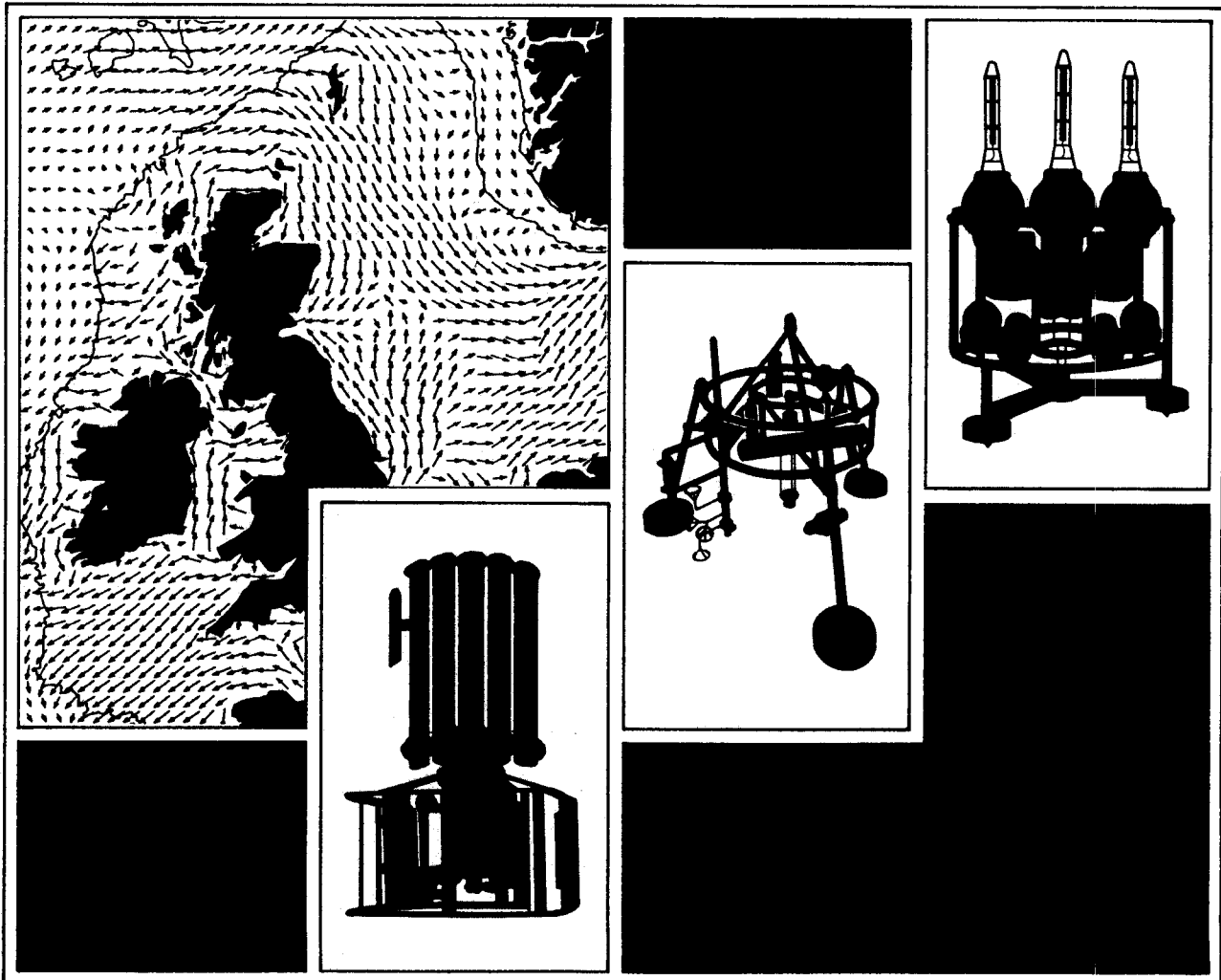


Current Profile and Sea-bed Pressure and Temperature Records from the Northern North Sea Challenger Cruises 84 and 85

September 1991 – November 1991

PJ Knight, M Wilkinson and P Glorioso

Report No 28 1993



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PROUDMAN OCEANOGRAPHIC LABORATORY

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DATA RESULTS - SITE A

<i>Site</i>	<i>Rig No.</i>	<i>Meter No.</i>	
AA1	00488	0006	40/42
AA1	00488	0444	51
AA2	00510	0006	53/54
AA2	00510	0444	72
AA3	00516	0006	75/76
AF1	00493	1644	90/91
AF1	00493	0604	97
AF1	00493	0704	98
AF1	00493	1307	104
AF2	00512	1644	110/111
AF2	00512	1307	117
AF3	00518	1113	118/119
AF3	00518	1119	121
AF4	00519	1113	123/124
AF4	00519	0604	129
AF4	00519	0704	134
AF4	00519	1119	139
AG	00494	1261	145/146
AG	00494	9632	153
AG	00494	9680	162
AG	00494	7570	171
AH1	00495	0956	181/182
AH1	00495	0958	188
AH2	00520	0716	194/195
AH2	00520	0715	197
AH3	00521	1112	199/200
AH3	00521	1117	205
AI	00496	0002	207/208
AJ	00522	0001	216/217
AK	00497	0394	223/224

DATA RESULTS - SITES F, G, H & I

<i>Site</i>	<i>Rig No.</i>	<i>Meter No.</i>	
FA	00502	0003	243/244
GA	00503	0007	261/262
HA1	00504	0009	276/278
HA1	00504	1038	287
HA2	00513	0009	289/290
HA2	00513	1038	308
HB	00505	1196	312/313
HB	00505	1113	319
HC	00506	1119	326/327
HC	00506	9631	333
HC	00506	9633	334
HC	00506	3277	335
IA1	00507	0001	337/339
IA1	00507	0445	348
IA2	00514	0001	350/351
IA2	00514	0445	369
IB1	00508	1258	373/374
IB1	00508	1263	375
IB2	00515		381
IC	00509	1264	383/384
IC	00509	9959	391
IC	00509	9652	400
IC	00509	0568	409

1 INTRODUCTION

Between 5th September 1991 and 12th November 1991, an experiment was conducted to measure current profiles during the breakdown of the thermocline at a site where the near bed and near surface boundary layers were separated.

The deployment and recovery phases of the experiment were carried out by the RRS Challenger, cruise numbers 91/84 and 91/85. Included in the experiment were deployments of ; Proudman Oceanographic Laboratory (POL) Acoustic Doppler Current Profilers (DP-ADCP), RD Instruments ADCP's (RD-ADCP), InterOcean S4 Current meters (S4), Aanderaa current meters (AA for a model 5 and AS for a model 7), EG & G Sea Link current meters (VM), VAESAT buoy current meters (VA), Water Level Recorders (WR), and thermistor chains, met. buoy and waverider (not included in this report). Also, during the cruises CTD, SeaSoar and ship ADCP data were obtained and drouged buoys deployed (not included in this report).

This report describes records obtained from five sites where current meters and WR's were deployed. The sites were located all within 25km of 59°40'N 01°00'E, (see Figures 1 and 2). Site A consisted of six moorings in close proximity. These were labelled AA, AF, AG, AH, AI and AK. Sites F and G had single moorings identified by the labels FA and GA. Site H consisted of three moorings labelled HA, HB and HC. Finally, site I consisted of three moorings labelled IA, IB and IC. A summary of the data returned from each site is given in section 2. This is split into four sections, two tables for site A, one for sites F,G & H, and one for site I.

After calibration, statistics were calculated from the data. Also a low pass filter was applied to produce six hourly values which were statistically analysed. Finally, standard current meter plots were produced in order to check data quality and aid in the interpretation of the data.

Data return from the deployments was very good, although one mooring was lost and others suffered damage. The data loss and short records were due to trawling incidents and extreme wind and wave events experienced during the survey. Overall however, good mooring design and meter reliability has given a 88% good data return.

2 SUMMARY OF DEPLOYMENTS

The following information gives an overview of the data processed at the five sites (14 positions) from the C84 and C85 cruises off the Shetland Islands.

2.1 Deployment details for Site A

Site AA (Bottom mounted mooring)						
Mooring No.	Meter Type/No.	Deployed	Recovery	Meter Height (m)	Data Length (days)	Comments
00488	<i>DP</i> 0006	06-SEP-91	14-SEP-91	0.8	7.9	Good data
	<i>WR</i> 0444	06-SEP-91	14-SEP-91	0.8	7.9	Good data
00510	<i>DP</i> 0006	14-SEP-91	28-OCT-91	0.8	44.0	Good data
	<i>WR</i> 0444	14-SEP-91	28-OCT-91	0.8	44.0	Good data
00516	<i>DP</i> 0006	29-OCT-91	07-NOV-91	0.8	8.9	Good data
Site AF (Surface current meter (ETA) mooring)						
				Meter Depth (m)		
00493	<i>S4</i> 1644	06-SEP-91	15-SEP-91	5.0	8.7	Good data
	<i>VM</i> 0604	06-SEP-91	15-SEP-91	7.0	0.0	Meter malfunction
	<i>VM</i> 0704	06-SEP-91	15-SEP-91	12.0	8.8	Good data
	<i>S4</i> 1307	06-SEP-91	15-SEP-91	20.0	8.8	Good data
00512	<i>S4</i> 1644	15-SEP-91	11-OCT-91	5.0	26.0	Good data until movement
	<i>S4</i> 1307	15-SEP-91	11-OCT-91	15.0	0.0	Lost
00518	<i>S4</i> 1113	28-OCT-91	01-NOV-91	5.0	19hours	Burst data
	<i>S4</i> 1119	28-OCT-91	01-NOV-91	15.0	19hours	Burst data
00519	<i>S4</i> 1113	02-NOV-91	06-NOV-91	5.0	3.9	Good data
	<i>VM</i> 0604	02-NOV-91	06-NOV-91	7.0	3.9	Good data
	<i>VM</i> 0704	02-NOV-91	06-NOV-91	12.0	3.9	Good data
	<i>S4</i> 1119	02-NOV-91	06-NOV-91	20.0	3.9	Good data

Deployment details for Site A (continued)

Site AG (Pop-up current meter mooring)						
Mooring No.	Meter Type/No.	Deployed	Recovered	Meter Height (m)	Data Length (days)	Comments
00494	<i>S4</i> 1261	06-SEP-91	07-NOV-91	92.0	62.0	Good data
	<i>AS</i> 9632	06-SEP-91	07-NOV-91	75.0	53.1	Good data
	<i>AS</i> 9680	06-SEP-91	07-NOV-91	50.0	62.0	Good data
	<i>AA</i> 7570	06-SEP-91	07-NOV-91	10.0	55.3	Good data
Site AH (Surface current meter mounted mooring)				Meter Depth (m)		
00495	<i>S4</i> 0956	07-SEP-91	15-SEP-91	2.0	7.7	Good data
	<i>S4</i> 0958	07-SEP-91	15-SEP-91	4.0	7.7	Good data
00520	<i>S4</i> 0716	28-OCT-91	01-NOV-91	2.0	19hours	Burst data
	<i>S4</i> 0715	28-OCT-91	01-NOV-91	4.0	16hours	Burst data
00521	<i>S4</i> 1112	02-NOV-91	07-NOV-91	2.0	4.8	Good data
	<i>S4</i> 1117	02-NOV-91	07-NOV-91	4.0	0.0	No data
Site AI (Surface mooring)				Meter Depth (m)		
00496	<i>VA</i> 0002	06-SEP-91	07-NOV-91	2.0	62.1	Good data
Site AJ (Surface mooring)				Meter Depth (m)		
0522	<i>VA</i> 0001	28-OCT-91	08-NOV-91	1.0	11.1	Only satellite transmitted data recovered
Site AK (Bottom mounted mooring)				Meter Depth (m)		
00497	<i>RD</i> 0394	06-SEP-91	07-NOV-91	2.0	61.9	Good data

2.2 Deployment details for Sites F, G & H

Site FA (Bottom mounted mooring)						
Mooring No.	Meter Type/No.	Deployed	Recovered	Meter Height (m)	Data length (days)	Comments
00502	<i>DP</i> 0003	14-SEP-91	24-OCT-91	0.8	39.0	Good data until trawled
Site GA (Bottom mounted mooring)				Meter Height (m)		
00503	<i>DP</i> 0007	14-SEP-91	18-OCT-91	0.8	33.2	Good data
Site HA (Bottom mounted mooring)				Meter Height (m)		
00504	<i>DP</i> 0009	07-SEP-91	14-SEP-91	0.8	6.8	Good data
	<i>WR</i> 1038	07-SEP-91	14-SEP-91	0.8	6.9	Good data
00513	<i>DP</i> 0009	14-SEP-91	02-NOV-91	0.8	47.5	Timing errors
	<i>WR</i> 1038	14-SEP-91	02-NOV-91	0.8	48.5	Good data
Site HB (Surface current meter (ETA) mooring)				Meter Height (m)		
00505	<i>S4</i> 1196	07-SEP-91	15-SEP-91	5.0	7.4	Good data until trawled
	<i>S4</i> 1113	07-SEP-91	15-SEP-91	15.0	7.4	Good data until trawled
Site HC (Pop-up current meter mooring)				Meter Height (m)		
00506	<i>S4</i> 1119	07-SEP-91	15-SEP-91	102.0	7.4	Good data until trawled
	<i>AS</i> 9631	07-SEP-91	15-SEP-91	85.0	0.0	Corrupted data
	<i>AS</i> 9633	07-SEP-91		50.0	0.0	Lost
	<i>AA</i> 3277	07-SEP-91	15-SEP-91	10.0	0.0	Corrupted data

2.3 Deployment details for Site I

Site IA (Bottom mounted mooring)						
Mooring No.	Meter Type/No.	Deployed	Recovery	Meter Height (m)	Data Length	Comments
00507	<i>DP</i> 0001	07-SEP-91	14-SEP-91	0.8	7.3	Good data
	<i>WR</i> 0445	07-SEP-91	14-SEP-91	0.8	7.3	Good data
00514	<i>DP</i> 0001	14-SEP-91	01-NOV-91	0.8	44.8	Good data
	<i>WR</i> 0445	14-SEP-91	01-NOV-91	0.8	47.8	Good data
Site IB (Surface current meter (ETA) mooring)				Meter Depth (m)		
00508	<i>S4</i> 1258	07-SEP-91	16-SEP-91	5.0	0.0	No data
	<i>S4</i> 1263	07-SEP-91	16-SEP-91	15.0	8.8	Good data
00515	<i>S4</i> 1258	16-SEP-91		5.0	0.0	Lost
	<i>S4</i> 1263	16-SEP-91		15.0	0.0	Lost
Site IC (Pop-up current meter mooring)				Meter Height (m)		
00509	<i>S4</i> 1264	07-SEP-91	08-NOV-91	85.0	54.9	Good data
	<i>AS</i> 9959	07-SEP-91	08-NOV-91	70.0	49.1	Temperature spikes in data
	<i>AS</i> 9652	07-SEP-91	08-NOV-91	50.0	54.7	Good data
	<i>AA</i> 0568	07-SEP-91	08-NOV-91	10.0	61.7	Good data

3 RIG SYSTEM DESCRIPTION

The moorings were deployed in an area east of the Shetland Isles, within 25km distance of 59°40'N 1°00'E, (see Figures 1 and 2). All three types of mooring system suffered from trawling and extreme wind and wave conditions. However, the overall recovery rate was 88%, with only one total loss and one partial loss (see Section 2 for details). Refer to Howarth (1992) and Harsion (1993) RRS Challenger cruise reports for a full description of the rigs used. Additional deployments at the various sites are indicated by a bracketed number after the site letters. Also, moorings in close proximity to each other have the same first letter of the two letter label.

3.1 Bottom mounted mooring

Bottom mounted moorings were deployed at sites AA(3), AK(1), FA(1), GA(1), HA(2) and IA(2). Schematic diagrams of this type of mooring are given in Figures 3(a) & (g). Each mooring consisted of a frame containing ballast, an ADCP (DP or RD types), buoyancy spheres and an acoustic release. A WR was also fitted on some deployments. On recovery, the release was triggered by sending acoustic signals from the ship which enabled the frame to separate from the ballast. The frame under its own buoyancy, then rose to the surface ready for picking up. All moorings of this type were recovered. One frame was trawled.

3.2 Surface current meter moorings

Surface current meter moorings were deployed at sites AF(4), AH(3), AI(1), AJ(1), HB(1) and IB(2). Schematic diagrams of this type of mooring are given in Figures 3(b), (c), (e), (f), (h) & (k). Each mooring consisted of a buoy at the surface which gave free vertical movement during the tidal cycle. It was fixed in position by bottom mounted ballast, connected to the surface buoy via a sub-surface buoy and a slack rope. One mooring of this type was lost, as well as one meter from another rig. A surface buoy and one meter were recovered from one of two moorings which broke free. One mooring was trawled.

3.3 Pop-up current meter moorings

Pop-up current meter moorings were deployed at sites AG(1), HC(1) and IC(1). Schematic diagrams of this type of mooring are given in Figures 3(d), (i) & (j). Each consisted of a string of current meters anchored by ballast and kept upright by a sub-surface buoy. A release mechanism, as mentioned in Section 3.1, was used for recovery. No moorings of this type were lost, although 3 meters of a 4 meter rig returned zero data. One mooring was trawled.

4 DATA RECORDING METERS

4.1 DP-ADCP (POL 250kHz version)

The ADCP measures the vertical profile of currents in bins from the sea bed to the surface. The ADCP sends out short acoustic pulses, typically lasting a few thousandths of a second, at a fixed frequency. The acoustic pulses, transmitted in two narrow beams at right angles to each other and 30° to the vertical, are reflected back to the ADCP by small particles which move with the water, such as plankton or sediment. The frequency of the reflected signal is changed by a small amount proportional to the current speed, the Doppler shift. By measuring the frequency change along the two beams, the speed and direction of the currents can be determined. The currents at different heights through the water column are obtained by chopping the return signal into segments by time.

The DP-ADCP 250kHz has a range of 100 m and can measure up to 24 bins. However, the technique has some limitations which reduce the amount of good data return. The bins nearest to the transducers may give erroneous data due to the time taken for transients to decay, whereas the far end bins may be affected by interference from side lobes reflected from the sea surface. Hence, the good data return bins are usually between 15% of depth from the surface and 10% of depth from the bottom.

With previous deployments of the DP-ADCP (Knight et al, 1992) a reduction in velocity amplitude with increasing distance from the transducers was experienced. Therefore care must be taken when comparing upper bin results with other current meters or model output. The phase of the data is not affected by this problem.

DP-ADCP Specification

<i>Speed</i>	Range	0 to 350 cm s ⁻¹
	Accuracy	±4 cm s ⁻¹
<i>Direction</i>	Refer to Section	7 ANGLE CORRECTION TO ADCP DATA
<i>Tilt</i>	Two tilts measured at 90° to each other	

<i>Set up</i>	Sample period	10 minutes
	Number of bins (cells)	16
	Number of pings in ensemble	275
	First bin height/Bin separation	13.4 m / 5.67 m
	Bin heights (range) (1-16)	13.4 m / 19.0 m / 24.7 m / 30.4 m / 36.1 m / 41.7 m / 47.4 m / 53.1 m / 58.7 m / 64.4 m / 70.1 m / 75.8 m / 81.4 m / 87.1 m / 92.8 m / 98.4 m

4.2 RD-ADCP (RDI 153kHz version)

The RD-ADCP measures currents by the same method as outlined for the DP-ADCP's. However it uses four beams to measure currents instead of two. These extra beams can be used to calculate the vertical velocity and check data quality.

RD-ADCP Specification

<i>Speed</i>	Range	0 to 500 cm s ⁻¹
	Accuracy	±0.8 cm s ⁻¹
<i>Direction</i>	Range	0 to 360°
	Accuracy	± 2°
<i>Tilt</i>	Two tilts measured at 90° to each other	
<i>Set up</i>	Sample period	10 minutes
	Number of bins (cells)	18
	Number of pings in ensemble	240
	First bin height/Bin separation	12.0 m / 8.0 m
	Bin heights (range) (1-18)	12.0 m / 20.0 m / 28.0 m / 36.0 m / 44.0 m / 52.0 m / 60.0 m / 68.0 m / 76.0 m / 84.0 m / 92.0 m / 100.0 m / 108.0 m / 116.0 m / 124.0 m / 132.0 m / 140.0 m / 148.0 m

4.3 S4 InterOcean current meter

The InterOcean Systems model S4 electromagnetic current meter is a self-contained 0.25 m diameter sphere, with no protruding sensors. It measures the current by creating a magnetic field and sensing the voltage induced in two orthogonal directions by the movement of sea water, an electrical conductor, through the field. This information combined with the Flux-Gate compass gives the North and East components of velocity computed. The S4 was used in vector averaging mode throughout the survey. It sampled every $\frac{1}{2}$ second and averaged the vectors over a 10 minute recording interval. However in burst mode it sampled every second for 10 minutes every hour.

S4 Specification

Speed	Range	0 to 350 cm s ⁻¹
	Accuracy	± 2 cm s ⁻¹
Direction	Range	0 360°
	Accuracy	$\pm 2^\circ$

4.4 VAESAT current meter

The VAESAT current meter consists of a wave following surface buoy beneath which a toroidal electro-magnetic sensor is fixed at 1 or 2 metres on a pole. The VAESAT did not have a meter number therefore the sensor depth was used to indicate the meter number. It was set up to record every 3 minutes for the first deployment and every minute for the second deployment. Data was stored on an internal logger as well as a subset being transmitted (via satellite) back to land. The satellite current meter data was from a 5 minute average sent every 30 minutes. It has a specification similar to the S4 current meters.

4.5 EG & G Sea-Link VMCM current meter

The EG & G Sea-Link VMCM current meter measures currents using two impellers at 90° to each other. The vector averaged east and north components are calculated from the compass bearings.

VMCM Specification

Speed	Range	0 to 350 cm s ⁻¹
	Accuracy	± 2 cm s ⁻¹
Direction	Range	0 360°
	Accuracy	$\pm 5^\circ$

4.6 Aanderaa RCM4 and RCM7 current meters

The RCM4 uses a Savonius rotor to measure speed with one direction every sample. The RCM7 uses a paddle wheel to measure speed with directions sampled every 12 seconds and averaged every sample interval. Temperature is measured by a thermistor fitted into a stud extending into the water. Conductivity is measured by an electrodeless induction conductivity cell and pressure is measured by a sensor consisting of a potentiometer driven by a Bourbon tube. Both types of meter used similar sensors, but differed in data storage. The RCM4 used 6mm width reel magnetic tape and the RCM7 used solid state memory.

RCM 4/7 Specification

Speed	Range	2 to 250 cm s ⁻¹
	Accuracy	±2 cm s ⁻¹
Direction	Range	0 to 360°
	Accuracy	±5°
Temperature	Range	-2.46 to 21.4°C
	Accuracy	±0.05°C
Conductivity	Range	21 to 51 mmho cm ⁻¹
	Accuracy	±0.0025 mmho cm ⁻¹
Pressure	Range	0 to 100 PSI or 0 to 200 PSI
	Accuracy	±1%

4.7 Water Level Recorder

The Aanderaa WR Model 5 is a self recording high precision instrument for recording water level by measurement of hydrostatic pressure. The standard range is 270 metres, corresponding to a sensor range of 0-400 PSI (0-27.2 bars). The effects due to waves are averaged over a 40 second integration time. Temperature is obtained from a thermistor fitted on the top plate of the meter and extending into the water.

WR sensor specifications

Pressure	Range	0.0 to 27.2 bars (0-400 PSI)
	Accuracy	0.01% of pressure
Temperature	Range	0.0 to 30.0°C
	Accuracy	±0.03°C

Conversion from bars to meters of water

The WR has a sensitive pressure sensor which produces pressure in bars after calibration. The pressure measured includes water column pressure and atmospheric pressure. In order to produce a value for meters of water above the sensor instead of bars the atmospheric pressure must be subtracted from the calibrated value of pressure and the result multiplied by 9.94.

$$p = \rho * g * h$$

hence $h = 9.94 m$

where	p	Pressure at 1 bar (10000 Pascals)
	ρ	Water density assumed to be 1025 kg/m ³
	g	Gravitational acceleration (9.81m/s)
	h	Depth of water equivalent to 1 bar pressure

$$P = (P_{total} - P_{atm}) * 9.94$$

where	P	Pressure in metres of water
	P_{total}	Total recorded pressure in bars
	P_{atm}	Atmospheric pressure in bars

5 DATA PROCESSING STEPS

5.1 Raw data transfer

The data from the current meters and WR's were brought back to POL on standard magnetic cassette and 3½ inch disc formats. The data were then translated and stored on an IBM/PS2, and then transferred to a Silicon Graphics UNIX workstation via PC-NFS on the IBM/PS2 using DOS to UNIX conversion utilities.

5.2 Processing stage

Two software systems, CALT and CALP, were developed at POL for quick and efficient processing and display of times series data, such as current meter data. The CALT system calibrates and checks for errors and the CALP system produces standard graphical output, filtered and non-filtered statistical analyses. Before calibrating the data, all the information required for processing were input into an ORACLE data base. All the information could then be accessed easily with FORTRAN programs. Also, all raw data was screened for obvious spikes using PV-WAVE command language software.

Processing was then initiated by CALTU, which calls a suite of FORTRAN programs for error checking and producing calibrated data. Any errors found from the initial run were edited out of the raw data, and CALTU run again. After successful completion of the CALTU stage another suite of FORTRAN programs, initiated by CALPT/DOPT, were used to produce the output contained in this report. The types of plot obtained, details of filtering and statistics, are explained in more detail in the following sections.

Tidal analysis was carried out using the standard POL package, which was adapted to use current meter data. It was initiated by TITAN, which calls the suite of FORTRAN programs needed for the analysis. The results are not included in this report, although they were used in connection with the DP-ADCP angle correction. (Refer to Section 7)

6 DETAILS OF STATISTICS AND FILTERING

6.1 Simple statistics

A simple statistical analysis was carried out on each calibrated data set. The following statistics were calculated :-

- (1) Mean, variance and standard deviation of the East and North components of velocity.
- (2) The mean vector speed and direction were calculated from the above statistics.
- (3) The maximum ten and minimum ten Northings and Eastings, and the top speeds.

6.2 Variance ellipse statistics

Statistical analysis was also carried out on the current ellipse, which can be graphically represented by a scatter plot. The following statistics were calculated :-

- (1) The maximum and minimum variances and their ratio (minimum/maximum). If the ratio is close to 1, the currents have no preferred direction, whilst if it is close to zero, the flow is rectilinear.
- (2) The direction associated with the maximum and minimum variance, in the range of -180° to $+180^\circ$.
- (3) The total variance which equals the sum of the North and East component variances or the sum of the maximum and minimum variances.
- (4) The average direction for each half of the ellipse, related to the directions of maximum variance. If these directions differ by 180° the scatter plot is symmetrical.

6.3 Filtering

The ten minute calibrated data were also low-pass filtered, see Figure 4 which shows the filter's response function, and sub-sampled every 6 hours. Three days of data are lost at the beginning and the end of the record when this filter is applied. The statistical analysis was repeated on the filtered data set. When the data record is less than eight days no filtered statistics or filtered plots are produced.

7 ANGLE CORRECTION TO DP-ADCP DATA

7.1 Direction measurement

Figure 7 shows how Beam 1 and Beam 2 of the DP-ADCP are aligned with respect to the frame and the compass. The compass measures the angle between magnetic North and the frame. The two beams can be converted into East and North components of velocity by using the angle obtained from the compass.

During the Dover Strait Study (Knight et al, 1992) the compasses produced errors due to magnetic interference caused by the frame and ballast; this error depended on the mooring orientation. The compasses used in the DP-ADCP's during this survey also had these types of errors and have therefore been corrected using the same method, which is outlined below.

7.2 Correction procedure

The DP-ADCP data were first processed using the CALT and CALP software. The statistical analysis gave the angle α of maximum variance as shown in Figure 8(a). This angle α was taken to represent the M_2 major axis tidal ellipse angle β shown in Figure 8(b). The compass, although giving incorrect readings of frame angle, was recording direction relative to an unknown fixed position. It was therefore decided to correct the frame angle by adding a correction angle.

The correction angle to be applied to the DP-ADCP's was calculated from the difference between β and α . The angle β of 1.4° was taken from the RD-ADCP ellipse statistics. It was calculated from data obtained from bin(1) of the RD-ADCP located at site A. The angle α was calculated from the initial analysis of bin(1) of the DP-ADCP's. There is a 180° ambiguity in the calculation of α which was resolved by studying the M_2 tidal phase given by the observations.

8 FORMAT OF DATA OUTPUT

All speeds and velocities are in m s^{-1} , directions in degrees true and time in GMT. The results are ordered by mooring number (Refer to Section 2). Each mooring result is made up of mooring information, meter information, and graphical output and statistics (both unfiltered and filtered).

8.1 Mooring information

Each mooring has a page of the following information

Position latitude	: Latitude of deployment
Position longitude	: Longitude of deployment
Water depth(m)	: Depth measured by ship's echo sounder
Deployed on cruise	: Cruise identifier or ship name
Recovered on cruise	: Cruise identifier or ship name
Site name identification	: Additional site identifier
Magnetic deviation	: Taken from charts
Rig deployed on	: Time frame on the bottom
Rig recovered on	: Time release fired on rig
Period of deployment	: Total time of deployment
Comments	: Details regarding mooring

8.2 Meter information

Each meter has a page of the following

Rig number	: Unique POL mooring/rig reference
Meter number	: Four digit current meter number
Frame angle correction	: Correction to ADCP frame angle
Sample interval	: Sampling interval in seconds
Meter height from bottom	: Height in metres
Position of meter on rig	: A for attached to frame
Meter type	: DP for POL ADCP. S4 for S4 current meter. : RD for RDI ADCP. AA for Aanderaa RCM4 current meter : AS for Aanderaa RCM7 current meter. : VM for EG&G Sea link current meter. : VA for VAESAT buoy current meter : WR for Water Level Recorder.
Meter started	: Date and time
Meter stopped	: Date and time
Time of last valid scan	: Used when good data ends before switch off
Period in days on record	: Total time meter switched on
Total number of scans	: Used to check timing
Timing error	: Error in seconds
Comments	: Details regarding meter

8.3 Graphical output

The type of graphical output shown in the report depends on the type of meter. After each description the type of meter that is represented by the plot is noted.

- (1) North and East components of velocity against time. The semi-diurnal nature of the tides can be seen as well as the Spring/Neap cycle in both components of velocity. Types : (DP & RD (8 bins per plot)),(Single DP & RD),(AA, AS, S4, VA & VM).
- (2) Scatter diagrams of North components of velocity against the East components. These show the direction and magnitudes of the currents. This plot is often a good check on the quality of the data, in particular regarding direction and possible problems at low speeds. Types : (AA, AS, S4, VA & VM).
- (3) Histograms of speed and direction. Indicates spread of speeds and directions throughout the deployment period. Types : (AA, AS, S4, VA & VM).
- (4) Stacked filtered stick plot. The filtered data can be displayed in a stick plot in order to see the change of the residual flow with time, and in the vertical. Types : (DP & RD (8 bins per plot)).
- (5) Eulerian progressive vector plot. The nature of the residual flow is emphasised, although the semi-diurnal tides are also apparent. Types : (Single DP & RD), (AA, AS, S4, VA & VM).
- (6) Temperature ($^{\circ}\text{C}$), Salinity (PSU) and Pressure (equivalent metres of water or bars) against time. Type : (AA, AS, WR)

8.4 Statistical output

- (1) Simple statistics of the calibrated data and filtered data. A letter 'f' attached to the file name at the top of the individual statistics indicates results from a filtered data set. Types : (Single DP & RD), (AA, AS, S4, VA & VM).
- (2) Statistics for each bin, giving vector mean speed and direction, maximum and minimum variance, and directions of maximum and minimum variance. Types : (DP(16 bins) & RD(18 bins)).

ACKNOWLEDGEMENTS

The authors would like to thank POL staff for setting up, deploying and recovering the instruments, and Nick Crisp from Deacon Laboratory for supplying the VAESAT calibrated data.

REFERENCES

HARRISON, A.J., 1993

RRS 'Challenger' Cruise 85, 25 October 1991 - 12 November 1991, Proudman Oceanographic Laboratory, Cruise Report No.15, 40pp.

HOWARTH, M.J., 1992

RRS 'Challenger' Cruise 84, 5-20 September 1991, Proudman Oceanographic Laboratory, Cruise Report No.12, 25pp.

KNIGHT, P.J., HOWARTH, M.J., FLATT, D & LOCH, S.G. 1992

Current profile and sea-bed pressure and temperature records. May 1990 - July 1991. Dover Strait. Proudman Oceanographic Laboratory, Report No.22, 234pp.

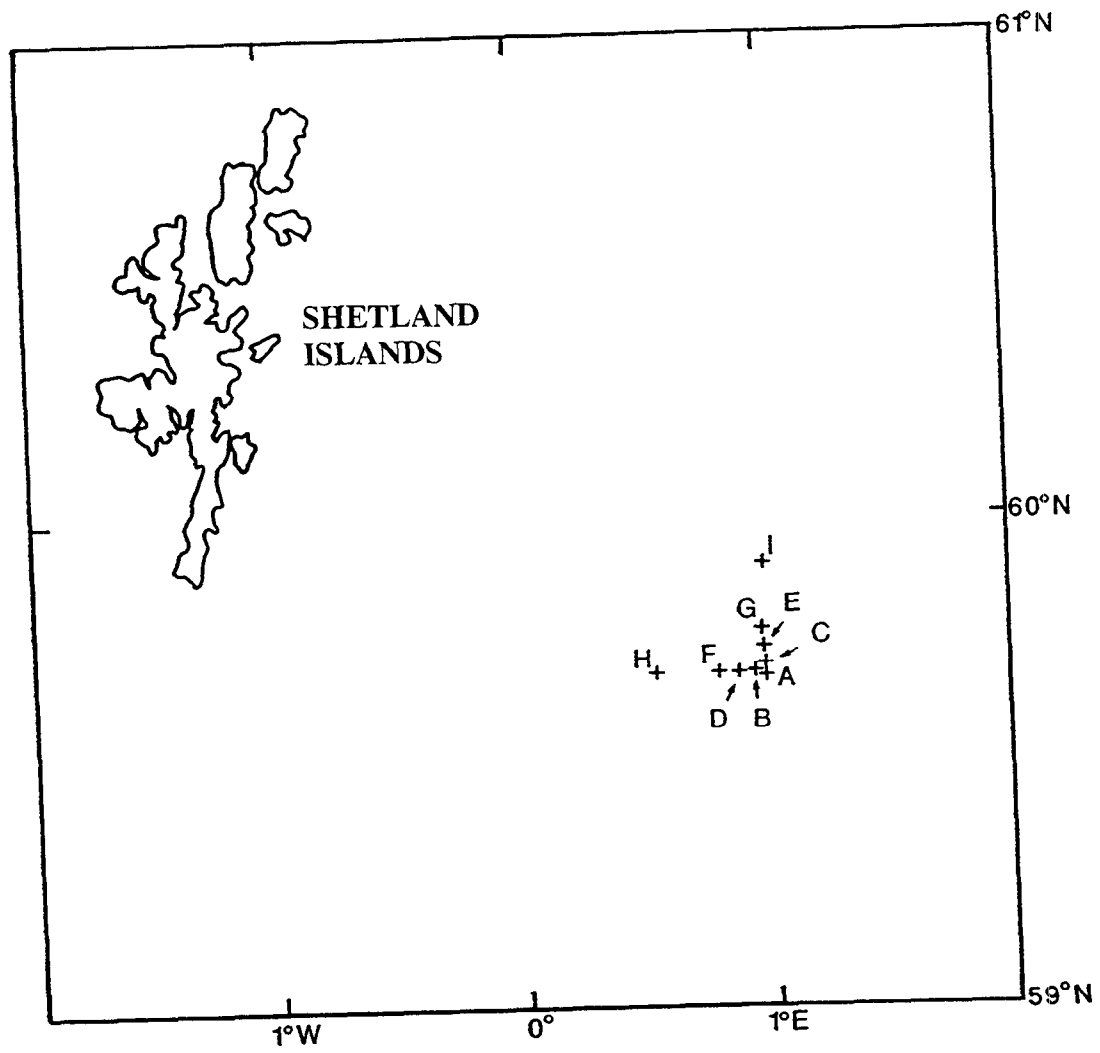


Figure 1. Map of survey area.

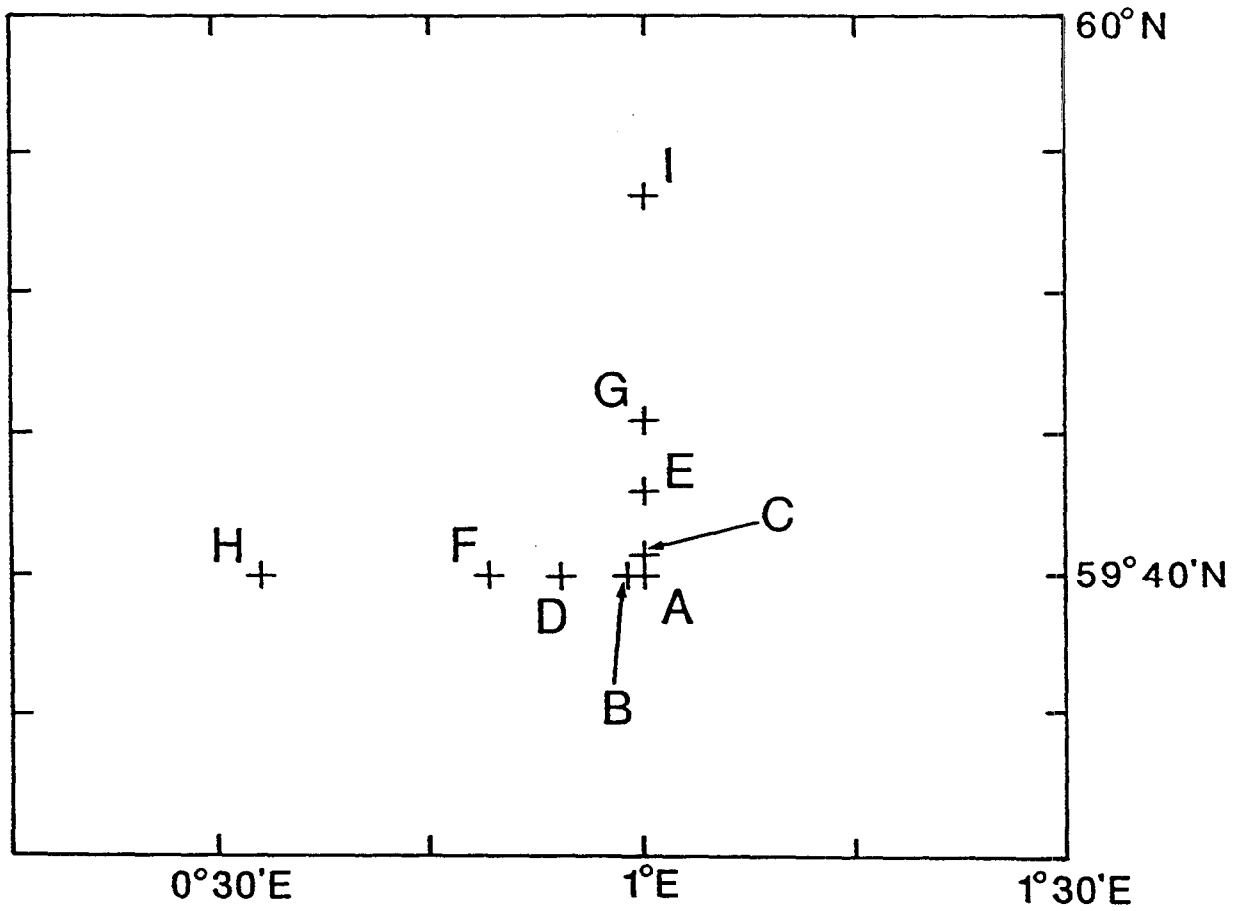


Figure 2. Map of mooring positions.

AA/FA/GA/HA/IA

POL ADCP

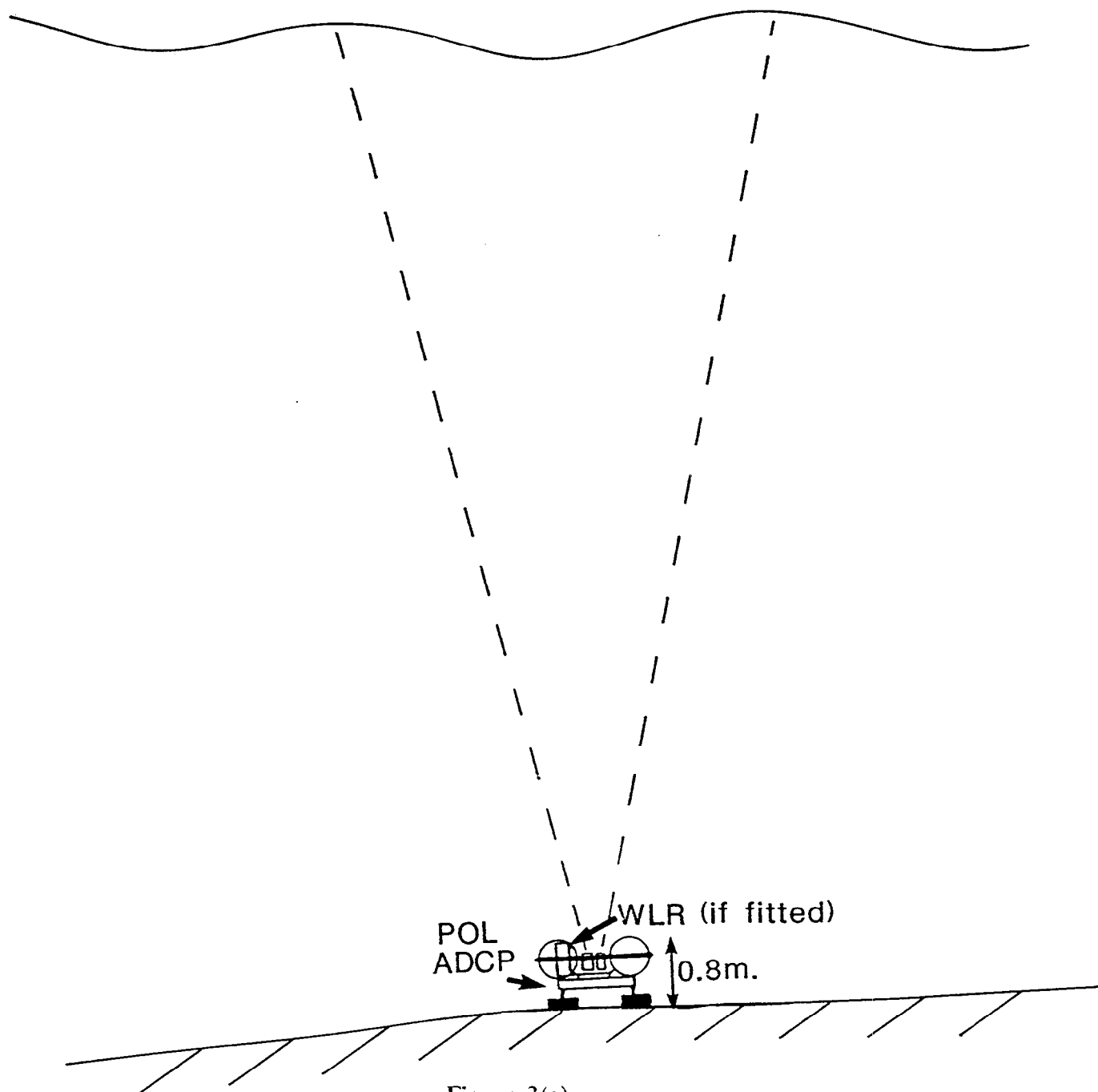


Figure 3(a).

AF

Surface Current Meter (ETA)

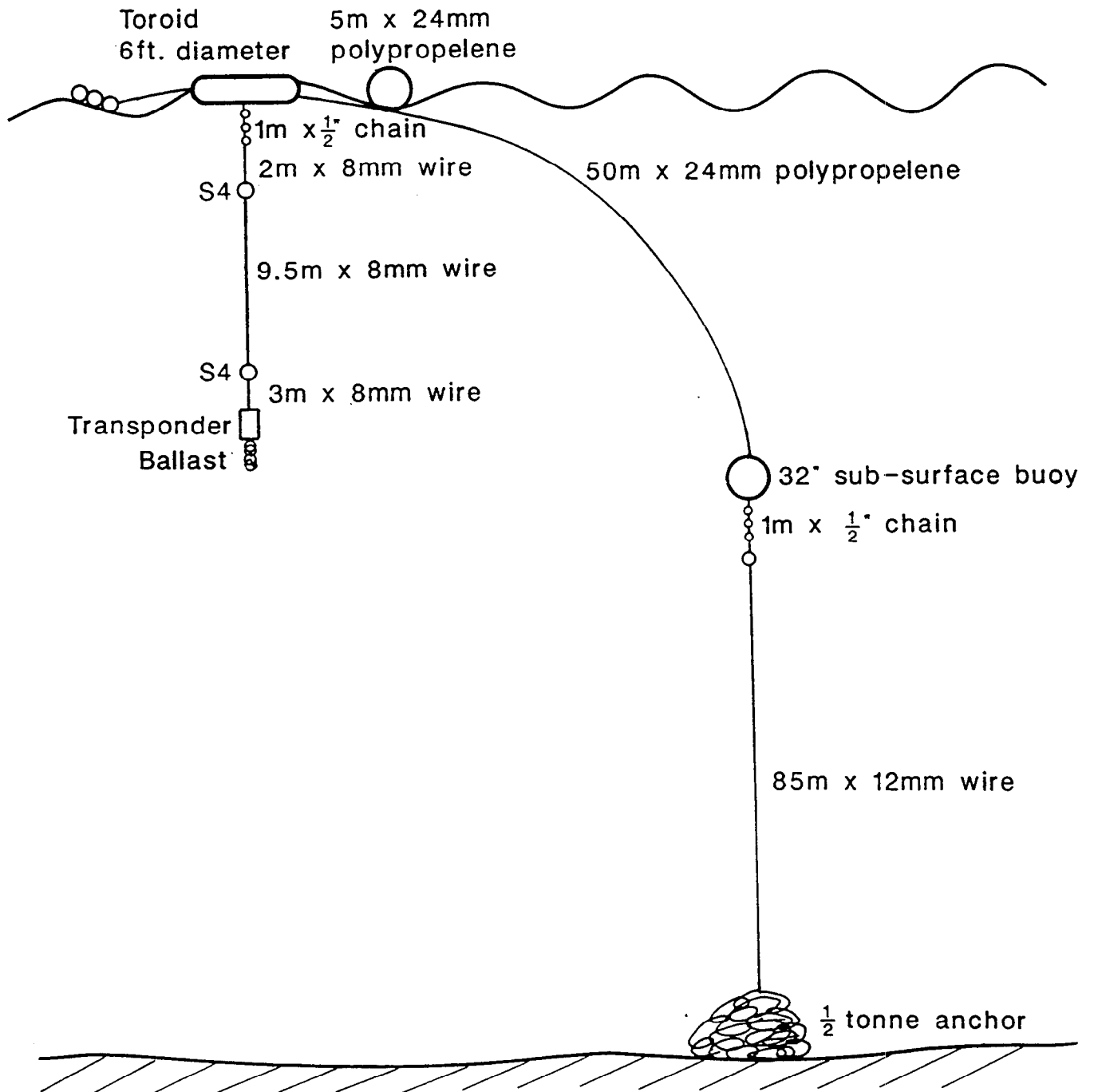


Figure 3(b).

AF

Surface Current Meter (ETA)

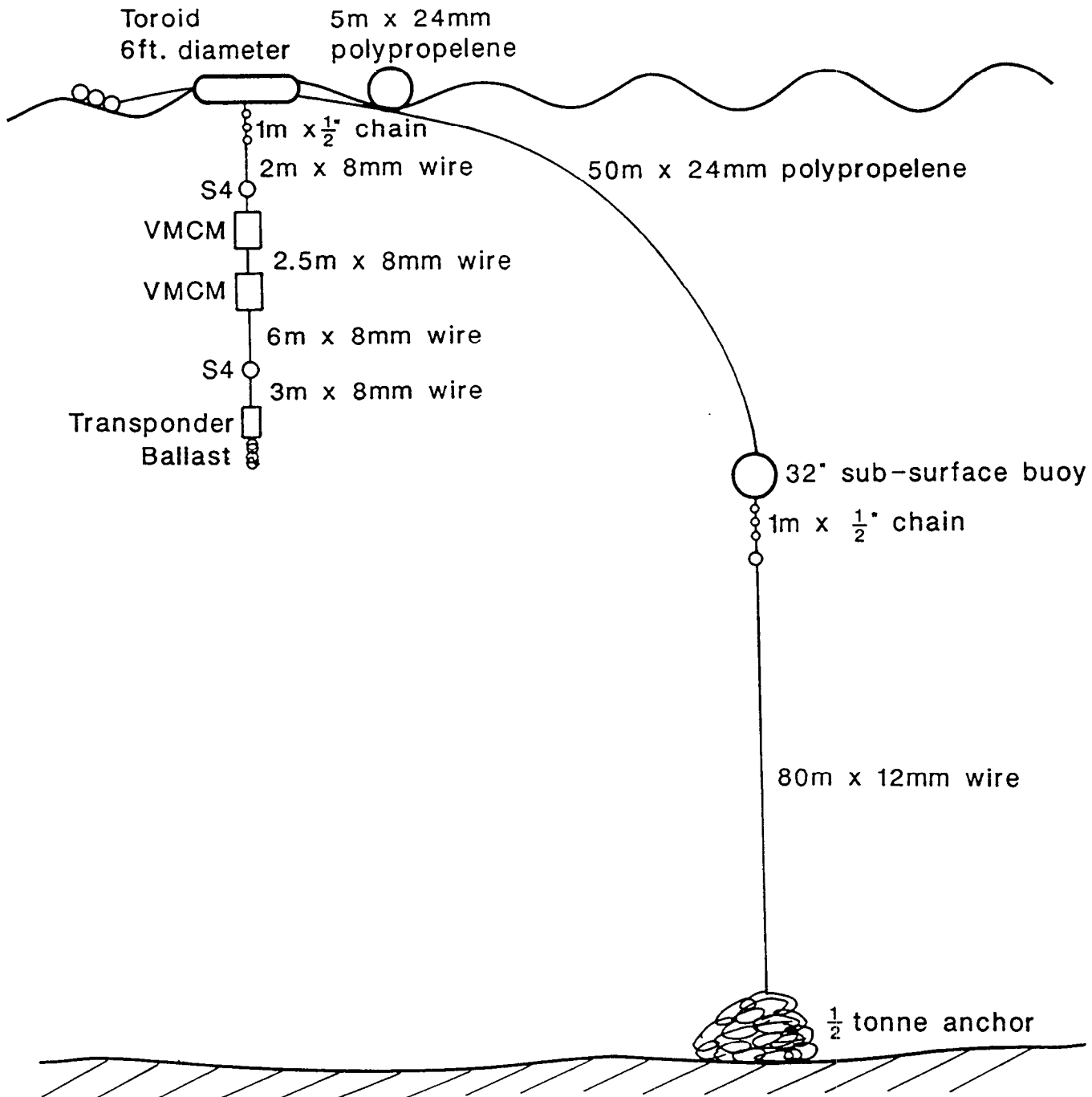


Figure 3(c).

AG

Pop – up Current Meter

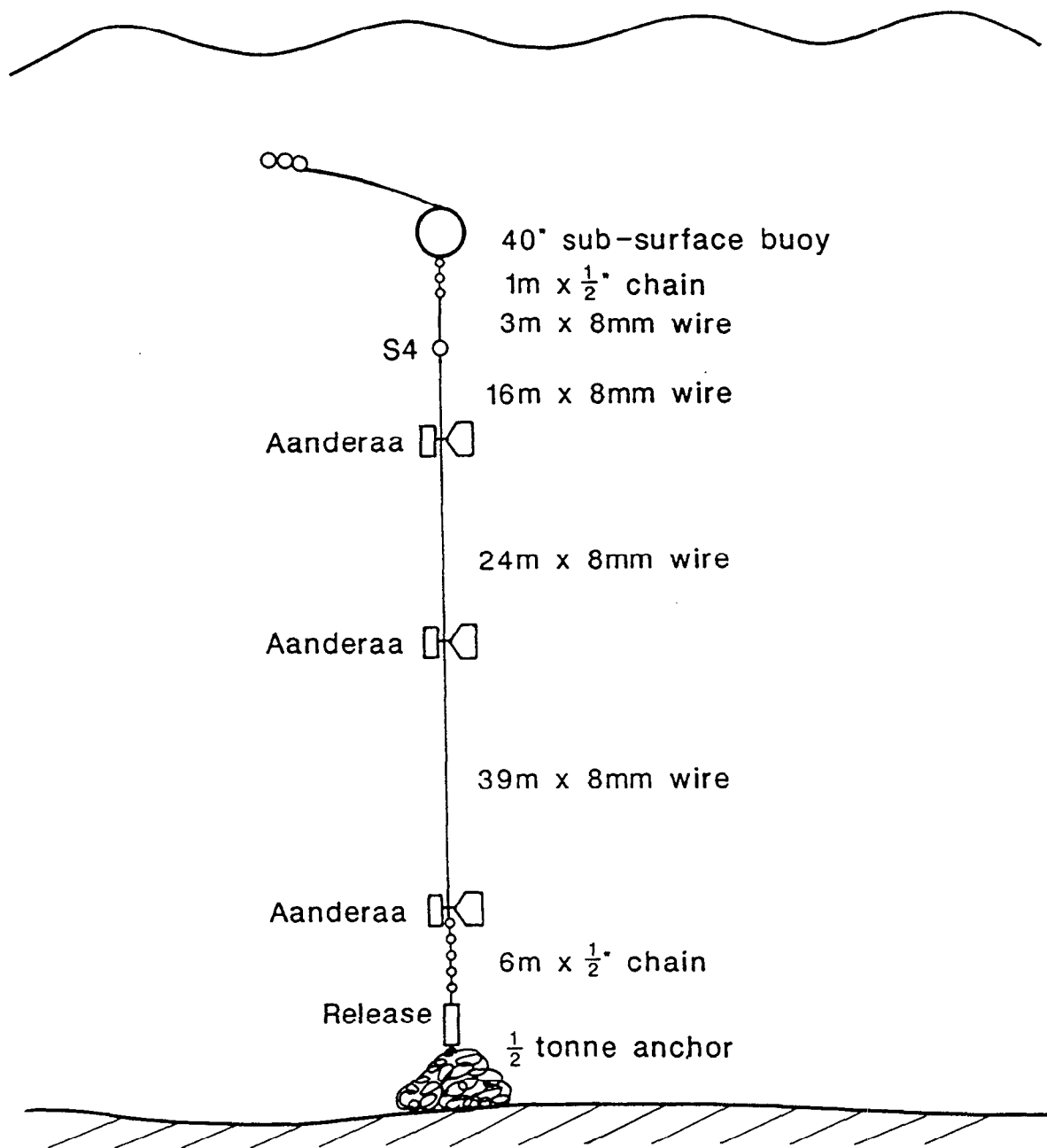


Figure 3(d).

AH

Surface Current Meter (DML)

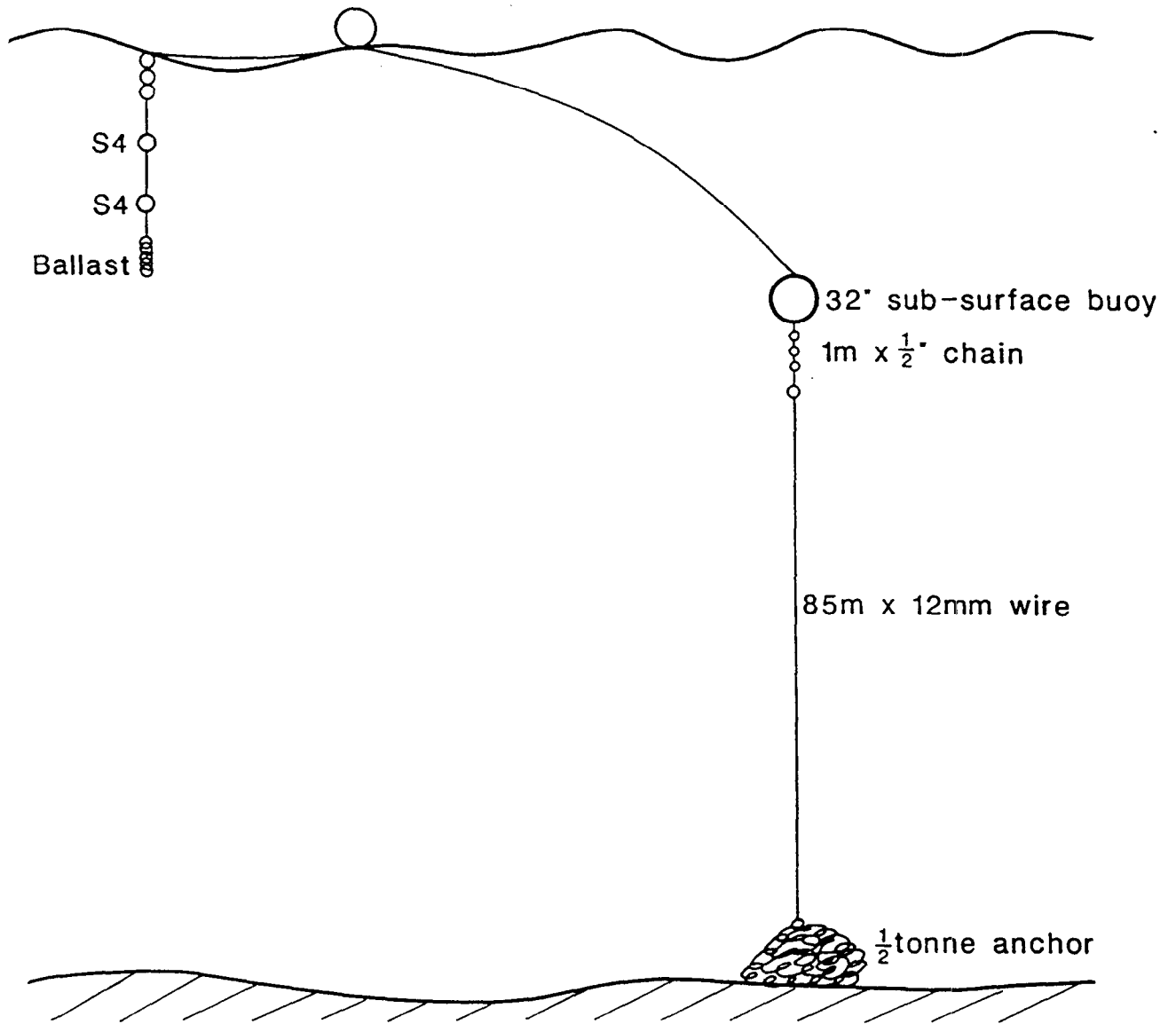


Figure 3(e).

30 AI / AJ

VAESAT

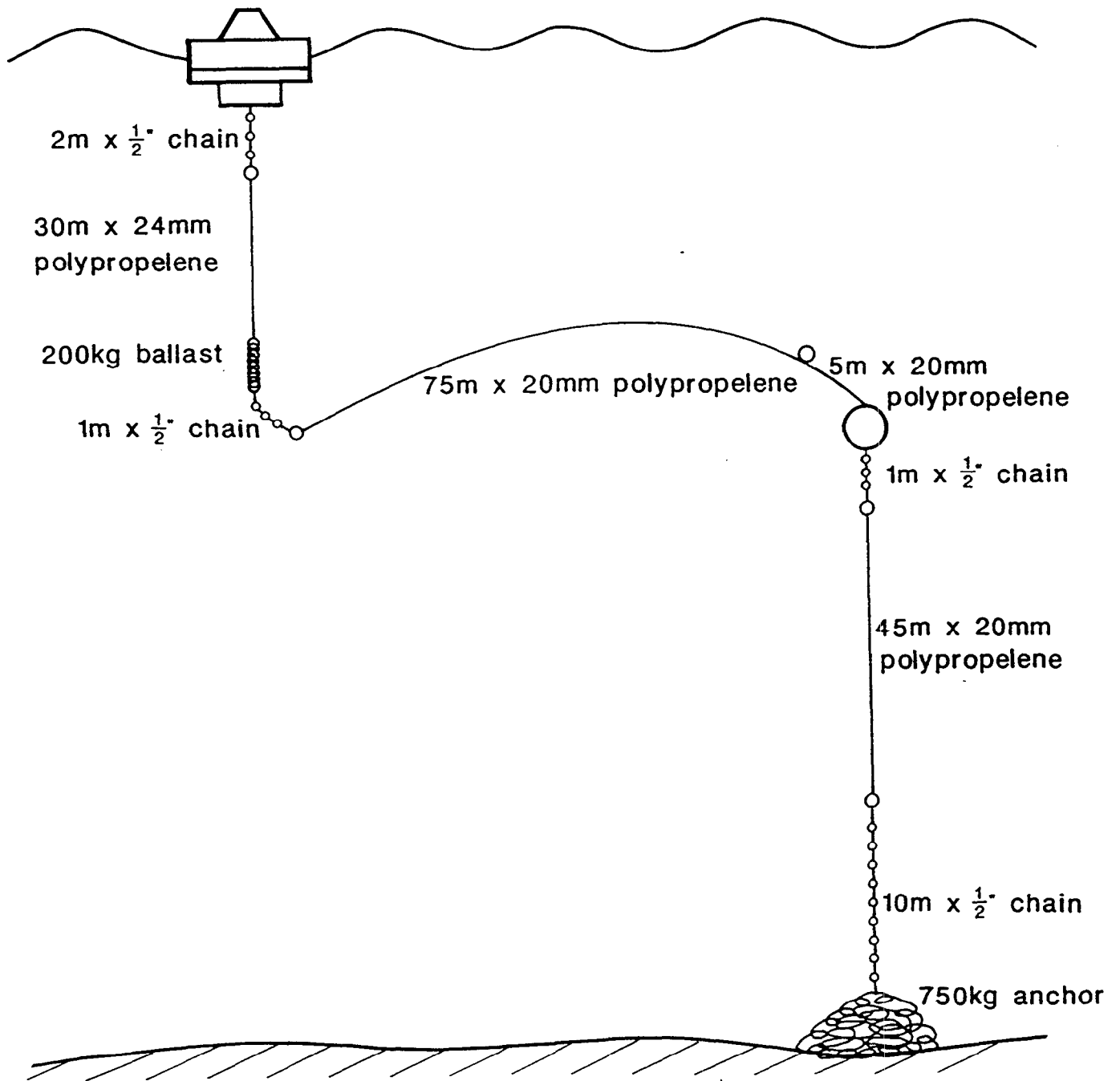


Figure 3(f).

AK

RDI ADCP

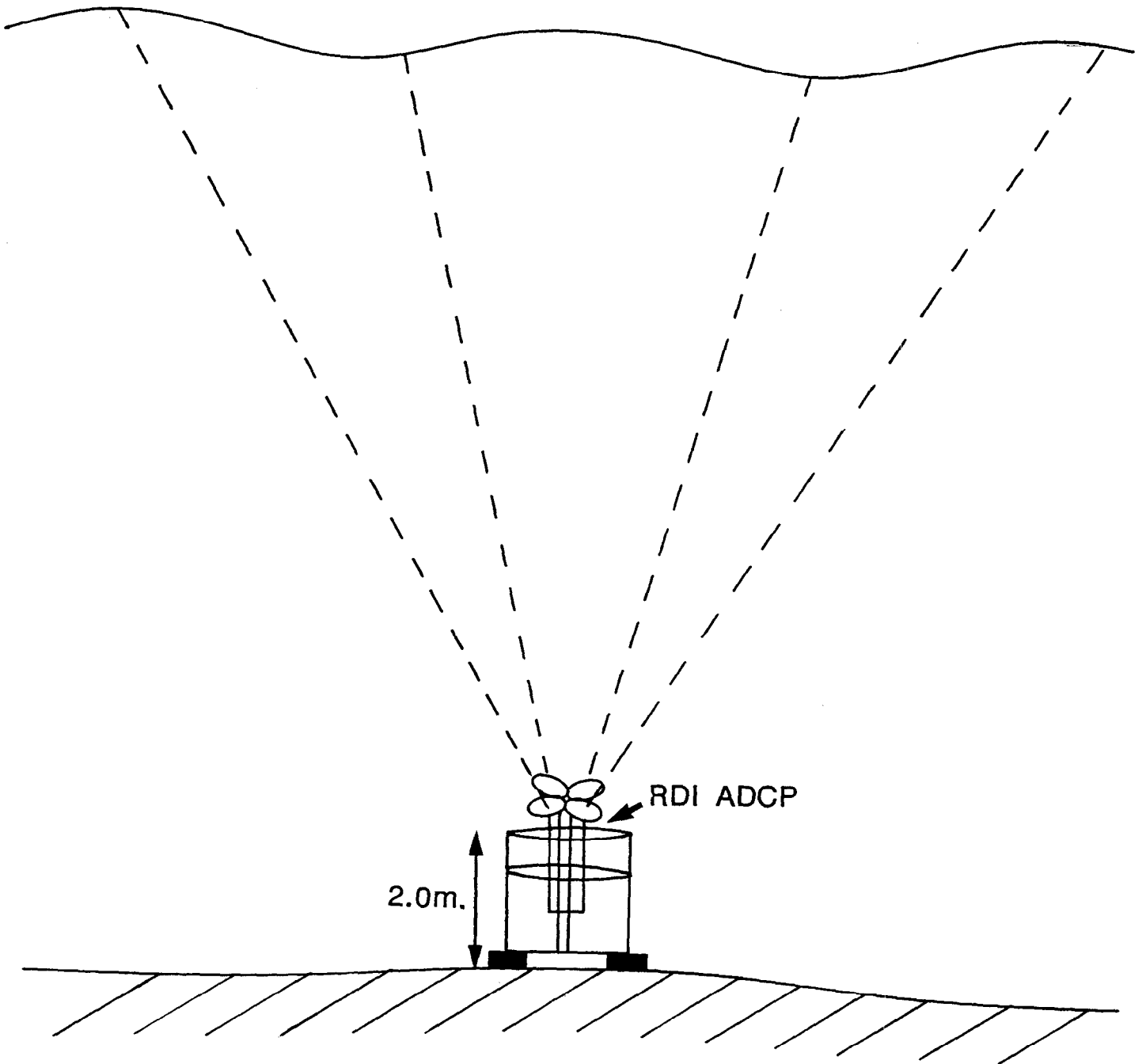


Figure 3(g).

Surface Current Meter (ETA)

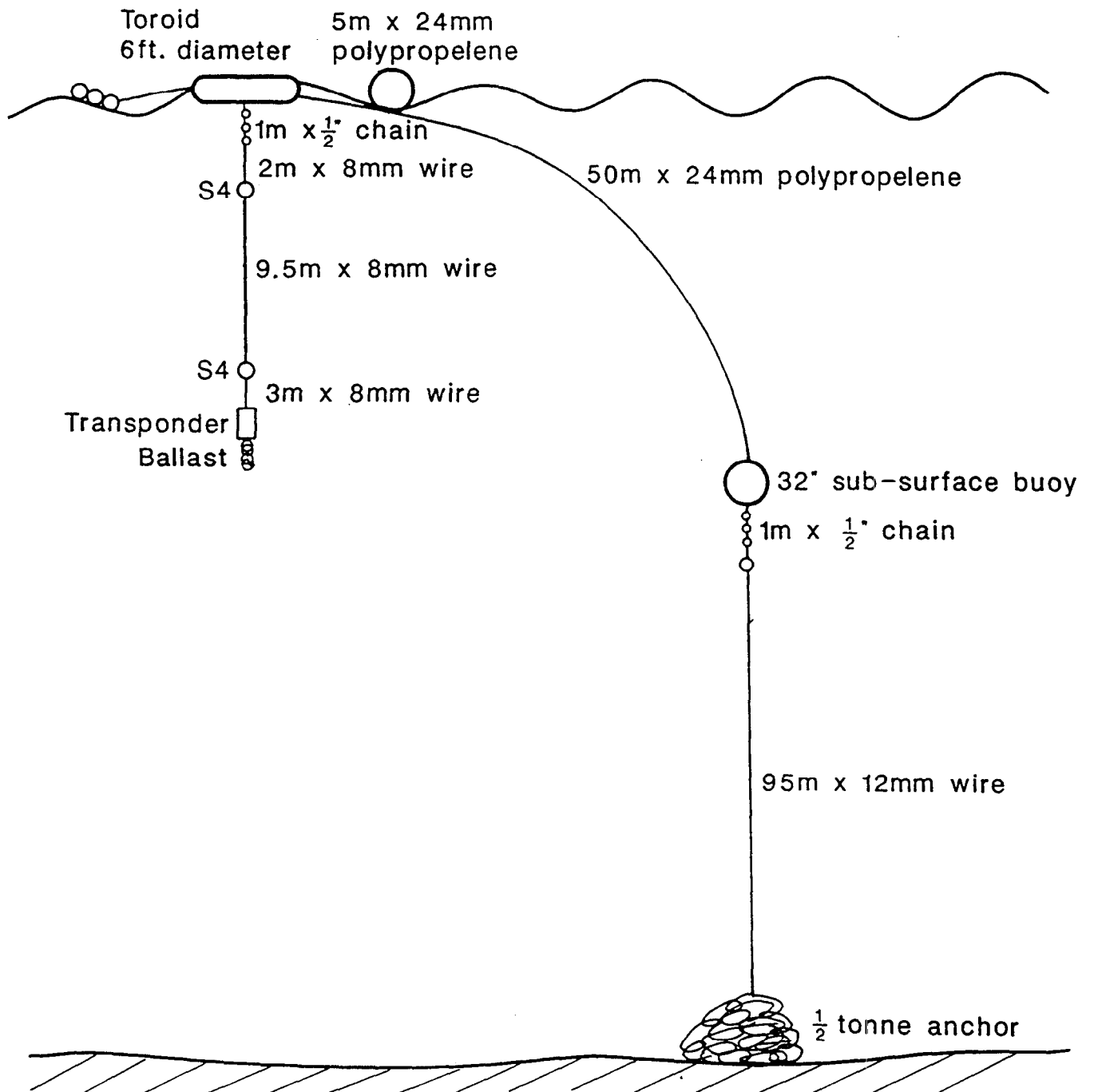


Figure 3(h).

HC

Pop-up Current Meter

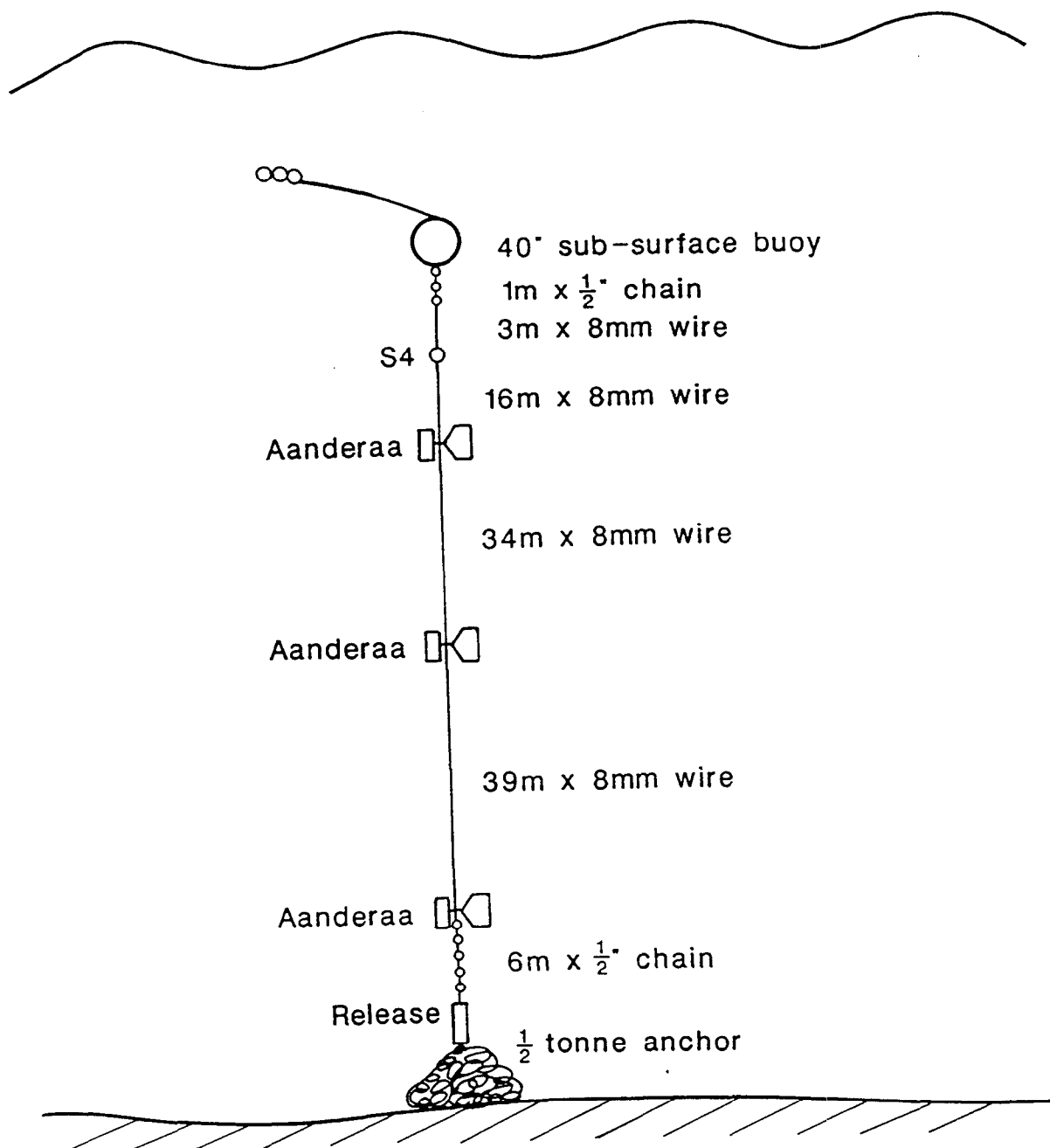


Figure 3(i).

IC

Pop - up Current Meter

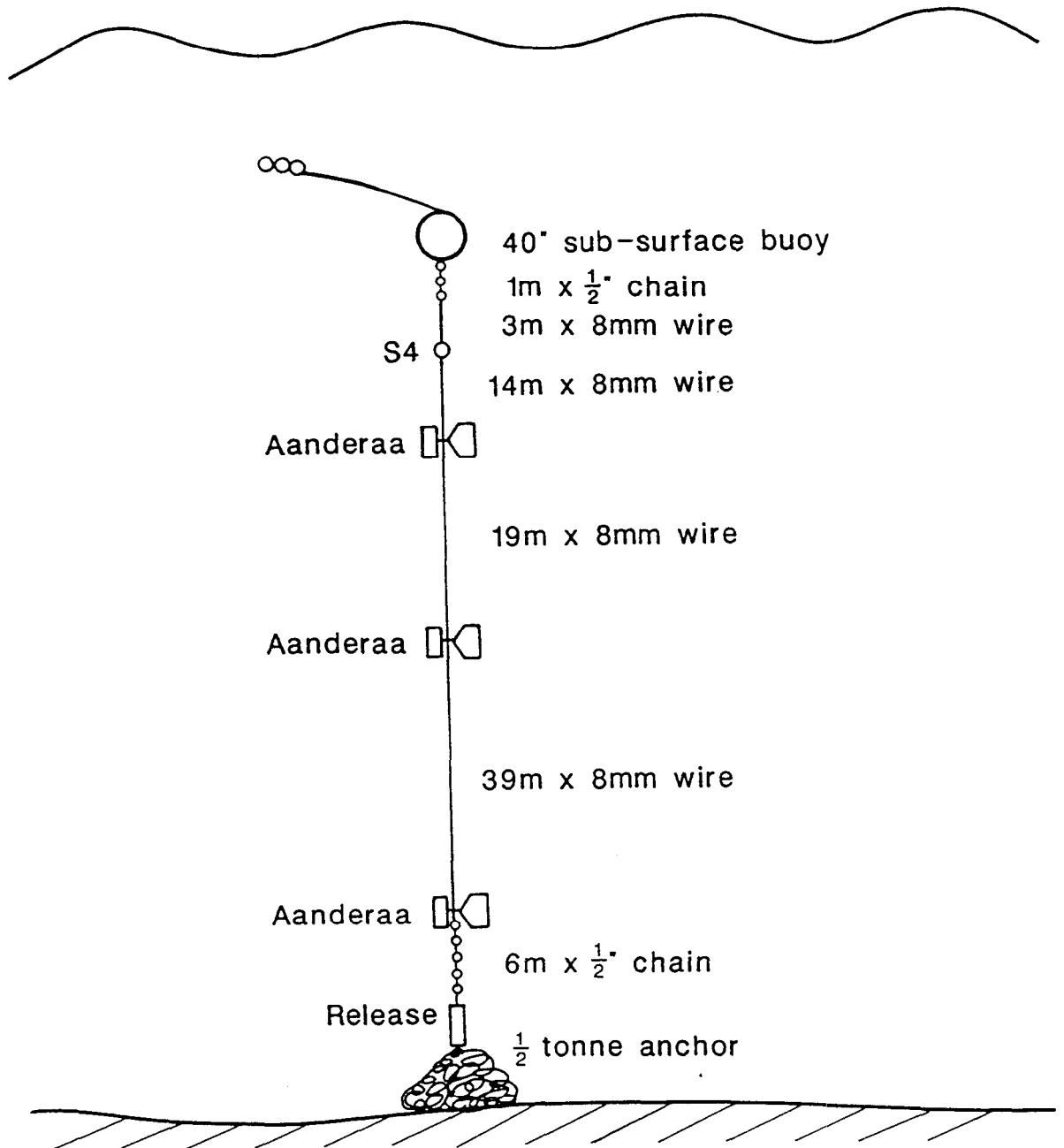


Figure 3(j).

IB

Surface Current Meter (ETA)

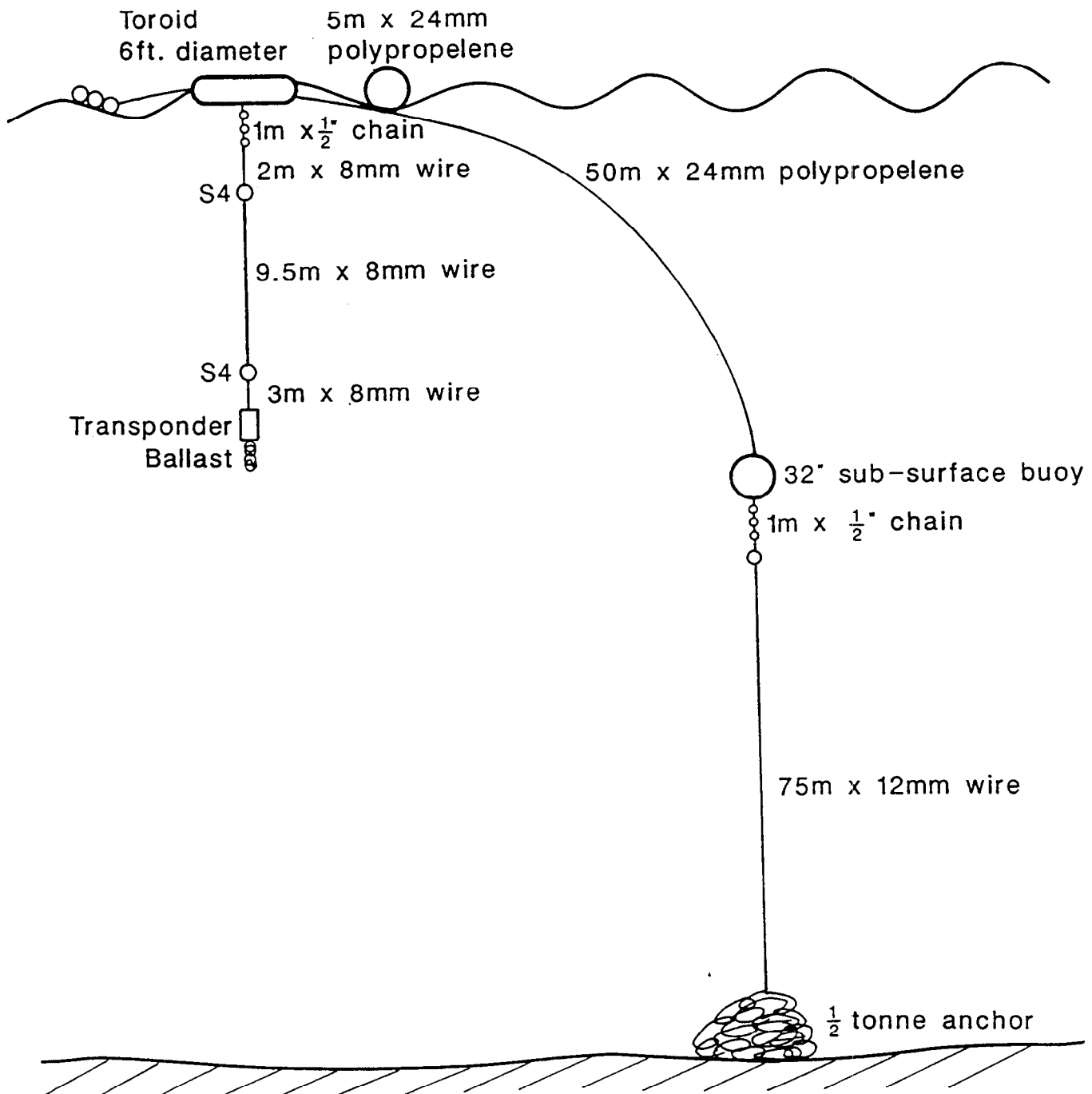


Figure 3(k).

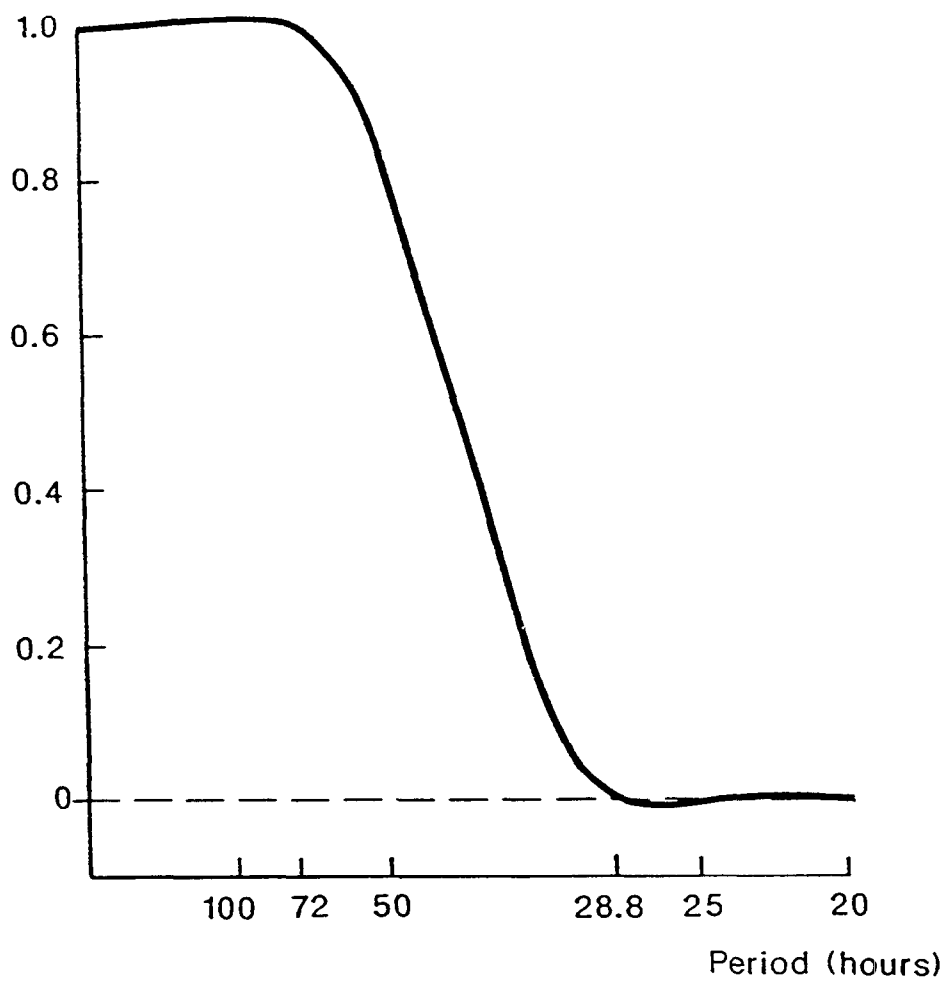


Figure 4. Plot of filter's response function.

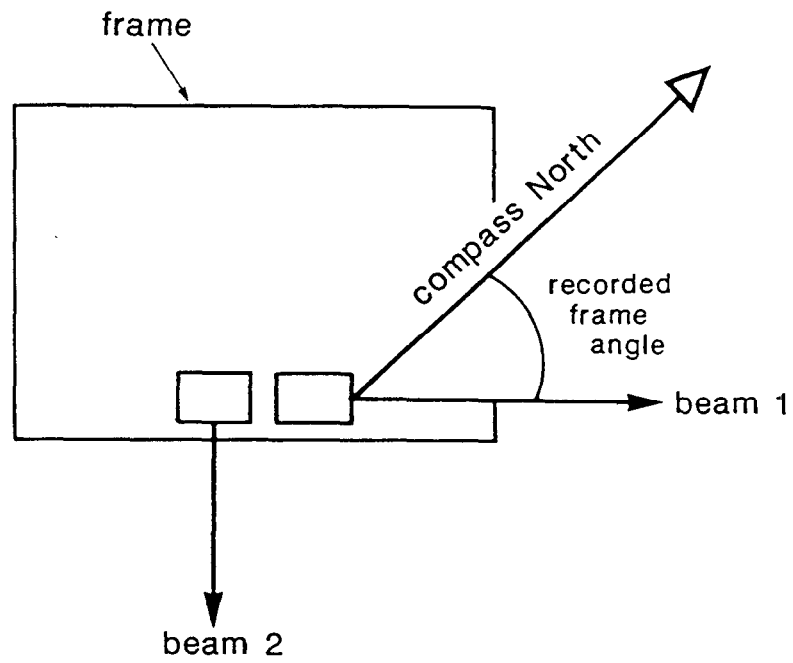


Figure 5. Diagram indicating beam alignments to frame for DP-ADCP.

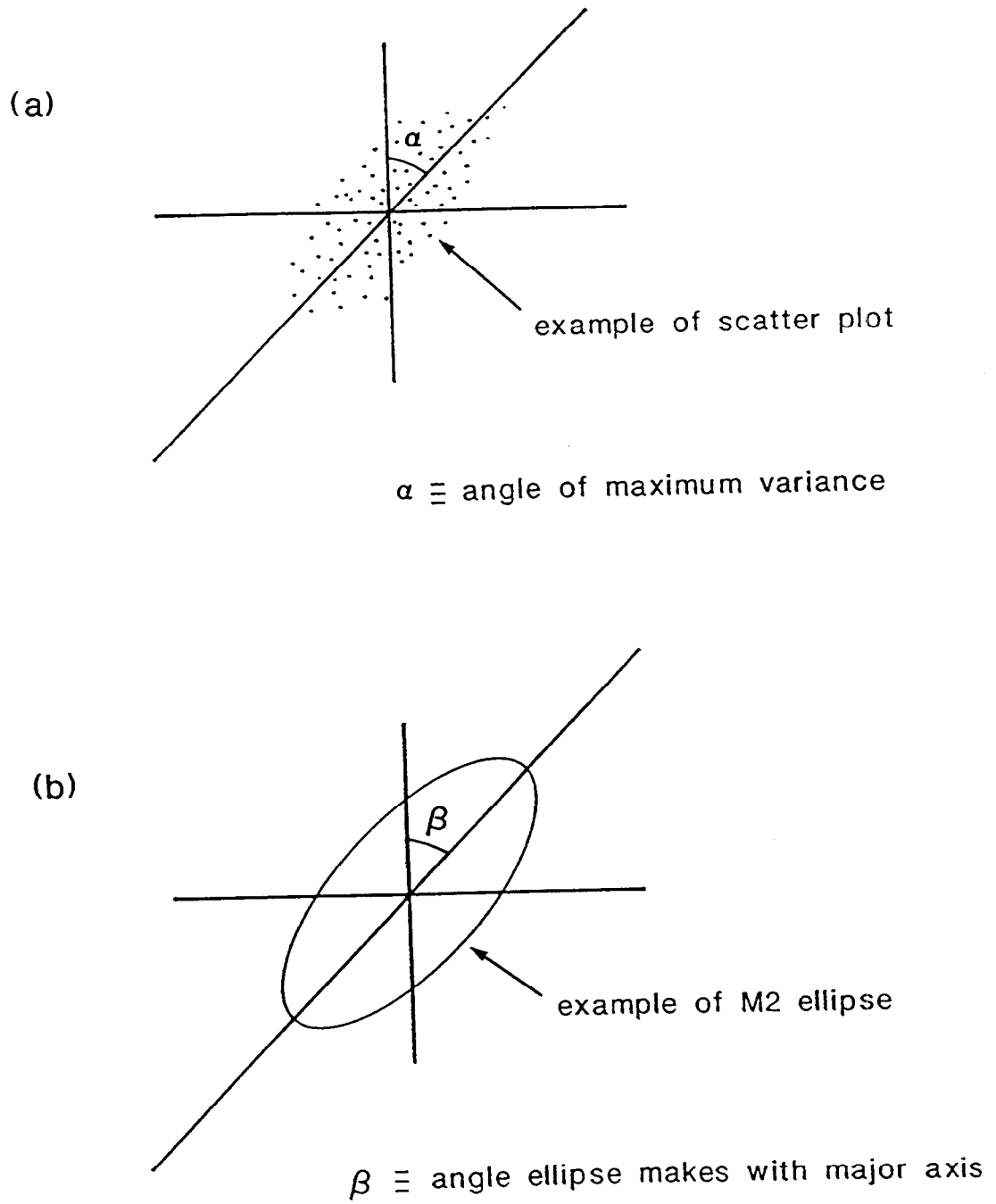


Figure 6. Diagram showing angles used in correction procedure for DP-ADCP.

Rig information details for 00488

Position Latitude	:	59 39.92N
Position Longitude	:	00 59.70E
Water depth	:	120.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	AA1
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	06-SEP-91 10:25:00
Rig recovered on	:	14-SEP-91 08:30:00
Period of deployment	:	7.9 days
Comments	:	Launch and recovery successful

TIME SERIES PLOTS

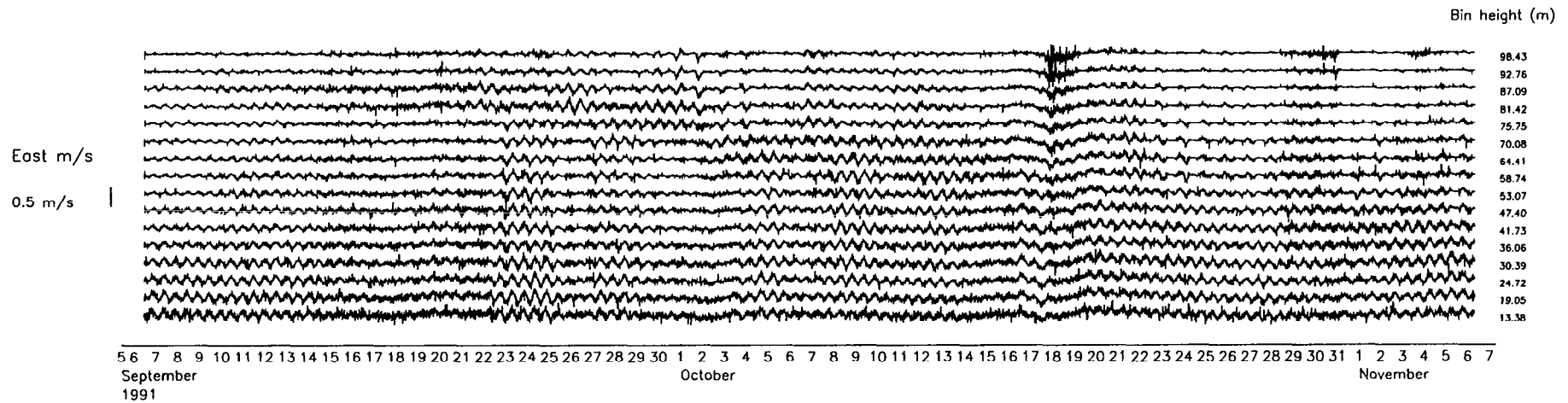
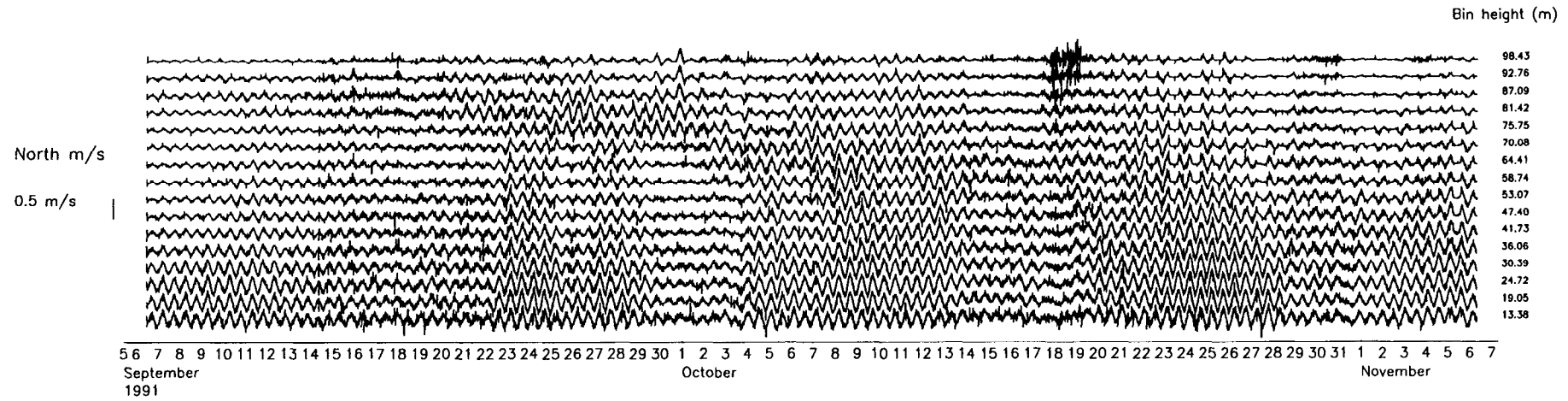
Meter No. 0006 Site AA Data Taken from 3 Consecutive Deployments

1. Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

2. Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

3. Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.92N 00 59.70E Water Depth(m) 120.0



Meter information details for 0006

Rig No	:	00488
Meter No	:	0006
Frame angle correction	:	0.9 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	06-SEP-91 09:49:31
Meter stopped	:	14-SEP-91 08:29:30
Period switched on	:	7.9 days
Period of good data	:	7.9 days
Total number of scans	:	1141
Timing error	:	1 seconds fast
Comments	:	Good record obtained

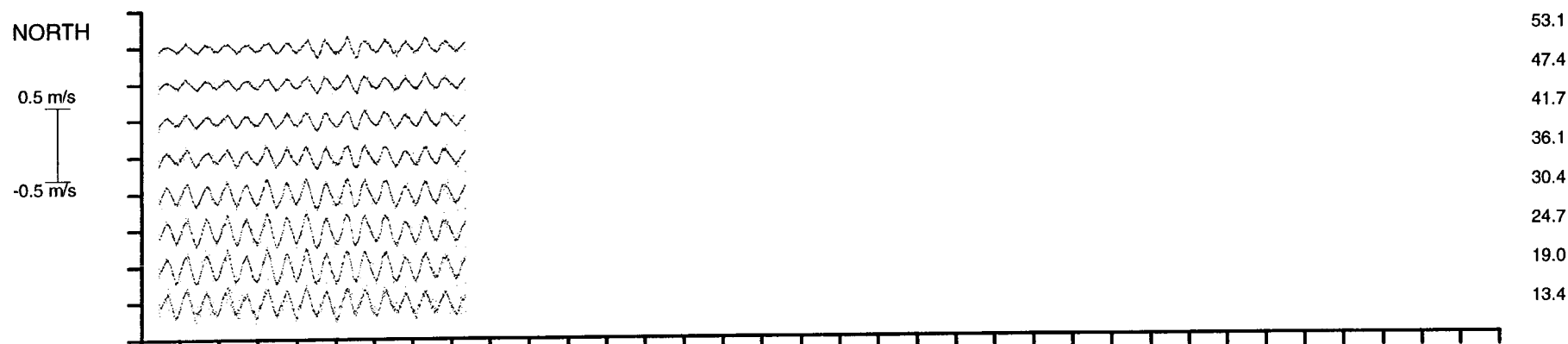
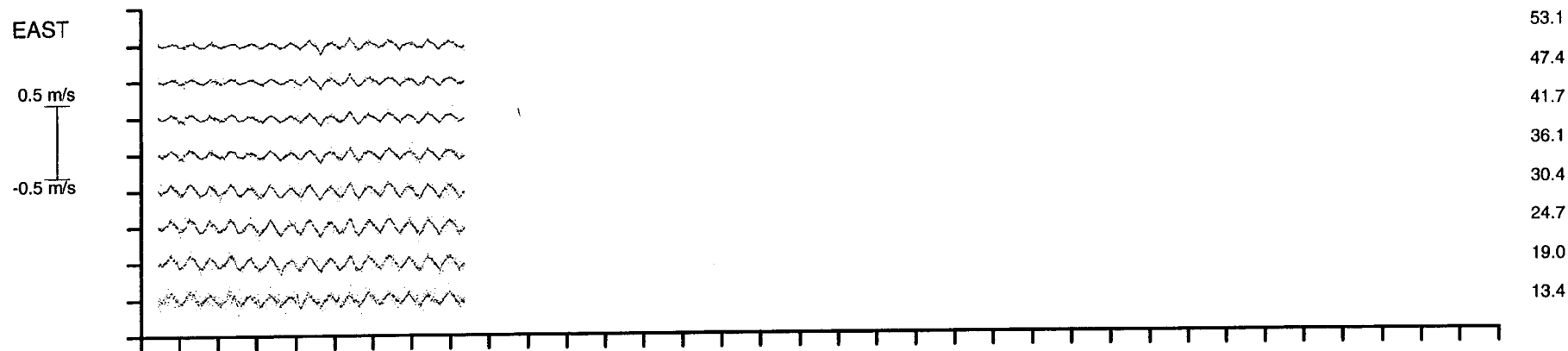
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00488 Depth of water(m) 120.0

Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

Position 59 39.92N 00 59.70E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
91 91
Sep Oct

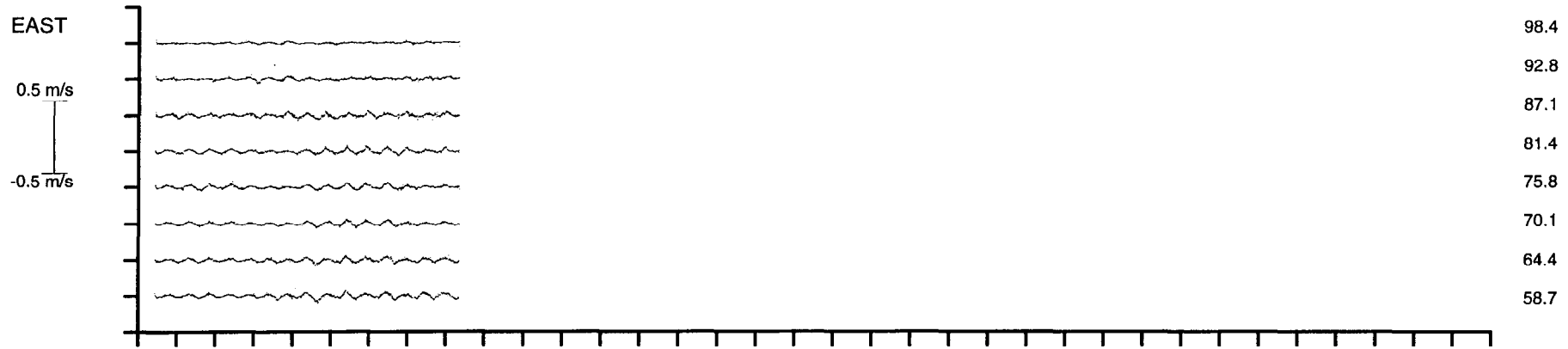
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00488 Depth of water(m) 120.0

Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

Position 59 39.92N 00 59.70E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10

91 91

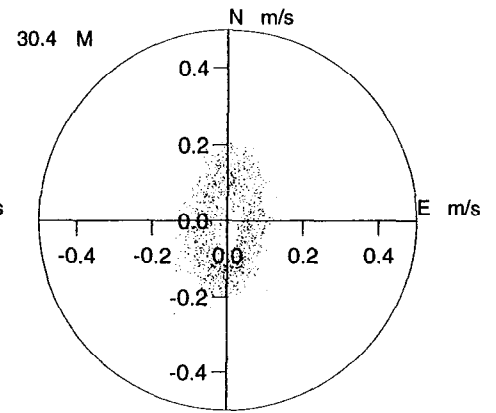
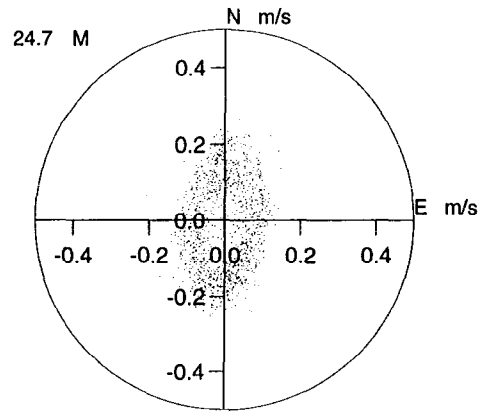
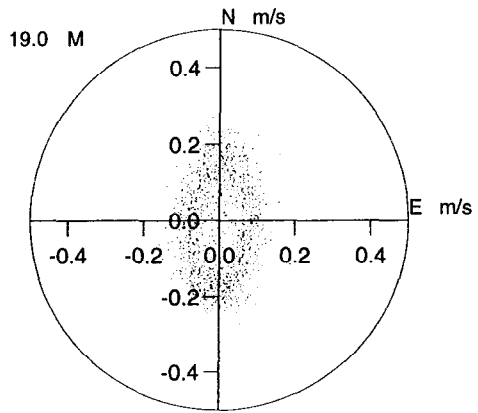
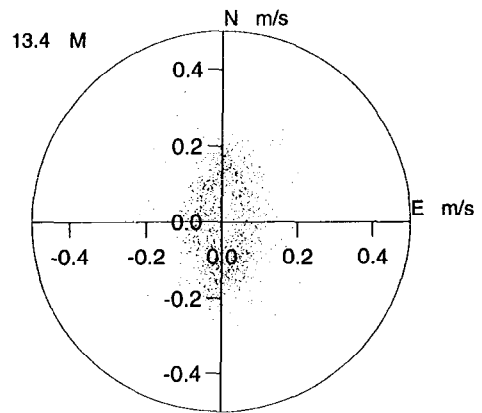
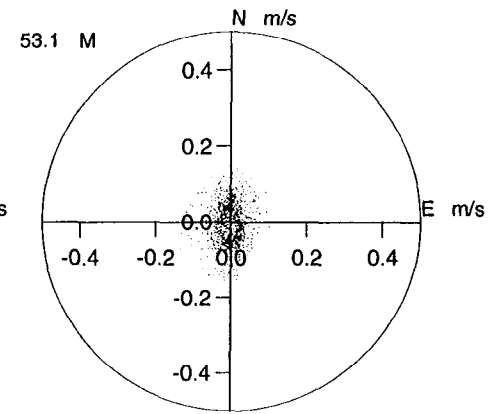
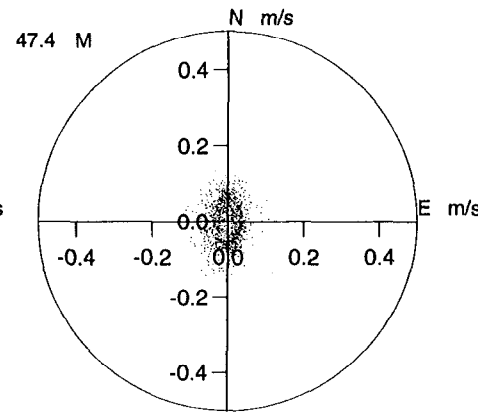
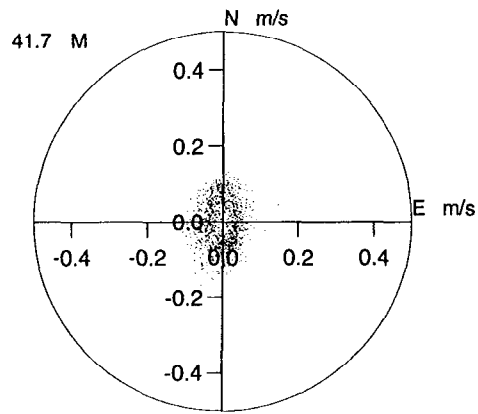
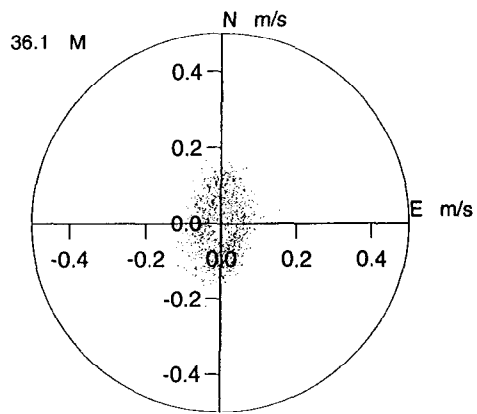
Sep Oct

SCATTER PLOT

Meter no. 0006 Rig no. 00488 Depth of water(m) 120.0

Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

Position 59 39.92N 00 59.70E 13.38 Base Ht 5.67 Gap Ht

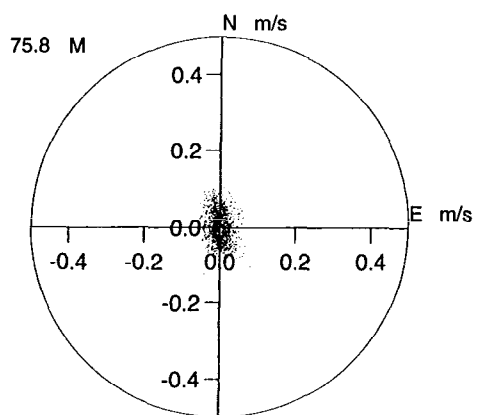
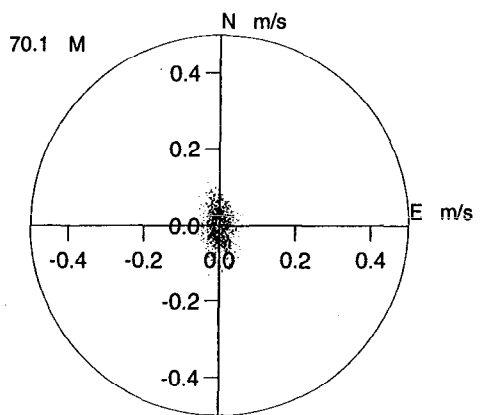
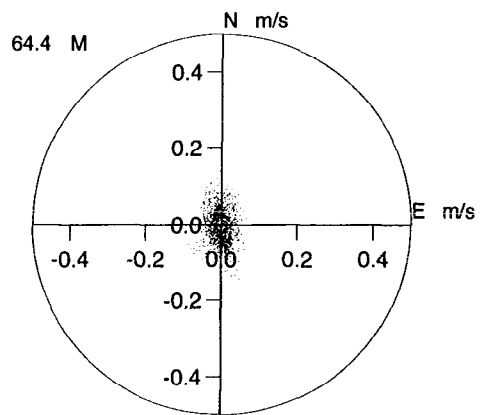
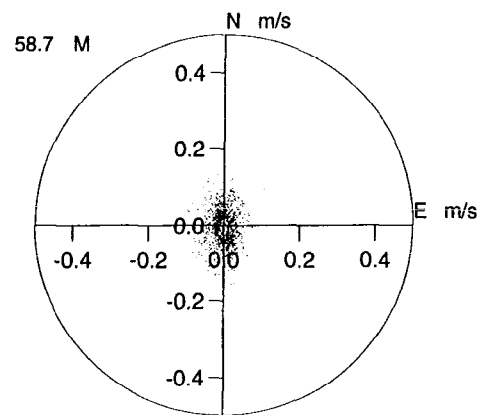
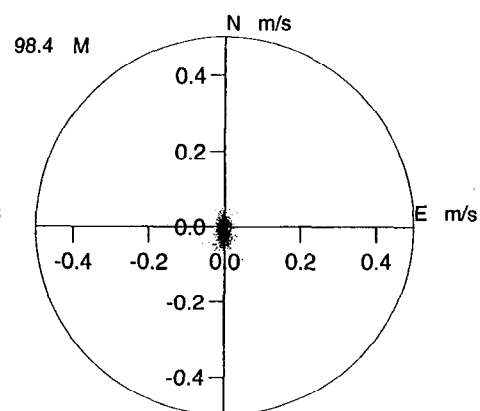
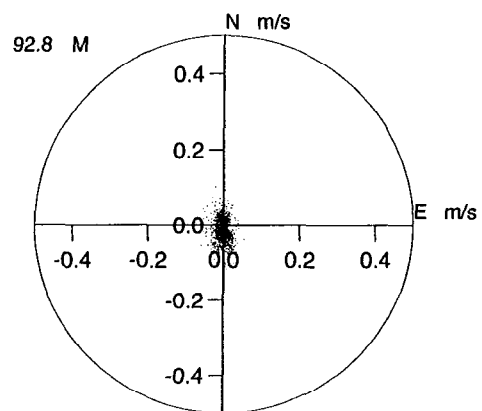
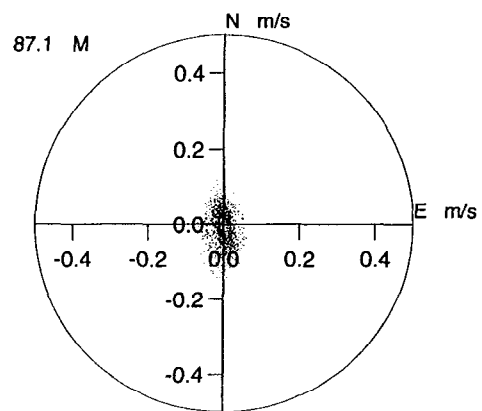
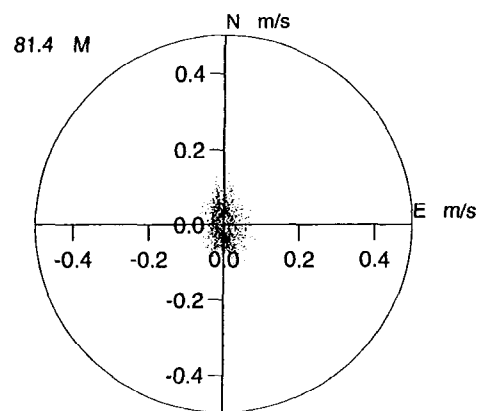


SCATTER PLOT

Meter no. 0006 Rig no. 00488 Depth of water(m) 120.0

Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

Position 59 39.92N 00 59.70E 13.38 Base Ht 5.67 Gap Ht



Statistics for dp0006.00488

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.008	133.4	0.0126	1.4	0.0031	91.4
2	19.0	0.017	177.0	0.0163	2.6	0.0035	92.6
3	24.7	0.013	-177.1	0.0148	5.2	0.0036	95.2
4	30.4	0.011	-170.9	0.0112	5.2	0.0029	95.2
5	36.1	0.006	-176.4	0.0057	4.5	0.0017	94.5
6	41.7	0.005	-165.2	0.0039	4.2	0.0012	94.2
7	47.4	0.004	-155.9	0.0028	1.4	0.0010	91.4
8	53.1	0.005	-161.4	0.0027	2.8	0.0009	92.8
9	58.7	0.005	-172.3	0.0023	-1.0	0.0006	89.0
10	64.4	0.004	-162.2	0.0019	-4.4	0.0005	85.6
11	70.1	0.003	-150.1	0.0017	-6.1	0.0004	83.9
12	75.8	0.001	-82.2	0.0015	-9.0	0.0004	81.0
13	81.4	0.001	26.0	0.0019	-7.7	0.0005	82.3
14	87.1	0.010	-171.5	0.0022	-5.3	0.0004	84.7
15	92.8	0.012	-169.9	0.0010	-2.9	0.0002	87.1
16	98.4	0.009	-170.9	0.0004	-1.5	0.0001	88.5

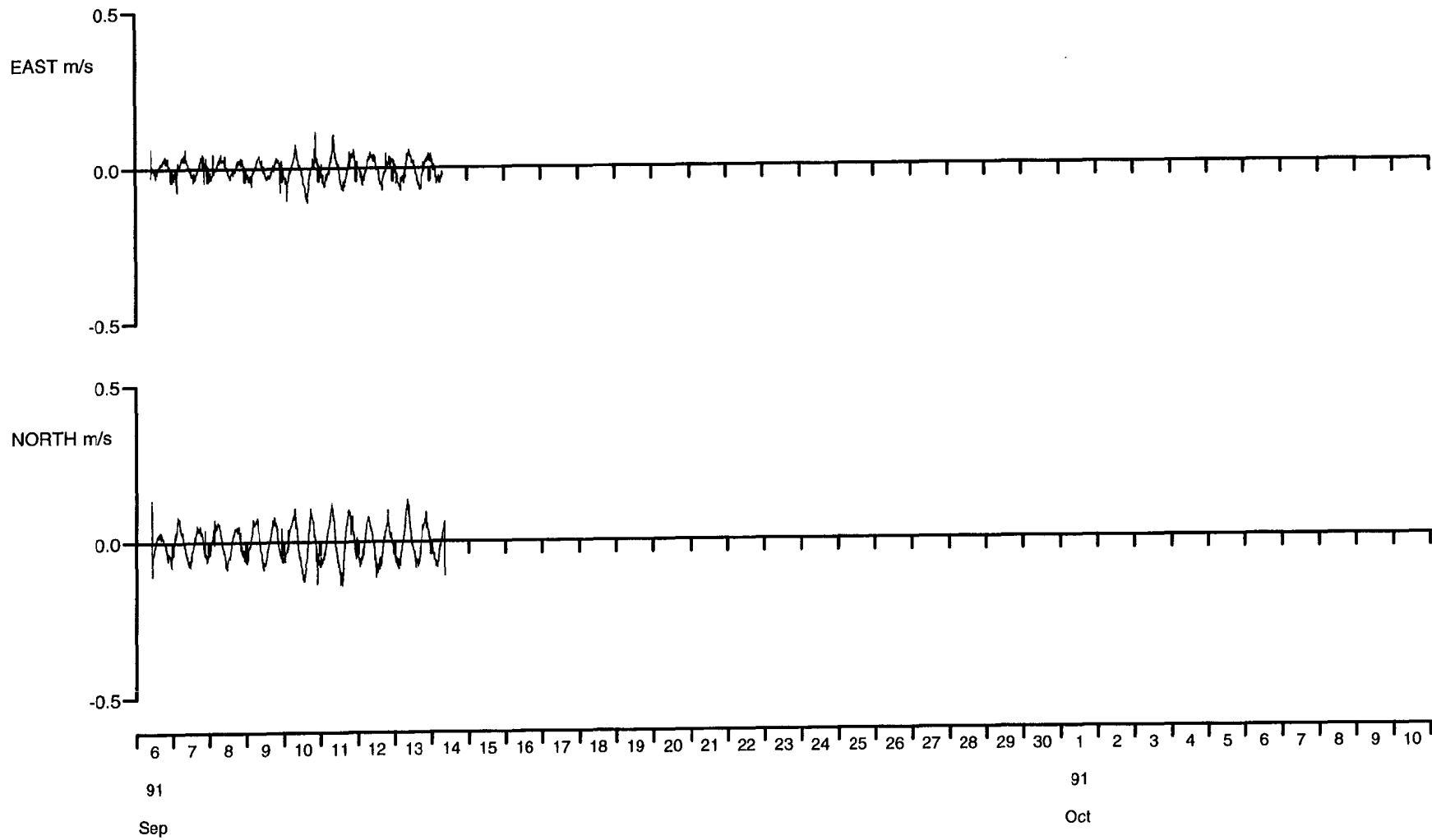
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00488 Depth of water(m) 120.0

Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

Position 59 39.92N 00 59.70E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



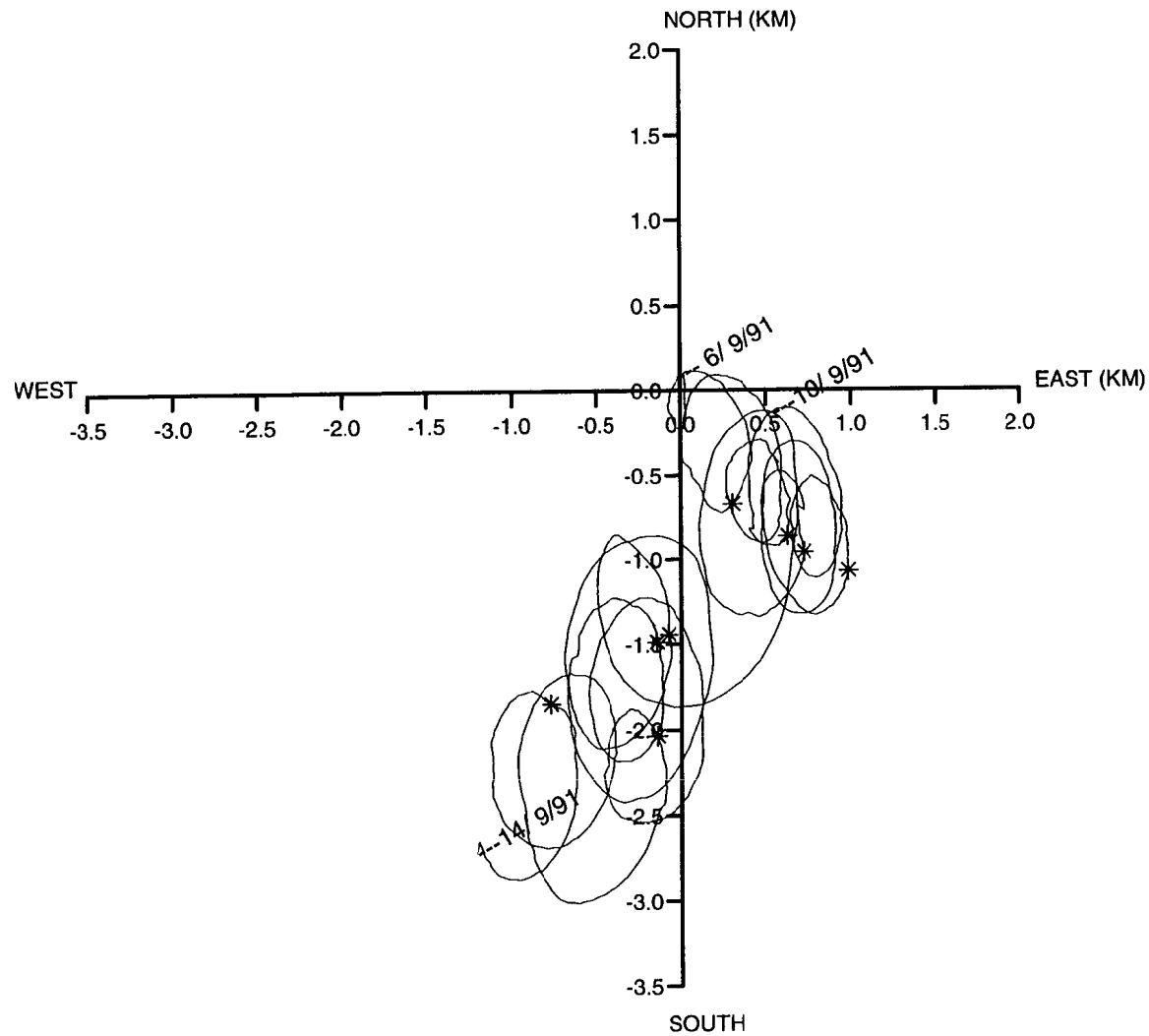
VECTOR PLOT

Meter no. 0006 Rig no. 00488 Depth of water(m) 120.0

Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00

Position 59 39.92N 00 59.70E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0006.00488s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0018	0.97245653E-03	0.31184234E-01
Northings	-0.0040	0.27693894E-02	0.52624989E-01
Speed	0.0562	0.60139643E-03	0.24523385E-01
Vector mean speed	0.0043		
Vector Mean Direction	-155.9		

Maximum ten values

Eastings					Northings				
0.118	0.109	0.103	0.091	0.090	0.135	0.133	0.132	0.125	0.123
0.090	0.088	0.078	0.076	0.067	0.121	0.116	0.116	0.116	0.110

Minimum ten values

Eastings					Northings				
-0.083	-0.086	-0.088	-0.093	-0.097	-0.122	-0.123	-0.126	-0.126	-0.128
-0.099	-0.103	-0.104	-0.105	-0.111	-0.128	-0.135	-0.136	-0.140	-0.141

Maximum speeds

0.179	0.152	0.144	0.141	0.140	0.138	0.137	0.136	0.131	0.130
0.129	0.128	0.125	0.125	0.124	0.123	0.123	0.123	0.123	0.123
0.121	0.119	0.119	0.118	0.117	0.117	0.117	0.116	0.115	0.115
0.115	0.115	0.114	0.114	0.114	0.114	0.113	0.113	0.112	0.112
0.111	0.110	0.109	0.109	0.109	0.108	0.108	0.107	0.107	0.107
0.107	0.106	0.106	0.105	0.105	0.104	0.103	0.103	0.102	0.102
0.102	0.102	0.102	0.101	0.101	0.101	0.101	0.099	0.099	0.099
0.099	0.099	0.098	0.098	0.098	0.098	0.098	0.098	0.097	0.097
0.097	0.095	0.095	0.095	0.095	0.094	0.094	0.094	0.094	0.094
0.093	0.093	0.093	0.093	0.092	0.092	0.092	0.091	0.091	0.091

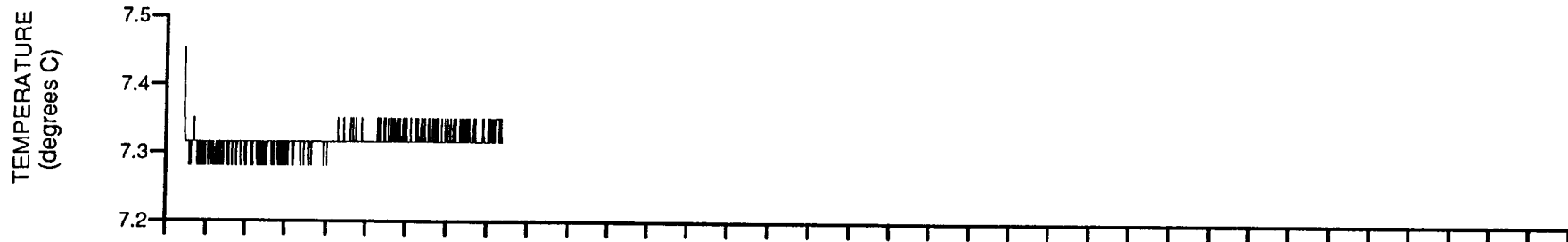
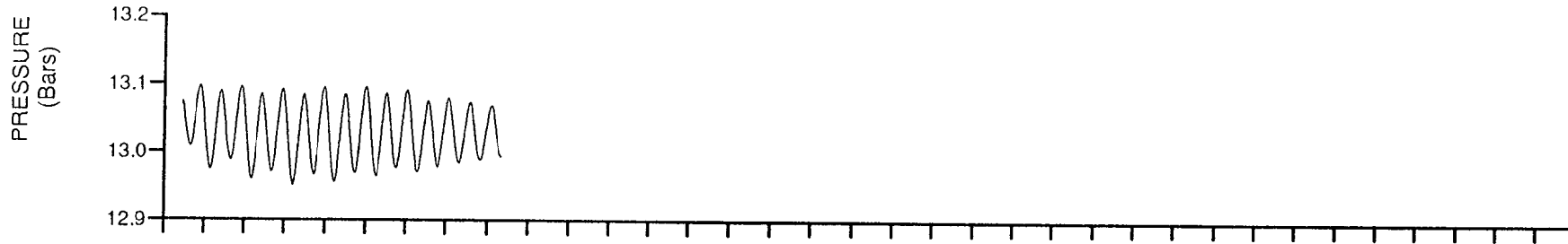
Variance ellipse statistics

Maximum variance	0.2771E-02	Direction	1.4
Minimum variance	0.9713E-03	Direction	91.4
Total variance	0.3742E-02	Ratio of variances	0.3506E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	-2.8		
Average direction. maxdir +PI/2 to maxdir -PI/2	177.9		

Meter information details for 0444

Rig No	:	00488
Meter No	:	0444
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Position of meter on rig	:	A
Meter type	:	WR
Meter started	:	06-SEP-91 07:20:41
Meter stopped	:	14-SEP-91 09:20:00
Period switched on	:	8.1 days
Period of good data	:	7.9 days
Total number of scans	:	1140
Timing error	:	41 seconds fast
Comments	:	Good record obtained

Meter no. 0444 Rig no. 00488 Depth of water(m) 120.0
Start/End 1991/09/06 AT 10:25:00 1991/09/14 AT 08:30:00
Position 59 39.92N 00 59.70E Meter Height(m) 0.8



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
91 91
Sep Oct

Rig information details for 00510

Position Latitude	:	59 39.66N
Position Longitude	:	00 59.85E
Water depth	:	120.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	AA2
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	14-SEP-91 10:30:00
Rig recovered on	:	28-OCT-91 10:28:00
Period of deployment	:	44.0 days
Comments	:	Launch and recovery successful

Meter information details for 0006

Rig No	:	00510
Meter No	:	0006
Frame angle correction	:	-19.2 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	14-SEP-91 10:29:27
Meter stopped	:	29-OCT-91 00:19:32
Period switched on	:	44.6 days
Period of good data	:	44.0 days
Total number of scans	:	6335
Timing error	:	5 seconds slow
Comments	:	Good record obtained

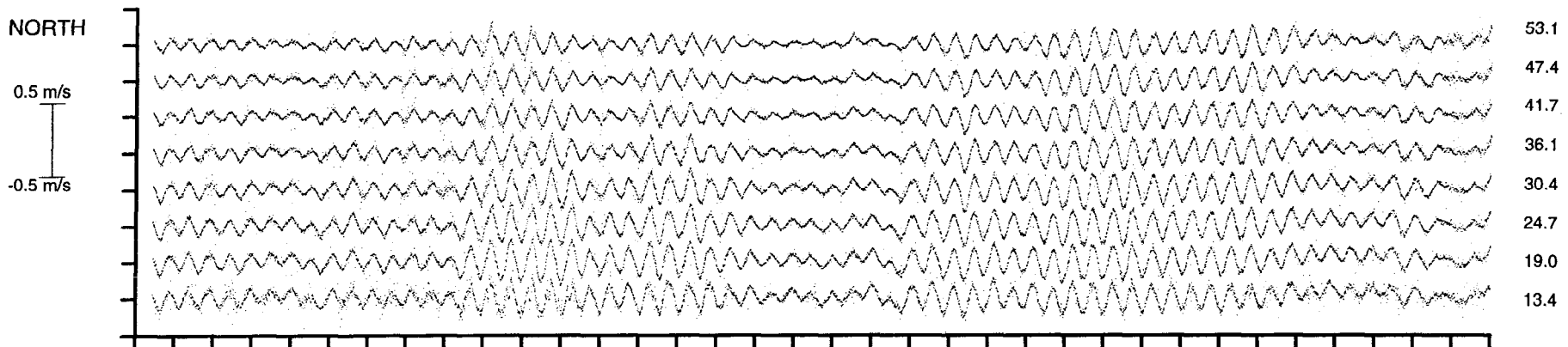
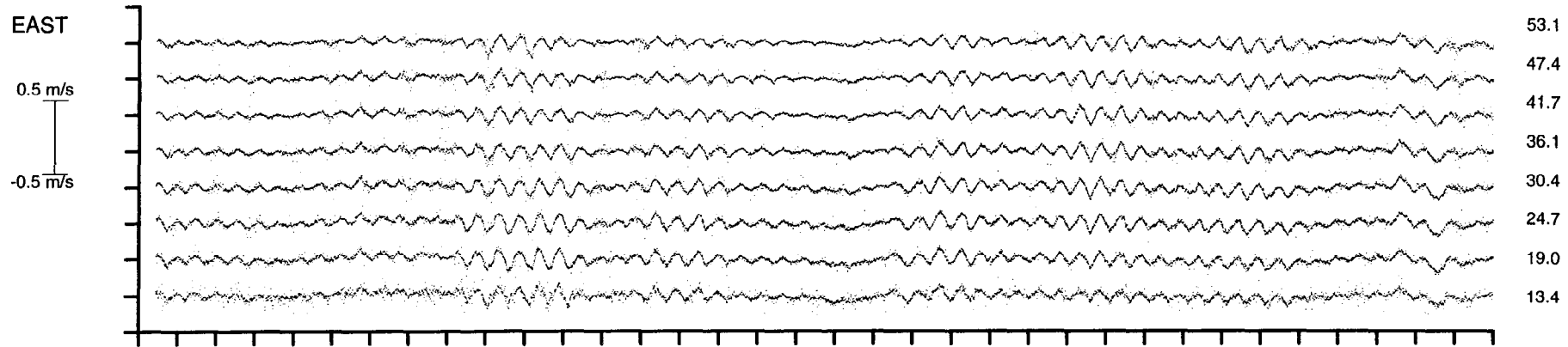
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
91 91
Sep Oct

