



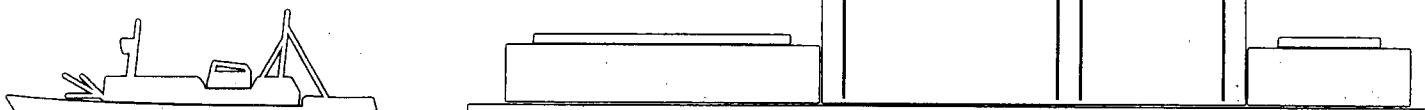
CANADA CENTRE FOR INLAND WATERS

COASTAL ZONE LIMNOLOGICAL
OBSERVATIONS IN GEORGIAN BAY
NEAR BYNG INLET

November 1975 to November 1976

by D. E. KAISER and J. A. BULL

C.C.I.W. PAPER No. 19, JULY 1978



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D. E. Kaiser
and
J. A. Bull
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ACKNOWLEDGEMENTS

The collection and presentation of a large data set requires the support of many individuals and groups within the CCIW organization. Much of the effort involved is within individual daily routine and we acknowledge here that such a project would be an unthinkable monumental task without the technical service staff. Necessarily, the following is not complete, and lists only major contributors.

<u>Personnel Involved</u>	<u>Contribution</u>
C. R. Murthy	Organization & Planning
F. M. Boyce	Organization & Planning
J. Byron	Data Handling
M. Kerman	Data Handling
F. Chiocchio	Data Handling
N. Snelling	Typing

The Scientific Support Division provided the necessary personnel and equipment to collect the data including mooring hardware, instrumentation and diver support. Drafting services, under W. Finn provided the figures and photographic work.

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INTRODUCTION

Coastal waters are increasingly the recipient of waste products of industrialization and urban growth. Related pressures in the form of sewage outfalls, chemical dumping, landfill, road salts, heat from electrical power developments, and numerous additional loadings conflict with the use of this area for recreational purposes, and other activities requiring high standards of water quality. The assessment of this human impact requires a major scientific effort towards the understanding of the complex inter-relationships between the biological and chemical responses of the receiving waters and in turn of the transport and dispersion characteristics of the affected area.

In this context C.C.I.W. has undertaken a series of field measurement programs designed to collect long-term time-series limnological data in specific coastal zones of the Laurentian Great Lakes. Data from studies at Bronte in Lake Ontario and Douglas Point in Lake Huron have been previously reported (references 1 and 2) as the first two in a projected series of climatological summaries. This report presents the data from a third site in Georgian Bay.

The specific sites studied are chosen to be representative of a broad band of Great Lakes shoreline over which dispersal conditions appear to be similar and which are areas of intense or potentially intense utilization. It is thought that the average flow properties of measurements made at such locations can reasonably

be extrapolated to areas of similar bottom topography and with similar shoreline orientation to the prevailing winds; at least within the confines of the Great Lakes Basin. Classification of the flow regimes present in a data set, the frequency of their occurrence and average duration are the properties that are important indications of the potential for dispersion of a given site. The time-series current and temperature data reported here, extending in time over the four seasons of the year, provide the vehicle for the examination of the many different flow situations encountered in such an area.

As a study in Lakes Physics, the coastal zone represents an area where bottom topography modifies the overall lake circulation and where direct forcing by local winds becomes increasingly dominant. Mathematical models do not yet exist that are capable of synthesizing the many different flow regimes into a general predictive scheme. Consequently, at this time, we are reduced to a more descriptive analysis of the coastal zone characteristics and attempt to represent them by statistical means (e.g., Dunbar & Murthy, 1977).

The voluminous data set collected by these studies can serve as testing grounds for an ongoing modelling effort. Extrapolations to specific sites of interest can be used to evaluate proposals for proposed outfalls and as reference data for environmental impact studies. The collective information of these studies is being exploited to develop mixing zones, and to

estimate mean dilution around effluent sources.

EXPERIMENTAL PROGRAM

From October 1975 to November 1976, an intensive field observational program was undertaken near Byng Inlet off the north-eastern shore of Georgian Bay (Figure 1). The area was chosen to be limnologically representative of the eastern side of Georgian Bay, a shallow, rocky, island strewn coast exposed to the prevailing winds.

The program was designed to collect long term time-series current and temperature measurements in the very near and nearshore zone. These data were to be supplemented by meteorological data from AES stations at South Baymouth, Gore Bay and Sudbury.

A drogue tracking experiment was to accompany each mooring cruise (3 total), or if inclement weather prevailed, an EBT (bathy-thermograph) survey near the mooring string was planned. This exercise produced one successful drogue-tracking and two EBT surveys; data which are not reported here (see additional data).

The basic layout of the experiment is shown in Figure 2. The current meters were laid on a line approximately perpendicular to the local shoreline from the Naiscoot River to a distance 25 km offshore. Each of moorings 1 through 8 consisted of 1 to 3 current meters at 15 m depth, 25 m and 1 metre above bottom, depth permitting. During the May/76 to Nov/76 period, the near surface mooring was moved to a 10 m depth. A typical mooring configuration is given in Figure E1. No surface buoy is employed in the winter months.

The winter period (Nov/75 to May/76) utilized Geodyne type

920 savonius rotor meters (Figure E2) for all moorings while the remainder of the study used Plessey M021 (Figure E3) rotor type for all near-surface measurements. Summaries of the type, period and data return for each mooring are given in Appendix A.

Three current and temperature staff systems (CATS - Figure E4) were located in the very-nearshore zone as stations 12 to 14. These submerged stations utilized one to three electro-magnetic current meters respectively, with an array of thermistors at one meter intervals to the surface and complete with a recorder on the bottom frame. In addition, stations 13 and 14 used towers, fixed by guys and rock bolts, to support the upper current meters. Instrumentation problems plagued the current measurement portion of these systems, and only the temperature data was sufficiently complete to report here (Appendix D). A meteorological station (Figure E5) was operated near Station 8, but is not reported (see additional data).

Three fixed temperature profiler stations (Figure E6) designed for time-series temperature measurements at 21 depths were spaced along the mooring line as stations 9, 10, and 11. These FTP stations were to operate from mid-May to Nov/76, but cable manufacturing problems delayed installation until 15 June for Station 9 and early July for Station 11. The large gap over September for this latter station was due to a tape tangle in the recording instrument. Figure A2 in Appendix A presents an FTP data summary in a bar chart form. Instrument specifications are given in Appendix E.

DATA PRESENTATION

The methods used to display the data reported here are consistent with previous GCIW Limnological Summaries (i.e., Bull, Farooqui et al., 1976, Jordan and Bull, 1977, Kerman, Hyde and Bull, 1978). In keeping with the format of this series, the data has been organized by calendar month; in fact, an artificially convenient time scale. The presentation is a standard time-series set of scalar or vector plots and 'rose' histograms summarizing mooring data on a month by month basis. Certain changes have been adopted. The current speed and direction (S & D) display previously employed (e.g., Appendix C - Jordan & Bull, 1978) has not been found particularly useful and is not included here. Secondly, temperature data recorded by the current meters is presented as a time-series plot accompanying the vector summary in Appendix C here.

The data reported are time-series collections of meteorological, current and temperature measurements. A digital low pass filter (Graham, 1963) and 'Boxcar' averaging techniques are employed to facilitate data handling and presentation. The response characteristics of the filters applied to the data are shown in Figure 3. Cut-off periods for the filters were chosen from a lakes physics perspective to remove periods less than 5 hours or less than 18 hours, roughly the inertial period. For computer economy only 8 filter weights were chosen for the 5 hour and 46 for the 18 hour filter. The corresponding number of points are then deleted from the beginning and end of the data between significant gaps. Filters were applied before averaging.

Appendix A summarizes the time-series data available from the study in both tabular and bar chart form.

The data displays are given in the appendices. Appendix B contains the monthly meteorological summaries. Appendix C contains the current meter temperature and vector displays. Finally, the FTP and CATS temperature data are given in Appendix D.

The contents and data handling procedures for each of the above displays are now outlined briefly.

I Meteorological Summaries

Appendix B shows monthly meteorological summaries from the A.E.S. Station at South Baymouth on the southeast side of Manitoulin Island. The presentation is in our standard format as follows:

- (a) Time series of wind vectors: hourly averaged records were smoothed with a digital filter (Figure 3) to remove periods less than 18 hours and then averaged over 6 hours. Direction is displayed as 'towards' to be consistent with oceanographic practice.
- (b) Time series of wind speed and direction: hourly averaged values were smoothed with digital filter to remove periods less than 5 hours. Direction is 'towards'.
- (c) Time series of hourly averaged values of air and surface water temperature.
- (d) Table of maximum and minimum hourly averaged air temperature values on a daily basis.

Note that (c) and (d) are not available for the South Bay Mouth Station.

II 'Rose' and Temperature, Current Time-Series

Appendix C contains monthly wind and current 'Rose' summaries displayed opposite to the corresponding time-series summaries of wind speed-squared vectors, current vectors and current meter temperature for a station-month. These complementary pairs are repeated in a mooring by mooring fashion, month by month.

Details are as follows:

- (a) Wind "rose" histogram: hourly values of wind data for 1 month were classified and tabulated by speed and direction. Speed classes were defined as 0 to 3, 3 to 7, and greater than 7 m-sec^{-1} . The geographical axes of direction have been rotated so that north flow points at the right-hand side of the page. The direction is classified into 8 equal sectors.
- (b) Current 'rose' histogram: hourly averaged values of current data for 1 month were classified and tabulated by speed and direction. Speed classes were defined as 0 to 5, 5 to 15, and greater than 15 cm-sec^{-1} . Direction classes were defined as above for wind. If less than 25 percent of the possible wind or current data were available for the month, no summary was produced.
- (c) Time series of wind stress vectors computed as wind speed squared and averaged over 6 hours. Consistent with oceanographic convention, direction is "towards" for both wind and current.

- (d) Time series of current vectors; hourly averages were smoothed with a digital filter to remove periods less than 18 hours and averaged over 6 hours.
- (e) Time series of temperatures observed by current/temperature meters. Records were averaged over 1-hour periods.

III Temperature Stations (FTP & CATS) Data Summary

Appendix D shows isotherm time-series and daily averaged profile displays for the 3 FTP stations. Temperature data from the CATS (nearshore) stations showed mixing to the bottom for most of the period during which these stations operated; a feature that does not easily lend itself to either isotherm or profile time-series. CATS temperature records are presented as fixed-depth time series. The format of the Appendix gives FTP profile, FTP isotherm and CATS (constant depth) by month. Data handling details are as follows:

- (a) Time-series of temperature profiles observed by the FTP: 10-minute records from each thermistor were boxcar averaged over 1 day to represent a daily temperature profile.
- (b) Isotherm time-series of FTP temperature records: Specified isotherms were calculated from 10 minute records using linear interpolation between thermistor pairs immediately above and below the required isotherm.
- (c) Time-series constant depth temperature displays of CATS data: 10-minute records from each system were linearly interpolated for three depths, surface, mid-column and near bottom, (where possible).

ADDITIONAL DATA

The following data are available, but not reported in this summary:

- (1) Additional meteorological display summaries from the A.E.S. stations at Gore Bay ($45^{\circ} 53' N$, $82^{\circ} 34' W$) and Sudbury ($46^{\circ} 37' N$, $80^{\circ} 48' W$) are available from Nov/75 to Mar/76.

Data for: Wind Speed

Wind Direction

Relative Humidity

Air Temperature and

Surface Water Temperature

is available from the CCIW meteorological station 76-5M-08A near the current meter mooring 8 shown on Figure 2 (approximately 25 km from shore).

This data covers the periods 13 July/76 to 17 Aug/76 and 21 Sept/76 to Nov/76 only.

- (2) One-half hour observations of the tracks of seven drogues were recorded from 2000 hr (GMT) 9 May/76 to 1230 hr 12 May/76. The drogues were initially set 0.5 km north-east of Station 8 (see Figure 2) and observed from anchorage at $45^{\circ} 33' 30'' N$ and $80^{\circ} 47' 48'' W$. The drogues were a "window-blind" type set at 5 metres depth.
- (3) Sequential temperature - depth electronic bathythermograph profiles were taken during the

period 1145 hr (GMT) 12 July/76 to 1845 hr 14 July/76 at stations D2 through D15. The station locations are given in Table 1. These stations are located on a line approximately 056° T, parallel to the mooring line (Figure 2) and offset 2 km to the north and south. Each survey line was run 15 times in a continuous fashion.

Table 1: July EBT Sampling Grid

North Line	056° T	2 mi offset to north from moorings
	LATITUDE	LONGITUDE
D15	45 34 55	80 52 00
D2	45 36 04	80 49 30
D3	45 37 04	80 47 23
D4	45 38 00	80 45 35
D5	45 38 45	80 43 50
D6	45 39 28	80 42 27
D7	45 40 06	80 41 03

South Line	056° T	2 mi offset to south from moorings
D8	45 36 19	80 37 35
D9	45 35 55	80 38 55
D10	45 35 10	80 40 25
D11	45 34 23	80 42 08
D12	45 33 31	80 44 00
D13	45 33 33	80 46 08
D14	45 31 22	80 48 30

- (4) Sequential Temperature - depth EBT profiles were taken during the period 1404 hr (GMT) 22 Sept/76

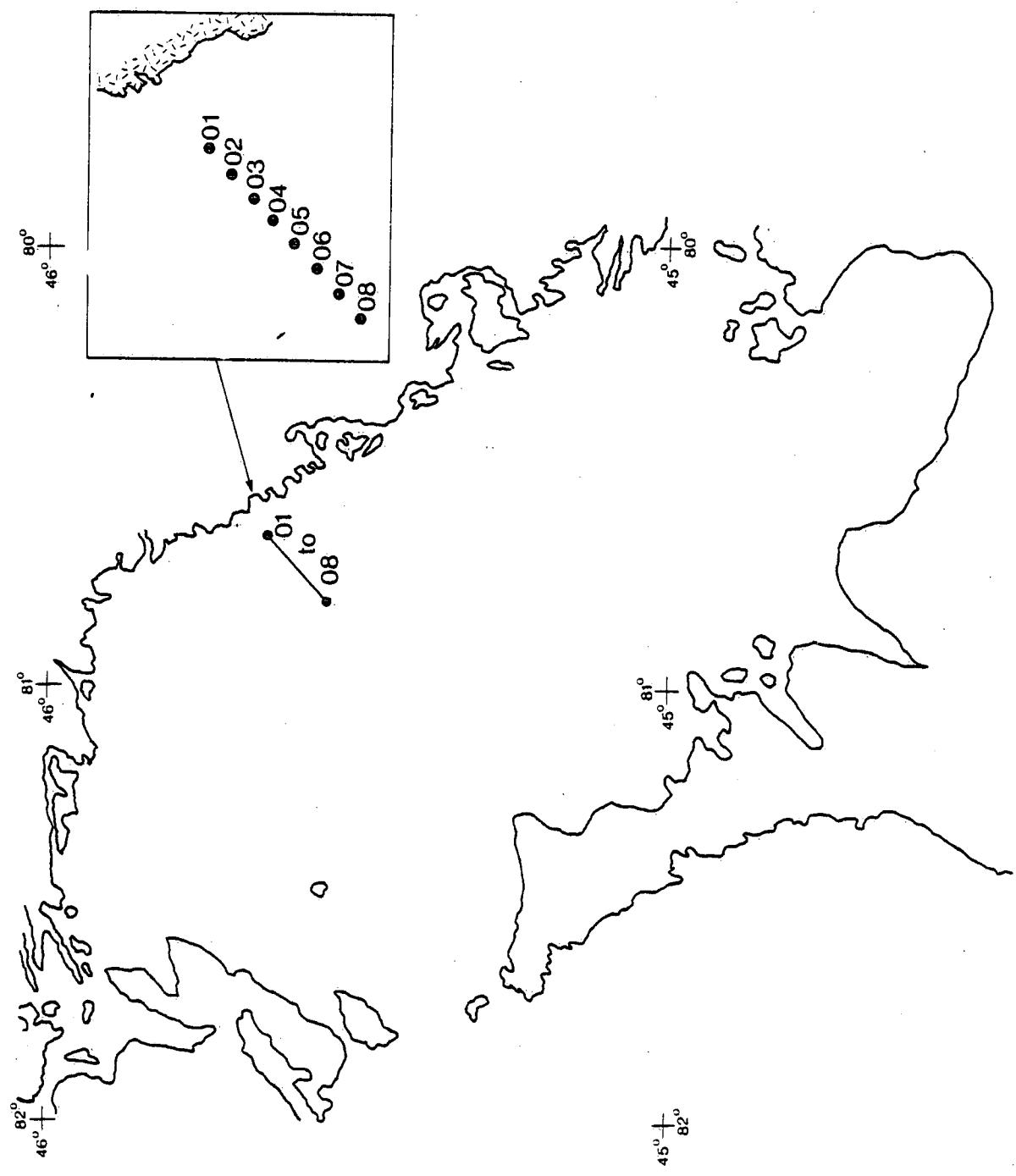
and 2129 hr 25 Sept/76 at stations A1 through A8, B1 through B8 and C1 through C8. The station locations are given in Table 2. Line A is north of the mooring line while B and C lie south. The survey lines, A, B, and C were run 4, 10, and 5 times respectively, in the order BCBABCB, etc.

Table 2: September EBT Sampling Grid

STATION	POSITION	
	LATITUDE	LONGITUDE
A1	45° 40' 00"	80° 41' 05"
A2	45° 39' 25"	80° 42' 25"
A3	45° 38' 40"	80° 43' 50"
A4	45° 37' 55"	80° 45' 35"
A5	45° 37' 10"	80° 47' 20"
A6	45° 36' 00"	80° 49' 35"
A7	45° 34' 55"	80° 52' 00"
A8	45° 33' 40"	80° 54' 30"
B1	45° 37' 55"	80° 38' 25"
B2	45° 37' 10"	80° 40' 00"
B3	45° 36' 25"	80° 41' 30"
B4	45° 35' 35"	80° 43' 20"
B5	45° 34' 45"	80° 45' 00"
B6	45° 33' 40"	80° 47' 15"
B7	45° 32' 35"	80° 49' 40"
B8	45° 31' 20"	80° 52' 20"
C1	45° 35' 10"	80° 35' 25"
C2	45° 34' 25"	80° 37' 05"
C3	45° 33' 35"	80° 38' 50"
C4	45° 32' 45"	80° 40' 30"
C5	45° 31' 55"	80° 42' 25"
C6	45° 30' 55"	80° 44' 30"
C7	45° 29' 45"	80° 46' 55"
C8	45° 28' 30"	80° 49' 35"

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CCIW lake current observations (Georgian Bay 1975/76)
 • Location and designation of current meter stations

Figure 1.

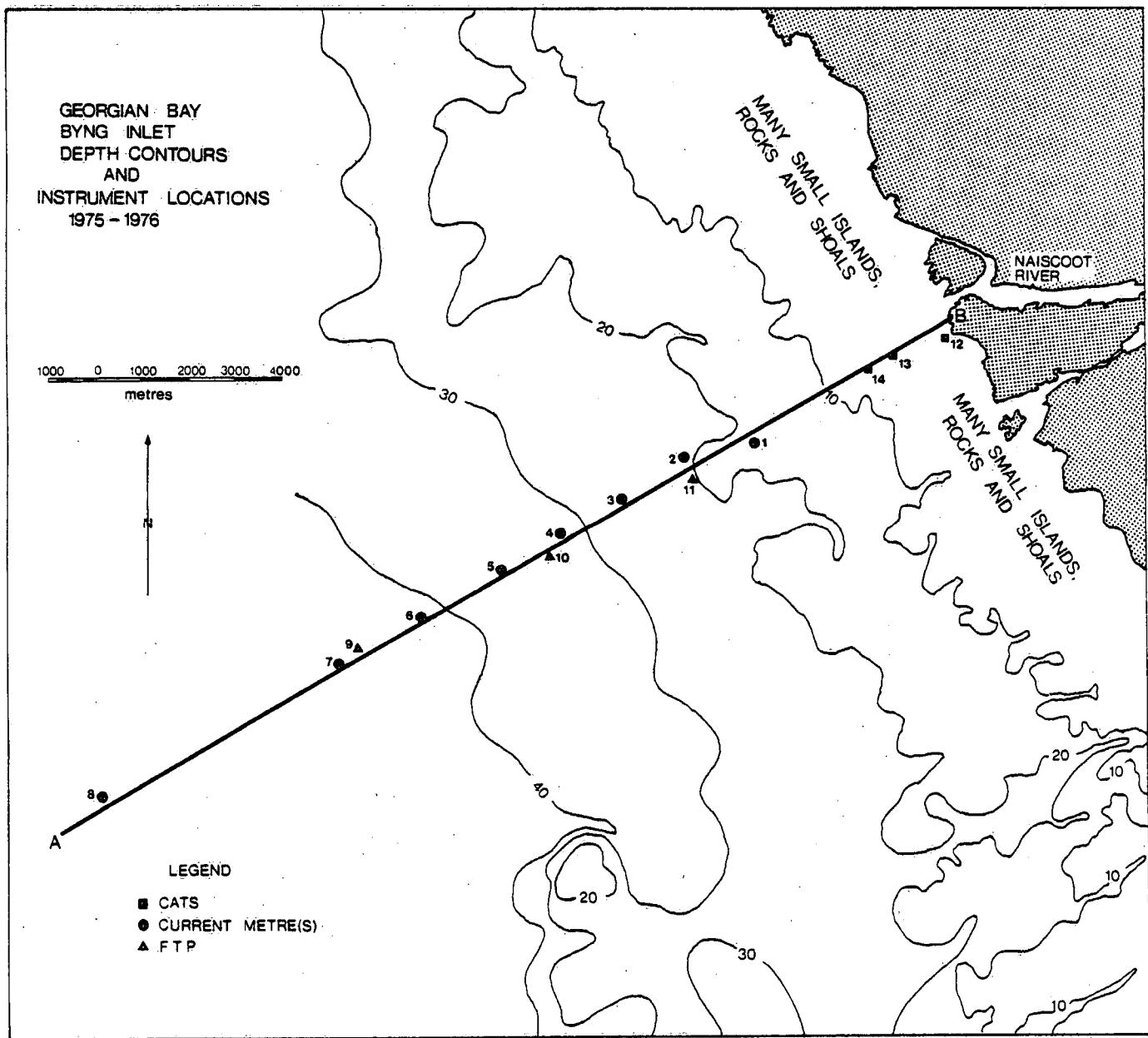
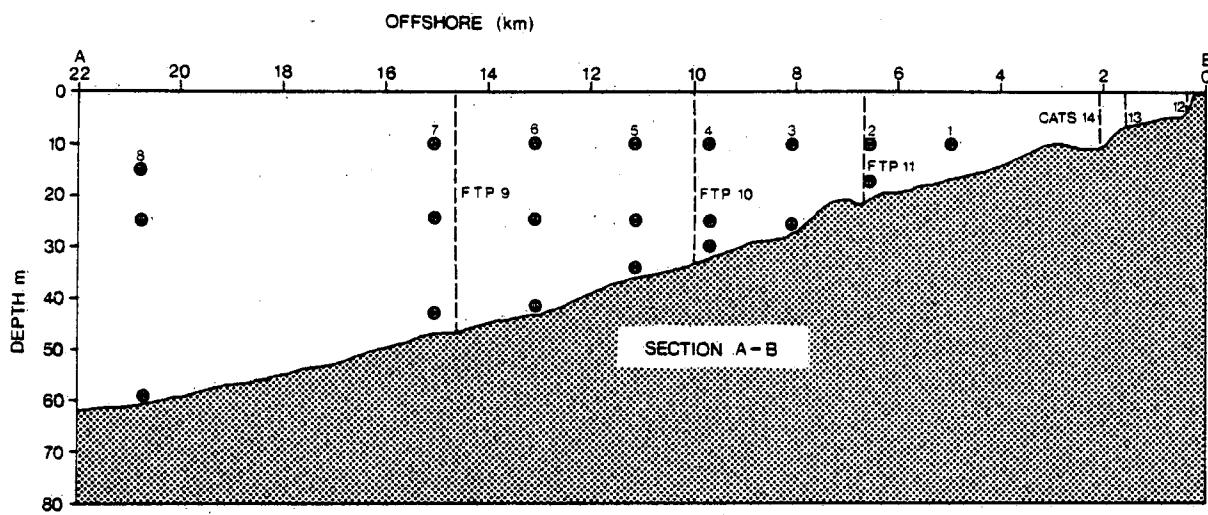
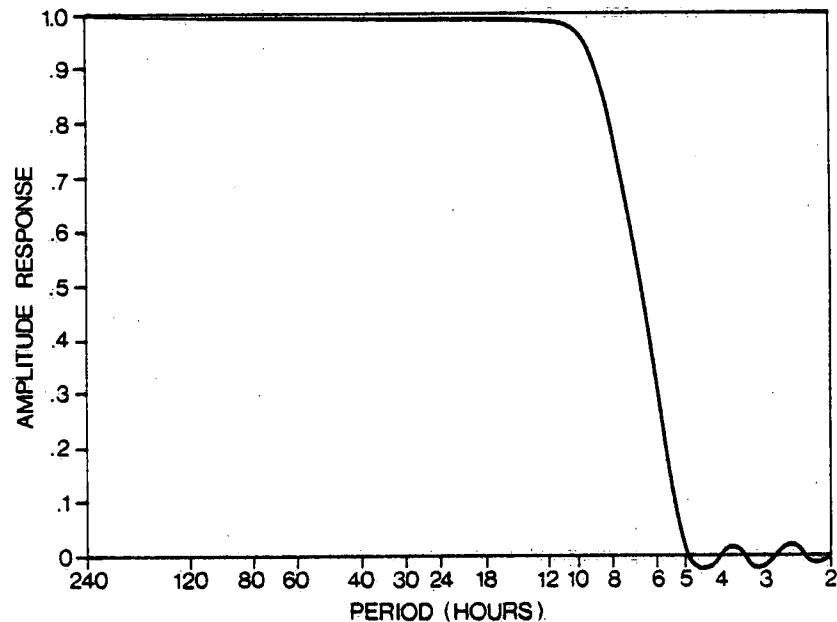


Figure 2.

AMPLITUDE RESPONSE OF FILTERS APPLIED
TO CURRENT AND WIND DATA

5 HOUR FILTER (0.0 - 0.2 cph)



18 HOUR FILTER (0.0 - 0.05 cph)

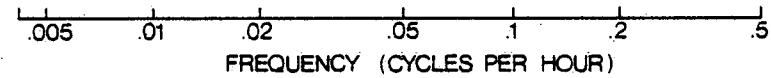
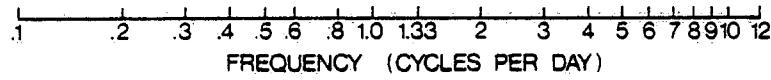
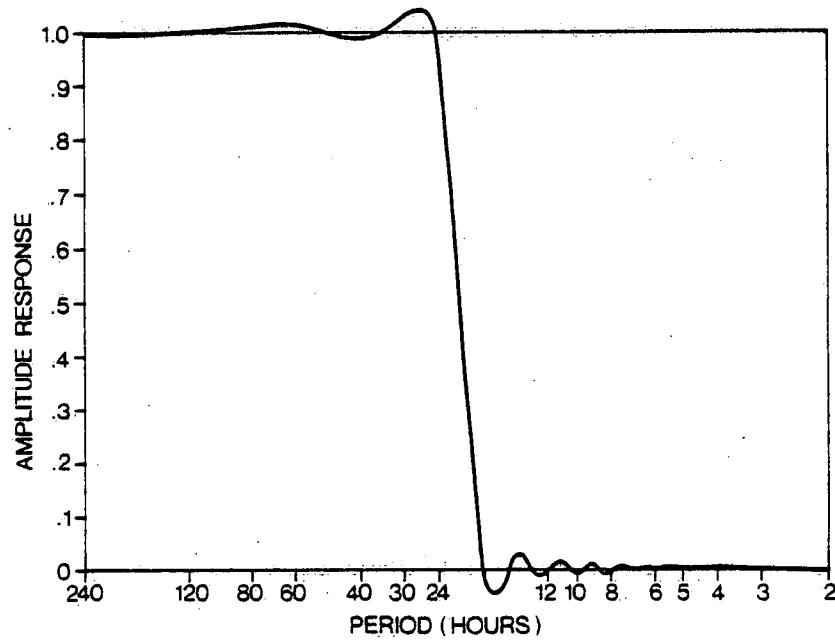


Figure 3.

APPENDIX A: DATA SUMMARY

TIME SERIES DATA COLLECTION SUMMARY: BYNG INLET, GEORGIAN BAY 1975/76

Mooring Number	Variables Measured	Instruments	Water Depth m	Instrument Depths m
1	CS/CD/WT	GCM/PCM	17	15/10
2	CS/CD/WT	GCM/PCM GCM	23	15/10 17
3	CS/CD/WT	GCM/PCM GCM	28	15/10 26
4	CS/CD/WT	GCM/PCM GCM/PCM GCM	32	15/10 25 30
5	CS/CD/WT	GCM/PCM GCM GCM	36	15/10 25 34
6	CS/CD/WT	GCM/PCM GCM/PCM GCM	44	15/10 25 42
7	CS/CD/WT	GCM/PCM GCM GCM	45	15/10 25 43/55
8	CS/CD/WT	GCM GCM GCM	61	15 25 59
9	WT	FTP	47	0.4, 1.4, 4.0 5.0, 7.0, 9.0 11.0, 13.0, 15.0 17.0, 19.0, 21.0 23.0, 25.0, 27.0 29.0, 31.0, 34.0 37.0, 40.0, 43.0

Useful Data Period	Sampling Rate Min	Latitude	Longitude
Oct 30/April 29 July 7/Sept 21	20	N45° 38' 06"	W80° 39' 20"
Oct 30/Sept 21 Sept 21/Oct 28	20 20/10	N45° 37' 56"	W80° 40' 26"
Oct 30/Nov 11 Oct 30/Jan 31	20 20/10	N45° 37' 25"	W80° 41' 28"
Oct 30/Sept 21 May 8/July 9 Oct 30/Oct 3	20 20 20/10	N45° 37' 00"	W80° 42' 29"
Oct 30/May 6 Sept 21/Nov 5 May 8/Nov 5 Oct 30/Aug 27	20 20/10 20/10	N45° 36' 34"	W80° 43' 28"
Oct 30/Sept 21 Oct 20/July 26 Sept 21/Nov 5 Oct 20/Oct 18	20 20/10 20/10	N45° 36' 02"	W80° 44' 48"
Oct 30/Nov 5 Oct 30/July 30 Oct 30/Nov 5	20 20/10 20/10	N45° 35' 30"	W80° 46' 10"
Oct 30/Jan 31 Oct 30/May 4 Oct 30/April 26	20 20 20	N45° 33' 58"	W80° 50' 06"
June 17/Nov 5	10	N45° 35' 40"	W80° 45' 50"

Table A1

Mooring Number	Variables Measured	Instruments	Water Depth m	Instrument Depths m
10	WT	FTP	33.5	0.4, 1.4, 4.0 5.0, 6.0, 7.0 8.0, 9.0, 10.0 11.0, 12.0, 13.0 15.0, 17.0, 19.0 21.0, 23.0, 25.0 27.0, 29.0, 31.0
11	WT	FTP	22.9	0.4, 1.4, 4.0 4.5, 5.0, 6.0 7.0, 8.0, 9.0 10.0, 11.0, 12.0 13.0, 14.0, 15.0 16.0, 17.0, 18.0 19.0, 20.0, 21.0
12	WT	CATS	4	0.3, 1.8, 2.8 3.8
13	WT	CATS	6.7	0.3, 2.7, 3.7 4.7, 5.7, 6.7
14	WT	CATS	11	5.5, 6.5, 7.5 8.5, 9.5, 11.0

WT - Water Temperature

CS - Current Speed

GCM - Geodyne Current Meter

CD - Current Direction

PCM - Plessey Current Meter

CATS - Current and Temperature Staff System

FTP - Fixed Temperature Profiler

Useful Data Period	Sampling Rate min	Latitude	Longitude
May 8/Nov 11	10	N45° 36' 44"	W80° 42' 40"
July 11/Aug 30 Oct 20/Nov 5	10	N45° 37' 38"	W80° 40' 18"
June 15/Oct 5	10	N45° 39' 17"	W80° 36' 09"
June 18/Nov 4	10	N45° 39' 04"	W80° 37' 01"
June 14/Sept 8	10	N45° 38' 56"	W80° 37' 26"

Table A1 (cont.)

CCIW lake current observations (Georgian Bay 1975/76)

OCT 10 20 NOV 10 20 DEC 10 20 JAN 10 20 FEB 10 20 MAR 10 20 APR 10 MAY 10

MAY 10 20 JUN 10 20 JUL 10 20 AUG 10 20 SEP 10 20 OCT 10 20 NOV 10

Resumé of temperature and current velocity data return

Temperature
Speed
Direction

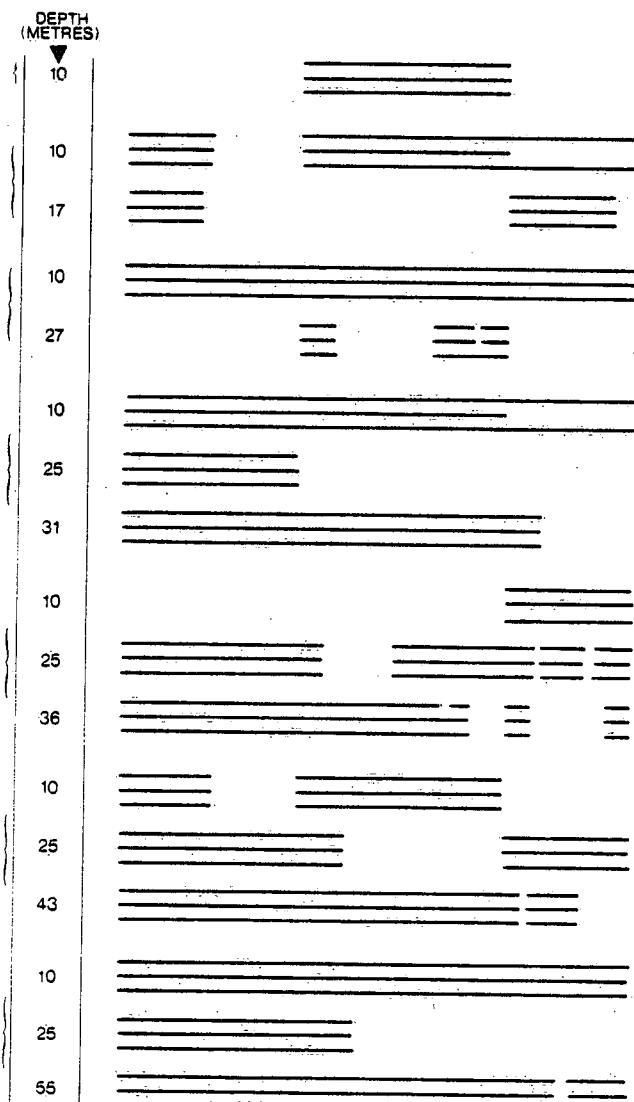
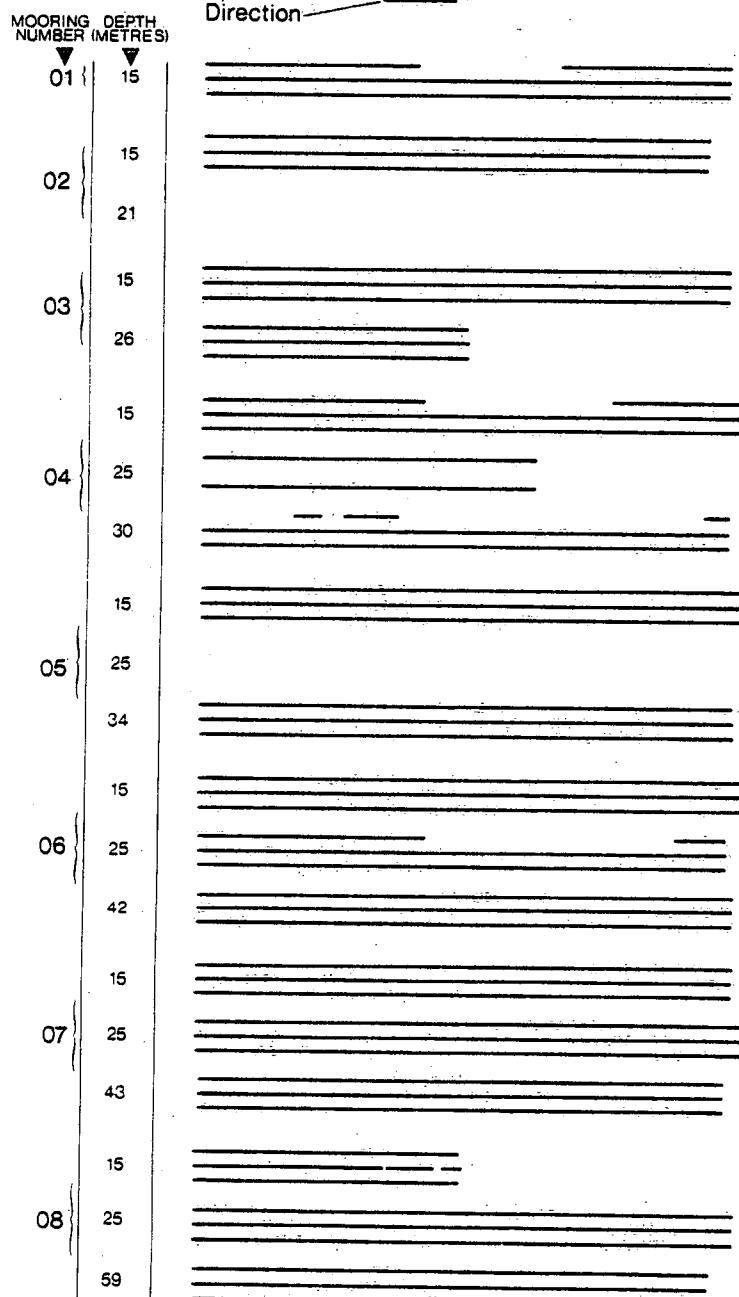
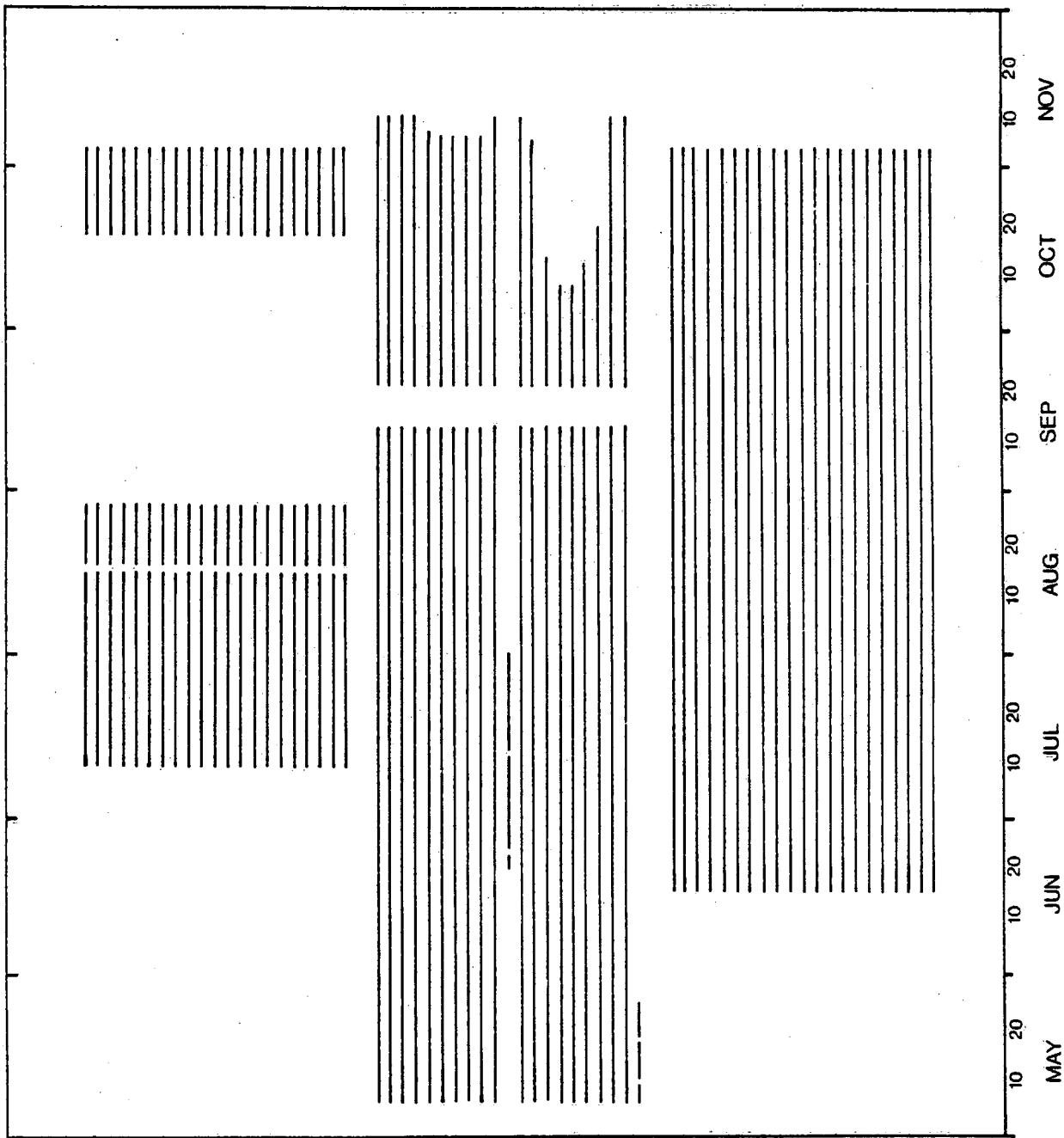


Figure A2



20 m
Station 11
21 thermistors

30 m
Station 10
21 thermistors

45 m
Station 9
21 thermistors

Figure A3

APPENDIX B: METEOROLOGICAL DISPLAYS

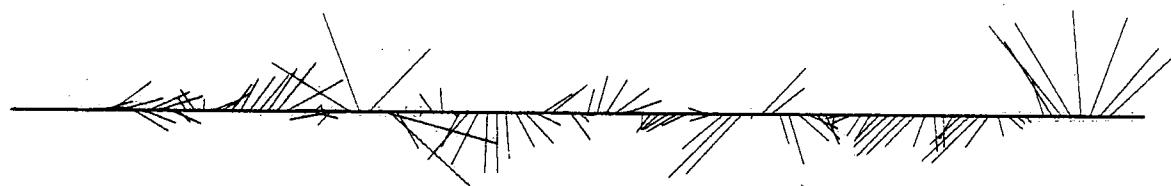
METEOROLOGICAL DATA

MOORING: SOUTH BAY DATE: NOV 1975

FILTERED WIND (0.0-0.05 cph)

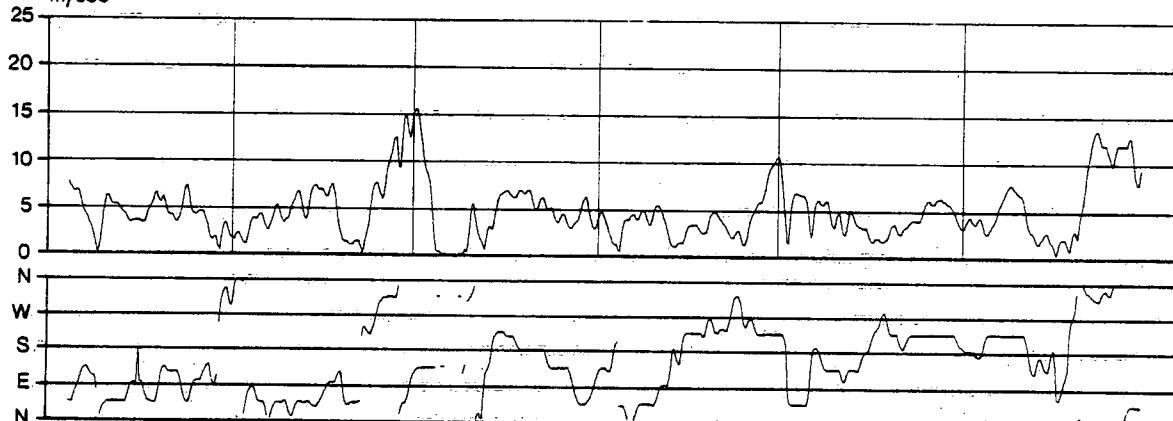
0 10 m/sec

N



FILTERED WIND (0.0-0.2 cph)*

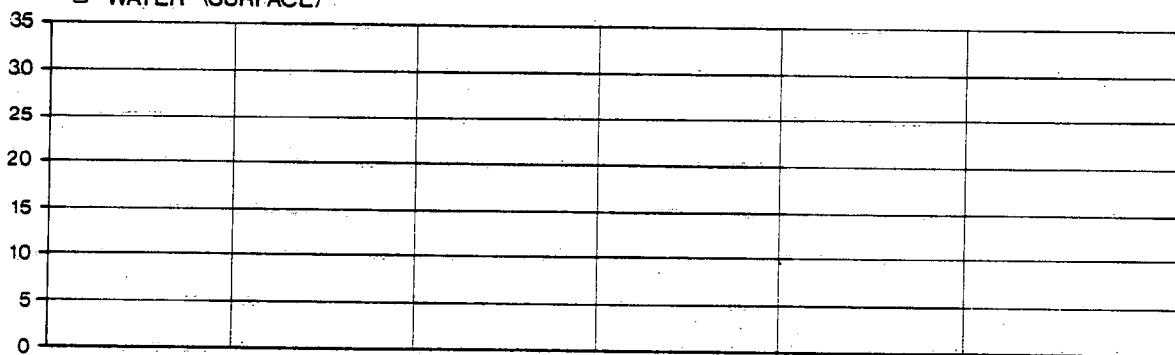
m/sec



* DIRECTION TOWARDS

O AIR 4 m ABOVE WATER
△ WATER (SURFACE)

TEMPERATURE °C



'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' '31'

DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

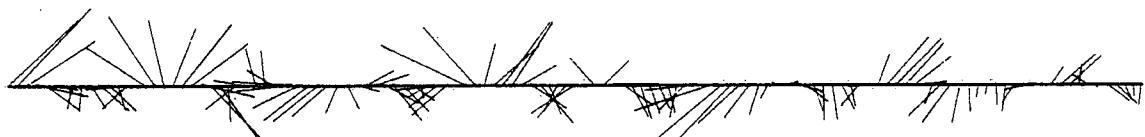
METEOROLOGICAL DATA

MOORING: SOUTH BAY DATE: DEC 1975

FILTERED WIND (0.0-0.05 cph)

