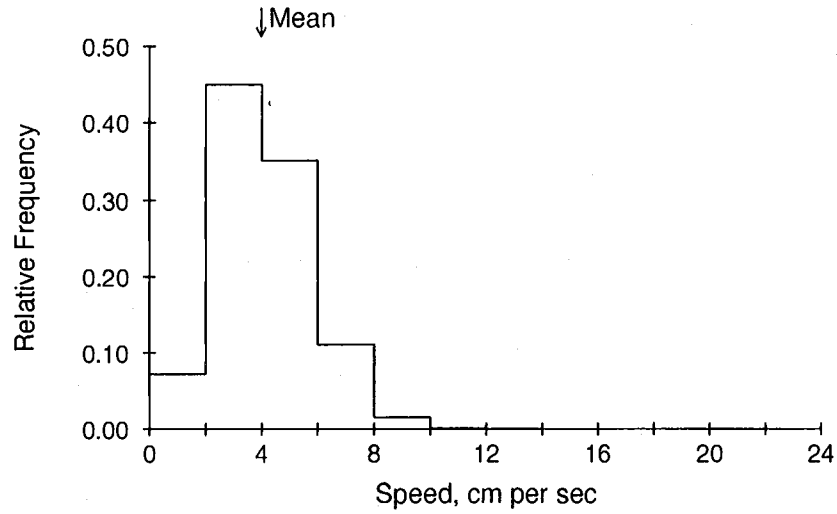
3940m at Samoa 6. 20 Feb 92 - 26 Feb 94. RCM 6738/38.



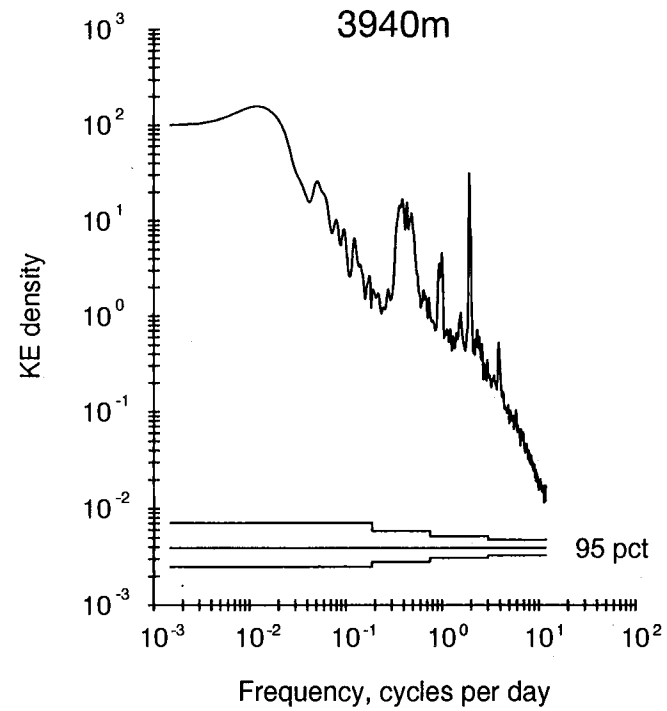
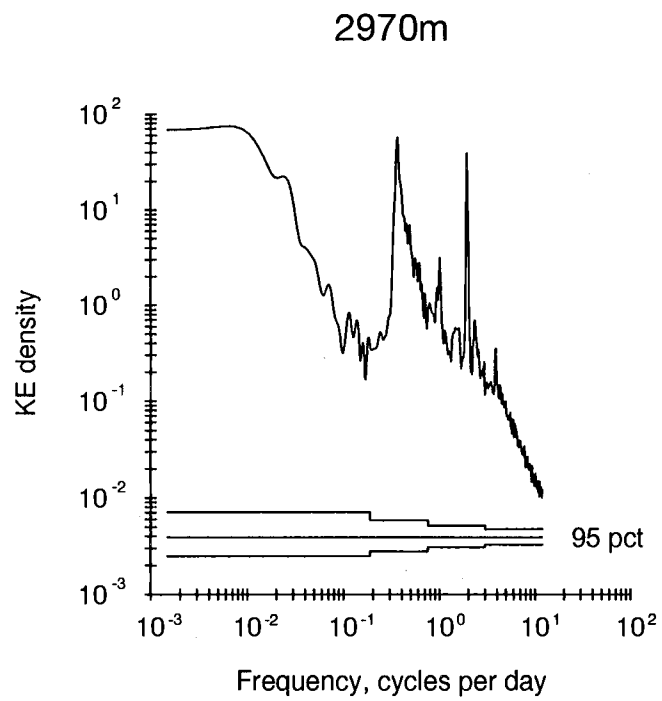
4160m at Samoa 6. 20 Feb 92 - 26 Feb 94. RCM 7210.29.