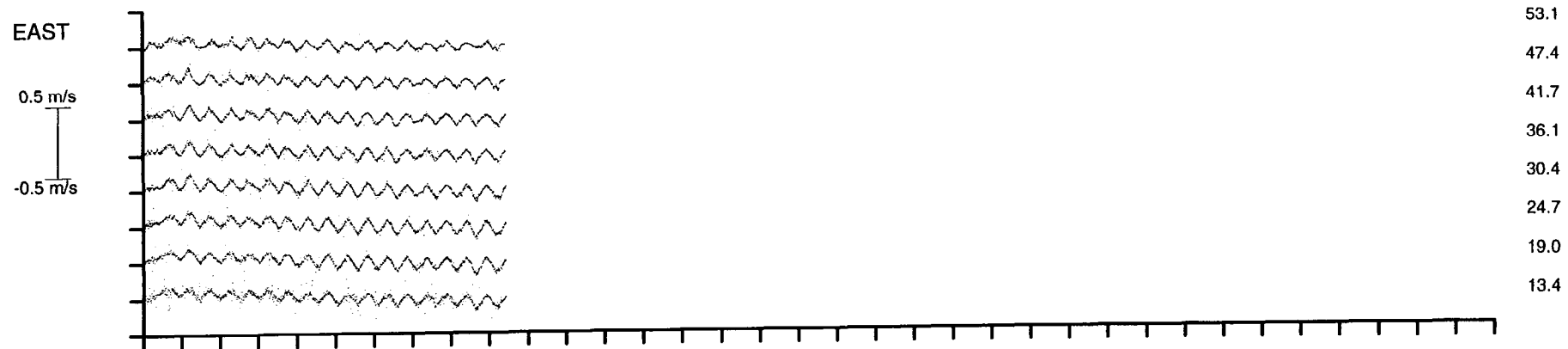
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

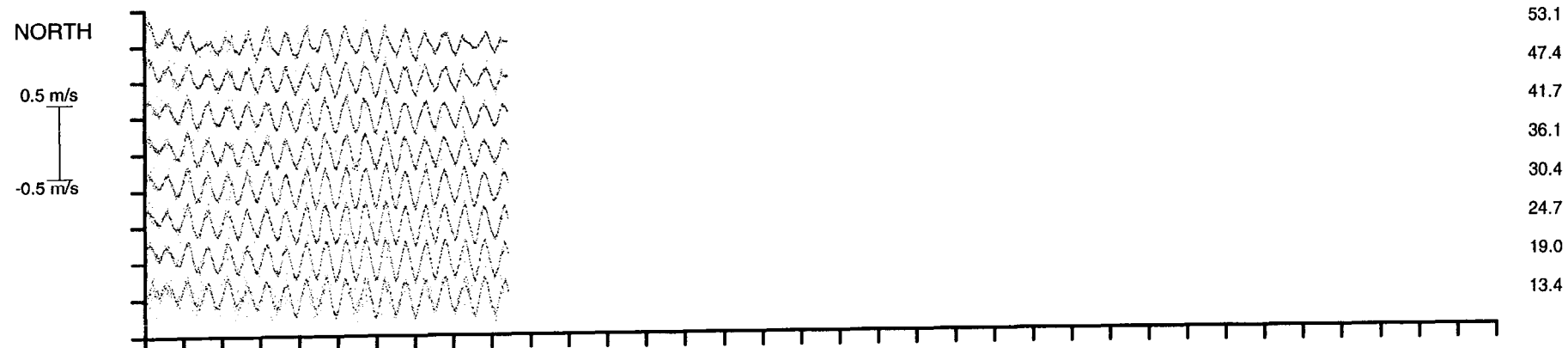
Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



53.1
47.4
41.7
36.1
30.4
24.7
19.0
13.4



53.1
47.4
41.7
36.1
30.4
24.7
19.0
13.4

19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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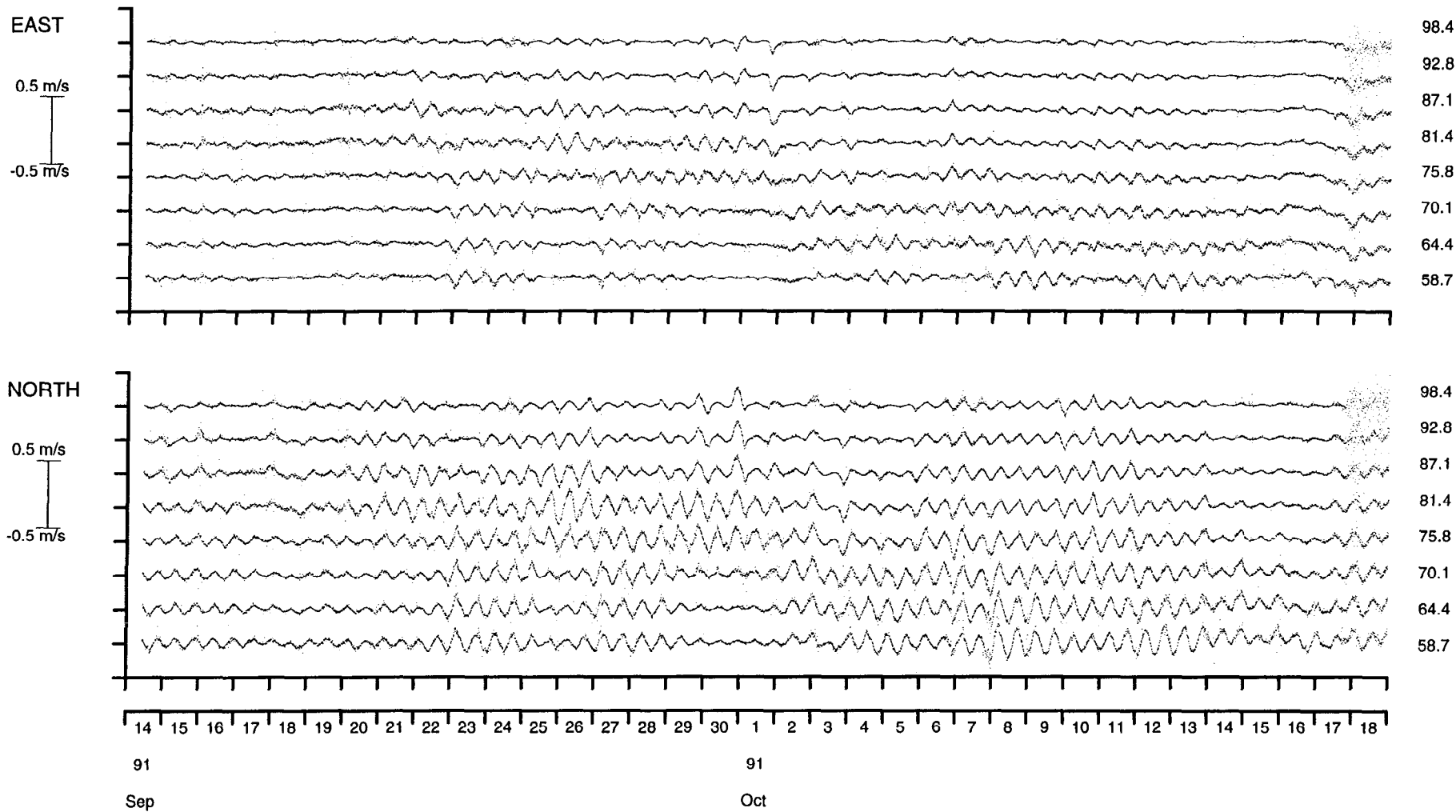
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



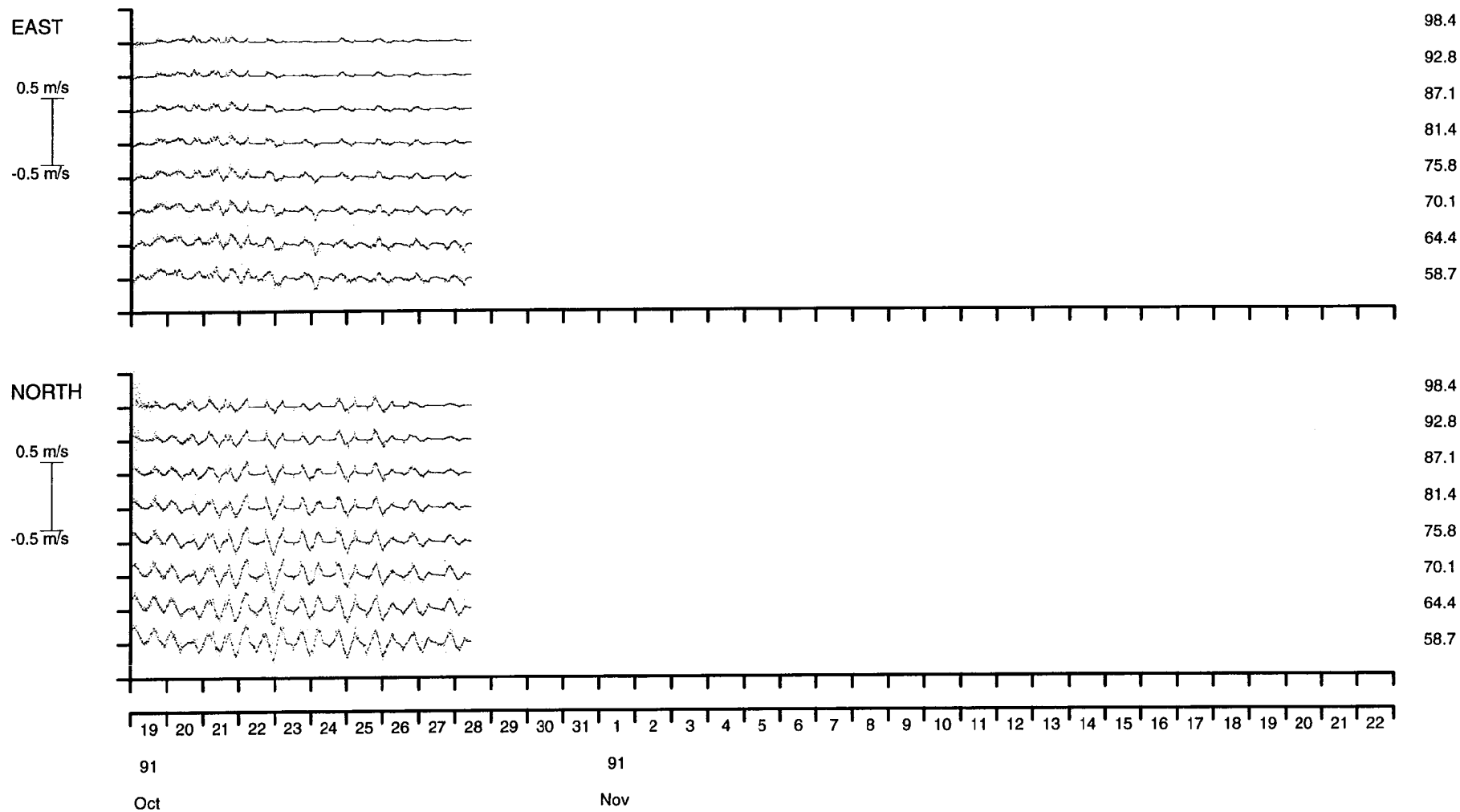
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

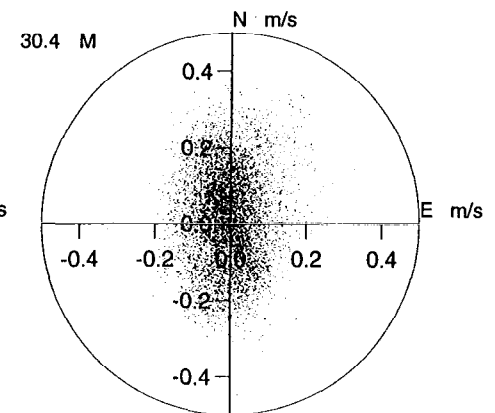
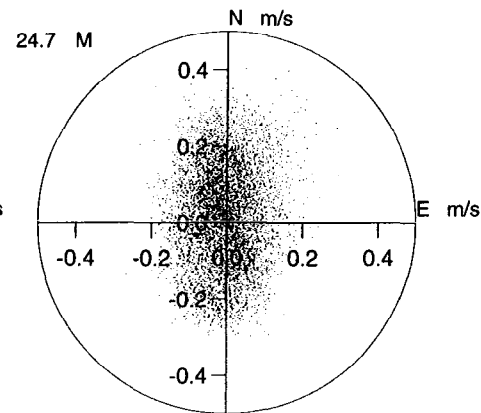
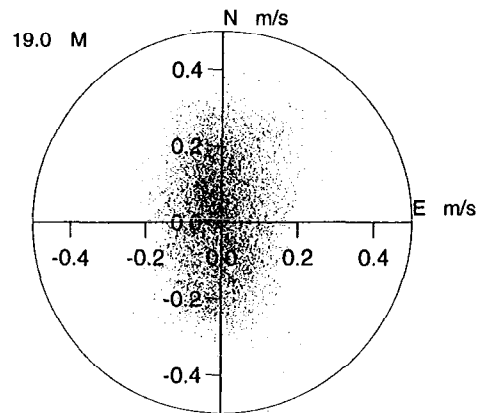
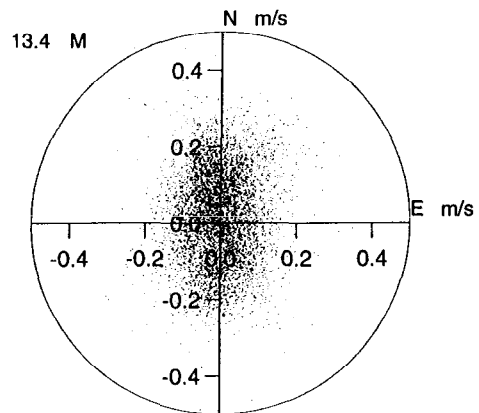
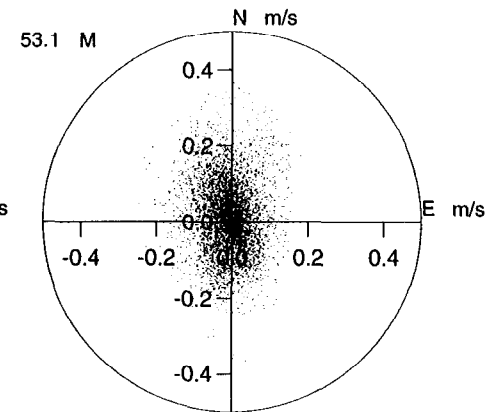
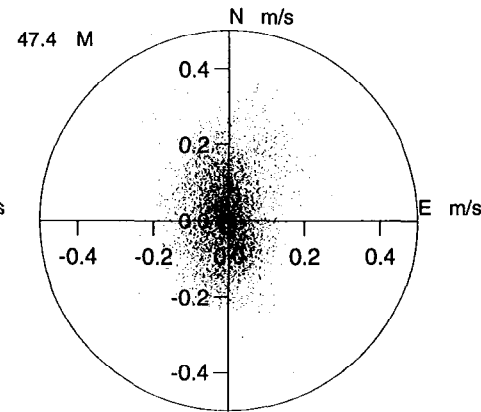
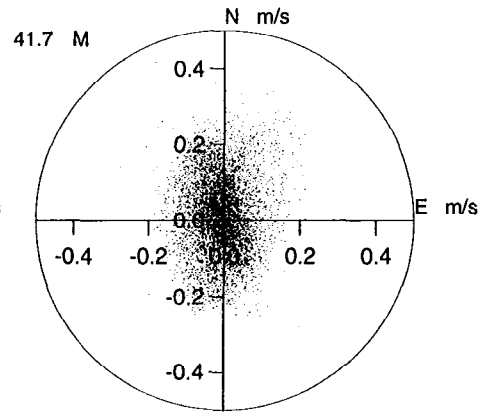
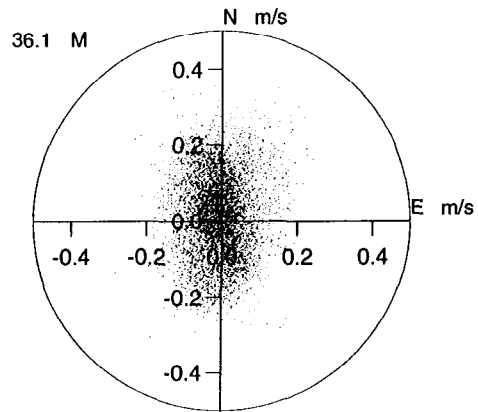


SCATTER PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

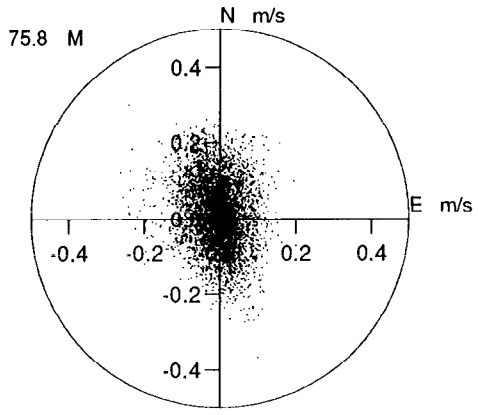
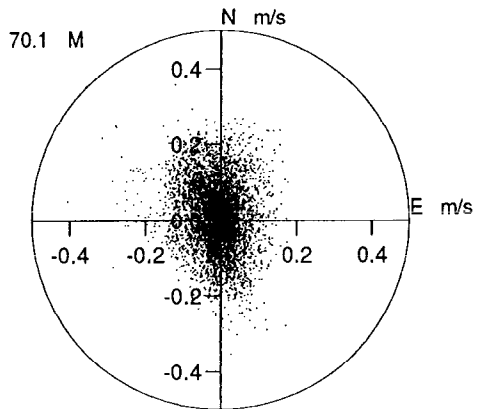
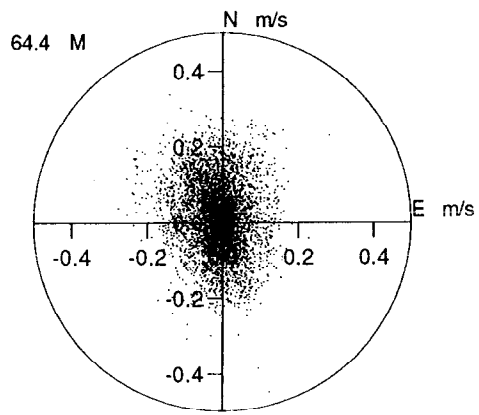
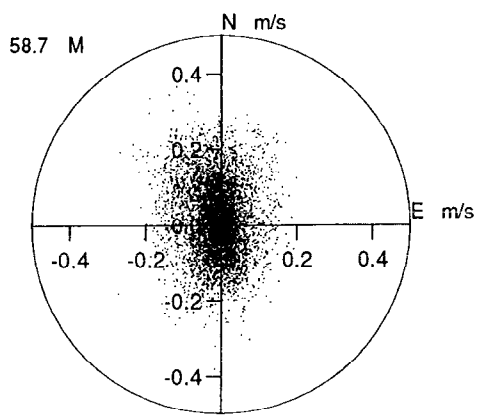
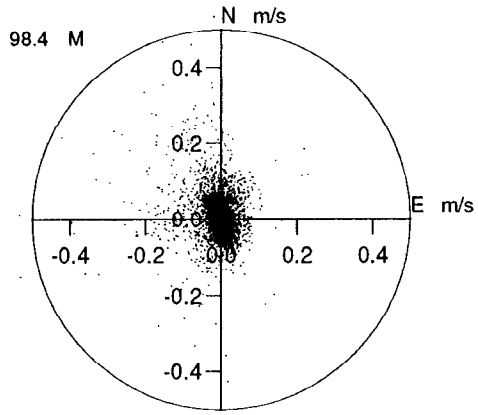
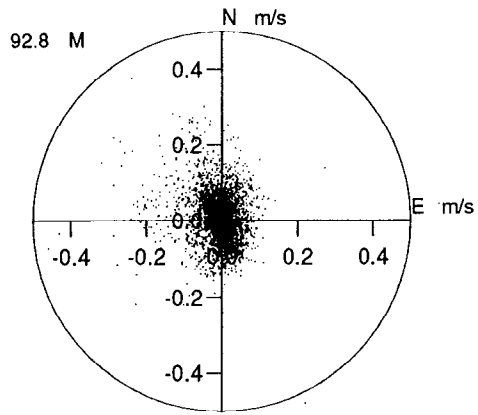
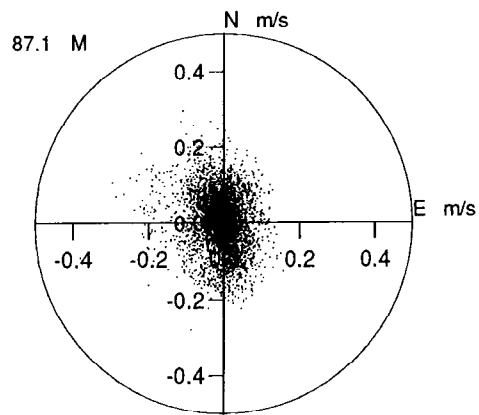
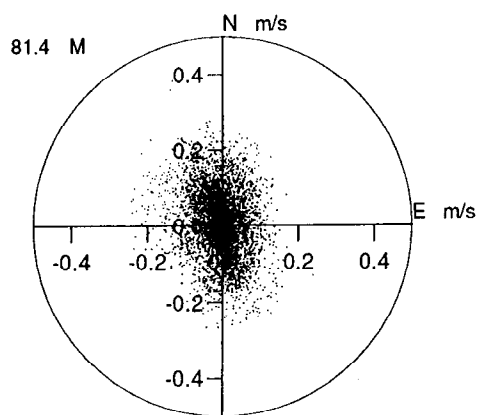


SCATTER PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

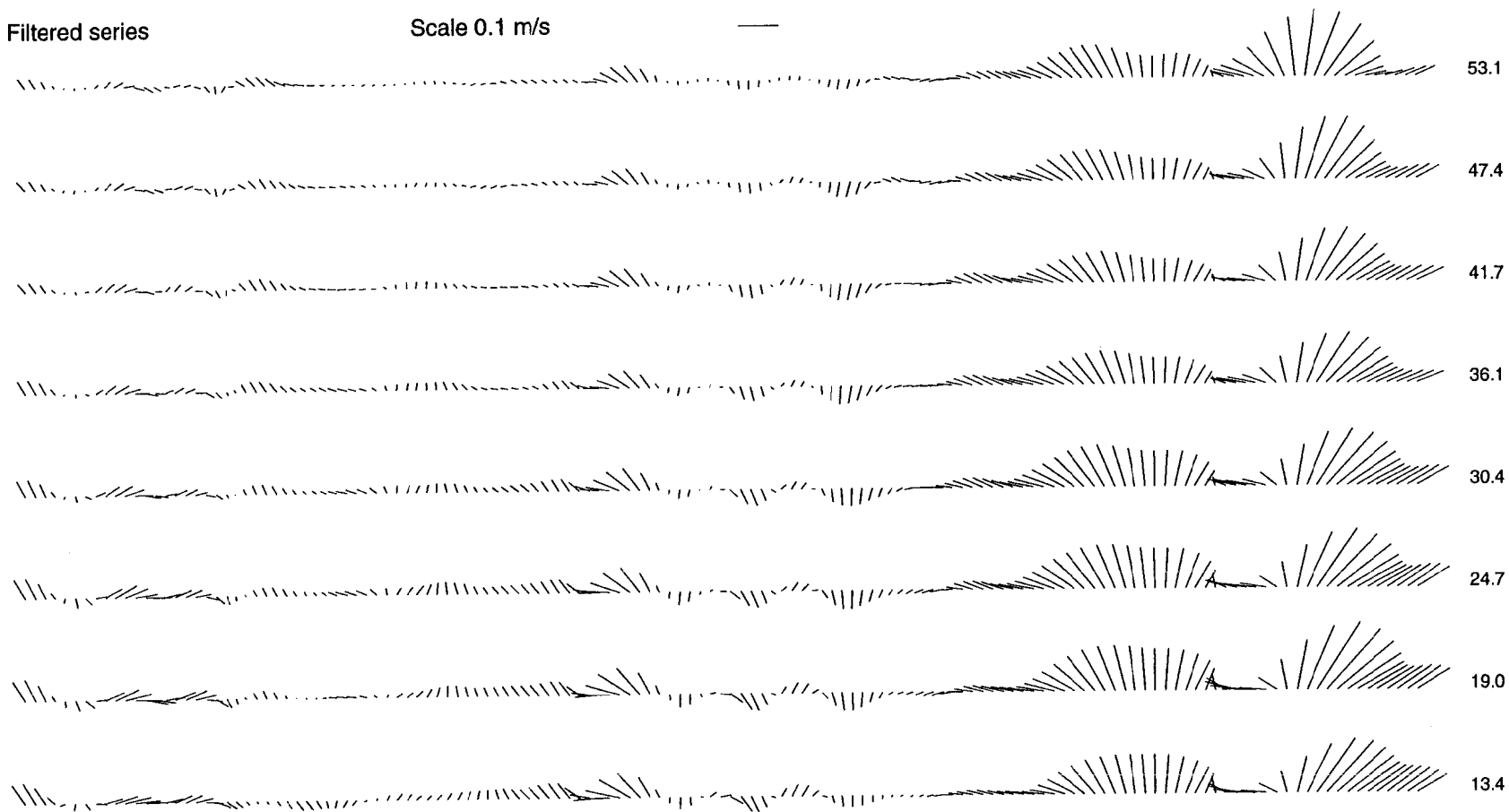
Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)



17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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STICK TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Filtered series

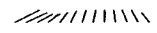
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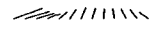
Bin Ht (m)



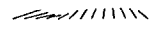
53.1



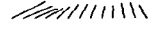
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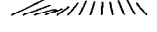
41.7



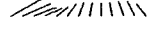
36.1



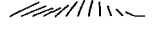
30.4



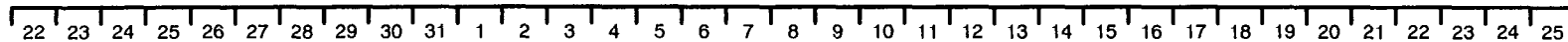
24.7



19.0



13.4



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STICK TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

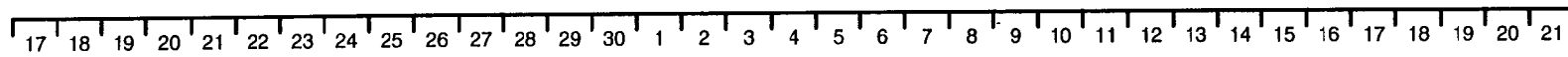
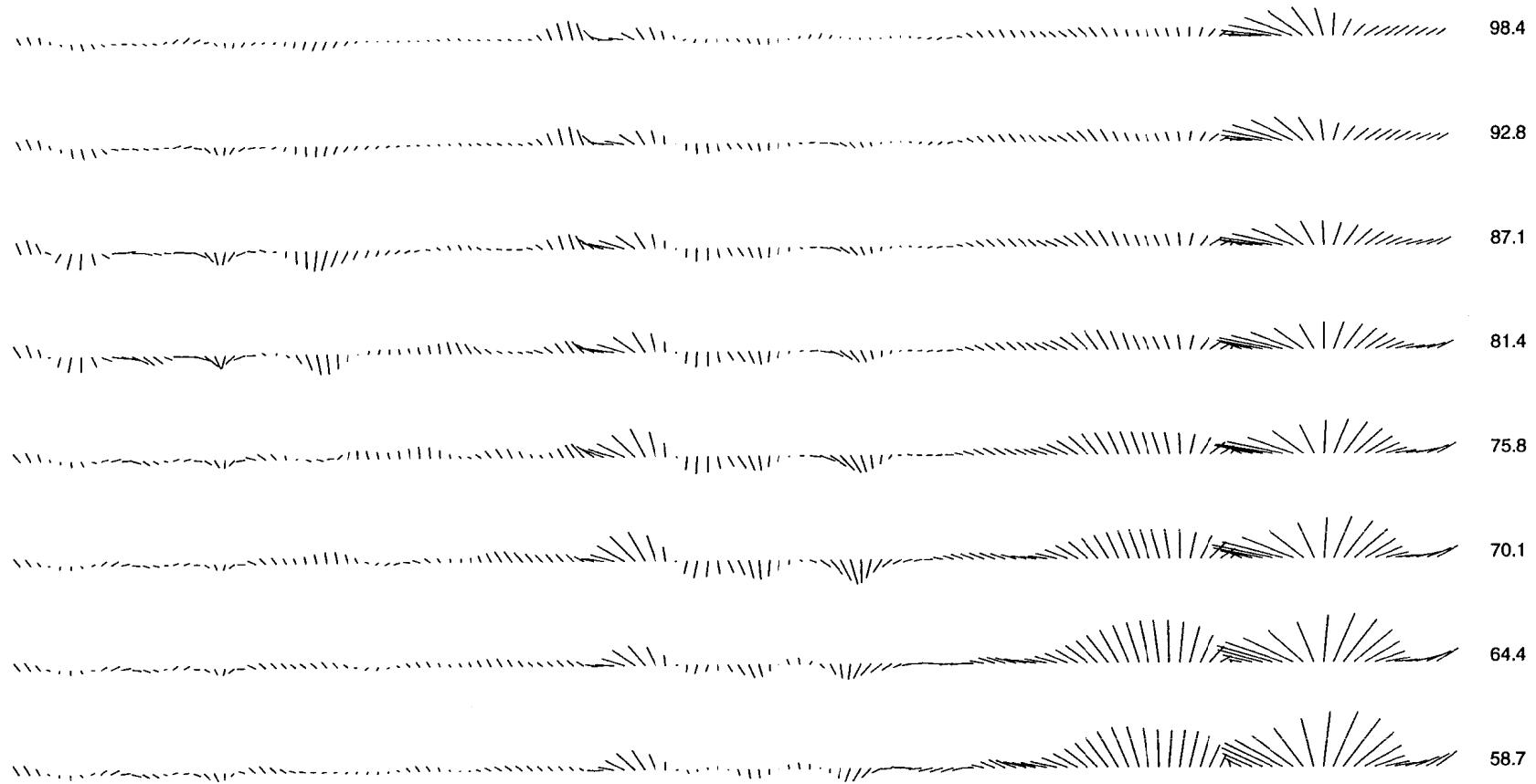
Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s



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Sep

Oct

STICK TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)

//////

98.4

//////

92.8

//////

87.1

//////

81.4

//////

75.8

//////

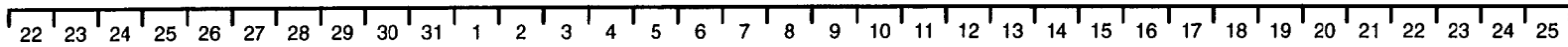
70.1

//////

64.4

//////

58.7



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Statistics for dp0006.00510

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.019	-5.1	0.0146	1.4	0.0047	91.4
2	19.0	0.022	-9.8	0.0180	1.1	0.0048	91.1
3	24.7	0.022	-13.4	0.0168	1.2	0.0047	91.2
4	30.4	0.021	-15.0	0.0151	1.0	0.0043	91.0
5	36.1	0.018	-22.1	0.0108	-0.4	0.0033	89.6
6	41.7	0.017	-23.5	0.0097	0.6	0.0031	90.6
7	47.4	0.017	-21.6	0.0087	0.2	0.0028	90.2
8	53.1	0.018	-26.1	0.0080	-3.4	0.0025	86.6
9	58.7	0.019	-28.8	0.0081	-6.1	0.0028	83.9
10	64.4	0.018	-32.1	0.0075	-8.8	0.0028	81.2
11	70.1	0.015	-33.6	0.0070	-9.1	0.0026	80.9
12	75.8	0.013	-24.4	0.0066	-11.1	0.0022	78.9
13	81.4	0.009	-31.7	0.0064	-11.6	0.0021	78.4
14	87.1	0.008	-48.4	0.0041	-11.3	0.0017	78.7
15	92.8	0.007	-35.8	0.0027	-14.4	0.0012	75.6
16	98.4	0.008	-36.2	0.0025	-13.7	0.0012	76.3

Statistics for dp0006.00510

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.021	6.1	0.0019	65.2	0.0010	155.2
2	19.0	0.023	1.0	0.0023	62.6	0.0013	152.6
3	24.7	0.023	-3.2	0.0021	67.3	0.0012	157.3
4	30.4	0.022	-5.6	0.0018	67.0	0.0010	157.0
5	36.1	0.019	-13.0	0.0013	69.1	0.0007	159.1
6	41.7	0.018	-14.8	0.0013	60.2	0.0007	150.2
7	47.4	0.018	-14.5	0.0012	48.6	0.0007	138.6
8	53.1	0.019	-20.3	0.0010	26.0	0.0009	116.0
9	58.7	0.021	-24.4	0.0011	-73.4	0.0010	16.6
10	64.4	0.019	-28.6	0.0013	-77.9	0.0010	12.1
11	70.1	0.016	-31.6	0.0013	-69.4	0.0008	20.6
12	75.8	0.013	-22.0	0.0012	-70.7	0.0005	19.3
13	81.4	0.009	-27.7	0.0011	-66.4	0.0005	23.6
14	87.1	0.008	-45.7	0.0008	-71.8	0.0004	18.2
15	92.8	0.008	-35.7	0.0006	-71.4	0.0002	18.6
16	98.4	0.009	-35.7	0.0006	-75.5	0.0002	14.5

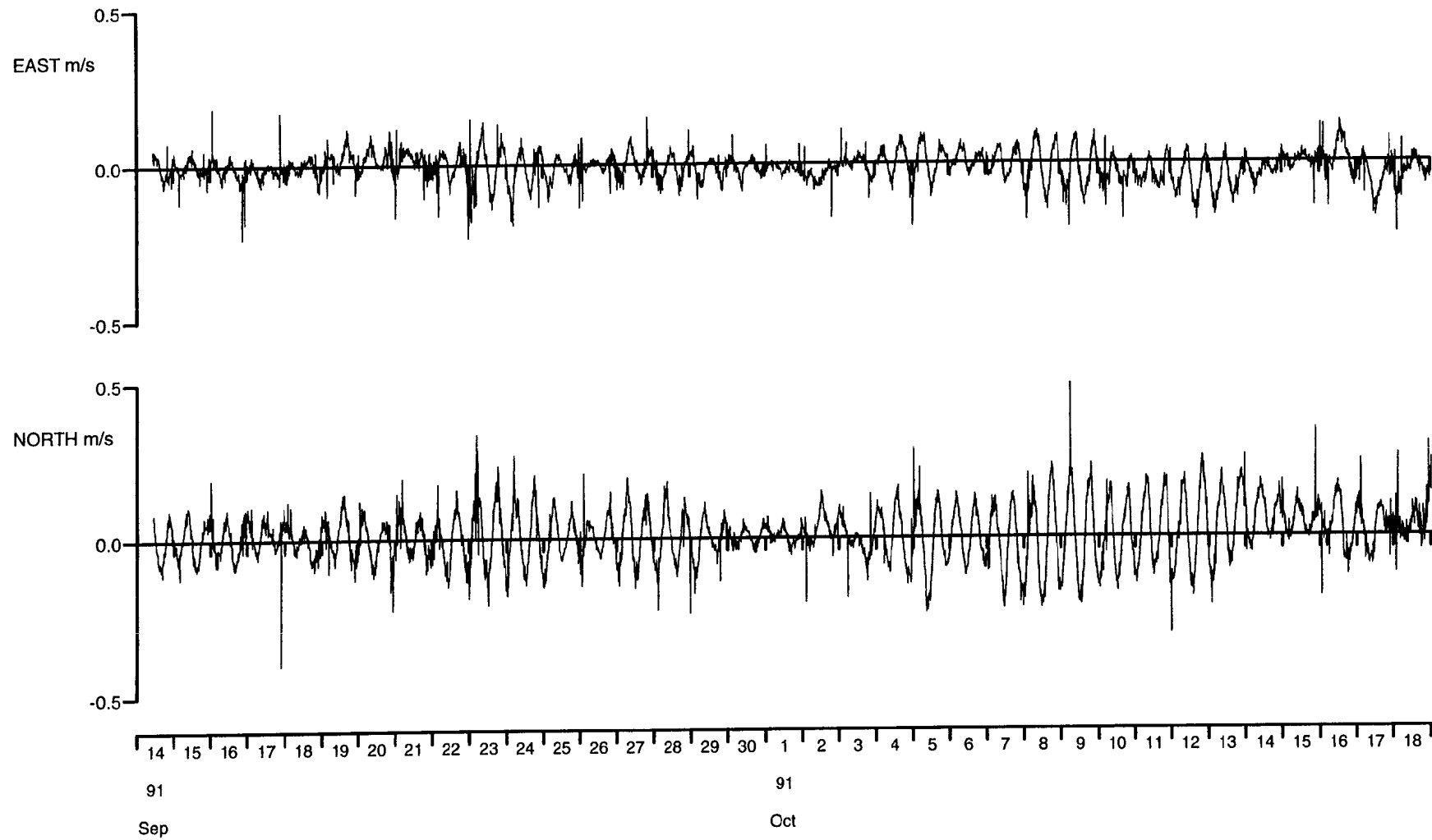
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



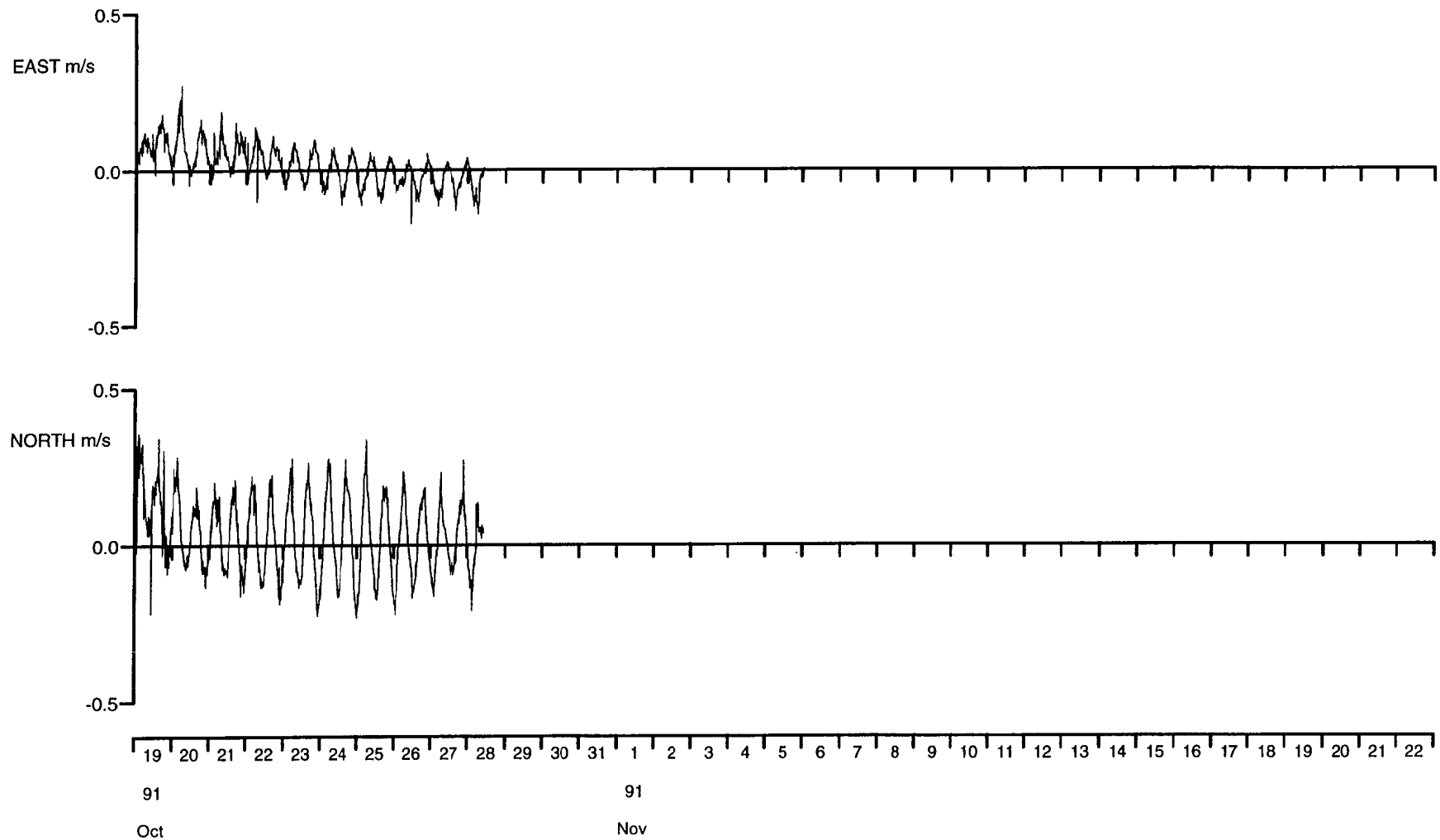
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



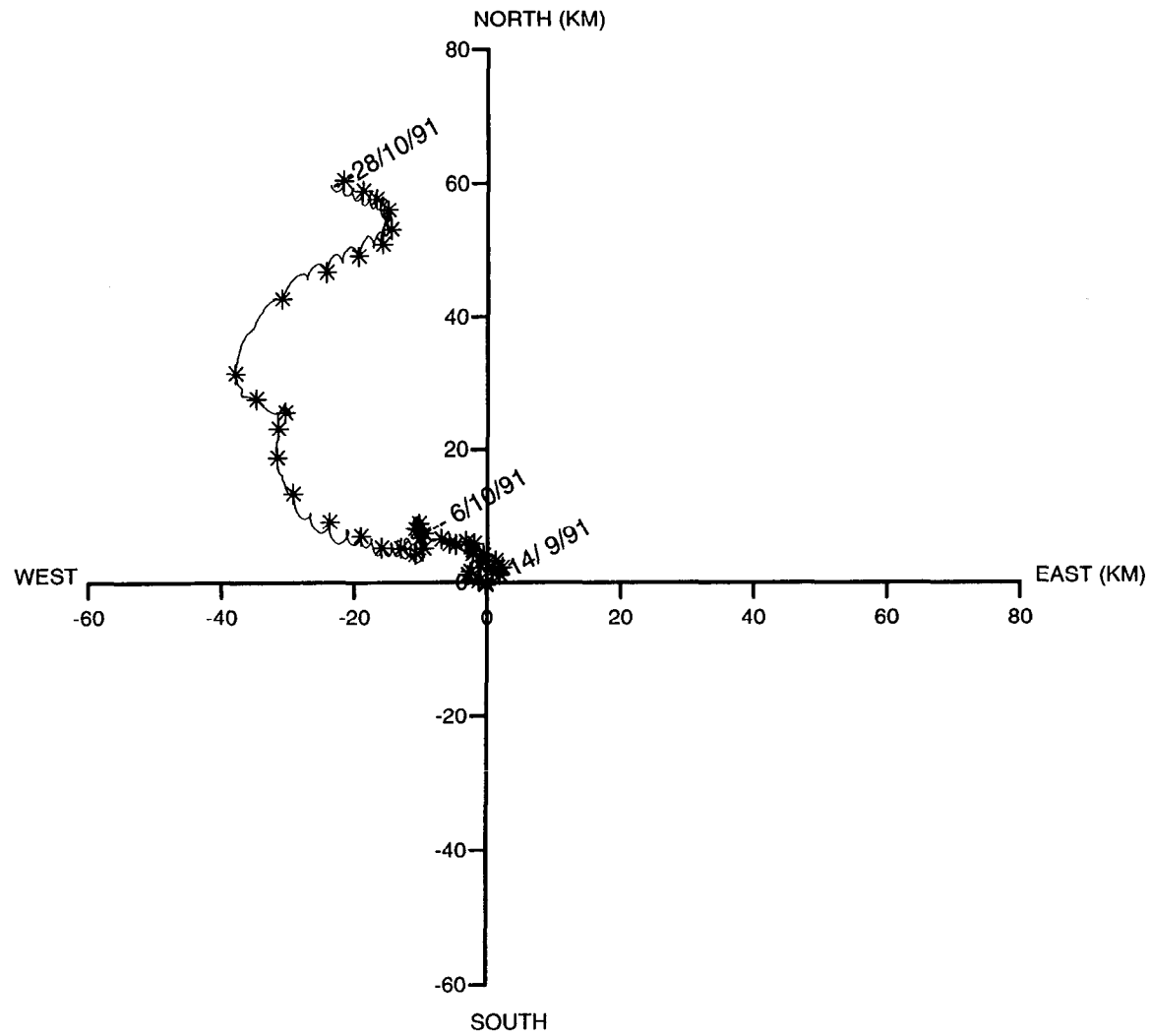
VECTOR PLOT

Meter no. 0006 Rig no. 00510 Depth of water(m) 120.0

Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00

Position 59 39.66N 00 59.85E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0006.00510s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0062	0.27649091E-02	0.52582402E-01
Northings	0.0157	0.87299533E-02	0.93434222E-01
Speed	0.0914	0.34267593E-02	0.58538526E-01
Vector mean speed	0.0169		
Vector Mean Direction	-21.6		

Maximum ten values

Eastings					Northings				
0.273	0.229	0.215	0.213	0.211	0.491	0.357	0.347	0.344	0.343
0.196	0.194	0.192	0.190	0.186	0.342	0.337	0.337	0.337	0.336

Minimum ten values

Eastings					Northings				
-0.184	-0.184	-0.186	-0.190	-0.195	-0.226	-0.226	-0.227	-0.228	-0.231
-0.202	-0.206	-0.230	-0.235	-0.236	-0.232	-0.239	-0.239	-0.308	-0.400

Maximum speeds

0.533	0.435	0.374	0.366	0.365	0.355	0.353	0.350	0.349	0.349
0.345	0.343	0.343	0.341	0.337	0.331	0.331	0.324	0.322	0.321
0.320	0.317	0.315	0.314	0.311	0.309	0.308	0.308	0.303	0.301
0.300	0.299	0.298	0.296	0.291	0.289	0.288	0.287	0.287	0.286
0.286	0.284	0.282	0.282	0.275	0.275	0.275	0.274	0.274	0.274
0.274	0.274	0.273	0.272	0.271	0.271	0.269	0.269	0.267	0.266
0.265	0.265	0.264	0.264	0.264	0.263	0.263	0.262	0.262	0.261
0.260	0.260	0.259	0.259	0.258	0.257	0.256	0.256	0.256	0.255
0.254	0.254	0.254	0.253	0.252	0.252	0.252	0.252	0.251	0.251
0.251	0.250	0.250	0.250	0.249	0.249	0.248	0.247	0.247	0.246

Variance ellipse statistics

Maximum variance	0.8730E-02	Direction	0.2
Minimum variance	0.2765E-02	Direction	90.2
Total variance	0.1149E-01	Ratio of variances	0.3167E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-6.4
Average direction. maxdir +PI/2 to maxdir -PI/2			181.8

Statistics for dp0006.00510s7f

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0044	0.96415146E-03	0.31050790E-01
Northings	0.0171	0.89644210E-03	0.29940642E-01
Speed	0.0349	0.94632828E-03	0.30762449E-01
Vector mean speed	0.0176		
Vector Mean Direction	-14.5		

Maximum ten values

Eastings					Northings				
0.098	0.096	0.089	0.079	0.075	0.151	0.151	0.128	0.126	0.093
0.062	0.058	0.058	0.055	0.055	0.087	0.074	0.073	0.069	0.068

Minimum ten values

Eastings					Northings				
-0.053	-0.055	-0.055	-0.057	-0.059	-0.013	-0.016	-0.017	-0.018	-0.021
-0.060	-0.063	-0.063	-0.067	-0.069	-0.024	-0.025	-0.029	-0.034	-0.036

Maximum speeds

0.170	0.160	0.159	0.135	0.127	0.108	0.087	0.085	0.084	0.084
0.082	0.079	0.078	0.074	0.071	0.069	0.068	0.068	0.068	0.066
0.066	0.062	0.061	0.061	0.061	0.060	0.060	0.059	0.059	0.059
0.054	0.054	0.053	0.052	0.052	0.051	0.051	0.051	0.048	0.047
0.044	0.044	0.044	0.043	0.043	0.042	0.040	0.039	0.037	0.037
0.035	0.035	0.034	0.033	0.032	0.031	0.031	0.029	0.029	0.029
0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027
0.027	0.026	0.026	0.026	0.026	0.026	0.025	0.025	0.025	0.025
0.024	0.024	0.023	0.023	0.023	0.022	0.022	0.022	0.021	0.021
0.021	0.021	0.020	0.020	0.019	0.019	0.019	0.019	0.018	0.018

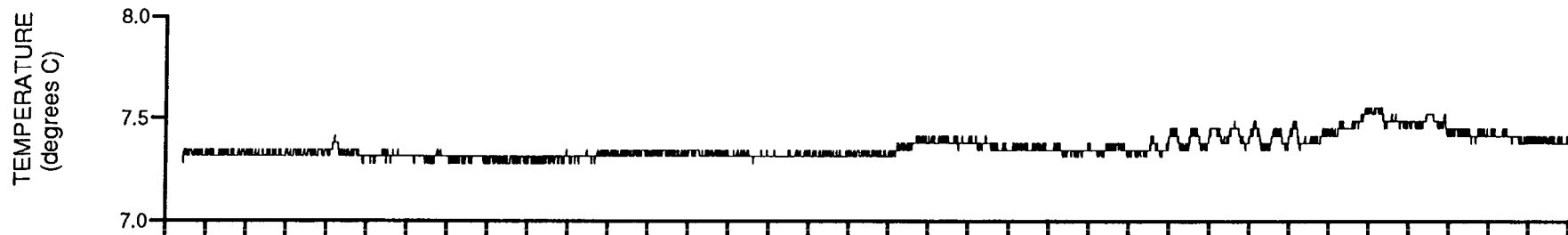
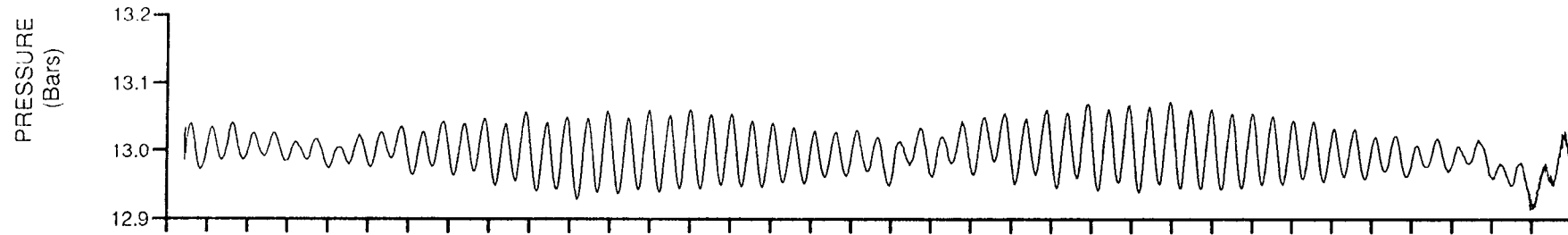
Variance ellipse statistics

Maximum variance	0.1199E-02	Direction	48.6
Minimum variance	0.6615E-03	Direction	138.6
Total variance	0.1861E-02	Ratio of variances	0.5517E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	-23.2		
Average direction. maxdir +PI/2 to maxdir -PI/2	216.7		

Meter information details for 0444

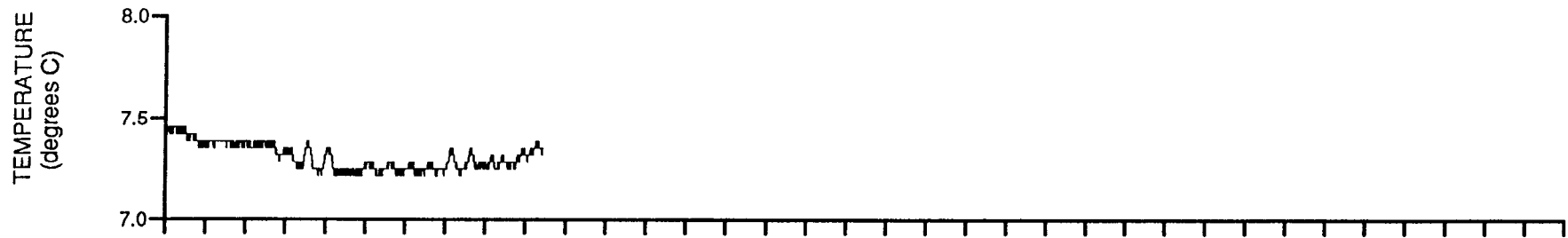
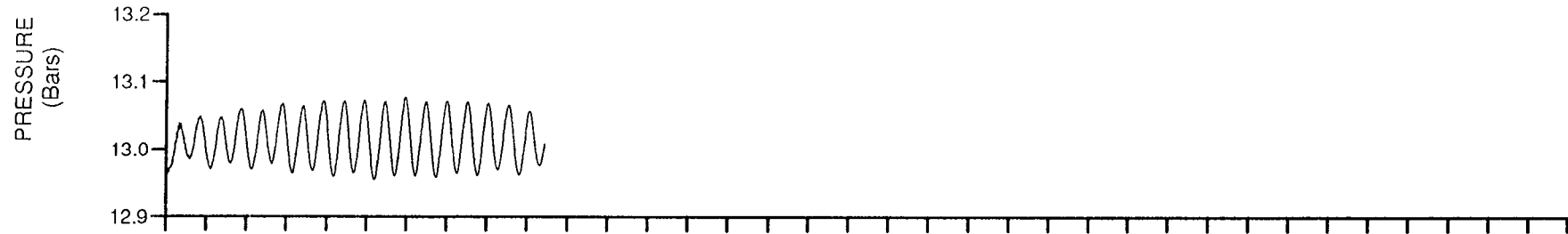
Rig No	:	00510
Meter No	:	0444
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Position of meter on rig	:	A
Meter type	:	WR
Meter started	:	14-SEP-91 09:30:00
Meter stopped	:	29-OCT-91 08:42:00
Period switched on	:	45.0 days
Period of good data	:	44.0 days
Total number of scans	:	6336
Timing error	:	120 seconds slow
Comments	:	Good record obtained

Meter no. 0444 Rig no. 00510 Depth of water(m) 120.0
Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00
Position 59 39.66N 00 59.85E Meter Height(m) 0.8



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
91 91
Sep Oct

Meter no. 0444 Rig no. 00510 Depth of water(m) 120.0
Start/End 1991/09/14 AT 10:30:00 1991/10/28 AT 10:28:00
Position 59 39.66N 00 59.85E Meter Height(m) 0.8



19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
91 91
Oct Nov

Rig information details for 00516

Position Latitude	:	59 39.64N
Position Longitude	:	01 00.01E
Water depth	:	120.0 m
Deployed on cruise	:	C85
Recovered on cruise	:	C85
Site name identification	:	AA3
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	29-OCT-91 11:31:00
Rig recovered on	:	07-NOV-91 10:05:00
Period of deployment	:	8.9 days
Comments	:	Launch and recovery successful

Meter information details for 0006

Rig No	:	00516
Meter No	:	0006
Frame angle correction	:	-18.9 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	29-OCT-91 11:19:31
Meter stopped	:	07-NOV-91 09:59:27
Period switched on	:	8.9 days
Period of good data	:	8.9 days
Total number of scans	:	1287
Timing error	:	4 seconds fast
Comments	:	Good record obtained

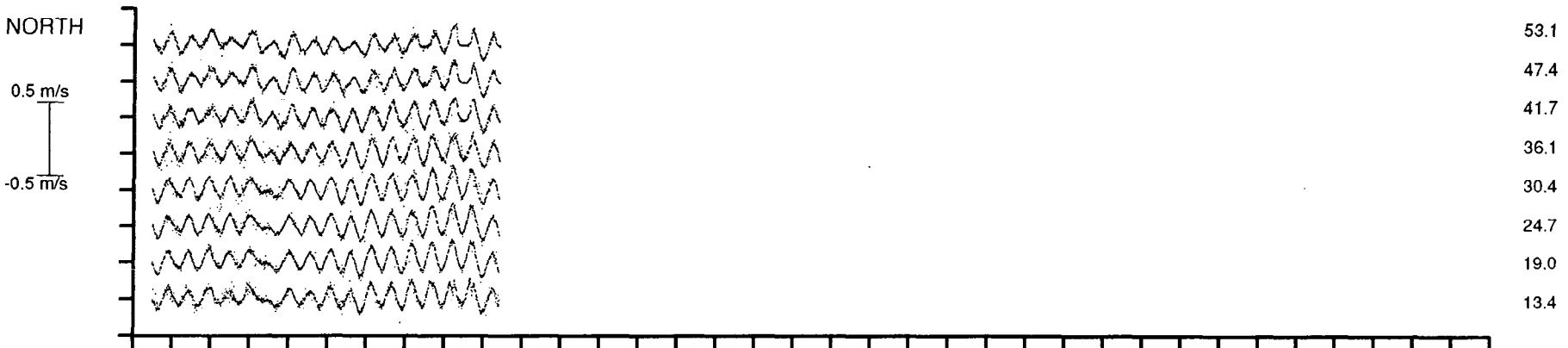
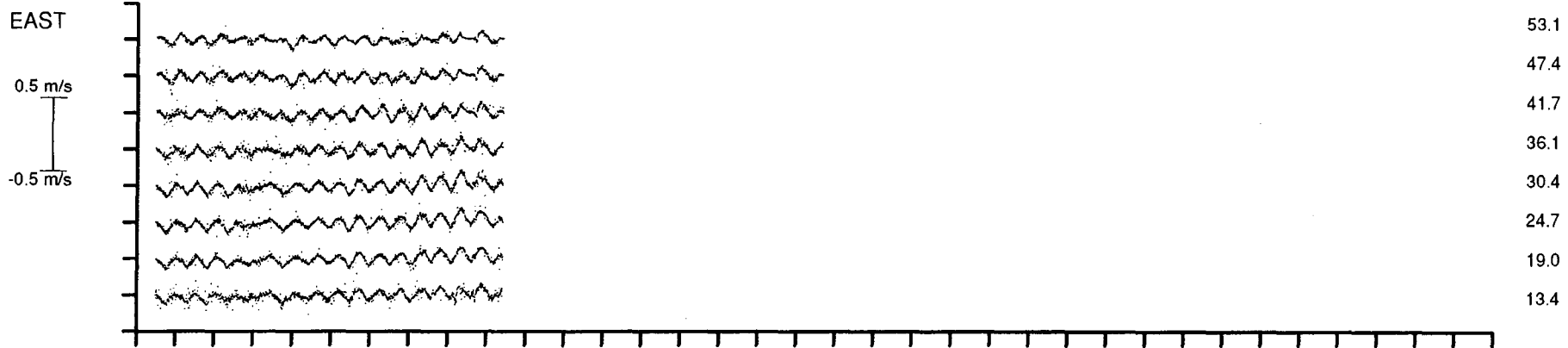
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2
91 91 91
Oct Nov Dec

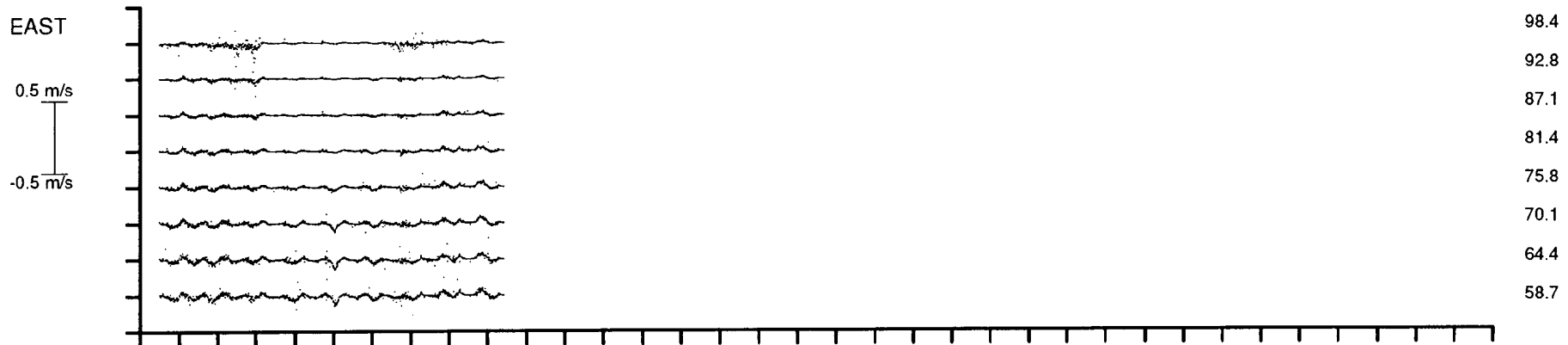
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



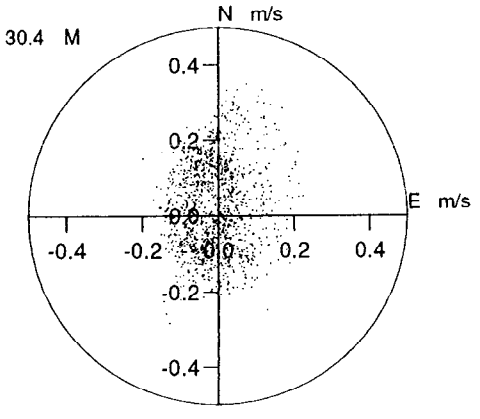
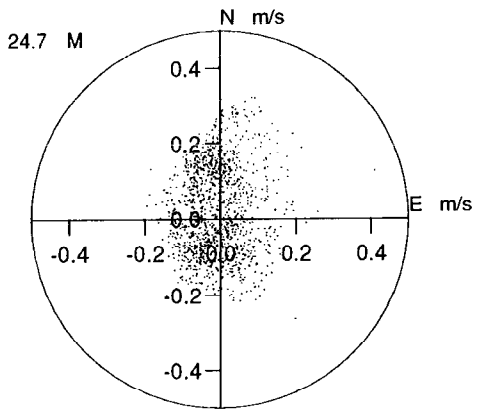
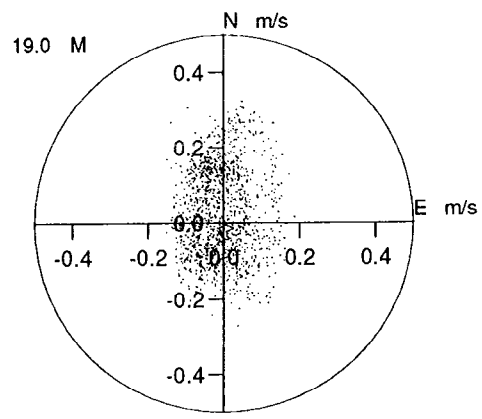
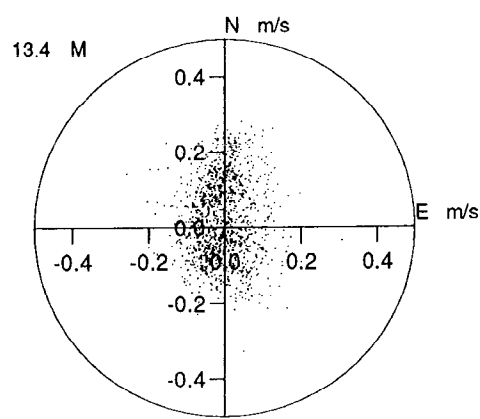
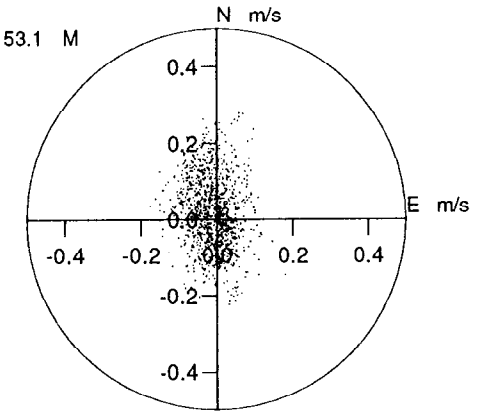
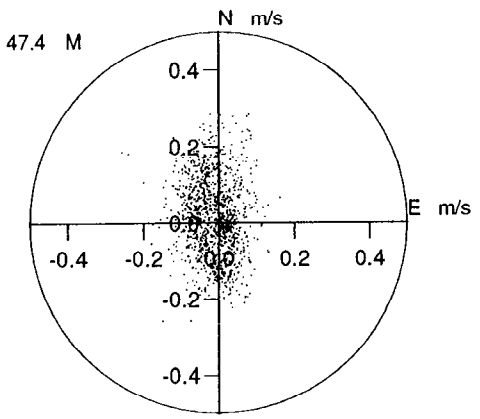
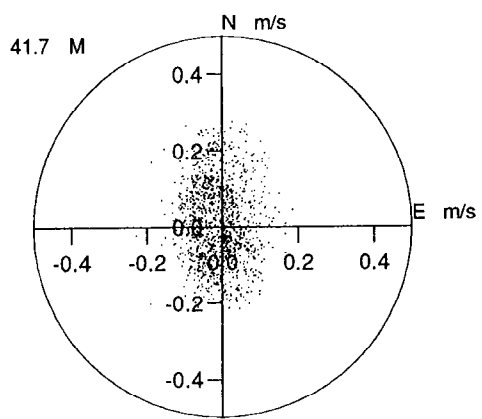
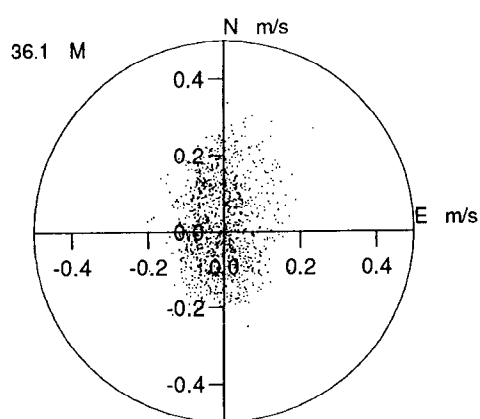
29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2
91 91 91
Oct Nov Dec

SCATTER PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht

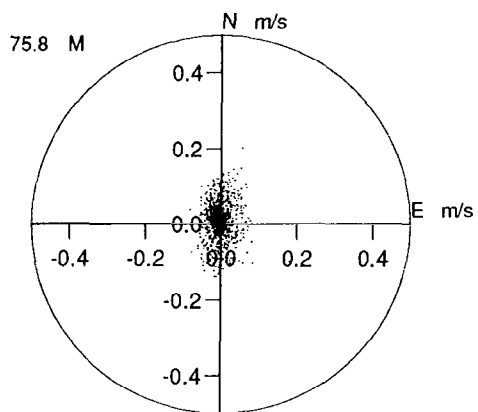
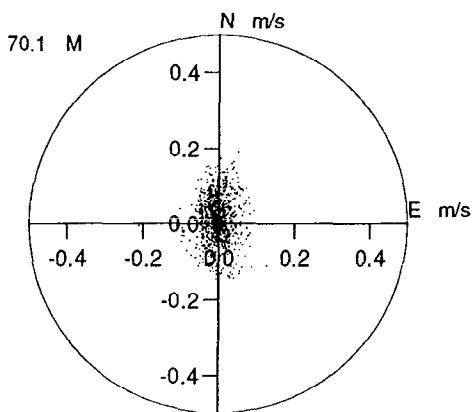
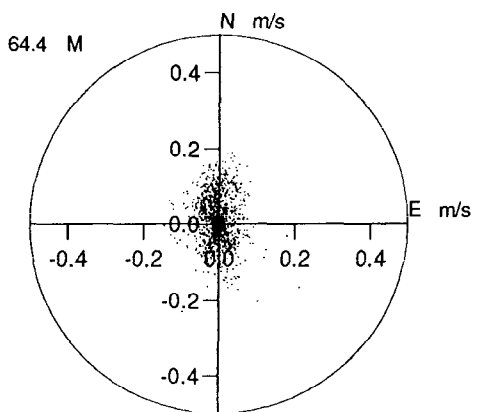
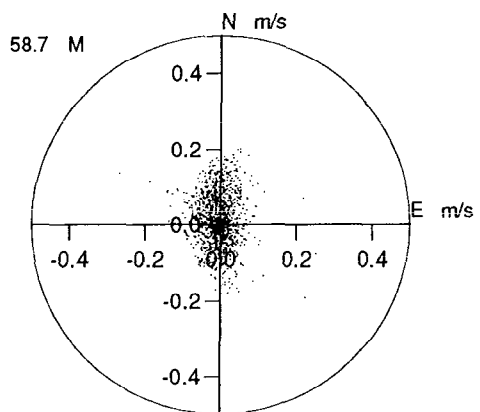
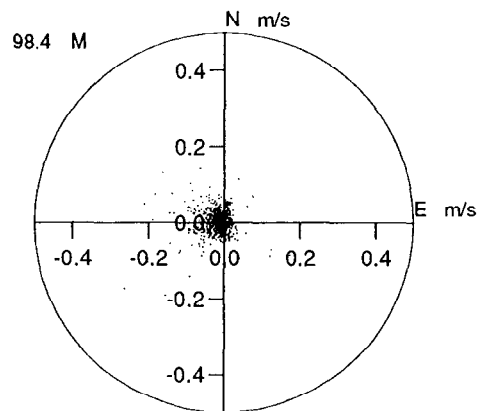
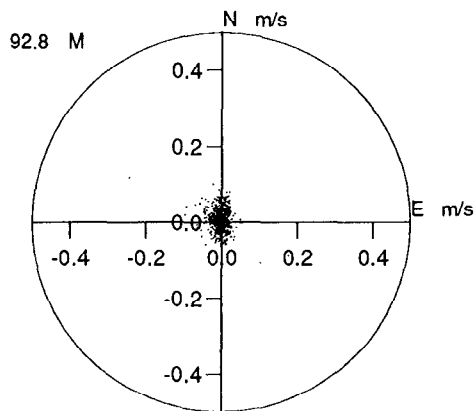
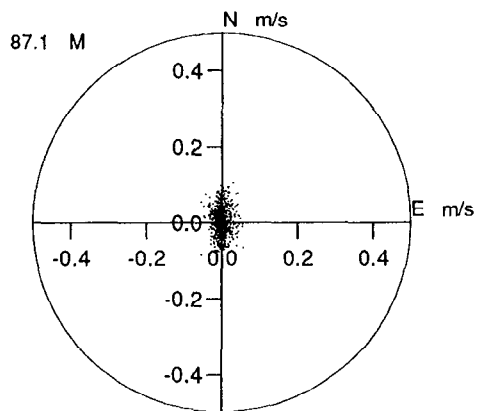
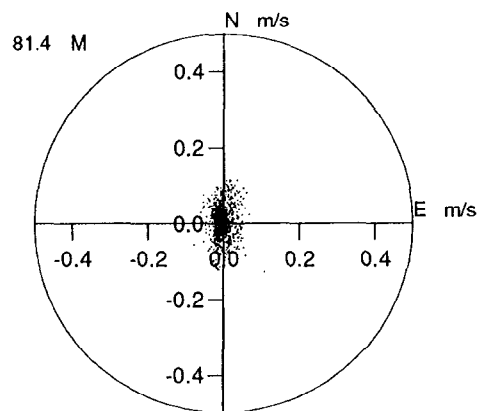


SCATTER PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

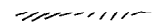
Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht

Filtered series

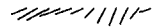
Scale 0.1 m/s

—

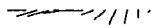
Bin Ht (m)



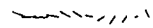
53.1



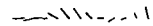
47.4



41.7



36.1



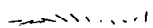
30.4



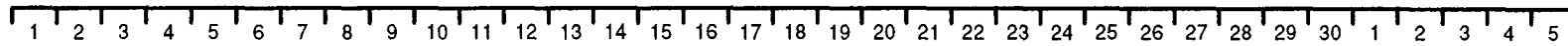
24.7



19.0



13.4



91

91

Nov

Dec

STICK TIME SERIES PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

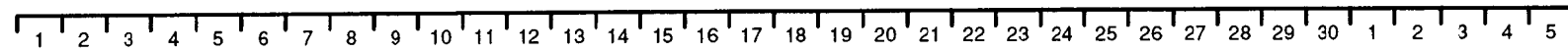
Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



91

Nov

91

Dec

Statistics for dp0006.00516

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.024	-17.1	0.0111	1.4	0.0037	91.4
2	19.0	0.029	-13.3	0.0137	2.7	0.0040	92.7
3	24.7	0.027	-15.7	0.0133	3.8	0.0046	93.8
4	30.4	0.027	-18.7	0.0136	5.2	0.0047	95.2
5	36.1	0.023	-24.4	0.0120	2.8	0.0036	92.8
6	41.7	0.017	-38.1	0.0106	-2.7	0.0031	87.3
7	47.4	0.019	-44.4	0.0099	-5.1	0.0025	84.9
8	53.1	0.020	-31.9	0.0078	-5.6	0.0020	84.4
9	58.7	0.014	-20.0	0.0042	-2.7	0.0013	87.3
10	64.4	0.012	-17.2	0.0037	-2.7	0.0010	87.3
11	70.1	0.009	-20.9	0.0029	-0.4	0.0007	89.6
12	75.8	0.006	-19.6	0.0021	1.6	0.0005	91.6
13	81.4	0.005	-23.1	0.0013	1.2	0.0003	91.2
14	87.1	0.005	-27.1	0.0007	0.2	0.0002	90.2
15	92.8	0.005	-36.1	0.0005	-10.4	0.0003	79.6
16	98.4	0.011	-81.5	0.0007	-85.4	0.0006	4.6

Statistics for dp0006.00516

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.013	-71.2	0.0003	81.1	0.0001	171.1
2	19.0	0.014	-63.3	0.0002	19.4	0.0000	109.4
3	24.7	0.015	-68.9	0.0001	9.7	0.0001	99.7
4	30.4	0.017	-67.7	0.0001	16.6	0.0000	106.6
5	36.1	0.018	-85.4	0.0001	-36.2	0.0001	53.8
6	41.7	0.028	-113.5	0.0003	-63.5	0.0001	26.5
7	47.4	0.036	-126.6	0.0002	-61.5	0.0001	28.5
8	53.1	0.025	-116.8	0.0001	72.8	0.0000	162.8
9	58.7	0.016	-125.6	0.0000	-2.1	0.0000	87.9
10	64.4	0.015	-129.6	0.0000	-41.6	0.0000	48.4
11	70.1	0.015	-140.0	0.0000	18.9	0.0000	108.9
12	75.8	0.013	-145.0	0.0000	19.8	0.0000	109.8
13	81.4	0.010	-147.8	0.0000	17.2	0.0000	107.2
14	87.1	0.006	-143.9	0.0000	25.1	0.0000	115.1
15	92.8	0.003	-128.1	0.0000	31.3	0.0000	121.3
16	98.4	0.003	-124.4	0.0000	86.9	0.0000	176.9

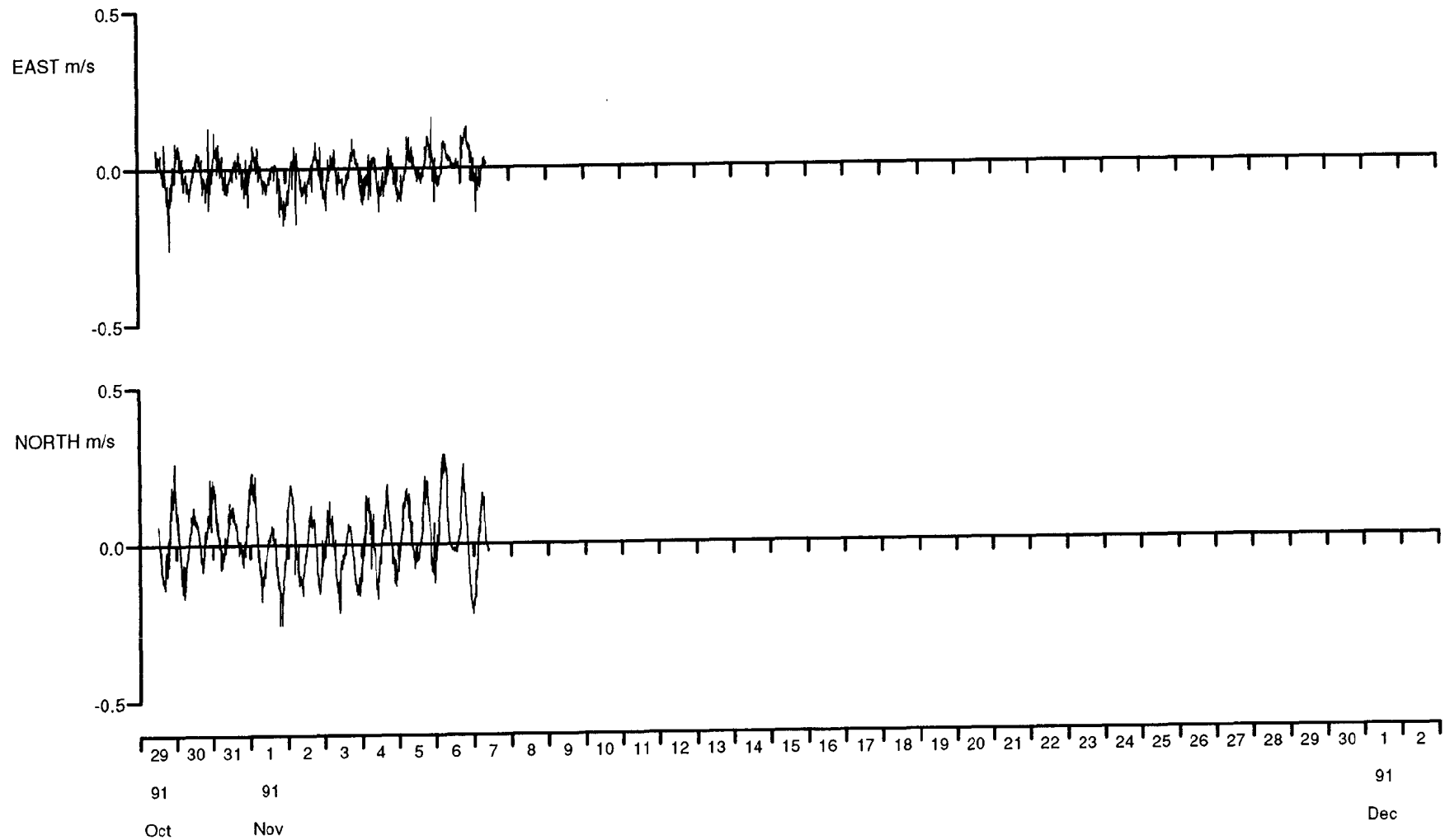
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



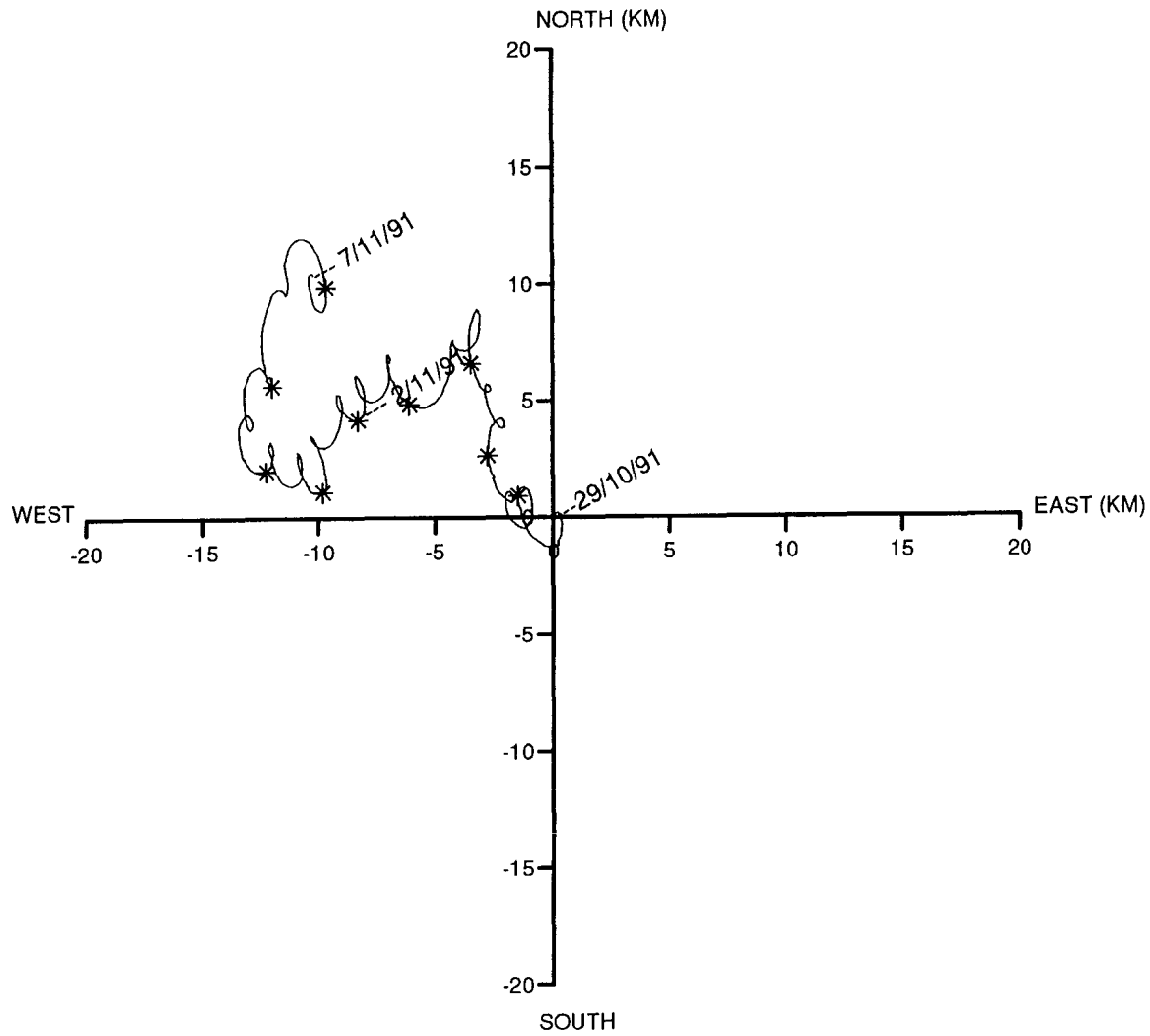
VECTOR PLOT

Meter no. 0006 Rig no. 00516 Depth of water(m) 120.0

Start/End 1991/10/29 AT 11:31:00 1991/11/07 AT 10:05:00

Position 59 39.64N 01 00.01E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0006.00516s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0132	0.25441716E-02	0.50439782E-01
Northings	0.0135	0.98047461E-02	0.99018916E-01
Speed	0.0977	0.31448081E-02	0.56078587E-01
Vector mean speed	0.0189		
Vector Mean Direction	-44.4		

Maximum ten values

Eastings					Northings				
0.162	0.131	0.131	0.129	0.123	0.285	0.285	0.283	0.280	0.280
0.116	0.113	0.111	0.101	0.101	0.261	0.260	0.259	0.255	0.252

Minimum ten values

Eastings					Northings				
-0.145	-0.147	-0.150	-0.156	-0.159	-0.195	-0.196	-0.198	-0.209	-0.212
-0.176	-0.179	-0.200	-0.240	-0.257	-0.212	-0.217	-0.224	-0.256	-0.257

Maximum speeds

0.317	0.301	0.297	0.296	0.289	0.286	0.283	0.282	0.267	0.264
0.263	0.261	0.256	0.256	0.255	0.255	0.254	0.250	0.247	0.247
0.244	0.240	0.239	0.238	0.237	0.229	0.229	0.228	0.228	0.227
0.226	0.226	0.224	0.224	0.224	0.221	0.220	0.220	0.220	0.219
0.216	0.216	0.214	0.211	0.210	0.209	0.209	0.208	0.208	0.208
0.207	0.206	0.204	0.204	0.204	0.202	0.200	0.200	0.199	0.198
0.198	0.198	0.198	0.197	0.197	0.197	0.197	0.196	0.196	0.196
0.195	0.194	0.194	0.193	0.192	0.192	0.192	0.190	0.189	0.189
0.189	0.189	0.188	0.188	0.187	0.187	0.187	0.187	0.186	0.186
0.186	0.185	0.185	0.184	0.183	0.183	0.182	0.182	0.182	0.181

Variance ellipse statistics

Maximum variance	0.9864E-02	Direction	-5.1
Minimum variance	0.2485E-02	Direction	84.9
Total variance	0.1235E-01	Ratio of variances	0.2519E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	-7.8		
Average direction. maxdir +PI/2 to maxdir -PI/2	182.7		

Statistics for dp0006.00516s7f

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0285	0.13831901E-03	0.11760911E-01
Northings	-0.0212	0.88893335E-04	0.94283260E-02
Speed	0.0374	0.82934297E-04	0.91068270E-02
Vector mean speed	0.0356		
Vector Mean Direction	-126.6		

Maximum ten values

Eastings					Northings				
-0.016	-0.017	-0.017	-0.019	-0.020	-0.008	-0.011	-0.012	-0.013	-0.018
-0.024	-0.026	-0.033	-0.036	-0.043	-0.020	-0.023	-0.025	-0.025	-0.031

Minimum ten values

Eastings					Northings				
-0.017	-0.019	-0.020	-0.024	-0.026	-0.012	-0.013	-0.018	-0.020	-0.023
-0.033	-0.036	-0.043	-0.044	-0.048	-0.025	-0.025	-0.031	-0.034	-0.037

Maximum speeds

0.054	0.050	0.048	0.040	0.038	0.037	0.035	0.035	0.030	0.029
0.028	0.025								

Variance ellipse statistics

Maximum variance	0.1589E-03	Direction	-61.5
Minimum variance	0.6834E-04	Direction	28.5
Total variance	0.2272E-03	Ratio of variances	0.4301E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	0.0		
Average direction. maxdir +PI/2 to maxdir -PI/2	267.7		

Rig information details for 00493

Position Latitude	:	59 39.84N
Position Longitude	:	01 00.75E
Water depth	:	118.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	AF
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	06-SEP-91 18:18:00
Rig recovered on	:	15-SEP-91 12:40:00
Period of deployment	:	8.8 days
Comments	:	Launch and recovery successful

Meter information details for 1644

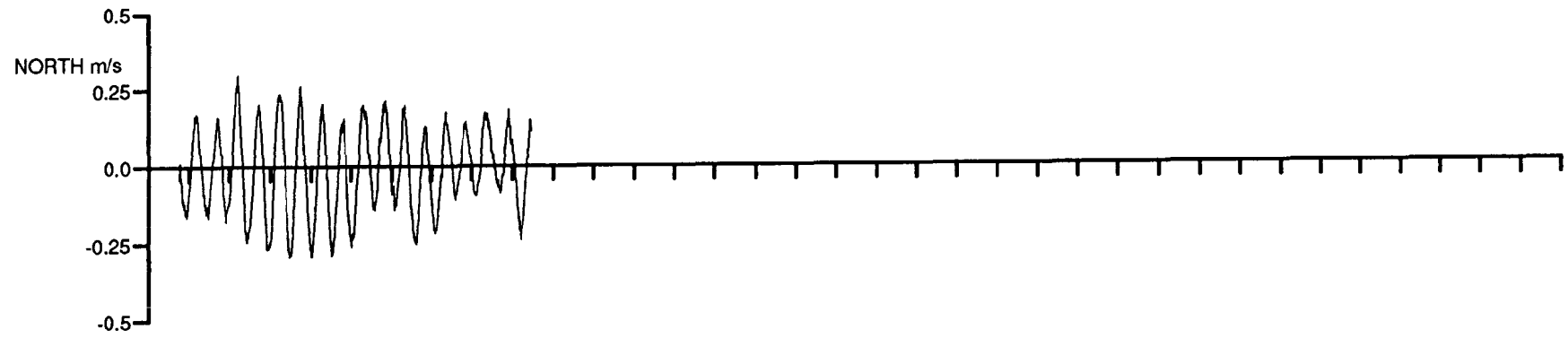
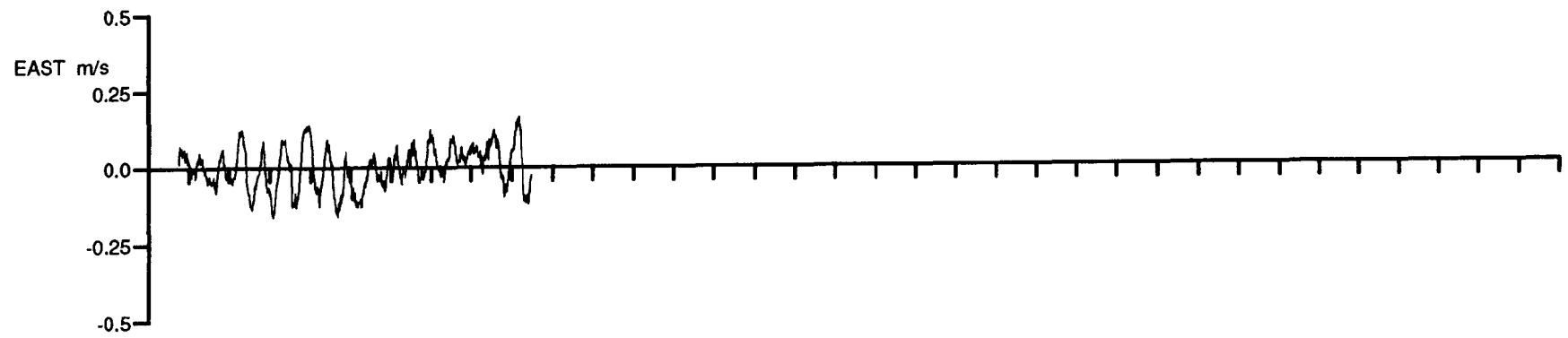
Rig No	:	00493
Meter No	:	1644
Recording interval	:	600.0 seconds
Meter depth	:	5.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	06-SEP-91 16:00:00
Time of last valid scan	:	15-SEP-91 11:50:00
Period of good data	:	8.7 days short record
Total number of scans	:	1258
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1644 Rig no. 00493 Depth of water(m) 118.0

Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00

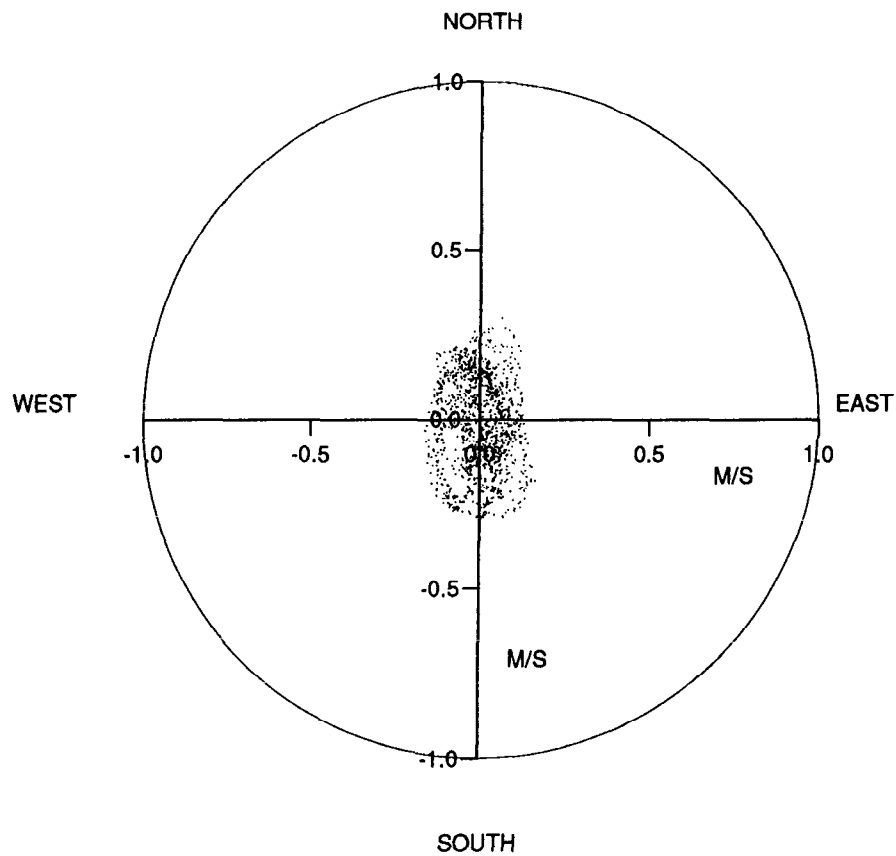
Position 59 39.84N 01 00.75E Meter Depth(m) 5.0



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
91 91
Sep Oct

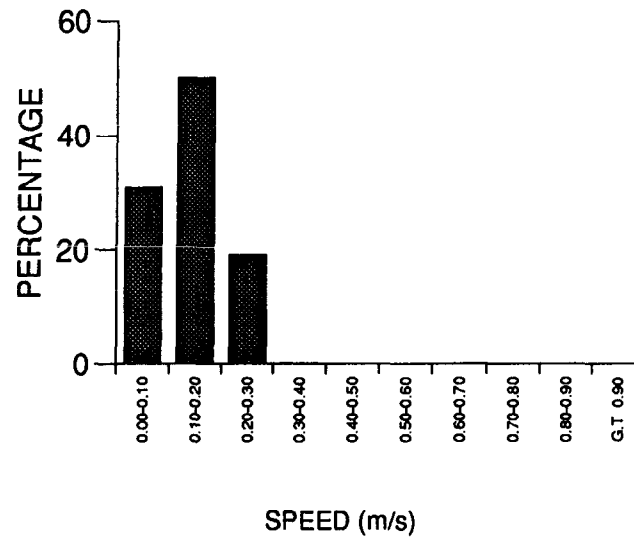
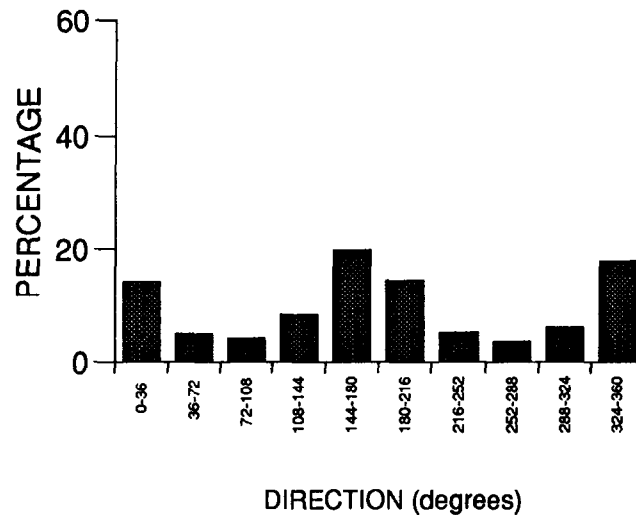
SCATTER PLOT

Meter no. 1644 Rig no. 00493 Depth of water(m) 118.0
 Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00
 Position 59 39.84N 01 00.75E Meter Depth(m) 5.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1644 Rig no. 00493 Depth of water(m) 118.0
 Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00
 Position 59 39.84N 01 00.75E Meter Depth(m) 5.0

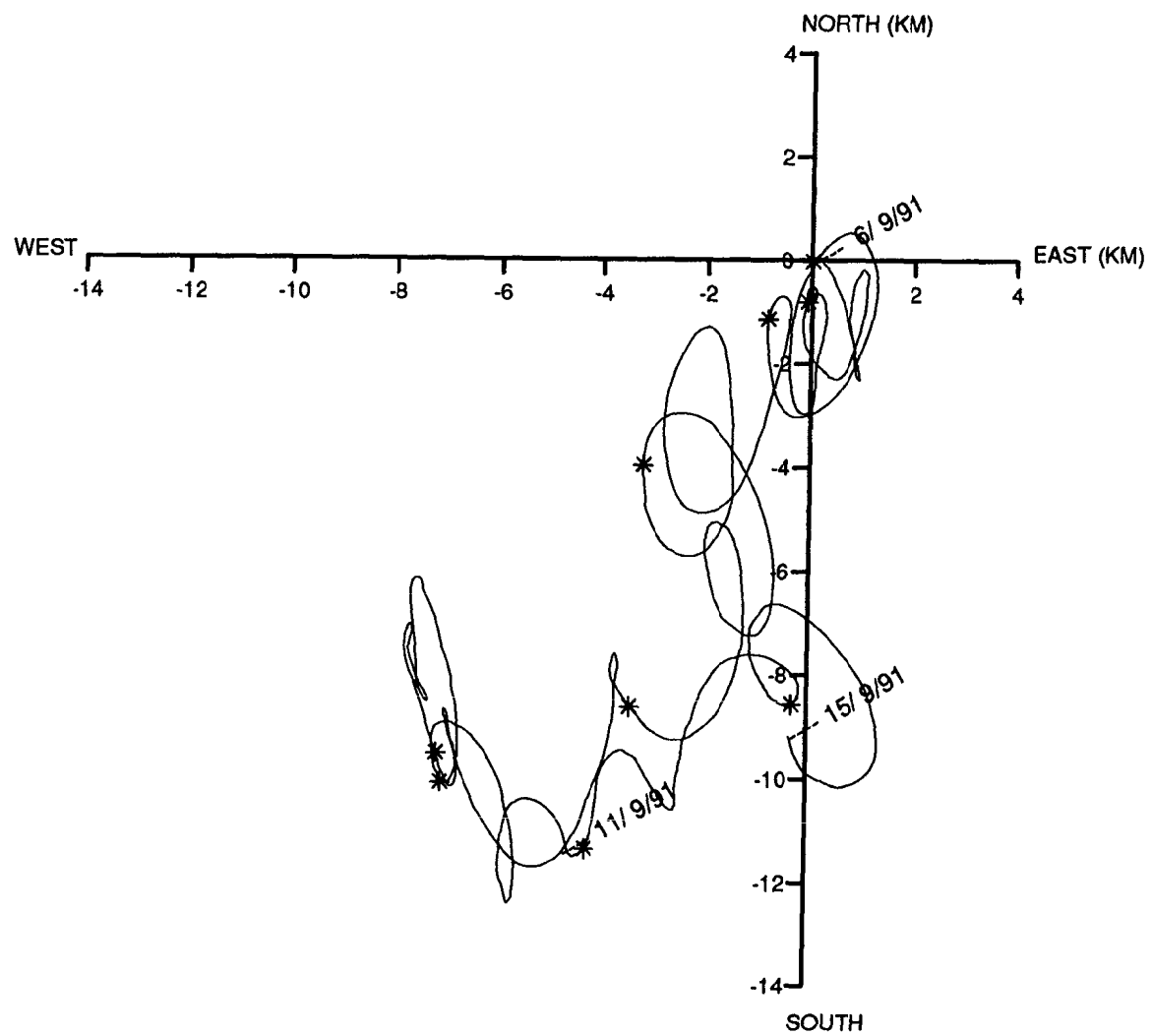


VECTOR PLOT

Meter no. 1644 Rig no. 00493 Depth of water(m) 118.0

Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00

Position 59 39.84N 01 00.75E Meter Depth(m) 5.0



Statistics for s41644t.00493s

	Mean	Variance	Standard deviation
Eastings	-0.0004	0.43940861E-02	0.66287905E-01
Northings	-0.0122	0.18707404E-01	0.13677500E+00
Speed	0.1381	0.41539236E-02	0.64450935E-01
Vector mean speed	0.0122		
Vector Mean Direction	-178.0		

Maximum ten values

Eastings					Northings				
0.164	0.154	0.152	0.152	0.148	0.297	0.271	0.270	0.267	0.263
0.141	0.141	0.139	0.138	0.137	0.261	0.258	0.257	0.253	0.249

Minimum ten values

Eastings					Northings				
-0.144	-0.148	-0.149	-0.149	-0.149	-0.284	-0.285	-0.287	-0.287	-0.287
-0.151	-0.153	-0.156	-0.157	-0.162	-0.288	-0.288	-0.291	-0.291	-0.292

Maximum speeds

0.304	0.299	0.293	0.292	0.291	0.289	0.288	0.288	0.287	0.287
0.287	0.284	0.284	0.284	0.284	0.284	0.281	0.280	0.280	0.280
0.280	0.280	0.277	0.277	0.276	0.276	0.275	0.275	0.274	0.274
0.274	0.273	0.272	0.272	0.272	0.272	0.270	0.270	0.269	0.269
0.269	0.268	0.268	0.268	0.267	0.267	0.267	0.266	0.266	0.266
0.264	0.263	0.262	0.262	0.262	0.262	0.260	0.259	0.259	0.258
0.258	0.257	0.256	0.254	0.254	0.254	0.254	0.253	0.252	0.252
0.250	0.250	0.250	0.250	0.249	0.249	0.249	0.249	0.249	0.249
0.248	0.248	0.248	0.248	0.248	0.247	0.247	0.247	0.246	0.246
0.246	0.246	0.244	0.244	0.244	0.244	0.244	0.244	0.243	0.243

Variance ellipse statistics

Maximum variance	0.1874E-01	Direction	-2.8
Minimum variance	0.4359E-02	Direction	87.2
Total variance	0.2310E-01	Ratio of variances	0.2326E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	0.9		
Average direction. maxdir +PI/2 to maxdir -PI/2	176.8		

Statistics for s41644t.00493sf

	Mean	Variance	Standard deviation
Eastings	-0.0225	0.91622170E-03	0.30269155E-01
Northings	-0.0159	0.14334123E-02	0.37860431E-01
Speed	0.0502	0.41551600E-03	0.20384209E-01
Vector mean speed	0.0276		
Vector Mean Direction	-125.2		

Maximum ten values

Eastings					Northings				
0.014	0.013	0.009	-0.003	-0.005	0.042	0.030	0.030	0.001	-0.001
-0.021	-0.032	-0.042	-0.055	-0.060	-0.031	-0.032	-0.042	-0.055	-0.055

Minimum ten values

Eastings					Northings				
0.013	0.009	-0.003	-0.005	-0.021	0.030	0.030	0.001	-0.001	-0.031
-0.032	-0.042	-0.055	-0.060	-0.066	-0.032	-0.042	-0.055	-0.055	-0.062

Maximum speeds

0.078 0.073 0.069 0.060 0.055 0.052 0.047 0.044 0.034 0.030
0.009

Variance ellipse statistics

Maximum variance	0.1434E-02	Direction	1.2
Minimum variance	0.9160E-03	Direction	91.2
Total variance	0.2350E-02	Ratio of variances	0.6389E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-30.3
Average direction. maxdir +PI/2 to maxdir -PI/2			191.9

Meter information details for 0604

Rig No	:	00493
Meter No	:	0604
Recording interval	:	450.0 seconds
Meter depth	:	7.0 m
Position of meter on rig	:	MT
Meter type	:	VM
Period of good data	:	0.0 days
Comments	:	Compass failure

Meter information details for 0704

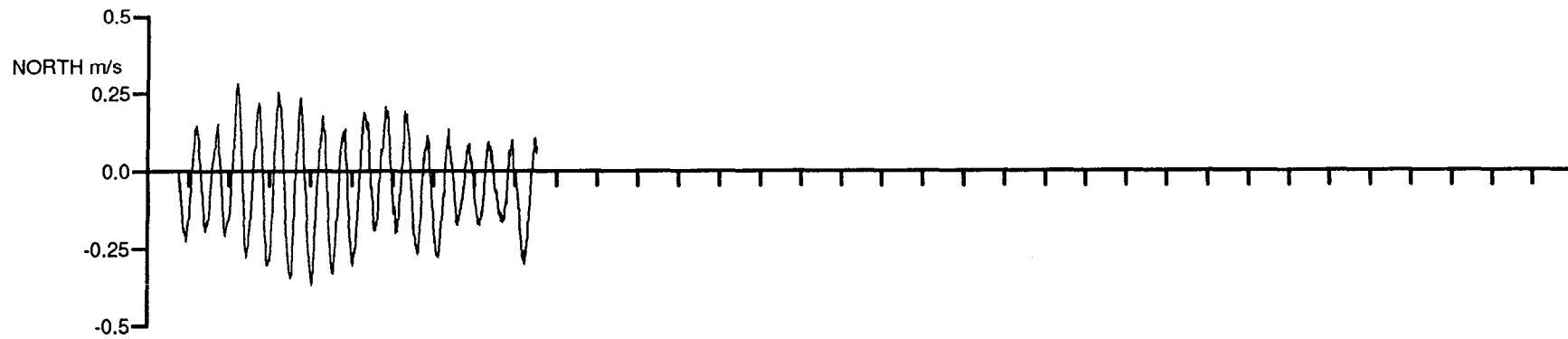
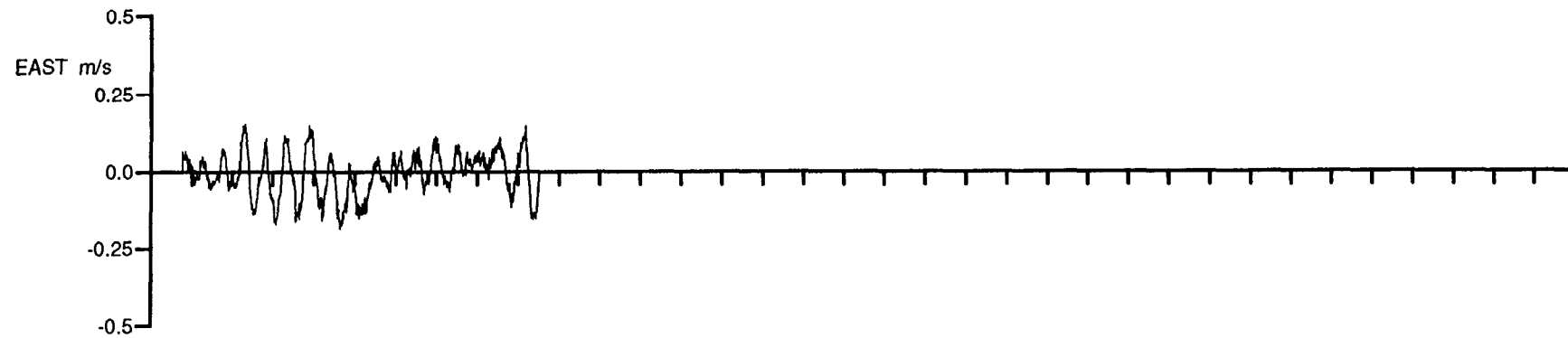
Rig No	:	00493
Meter No	:	0704
Recording interval	:	450.0 seconds
Meter depth	:	12.0 m
Position of meter on rig	:	MB
Meter type	:	VM
Meter started	:	06-SEP-91 08:50:00
Meter stopped	:	15-SEP-91 12:42:30
Period switched on	:	9.2 days
Period of good data	:	8.8 days
Total number of scans	:	1683
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0704 Rig no. 00493 Depth of water(m) 118.0

Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00

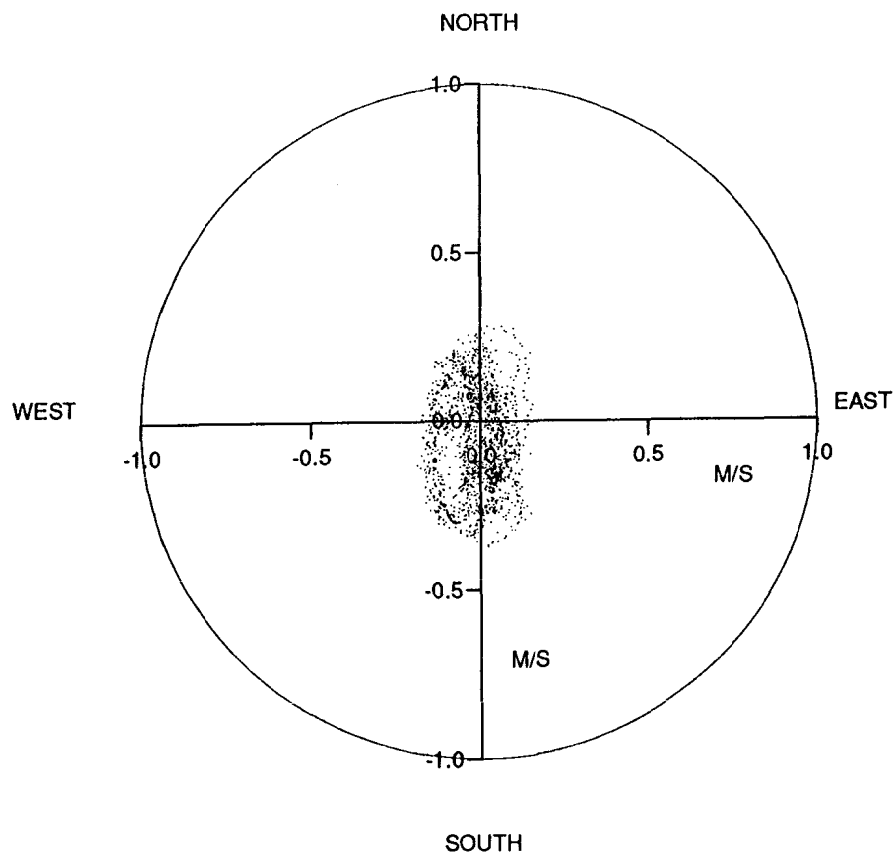
Position 59 39.84N 01 00.75E Meter Depth(m) 12.0



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
91 91
Sep Oct

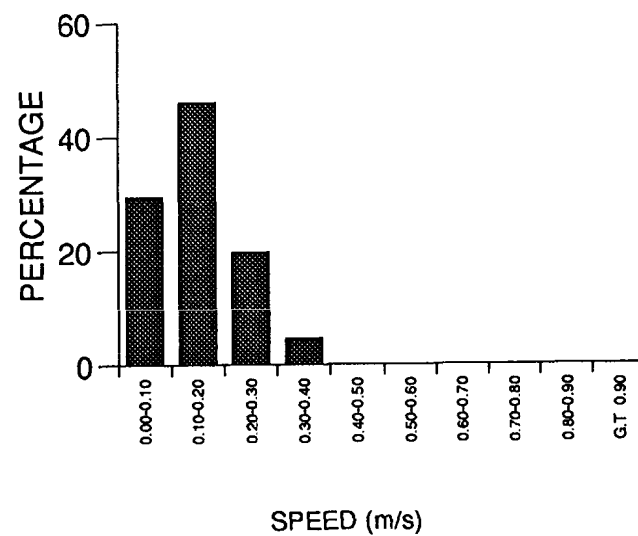
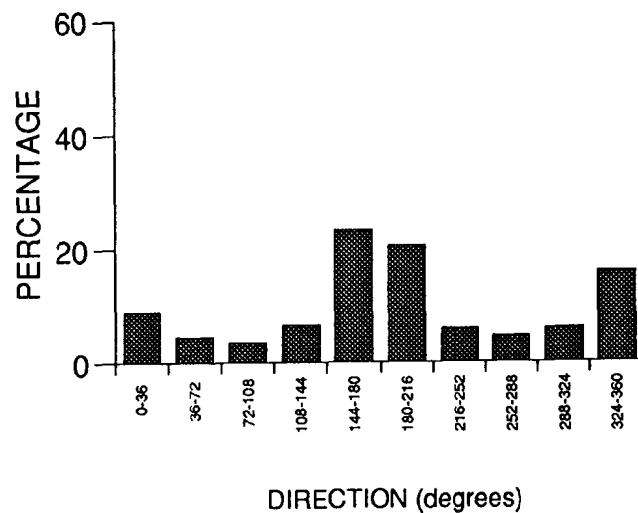
SCATTER PLOT

Meter no. 0704 Rig no. 00493 Depth of water(m) 118.0
 Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00
 Position 59 39.84N 01 00.75E Meter Depth(m) 12.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0704 Rig no. 00493 Depth of water(m) 118.0
 Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00
 Position 59 39.84N 01 00.75E Meter Depth(m) 12.0

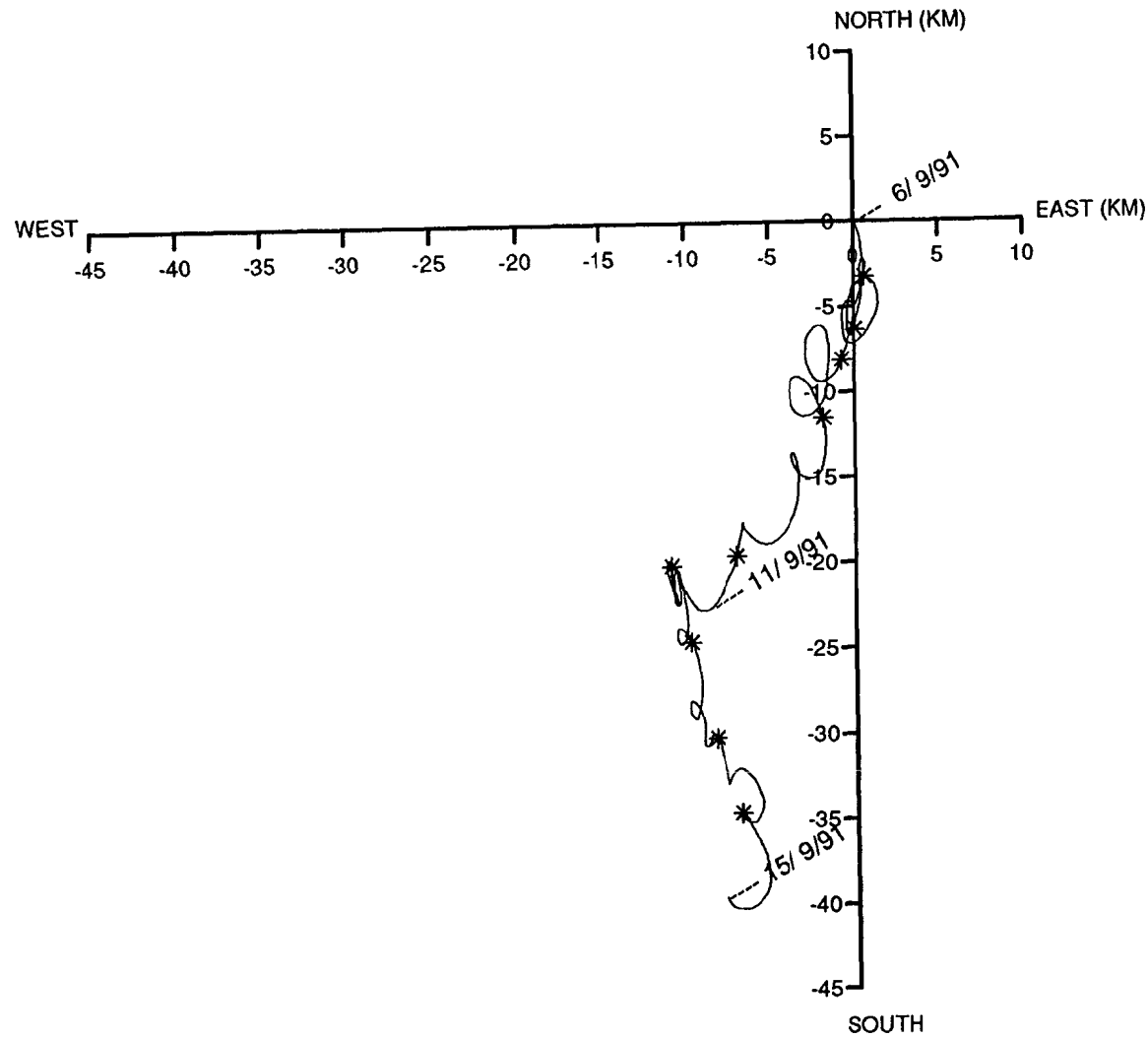


VECTOR PLOT

Meter no. 0704 Rig no. 00493 Depth of water(m) 118.0

Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00

Position 59 39.84N 01 00.75E Meter Depth(m) 12.0



Statistics for vm0704mb.00493s

	Mean	Variance	Standard deviation
Eastings	-0.0102	0.48026051E-02	0.69300830E-01
Northings	-0.0522	0.21082442E-01	0.14519793E+00
Speed	0.1506	0.60213432E-02	0.77597313E-01
Vector mean speed	0.0531		
Vector Mean Direction	-169.0		

Maximum ten values

Eastings					Northings				
0.151	0.148	0.147	0.146	0.145	0.281	0.280	0.274	0.274	0.273
0.143	0.142	0.139	0.138	0.138	0.271	0.267	0.265	0.261	0.260

Minimum ten values

Eastings					Northings				
-0.167	-0.168	-0.170	-0.172	-0.174	-0.342	-0.342	-0.346	-0.346	-0.356
-0.175	-0.178	-0.178	-0.180	-0.188	-0.356	-0.357	-0.361	-0.368	-0.371

Maximum speeds

0.371	0.368	0.362	0.359	0.358	0.357	0.353	0.349	0.346	0.344
0.342	0.342	0.341	0.339	0.338	0.338	0.338	0.337	0.336	0.334
0.333	0.332	0.332	0.331	0.330	0.330	0.330	0.329	0.329	0.329
0.327	0.327	0.326	0.325	0.325	0.324	0.321	0.320	0.318	0.318
0.317	0.317	0.315	0.314	0.314	0.314	0.313	0.312	0.312	0.311
0.311	0.311	0.310	0.310	0.310	0.310	0.309	0.309	0.309	0.308
0.308	0.308	0.307	0.307	0.306	0.306	0.305	0.304	0.303	0.303
0.303	0.301	0.301	0.301	0.301	0.301	0.301	0.300	0.300	0.299
0.298	0.298	0.298	0.297	0.297	0.296	0.295	0.295	0.295	0.295
0.295	0.295	0.293	0.293	0.293	0.292	0.292	0.292	0.291	0.291

Variance ellipse statistics

Maximum variance	0.2109E-01	Direction	-1.2
Minimum variance	0.4796E-02	Direction	88.8
Total variance	0.2589E-01	Ratio of variances	0.2274E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-5.6
Average direction. maxdir +PI/2 to maxdir -PI/2			180.6

Statistics for vm0704mb.00493sf

	Mean	Variance	Standard deviation
Eastings	-0.0236	0.12987285E-02	0.36037877E-01
Northings	-0.0557	0.14985965E-02	0.38711712E-01
Speed	0.0716	0.12608489E-02	0.35508435E-01
Vector mean speed	0.0605		
Vector Mean Direction	-157.1		

Maximum ten values

Eastings					Northings				
0.012	0.012	0.012	0.012	0.011	0.017	0.014	0.006	-0.003	-0.016
0.011	0.008	0.002	0.001	-0.001	-0.031	-0.037	-0.040	-0.043	-0.047

Minimum ten values

Eastings					Northings				
-0.023	-0.035	-0.037	-0.043	-0.044	-0.073	-0.085	-0.085	-0.088	-0.089
-0.063	-0.069	-0.085	-0.089	-0.095	-0.094	-0.096	-0.098	-0.099	-0.102

Maximum speeds

0.130	0.128	0.120	0.108	0.105	0.096	0.095	0.090	0.089	0.085
0.076	0.073	0.071	0.060	0.057	0.055	0.052	0.044	0.043	0.023
0.019	0.017	0.010							

Variance ellipse statistics

Maximum variance	0.1628E-02	Direction	32.1
Minimum variance	0.1170E-02	Direction	122.1
Total variance	0.2797E-02	Ratio of variances	0.7187E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-33.2
Average direction. maxdir +PI/2 to maxdir -PI/2			167.7

Meter information details for 1307

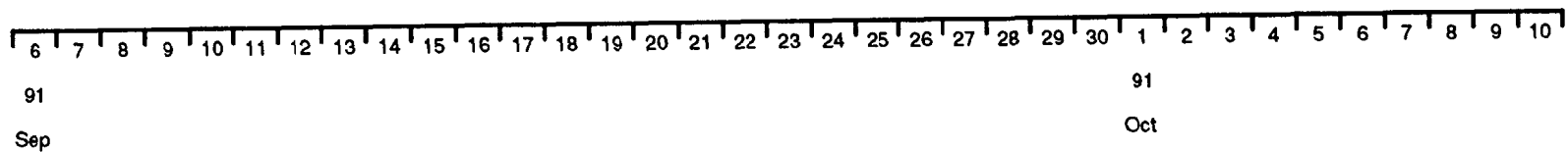
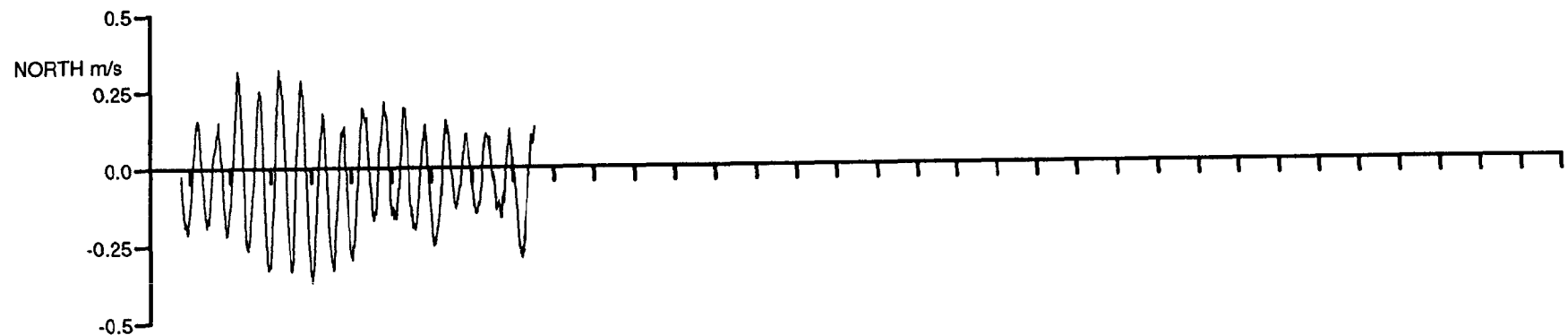
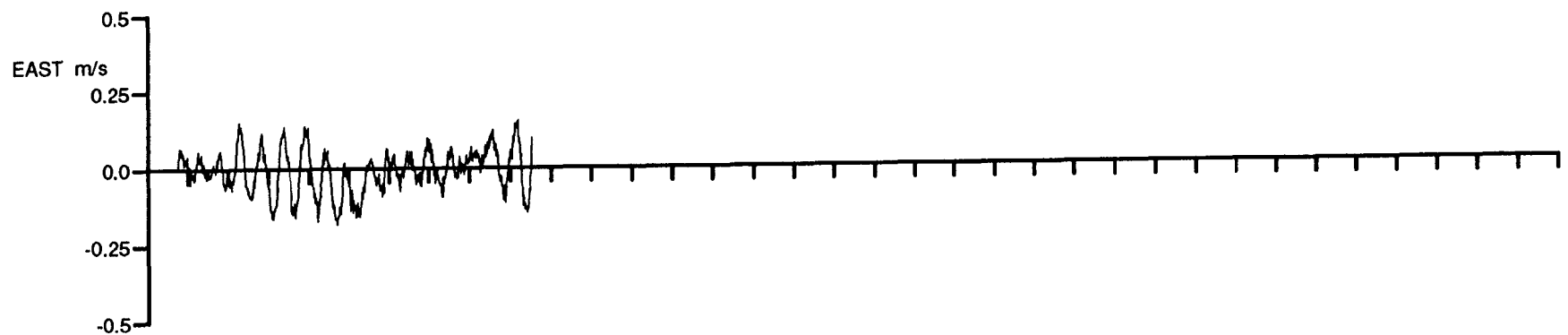
Rig No	:	00493
Meter No	:	1307
Recording interval	:	600.0 seconds
Meter depth	:	20.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	06-SEP-91 16:00:00
Meter stopped	:	15-SEP-91 12:41:00
Period switched on	:	8.9 days
Period of good data	:	8.8 days
Total number of scans	:	1263
Timing error	:	60 seconds slow
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1307 Rig no. 00493 Depth of water(m) 118.0

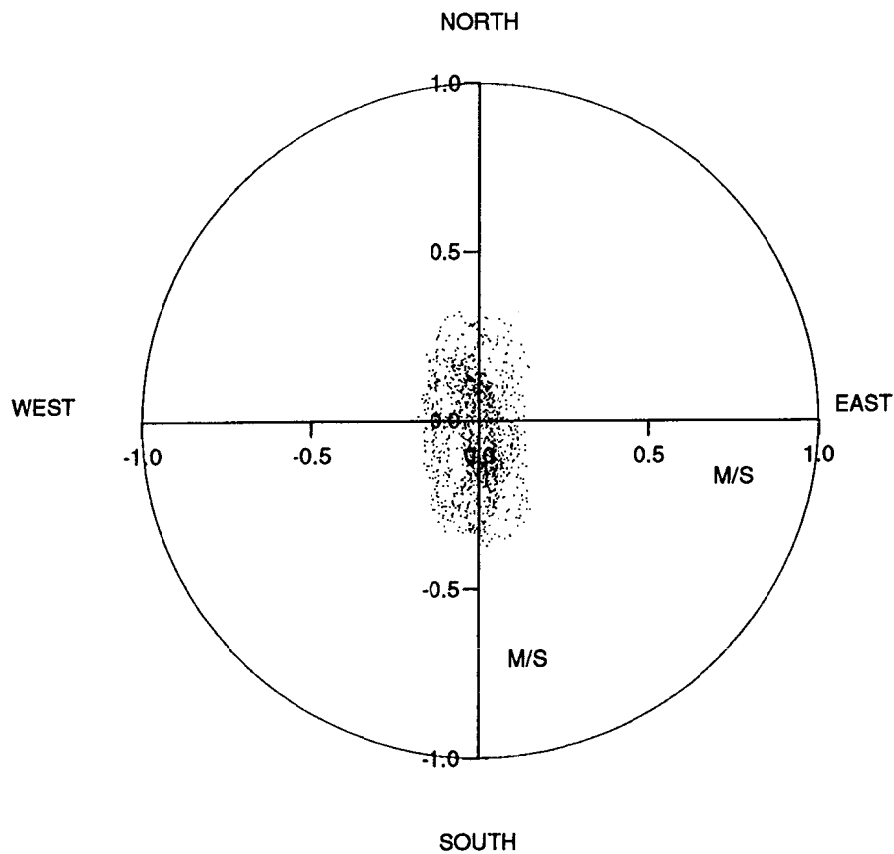
Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00

Position 59 39.84N 01 00.75E Meter Depth(m) 20.0



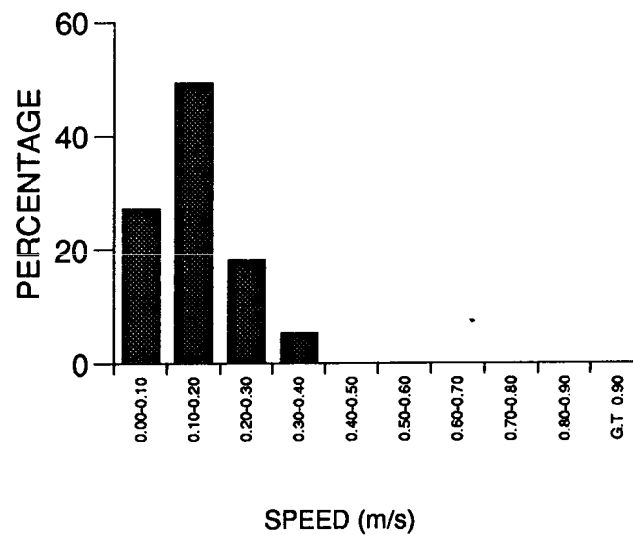
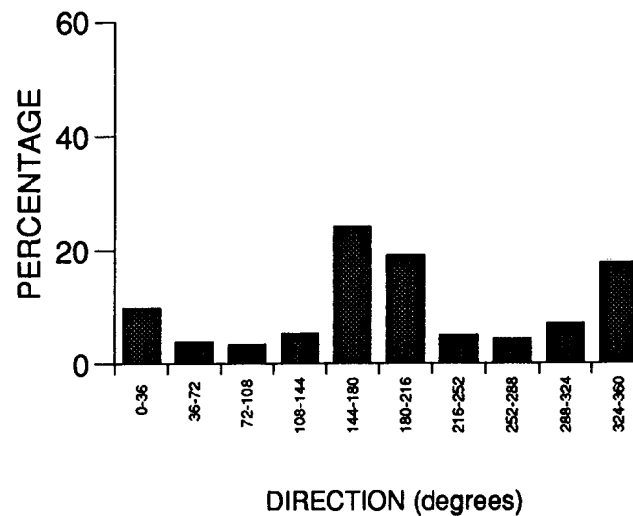
SCATTER PLOT

Meter no. 1307 Rig no. 00493 Depth of water(m) 118.0
 Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00
 Position 59 39.84N 01 00.75E Meter Depth(m) 20.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1307 Rig no. 00493 Depth of water(m) 118.0
 Start/End 1991/09/06 AT 18:18:00 1991/09/15 AT 12:40:00
 Position 59 39.84N 01 00.75E Meter Depth(m) 20.0



Statistics for s41307b.00493s

	Mean	Variance	Standard deviation
Eastings	-0.0099	0.46932753E-02	0.68507485E-01
Northings	-0.0372	0.22702120E-01	0.15067223E+00
Speed	0.1512	0.60112905E-02	0.77532507E-01
Vector mean speed	0.0385		
Vector Mean Direction	-165.0		

Maximum ten values

Eastings					Northings				
0.152	0.148	0.143	0.143	0.142	0.322	0.317	0.310	0.308	0.306
0.142	0.141	0.140	0.137	0.136	0.303	0.302	0.299	0.298	0.291

Minimum ten values

Eastings					Northings				
-0.163	-0.164	-0.164	-0.165	-0.166	-0.337	-0.339	-0.341	-0.342	-0.344
-0.166	-0.167	-0.168	-0.171	-0.184	-0.348	-0.350	-0.357	-0.359	-0.372

Maximum speeds

0.372	0.360	0.357	0.357	0.355	0.352	0.351	0.349	0.342	0.341
0.340	0.336	0.336	0.333	0.333	0.331	0.331	0.330	0.330	0.329
0.327	0.327	0.327	0.326	0.325	0.324	0.323	0.323	0.322	0.322
0.322	0.322	0.322	0.320	0.320	0.320	0.320	0.319	0.318	0.317
0.317	0.314	0.314	0.314	0.314	0.313	0.312	0.311	0.310	0.309
0.308	0.307	0.307	0.307	0.307	0.307	0.305	0.305	0.304	0.304
0.304	0.304	0.304	0.303	0.303	0.301	0.300	0.299	0.299	0.299
0.299	0.298	0.297	0.296	0.296	0.296	0.296	0.295	0.295	0.292
0.291	0.291	0.290	0.290	0.289	0.288	0.287	0.287	0.287	0.286
0.286	0.285	0.284	0.284	0.284	0.284	0.283	0.282	0.282	0.282