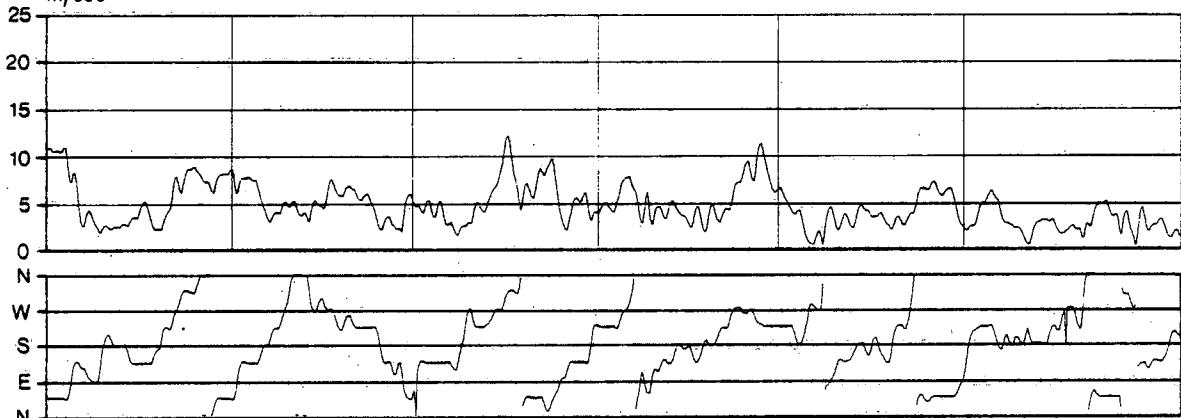
0 10 m/sec

N



FILTERED WIND (0.0-0.2 cph)*

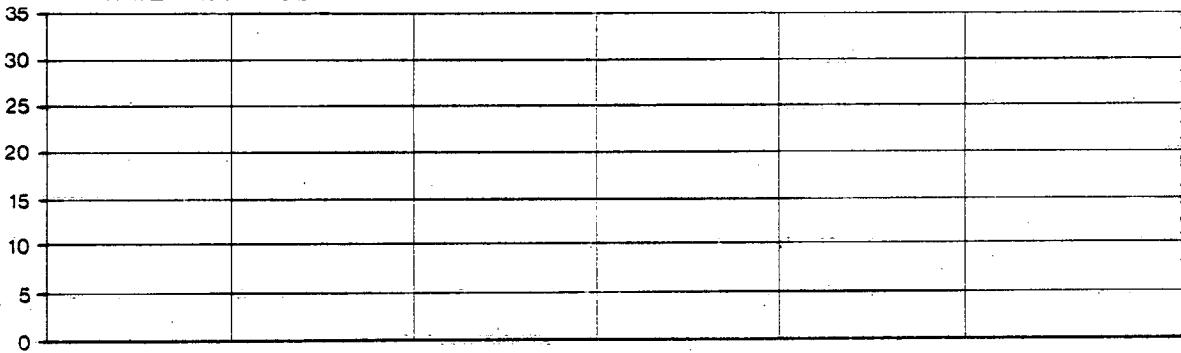
m/sec



* DIRECTION TOWARDS

TEMPERATURE °C

○ AIR 4 m ABOVE WATER
△ WATER (SURFACE)



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 31

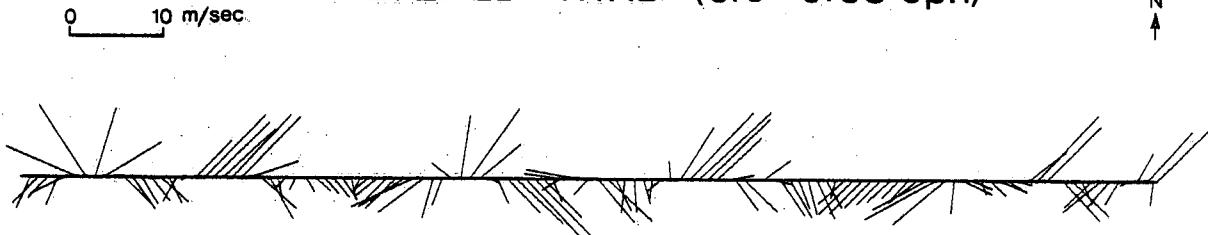
DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

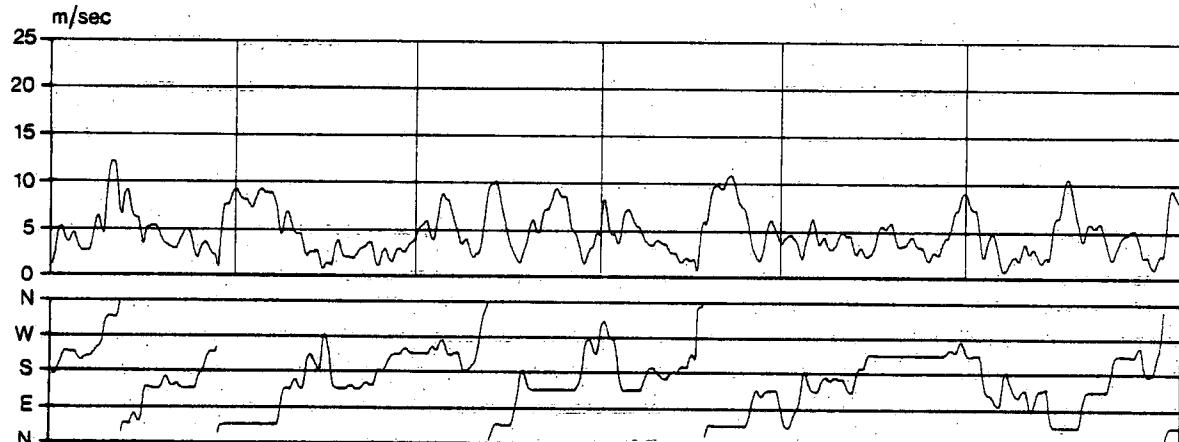
METEOROLOGICAL DATA

MOORING: SOUTH BAY **DATE:** JAN 1976

FILTERED WIND (0.0–0.05 cph)



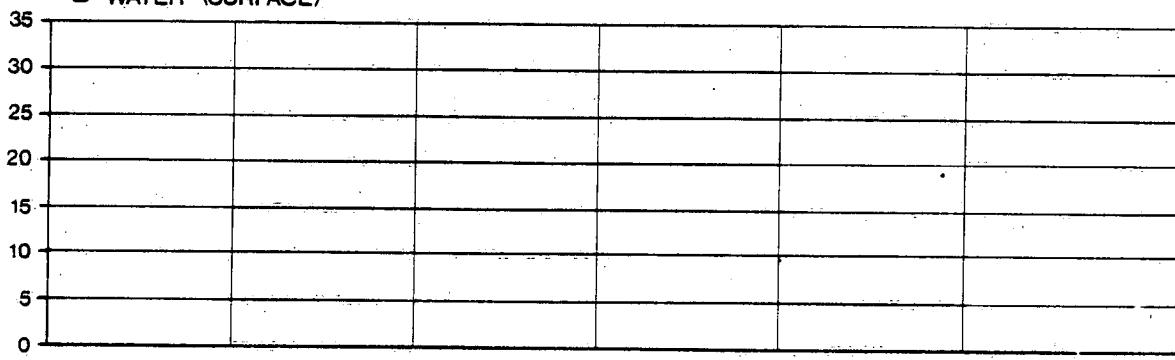
FILTERED WIND (0.0–0.2 cph)*



*** DIRECTION TOWARDS**

- AIR 4 m ABOVE WATER
- △ WATER (SURFACE)

TEMPERATURE °C



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 31

DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

METEOROLOGICAL DATA

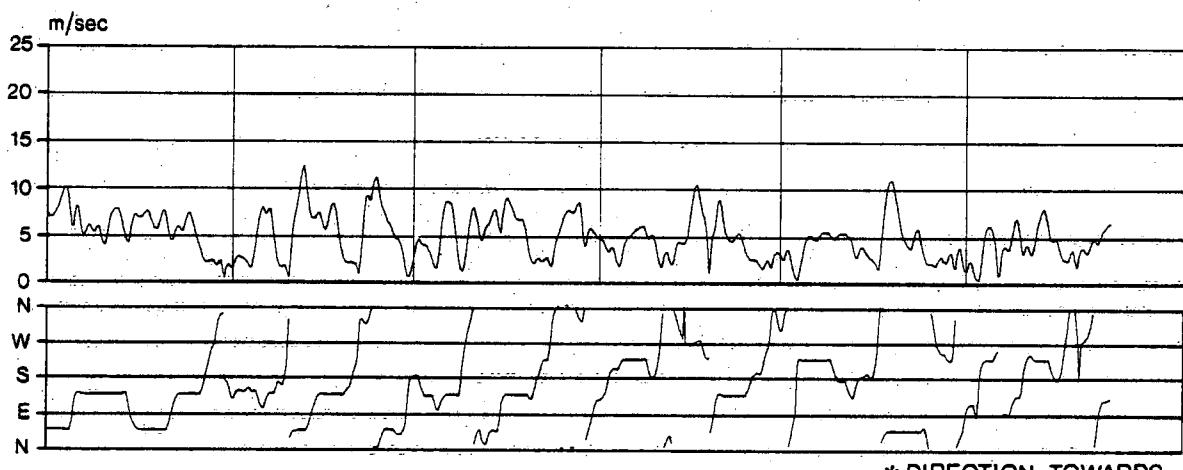
MOORING: SOUTH BAY DATE: FEB 1976

FILTERED WIND (0.0-0.05 cph)

0 10 m/sec

N

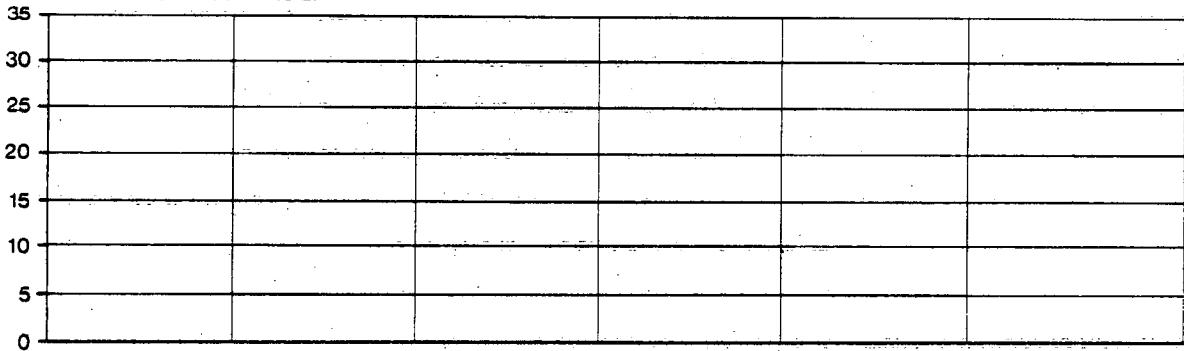
FILTERED WIND (0.0-0.2 cph)*



* DIRECTION TOWARDS

TEMPERATURE °C

○ AIR 4 m ABOVE WATER
△ WATER (SURFACE)



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 31

DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

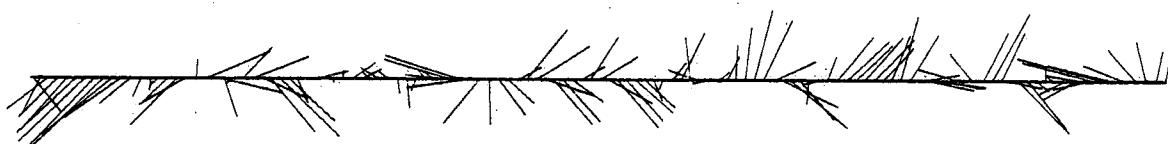
METEOROLOGICAL DATA

MOORING: SOUTH BAY DATE: MAR 1976

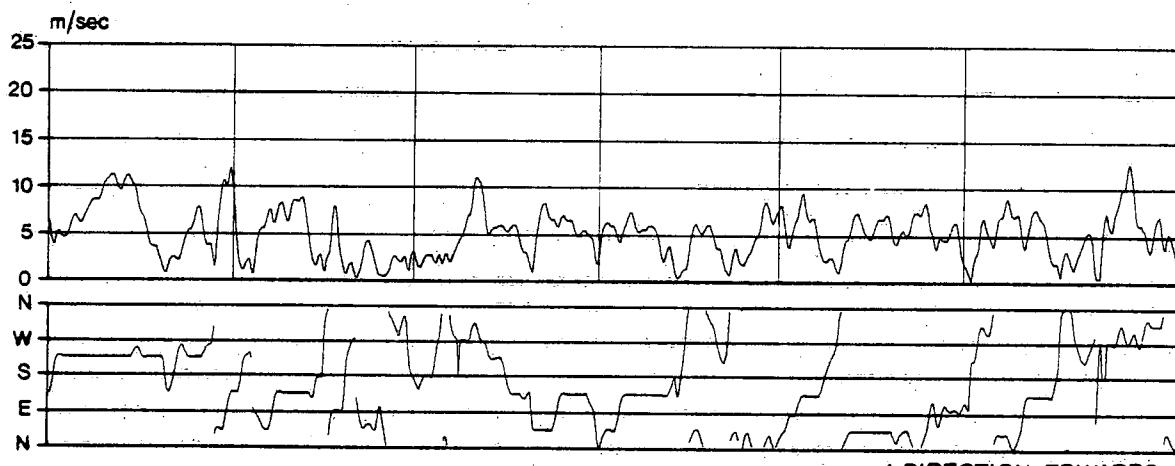
FILTERED WIND (0.0-0.05 cph)

0 10 m/sec.

N

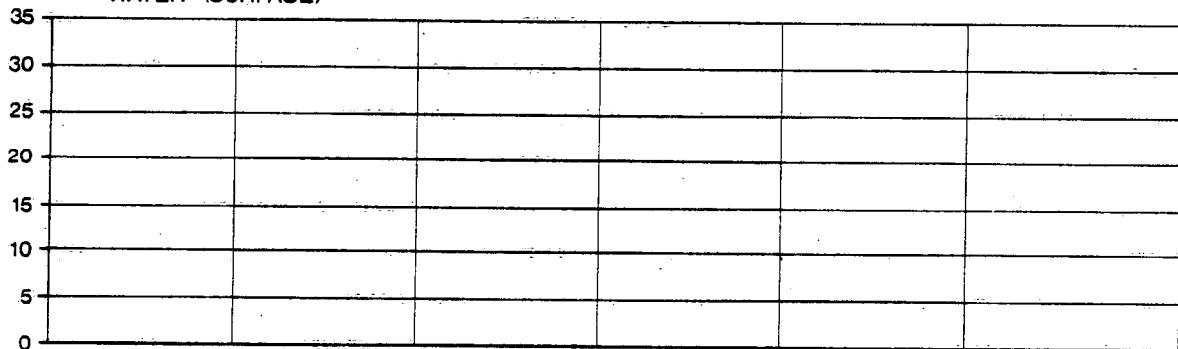


FILTERED WIND (0.0-0.2 cph)*



O AIR 4 m ABOVE WATER
△ WATER (SURFACE)

TEMPERATURE °C



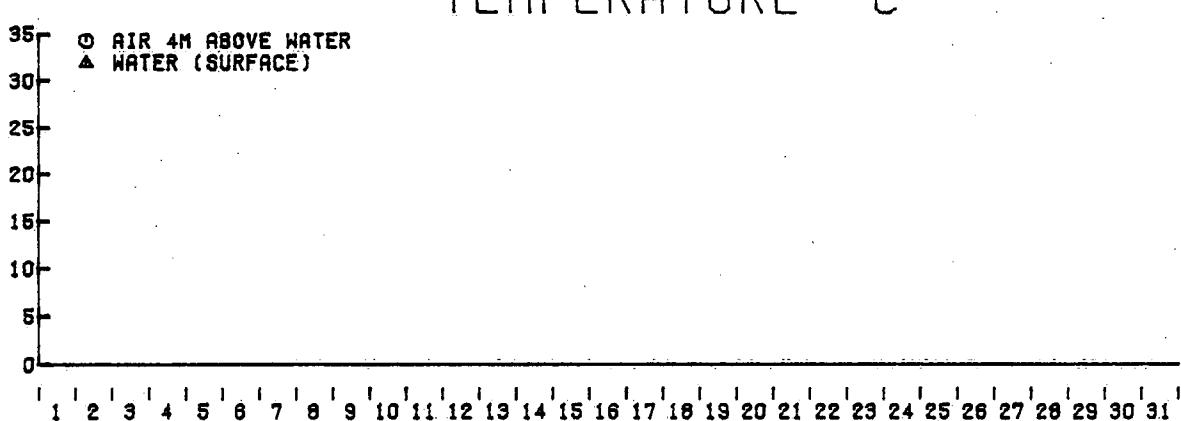
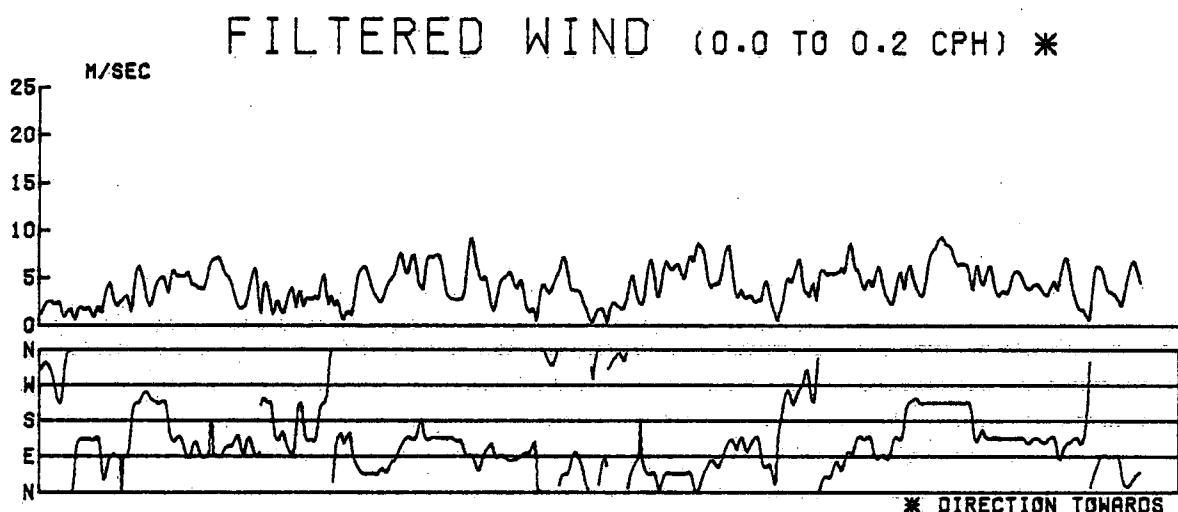
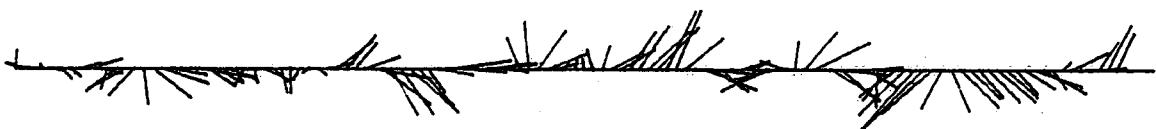
DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

METEOROLOGICAL DATA
 MOORING: SOUTH BAY DATE: APR 1976
 FILTERED WIND (0.0 TO 0.05 CPH)

0 10 M/SEC

N ↑

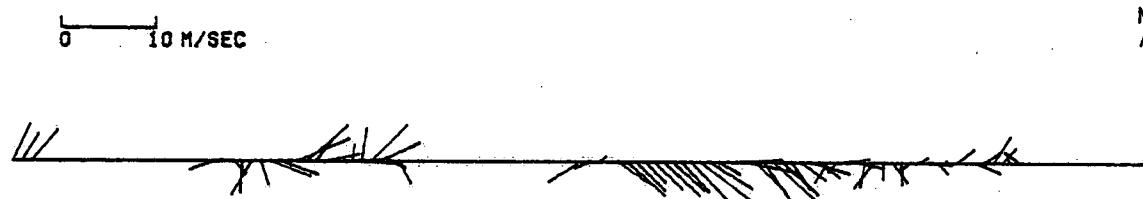


DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

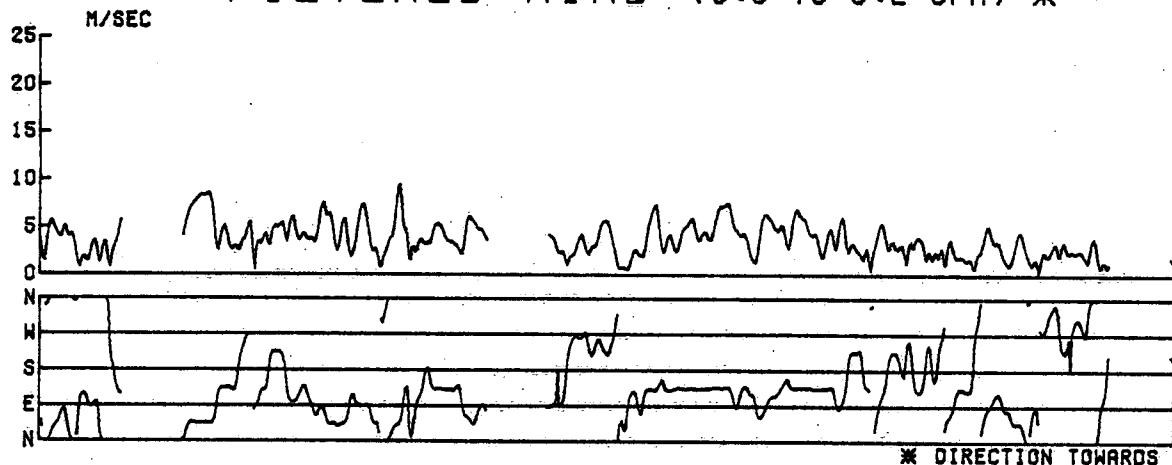
DAY	TMAX	TMIN									
1			9			17			25		
2			10			18			26		
3			11			19			27		
4			12			20			28		
5			13			21			29		
6			14			22			30		
7			15			23			31		
8			16			24					

METEOROLOGICAL DATA
MOORING: SOUTH BAY DATE: MAY 1976

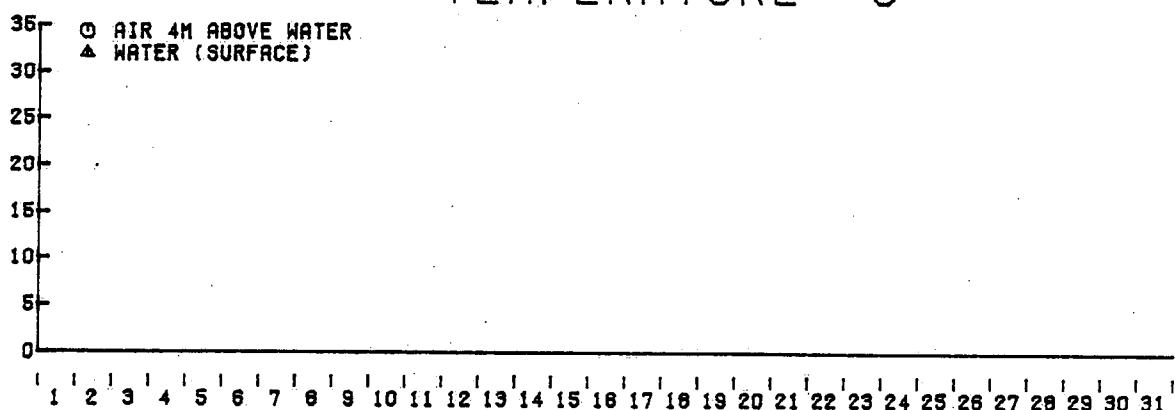
FILTERED WIND (0.0 TO 0.05 CPH)



FILTERED WIND (0.0 TO 0.2 CPH) *



TEMPERATURE °C



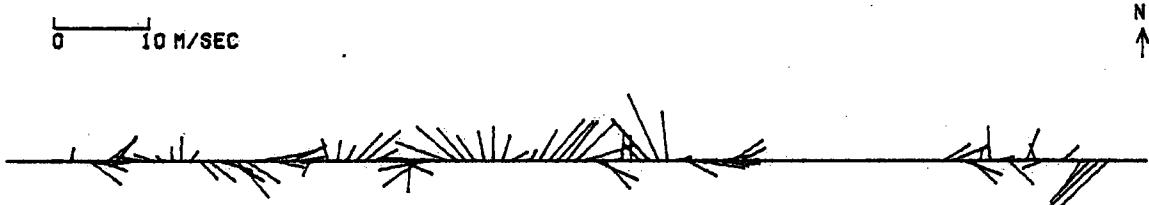
DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

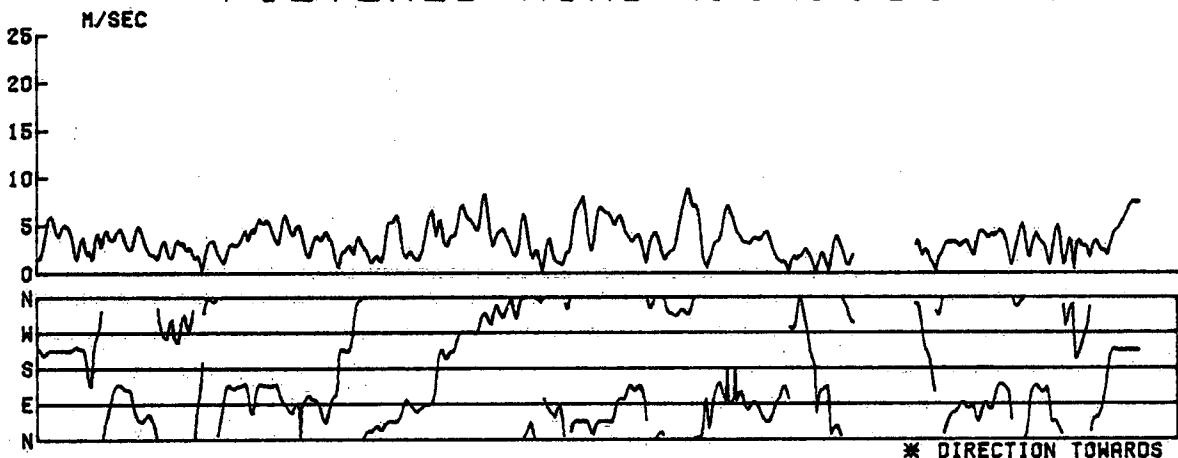
METEOROLOGICAL DATA

MOORING: SOUTH BAY DATE: JUNE 1976

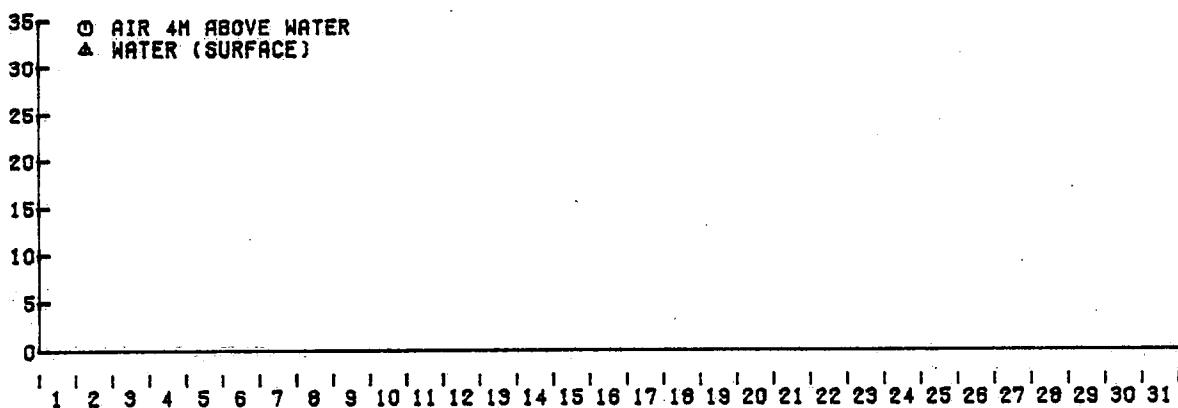
FILTERED WIND (0.0 TO 0.05 CPH)



FILTERED WIND (0.0 TO 0.2 CPH) *



TEMPERATURE °C



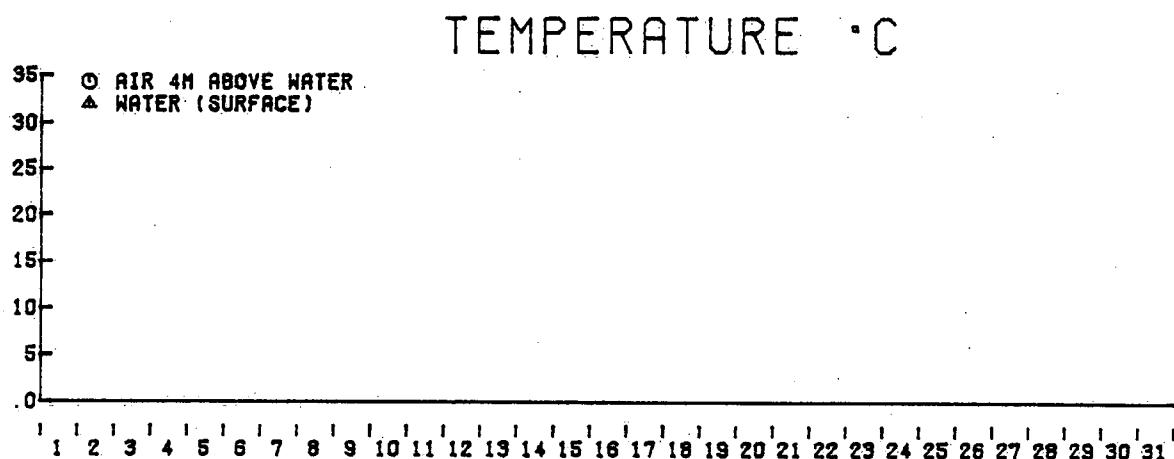
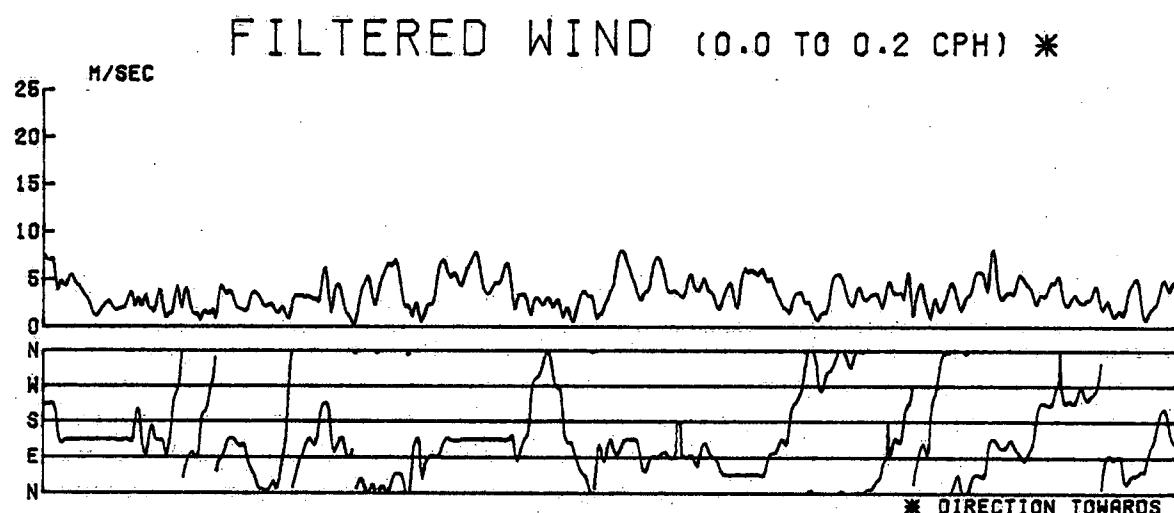
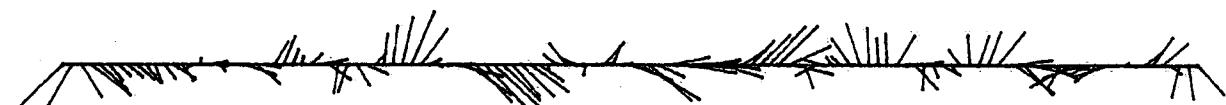
DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

METEOROLOGICAL DATA
 MOORING: SOUTH BAY DATE: JULY 1976
 FILTERED WIND (0.0 TO 0.05 CPH)

0 — 10 M/SEC

N ↑



DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

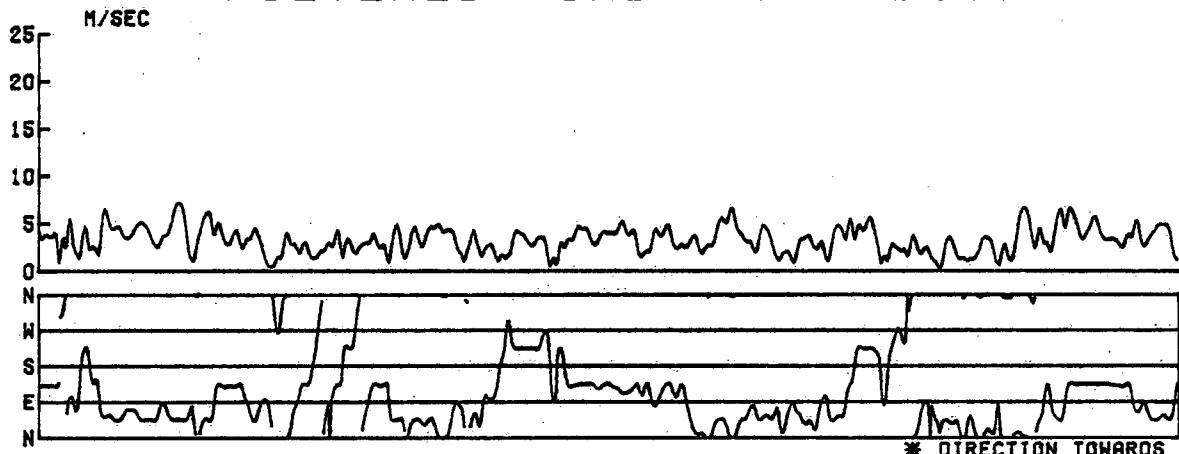
METEOROLOGICAL DATA
MOORING: SOUTH BAY DATE: AUG 1976

FILTERED WIND (0.0 TO 0.05 CPH)

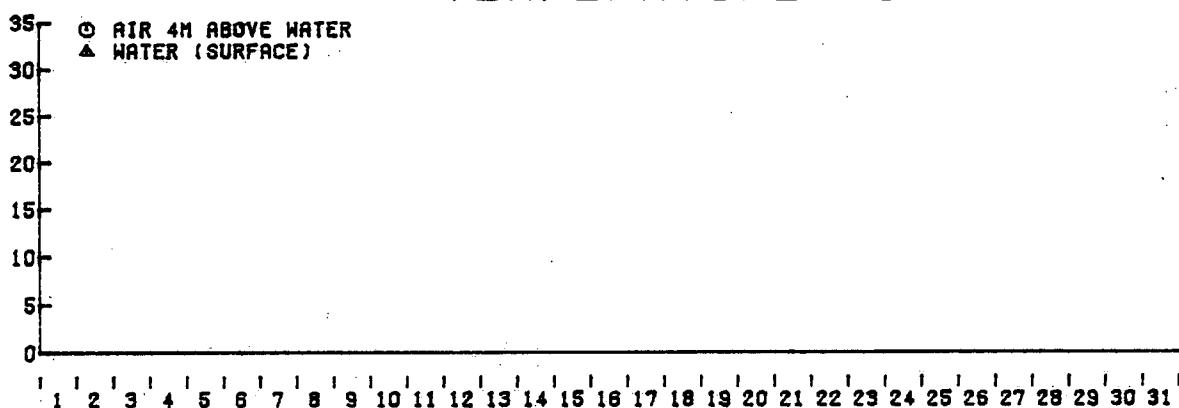
 0 10 M/SEC



FILTERED WIND (0.0 TO 0.2 CPH) *



TEMPERATURE °C

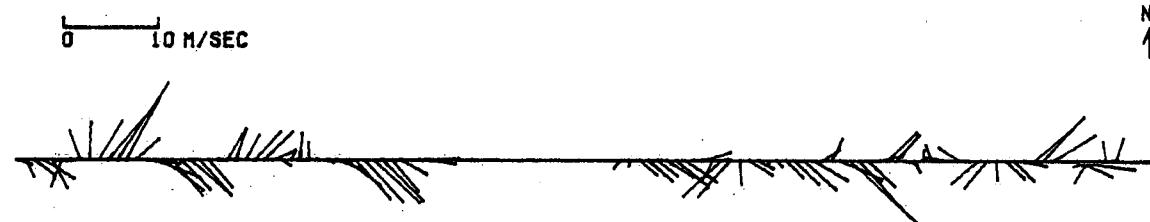


DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

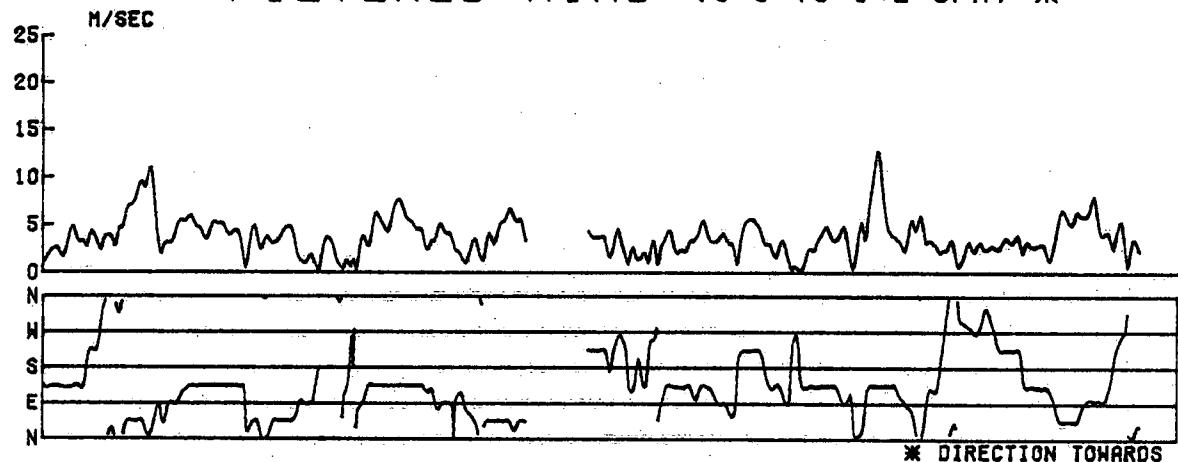
DAY	TMAX	TMIN									
1		9				17				25	
2		10				18				26	
3		11				19				27	
4		12				20				28	
5		13				21				29	
6		14				22				30	
7		15				23				31	
8		16				24					

METEOROLOGICAL DATA
MOORING: SOUTH BAY DATE: SEPT 1976

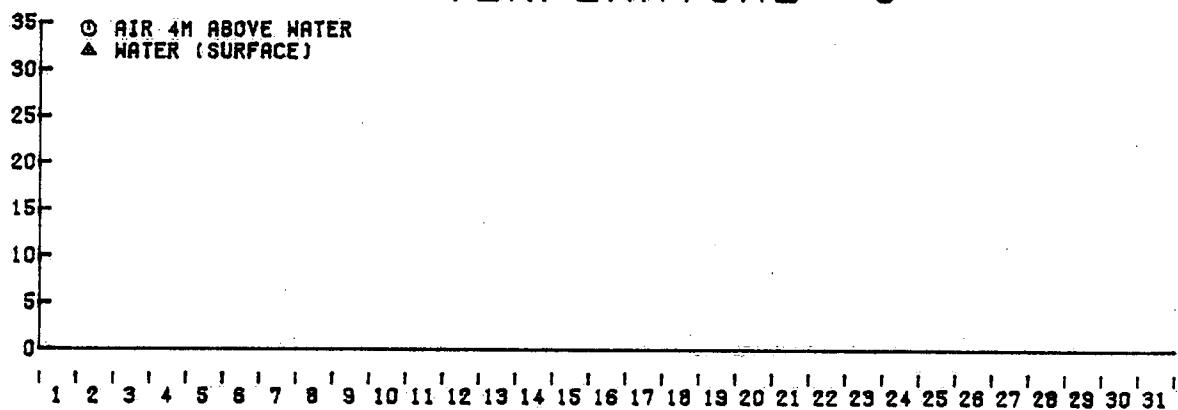
FILTERED WIND (0.0 TO 0.05 CPH)



FILTERED WIND (0.0 TO 0.2 CPH) *



TEMPERATURE °C



DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

METEOROLOGICAL DATA
MOORING: SOUTH BAY DATE: OCT 1976

FILTERED WIND (0.0 TO 0.05 CPH)

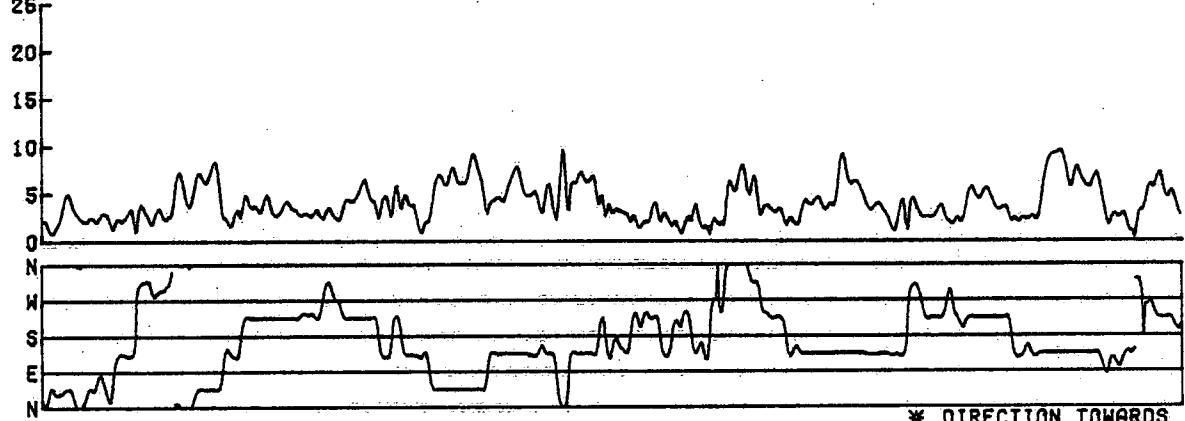
0 — 10 M/SEC

N ↑



FILTERED WIND (0.0 TO 0.2 CPH) *

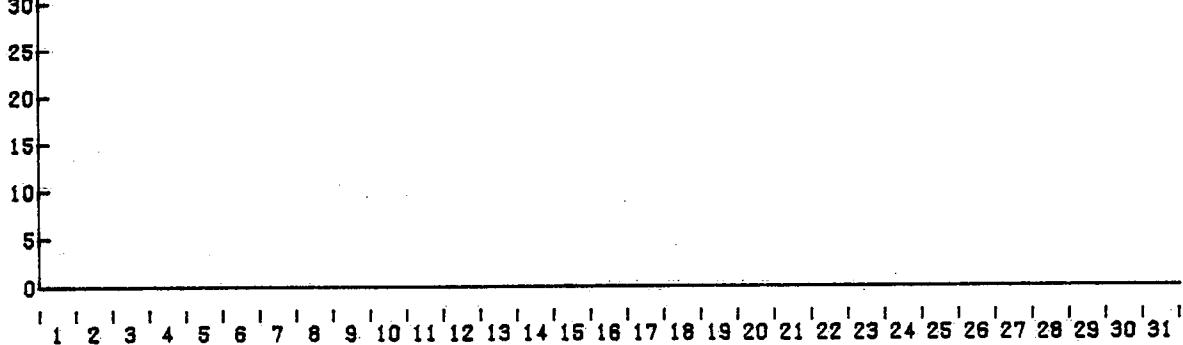
M/SEC



* DIRECTION TOWARDS

TEMPERATURE °C

① AIR 4M ABOVE WATER
△ WATER (SURFACE)



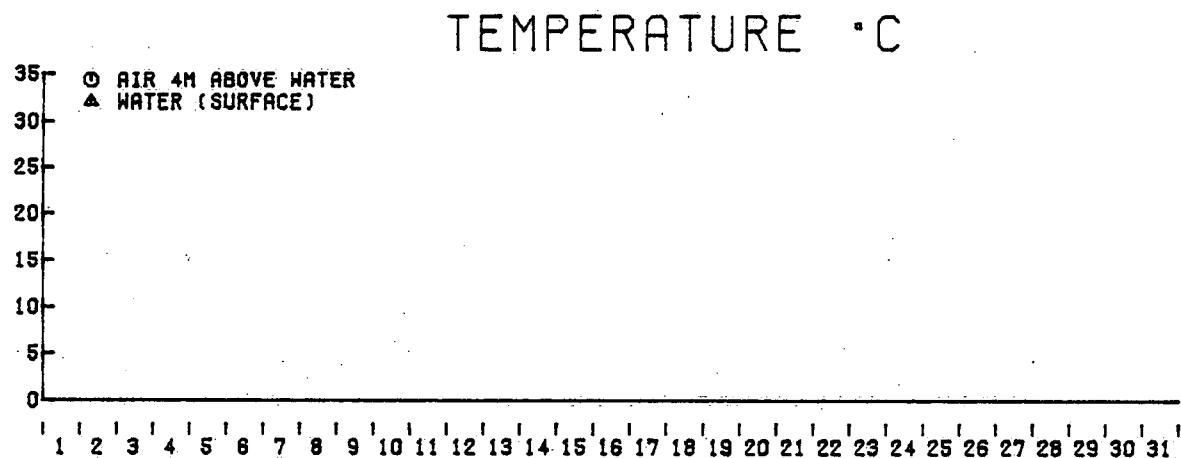
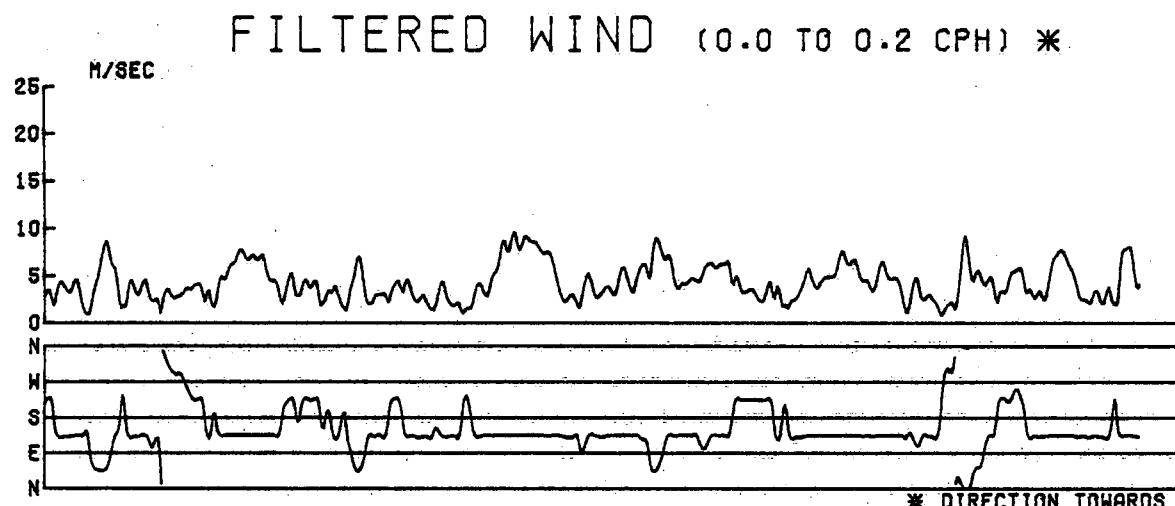
DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

METEOROLOGICAL DATA
 MOORING: SOUTH BAY DATE: NOV 1976
 FILTERED WIND (0.0 TO 0.05 CPH)

0 10 M/SEC

N ↑



DAILY MAXIMUM AND MINIMUM AIR TEMPERATURE

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

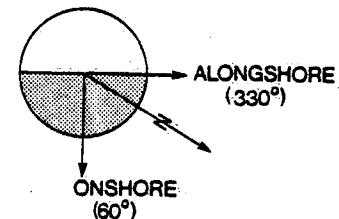
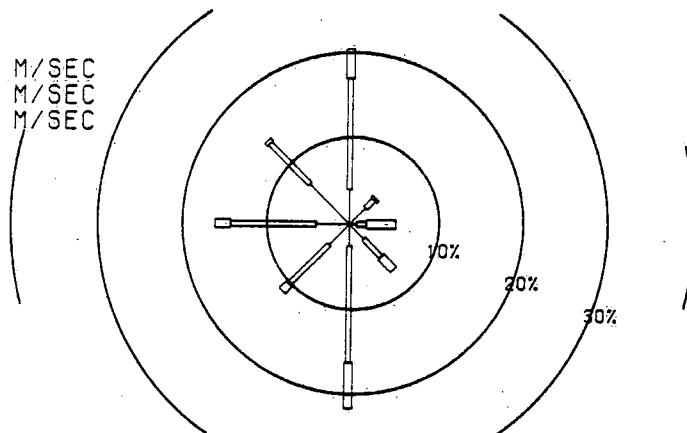
APPENDIX C: 'Rose' and Temperature-Current Time-Series