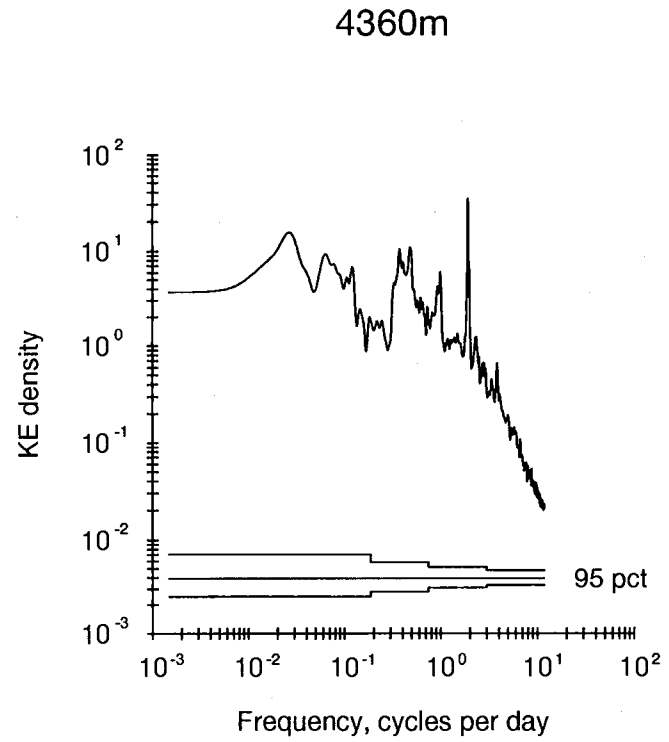
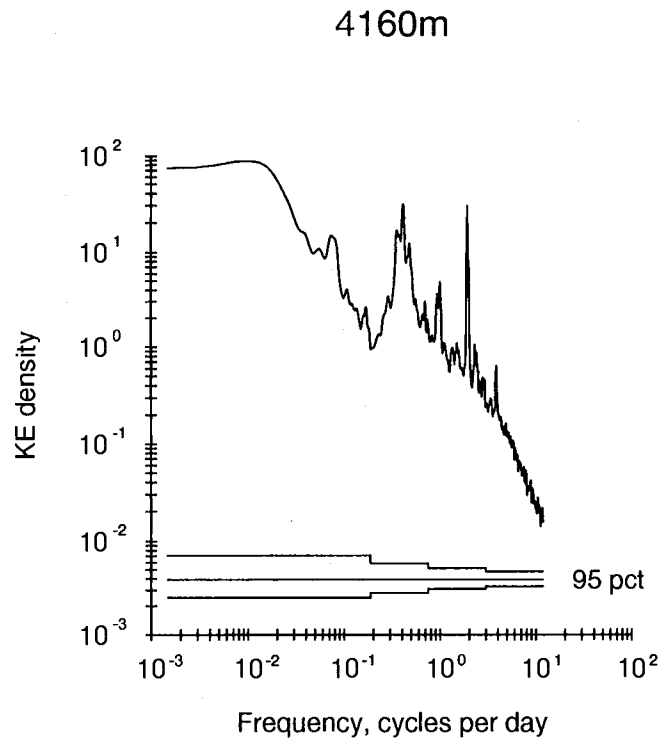
4360m at Samoa 6. 20 Feb 92 - 26 Feb 94. RCM 7216/26.