Variance ellipse statistics

Maximum variance	0.2282E-01	Direction	-4.7
Minimum variance	0.4571E-02	Direction	85.3
Total variance	0.2740E-01	Ratio of variances	0.2003E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-3.5
Average direction. maxdir +PI/2 to maxdir -PI/2			181.9

Statistics for s41307b.00493sf

	Mean	Variance	Standard deviation
Eastings	-0.0343	0.11652425E-02	0.34135651E-01
Northings	-0.0417	0.17509630E-02	0.41844510E-01
Speed	0.0650	0.14873857E-02	0.38566638E-01
Vector mean speed	0.0540		
Vector Mean Direction	-140.6		

Maximum ten values

Eastings					Northings				
0.008	0.007	-0.003	-0.006	-0.014	0.019	0.010	0.006	-0.014	-0.024
-0.023	-0.034	-0.049	-0.060	-0.073	-0.041	-0.045	-0.061	-0.069	-0.090

Minimum ten values

Eastings					Northings				
-0.003	-0.006	-0.014	-0.023	-0.034	0.006	-0.014	-0.024	-0.041	-0.045
-0.049	-0.060	-0.073	-0.080	-0.085	-0.061	-0.069	-0.090	-0.092	-0.101

Maximum speeds

0.120	0.117	0.105	0.098	0.077	0.070	0.049	0.045	0.042	0.030
0.016	0.011								

Variance ellipse statistics

Maximum variance	0.2087E-02	Direction	31.1
Minimum variance	0.8287E-03	Direction	121.1
Total variance	0.2916E-02	Ratio of variances	0.3970E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-64.4
Average direction. maxdir +PI/2 to maxdir -PI/2			178.6

Rig information details for 00512

Position Latitude	:	59 39.86N
Position Longitude	:	01 00.99E
Water depth	:	120.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	FOUND
Site name identification	:	AF2
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	15-SEP-91 13:50:00
Rig recovered on	:	11-OCT-91 14:11:00
Period of deployment	:	26.0 days
Comments	:	Mooring broke free on 11th October

Meter information details for 1644

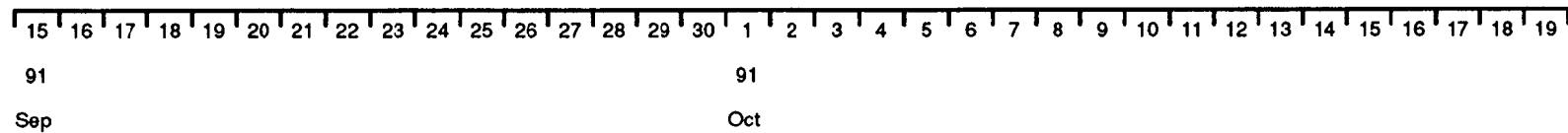
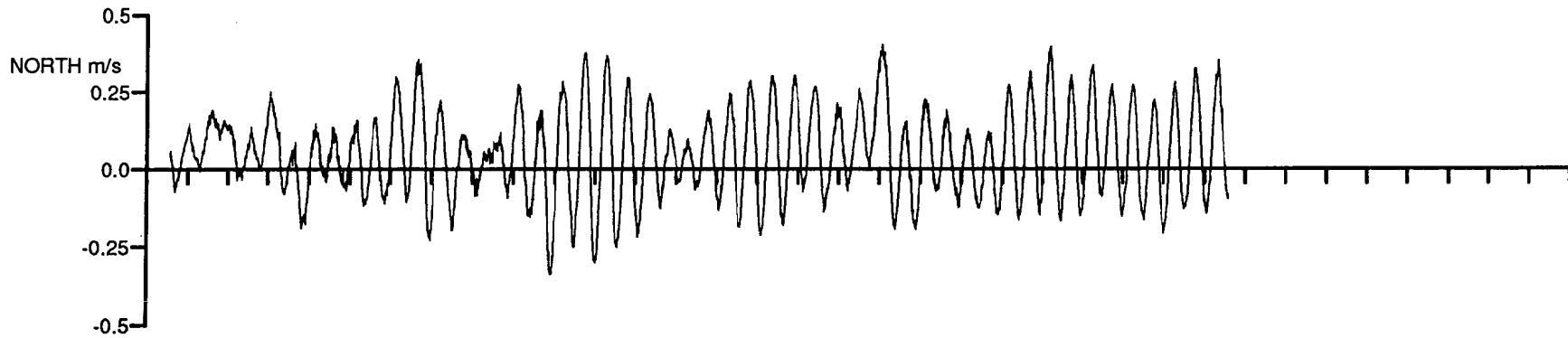
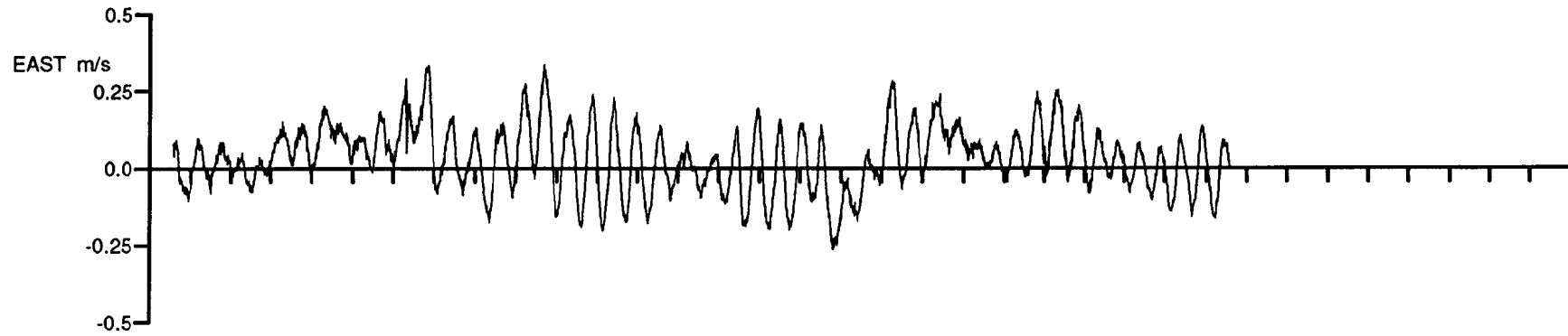
Rig No	:	00512
Meter No	:	1644
Recording interval	:	600.0 seconds
Meter depth	:	5.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	15-SEP-91 13:10:00
Meter stopped	:	26-OCT-91 03:01:00
Period switched on	:	40.6 days
Period of good data	:	26.0 days
Total number of scans	:	3747
Timing error	:	60 seconds slow
Comments	:	Good record obtained until movement

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1644 Rig no. 00512 Depth of water(m) 120.0

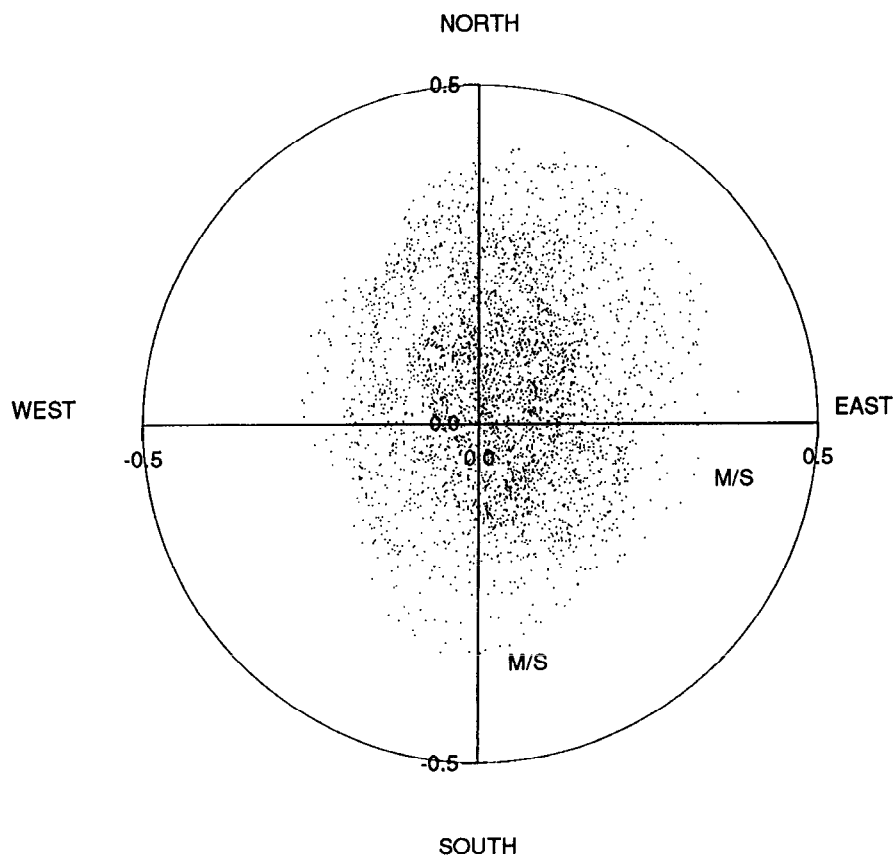
Start/End 1991/09/15 AT 13:50:00 1991/10/11 AT 14:11:00

Position 59 39.86N 01 00.99E Meter Depth(m) 5.0



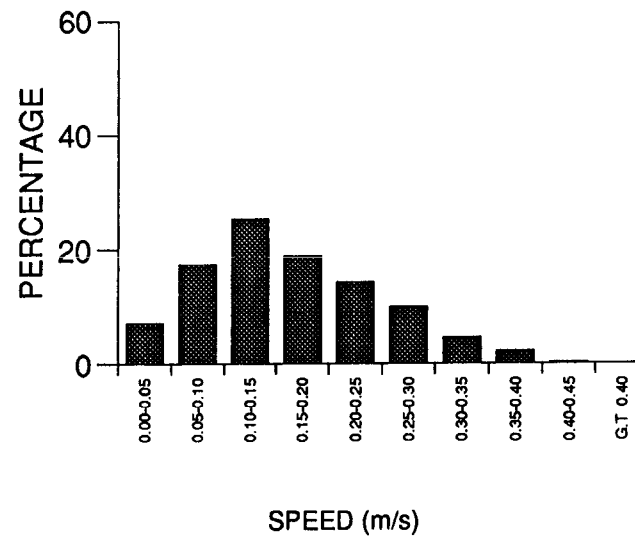
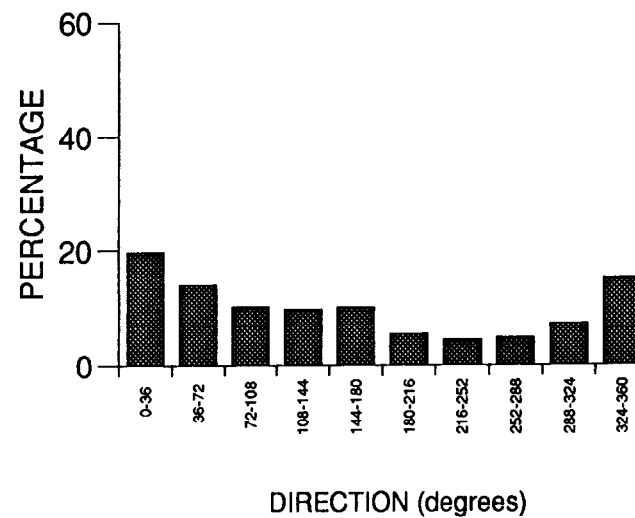
SCATTER PLOT

Meter no. 1644 Rig no. 00512 Depth of water(m) 120.0
 Start/End 1991/09/15 AT 13:50:00 1991/10/11 AT 14:11:00
 Position 59 39.86N 01 00.99E Meter Depth(m) 5.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1644 Rig no. 00512 Depth of water(m) 120.0
 Start/End 1991/09/15 AT 13:50:00 1991/10/11 AT 14:11:00
 Position 59 39.86N 01 00.99E Meter Depth(m) 5.0

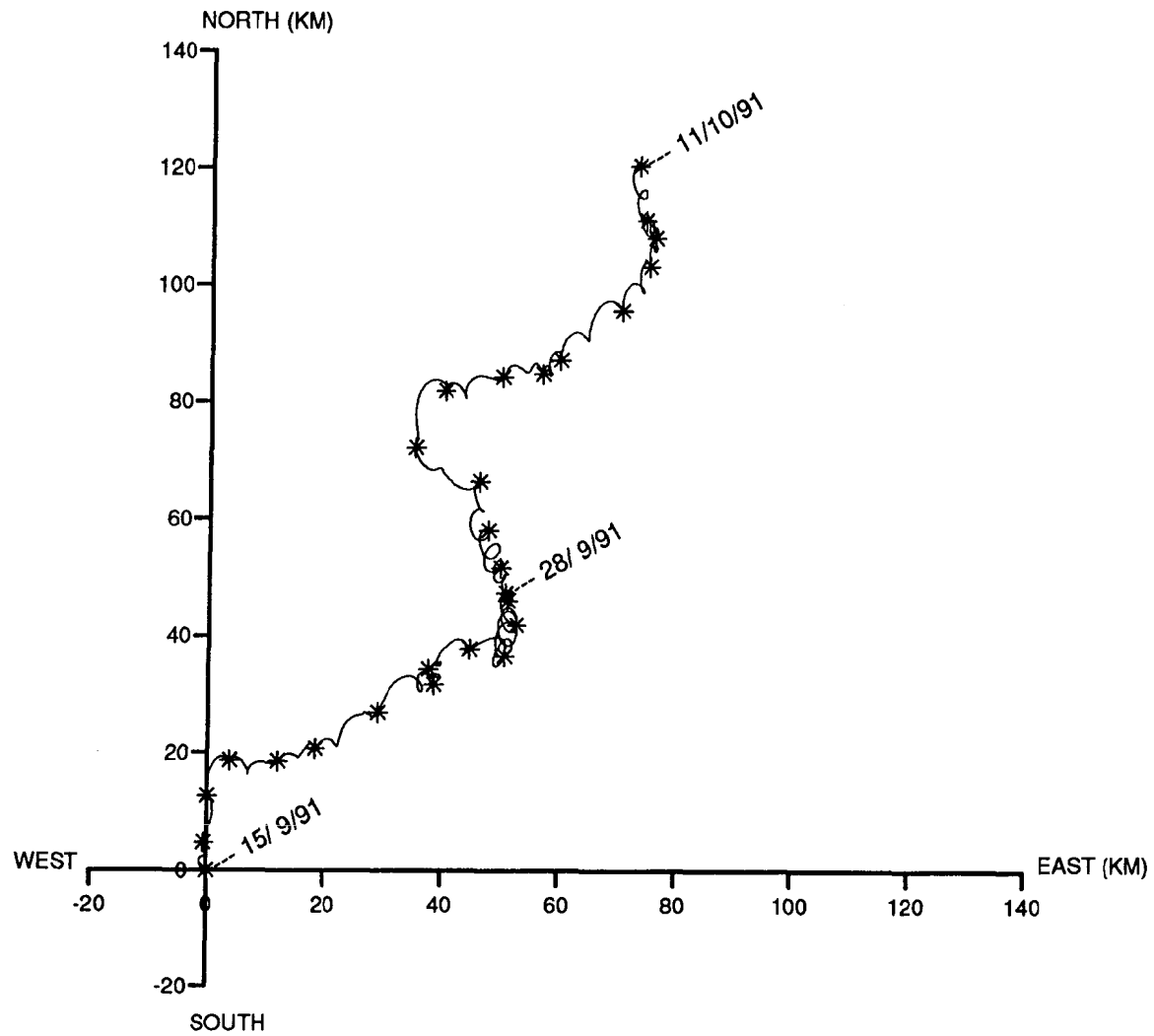


VECTOR PLOT

Meter no. 1644 Rig no. 00512 Depth of water(m) 120.0

Start/End 1991/09/15 AT 13:50:00 1991/10/11 AT 14:11:00

Position 59 39.86N 01 00.99E Meter Depth(m) 5.0



Statistics for s41644t.00512s

	Mean	Variance	Standard deviation
Eastings	0.0325	0.10673157E-01	0.10331097E+00
Northings	0.0535	0.19184869E-01	0.13850945E+00
Speed	0.1633	0.71057654E-02	0.84295705E-01
Vector mean speed	0.0626		
Vector Mean Direction	31.3		

Maximum ten values

Eastings					Northings				
0.381	0.334	0.332	0.326	0.325	0.407	0.403	0.403	0.398	0.398
0.323	0.322	0.322	0.322	0.321	0.383	0.383	0.382	0.382	0.380

Minimum ten values

Eastings					Northings				
-0.240	-0.241	-0.245	-0.246	-0.250	-0.311	-0.312	-0.318	-0.324	-0.327
-0.251	-0.256	-0.262	-0.262	-0.265	-0.328	-0.335	-0.337	-0.337	-0.339

Maximum speeds

0.462	0.417	0.413	0.411	0.409	0.407	0.407	0.406	0.405	0.403
0.401	0.401	0.400	0.399	0.398	0.397	0.396	0.395	0.394	0.394
0.393	0.391	0.390	0.390	0.389	0.388	0.388	0.388	0.387	0.387
0.386	0.386	0.385	0.385	0.384	0.384	0.384	0.383	0.382	0.381
0.379	0.379	0.378	0.378	0.377	0.377	0.377	0.376	0.376	0.375
0.375	0.375	0.374	0.374	0.373	0.372	0.372	0.371	0.371	0.371
0.370	0.369	0.368	0.368	0.367	0.367	0.366	0.365	0.364	0.364
0.363	0.362	0.362	0.361	0.360	0.360	0.359	0.359	0.358	0.358
0.357	0.356	0.356	0.356	0.356	0.355	0.355	0.355	0.355	0.354
0.354	0.353	0.353	0.352	0.352	0.352	0.352	0.352	0.352	0.350

Variance ellipse statistics

Maximum variance	0.1918E-01	Direction	0.1
Minimum variance	0.1067E-01	Direction	90.1
Total variance	0.2986E-01	Ratio of variances	0.5563E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			10.8
Average direction. maxdir +PI/2 to maxdir -PI/2			163.1

Statistics for s41644t.00512sf

	Mean	Variance	Standard deviation
Eastings	0.0414	0.40971963E-02	0.64009346E-01
Northings	0.0496	0.14208755E-02	0.37694503E-01
Speed	0.0873	0.20310509E-02	0.45067180E-01
Vector mean speed	0.0646		
Vector Mean Direction	39.8		

Maximum ten values

Eastings					Northings				
0.161	0.154	0.144	0.125	0.125	0.158	0.146	0.134	0.115	0.114
0.124	0.124	0.123	0.122	0.118	0.110	0.102	0.100	0.097	0.096

Minimum ten values

Eastings					Northings				
-0.024	-0.025	-0.027	-0.029	-0.029	0.007	0.001	-0.002	-0.003	-0.006
-0.054	-0.070	-0.109	-0.112	-0.131	-0.006	-0.006	-0.008	-0.008	-0.013

Maximum speeds

0.197	0.192	0.169	0.161	0.159	0.157	0.156	0.155	0.155	0.150
0.149	0.146	0.138	0.128	0.128	0.127	0.125	0.123	0.122	0.118
0.117	0.116	0.114	0.111	0.110	0.110	0.107	0.107	0.107	0.103
0.101	0.100	0.099	0.097	0.097	0.096	0.093	0.091	0.091	0.090
0.090	0.085	0.084	0.082	0.080	0.079	0.078	0.074	0.068	0.068
0.066	0.060	0.060	0.057	0.056	0.055	0.055	0.055	0.054	0.052
0.051	0.047	0.043	0.042	0.040	0.038	0.037	0.037	0.037	0.034
0.034	0.034	0.033	0.032	0.031	0.031	0.025	0.025	0.023	0.020
0.003									

Variance ellipse statistics

Maximum variance	0.4115E-02	Direction	-85.4
Minimum variance	0.1404E-02	Direction	4.6
Total variance	0.5518E-02	Ratio of variances	0.3411E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			66.3
Average direction. maxdir +PI/2 to maxdir -PI/2			146.3

Meter information details for 1307

Rig No	:	00512
Meter No	:	1307
Recording interval	:	600.0 seconds
Meter depth	:	15.0 m
Position of meter on rig	:	B
Meter type	:	S4
Period of good data	:	0.0 days
Comments	:	Meter lost

Rig information details for 00518

Position Latitude	:	59 40.03N
Position Longitude	:	01 00.95E
Water depth	:	118.0 m
Deployed on cruise	:	C85
Recovered on cruise	:	C85
Site name identification	:	AF3
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	28-OCT-91 18:00:00
Rig recovered on	:	01-NOV-91 11:30:00
Period of deployment	:	3.7 days
Comments	:	Deployment at 16:02 not 18:00

Meter information details for 1113

Rig No : 00518
Meter No : 1113
Recording interval : 1.0 seconds
Meter depth : 5.0 m
Position of meter on rig : T
Meter type : S4
Meter started : 28-OCT-91 17:55:00
Time of last valid scan : 29-OCT-91 13:50:13
Period of good data : 19 hours short record
Total number of scans : 11474
Timing error : None
Comments : Meter sampling every second over a 10
minute period each hour
Time series plot represents first two
hours of data collected
Spikes in data flagged after calibration
Short record due to full memory

Individual burst statistics for meter no. s41113t on rig no. 00518

Burst No	Velocity (metres/second)				Tilt (degrees)			
	Mean		Standard deviation		Mean		Standard deviation	
	East	North	East	North	East	North	East	North
1	-0.069	0.201	0.290	0.320	5.993	5.922	2.837	2.597
2	-0.068	0.278	0.273	0.310	5.938	6.405	2.476	2.732
3	-0.021	0.329	0.259	0.303	6.351	6.266	2.596	2.435
4	-0.021	0.357	0.254	0.315	6.532	6.842	2.744	2.845
5	0.061	0.274	0.264	0.329	6.210	6.132	2.923	2.812
6	0.084	0.199	0.286	0.318	6.194	6.550	2.848	2.837
7	0.103	0.113	0.297	0.313	6.017	6.505	2.771	3.266
8	0.064	0.022	0.296	0.330	6.271	6.454	2.821	3.514
9	0.086	0.001	0.326	0.321	6.371	6.884	3.525	3.744
10	0.045	-0.007	0.321	0.320	6.807	6.834	3.499	4.183
11	-0.085	0.017	0.290	0.320	6.308	5.890	2.904	2.770
12	-0.127	0.064	0.267	0.321	5.557	6.046	2.467	2.681
13	-0.142	0.139	0.274	0.337	6.081	6.050	2.427	2.612
14	-0.112	0.208	0.270	0.335	6.053	6.150	2.645	2.732
15	-0.029	0.255	0.266	0.303	5.989	5.984	2.768	2.541
16	0.001	0.329	0.276	0.320	6.312	6.238	2.720	2.735
17	0.012	0.302	0.288	0.328	6.427	6.623	3.235	2.868
18	0.039	0.233	0.287	0.335	6.163	6.364	2.765	2.953
19	0.033	0.141	0.293	0.330	6.195	6.217	2.830	2.643

Meter information details for 1119

Rig No	:	00518
Meter No	:	1119
Recording interval	:	1.0 seconds
Meter depth	:	15.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	28-OCT-91 17:55:00
Time of last valid scan	:	29-OCT-91 13:01:13
Period of good data	:	19 hours short record
Total number of scans	:	11474
Timing error	:	None
Comments	:	Meter sampling every second over a 10 minute period each hour Time series plot represents first two hours of data collected Spikes in data flagged after calibration Short record due to full memory

Individual burst statistics for meter no. s41119b on rig no. 00518

Burst No	Velocity (metres/second)				Tilt (degrees)			
	Mean		Standard deviation		Mean		Standard deviation	
	East	North	East	North	East	North	East	North
1	-0.086	0.068	0.207	0.201	3.638	3.722	1.704	1.799
2	-0.059	0.176	0.176	0.174	3.806	3.895	1.806	2.024
3	-0.077	0.212	0.161	0.153	3.540	3.549	1.359	1.481
4	-0.034	0.260	0.180	0.174	3.994	3.865	1.744	1.730
5	0.001	0.205	0.200	0.188	3.863	3.804	1.630	1.728
6	0.088	0.127	0.205	0.182	3.768	3.752	1.771	1.772
7	0.146	0.048	0.173	0.186	3.838	3.783	1.678	1.771
8	0.113	-0.066	0.197	0.229	3.555	3.824	1.628	1.968
9	0.082	-0.106	0.196	0.196	3.796	3.906	1.662	1.787
10	0.068	-0.106	0.195	0.195	3.869	4.039	1.693	1.941
11	0.011	-0.135	0.210	0.183	4.453	4.578	2.485	2.431
12	-0.043	-0.073	0.190	0.174	3.918	3.923	1.727	1.855
13	-0.109	-0.036	0.170	0.172	4.061	4.097	1.939	1.885
14	-0.087	0.057	0.171	0.187	3.950	3.994	1.667	1.688
15	-0.072	0.118	0.177	0.167	4.131	4.211	1.647	1.771
16	-0.032	0.218	0.181	0.173	3.986	4.004	1.689	1.795
17	0.005	0.246	0.181	0.172	4.123	4.076	1.635	1.859
18	0.037	0.188	0.186	0.173	3.913	4.082	1.788	1.859
19	0.077	0.126	0.184	0.180	3.675	3.835	1.619	1.704

Rig information details for 00519

Position Latitude	:	59 40.06N
Position Longitude	:	01 01.00E
Water depth	:	118.0 m
Deployed on cruise	:	C85
Recovered on cruise	:	C85
Site name identification	:	AF4
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	02-NOV-91 12:10:00
Rig recovered on	:	06-NOV-91 08:43:00
Period of deployment	:	3.9 days
Comments	:	Launch and recovery successful

Meter information details for 1113

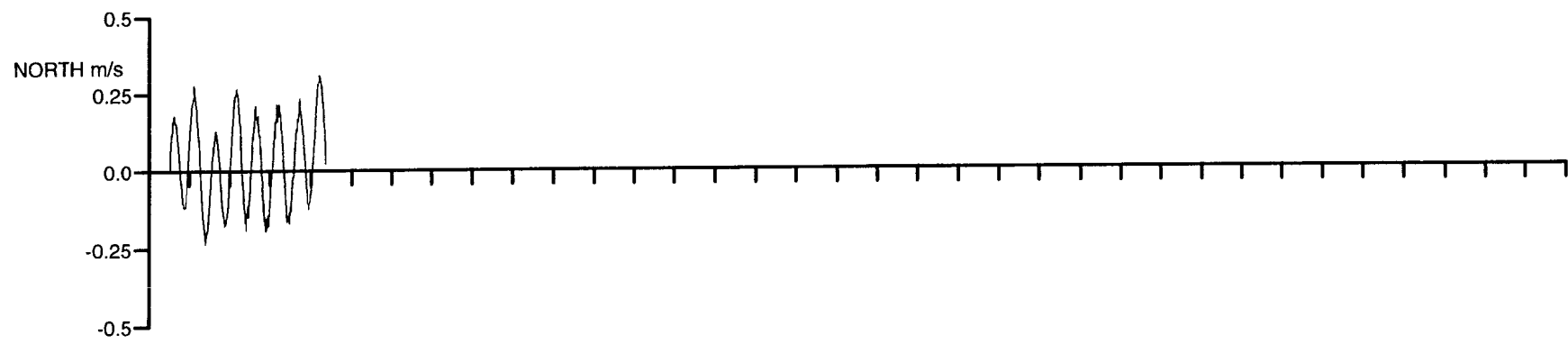
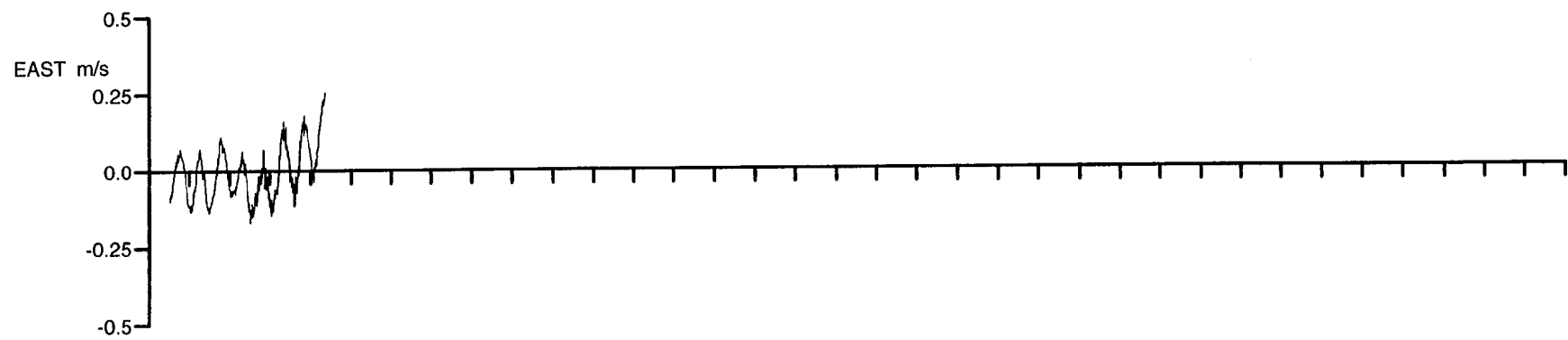
Rig No	:	00519
Meter No	:	1113
Recording interval	:	600.0 seconds
Meter depth	:	5.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	02-NOV-91 12:07:00
Meter stopped	:	10-NOV-91 14:57:00
Period switched on	:	8.1 days
Period of good data	:	3.9 days
Total number of scans	:	555
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1113 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

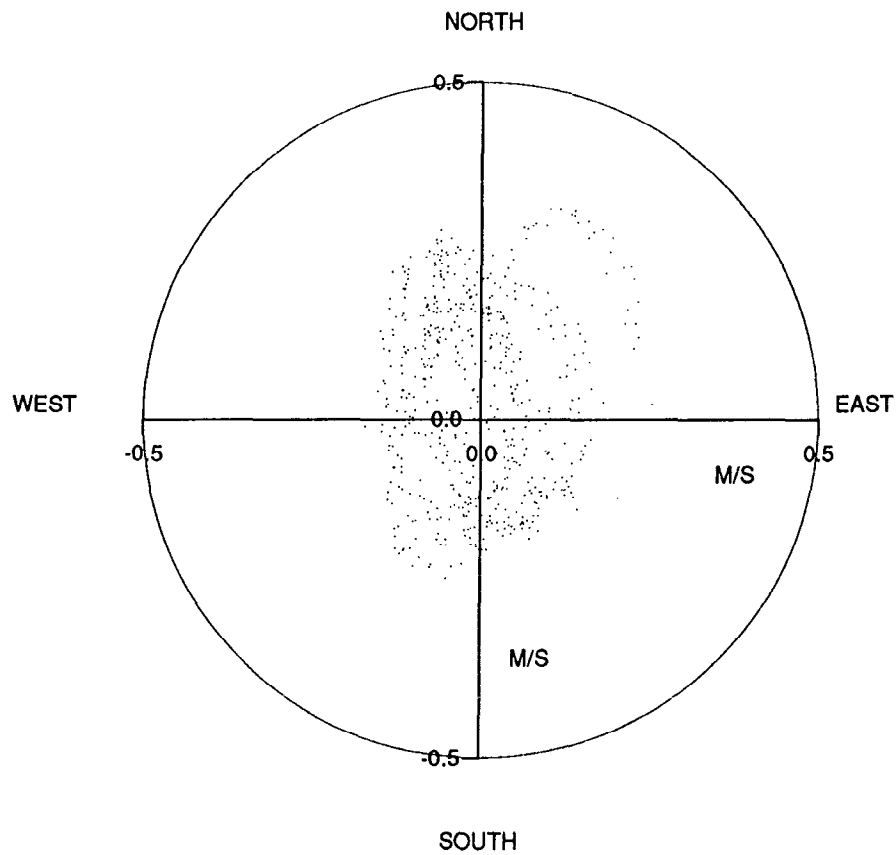
Position 59 40.06N 01 01.00E Meter Depth(m) 5.0



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6
91 91
Nov Dec

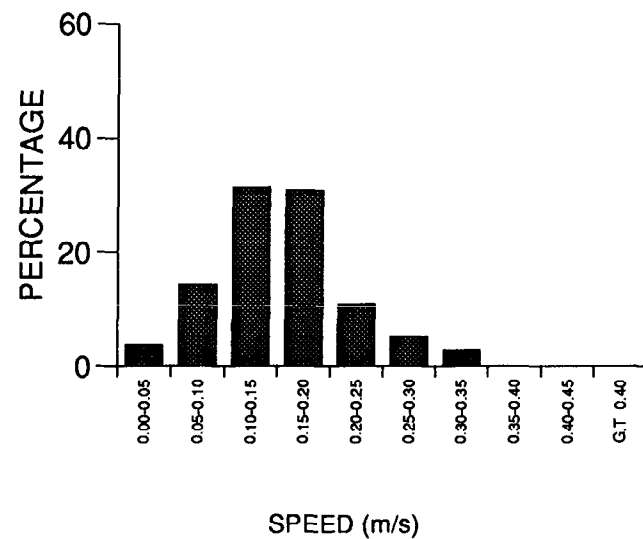
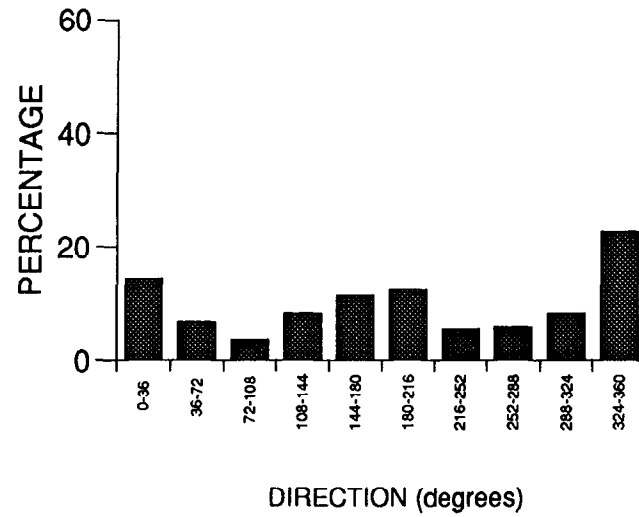
SCATTER PLOT

Meter no. 1113 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 5.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1113 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 5.0

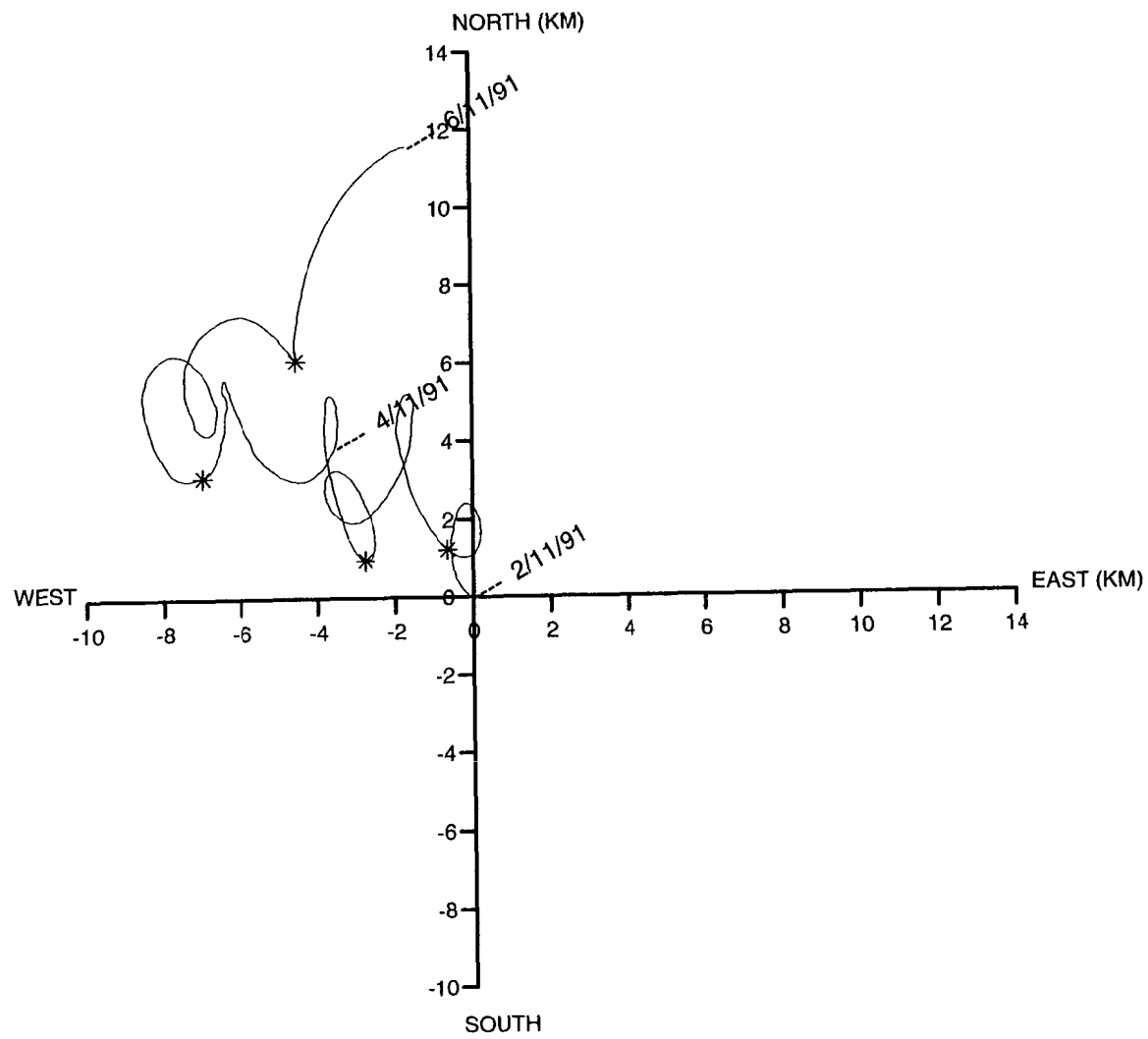


VECTOR PLOT

Meter no. 1113 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 5.0



Statistics for s41113t.00519s

	Mean	Variance	Standard deviation
Eastings	-0.0050	0.72195120E-02	0.84967710E-01
Northings	0.0348	0.19294795E-01	0.13890570E+00
Speed	0.1541	0.39627142E-02	0.62950090E-01
Vector mean speed	0.0351		
Vector Mean Direction	-8.2		

Maximum ten values

Eastings					Northings				
0.253	0.231	0.230	0.228	0.225	0.311	0.310	0.309	0.304	0.302
0.225	0.222	0.216	0.211	0.210	0.292	0.291	0.289	0.286	0.286

Minimum ten values

Eastings					Northings				
-0.140	-0.142	-0.144	-0.145	-0.146	-0.193	-0.194	-0.198	-0.204	-0.214
-0.146	-0.147	-0.149	-0.153	-0.172	-0.214	-0.217	-0.217	-0.218	-0.234

Maximum speeds

0.338	0.332	0.332	0.331	0.331	0.331	0.330	0.327	0.323	0.322
0.315	0.311	0.311	0.306	0.306	0.302	0.299	0.296	0.290	0.290
0.288	0.286	0.283	0.275	0.273	0.271	0.270	0.269	0.269	0.267
0.261	0.261	0.260	0.257	0.256	0.255	0.255	0.254	0.254	0.253
0.253	0.252	0.252	0.252	0.252	0.250	0.249	0.249	0.248	0.248
0.246	0.244	0.243	0.243	0.241	0.240	0.240	0.239	0.238	0.238
0.237	0.237	0.233	0.232	0.231	0.230	0.230	0.229	0.227	0.226
0.226	0.226	0.225	0.224	0.224	0.223	0.223	0.222	0.222	0.222
0.222	0.221	0.218	0.217	0.217	0.216	0.215	0.215	0.214	0.213
0.213	0.213	0.213	0.213	0.210	0.209	0.208	0.208	0.208	0.207

Variance ellipse statistics

Maximum variance	0.1930E-01	Direction	1.1
Minimum variance	0.7215E-02	Direction	91.1
Total variance	0.2651E-01	Ratio of variances	0.3738E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-6.1
Average direction. maxdir +PI/2 to maxdir -PI/2			178.8

Meter information details for 0604

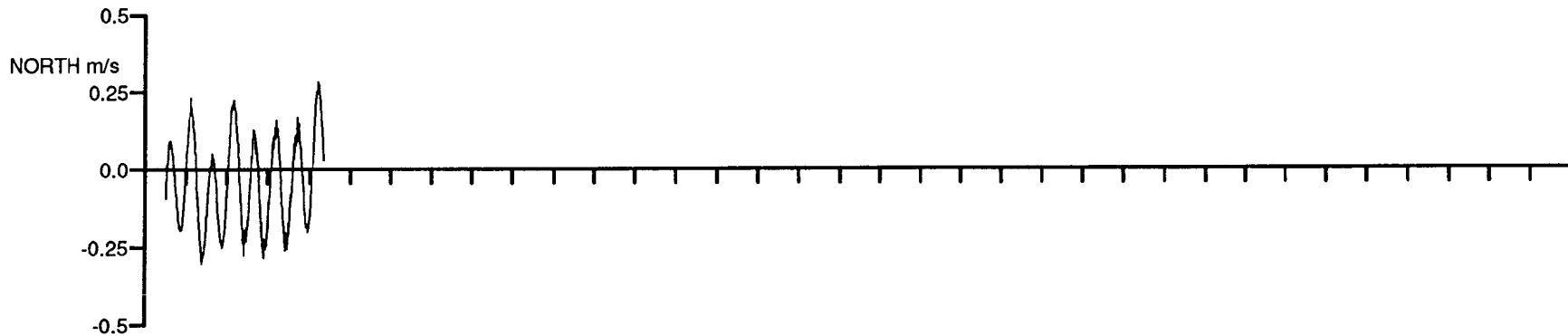
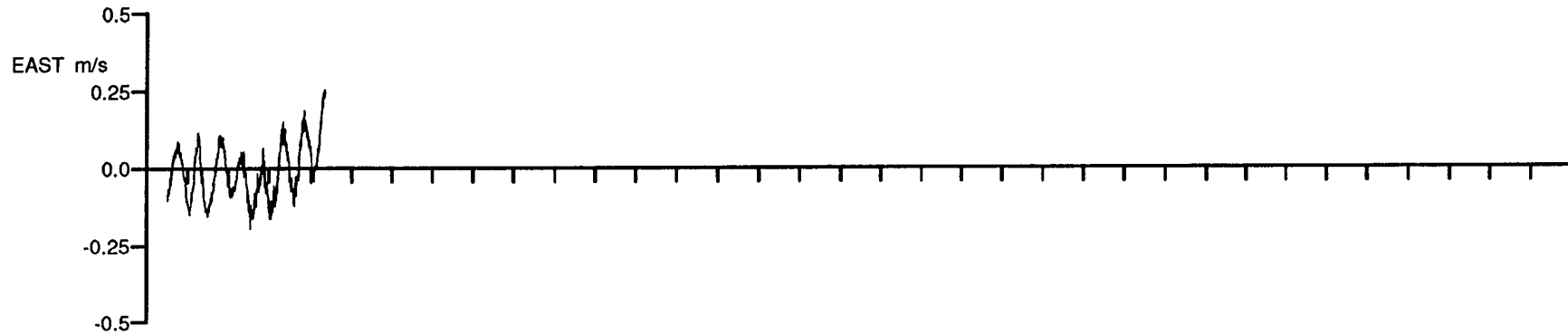
Rig No	:	00519
Meter No	:	0604
Recording interval	:	450.0 seconds
Meter depth	:	7.0 m
Position of meter on rig	:	MT
Meter type	:	VM
Meter started	:	02-NOV-91 10:00:00
Meter stopped	:	06-NOV-91 08:45:00
Period switched on	:	3.9 days
Period of good data	:	3.9 days
Total number of scans	:	740
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0604 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 7.0



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6

91

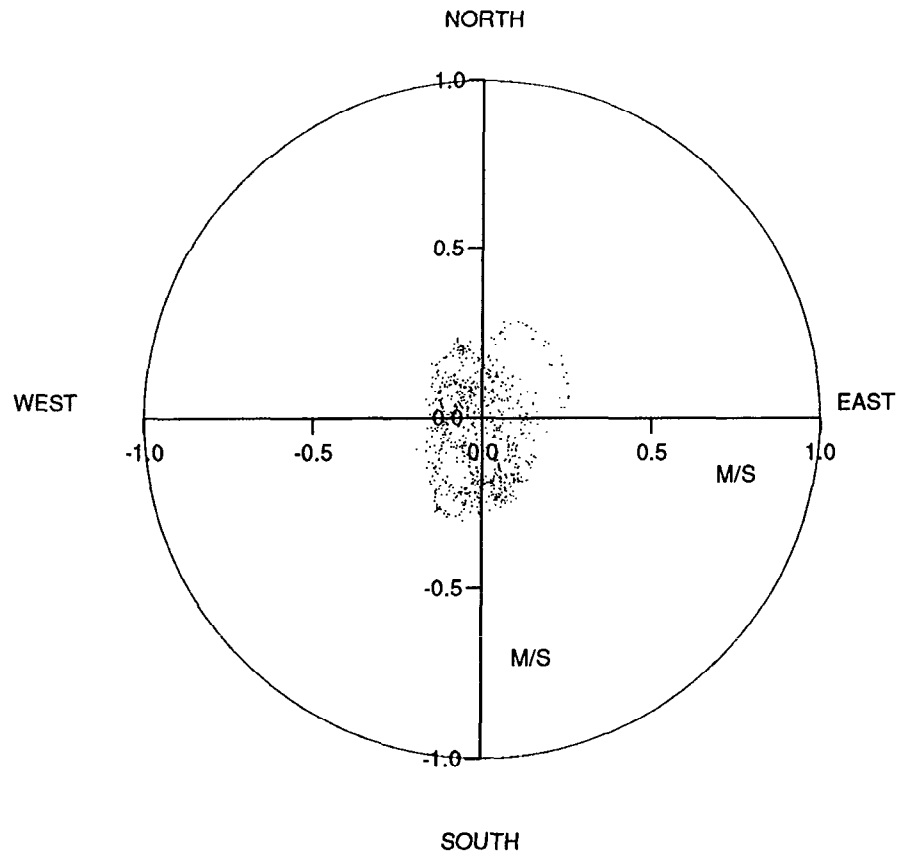
91

Nov

Dec

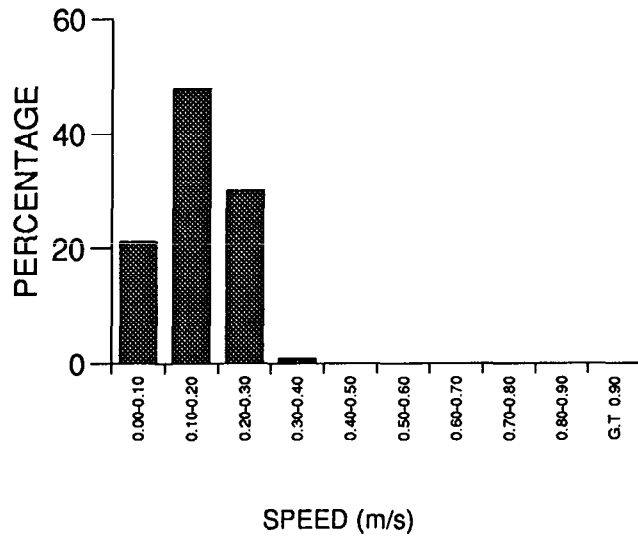
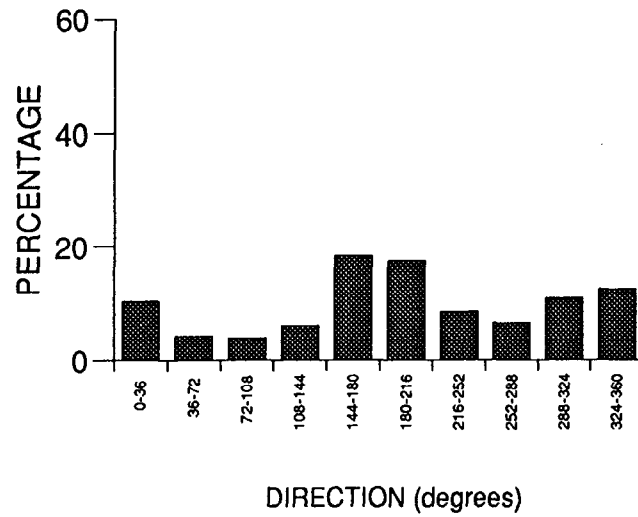
SCATTER PLOT

Meter no. 0604 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 7.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0604 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 7.0

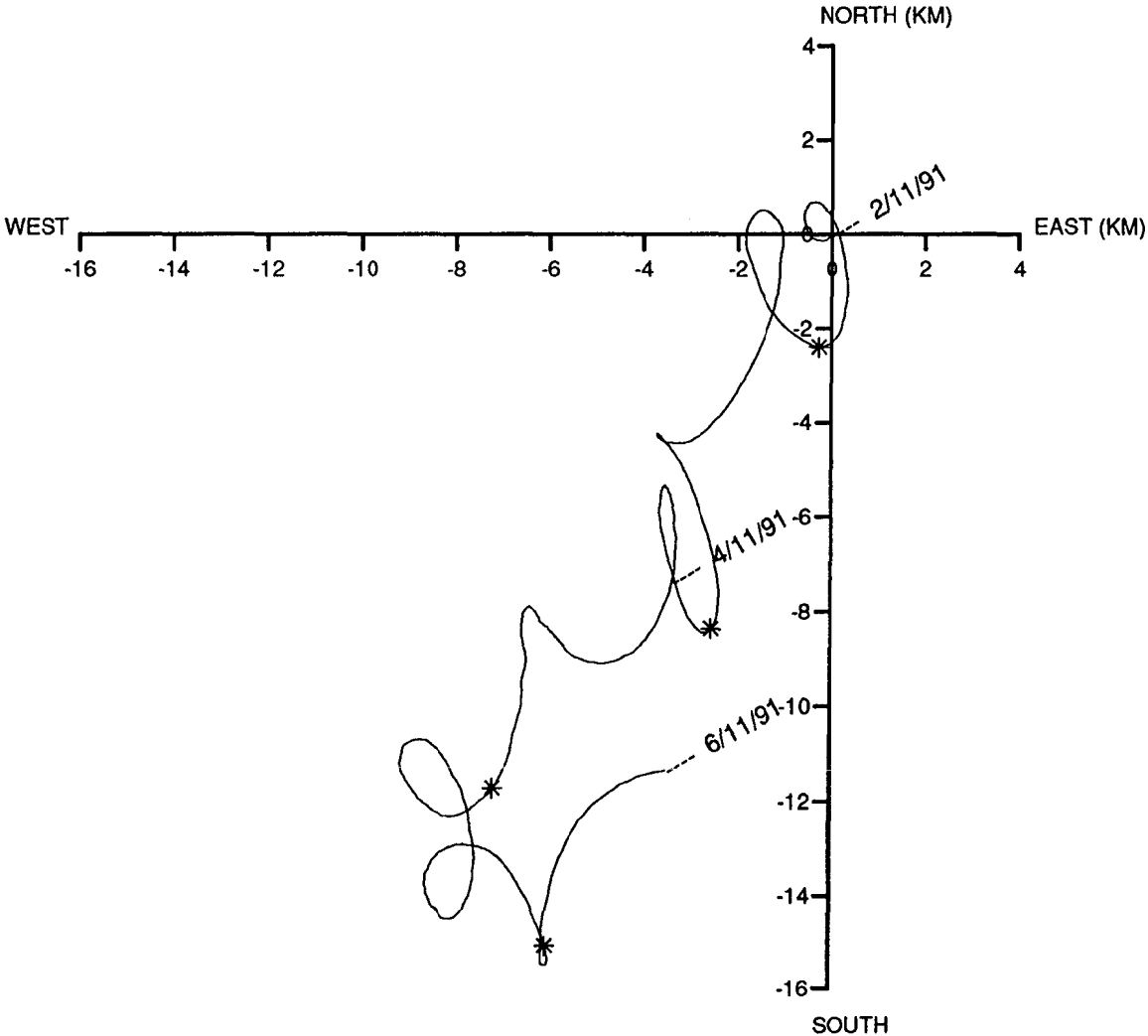


VECTOR PLOT

Meter no. 0604 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 7.0



Statistics for vm0604mt.00519s

	Mean	Variance	Standard deviation
Eastings	-0.0105	0.76818336E-02	0.87646075E-01
Northings	-0.0341	0.21159483E-01	0.14546300E+00
Speed	0.1595	0.46320329E-02	0.68059042E-01
Vector mean speed	0.0357		
Vector Mean Direction	-162.9		

Maximum ten values

Eastings					Northings				
0.254	0.252	0.252	0.249	0.246	0.283	0.282	0.278	0.277	0.272
0.241	0.239	0.234	0.232	0.231	0.271	0.271	0.266	0.263	0.255

Minimum ten values

Eastings					Northings				
-0.155	-0.155	-0.157	-0.159	-0.162	-0.277	-0.277	-0.281	-0.282	-0.282
-0.164	-0.164	-0.165	-0.165	-0.194	-0.284	-0.284	-0.288	-0.290	-0.302

Maximum speeds

0.308	0.307	0.307	0.302	0.302	0.301	0.301	0.300	0.300	0.299
0.299	0.298	0.298	0.297	0.297	0.296	0.296	0.294	0.293	0.293
0.291	0.291	0.291	0.290	0.289	0.288	0.288	0.283	0.282	0.282
0.281	0.281	0.280	0.280	0.279	0.277	0.276	0.275	0.274	0.274
0.273	0.273	0.272	0.270	0.270	0.269	0.267	0.264	0.263	0.262
0.262	0.261	0.261	0.261	0.260	0.260	0.259	0.258	0.258	0.258
0.257	0.257	0.257	0.256	0.256	0.255	0.254	0.254	0.253	0.253
0.253	0.252	0.251	0.250	0.250	0.250	0.250	0.249	0.249	0.249
0.249	0.248	0.248	0.248	0.247	0.245	0.245	0.245	0.245	0.245
0.244	0.243	0.243	0.243	0.243	0.242	0.242	0.242	0.241	0.240

Variance ellipse statistics

Maximum variance	0.2116E-01	Direction	0.5
Minimum variance	0.7681E-02	Direction	90.5
Total variance	0.2884E-01	Ratio of variances	0.3630E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-12.3
Average direction. maxdir +PI/2 to maxdir -PI/2			182.8

Meter information details for 0704

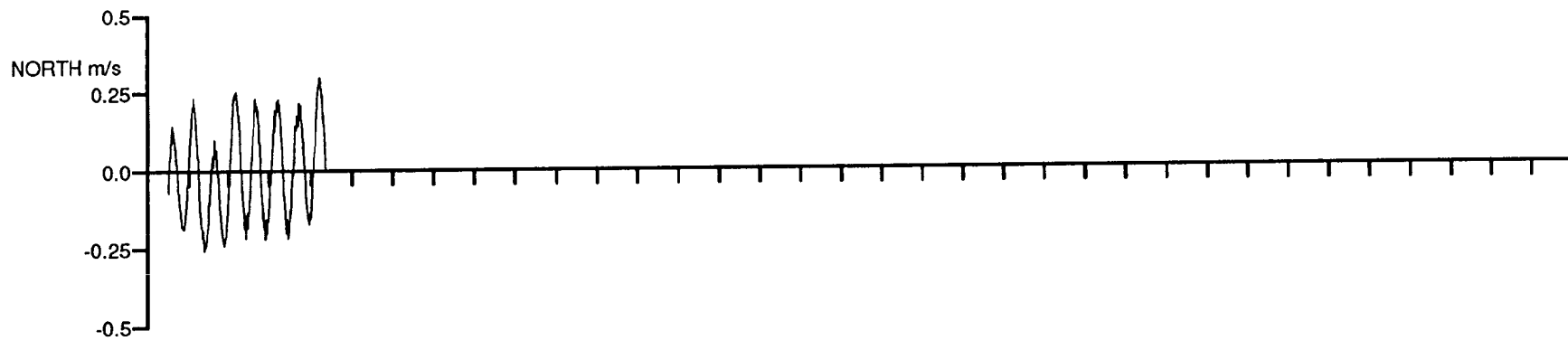
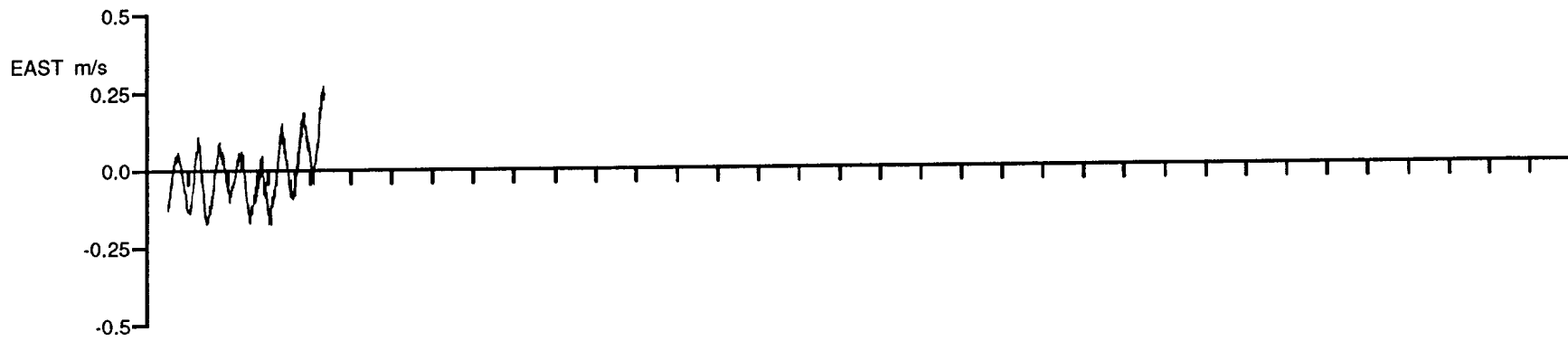
Rig No	:	00519
Meter No	:	0704
Recording interval	:	450.0 seconds
Meter depth	:	12.0 m
Position of meter on rig	:	MB
Meter type	:	VM
Meter started	:	02-NOV-91 09:15:00
Meter stopped	:	06-NOV-91 08:45:00
Period switched on	:	4.0 days
Period of good data	:	3.9 days
Total number of scans	:	740
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0704 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 12.0



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6

91

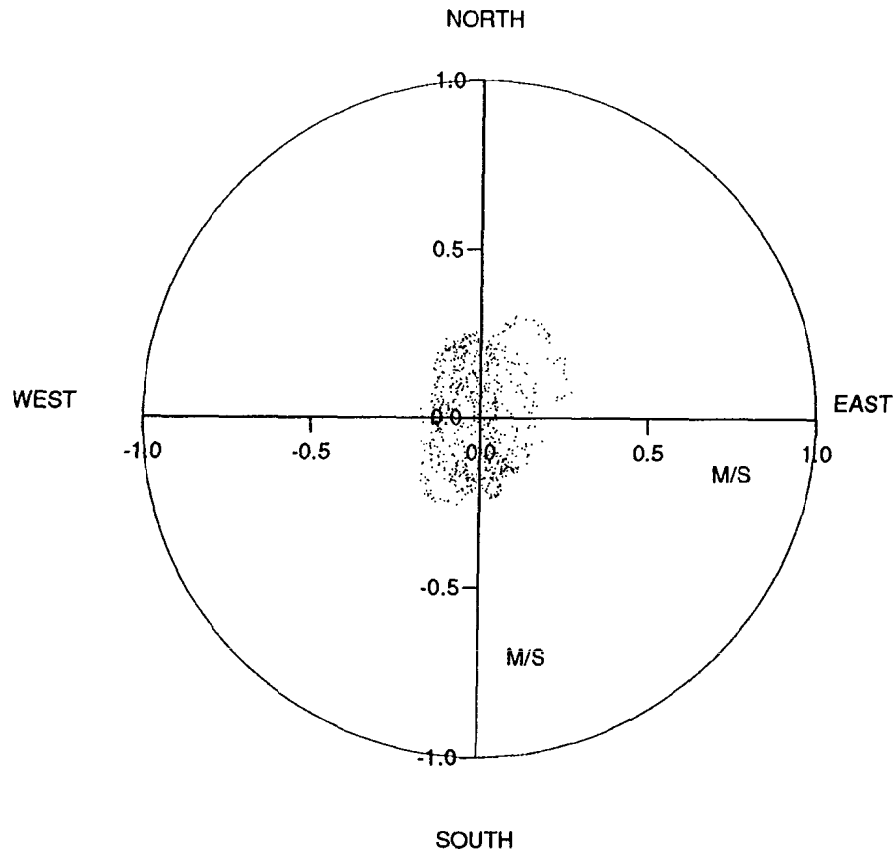
Nov

91

Dec

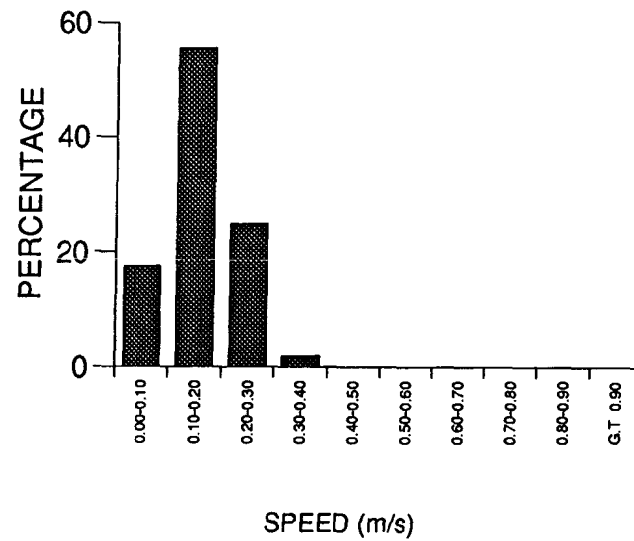
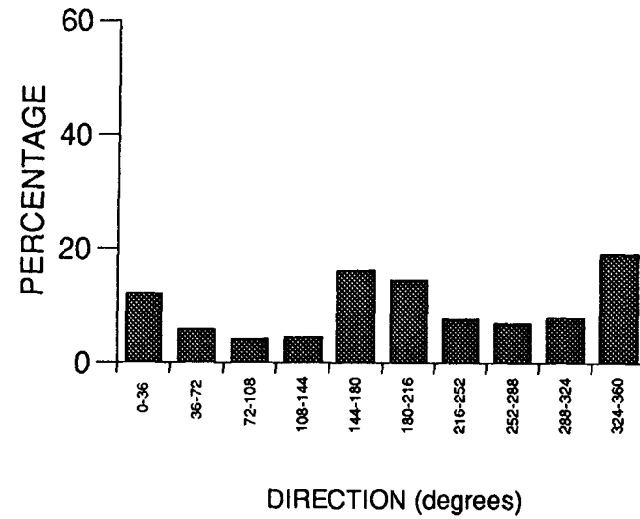
SCATTER PLOT

Meter no. 0704 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 12.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0704 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 12.0

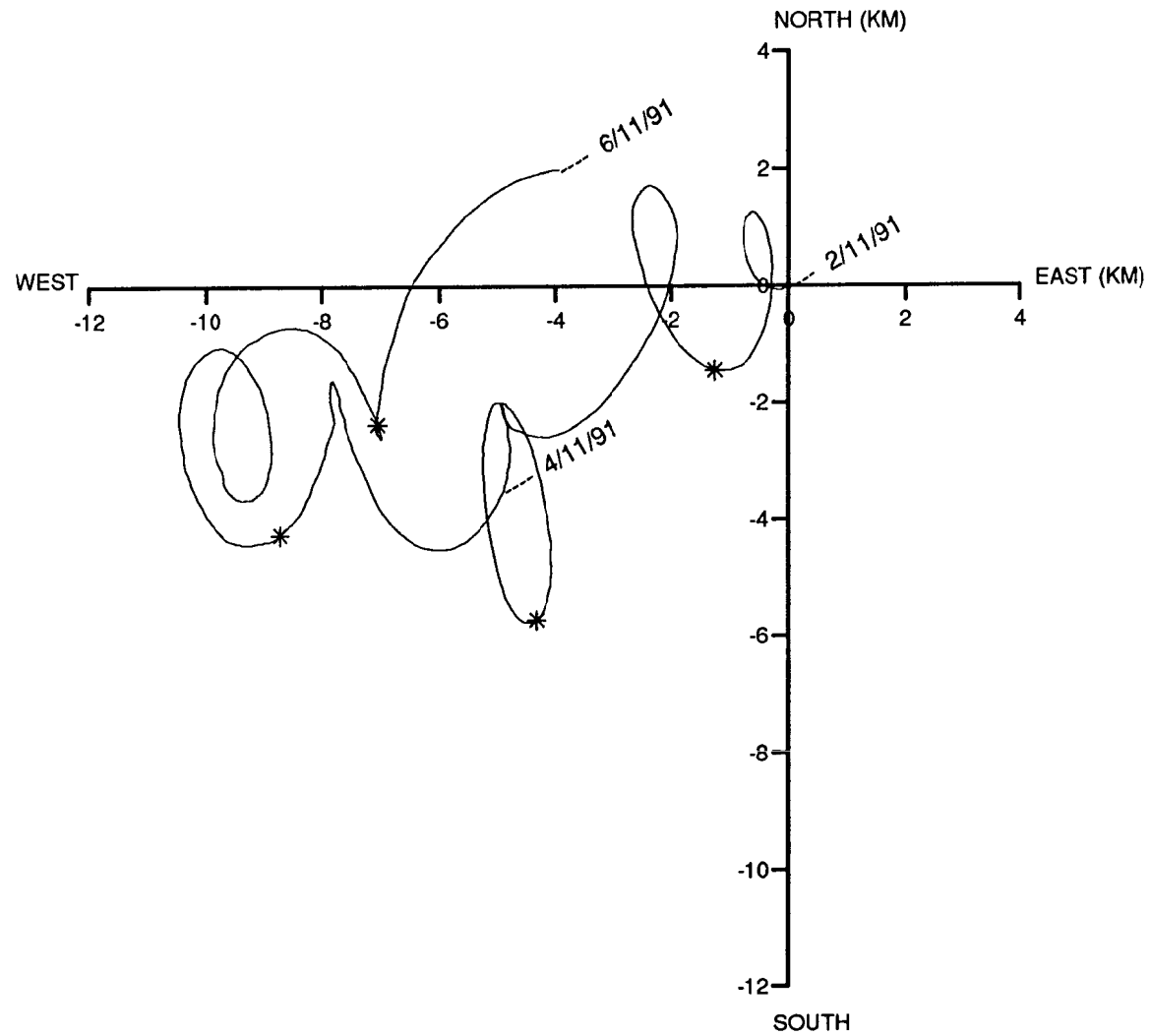


VECTOR PLOT

Meter no. 0704 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 12.0



Statistics for vm0704mb.00519s

	Mean	Variance	Standard deviation
Eastings	-0.0118	0.80730589E-02	0.89850210E-01
Northings	0.0060	0.22114245E-01	0.14870860E+00
Speed	0.1623	0.39985641E-02	0.63234203E-01
Vector mean speed	0.0133		
Vector Mean Direction	-63.3		

Maximum ten values

Eastings					Northings				
0.270	0.255	0.251	0.249	0.248	0.300	0.295	0.291	0.289	0.280
0.248	0.248	0.247	0.241	0.236	0.277	0.277	0.276	0.274	0.273

Minimum ten values

Eastings					Northings				
-0.164	-0.166	-0.167	-0.168	-0.170	-0.239	-0.239	-0.242	-0.242	-0.242
-0.172	-0.172	-0.174	-0.174	-0.176	-0.246	-0.247	-0.250	-0.250	-0.257

Maximum speeds

0.330	0.328	0.322	0.320	0.319	0.319	0.319	0.317	0.314	0.313
0.311	0.306	0.304	0.300	0.299	0.296	0.294	0.294	0.286	0.286
0.285	0.285	0.285	0.283	0.282	0.280	0.280	0.280	0.279	0.279
0.279	0.278	0.274	0.273	0.271	0.270	0.269	0.268	0.268	0.268
0.266	0.265	0.264	0.263	0.262	0.262	0.256	0.256	0.255	0.253
0.253	0.252	0.250	0.249	0.249	0.248	0.248	0.248	0.247	0.244
0.244	0.243	0.243	0.243	0.242	0.241	0.240	0.240	0.240	0.240
0.240	0.239	0.239	0.239	0.239	0.239	0.238	0.237	0.237	0.236
0.235	0.235	0.235	0.234	0.233	0.233	0.233	0.232	0.231	0.231
0.230	0.230	0.230	0.230	0.230	0.230	0.229	0.228	0.227	0.227

Variance ellipse statistics

Maximum variance	0.2219E-01	Direction	4.2
Minimum variance	0.7999E-02	Direction	94.2
Total variance	0.3019E-01	Ratio of variances	0.3605E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-9.1
Average direction. maxdir +PI/2 to maxdir -PI/2			183.0

Meter information details for 1119

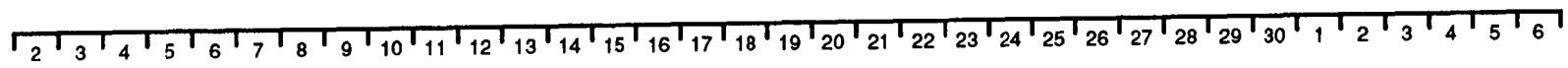
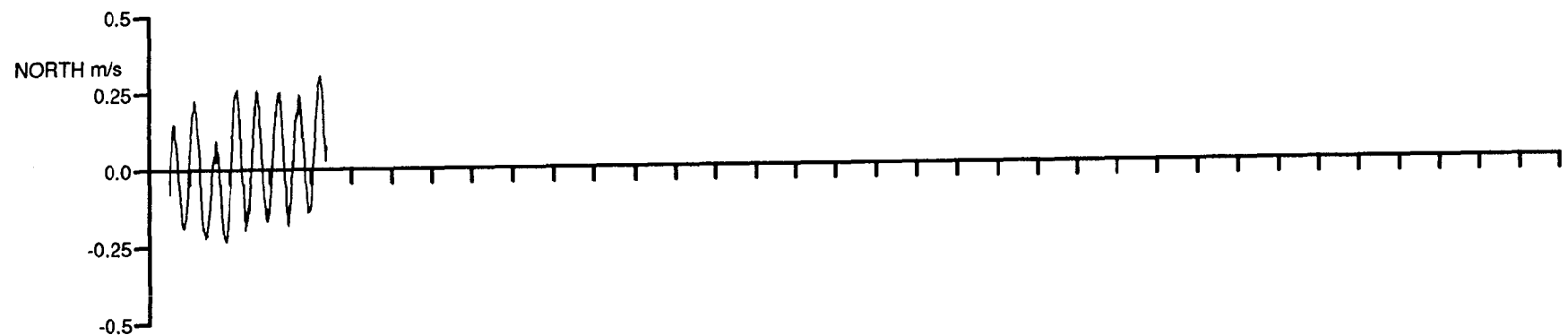
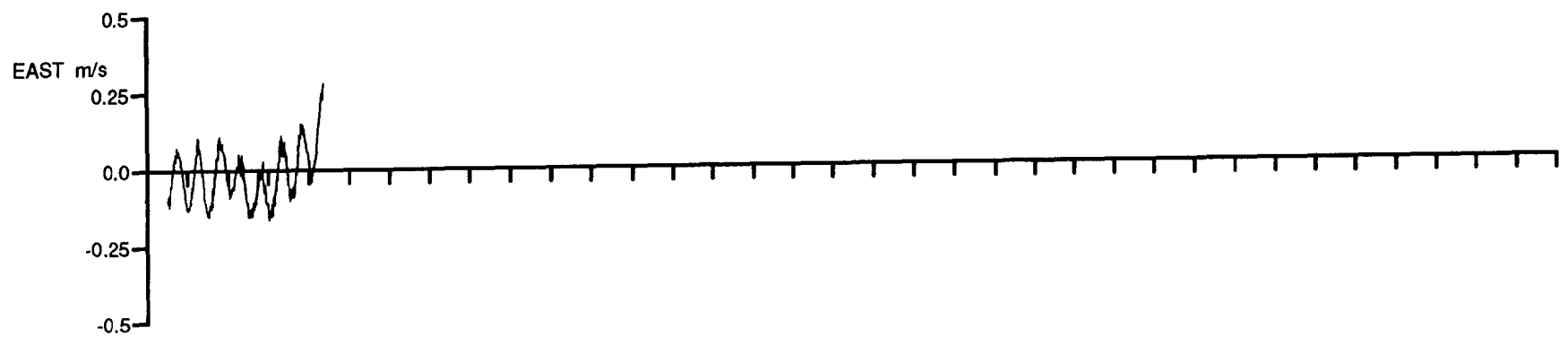
Rig No	:	00519
Meter No	:	1119
Recording interval	:	600.0 seconds
Meter depth	:	20.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	02-NOV-91 12:00:00
Meter stopped	:	10-NOV-91 14:40:00
Period switched on	:	8.1 days
Period of good data	:	3.9 days
Total number of scans	:	556
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1119 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 20.0

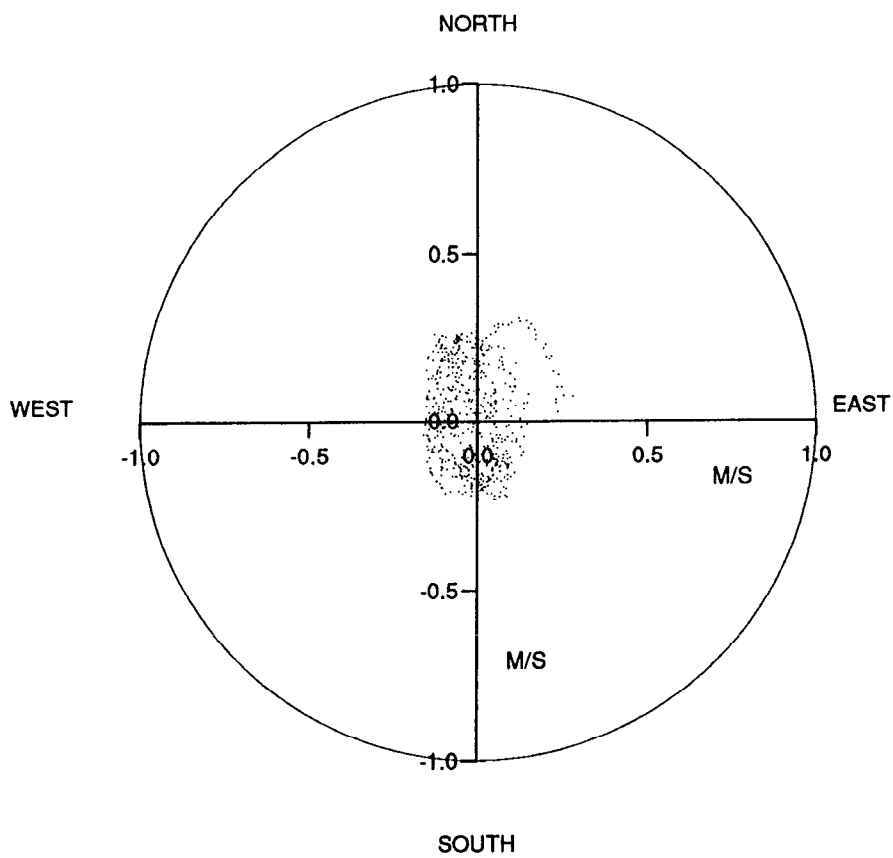


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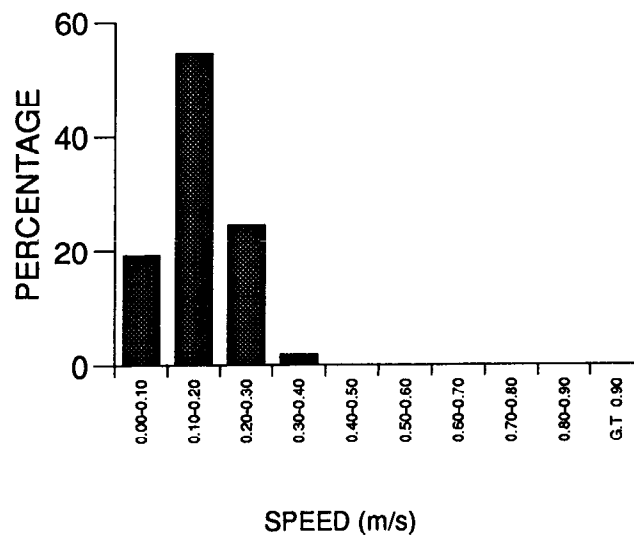
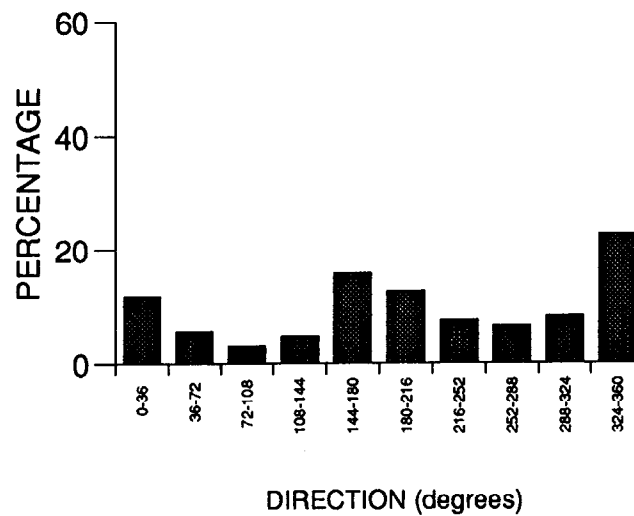
SCATTER PLOT

Meter no. 1119 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 20.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1119 Rig no. 00519 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00
 Position 59 40.06N 01 01.00E Meter Depth(m) 20.0

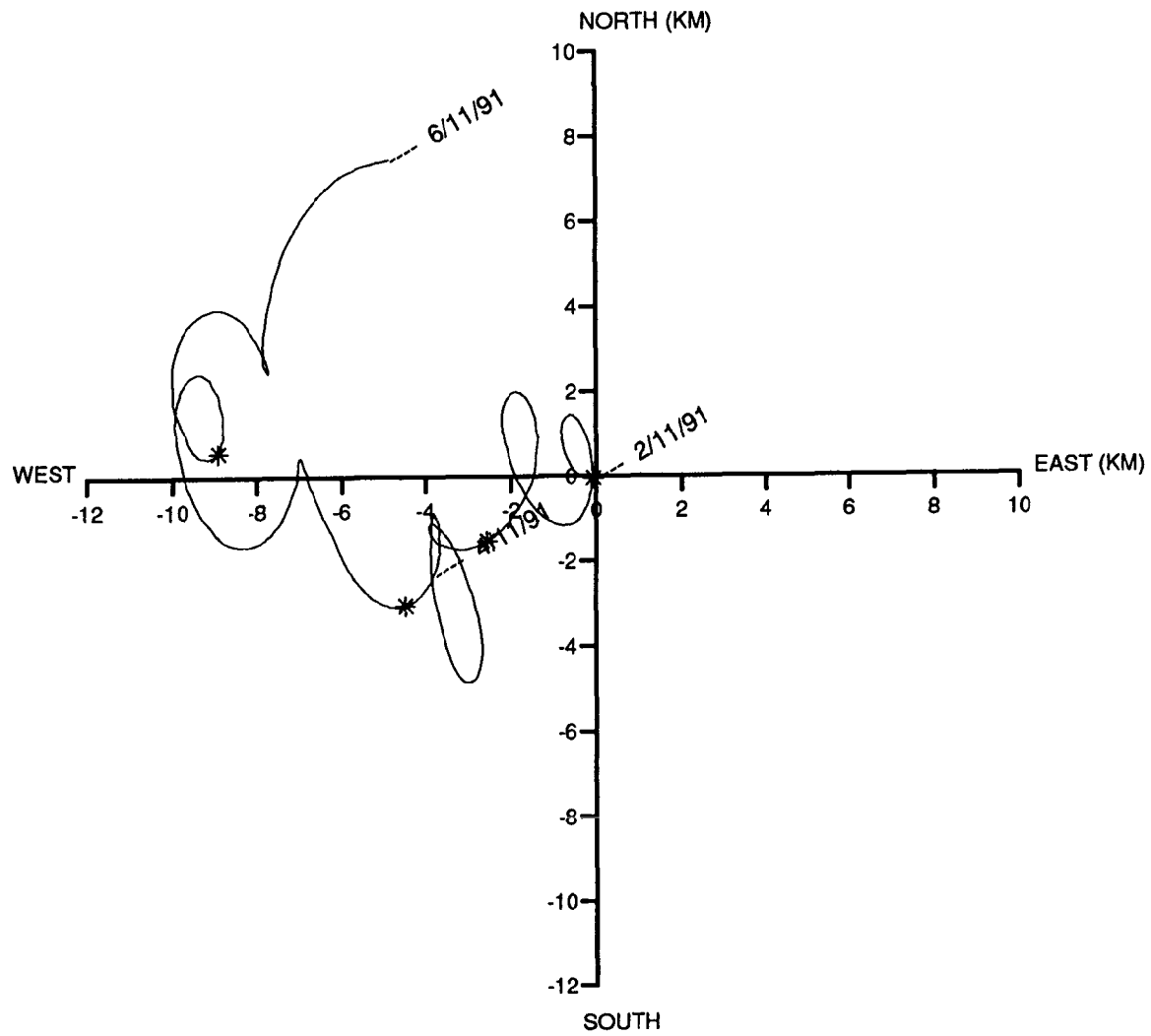


VECTOR PLOT

Meter no. 1119 Rig no. 00519 Depth of water(m) 118.0

Start/End 1991/11/02 AT 12:10:00 1991/11/06 AT 08:43:00

Position 59 40.06N 01 01.00E Meter Depth(m) 20.0



Statistics for s41119b.00519s

	Mean	Variance	Standard deviation
Eastings	-0.0145	0.74277162E-02	0.86184196E-01
Northings	0.0224	0.21738587E-01	0.14744011E+00
Speed	0.1601	0.41987021E-02	0.64797394E-01
Vector mean speed	0.0267		
Vector Mean Direction	-33.0		

Maximum ten values

Eastings					Northings				
0.282	0.252	0.247	0.238	0.236	0.305	0.297	0.295	0.293	0.289
0.233	0.231	0.230	0.223	0.216	0.288	0.286	0.286	0.282	0.279

Minimum ten values

Eastings					Northings				
-0.152	-0.153	-0.153	-0.153	-0.153	-0.215	-0.219	-0.221	-0.222	-0.222
-0.153	-0.154	-0.155	-0.156	-0.163	-0.223	-0.223	-0.223	-0.230	-0.232

Maximum speeds

0.330	0.328	0.328	0.320	0.318	0.316	0.310	0.307	0.304	0.300
0.298	0.295	0.295	0.292	0.292	0.290	0.289	0.286	0.285	0.281
0.278	0.276	0.276	0.275	0.271	0.269	0.268	0.268	0.268	0.265
0.265	0.265	0.263	0.263	0.262	0.261	0.261	0.259	0.259	0.259
0.256	0.255	0.255	0.254	0.254	0.252	0.251	0.251	0.250	0.249
0.249	0.248	0.248	0.247	0.246	0.246	0.245	0.243	0.242	0.241
0.241	0.240	0.240	0.240	0.239	0.239	0.239	0.239	0.239	0.238
0.238	0.238	0.236	0.235	0.235	0.234	0.234	0.233	0.232	0.232
0.232	0.232	0.232	0.232	0.231	0.231	0.229	0.228	0.228	0.226
0.226	0.226	0.225	0.225	0.224	0.224	0.224	0.224	0.222	0.222

Variance ellipse statistics

Maximum variance	0.2176E-01	Direction	-2.0
Minimum variance	0.7410E-02	Direction	88.0
Total variance	0.2917E-01	Ratio of variances	0.3406E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-7.0
Average direction. maxdir +PI/2 to maxdir -PI/2			186.2

Rig information details for 00494

Position Latitude	:	59 40.13N
Position Longitude	:	00 59.82E
Water depth	:	115.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	AG
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	06-SEP-91 15:40:00
Rig recovered on	:	07-NOV-91 14:27:00
Period of deployment	:	61.9 days
Comments	:	Launch and recovery successful

Meter information details for 1261

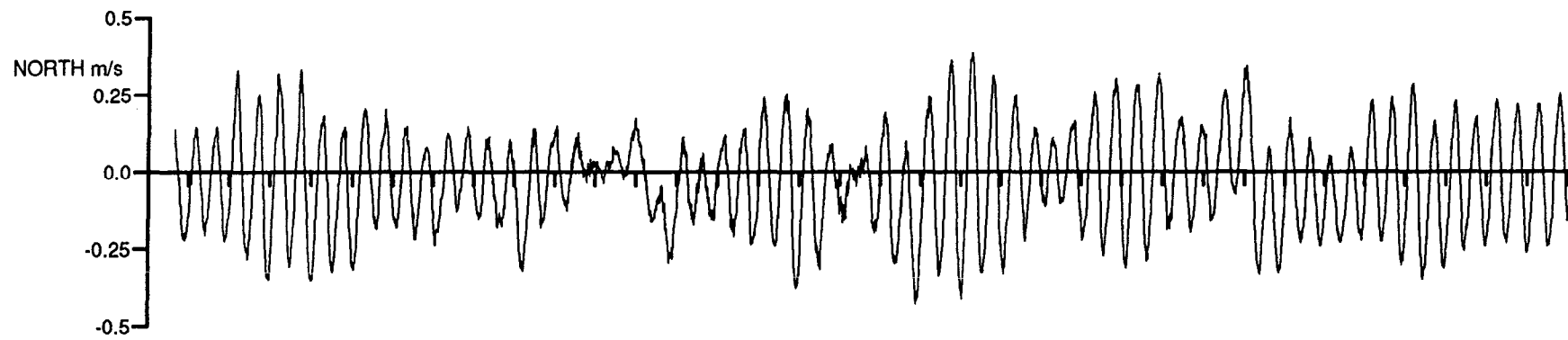
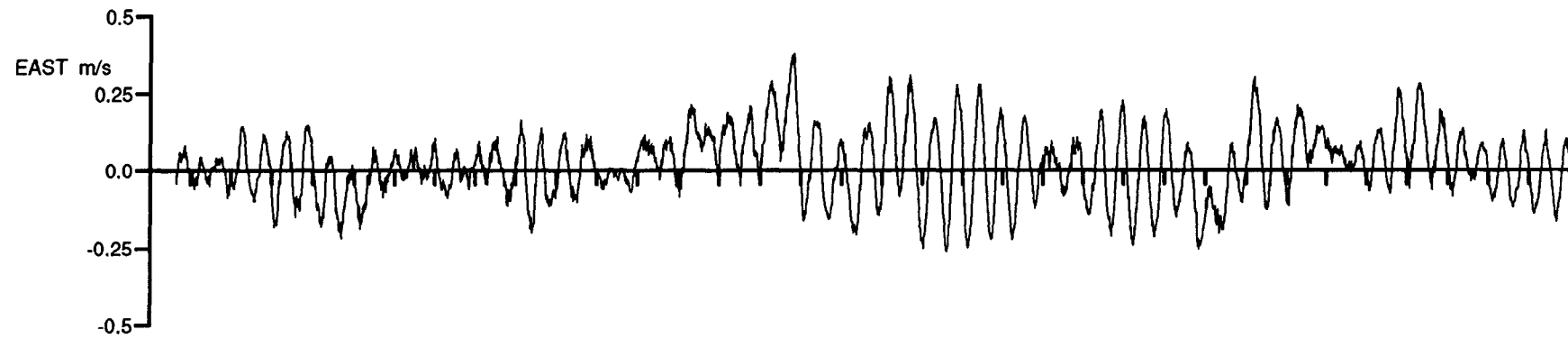
Rig No	:	00494
Meter No	:	1261
Recording interval	:	600.0 seconds
Meter height from bottom	:	92.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	06-SEP-91 12:50:00
Meter stopped	:	10-NOV-91 15:44:00
Period switched on	:	65.1 days
Period of good data	:	62.0 days
Total number of scans	:	8921
Timing error	:	240 seconds slow
Comments	:	Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1261 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 92.0



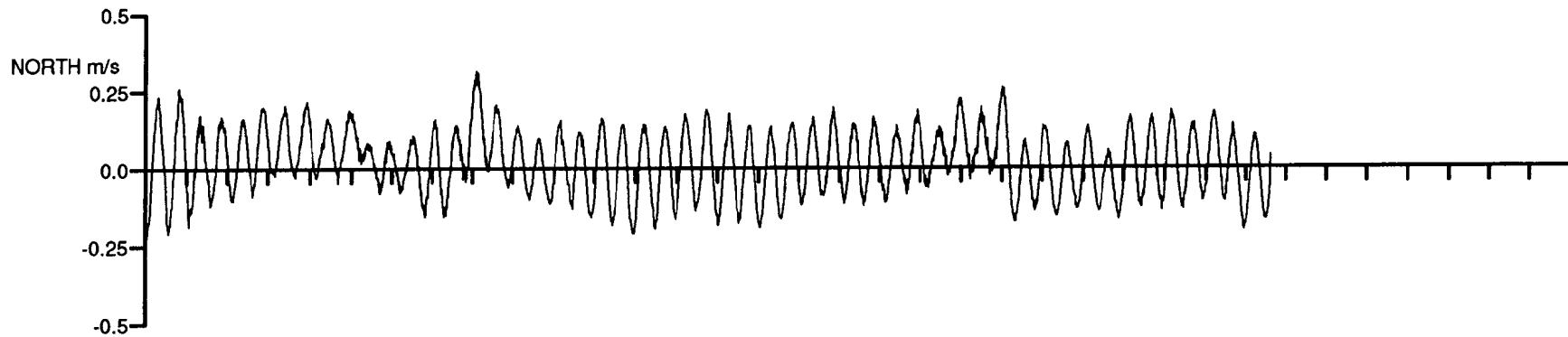
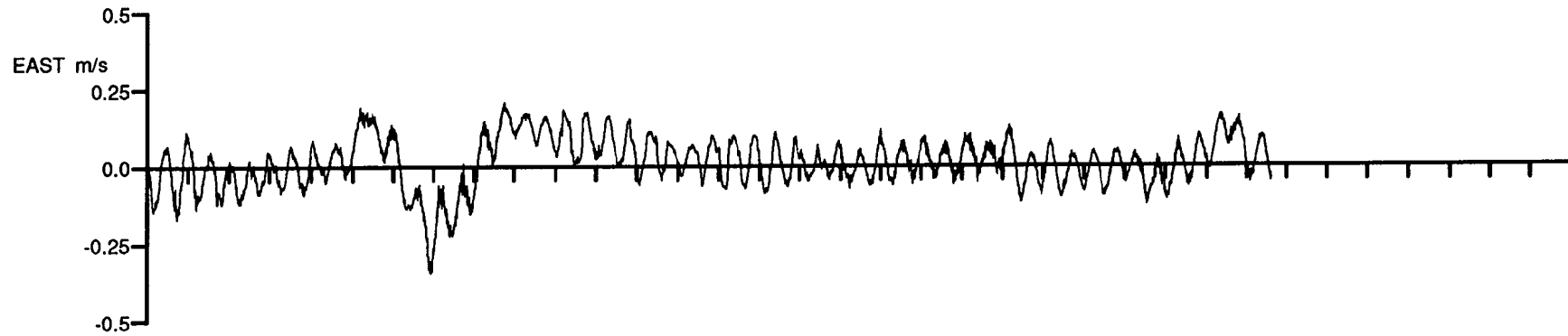
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
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VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1261 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 92.0



11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14

91

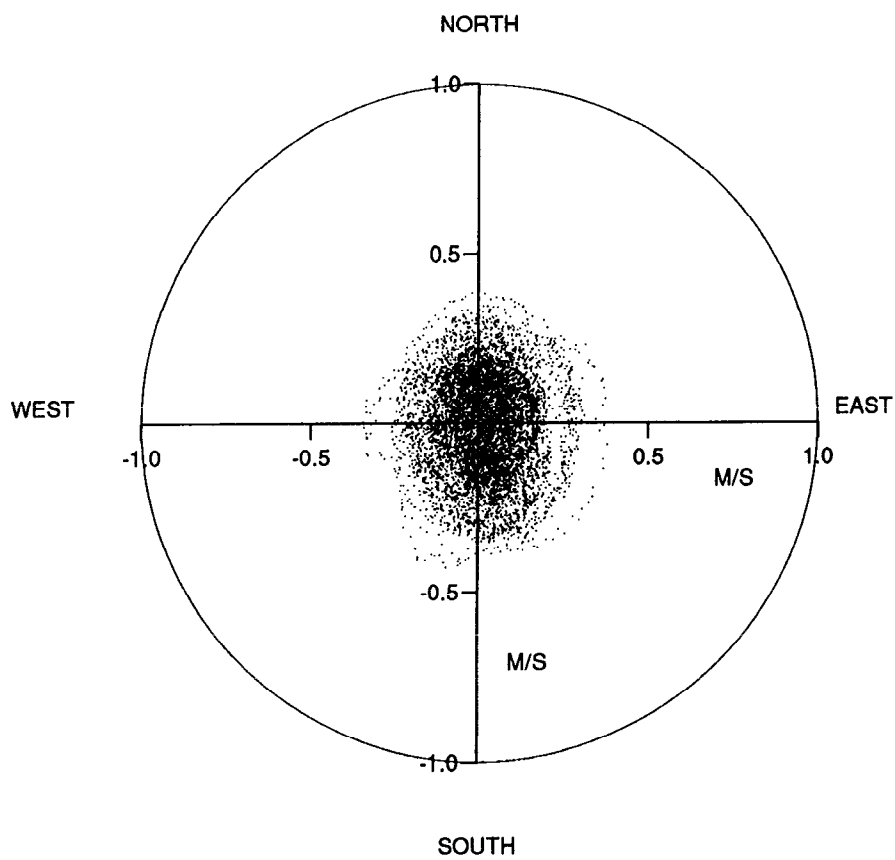
Oct

91

Nov

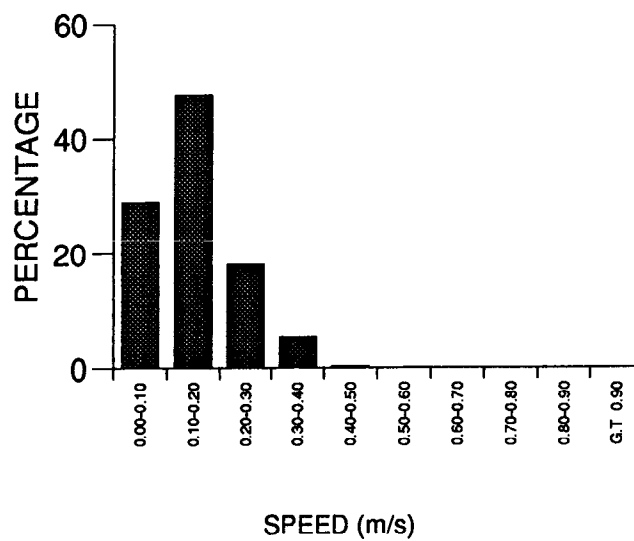
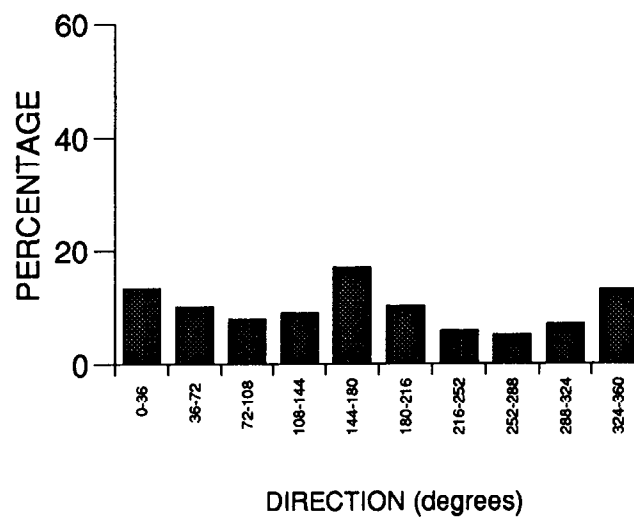
SCATTER PLOT

Meter no. 1261 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 92.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1261 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 92.0

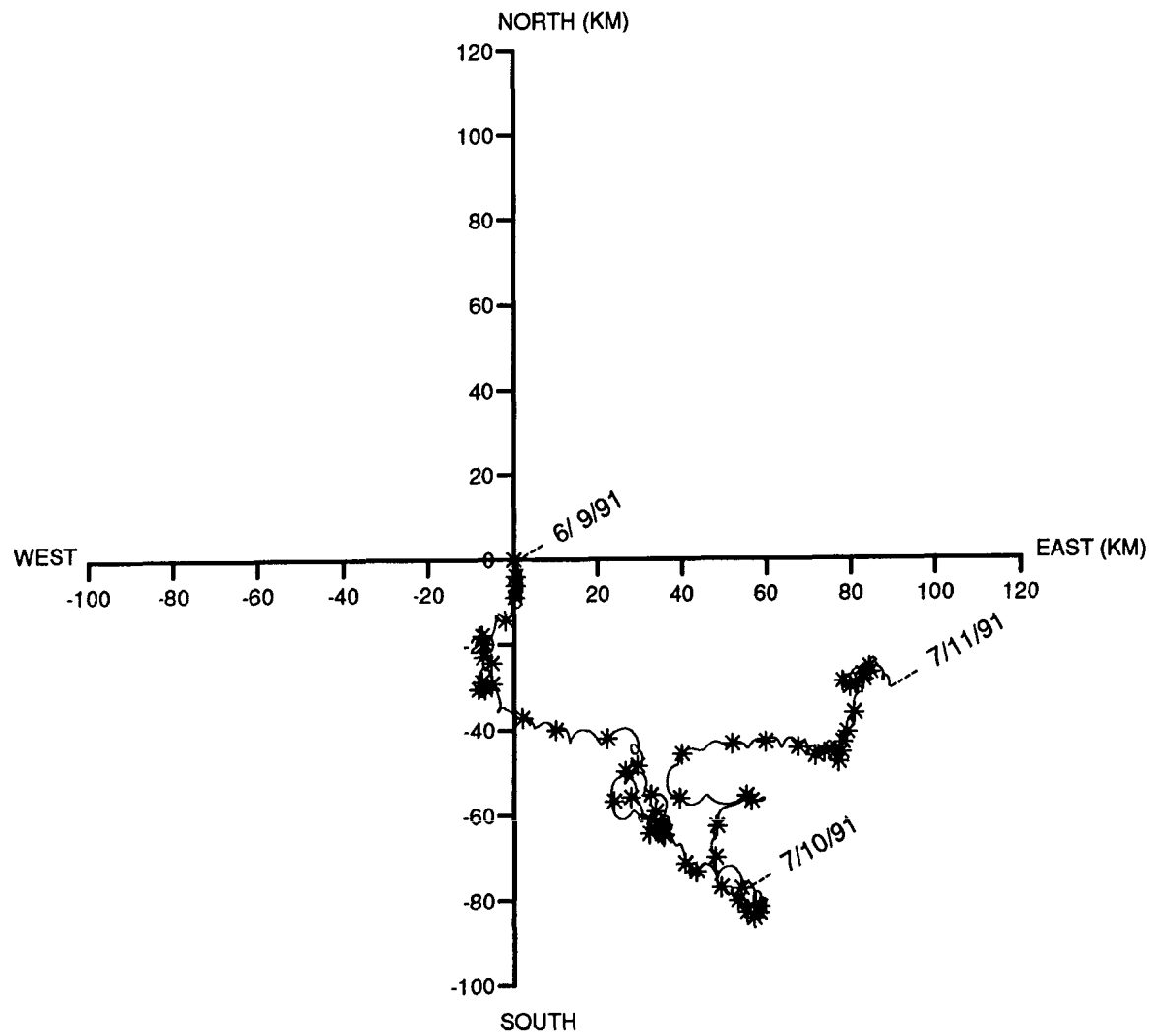


VECTOR PLOT

Meter no. 1261 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 92.0



Statistics for s41261t.00494s

	Mean	Variance	Standard deviation
Eastings	0.0166	0.93638431E-02	0.96766949E-01
Northings	-0.0056	0.19261815E-01	0.13878694E+00
Speed	0.1507	0.62195277E-02	0.78863986E-01
Vector mean speed	0.0175		
Vector Mean Direction	108.7		

Maximum ten values

Eastings					Northings				
0.380	0.375	0.371	0.370	0.369	0.386	0.384	0.381	0.374	0.371
0.368	0.367	0.367	0.362	0.358	0.368	0.365	0.365	0.365	0.363

Minimum ten values

Eastings					Northings				
-0.330	-0.333	-0.333	-0.333	-0.335	-0.401	-0.401	-0.403	-0.405	-0.405
-0.335	-0.336	-0.338	-0.342	-0.346	-0.410	-0.412	-0.415	-0.422	-0.427

Maximum speeds

0.443	0.438	0.436	0.435	0.435	0.426	0.424	0.418	0.416	0.415
0.414	0.414	0.414	0.413	0.413	0.409	0.407	0.407	0.406	0.405
0.402	0.401	0.401	0.400	0.400	0.398	0.397	0.394	0.394	0.393
0.393	0.393	0.390	0.390	0.389	0.389	0.389	0.388	0.387	0.387
0.386	0.386	0.384	0.384	0.383	0.382	0.382	0.382	0.382	0.381
0.380	0.380	0.379	0.378	0.378	0.377	0.376	0.375	0.375	0.374
0.374	0.373	0.373	0.373	0.373	0.372	0.372	0.371	0.371	0.371
0.370	0.370	0.370	0.370	0.370	0.368	0.368	0.368	0.368	0.367
0.367	0.366	0.366	0.366	0.366	0.364	0.362	0.360	0.360	0.359
0.358	0.358	0.358	0.356	0.356	0.355	0.355	0.355	0.354	0.354

Variance ellipse statistics

Maximum variance	0.1928E-01	Direction	-2.6
Minimum variance	0.9343E-02	Direction	87.4
Total variance	0.2863E-01	Ratio of variances	0.4845E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			8.9
Average direction. maxdir +PI/2 to maxdir -PI/2			173.8

Statistics for s41261t.00494sf

	Mean	Variance	Standard deviation
Eastings	0.0165	0.35646518E-02	0.59704706E-01
Northings	-0.0049	0.23949482E-02	0.48938207E-01
Speed	0.0643	0.21088994E-02	0.45922752E-01
Vector mean speed	0.0172		
Vector Mean Direction	106.5		

Maximum ten values

Eastings					Northings				
0.179	0.172	0.157	0.147	0.144	0.131	0.127	0.107	0.102	0.098
0.136	0.134	0.128	0.126	0.122	0.096	0.092	0.091	0.086	0.086

Minimum ten values

Eastings					Northings				
-0.086	-0.090	-0.094	-0.113	-0.121	-0.093	-0.093	-0.095	-0.100	-0.101
-0.124	-0.159	-0.174	-0.198	-0.203	-0.107	-0.110	-0.112	-0.120	-0.120

Maximum speeds

0.203	0.199	0.180	0.176	0.175	0.159	0.157	0.156	0.155	0.149
0.148	0.142	0.141	0.141	0.138	0.137	0.136	0.136	0.132	0.132
0.132	0.129	0.129	0.127	0.125	0.123	0.123	0.123	0.122	0.121
0.120	0.119	0.119	0.118	0.118	0.118	0.118	0.117	0.117	0.116
0.116	0.114	0.114	0.114	0.113	0.113	0.110	0.109	0.109	0.109
0.103	0.102	0.102	0.101	0.100	0.098	0.098	0.098	0.097	0.094
0.093	0.092	0.092	0.091	0.090	0.089	0.089	0.089	0.088	0.088
0.087	0.086	0.086	0.085	0.085	0.083	0.083	0.082	0.081	0.081
0.081	0.080	0.080	0.079	0.079	0.077	0.076	0.076	0.075	0.075
0.075	0.075	0.072	0.072	0.071	0.071	0.070	0.069	0.068	0.067

Variance ellipse statistics

Maximum variance	0.3685E-02	Direction	-73.0
Minimum variance	0.2274E-02	Direction	17.0
Total variance	0.5960E-02	Ratio of variances	0.6172E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			44.7
Average direction. maxdir +PI/2 to maxdir -PI/2			176.8

Meter information details for 9632

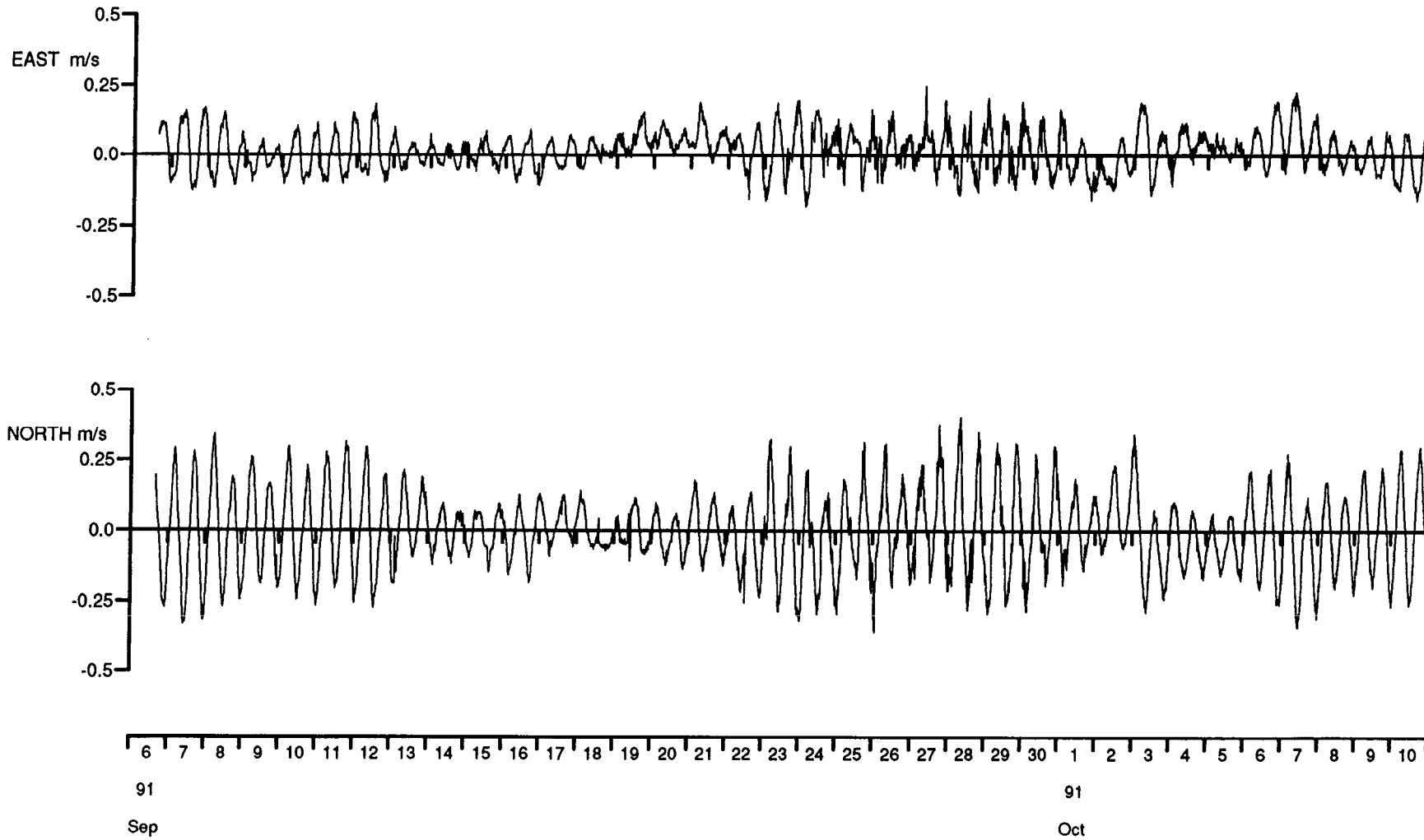
Rig No	:	00494
Meter No	:	9632
Recording interval	:	600.0 seconds
Meter height from bottom	:	75.0 m
Position of meter on rig	:	MT
Meter type	:	AS
Meter started	:	06-SEP-91 10:00:00
Time of last valid scan	:	29-OCT-91 18:20:00
Period of good data	:	53.1 days short record
Total number of scans	:	7648
Timing error	:	None
Comments	:	Good record obtained Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 75.0

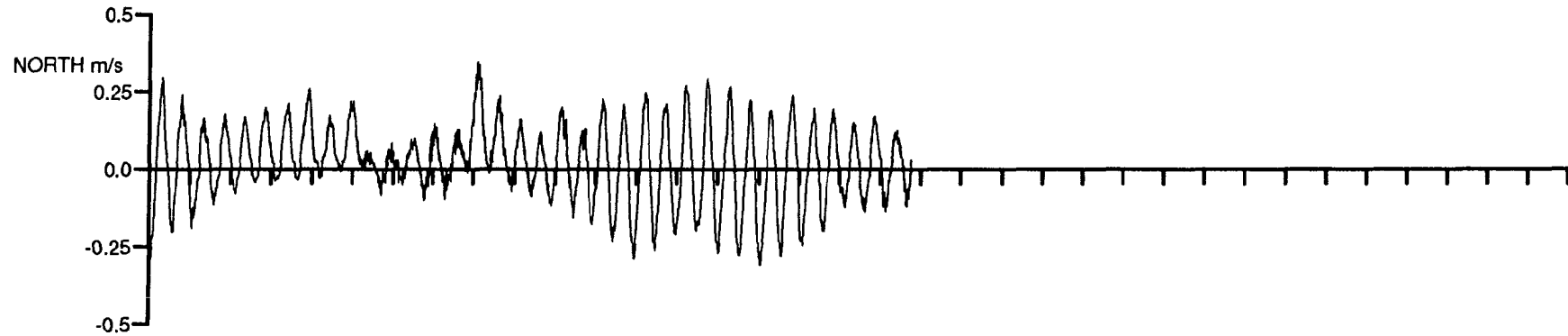
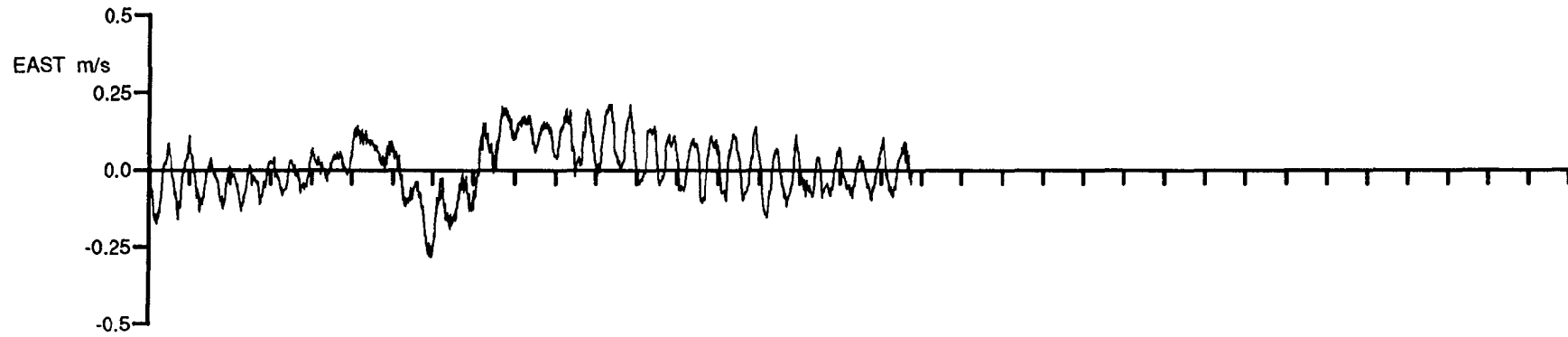


VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

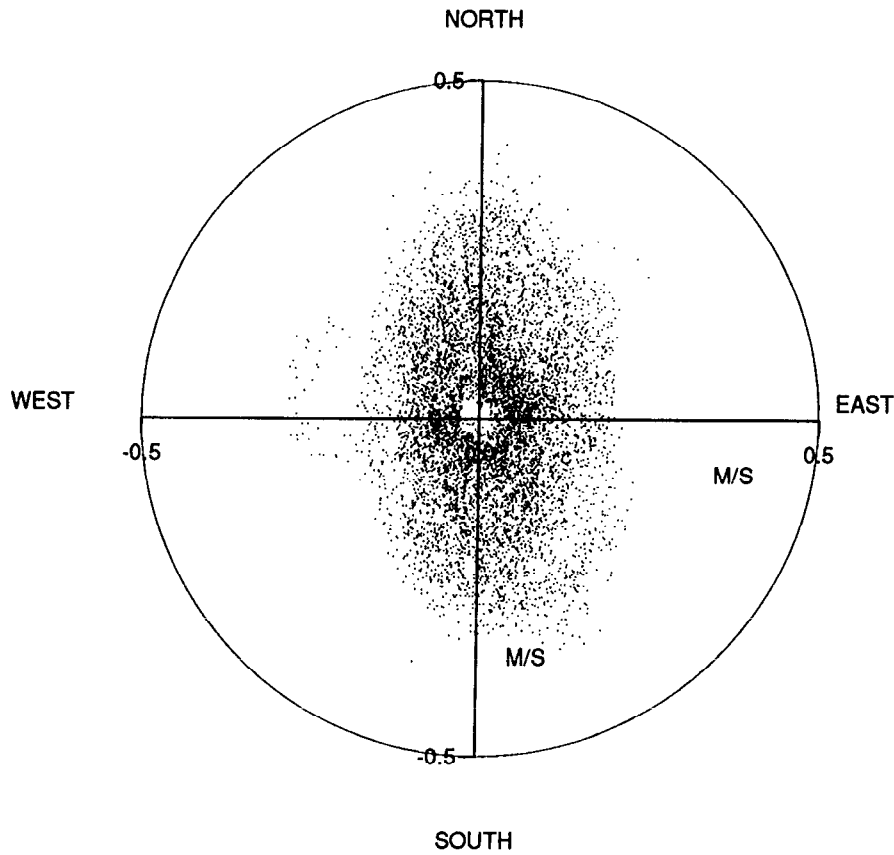
Position 59 40.13N 00 59.82E Meter Height(m) 75.0



11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14
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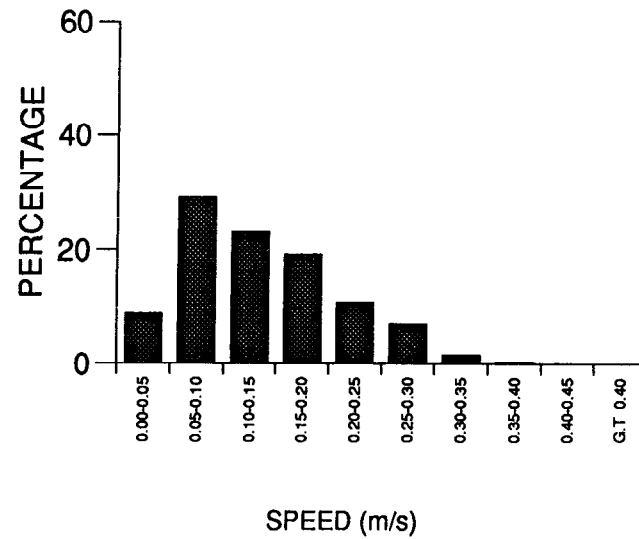
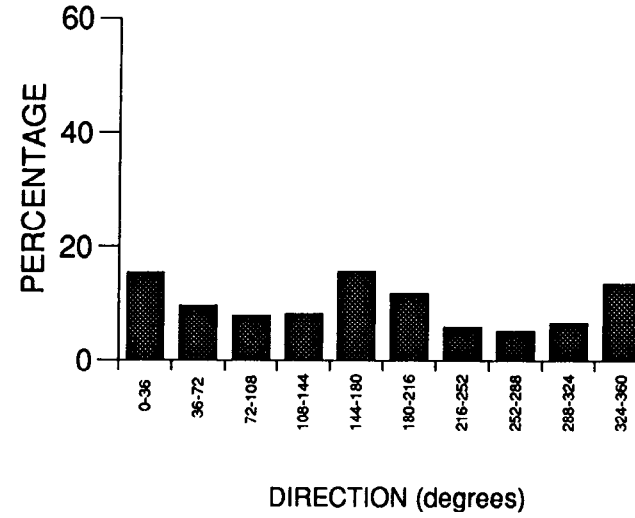
SCATTER PLOT

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 75.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 75.0

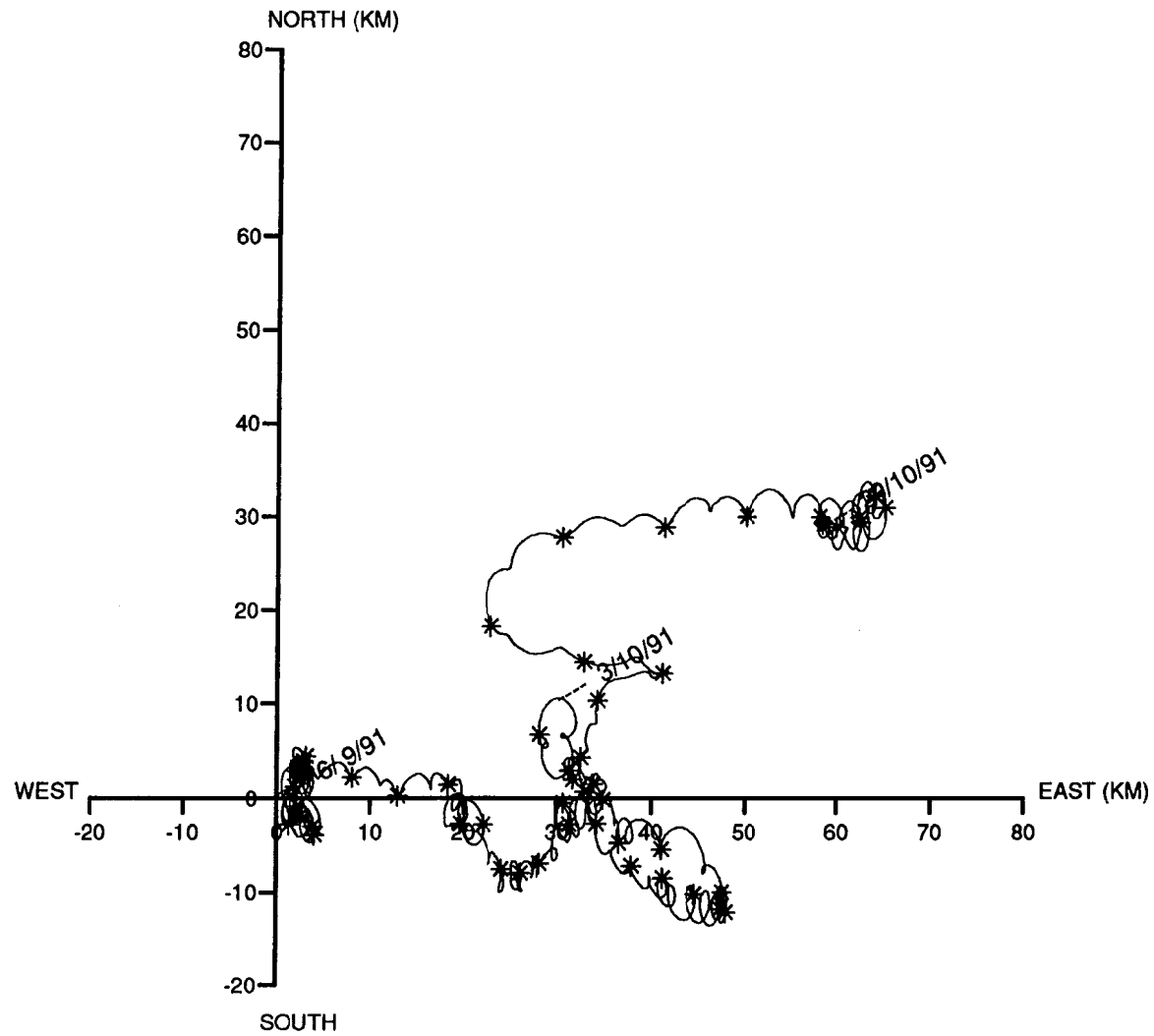


VECTOR PLOT

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 75.0



Statistics for as9632mt.00494s

	Mean	Variance	Standard deviation
Eastings	0.0128	0.59313406E-02	0.77015199E-01
Northings	0.0064	0.17648406E-01	0.13284731E+00
Speed	0.1361	0.52557825E-02	0.72496779E-01
Vector mean speed	0.0143		
Vector Mean Direction	63.4		

Maximum ten values

Eastings					Northings				
0.248	0.232	0.228	0.226	0.220	0.405	0.391	0.377	0.363	0.359
0.217	0.217	0.214	0.213	0.211	0.358	0.351	0.350	0.349	0.348

Minimum ten values

Eastings					Northings				
-0.271	-0.272	-0.272	-0.273	-0.274	-0.321	-0.321	-0.322	-0.323	-0.327
-0.275	-0.278	-0.280	-0.283	-0.283	-0.331	-0.333	-0.333	-0.341	-0.359

Maximum speeds

0.406	0.392	0.377	0.371	0.371	0.368	0.368	0.363	0.363	0.360
0.357	0.357	0.357	0.354	0.351	0.351	0.351	0.351	0.348	0.348
0.348	0.345	0.345	0.342	0.342	0.342	0.339	0.336	0.336	0.336
0.336	0.336	0.336	0.336	0.334	0.334	0.334	0.334	0.331	0.331
0.331	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.325
0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.322	0.322	0.322
0.322	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.316
0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316
0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313	0.313
0.313	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.307

Variance ellipse statistics

Maximum variance	0.1769E-01	Direction	-3.4
Minimum variance	0.5890E-02	Direction	86.6
Total variance	0.2358E-01	Ratio of variances	0.3330E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			9.1
Average direction. maxdir +PI/2 to maxdir -PI/2			175.5

Statistics for as9632mt.00494sf

	Mean	Variance	Standard deviation
Eastings	0.0146	0.23535043E-02	0.48512932E-01
Northings	0.0073	0.13765118E-02	0.37101373E-01
Speed	0.0516	0.13233529E-02	0.36377918E-01
Vector mean speed	0.0163		
Vector Mean Direction	63.5		

Maximum ten values

Eastings					Northings				
0.147	0.144	0.136	0.122	0.120	0.128	0.123	0.108	0.095	0.087
0.106	0.102	0.100	0.097	0.097	0.086	0.083	0.081	0.081	0.081

Minimum ten values

Eastings					Northings				
-0.050	-0.052	-0.067	-0.070	-0.074	-0.055	-0.056	-0.061	-0.062	-0.062
-0.106	-0.128	-0.150	-0.162	-0.170	-0.064	-0.067	-0.067	-0.071	-0.071

Maximum speeds

0.171	0.163	0.156	0.155	0.155	0.149	0.146	0.136	0.130	0.129
0.129	0.120	0.118	0.108	0.107	0.103	0.102	0.101	0.101	0.099
0.099	0.099	0.098	0.097	0.097	0.096	0.094	0.088	0.087	0.086
0.086	0.083	0.083	0.083	0.082	0.082	0.082	0.080	0.079	0.078
0.076	0.075	0.075	0.074	0.074	0.074	0.070	0.070	0.068	0.068
0.067	0.067	0.066	0.066	0.066	0.066	0.066	0.066	0.065	0.064
0.064	0.063	0.063	0.063	0.061	0.060	0.060	0.060	0.060	0.059
0.059	0.058	0.057	0.057	0.056	0.055	0.054	0.048	0.048	0.047
0.047	0.046	0.046	0.045	0.045	0.044	0.044	0.044	0.043	0.043
0.043	0.043	0.043	0.043	0.042	0.042	0.041	0.041	0.041	0.039

Variance ellipse statistics

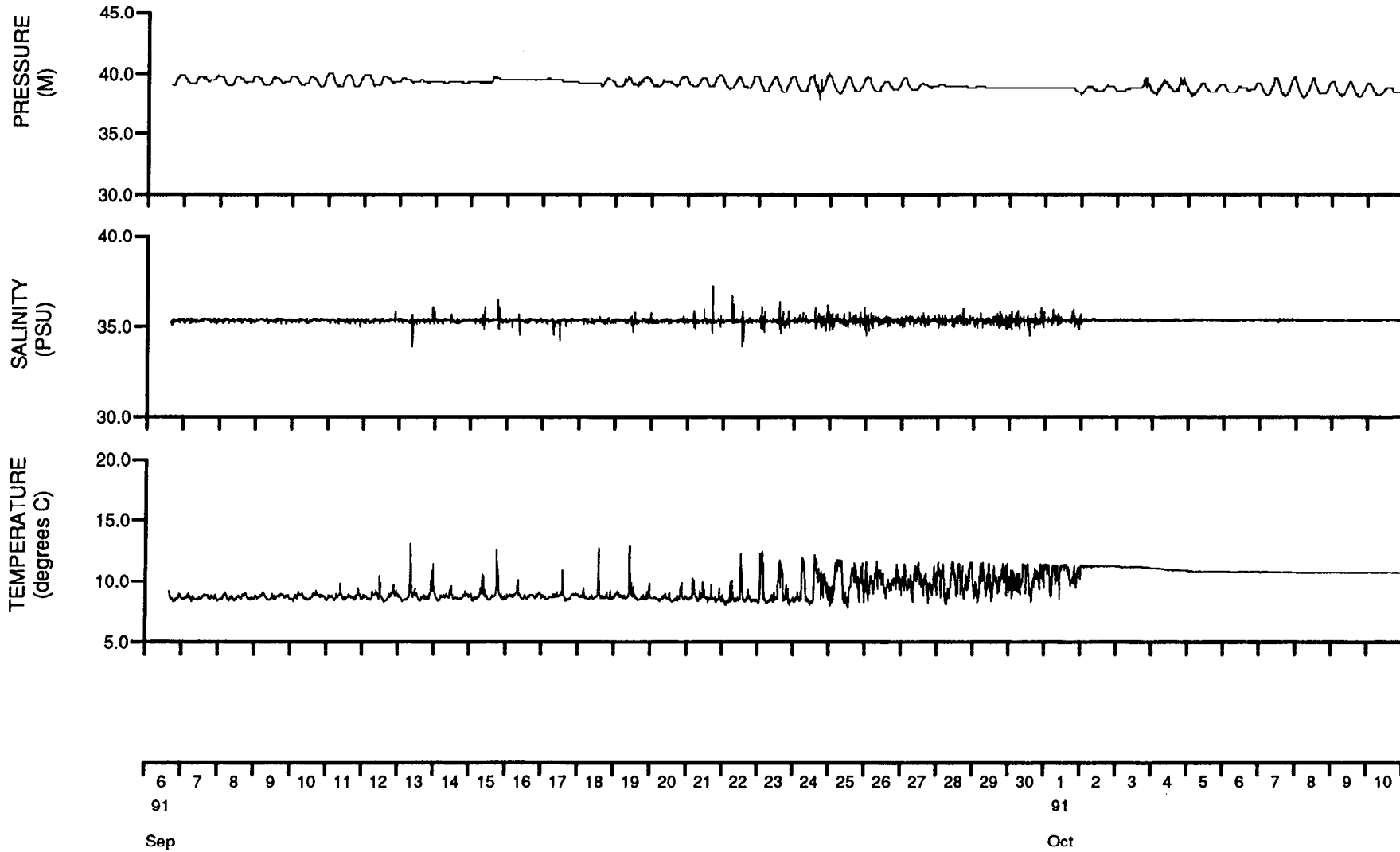
Maximum variance	0.2435E-02	Direction	-74.5
Minimum variance	0.1295E-02	Direction	15.5
Total variance	0.3730E-02	Ratio of variances	0.5320E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			34.9
Average direction. maxdir +PI/2 to maxdir -PI/2			177.0

TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 75.0

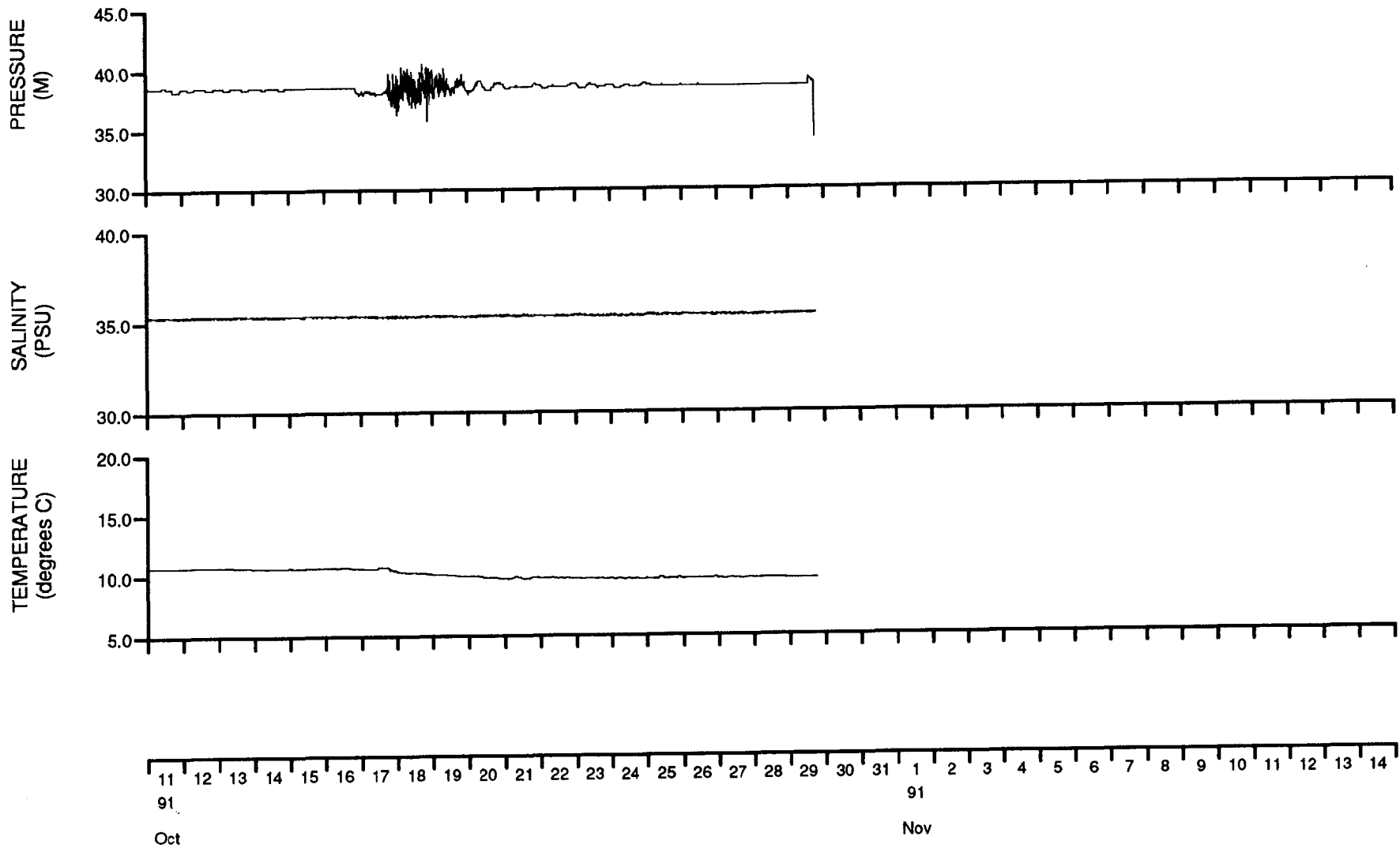


TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9632 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 75.0