MOORING: 1

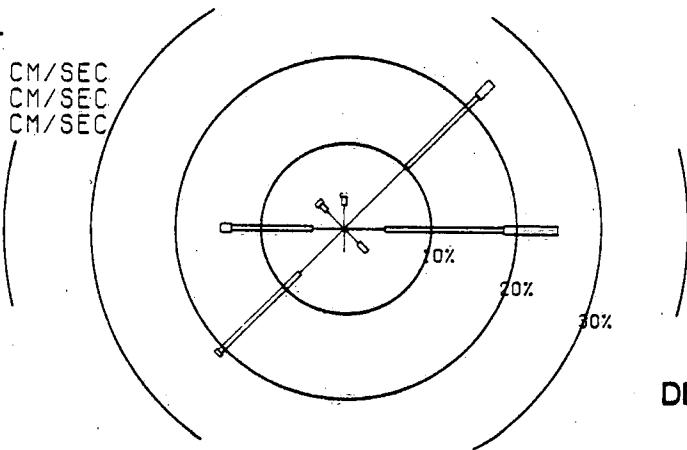
DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

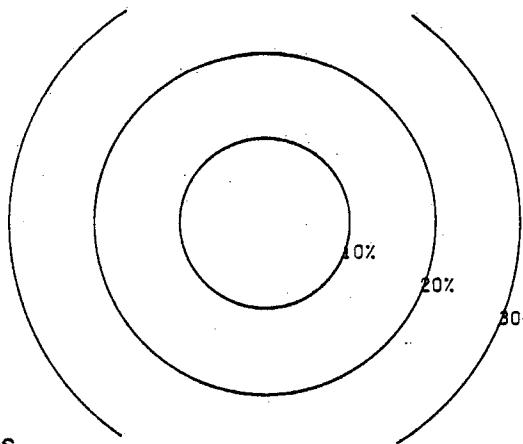


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



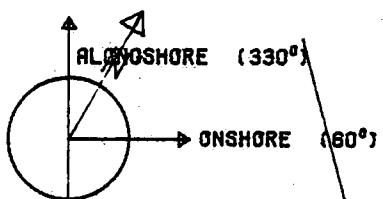
DEPTH: 15 m

*DIRECTION TOWARDS



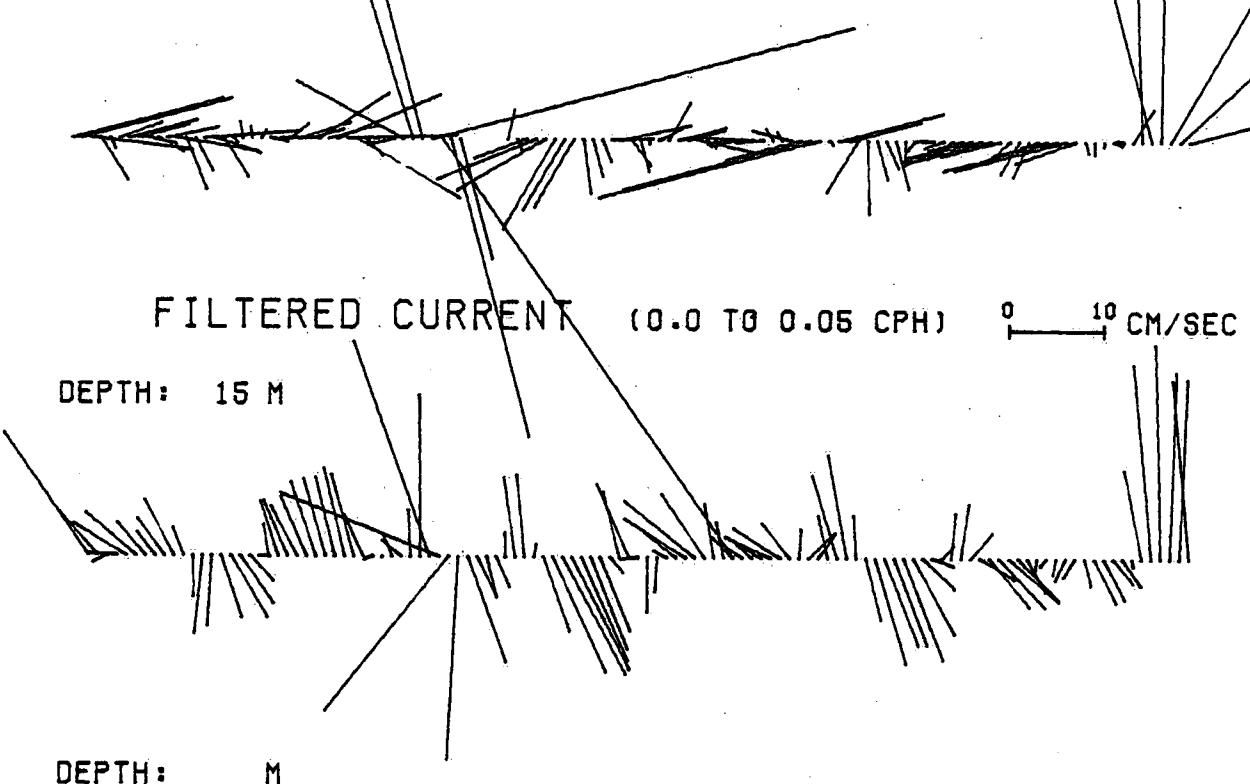
DEPTH: m

MOORING: 75-5C-01 DATE: NOV 1975



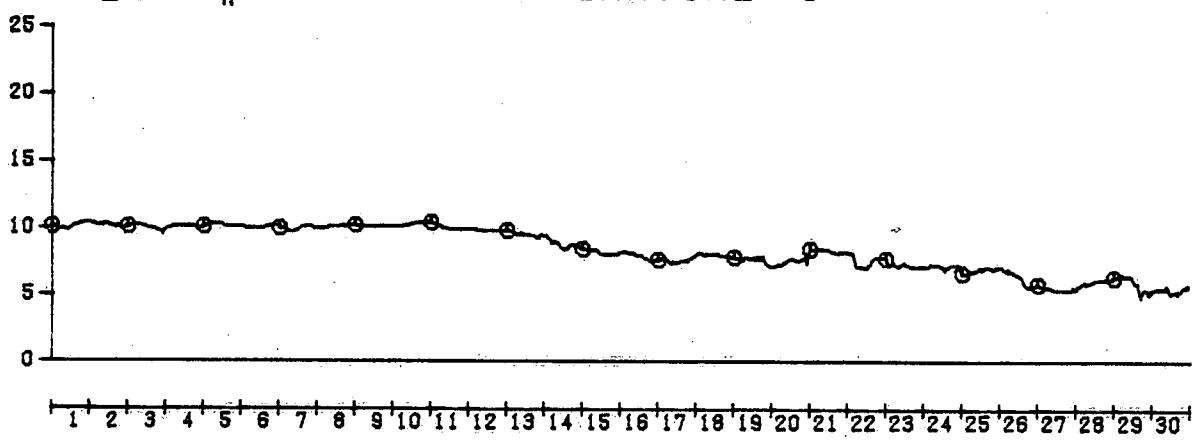
WINDSPEED²

0 40 M²/SEC²



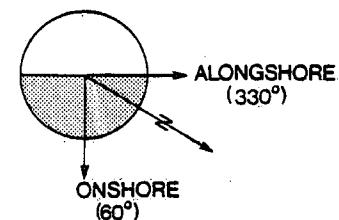
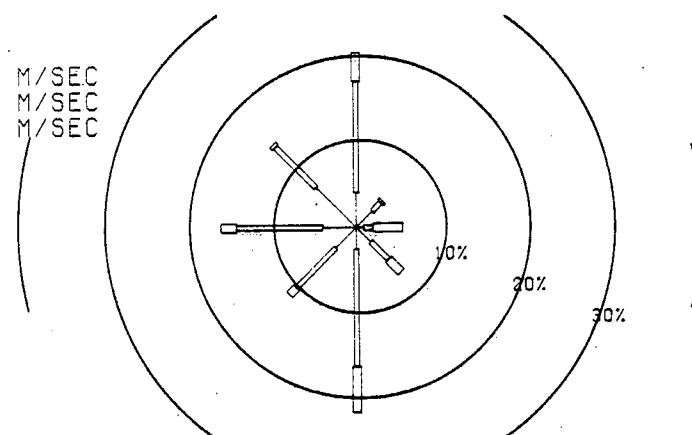
○ - 15 M
△ - M

TEMPERATURE °C

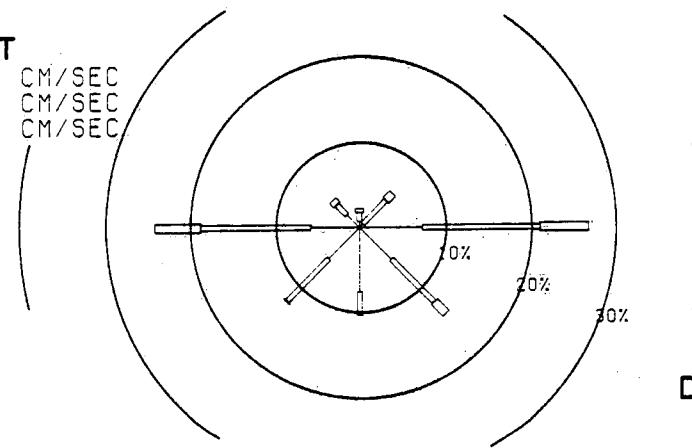


MOORING: 2 DATE: NOV 1975
MONTHLY SUMMARY: WIND AND CURRENT*

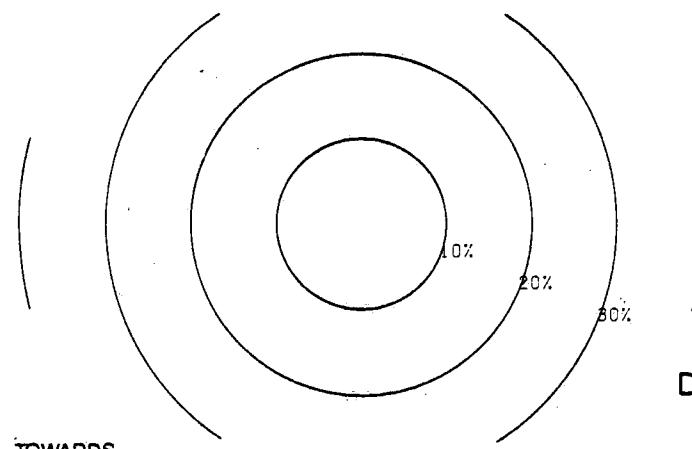
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



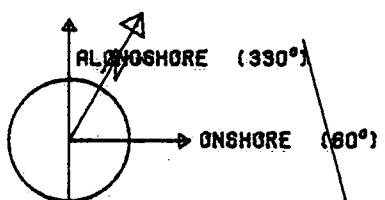
DEPTH: 15 m



DEPTH: m

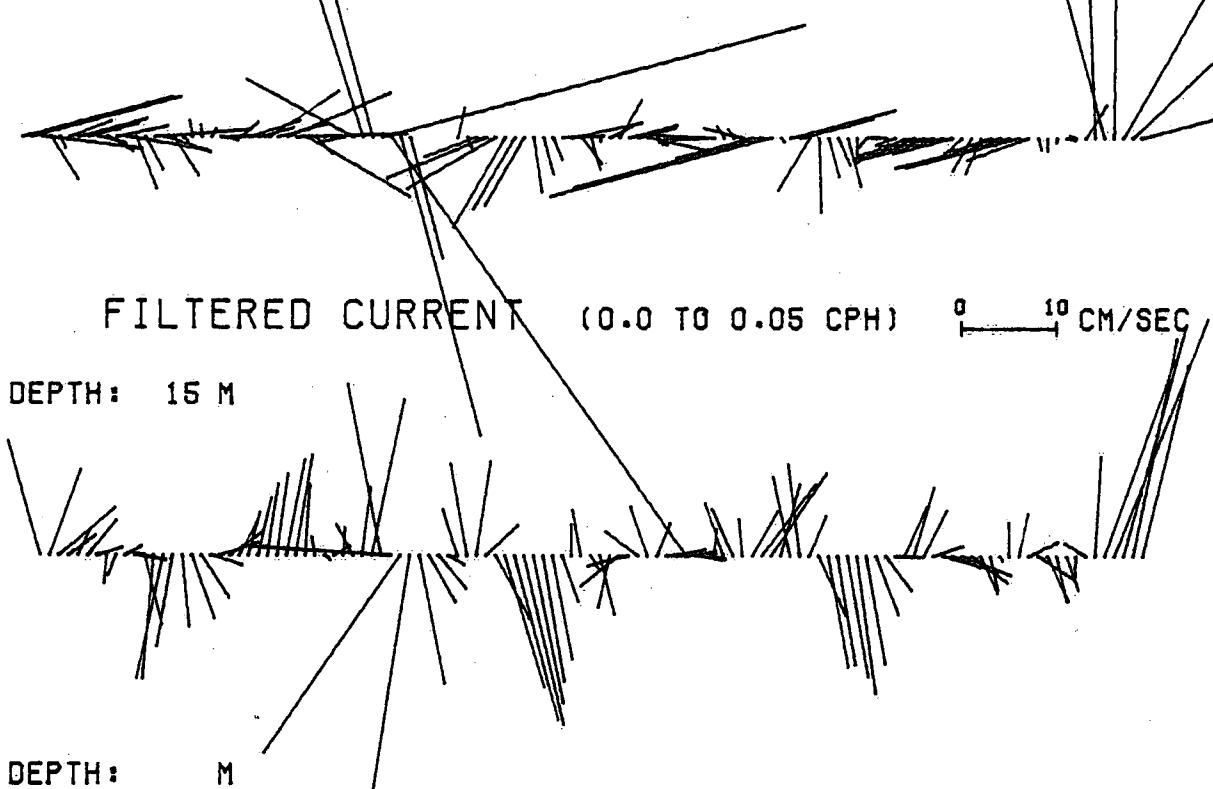
*DIRECTION TOWARDS

MOORING: 75-5C-02 DATE: NOV 1975



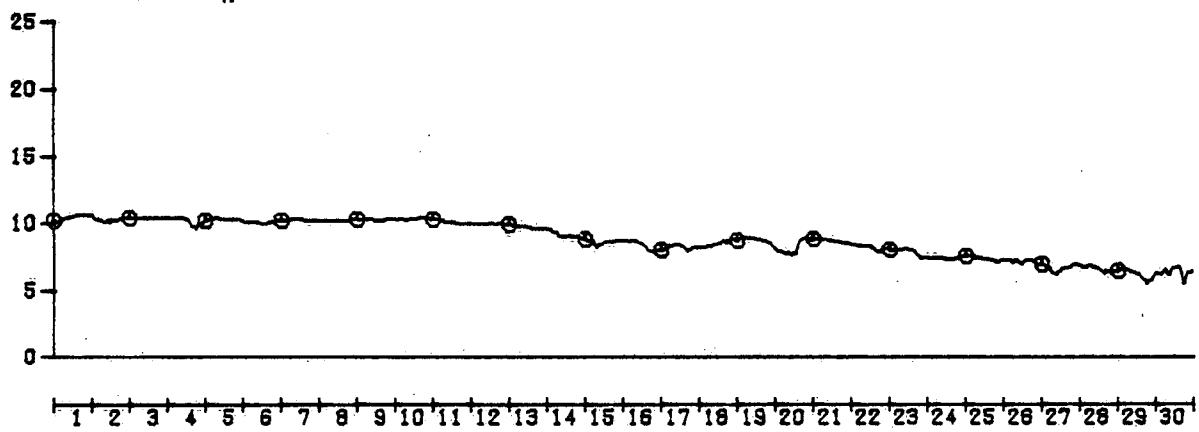
WINDSPEED²

0 40 M²/SEC²



○ - 15 M
△ - M

TEMPERATURE °C

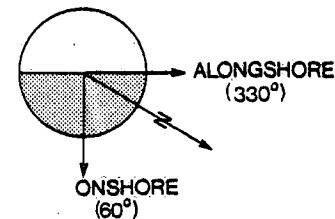
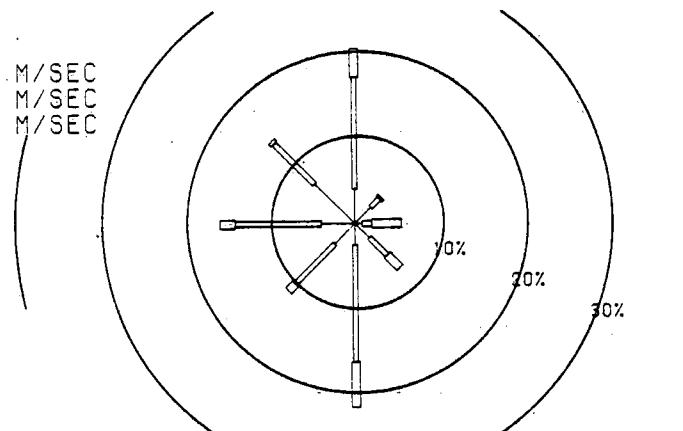


MOORING: 3

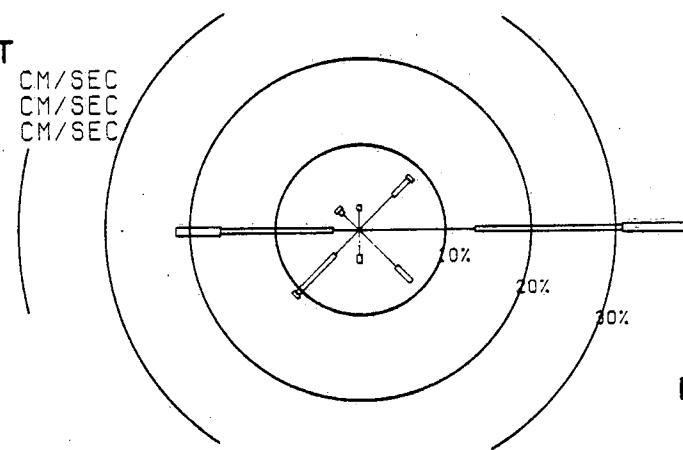
DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

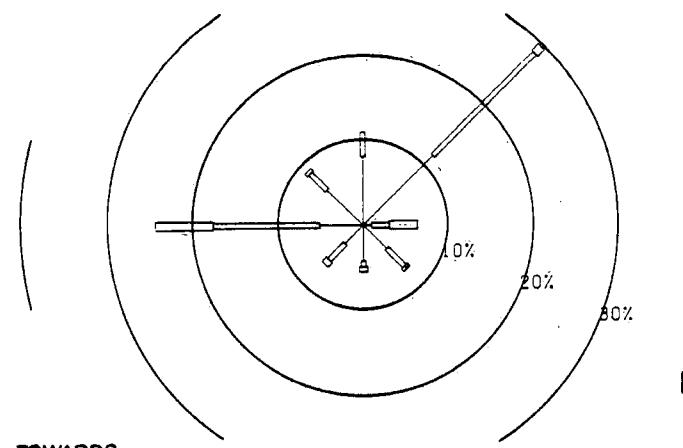
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



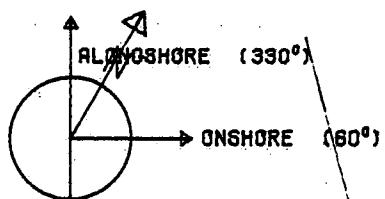
DEPTH: 15 m



DEPTH: 26 m

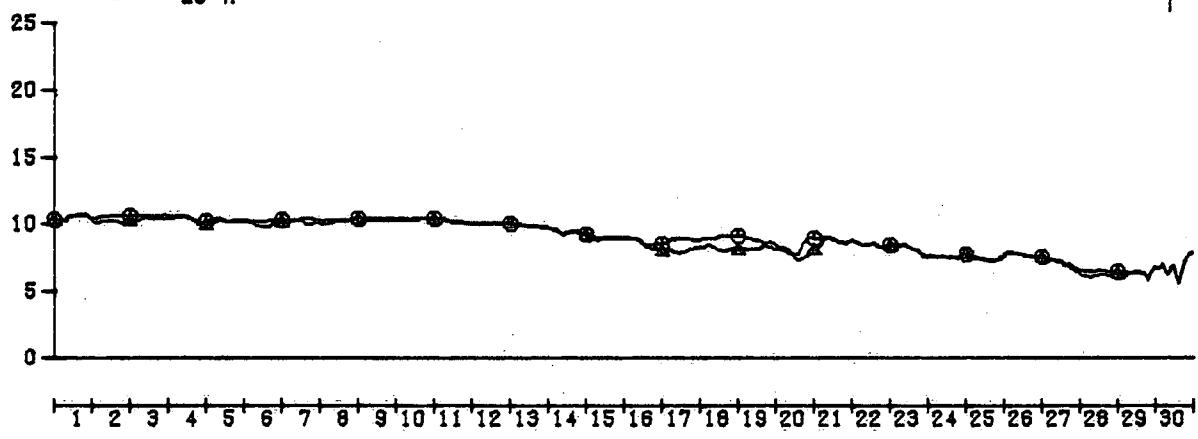
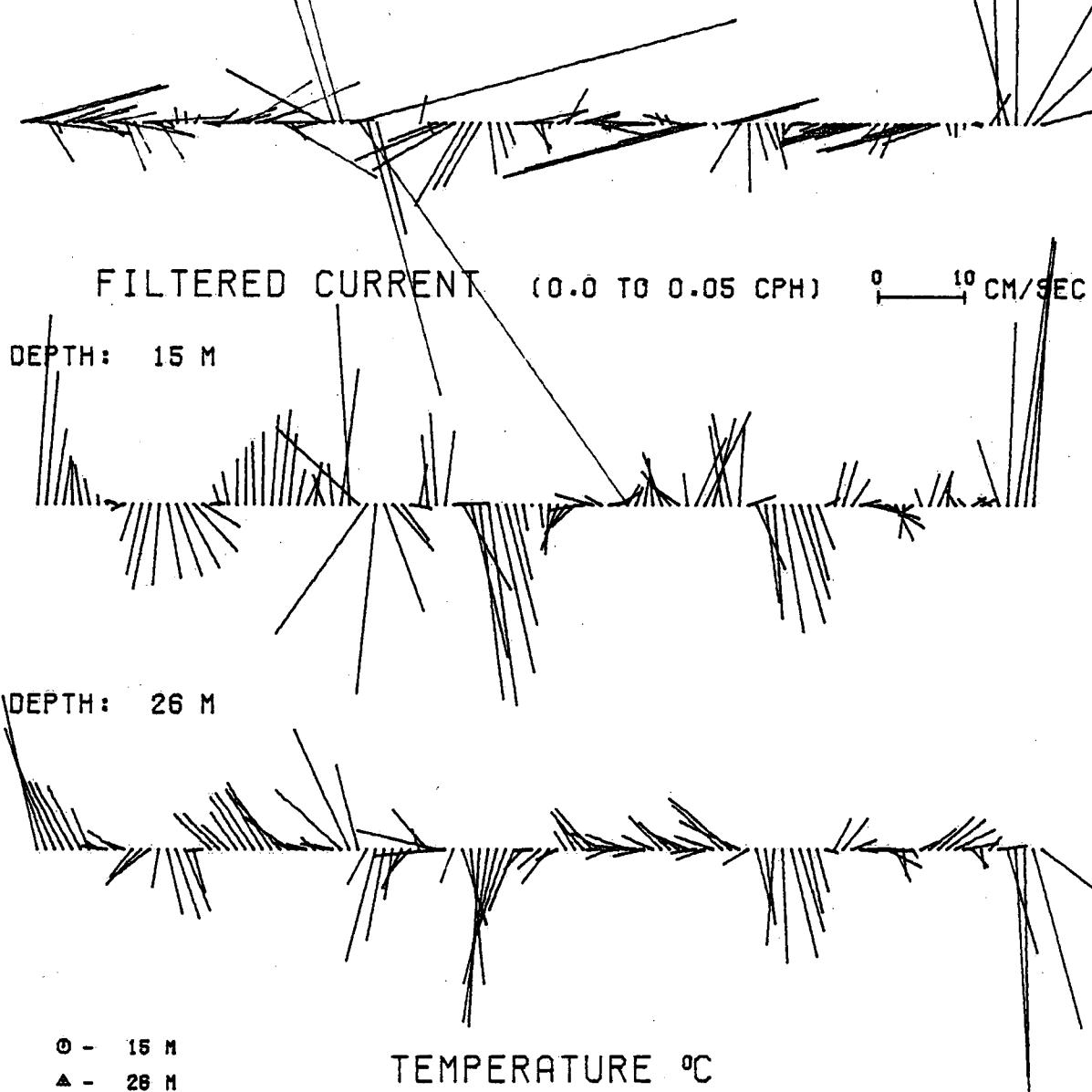
*DIRECTION TOWARDS

MOORING: 75-5C-03 DATE: NOV 1975



WINDSPEED²

0 40 M²/SEC²

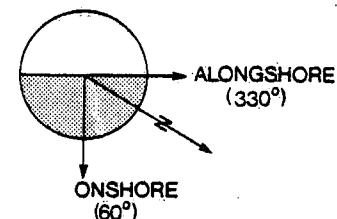
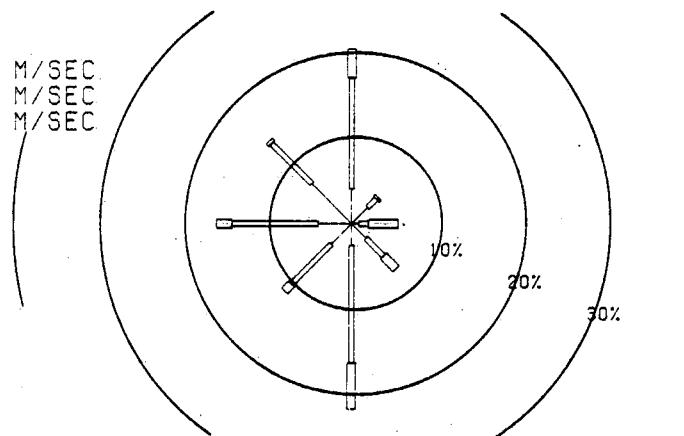


MOORING: 4

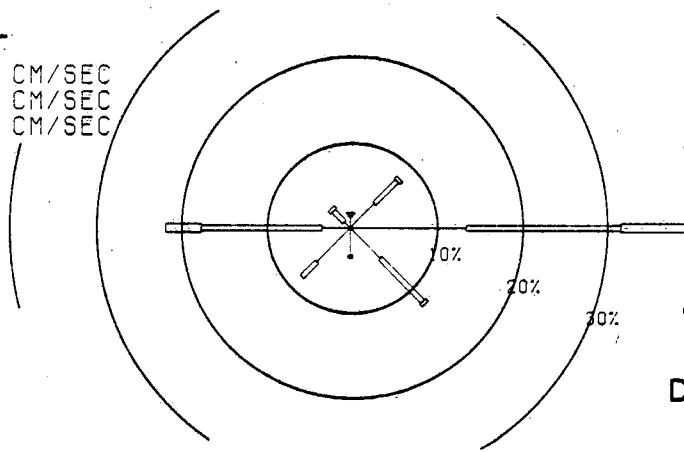
DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

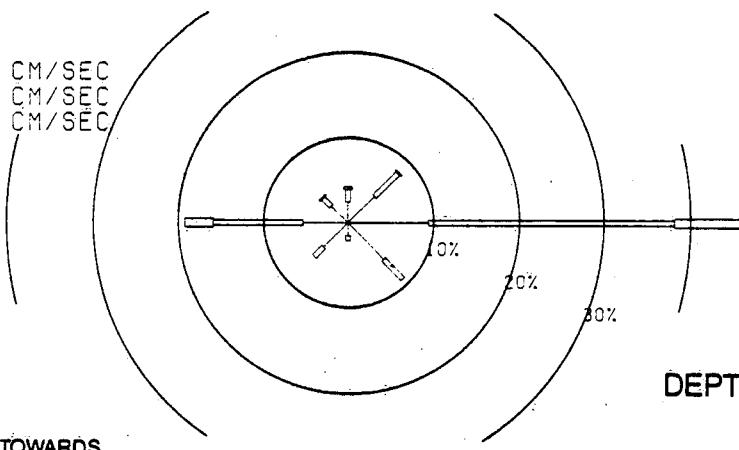


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

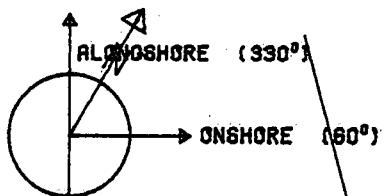
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 31 m

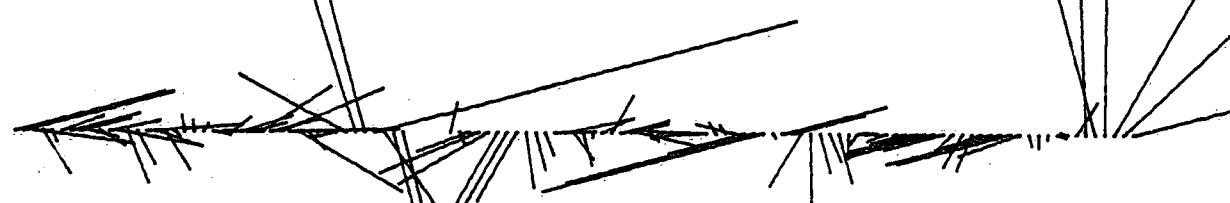
*DIRECTION TOWARDS

MOORING: 75-5C-04 DATE: NOV 1975



WINDSPEED²

0 40 M²/SEC²

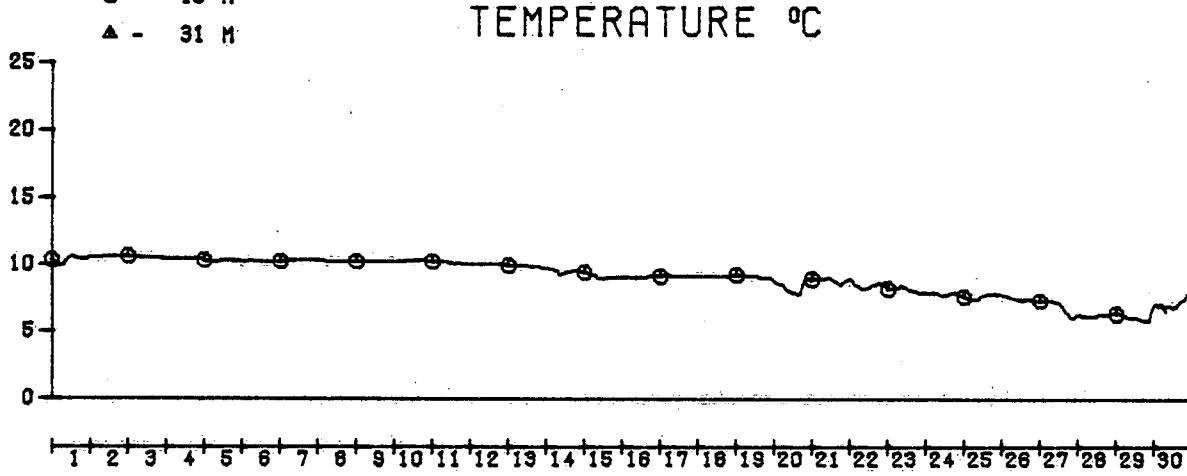


FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 15 M

DEPTH: 31 M

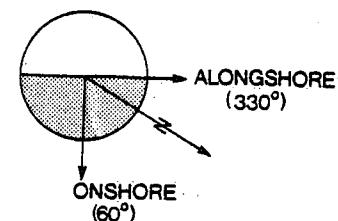
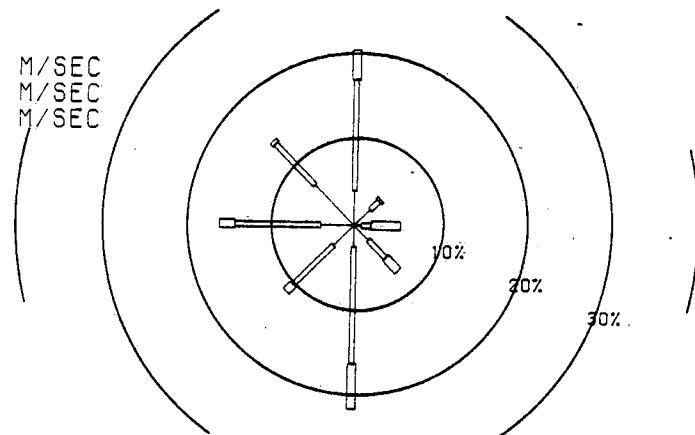


MOORING: 5

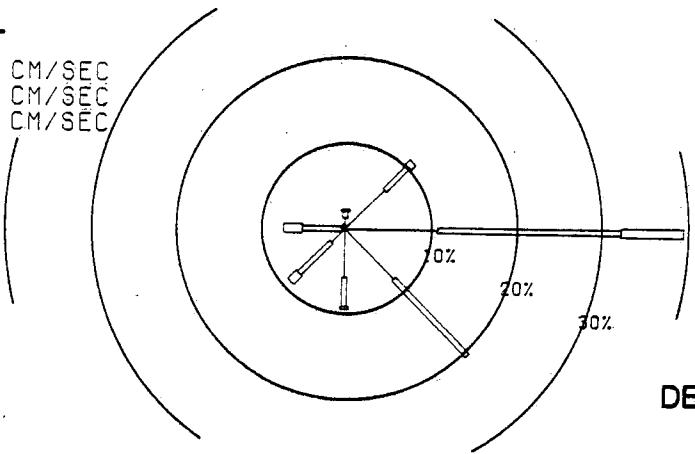
DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

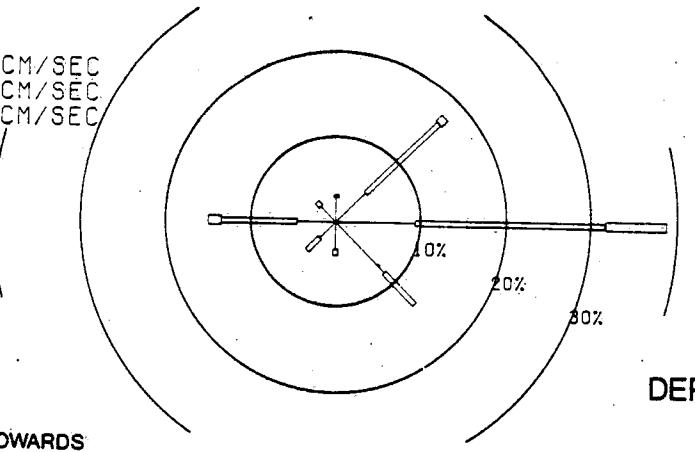


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

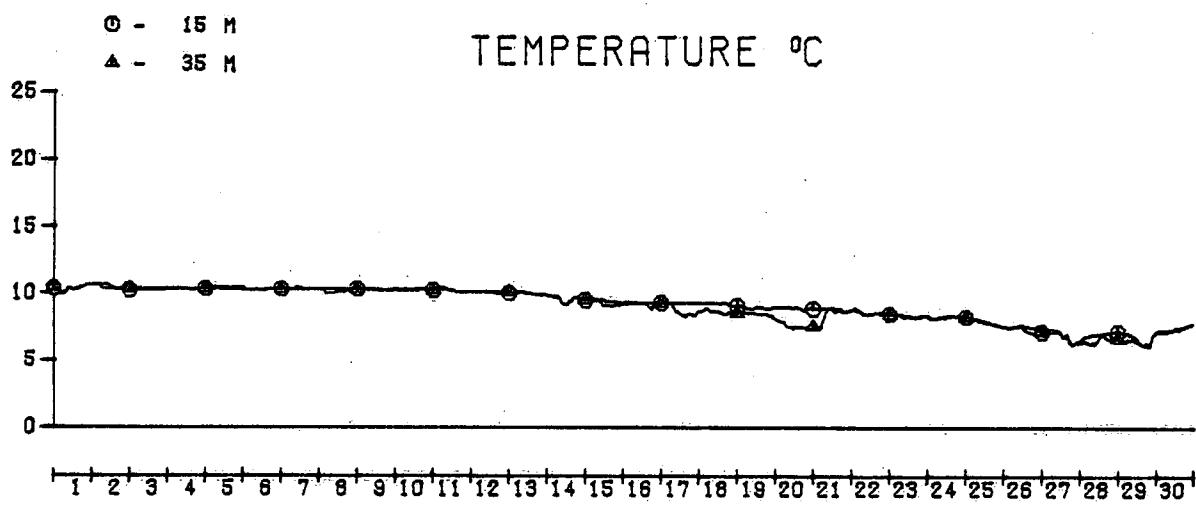
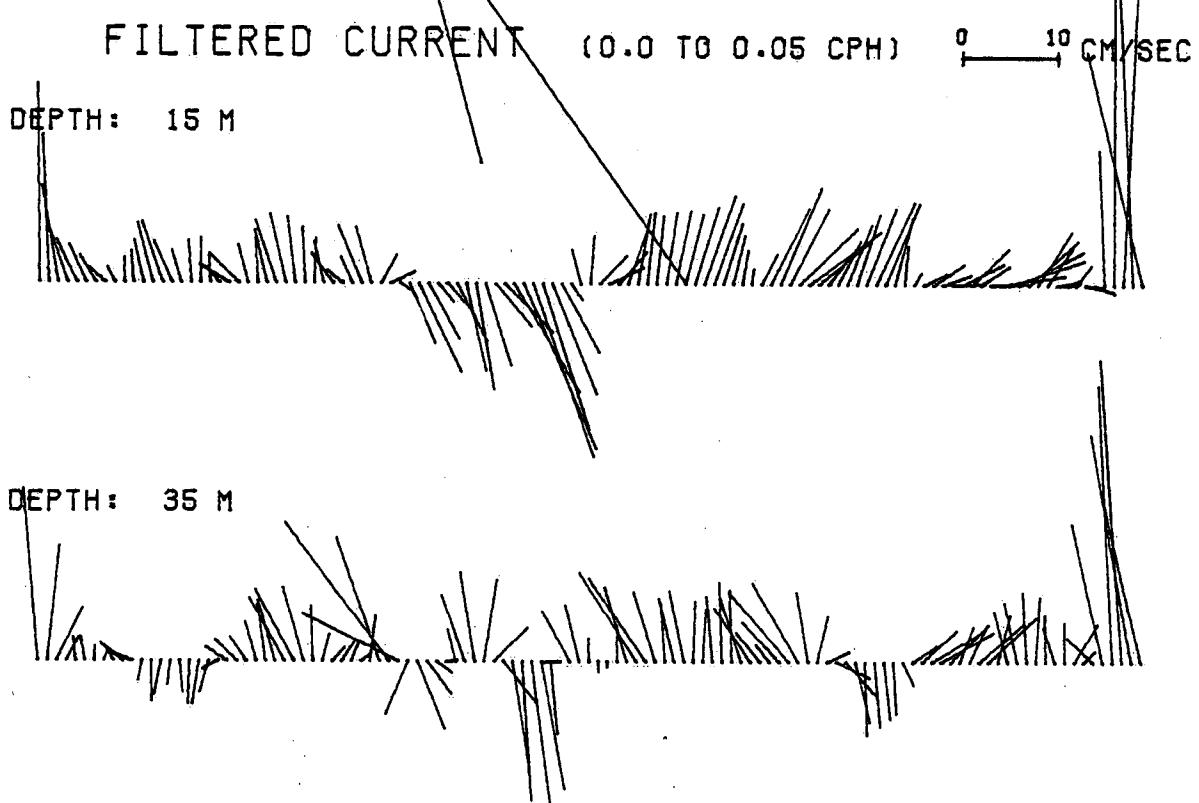
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



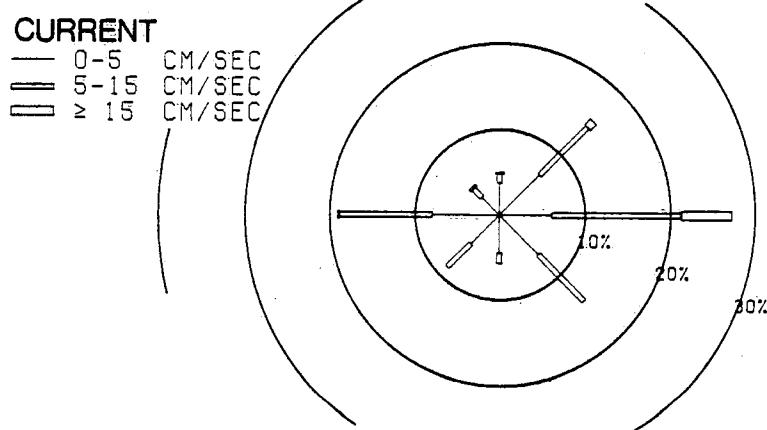
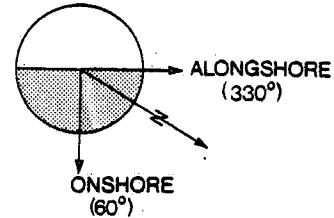
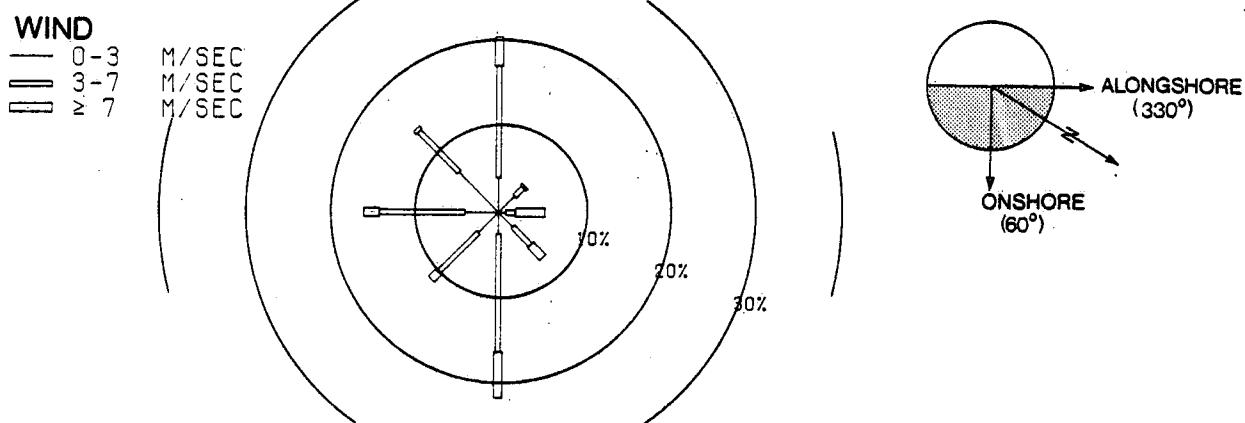
DEPTH: 35 m

*DIRECTION TOWARDS

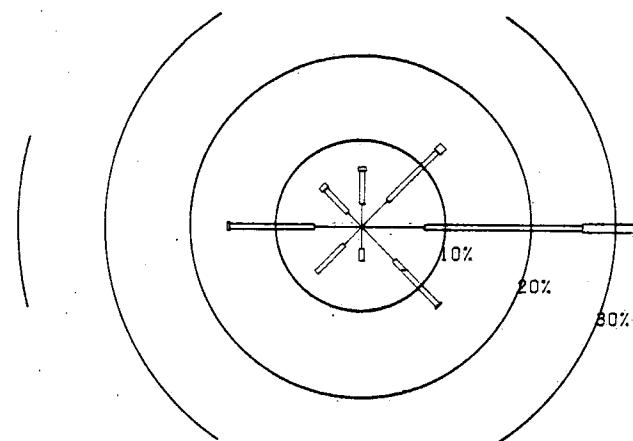
MOORING: 75-5C-05 DATE: NOV 1975



MOORING: 6 DATE: NOV 1975
MONTHLY SUMMARY: WIND AND CURRENT*



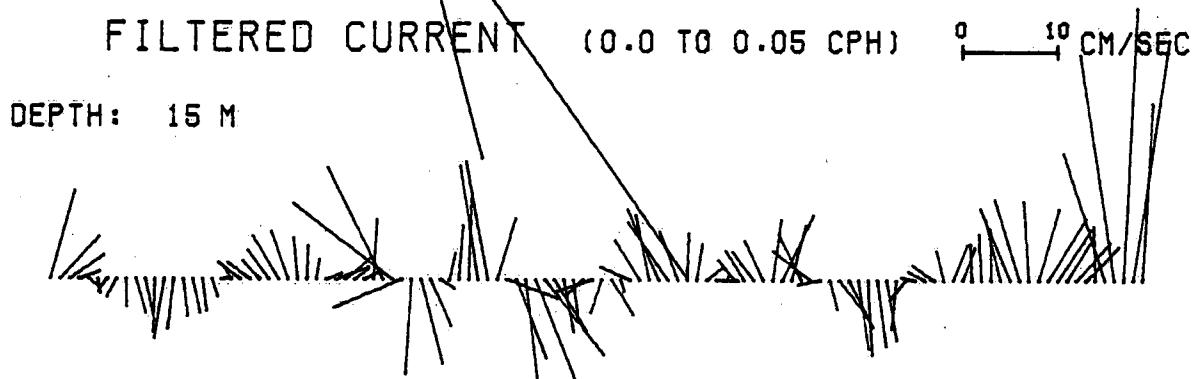
DEPTH: 15 m



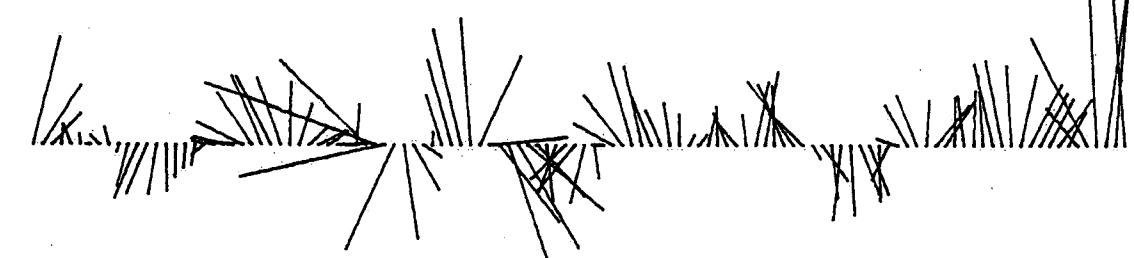
DEPTH: 25 m

*DIRECTION TOWARDS

MOORING: 75-5C-06 DATE: NOV 1975



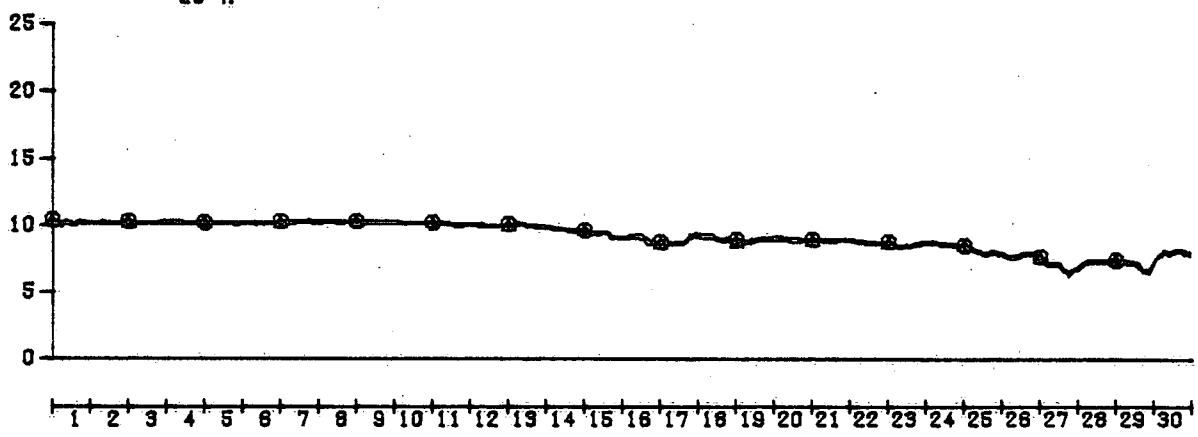
DEPTH: 15 M



DEPTH: 25 M

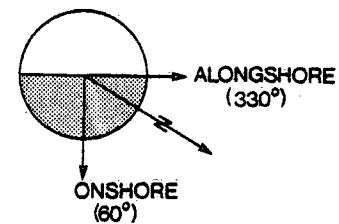
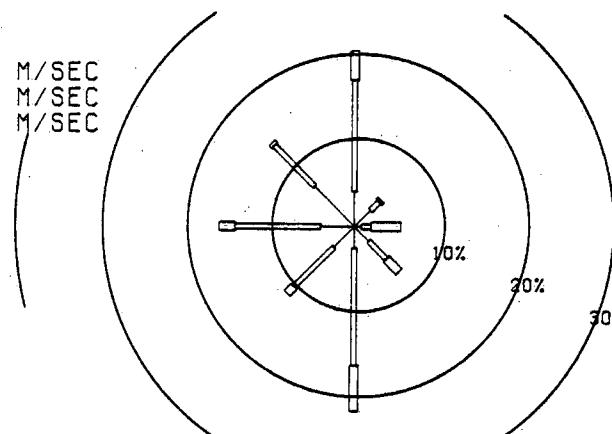
○ - 15 M
△ - 25 M