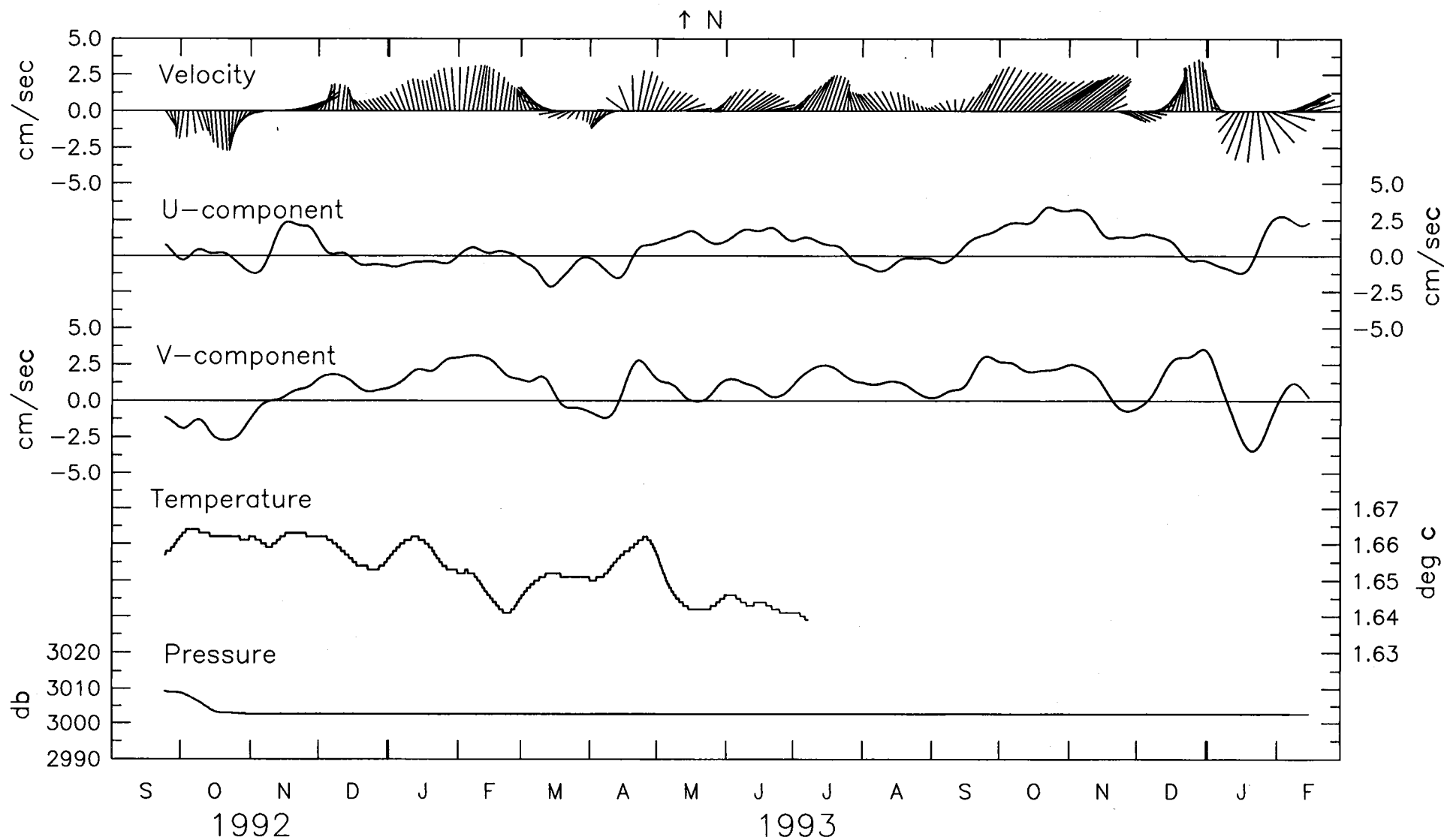


Mooring SAMOA 6. Unfiltered current.