Meter information details for 9680

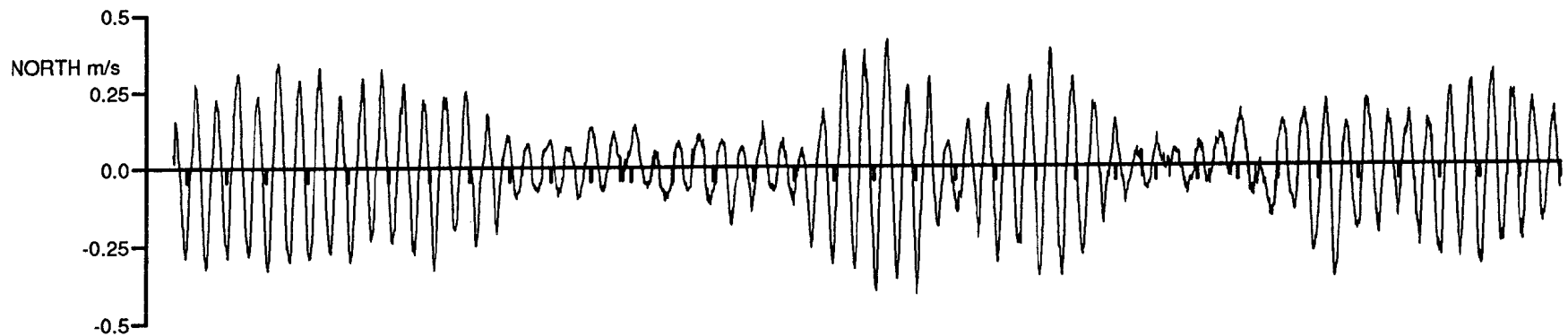
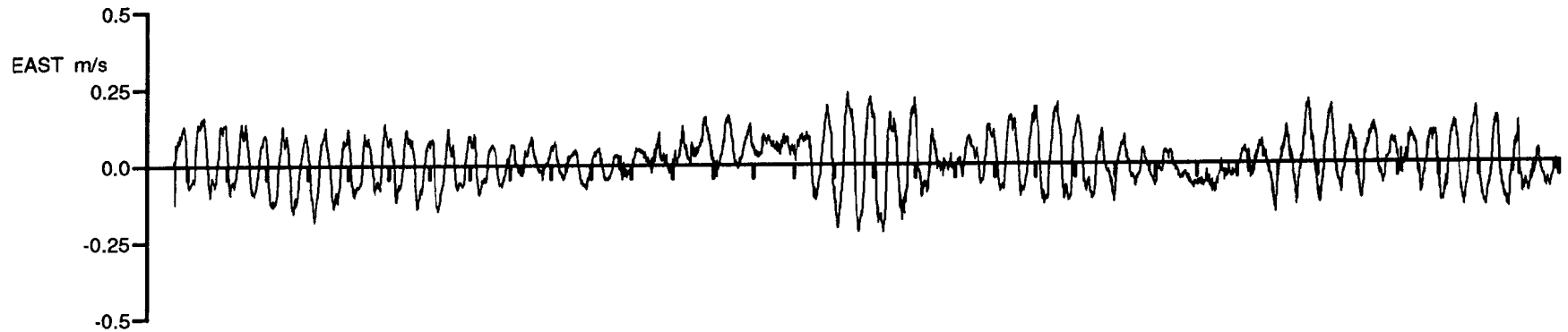
Rig No	:	00494
Meter No	:	9680
Recording interval	:	600.0 seconds
Meter height from bottom	:	50.0 m
Position of meter on rig	:	MB
Meter type	:	AS
Meter started	:	06-SEP-91 10:20:00
Meter stopped	:	10-NOV-91 09:01:15
Period switched on	:	64.9 days
Period of good data	:	62.0 days
Total number of scans	:	8921
Timing error	:	75 seconds slow
Comments	:	Internal clock incorrectly set to 11:20 at start when it should have been 10:20 Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 50.0



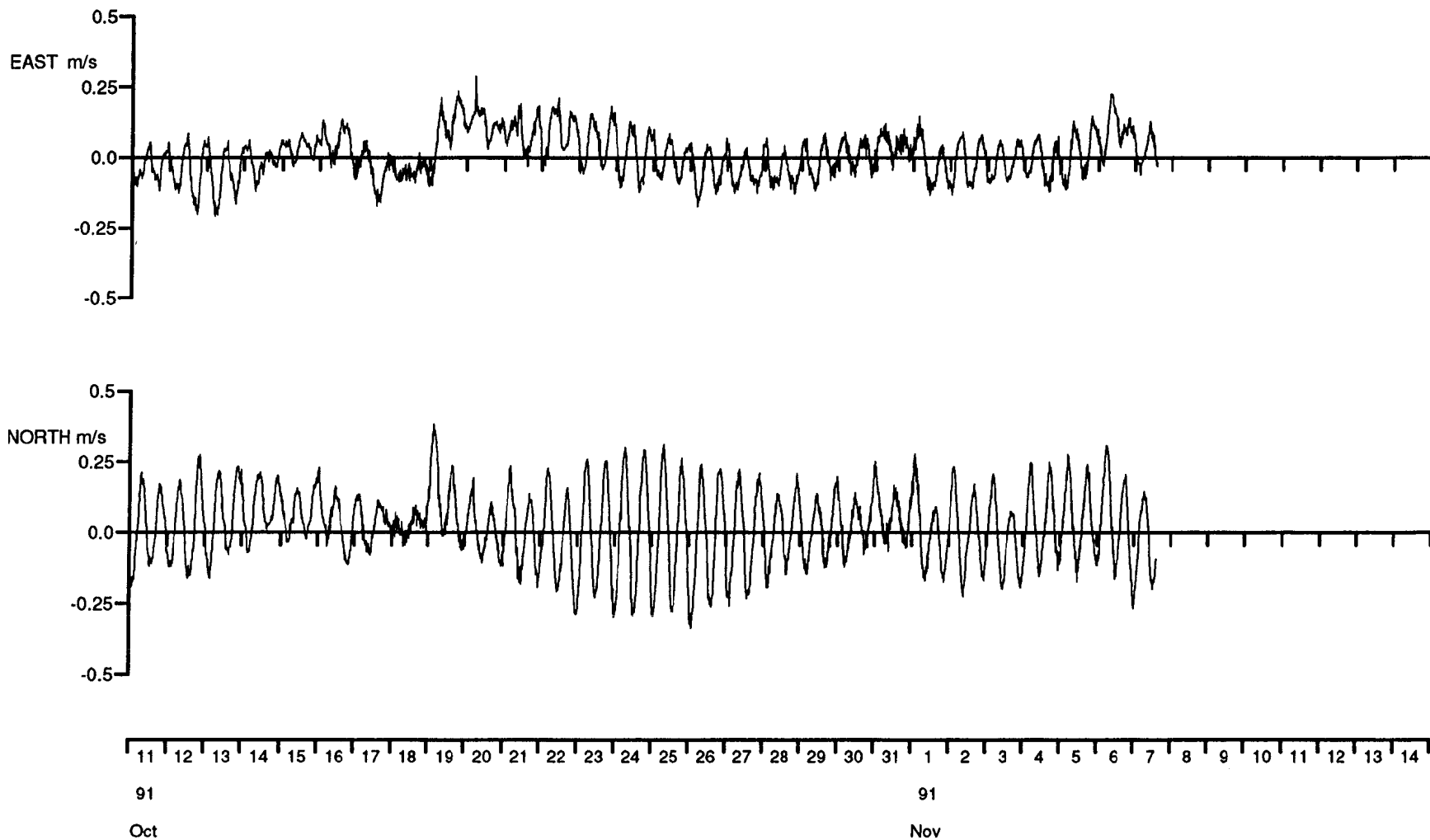
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
91 91
Sep Oct

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0

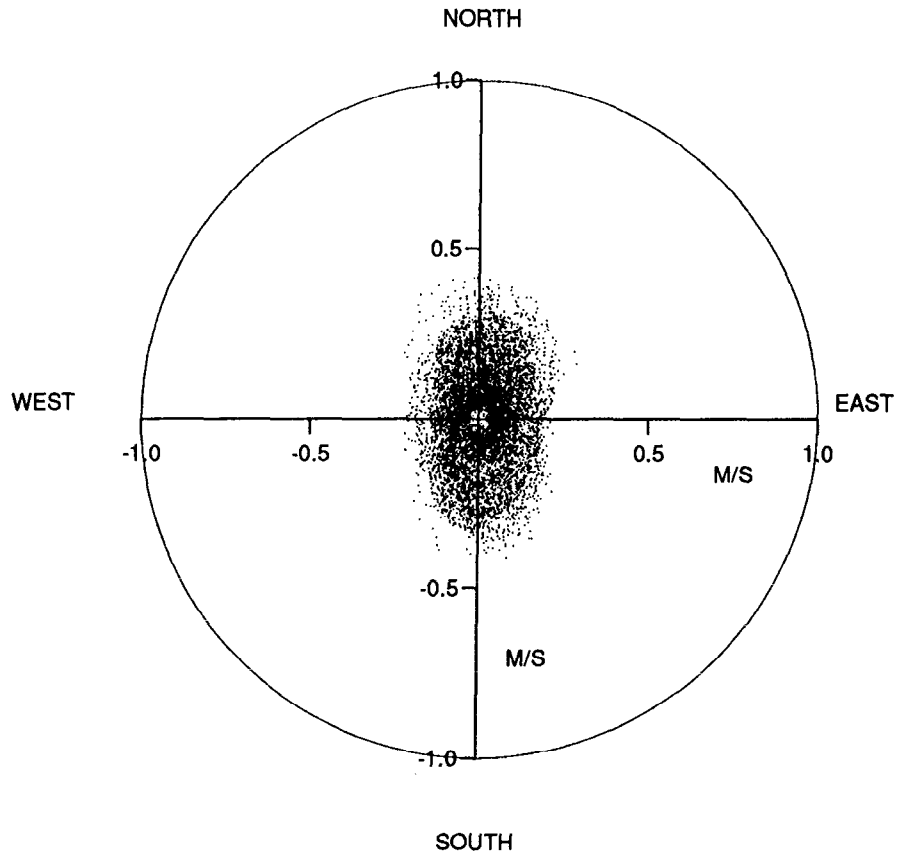
Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 50.0



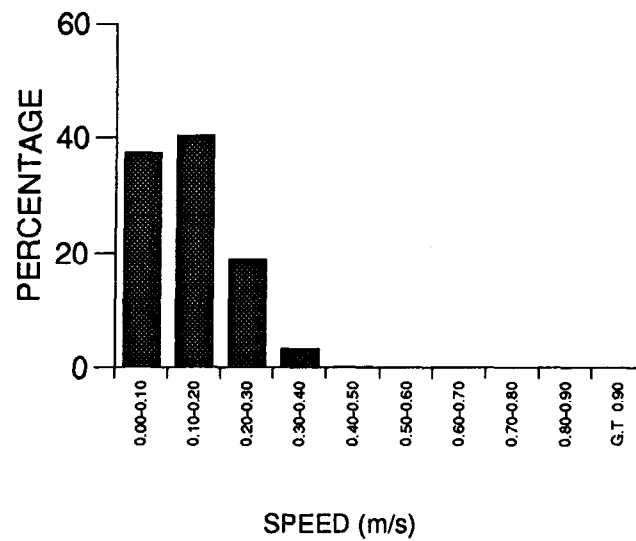
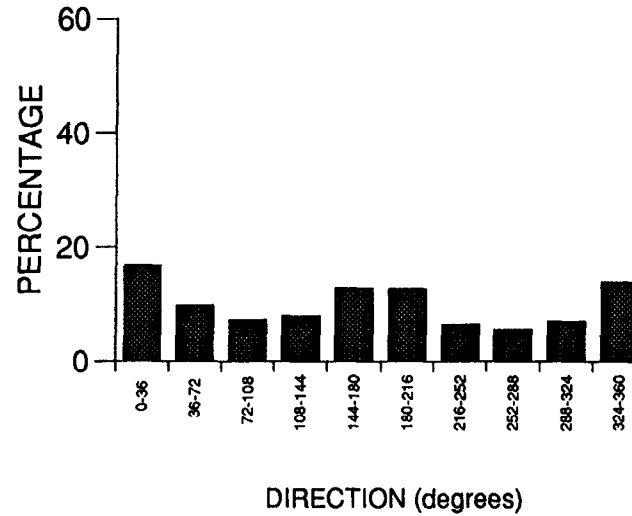
SCATTER PLOT

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 50.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 50.0

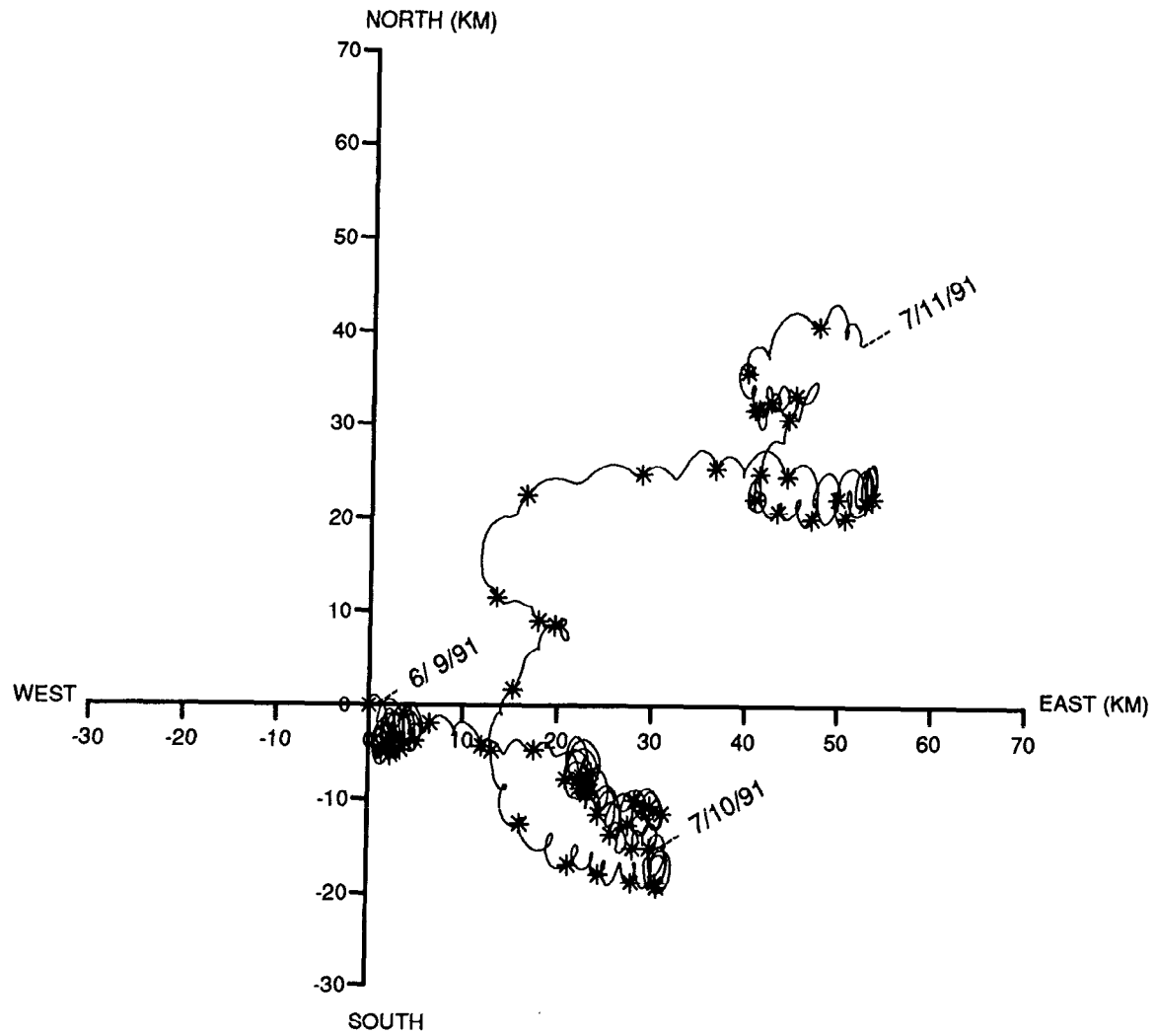


VECTOR PLOT

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 50.0



Statistics for as9680mb.00494s

	Mean	Variance	Standard deviation
Eastings	0.0097	0.61396467E-02	0.78355901E-01
Northings	0.0072	0.19689238E-01	0.14031835E+00
Speed	0.1417	0.59022503E-02	0.76826103E-01
Vector mean speed	0.0121		
Vector Mean Direction	53.2		

Maximum ten values

Eastings					Northings				
0.286	0.281	0.249	0.235	0.234	0.415	0.412	0.408	0.407	0.401
0.231	0.224	0.224	0.223	0.222	0.394	0.390	0.385	0.385	0.383

Minimum ten values

Eastings					Northings				
-0.208	-0.209	-0.210	-0.211	-0.214	-0.377	-0.382	-0.383	-0.387	-0.388
-0.214	-0.218	-0.218	-0.219	-0.221	-0.389	-0.389	-0.397	-0.403	-0.412

Maximum speeds

0.421	0.415	0.415	0.412	0.409	0.409	0.406	0.403	0.403	0.403
0.397	0.397	0.395	0.395	0.395	0.392	0.392	0.389	0.389	0.389
0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.383	0.383
0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.377	0.377	0.374
0.374	0.374	0.371	0.371	0.368	0.368	0.368	0.368	0.366	0.366
0.366	0.366	0.366	0.363	0.363	0.363	0.363	0.363	0.363	0.363
0.360	0.360	0.360	0.360	0.360	0.360	0.357	0.357	0.357	0.357
0.357	0.357	0.357	0.354	0.354	0.354	0.354	0.354	0.351	0.351
0.351	0.351	0.351	0.351	0.351	0.351	0.348	0.348	0.348	0.348
0.348	0.348	0.348	0.348	0.345	0.345	0.345	0.345	0.345	0.345

Variance ellipse statistics

Maximum variance	0.1970E-01	Direction	1.6
Minimum variance	0.6129E-02	Direction	91.6
Total variance	0.2583E-01	Ratio of variances	0.3111E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			4.6
Average direction. maxdir +PI/2 to maxdir -PI/2			176.2

Statistics for as9680mb.00494sf

	Mean	Variance	Standard deviation
Eastings	0.0077	0.16829622E-02	0.41023921E-01
Northings	0.0071	0.10595842E-02	0.32551255E-01
Speed	0.0429	0.10067282E-02	0.31728979E-01
Vector mean speed	0.0105		
Vector Mean Direction	47.4		

Maximum ten values

Eastings					Northings				
0.154	0.152	0.135	0.134	0.114	0.136	0.136	0.108	0.107	0.092
0.096	0.092	0.092	0.091	0.087	0.088	0.088	0.081	0.081	0.080

Minimum ten values

Eastings					Northings				
-0.056	-0.057	-0.059	-0.060	-0.061	-0.036	-0.037	-0.038	-0.038	-0.038
-0.063	-0.064	-0.064	-0.070	-0.071	-0.039	-0.042	-0.056	-0.059	-0.066

Maximum speeds

0.172	0.167	0.165	0.154	0.142	0.136	0.114	0.109	0.096	0.096
0.095	0.093	0.093	0.093	0.093	0.093	0.092	0.091	0.089	0.088
0.088	0.085	0.085	0.084	0.083	0.083	0.083	0.082	0.081	0.080
0.080	0.079	0.079	0.079	0.075	0.074	0.073	0.073	0.072	0.070
0.070	0.069	0.069	0.068	0.068	0.067	0.067	0.067	0.067	0.066
0.065	0.065	0.064	0.064	0.064	0.064	0.063	0.062	0.062	0.060
0.058	0.057	0.056	0.055	0.051	0.051	0.051	0.050	0.050	0.049
0.049	0.048	0.047	0.046	0.046	0.046	0.045	0.045	0.044	0.044
0.043	0.043	0.043	0.042	0.042	0.042	0.042	0.041	0.041	0.040
0.040	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.038	0.038

Variance ellipse statistics

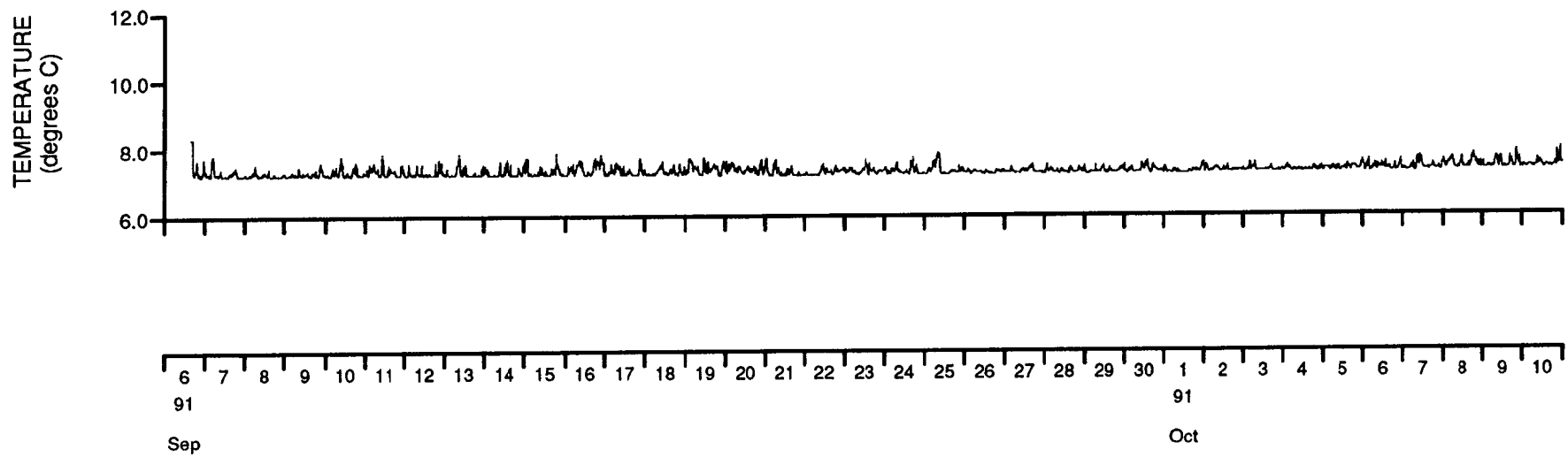
Maximum variance	0.1685E-02	Direction	87.0
Minimum variance	0.1058E-02	Direction	177.0
Total variance	0.2743E-02	Ratio of variances	0.6279E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			2.7
Average direction. maxdir +PI/2 to maxdir -PI/2			187.5

TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 50.0

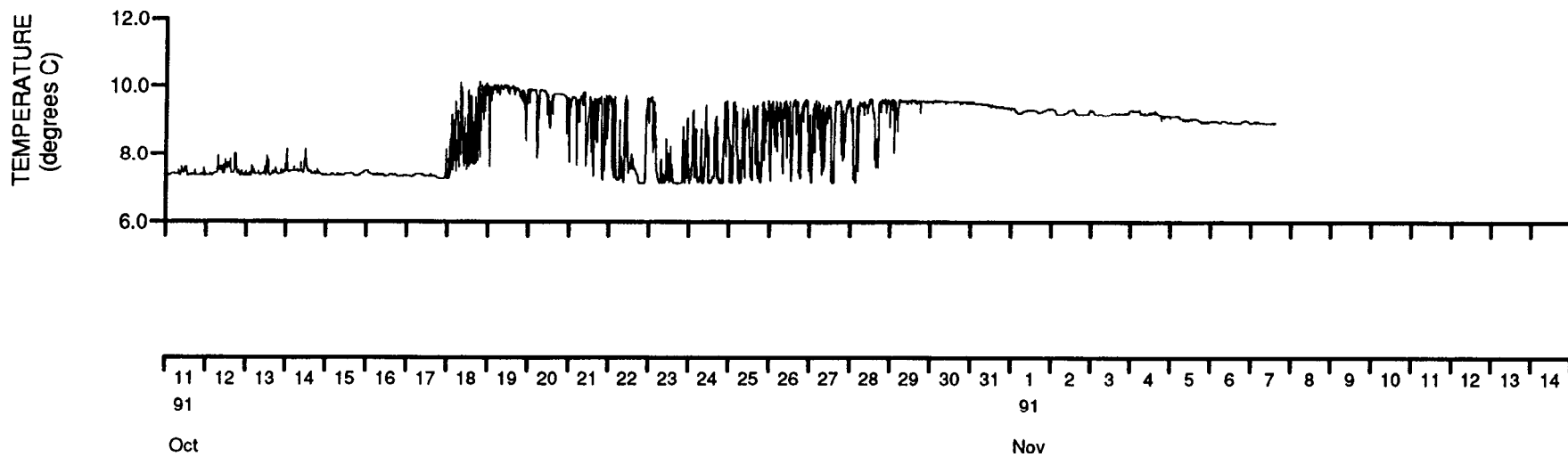


TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9680 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 50.0



Meter information details for 7570

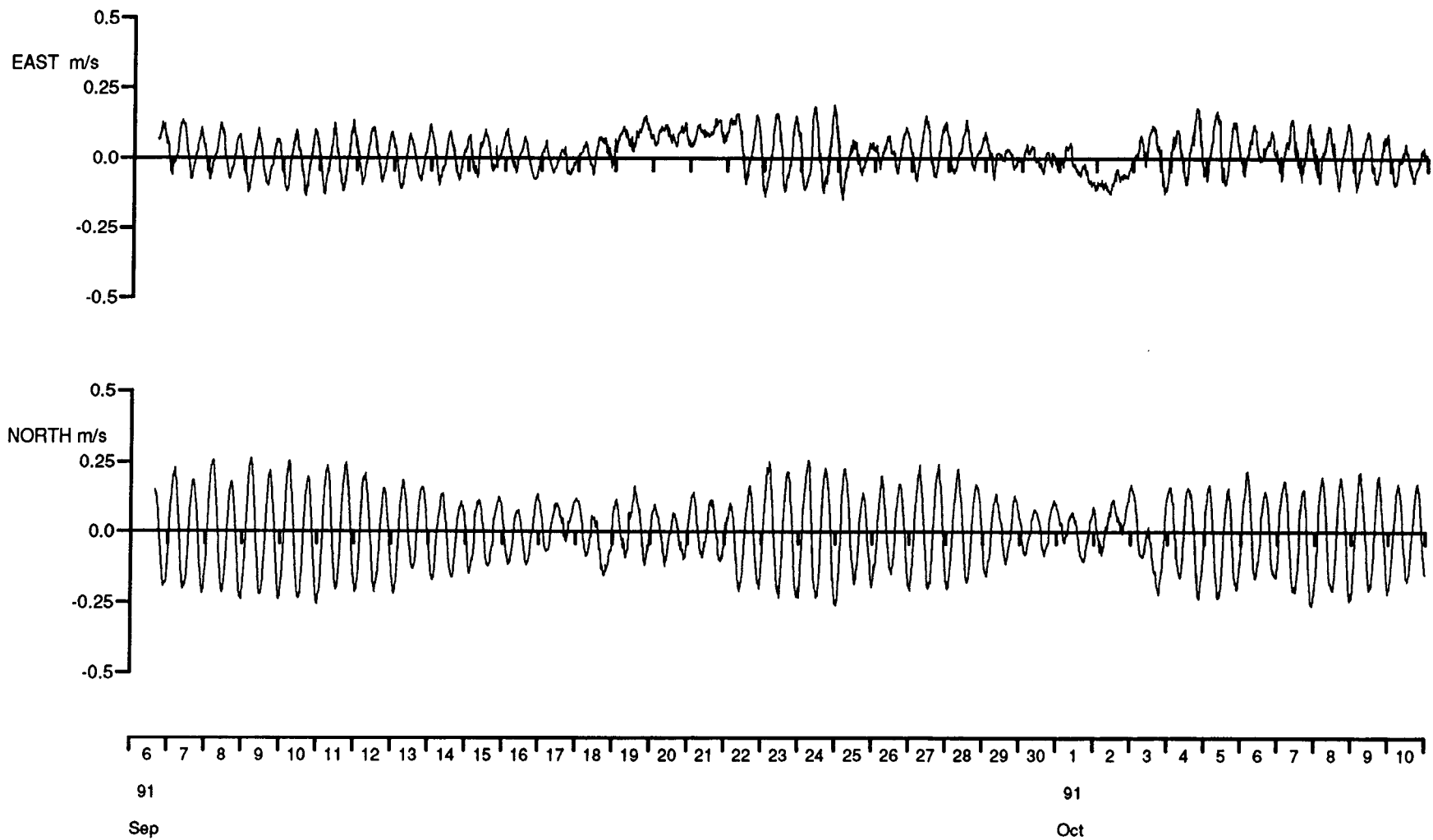
Rig No	:	00494
Meter No	:	7570
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.0 m
Position of meter on rig	:	B
Meter type	:	AA
Meter started	:	06-SEP-91 10:50:00
Time of last valid scan	:	31-OCT-91 23:50:00
Period of good data	:	55.3 days short record
Total number of scans	:	7969
Timing error	:	None
Comments	:	Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 10.0

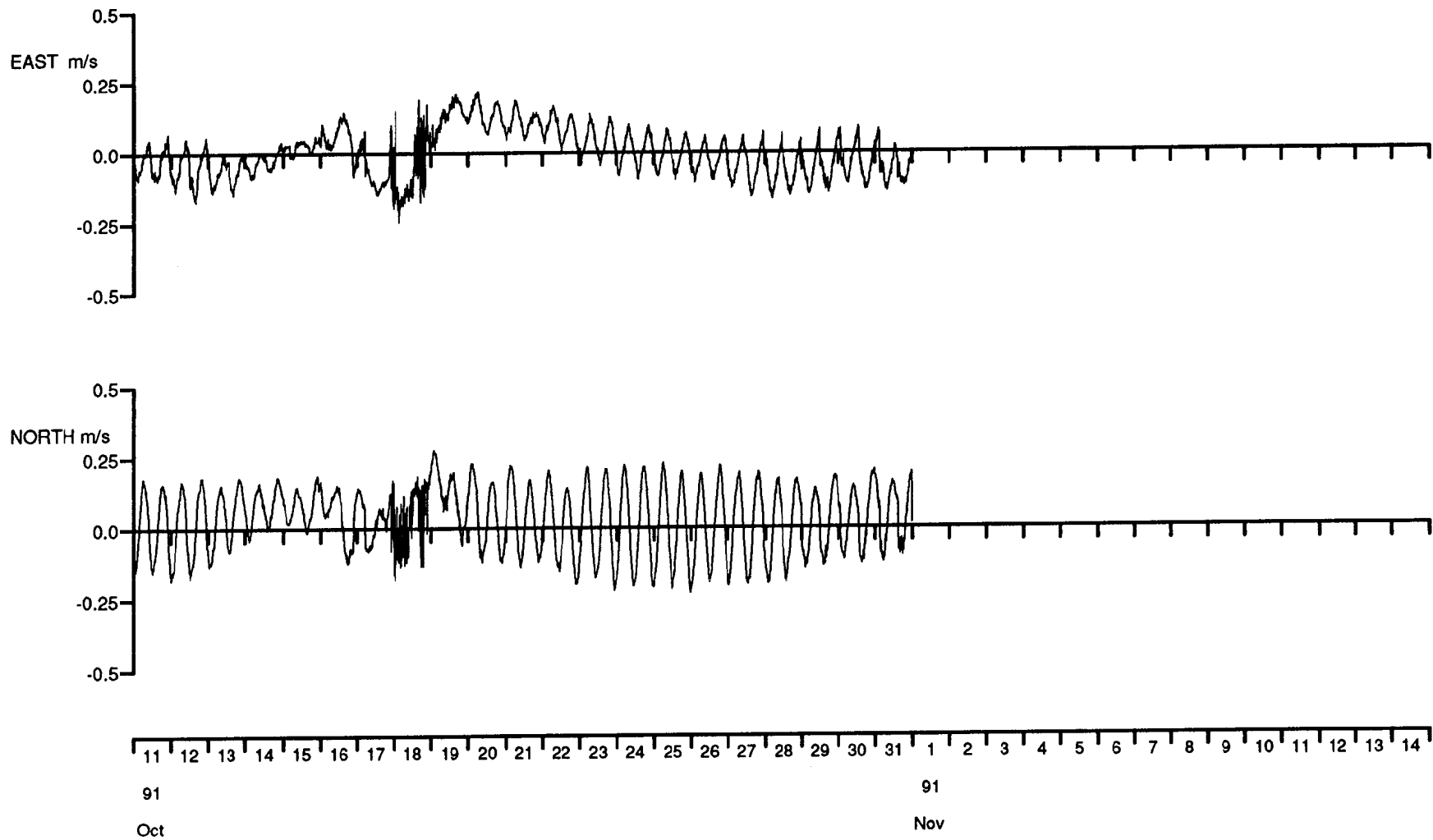


VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0

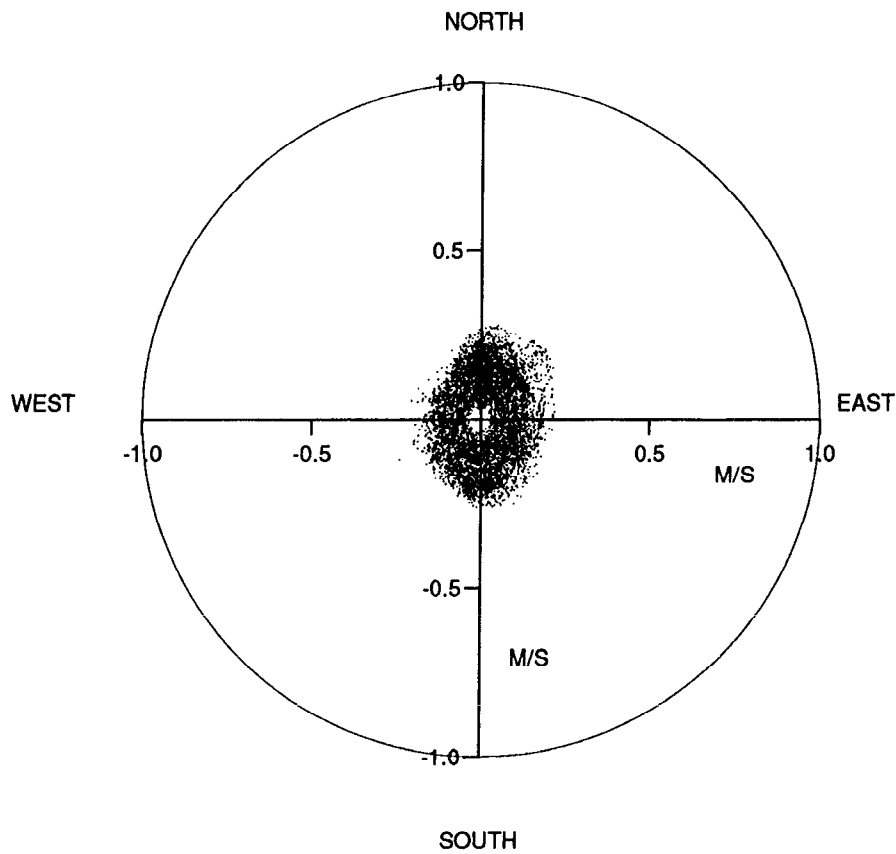
Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 10.0



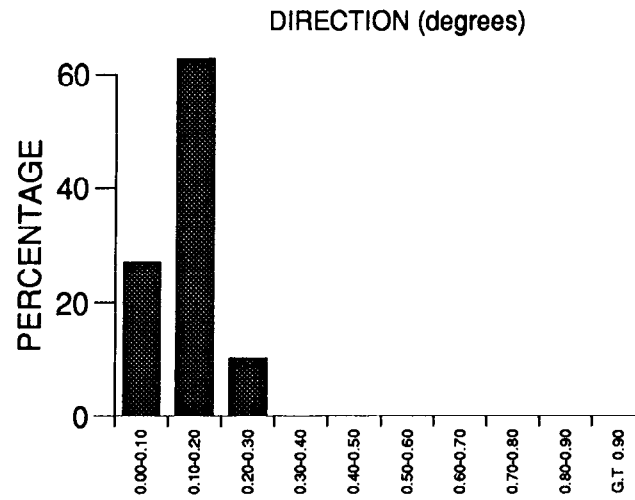
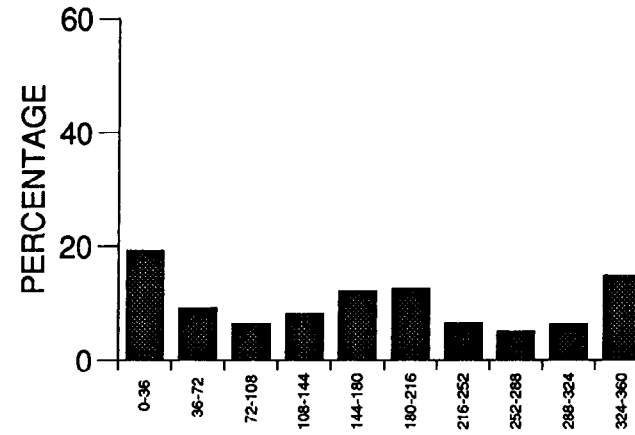
SCATTER PLOT

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 10.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0
 Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00
 Position 59 40.13N 00 59.82E Meter Height(m) 10.0



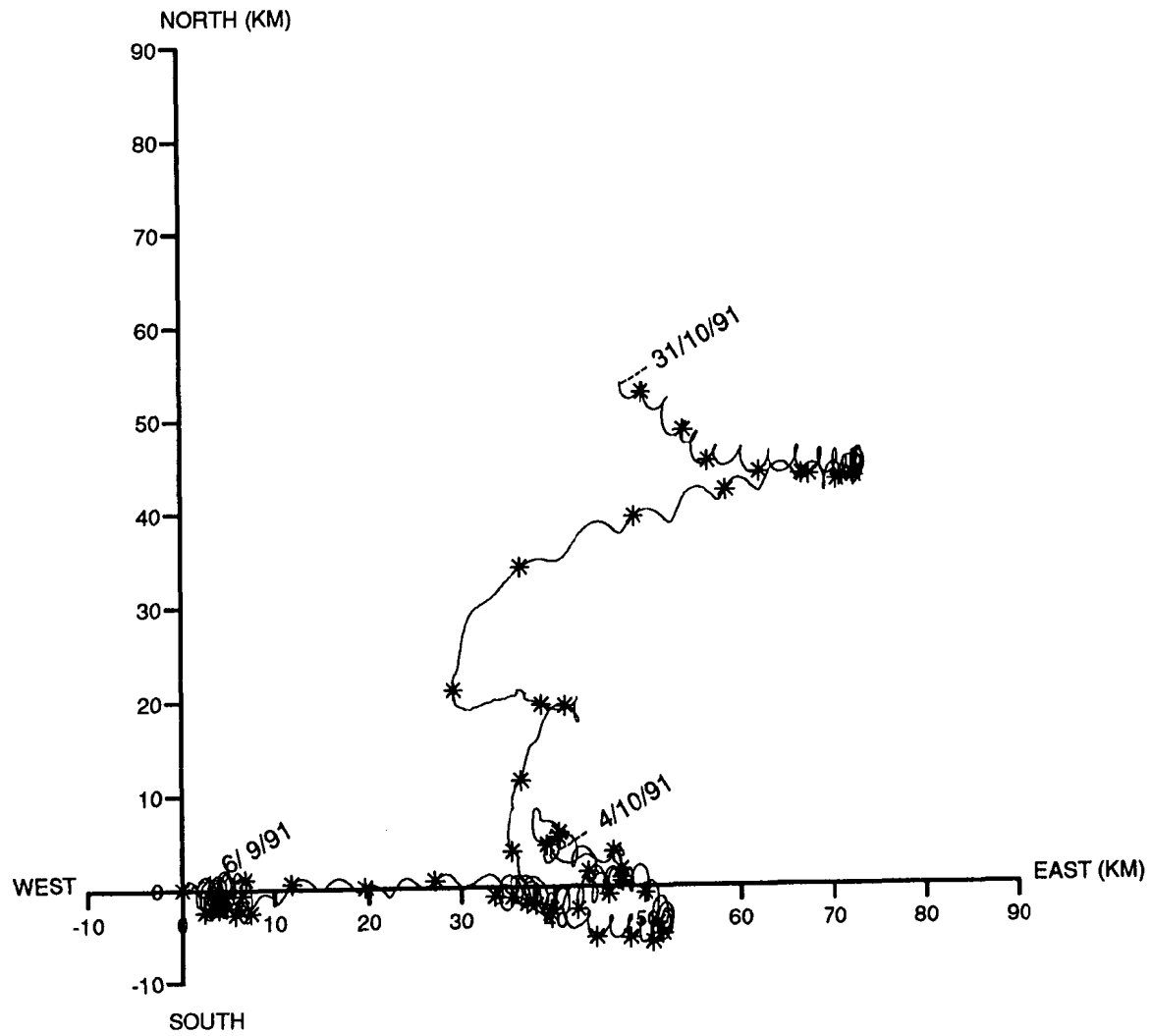
SPEED (m/s)

VECTOR PLOT

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 10.0



Statistics for aa7570b.00494s

	Mean	Variance	Standard deviation
Eastings	0.0099	0.55658938E-02	0.74604921E-01
Northings	0.0114	0.14739130E-01	0.12140482E+00
Speed	0.1345	0.24323000E-02	0.49318351E-01
Vector mean speed	0.0151		
Vector Mean Direction	40.9		

Maximum ten values

Eastings					Northings				
0.216	0.215	0.211	0.211	0.211	0.277	0.274	0.272	0.270	0.270
0.211	0.208	0.208	0.208	0.207	0.269	0.268	0.267	0.267	0.266

Minimum ten values

Eastings					Northings				
-0.188	-0.188	-0.188	-0.189	-0.196	-0.254	-0.255	-0.255	-0.255	-0.255
-0.198	-0.200	-0.200	-0.207	-0.245	-0.256	-0.256	-0.258	-0.259	-0.261

Maximum speeds

0.281	0.278	0.275	0.275	0.275	0.275	0.273	0.273	0.273	0.273
0.273	0.273	0.273	0.273	0.273	0.270	0.270	0.270	0.270	0.270
0.270	0.270	0.270	0.270	0.270	0.267	0.267	0.267	0.267	0.267
0.267	0.264	0.264	0.264	0.261	0.261	0.261	0.261	0.261	0.261
0.261	0.261	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259
0.259	0.259	0.259	0.259	0.259	0.256	0.256	0.256	0.256	0.256
0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.253	0.253
0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
0.253	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
0.250	0.250	0.250	0.250	0.250	0.250	0.247	0.247	0.247	0.247

Variance ellipse statistics

Maximum variance	0.1483E-01	Direction	5.6
Minimum variance	0.5476E-02	Direction	95.6
Total variance	0.2030E-01	Ratio of variances	0.3693E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			2.6
Average direction. maxdir +PI/2 to maxdir -PI/2			175.4

Statistics for aa7570b.00494sf

	Mean	Variance	Standard deviation
Eastings	0.0129	0.26643293E-02	0.51617142E-01
Northings	0.0106	0.11016200E-02	0.33190660E-01
Speed	0.0489	0.16441147E-02	0.40547684E-01
Vector mean speed	0.0167		
Vector Mean Direction	50.7		

Maximum ten values

Eastings					Northings				
0.165	0.161	0.154	0.138	0.136	0.159	0.155	0.133	0.126	0.091
0.123	0.114	0.109	0.107	0.106	0.090	0.088	0.087	0.086	0.086

Minimum ten values

Eastings					Northings				
-0.069	-0.069	-0.070	-0.081	-0.089	-0.030	-0.032	-0.036	-0.036	-0.037
-0.097	-0.099	-0.111	-0.130	-0.134	-0.040	-0.040	-0.042	-0.043	-0.043

Maximum speeds

0.206	0.205	0.187	0.181	0.164	0.143	0.135	0.134	0.130	0.128
0.119	0.115	0.114	0.113	0.112	0.108	0.106	0.105	0.104	0.103
0.102	0.099	0.099	0.098	0.098	0.097	0.096	0.096	0.095	0.093
0.093	0.092	0.092	0.089	0.088	0.088	0.087	0.087	0.087	0.086
0.085	0.084	0.084	0.082	0.082	0.080	0.080	0.079	0.075	0.074
0.074	0.070	0.070	0.069	0.068	0.068	0.065	0.065	0.064	0.061
0.061	0.060	0.059	0.057	0.055	0.054	0.054	0.053	0.053	0.050
0.049	0.049	0.049	0.048	0.048	0.048	0.047	0.045	0.045	0.044
0.043	0.043	0.042	0.041	0.041	0.039	0.038	0.038	0.038	0.038
0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.035	0.035	0.034

Variance ellipse statistics

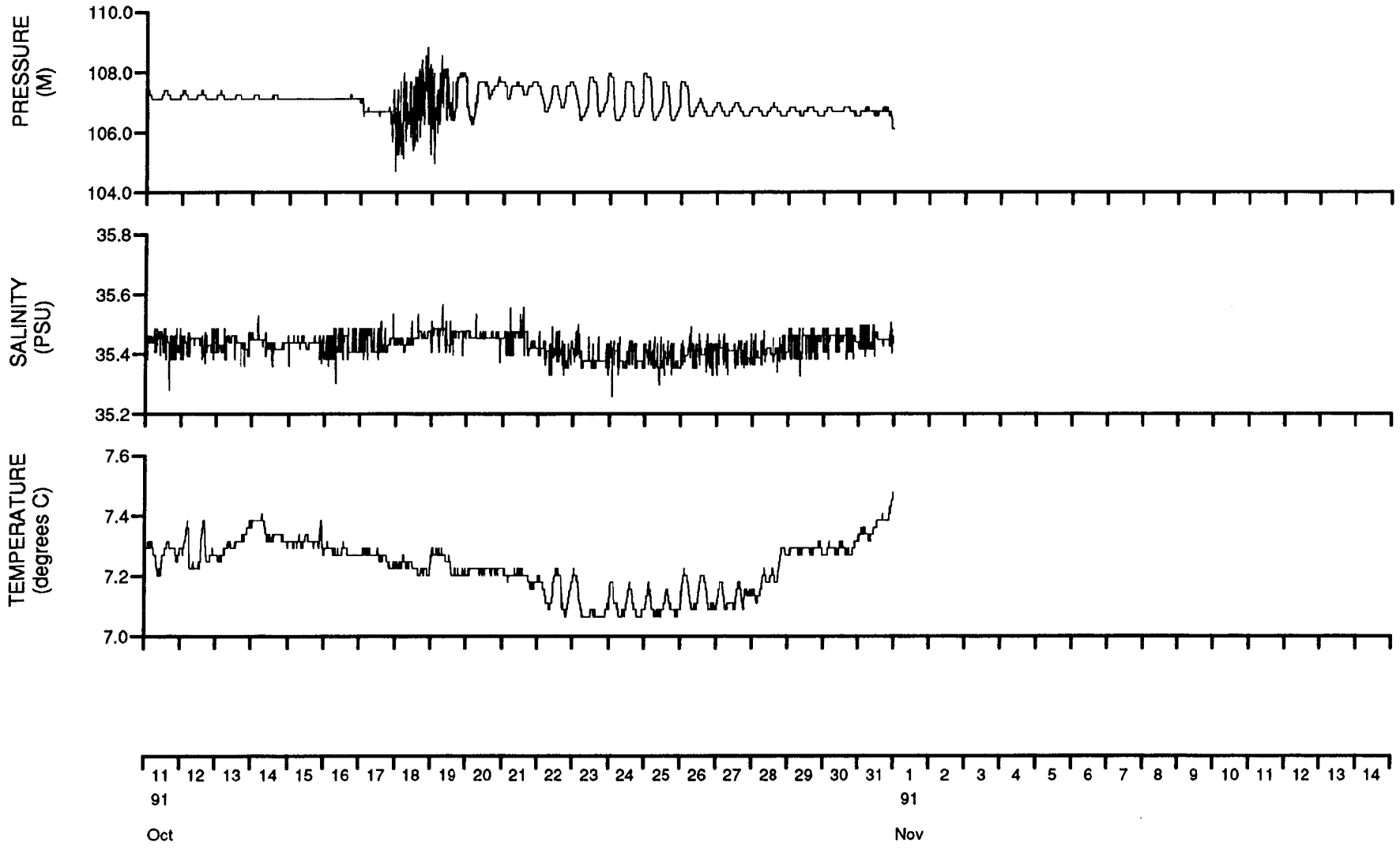
Maximum variance	0.2719E-02	Direction	79.6
Minimum variance	0.1047E-02	Direction	169.6
Total variance	0.3766E-02	Ratio of variances	0.3853E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			4.2
Average direction. maxdir +PI/2 to maxdir -PI/2			194.7

TEMPERATURE, SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 10.0

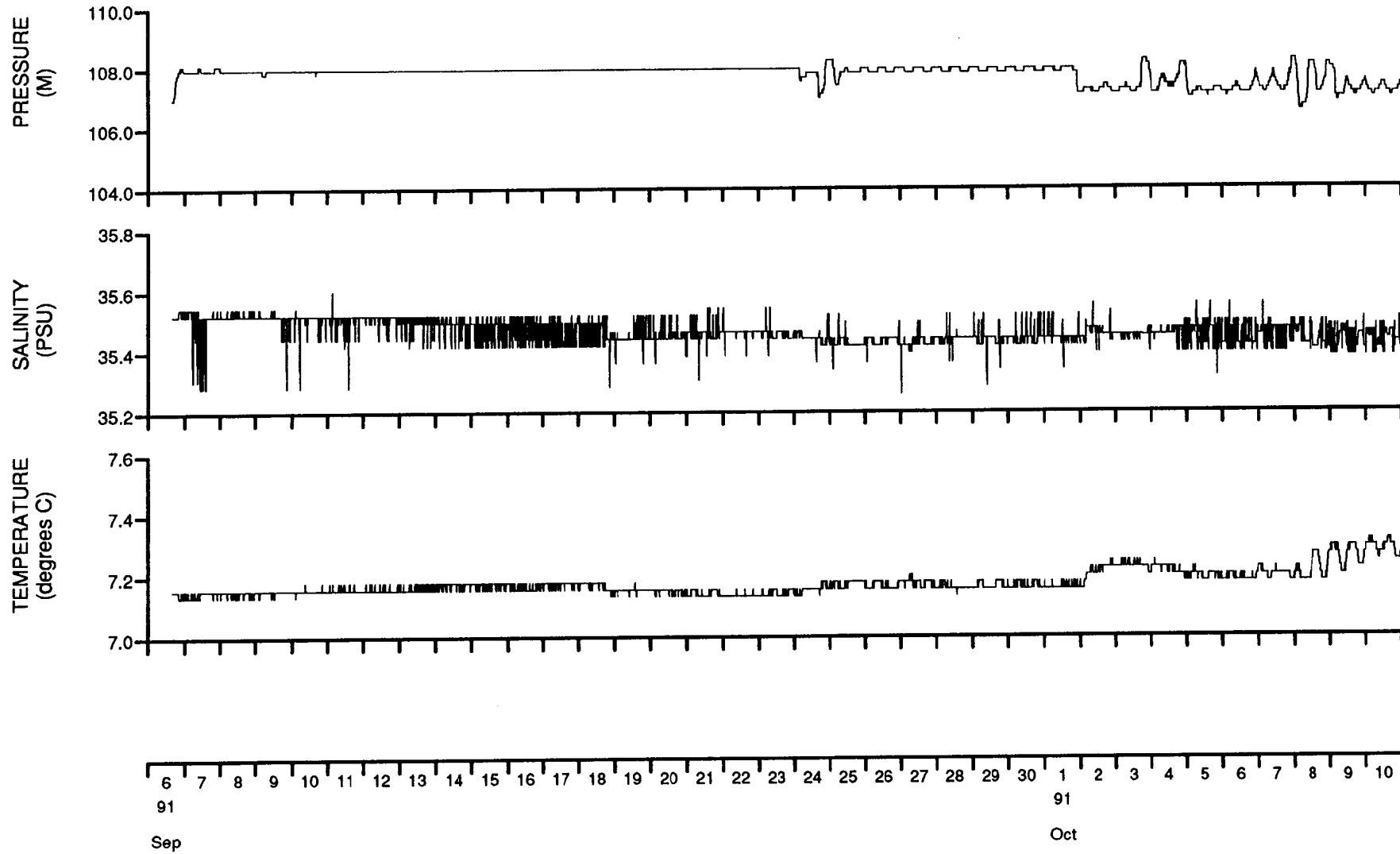


TEMPERATURE, SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 7570 Rig no. 00494 Depth of water(m) 115.0

Start/End 1991/09/06 AT 15:40:00 1991/11/07 AT 14:27:00

Position 59 40.13N 00 59.82E Meter Height(m) 10.0



Rig information details for 00495

Position Latitude	:	59 39.97N
Position Longitude	:	01 00.75E
Water depth	:	118.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	AH
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 18:17:00
Rig recovered on	:	15-SEP-91 12:08:00
Period of deployment	:	7.7 days
Comments	:	Launch and recovery successful

Meter information details for 0956

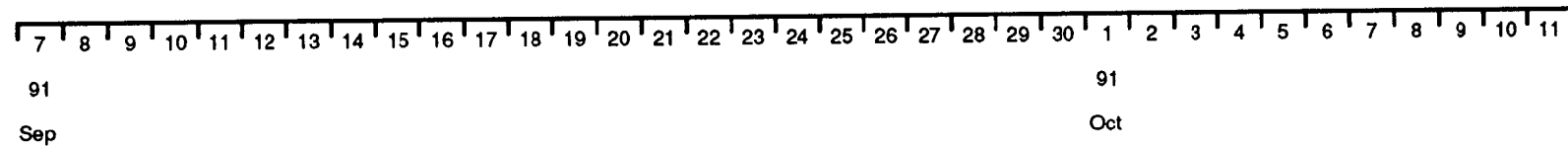
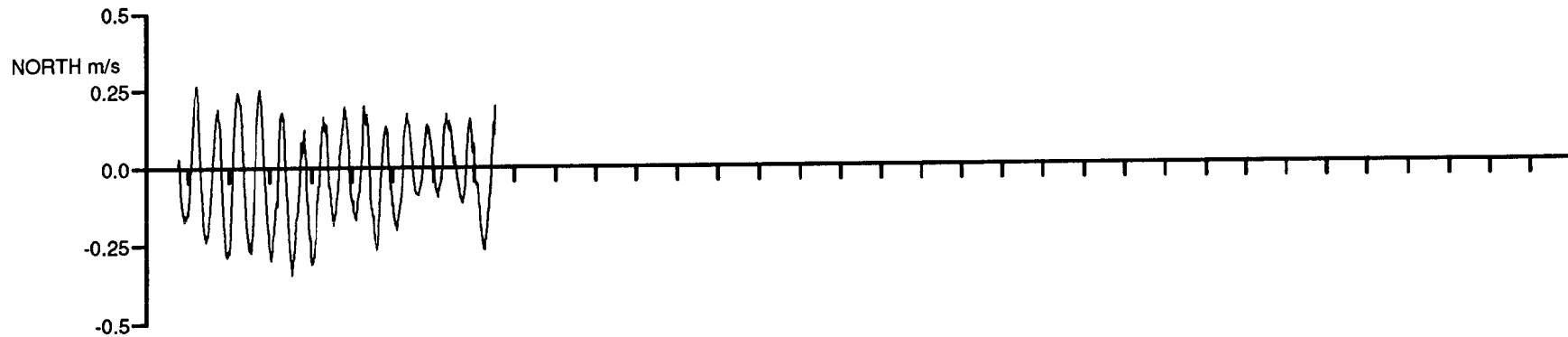
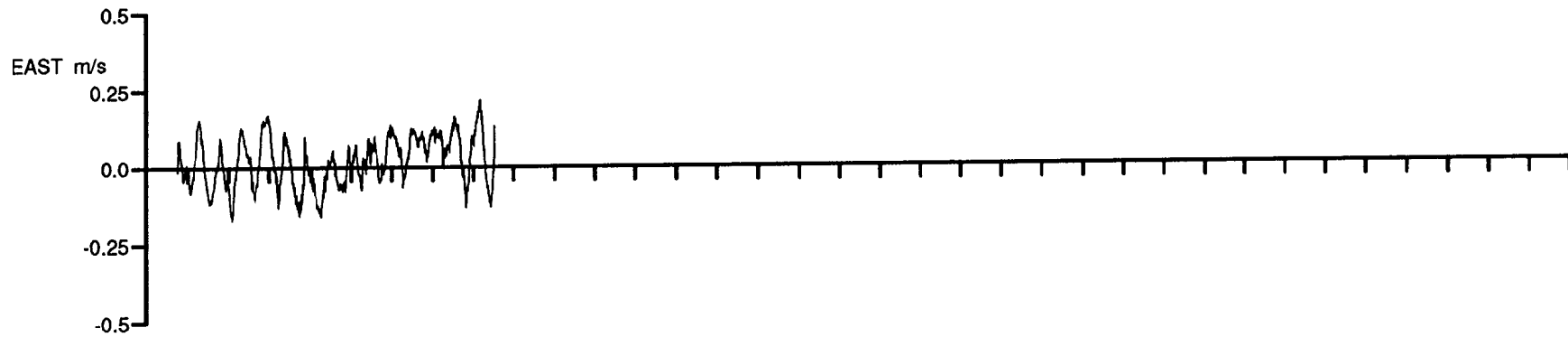
Rig No	:	00495
Meter No	:	0956
Recording interval	:	600.0 seconds
Meter depth	:	2.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	07-SEP-91 16:30:00
Meter stopped	:	15-SEP-91 12:20:00
Period switched on	:	7.8 days
Period of good data	:	7.7 days
Total number of scans	:	1115
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0956 Rig no. 00495 Depth of water(m) 118.0

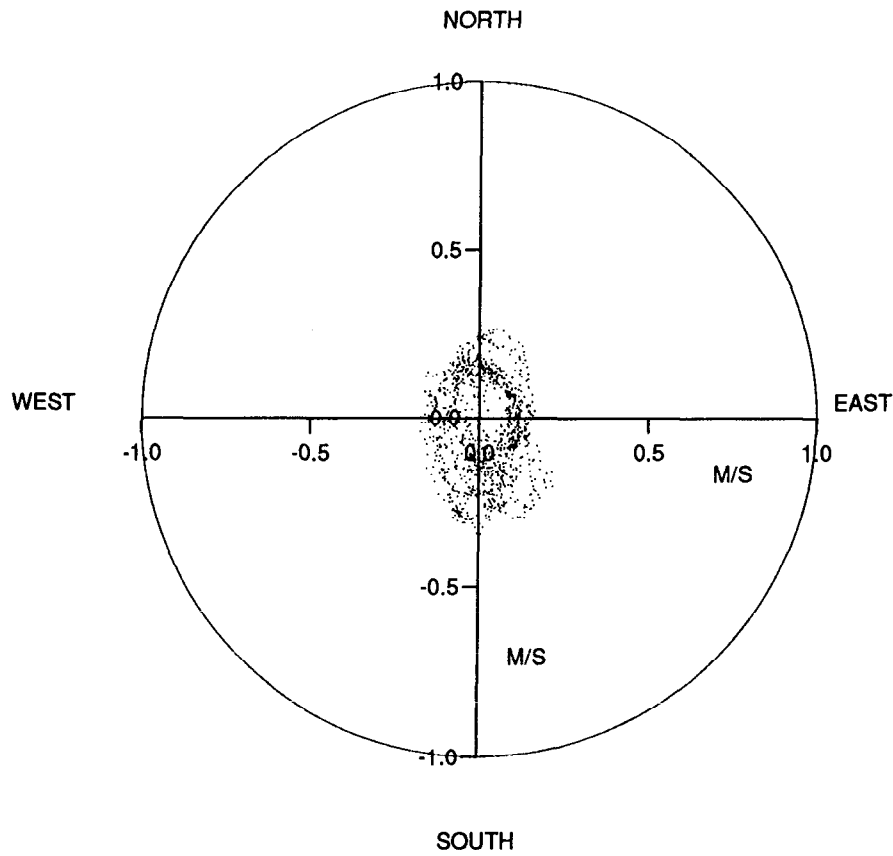
Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00

Position 59 39.97N 01 00.75E Meter Depth(m) 2.0



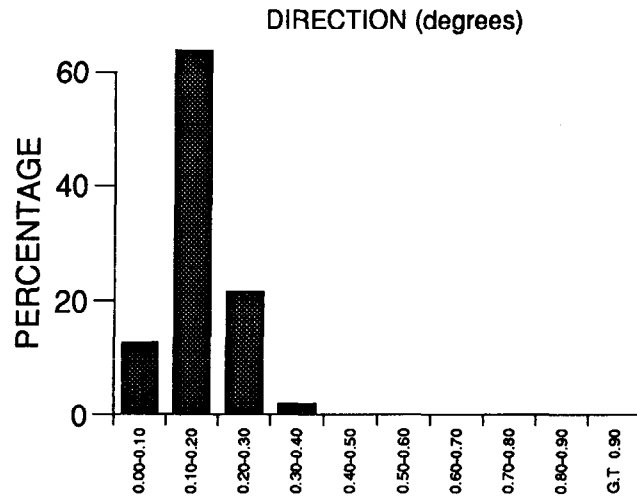
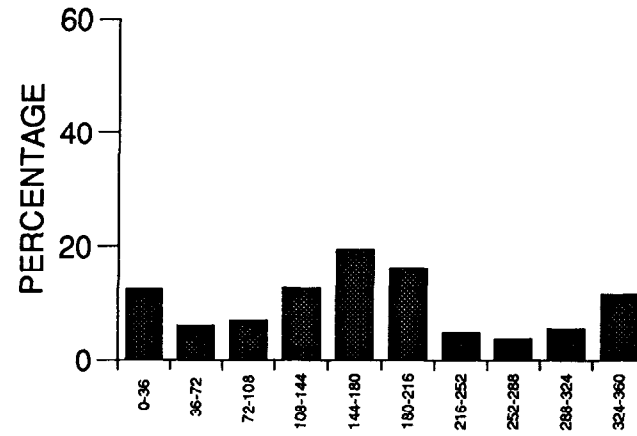
SCATTER PLOT

Meter no. 0956 Rig no. 00495 Depth of water(m) 118.0
 Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00
 Position 59 39.97N 01 00.75E Meter Depth(m) 2.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0956 Rig no. 00495 Depth of water(m) 118.0
 Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00
 Position 59 39.97N 01 00.75E Meter Depth(m) 2.0



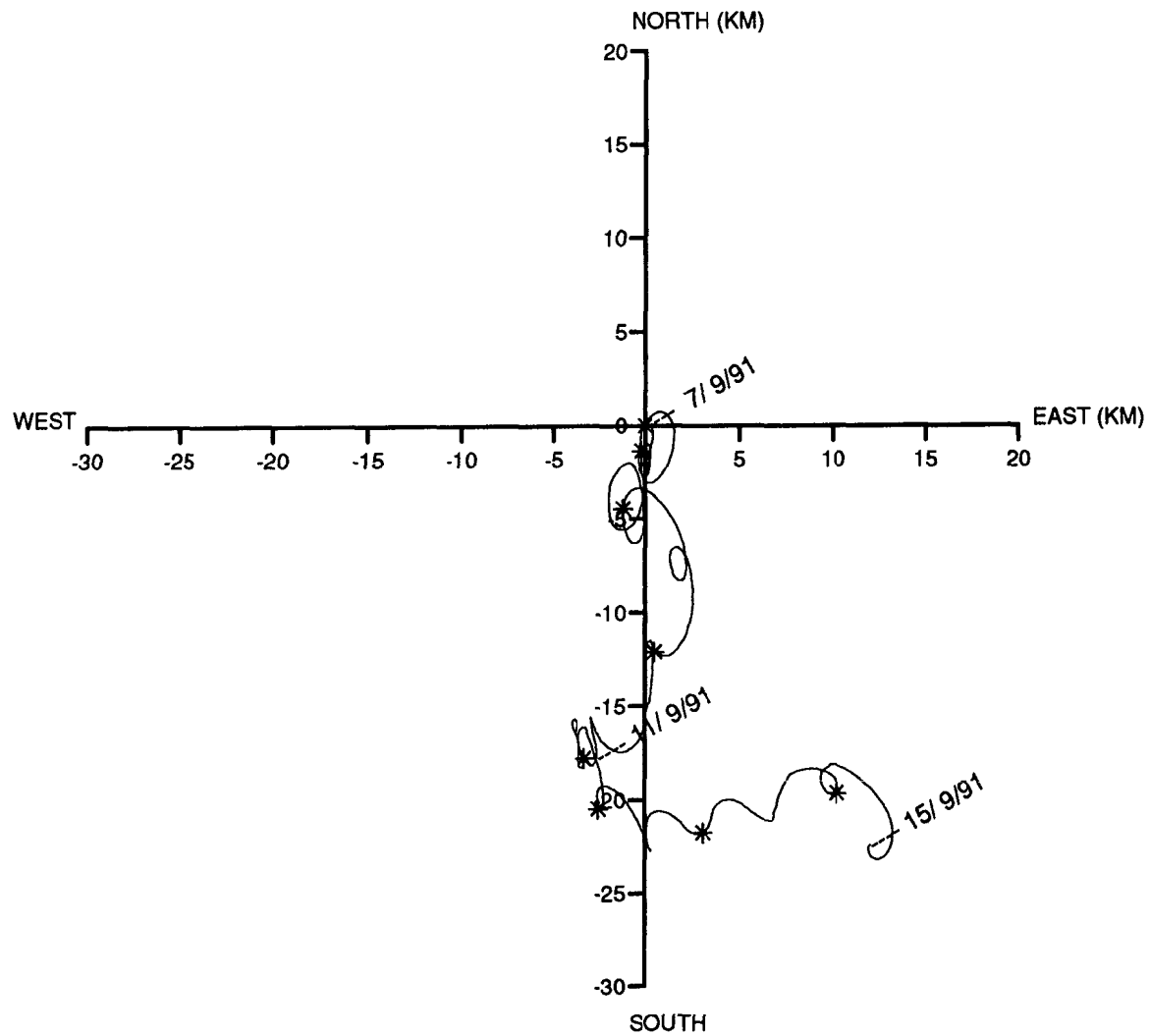
SPEED (m/s)

VECTOR PLOT

Meter no. 0956 Rig no. 00495 Depth of water(m) 118.0

Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00

Position 59 39.97N 01 00.75E Meter Depth(m) 2.0



Statistics for s40956t.00495s

	Mean	Variance	Standard deviation
Eastings	0.0180	0.65836739E-02	0.81139840E-01
Northings	-0.0335	0.21087505E-01	0.14521538E+00
Speed	0.1595	0.36692589E-02	0.60574409E-01
Vector mean speed	0.0381		
Vector Mean Direction	151.7		

Maximum ten values

Eastings					Northings				
0.218	0.216	0.213	0.201	0.199	0.266	0.263	0.260	0.260	0.255
0.195	0.195	0.183	0.179	0.179	0.253	0.252	0.251	0.248	0.247

Minimum ten values

Eastings					Northings				
-0.154	-0.155	-0.159	-0.159	-0.160	-0.302	-0.305	-0.310	-0.311	-0.313
-0.160	-0.162	-0.162	-0.169	-0.173	-0.315	-0.324	-0.325	-0.342	-0.345

Maximum speeds

0.345	0.342	0.326	0.325	0.325	0.318	0.316	0.315	0.314	0.314
0.314	0.314	0.312	0.310	0.309	0.309	0.305	0.304	0.304	0.304
0.303	0.303	0.302	0.299	0.298	0.298	0.297	0.297	0.297	0.296
0.296	0.296	0.295	0.294	0.294	0.294	0.292	0.292	0.292	0.292
0.291	0.288	0.288	0.288	0.287	0.287	0.286	0.285	0.284	0.284
0.284	0.283	0.283	0.283	0.283	0.282	0.282	0.282	0.282	0.281
0.281	0.280	0.280	0.277	0.276	0.275	0.274	0.274	0.273	0.273
0.273	0.273	0.272	0.272	0.272	0.271	0.271	0.270	0.270	0.269
0.269	0.268	0.268	0.268	0.268	0.267	0.267	0.267	0.266	0.266
0.266	0.266	0.264	0.264	0.263	0.262	0.262	0.262	0.262	0.261

Variance ellipse statistics

Maximum variance	0.2112E-01	Direction	-2.9
Minimum variance	0.6548E-02	Direction	87.1
Total variance	0.2767E-01	Ratio of variances	0.3100E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			6.9
Average direction. maxdir +PI/2 to maxdir -PI/2			171.5

Statistics for s40956t.00495sf

	Mean	Variance	Standard deviation
Eastings	-0.0327	0.92418003E-03	0.30400328E-01
Northings	-0.0461	0.20498128E-02	0.45274857E-01
Speed	0.0623	0.21715551E-02	0.46599947E-01
Vector mean speed	0.0565		
Vector Mean Direction	-144.6		

Maximum ten values

Eastings					Northings				
0.016	-0.002	-0.025	-0.044	-0.048	-0.002	-0.004	-0.022	-0.024	-0.059
-0.063	-0.063	0.001	0.001	0.001	-0.096	-0.116	0.001	0.001	0.001

Minimum ten values

Eastings					Northings				
0.016	-0.002	-0.025	-0.044	-0.048	-0.002	-0.004	-0.022	-0.024	-0.059
-0.063	-0.063	0.001	0.001	0.001	-0.096	-0.116	0.000	0.000	0.000

Maximum speeds

0.124 0.114 0.086 0.053 0.029 0.025 0.005

Variance ellipse statistics

Maximum variance	0.2498E-02	Direction	28.1
Minimum variance	0.4760E-03	Direction	118.1
Total variance	0.2974E-02	Ratio of variances	0.1906E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			0.0
Average direction. maxdir +PI/2 to maxdir -PI/2			187.3

Meter information details for 0958

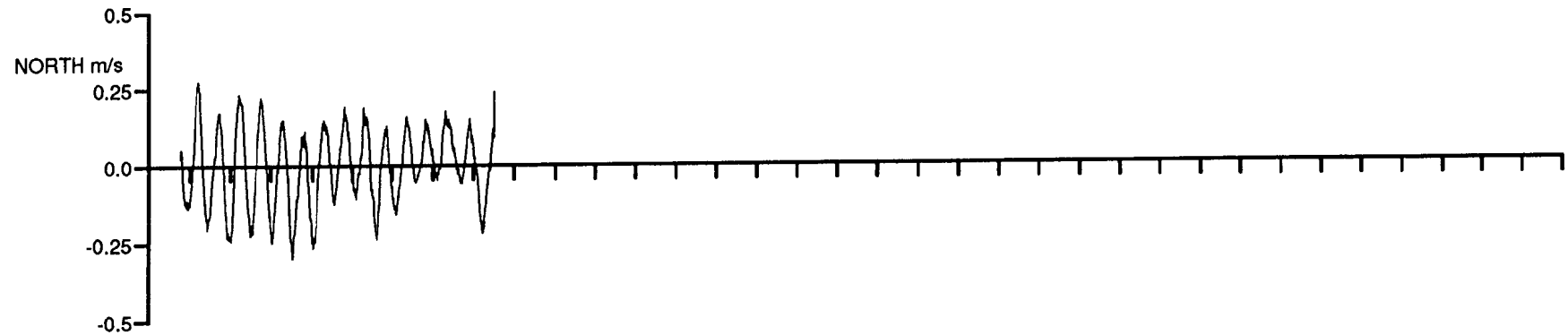
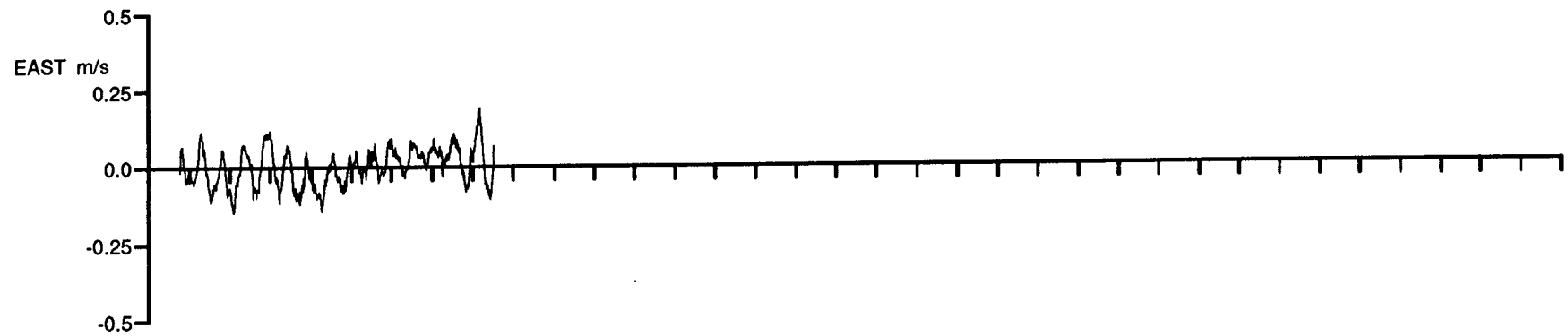
Rig No	:	00495
Meter No	:	0958
Recording interval	:	600.0 seconds
Meter depth	:	4.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	07-SEP-91 16:30:00
Meter stopped	:	15-SEP-91 13:20:00
Period switched on	:	7.9 days
Period of good data	:	7.7 days
Total number of scans	:	1115
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0958 Rig no. 00495 Depth of water(m) 118.0

Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00

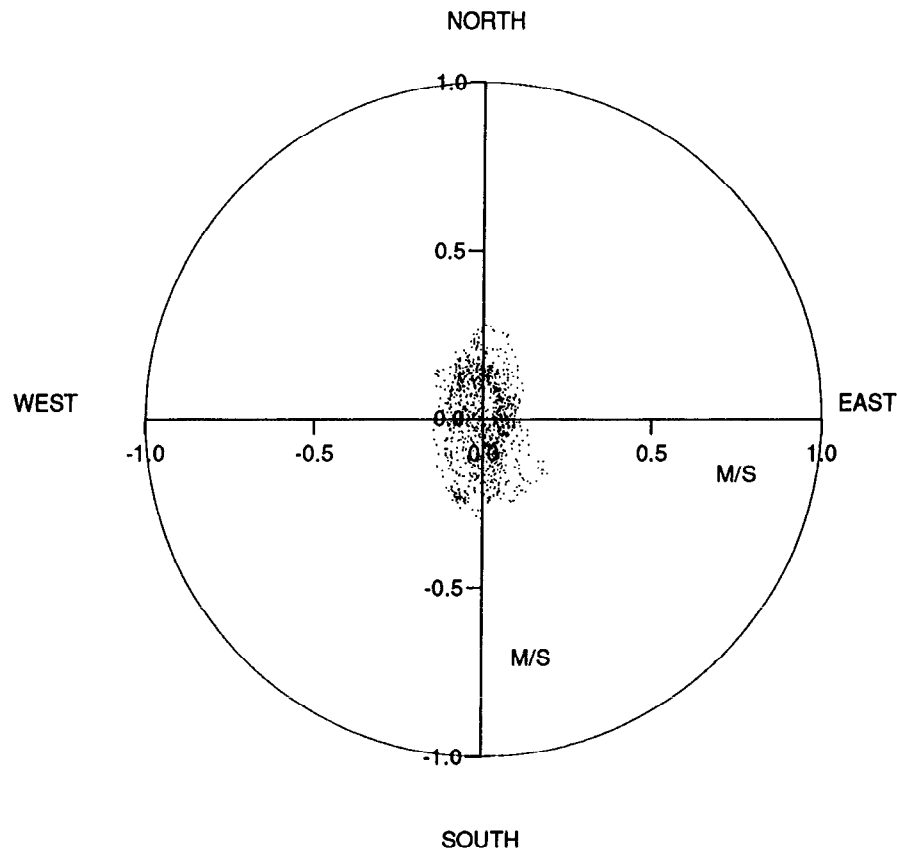
Position 59 39.97N 01 00.75E Meter Depth(m) 4.0



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
91 91
Sep Oct

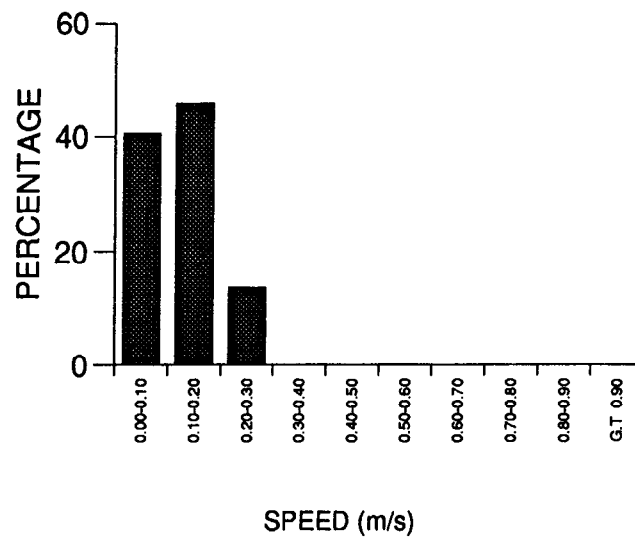
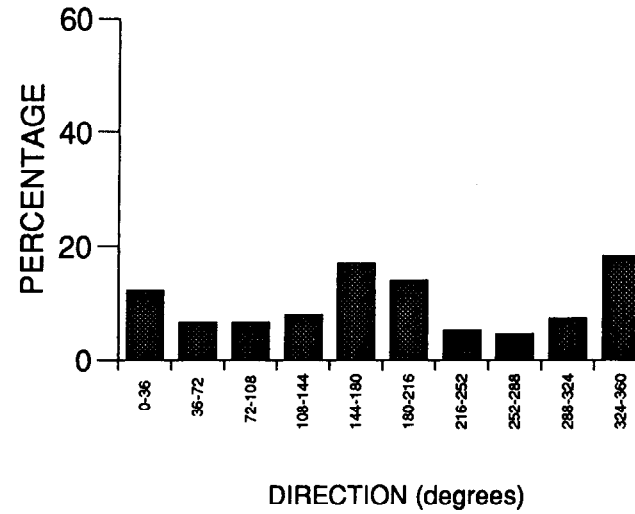
SCATTER PLOT

Meter no. 0958 Rig no. 00495 Depth of water(m) 118.0
 Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00
 Position 59 39.97N 01 00.75E Meter Depth(m) 4.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0958 Rig no. 00495 Depth of water(m) 118.0
 Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00
 Position 59 39.97N 01 00.75E Meter Depth(m) 4.0

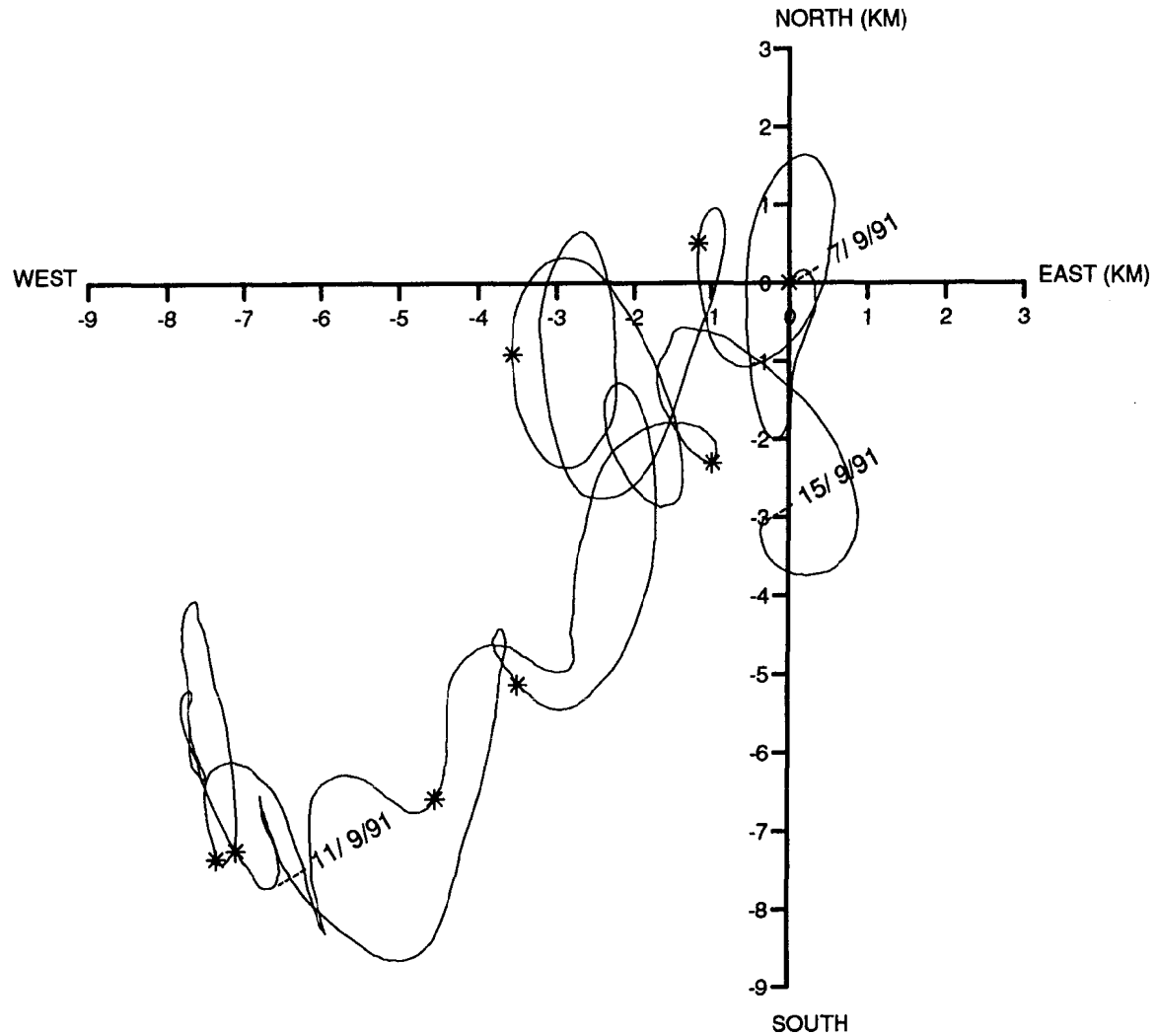


VECTOR PLOT

Meter no. 0958 Rig no. 00495 Depth of water(m) 118.0

Start/End 1991/09/07 AT 18:17:00 1991/09/15 AT 12:08:00

Position 59 39.97N 01 00.75E Meter Depth(m) 4.0



Statistics for s40958b.00495s

	Mean	Variance	Standard deviation
Eastings	-0.0005	0.36800355E-02	0.60663294E-01
Northings	-0.0045	0.15043961E-01	0.12265383E+00
Speed	0.1228	0.36627208E-02	0.60520414E-01
Vector mean speed	0.0045		
Vector Mean Direction	-173.8		

Maximum ten values

Eastings					Northings				
0.191	0.179	0.178	0.175	0.173	0.276	0.271	0.265	0.261	0.260
0.163	0.163	0.157	0.141	0.135	0.260	0.256	0.254	0.251	0.247

Minimum ten values

Eastings					Northings				
-0.135	-0.137	-0.137	-0.138	-0.139	-0.250	-0.250	-0.250	-0.252	-0.266
-0.140	-0.143	-0.145	-0.145	-0.147	-0.270	-0.272	-0.273	-0.291	-0.300

Maximum speeds

0.300	0.292	0.276	0.274	0.273	0.272	0.272	0.272	0.265	0.261
0.261	0.261	0.261	0.261	0.260	0.260	0.258	0.258	0.258	0.257
0.257	0.256	0.256	0.255	0.254	0.253	0.253	0.252	0.251	0.251
0.250	0.249	0.249	0.249	0.249	0.248	0.248	0.248	0.247	0.247
0.246	0.246	0.245	0.245	0.245	0.245	0.244	0.244	0.244	0.244
0.244	0.243	0.243	0.242	0.241	0.241	0.240	0.240	0.239	0.238
0.238	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.235	0.235
0.234	0.234	0.234	0.232	0.232	0.232	0.232	0.231	0.231	0.231
0.230	0.230	0.229	0.229	0.229	0.229	0.228	0.228	0.228	0.227
0.226	0.225	0.225	0.224	0.224	0.223	0.223	0.223	0.222	0.222

Variance ellipse statistics

Maximum variance	0.1507E-01	Direction	-3.0
Minimum variance	0.3649E-02	Direction	87.0
Total variance	0.1872E-01	Ratio of variances	0.2421E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			1.0
Average direction. maxdir +PI/2 to maxdir -PI/2			175.6

Statistics for s40958b.00495sf

	Mean	Variance	Standard deviation
Eastings	-0.0337	0.55907032E-03	0.23644667E-01
Northings	-0.0089	0.16726829E-02	0.40898446E-01
Speed	0.0499	0.73968200E-03	0.27197096E-01
Vector mean speed	0.0348		
Vector Mean Direction	-104.8		

Maximum ten values

Eastings					Northings				
0.003	-0.009	-0.026	-0.044	-0.046	0.033	0.029	0.014	0.007	-0.019
-0.056	-0.058	0.001	0.001	0.001	-0.053	-0.072	0.001	0.001	0.001

Minimum ten values

Eastings					Northings				
0.003	-0.009	-0.026	-0.044	-0.046	0.033	0.029	0.014	0.007	-0.019
-0.056	-0.058	0.001	0.001	0.001	-0.053	-0.072	0.000	0.000	0.000

Maximum speeds

0.086 0.079 0.060 0.046 0.042 0.030 0.008

Variance ellipse statistics

Maximum variance	0.1940E-02	Direction	23.8
Minimum variance	0.2914E-03	Direction	113.8
Total variance	0.2232E-02	Ratio of variances	0.1502E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-34.4
Average direction. maxdir +PI/2 to maxdir -PI/2			221.0

Rig information details for 00520

Position Latitude	:	59 39.12N
Position Longitude	:	01 00.75E
Water depth	:	118.0 m
Deployed on cruise	:	C85
Recovered on cruise	:	C85
Site name identification	:	AH2
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	28-OCT-91 18:00:00
Rig recovered on	:	01-NOV-91 11:00:00
Period of deployment	:	3.7 days
Comments	:	Deployment at 16:56 not 18:00

Meter information details for 0716

Rig No	:	00520
Meter No	:	0716
Recording interval	:	1.0 seconds
Meter depth	:	2.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	28-OCT-91 17:55:00
Time of last valid scan	:	29-OCT-91 13:01:13
Period of good data	:	19 hours short record
Total number of scans	:	11474
Timing error	:	None
Comments	:	Meter sampling every second over a 10 minute period each hour Time series plot represents first two hours of data collected Spikes in data flagged after calibration Short record due to full memory

Individual burst statistics for meter no. s40716t on rig no. 00520

Burst No	Velocity (metres/second)				Tilt (degrees)			
	Mean		Standard deviation		Mean		Standard deviation	
	East	North	East	North	East	North	East	North
1	-0.168	0.061	0.279	0.259	5.354	5.402	2.290	2.378
2	-0.140	0.145	0.283	0.306	5.778	5.613	2.398	2.314
3	-0.147	0.184	0.308	0.303	6.029	6.022	2.589	2.513
4	-0.010	0.251	0.285	0.336	6.218	6.280	2.279	2.559
5	0.049	0.203	0.268	0.307	5.645	5.693	2.360	2.329
6	0.117	0.147	0.246	0.291	5.750	5.314	2.434	2.249
7	0.131	0.113	0.229	0.275	5.628	5.140	2.468	2.274
8	0.145	0.024	0.232	0.255	5.430	5.133	2.277	2.246
9	0.096	-0.054	0.257	0.239	5.109	5.373	2.214	2.370
10	0.070	-0.089	0.252	0.250	5.182	4.875	2.197	2.333
11	-0.059	-0.141	0.234	0.254	5.570	5.298	2.356	2.520
12	-0.096	-0.098	0.252	0.238	5.434	5.239	2.224	2.176
13	-0.136	-0.090	0.262	0.246	5.681	5.586	2.405	2.384
14	-0.114	0.059	0.277	0.296	5.537	5.514	2.359	2.345
15	-0.084	0.136	0.291	0.326	5.923	5.857	2.662	2.525
16	-0.006	0.200	0.295	0.341	6.121	6.277	2.459	2.536
17	-0.039	0.200	0.297	0.334	6.180	6.236	2.513	2.631
18	0.033	0.194	0.292	0.309	5.775	6.036	2.334	2.784
19	0.037	0.167	0.262	0.315	5.656	5.780	2.371	2.565

Meter information details for 0715

Rig No	:	00520
Meter No	:	0715
Recording interval	:	1.0 seconds
Meter depth	:	4.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	28-OCT-91 17:55:00
Time of last valid scan	:	29-OCT-91 10:01:18
Period of good data	:	16 hours short record
Total number of scans	:	9679
Timing error	:	None
Comments	:	Meter sampling every second over a 10 minute period each hour Time series plot represents first two hours of data collected Spikes in data flagged after calibration Short record due to full memory

Individual burst statistics for meter no. s40715b on rig no. 00520

Burst No	Velocity (metres/second)				Tilt (degrees)			
	Mean		Standard deviation		Mean		Standard deviation	
	East	North	East	North	East	North	East	North
1	-0.087	0.095	0.249	0.231	5.905	15.625	2.311	0.093
2	-0.121	0.085	0.264	0.233	6.163	15.625	2.425	0.093
3	-0.097	0.157	0.277	0.248	5.952	15.625	2.257	0.093
4	-0.008	0.174	0.226	0.232	5.772	15.625	2.243	0.093
5	0.089	0.138	0.213	0.213	5.409	15.625	2.219	0.093
6	0.084	0.063	0.191	0.205	5.582	15.625	2.214	0.093
7	0.074	0.023	0.195	0.194	5.476	15.625	2.263	0.093
8	0.081	-0.061	0.184	0.186	5.316	15.625	2.222	0.093
9	0.032	-0.089	0.185	0.183	5.337	15.625	2.180	0.093
10	-0.026	-0.105	0.543	0.509	8.859	25.780	17.077	47.760
11	-0.072	-0.065	0.196	0.178	5.500	15.622	2.102	0.090
12	-0.097	-0.019	0.201	0.195	5.720	15.622	2.086	0.090
13	-0.084	0.031	0.225	0.212	5.667	15.622	2.288	0.090
14	-0.058	0.081	0.226	0.231	5.846	15.621	2.357	0.091
15	-0.022	0.185	0.241	0.242	5.902	15.623	2.519	0.091
16	0.037	0.121	0.260	0.250	5.886	15.622	2.419	0.090
17	-0.054	0.141	0.265	0.235	5.673	15.623	2.337	0.030

Rig information details for 00521

Position Latitude	:	59 39.57N
Position Longitude	:	01 00.85E
Water depth	:	118.0 m
Deployed on cruise	:	C85
Recovered on cruise	:	C85
Site name identification	:	AH3
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	02-NOV-91 13:34:00
Rig recovered on	:	07-NOV-91 09:48:00
Period of deployment	:	4.8 days
Comments	:	Launch and recovery successful

Meter information details for 1112

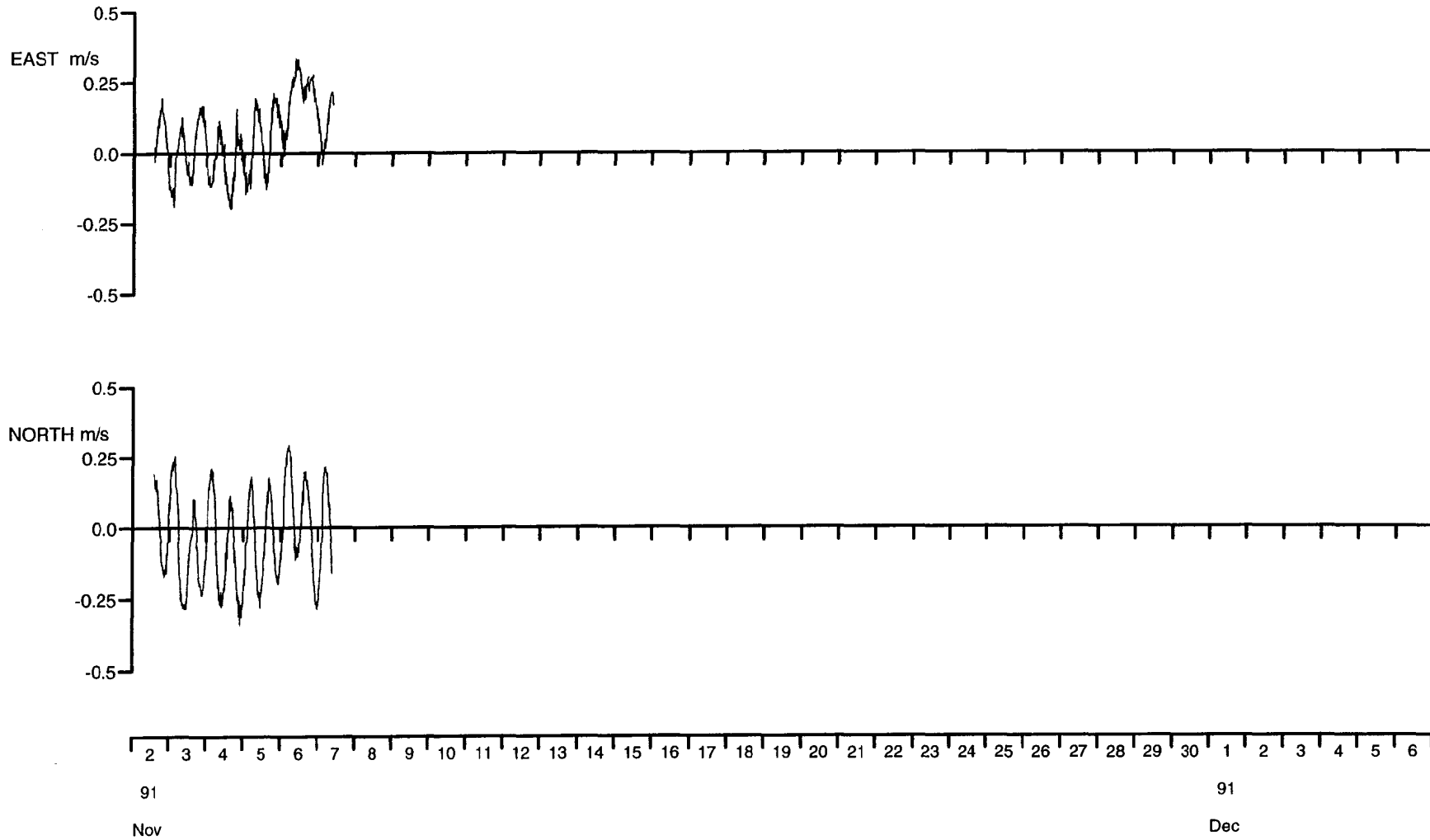
Rig No	:	00521
Meter No	:	1112
Recording interval	:	600.0 seconds
Meter depth	:	2.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	02-NOV-91 13:00:00
Meter stopped	:	10-NOV-91 14:30:00
Period switched on	:	8.1 days
Period of good data	:	4.8 days
Total number of scans	:	697
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1112 Fig no. 00521 Depth of water(m) 118.0

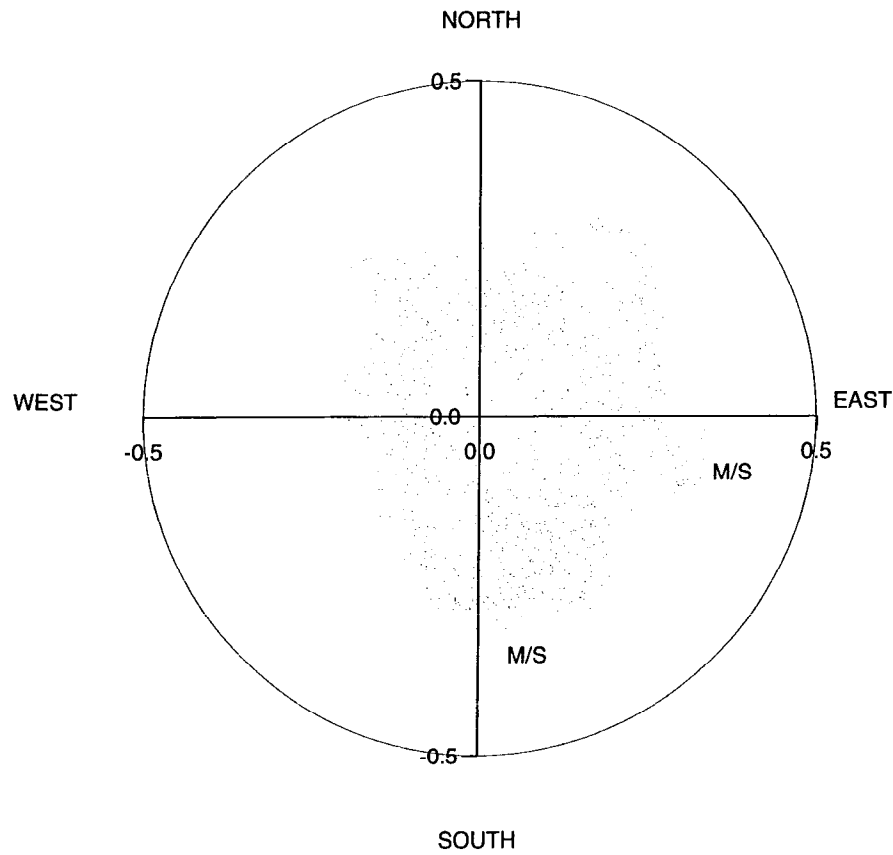
Start/End 1991/11/02 AT 13:34:00 1991/11/07 AT 09:48:00

Position 59 39.57N 01 00.85E Meter Depth(m) 2.0



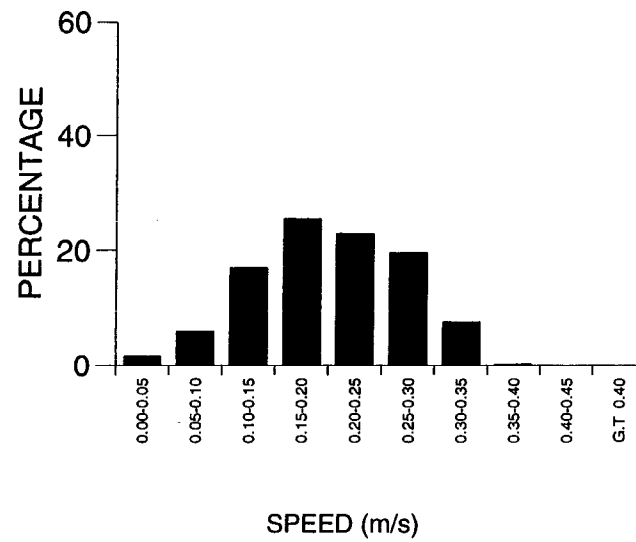
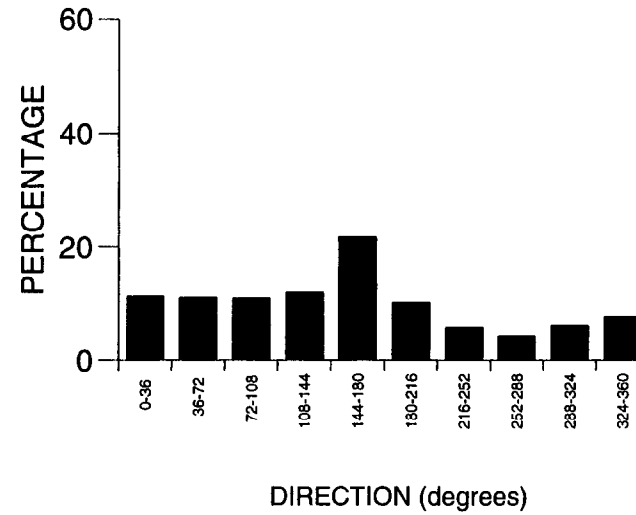
SCATTER PLOT

Meter no. 1112 Rig no. 00521 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 13:34:00 1991/11/07 AT 09:48:00
 Position 59 39.57N 01 00.85E Meter Depth(m) 2.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1112 Rig no. 00521 Depth of water(m) 118.0
 Start/End 1991/11/02 AT 13:34:00 1991/11/07 AT 09:48:00
 Position 59 39.57N 01 00.85E Meter Depth(m) 2.0

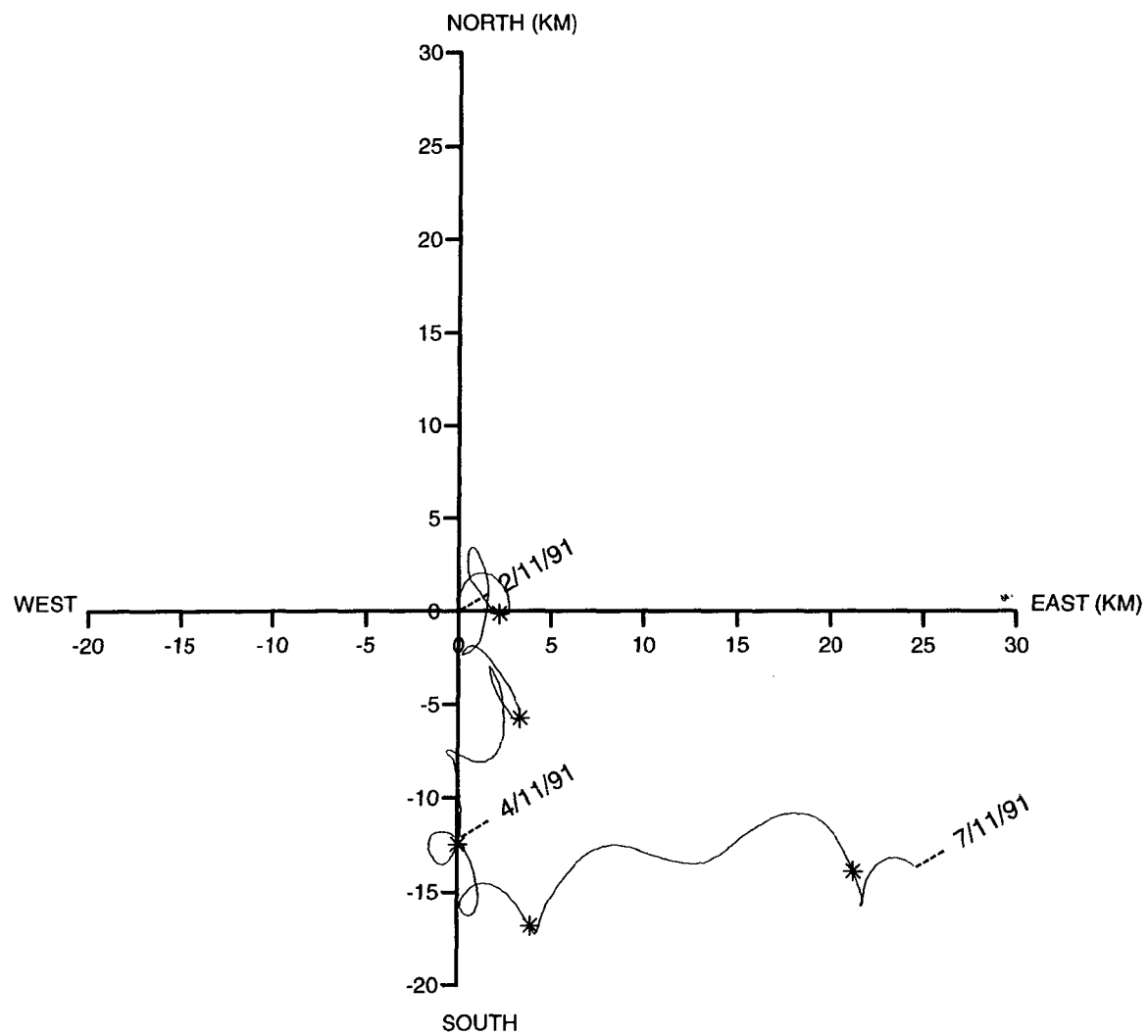


VECTOR PLOT

Meter no. 1112 Rig no. 00521 Depth of water(m) 118.0

Start/End 1991/11/02 AT 13:34:00 1991/11/07 AT 09:48:00

Position 59 39.57N 01 00.85E Meter Depth(m) 2.0



Statistics for s41112t.00521s

	Mean	Variance	Standard deviation
Eastings	0.0588	0.15040512E-01	0.12263976E+00
Northings	-0.0326	0.25779214E-01	0.16055906E+00
Speed	0.2012	0.48028869E-02	0.69302864E-01
Vector mean speed	0.0672		
Vector Mean Direction	119.0		

Maximum ten values

Eastings					Northings				
0.334	0.332	0.329	0.328	0.319	0.294	0.285	0.283	0.281	0.278
0.309	0.305	0.303	0.303	0.300	0.277	0.275	0.274	0.273	0.273

Minimum ten values

Eastings					Northings				
-0.169	-0.172	-0.173	-0.176	-0.178	-0.284	-0.285	-0.285	-0.285	-0.288
-0.185	-0.192	-0.194	-0.197	-0.200	-0.295	-0.301	-0.314	-0.314	-0.343

Maximum speeds

0.353	0.351	0.348	0.346	0.345	0.343	0.342	0.341	0.338	0.337
0.336	0.335	0.334	0.333	0.331	0.331	0.330	0.329	0.328	0.327
0.326	0.326	0.323	0.322	0.320	0.320	0.317	0.317	0.316	0.314
0.313	0.313	0.312	0.312	0.312	0.312	0.311	0.311	0.309	0.309
0.309	0.309	0.308	0.308	0.308	0.307	0.307	0.306	0.305	0.303
0.302	0.302	0.302	0.301	0.300	0.299	0.298	0.297	0.294	0.294
0.293	0.293	0.293	0.293	0.292	0.292	0.292	0.291	0.291	0.290
0.290	0.289	0.288	0.287	0.287	0.287	0.287	0.286	0.285	0.285
0.285	0.285	0.285	0.284	0.284	0.283	0.283	0.283	0.282	0.281
0.281	0.281	0.280	0.280	0.280	0.279	0.279	0.279	0.279	0.279

Variance ellipse statistics

Maximum variance	0.2578E-01	Direction	-1.0
Minimum variance	0.1504E-01	Direction	89.0
Total variance	0.4082E-01	Ratio of variances	0.5832E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			14.6
Average direction. maxdir +PI/2 to maxdir -PI/2			165.9

Meter information details for 1117

Rig No	:	00521
Meter No	:	1117
Recording interval	:	600.0 seconds
Meter depth	:	4.0 m
Position of meter on rig	:	B
Meter type	:	S4
Comments	:	Data Lost

Rig information details for 00496

Position Latitude	:	59 40.03N
Position Longitude	:	01 00.34E
Water depth	:	120.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	AI
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	06-SEP-91 13:10:00
Rig recovered on	:	07-NOV-91 15:00:00
Period of deployment	:	62.1 days
Comments	:	Launch and recovery successful

Meter information details for 0002

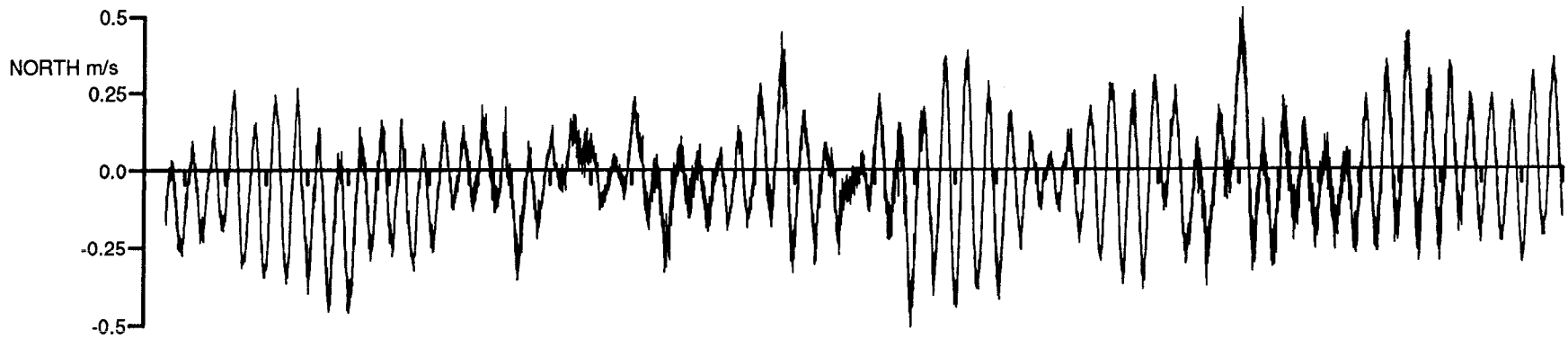
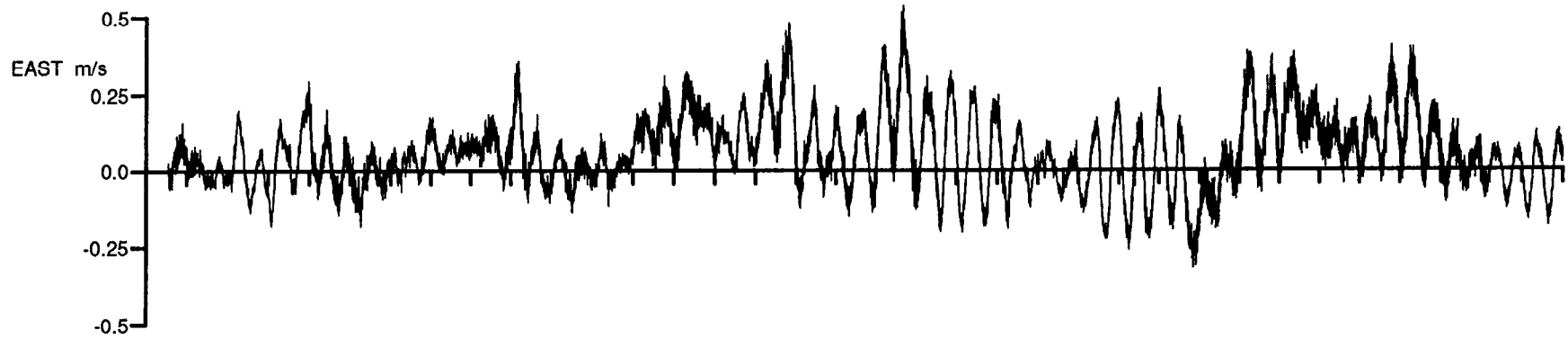
Rig No	:	00496
Meter No	:	0002
Recording interval	:	180.0 seconds
Meter depth	:	2.0 m
Meter type	:	VA
Meter started	:	06-SEP-91 12:57:01
Meter stopped	:	07-NOV-91 15:26:56
Period switched on	:	62.1 days
Period of good data	:	62.1 days
Total number of scans	:	29797
Timing error	:	5 seconds fast
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0002 Rig no. 00496 Depth of water(m) 120.0

Start/End 1991/09/06 AT 13:10:00 1991/11/07 AT 15:00:00

Position 59 40.03N 01 00.34E Meter Depth(m) 2.0



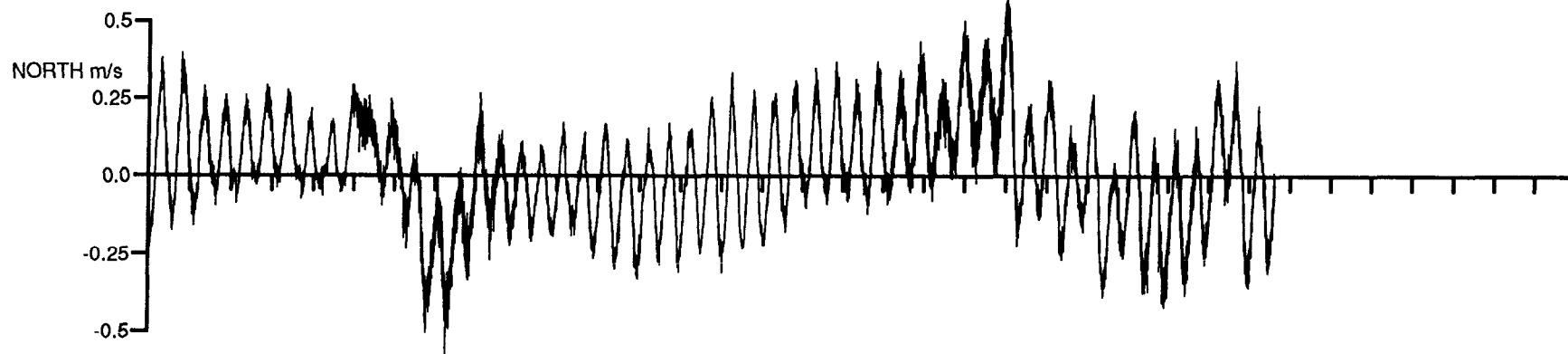
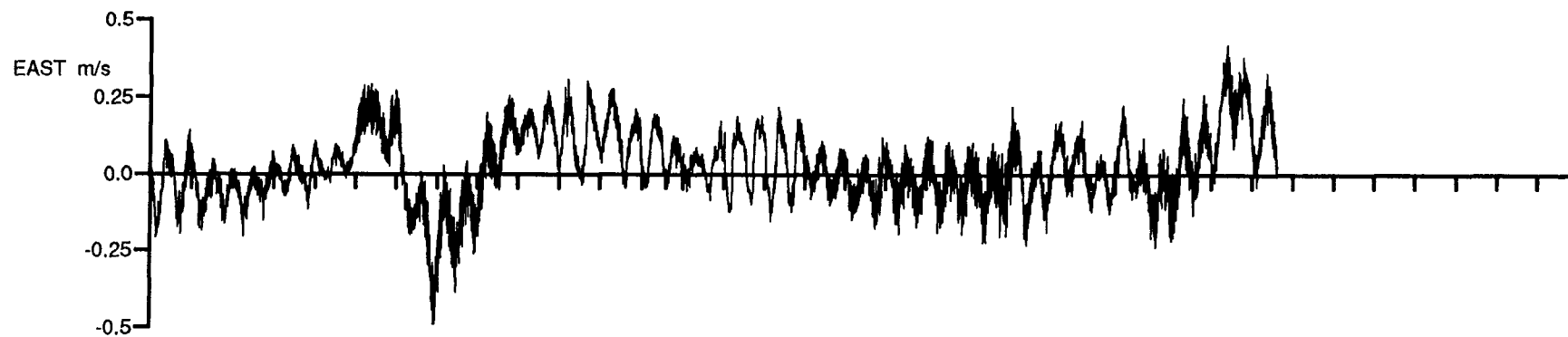
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10
91 91
Sep Oct

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0002 Rig no. 00496 Depth of water(m) 120.0

Start/End 1991/09/06 AT 13:10:00 1991/11/07 AT 15:00:00

Position 59 40.03N 01 00.34E Meter Depth(m) 2.0



11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14

91

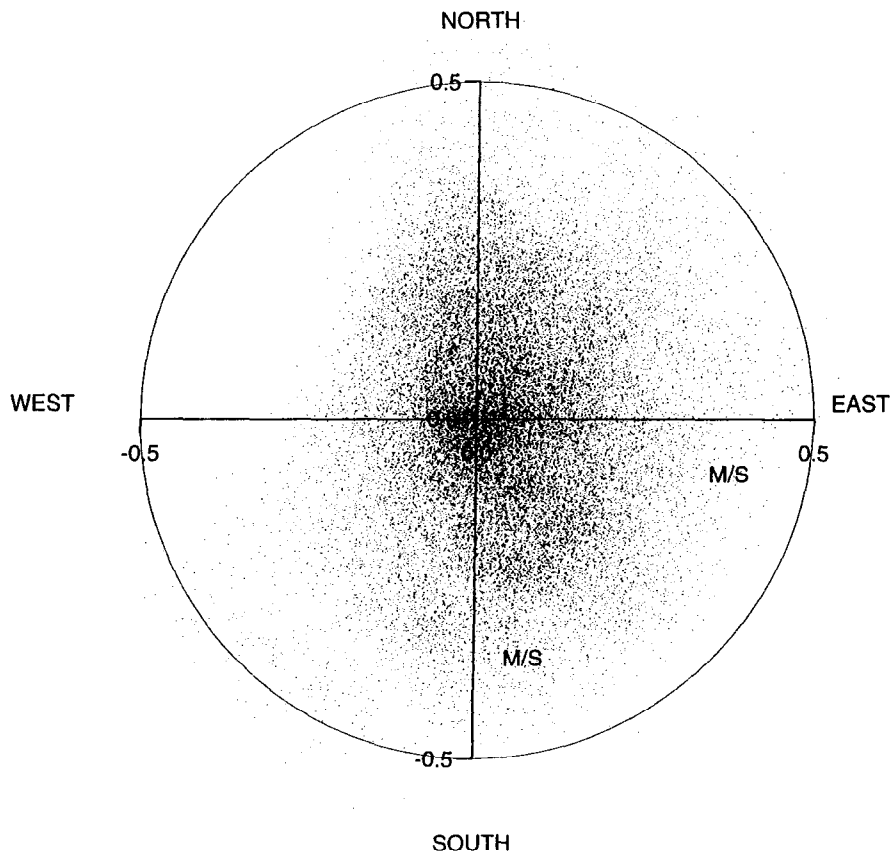
91

Oct

Nov

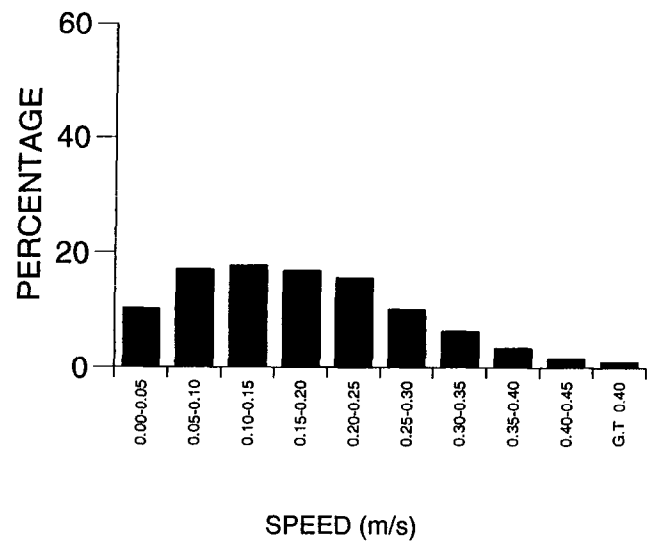
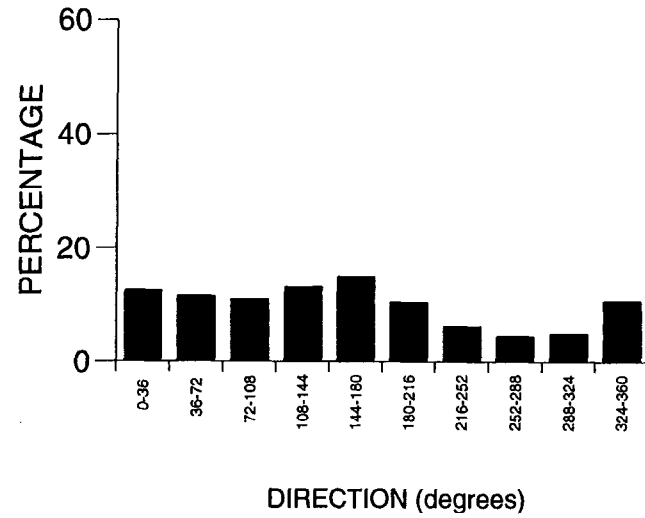
SCATTER PLOT

Meter no. 0002 Rig no. 00496 Depth of water(m) 120.0
Start/End 1991/09/06 AT 13:10:00 1991/11/07 AT 15:00:00
Position 59 40.03N 01 00.34E Meter Depth(m) 2.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0002 Rig no. 00496 Depth of water(m) 120.0
Start/End 1991/09/06 AT 13:10:00 1991/11/07 AT 15:00:00
Position 59 40.03N 01 00.34E Meter Depth(m) 2.0

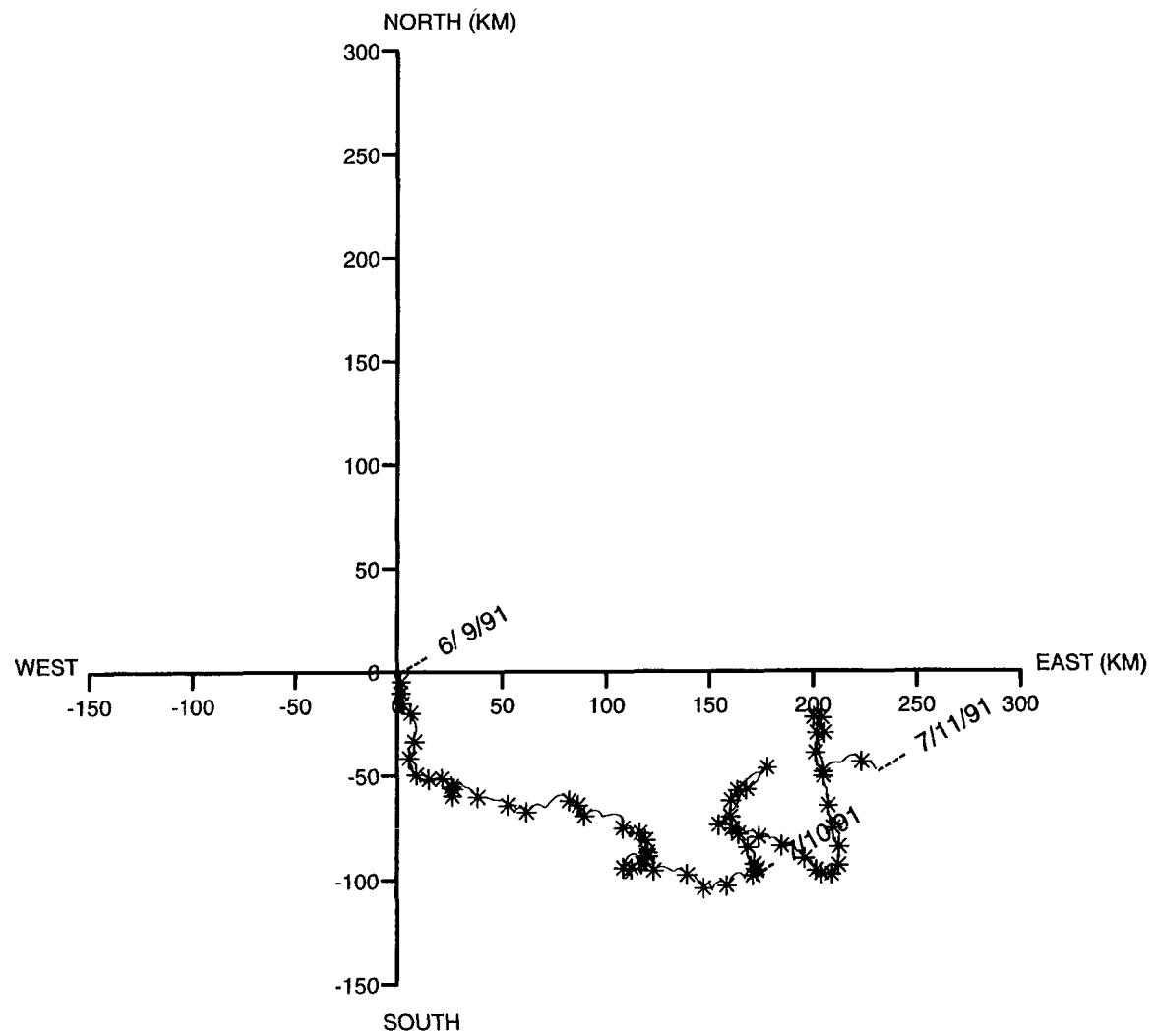


VECTOR PLOT

Meter no. 0002 Rig no. 00496 Depth of water(m) 120.0

Start/End 1991/09/06 AT 13:10:00 1991/11/07 AT 15:00:00

Position 59 40.03N 01 00.34E Meter Depth(m) 2.0



Statistics for va0002.00496s

	Mean	Variance	Standard deviation
Eastings	0.0430	0.13553799E-01	0.11642078E+00
Northings	-0.0089	0.26053494E-01	0.16141094E+00
Speed	0.1757	0.10643666E-01	0.10316814E+00
Vector mean speed	0.0439		
Vector Mean Direction	101.7		

Maximum ten values

Eastings					Northings				
0.535	0.518	0.507	0.491	0.486	0.588	0.579	0.562	0.560	0.555
0.481	0.479	0.475	0.474	0.471	0.555	0.548	0.548	0.547	0.547

Minimum ten values

Eastings					Northings				
-0.432	-0.433	-0.443	-0.448	-0.457	-0.478	-0.482	-0.483	-0.484	-0.490
-0.464	-0.474	-0.476	-0.490	-0.490	-0.493	-0.507	-0.507	-0.558	-0.574

Maximum speeds

0.600	0.592	0.587	0.581	0.579	0.577	0.567	0.565	0.564	0.563
0.558	0.556	0.556	0.553	0.552	0.552	0.550	0.549	0.548	0.548
0.547	0.546	0.546	0.546	0.546	0.544	0.544	0.544	0.541	0.541
0.540	0.540	0.539	0.539	0.538	0.538	0.535	0.534	0.534	0.534
0.534	0.533	0.533	0.529	0.528	0.527	0.527	0.527	0.525	0.525
0.524	0.524	0.523	0.522	0.521	0.520	0.519	0.519	0.518	0.517
0.517	0.516	0.516	0.515	0.515	0.515	0.514	0.514	0.513	0.513
0.513	0.513	0.513	0.512	0.511	0.511	0.510	0.510	0.510	0.508
0.507	0.507	0.507	0.507	0.506	0.506	0.505	0.504	0.503	0.503
0.503	0.503	0.502	0.502	0.502	0.502	0.502	0.501	0.501	0.501

Variance ellipse statistics

Maximum variance	0.2609E-01	Direction	3.1
Minimum variance	0.1352E-01	Direction	93.1
Total variance	0.3961E-01	Ratio of variances	0.5181E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			13.4
Average direction. maxdir +PI/2 to maxdir -PI/2			164.7

Statistics for va0002.00496sf

	Mean	Variance	Standard deviation
Eastings	0.0412	0.92064915E-02	0.95950469E-01
Northings	-0.0067	0.13568273E-01	0.11648293E+00
Speed	0.1349	0.62959674E-02	0.79347134E-01
Vector mean speed	0.0418		
Vector Mean Direction	99.2		

Maximum ten values

Eastings					Northings				
0.361	0.360	0.335	0.316	0.315	0.405	0.405	0.360	0.341	0.336
0.312	0.293	0.284	0.278	0.273	0.321	0.318	0.299	0.296	0.295

Minimum ten values

Eastings					Northings				
-0.192	-0.198	-0.204	-0.219	-0.234	-0.269	-0.276	-0.276	-0.302	-0.303
-0.235	-0.241	-0.273	-0.305	-0.318	-0.305	-0.306	-0.308	-0.312	-0.337

Maximum speeds

0.432	0.406	0.406	0.405	0.394	0.389	0.387	0.386	0.374	0.370
0.365	0.363	0.356	0.342	0.341	0.338	0.336	0.335	0.334	0.330
0.325	0.322	0.318	0.315	0.312	0.309	0.307	0.307	0.305	0.301
0.299	0.298	0.295	0.295	0.294	0.292	0.290	0.289	0.289	0.287
0.284	0.282	0.279	0.278	0.278	0.278	0.277	0.276	0.274	0.272
0.272	0.271	0.270	0.270	0.269	0.268	0.268	0.267	0.266	0.266
0.261	0.261	0.261	0.259	0.258	0.257	0.256	0.256	0.255	0.254
0.253	0.253	0.251	0.251	0.250	0.249	0.248	0.248	0.248	0.246
0.245	0.244	0.243	0.243	0.242	0.242	0.242	0.241	0.241	0.241
0.240	0.239	0.237	0.237	0.232	0.230	0.230	0.230	0.229	0.228

Variance ellipse statistics

Maximum variance	0.1369E-01	Direction	9.3
Minimum variance	0.9086E-02	Direction	99.3
Total variance	0.2277E-01	Ratio of variances	0.6637E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			14.7
Average direction. maxdir +PI/2 to maxdir -PI/2			156.0

Rig information details for 00522

Position Latitude	:	59 40.29N
Position Longitude	:	01 00.76E
Water depth	:	120.0 m
Deployed on cruise	:	C85
Recovered on cruise	:	C85
Site name identification	:	AJ
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	28-OCT-91 09:40:00
Rig recovered on	:	08-NOV-91 13:20:00
Period of deployment	:	11.2 days
Comments	:	Launch and recovery successful