TEMPERATURE °C

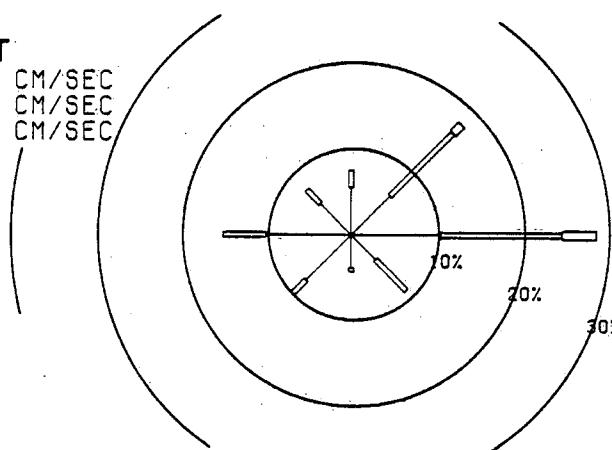


MOORING: 6 DATE: NOV 1975
MONTHLY SUMMARY: WIND AND CURRENT*

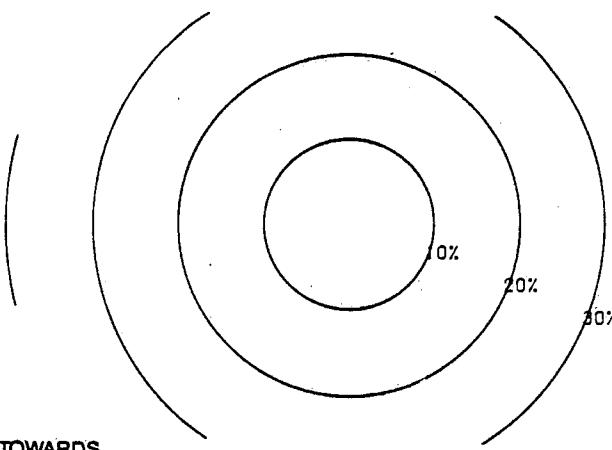
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



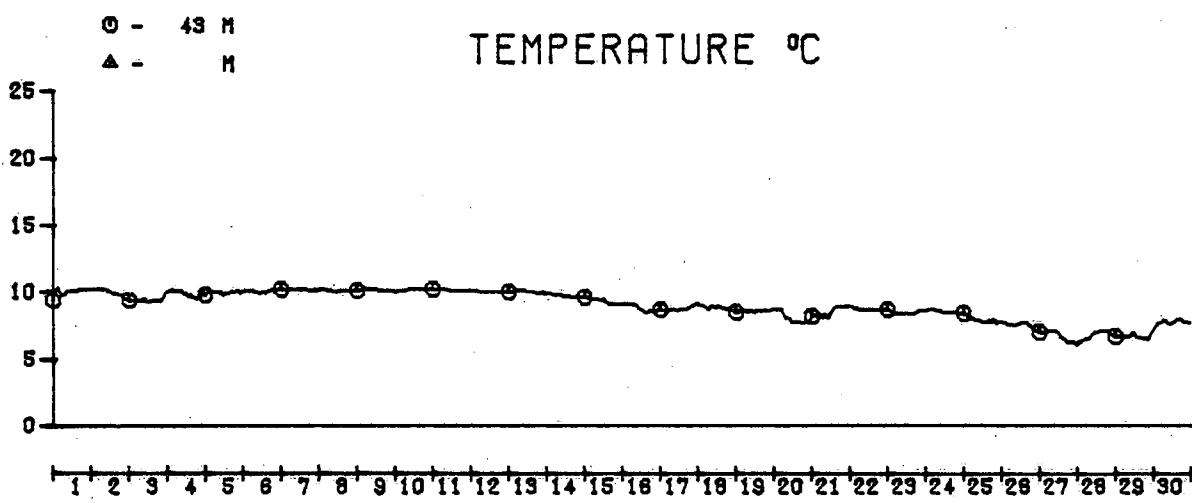
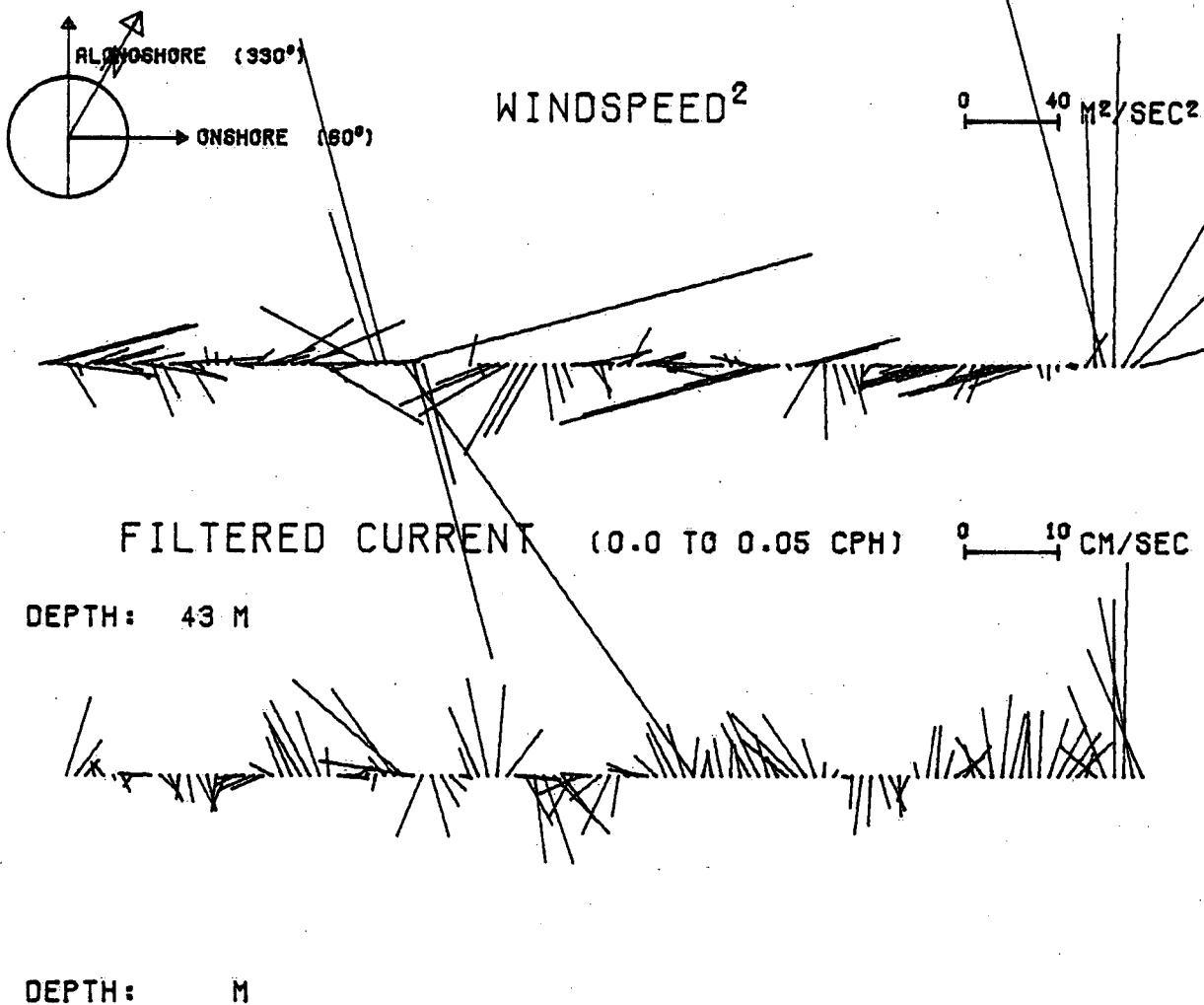
DEPTH: 43 m



DEPTH: m

*DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: NOV 1975

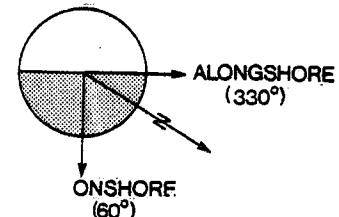
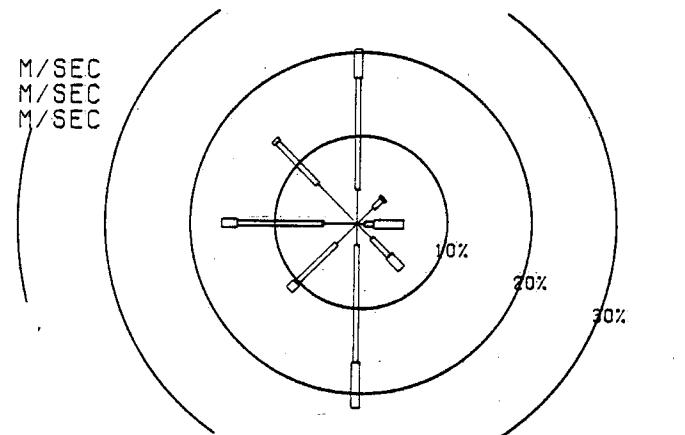


MOORING: 7

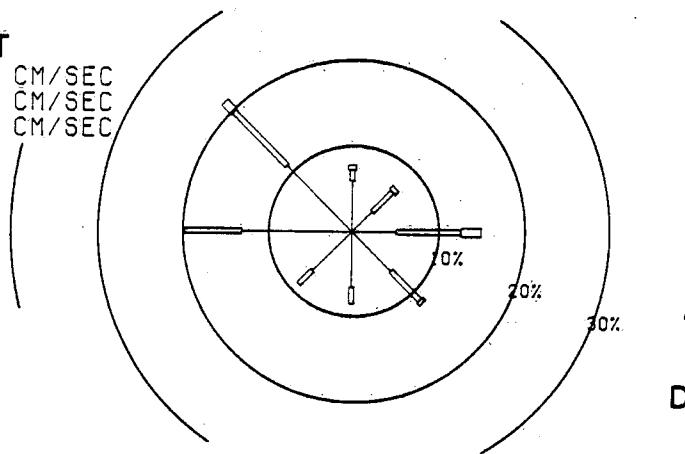
DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

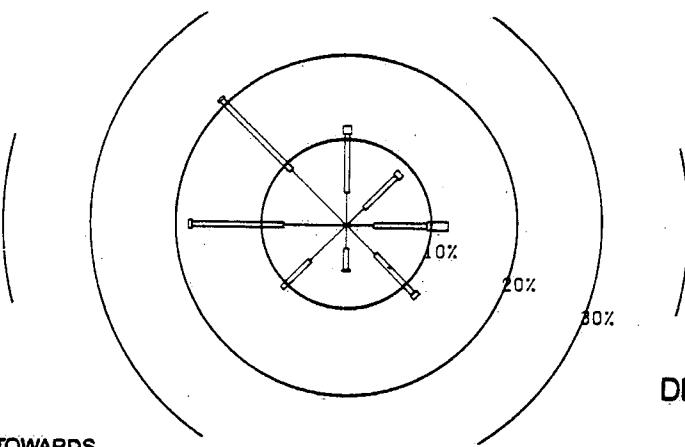


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

*DIRECTION TOWARDS



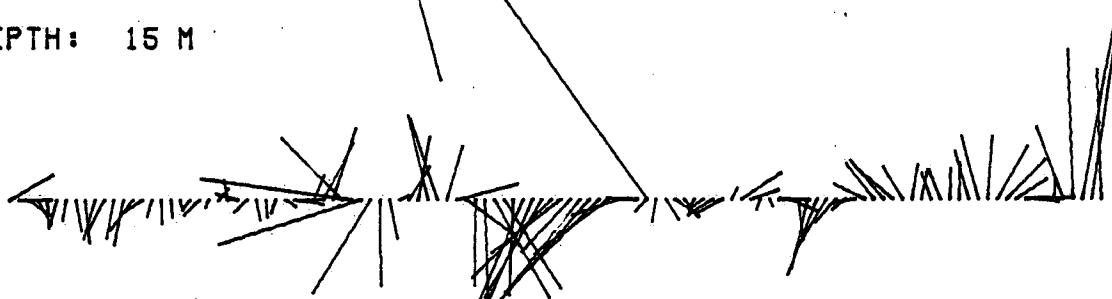
DEPTH: 25 m

MOORING: 75-5C-07 DATE: NOV 1975

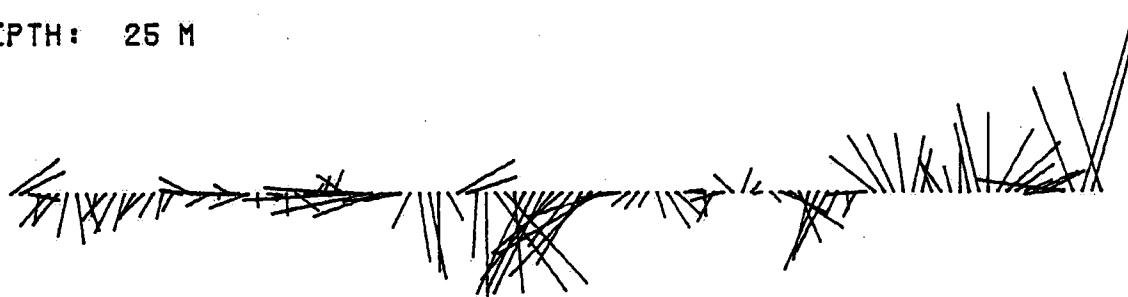


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M

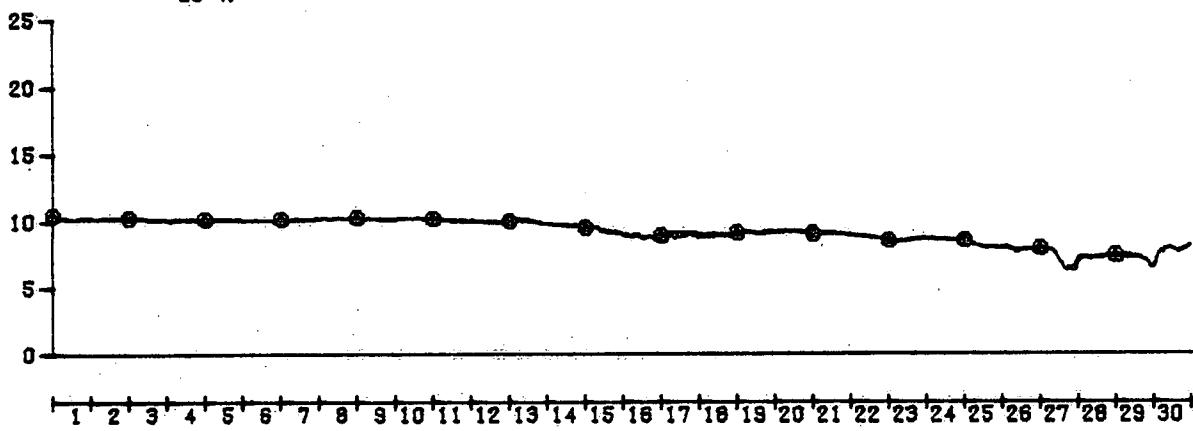


DEPTH: 25 M



○ - 15 M
△ - 25 M

TEMPERATURE °C

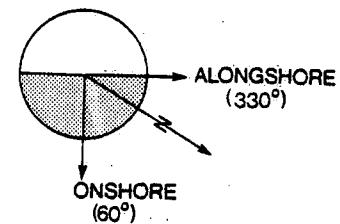
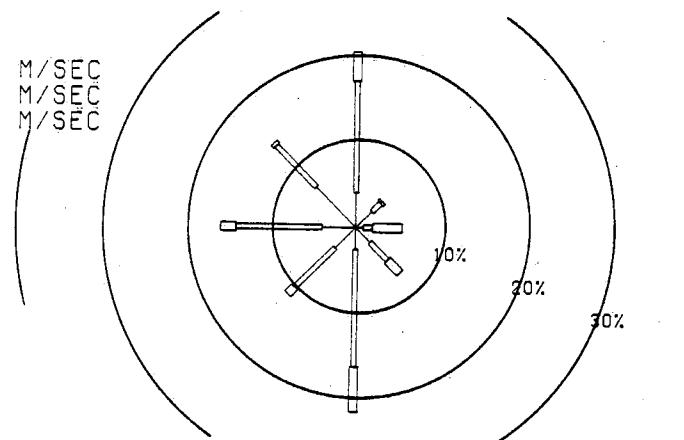


MOORING: 7

DATE: NOV 1975

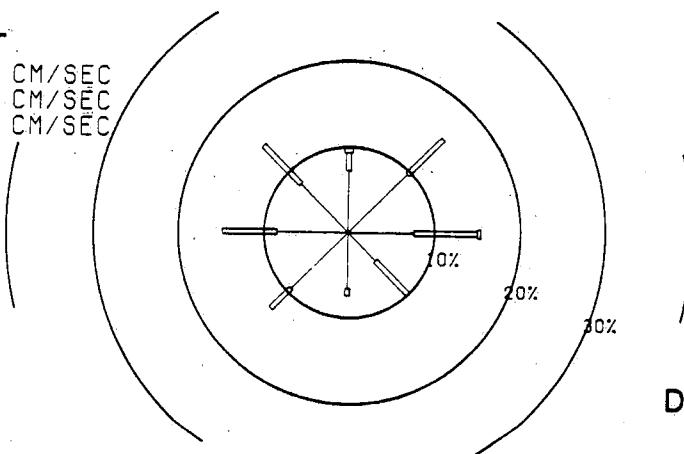
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

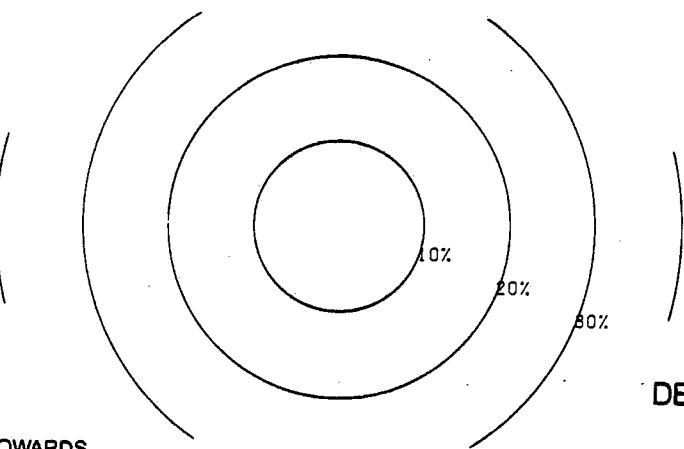


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



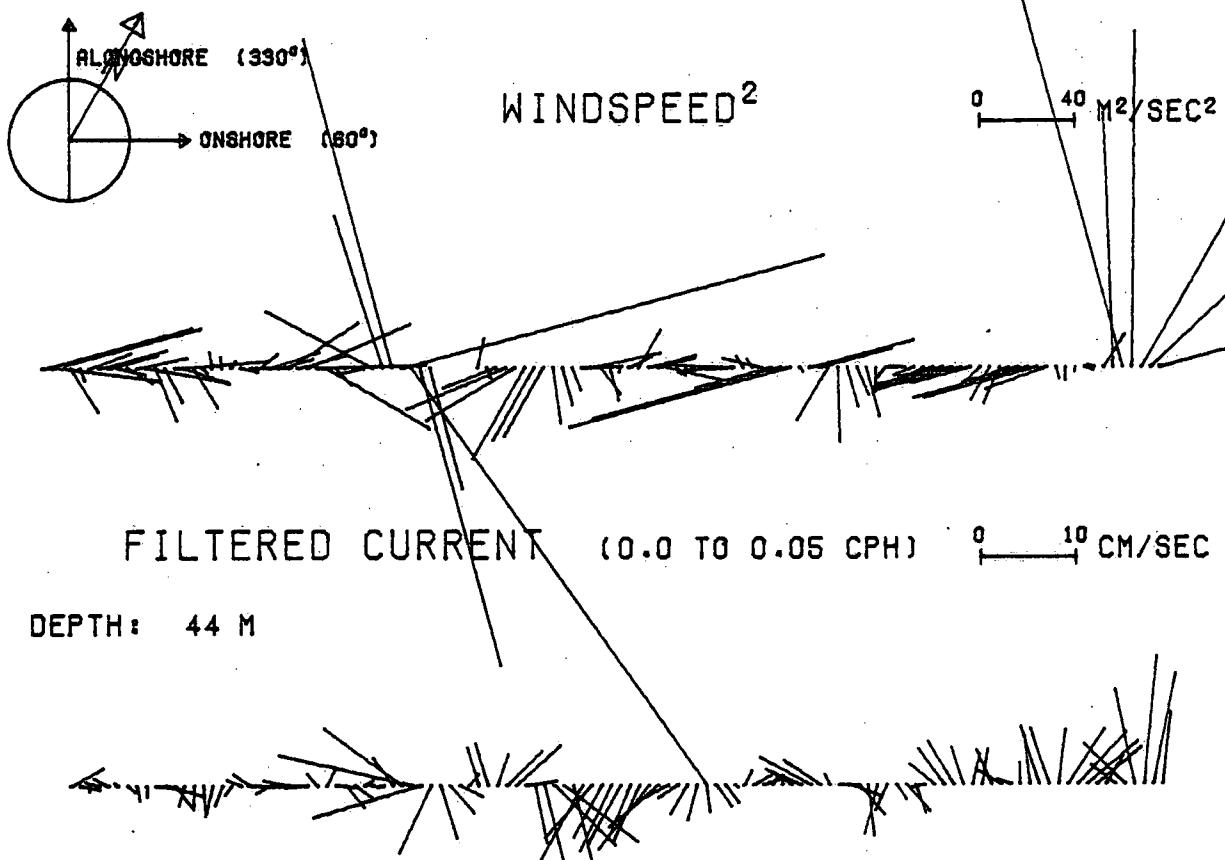
DEPTH: 44 m



DEPTH: m

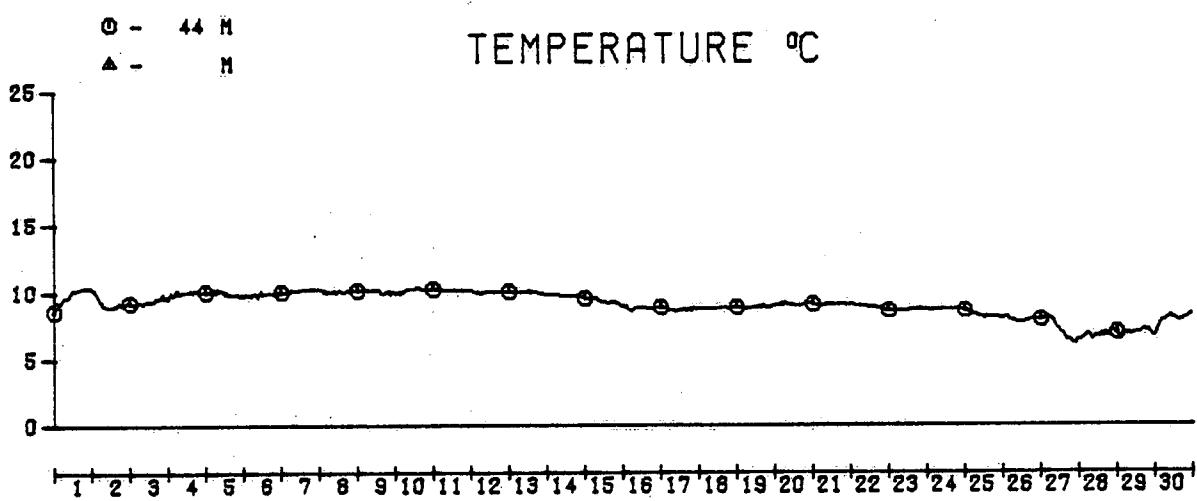
*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: NOV 1975



DEPTH: 44 M

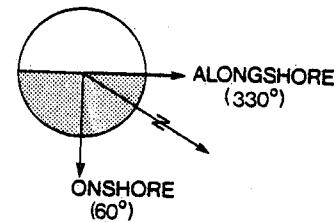
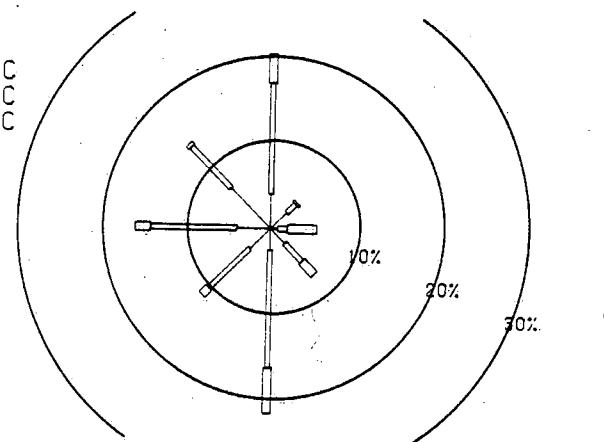
DEPTH: M



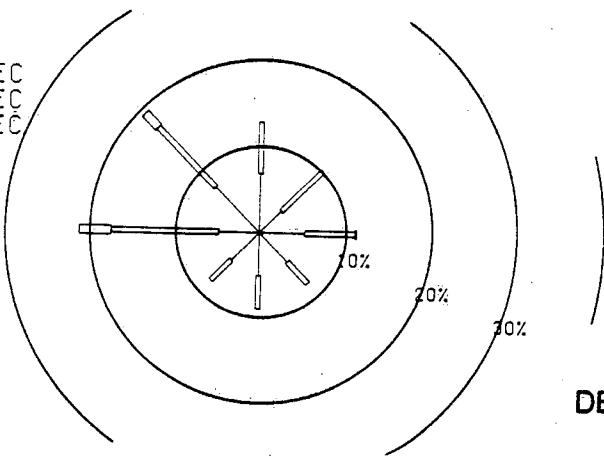
MOORING: 8 DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

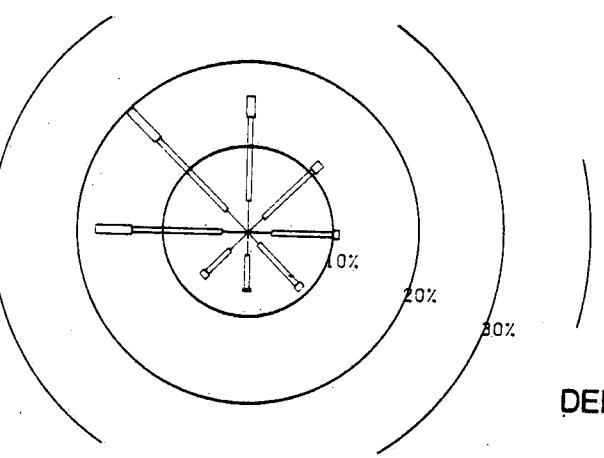


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



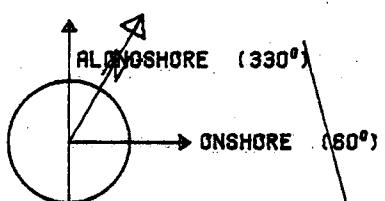
DEPTH: 15 m

*DIRECTION TOWARDS



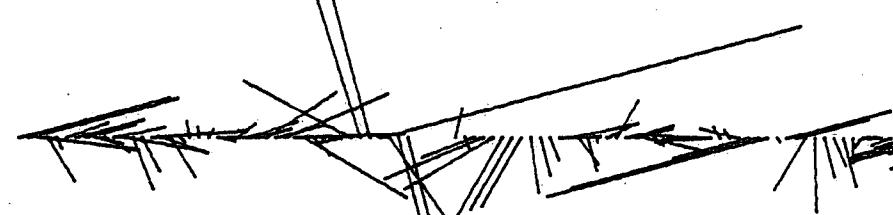
DEPTH: 25 m

MOORING: 75-5C-08 DATE: NOV 1975



WINDSPEED²

0 40 M²/SEC²



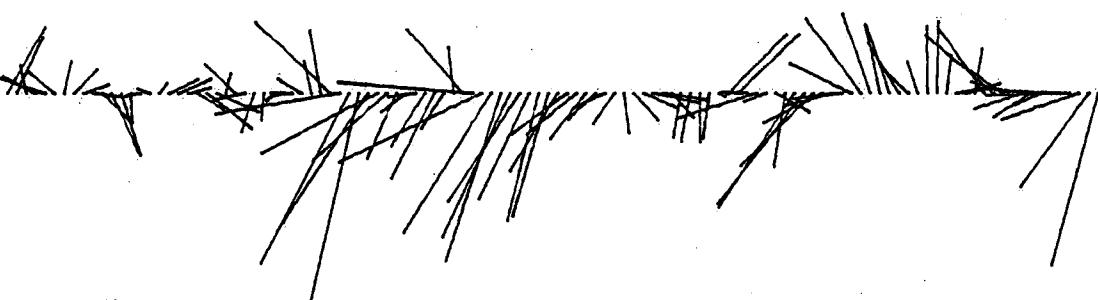
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 15 M



DEPTH: 25 M



○ - 15 M
△ - 25 M

TEMPERATURE °C

25
20
15
10
5
0

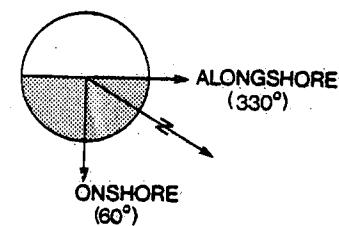
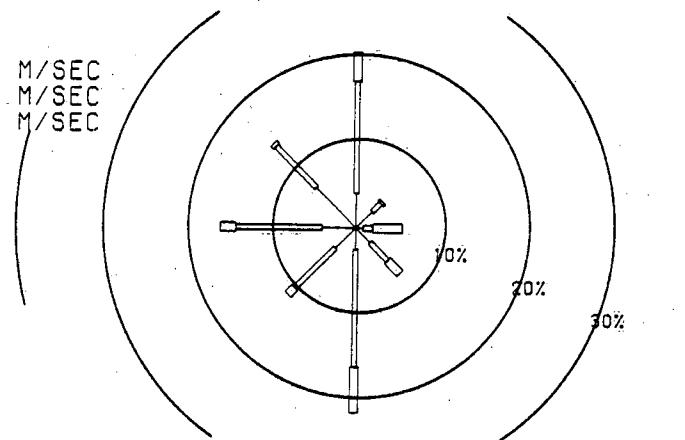
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

MOORING: 8 DATE: NOV 1975

MONTHLY SUMMARY: WIND AND CURRENT*

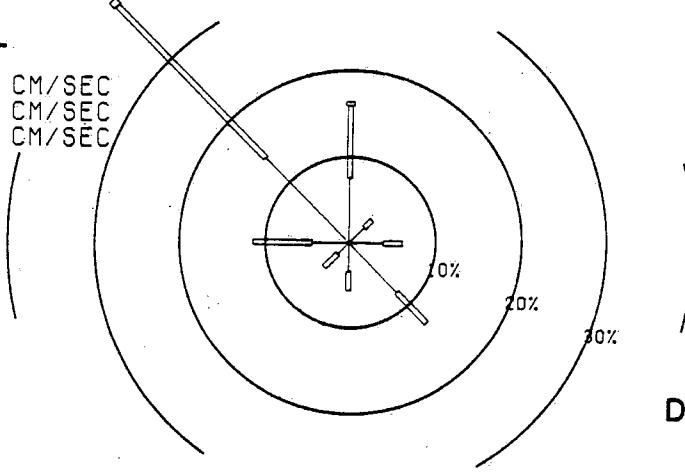
WIND

— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

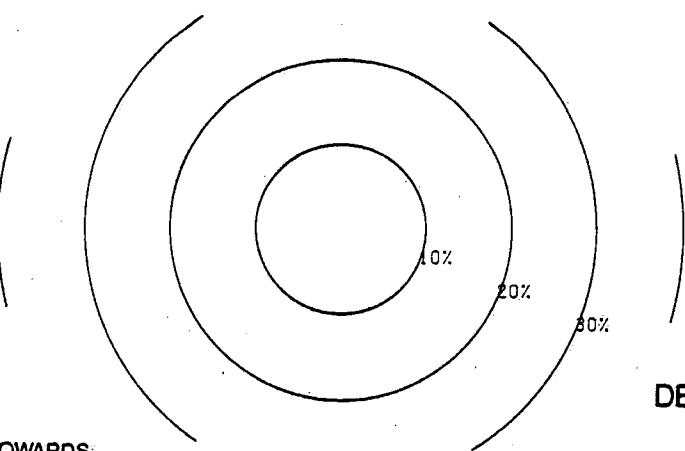


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



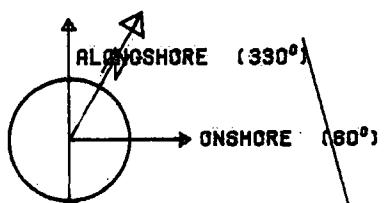
DEPTH: 59 m



DEPTH: m

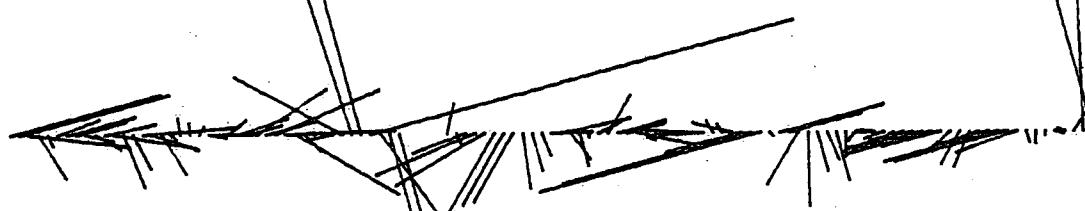
*DIRECTION TOWARDS

MOORING: 75-5C-08 DATE: NOV 1975



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

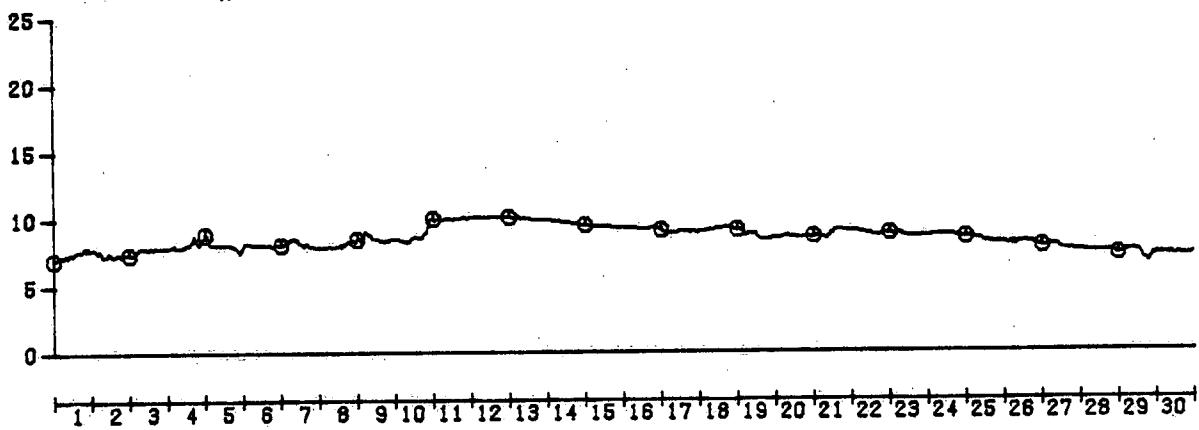
DEPTH: 59 M



DEPTH: M

○ - 59 M
△ - M

TEMPERATURE °C

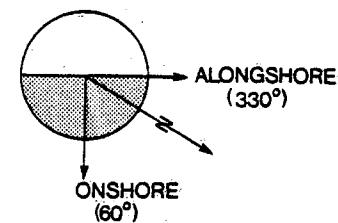
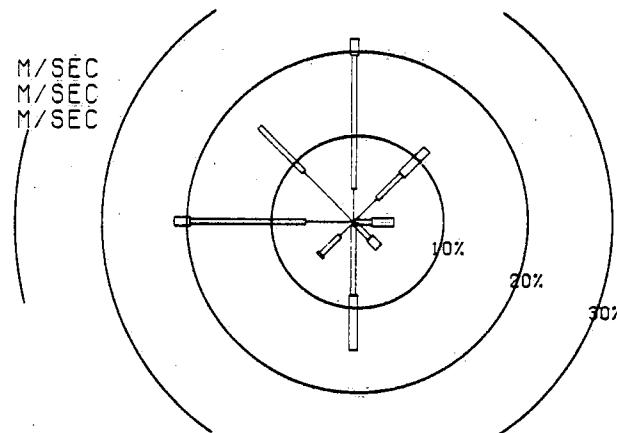


MOORING: 1

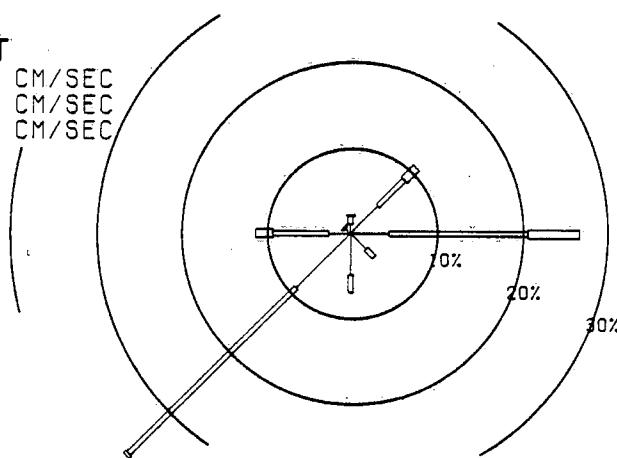
DATE: DEC. 1975

MONTHLY SUMMARY: WIND AND CURRENT*

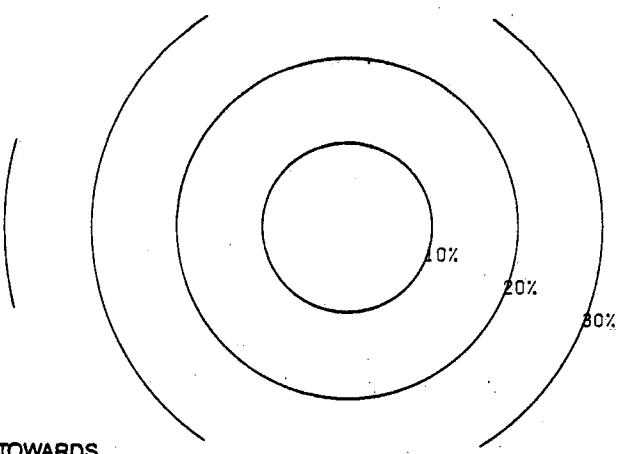
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



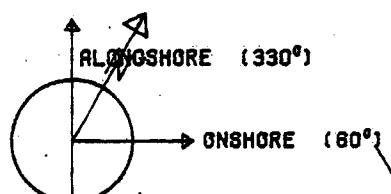
DEPTH: 15 m



DEPTH: m

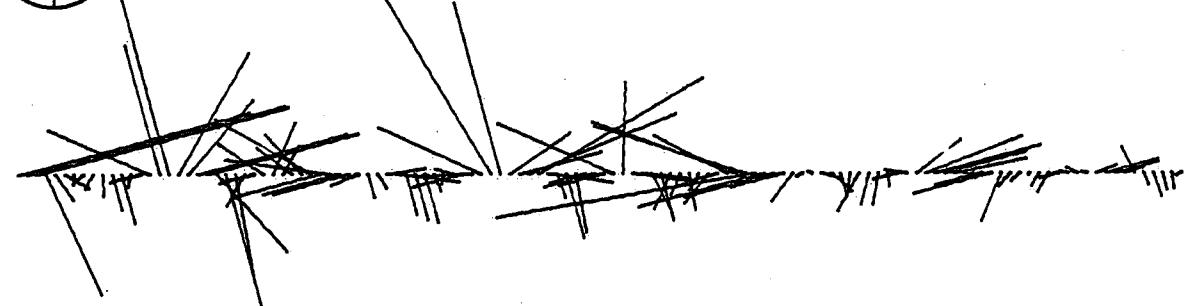
*DIRECTION TOWARDS

MOORING: 75-5C-01 DATE: DEC 1975



WINDSPEED²

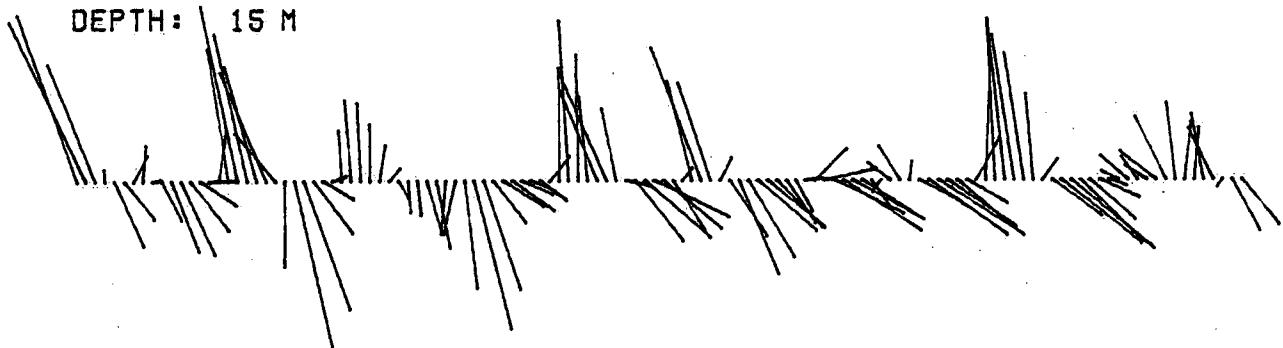
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

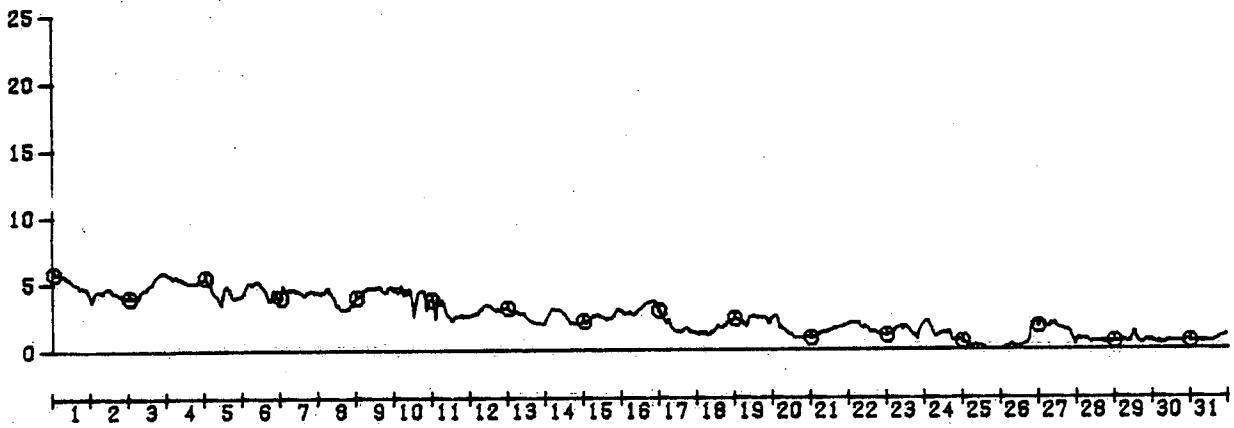
DEPTH: 15 M



DEPTH: M

○ - 15 M
△ - M

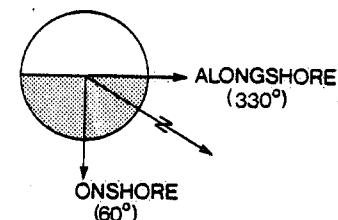
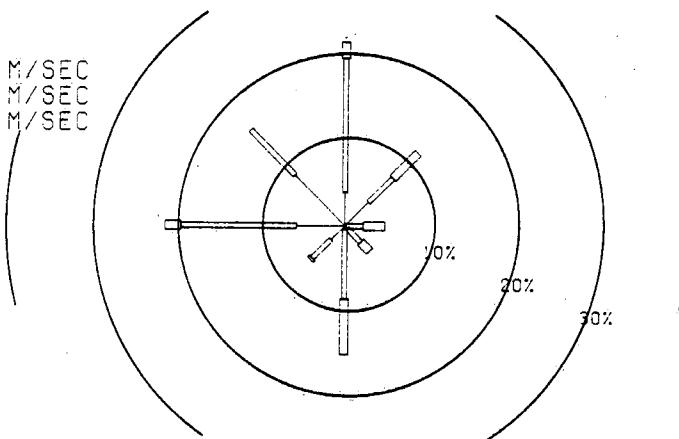
TEMPERATURE °C



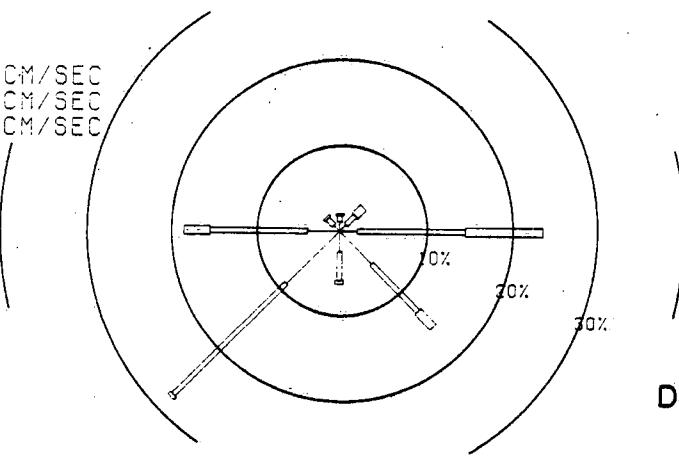
MOORING: 2 DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

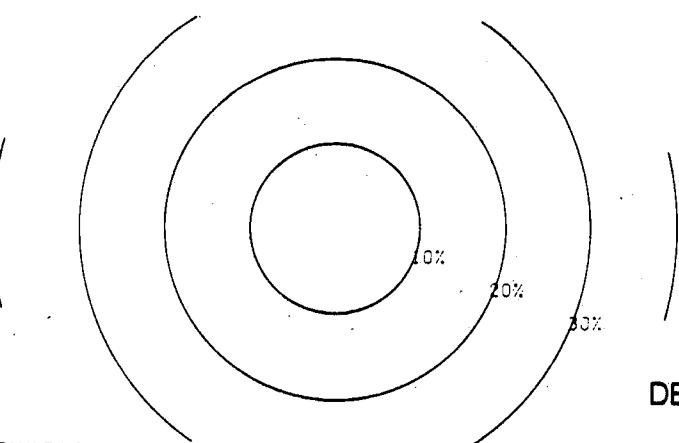
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