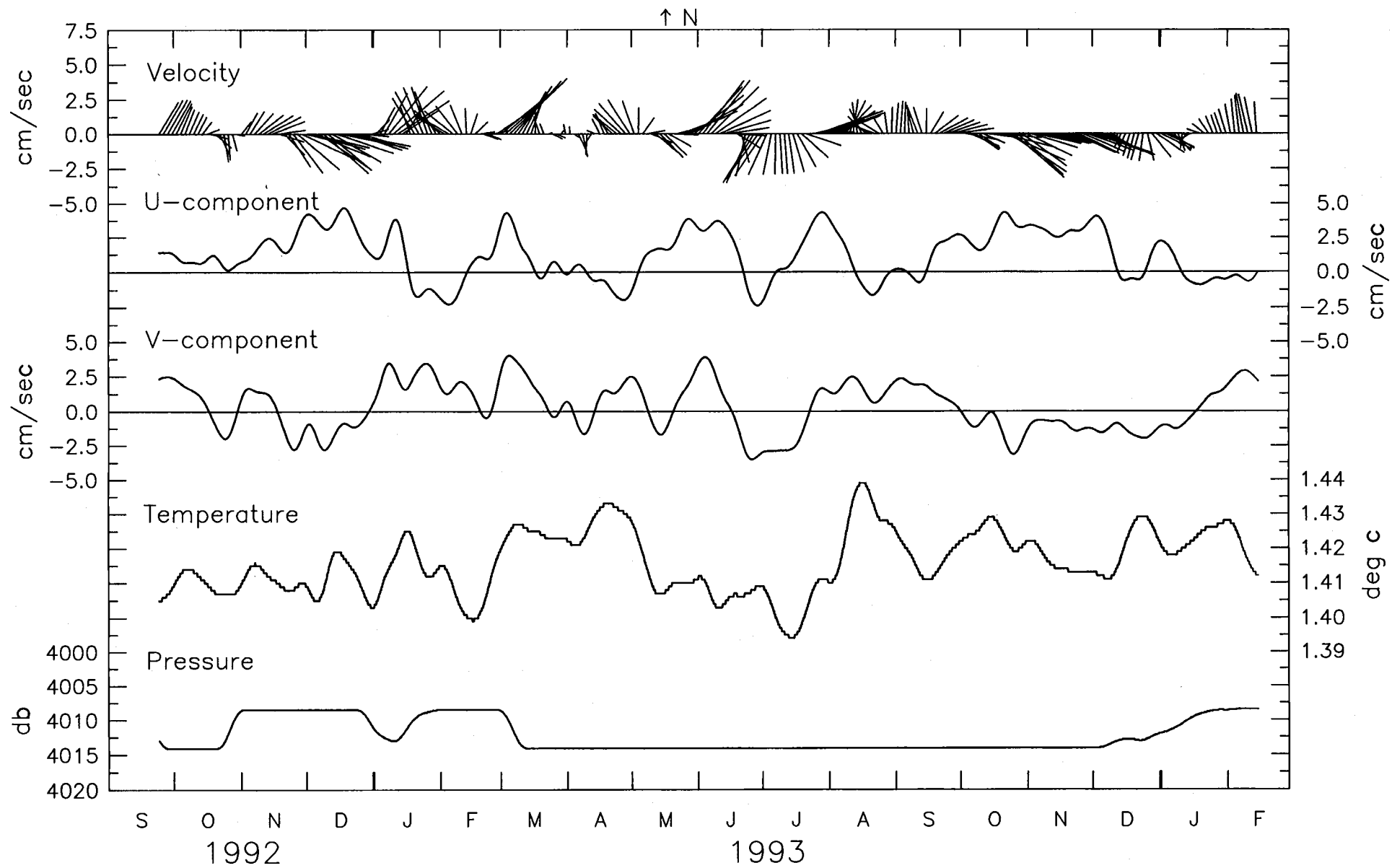


Mooring SAMOA 6. Unfiltered current.