Meter information details for 0001

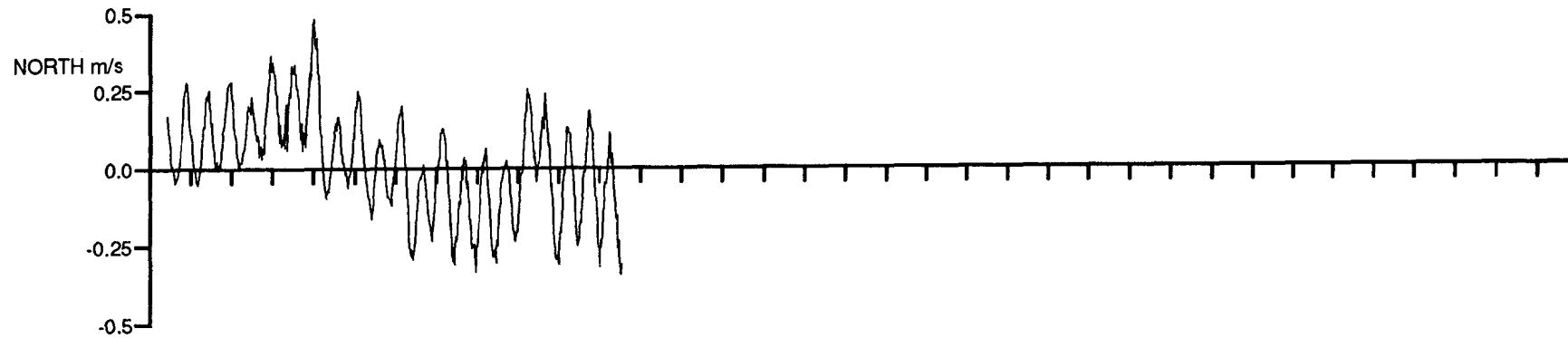
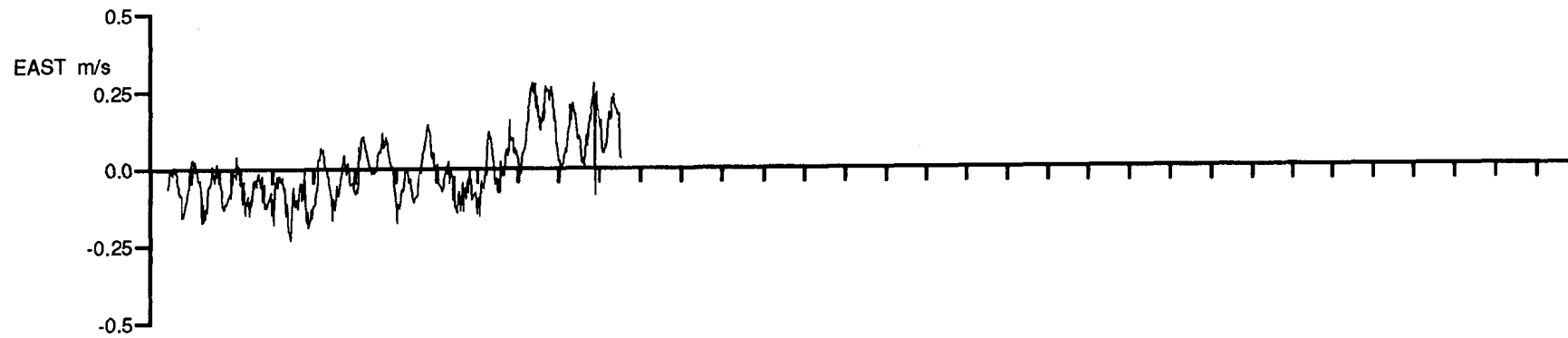
Rig No	:	00522
Meter No	:	0001
Recording interval	:	1800.0 seconds
Meter depth	:	1.0 m
Meter type	:	VA
Meter started	:	28-OCT-91 09:33:59
Meter stopped	:	08-NOV-91 13:34:01
Period switched on	:	11.2 days
Period of good data	:	11.1 days
Total number of scans	:	535
Timing error	:	2 seconds slow
Comments	:	Data sampled every 1 minute Logger failure resulted in data only available for a 5 minute average every 30 minutes Data recovered via satallite/meter link

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00522 Depth of water(m) 120.0

Start/End 1991/10/28 AT 09:40:00 1991/11/08 AT 13:20:00

Position 59 40.29N 01 00.76E Meter Depth(m) 1.0



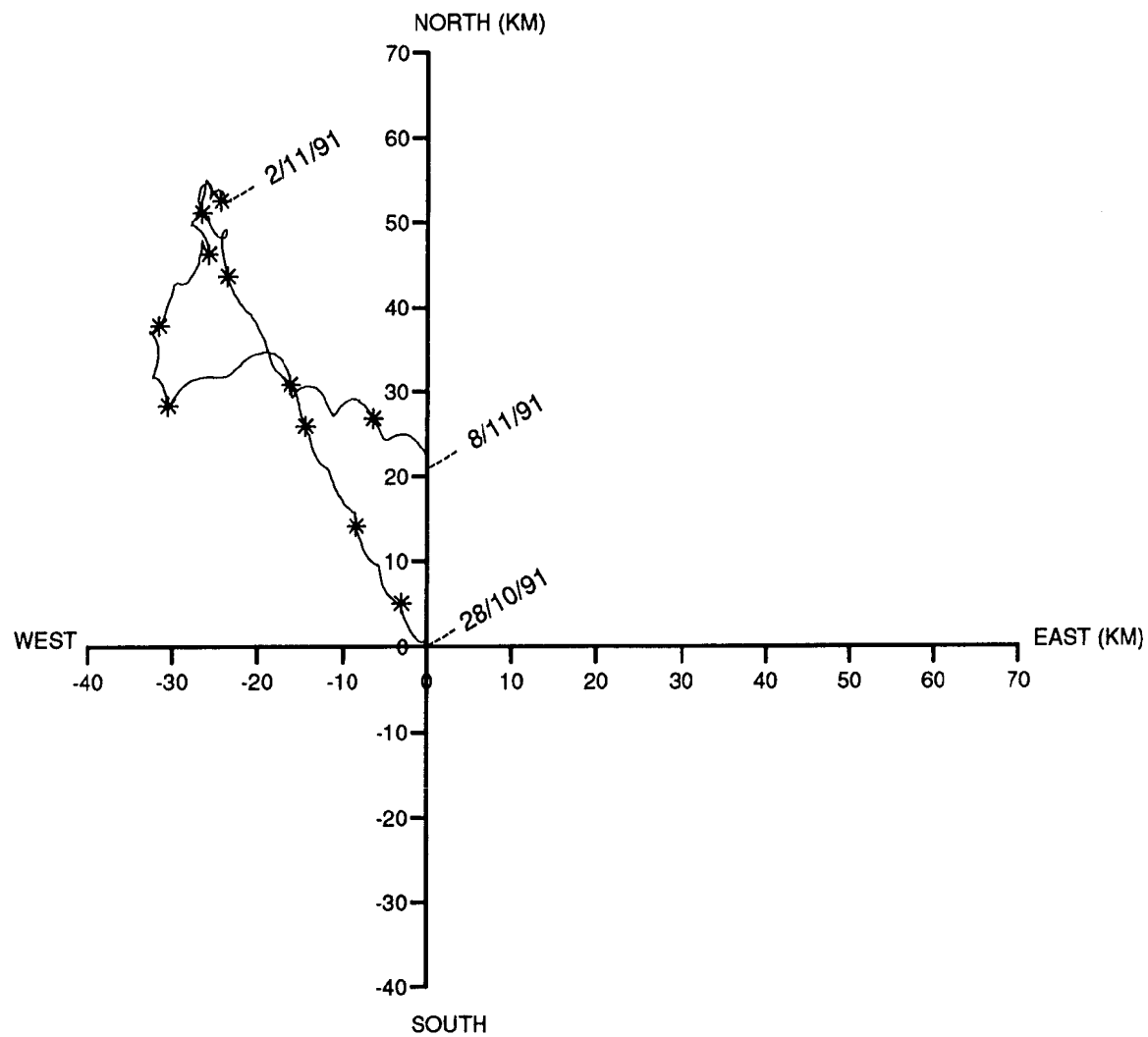
28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1
91 91 91
Oct Nov Dec

VECTOR PLOT

Meter no. 0001 Rig no. 00522 Depth of water(m) 120.0

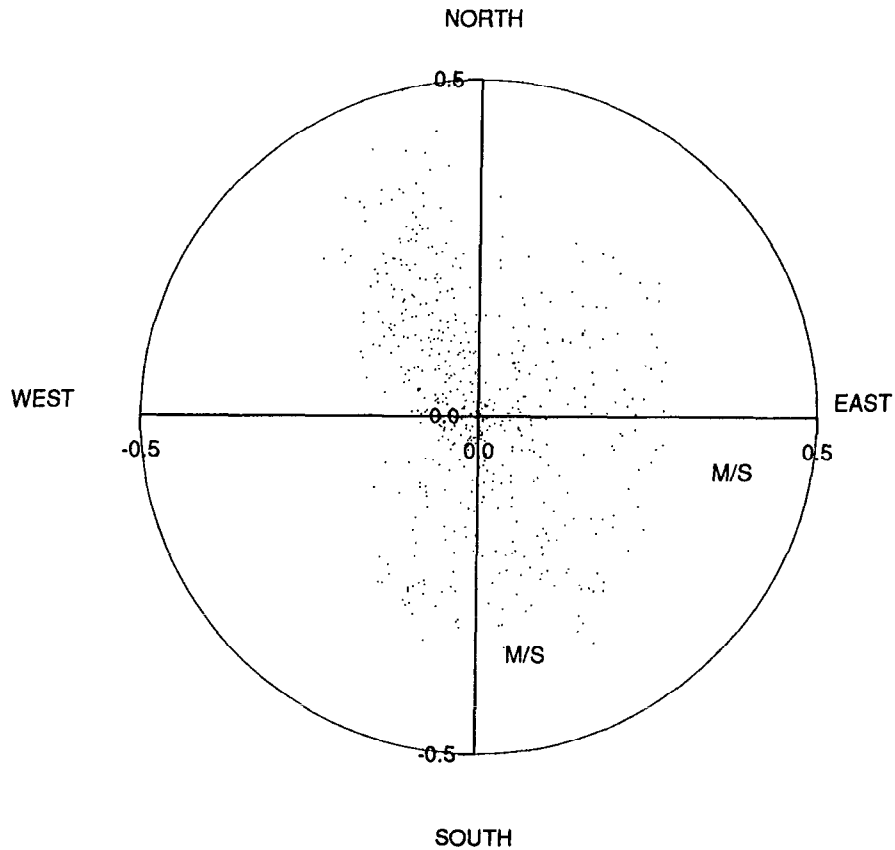
Start/End 1991/10/28 AT 09:40:00 1991/11/08 AT 13:20:00

Position 59 40.29N 01 00.76E Meter Depth(m) 1.0



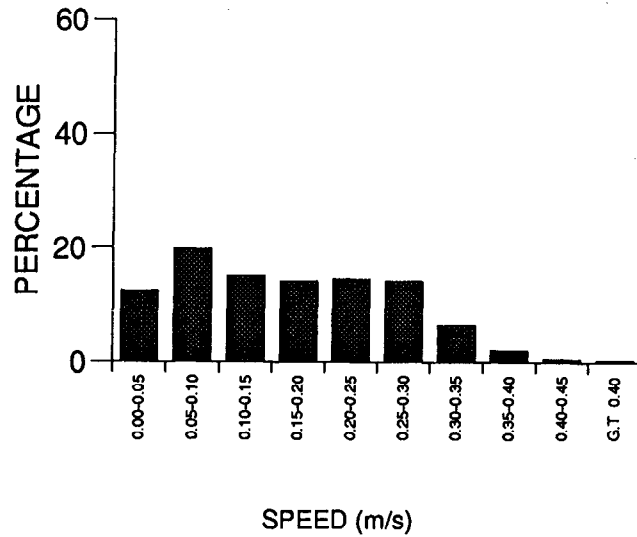
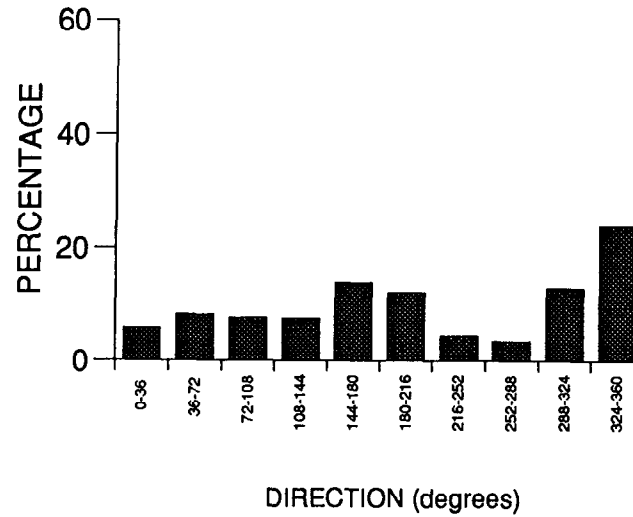
SCATTER PLOT

Meter no. 0001 Rig no. 00522 Depth of water(m) 120.0
 Start/End 1991/10/28 AT 09:40:00 1991/11/08 AT 13:20:00
 Position 59 40.29N 01 00.76E Meter Depth(m) 1.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0001 Rig no. 00522 Depth of water(m) 120.0
 Start/End 1991/10/28 AT 09:40:00 1991/11/08 AT 13:20:00
 Position 59 40.29N 01 00.76E Meter Depth(m) 1.0



Statistics for va0001.00522s

	Mean	Variance	Standard deviation
Eastings	0.0001	0.11200134E-01	0.10583068E+00
Northings	0.0221	0.25972117E-01	0.16115868E+00
Speed	0.1666	0.98609487E-02	0.99302314E-01
Vector mean speed	0.0221		
Vector Mean Direction	0.1		

Maximum ten values

Eastings					Northings				
0.276	0.275	0.274	0.271	0.265	0.483	0.483	0.422	0.394	0.393
0.265	0.263	0.263	0.257	0.255	0.390	0.370	0.365	0.343	0.335

Minimum ten values

Eastings					Northings				
-0.173	-0.174	-0.175	-0.177	-0.181	-0.301	-0.304	-0.306	-0.309	-0.309
-0.193	-0.201	-0.201	-0.205	-0.233	-0.312	-0.318	-0.332	-0.336	-0.343

Maximum speeds

0.498	0.498	0.428	0.426	0.409	0.399	0.380	0.378	0.374	0.373
0.364	0.363	0.357	0.357	0.353	0.352	0.350	0.346	0.346	0.345
0.344	0.341	0.341	0.335	0.331	0.330	0.327	0.325	0.322	0.319
0.318	0.317	0.315	0.313	0.313	0.311	0.311	0.311	0.310	0.309
0.309	0.308	0.306	0.306	0.304	0.304	0.303	0.302	0.302	0.301
0.300	0.300	0.299	0.298	0.298	0.297	0.296	0.295	0.295	0.294
0.294	0.293	0.292	0.292	0.291	0.291	0.290	0.289	0.288	0.288
0.288	0.288	0.287	0.285	0.284	0.283	0.283	0.282	0.280	0.280
0.280	0.280	0.277	0.277	0.277	0.276	0.276	0.276	0.275	0.275
0.275	0.273	0.272	0.271	0.270	0.268	0.268	0.267	0.266	0.266

Variance ellipse statistics

Maximum variance	0.2756E-01	Direction	-17.3
Minimum variance	0.9613E-02	Direction	72.7
Total variance	0.3717E-01	Ratio of variances	0.3488E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			3.0
Average direction. maxdir +PI/2 to maxdir -PI/2			177.7

Rig information details for 00497

Position Latitude	:	59 40.01N
Position Longitude	:	00 59.84E
Water depth	:	119.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	AK
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	06-SEP-91 13:50:00
Rig recovered on	:	07-NOV-91 11:37:00
Period of deployment	:	61.9 days
Comments	:	Launch and recovery successful

Meter information details for 0394

Rig No	:	00497
Meter No	:	0394
Recording interval	:	600.0 seconds
Meter height from bottom	:	2.0 m
Position of meter on rig	:	
Meter type	:	RD
Meter started	:	06-SEP-91 13:40:00
Time of last valid scan	:	07-NOV-91 11:20:00
Period of good data	:	61.9 days short record
Total number of scans	:	8911
Timing error	:	None
Comments	:	Good record obtained

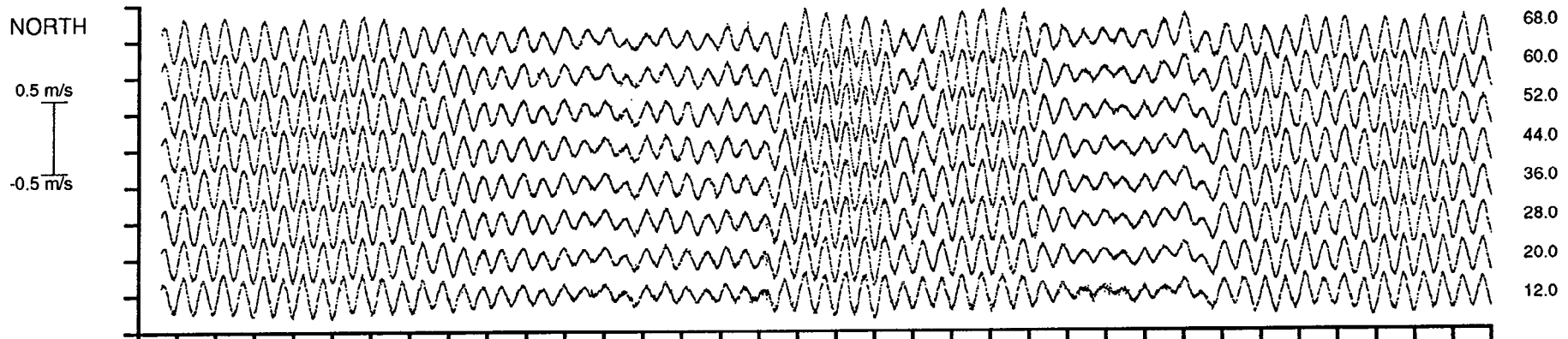
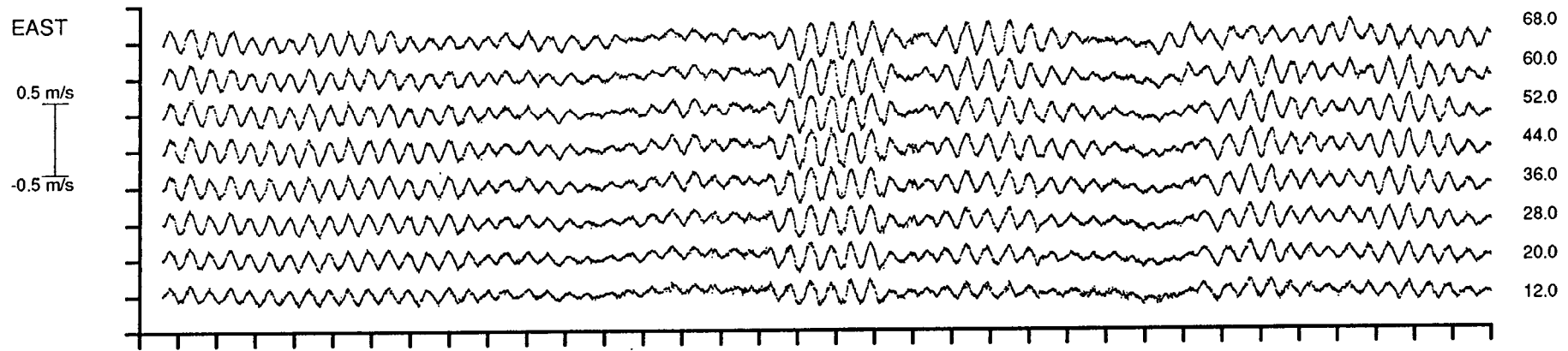
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Bin Ht (m)



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10

91
Sep

91
Oct

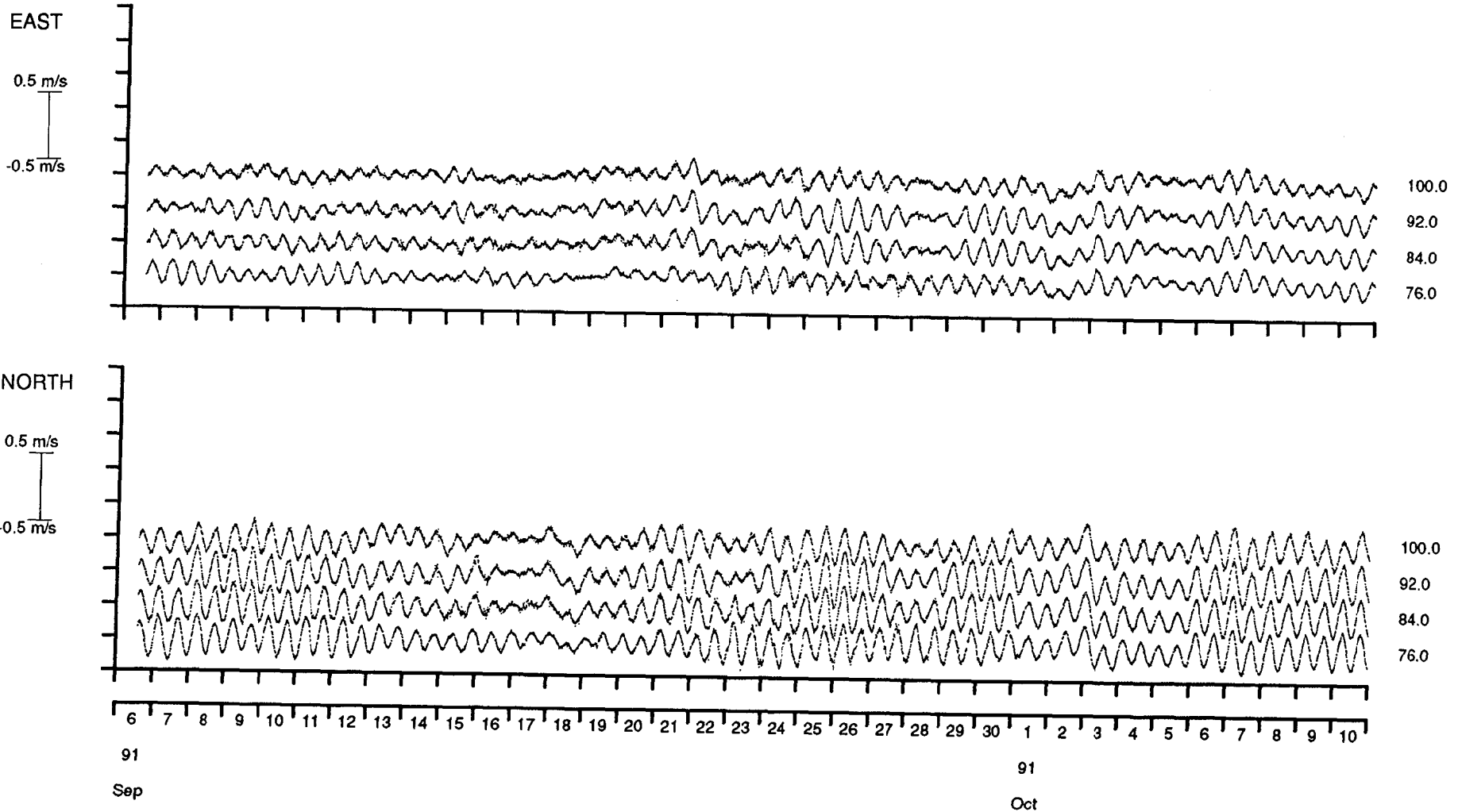
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Bin Ht (m)



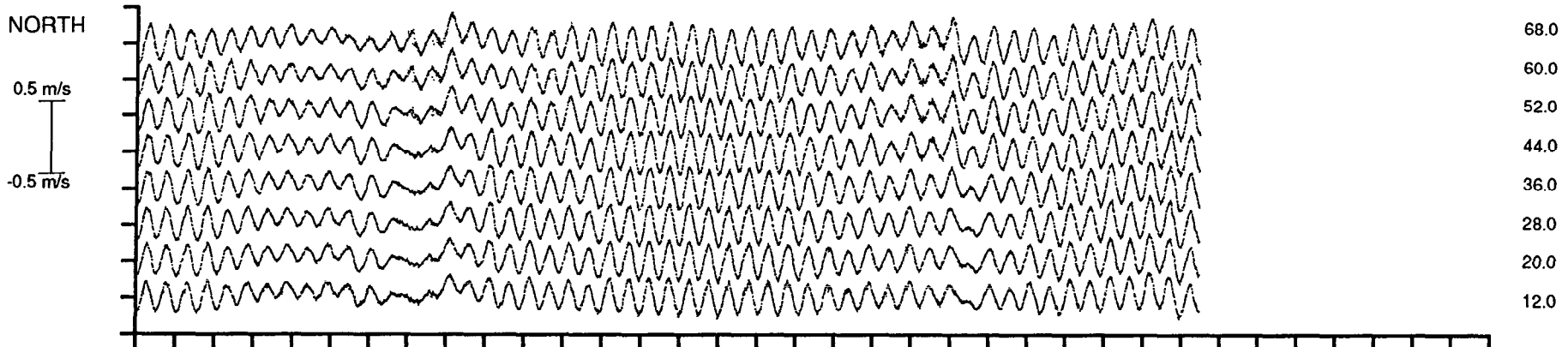
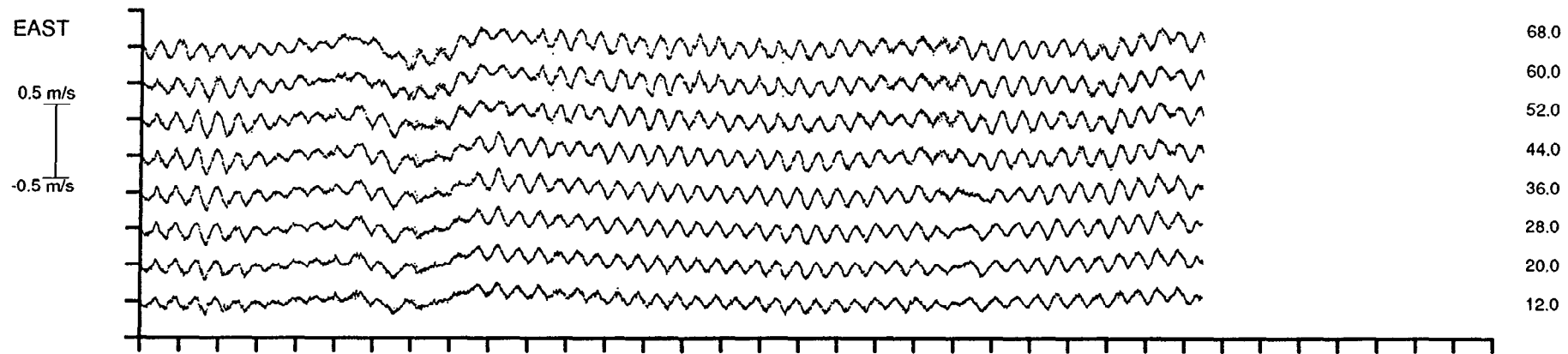
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Bin Ht (m)



11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14
91 91
Oct Nov

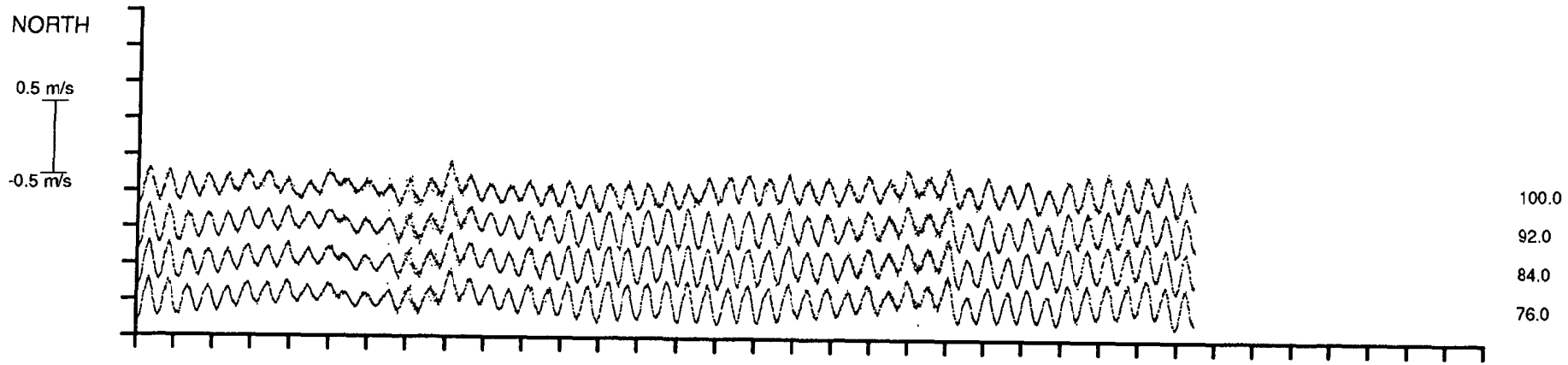
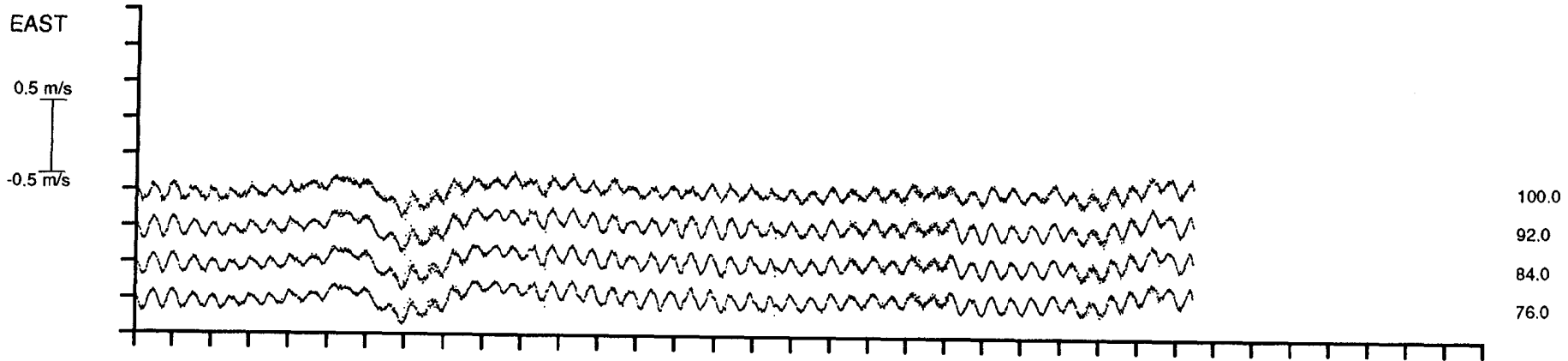
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Bin Ht (m)



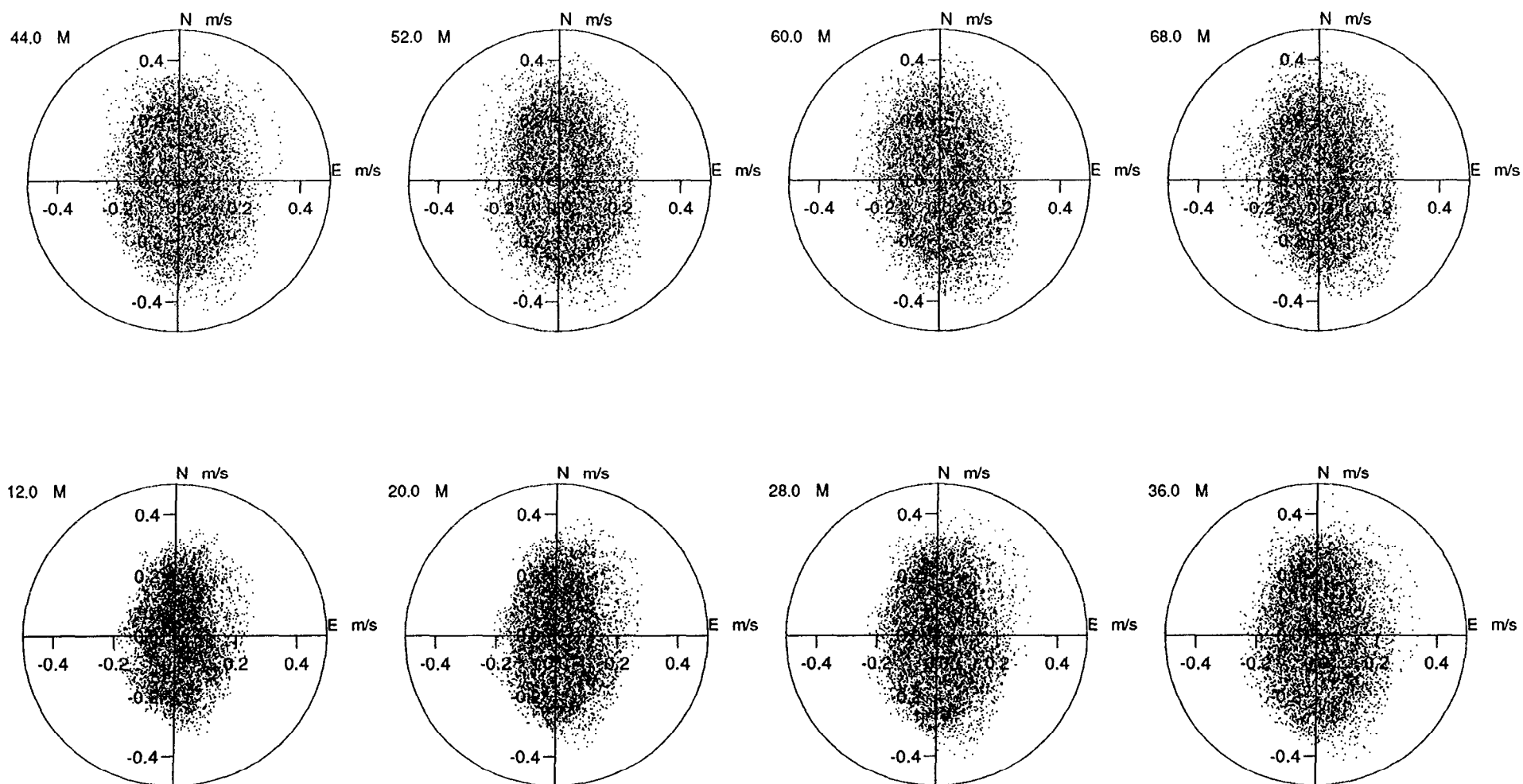
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14
91 91
Oct Nov

SCATTER PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

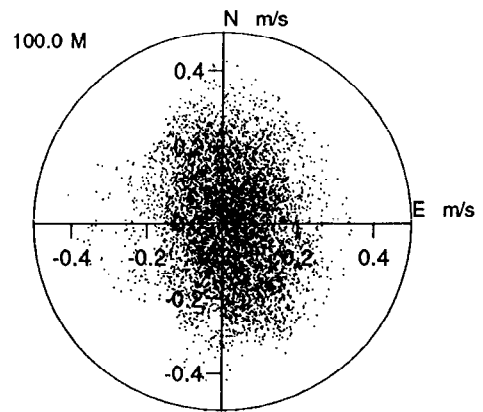
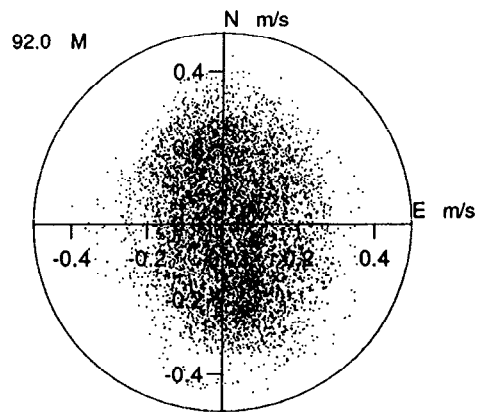
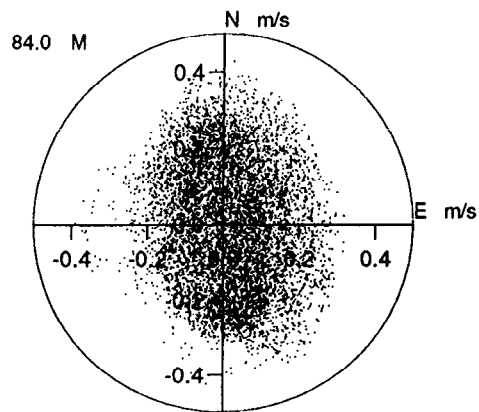
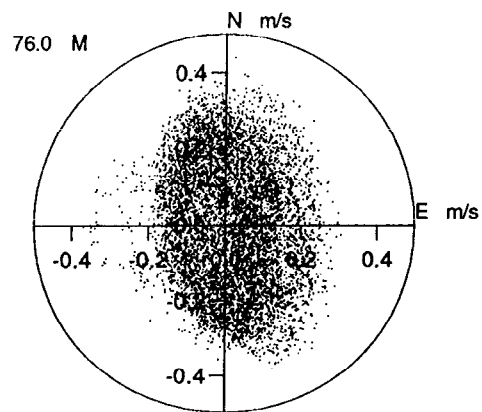


SCATTER PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

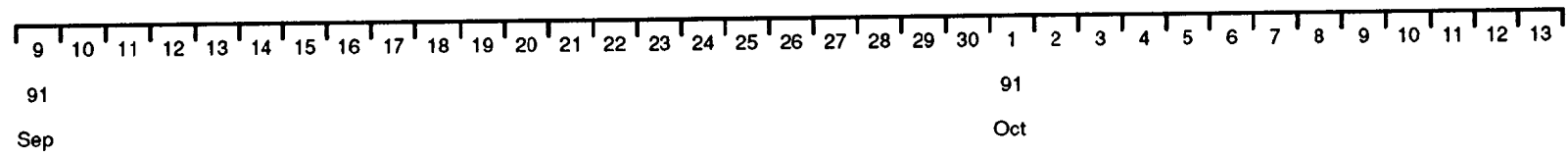
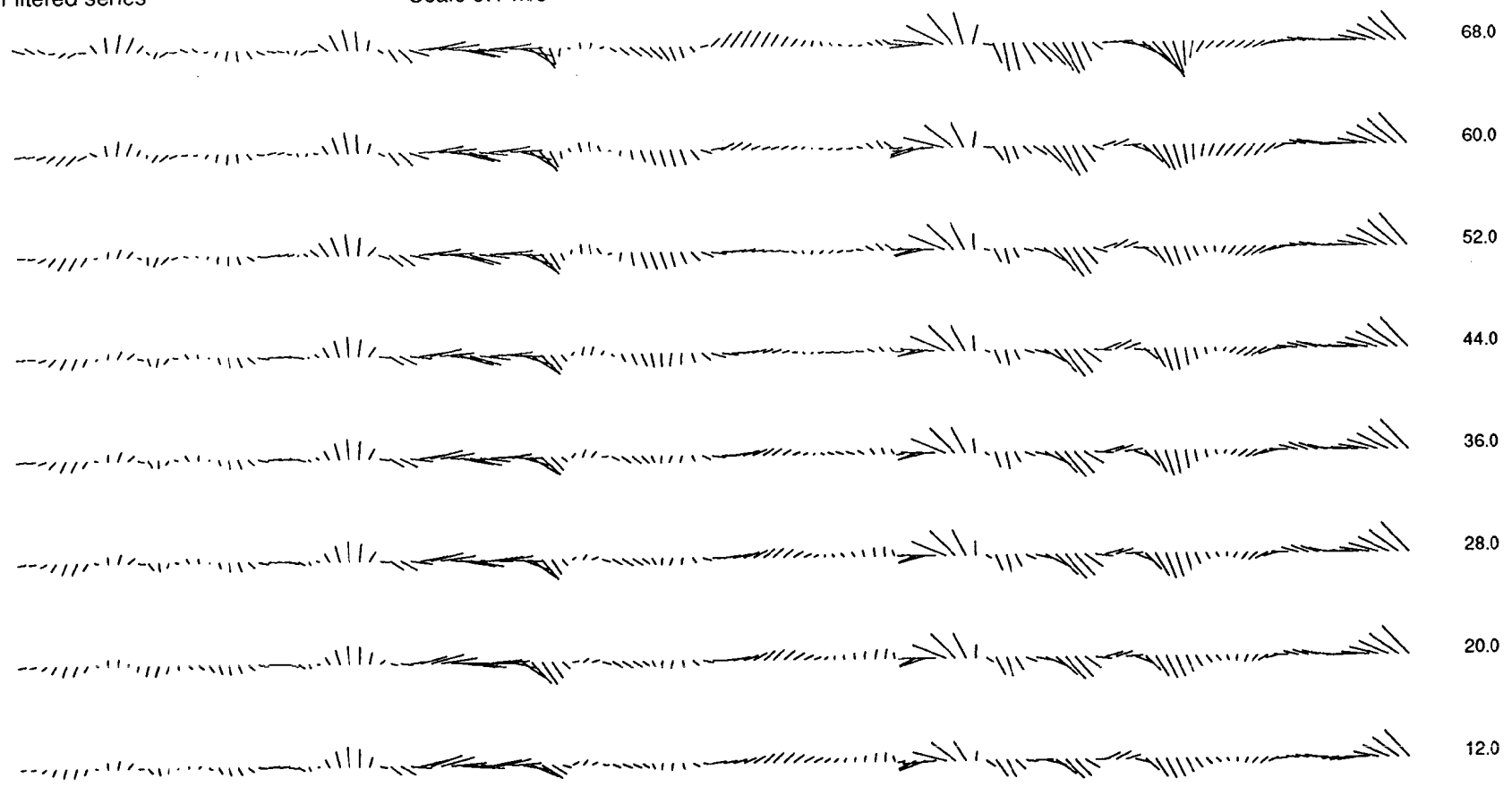
Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)



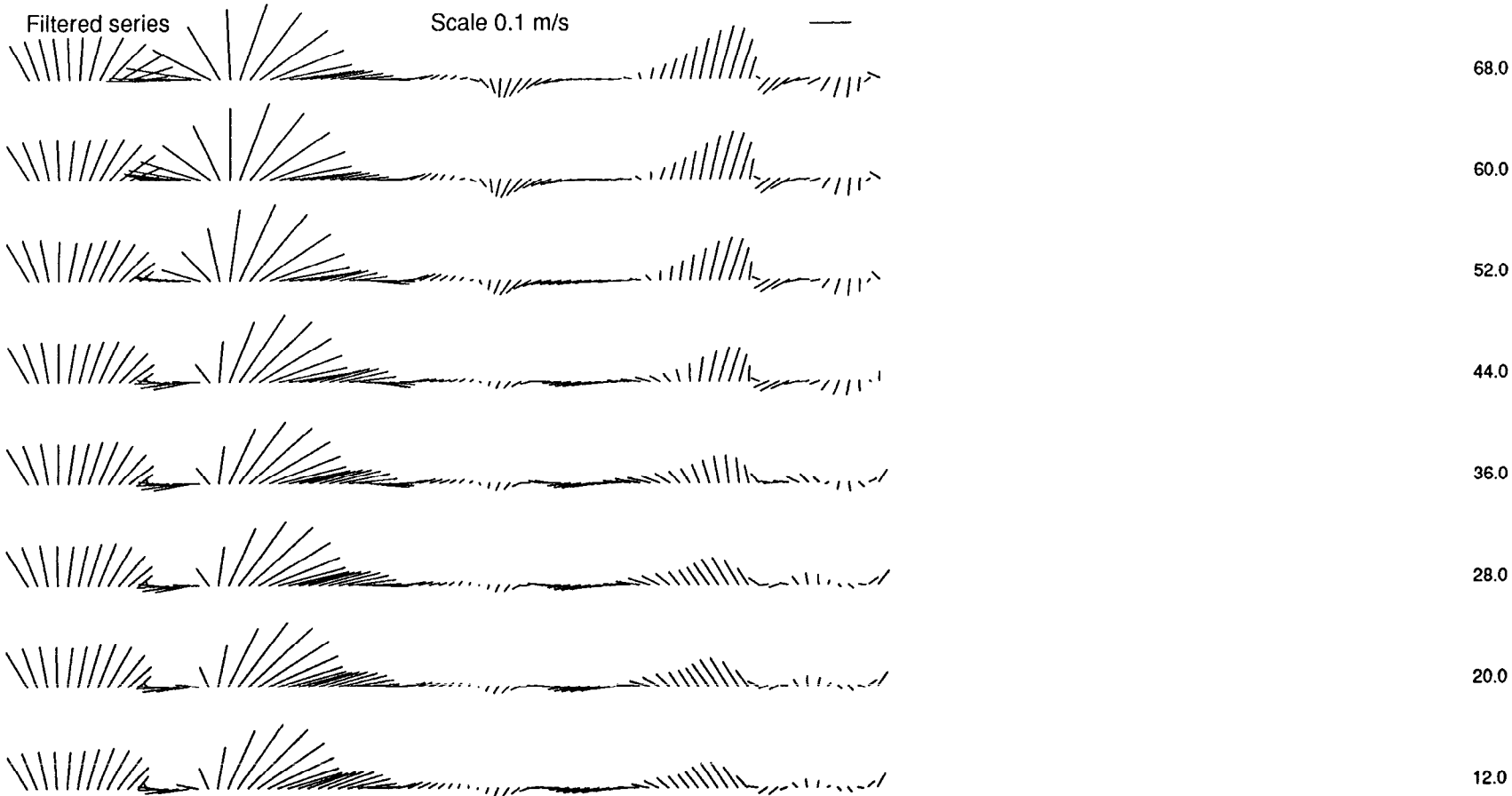
STICK TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Bin Ht (m)



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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91

Oct

Nov

STICK TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

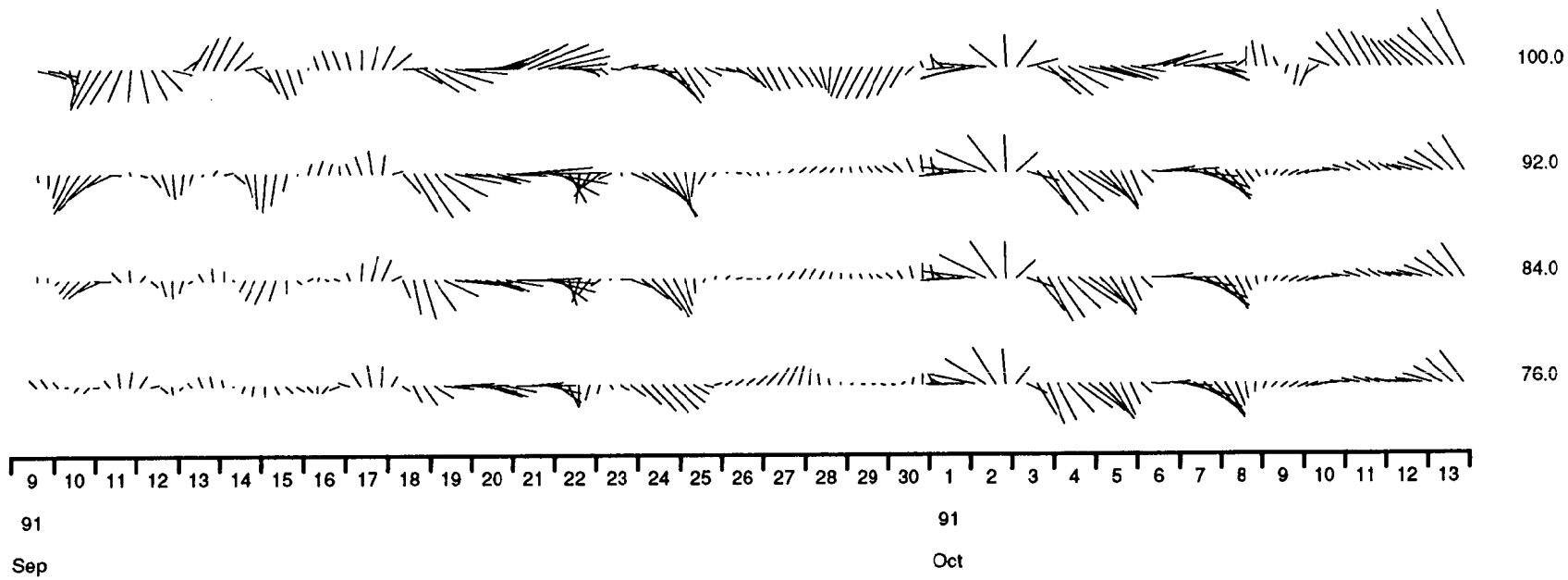
Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)



STICK TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

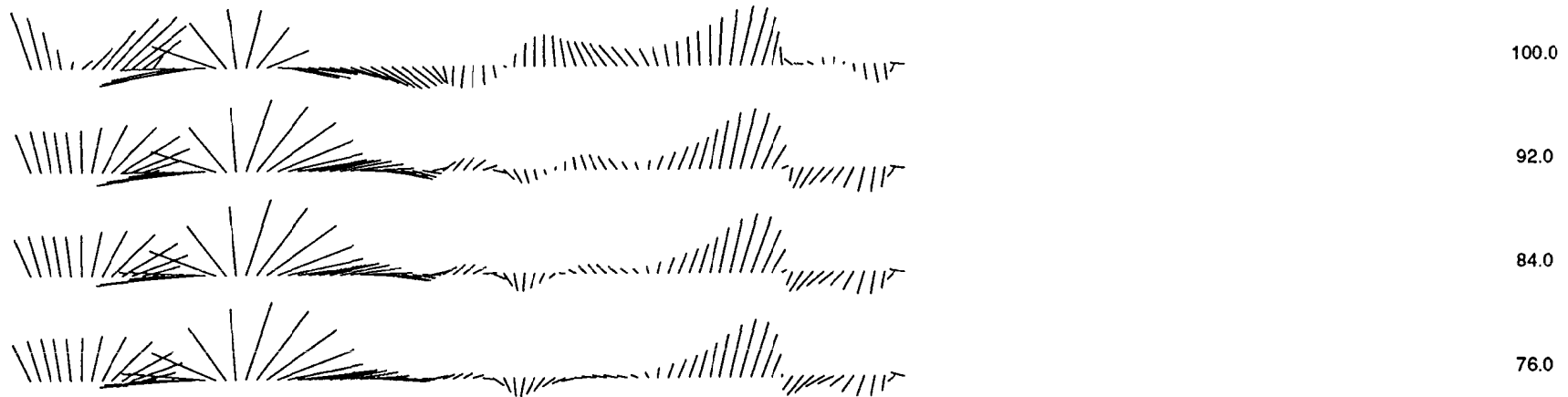
Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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Oct

Nov

Statistics for rd0394.00497

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	12.0	0.018	47.5	0.0178	1.4	0.0051	91.4
2	20.0	0.017	51.0	0.0234	0.8	0.0081	90.8
3	28.0	0.017	49.7	0.0244	-0.1	0.0080	89.9
4	36.0	0.016	49.8	0.0261	-2.1	0.0091	87.9
5	44.0	0.014	51.2	0.0271	-4.2	0.0097	85.8
6	52.0	0.013	44.6	0.0271	-6.3	0.0097	83.7
7	60.0	0.011	41.9	0.0262	-8.1	0.0098	81.9
8	68.0	0.013	47.5	0.0259	-9.3	0.0099	80.7
9	76.0	0.017	63.8	0.0254	-10.0	0.0095	80.0
10	84.0	0.017	73.2	0.0254	-9.6	0.0102	80.4
11	92.0	0.018	84.8	0.0258	-8.9	0.0112	81.1
12	100.0	0.022	79.3	0.0184	-9.2	0.0081	80.8

Statistics for rd0394.00497

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	12.0	0.015	44.5	0.0022	72.4	0.0010	162.4
2	20.0	0.013	47.4	0.0025	76.1	0.0012	166.1
3	28.0	0.013	45.3	0.0026	80.0	0.0012	170.0
4	36.0	0.012	45.7	0.0027	79.7	0.0012	169.7
5	44.0	0.012	47.4	0.0027	75.2	0.0013	165.2
6	52.0	0.011	38.2	0.0025	73.0	0.0016	163.0
7	60.0	0.009	33.4	0.0028	76.5	0.0018	166.5
8	68.0	0.011	41.8	0.0032	83.4	0.0020	173.4
9	76.0	0.014	62.6	0.0036	-86.0	0.0022	4.0
10	84.0	0.015	73.2	0.0040	-86.4	0.0025	3.6
11	92.0	0.017	85.4	0.0044	-87.8	0.0029	2.2
12	100.0	0.021	70.1	0.0043	-72.3	0.0030	17.7

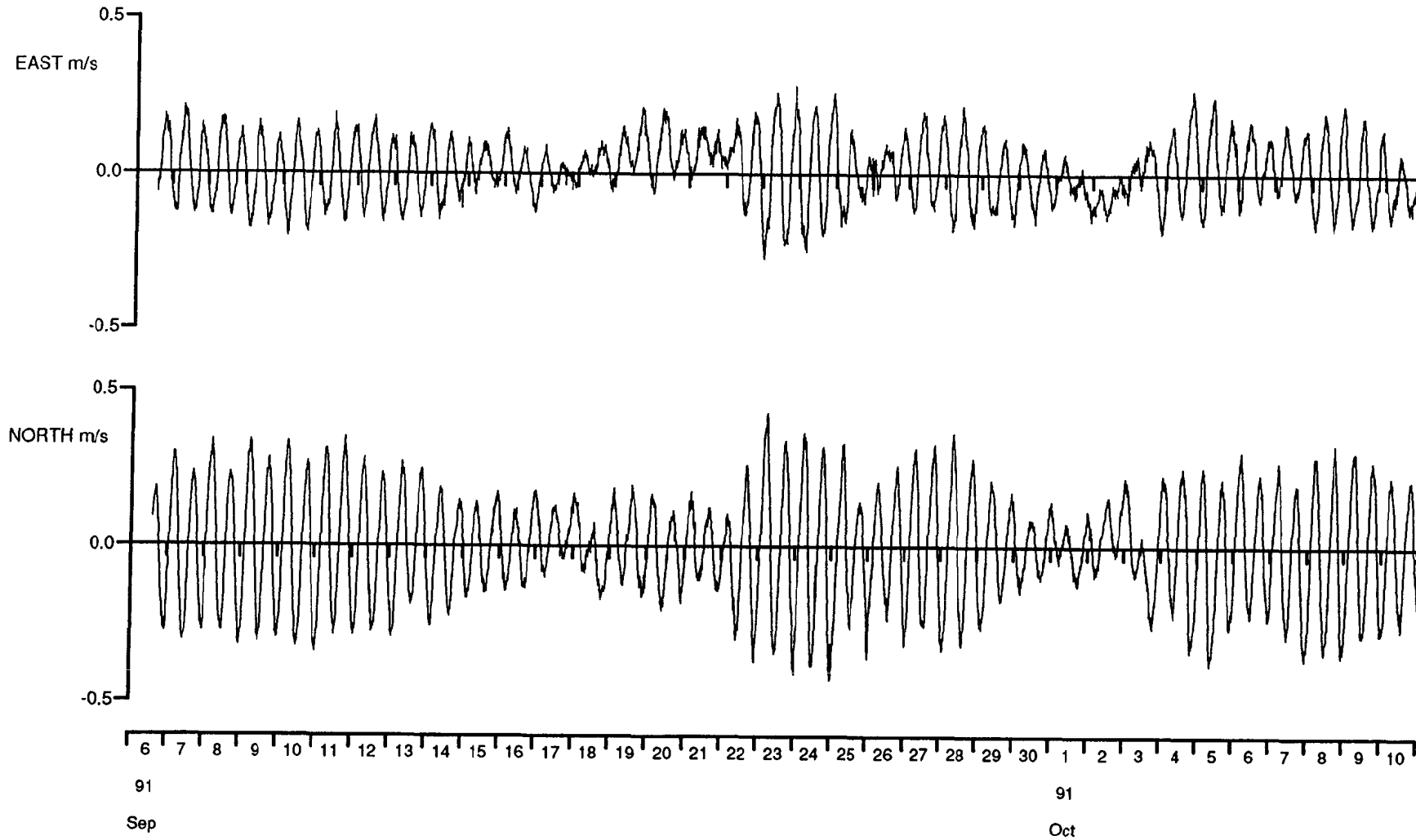
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht 44.0 Bin Ht (m)

Bin closest to depth average



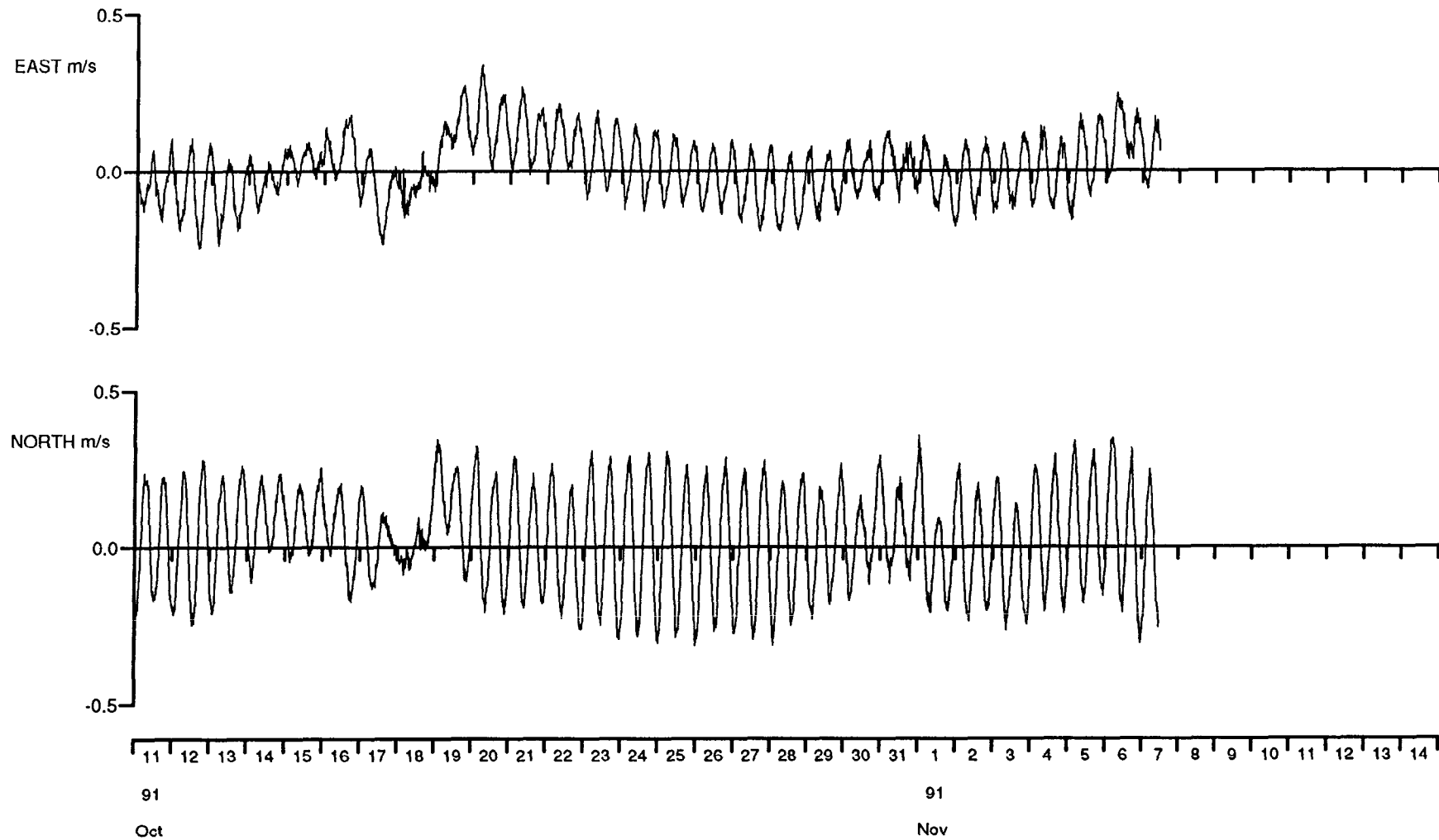
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht 44.0 Bin Ht (m)

Bin closest to depth average



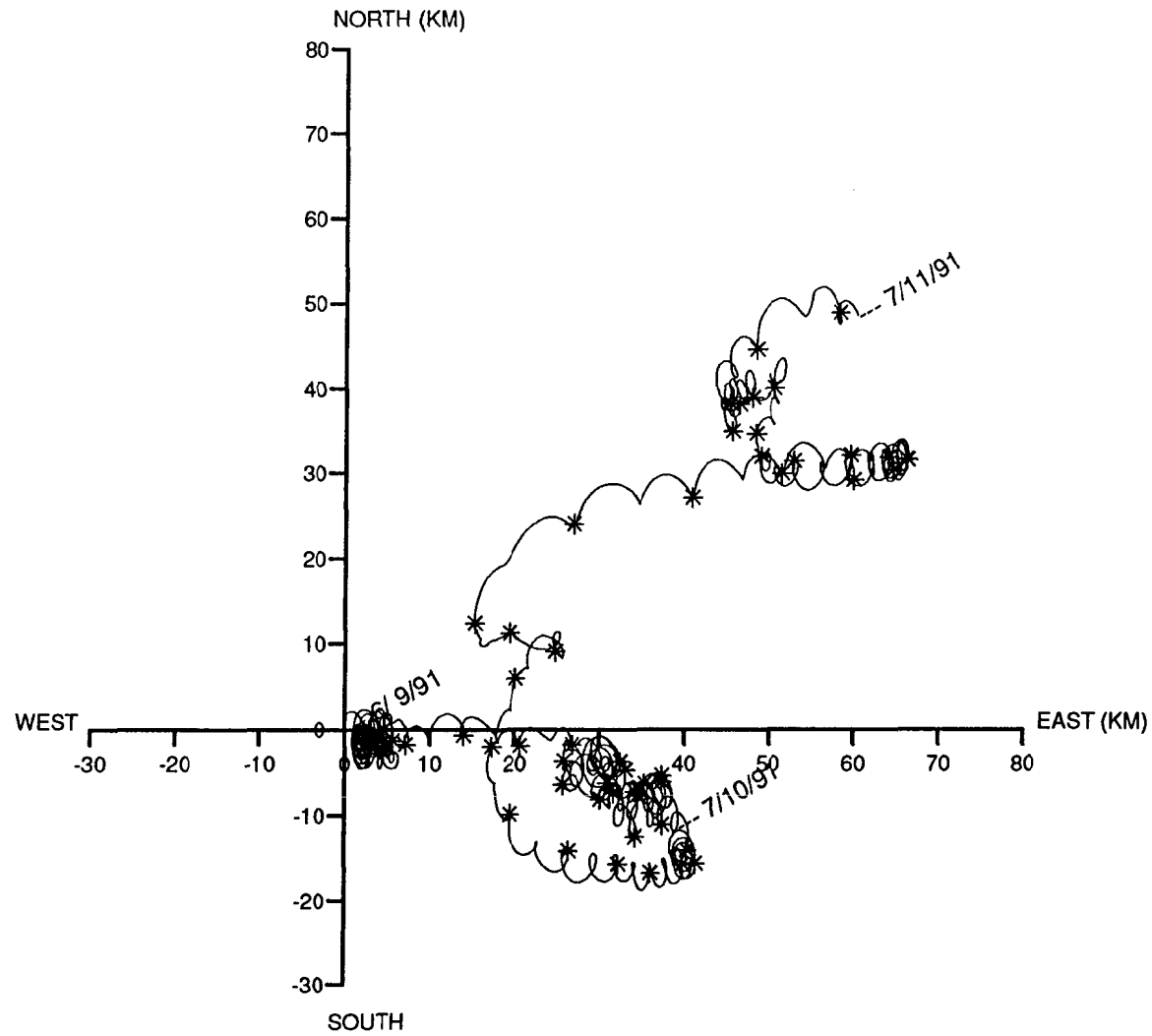
VECTOR PLOT

Meter no. 0394 Rig no. 00497 Depth of water(m) 119.0

Start/End 1991/09/06 AT 13:50:00 1991/11/07 AT 11:37:00

Position 59 40.01N 00 59.84E 12.00 Base Ht 8.00 Gap Ht 44.0 Bin Ht (m)

Bin closest to depth average



Statistics for rd0394.00497s6

Doppler bin number 6

	Mean	Variance	Standard deviation
Eastings	0.0093	0.98923761E-02	0.99460423E-01
Northings	0.0094	0.26853083E-01	0.16386910E+00
Speed	0.1756	0.60714390E-02	0.77919438E-01
Vector mean speed	0.0132		
Vector Mean Direction	44.6		

Maximum ten values

Eastings					Northings				
0.281	0.274	0.272	0.267	0.266	0.424	0.416	0.414	0.413	0.412
0.265	0.263	0.262	0.260	0.260	0.400	0.399	0.397	0.396	0.393

Minimum ten values

Eastings					Northings				
-0.262	-0.267	-0.267	-0.269	-0.270	-0.403	-0.405	-0.406	-0.410	-0.414
-0.270	-0.270	-0.275	-0.277	-0.283	-0.414	-0.417	-0.419	-0.427	-0.430

Maximum speeds

0.447	0.443	0.442	0.441	0.439	0.427	0.420	0.420	0.419	0.417
0.417	0.415	0.414	0.414	0.412	0.412	0.411	0.411	0.410	0.409
0.407	0.406	0.405	0.405	0.404	0.403	0.403	0.403	0.402	0.401
0.399	0.399	0.397	0.397	0.396	0.395	0.395	0.395	0.394	0.394
0.394	0.393	0.393	0.393	0.393	0.390	0.390	0.390	0.389	0.389
0.389	0.389	0.389	0.389	0.388	0.387	0.387	0.387	0.387	0.385
0.385	0.384	0.383	0.383	0.382	0.381	0.380	0.380	0.380	0.379
0.379	0.375	0.375	0.375	0.374	0.374	0.374	0.374	0.373	0.373
0.373	0.373	0.373	0.372	0.372	0.371	0.371	0.370	0.369	0.369
0.369	0.368	0.368	0.368	0.368	0.367	0.367	0.367	0.367	0.366

Variance ellipse statistics

Maximum variance	0.2706E-01	Direction	-6.3
Minimum variance	0.9685E-02	Direction	83.7
Total variance	0.3675E-01	Ratio of variances	0.3579E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			3.7
Average direction. maxdir +PI/2 to maxdir -PI/2			174.9

Statistics for rd0394.00497s6f

Doppler bin number 6

	Mean	Variance	Standard deviation
Eastings	0.0067	0.24652516E-02	0.49651299E-01
Northings	0.0085	0.16626808E-02	0.40775981E-01
Speed	0.0516	0.15746003E-02	0.39681233E-01
Vector mean speed	0.0108		
Vector Mean Direction	38.2		

Maximum ten values

Eastings					Northings				
0.185	0.176	0.173	0.152	0.143	0.191	0.178	0.167	0.132	0.118
0.130	0.112	0.100	0.093	0.093	0.106	0.103	0.102	0.102	0.102

Minimum ten values

Eastings					Northings				
-0.070	-0.073	-0.073	-0.074	-0.086	-0.039	-0.040	-0.040	-0.043	-0.044
-0.087	-0.089	-0.094	-0.105	-0.106	-0.045	-0.049	-0.056	-0.062	-0.069

Maximum speeds

0.219	0.212	0.210	0.197	0.180	0.176	0.153	0.135	0.132	0.114
0.114	0.113	0.110	0.109	0.109	0.108	0.107	0.106	0.106	0.105
0.103	0.102	0.101	0.101	0.101	0.099	0.099	0.099	0.097	0.096
0.094	0.093	0.093	0.092	0.090	0.090	0.090	0.088	0.087	0.086
0.085	0.085	0.084	0.084	0.083	0.083	0.083	0.081	0.079	0.078
0.078	0.078	0.078	0.077	0.076	0.074	0.073	0.073	0.073	0.072
0.071	0.071	0.068	0.066	0.065	0.064	0.063	0.063	0.061	0.061
0.061	0.059	0.058	0.057	0.056	0.055	0.055	0.053	0.052	0.052
0.052	0.051	0.050	0.050	0.049	0.049	0.049	0.048	0.047	0.047
0.047	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.043	0.043

Variance ellipse statistics

Maximum variance	0.2548E-02	Direction	73.0
Minimum variance	0.1580E-02	Direction	163.0
Total variance	0.4128E-02	Ratio of variances	0.6201E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	7.1		
Average direction. maxdir +PI/2 to maxdir -PI/2	185.1		

Rig information details for 00502

Position Latitude	:	59 39.95N
Position Longitude	:	00 49.16E
Water depth	:	122.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	TRAWLED
Site name identification	:	FA
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	14-SEP-91 15:00:00
Rig recovered on	:	24-OCT-91 00:00:00
Period of deployment	:	39.4 days
Comments	:	Rig trawled up sometime after 0000 hours on 24 OCT

Meter information details for 0003

Rig No	:	00502
Meter No	:	0003
Frame angle correction	:	7.9 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	14-SEP-91 14:39:01
Time of last valid scan	:	23-OCT-91 13:59:04
Period of good data	:	39.0 days short record
Total number of scans	:	5610
Timing error	:	3 seconds slow
Comments	:	Good record obtained until trawled

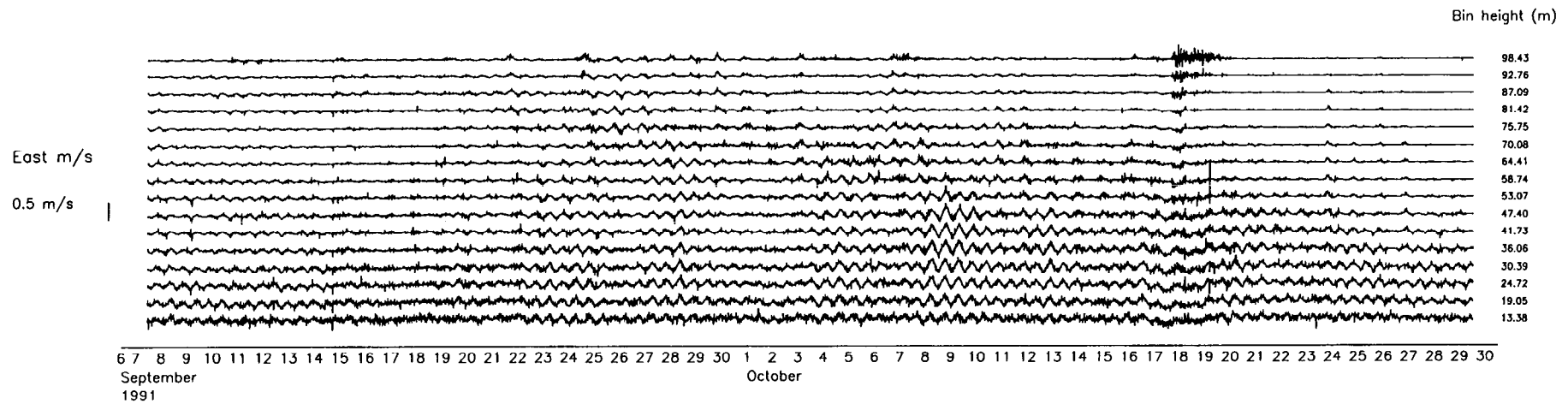
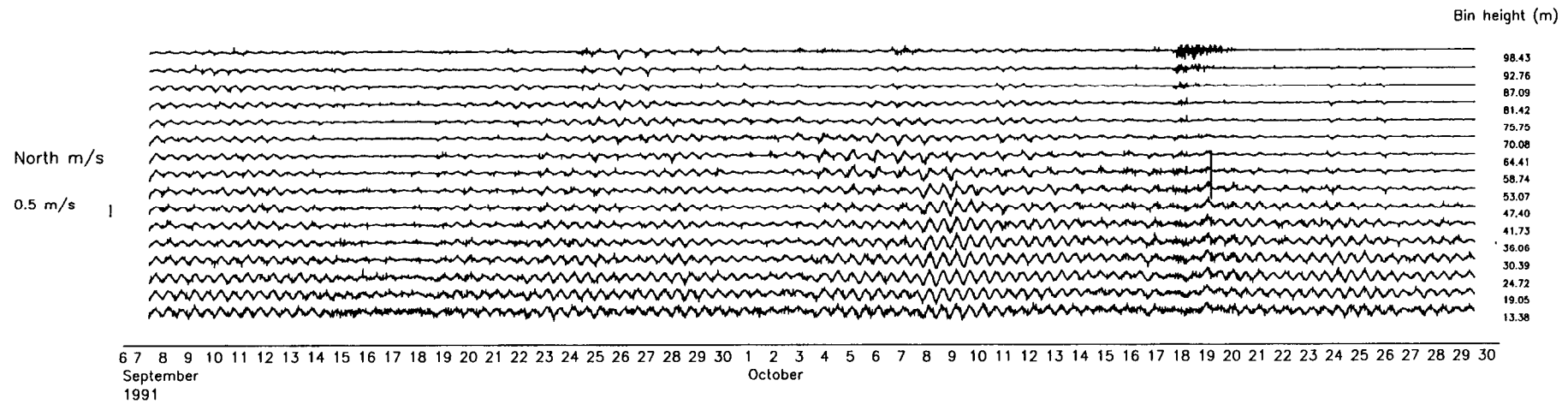
TIME SERIES PLOTS

Meter No. 0001 Site IA Data Taken from 2 Consecutive Deployments

1. Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

2. Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.55N 01 00.29E Water Depth(m) 118.0



Meter information details for 0001

Rig No	:	00507
Meter No	:	0001
Frame angle correction	:	1.3 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	07-SEP-91 10:09:31
Meter stopped	:	14-SEP-91 16:39:31
Period switched on	:	7.3 days
Period of good data	:	7.3 days
Total number of scans	:	1047
Timing error	:	None
Comments	:	Good record obtained

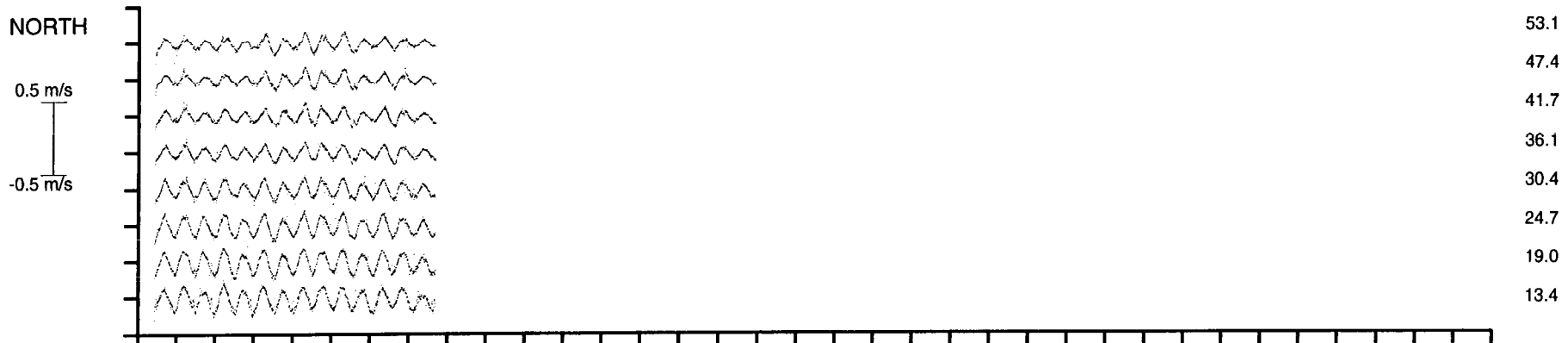
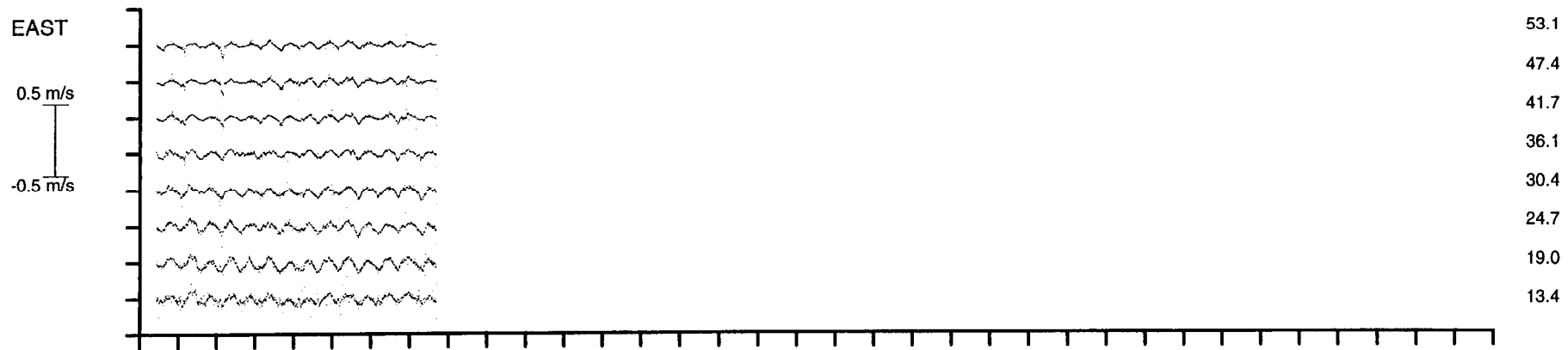
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00507 Depth of water(m) 118.0

Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

Position 59 53.55N 01 00.29E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11

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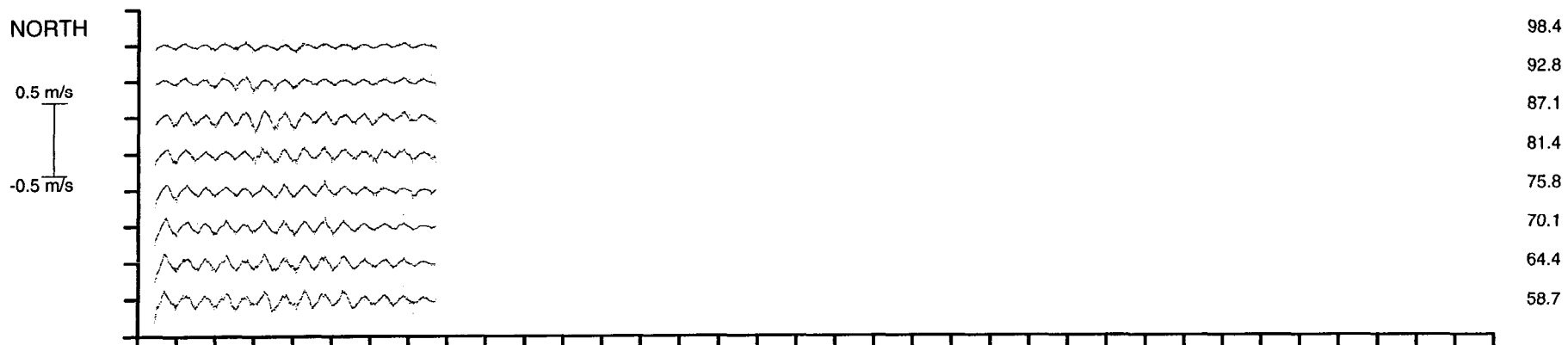
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00507 Depth of water(m) 118.0

Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

Position 59 53.55N 01 00.29E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



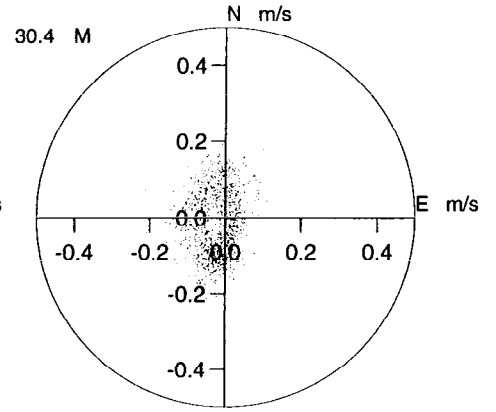
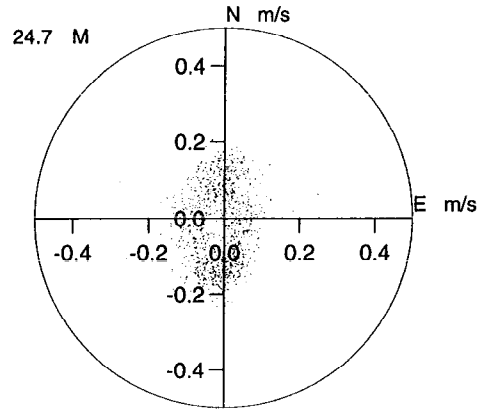
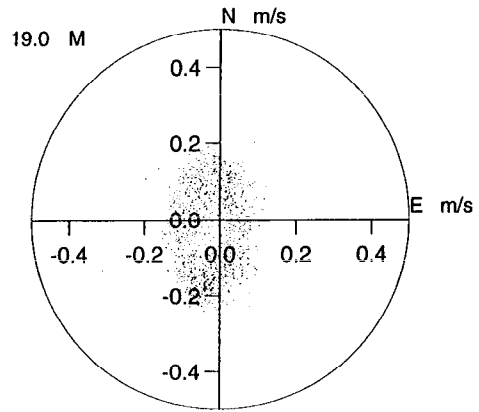
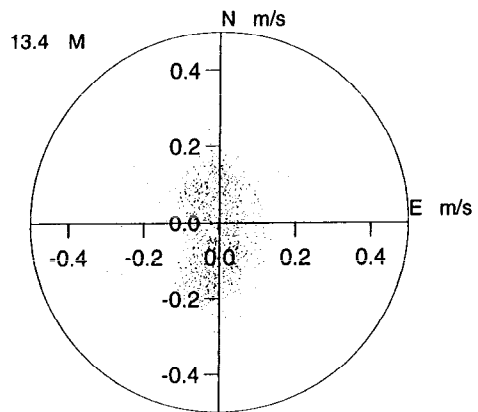
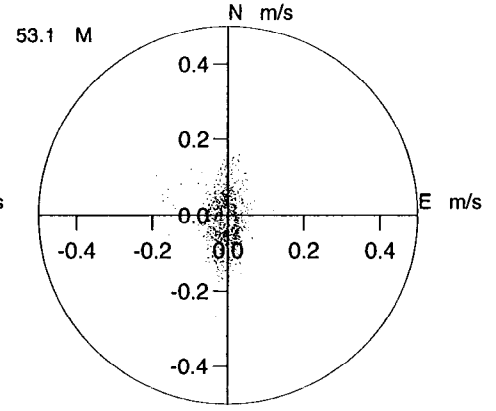
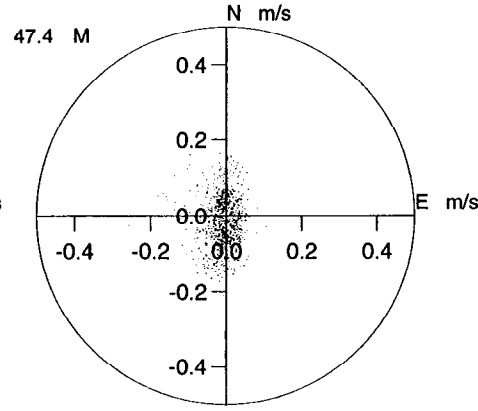
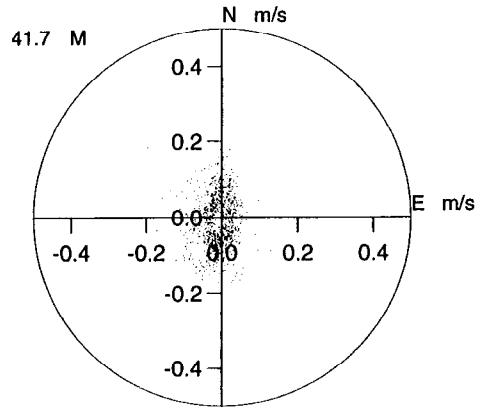
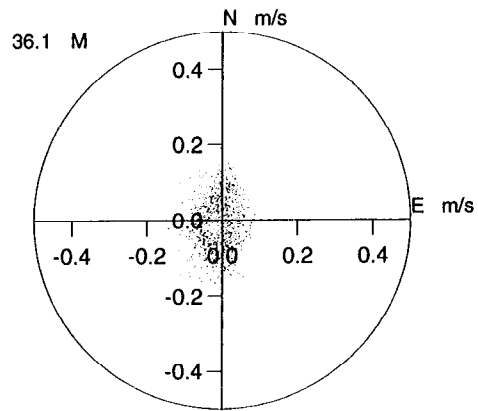
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
91 91
Sep Oct

SCATTER PLOT

Meter no. 0001 Rig no. 00507 Depth of water(m) 118.0

Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

Position 59 53.55N 01 00.29E 13.38 Base Ht 5.67 Gap Ht

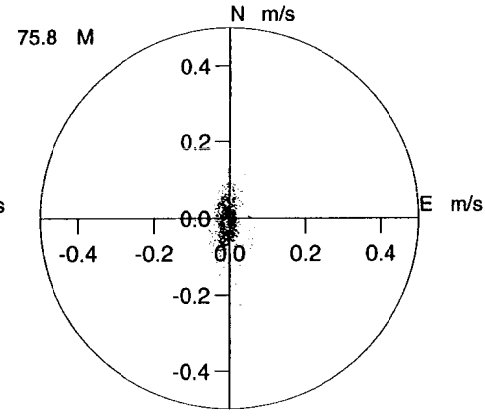
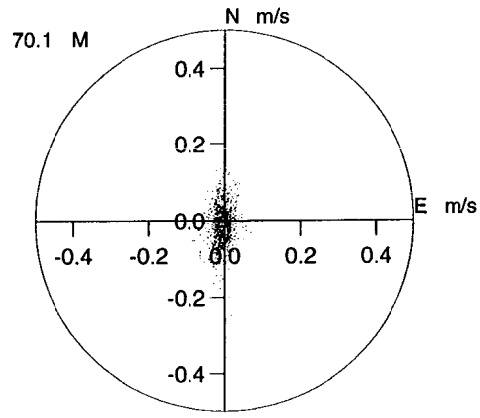
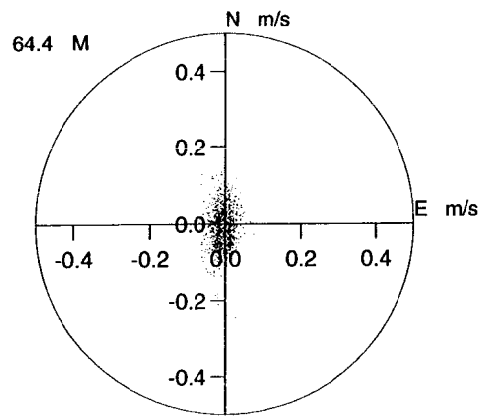
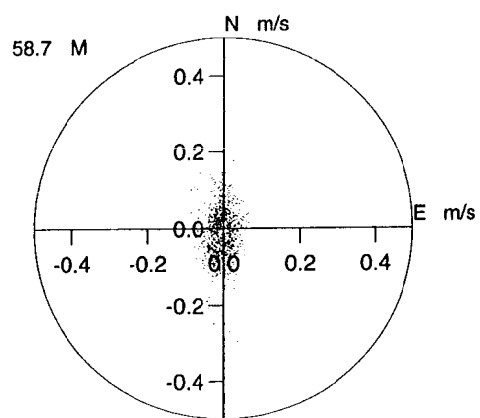
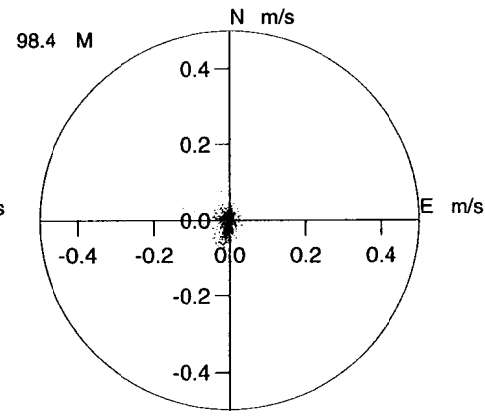
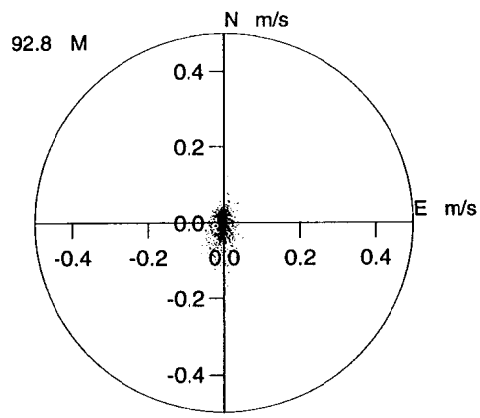
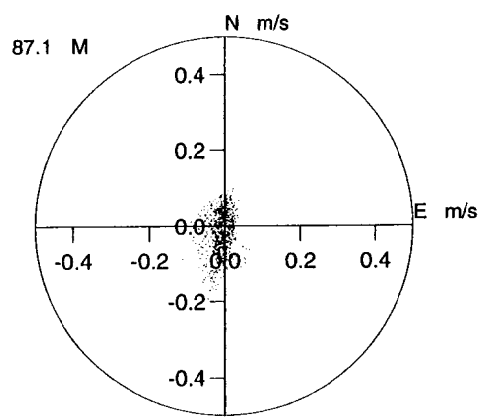
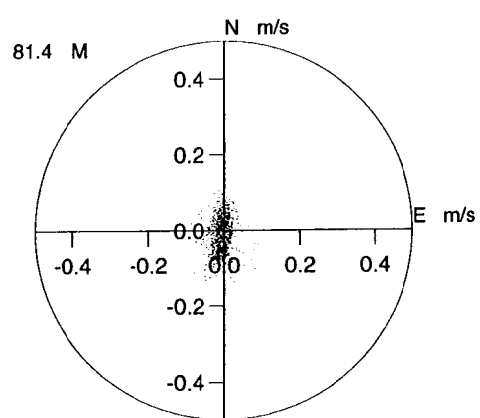


SCATTER PLOT

Meter no. 0001 Rig no. 00507 Depth of water(m) 118.0

Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

Position 59 53.55N 01 00.29E 13.38 Base Ht 5.67 Gap Ht



Statistics for dp0001.00507

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.025	-153.4	0.0110	1.4	0.0027	91.4
2	19.0	0.035	-141.1	0.0124	1.7	0.0033	91.7
3	24.7	0.025	-150.7	0.0105	3.6	0.0029	93.6
4	30.4	0.024	-122.0	0.0071	3.9	0.0019	93.9
5	36.1	0.015	-146.8	0.0047	2.7	0.0013	92.7
6	41.7	0.016	-138.8	0.0045	2.9	0.0011	92.9
7	47.4	0.015	-143.8	0.0043	1.9	0.0011	91.9
8	53.1	0.015	-148.6	0.0042	0.8	0.0009	90.8
9	58.7	0.013	-153.6	0.0038	0.9	0.0006	90.9
10	64.4	0.012	-149.9	0.0029	1.7	0.0004	91.7
11	70.1	0.010	-146.8	0.0024	2.5	0.0003	92.5
12	75.8	0.010	-148.9	0.0020	1.9	0.0003	91.9
13	81.4	0.013	-152.1	0.0022	4.0	0.0003	94.0
14	87.1	0.018	-152.7	0.0030	4.9	0.0004	94.9
15	92.8	0.012	-161.3	0.0012	4.5	0.0002	94.5
16	98.4	0.009	-144.3	0.0005	2.9	0.0002	92.9

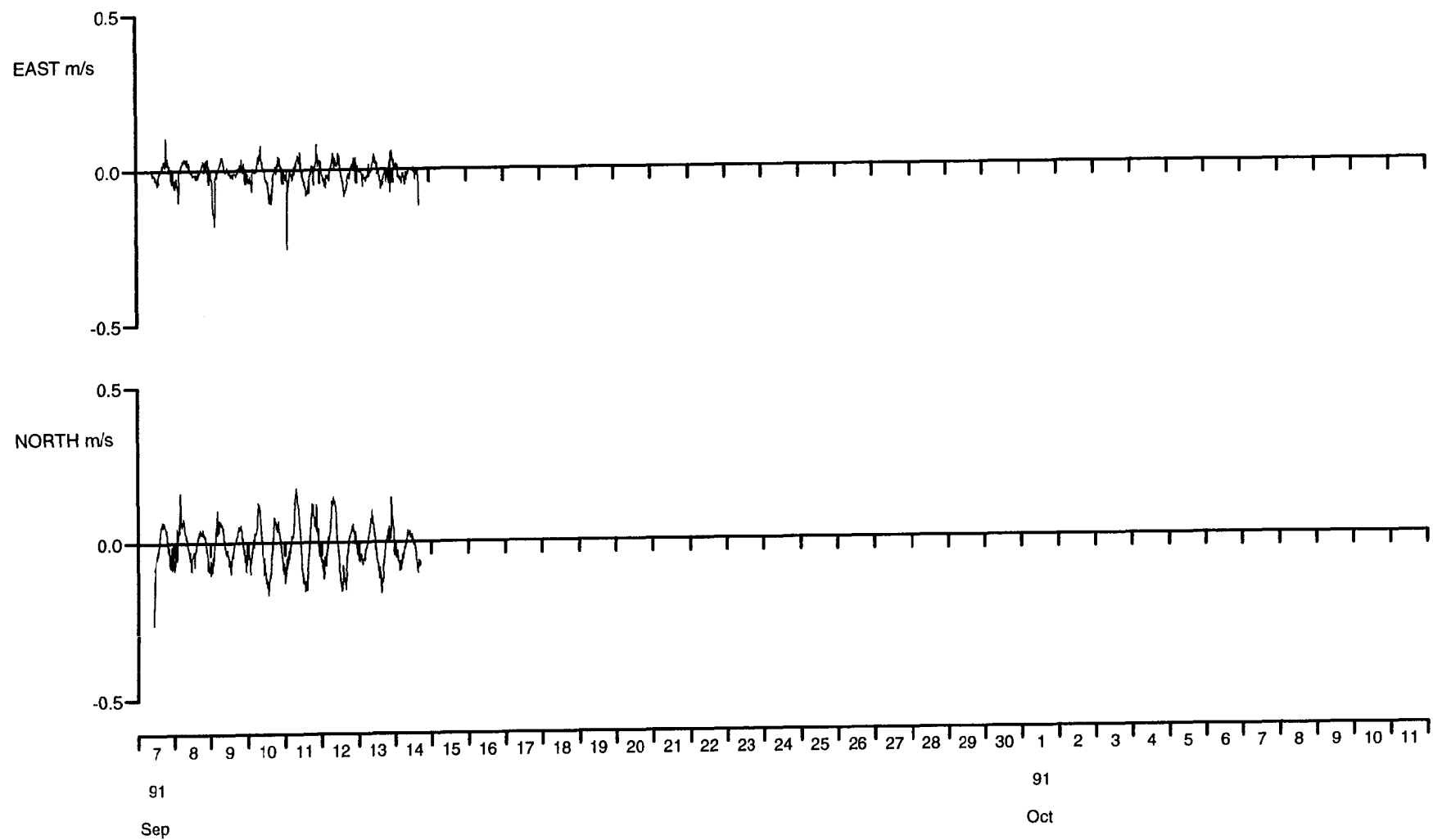
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00507 Depth of water(m) 118.0

Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

Position 59 53.55N 01 00.29E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



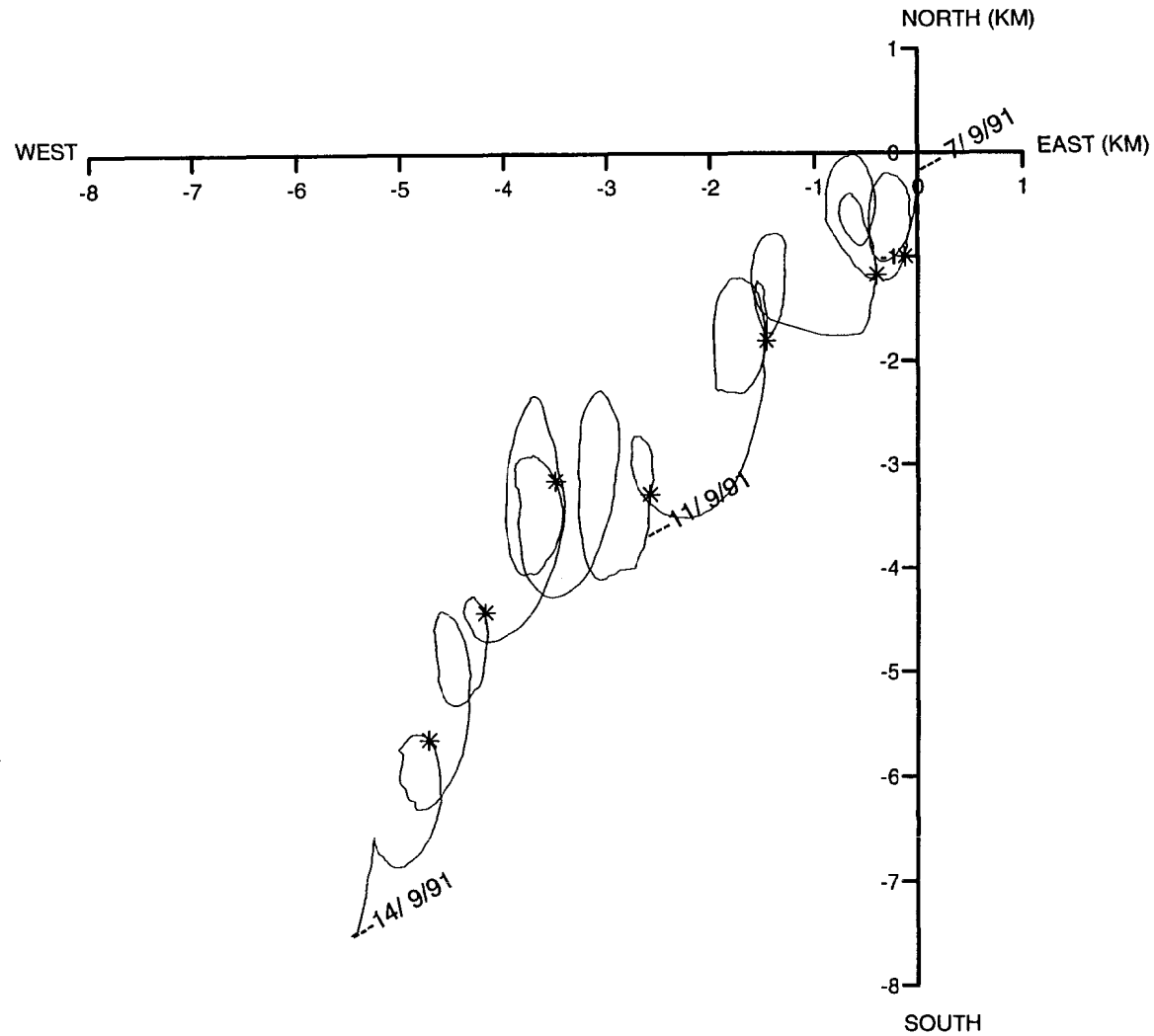
VECTOR PLOT

Meter no. 0001 Rig no. 00507 Depth of water(m) 118.0

Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00

Position 59 53.55N 01 00.29E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0001.00507s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0087	0.11174497E-02	0.33428274E-01
Northings	-0.0119	0.43114913E-02	0.65661952E-01
Speed	0.0649	0.14314885E-02	0.37835017E-01
Vector mean speed	0.0148		
Vector Mean Direction	-143.8		

Maximum ten values

Eastings					Northings				
0.107	0.083	0.079	0.061	0.058	0.175	0.165	0.161	0.159	0.157
0.057	0.055	0.055	0.055	0.054	0.157	0.153	0.150	0.146	0.143

Minimum ten values

Eastings					Northings				
-0.129	-0.136	-0.137	-0.137	-0.142	-0.154	-0.154	-0.156	-0.157	-0.162
-0.155	-0.157	-0.166	-0.179	-0.256	-0.164	-0.166	-0.172	-0.210	-0.262

Maximum speeds

0.262	0.257	0.210	0.188	0.186	0.177	0.175	0.173	0.172	0.171
0.169	0.169	0.167	0.166	0.165	0.163	0.163	0.161	0.161	0.161
0.159	0.158	0.158	0.157	0.157	0.155	0.155	0.153	0.153	0.151
0.150	0.150	0.148	0.147	0.147	0.147	0.147	0.145	0.145	0.145
0.144	0.144	0.143	0.143	0.143	0.143	0.142	0.142	0.142	0.142
0.141	0.141	0.141	0.141	0.140	0.139	0.139	0.138	0.138	0.138
0.138	0.138	0.137	0.137	0.137	0.137	0.137	0.136	0.136	0.134
0.134	0.134	0.132	0.132	0.132	0.132	0.132	0.131	0.131	0.131
0.130	0.130	0.129	0.129	0.129	0.128	0.128	0.128	0.128	0.128
0.128	0.127	0.127	0.127	0.127	0.127	0.127	0.126	0.126	0.125

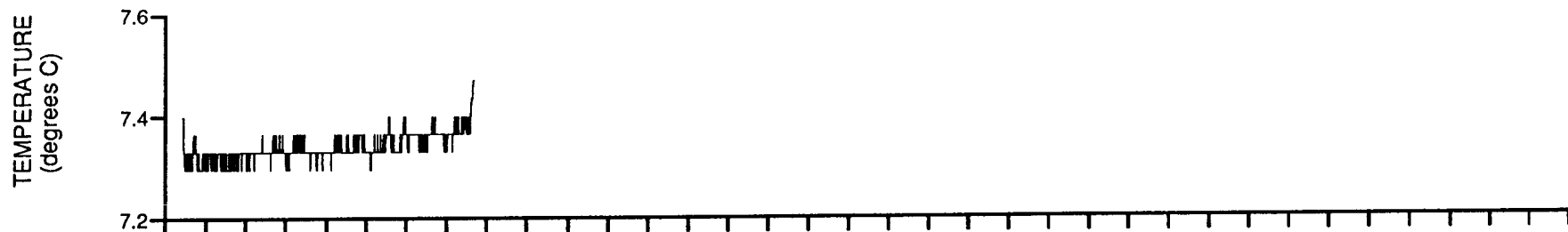
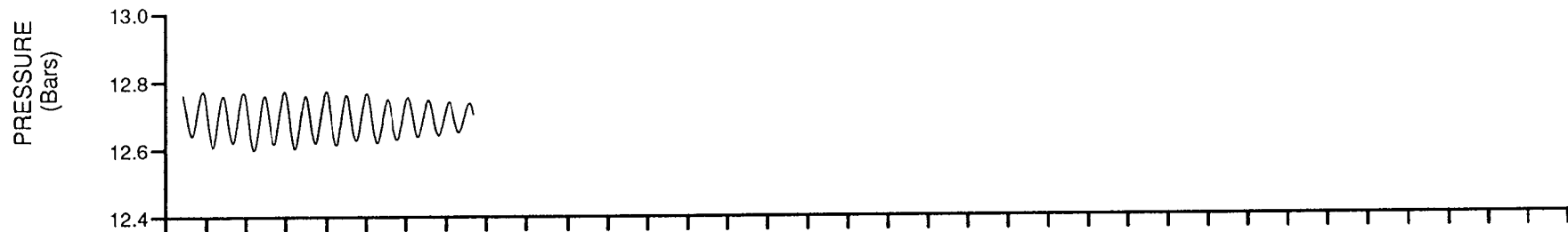
Variance ellipse statistics

Maximum variance	0.4315E-02	Direction	1.9
Minimum variance	0.1114E-02	Direction	91.9
Total variance	0.5429E-02	Ratio of variances	0.2582E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	-8.4		
Average direction. maxdir +PI/2 to maxdir -PI/2	185.7		

Meter information details for 0445

Rig No	:	00507
Meter No	:	0445
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Position of meter on rig	:	A
Meter type	:	WR
Meter started	:	07-SEP-91 06:30:40
Meter stopped	:	14-SEP-91 17:40:00
Period switched on	:	7.5 days
Period of good data	:	7.3 days
Total number of scans	:	1046
Timing error	:	40 seconds fast
Comments	:	Good record obtained

Meter no. 0445 Rig no. 00507 Depth of water(m) 118.0
Start/End 1991/09/07 AT 10:13:00 1991/09/14 AT 16:41:00
Position 59 53.55N 01 00.29E Meter Height(m) 0.8



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
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Sep Oct

Rig information details for 00514

Position Latitude	:	59 53.58N
Position Longitude	:	01 00.31E
Water depth	:	117.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	IA2
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	14-SEP-91 18:44:00
Rig recovered on	:	01-NOV-91 13:56:00
Period of deployment	:	47.8 days
Comments	:	Launch and recovery successful

Meter information details for 0001

Rig No	:	00514
Meter No	:	0001
Frame angle correction	:	-21.2 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	14-SEP-91 18:39:29
Time of last valid scan	:	29-OCT-91 13:49:27
Period of good data	:	44.8 days short record
Total number of scans	:	6451
Timing error	:	2 seconds fast
Comments	:	Good record obtained

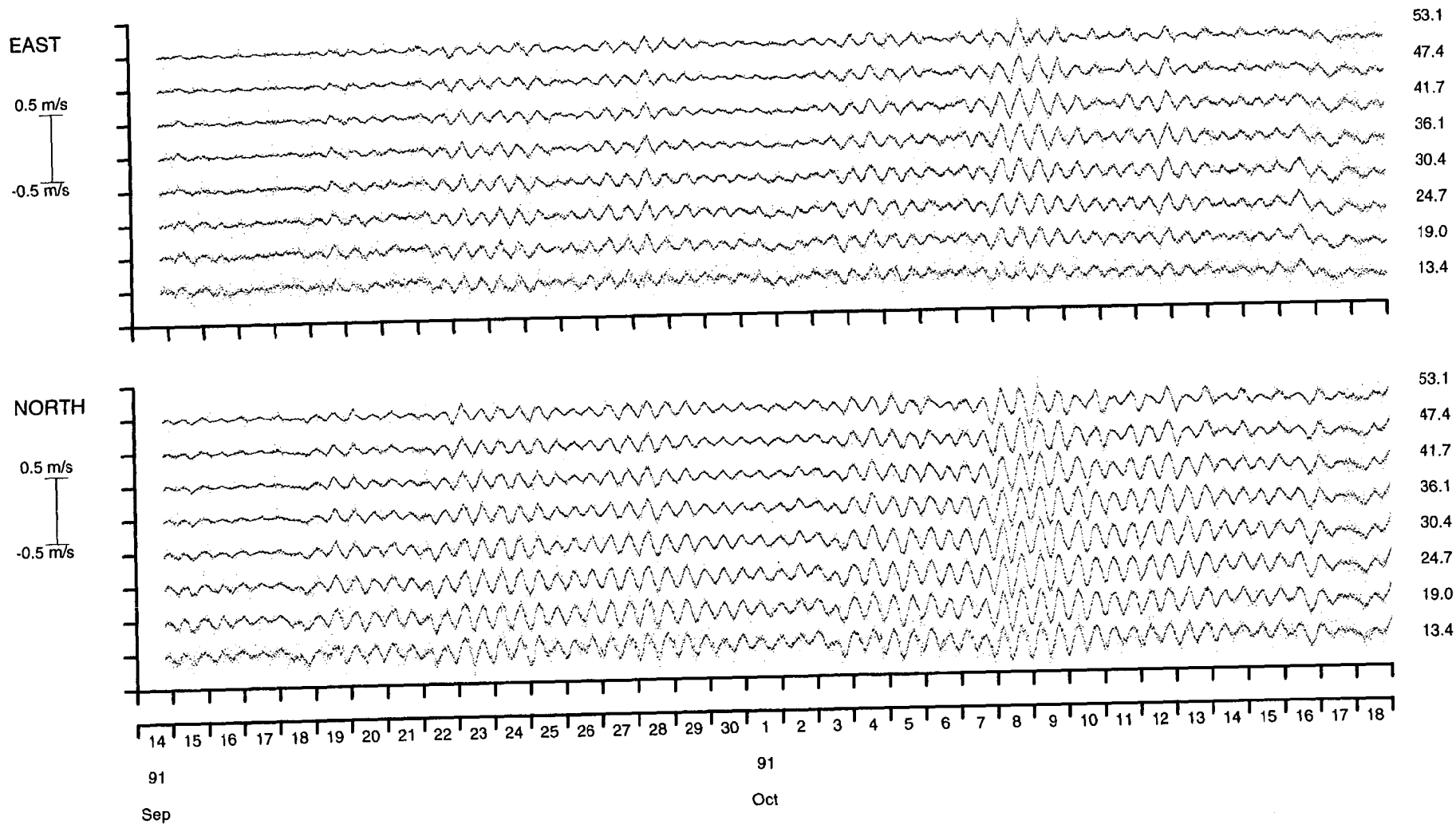
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



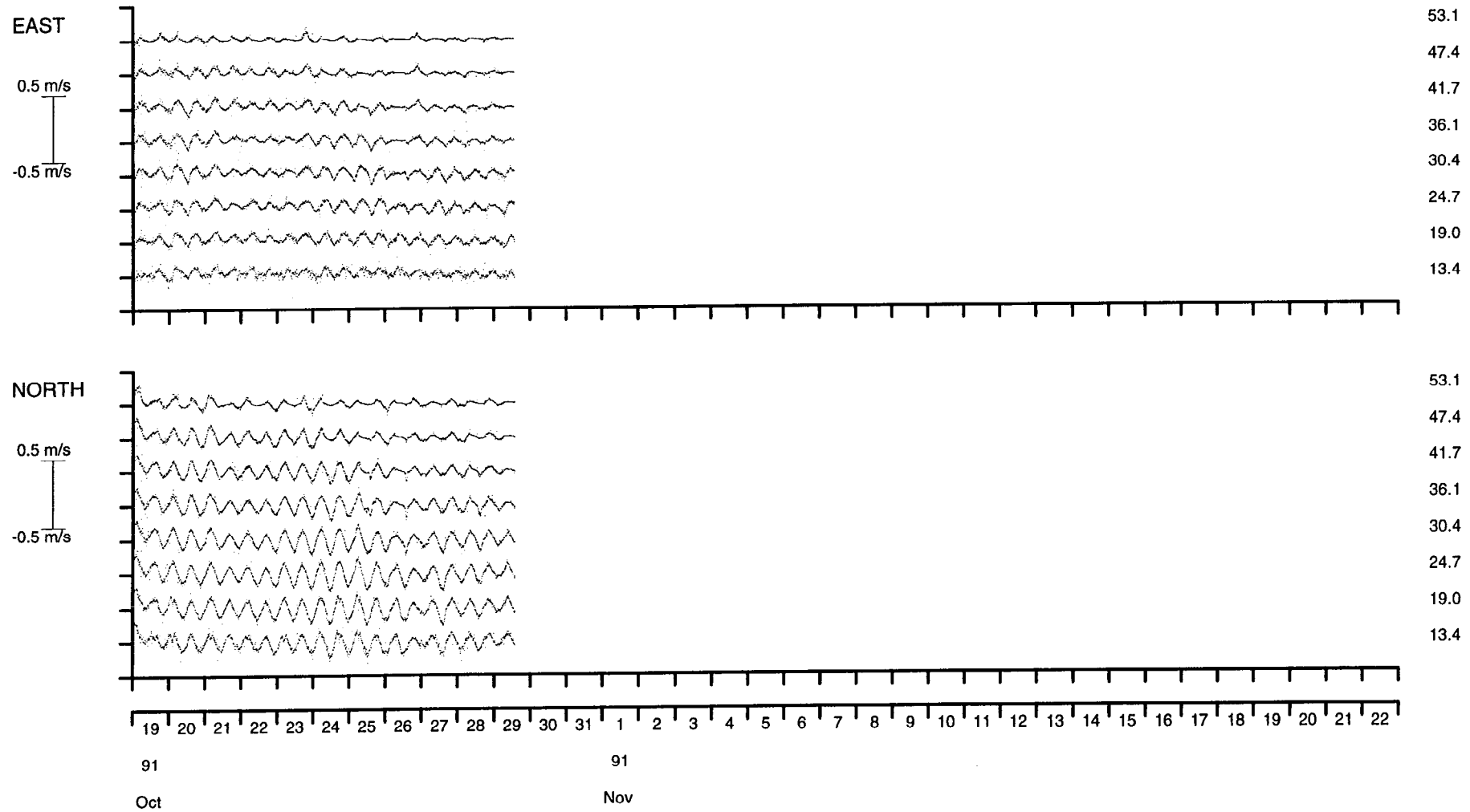
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



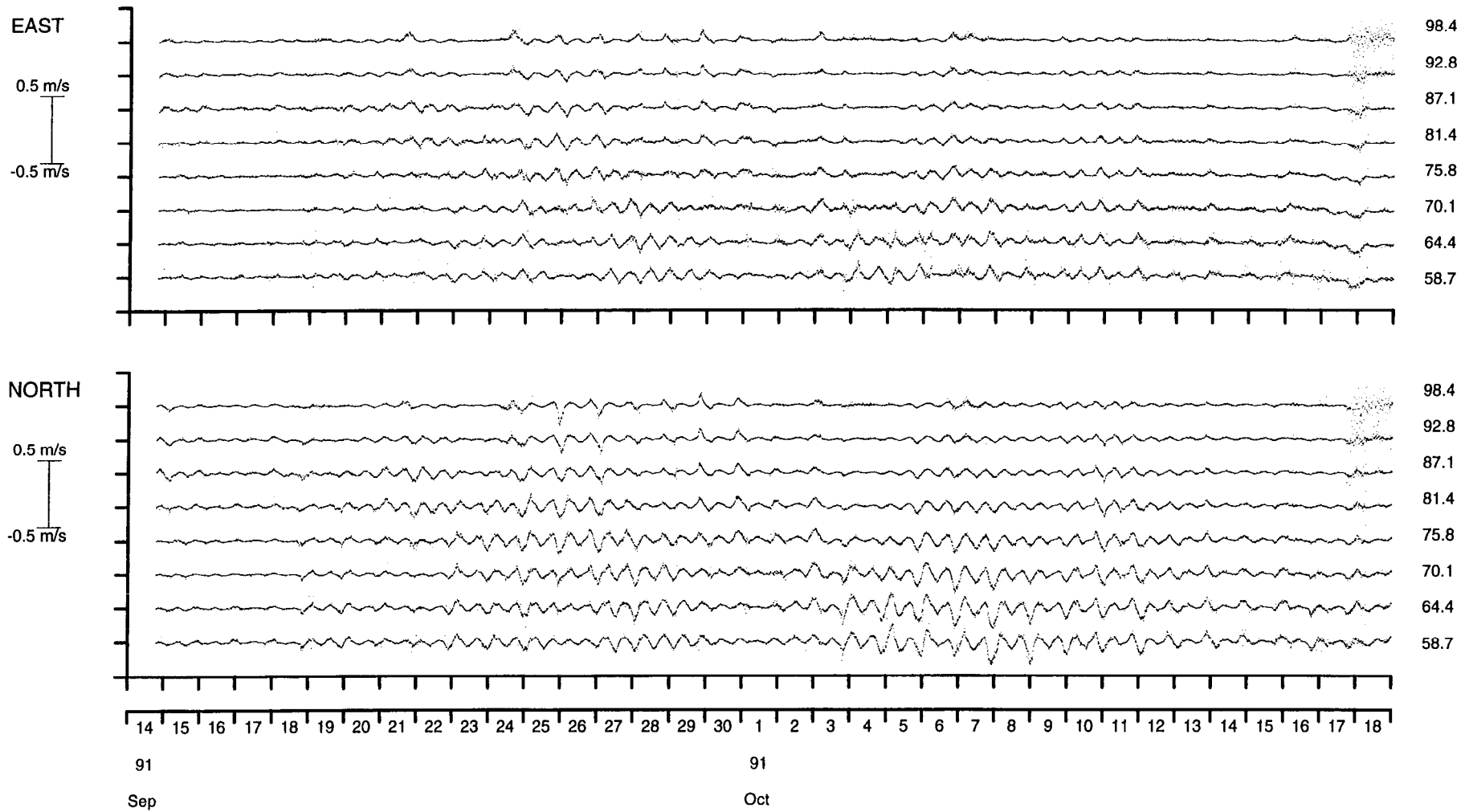
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



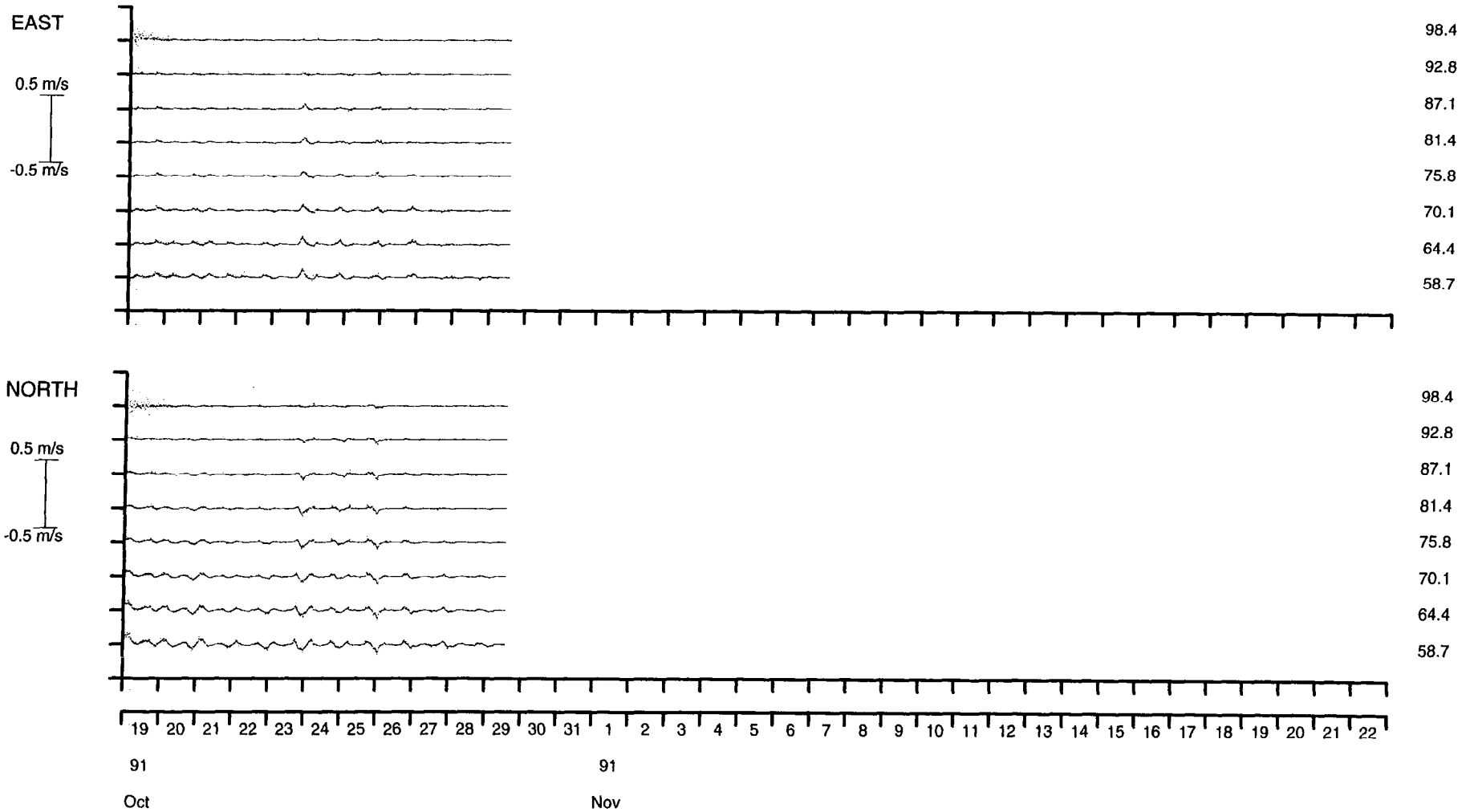
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

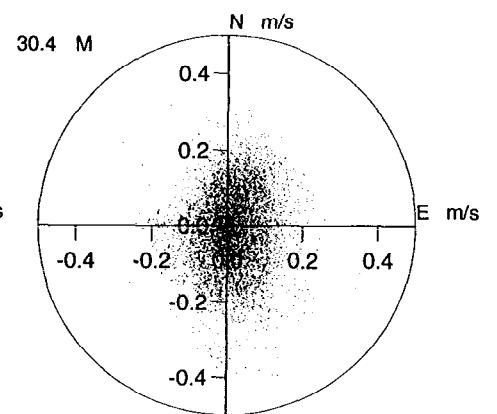
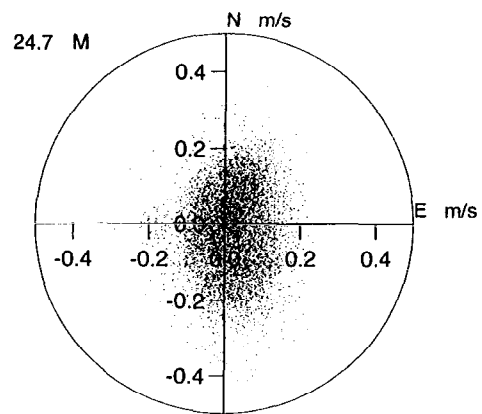
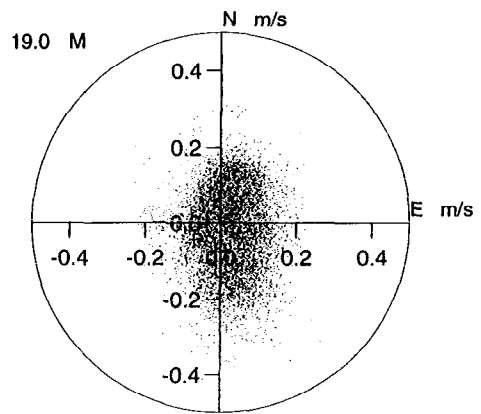
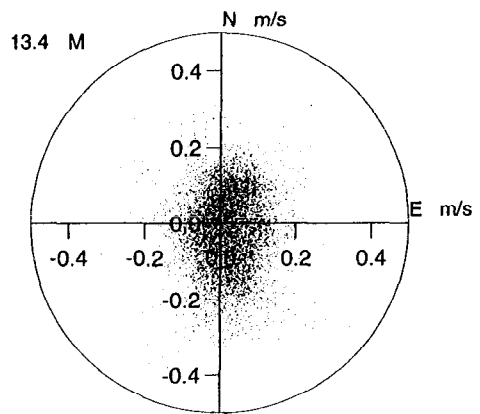
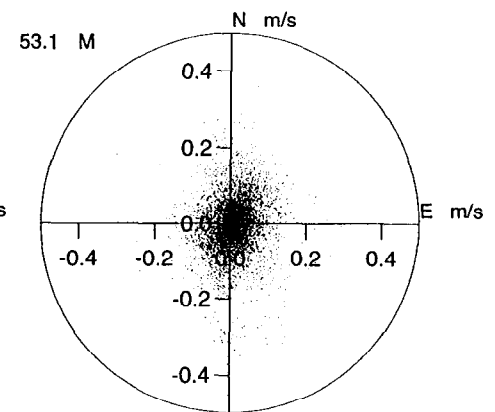
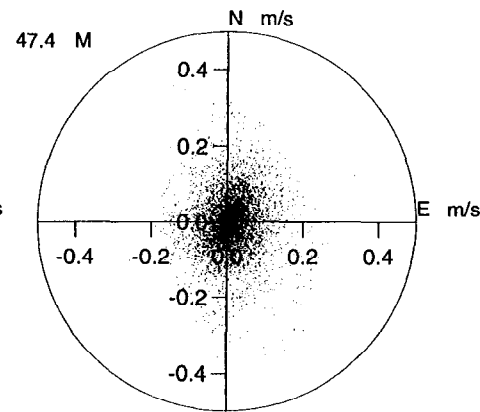
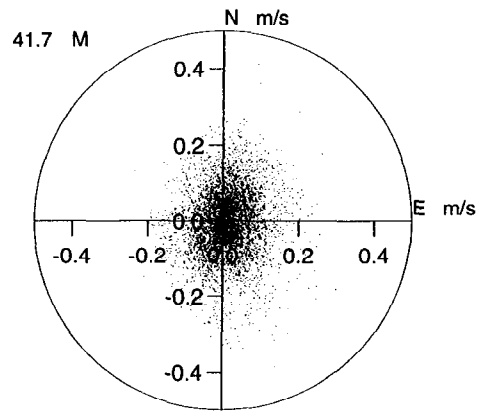
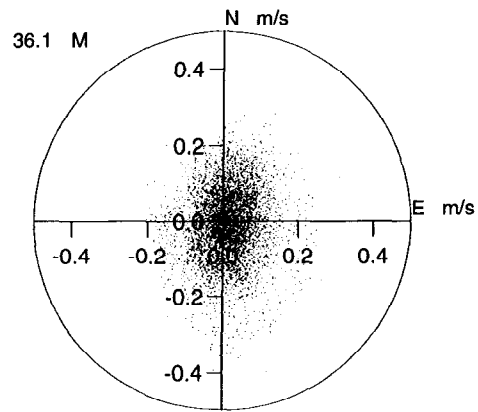


SCATTER PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

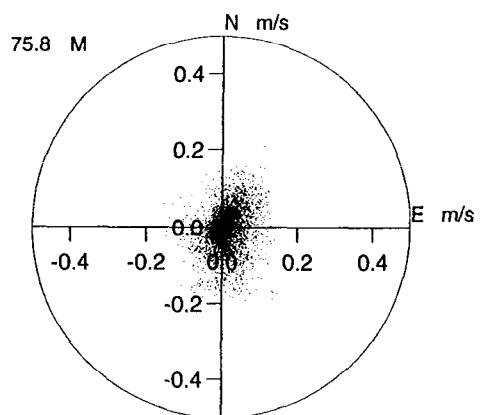
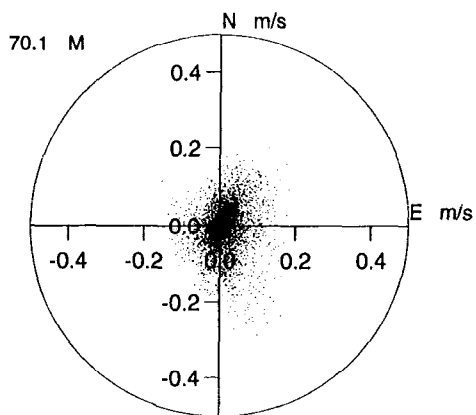
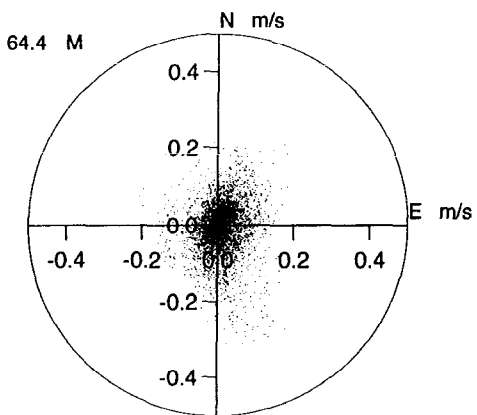
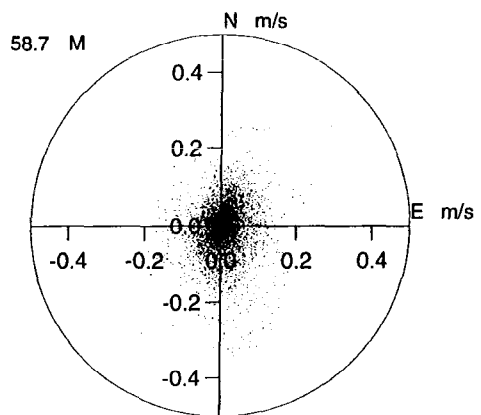
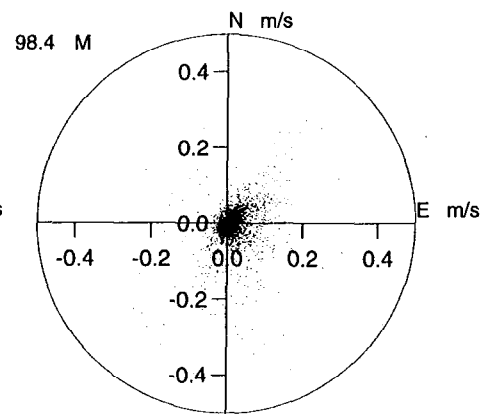
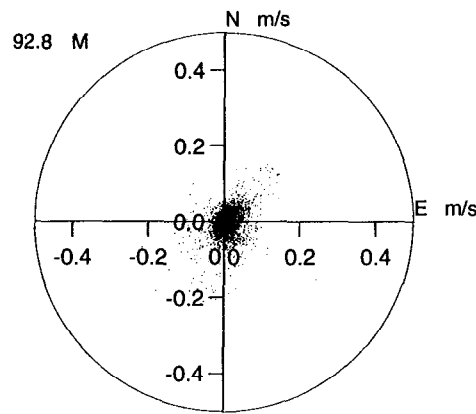
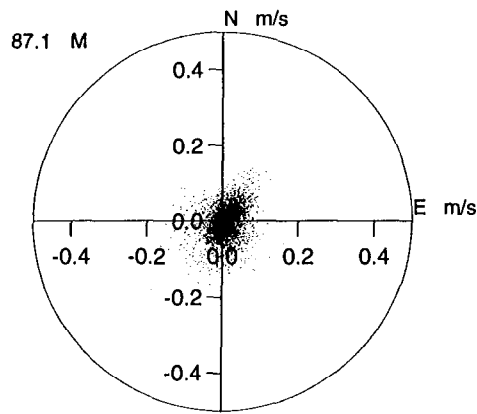
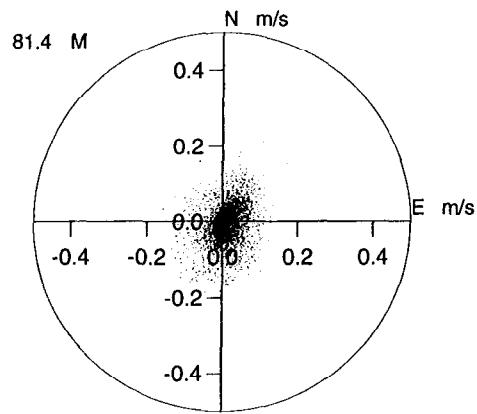