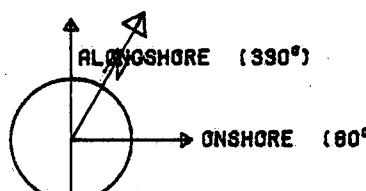
DEPTH: 15 m



DEPTH: m

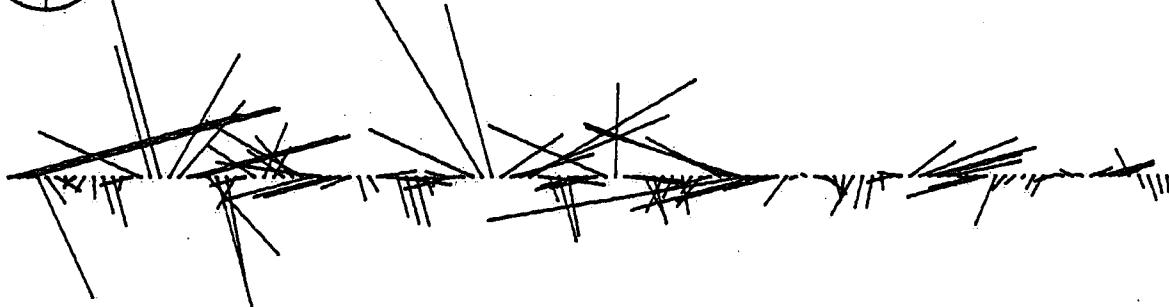
*DIRECTION TOWARDS

MOORING: 75-5C-02 DATE: DEC 1975



WINDSPEED²

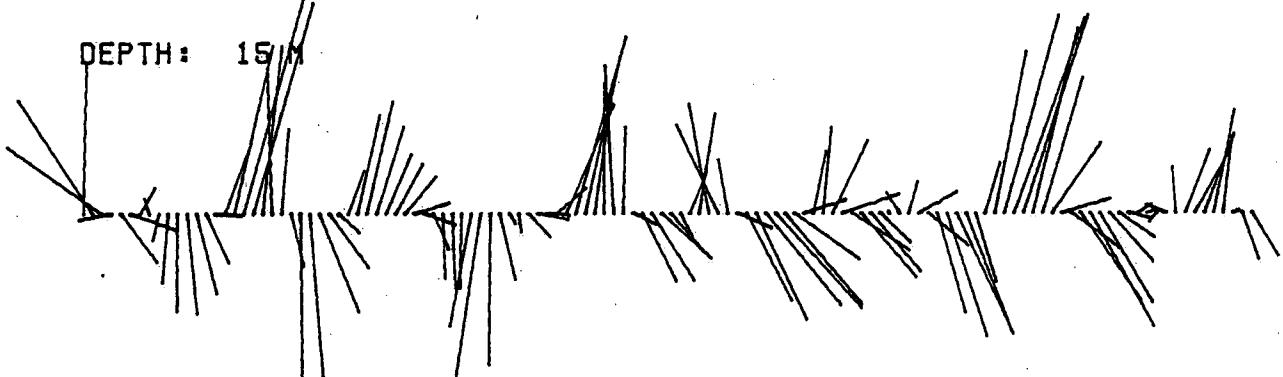
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

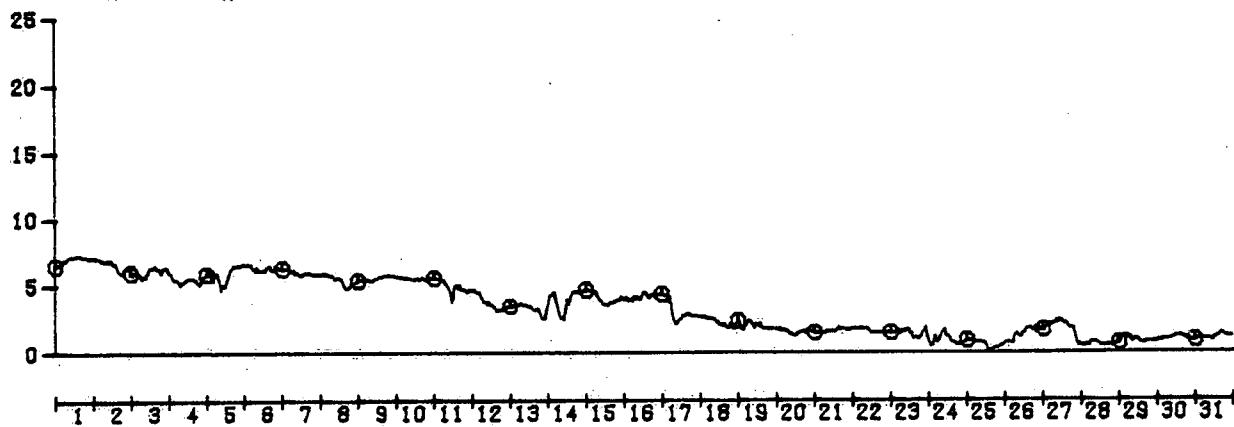
DEPTH: 15 M



DEPTH: M

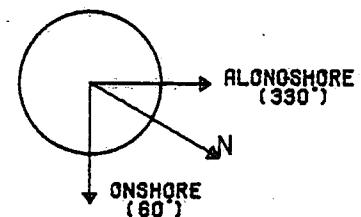
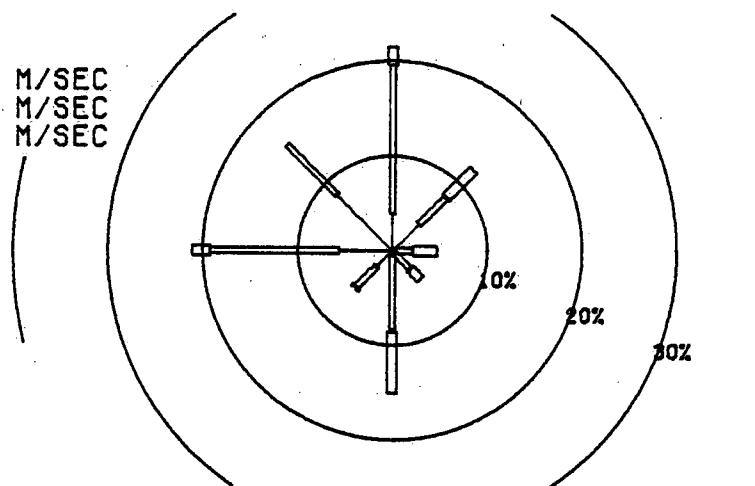
○ - 15 M
△ - M

TEMPERATURE °C

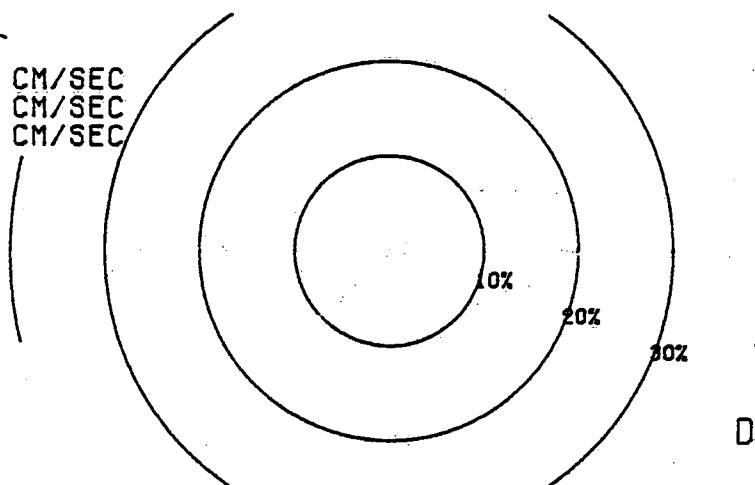


MOORING: 3 DATE: DEC 1975
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

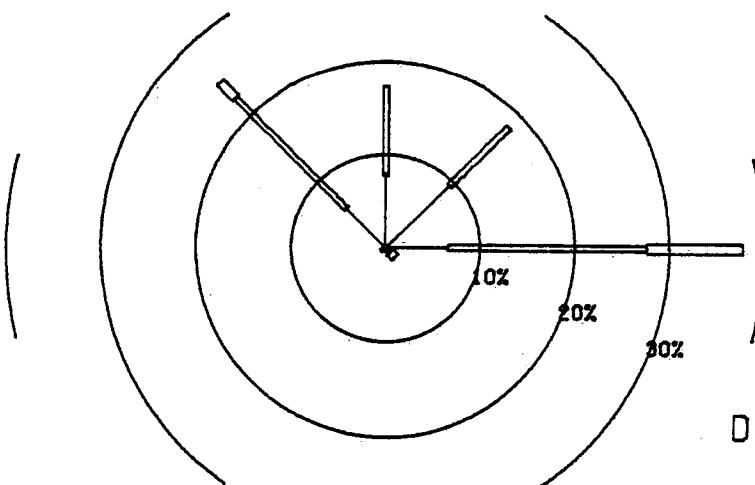


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



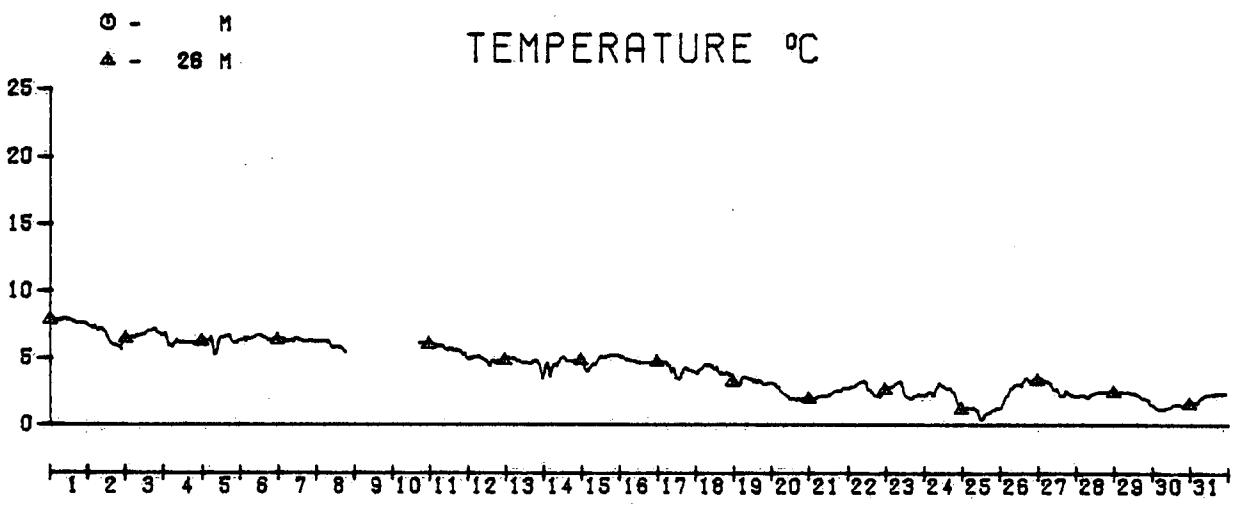
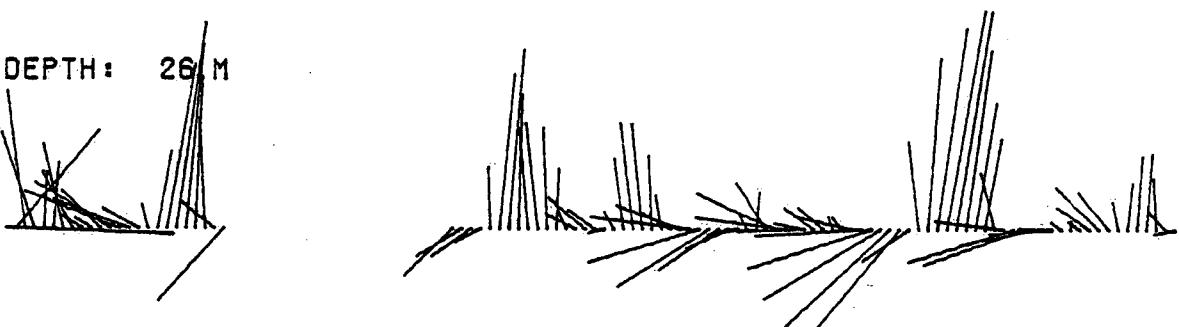
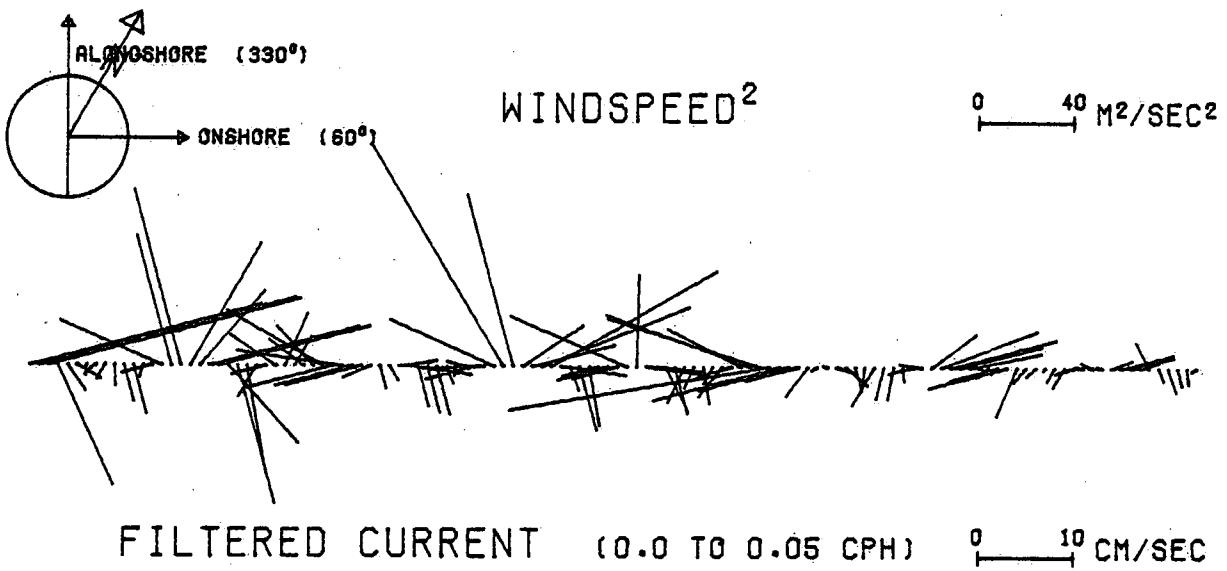
DEPTH: 15 M

* DIRECTION TOWARDS



DEPTH: 26 M

MOORING: 75-5C-03 DATE: DEC 1975

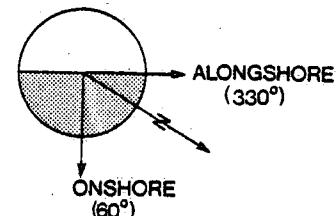
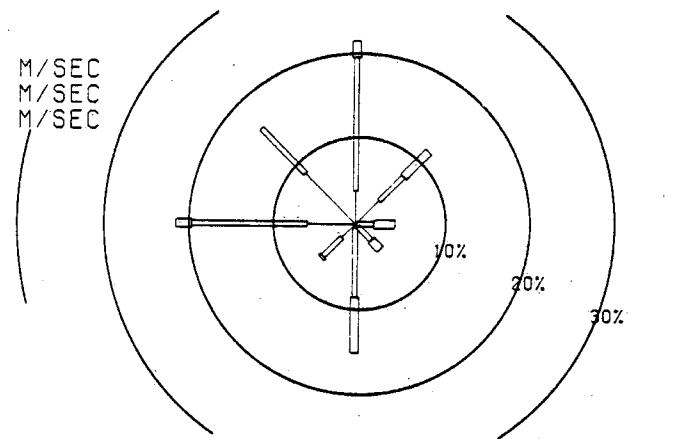


MOORING: 4

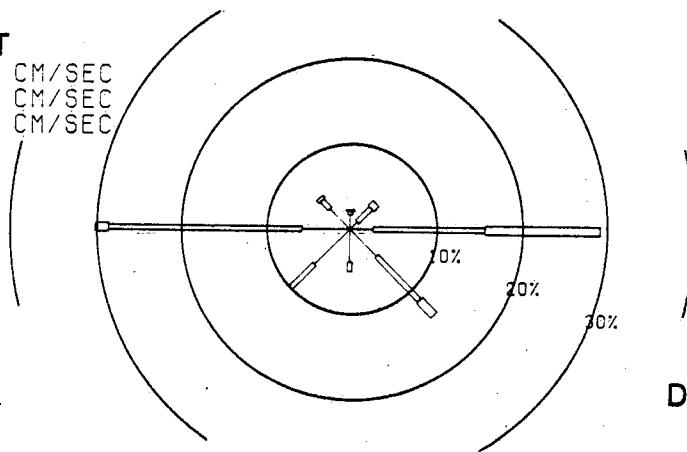
DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

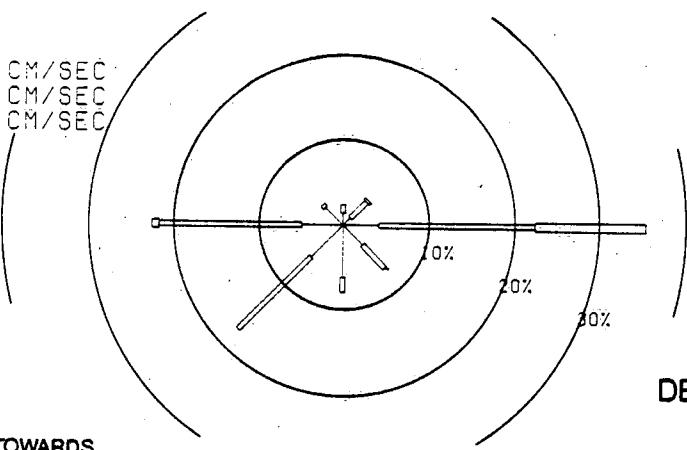


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

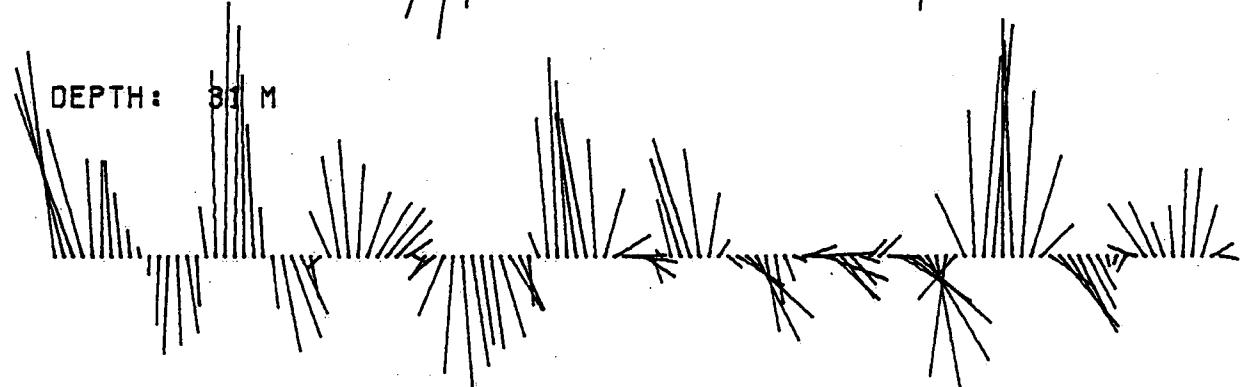
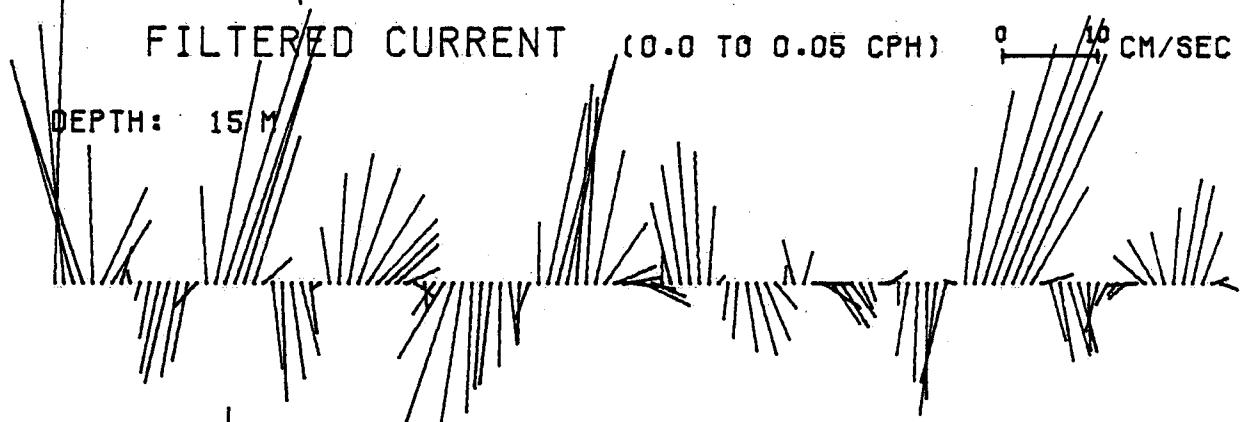
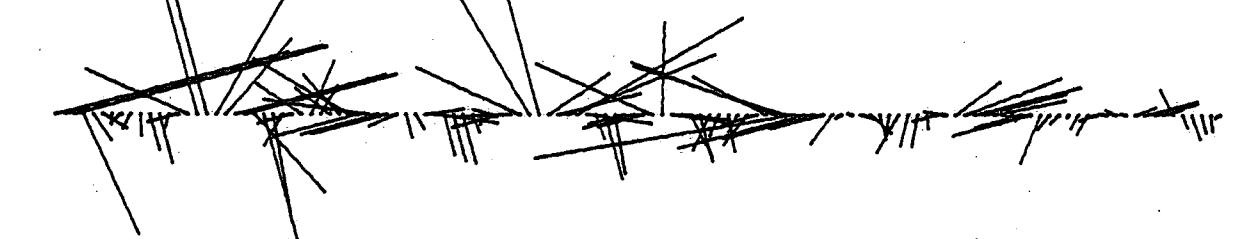
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 31 m

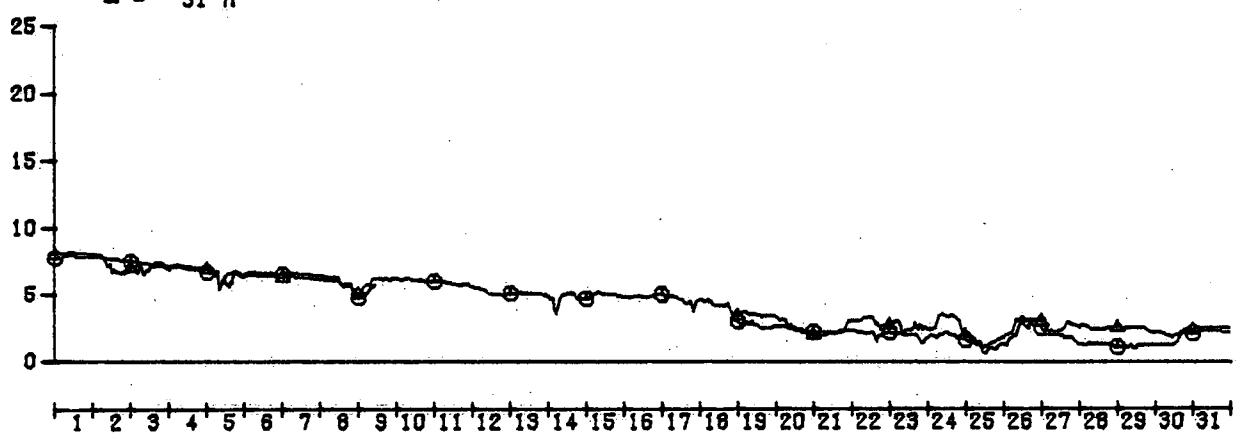
*DIRECTION TOWARDS

MOORING: 75-5C-04 DATE: DEC 1975

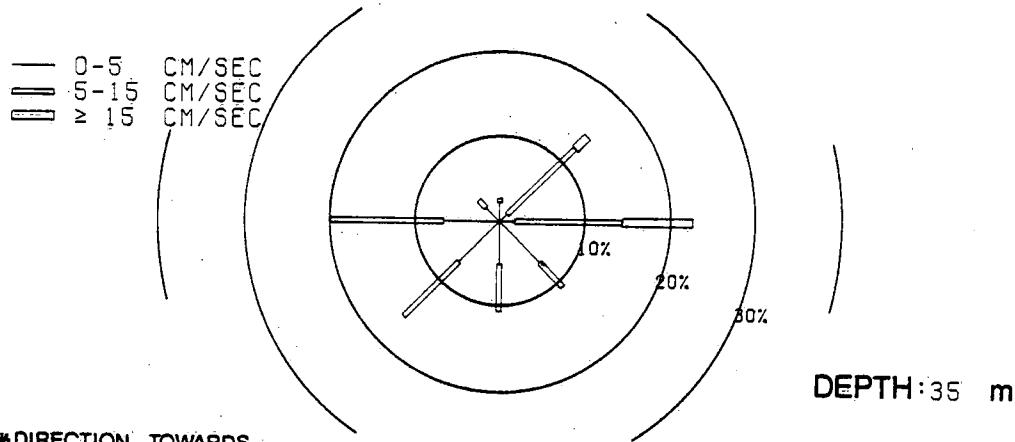
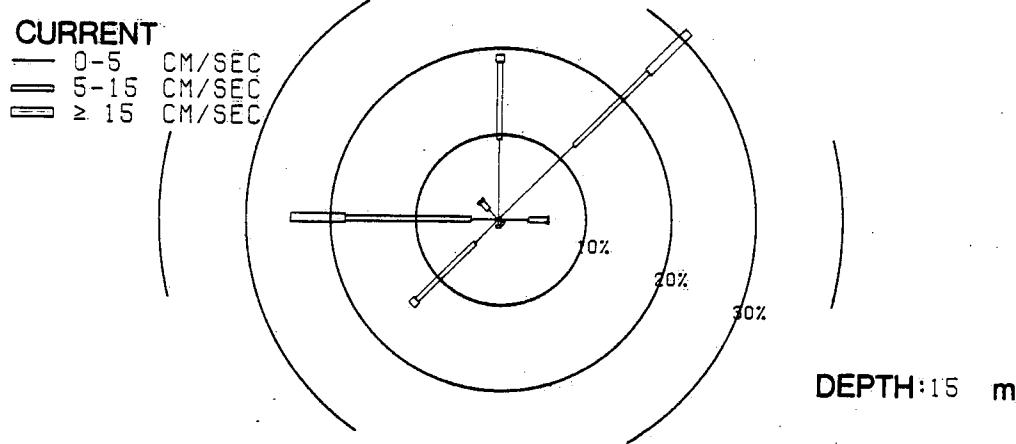
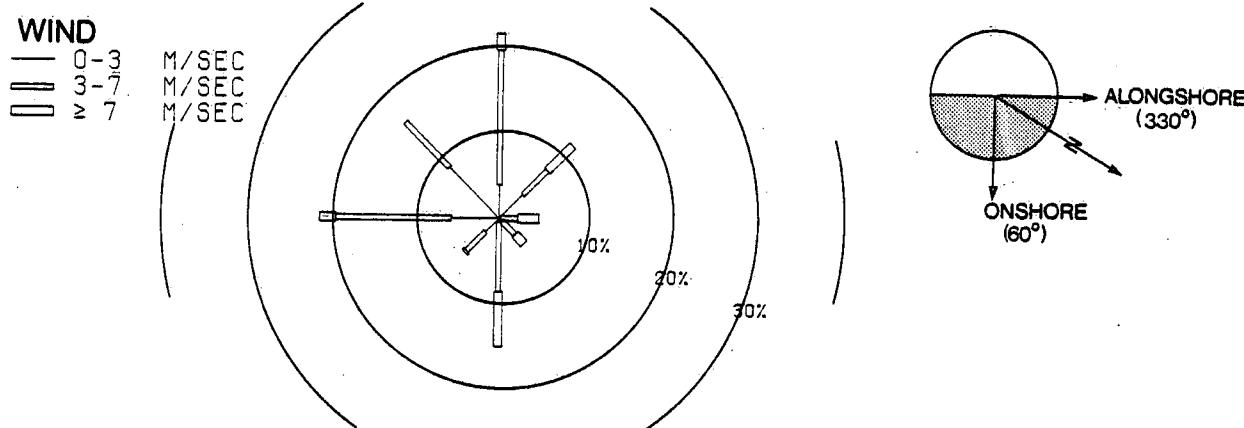


○ - 15 M
△ - 31 M

TEMPERATURE °C

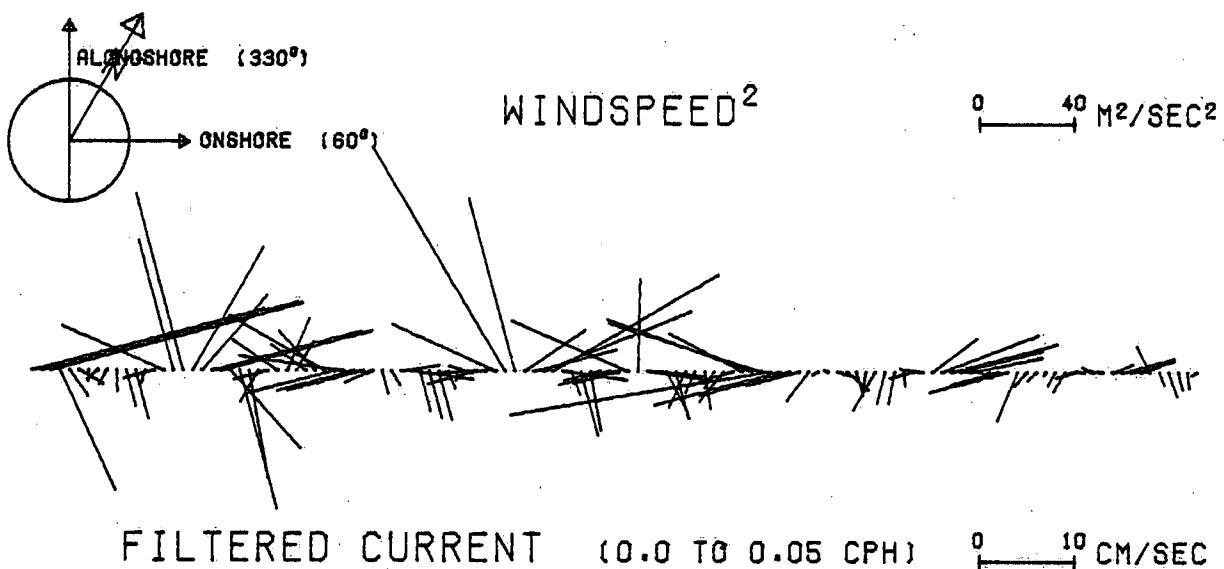


MOORING: 5 DATE: DEC 1975
MONTHLY SUMMARY: WIND AND CURRENT*

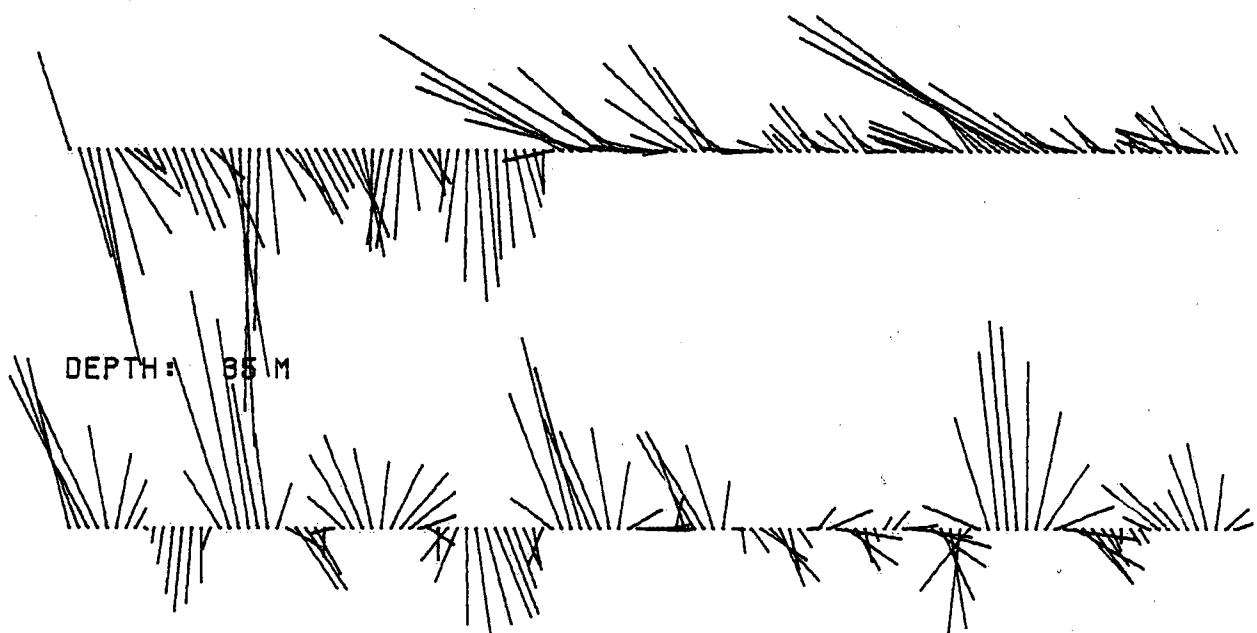


*DIRECTION TOWARDS

MOORING: 75-5C-05 DATE: DEC 1975

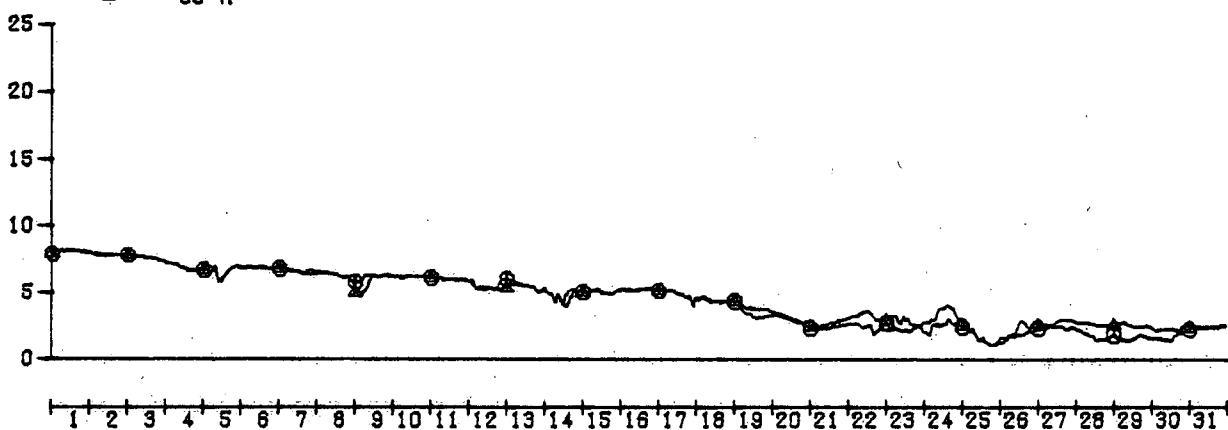


DEPTH: 15 M



○ - 15 M
△ - 35 M

TEMPERATURE °C

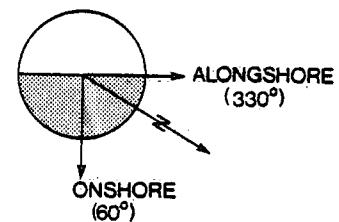
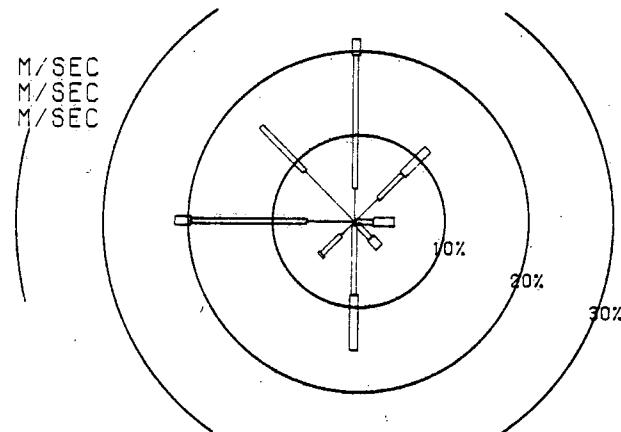


MOORING: 6

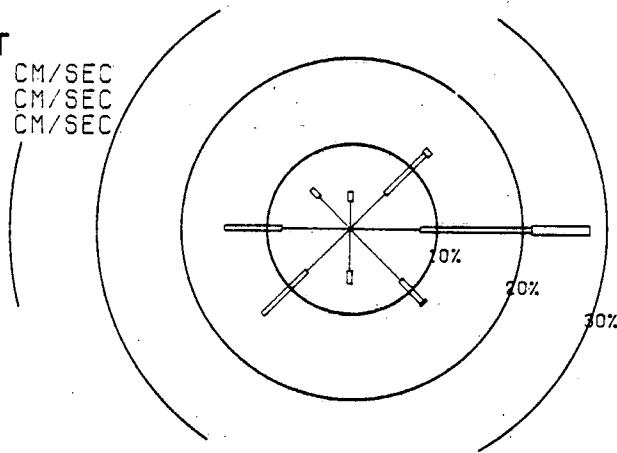
DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

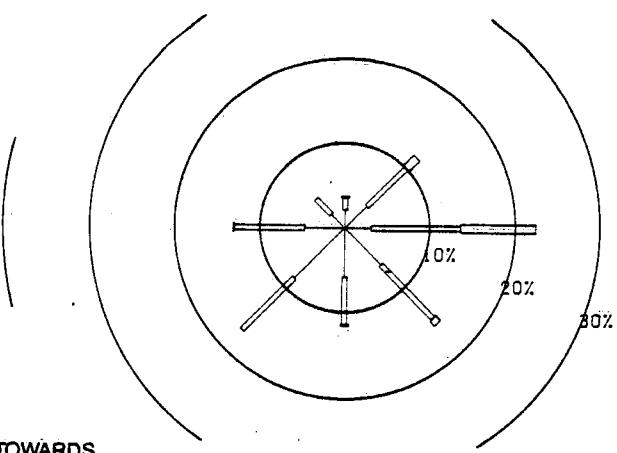
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



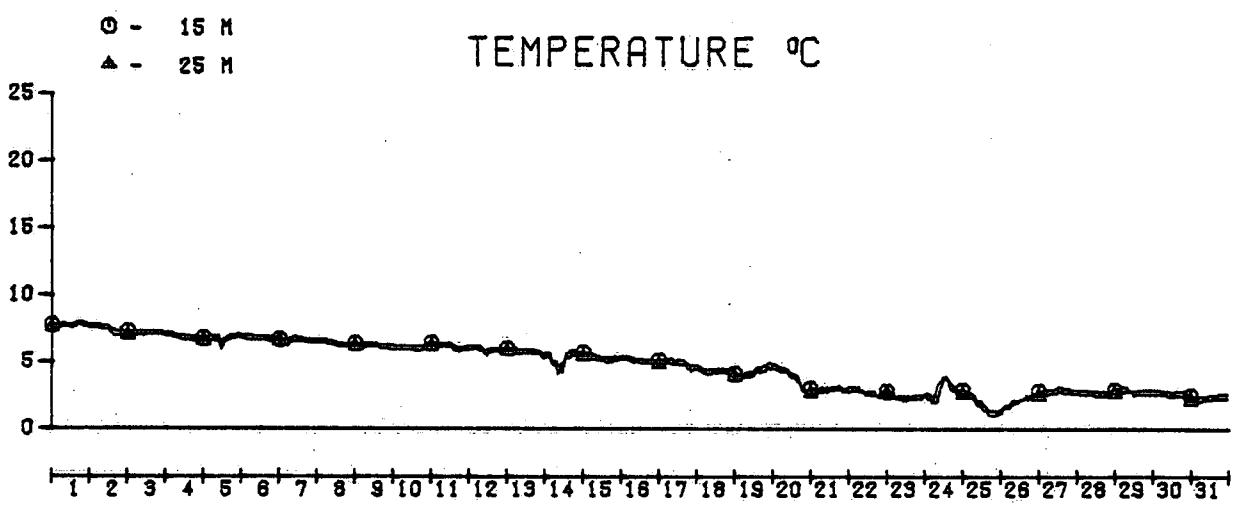
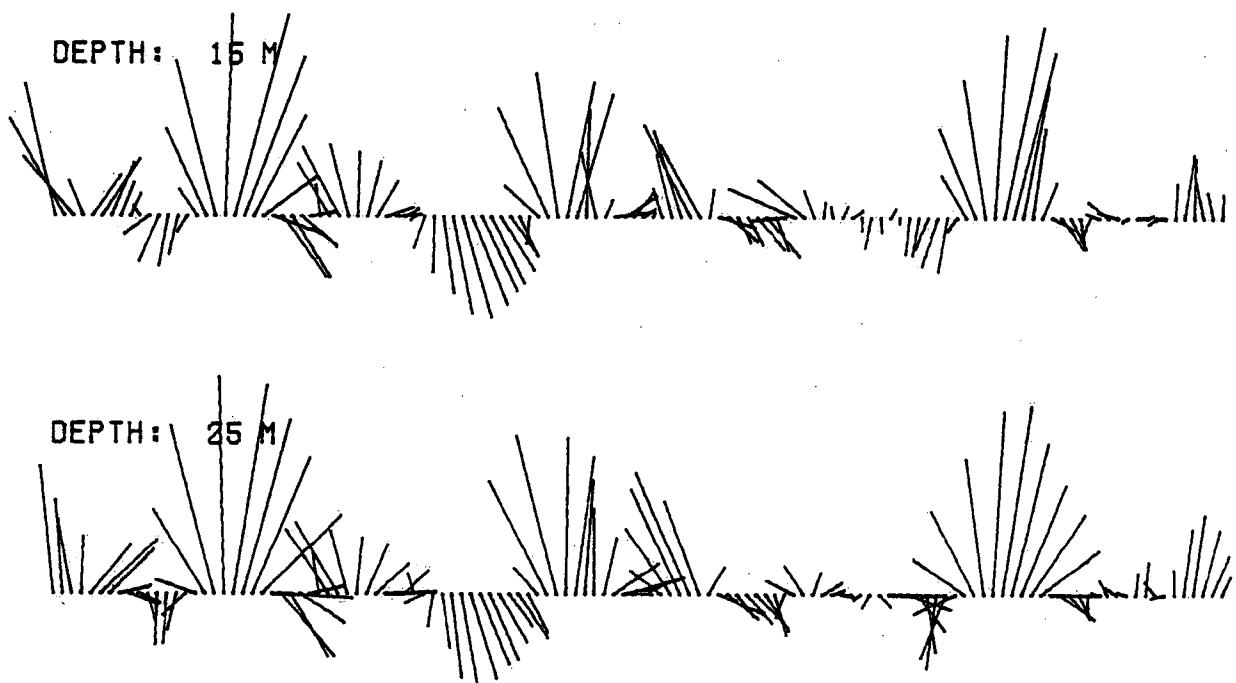
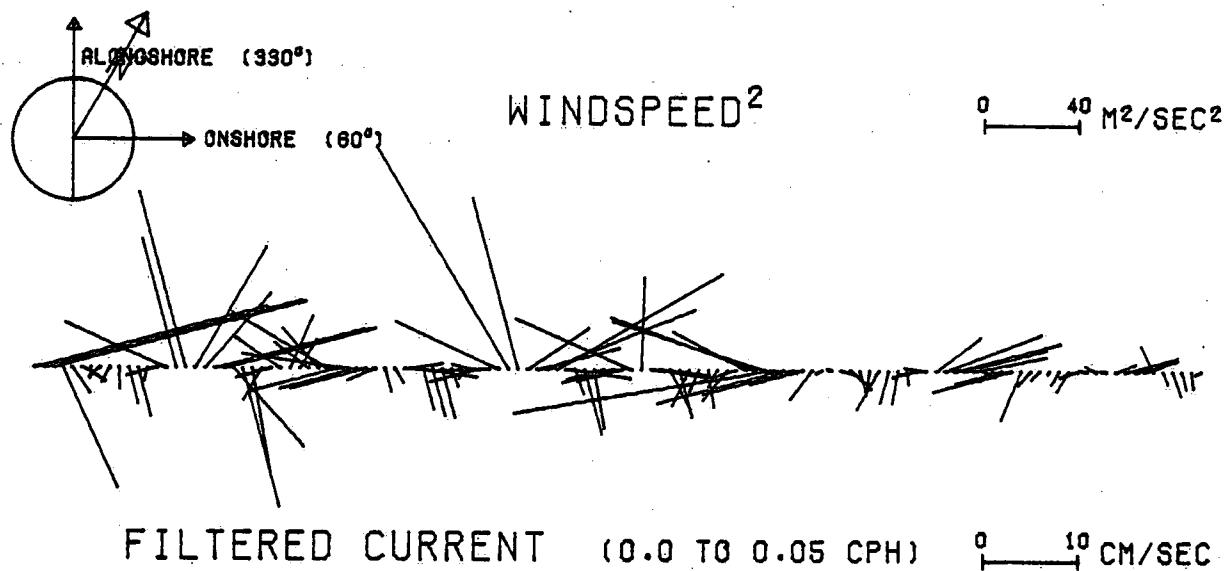
DEPTH: 15 m



DEPTH: 25 m

*DIRECTION TOWARDS

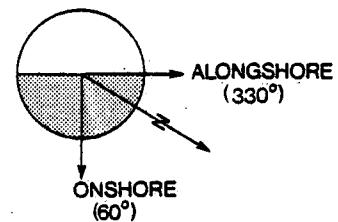
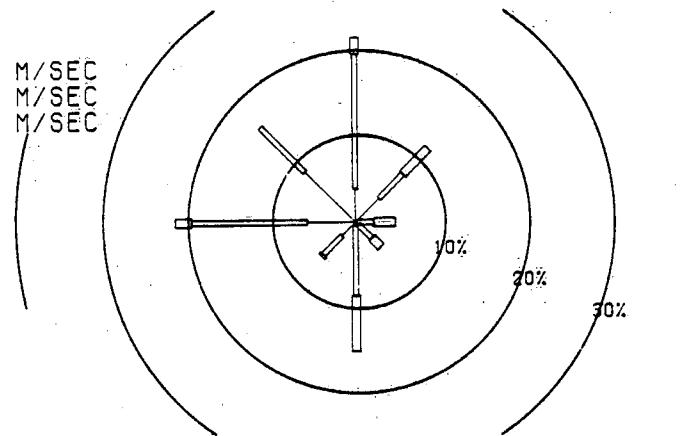
MOORING: 75-5C-06 DATE: DEC 1975



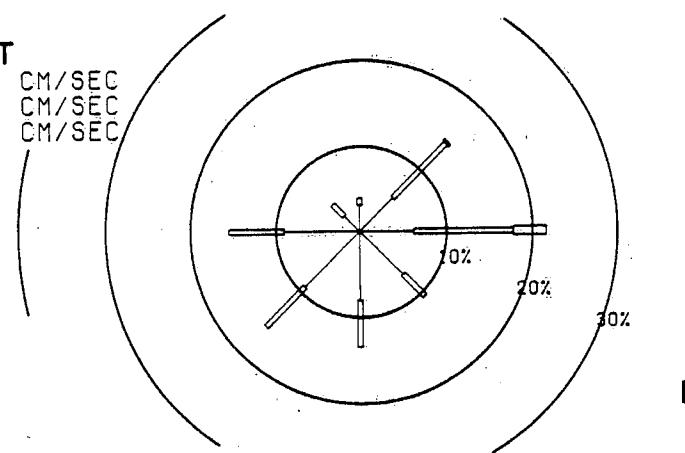
MOORING: 6 DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