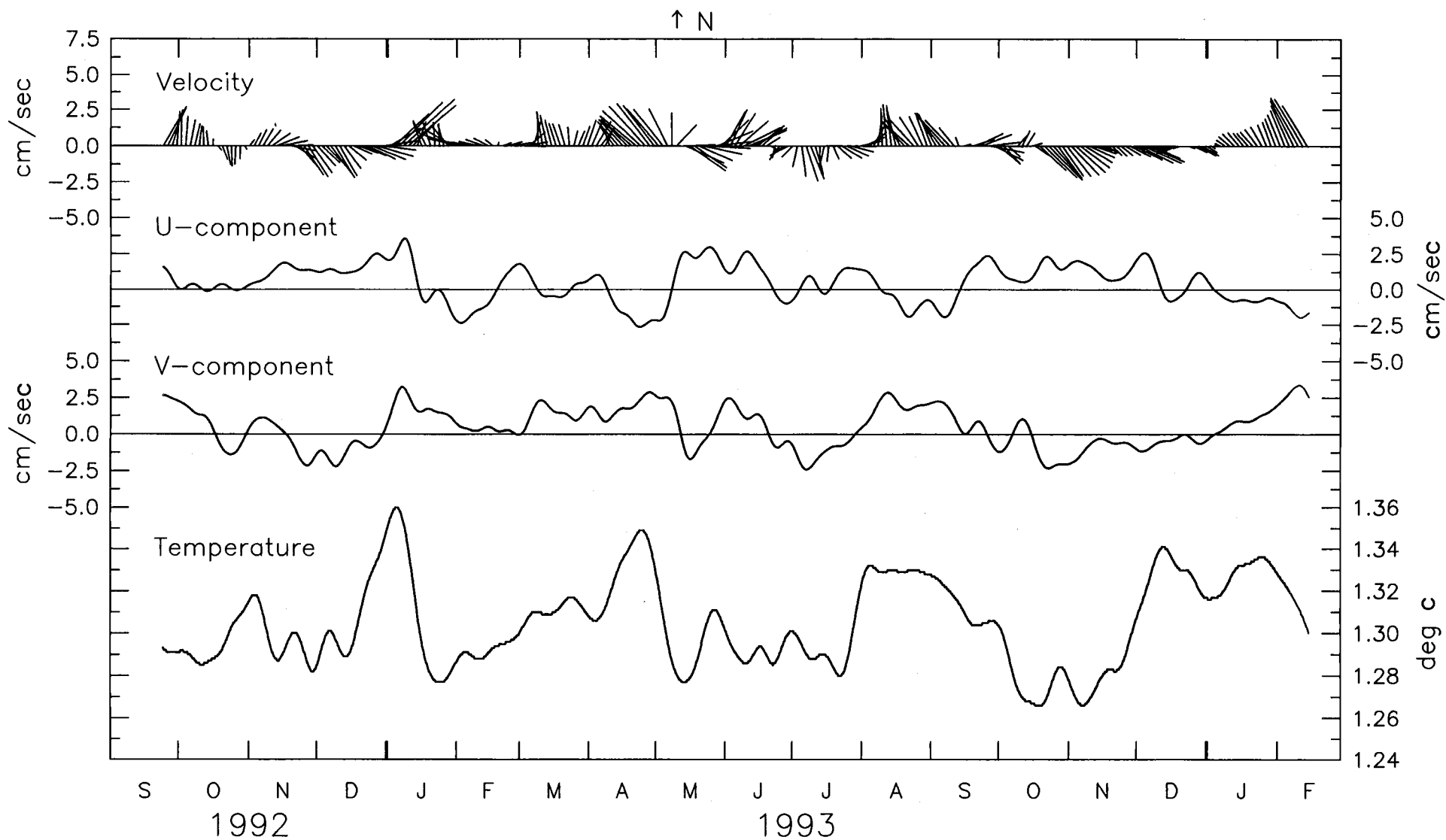




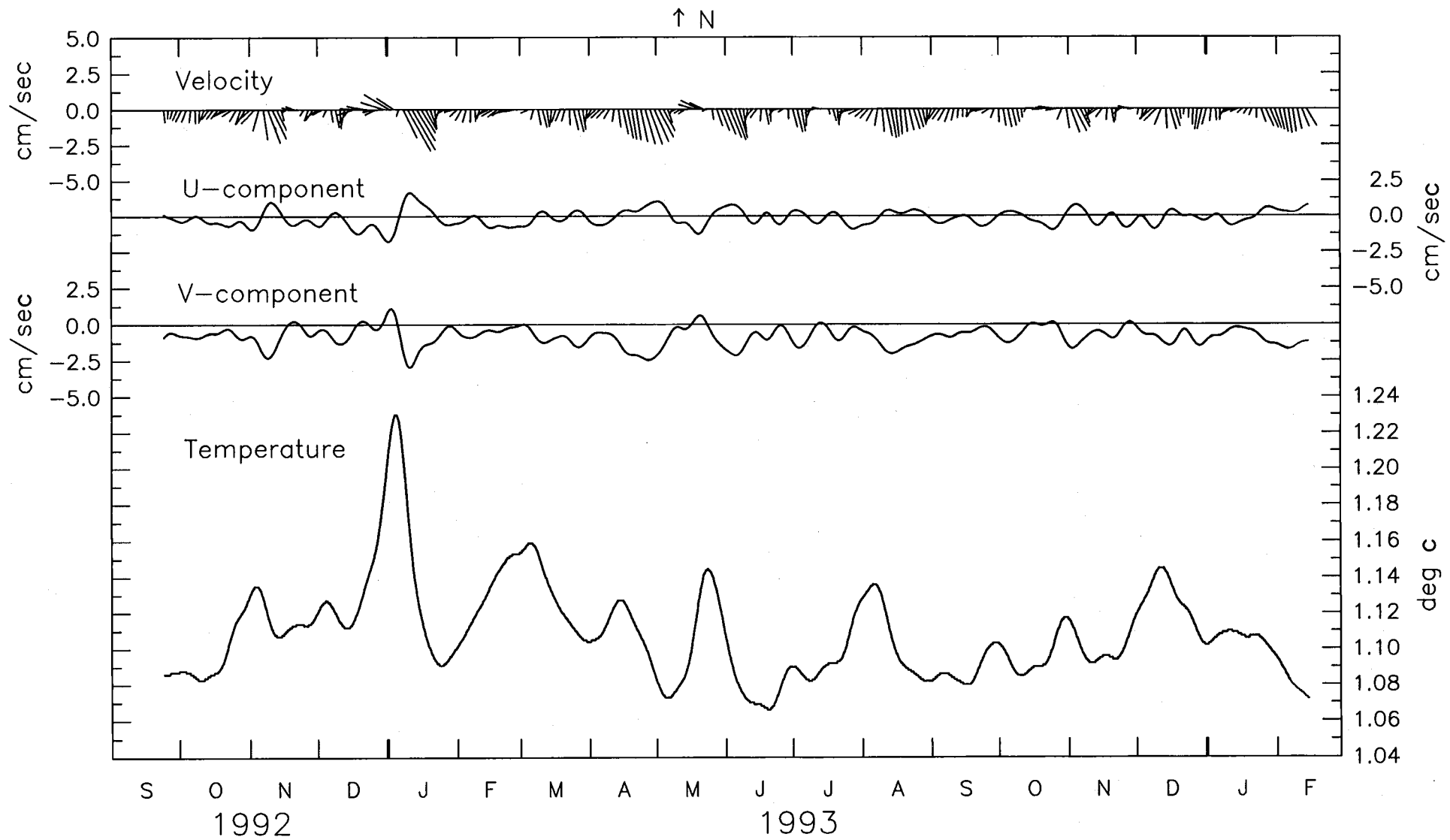
2970m at SAMOA 6. Low-Passed Data.