SCATTER PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

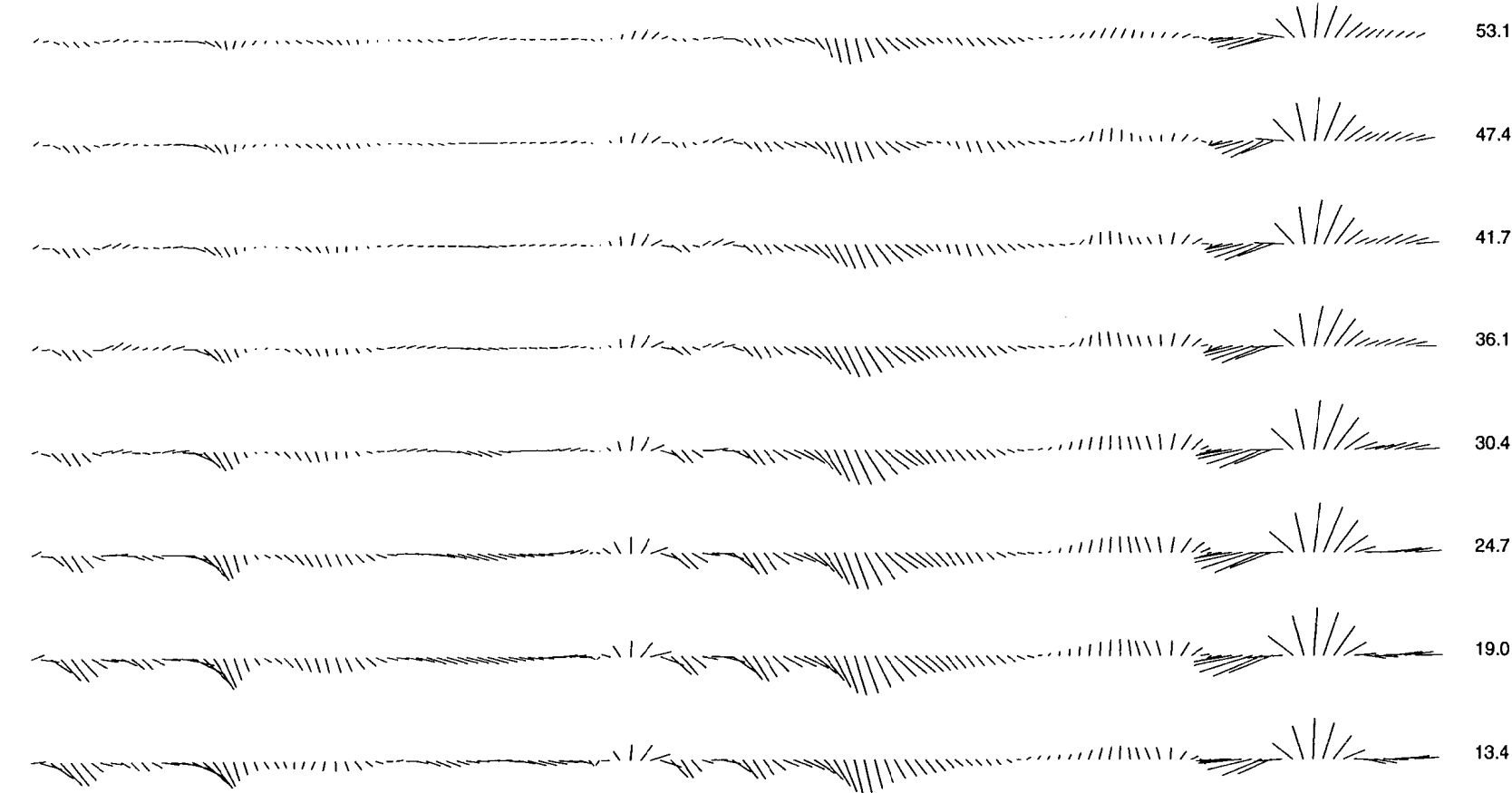
Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s

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17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

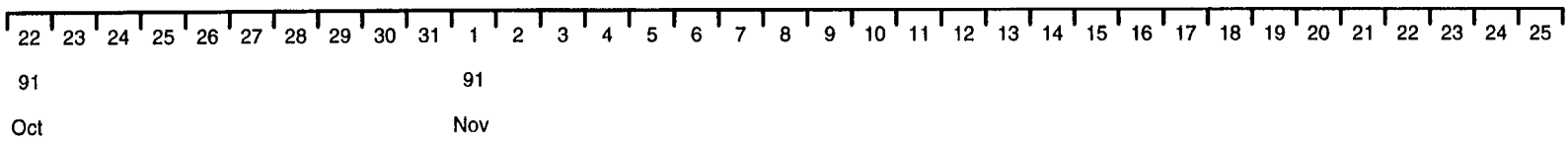
Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)



STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

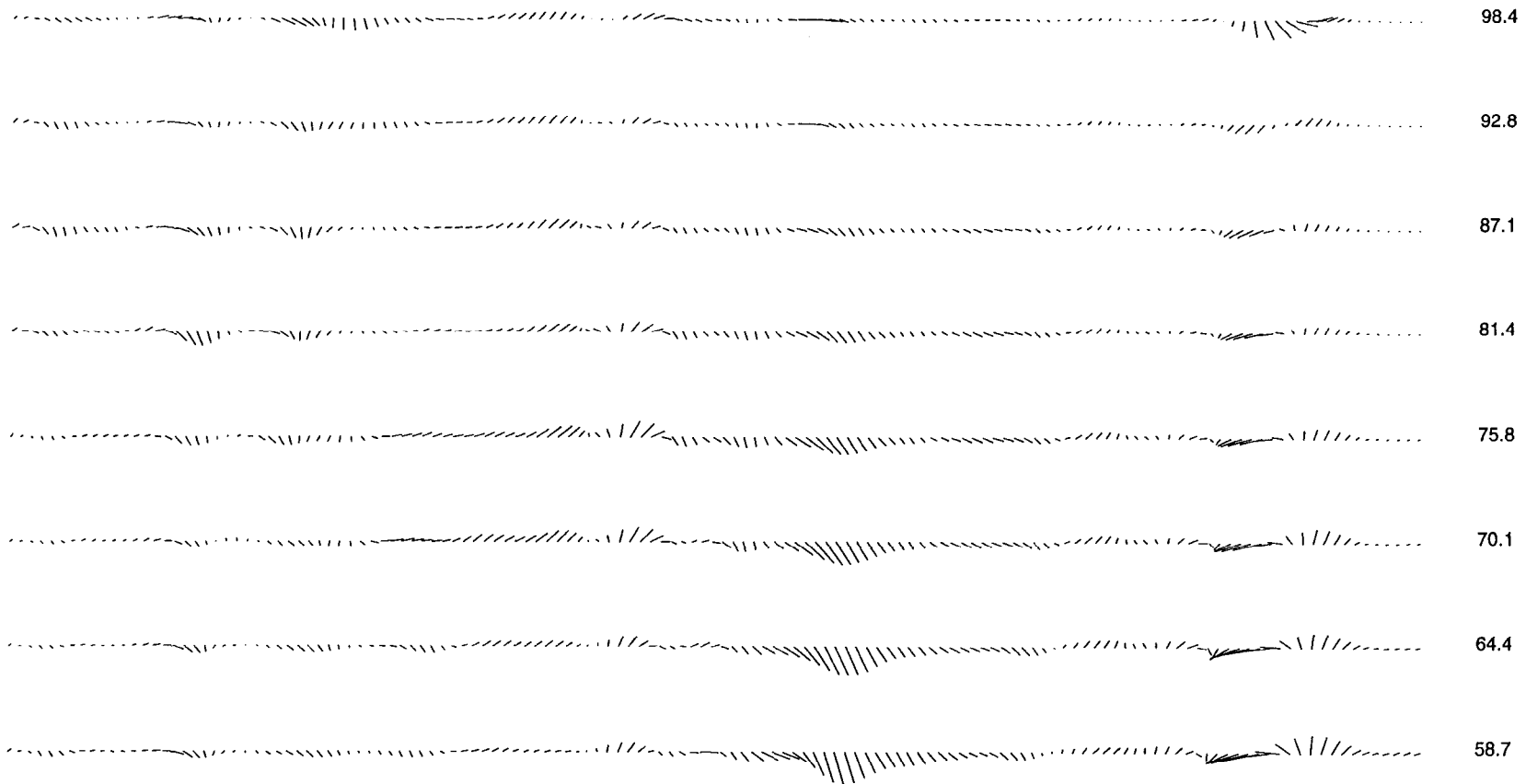
Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s

—



17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

91

91

Sep

Oct

STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

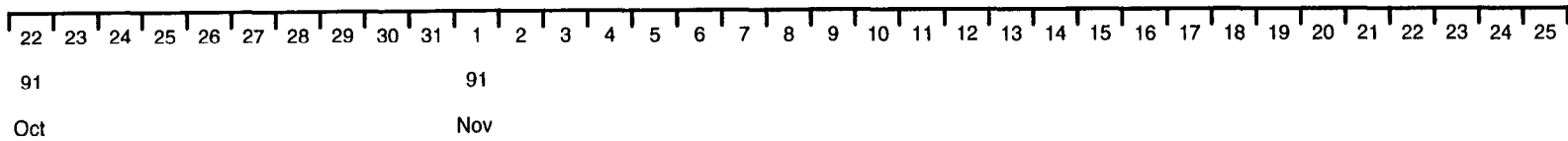
Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht

Filtered series

Scale 0.1 m/s



Bin Ht (m)



Statistics for dp0001.00514

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.024	123.6	0.0097	1.4	0.0039	91.4
2	19.0	0.029	121.9	0.0120	-0.5	0.0044	89.5
3	24.7	0.025	117.5	0.0117	2.7	0.0045	92.7
4	30.4	0.019	115.3	0.0101	4.5	0.0042	94.5
5	36.1	0.014	110.6	0.0080	4.9	0.0036	94.9
6	41.7	0.012	107.0	0.0066	5.9	0.0032	95.9
7	47.4	0.010	101.7	0.0053	5.0	0.0025	95.0
8	53.1	0.009	105.7	0.0042	7.5	0.0018	97.5
9	58.7	0.009	123.0	0.0036	10.0	0.0015	100.0
10	64.4	0.010	116.8	0.0033	8.1	0.0013	98.1
11	70.1	0.010	103.6	0.0024	9.7	0.0010	99.7
12	75.8	0.009	105.5	0.0020	14.6	0.0008	104.6
13	81.4	0.008	109.0	0.0016	19.0	0.0007	109.0
14	87.1	0.007	111.2	0.0011	24.1	0.0005	114.1
15	92.8	0.007	107.3	0.0008	27.8	0.0003	117.8
16	98.4	0.010	105.0	0.0011	24.3	0.0007	114.3

Statistics for dp0001.00514

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.026	120.2	0.0011	-58.9	0.0007	31.1
2	19.0	0.031	118.7	0.0014	-58.0	0.0010	32.0
3	24.7	0.027	113.3	0.0012	-61.7	0.0009	28.3
4	30.4	0.021	109.7	0.0010	-53.0	0.0009	37.0
5	36.1	0.016	104.2	0.0007	-86.1	0.0006	3.9
6	41.7	0.013	101.1	0.0006	69.5	0.0005	159.5
7	47.4	0.012	97.1	0.0005	41.8	0.0004	131.8
8	53.1	0.010	102.5	0.0004	53.7	0.0004	143.7
9	58.7	0.010	122.1	0.0004	-67.7	0.0003	22.3
10	64.4	0.011	116.2	0.0004	-57.3	0.0003	32.7
11	70.1	0.011	103.3	0.0003	-65.9	0.0002	24.1
12	75.8	0.010	105.9	0.0002	85.9	0.0002	175.9
13	81.4	0.009	109.7	0.0002	83.9	0.0001	173.9
14	87.1	0.008	113.5	0.0001	67.3	0.0001	157.3
15	92.8	0.007	108.7	0.0001	44.2	0.0000	134.2
16	98.4	0.011	105.7	0.0001	-78.7	0.0001	11.3

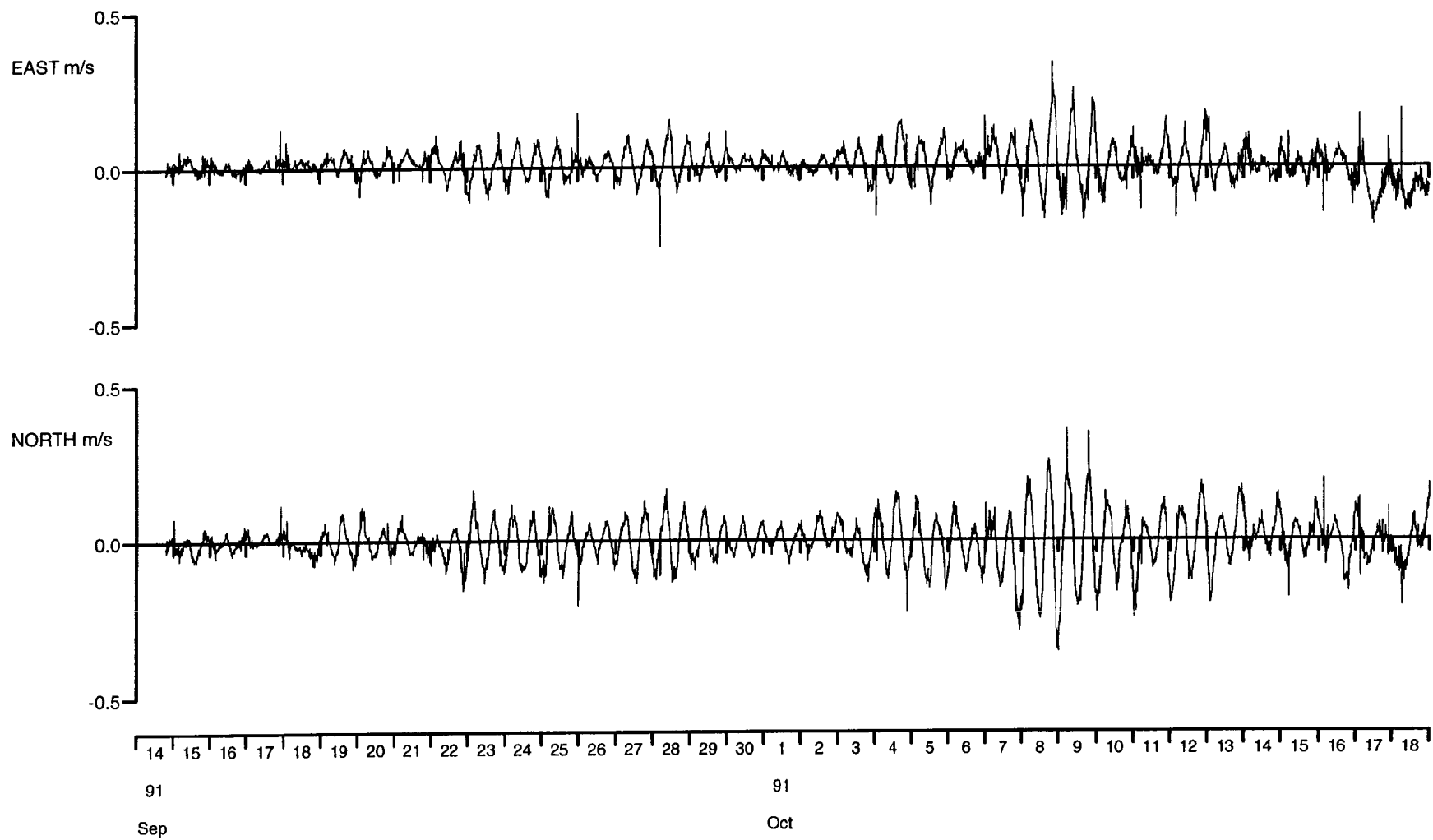
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



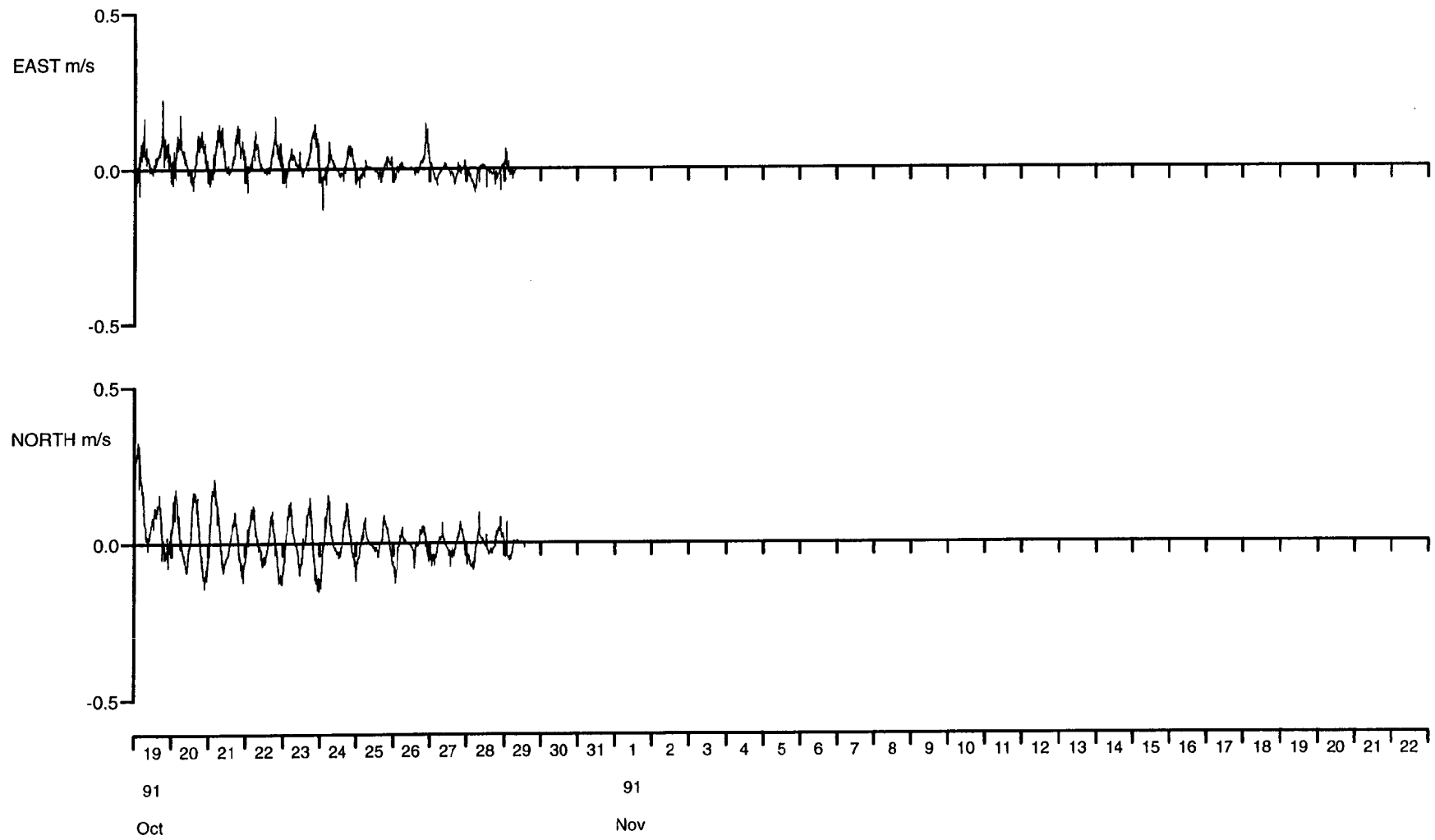
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



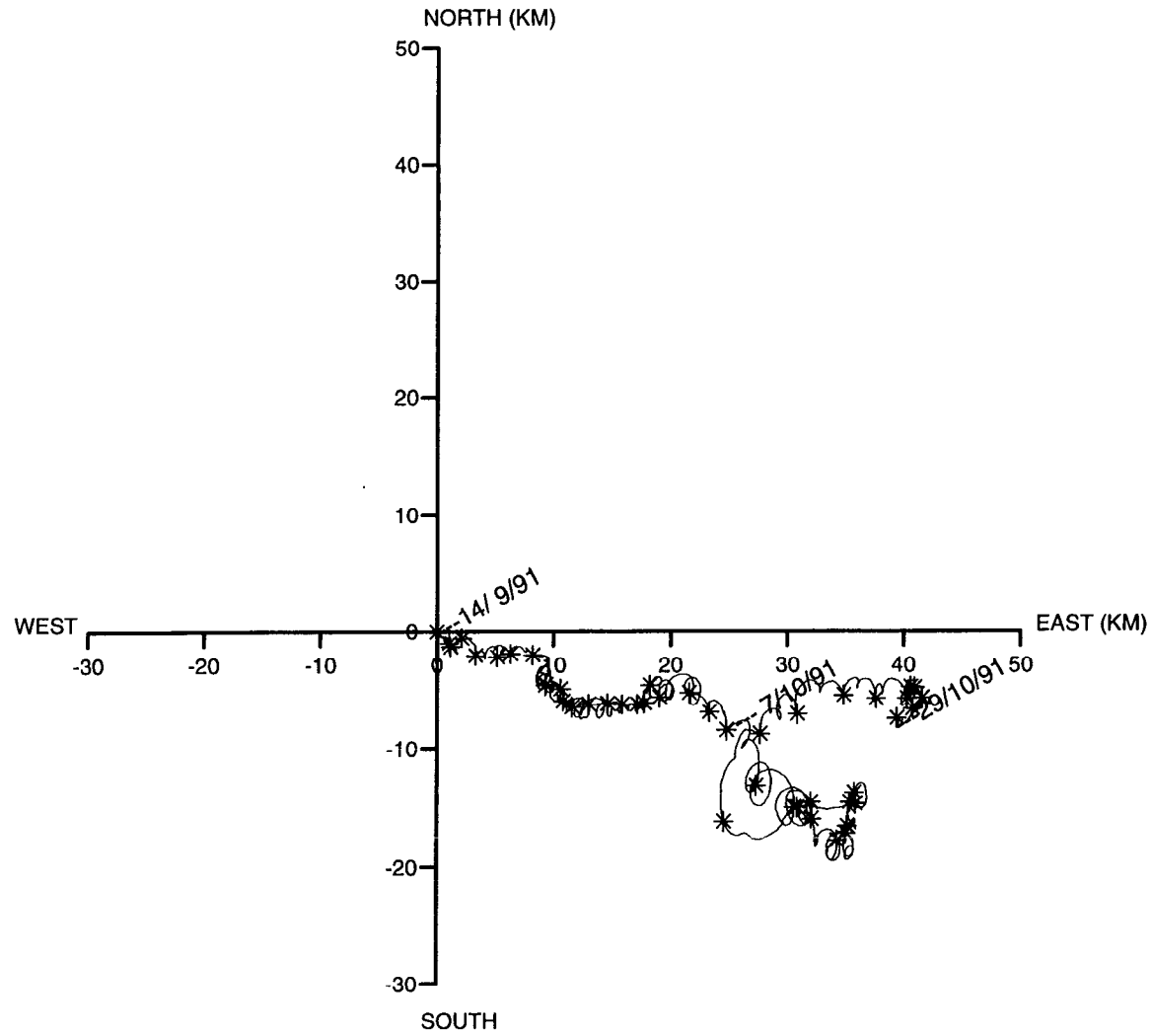
VECTOR PLOT

Meter no. 0001 Rig no. 00514 Depth of water(m) 117.0

Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00

Position 59 53.58N 01 00.31E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0001.00514s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	0.0102	0.25338342E-02	0.50337207E-01
Northings	-0.0021	0.52954853E-02	0.72770089E-01
Speed	0.0715	0.28219863E-02	0.53122371E-01
Vector mean speed	0.0104		
Vector Mean Direction	101.7		

Maximum ten values

Eastings					Northings				
0.338	0.265	0.252	0.242	0.235	0.356	0.346	0.324	0.314	0.310
0.232	0.225	0.224	0.223	0.223	0.305	0.288	0.286	0.285	0.281

Minimum ten values

Eastings					Northings				
-0.165	-0.166	-0.167	-0.168	-0.168	-0.292	-0.297	-0.298	-0.306	-0.311
-0.171	-0.174	-0.178	-0.188	-0.255	-0.316	-0.331	-0.339	-0.352	-0.357

Maximum speeds

0.384	0.372	0.367	0.364	0.359	0.358	0.351	0.346	0.345	0.336
0.334	0.324	0.317	0.314	0.312	0.308	0.305	0.298	0.297	0.294
0.294	0.293	0.292	0.288	0.288	0.288	0.285	0.284	0.284	0.282
0.281	0.280	0.277	0.277	0.276	0.275	0.275	0.275	0.274	0.274
0.273	0.273	0.273	0.272	0.271	0.270	0.270	0.269	0.267	0.266
0.266	0.265	0.263	0.261	0.260	0.259	0.259	0.257	0.257	0.257
0.256	0.256	0.255	0.253	0.253	0.252	0.252	0.251	0.251	0.251
0.248	0.248	0.247	0.247	0.244	0.244	0.241	0.241	0.240	0.240
0.240	0.239	0.239	0.238	0.237	0.236	0.236	0.235	0.235	0.234
0.233	0.233	0.232	0.232	0.230	0.229	0.229	0.229	0.229	0.229

Variance ellipse statistics

Maximum variance	0.5316E-02	Direction	5.0
Minimum variance	0.2513E-02	Direction	95.0
Total variance	0.7829E-02	Ratio of variances	0.4727E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	10.6		
Average direction. maxdir +PI/2 to maxdir -PI/2	173.4		

Statistics for dp0001.00514s7f

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	0.0116	0.45984177E-03	0.21443922E-01
Northings	-0.0014	0.47167510E-03	0.21718083E-01
Speed	0.0262	0.38038520E-03	0.19503467E-01
Vector mean speed	0.0117		
Vector Mean Direction	97.1		

Maximum ten values

Eastings					Northings				
0.050	0.049	0.047	0.046	0.043	0.106	0.092	0.091	0.063	0.052
0.041	0.040	0.039	0.038	0.036	0.036	0.032	0.031	0.027	0.024

Minimum ten values

Eastings					Northings				
-0.008	-0.020	-0.031	-0.050	-0.053	-0.028	-0.029	-0.032	-0.032	-0.040
-0.068	-0.070	-0.076	-0.078	-0.079	-0.040	-0.040	-0.047	-0.049	-0.051

Maximum speeds

0.107	0.100	0.094	0.089	0.084	0.083	0.081	0.072	0.071	0.070
0.060	0.054	0.053	0.053	0.049	0.049	0.047	0.047	0.047	0.045
0.044	0.044	0.043	0.042	0.042	0.041	0.040	0.039	0.038	0.035
0.034	0.034	0.033	0.032	0.032	0.031	0.031	0.031	0.030	0.030
0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.028	0.028	0.028
0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.025	0.025	0.025
0.025	0.025	0.025	0.024	0.024	0.024	0.023	0.023	0.023	0.023
0.023	0.023	0.021	0.021	0.021	0.020	0.020	0.019	0.019	0.019
0.019	0.019	0.019	0.019	0.019	0.019	0.018	0.018	0.018	0.018
0.018	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.017	0.017

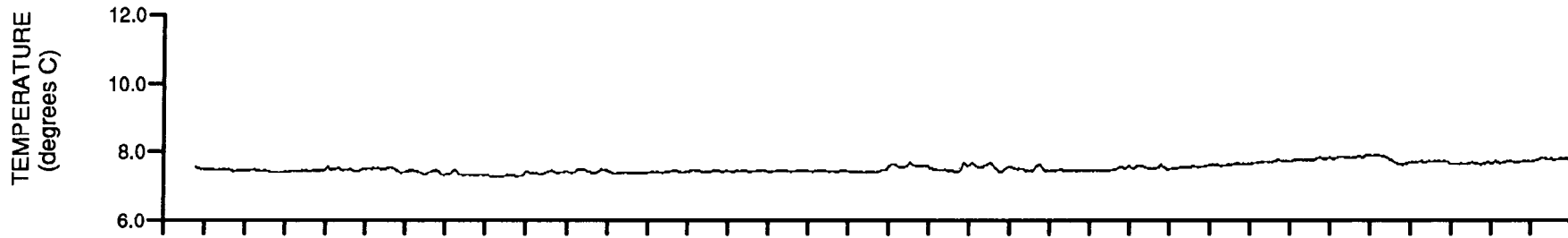
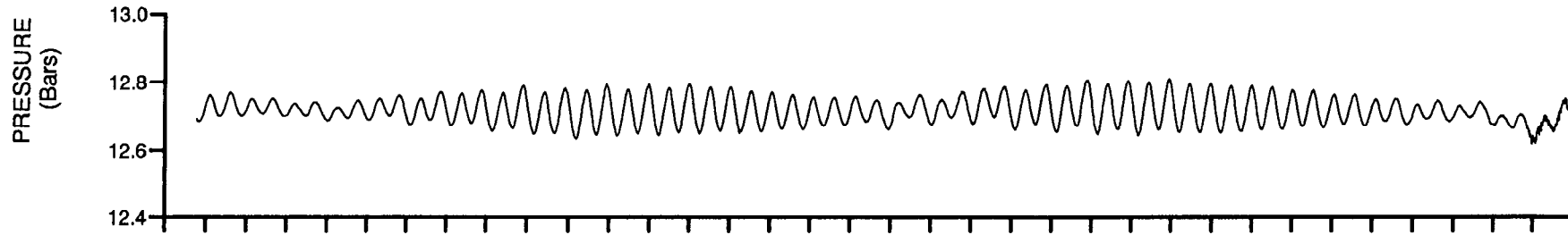
Variance ellipse statistics

Maximum variance	0.5188E-03	Direction	41.8
Minimum variance	0.4127E-03	Direction	131.8
Total variance	0.9315E-03	Ratio of variances	0.7956E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	35.6		
Average direction. maxdir +PI/2 to maxdir -PI/2	139.0		

Meter information details for 0445

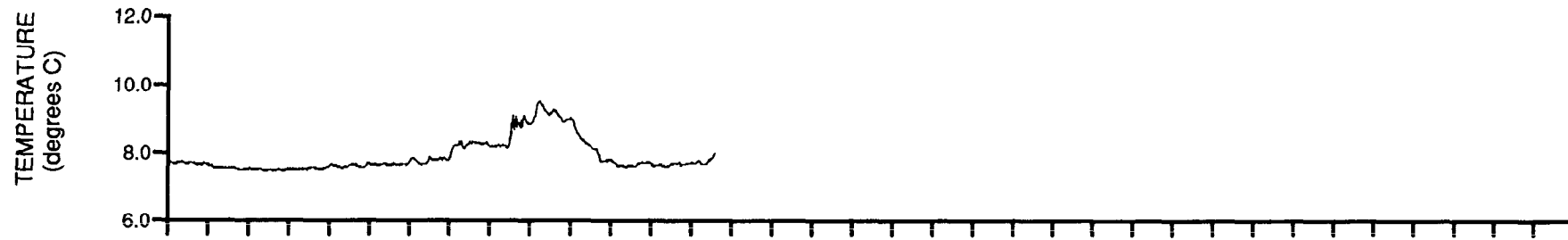
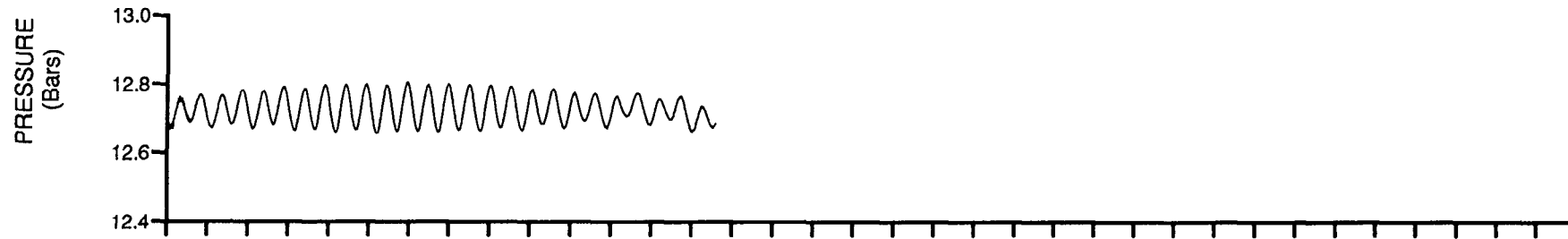
Rig No	:	00514
Meter No	:	0445
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Position of meter on rig	:	A
Meter type	:	WR
Meter started	:	14-SEP-91 17:50:00
Meter stopped	:	05-NOV-91 10:41:14
Period switched on	:	51.7 days
Period of good data	:	47.8 days
Total number of scans	:	6883
Timing error	:	74 seconds slow
Comments	:	Good record obtained

Meter no. 0445 Rig no. 00514 Depth of water(m) 117.0
Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00
Position 59 53.58N 01 00.31E Meter Height(m) 0.8



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
91 91
Sep Oct

Meter no. 0445 Rig no. 00514 Depth of water(m) 117.0
Start/End 1991/09/14 AT 18:44:00 1991/11/01 AT 13:56:00
Position 59 53.58N 01 00.31E Meter Height(m) 0.8



19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
91 91
Oct Nov

Rig information details for 00508

Position Latitude	:	59 53.41N
Position Longitude	:	01 00.88E
Water depth	:	118.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	IB
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 11:59:00
Rig recovered on	:	16-SEP-91 07:46:00
Period of deployment	:	8.8 days
Comments	:	Launch and recovery successful

Meter information details for 1258

Rig No	:	00508
Meter No	:	1258
Recording interval	:	600.0 seconds
Meter depth	:	5.0 m
Position of meter on rig	:	T
Meter type	:	S4
Period of good data	:	0.0 days
Comments	:	No data returned

Meter information details for 1263

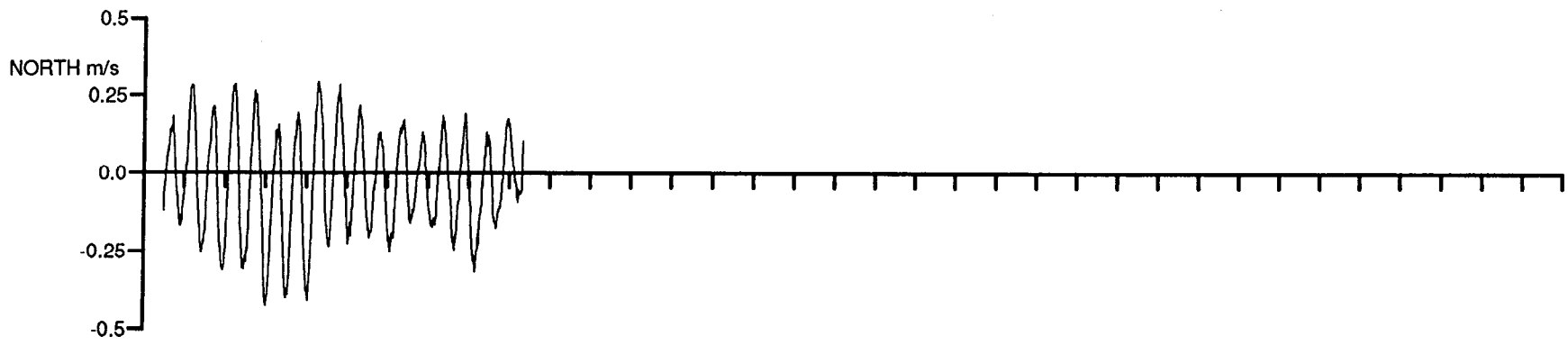
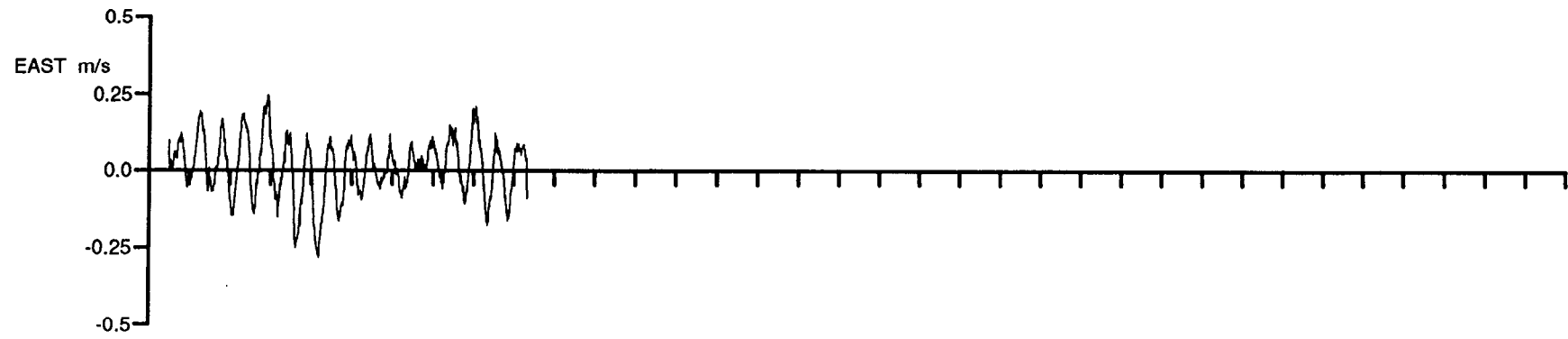
Rig No	:	00508
Meter No	:	1263
Recording interval	:	600.0 seconds
Meter depth	:	15.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	07-SEP-91 10:50:00
Meter stopped	:	16-SEP-91 07:40:00
Period switched on	:	8.9 days
Period of good data	:	8.8 days
Total number of scans	:	1271
Timing error	:	None
Comments	:	Good record obtained

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1263 Rig no. 00508 Depth of water(m) 118.0

Start/End 1991/09/07 AT 11:59:00 1991/09/16 AT 07:46:00

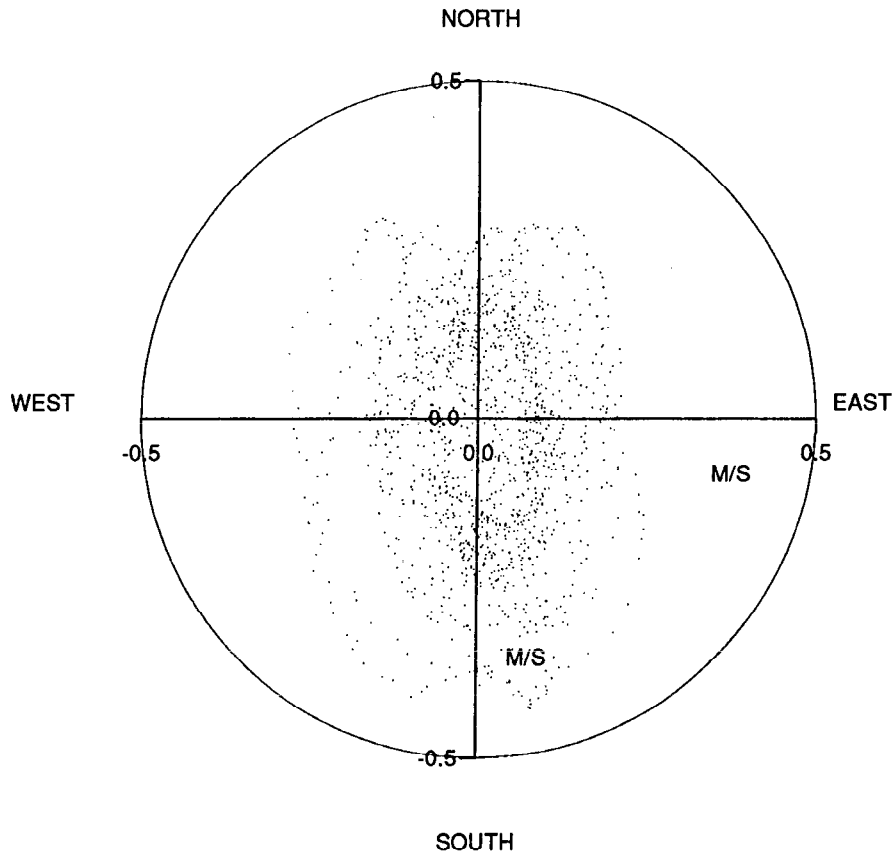
Position 59 53.41N 01 00.88E Meter Depth(m) 15.0



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
91 91
Sep Oct

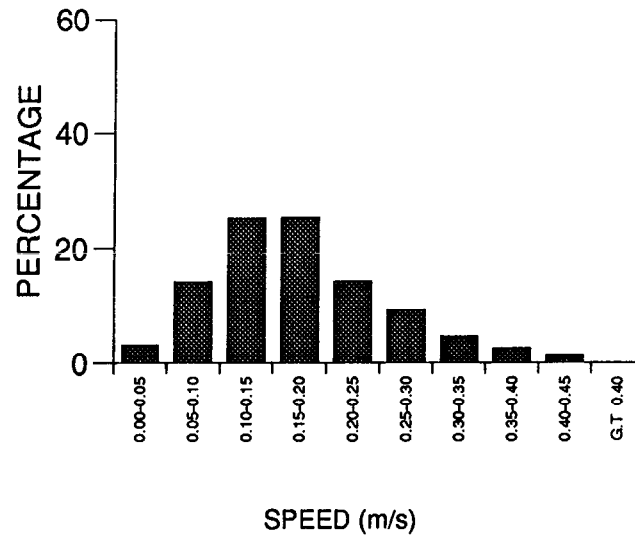
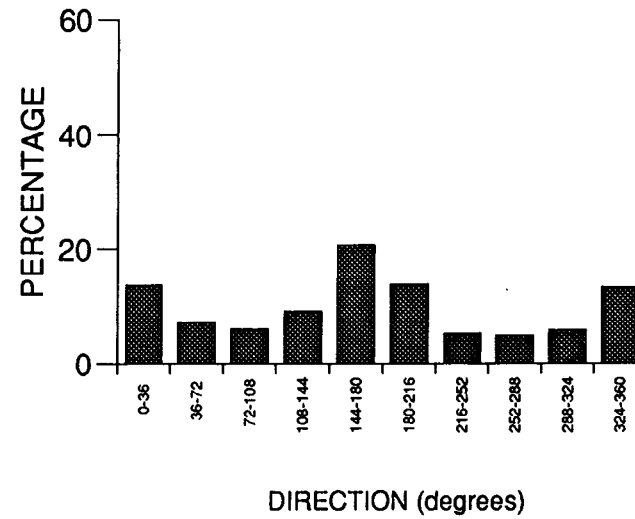
SCATTER PLOT

Meter no. 1263 Rig no. 00508 Depth of water(m) 118.0
 Start/End 1991/09/07 AT 11:59:00 1991/09/16 AT 07:46:00
 Position 59 53.41N 01 00.88E Meter Depth(m) 15.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1263 Rig no. 00508 Depth of water(m) 118.0
 Start/End 1991/09/07 AT 11:59:00 1991/09/16 AT 07:46:00
 Position 59 53.41N 01 00.88E Meter Depth(m) 15.0

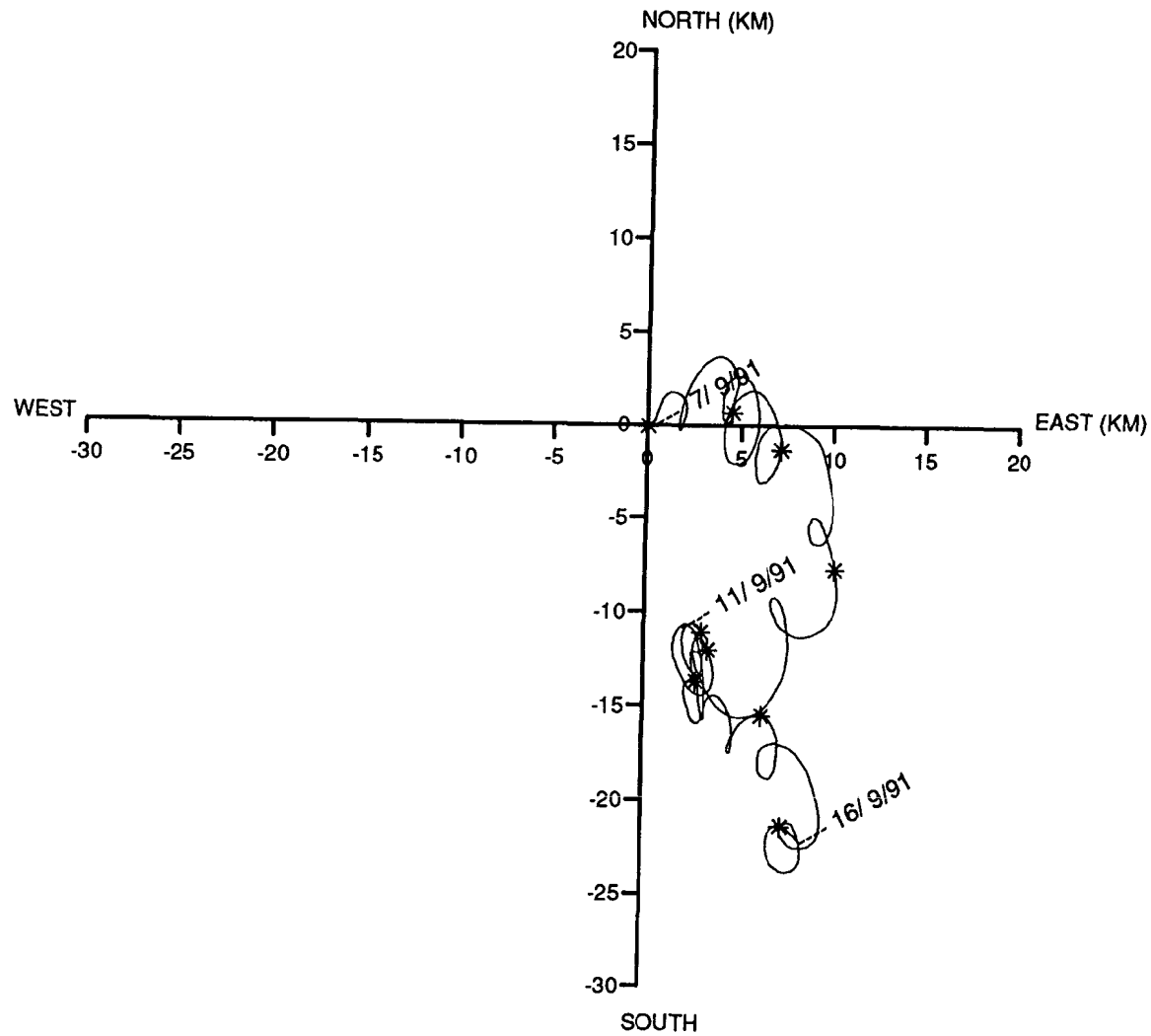


VECTOR PLOT

Meter no. 1263 Rig no. 00508 Depth of water(m) 118.0

Start/End 1991/09/07 AT 11:59:00 1991/09/16 AT 07:46:00

Position 59 53.41N 01 00.88E Meter Depth(m) 15.0



Statistics for s41263b.00508s

	Mean	Variance	Standard deviation
Eastings	0.0110	0.89199999E-02	0.94445750E-01
Northings	-0.0291	0.27519211E-01	0.16588914E+00
Speed	0.1750	0.67410027E-02	0.82103603E-01
Vector mean speed	0.0311		
Vector Mean Direction	159.2		

Maximum ten values

Eastings					Northings				
0.245	0.245	0.242	0.239	0.238	0.296	0.294	0.291	0.289	0.287
0.238	0.233	0.223	0.214	0.210	0.285	0.283	0.283	0.282	0.282

Minimum ten values

Eastings					Northings				
-0.253	-0.254	-0.256	-0.264	-0.267	-0.402	-0.406	-0.407	-0.407	-0.409
-0.268	-0.274	-0.275	-0.276	-0.280	-0.411	-0.414	-0.420	-0.425	-0.426

Maximum speeds

0.434	0.432	0.428	0.422	0.421	0.420	0.419	0.413	0.413	0.410
0.409	0.407	0.407	0.405	0.405	0.404	0.401	0.399	0.398	0.393
0.392	0.392	0.391	0.390	0.389	0.388	0.387	0.386	0.385	0.382
0.382	0.376	0.375	0.375	0.374	0.374	0.372	0.372	0.372	0.371
0.370	0.369	0.368	0.367	0.366	0.362	0.360	0.357	0.353	0.351
0.347	0.346	0.345	0.344	0.340	0.333	0.331	0.329	0.328	0.328
0.328	0.327	0.327	0.326	0.326	0.326	0.325	0.325	0.323	0.322
0.321	0.317	0.317	0.317	0.317	0.316	0.316	0.315	0.315	0.314
0.313	0.313	0.312	0.312	0.312	0.311	0.310	0.310	0.310	0.308
0.308	0.308	0.307	0.307	0.307	0.306	0.306	0.306	0.306	0.305

Variance ellipse statistics

Maximum variance	0.2756E-01	Direction	-2.8
Minimum variance	0.8875E-02	Direction	87.2
Total variance	0.3644E-01	Ratio of variances	0.3220E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			5.6
Average direction. maxdir +PI/2 to maxdir -PI/2			174.7

Statistics for s41263b.00508sf

	Mean	Variance	Standard deviation
Eastings	-0.0252	0.12188073E-02	0.34911420E-01
Northings	-0.0305	0.21399881E-02	0.46260003E-01
Speed	0.0564	0.15980456E-02	0.39975561E-01
Vector mean speed	0.0396		
Vector Mean Direction	-140.4		

Maximum ten values

Eastings					Northings				
0.011	0.009	0.002	0.001	0.000	0.028	0.023	0.012	0.003	-0.019
-0.002	-0.023	-0.026	-0.053	-0.064	-0.022	-0.032	-0.034	-0.038	-0.065

Minimum ten values

Eastings					Northings				
0.002	0.001	0.000	-0.002	-0.023	0.012	0.003	-0.019	-0.022	-0.032
-0.026	-0.053	-0.064	-0.077	-0.083	-0.034	-0.038	-0.065	-0.102	-0.119

Maximum speeds

0.122	0.120	0.105	0.080	0.054	0.038	0.036	0.034	0.032	0.023
0.021	0.012								

Variance ellipse statistics

Maximum variance	0.2397E-02	Direction	25.0
Minimum variance	0.9617E-03	Direction	115.0
Variance	0.3359E-02	Ratio of variances	0.4012E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-12.8
Average direction. maxdir +PI/2 to maxdir -PI/2			182.1

Rig information details for 00515

Position Latitude	:	59 53.43N
Position Longitude	:	01 01.05E
Water depth	:	115.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	LOST
Site name identification	:	IB2
Rig deployed on	:	16-SEP-91 09:12:00
Comments	:	Lost

Rig information details for 00509

Position Latitude	:	59 53.55N
Position Longitude	:	01 00.07E
Water depth	:	116.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	IC
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 09:32:00
Rig recovered on	:	08-NOV-91 01:30:00
Period of deployment	:	61.7 days
Comments	:	Launch and recovery successful

00509

Total var:

00509

Meter information details for 1264

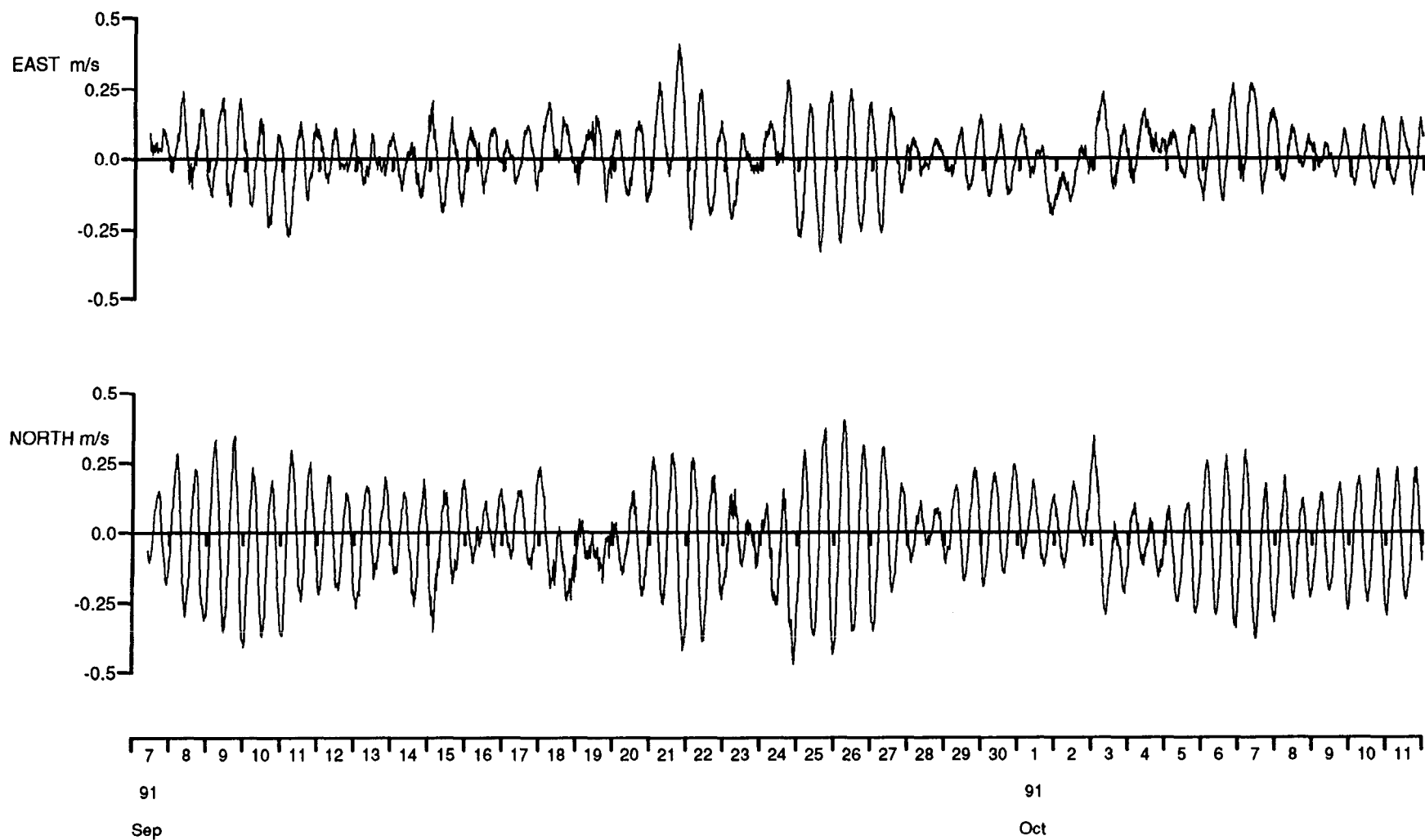
Rig No	:	00509
Meter No	:	1264
Recording interval	:	600.0 seconds
Meter height from bottom	:	85.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	07-SEP-91 07:20:00
Time of last valid scan	:	01-NOV-91 08:12:00
Period of good data	:	54.9 days short record
Total number of scans	:	7912
Timing error	:	120 seconds slow
Comments	:	Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1264 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 85.0

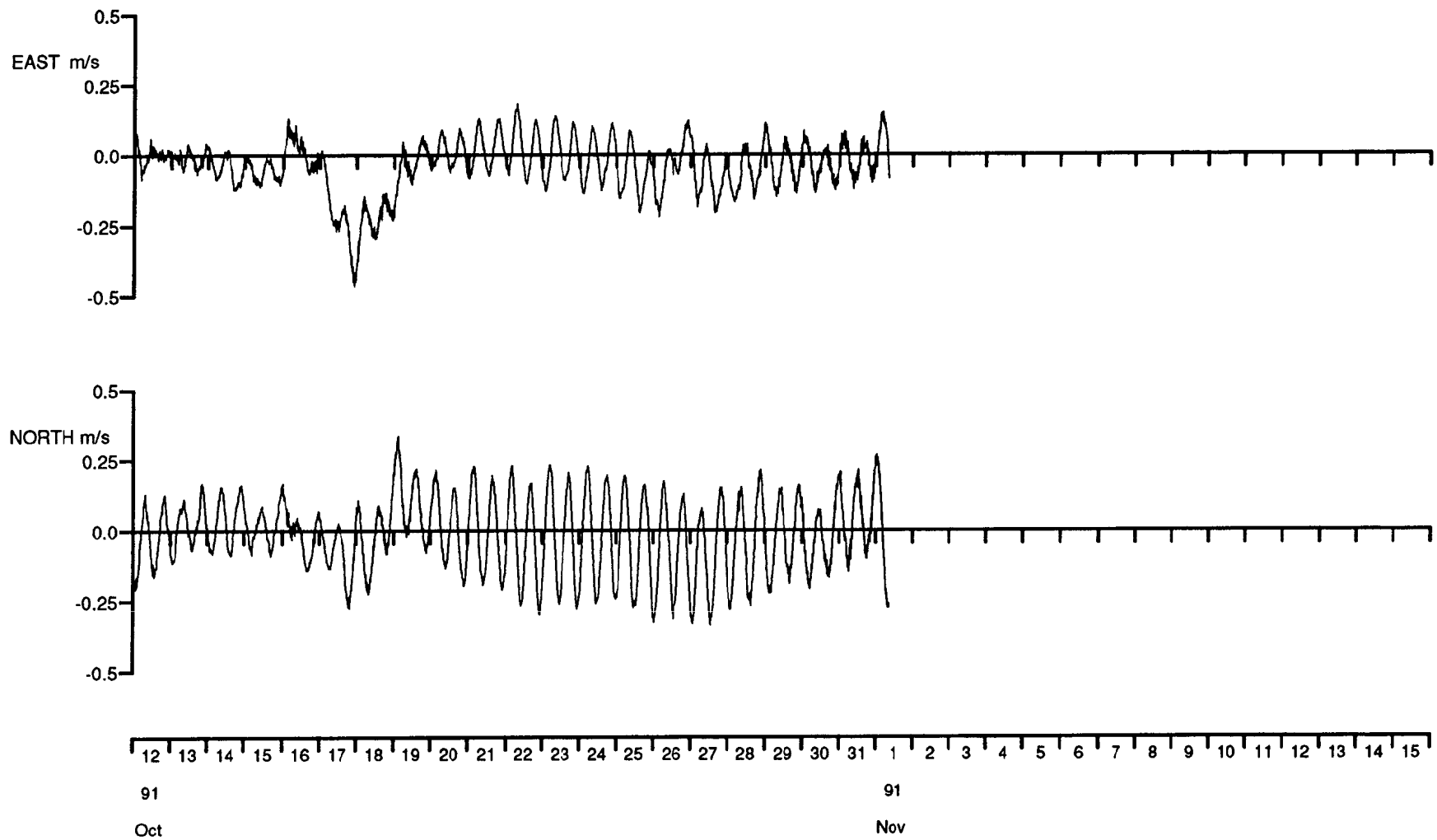


VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1264 Rig no. 00509 Depth of water(m) 116.0

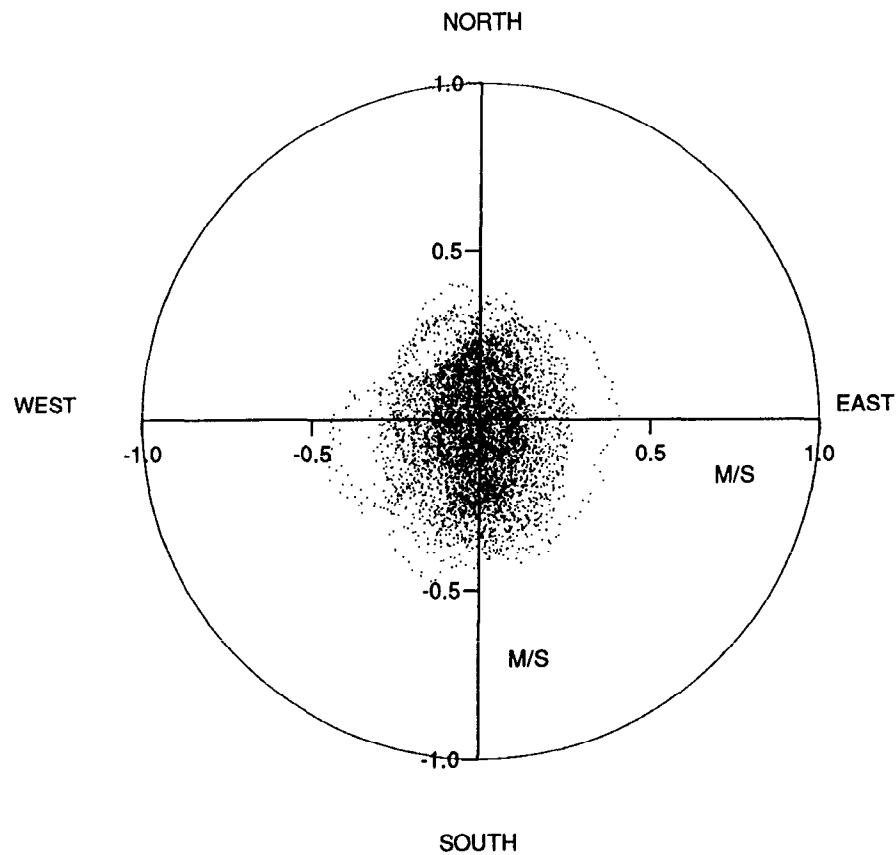
Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 85.0



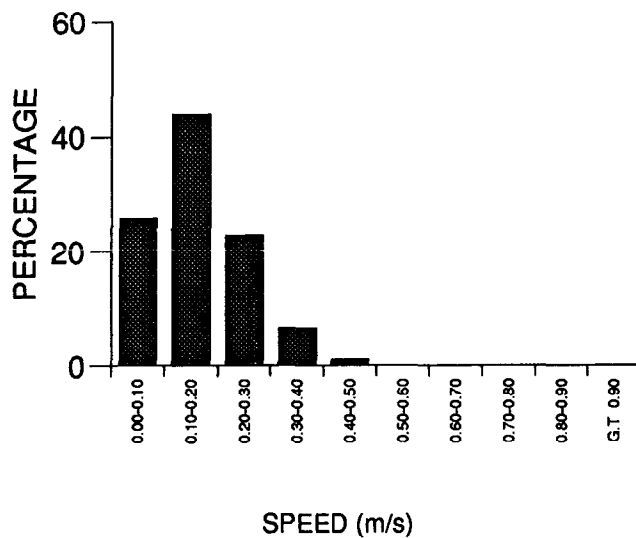
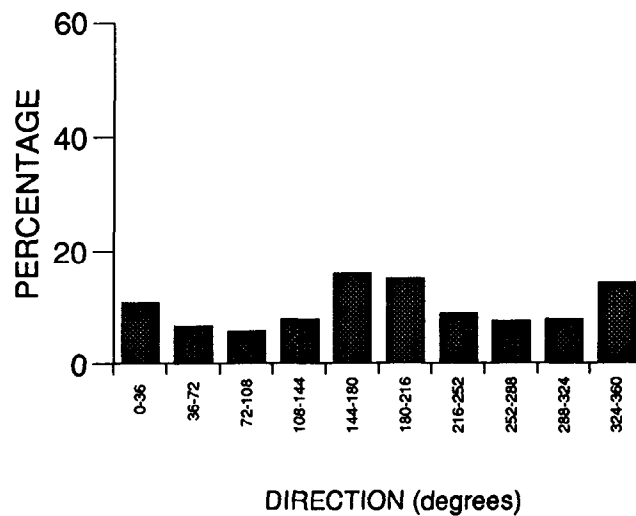
SCATTER PLOT

Meter no. 1264 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 85.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1264 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 85.0

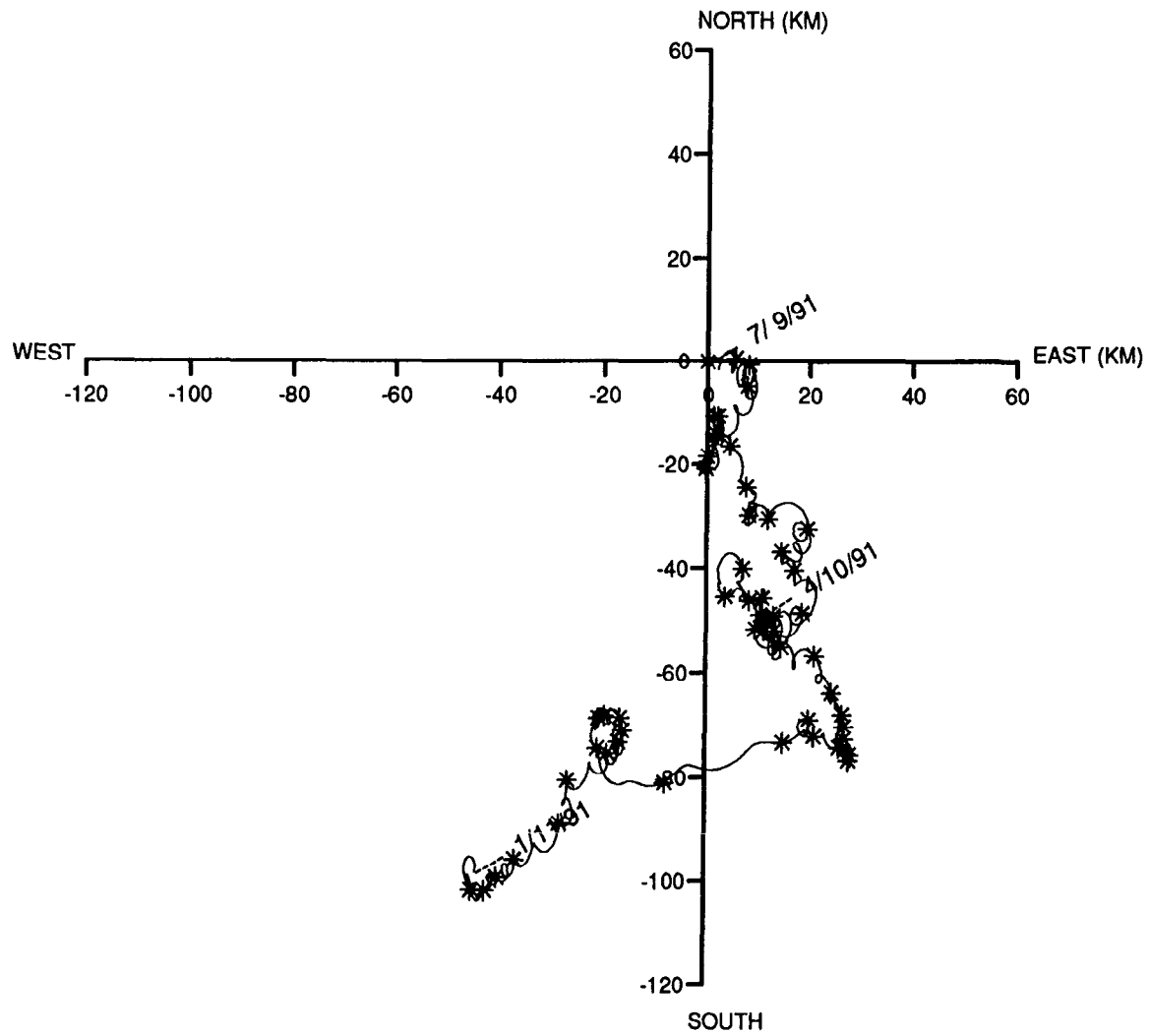


VECTOR PLOT

Meter no. 1264 Rig no. 00509 Depth of (m) 116.0

Start/End 1991/09/07 AT 09:32:00 199 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 85.0



Statistics for s41264t.00509s

	Mean	Variance	Standard deviation
Eastings	-0.0093	0.10744063E-01	0.10365357E+00
Northings	-0.0207	0.22838393E-01	0.15112376E+00
Speed	0.1630	0.75125396E-02	0.86674906E-01
Vector mean speed	0.0227		
Vector Mean Direction	-155.8		

Maximum ten values

Eastings					Northings				
0.407	0.403	0.399	0.395	0.387	0.399	0.398	0.397	0.393	0.392
0.385	0.378	0.373	0.366	0.361	0.379	0.375	0.372	0.371	0.364

Minimum ten values

Eastings					Northings				
-0.435	-0.438	-0.438	-0.442	-0.443	-0.426	-0.429	-0.432	-0.436	-0.441
-0.446	-0.447	-0.448	-0.450	-0.464	-0.445	-0.449	-0.459	-0.469	-0.472

Maximum speeds

0.494	0.490	0.487	0.485	0.482	0.480	0.476	0.472	0.470	0.467
0.463	0.463	0.461	0.460	0.458	0.456	0.455	0.452	0.450	0.450
0.446	0.443	0.442	0.440	0.439	0.438	0.438	0.437	0.436	0.436
0.436	0.435	0.435	0.434	0.431	0.430	0.429	0.429	0.428	0.428
0.427	0.423	0.423	0.423	0.421	0.420	0.420	0.420	0.418	0.417
0.416	0.414	0.414	0.413	0.412	0.412	0.412	0.412	0.411	0.410
0.410	0.410	0.410	0.409	0.407	0.407	0.407	0.406	0.406	0.405
0.405	0.405	0.404	0.404	0.404	0.404	0.402	0.402	0.402	0.402
0.401	0.401	0.401	0.400	0.400	0.399	0.399	0.399	0.399	0.398
0.398	0.397	0.397	0.396	0.396	0.395	0.395	0.394	0.394	0.394

Variance ellipse statistics

Maximum variance	0.2284E-01	Direction	0.0
Minimum variance	0.1074E-01	Direction	90.0
Total variance	0.3358E-01	Ratio of variances	0.4704E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-2.9
Average direction. maxdir +PI/2 to maxdir -PI/2			182.9

Statistics for s41264t.00509sf

	Mean	Variance	Standard deviation
Eastings	-0.0112	0.37765845E-02	0.61453924E-01
Northings	-0.0220	0.20557374E-02	0.45340244E-01
Speed	0.0618	0.25997185E-02	0.50987434E-01
Vector mean speed	0.0247		
Vector Mean Direction	-153.0		

Maximum ten values

Eastings					Northings				
0.124	0.114	0.102	0.097	0.093	0.131	0.122	0.110	0.079	0.072
0.085	0.077	0.075	0.061	0.061	0.067	0.055	0.053	0.050	0.047

Minimum ten values

Eastings					Northings				
-0.106	-0.108	-0.113	-0.147	-0.196	-0.099	-0.099	-0.099	-0.100	-0.103
-0.208	-0.262	-0.262	-0.295	-0.297	-0.105	-0.106	-0.107	-0.123	-0.124

Maximum speeds

0.314	0.308	0.279	0.266	0.210	0.209	0.167	0.151	0.137	0.132
0.131	0.130	0.127	0.126	0.123	0.122	0.118	0.117	0.116	0.116
0.114	0.113	0.112	0.111	0.111	0.110	0.110	0.110	0.107	0.107
0.106	0.106	0.105	0.101	0.099	0.099	0.098	0.097	0.096	0.095
0.094	0.091	0.089	0.088	0.087	0.087	0.086	0.085	0.085	0.083
0.083	0.081	0.080	0.079	0.079	0.078	0.078	0.078	0.077	0.076
0.074	0.074	0.074	0.073	0.073	0.072	0.072	0.072	0.071	0.071
0.069	0.069	0.068	0.068	0.065	0.064	0.062	0.062	0.062	0.061
0.061	0.059	0.057	0.057	0.056	0.055	0.054	0.054	0.052	0.052
0.052	0.051	0.050	0.049	0.049	0.049	0.048	0.048	0.048	0.048

Variance ellipse statistics

Maximum variance	0.3780E-02	Direction	87.5
Minimum variance	0.2052E-02	Direction	177.5
Total variance	0.5832E-02	Ratio of variances	0.5430E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			19.1
Average direction. maxdir +PI/2 to maxdir -PI/2			160.7

Meter information details for 9959

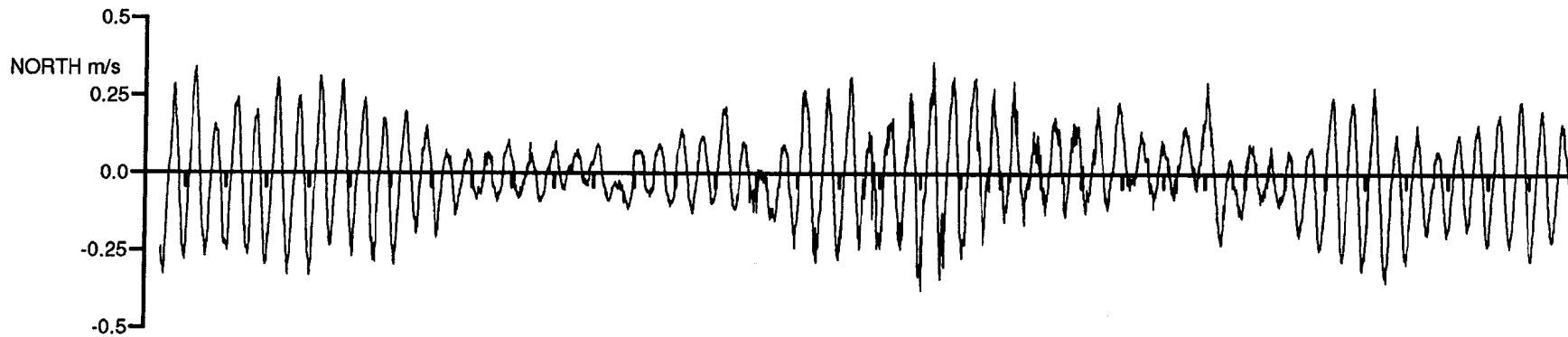
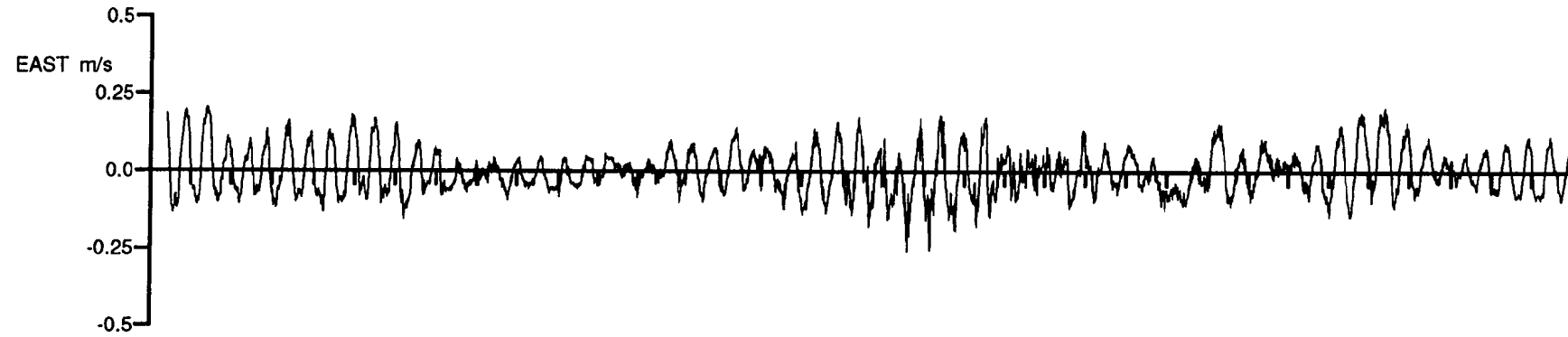
Rig No : 00509
Meter No : 9959
Recording interval : 600.0 seconds
Meter height from bottom : 70.0 m
Position of meter on rig : MT
Meter type : AS
Meter started : 07-SEP-91 07:20:00
Time of last valid scan : 26-OCT-91 11:00:00
Period of good data : 49.1 days short record
Total number of scans : 7065
Timing error : None
Comments : Spikes in temperature and conductivity
channels
Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 70.0



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11

91

91

Sep

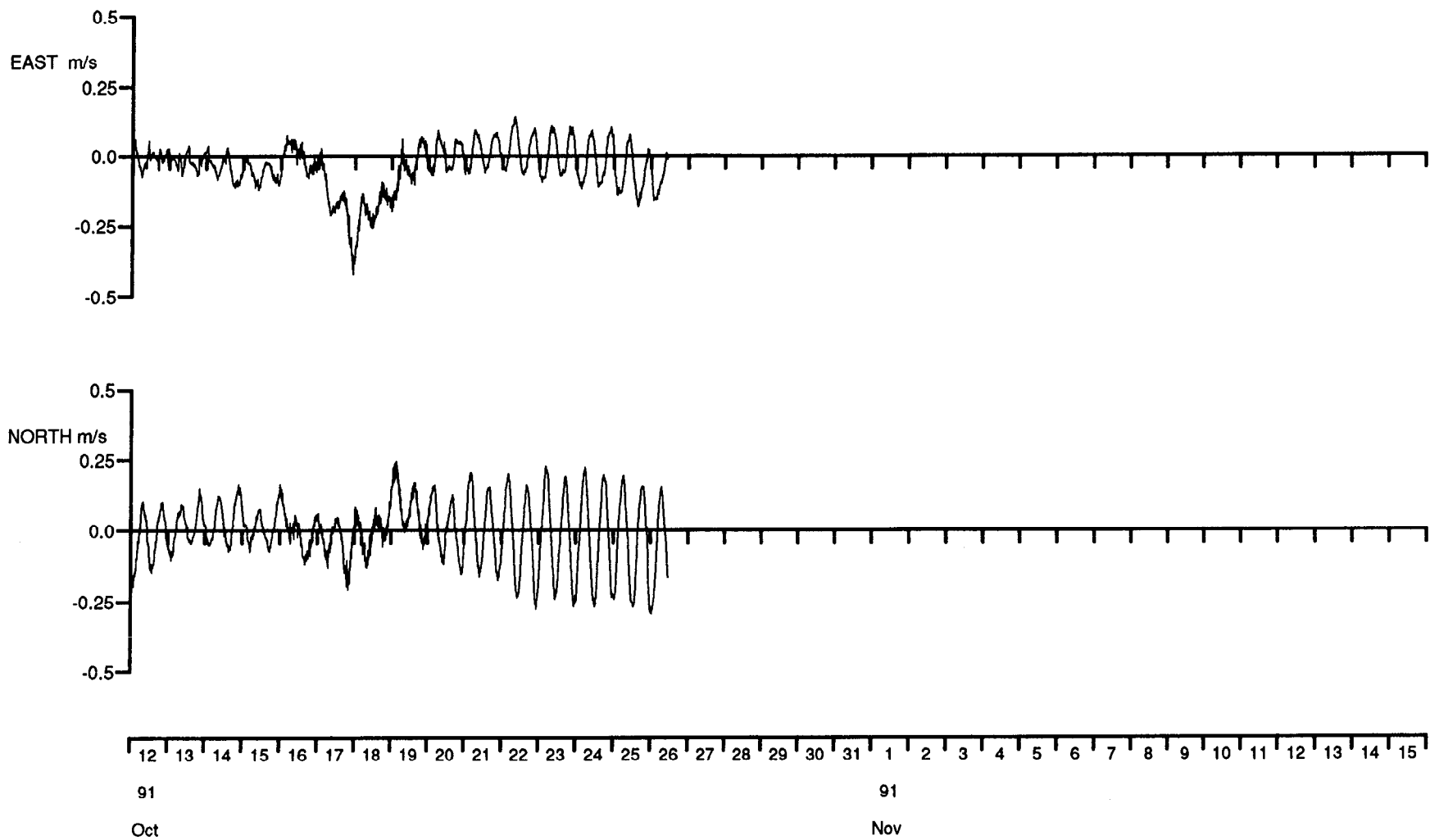
Oct

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0

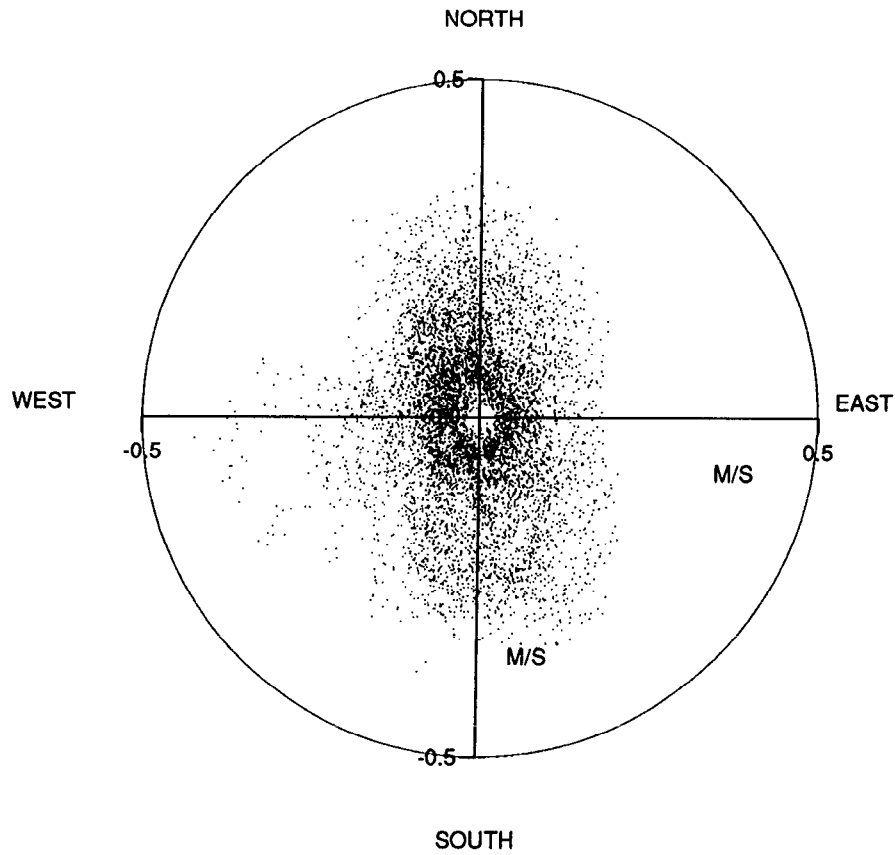
Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 70.0



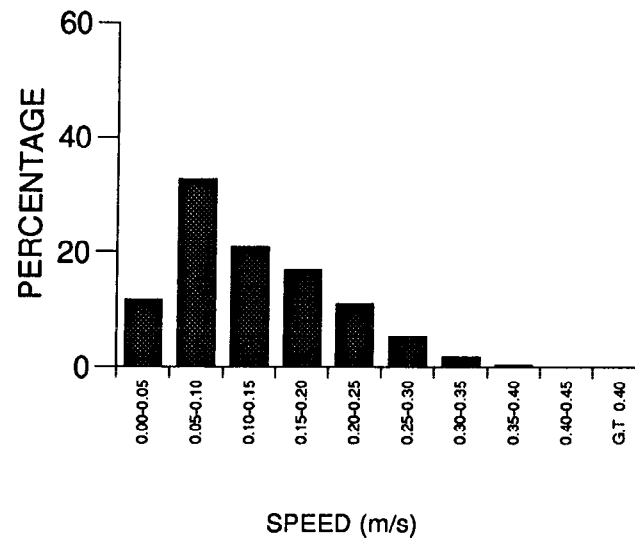
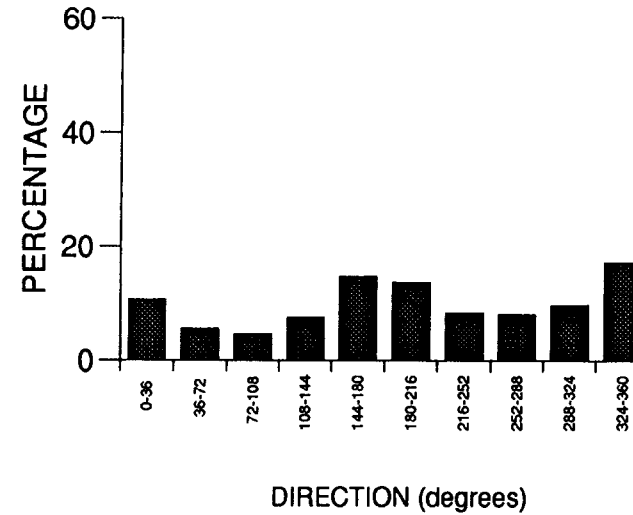
SCATTER PLOT

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 70.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 70.0

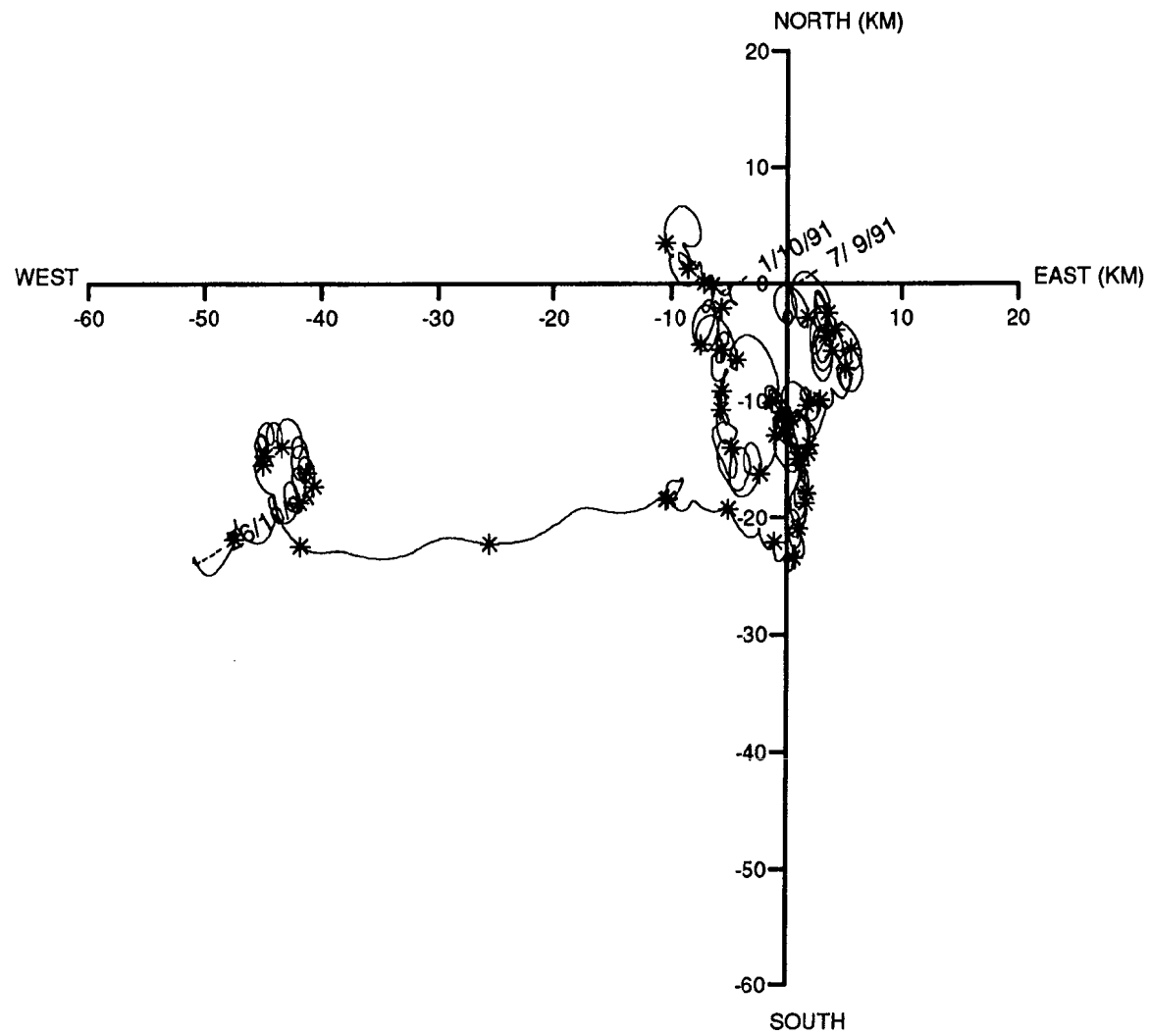


VECTOR PLOT

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 70.0



Statistics for as9959mt.00509s

	Mean	Variance	Standard deviation
Eastings	-0.0120	0.59757349E-02	0.77302881E-01
Northings	-0.0056	0.15932299E-01	0.12622321E+00
Speed	0.1293	0.53514536E-02	0.73153630E-01
Vector mean speed	0.0133		
Vector Mean Direction	-115.1		

Maximum ten values

Eastings					Northings				
0.205	0.204	0.202	0.199	0.198	0.359	0.347	0.342	0.340	0.338
0.195	0.194	0.194	0.194	0.192	0.334	0.328	0.327	0.321	0.316

Minimum ten values

Eastings					Northings				
-0.367	-0.367	-0.369	-0.370	-0.371	-0.331	-0.332	-0.333	-0.333	-0.333
-0.374	-0.380	-0.384	-0.394	-0.422	-0.334	-0.340	-0.350	-0.361	-0.376

Maximum speeds

0.424	0.397	0.392	0.386	0.386	0.380	0.377	0.377	0.374	0.374
0.374	0.371	0.368	0.368	0.366	0.366	0.363	0.360	0.360	0.360
0.360	0.357	0.357	0.354	0.354	0.354	0.351	0.351	0.351	0.351
0.348	0.348	0.348	0.345	0.342	0.342	0.342	0.339	0.339	0.339
0.339	0.336	0.336	0.336	0.336	0.336	0.334	0.334	0.334	0.334
0.334	0.334	0.334	0.334	0.331	0.331	0.331	0.331	0.328	0.328
0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.325
0.325	0.325	0.325	0.325	0.325	0.325	0.322	0.322	0.322	0.322
0.322	0.319	0.319	0.319	0.316	0.316	0.316	0.316	0.313	0.313
0.313	0.313	0.313	0.313	0.313	0.313	0.310	0.310	0.310	0.310

Variance ellipse statistics

Maximum variance	0.1605E-01	Direction	-6.2
Minimum variance	0.5858E-02	Direction	83.8
Total variance	0.2191E-01	Ratio of variances	0.3650E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-6.0
Average direction. maxdir +PI/2 to maxdir -PI/2			185.3

Statistics for as9959mt.00509sf

	Mean	Variance	Standard deviation
Eastings	-0.0119	0.21364577E-02	0.46221830E-01
Northings	-0.0031	0.10087615E-02	0.31761006E-01
Speed	0.0413	0.15837735E-02	0.39796654E-01
Vector mean speed	0.0123		
Vector Mean Direction	-104.5		

Maximum ten values

Eastings					Northings				
0.067	0.064	0.057	0.051	0.038	0.095	0.090	0.079	0.064	0.063
0.036	0.034	0.032	0.029	0.029	0.053	0.053	0.053	0.051	0.049

Minimum ten values

Eastings					Northings				
-0.071	-0.086	-0.092	-0.133	-0.156	-0.048	-0.050	-0.052	-0.052	-0.053
-0.181	-0.210	-0.221	-0.241	-0.244	-0.054	-0.066	-0.069	-0.076	-0.078

Maximum speeds

0.248	0.247	0.222	0.216	0.183	0.162	0.148	0.125	0.105	0.098
0.094	0.094	0.085	0.084	0.081	0.076	0.073	0.072	0.072	0.070
0.069	0.067	0.065	0.060	0.059	0.058	0.056	0.056	0.054	0.053
0.053	0.052	0.051	0.051	0.049	0.049	0.048	0.048	0.048	0.048
0.047	0.046	0.046	0.045	0.043	0.042	0.042	0.042	0.041	0.040
0.040	0.040	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.037
0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.035	0.035
0.034	0.034	0.034	0.034	0.033	0.033	0.033	0.032	0.032	0.032
0.032	0.032	0.032	0.032	0.031	0.031	0.031	0.031	0.031	0.030
0.030	0.030	0.030	0.030	0.030	0.029	0.029	0.029	0.029	0.028

Variance ellipse statistics

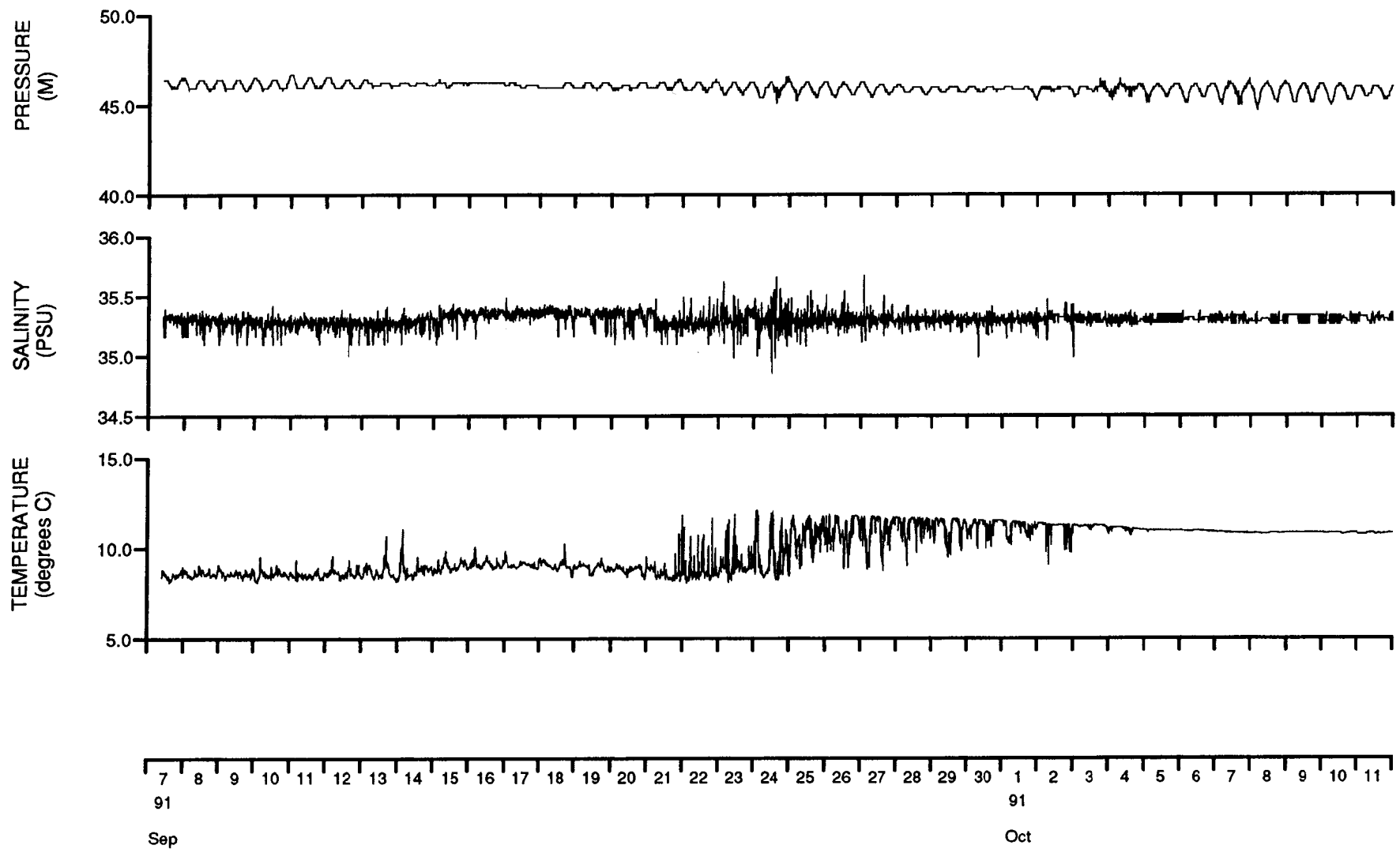
Maximum variance	0.2146E-02	Direction	-84.8
Minimum variance	0.9993E-03	Direction	5.2
Total variance	0.3145E-02	Ratio of variances	0.4657E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			49.7
Average direction. maxdir +PI/2 to maxdir -PI/2			196.0

TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 70.0

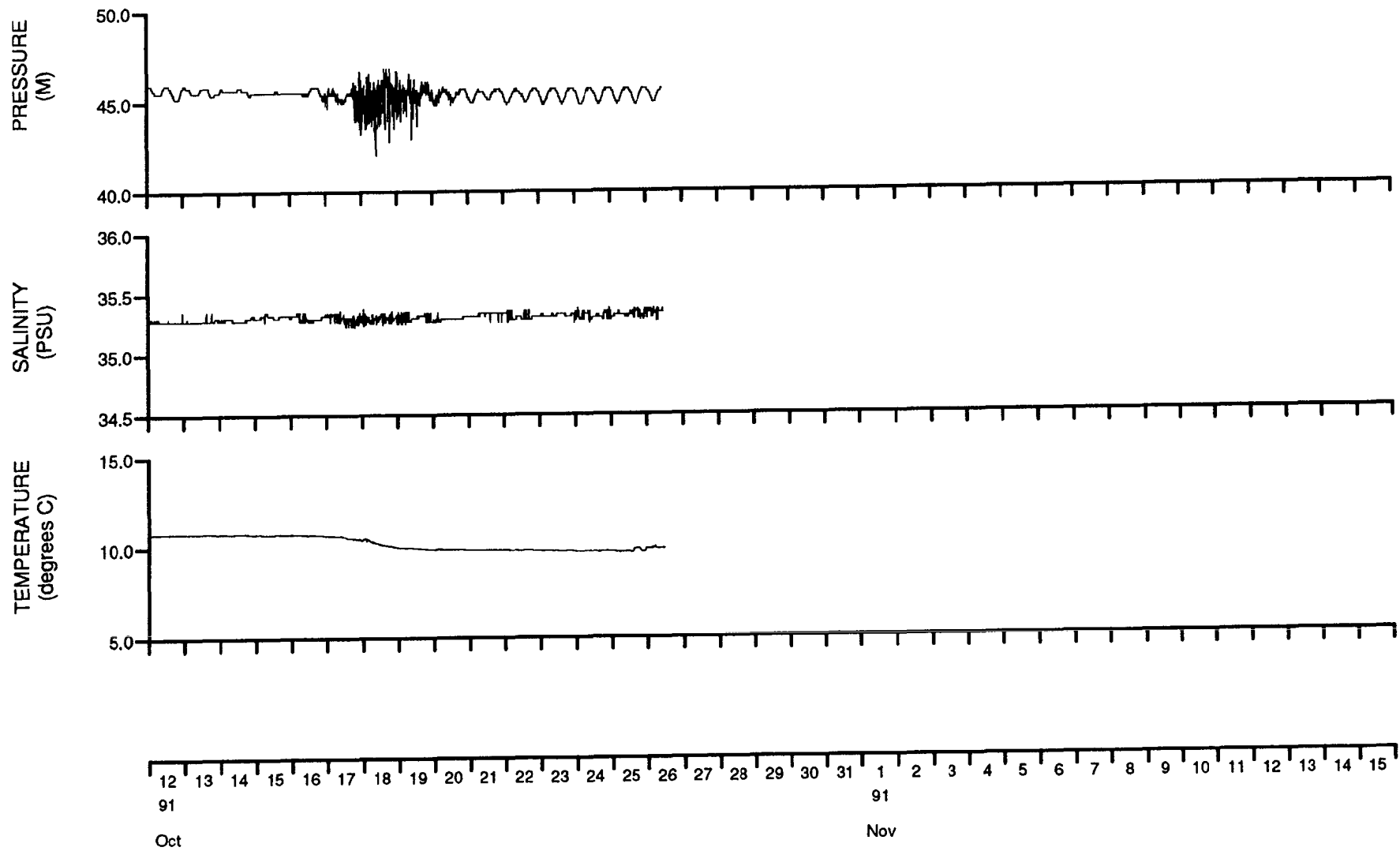


TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9959 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 70.0



Meter information details for 9652

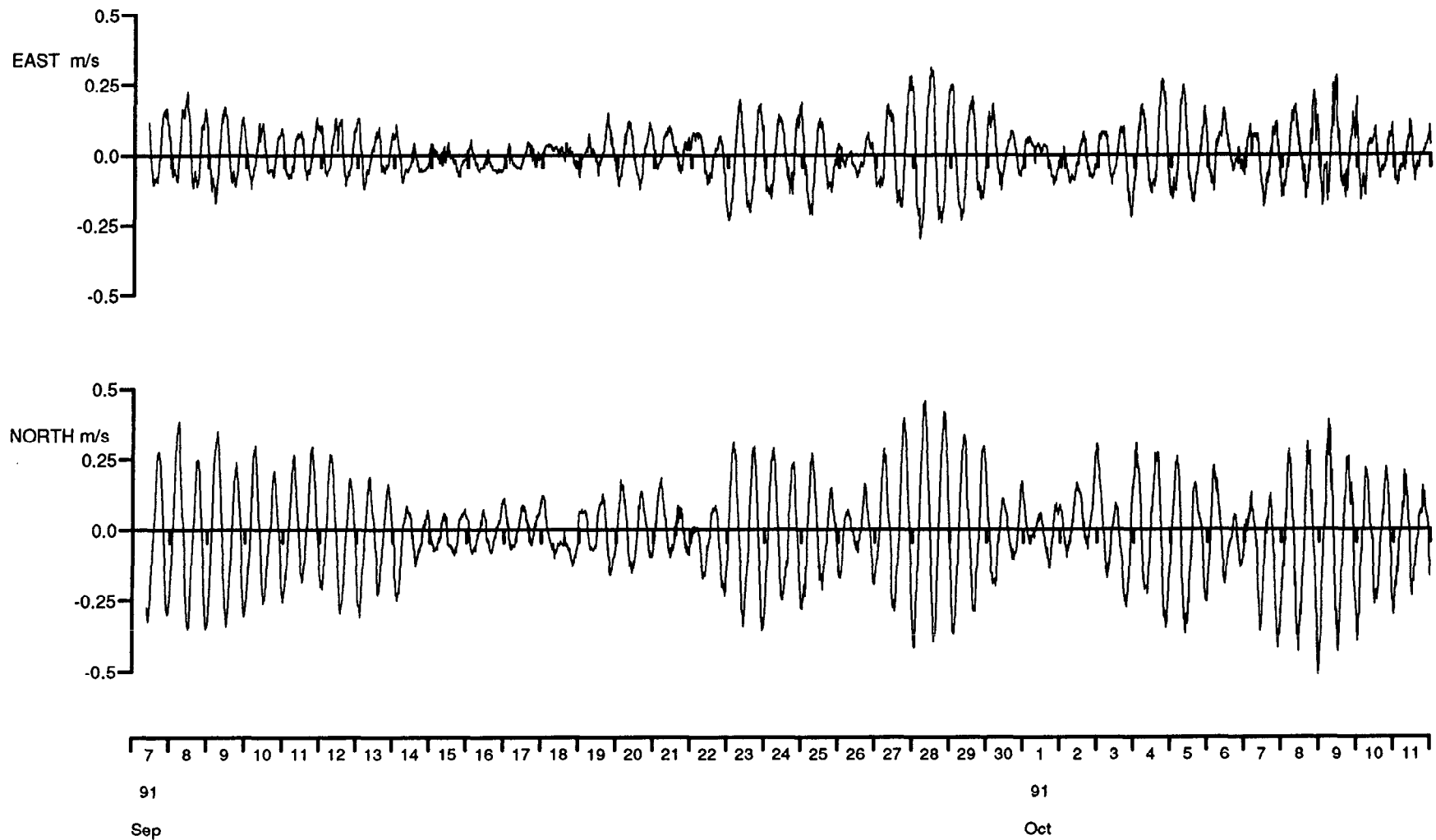
Rig No	:	00509
Meter No	:	9652
Recording interval	:	600.0 seconds
Meter height from bottom	:	50.0 m
Position of meter on rig	:	MB
Meter type	:	AS
Meter started	:	07-SEP-91 07:00:00
Time of last valid scan	:	01-NOV-91 02:50:00
Period of good data	:	54.7 days short record
Total number of scans	:	7880
Timing error	:	None
Comments	:	Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 50.0

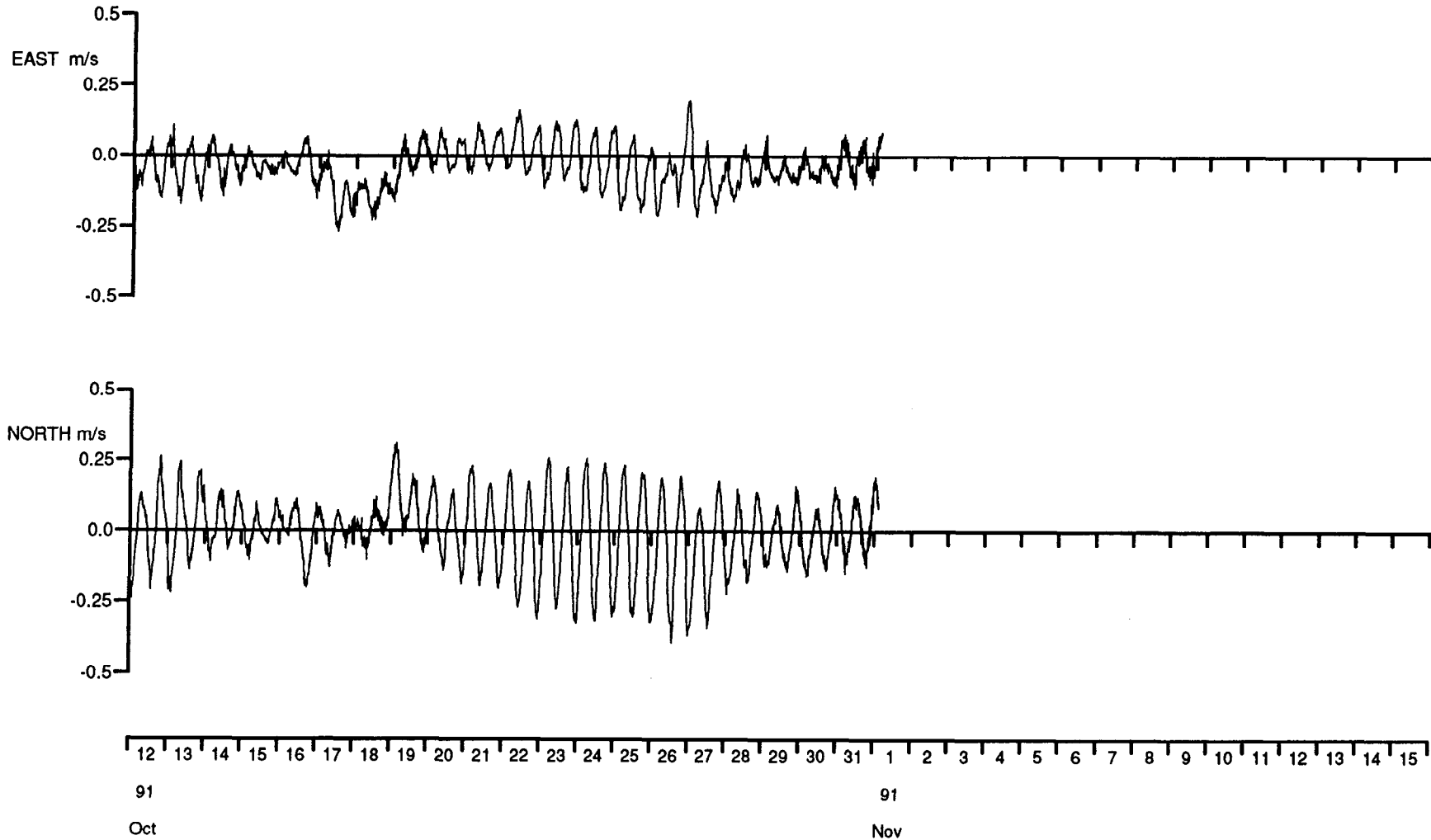


VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0

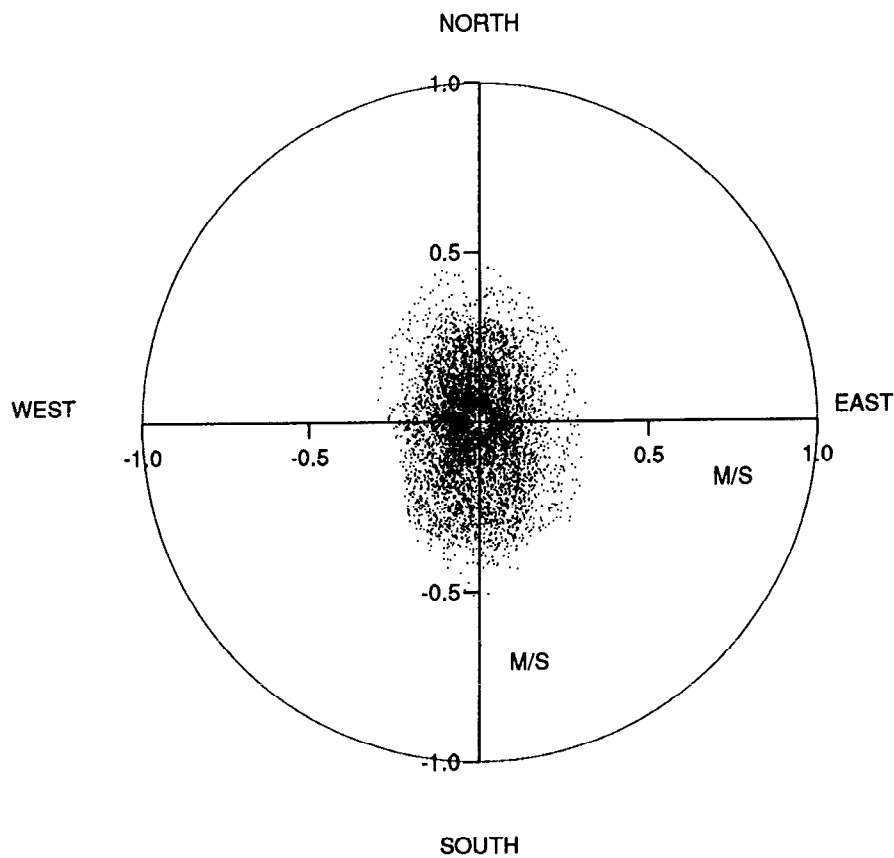
Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 50.0



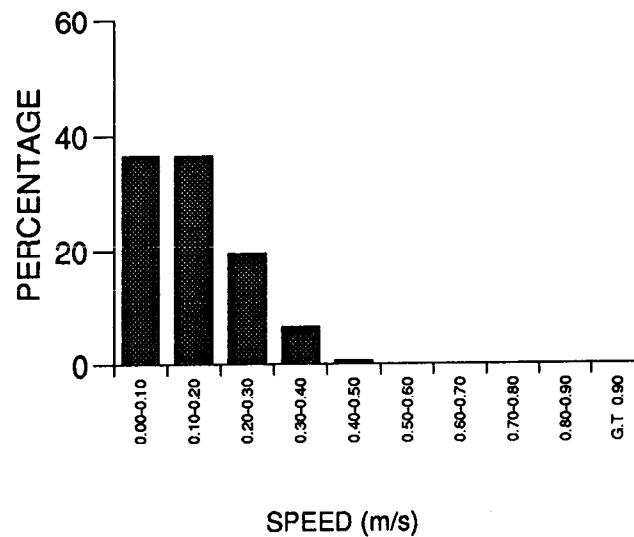
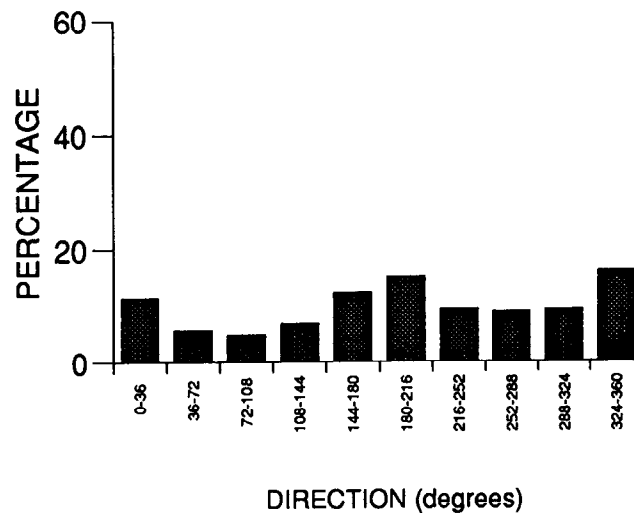
SCATTER PLOT

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 50.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 50.0

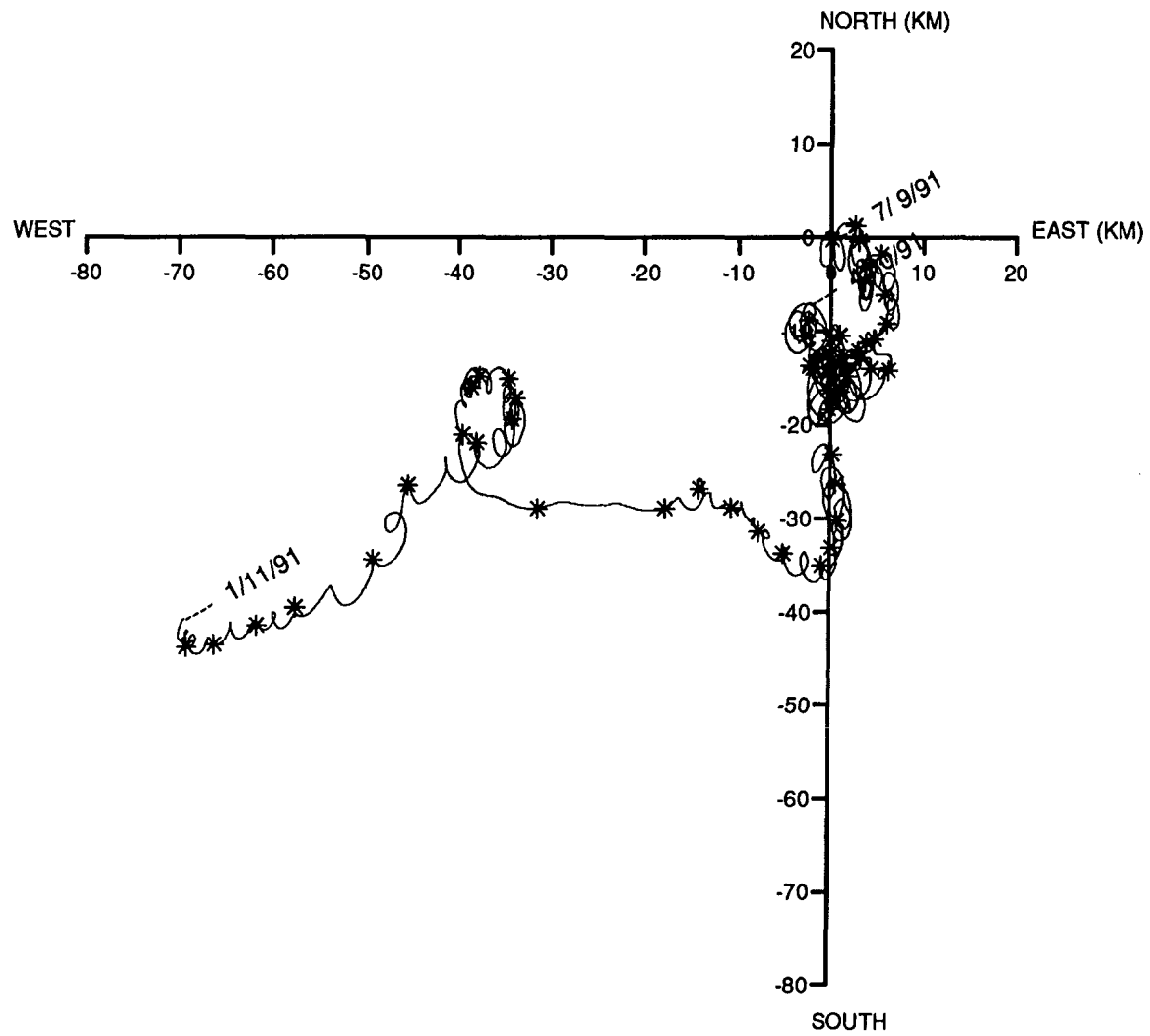


VECTOR PLOT

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 50.0



Statistics for as9652mb.00509s

	Mean	Variance	Standard deviation
Eastings	-0.0146	0.77000465E-02	0.87749913E-01
Northings	-0.0086	0.22150034E-01	0.14882886E+00
Speed	0.1495	0.77854912E-02	0.88235423E-01
Vector mean speed	0.0170		
Vector Mean Direction	-120.6		

Maximum ten values

Eastings					Northings				
0.309	0.298	0.292	0.290	0.287	0.455	0.450	0.448	0.445	0.439
0.287	0.284	0.283	0.279	0.279	0.433	0.432	0.431	0.428	0.417

Minimum ten values

Eastings					Northings				
-0.262	-0.262	-0.263	-0.263	-0.266	-0.428	-0.429	-0.429	-0.433	-0.443
-0.267	-0.283	-0.285	-0.291	-0.297	-0.472	-0.478	-0.494	-0.504	-0.510

Maximum speeds

0.511	0.505	0.496	0.482	0.473	0.459	0.456	0.453	0.450	0.450
0.450	0.447	0.447	0.438	0.438	0.438	0.435	0.432	0.432	0.432
0.429	0.427	0.421	0.421	0.421	0.418	0.418	0.418	0.418	0.415
0.415	0.415	0.415	0.415	0.415	0.412	0.412	0.409	0.409	0.409
0.409	0.406	0.406	0.406	0.403	0.403	0.403	0.400	0.397	0.397
0.397	0.397	0.397	0.395	0.395	0.395	0.395	0.395	0.392	0.392
0.392	0.392	0.392	0.392	0.389	0.389	0.389	0.389	0.386	0.386
0.386	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.380
0.380	0.380	0.380	0.380	0.380	0.380	0.377	0.377	0.377	0.377
0.374	0.374	0.374	0.374	0.374	0.374	0.371	0.371	0.371	0.371

Variance ellipse statistics

Maximum variance	0.2217E-01	Direction	-2.1
Minimum variance	0.7681E-02	Direction	87.9
Total variance	0.2985E-01	Ratio of variances	0.3465E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-8.5
Average direction. maxdir +PI/2 to maxdir -PI/2			187.3

Statistics for as9652mb.00509sf

	Mean	Variance	Standard deviation
Eastings	-0.0151	0.13599887E-02	0.36878027E-01
Northings	-0.0087	0.12013217E-02	0.34660090E-01
Speed	0.0423	0.10634257E-02	0.32610208E-01
Vector mean speed	0.0174		
Vector Mean Direction	-119.9		

Maximum ten values

Eastings					Northings				
0.037	0.036	0.036	0.031	0.031	0.117	0.116	0.093	0.093	0.069
0.031	0.030	0.029	0.029	0.027	0.061	0.060	0.056	0.054	0.044

Minimum ten values

Eastings					Northings				
-0.090	-0.096	-0.097	-0.102	-0.123	-0.069	-0.073	-0.080	-0.082	-0.084
-0.130	-0.149	-0.153	-0.163	-0.164	-0.089	-0.093	-0.093	-0.094	-0.096

Maximum speeds

0.164	0.163	0.154	0.149	0.142	0.134	0.130	0.123	0.121	0.118
0.117	0.115	0.109	0.102	0.100	0.098	0.097	0.095	0.095	0.095
0.093	0.091	0.090	0.090	0.084	0.082	0.079	0.073	0.072	0.070
0.065	0.062	0.061	0.061	0.057	0.057	0.056	0.054	0.054	0.053
0.053	0.053	0.053	0.052	0.051	0.050	0.050	0.049	0.048	0.047
0.047	0.047	0.046	0.045	0.045	0.044	0.044	0.043	0.043	0.043
0.042	0.042	0.042	0.042	0.042	0.041	0.041	0.041	0.041	0.040
0.040	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.037
0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.035	0.035	0.035
0.035	0.035	0.035	0.034	0.034	0.034	0.034	0.033	0.033	0.033

Variance ellipse statistics

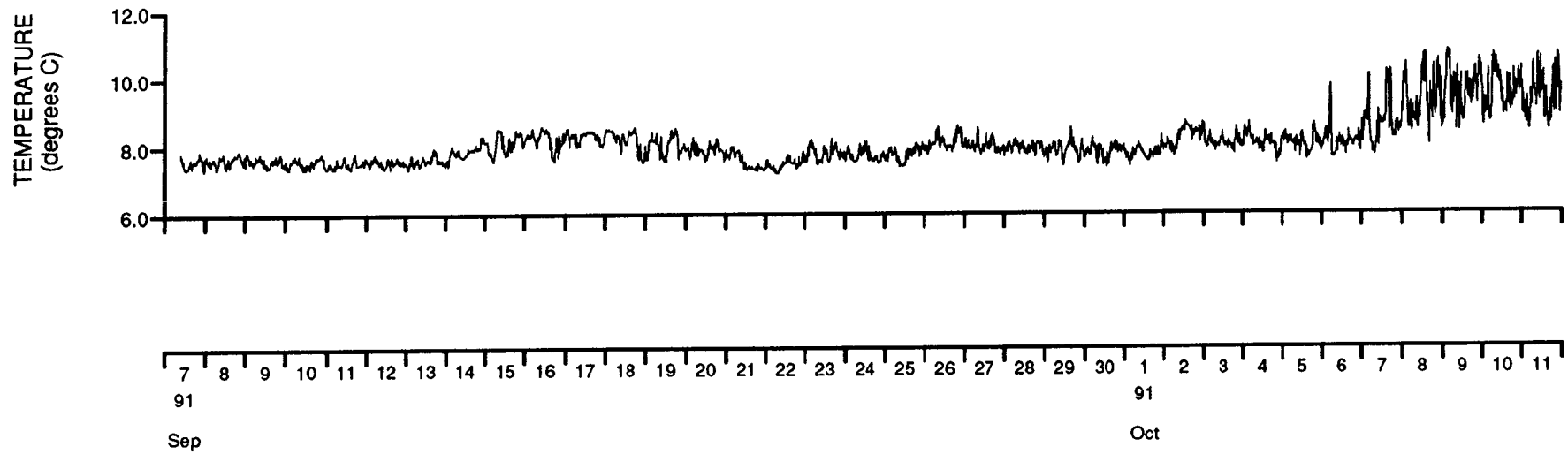
Maximum variance	0.1360E-02	Direction	89.2
Minimum variance	0.1201E-02	Direction	179.2
Total variance	0.2561E-02	Ratio of variances	0.8833E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			18.2
Average direction. maxdir +PI/2 to maxdir -PI/2			166.0

TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 50.0

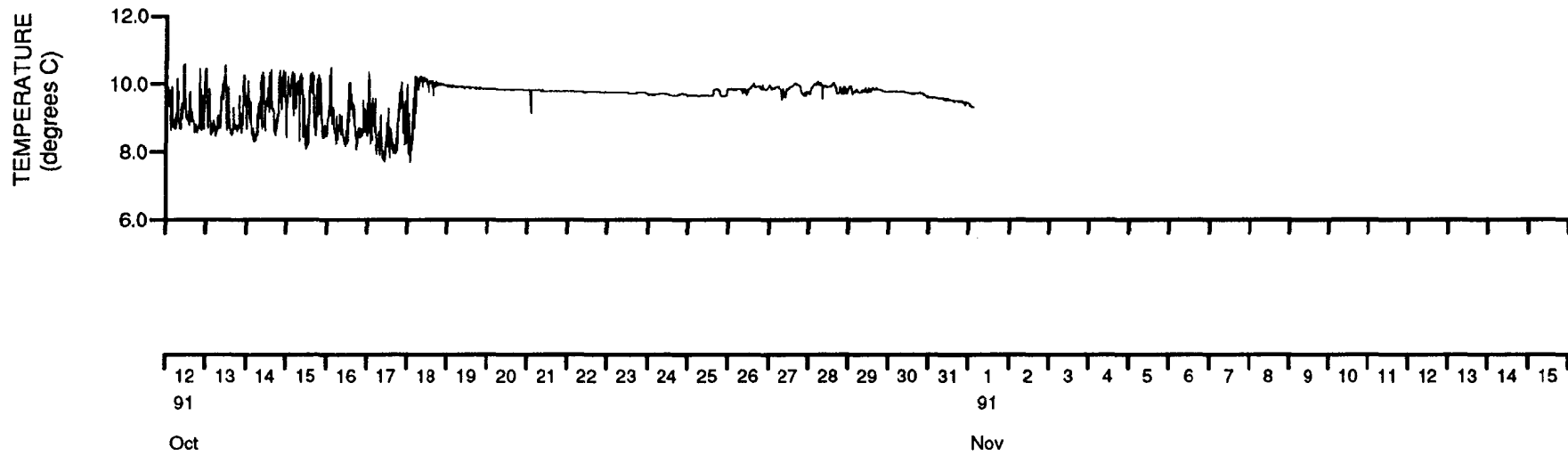


TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 9652 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 50.0



Meter information details for 0568

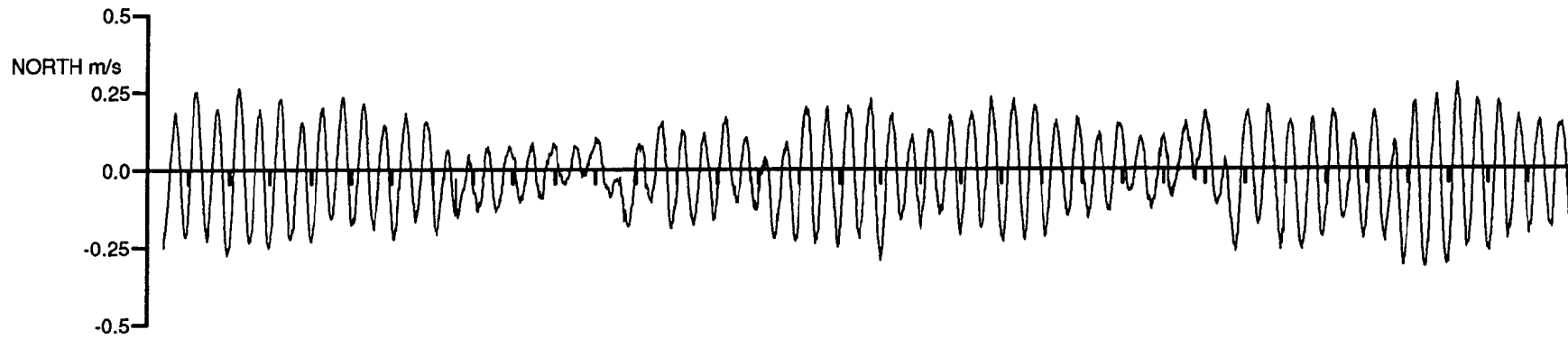
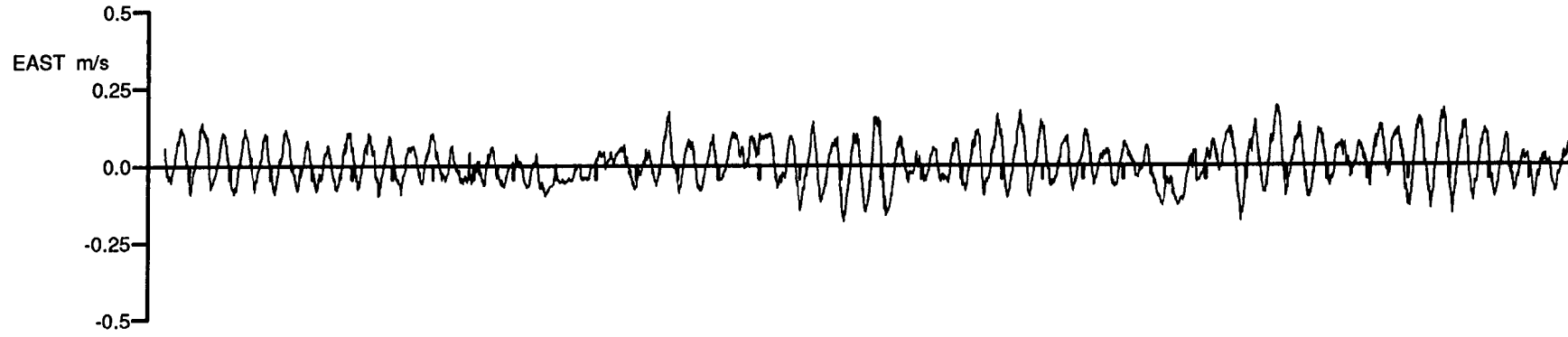
Rig No	:	00509
Meter No	:	0568
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.0 m
Position of meter on rig	:	B
Meter type	:	AA
Meter started	:	07-SEP-91 07:50:00
Meter stopped	:	10-NOV-91 10:20:14
Period switched on	:	64.1 days
Period of good data	:	61.7 days
Total number of scans	:	8879
Timing error	:	14 seconds slow
Comments	:	Severe storm occurs on 17/18 October

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 10.0



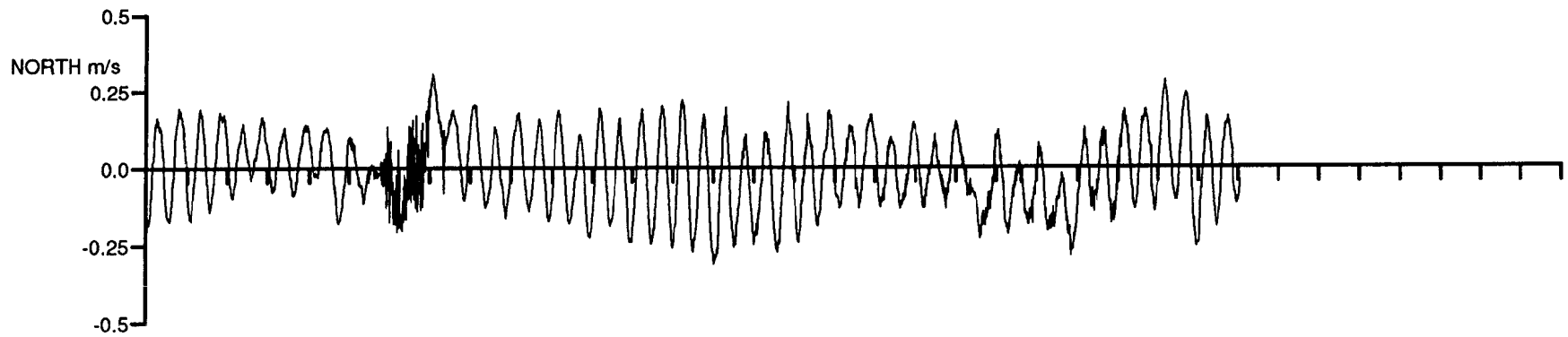
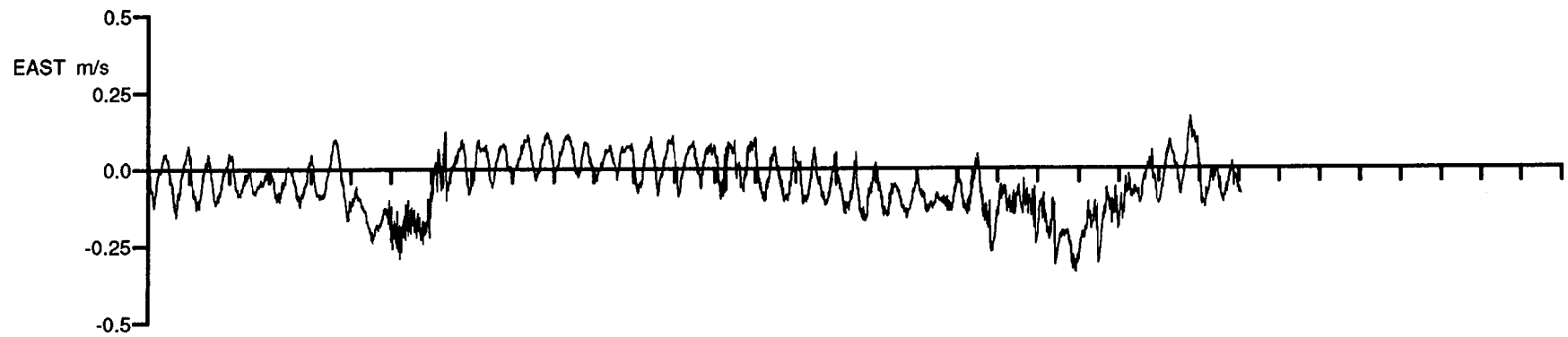
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
91 91
Sep Oct