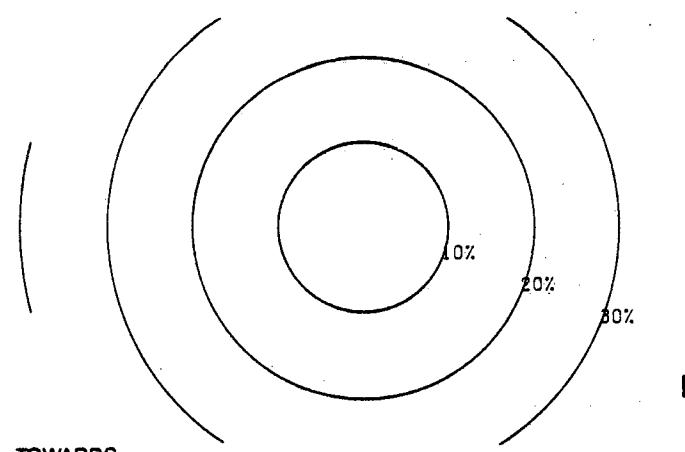
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



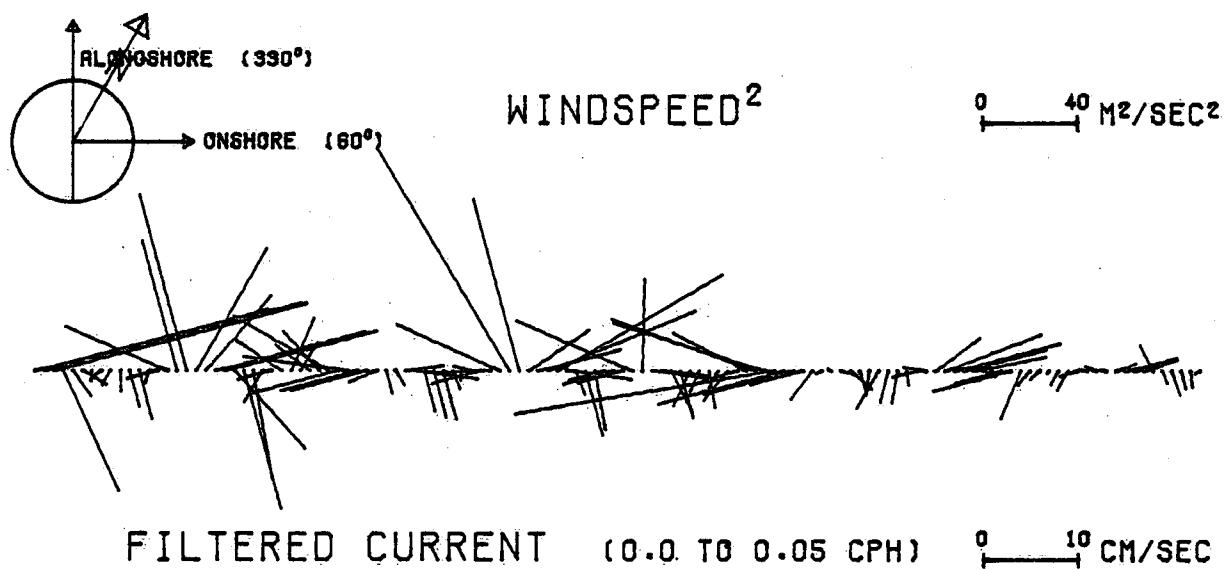
DEPTH: 43 m



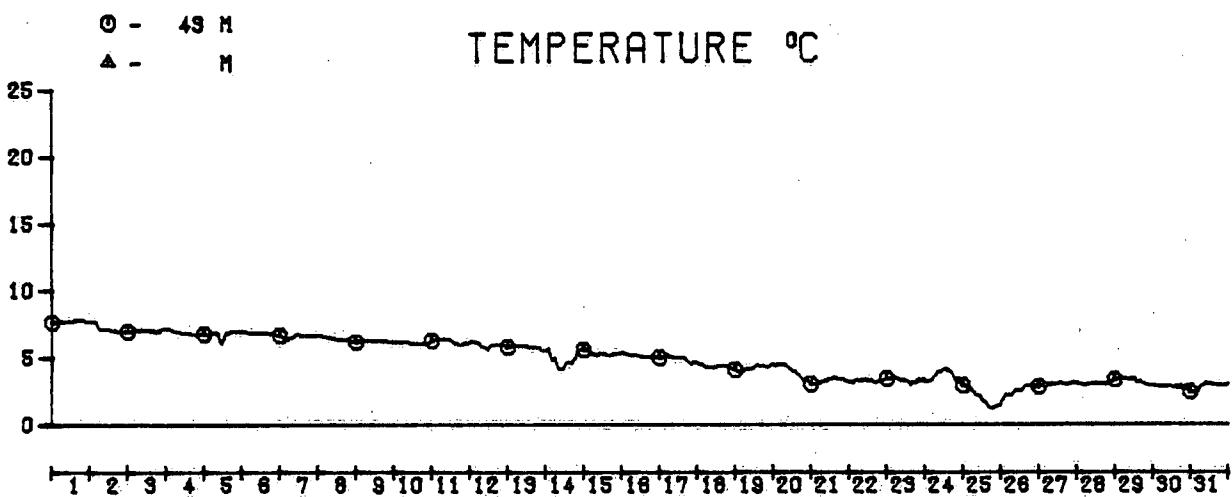
DEPTH: 10 m

*DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: DEC 1975



DEPTH: 43 M

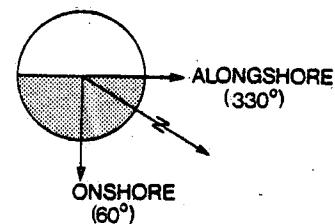
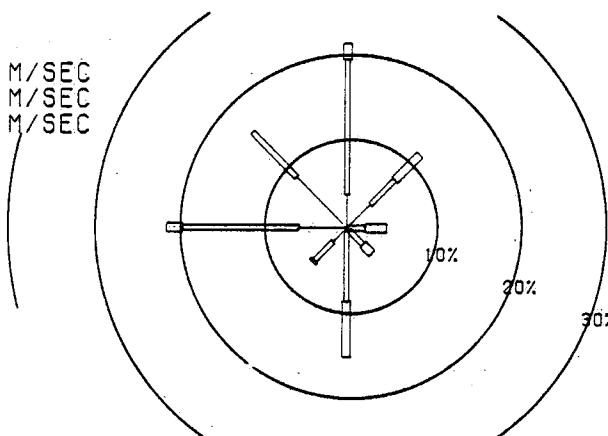


MOORING: 7

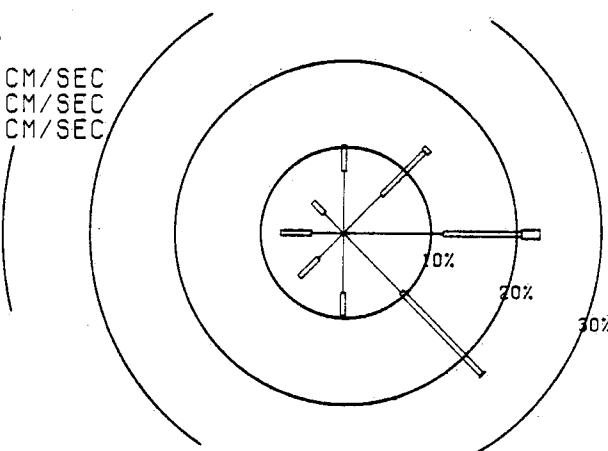
DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

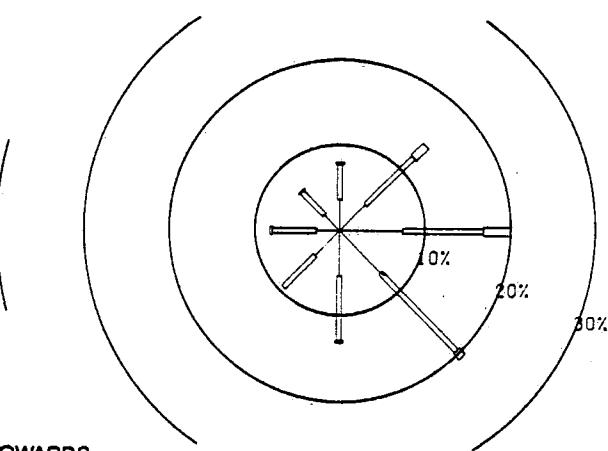
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



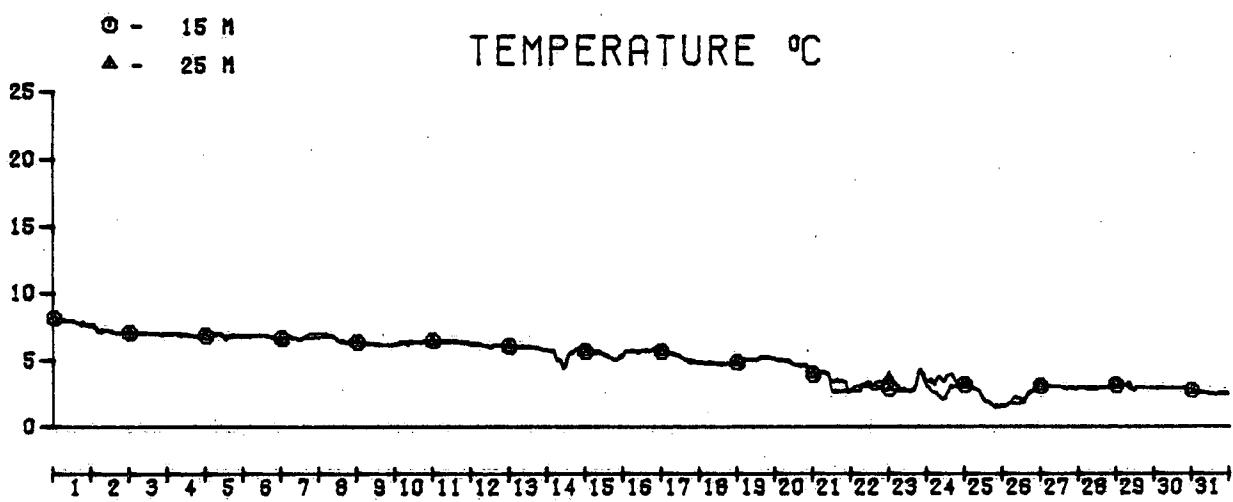
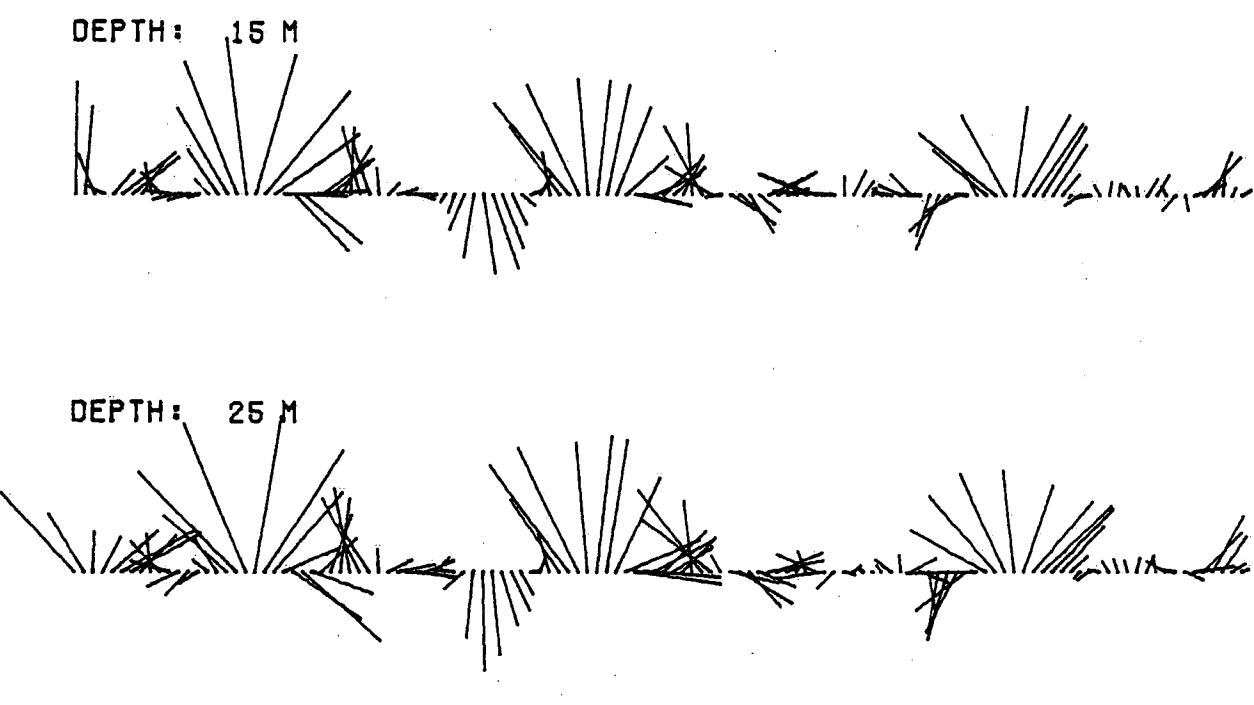
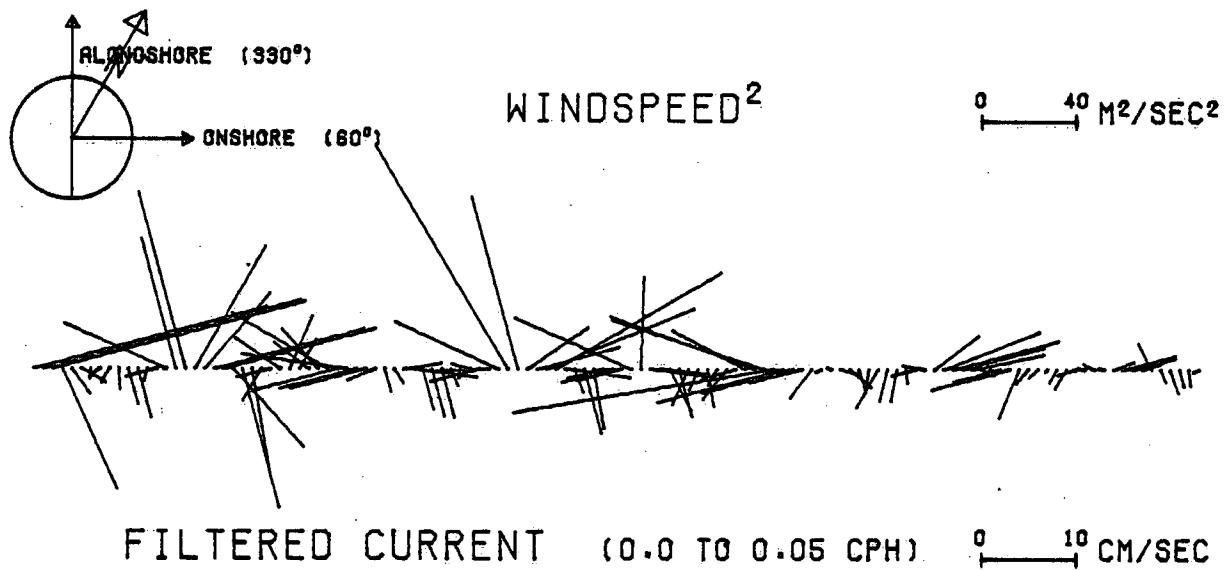
DEPTH: 15 m



DEPTH: 25 m

*DIRECTION TOWARDS

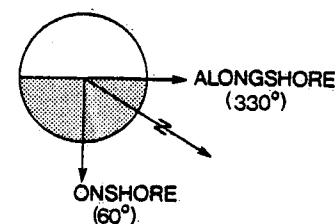
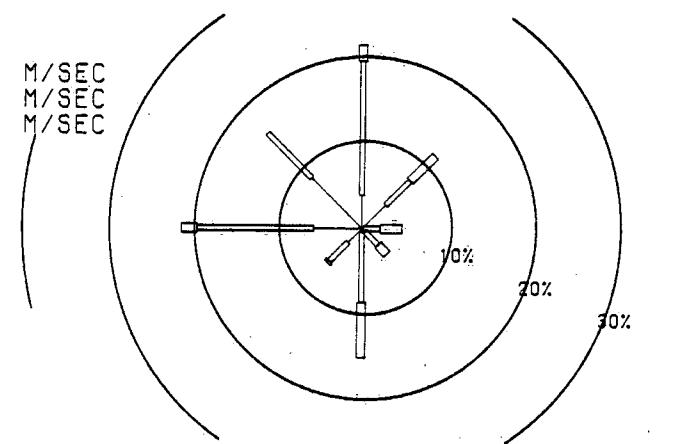
MOORING: 75-5C-07 DATE: DEC 1975



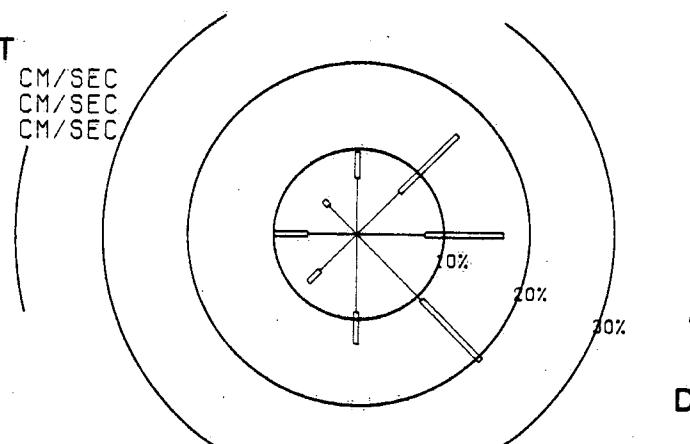
MOORING: 7 DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

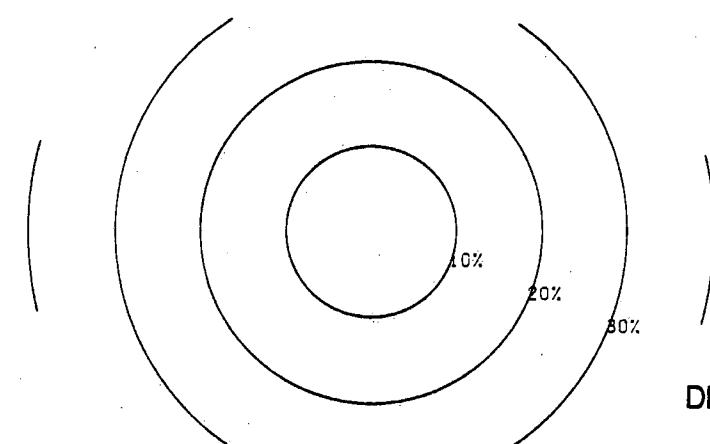
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



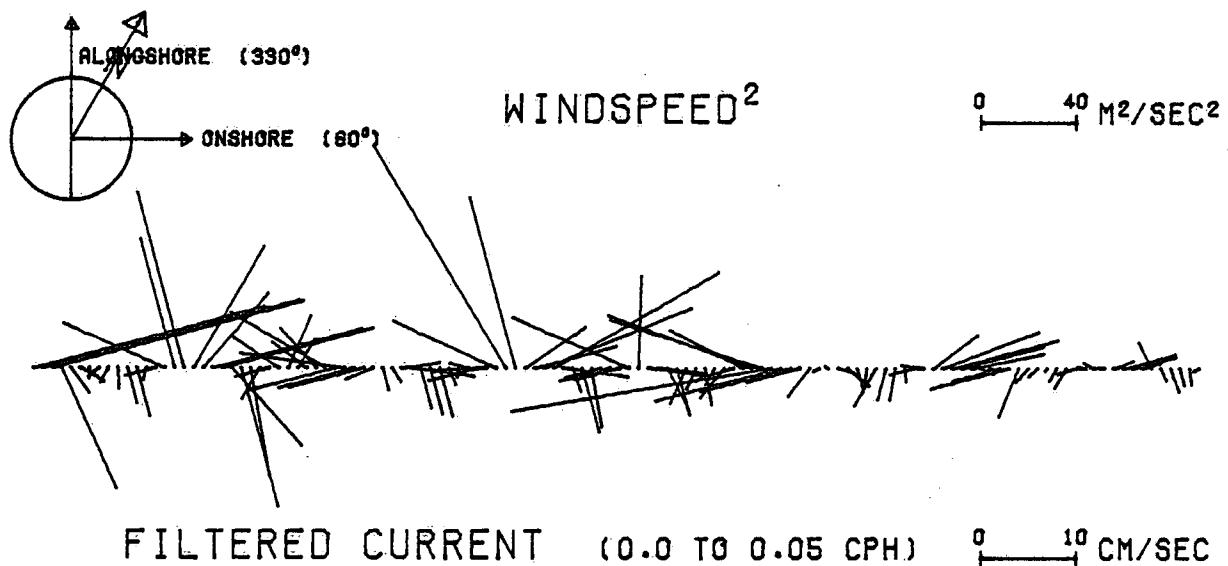
DEPTH: 44 m



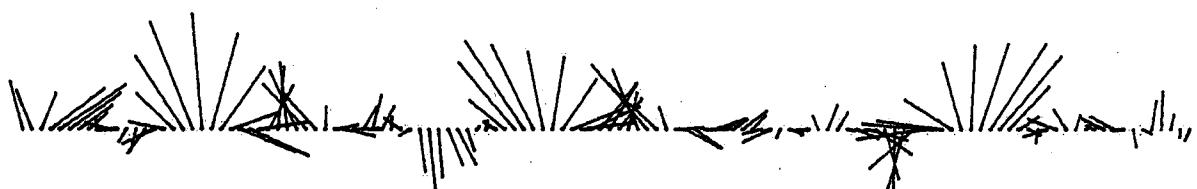
DEPTH: m

*DIRECTION TOWARDS

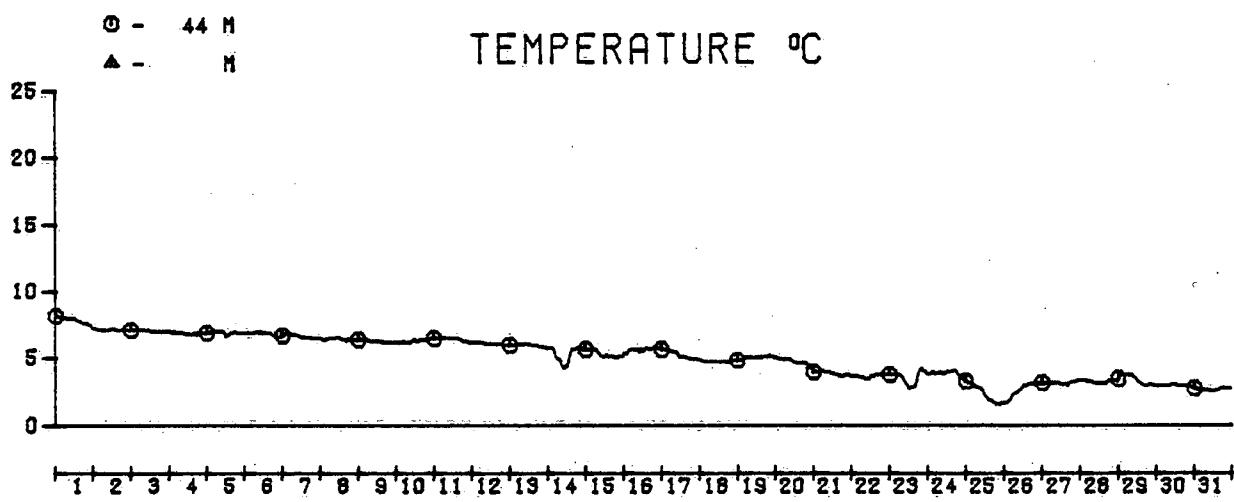
MOORING: 75-5C-07 DATE: DEC 1975



DEPTH: 44 M



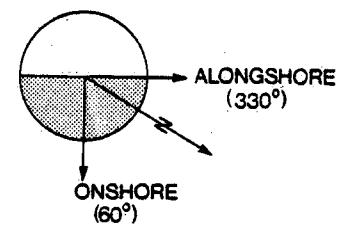
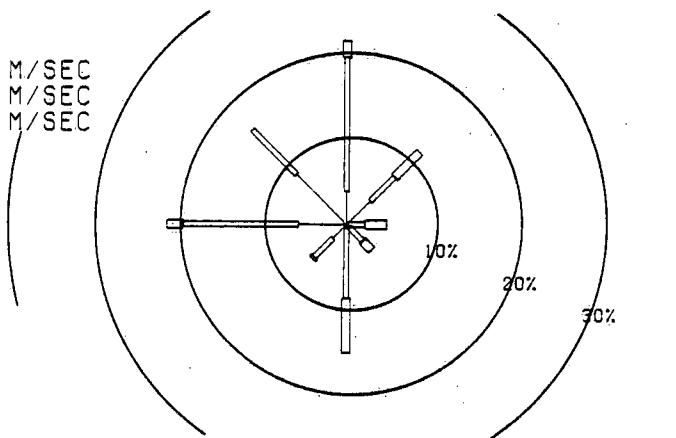
DEPTH: M



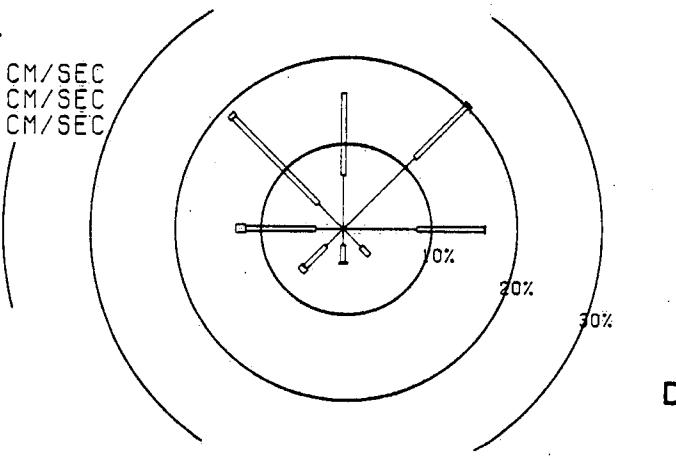
MOORING: 8 DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

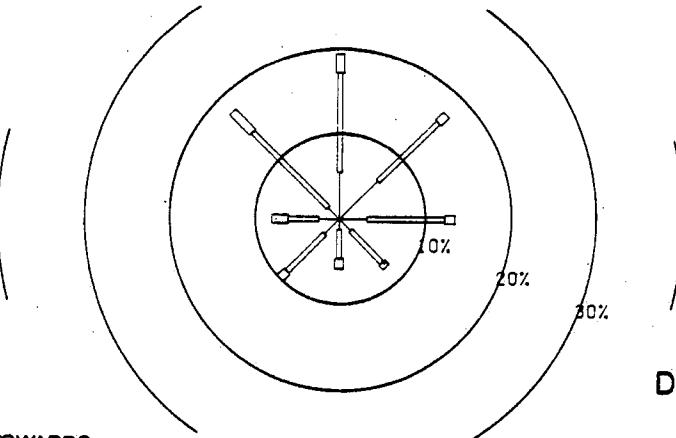
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



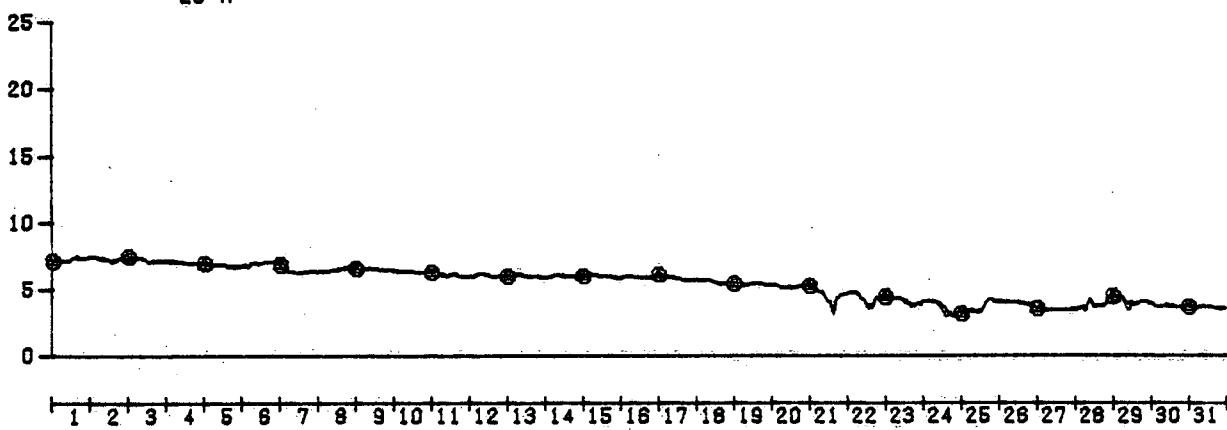
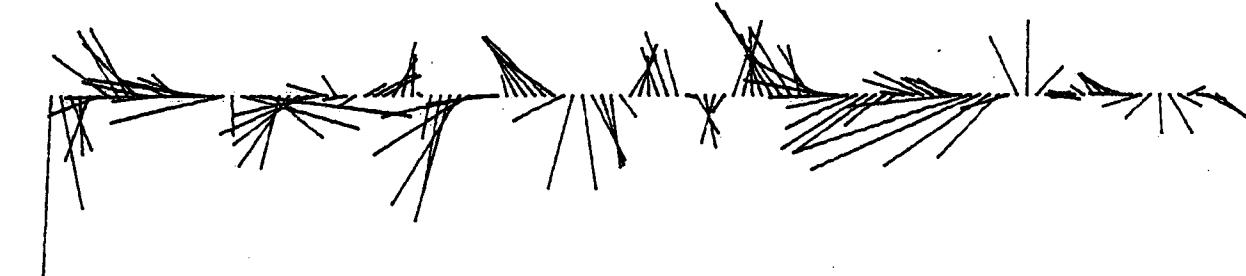
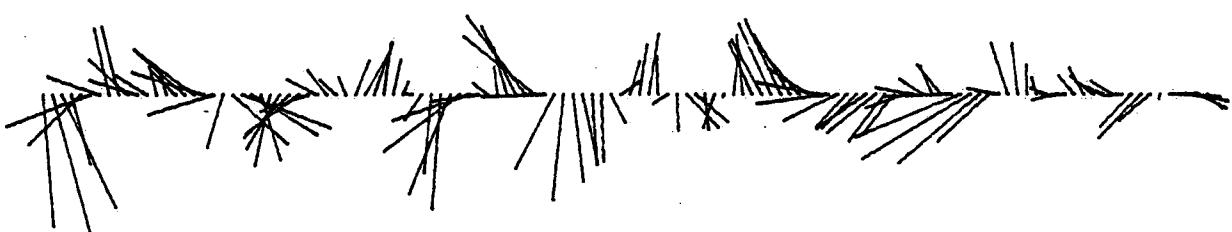
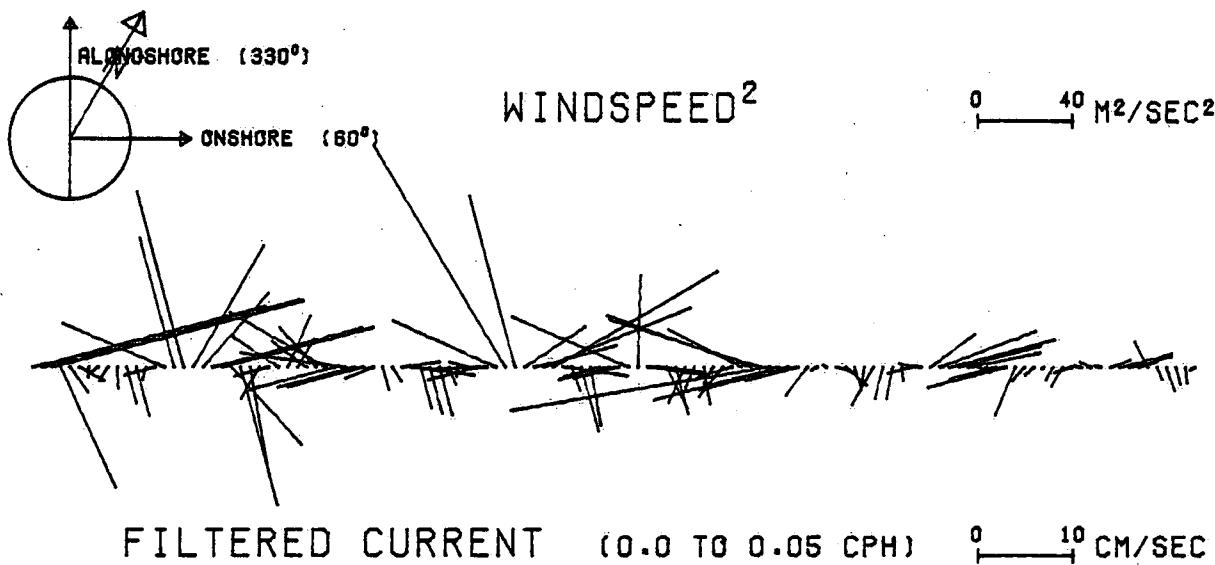
DEPTH: 15 m



DEPTH: 25 m

*DIRECTION TOWARDS

MOORING: 75-5C-08 DATE: DEC 1975

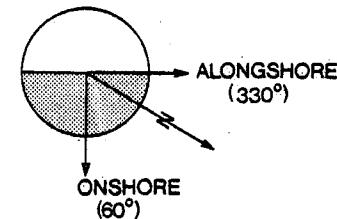
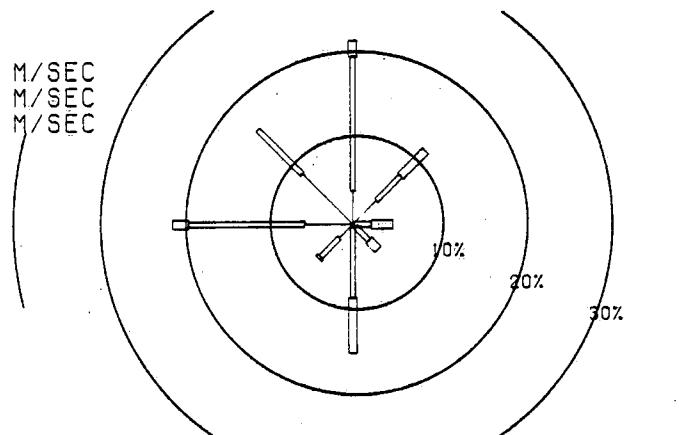


MOORING: 8

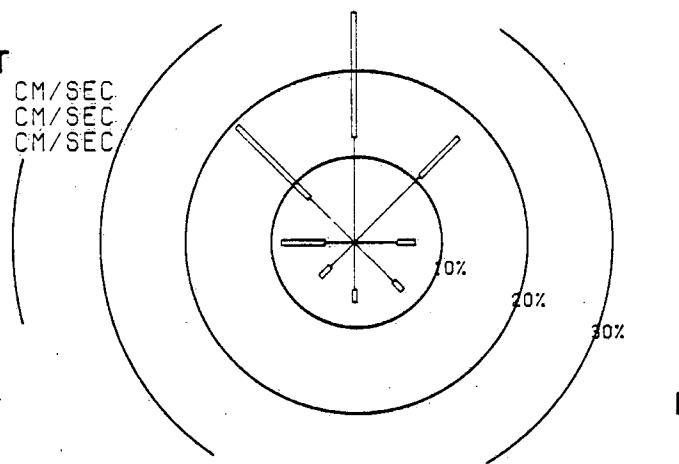
DATE: DEC 1975

MONTHLY SUMMARY: WIND AND CURRENT*

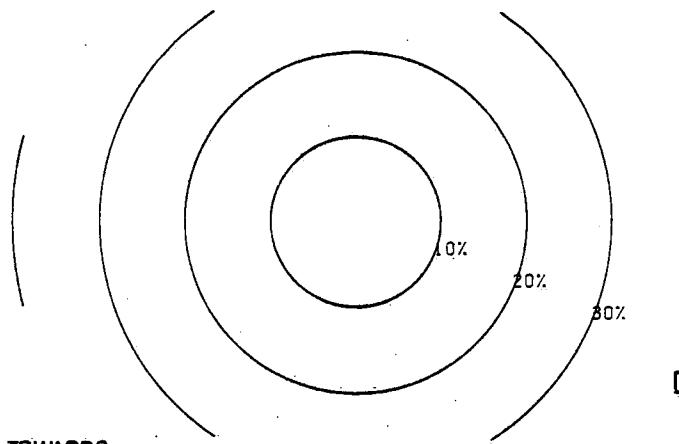
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



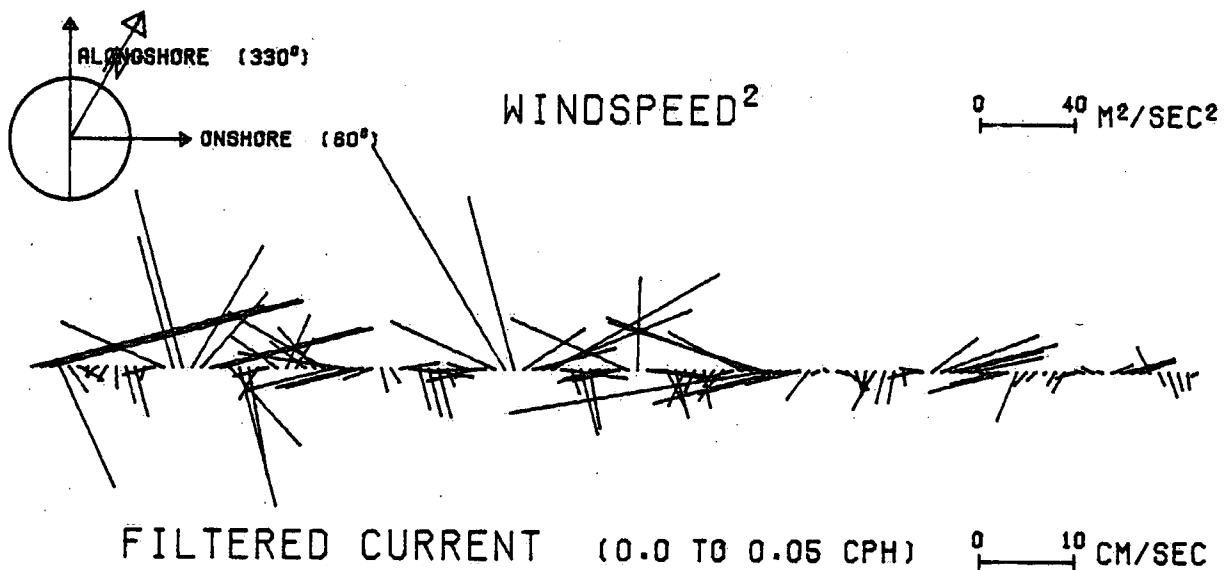
DEPTH: 59 m



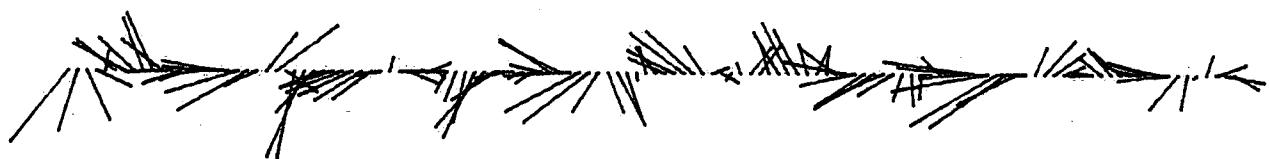
DEPTH: m

*DIRECTION TOWARDS

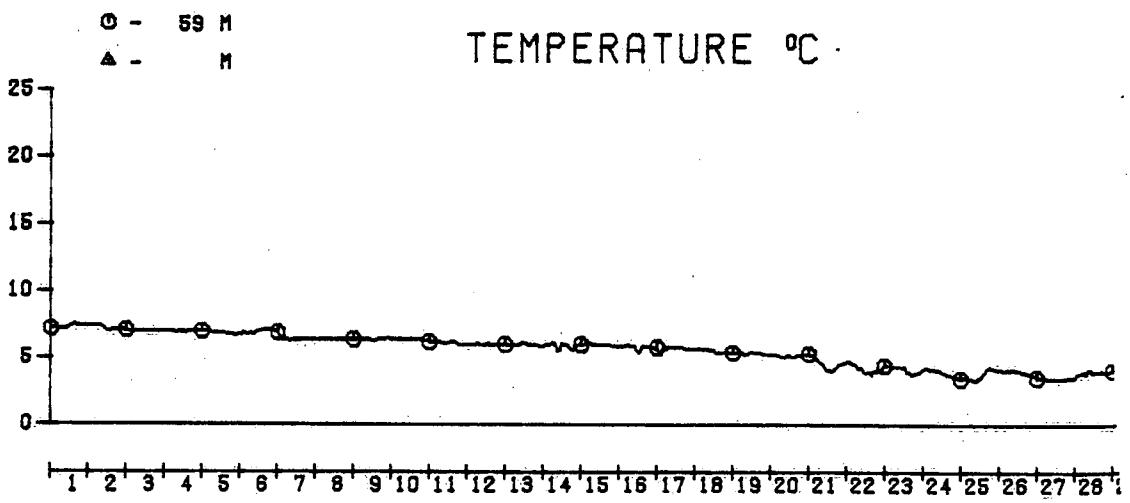
MOORING: 75-5C-08 DATE: DEC 1975



DEPTH: 59 M



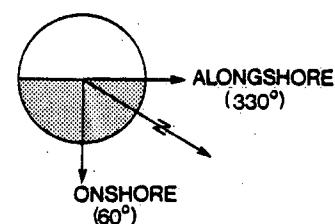
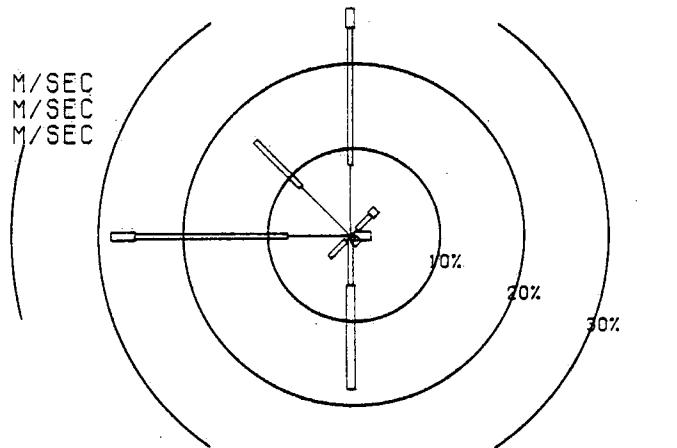
DEPTH: M



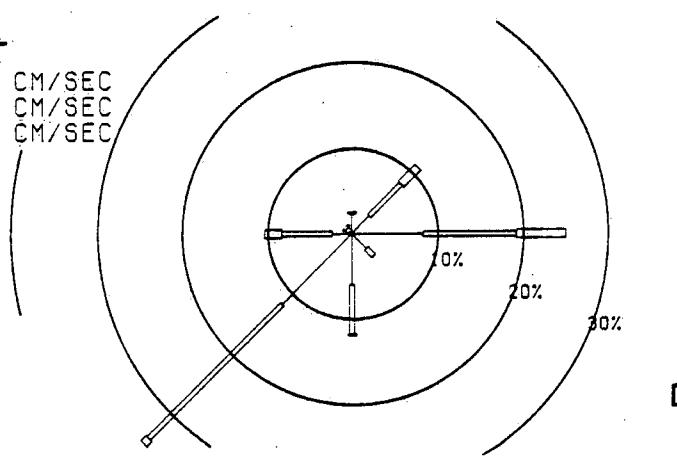
MOORING: 1 DATE: JAN 1976

MONTHLY SUMMARY: WIND AND CURRENT*

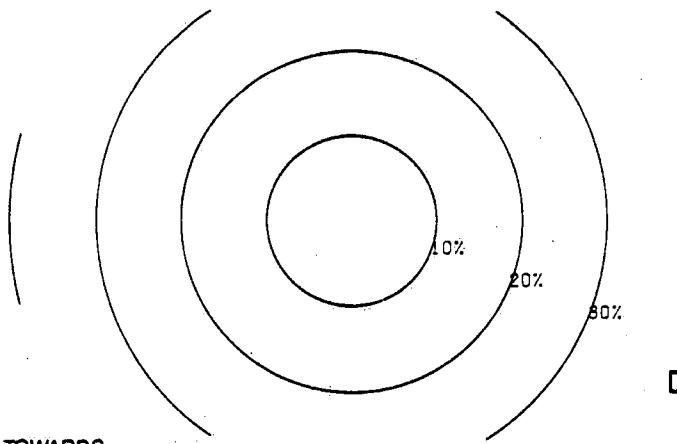
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



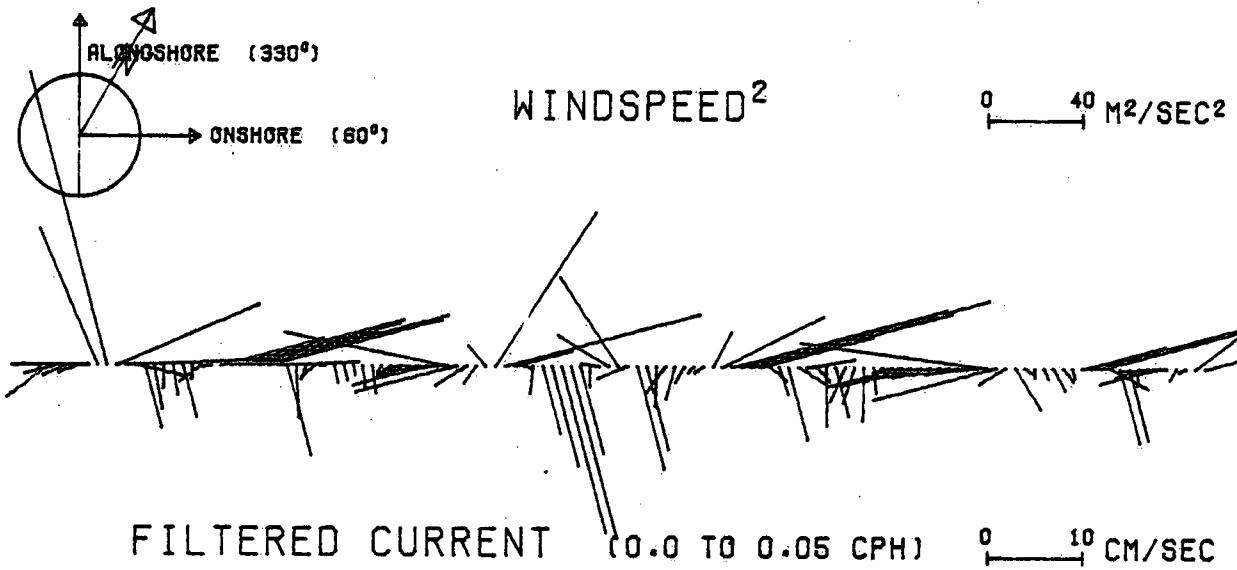
DEPTH: 15 m



DEPTH: m

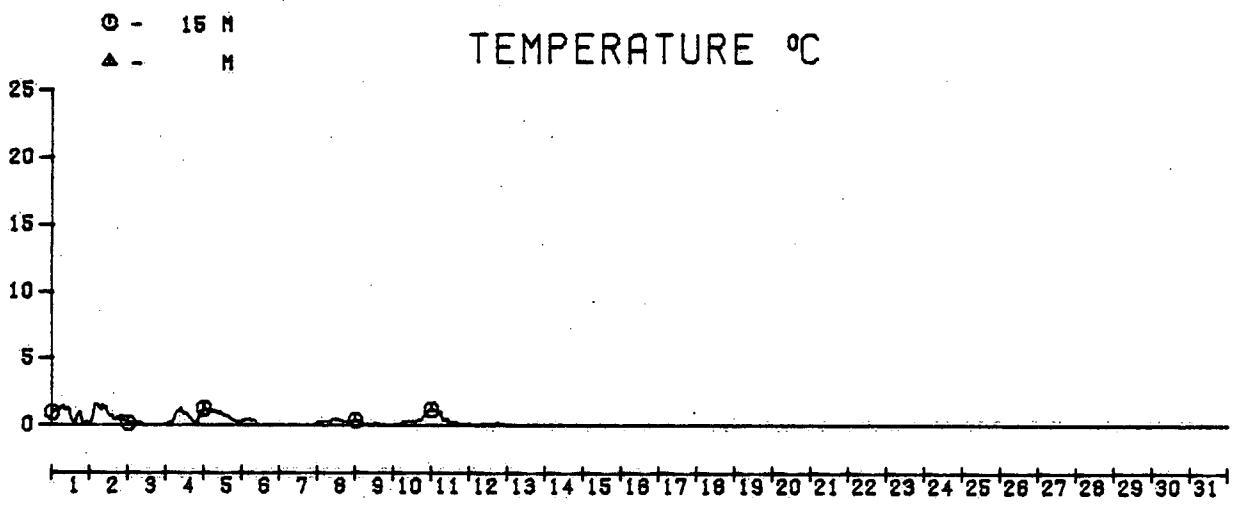
*DIRECTION TOWARDS

MOORING: 75-5C-01 DATE: JAN 1976



DEPTH: 15 M

DEPTH: M

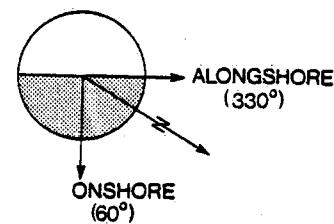
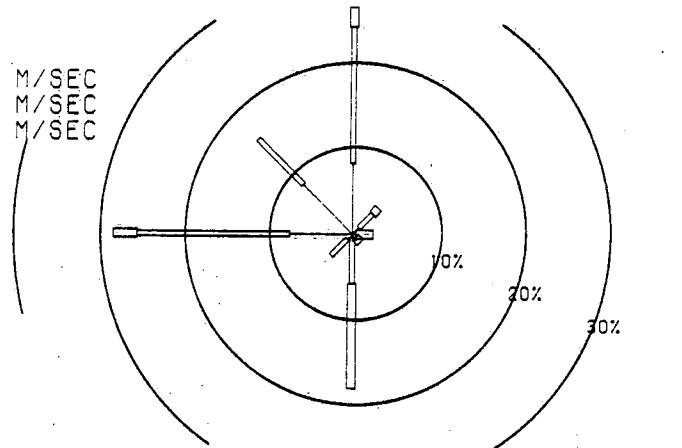