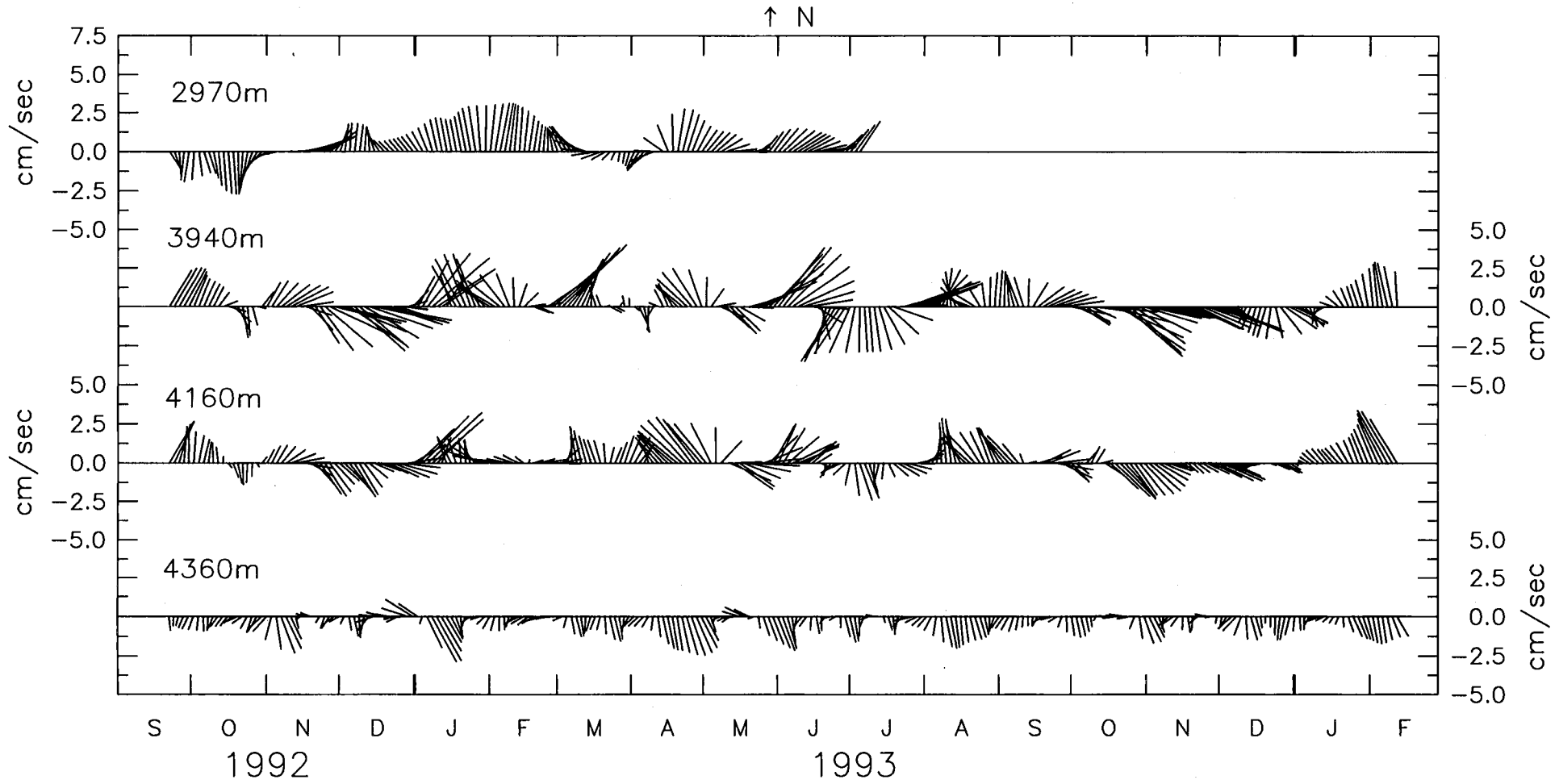
3940m at SAMOA 6. Low-Passed Data.