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

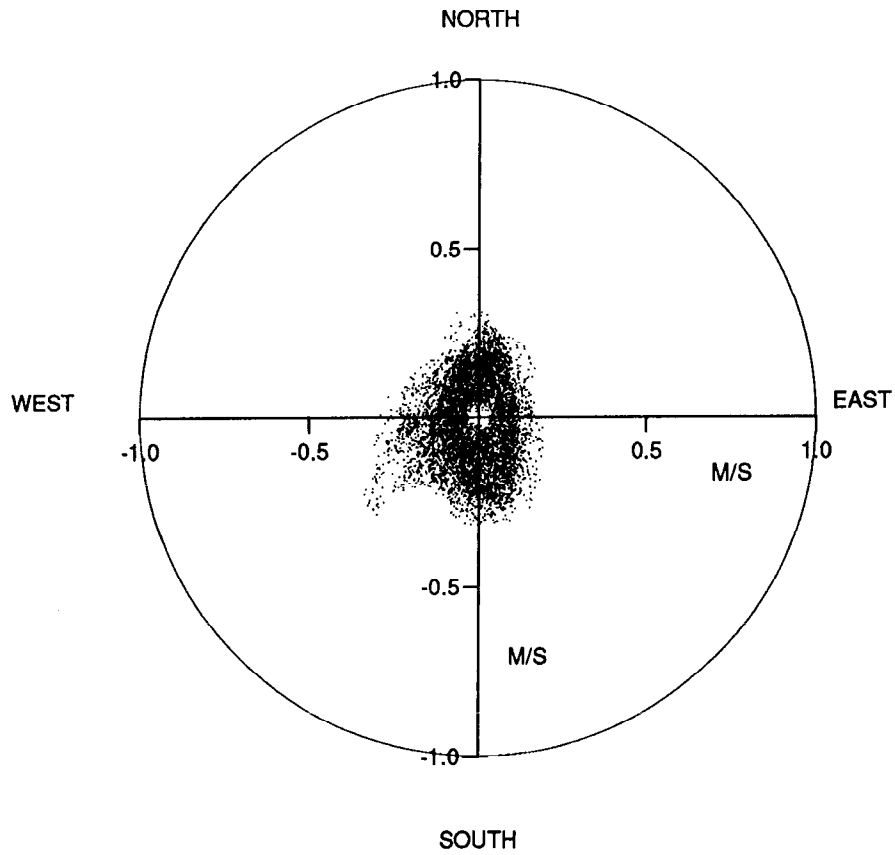
Position 59 53.55N 01 00.07E Meter Height(m) 10.0



12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
91 91
Oct Nov

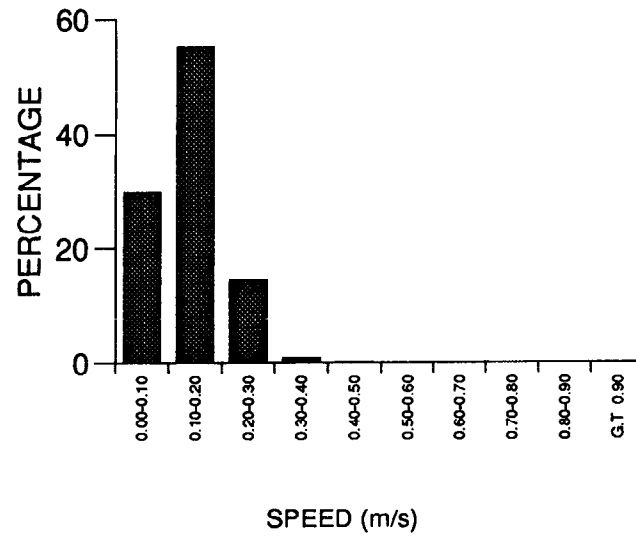
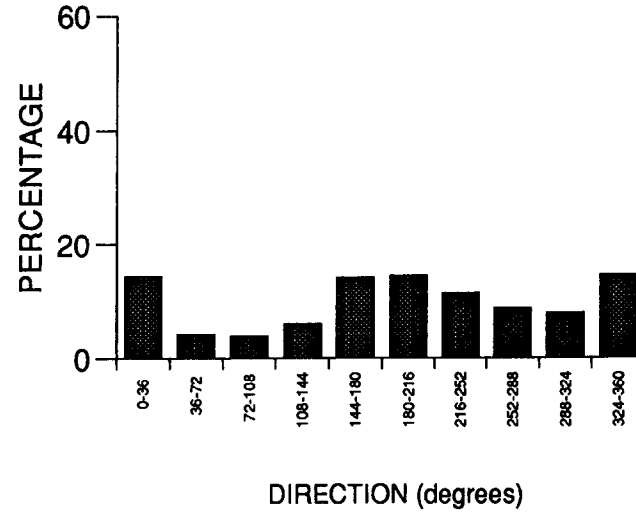
SCATTER PLOT

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 10.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0
 Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00
 Position 59 53.55N 01 00.07E Meter Height(m) 10.0

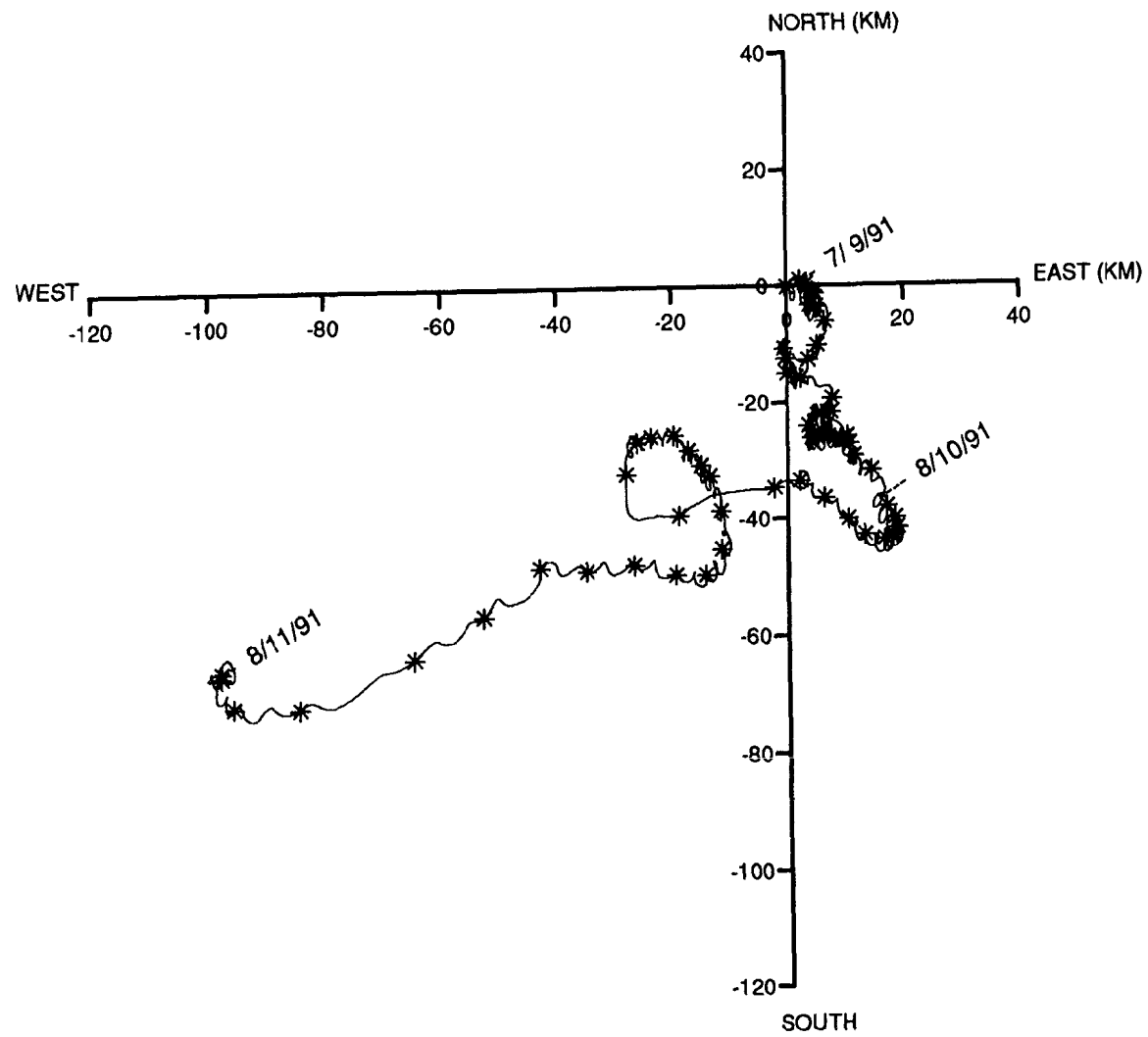


VECTOR PLOT

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 10.0



Statistics for aa0568b.00509sf

	Mean	Variance	Standard deviation
Eastings	-0.0202	0.35823884E-02	0.59853058E-01
Northings	-0.0145	0.14369379E-02	0.37906963E-01
Speed	0.0564	0.24441523E-02	0.49438369E-01
Vector mean speed	0.0248		
Vector Mean Direction	-125.6		

Maximum ten values

Eastings					Northings				
0.064	0.062	0.051	0.051	0.051	0.142	0.130	0.116	0.082	0.072
0.047	0.046	0.045	0.042	0.041	0.060	0.050	0.048	0.047	0.046

Minimum ten values

Eastings					Northings				
-0.171	-0.180	-0.194	-0.195	-0.201	-0.080	-0.080	-0.081	-0.083	-0.083
-0.207	-0.208	-0.226	-0.235	-0.242	-0.086	-0.103	-0.104	-0.120	-0.121

Maximum speeds

0.265	0.263	0.240	0.238	0.217	0.211	0.200	0.199	0.198	0.186
0.162	0.161	0.159	0.148	0.144	0.142	0.142	0.142	0.139	0.138
0.136	0.132	0.125	0.118	0.109	0.104	0.103	0.101	0.101	0.096
0.094	0.092	0.090	0.090	0.090	0.089	0.086	0.085	0.083	0.082
0.082	0.082	0.082	0.081	0.078	0.078	0.078	0.076	0.075	0.075
0.074	0.073	0.071	0.070	0.069	0.069	0.067	0.065	0.064	0.064
0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.061	0.061	0.061
0.060	0.060	0.059	0.058	0.058	0.057	0.056	0.055	0.055	0.054
0.054	0.054	0.053	0.053	0.052	0.052	0.052	0.051	0.051	0.050
0.049	0.049	0.049	0.049	0.049	0.049	0.048	0.048	0.047	0.047

Variance ellipse statistics

Maximum variance	0.3641E-02	Direction	80.7
Minimum variance	0.1378E-02	Direction	170.7
Total variance	0.5019E-02	Ratio of variances	0.3784E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			34.4
Average direction. maxdir +PI/2 to maxdir -PI/2			169.9

Statistics for aa0568b.00509s

	Mean	Variance	Standard deviation
Eastings	-0.0189	0.65481500E-02	0.80920637E-01
Northings	-0.0124	0.15645361E-01	0.12508142E+00
Speed	0.1385	0.35188014E-02	0.59319485E-01
Vector mean speed	0.0226		
Vector Mean Direction	-123.3		

Maximum ten values

Eastings					Northings				
0.189	0.189	0.188	0.184	0.182	0.309	0.307	0.303	0.303	0.301
0.181	0.180	0.179	0.178	0.176	0.298	0.298	0.297	0.285	0.281

Minimum ten values

Eastings					Northings				
-0.313	-0.314	-0.315	-0.315	-0.322	-0.306	-0.307	-0.308	-0.309	-0.311
-0.323	-0.328	-0.333	-0.333	-0.338	-0.312	-0.312	-0.315	-0.316	-0.317

Maximum speeds

0.418	0.415	0.415	0.413	0.410	0.407	0.404	0.399	0.399	0.396
0.396	0.396	0.393	0.385	0.385	0.379	0.379	0.373	0.362	0.359
0.357	0.354	0.354	0.354	0.345	0.343	0.337	0.337	0.334	0.331
0.331	0.331	0.331	0.326	0.323	0.323	0.320	0.320	0.317	0.317
0.317	0.317	0.317	0.315	0.315	0.315	0.315	0.312	0.312	0.312
0.312	0.312	0.312	0.312	0.309	0.309	0.309	0.309	0.306	0.306
0.306	0.306	0.306	0.306	0.306	0.303	0.303	0.303	0.303	0.303
0.303	0.303	0.303	0.301	0.301	0.301	0.301	0.301	0.301	0.298
0.298	0.298	0.298	0.298	0.298	0.298	0.298	0.295	0.295	0.295
0.295	0.295	0.295	0.295	0.292	0.292	0.292	0.292	0.292	0.292

Variance ellipse statistics

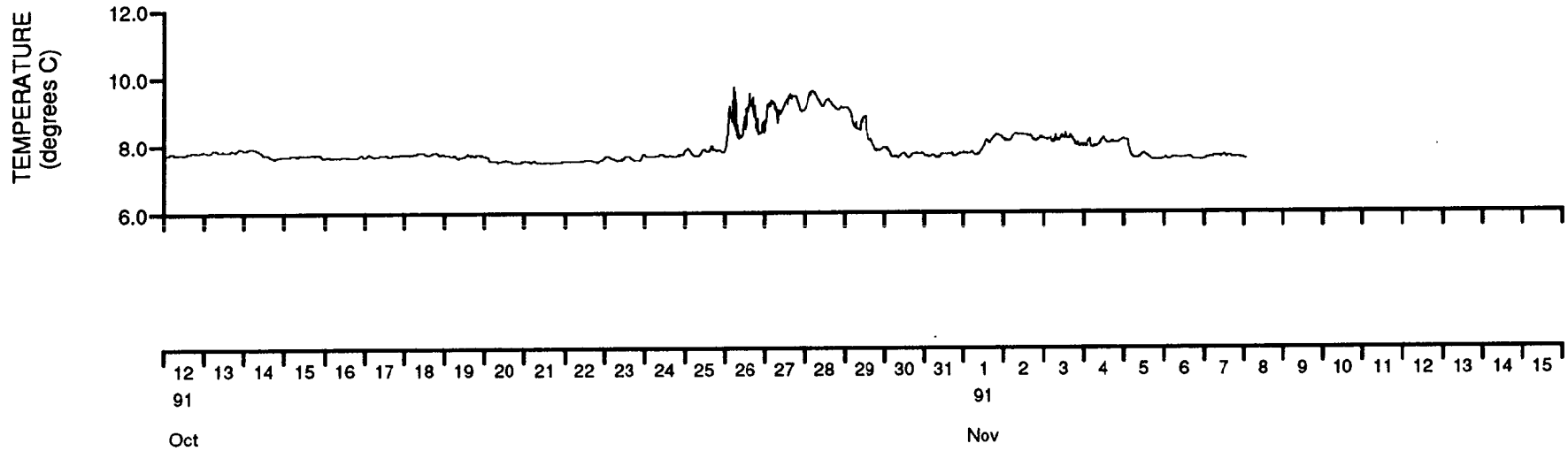
Maximum variance	0.1567E-01	Direction	3.0
Minimum variance	0.6523E-02	Direction	93.0
Total variance	0.2219E-01	Ratio of variances	0.4163E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-8.6
Average direction. maxdir +PI/2 to maxdir -PI/2			189.5

TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 10.0

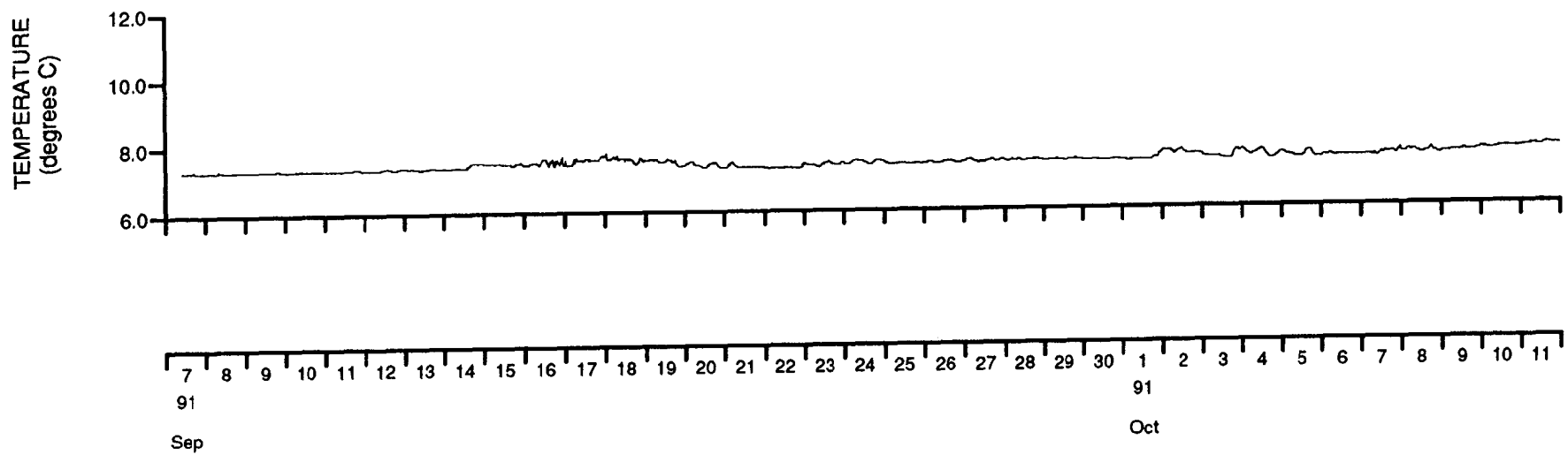


TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00509 Depth of water(m) 116.0

Start/End 1991/09/07 AT 09:32:00 1991/11/08 AT 01:30:00

Position 59 53.55N 01 00.07E Meter Height(m) 10.0

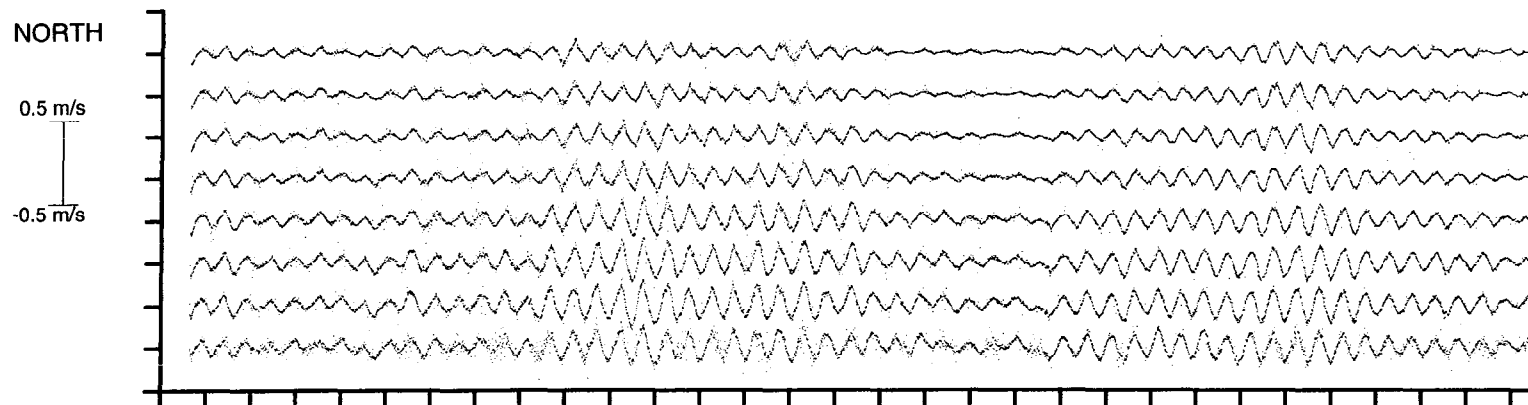
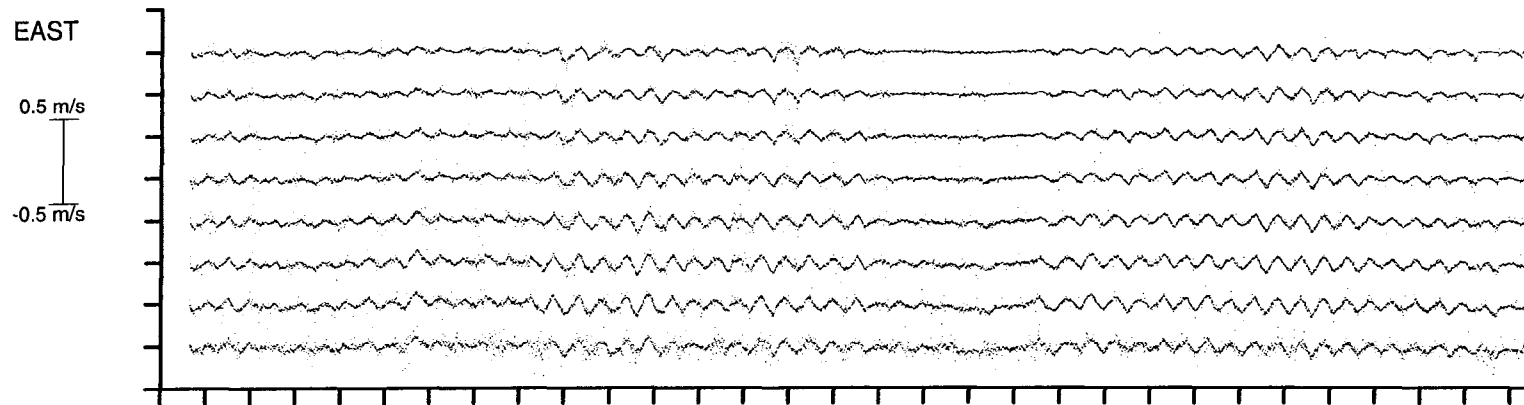


VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 1

91

91

Sep

Oct

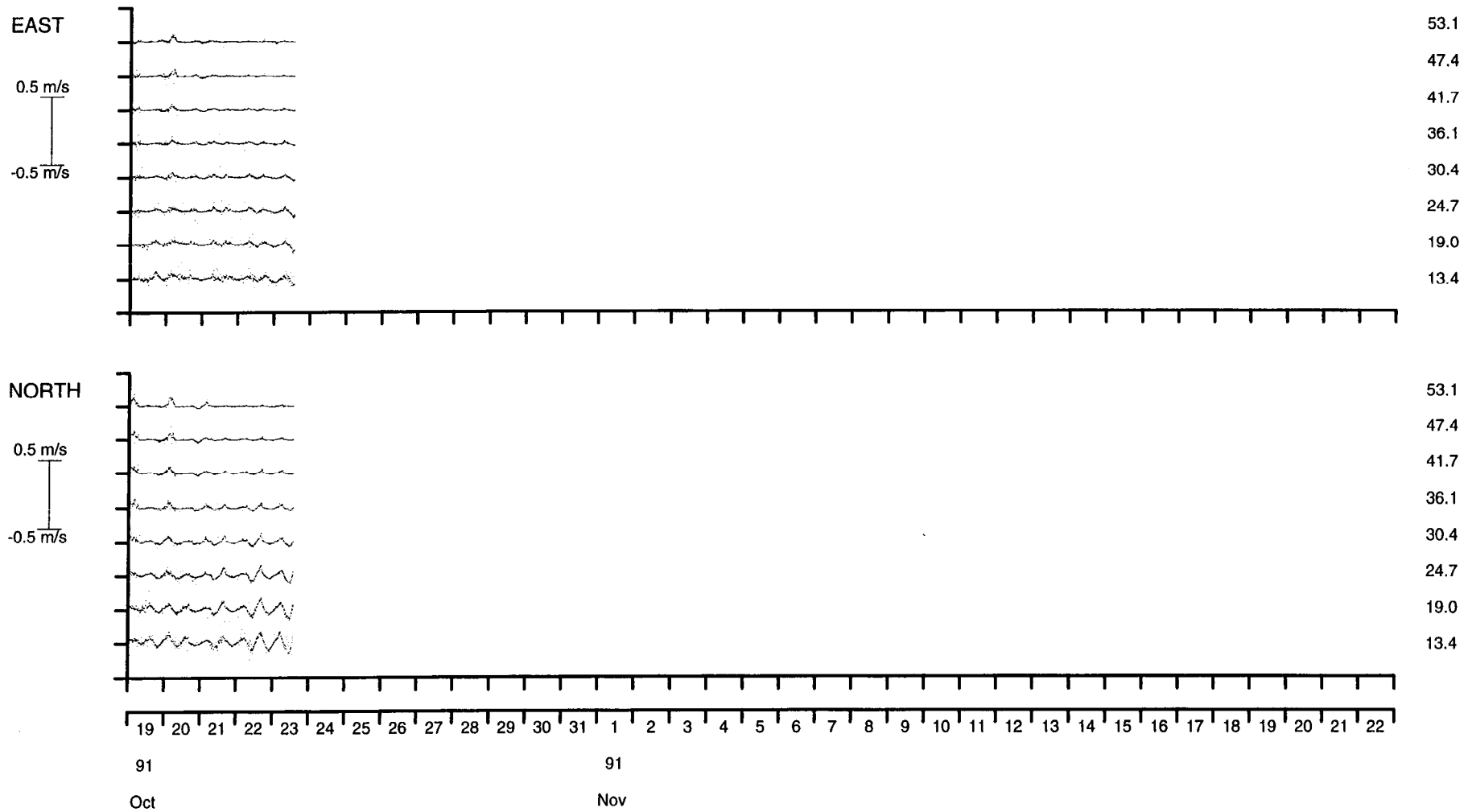
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



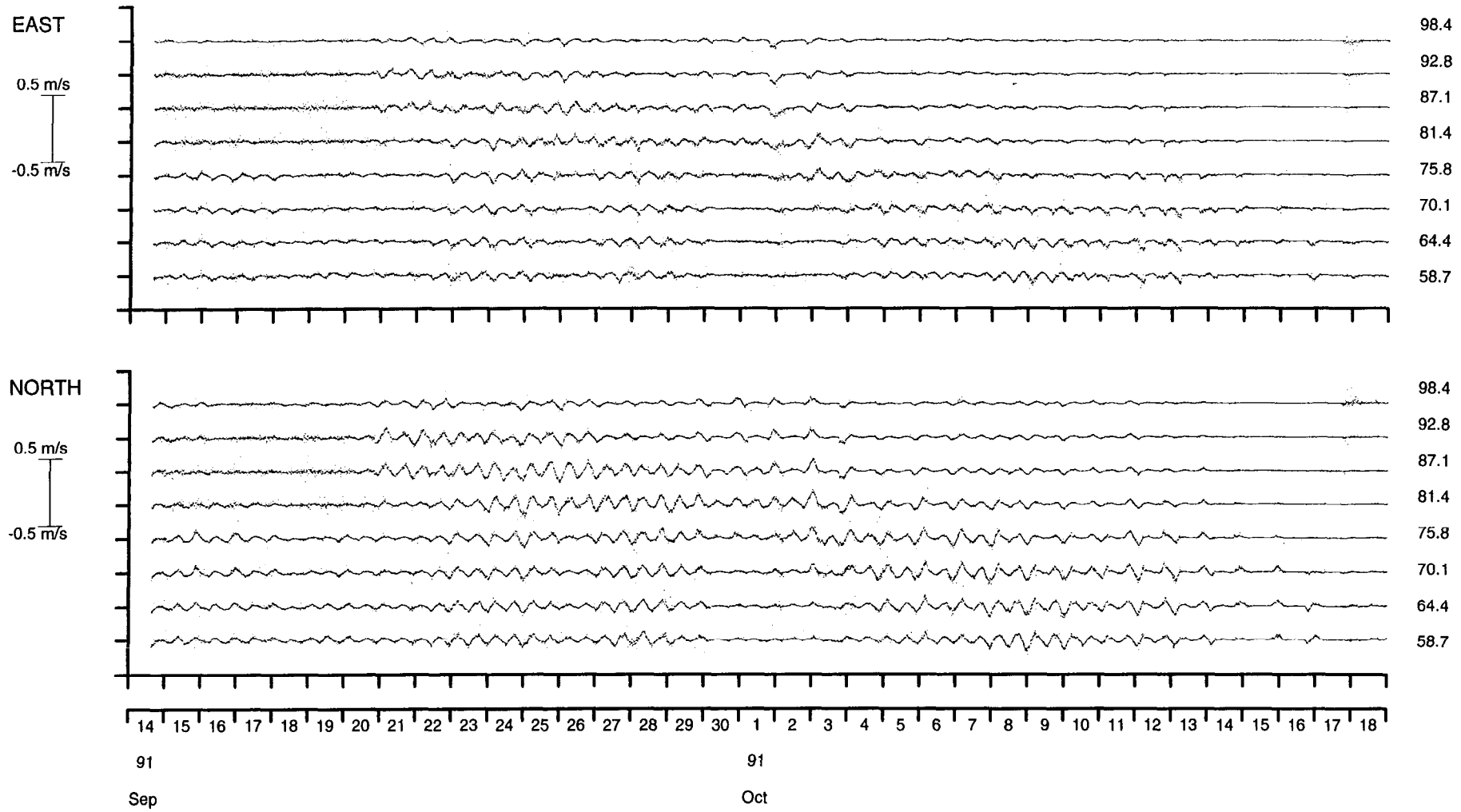
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



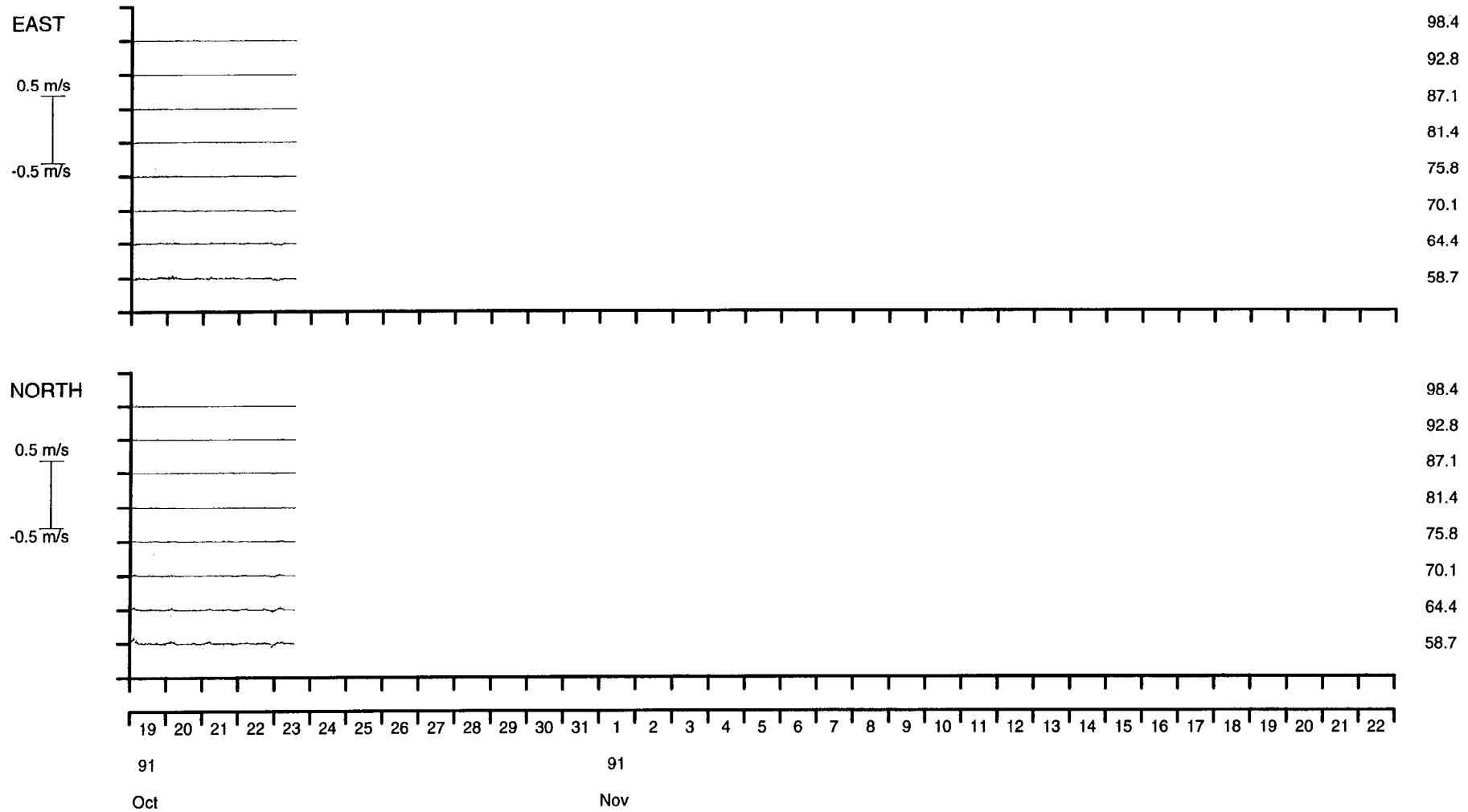
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

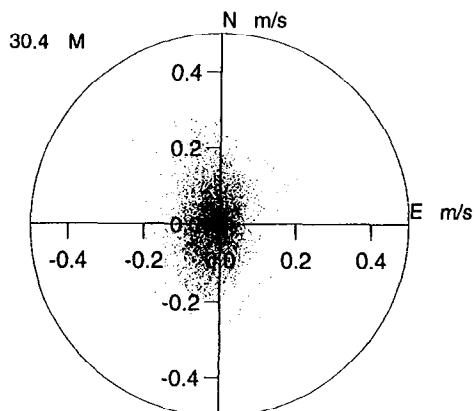
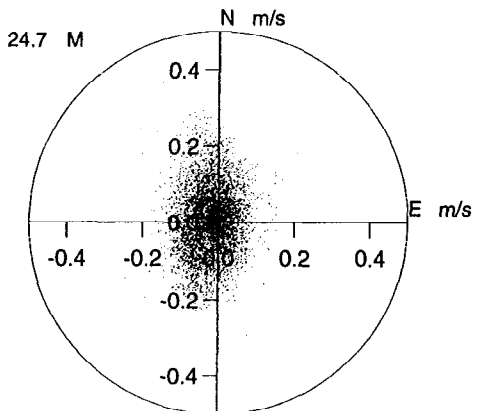
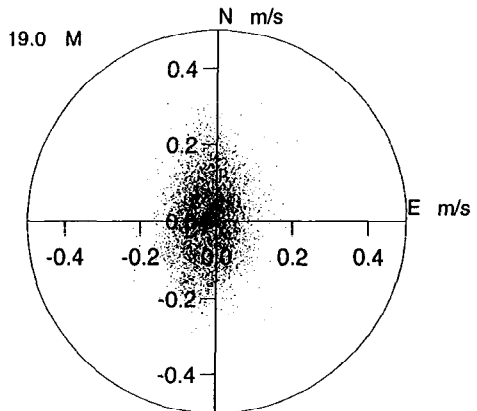
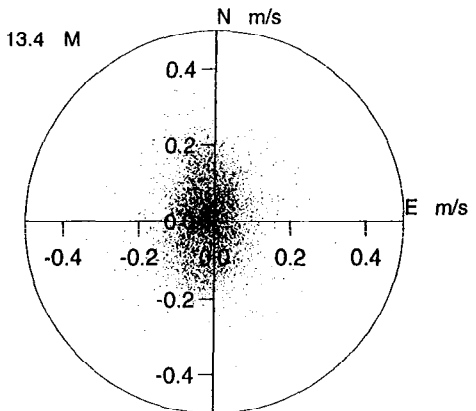
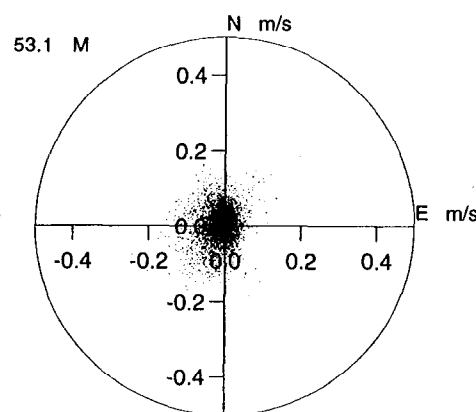
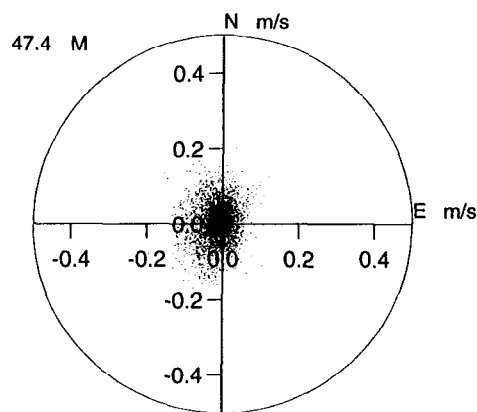
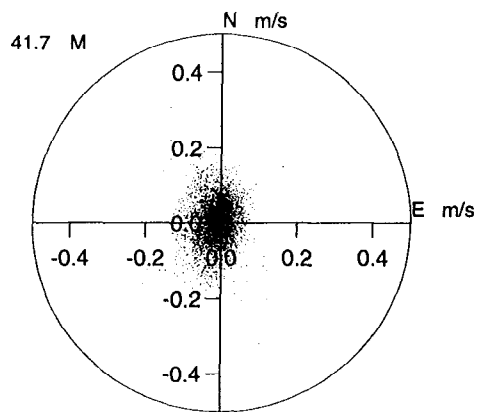
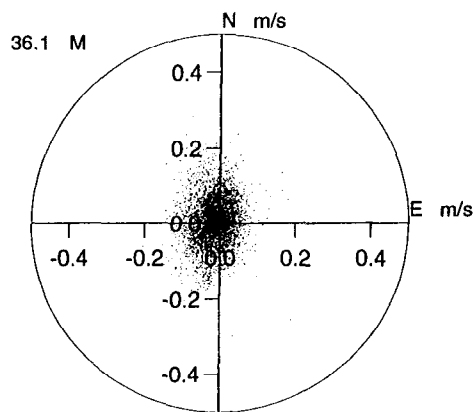


SCATTER PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht

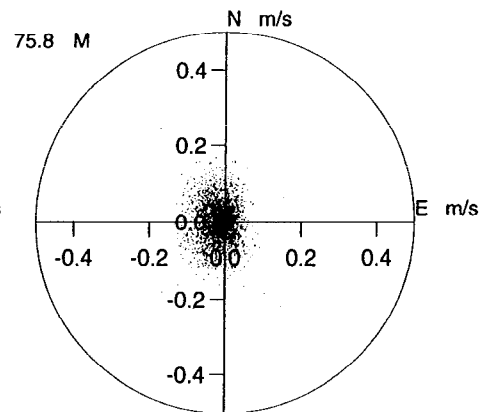
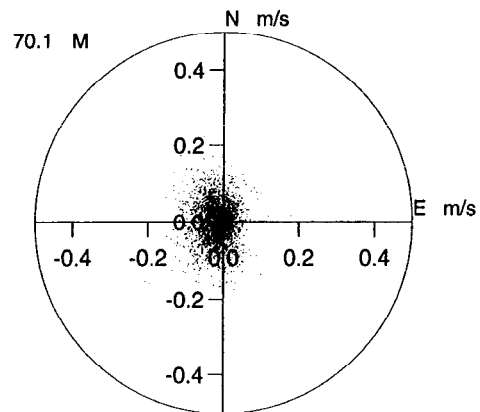
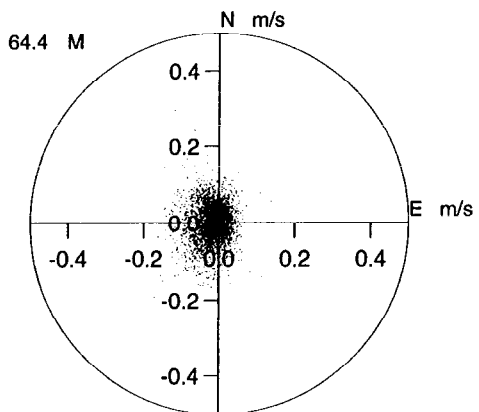
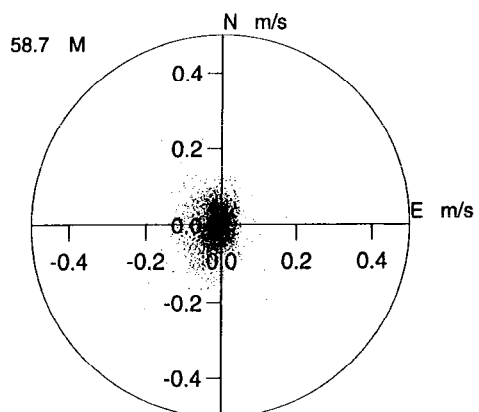
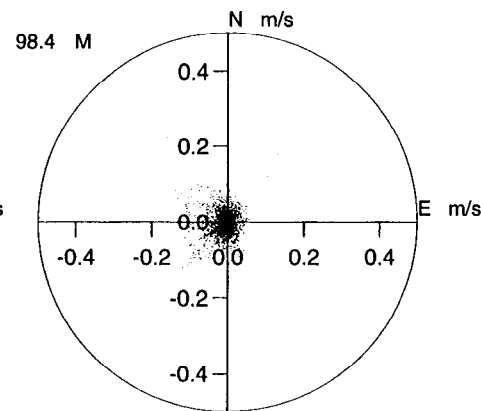
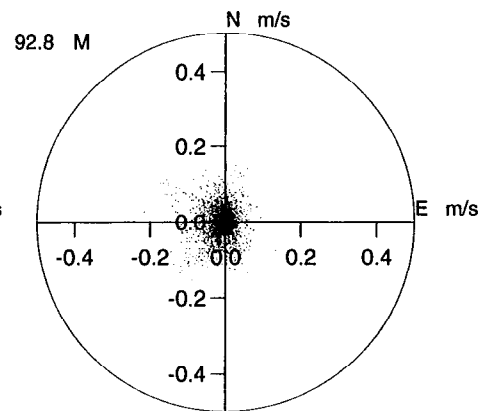
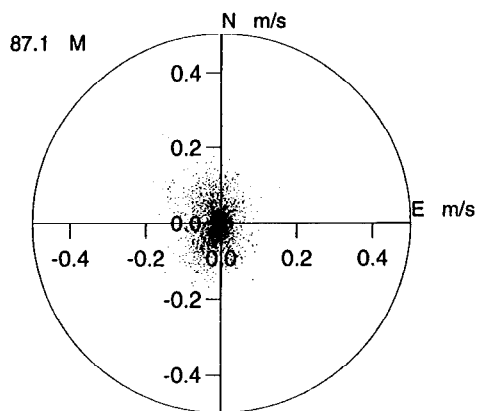
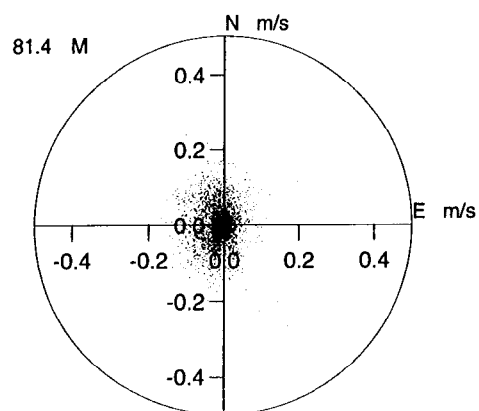


SCATTER PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

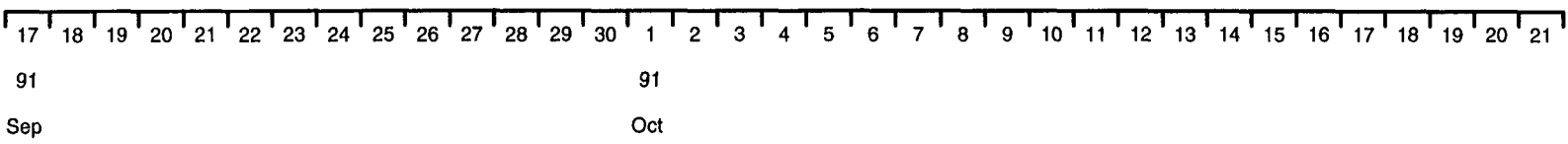
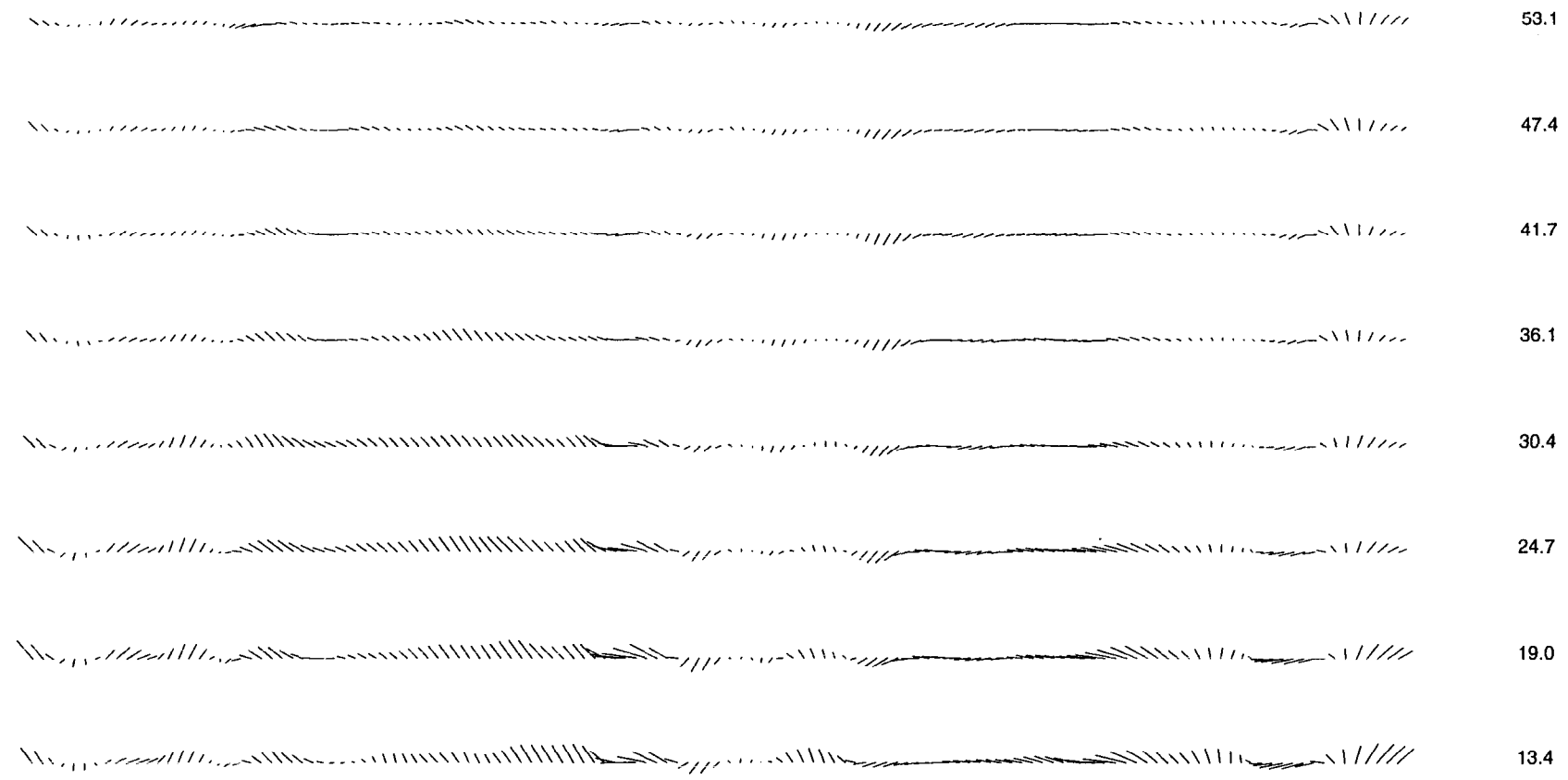
Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s



STICK TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

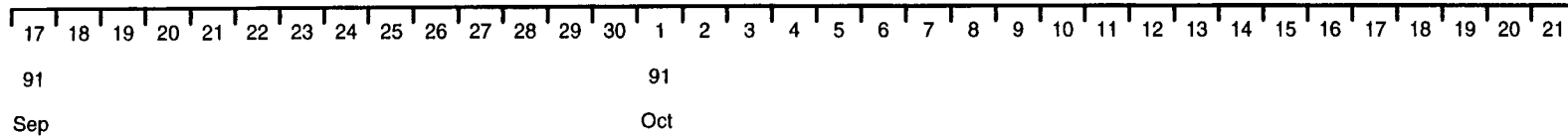
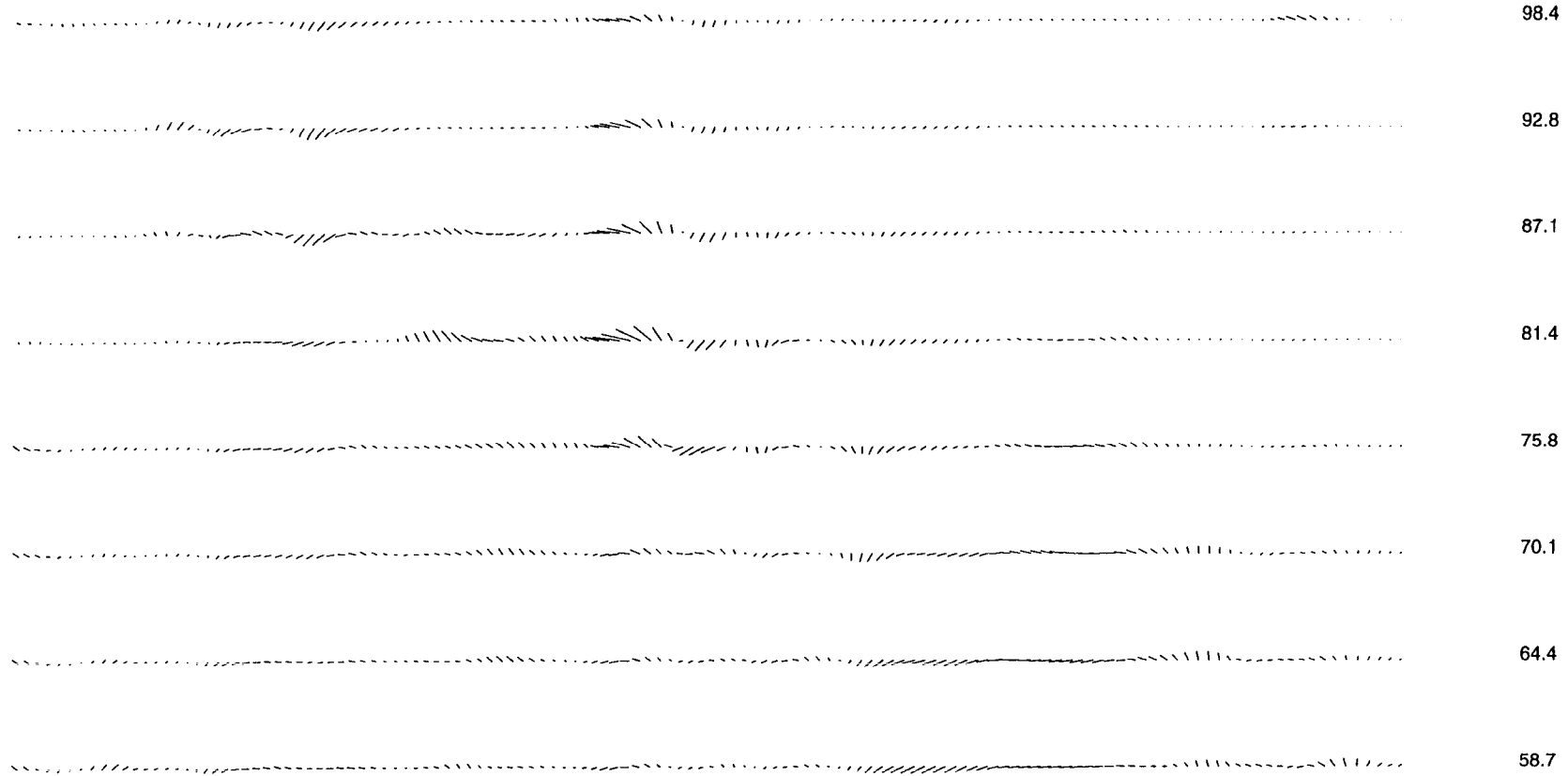
Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s



Statistics for dp0003.00502

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.022	-53.0	0.0075	1.4	0.0030	91.4
2	19.0	0.023	-62.1	0.0082	3.9	0.0026	93.9
3	24.7	0.022	-63.6	0.0067	3.8	0.0022	93.8
4	30.4	0.017	-64.2	0.0051	3.1	0.0017	93.1
5	36.1	0.013	-70.1	0.0031	5.3	0.0012	95.3
6	41.7	0.012	-76.1	0.0025	4.8	0.0010	94.8
7	47.4	0.011	-77.9	0.0019	8.2	0.0009	98.2
8	53.1	0.011	-81.7	0.0017	12.6	0.0008	102.6
9	58.7	0.011	-85.0	0.0014	8.3	0.0007	98.3
10	64.4	0.012	-85.9	0.0014	4.7	0.0007	94.7
11	70.1	0.011	-83.9	0.0015	-1.4	0.0007	88.6
12	75.8	0.010	-85.1	0.0014	-1.8	0.0007	88.2
13	81.4	0.009	-82.2	0.0016	0.4	0.0007	90.4
14	87.1	0.007	-94.5	0.0014	1.2	0.0006	91.2
15	92.8	0.006	-104.1	0.0007	6.0	0.0005	96.0
16	98.4	0.005	-104.2	0.0004	17.2	0.0003	107.2

Statistics for dp0003.00502

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.025	-57.4	0.0006	73.8	0.0002	163.8
2	19.0	0.025	-64.3	0.0007	83.7	0.0003	173.7
3	24.7	0.024	-64.7	0.0005	86.9	0.0002	176.9
4	30.4	0.019	-65.5	0.0003	83.0	0.0002	173.0
5	36.1	0.014	-71.1	0.0002	82.4	0.0001	172.4
6	41.7	0.012	-77.2	0.0001	72.6	0.0001	162.6
7	47.4	0.012	-78.9	0.0001	67.8	0.0001	157.8
8	53.1	0.011	-83.2	0.0002	64.0	0.0000	154.0
9	58.7	0.011	-86.5	0.0001	65.0	0.0000	155.0
10	64.4	0.012	-87.0	0.0001	65.7	0.0000	155.7
11	70.1	0.012	-84.9	0.0001	82.3	0.0000	172.3
12	75.8	0.010	-87.4	0.0001	-81.3	0.0001	8.7
13	81.4	0.010	-81.7	0.0002	-66.1	0.0001	23.9
14	87.1	0.009	-94.3	0.0001	-81.4	0.0001	8.6
15	92.8	0.006	-102.5	0.0001	77.0	0.0001	167.0
16	98.4	0.005	-102.6	0.0000	-86.3	0.0000	3.7

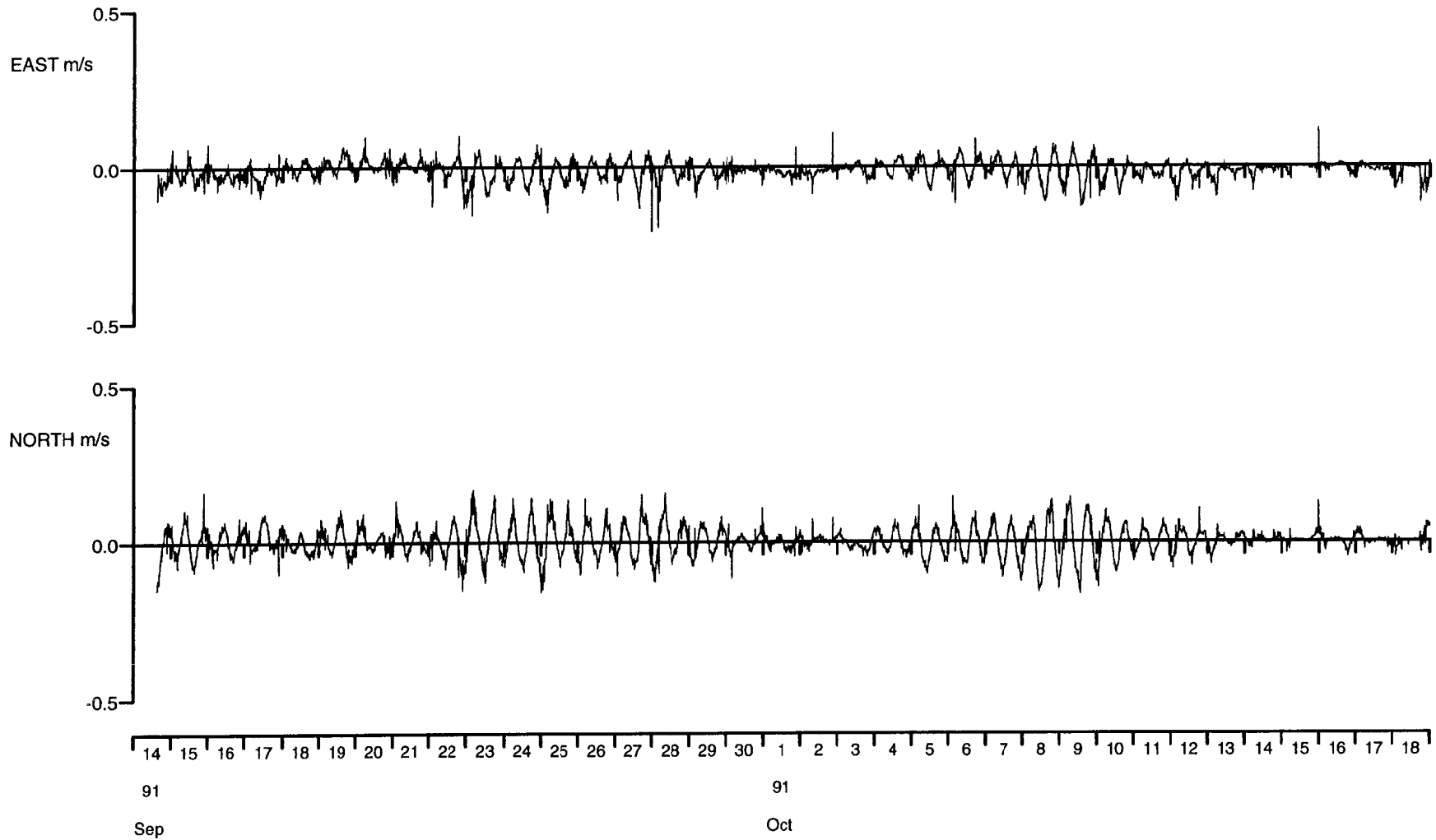
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



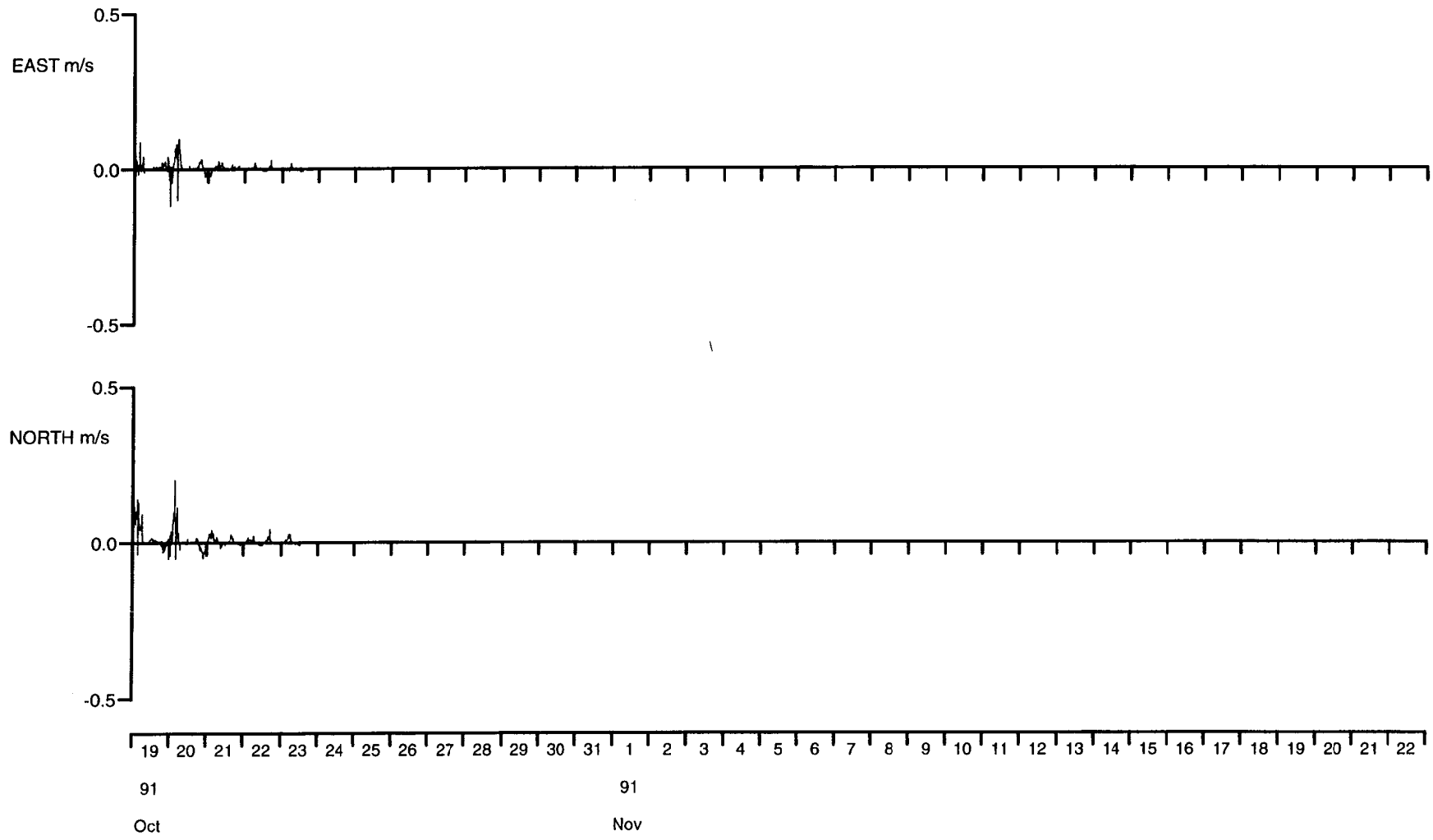
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



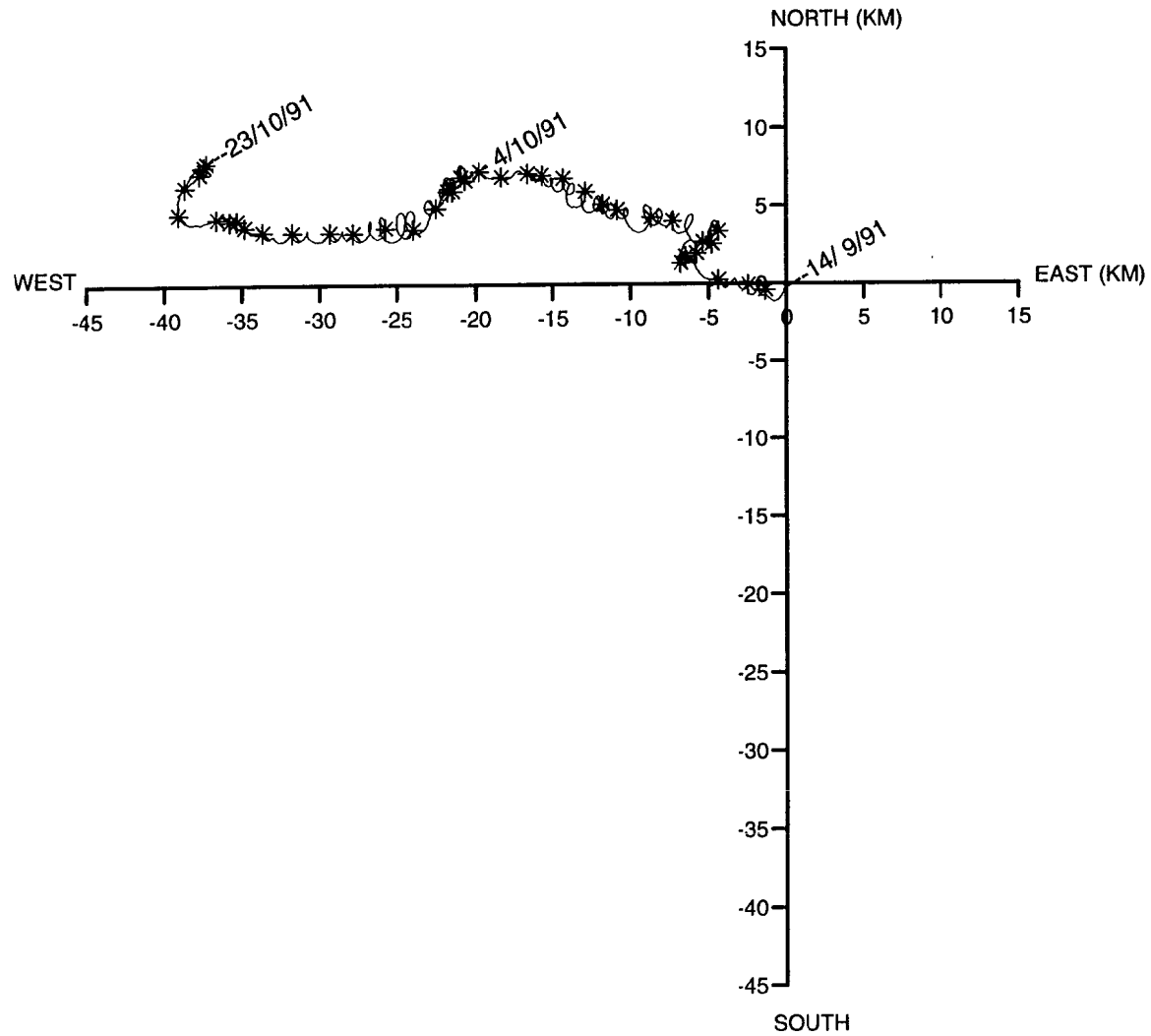
VECTOR PLOT

Meter no. 0003 Rig no. 00502 Depth of water(m) 122.0

Start/End 1991/09/14 AT 15:00:00 1991/10/24 AT 00:00:00

Position 59 39.95N 00 49.16E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0003.00502s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0111	0.88495162E-03	0.29748136E-01
Northings	0.0024	0.18894804E-02	0.43468155E-01
Speed	0.0425	0.10974533E-02	0.33127833E-01
Vector mean speed	0.0113		
Vector Mean Direction	-77.9		

Maximum ten values

Eastings					Northings				
0.122	0.108	0.103	0.100	0.099	0.202	0.169	0.161	0.159	0.156
0.098	0.096	0.089	0.088	0.086	0.155	0.152	0.144	0.143	0.143

Minimum ten values

Eastings					Northings				
-0.125	-0.127	-0.129	-0.130	-0.131	-0.150	-0.150	-0.151	-0.151	-0.151
-0.134	-0.146	-0.154	-0.194	-0.207	-0.155	-0.158	-0.159	-0.161	-0.168

Maximum speeds

0.209	0.208	0.207	0.205	0.190	0.185	0.183	0.180	0.179	0.178
0.177	0.175	0.173	0.172	0.169	0.167	0.167	0.162	0.161	0.159
0.159	0.159	0.157	0.157	0.157	0.156	0.156	0.156	0.155	0.155
0.154	0.154	0.152	0.152	0.152	0.151	0.151	0.151	0.151	0.151
0.151	0.150	0.150	0.150	0.150	0.150	0.149	0.149	0.149	0.147
0.147	0.146	0.145	0.143	0.143	0.143	0.143	0.143	0.143	0.142
0.142	0.142	0.142	0.141	0.141	0.141	0.141	0.140	0.140	0.140
0.140	0.139	0.139	0.138	0.138	0.138	0.138	0.138	0.137	0.137
0.137	0.137	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.135
0.134	0.134	0.133	0.133	0.133	0.133	0.133	0.132	0.132	0.132

Variance ellipse statistics

Maximum variance	0.1911E-02	Direction	8.2
Minimum variance	0.8637E-03	Direction	98.2
Total variance	0.2774E-02	Ratio of variances	0.4521E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-14.9
Average direction. maxdir +PI/2 to maxdir -PI/2			196.7

Statistics for dp0003.00502s7f

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0114	0.11830612E-03	0.10876861E-01
Northings	0.0022	0.68790258E-04	0.82939891E-02
Speed	0.0161	0.59788199E-04	0.77322829E-02
Vector mean speed	0.0116		
Vector Mean Direction	-78.9		

Maximum ten values

Eastings					Northings				
0.016	0.015	0.015	0.015	0.013	0.030	0.028	0.025	0.022	0.021
0.012	0.012	0.009	0.009	0.007	0.016	0.016	0.014	0.012	0.011

Minimum ten values

Eastings					Northings				
-0.025	-0.025	-0.025	-0.026	-0.026	-0.009	-0.009	-0.009	-0.011	-0.012
-0.027	-0.027	-0.028	-0.028	-0.028	-0.015	-0.016	-0.021	-0.022	-0.023

Maximum speeds

0.032	0.032	0.031	0.030	0.030	0.030	0.029	0.028	0.028	0.028
0.027	0.027	0.027	0.027	0.026	0.026	0.026	0.025	0.025	0.025
0.025	0.025	0.024	0.024	0.024	0.024	0.023	0.023	0.023	0.023
0.023	0.023	0.022	0.022	0.022	0.022	0.021	0.021	0.021	0.021
0.021	0.021	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.019
0.019	0.019	0.019	0.019	0.019	0.018	0.018	0.018	0.018	0.017
0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.016
0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.013	0.013	0.013
0.013	0.013	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011
0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010

Variance ellipse statistics

Maximum variance	0.1282E-03	Direction	67.8
Minimum variance	0.5887E-04	Direction	157.8
Total variance	0.1871E-03	Ratio of variances	0.4591E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	-34.6		
Average direction. maxdir +PI/2 to maxdir -PI/2	204.6		

Rig information details for 00503

Position Latitude	:	59 45.51N
Position Longitude	:	01 00.00E
Water depth	:	120.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	GA
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	14-SEP-91 19:38:00
Rig recovered on	:	18-OCT-91 00:20:00
Period of deployment	:	33.2 days
Comments	:	Recovery date set to above due to movement from position on that date. Real recovery on 29 Oct 91 at 10:20:00

Meter information details for 0007

Rig No	:	00503
Meter No	:	0007
Frame angle correction	:	4.9 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	14-SEP-91 18:59:31
Meter stopped	:	18-OCT-91 00:19:26
Period switched on	:	33.2 days
Period of good data	:	33.2 days
Total number of scans	:	4781
Timing error	:	5 seconds fast
Comments	:	Good record obtained

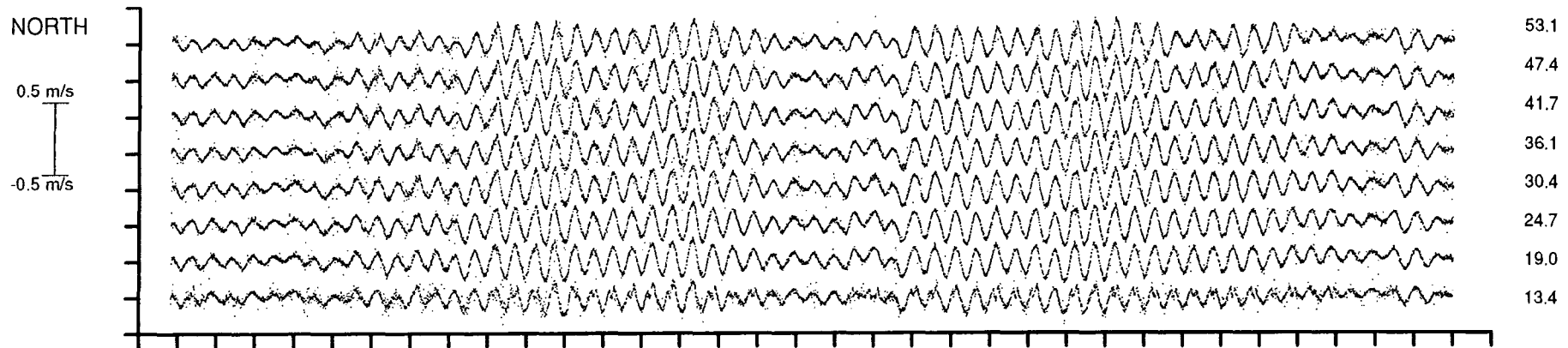
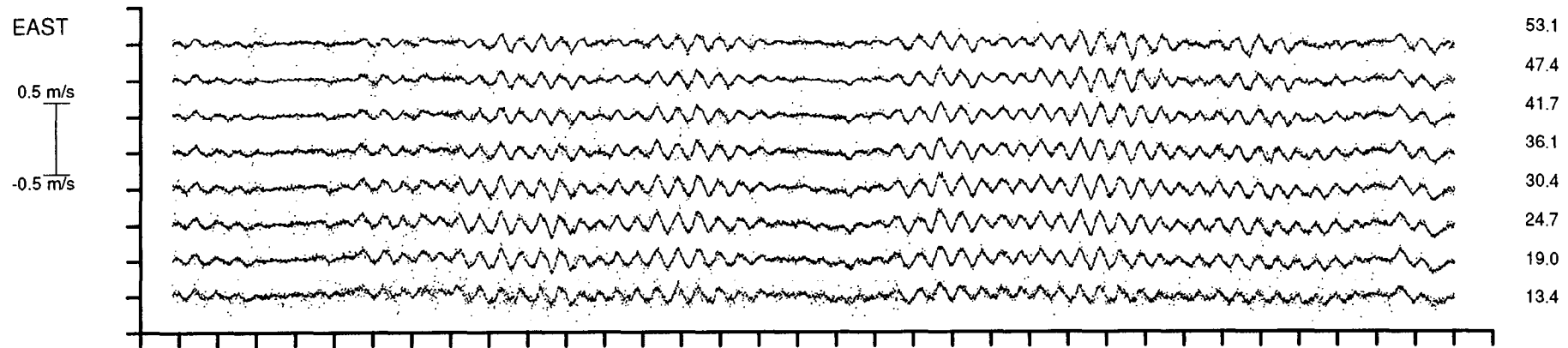
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
91 91
Sep Oct

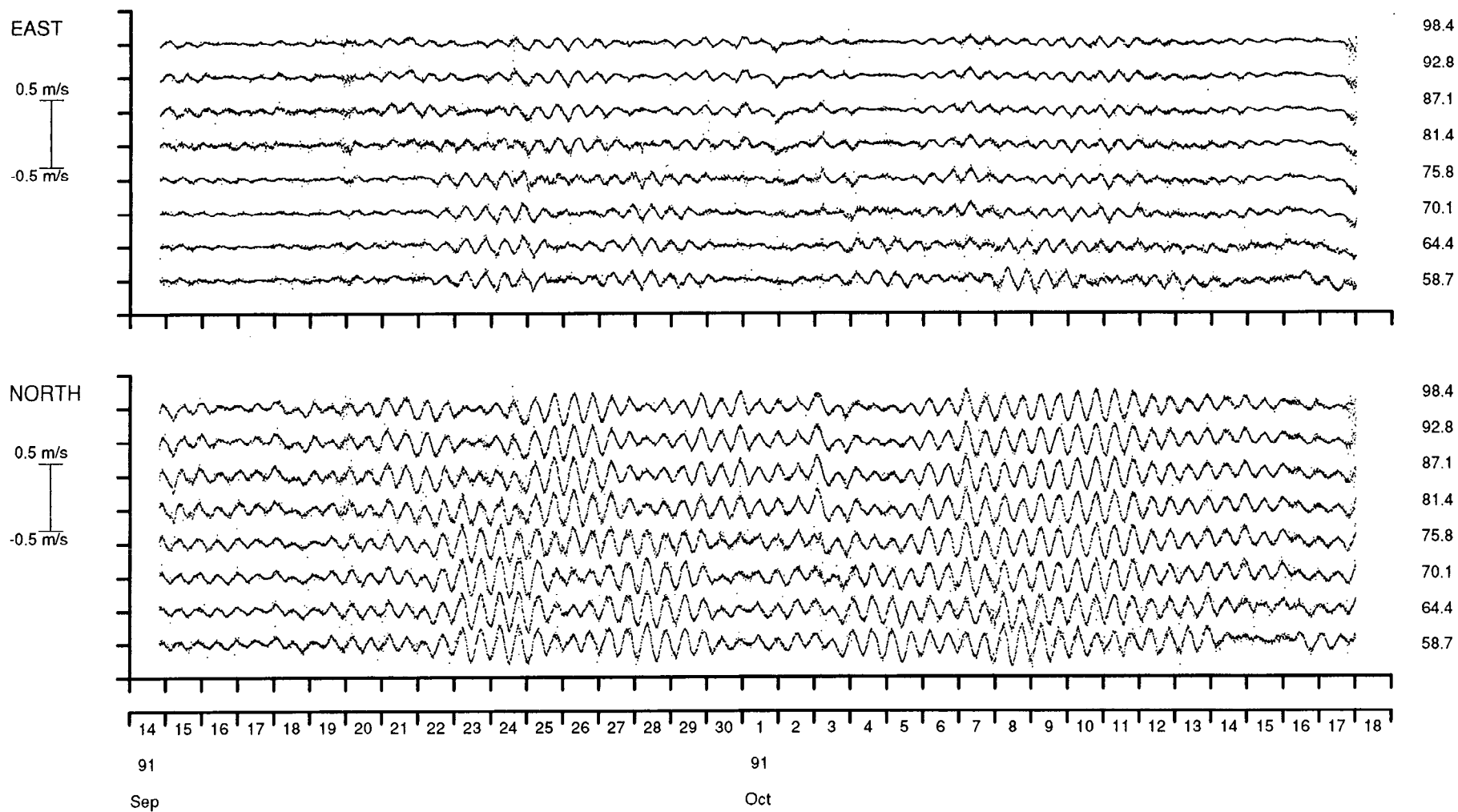
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

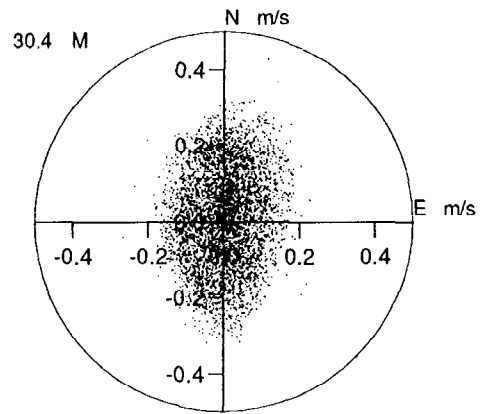
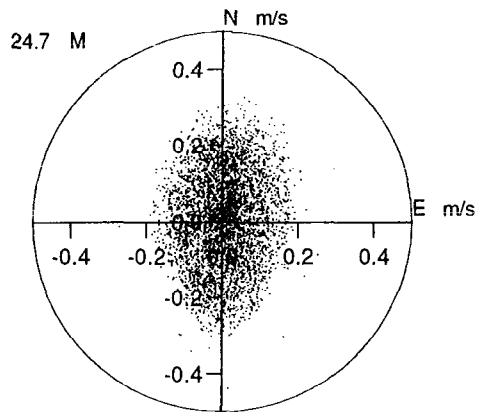
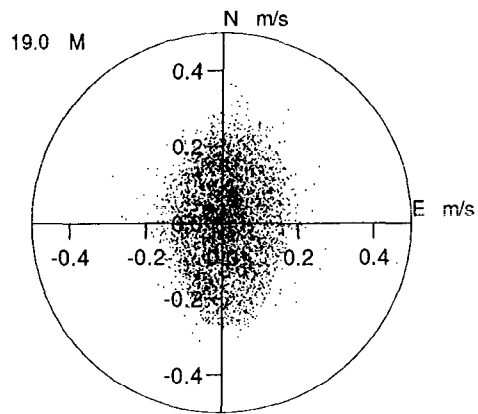
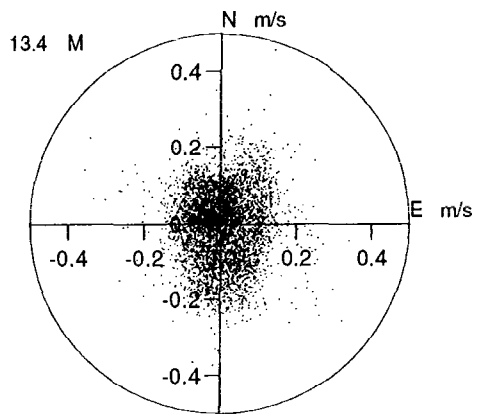
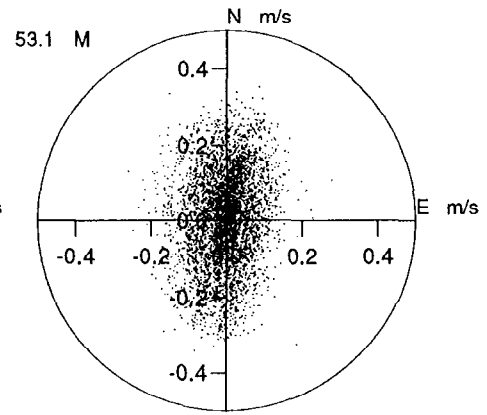
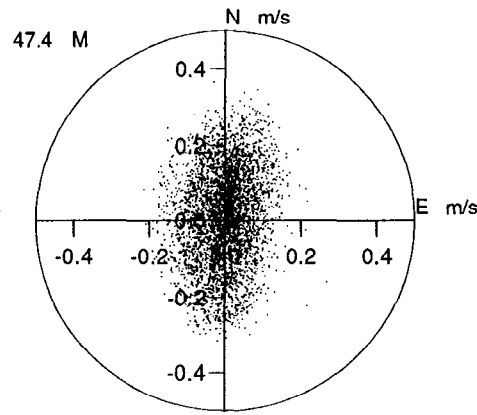
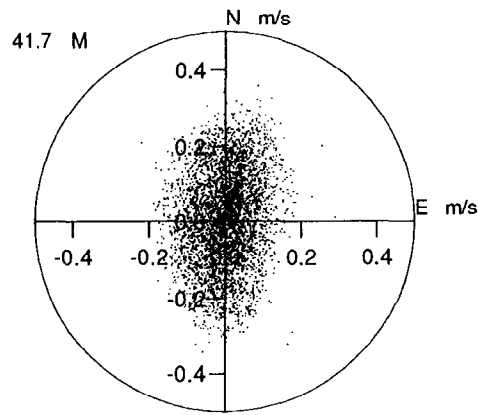
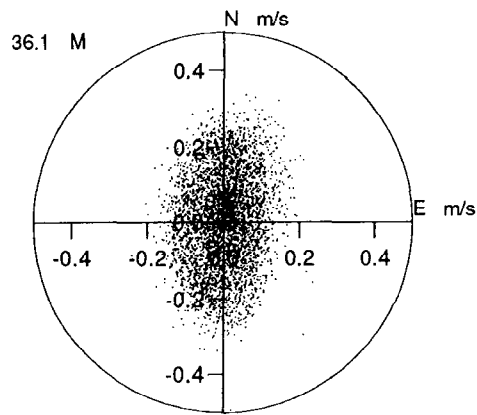


SCATTER PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht

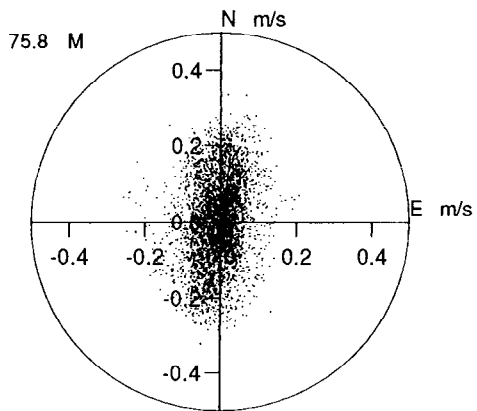
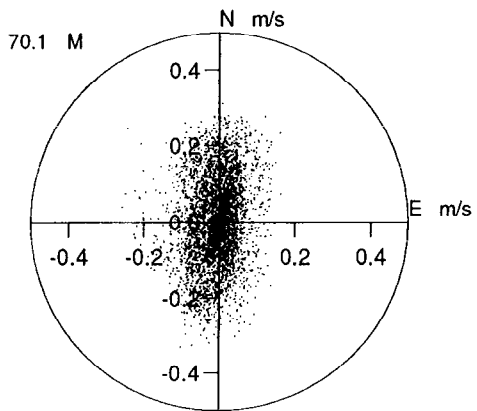
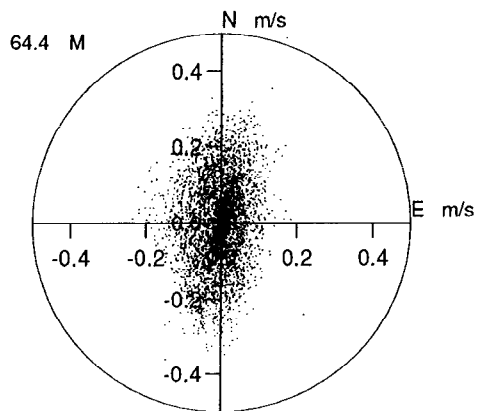
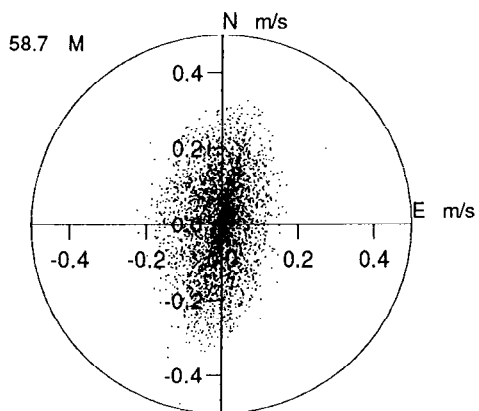
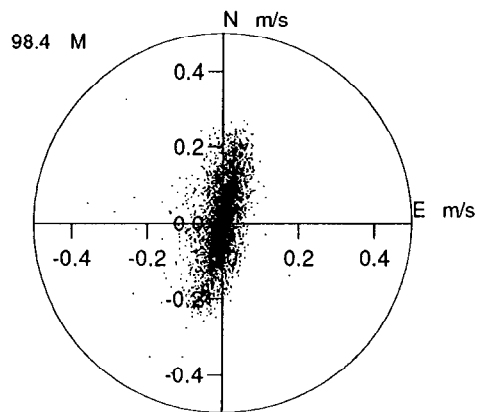
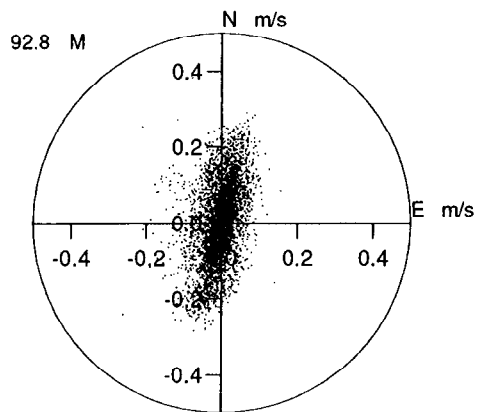
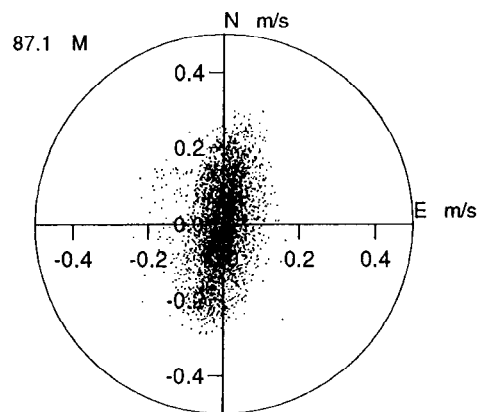
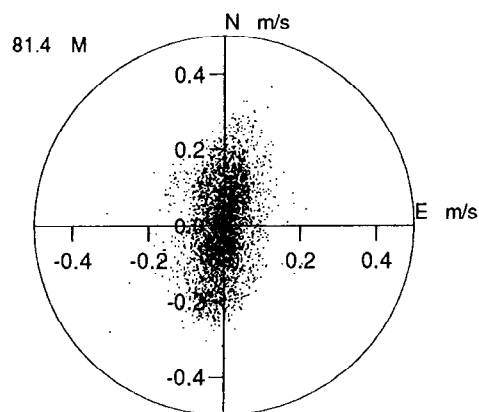


SCATTER PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

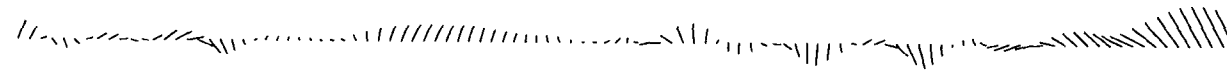
Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht

Filtered series

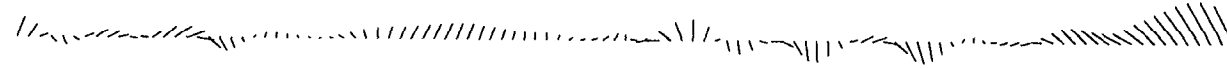
Scale 0.1 m/s



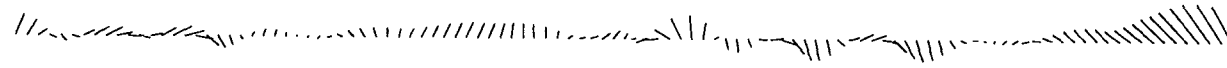
Bin Ht (m)



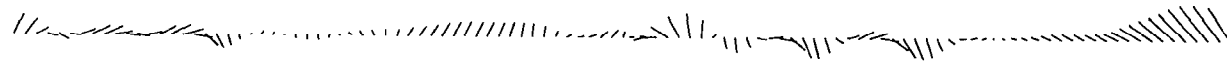
53.1



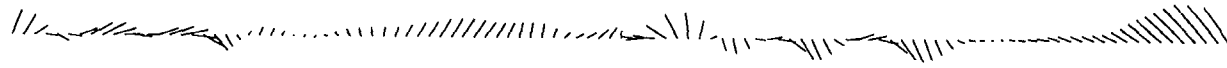
47.4



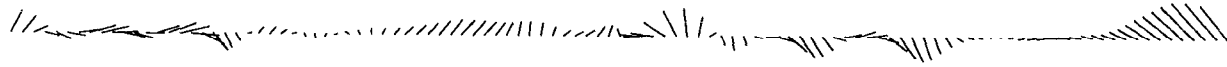
41.7



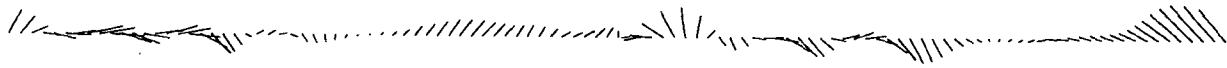
36.1



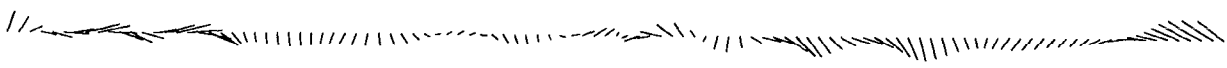
30.4



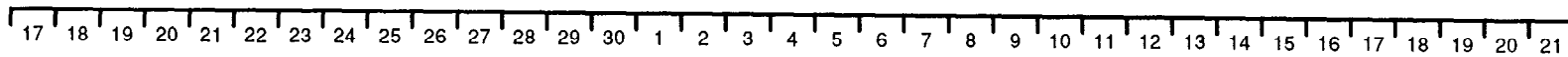
24.7



19.0



13.4



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STICK TIME SERIES PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

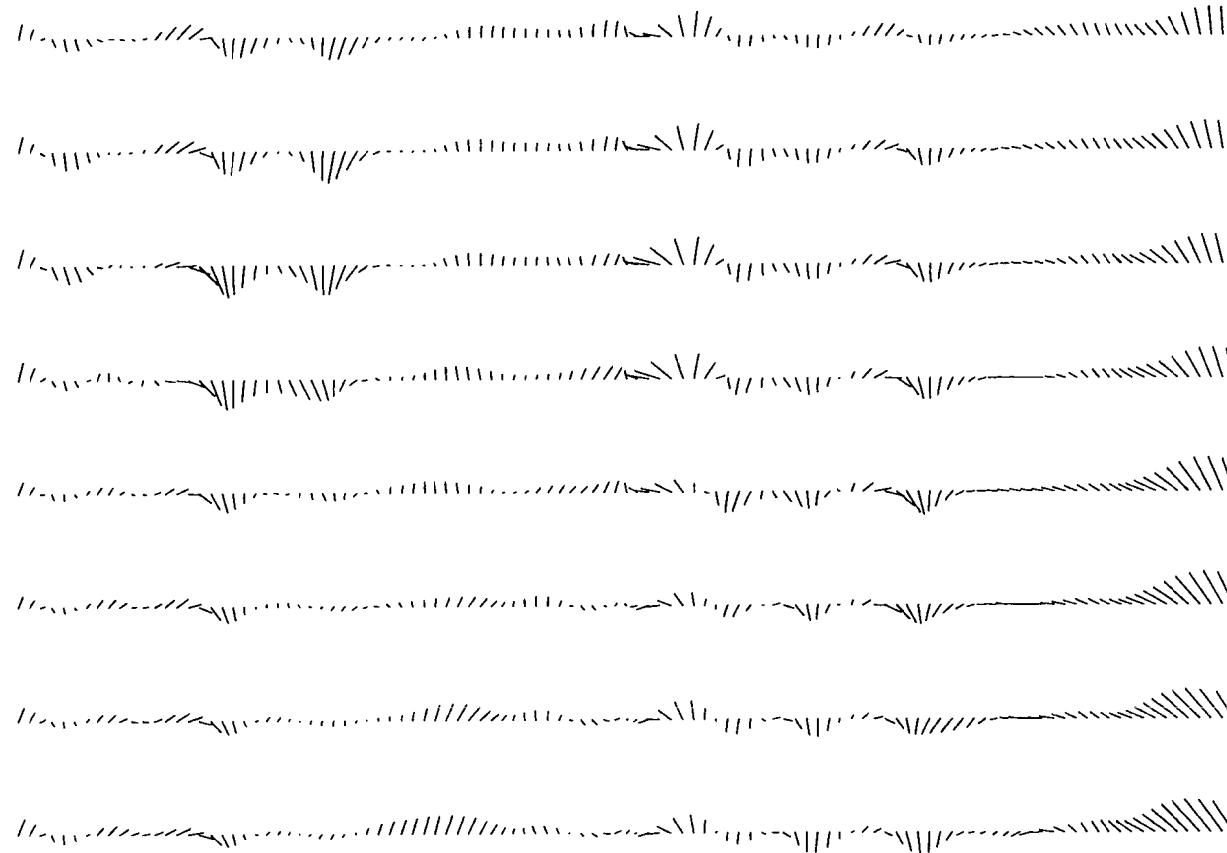
Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s



98.4

92.8

87.1

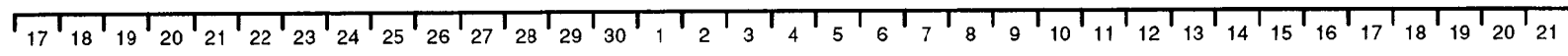
81.4

75.8

70.1

64.4

58.7



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Statistics for dp0007.00503

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.007	126.9	0.0085	1.4	0.0046	91.4
2	19.0	0.013	47.0	0.0139	2.9	0.0049	92.9
3	24.7	0.012	27.3	0.0146	4.2	0.0048	94.2
4	30.4	0.013	14.8	0.0150	5.1	0.0046	95.1
5	36.1	0.012	7.7	0.0144	5.7	0.0038	95.7
6	41.7	0.013	2.8	0.0144	5.8	0.0035	95.8
7	47.4	0.013	-5.5	0.0143	6.3	0.0033	96.3
8	53.1	0.012	-18.0	0.0143	5.8	0.0034	95.8
9	58.7	0.010	-28.5	0.0132	6.0	0.0030	96.0
10	64.4	0.009	-39.3	0.0120	5.9	0.0026	95.9
11	70.1	0.008	-48.2	0.0116	5.5	0.0023	95.5
12	75.8	0.007	-46.9	0.0116	6.9	0.0022	96.9
13	81.4	0.004	-49.5	0.0117	7.5	0.0019	97.5
14	87.1	0.003	-58.2	0.0115	8.3	0.0017	98.3
15	92.8	0.005	-43.5	0.0105	10.1	0.0012	100.1
16	98.4	0.007	-18.4	0.0092	10.8	0.0008	100.8

Statistics for dp0007.00503

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.013	138.5	0.0011	-77.6	0.0004	12.4
2	19.0	0.014	68.0	0.0014	-59.5	0.0004	30.5
3	24.7	0.011	48.7	0.0013	-55.6	0.0004	34.4
4	30.4	0.011	30.4	0.0012	-51.8	0.0004	38.2
5	36.1	0.010	21.5	0.0010	-46.0	0.0003	44.0
6	41.7	0.010	11.2	0.0010	-40.9	0.0003	49.1
7	47.4	0.010	-2.0	0.0009	-36.8	0.0003	53.2
8	53.1	0.009	-16.1	0.0009	-31.9	0.0003	58.1
9	58.7	0.007	-23.4	0.0007	-32.9	0.0003	57.1
10	64.4	0.005	-40.6	0.0006	-40.1	0.0003	49.9
11	70.1	0.006	-56.3	0.0006	-42.0	0.0002	48.0
12	75.8	0.005	-58.6	0.0007	-32.9	0.0003	57.1
13	81.4	0.003	-64.8	0.0009	-20.7	0.0003	69.3
14	87.1	0.002	-96.8	0.0009	-16.6	0.0003	73.4
15	92.8	0.004	-64.8	0.0008	-5.8	0.0002	84.2
16	98.4	0.005	-22.6	0.0006	-0.1	0.0001	89.9

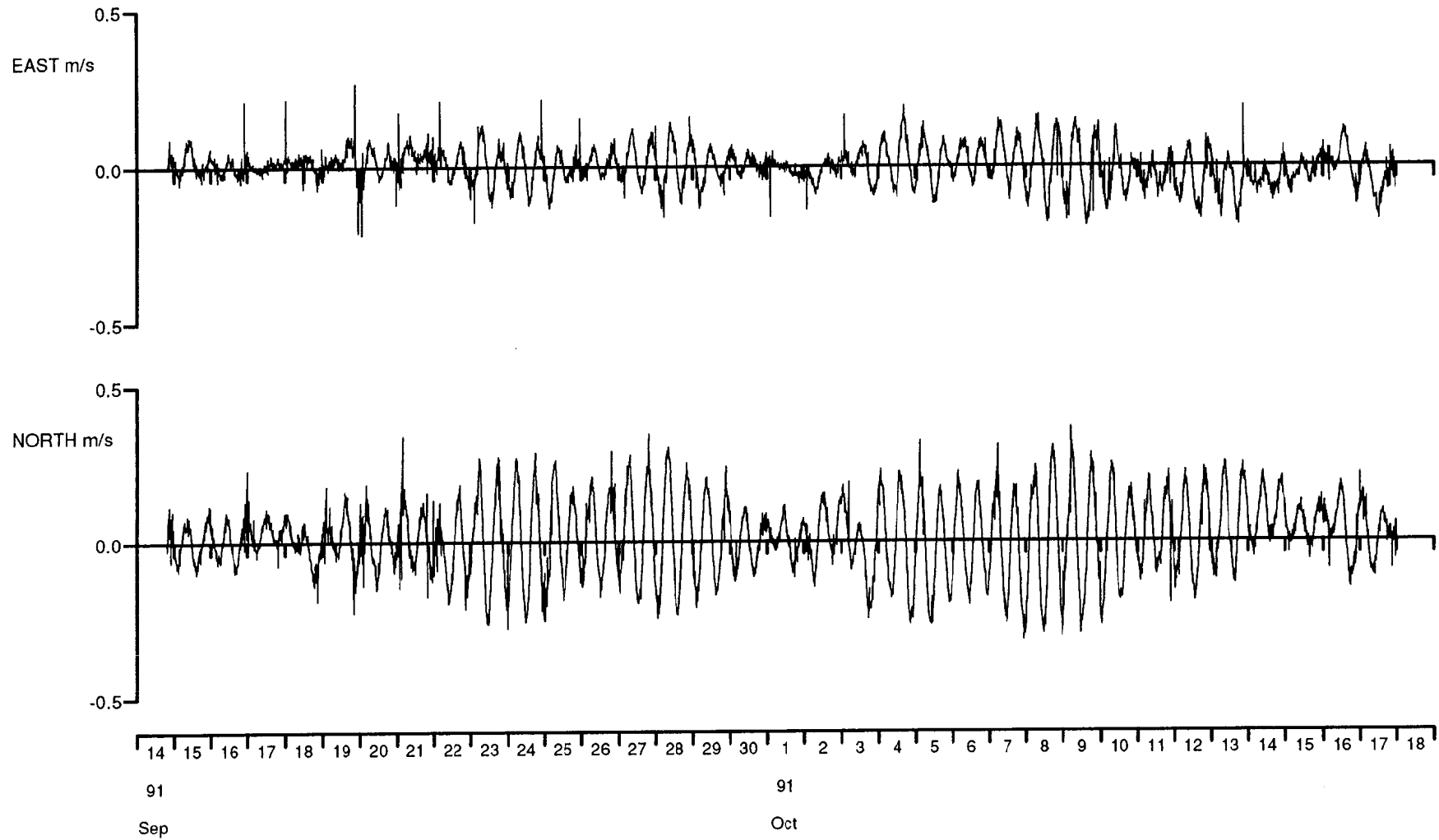
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



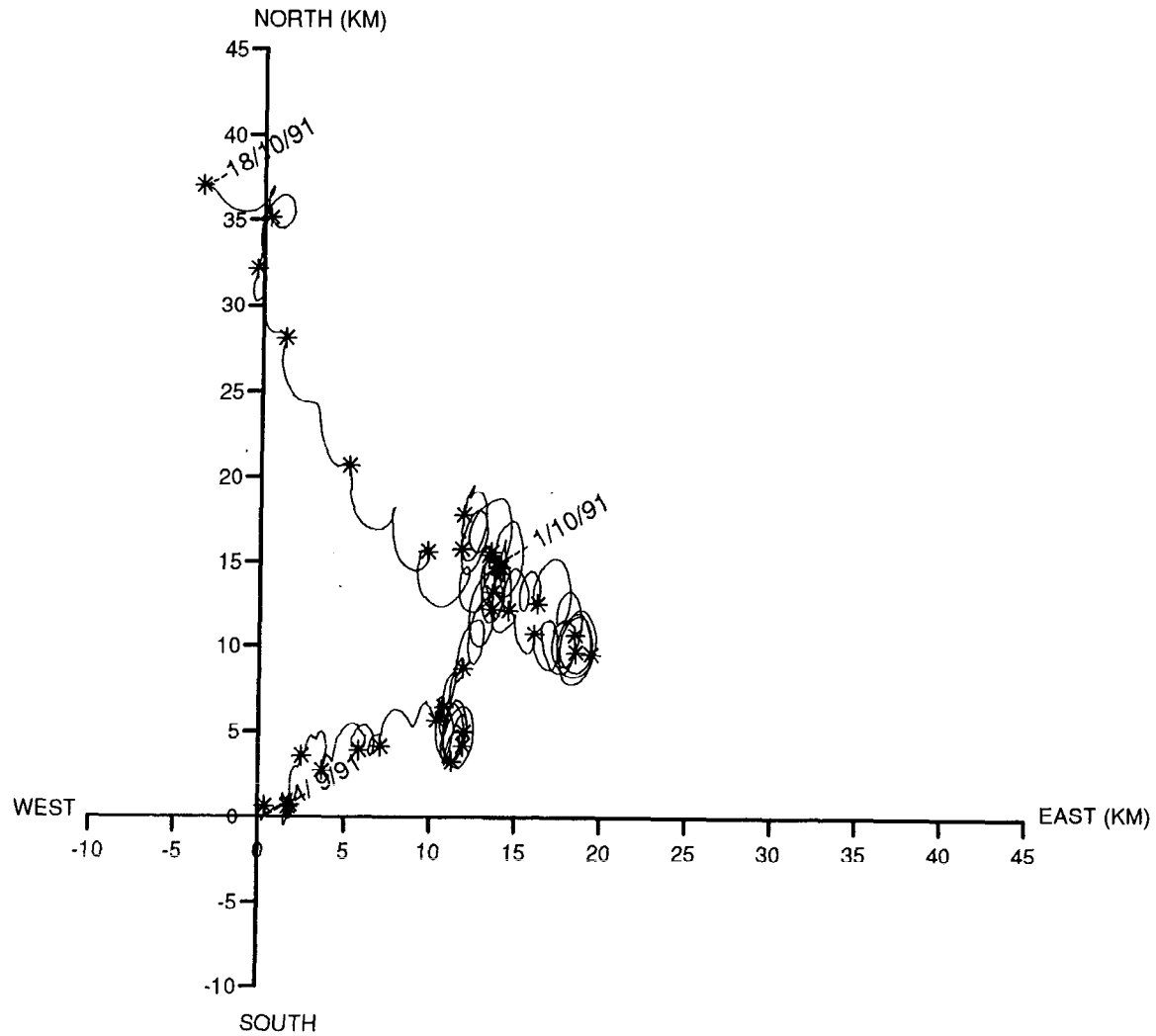
VECTOR PLOT

Meter no. 0007 Rig no. 00503 Depth of water(m) 120.0

Start/End 1991/09/14 AT 19:38:00 1991/10/18 AT 00:20:00

Position 59 45.51N 01 00.00E 13.38 Base Ht 5.67 Gap Ht 47.4 Bin Ht (m)

Bin closest to depth average



Statistics for dp0007.00503s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0013	0.34621598E-02	0.58840122E-01
Northings	0.0129	0.14185338E-01	0.11910222E+00
Speed	0.1152	0.45459643E-02	0.67423768E-01
Vector mean speed	0.0130		
Vector Mean Direction	-5.5		

Maximum ten values

Eastings					Northings				
0.268	0.217	0.216	0.212	0.212	0.365	0.346	0.340	0.321	0.317
0.194	0.191	0.176	0.170	0.169	0.308	0.305	0.304	0.304	0.300

Minimum ten values

Eastings					Northings				
-0.178	-0.179	-0.180	-0.181	-0.186	-0.286	-0.287	-0.290	-0.291	-0.295
-0.190	-0.190	-0.191	-0.208	-0.215	-0.296	-0.297	-0.298	-0.307	-0.317

Maximum speeds

0.367	0.357	0.343	0.329	0.328	0.319	0.317	0.312	0.310	0.309
0.309	0.307	0.305	0.305	0.305	0.304	0.302	0.302	0.301	0.300
0.300	0.299	0.298	0.298	0.296	0.296	0.296	0.295	0.295	0.294
0.293	0.292	0.291	0.290	0.290	0.290	0.289	0.289	0.289	0.288
0.288	0.287	0.287	0.287	0.287	0.286	0.286	0.286	0.285	0.285
0.284	0.284	0.283	0.283	0.283	0.283	0.283	0.282	0.282	0.282
0.281	0.281	0.280	0.279	0.279	0.278	0.278	0.277	0.277	0.277
0.277	0.276	0.275	0.275	0.275	0.275	0.274	0.274	0.274	0.274
0.273	0.272	0.272	0.272	0.271	0.271	0.271	0.271	0.271	0.270
0.269	0.269	0.268	0.268	0.268	0.268	0.268	0.267	0.267	0.266

Variance ellipse statistics

Maximum variance	0.1432E-01	Direction	6.3
Minimum variance	0.3331E-02	Direction	96.3
Total variance	0.1765E-01	Ratio of variances	0.2327E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-0.9
Average direction. maxdir +PI/2 to maxdir -PI/2			180.7

Statistics for dp0007.00503s7f

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0004	0.50078041E-03	0.22378124E-01
Northings	0.0102	0.68136933E-03	0.26103051E-01
Speed	0.0292	0.42857404E-03	0.20702031E-01
Vector mean speed	0.0102		
Vector Mean Direction	-2.0		

Maximum ten values

Eastings					Northings				
0.041	0.037	0.037	0.030	0.029	0.090	0.089	0.083	0.081	0.071
0.028	0.028	0.027	0.025	0.024	0.061	0.052	0.045	0.042	0.041

Minimum ten values

Eastings					Northings				
-0.042	-0.043	-0.043	-0.044	-0.047	-0.024	-0.028	-0.028	-0.029	-0.030
-0.048	-0.050	-0.052	-0.053	-0.054	-0.039	-0.040	-0.042	-0.042	-0.046

Maximum speeds

0.103	0.102	0.097	0.093	0.088	0.079	0.070	0.060	0.052	0.048
0.047	0.047	0.047	0.046	0.045	0.045	0.045	0.045	0.044	0.043
0.042	0.042	0.042	0.042	0.041	0.038	0.036	0.036	0.035	0.035
0.035	0.035	0.035	0.034	0.033	0.033	0.033	0.033	0.033	0.032
0.031	0.031	0.031	0.030	0.030	0.030	0.029	0.029	0.028	0.028
0.027	0.027	0.026	0.026	0.025	0.025	0.025	0.023	0.023	0.023
0.022	0.022	0.022	0.022	0.022	0.021	0.020	0.020	0.020	0.019
0.019	0.018	0.017	0.017	0.017	0.017	0.016	0.016	0.015	0.015
0.015	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.011	0.011
0.011	0.011	0.011	0.011	0.010	0.010	0.009	0.009	0.009	0.008

Variance ellipse statistics

Maximum variance	0.9108E-03	Direction	-36.8
Minimum variance	0.2713E-03	Direction	53.2
Total variance	0.1182E-02	Ratio of variances	0.2979E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			21.4
Average direction. maxdir +PI/2 to maxdir -PI/2			153.2

Rig information details for 00504

Position Latitude	:	59 40.00N
Position Longitude	:	00 32.37E
Water depth	:	129.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	HA1
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 15:56:00
Rig recovered on	:	14-SEP-91 12:25:00
Period of deployment	:	6.9 days
Comments	:	Launch and recovery successful

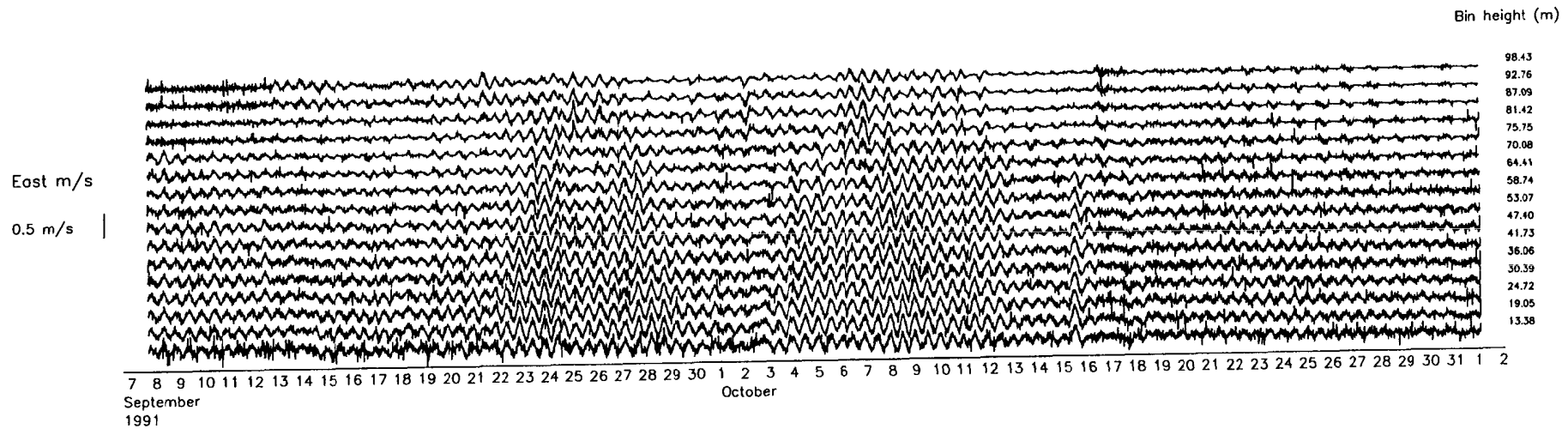
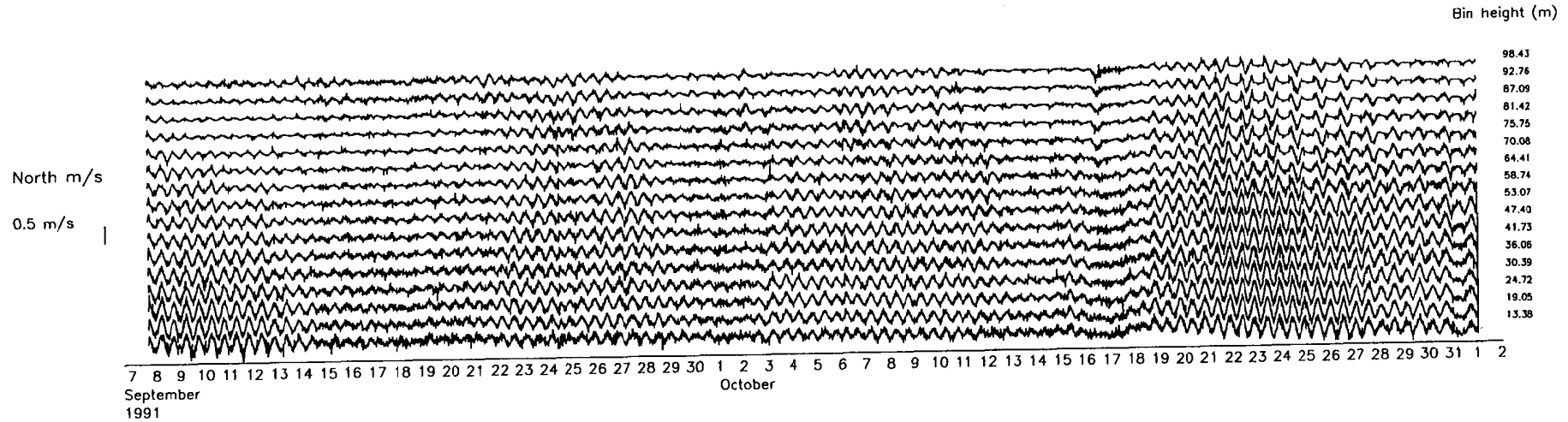
TIME SERIES PLOTS

Meter No. 0009 Site HA Data Taken from 2 Consecutive Deployments

1. Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

2. Start/End 1991/09/14 AT 15:00:00 1991/10/16 AT 12:50:00

Position 59 40.00N 00 32.37E Water Depth(m) 129.0



Meter information details for 0009

Rig No	:	00504
Meter No	:	0009
Frame angle correction	:	9.9 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	07-SEP-91 15:29:16
Meter stopped	:	14-SEP-91 12:09:23
Period switched on	:	6.9 days
Period of good data	:	6.8 days
Total number of scans	:	985
Timing error	:	7 seconds slow
Comments	:	Good record obtained

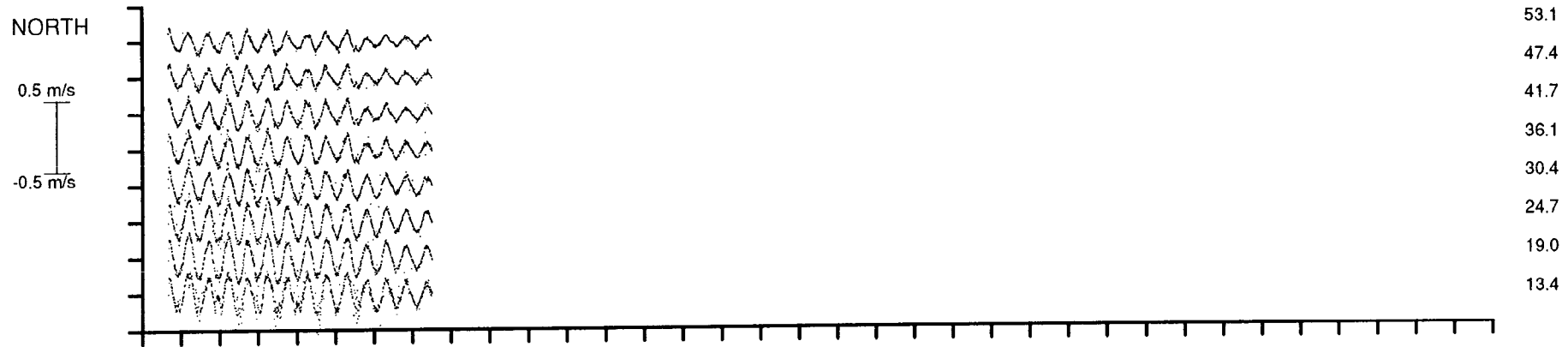
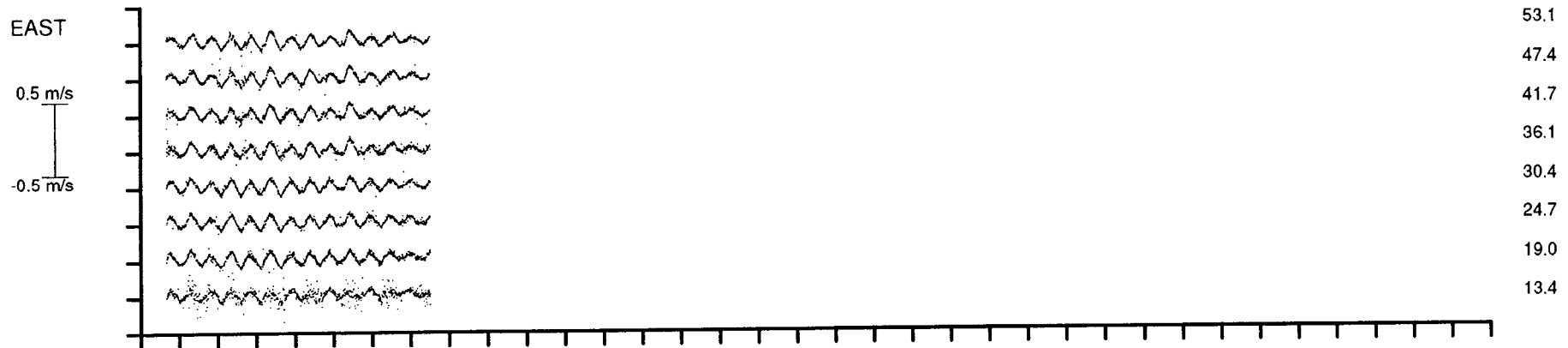
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11

91 91

Sep Oct

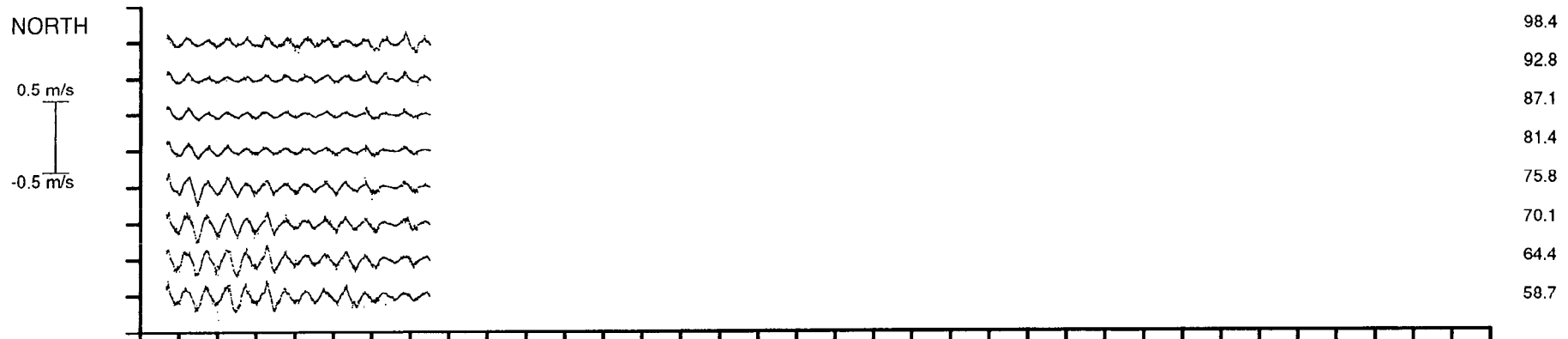
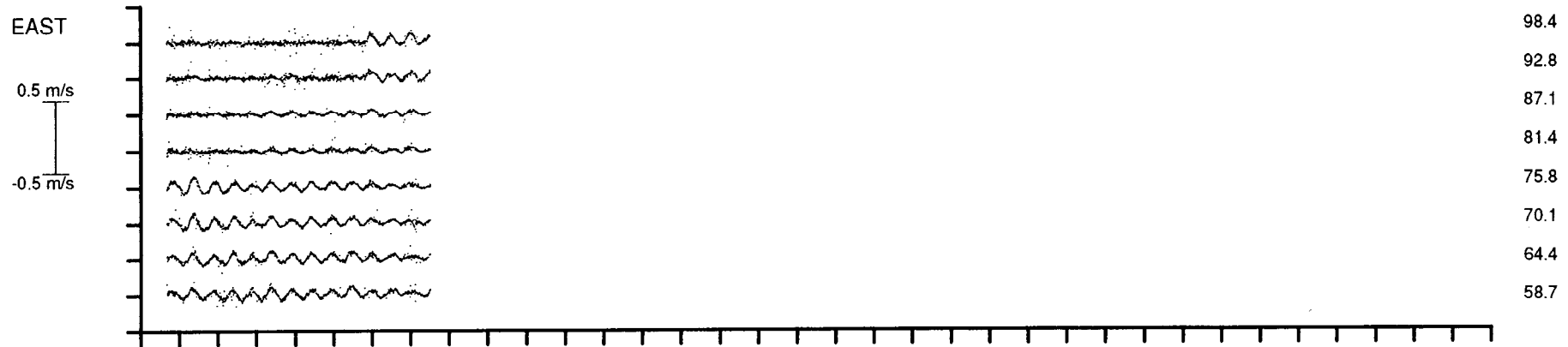
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11

91 91

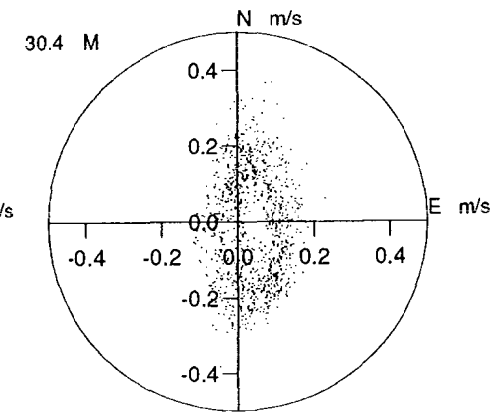
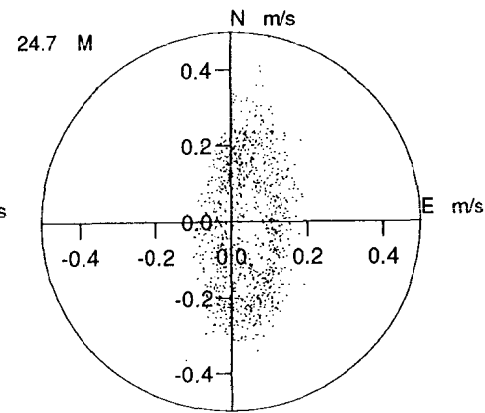
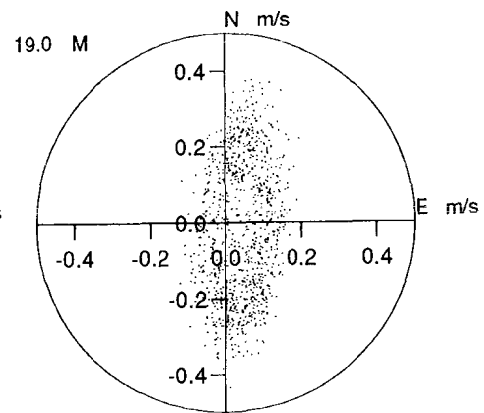
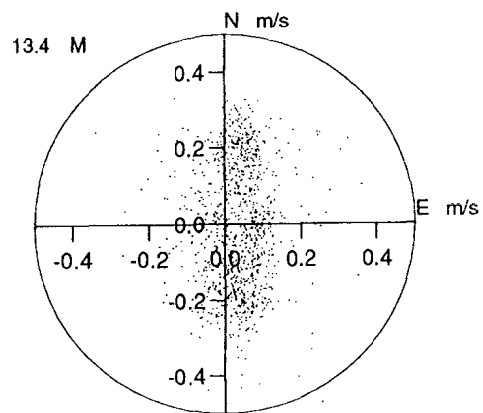
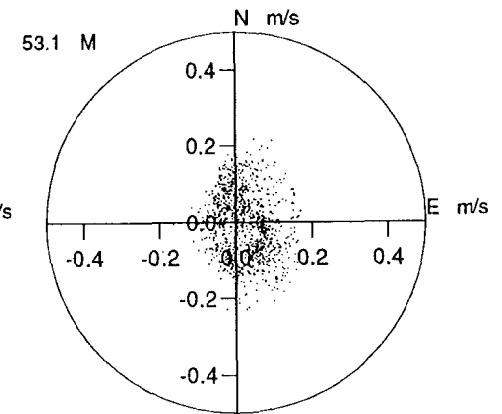
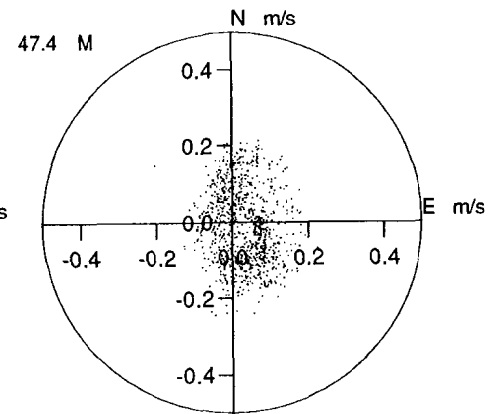
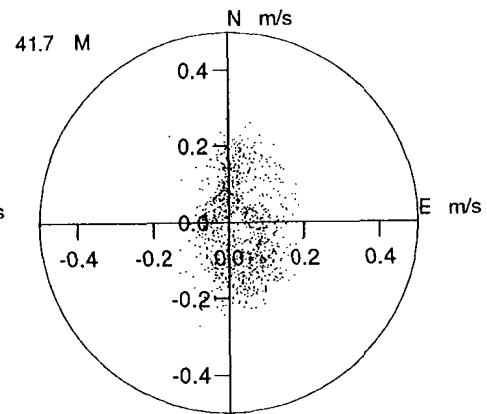
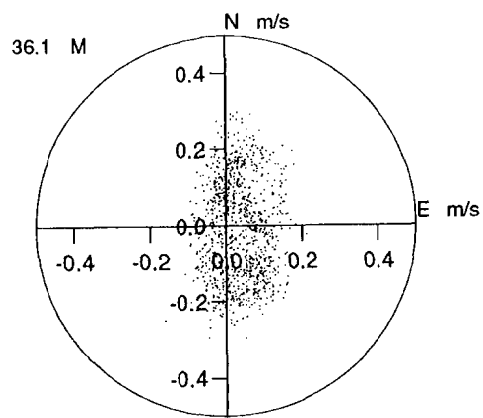
Sep Oct

SCATTER PLOT

Meter no. 0009 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E 13.38 Base Ht 5.67 Gap Ht