MOORING: 2

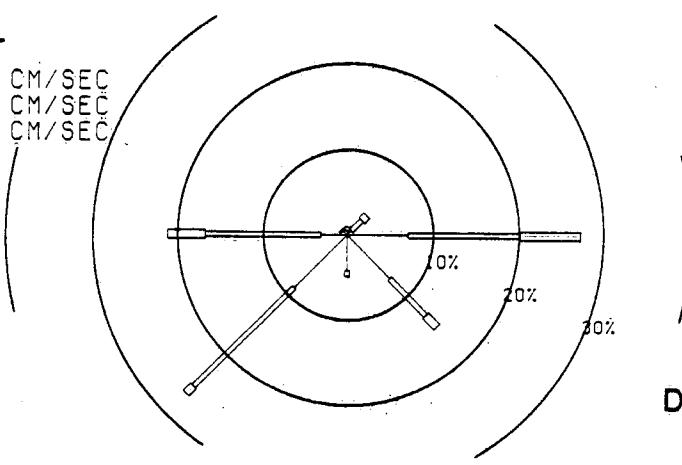
DATE: JAN 1976

MONTHLY SUMMARY: WIND AND CURRENT*

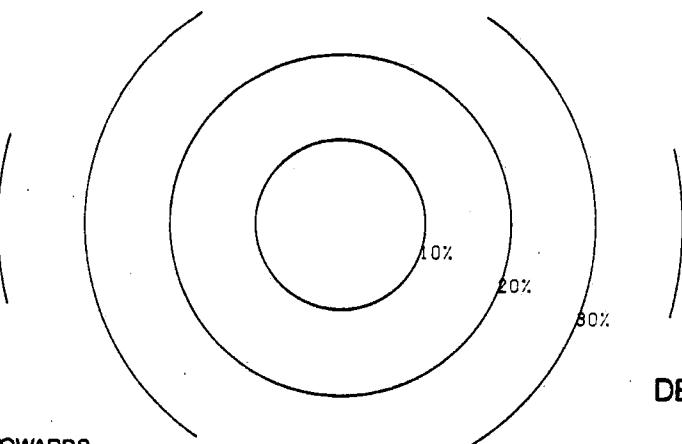
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



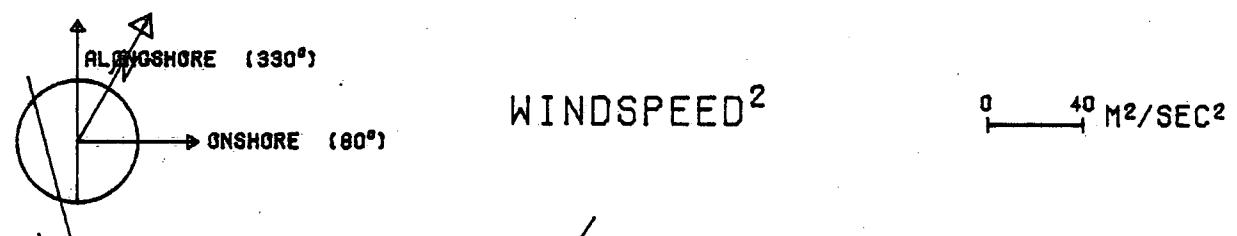
DEPTH: 15 m



DEPTH: m

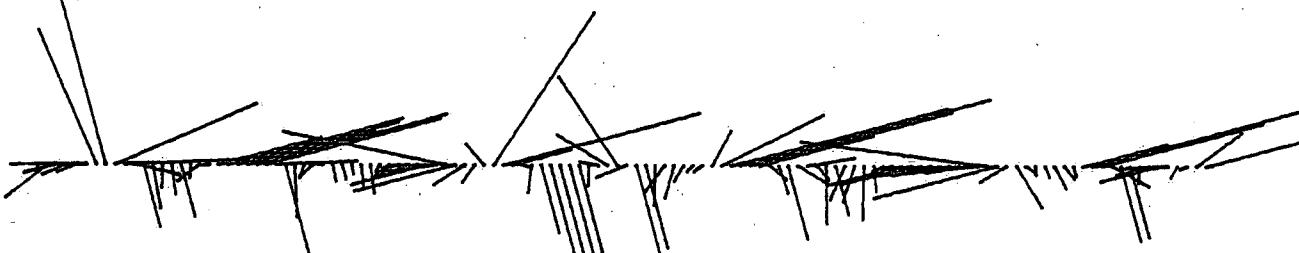
*DIRECTION TOWARDS

MOORING: 75-5C-02 DATE: JAN 1976



WINDSPEED²

0 40 M²/SEC²

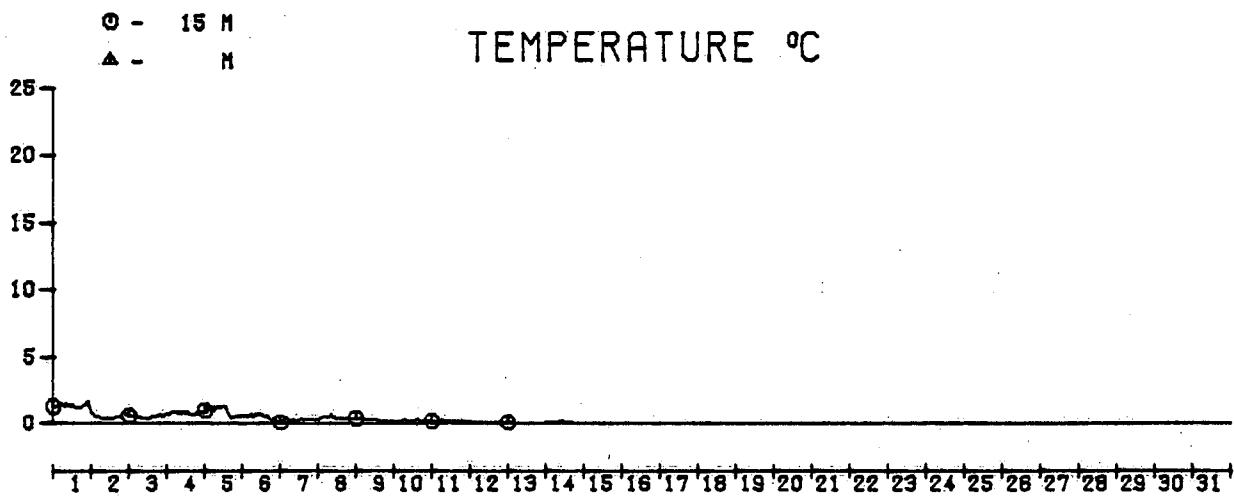


FILTERED CURRENT (0.0 TO 0.05 CPH)

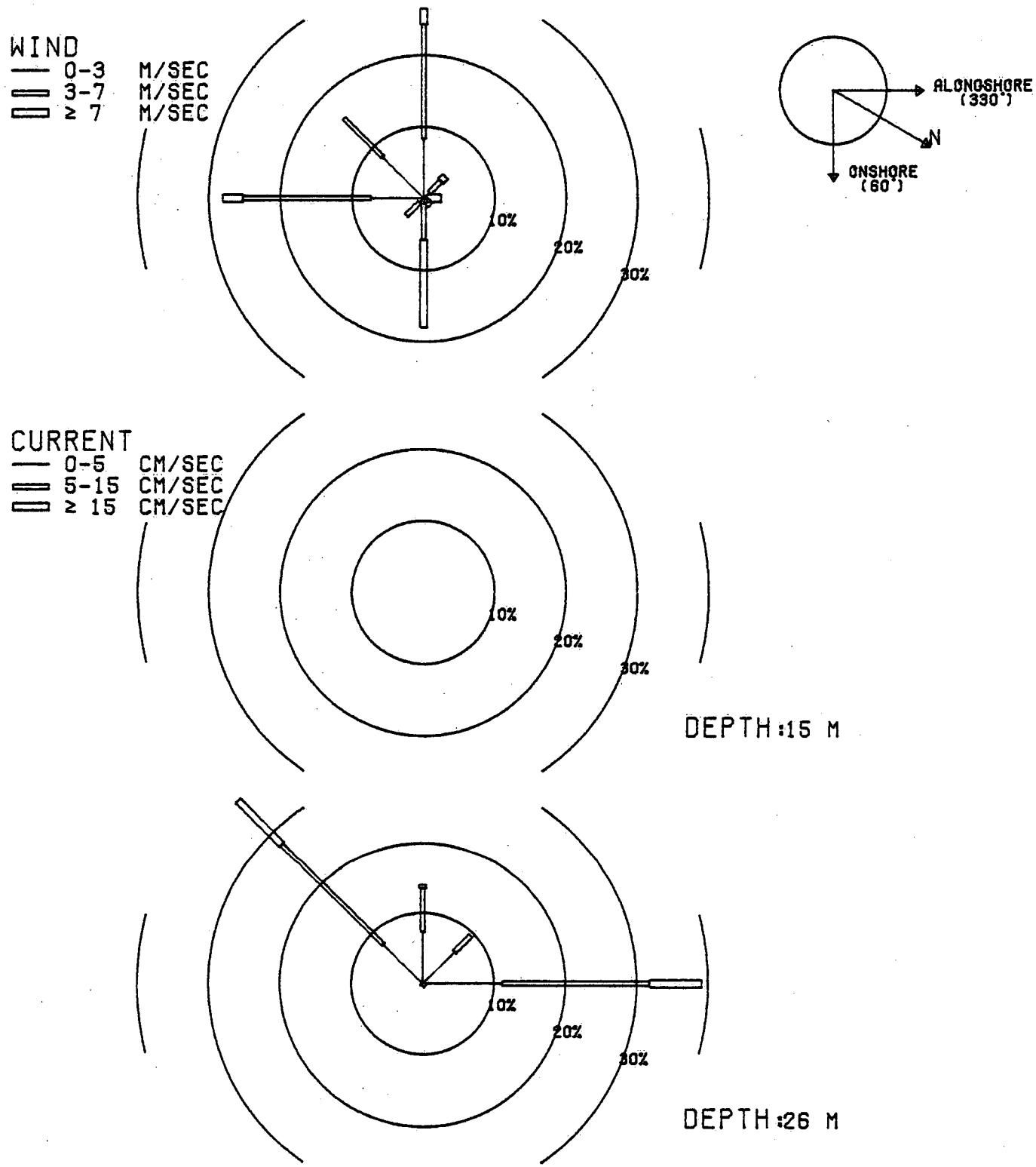
0 10 CM/SEC

DEPTH: 15 M

DEPTH: M

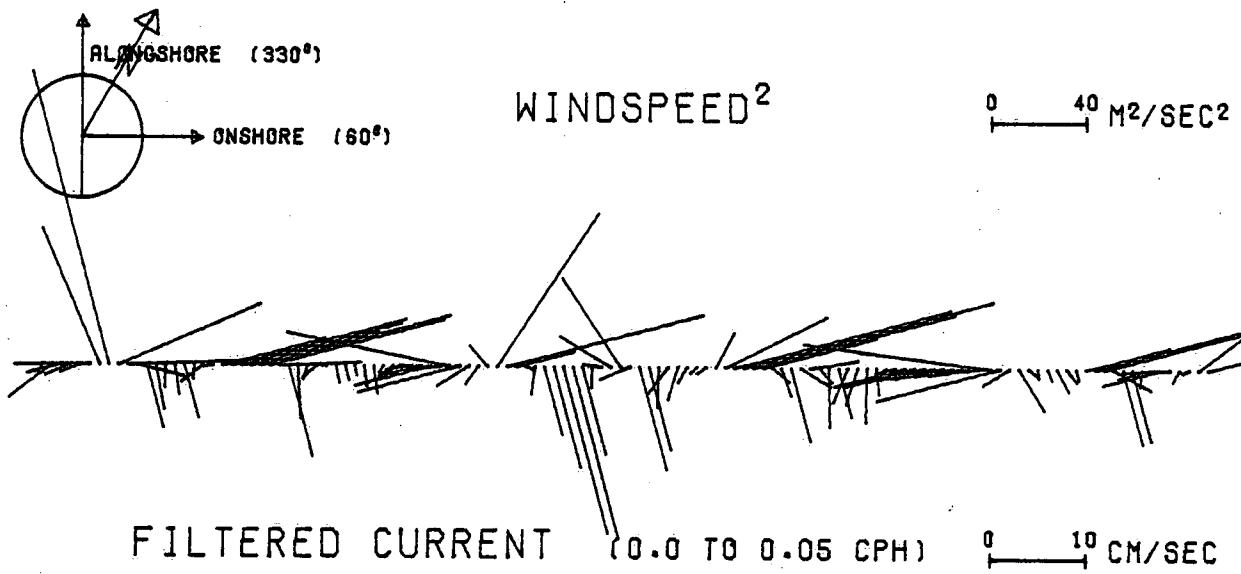


MOORING: 3 DATE: JAN 1976
MONTHLY SUMMARY: WIND AND CURRENT*

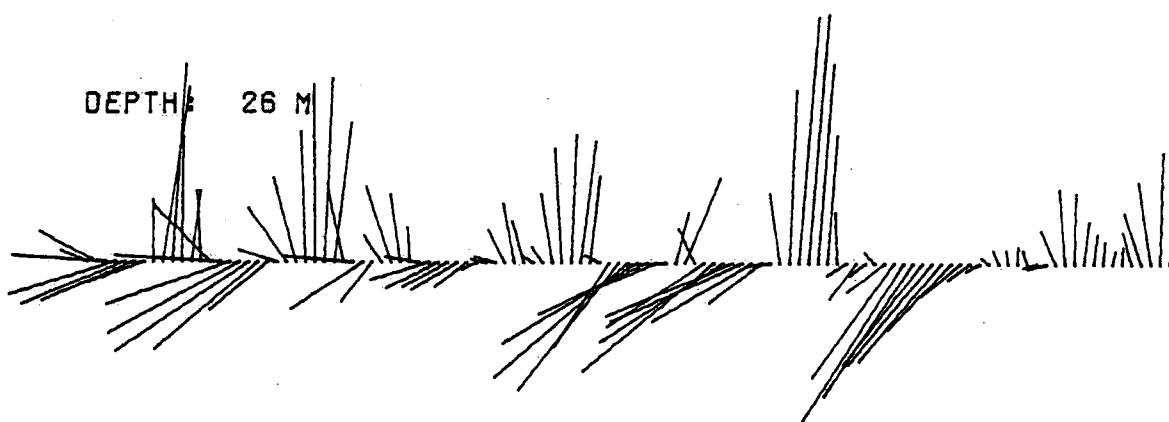


* DIRECTION TOWARDS

MOORING: 75-5C-03 DATE: JAN 1976

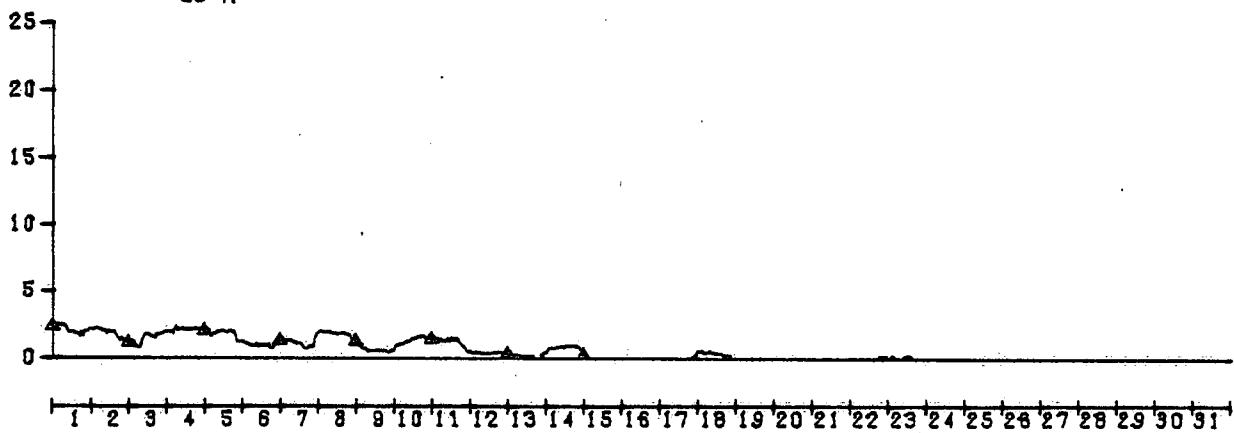


DEPTH: M



◎ - M
△ - 26 M

TEMPERATURE °C

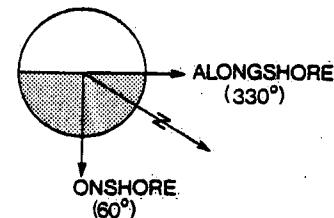
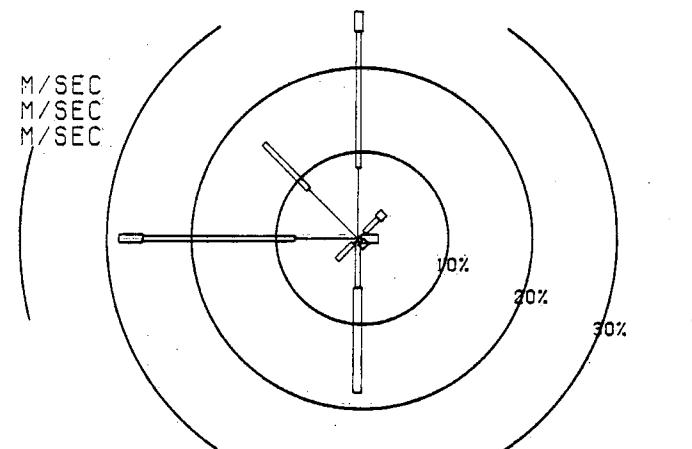


MOORING: 4

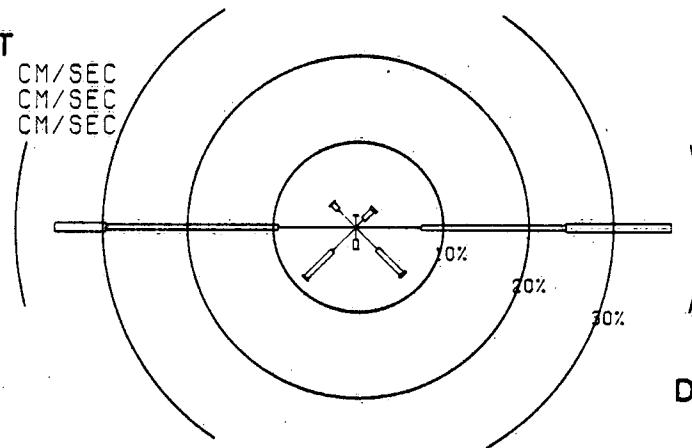
DATE: JAN 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

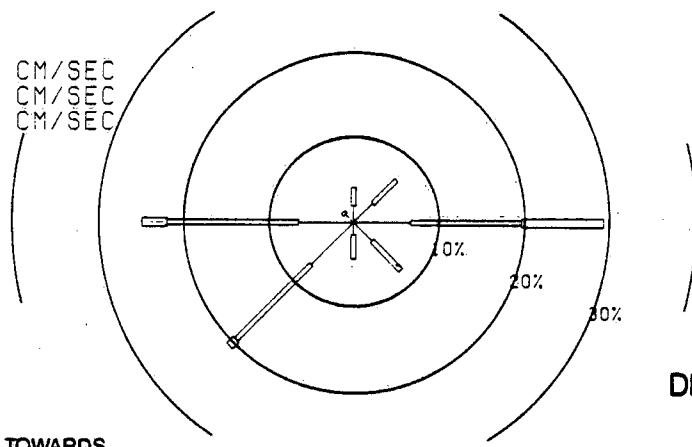


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

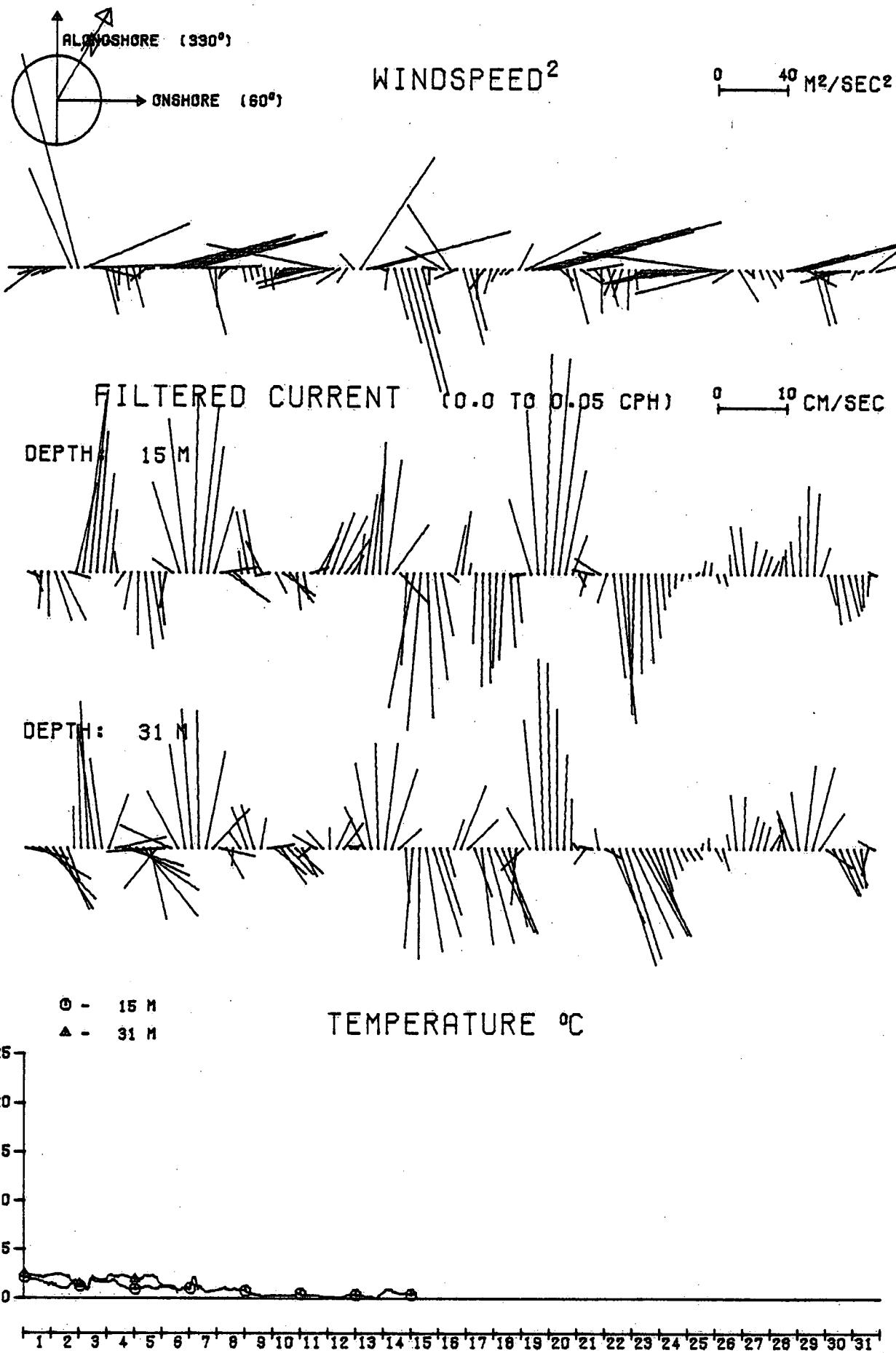
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



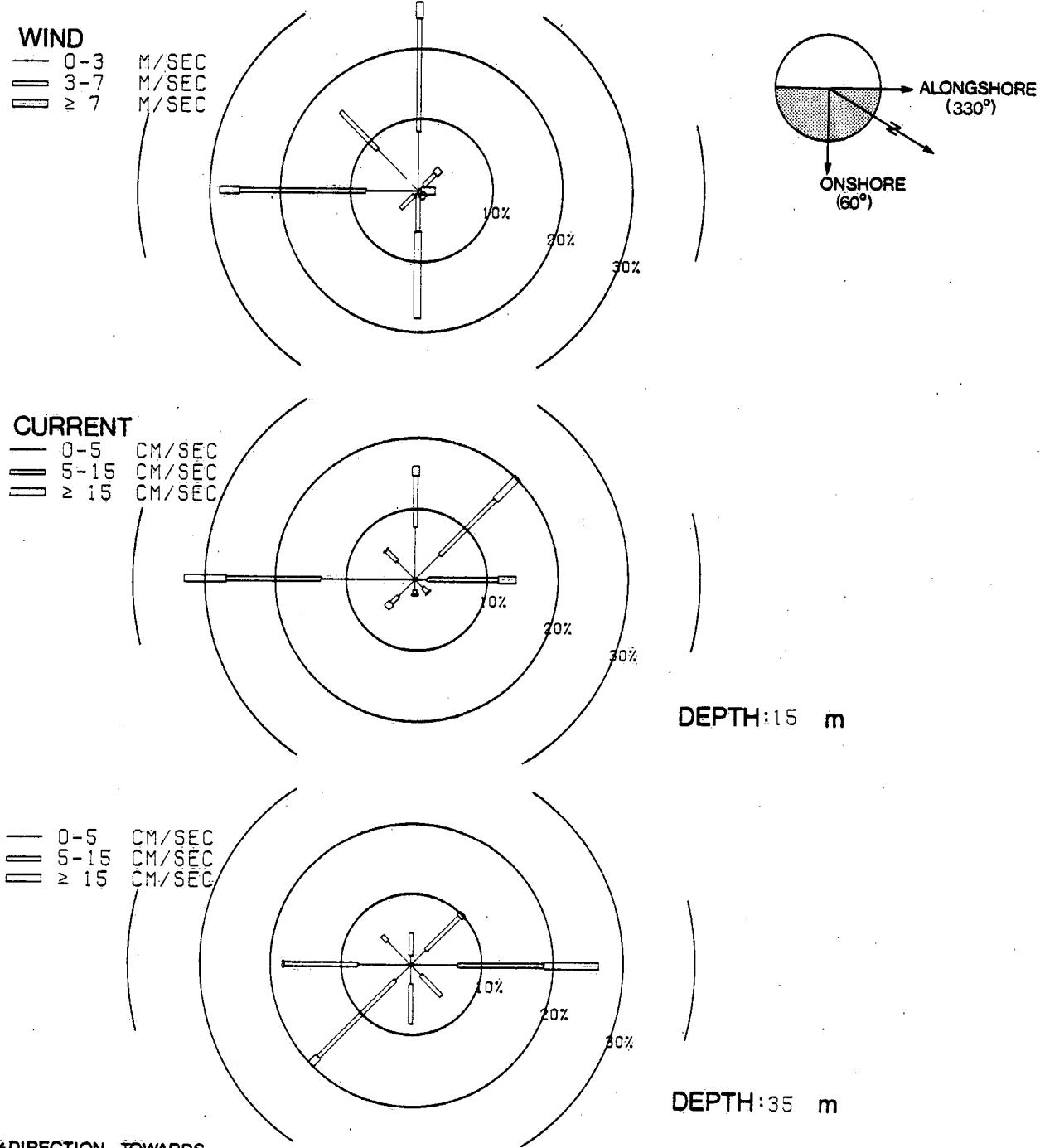
DEPTH: 31 m

*DIRECTION TOWARDS

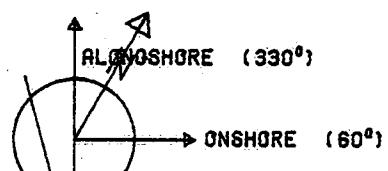
MOORING: 75-5C-04 DATE: JAN 1976



MOORING: 5 DATE: JAN 1976
MONTHLY SUMMARY: WIND AND CURRENT*

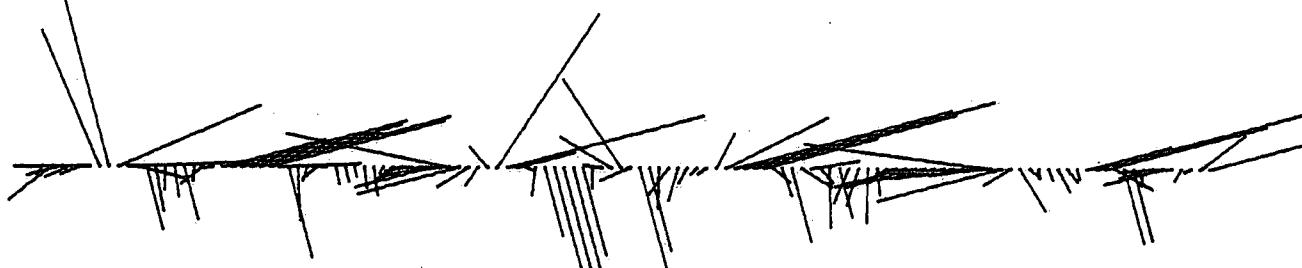


MOORING: 75-5C-05 DATE: JAN 1976



WINDSPEED²

0 40 M²/SEC²

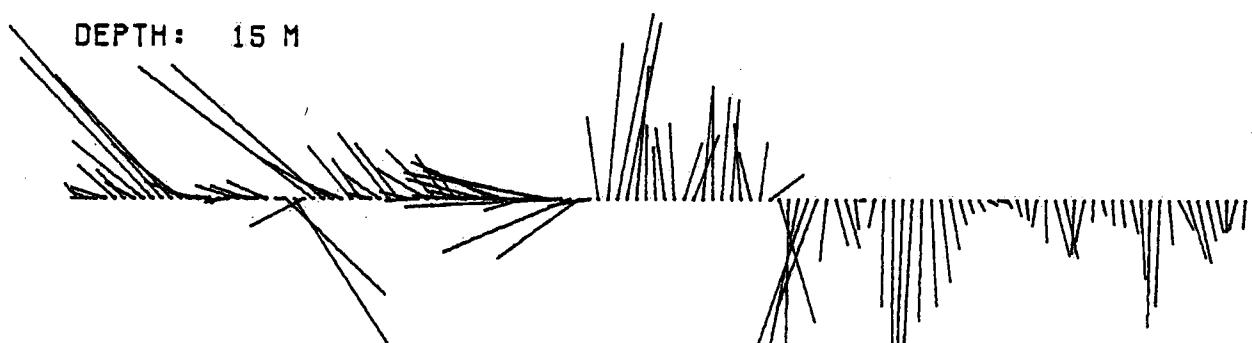


FILTERED CURRENT

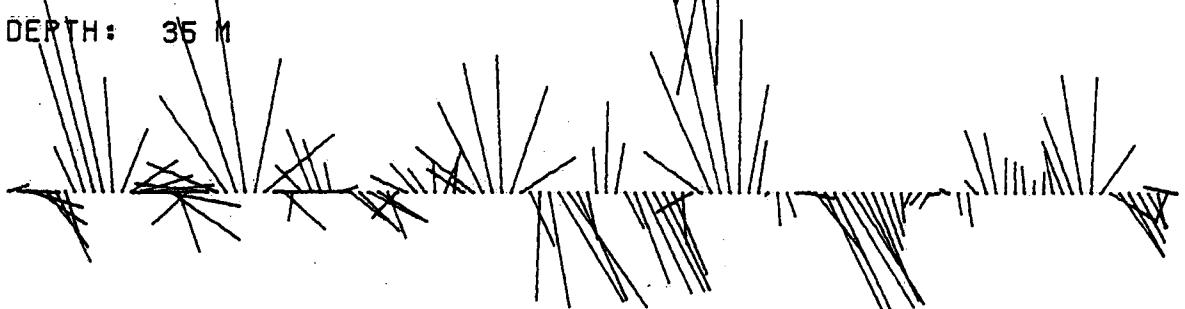
(0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 15 M

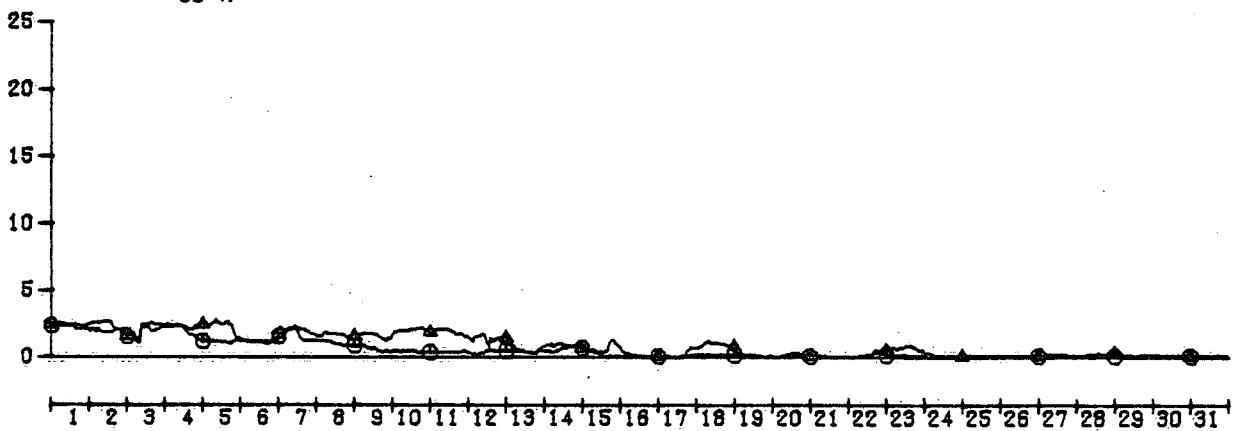


DEPTH: 35 M

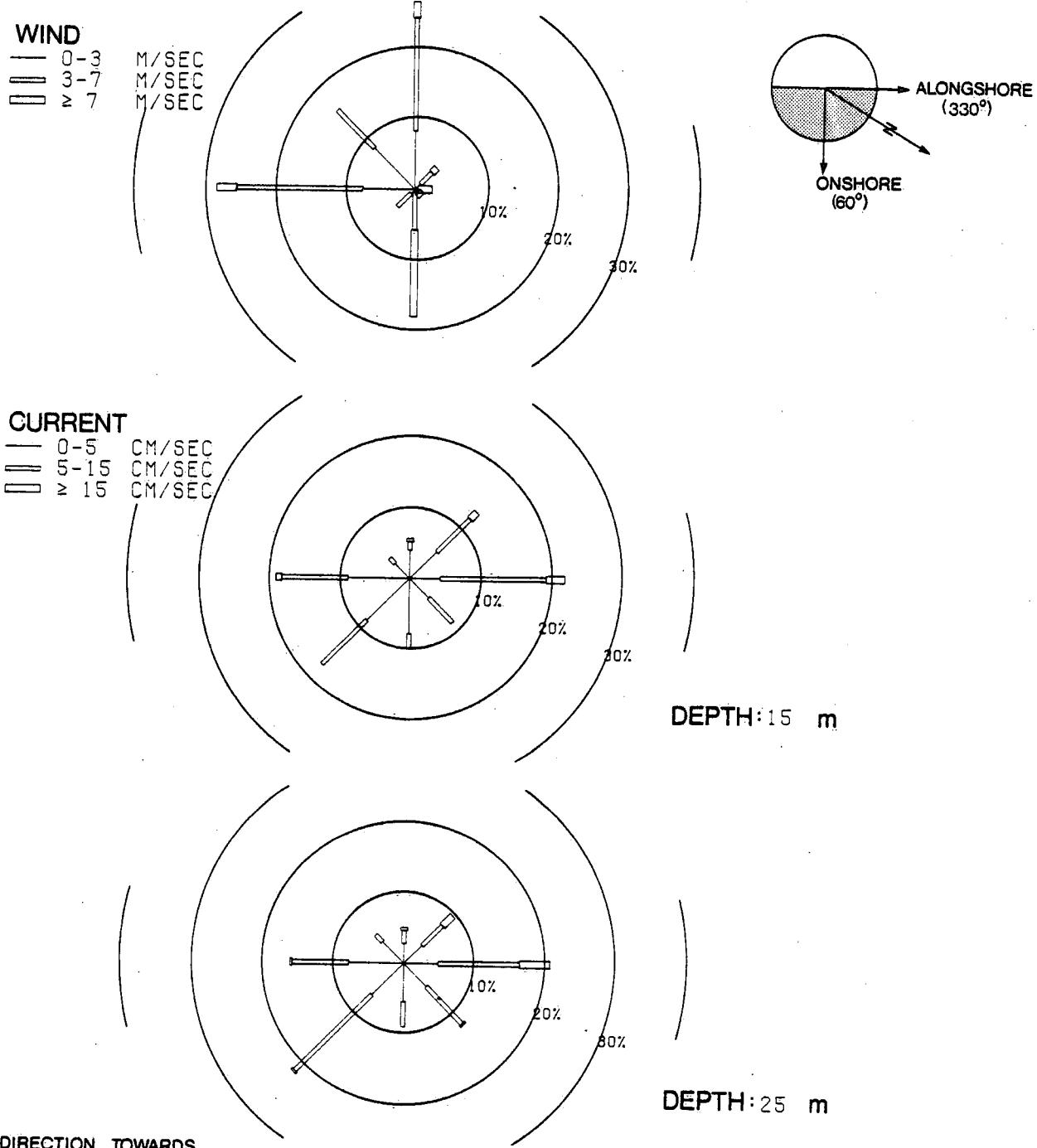


○ - 15 M
△ - 35 M

TEMPERATURE °C

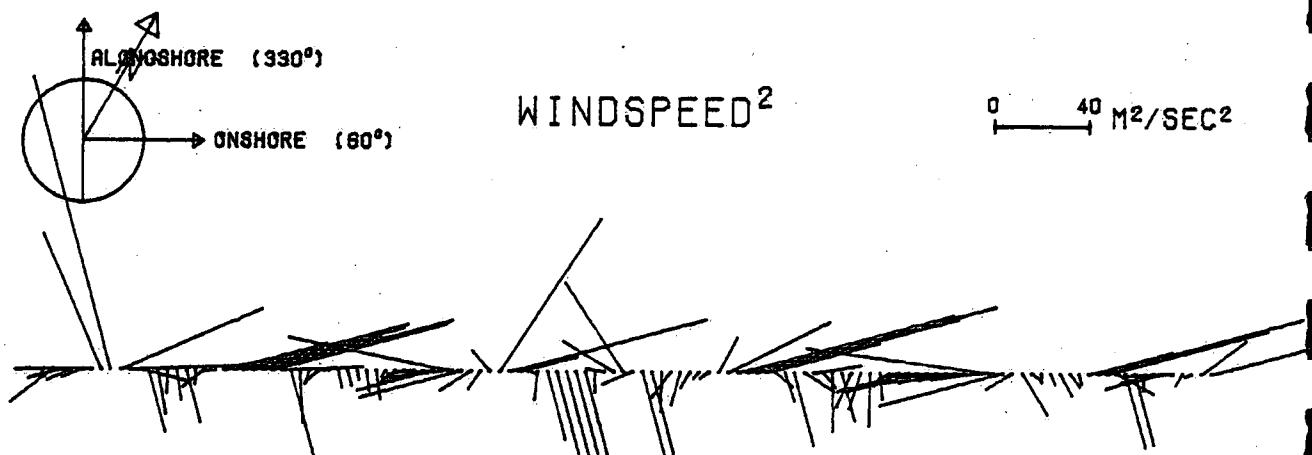


MOORING: 6 DATE: JAN 1976
MONTHLY SUMMARY: WIND AND CURRENT*



*DIRECTION TOWARDS

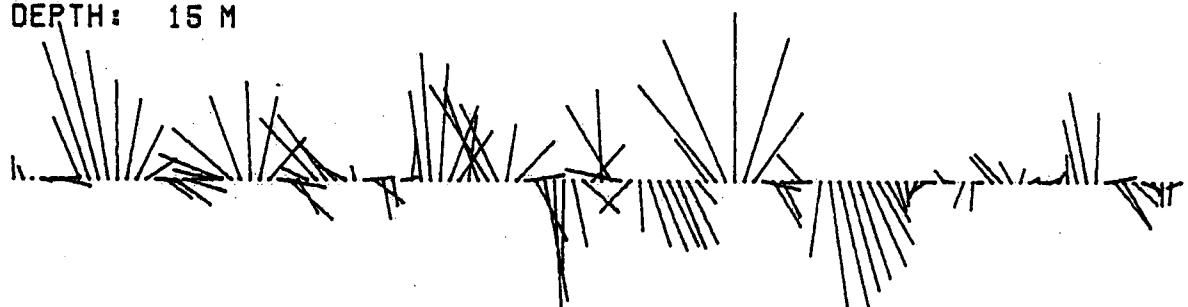
MOORING: 75-5C-06 DATE: JAN 1976



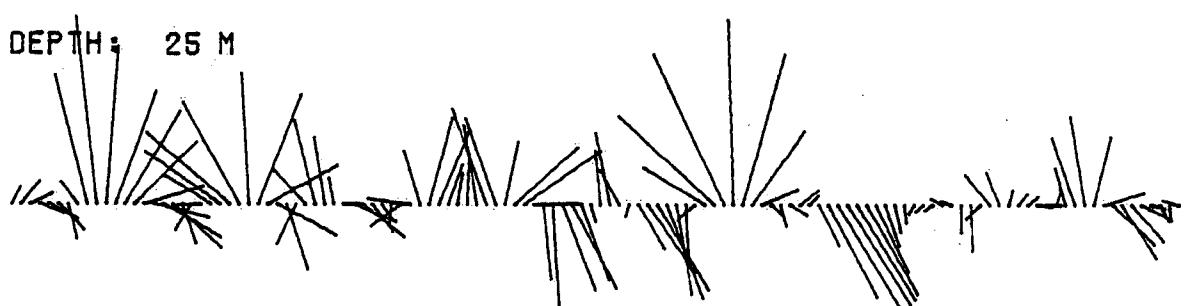
WINDSPEED²

FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M

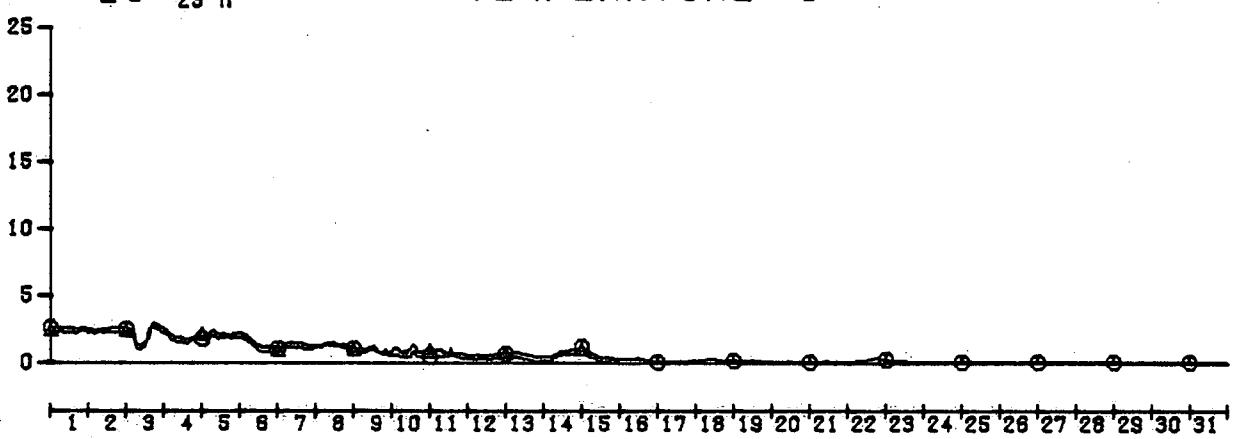


DEPTH: 25 M



○ - 15 M
△ - 25 M

TEMPERATURE °C

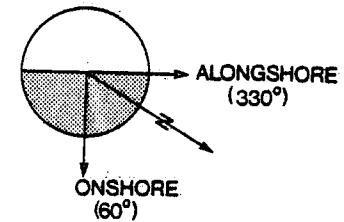
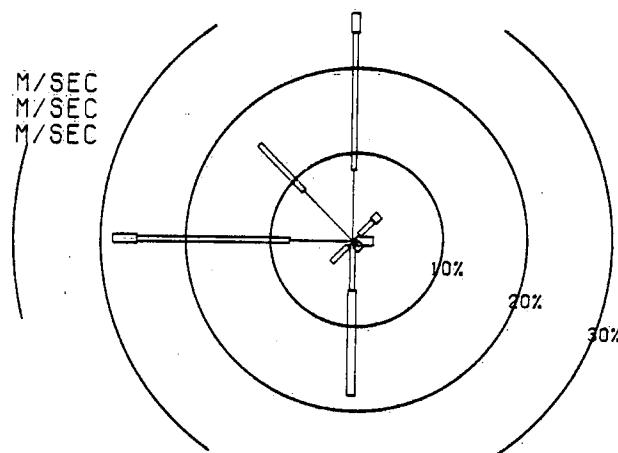


MOORING: 6

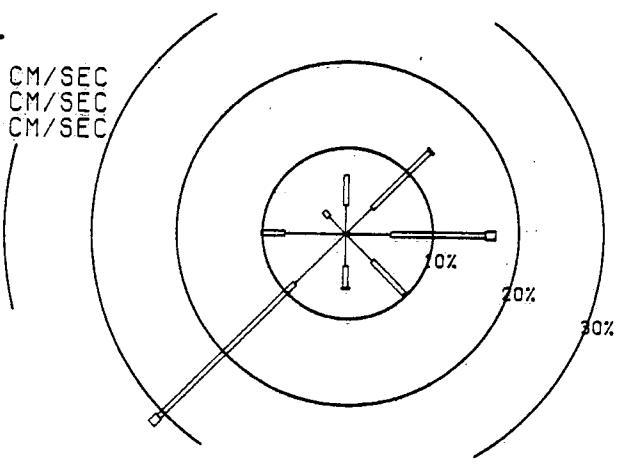
DATE: JAN 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