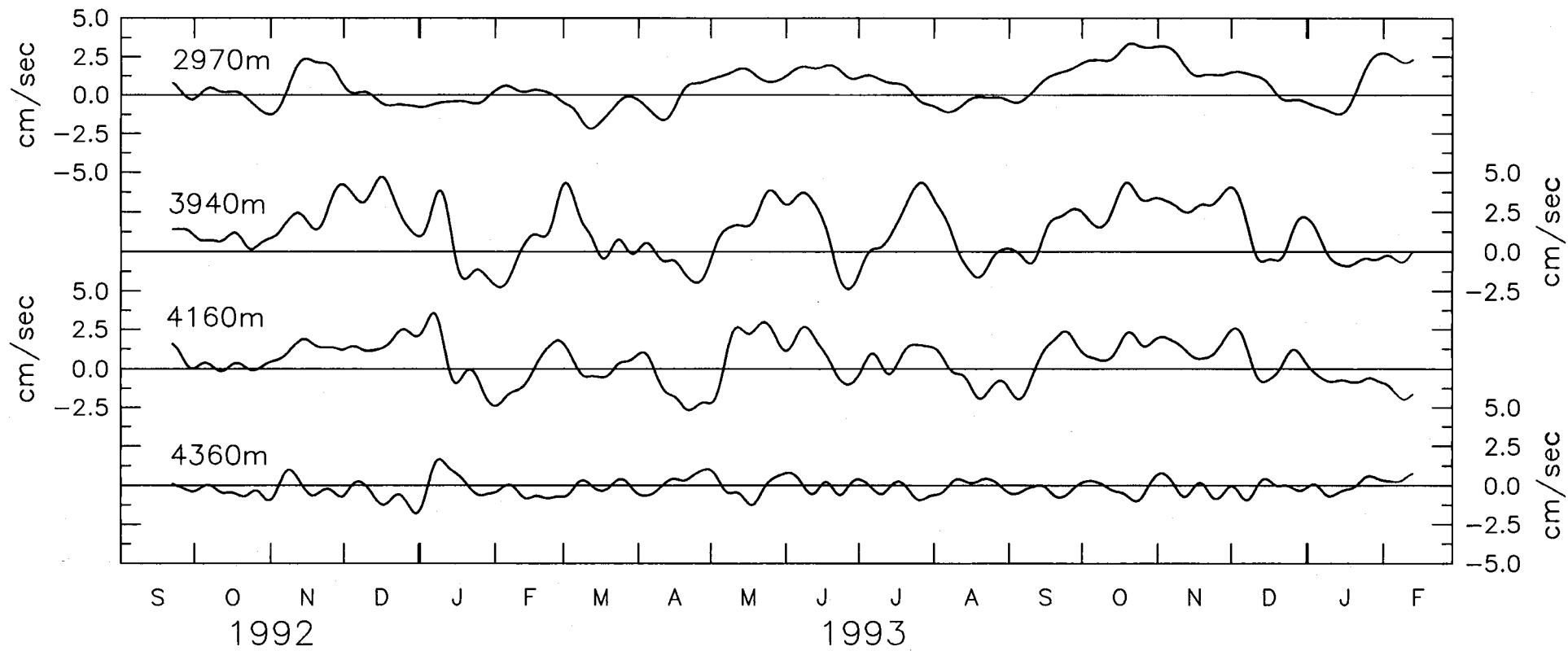
4160m at SAMOA 6. Low-Passed Data.



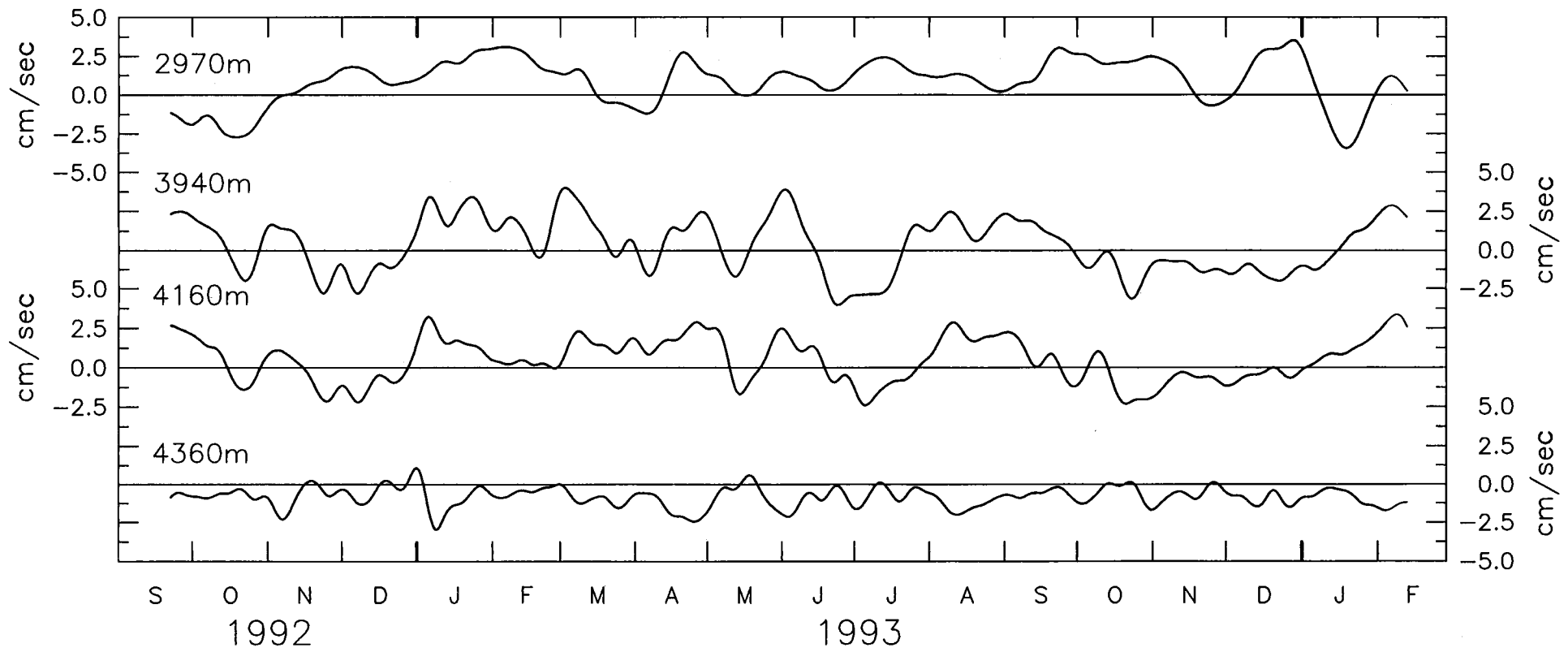
4360m at SAMOA 6. Low-Passed Data.