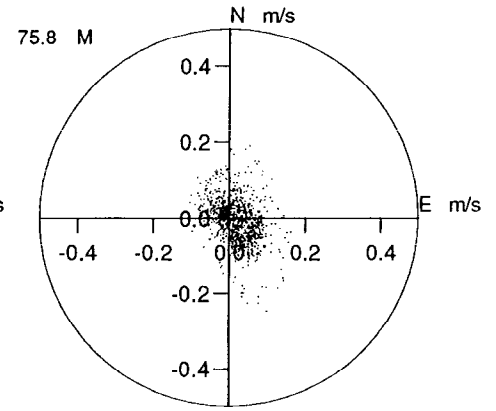
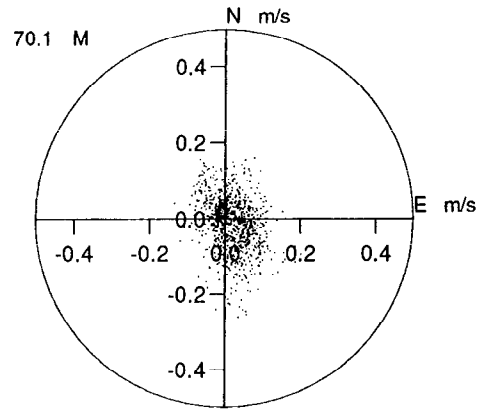
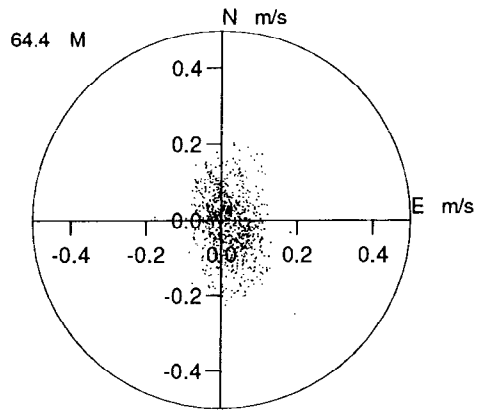
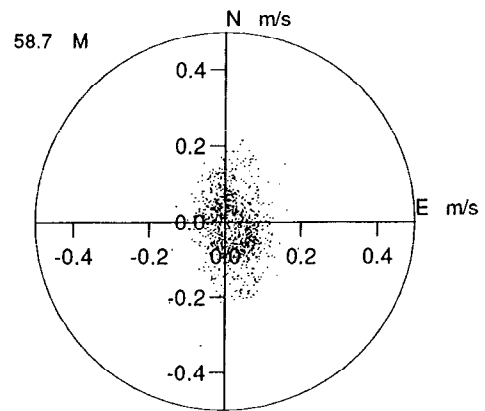
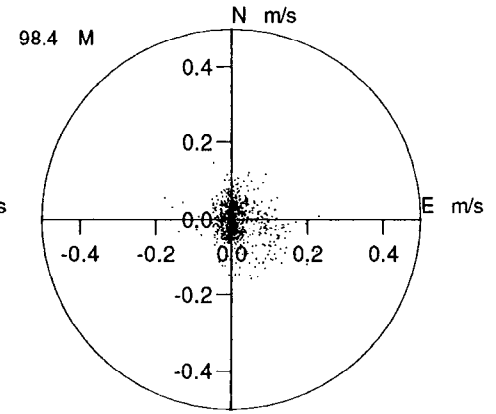
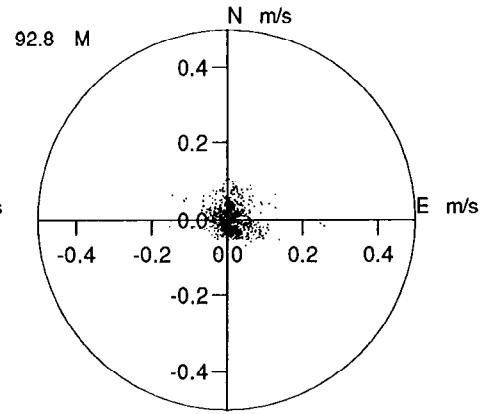
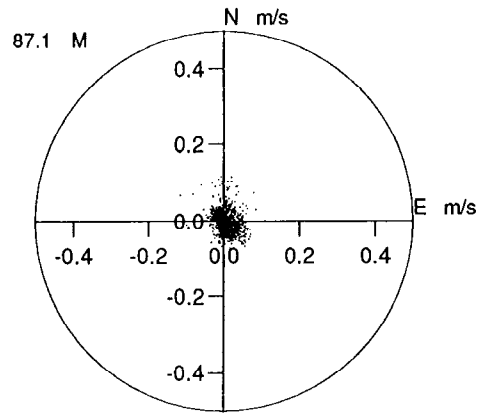
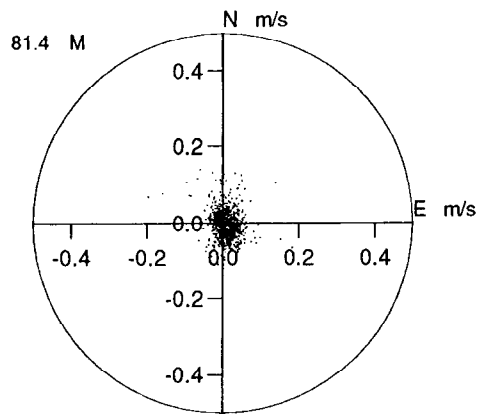


SCATTER PLOT

Meter no. 0009 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E 13.38 Base Ht 5.67 Gap Ht



Statistics for dp0009.00504

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.035	95.6	0.0272	1.4	0.0050	91.4
2	19.0	0.044	104.8	0.0321	3.3	0.0033	93.3
3	24.7	0.043	105.4	0.0267	1.9	0.0038	91.9
4	30.4	0.042	110.3	0.0201	-0.3	0.0040	89.7
5	36.1	0.036	109.7	0.0164	-0.3	0.0035	89.7
6	41.7	0.032	106.3	0.0128	-3.2	0.0034	86.8
7	47.4	0.031	105.4	0.0096	-8.3	0.0034	81.7
8	53.1	0.027	105.9	0.0075	-12.0	0.0030	78.0
9	58.7	0.022	113.2	0.0065	-8.4	0.0021	81.6
10	64.4	0.024	117.7	0.0061	-10.4	0.0020	79.6
11	70.1	0.023	123.8	0.0051	-17.9	0.0018	72.1
12	75.8	0.021	114.8	0.0037	-25.1	0.0014	64.9
13	81.4	0.009	116.2	0.0013	-15.3	0.0006	74.7
14	87.1	0.008	103.1	0.0010	-19.0	0.0005	71.0
15	92.8	0.009	85.4	0.0013	-55.1	0.0009	34.9
16	98.4	0.012	115.0	0.0022	-31.9	0.0014	58.1

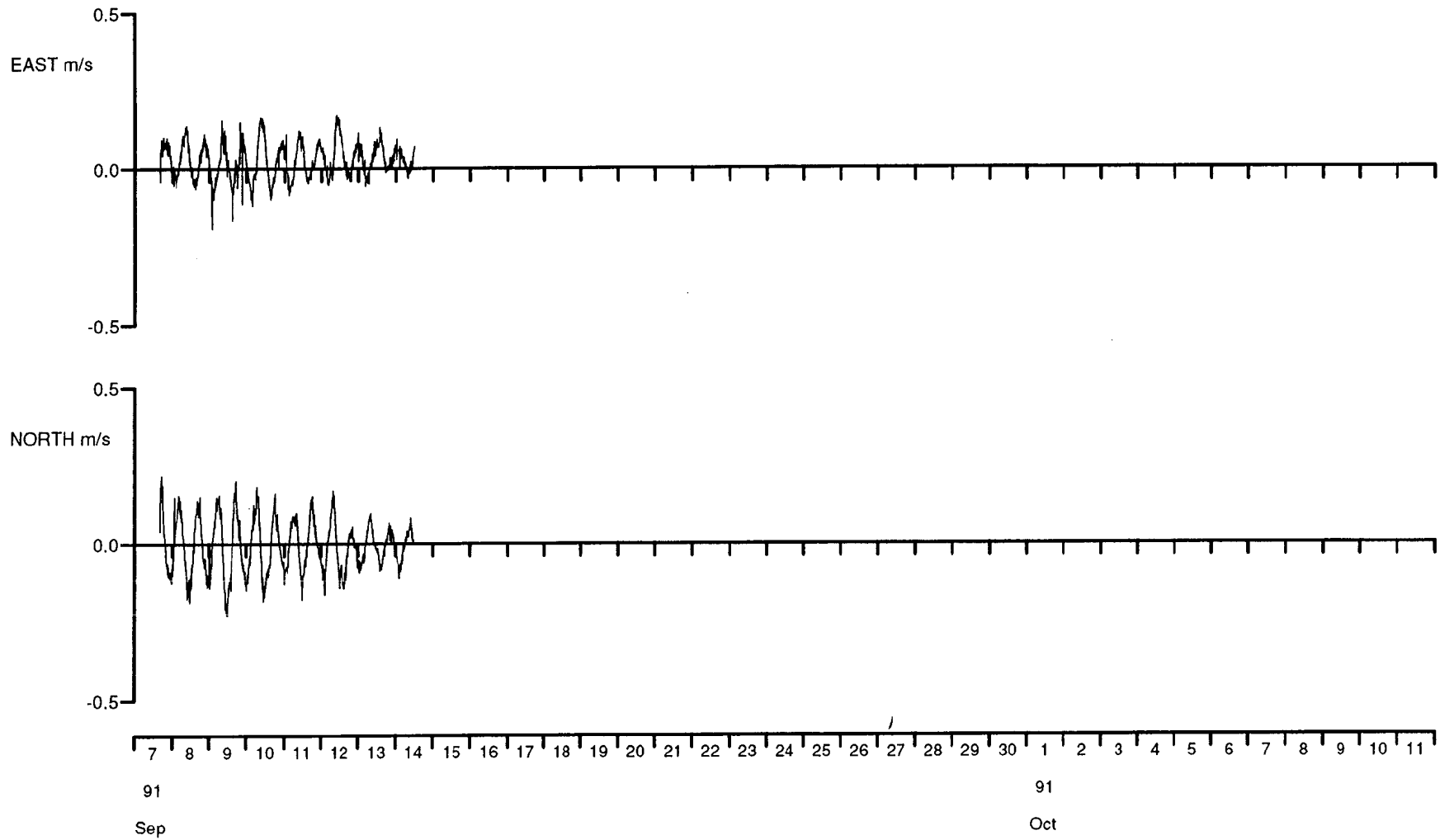
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E 13.38 Base Ht 5.67 Gap Ht 53.1 Bin Ht (m)

Bin closest to depth average



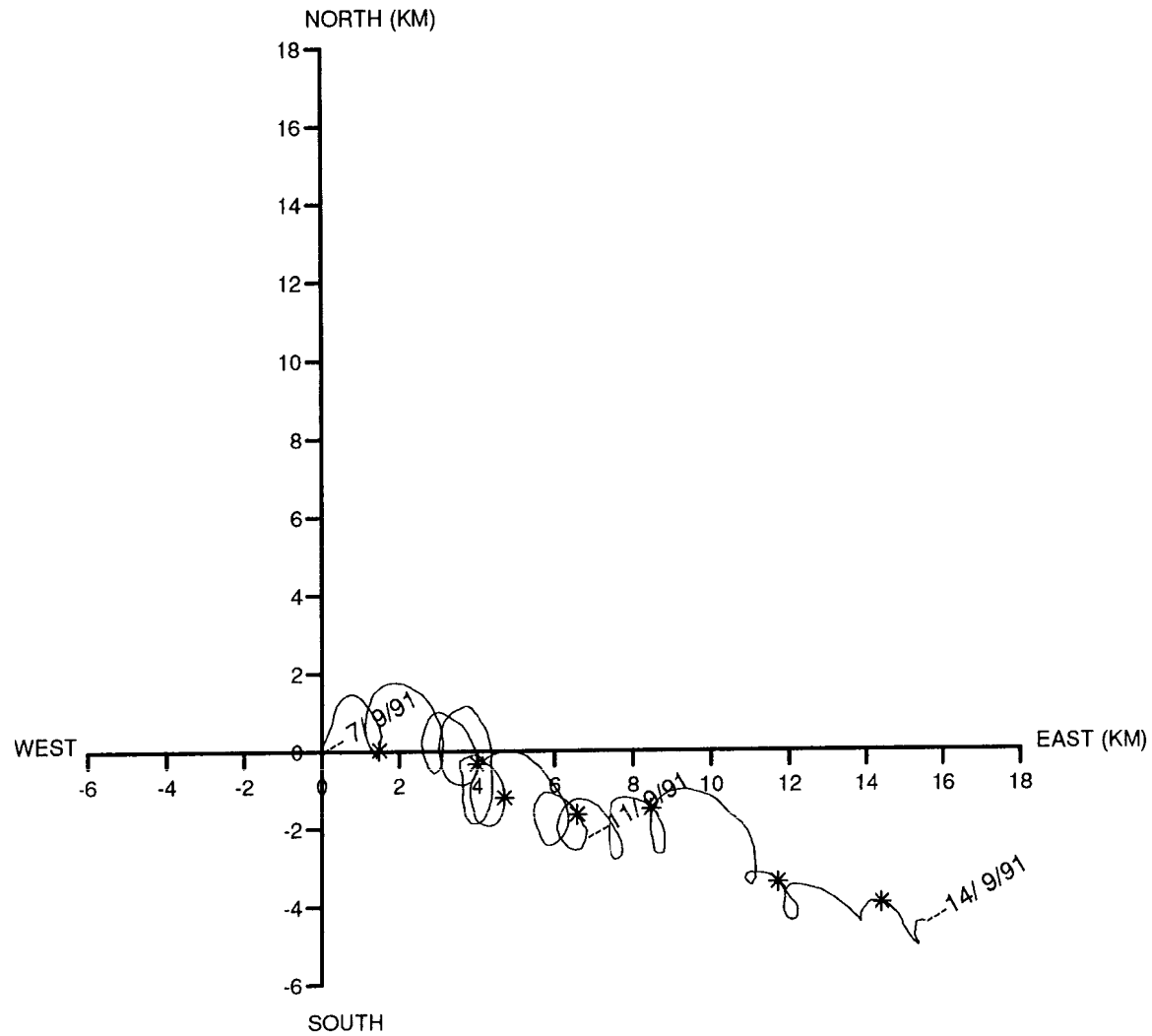
VECTOR PLOT

Meter no. 0009 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E 13.38 Base Ht 5.67 Gap Ht 53.1 Bin Ht (m)

Bin closest to depth average



Statistics for dp0009.00504s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	0.0294	0.35550820E-02	0.59624508E-01
Northings	-0.0081	0.95186755E-02	0.97563699E-01
Speed	0.1082	0.22968592E-02	0.47925558E-01
Vector mean speed	0.0305		
Vector Mean Direction	105.4		

Maximum ten values

Eastings					Northings				
0.224	0.191	0.191	0.184	0.180	0.212	0.207	0.206	0.205	0.203
0.179	0.179	0.177	0.177	0.176	0.200	0.197	0.196	0.192	0.191

Minimum ten values

Eastings					Northings				
-0.094	-0.099	-0.100	-0.100	-0.102	-0.194	-0.196	-0.202	-0.210	-0.218
-0.113	-0.126	-0.127	-0.130	-0.206	-0.234	-0.234	-0.238	-0.238	-0.243

Maximum speeds

0.254	0.247	0.244	0.241	0.238	0.234	0.234	0.228	0.223	0.221
0.219	0.216	0.215	0.213	0.212	0.210	0.210	0.208	0.208	0.207
0.207	0.206	0.206	0.206	0.205	0.205	0.204	0.204	0.202	0.201
0.201	0.198	0.197	0.196	0.196	0.195	0.195	0.194	0.193	0.193
0.193	0.192	0.192	0.192	0.192	0.192	0.191	0.191	0.191	0.191
0.191	0.190	0.190	0.190	0.190	0.189	0.189	0.189	0.189	0.188
0.188	0.187	0.187	0.187	0.187	0.186	0.186	0.185	0.184	0.184
0.184	0.183	0.183	0.182	0.182	0.182	0.182	0.182	0.181	0.181
0.181	0.181	0.181	0.180	0.180	0.180	0.180	0.180	0.180	0.180
0.180	0.179	0.179	0.178	0.178	0.177	0.177	0.177	0.177	0.177

Variance ellipse statistics

Maximum variance	0.9647E-02	Direction	-8.3
Minimum variance	0.3426E-02	Direction	81.7
Total variance	0.1307E-01	Ratio of variances	0.3552E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			14.3
Average direction. maxdir +PI/2 to maxdir -PI/2			163.6

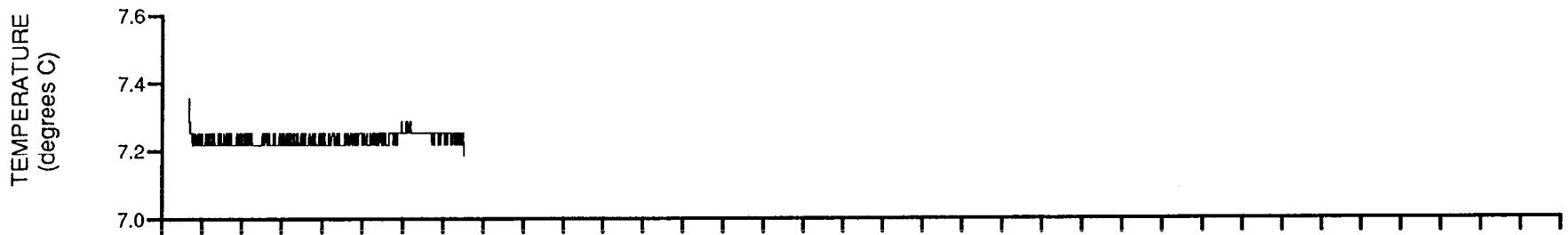
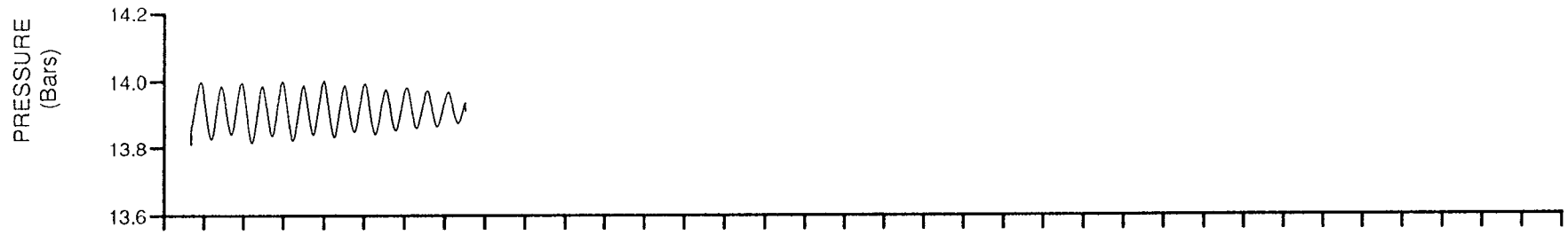
Meter information details for 1038

Rig No	:	00504
Meter No	:	1038
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Position of meter on rig	:	A
Meter type	:	WR
Meter started	:	07-SEP-91 13:50:40
Meter stopped	:	14-SEP-91 12:30:00
Period switched on	:	6.9 days
Period of good data	:	6.9 days
Total number of scans	:	987
Timing error	:	40 seconds fast
Comments	:	Good record obtained

Meter no. 1038 Rig no. 00504 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:56:00 1991/09/14 AT 12:25:00

Position 59 40.00N 00 32.37E Meter Height(m) 0.8



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
91 91
Sep Oct

Rig information details for 00513

Position Latitude	:	59 39.98N
Position Longitude	:	00 32.48E
Water depth	:	130.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C85
Site name identification	:	HA2
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	14-SEP-91 15:00:00
Rig recovered on	:	02-NOV-91 04:00:00
Period of deployment	:	48.5 days
Comments	:	Rig movement on 18 Oct 91

Meter information details for 0009

Rig No	:	00513
Meter No	:	0009
Frame angle correction	:	-17.3 degrees
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Meter type	:	DP
Meter started	:	14-SEP-91 14:19:24
Time of last valid scan	:	01-NOV-91 03:49:24
Period of good data	:	47.5 days short record
Total number of scans	:	6845
Timing error	:	None
Comments	:	Frame movement was not registered by tilt meters or compass Tidal analysis revealed major timing errors with this meter

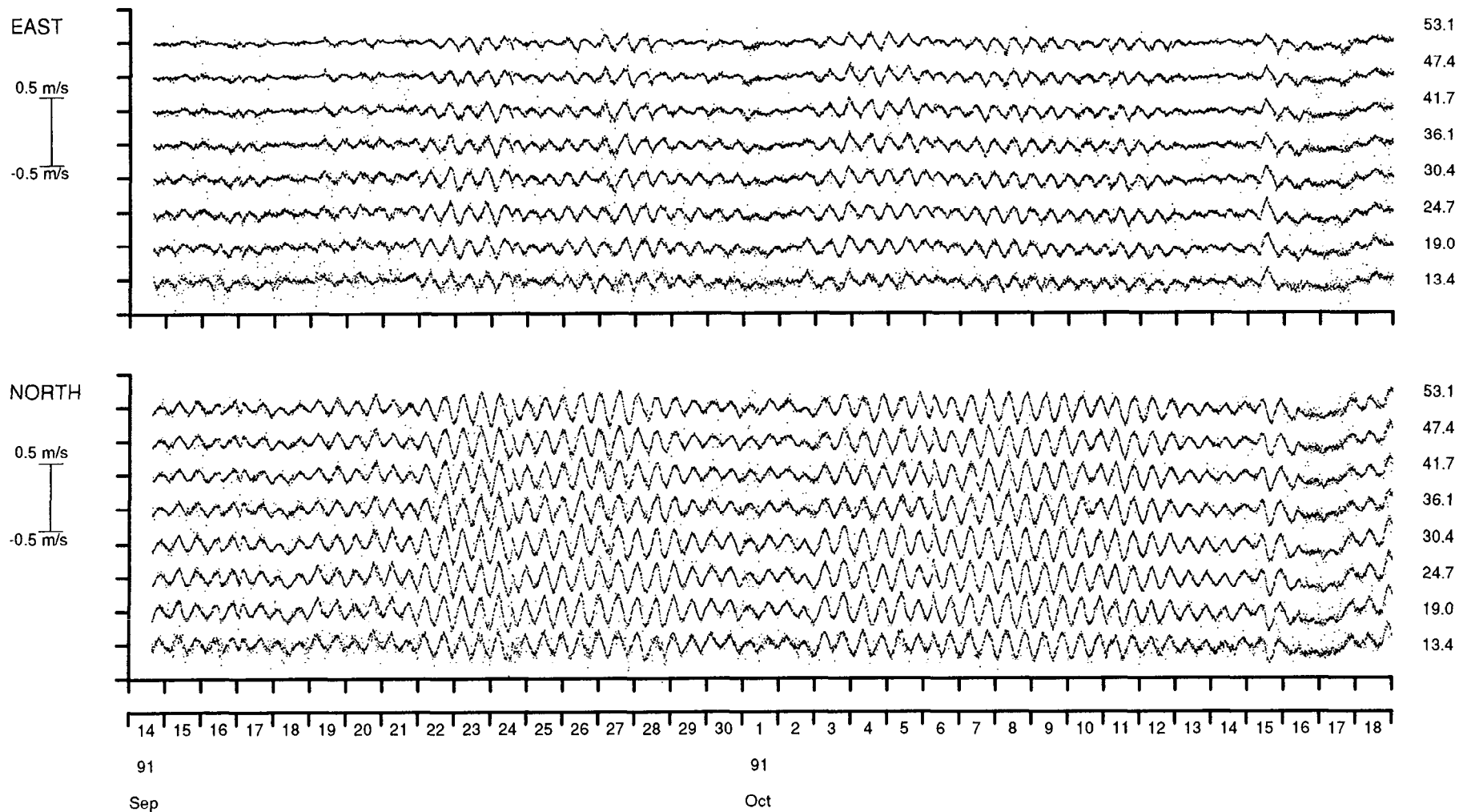
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



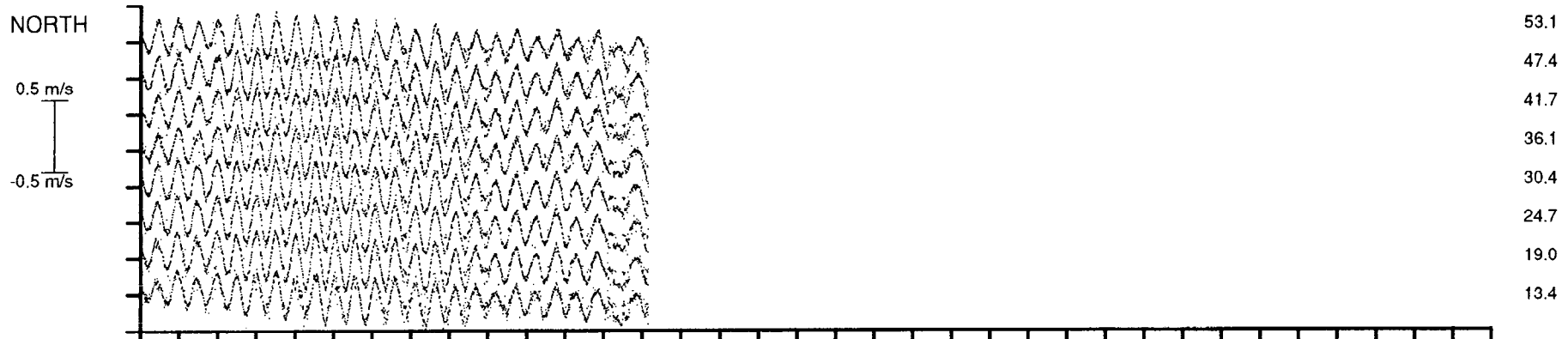
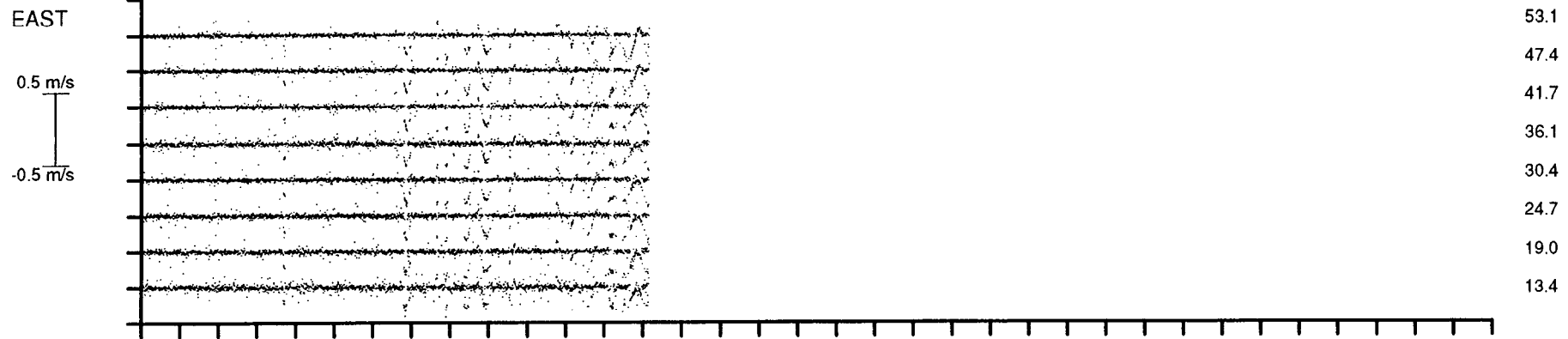
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

91 91

Oct Nov

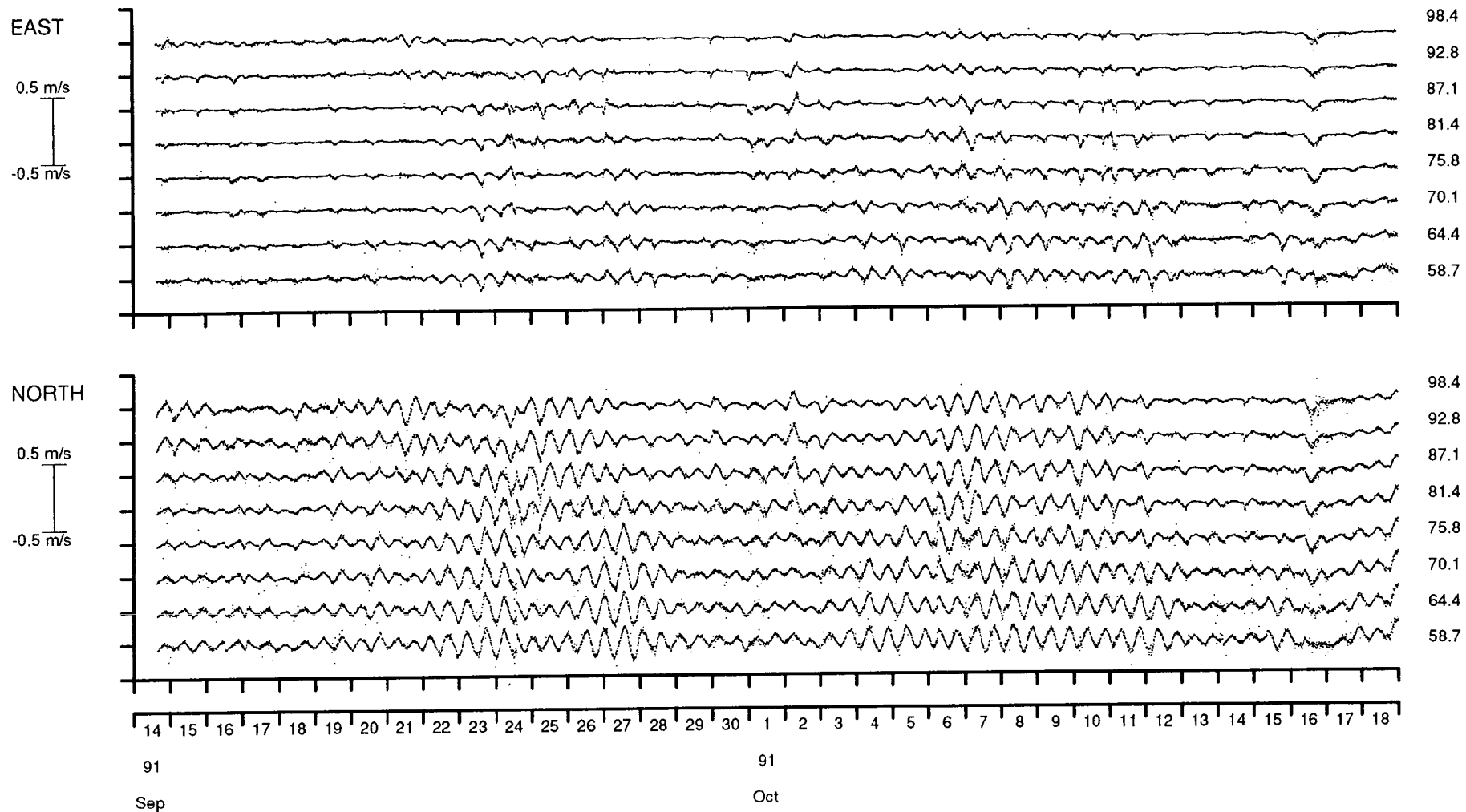
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



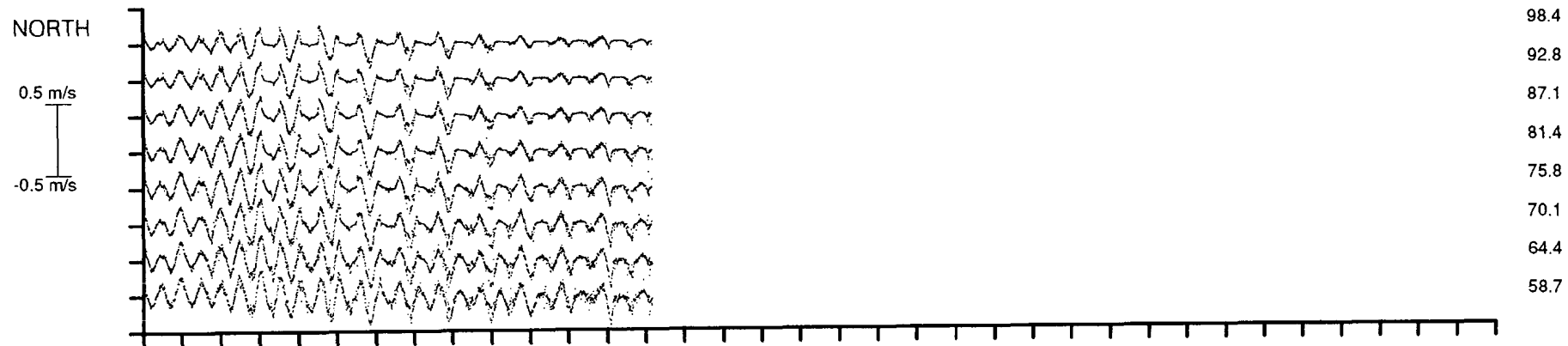
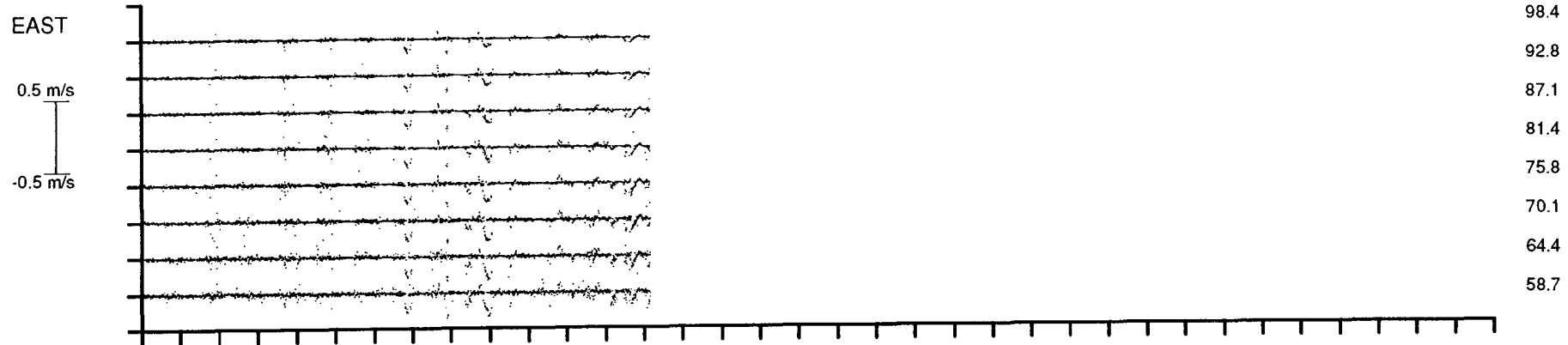
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)



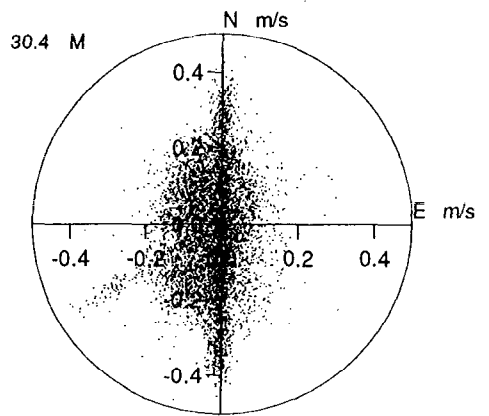
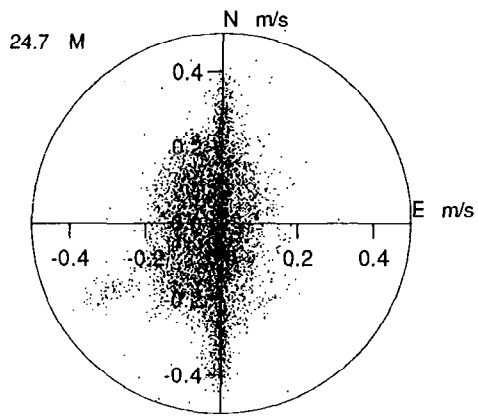
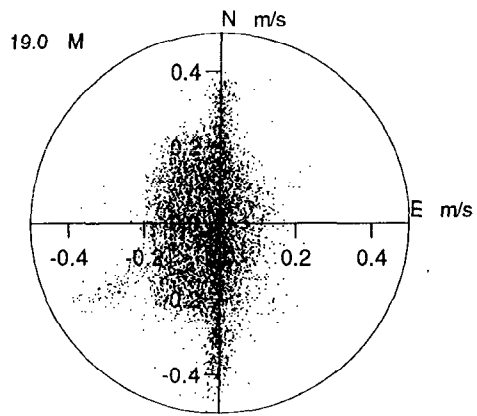
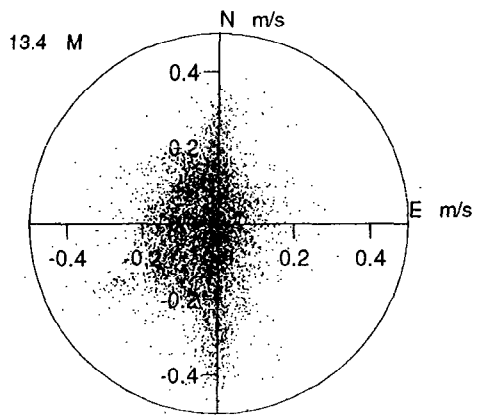
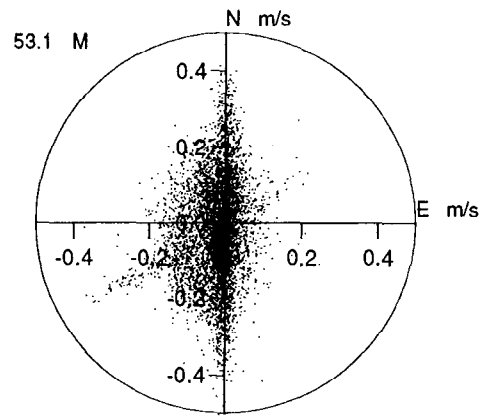
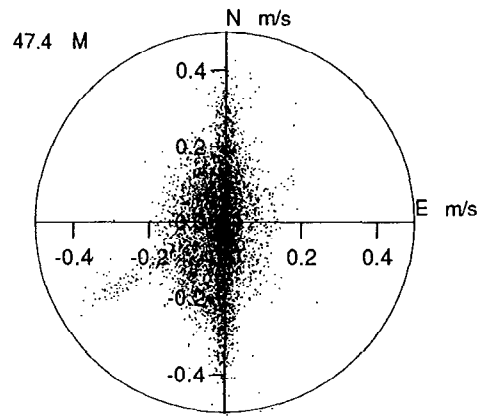
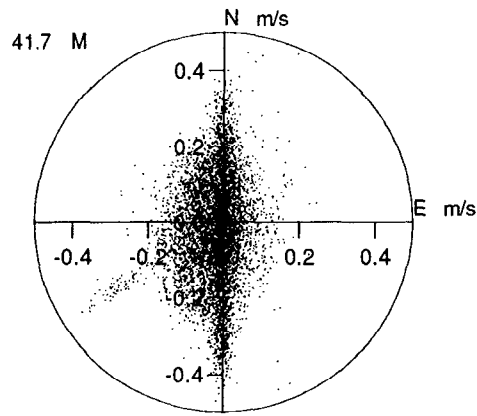
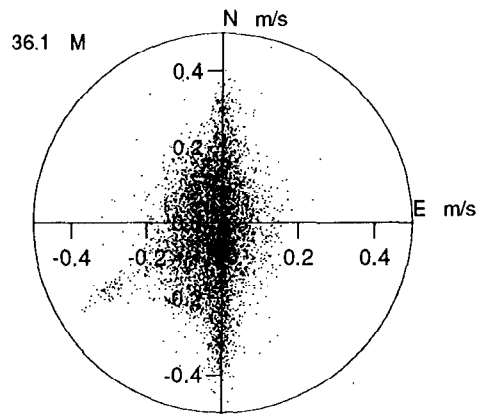
19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
91 91
Oct Nov

SCATTER PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

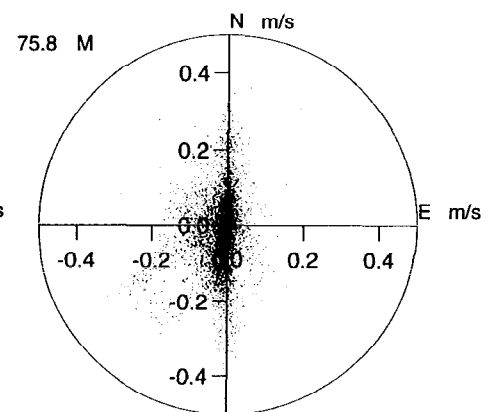
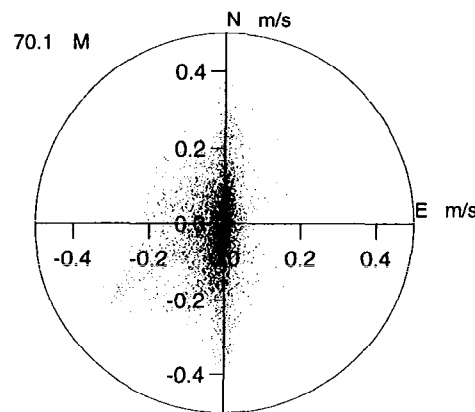
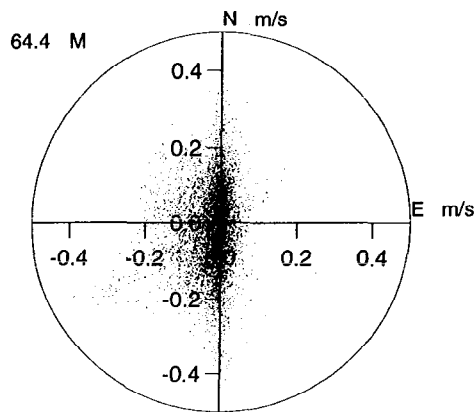
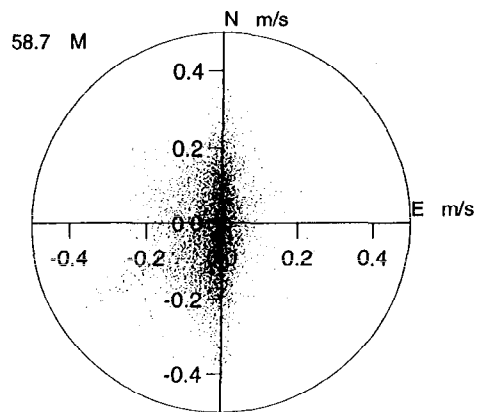
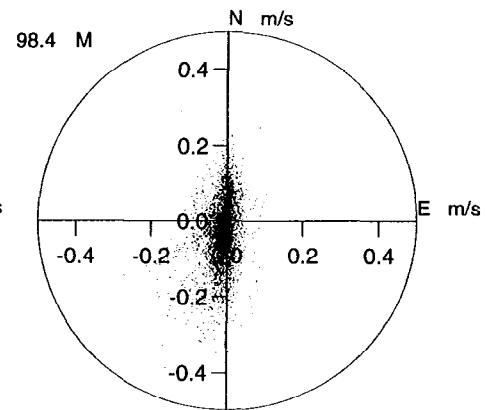
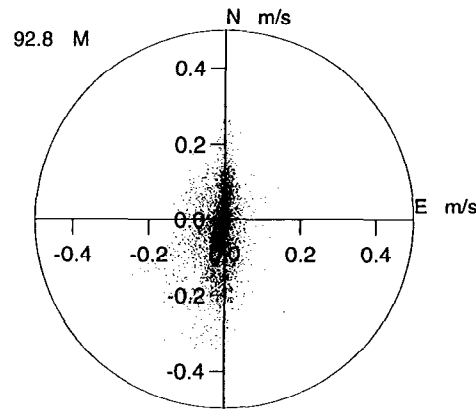
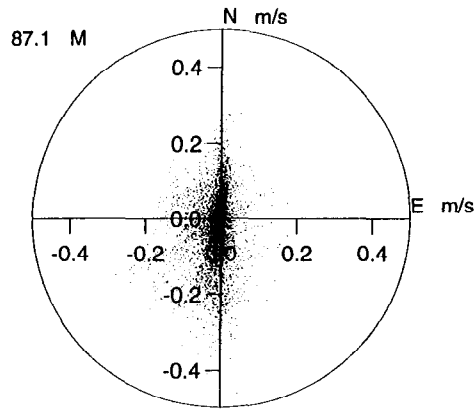
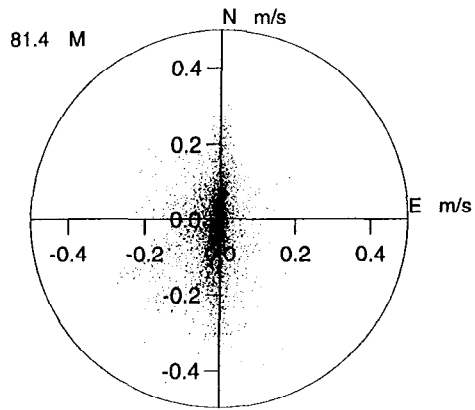


SCATTER PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht



STICK TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

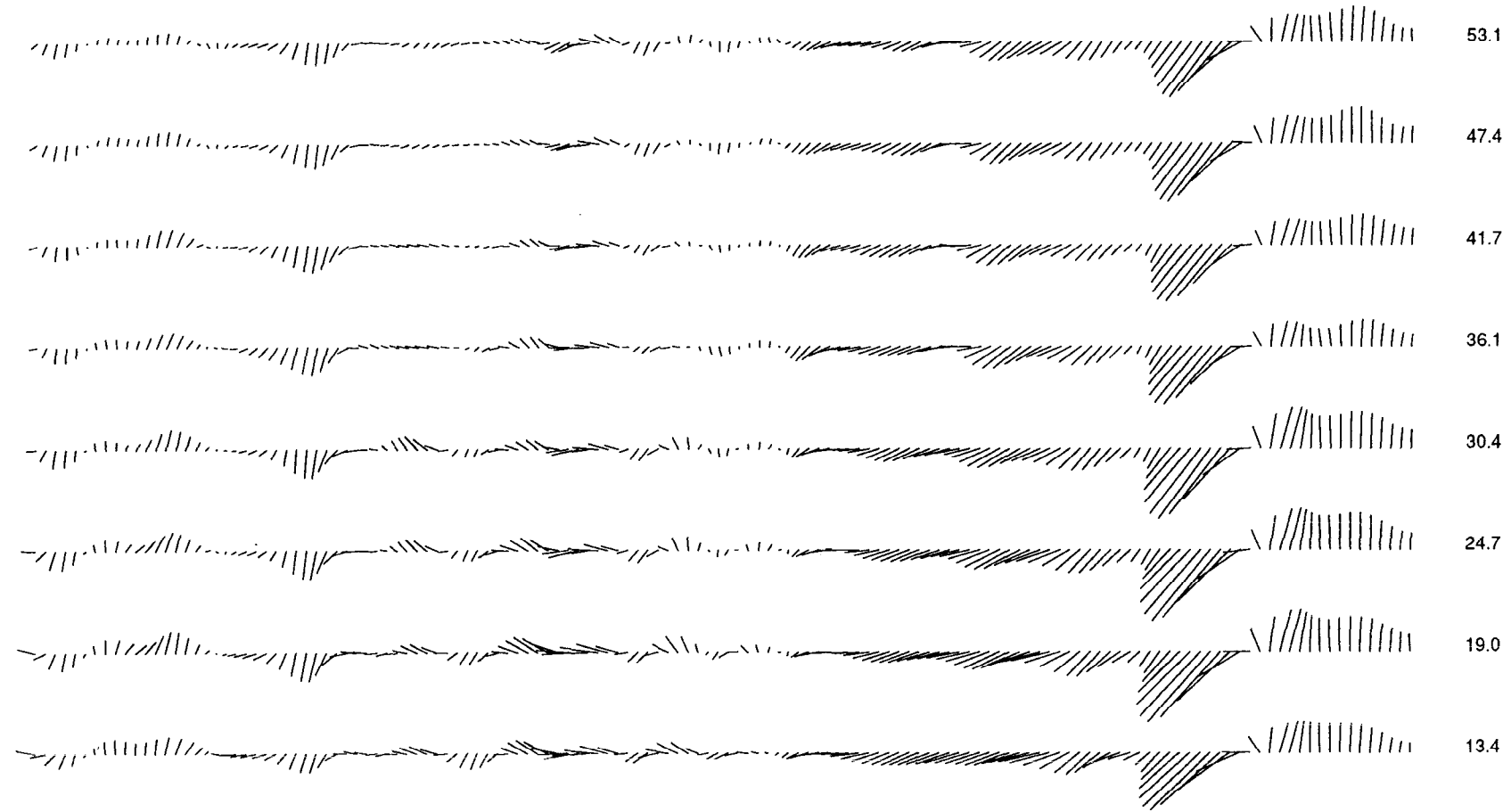
Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s

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17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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STICK TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

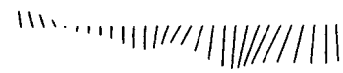
Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

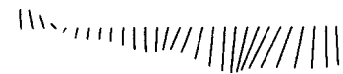
Filtered series

Scale 0.1 m/s

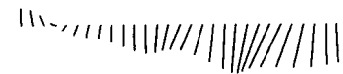
Bin Ht (m)



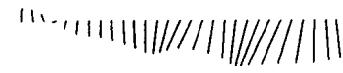
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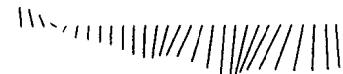
47.4



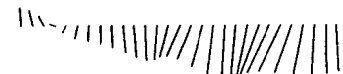
41.7



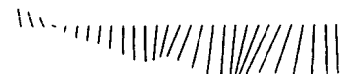
36.1



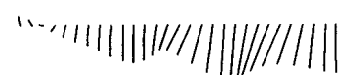
30.4



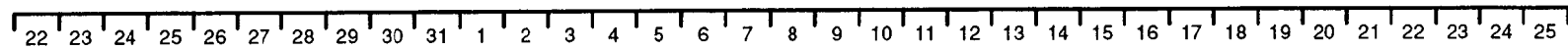
24.7



19.0



13.4



91

91

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Nov

STICK TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

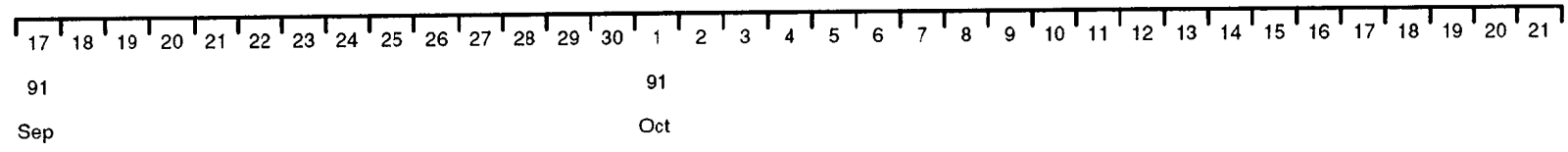
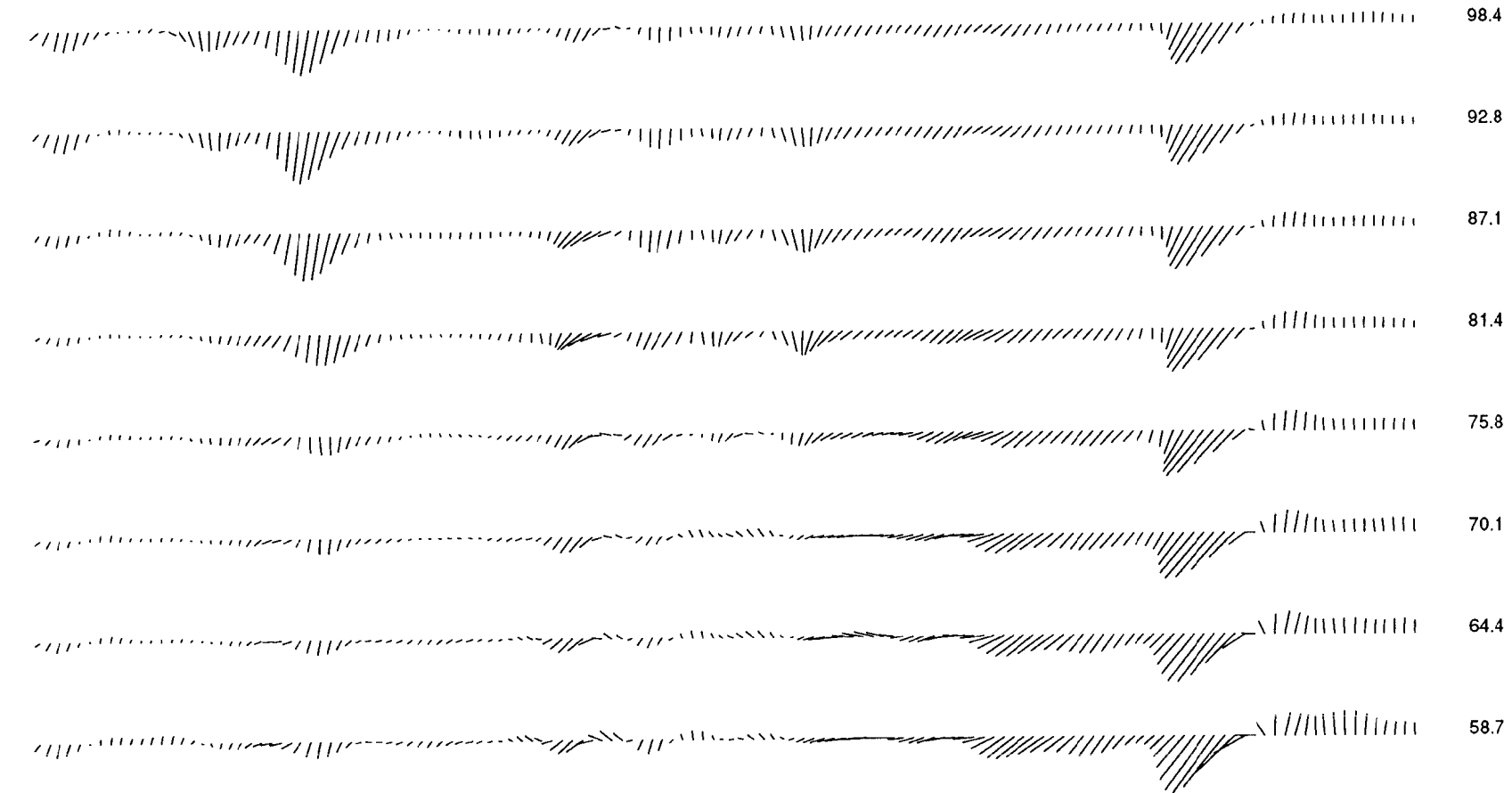
Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s



STICK TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht

Filtered series

Scale 0.1 m/s

Bin Ht (m)



22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
91 91
Oct Nov

Statistics for dp0009.00513

Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.043	-121.8	0.0174	1.4	0.0054	91.4
2	19.0	0.041	-123.4	0.0231	1.0	0.0052	91.0
3	24.7	0.038	-128.4	0.0235	2.2	0.0049	92.2
4	30.4	0.035	-130.5	0.0231	2.6	0.0045	92.6
5	36.1	0.033	-133.0	0.0185	2.6	0.0039	92.6
6	41.7	0.031	-135.3	0.0190	3.0	0.0034	93.0
7	47.4	0.031	-135.7	0.0184	3.3	0.0030	93.3
8	53.1	0.029	-133.1	0.0167	3.6	0.0028	93.6
9	58.7	0.026	-130.0	0.0121	3.9	0.0023	93.9
10	64.4	0.024	-129.7	0.0103	3.4	0.0021	93.4
11	70.1	0.023	-131.3	0.0090	4.5	0.0017	94.5
12	75.8	0.022	-137.7	0.0078	4.9	0.0014	94.9
13	81.4	0.023	-147.9	0.0070	4.8	0.0012	94.8
14	87.1	0.023	-154.1	0.0066	4.4	0.0010	94.4
15	92.8	0.023	-156.8	0.0059	5.3	0.0007	95.3
16	98.4	0.021	-157.1	0.0049	6.3	0.0005	96.3

Statistics for dp0009.00513

Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	13.4	0.040	-114.5	0.0025	27.8	0.0009	117.8
2	19.0	0.038	-115.4	0.0033	25.0	0.0010	115.0
3	24.7	0.034	-120.3	0.0033	24.7	0.0008	114.7
4	30.4	0.031	-121.7	0.0030	23.1	0.0006	113.1
5	36.1	0.029	-124.7	0.0021	24.3	0.0005	114.3
6	41.7	0.027	-126.7	0.0021	23.0	0.0004	113.0
7	47.4	0.026	-126.5	0.0020	21.6	0.0004	111.6
8	53.1	0.026	-124.4	0.0018	23.0	0.0004	113.0
9	58.7	0.025	-123.9	0.0015	27.9	0.0003	117.9
10	64.4	0.024	-124.3	0.0012	28.9	0.0003	118.9
11	70.1	0.023	-127.0	0.0011	30.3	0.0002	120.3
12	75.8	0.023	-135.5	0.0009	29.5	0.0002	119.5
13	81.4	0.024	-147.3	0.0007	27.2	0.0002	117.2
14	87.1	0.024	-154.0	0.0008	19.3	0.0001	109.3
15	92.8	0.024	-157.6	0.0008	15.6	0.0001	105.6
16	98.4	0.022	-158.1	0.0007	17.4	0.0001	107.4

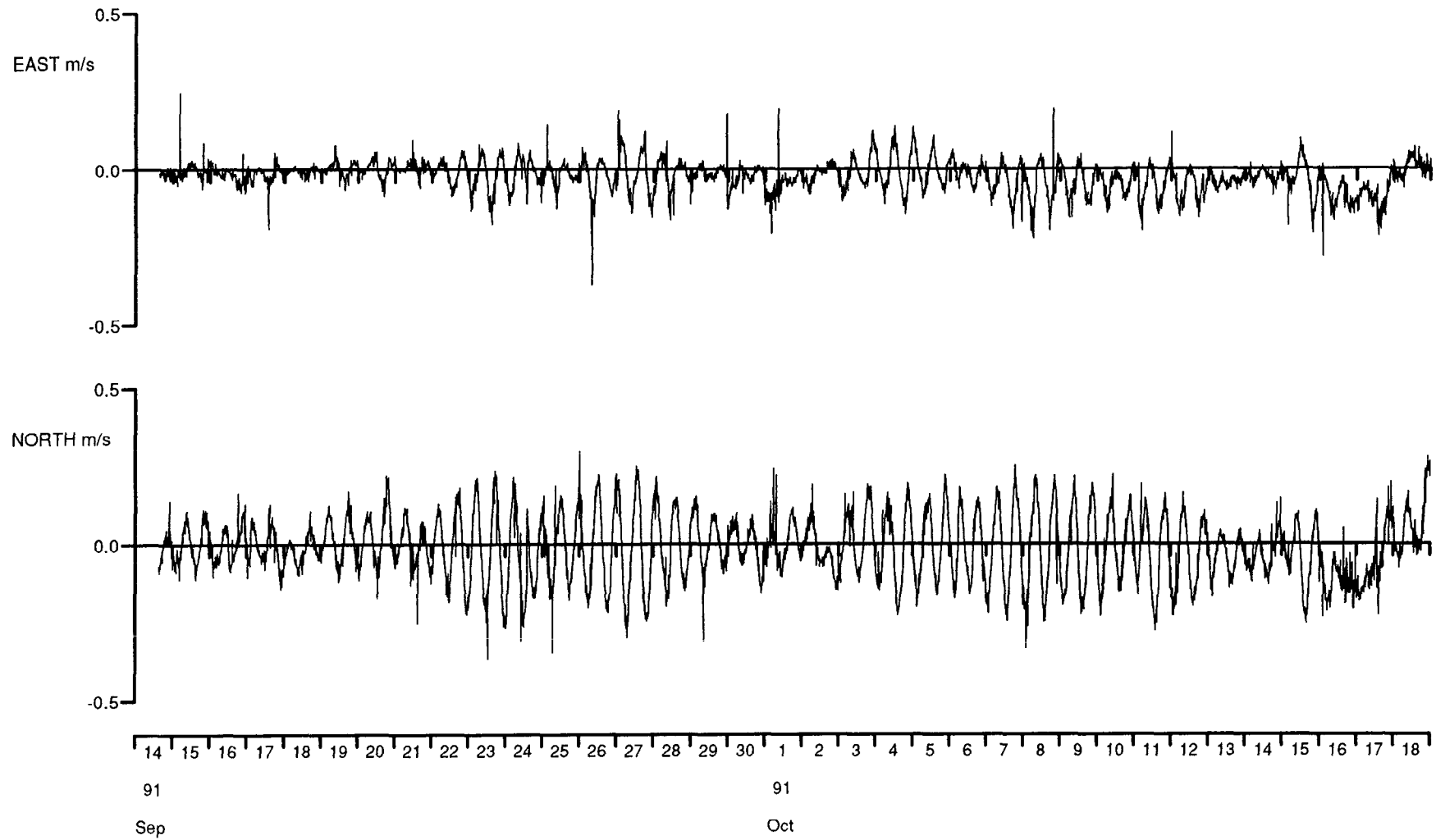
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht 53.1 Bin Ht (m)

Bin closest to depth average



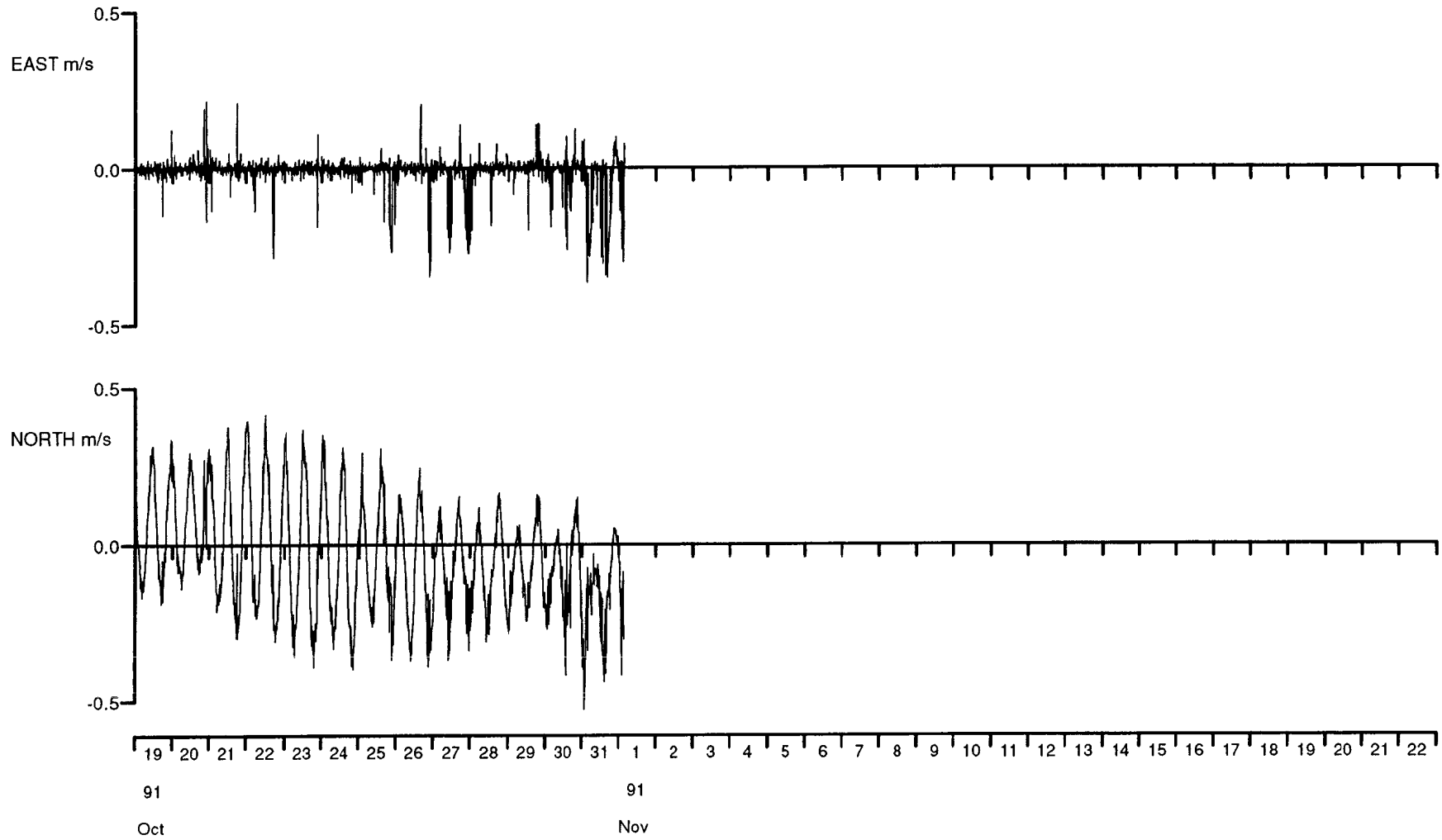
VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht 53.1 Bin Ht (m)

Bin closest to depth average



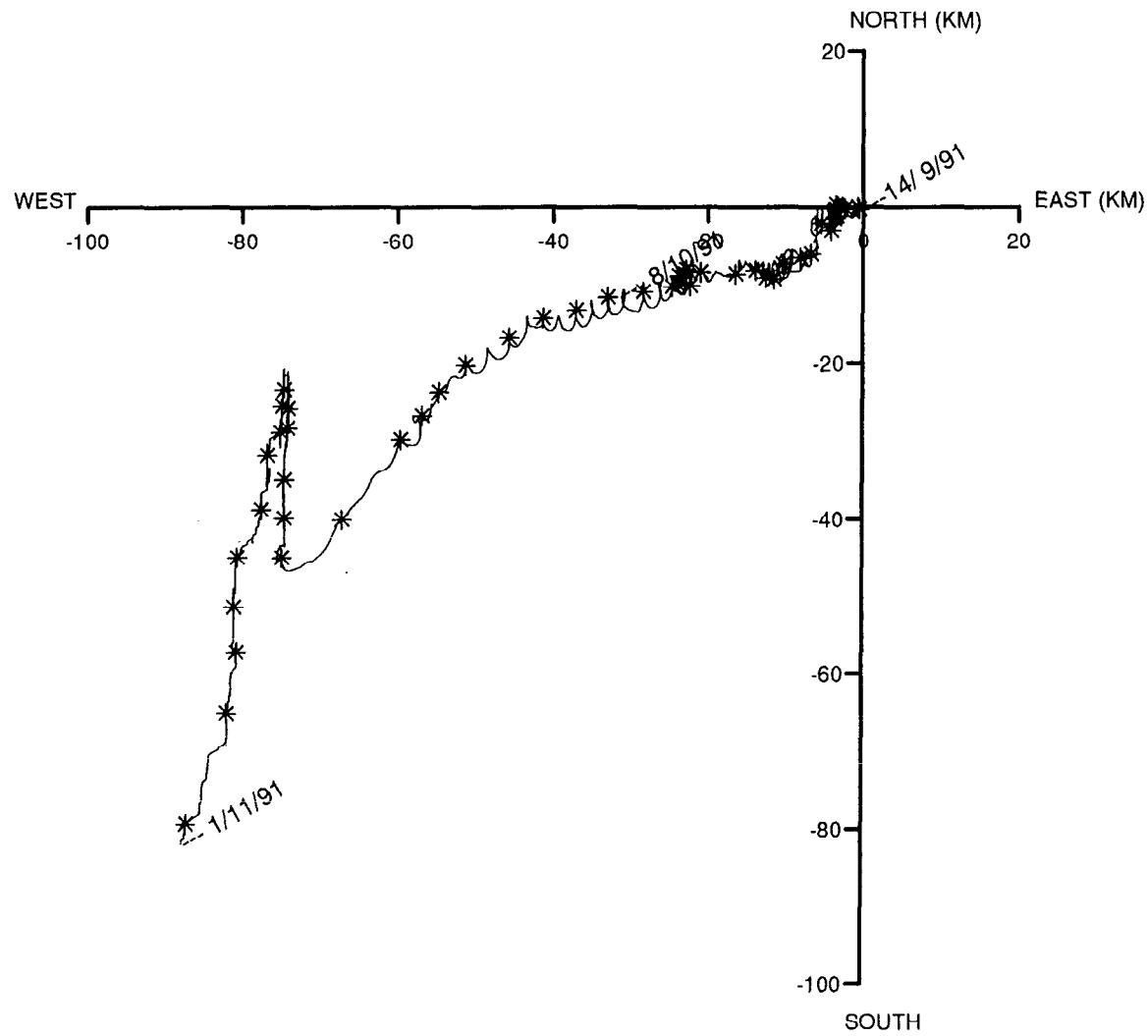
VECTOR PLOT

Meter no. 0009 Rig no. 00513 Depth of water(m) 130.0

Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00

Position 59 39.98N 00 32.48E 13.38 Base Ht 5.67 Gap Ht 53.1 Bin Ht (m)

Bin closest to depth average



Statistics for dp0009.00513s7

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0214	0.30481913E-02	0.55210426E-01
Northings	-0.0219	0.18351004E-01	0.13546588E+00
Speed	0.1250	0.67153503E-02	0.81947237E-01
Vector mean speed	0.0306		
Vector Mean Direction	-135.7		

Maximum ten values

Eastings					Northings				
0.242	0.190	0.185	0.180	0.179	0.425	0.408	0.401	0.398	0.395
0.179	0.178	0.172	0.165	0.164	0.392	0.388	0.387	0.383	0.381

Minimum ten values

Eastings					Northings				
-0.329	-0.329	-0.336	-0.340	-0.344	-0.415	-0.422	-0.422	-0.451	-0.451
-0.348	-0.349	-0.366	-0.372	-0.378	-0.457	-0.478	-0.490	-0.497	-0.506

Maximum speeds

0.506	0.506	0.506	0.479	0.460	0.457	0.451	0.451	0.426	0.426
0.423	0.422	0.415	0.412	0.412	0.412	0.411	0.411	0.411	0.409
0.409	0.409	0.408	0.406	0.406	0.401	0.401	0.400	0.399	0.399
0.398	0.398	0.397	0.397	0.397	0.397	0.396	0.394	0.393	0.392
0.391	0.388	0.388	0.387	0.387	0.386	0.383	0.383	0.383	0.381
0.379	0.379	0.378	0.377	0.376	0.376	0.375	0.374	0.374	0.373
0.373	0.373	0.371	0.371	0.370	0.369	0.369	0.368	0.367	0.367
0.367	0.367	0.367	0.366	0.366	0.365	0.365	0.364	0.364	0.363
0.362	0.362	0.361	0.361	0.361	0.360	0.360	0.359	0.359	0.359
0.359	0.359	0.359	0.358	0.358	0.358	0.357	0.355	0.355	0.355

Variance ellipse statistics

Maximum variance	0.1840E-01	Direction	3.3
Minimum variance	0.2998E-02	Direction	93.3
Total variance	0.2140E-01	Ratio of variances	0.1629E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	-11.9		
Average direction. maxdir +PI/2 to maxdir -PI/2	190.2		

Statistics for dp0009.00513s7f

Doppler bin number 7

	Mean	Variance	Standard deviation
Eastings	-0.0213	0.60100207E-03	0.24515342E-01
Northings	-0.0157	0.18090751E-02	0.42533226E-01
Speed	0.0452	0.10581950E-02	0.32529909E-01
Vector mean speed	0.0265		
Vector Mean Direction	-126.5		

Maximum ten values

Eastings					Northings				
0.016	0.016	0.009	0.007	0.007	0.089	0.087	0.079	0.078	0.068
0.006	0.006	0.005	0.005	0.005	0.067	0.067	0.063	0.062	0.061

Minimum ten values

Eastings					Northings				
-0.055	-0.056	-0.059	-0.070	-0.078	-0.091	-0.092	-0.093	-0.095	-0.098
-0.089	-0.098	-0.102	-0.108	-0.108	-0.099	-0.117	-0.128	-0.137	-0.143

Maximum speeds

0.179	0.171	0.167	0.147	0.135	0.114	0.101	0.101	0.100	0.100
0.099	0.095	0.095	0.092	0.091	0.090	0.089	0.088	0.087	0.084
0.084	0.080	0.079	0.078	0.072	0.072	0.070	0.070	0.069	0.068
0.067	0.065	0.064	0.063	0.062	0.061	0.061	0.060	0.060	0.059
0.059	0.058	0.058	0.058	0.057	0.057	0.057	0.056	0.056	0.056
0.055	0.054	0.054	0.053	0.052	0.052	0.052	0.052	0.052	0.052
0.052	0.051	0.051	0.051	0.051	0.051	0.051	0.050	0.050	0.050
0.049	0.049	0.049	0.049	0.047	0.047	0.046	0.045	0.045	0.044
0.043	0.042	0.041	0.041	0.038	0.038	0.037	0.037	0.037	0.037
0.036	0.036	0.034	0.033	0.033	0.032	0.032	0.030	0.029	0.029

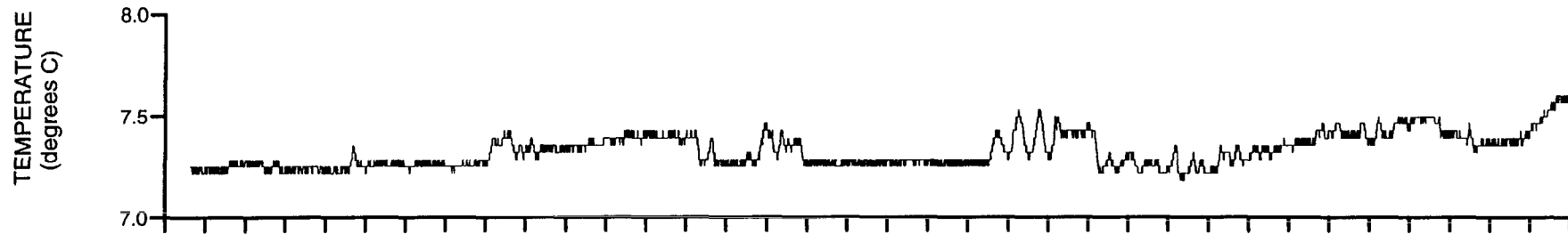
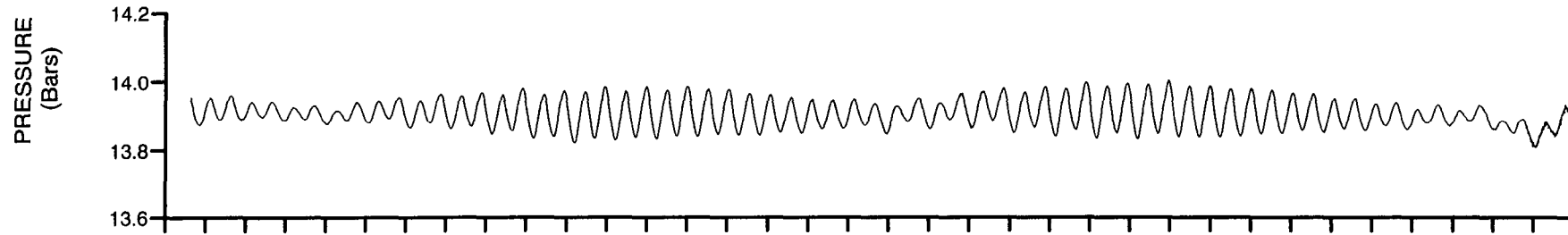
Variance ellipse statistics

Maximum variance	0.2033E-02	Direction	21.6
Minimum variance	0.3766E-03	Direction	111.6
Total variance	0.2410E-02	Ratio of variances	0.1852E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			-26.0
Average direction. maxdir +PI/2 to maxdir -PI/2			202.9

Meter information details for 1038

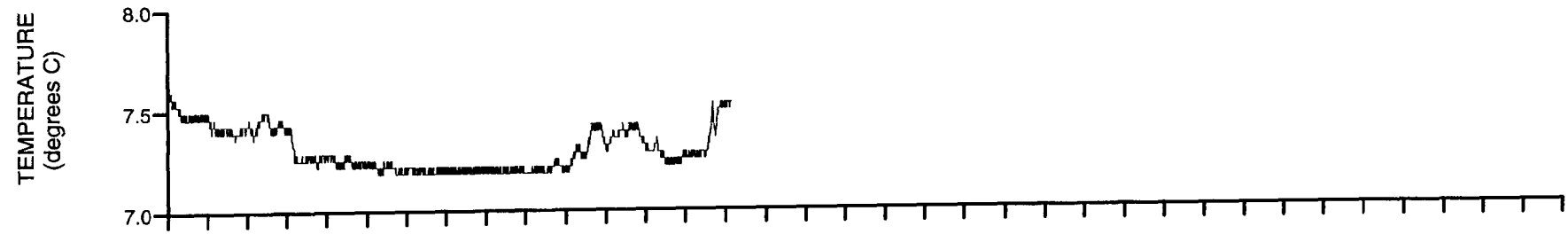
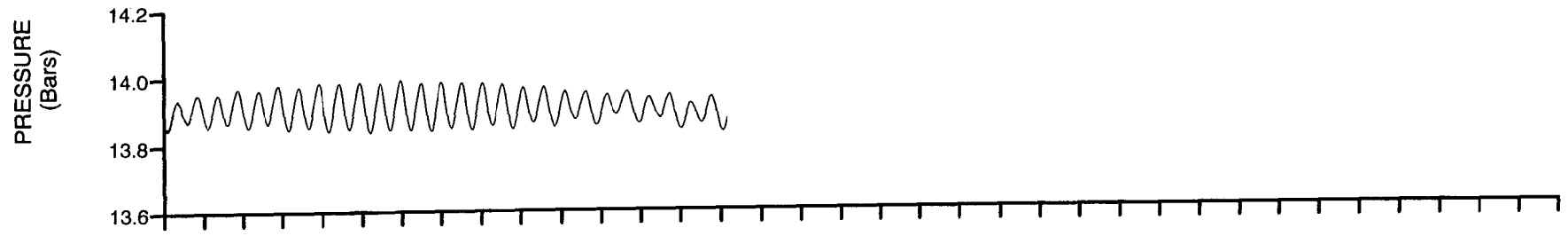
Rig No	:	00513
Meter No	:	1038
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.8 m
Position of meter on rig	:	A
Meter type	:	WR
Meter started	:	14-SEP-91 12:40:00
Meter stopped	:	05-NOV-91 10:21:15
Period switched on	:	51.9 days
Period of good data	:	48.5 days
Total number of scans	:	6990
Timing error	:	75 seconds slow
Comments	:	Good record obtained

Meter no. 1038 Rig no. 00513 Depth of water(m) 130.0
Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00
Position 59 39.98N 00 32.48E Meter Height(m) 0.8



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
91 91
Sep Oct

Meter no. 1038 Rig no. 00513 Depth of water(m) 130.0
Start/End 1991/09/14 AT 15:00:00 1991/11/02 AT 04:00:00
Position 59 39.98N 00 32.48E Meter Height(m) 0.8



19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
91
Oct Nov

Rig information details for 00505

Position Latitude	:	59 39.96N
Position Longitude	:	00 32.95E
Water depth	:	129.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	TRAWLED
Site name identification	:	HB
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 14:28:00
Rig recovered on	:	15-SEP-91 00:00:00
Period of deployment	:	7.4 days
Comments	:	Trawled on 15 Sep 91

Meter information details for 1196

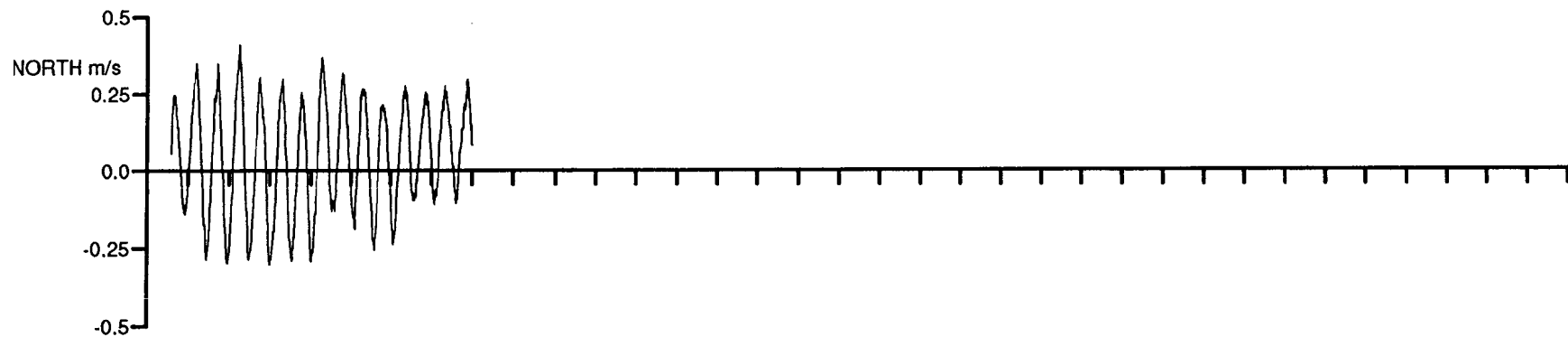
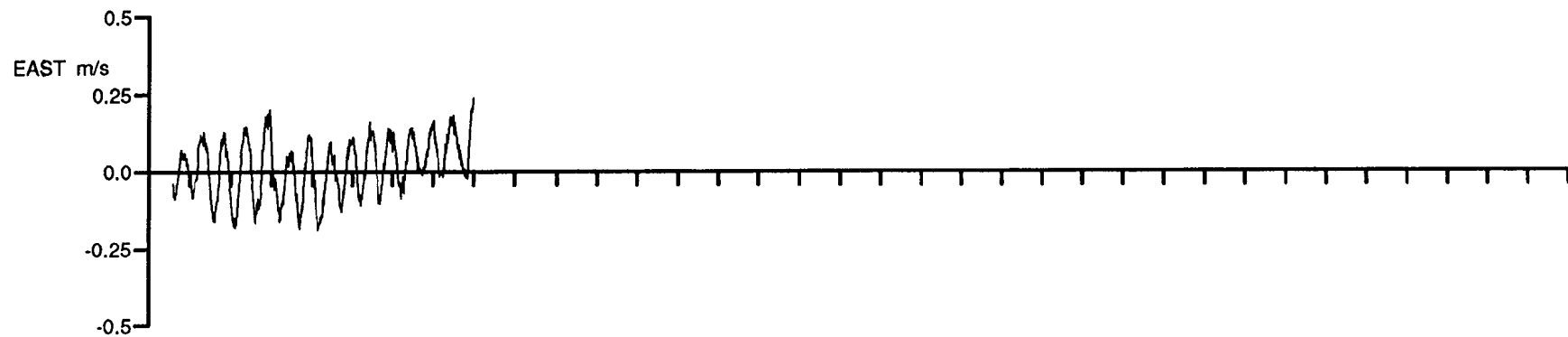
Rig No	:	00505
Meter No	:	1196
Recording interval	:	600.0 seconds
Meter depth	:	5.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	07-SEP-91 13:00:00
Meter stopped	:	23-SEP-91 15:11:00
Period switched on	:	16.1 days
Period of good data	:	7.4 days
Total number of scans	:	1065
Timing error	:	60 seconds slow
Comments	:	Good record obtained until trawled

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1196 Rig no. 00505 Depth of water(m) 129.0

Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00

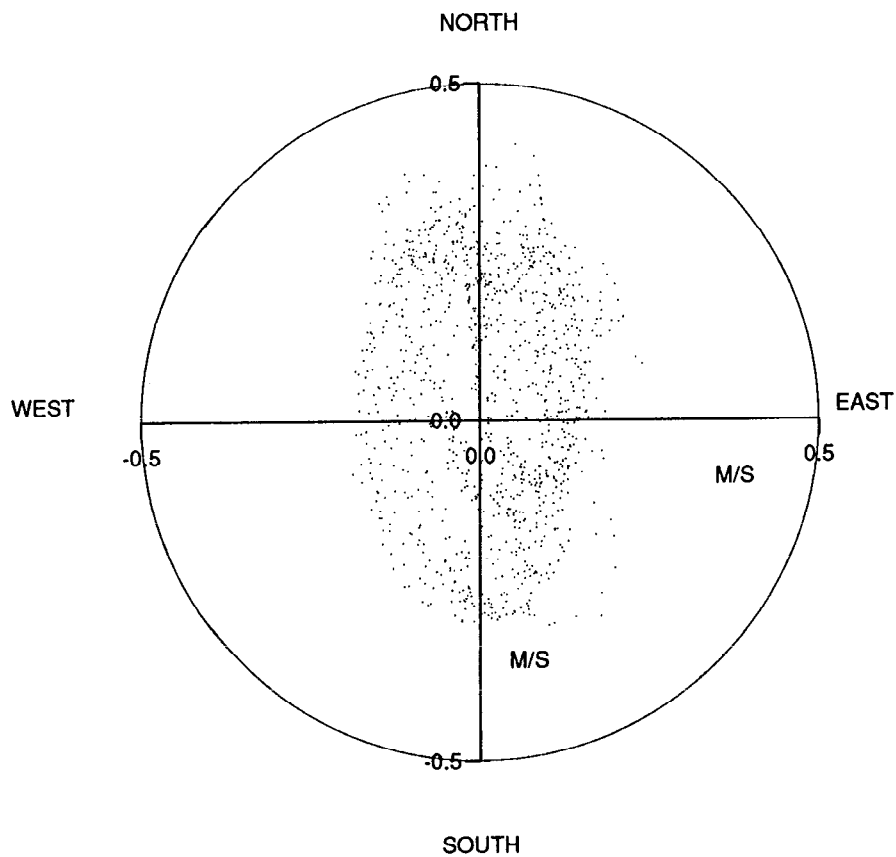
Position 59 39.96N 00 32.95E Meter Depth(m) 5.0



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11
91 91
Sep Oct

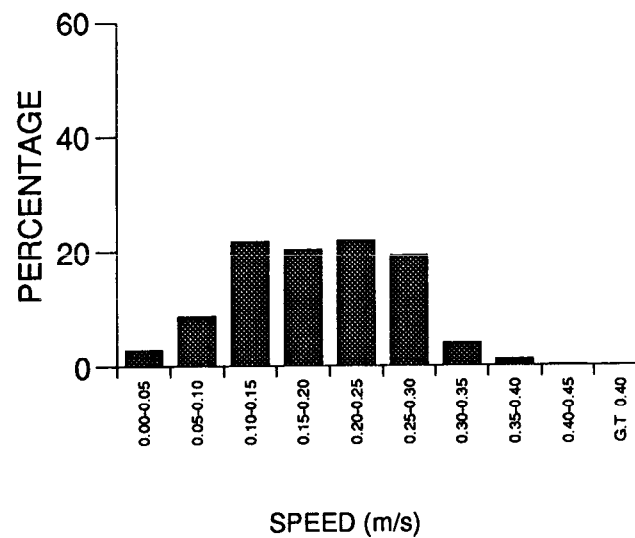
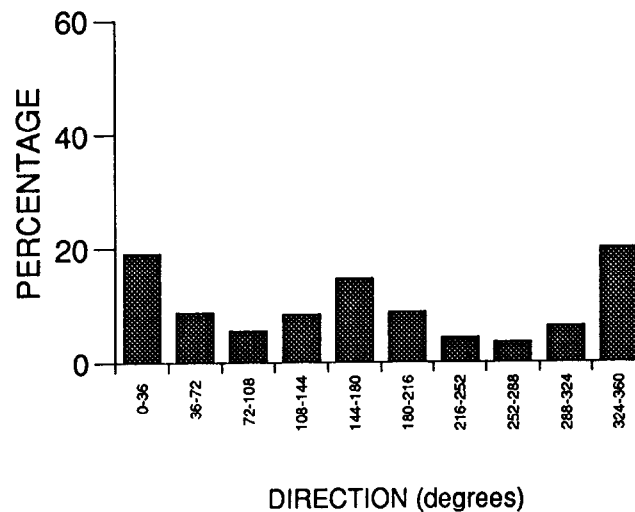
SCATTER PLOT

Meter no. 1196 Rig no. 00505 Depth of water(m) 129.0
 Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00
 Position 59 39.96N 00 32.95E Meter Depth(m) 5.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1196 Rig no. 00505 Depth of water(m) 129.0
 Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00
 Position 59 39.96N 00 32.95E Meter Depth(m) 5.0

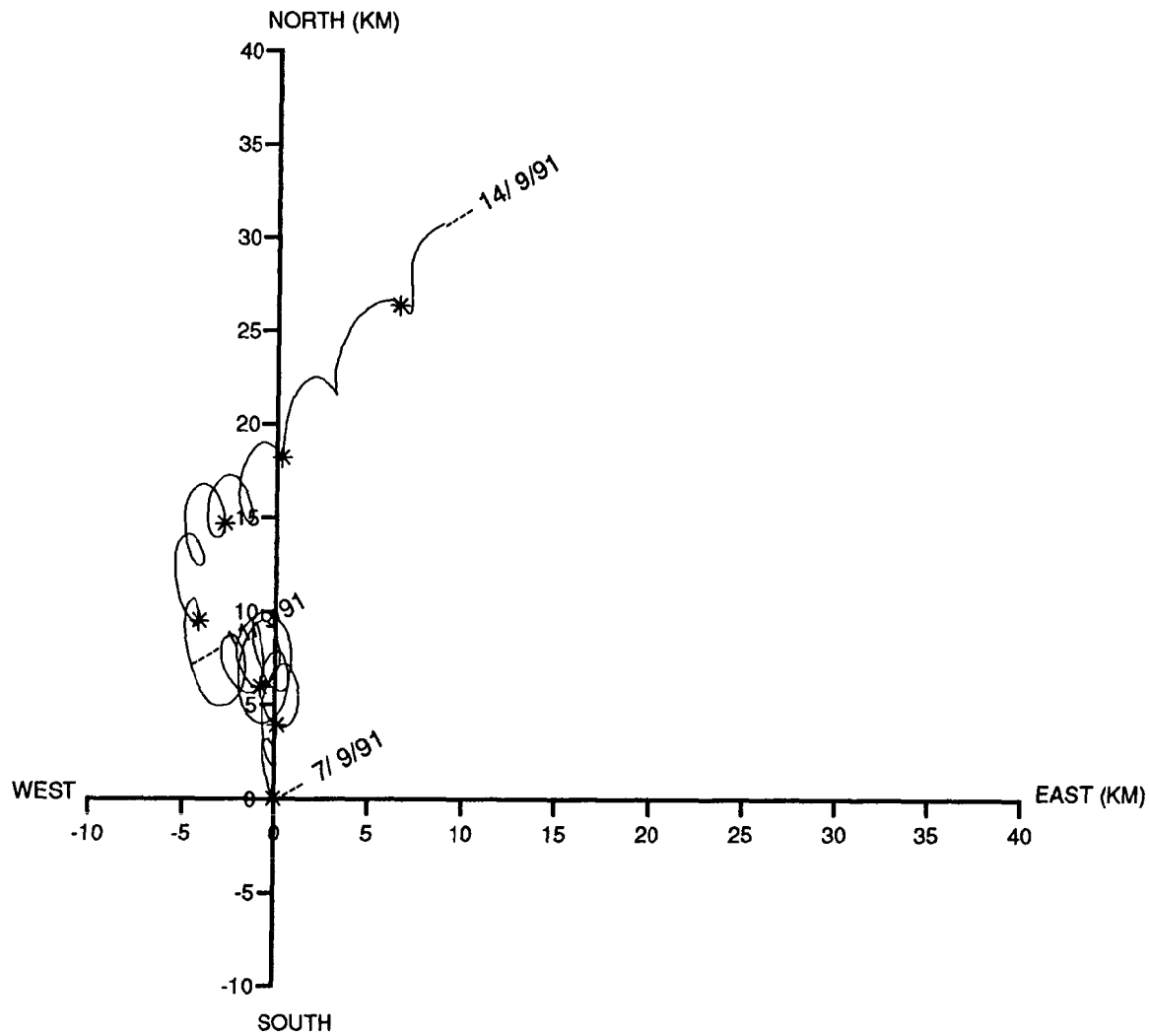


VECTOR PLOT

Meter no. 1196 Rig no. 00505 Depth of water(m) 129.0

Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00

Position 59 39.96N 00 32.95E Meter Depth(m) 5.0



Statistics for s41196t.00505s

	Mean	Variance	Standard deviation
Eastings	0.0137	0.85030533E-02	0.92211999E-01
Northings	0.0480	0.30904368E-01	0.17579637E+00
Speed	0.1902	0.57114479E-02	0.75574122E-01
Vector mean speed	0.0500		
Vector Mean Direction	15.9		

Maximum ten values

Eastings					Northings				
0.239	0.230	0.212	0.205	0.204	0.409	0.392	0.379	0.376	0.367
0.200	0.200	0.197	0.195	0.193	0.366	0.365	0.364	0.356	0.356

Minimum ten values

Eastings					Northings				
-0.175	-0.176	-0.177	-0.177	-0.180	-0.289	-0.290	-0.291	-0.292	-0.293
-0.181	-0.181	-0.185	-0.186	-0.189	-0.294	-0.296	-0.296	-0.299	-0.302

Maximum speeds

0.412	0.400	0.384	0.379	0.377	0.375	0.374	0.371	0.365	0.361
0.360	0.359	0.357	0.356	0.356	0.350	0.348	0.346	0.345	0.345
0.345	0.344	0.343	0.342	0.341	0.339	0.333	0.330	0.330	0.328
0.328	0.325	0.323	0.323	0.322	0.319	0.319	0.318	0.318	0.318
0.316	0.314	0.313	0.313	0.312	0.312	0.311	0.310	0.308	0.308
0.307	0.306	0.304	0.304	0.304	0.303	0.303	0.301	0.300	0.299
0.299	0.299	0.298	0.297	0.297	0.297	0.297	0.297	0.296	0.296
0.296	0.296	0.296	0.296	0.295	0.295	0.295	0.295	0.294	0.294
0.294	0.294	0.293	0.293	0.292	0.292	0.292	0.291	0.291	0.290
0.290	0.290	0.290	0.290	0.289	0.289	0.289	0.289	0.288	0.288

Variance ellipse statistics

Maximum variance	0.3099E-01	Direction	-3.6
Minimum variance	0.8416E-02	Direction	86.4
Total variance	0.3941E-01	Ratio of variances	0.2716E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			7.3
Average direction. maxdir +PI/2 to maxdir -PI/2			172.0

Statistics for s41196t.00505sf

	Mean	Variance	Standard deviation
Eastings	-0.0303	0.28955945E-03	0.17016446E-01
Northings	0.0426	0.19527111E-02	0.44189490E-01
Speed	0.0650	0.45095998E-03	0.21235818E-01
Vector mean speed	0.0523		
Vector Mean Direction	-35.4		

Maximum ten values

Eastings					Northings				
-0.001	-0.020	-0.034	-0.036	-0.045	0.086	0.086	0.066	0.034	0.002
-0.046	-0.001	0.000	0.000	0.000	-0.018	0.000	0.001	0.001	0.001

Minimum ten values

Eastings					Northings				
-0.001	-0.020	-0.034	-0.036	-0.045	0.086	0.086	0.066	0.034	0.002
-0.046	0.002	0.002	0.002	0.002	-0.018	0.002	0.002	0.003	0.003

Maximum speeds

0.088 0.086 0.075 0.057 0.045 0.039

Variance ellipse statistics

Maximum variance	0.2097E-02	Direction	15.8
Minimum variance	0.1452E-03	Direction	105.8
Total variance	0.2242E-02	Ratio of variances	0.6924E-01
Average direction. maxdir -PI/2 to maxdir +PI/2			-39.8
Average direction. maxdir +PI/2 to maxdir -PI/2			241.4

Meter information details for 1113

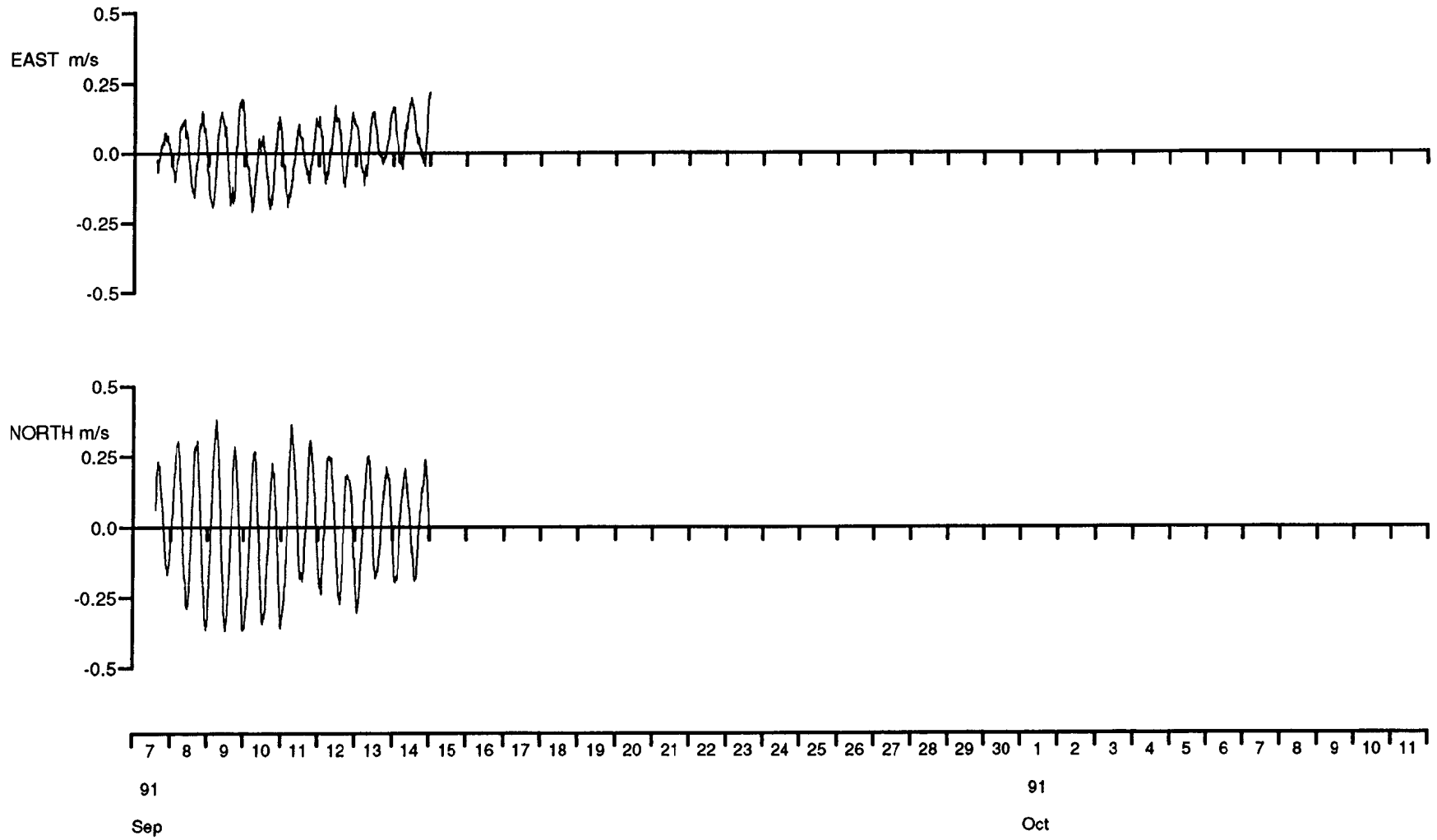
Rig No	:	00505
Meter No	:	1113
Recording interval	:	600.0 seconds
Meter depth	:	15.0 m
Position of meter on rig	:	B
Meter type	:	S4
Meter started	:	07-SEP-91 12:50:00
Meter stopped	:	23-SEP-91 14:40:00
Period switched on	:	16.1 days
Period of good data	:	7.4 days
Total number of scans	:	1065
Timing error	:	None
Comments	:	Good record obtained until trawled

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1113 Rig no. 00505 Depth of water(m) 129.0

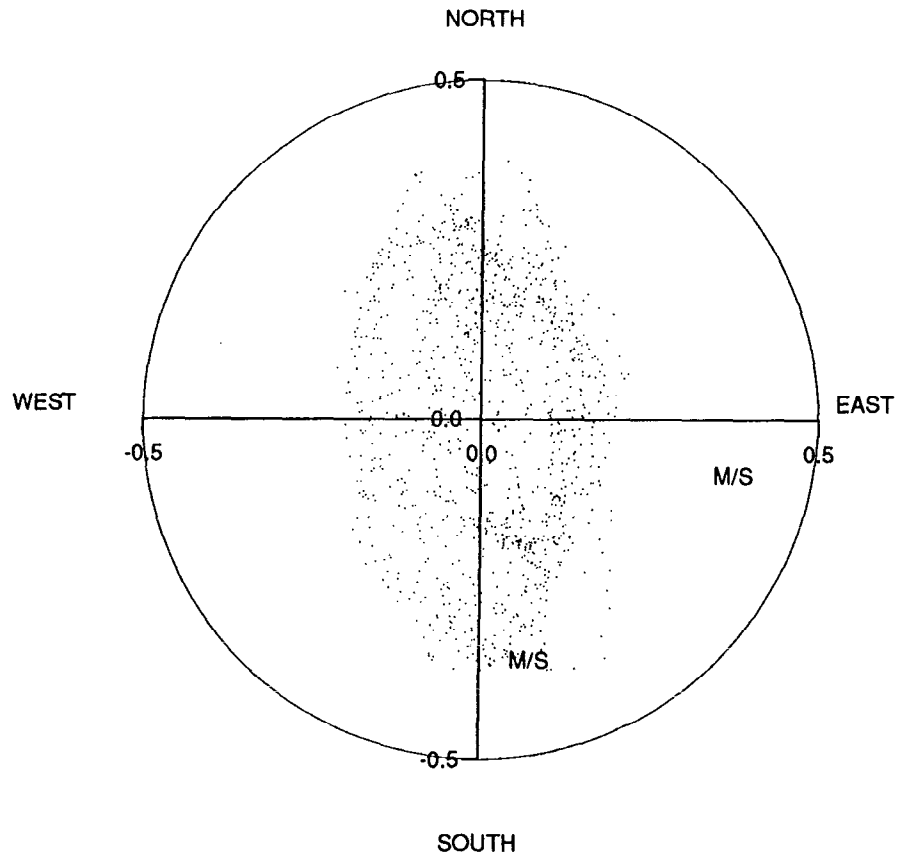
Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00

Position 59 39.96N 00 32.95E Meter Depth(m) 15.0



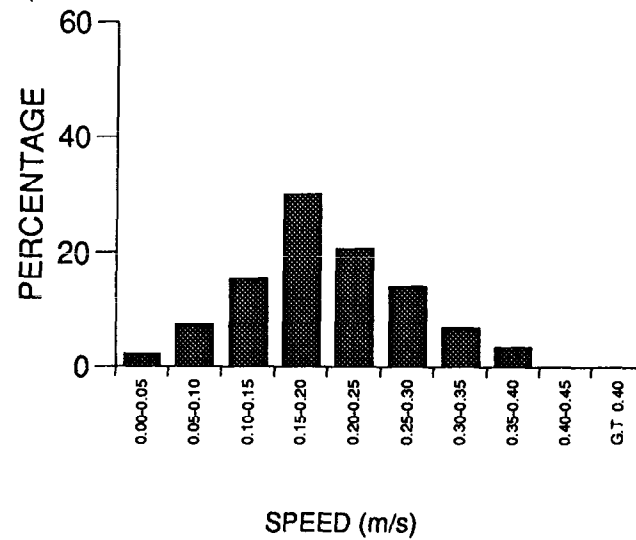
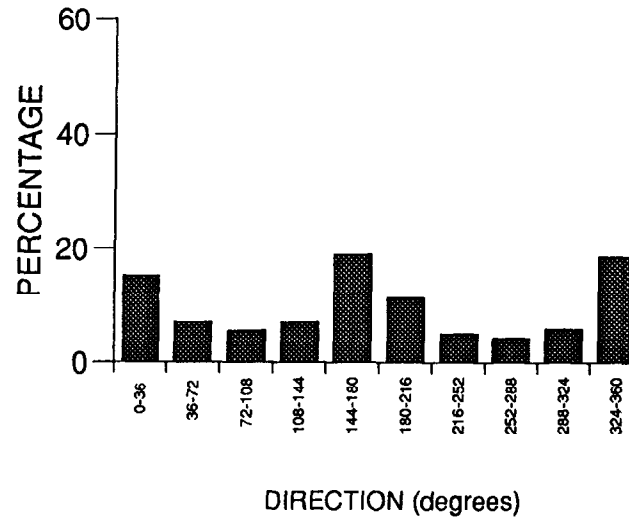
SCATTER PLOT

Meter no. 1113 Rig no. 00505 Depth of water(m) 129.0
 Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00
 Position 59 39.96N 00 32.95E Meter Depth(m) 15.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1113 Rig no. 00505 Depth of water(m) 129.0
 Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00
 Position 59 39.96N 00 32.95E Meter Depth(m) 15.0

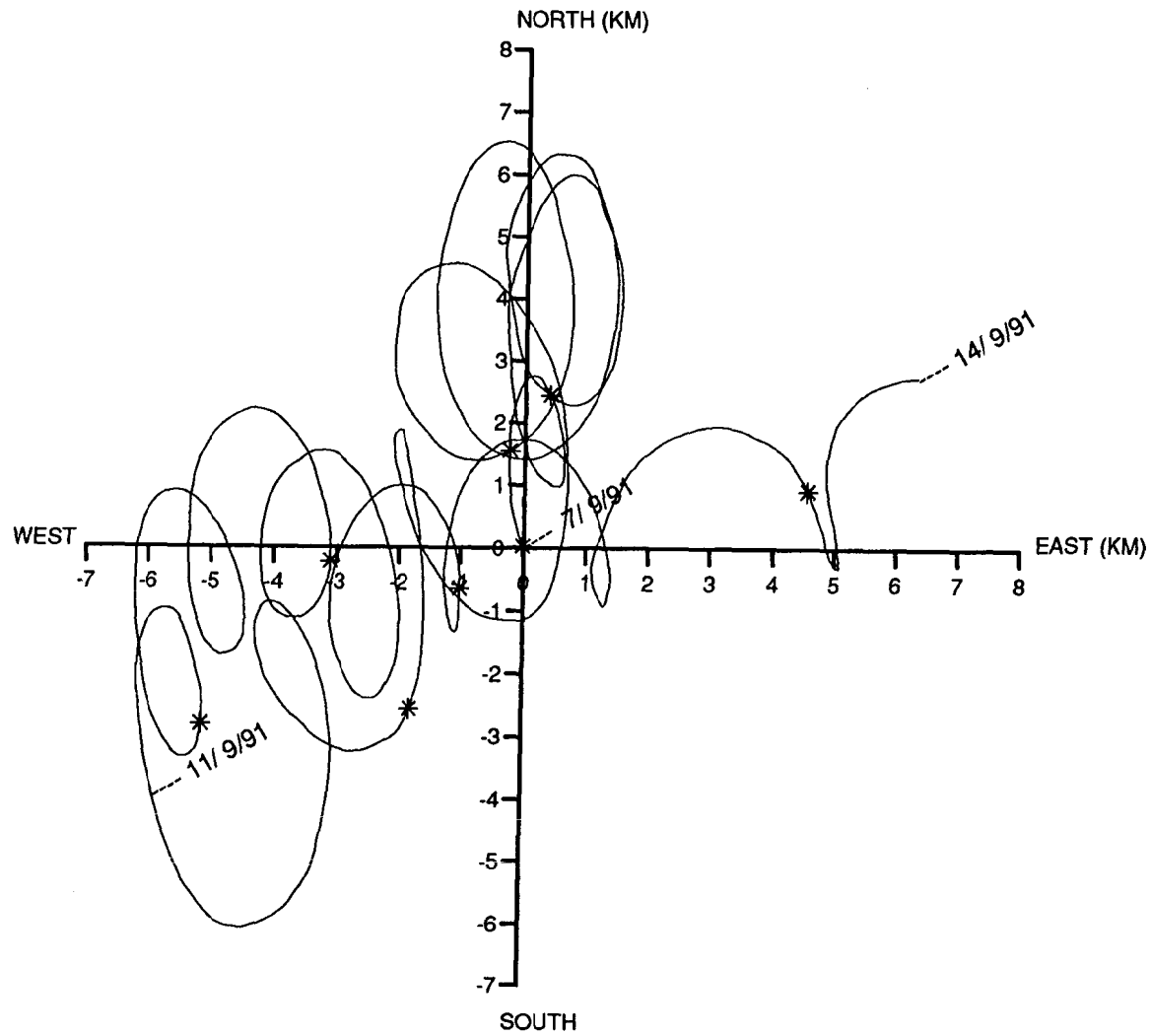


VECTOR PLOT

Meter no. 1113 Rig no. 00505 Depth of water(m) 129.0

Start/End 1991/09/07 AT 14:28:00 1991/09/15 AT 00:00:00

Position 59 39.96N 00 32.95E Meter Depth(m) 15.0



Statistics for s41113b.00505s

	Mean	Variance	Standard deviation
Eastings	0.0099	0.92163952E-02	0.96002065E-01
Northings	0.0043	0.35666056E-01	0.18885458E+00
Speed	0.1982	0.56987894E-02	0.75490326E-01
Vector mean speed	0.0108		
Vector Mean Direction	66.6		

Maximum ten values

Eastings					Northings				
0.217	0.217	0.211	0.206	0.202	0.381	0.363	0.363	0.363	0.360
0.198	0.197	0.196	0.194	0.193	0.358	0.356	0.355	0.352	0.349

Minimum ten values

Eastings					Northings				
-0.188	-0.193	-0.193	-0.195	-0.196	-0.354	-0.358	-0.359	-0.360	-0.360
-0.198	-0.199	-0.200	-0.203	-0.212	-0.364	-0.365	-0.366	-0.366	-0.368

Maximum speeds

0.396	0.390	0.383	0.380	0.379	0.374	0.374	0.372	0.368	0.367
0.367	0.365	0.363	0.362	0.361	0.361	0.360	0.359	0.359	0.359
0.359	0.356	0.356	0.355	0.355	0.354	0.354	0.354	0.354	0.353
0.352	0.352	0.350	0.350	0.350	0.350	0.350	0.349	0.349	0.347
0.346	0.345	0.342	0.342	0.342	0.342	0.340	0.338	0.337	0.337
0.336	0.335	0.333	0.333	0.332	0.332	0.331	0.331	0.330	0.330
0.330	0.328	0.326	0.325	0.325	0.324	0.324	0.324	0.323	0.322
0.321	0.319	0.319	0.318	0.318	0.317	0.317	0.314	0.314	0.313
0.313	0.312	0.312	0.312	0.312	0.311	0.311	0.311	0.311	0.310
0.310	0.310	0.308	0.308	0.308	0.308	0.307	0.307	0.305	0.304

Variance ellipse statistics

Maximum variance	0.3587E-01	Direction	-4.9
Minimum variance	0.9017E-02	Direction	85.1
Total variance	0.4488E-01	Ratio of variances	0.2514E+00
Average direction. maxdir -PI/2 to maxdir +PI/2			5.5
Average direction. maxdir +PI/2 to maxdir -PI/2			176.3

Statistics for s41113b.00505sf

	Mean	Variance	Standard deviation
Eastings	-0.0280	0.63696736E-03	0.25238214E-01
Northings	0.0012	0.24013799E-02	0.49003877E-01
Speed	0.0558	0.24596308E-03	0.15683210E-01
Vector mean speed	0.0281		
Vector Mean Direction	-87.6		

Maximum ten values

Eastings					Northings				
0.011	-0.008	-0.028	-0.045	-0.047	0.053	0.048	0.025	-0.010	-0.044
-0.052	-0.002	-0.001	-0.001	-0.001	-0.065	0.000	0.000	0.000	0.000

Minimum ten values

Eastings					Northings				
0.011	-0.008	-0.028	-0.045	-0.047	0.053	0.048	0.025	-0.010	-0.044
-0.052	0.001	0.001	0.001	0.001	-0.065	0.002	0.002	0.002	0.002

Maximum speeds

0.080 0.068 0.054 0.049 0.046 0.037

Variance ellipse statistics

Maximum variance	0.2934E-02	Direction	25.7
Minimum variance	0.1043E-03	Direction	115.7
Total variance	0.3038E-02	Ratio of variances	0.3555E-01
Average direction. maxdir -PI/2 to maxdir +PI/2			-41.0
Average direction. maxdir +PI/2 to maxdir -PI/2			208.6

Rig information details for 00506

Position Latitude	:	59 40.01N
Position Longitude	:	00 32.66E
Water depth	:	129.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	TRAWLED
Site name identification	:	HC
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 15:47:00
Rig recovered on	:	15-SEP-91 00:00:00
Period of deployment	:	7.3 days
Comments	:	Trawled on 15 Sep 91

Meter information details for 1119

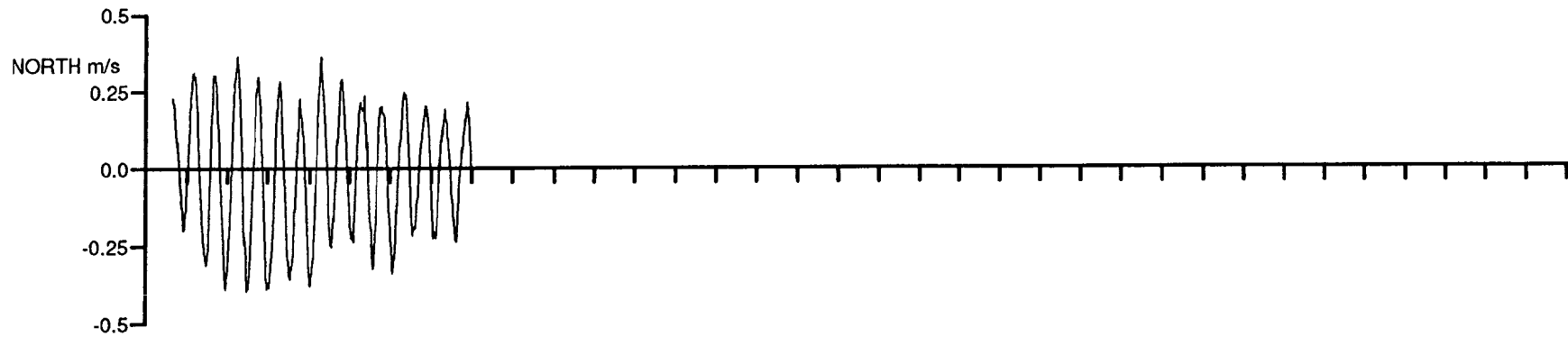
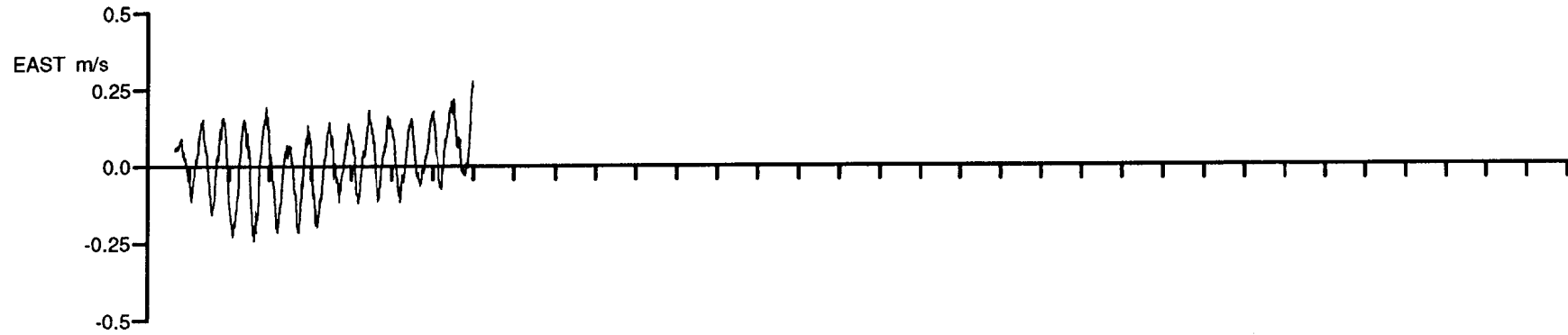
Rig No	:	00506
Meter No	:	1119
Recording interval	:	600.0 seconds
Meter height from bottom	:	102.0 m
Position of meter on rig	:	T
Meter type	:	S4
Meter started	:	07-SEP-91 13:10:00
Meter stopped	:	23-SEP-91 14:30:00
Period switched on	:	16.1 days
Period of good data	:	7.3 days
Total number of scans	:	1057
Timing error	:	None
Comments	:	Good record obtained until trawled

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 1119 Rig no. 00506 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:47:00 1991/09/15 AT 00:00:00

Position 59 40.01N 00 32.66E Meter Height(m) 102.0



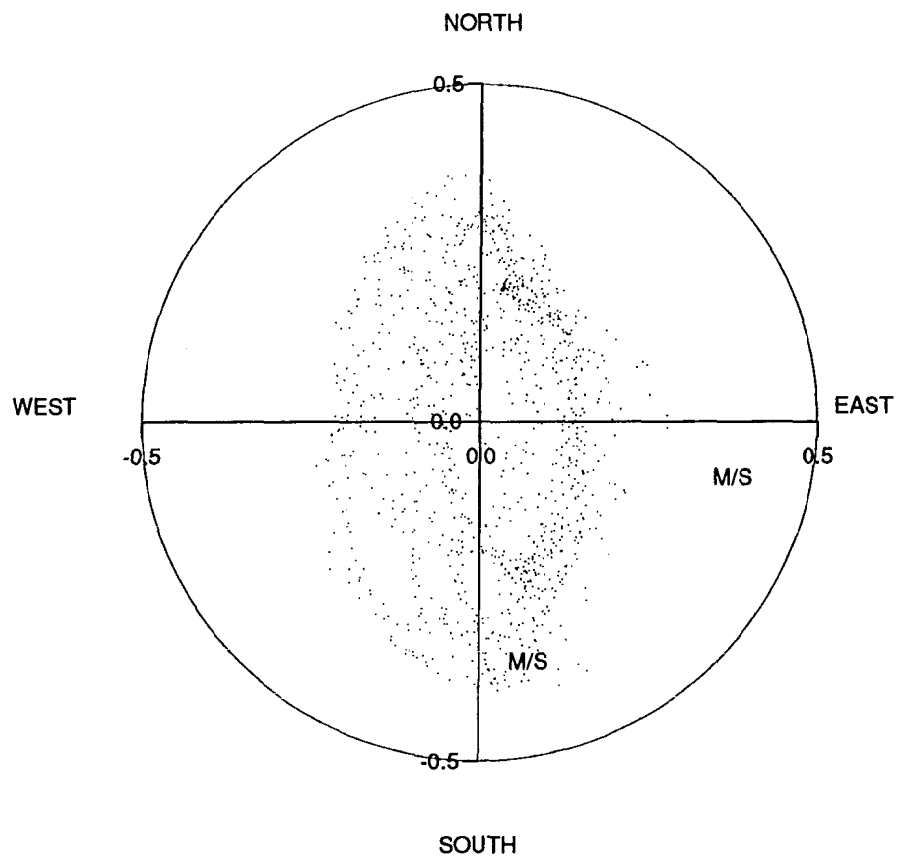
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11

91
Sep

91
Oct

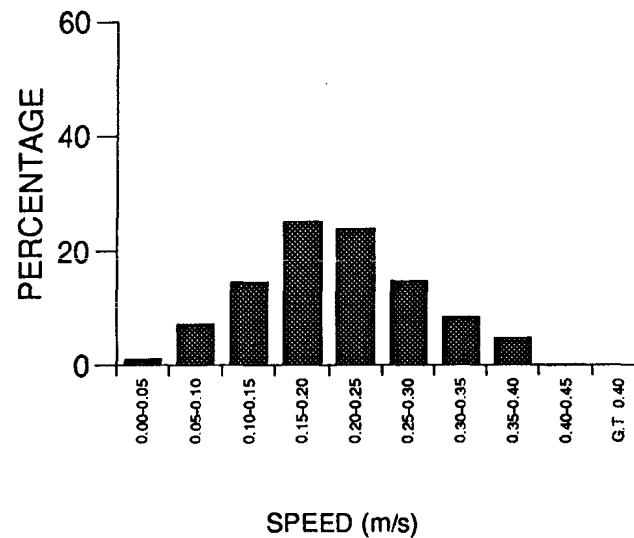
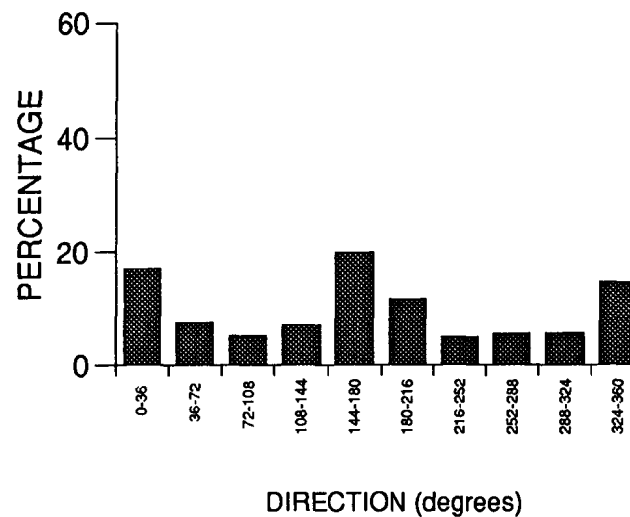
SCATTER PLOT

Meter no. 1119 Rig no. 00506 Depth of water(m) 129.0
 Start/End 1991/09/07 AT 15:47:00 1991/09/15 AT 00:00:00
 Position 59 40.01N 00 32.66E Meter Height(m) 102.0



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 1119 Rig no. 00506 Depth of water(m) 129.0
 Start/End 1991/09/07 AT 15:47:00 1991/09/15 AT 00:00:00
 Position 59 40.01N 00 32.66E Meter Height(m) 102.0

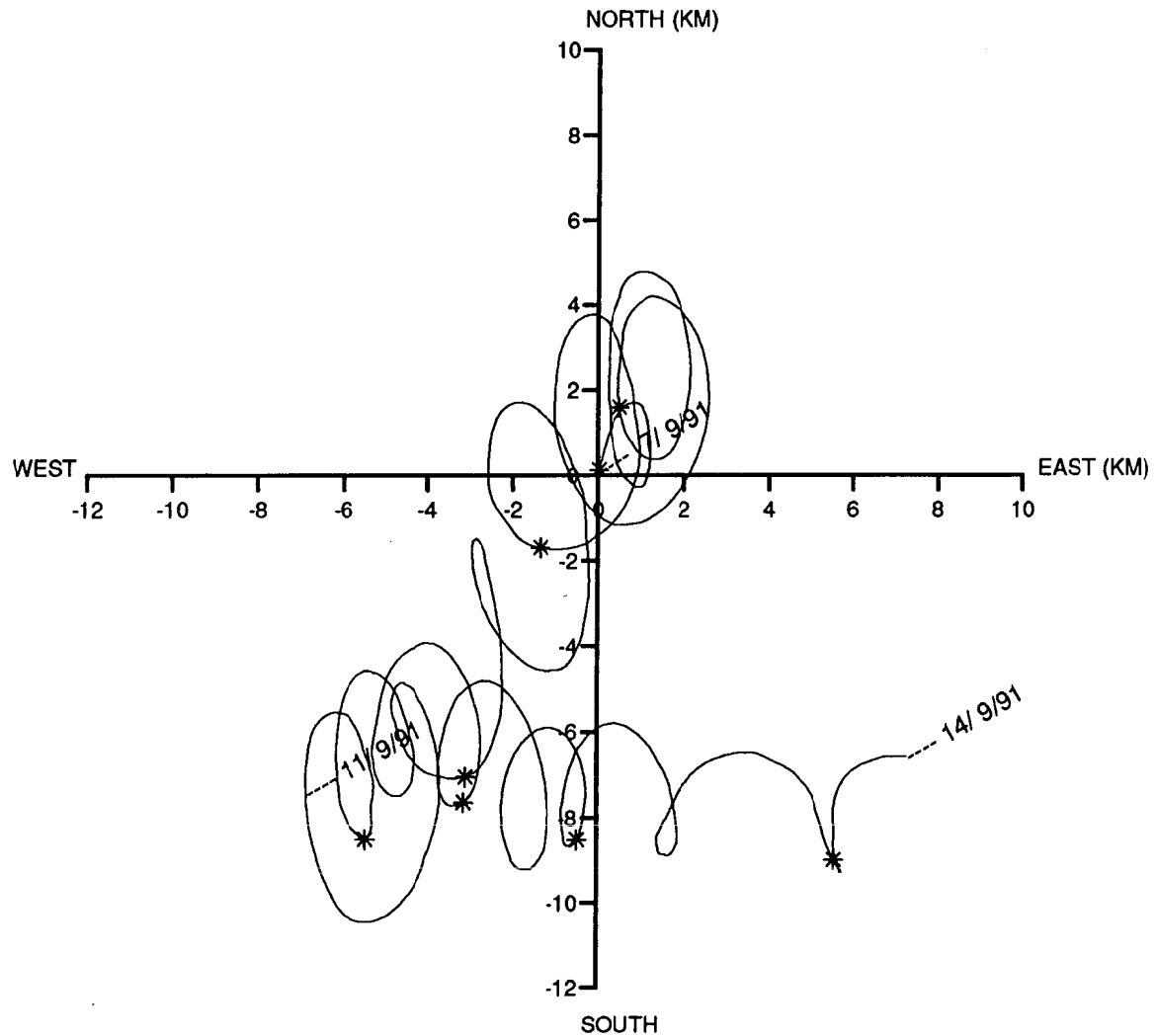


VECTOR PLOT

Meter no. 1119 Rig no. 00506 Depth of water(m) 129.0

Start/End 1991/09/07 AT 15:47:00 1991/09/15 AT 00:00:00

Position 59 40.01N 00 32.66E Meter Height(m) 102.0



Statistics for s41119t.00506s

	Mean	Variance	Standard deviation
Eastings	0.0115	0.10551134E-01	0.10271872E+00
Northings	-0.0104	0.38595323E-01	0.19645692E+00
Speed	0.2082	0.59853992E-02	0.77365361E-01
Vector mean speed	0.0155		
Vector Mean Direction	132.1		

Maximum ten values

Eastings					Northings				
0.276	0.276	0.257	0.251	0.247	0.366	0.363	0.363	0.359	0.357
0.241	0.232	0.217	0.215	0.209	0.348	0.338	0.337	0.333	0.330

Minimum ten values

Eastings					Northings				
-0.218	-0.220	-0.221	-0.221	-0.222	-0.382	-0.384	-0.385	-0.386	-0.386
-0.223	-0.224	-0.225	-0.230	-0.243	-0.388	-0.389	-0.389	-0.390	-0.395

Maximum speeds

0.406	0.400	0.396	0.392	0.392	0.390	0.388	0.387	0.387	0.387
0.386	0.386	0.384	0.383	0.382	0.382	0.382	0.378	0.378	0.377
0.376	0.375	0.374	0.371	0.370	0.367	0.367	0.366	0.366	0.365
0.365	0.364	0.364	0.362	0.362	0.359	0.359	0.358	0.358	0.357
0.357	0.355	0.354	0.353	0.353	0.353	0.353	0.353	0.353	0.352
0.351	0.348	0.348	0.348	0.347	0.346	0.346	0.344	0.342	0.342
0.341	0.341	0.341	0.340	0.337	0.337	0.336	0.336	0.334	0.332
0.330	0.329	0.329	0.329	0.328	0.326	0.325	0.325	0.325	0.324
0.323	0.323	0.323	0.322	0.321	0.320	0.320	0.320	0.320	0.319
0.319	0.319	0.318	0.318	0.318	0.317	0.316	0.316	0.315	0.315

Variance ellipse statistics

Maximum variance	0.3868E-01	Direction	-3.1
Minimum variance	0.1047E-01	Direction	86.9
Total variance	0.4915E-01	Ratio of variances	0.2707E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	5.1		
Average direction. maxdir +PI/2 to maxdir -PI/2	176.0		

Statistics for s41119t.00506sf

	Mean	Variance	Standard deviation
Eastings	-0.0181	0.83941210E-03	0.28972609E-01
Northings	-0.0101	0.20458039E-02	0.45230564E-01
Speed	0.0483	0.60105725E-03	0.24516469E-01
Vector mean speed	0.0207		
Vector Mean Direction	-119.1		

Maximum ten values

Eastings					Northings				
0.024	0.007	-0.015	-0.034	-0.045	0.034	0.033	0.015	-0.017	-0.051
-0.046	-0.001	0.000	0.000	0.000	-0.074	0.001	0.001	0.001	0.001

Minimum ten values

Eastings					Northings				
0.024	0.007	-0.015	-0.034	-0.045	0.034	0.033	0.015	-0.017	-0.051
-0.046	0.002	0.002	0.002	0.002	-0.074	0.002	0.002	0.002	0.002

Maximum speeds

0.087 0.068 0.041 0.038 0.034 0.021

Variance ellipse statistics

Maximum variance	0.2788E-02	Direction	31.7
Minimum variance	0.9711E-04	Direction	121.7
Total variance	0.2885E-02	Ratio of variances	0.3483E-01
Average direction. maxdir -PI/2 to maxdir +PI/2			-30.8
Average direction. maxdir +PI/2 to maxdir -PI/2			193.8

Meter information details for 9631

Rig No	:	00506
Meter No	:	9631
Recording interval	:	600.0 seconds
Meter height from bottom	:	85.0 m
Position of meter on rig	:	MT
Meter type	:	AS
Meter started	:	07-SEP-91 13:00:00
Meter stopped	:	24-SEP-91 14:40:00
Period switched on	:	17.1 days
Period of good data	:	0.0 days
Total number of scans	:	0
Timing error	:	None
Comments	:	Corrupted data set

Meter information details for 9633

Rig No	:	00506
Meter No	:	9633
Recording interval	:	600.0 seconds
Meter height from bottom	:	50.0 m
Position of meter on rig	:	MB
Meter type	:	AS
Period of good data	:	0.0 days
Comments	:	Meter lost

Meter information details for 3277

Rig No	:	00506
Meter No	:	3277
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.0 m
Position of meter on rig	:	B
Meter type	:	AA
Meter started	:	07-SEP-91 13:20:00
Meter stopped	:	23-SEP-91 15:09:58
Period switched on	:	16.1 days
Period of good data	:	0.0 days
Total number of scans	:	0
Timing error	:	2 seconds fast
Comments	:	Corrupted data set

Rig information details for 00507

Position Latitude	:	59 53.55N
Position Longitude	:	01 00.29E
Water depth	:	118.0 m
Deployed on cruise	:	C84
Recovered on cruise	:	C84
Site name identification	:	IA
Magnetic deviation	:	5.5 degrees west
Rig deployed on	:	07-SEP-91 10:13:00
Rig recovered on	:	14-SEP-91 16:41:00
Period of deployment	:	7.3 days
Comments	:	Launch and recovery successful