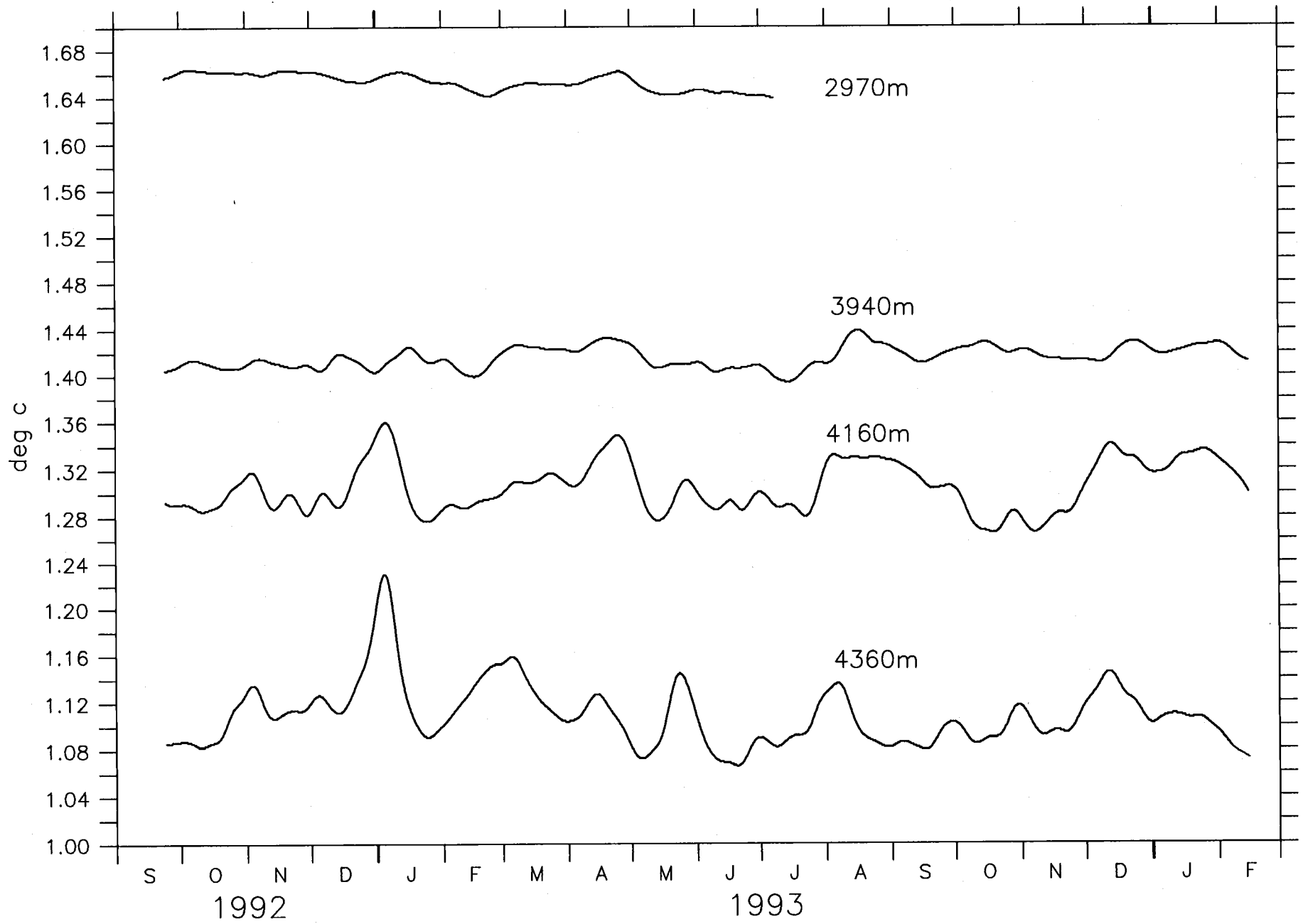
Velocity at SAMOA 6. Low-Passed Data.



U-Component at SAMOA 6. Low-Passed Data.



V-Component at SAMOA 6. Low-Passed Data.



Temperature at SAMOA 6. Low-Passed Data.