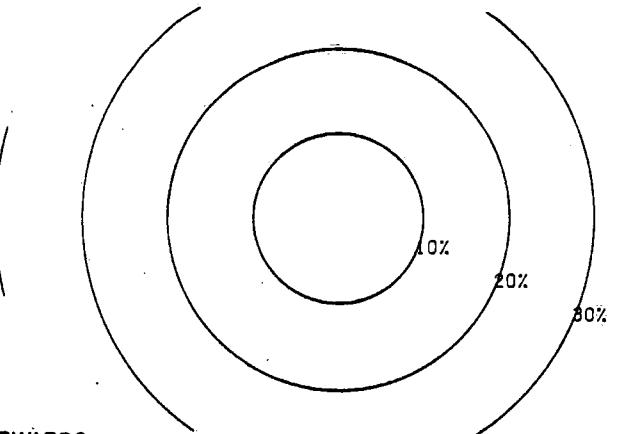


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



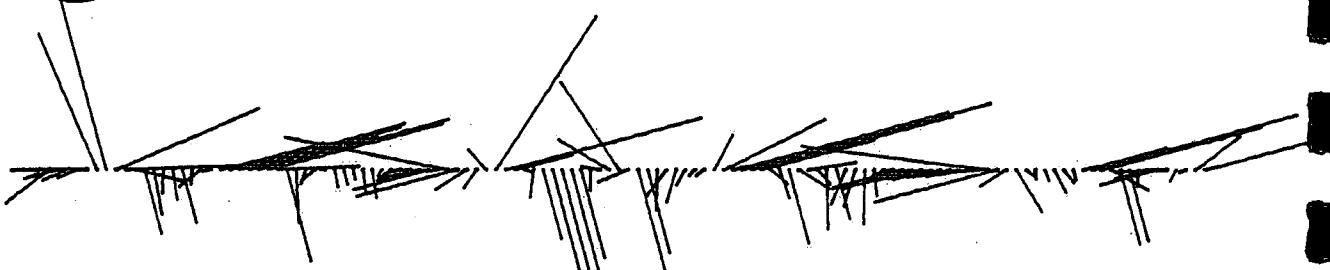
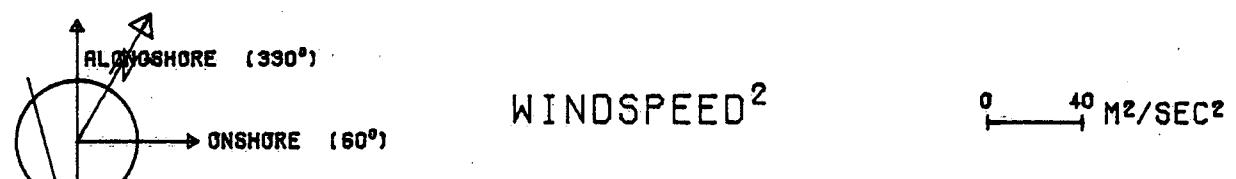
DEPTH: 43 m

*DIRECTION TOWARDS

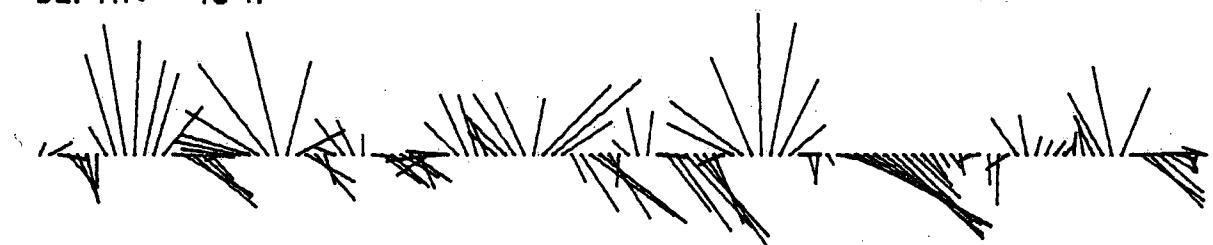


DEPTH: m

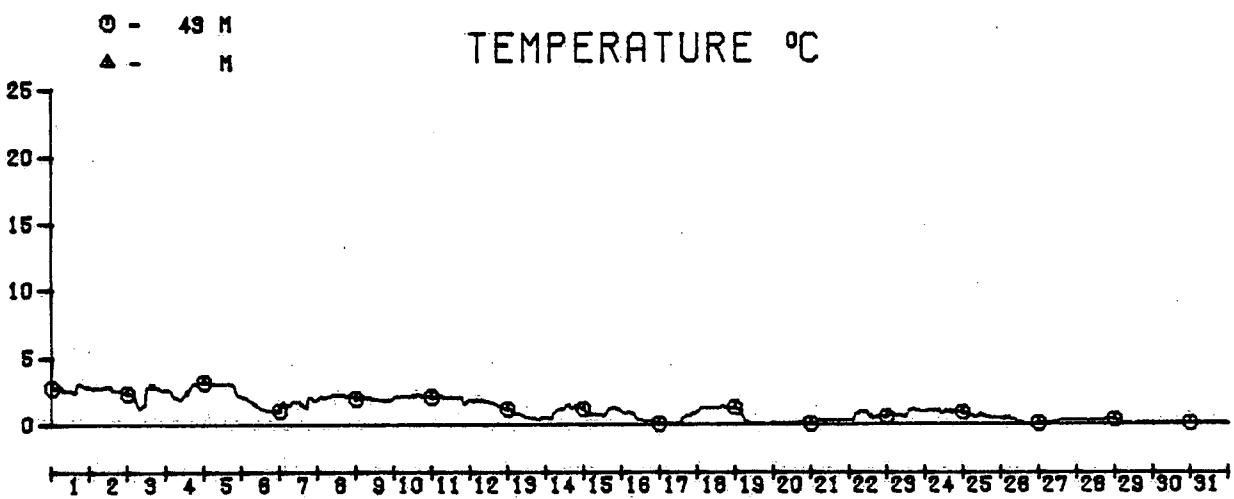
MOORING: 76-5C-06 DATE: JAN 1976



DEPTH: 43 M



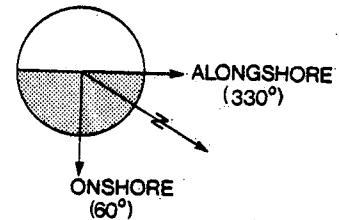
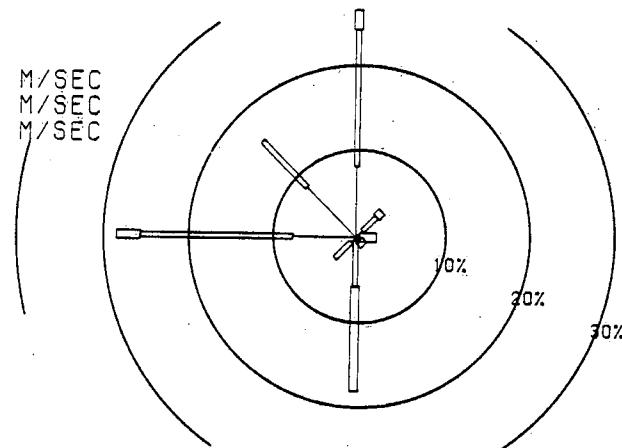
DEPTH: M



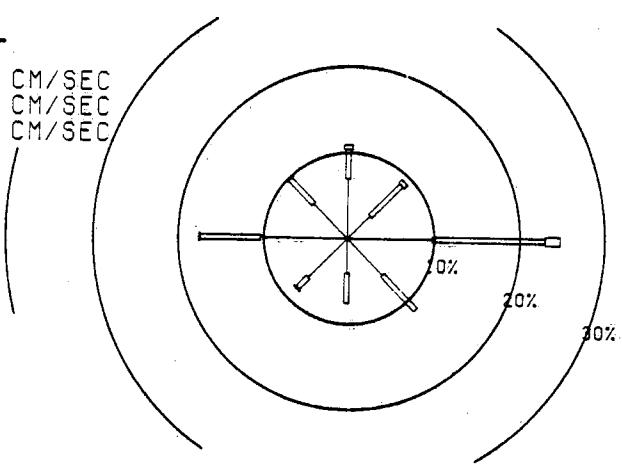
MOORING: 7 DATE: JAN 1976

MONTHLY SUMMARY: WIND AND CURRENT*

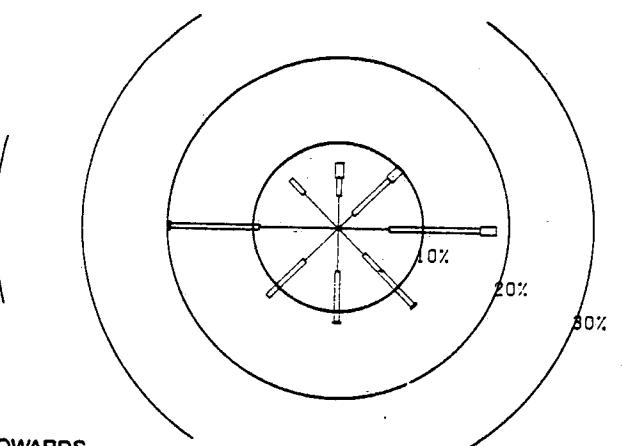
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



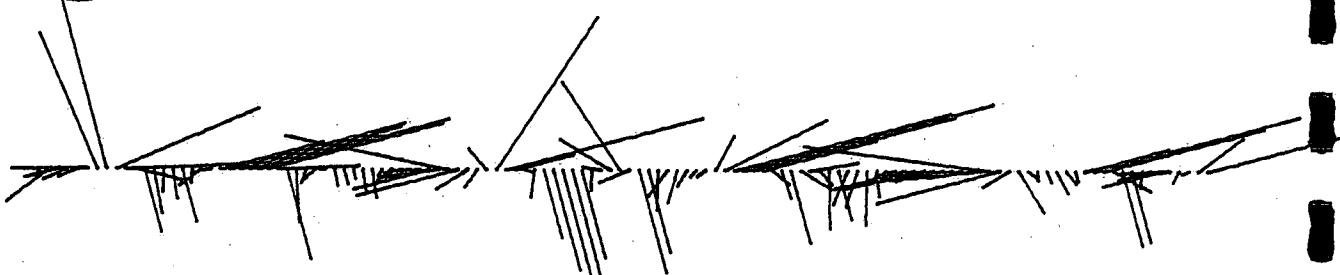
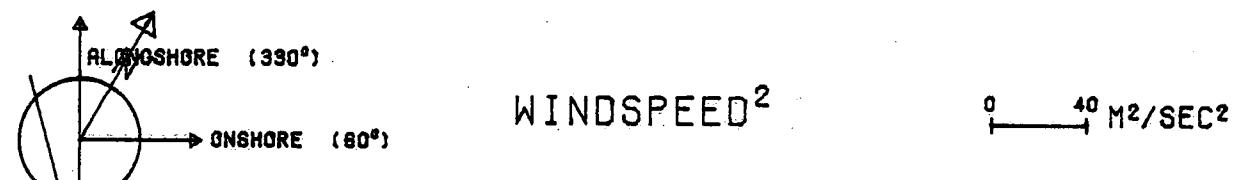
DEPTH: 15 m



DEPTH: 25 m

*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: JAN 1976

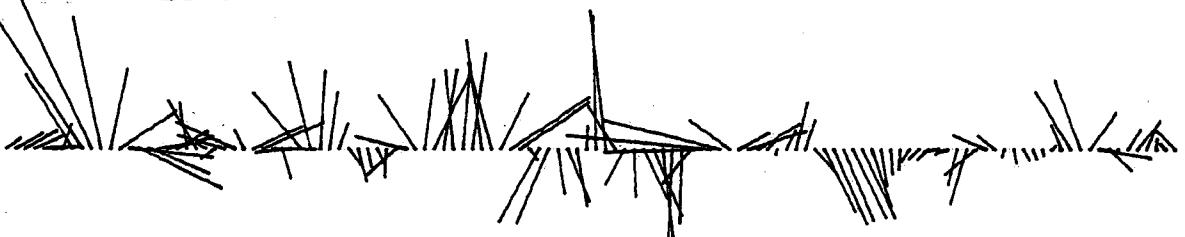


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M

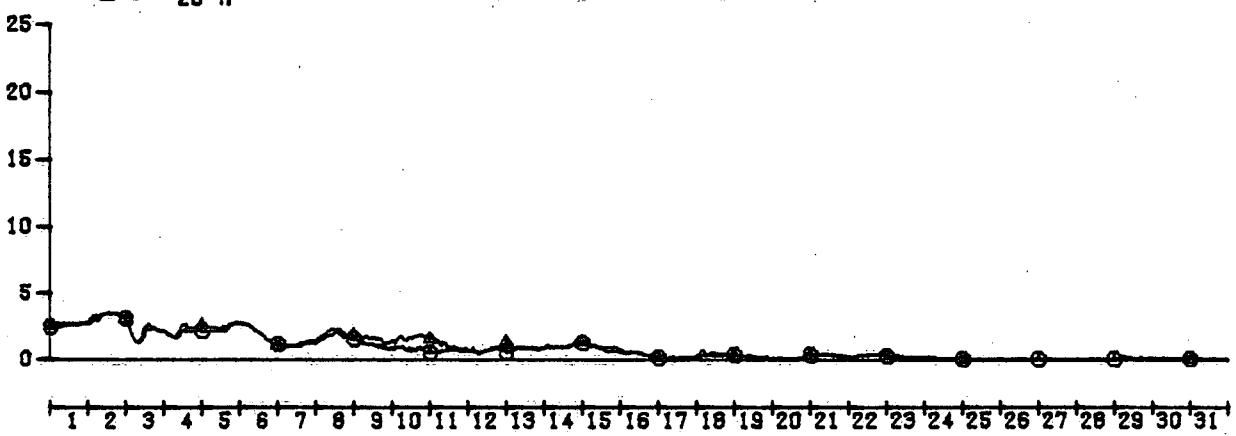


DEPTH: 25 M



Θ - 15 M
Δ - 25 M

TEMPERATURE °C

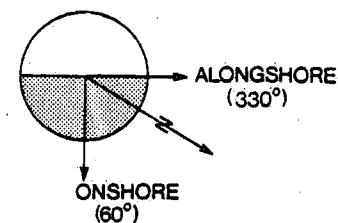
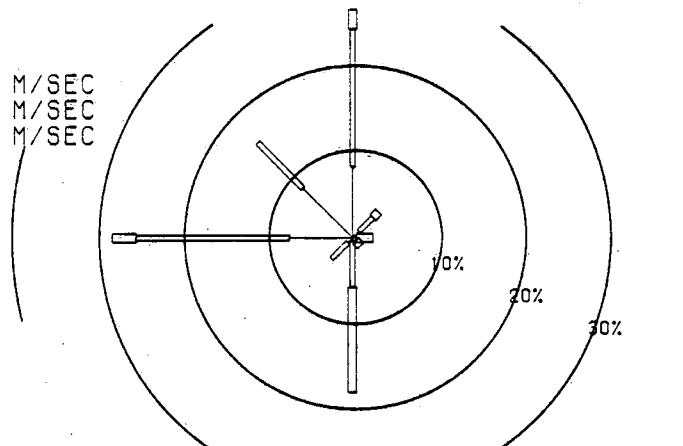


MOORING: 7

DATE: JAN 1976

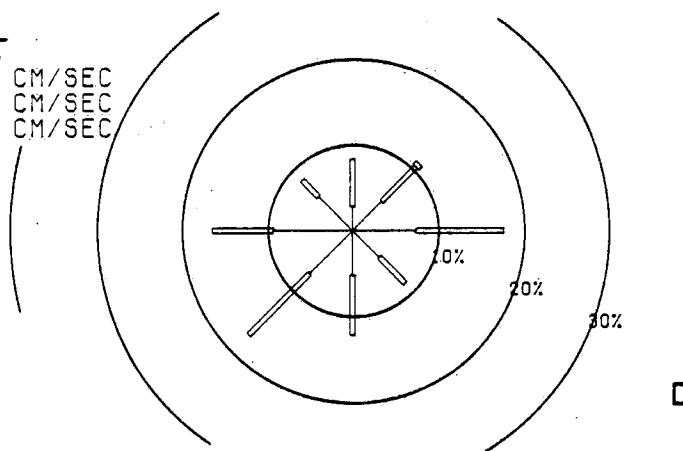
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

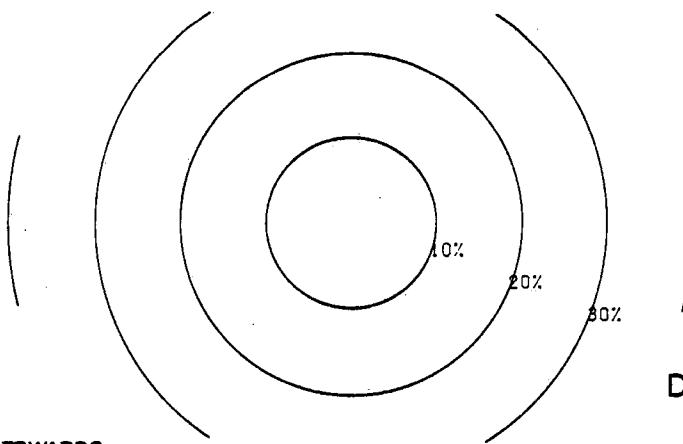


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



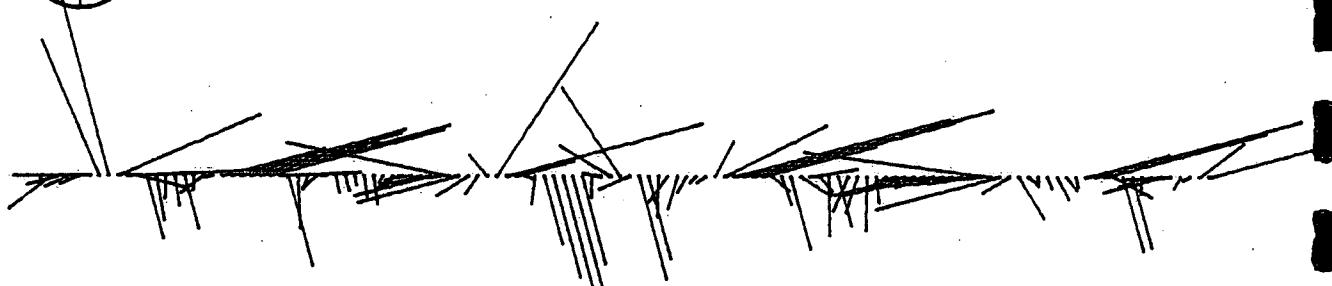
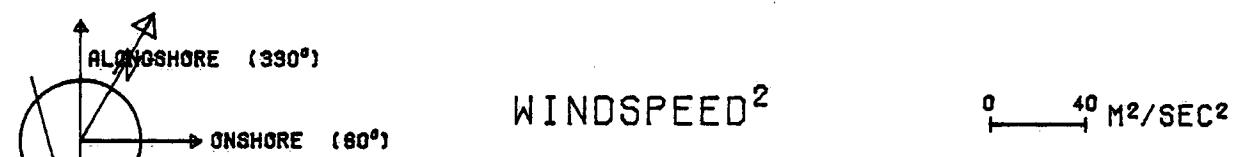
DEPTH: 44 m



DEPTH: m

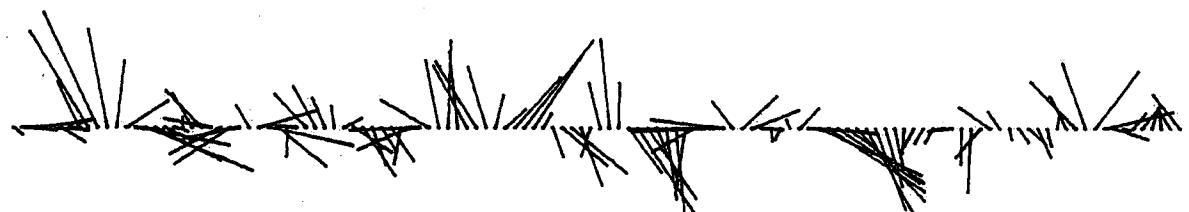
*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: JAN 1976



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

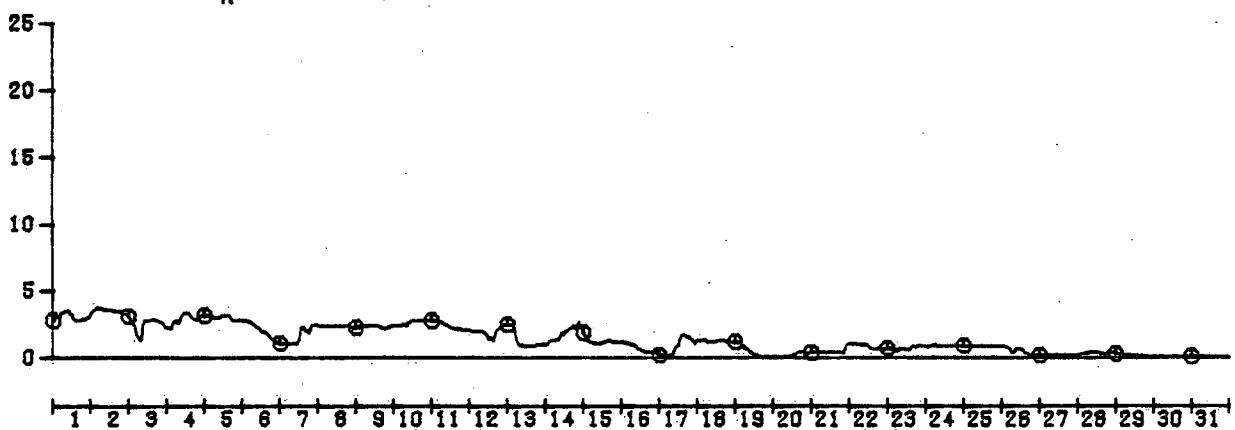
DEPTH: 44 M



DEPTH: M

○ - 44 M
△ - M

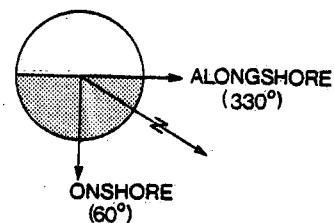
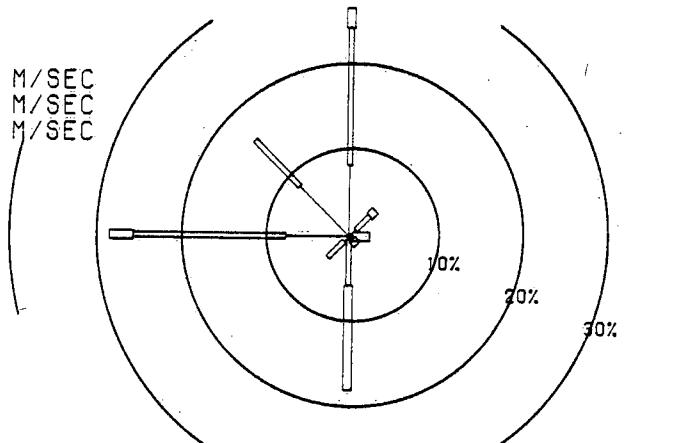
TEMPERATURE °C



MOORING: 8 DATE: JAN 1976

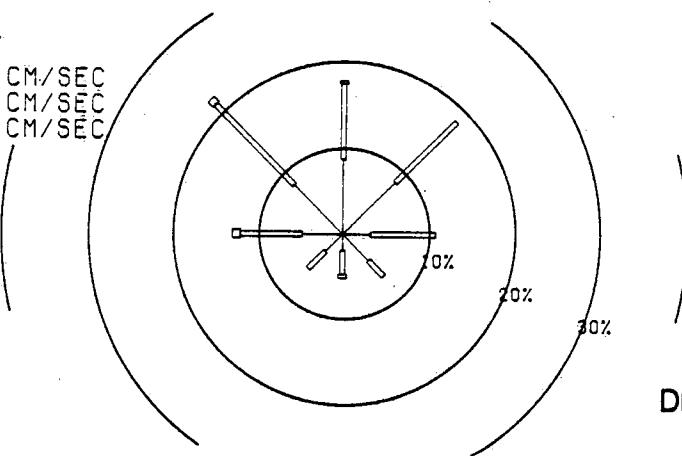
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



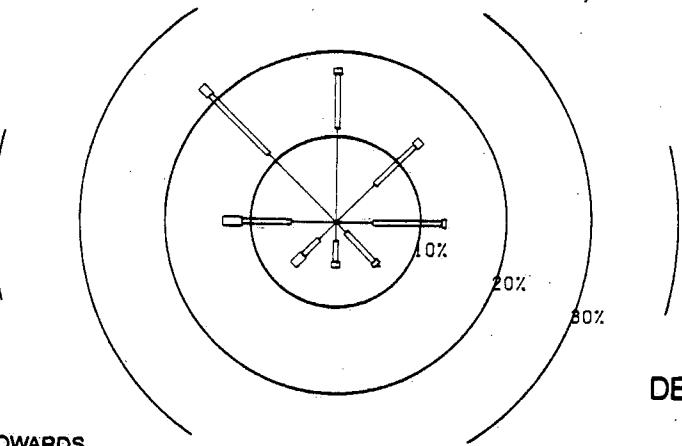
CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



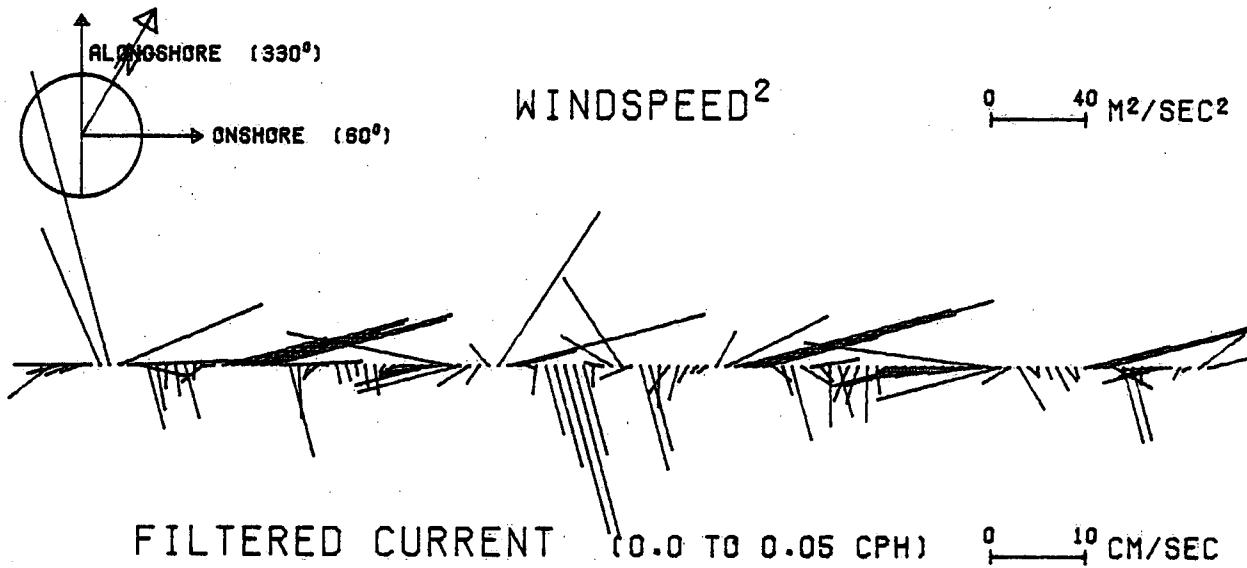
DEPTH: 15 m

*DIRECTION TOWARDS

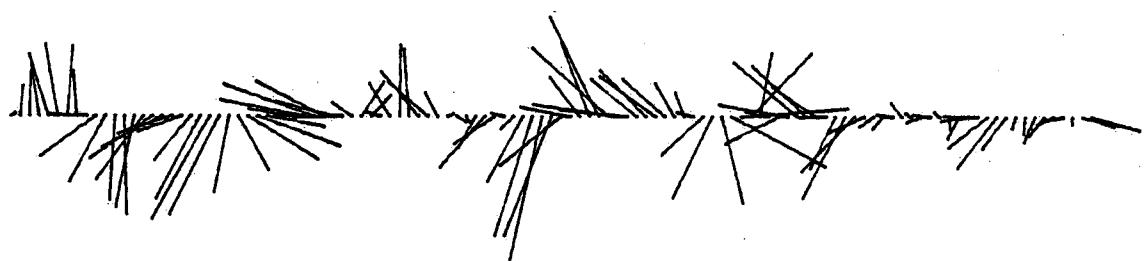


DEPTH: 25 m

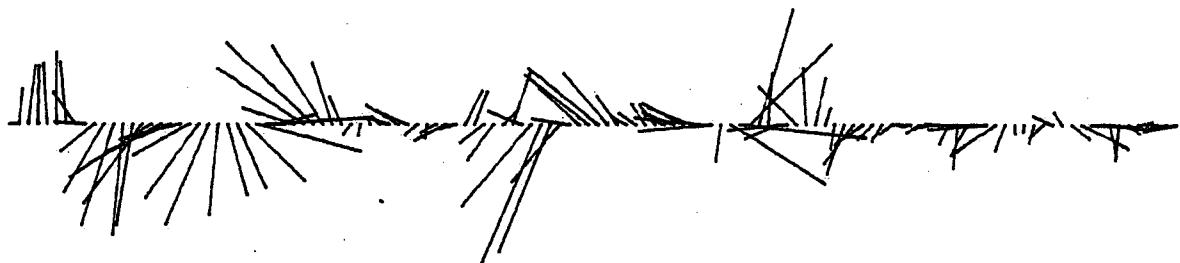
MOORING: 75-5C-08 DATE: JAN 1976



DEPTH: 15 M

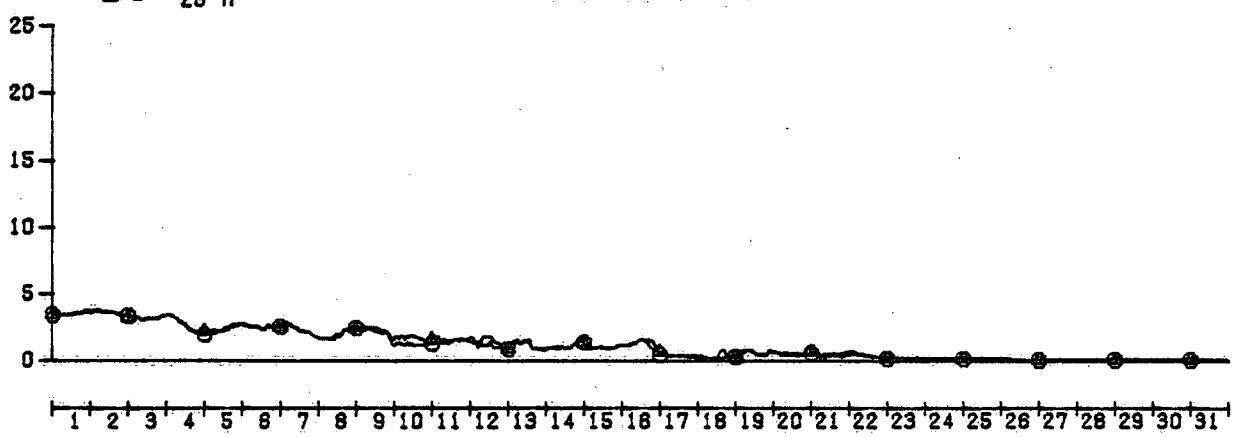


DEPTH: 25 M



○ - 15 M
△ - 25 M

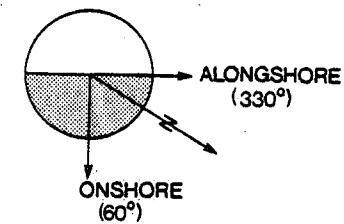
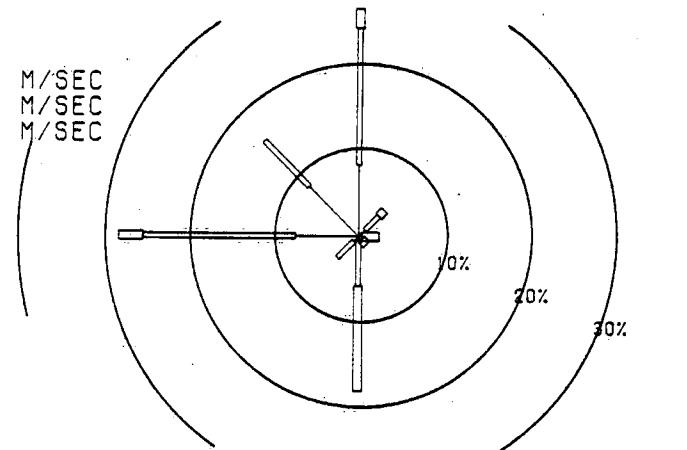
TEMPERATURE °C



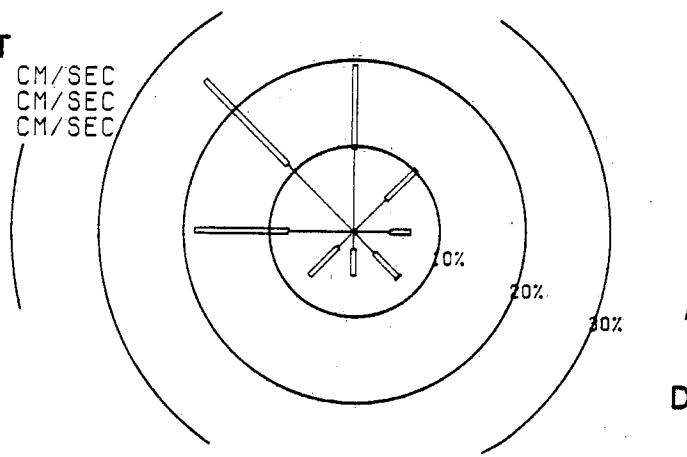
MOORING: 8 DATE: JAN 1976

MONTHLY SUMMARY: WIND AND CURRENT*

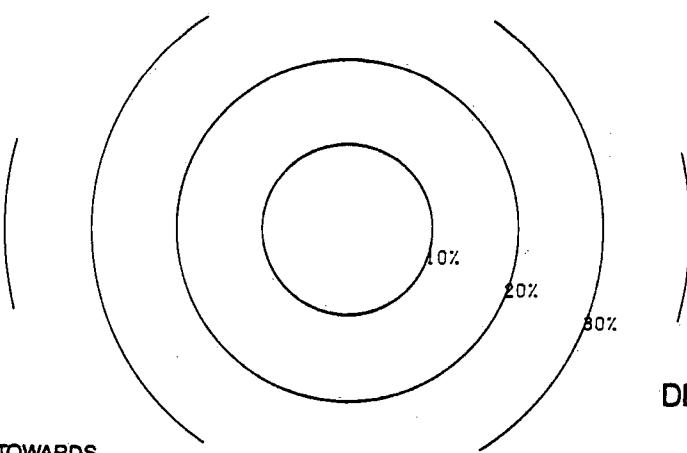
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



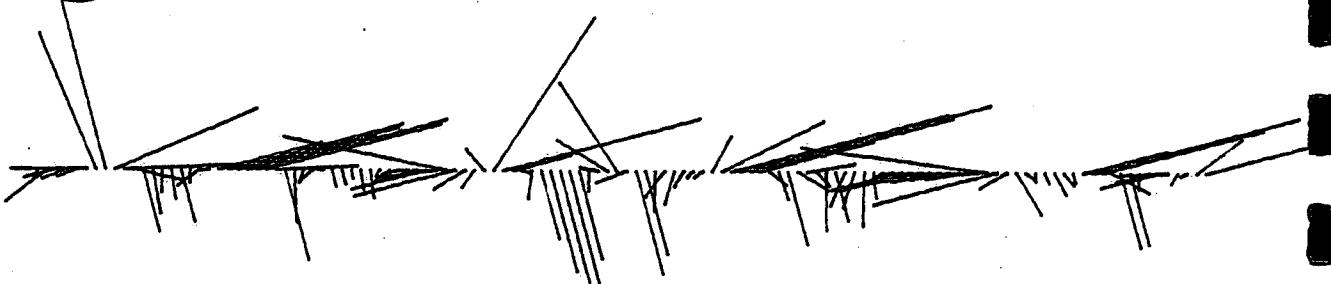
DEPTH: 59 m



DEPTH: m

*DIRECTION TOWARDS

MOORING: 75-5C-08 DATE: JAN 1976



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

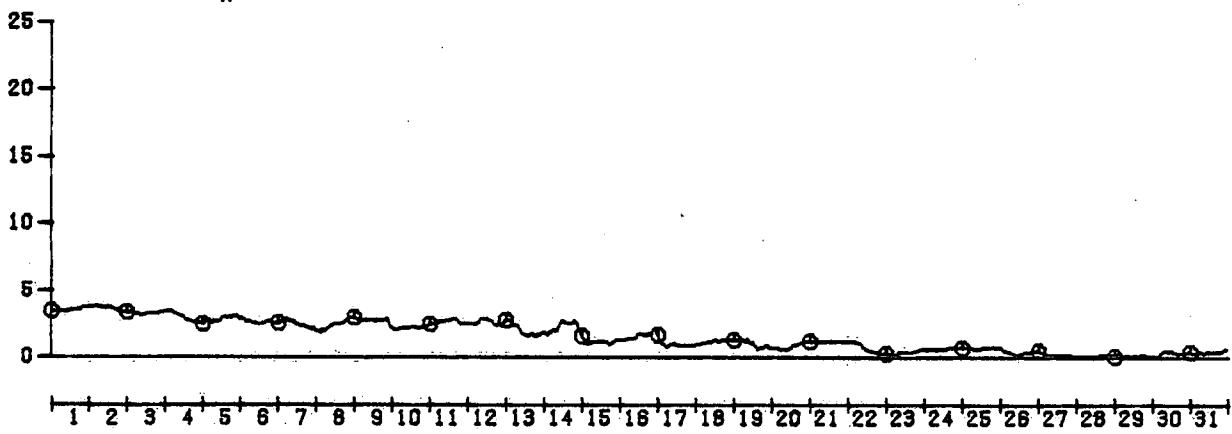
DEPTH: 59 M



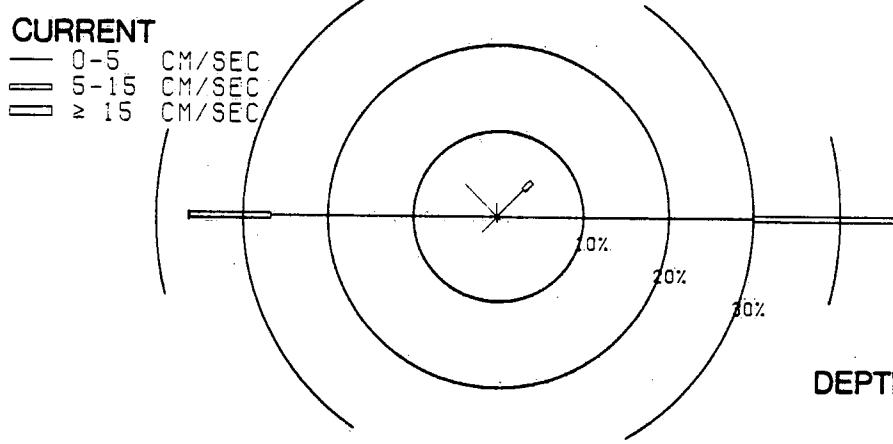
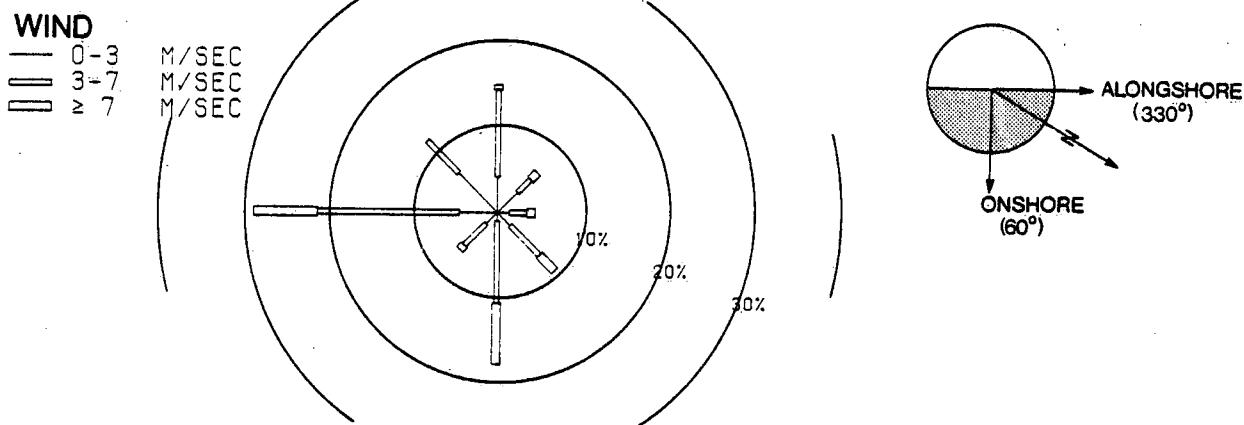
DEPTH: M

○ - 59 M
△ - M

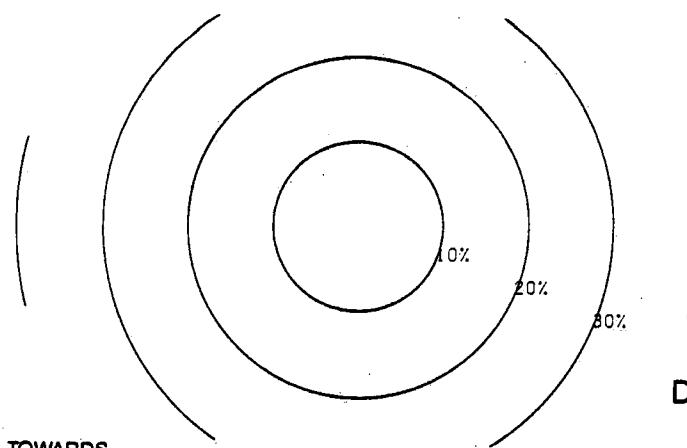
TEMPERATURE °C



MOORING: 1 DATE: FEB 1976
MONTHLY SUMMARY: WIND AND CURRENT*



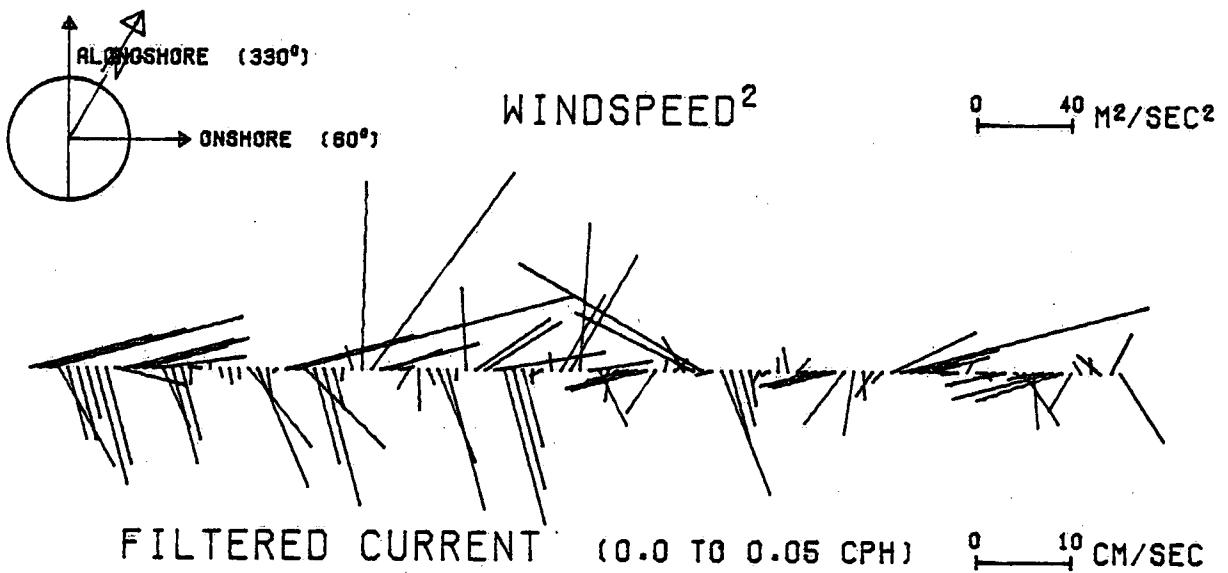
DEPTH: 15 m



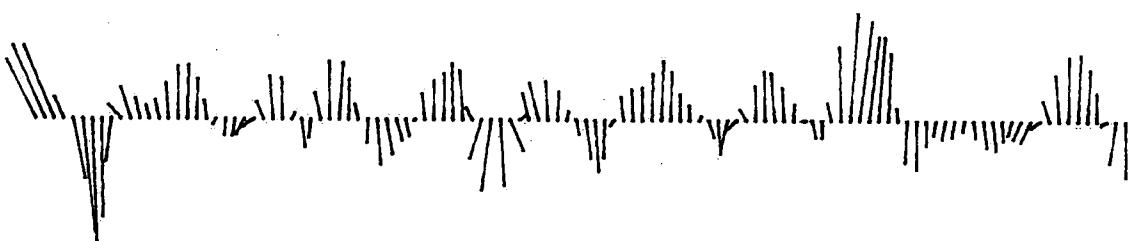
DEPTH: m

*DIRECTION TOWARDS

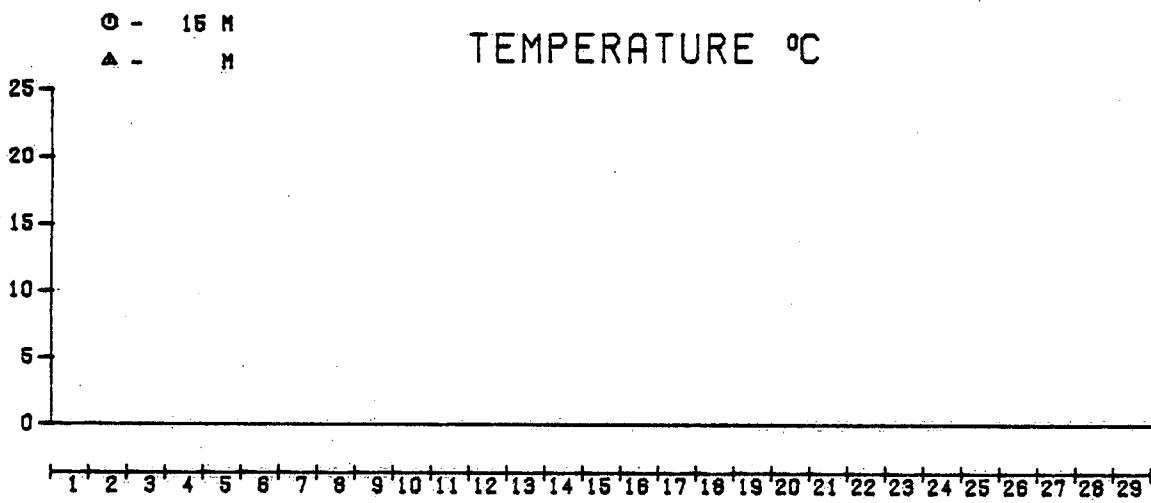
MOORING: 75-5C-01 DATE: FEB 1976



DEPTH: 15 M



DEPTH: M

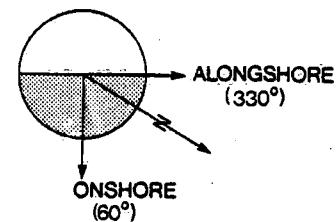
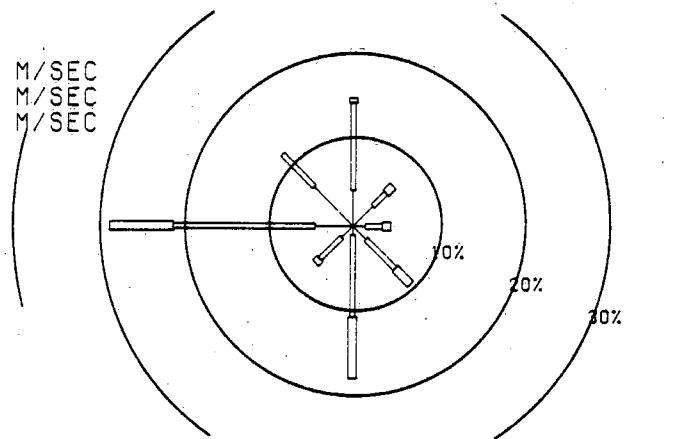


MOORING: 2

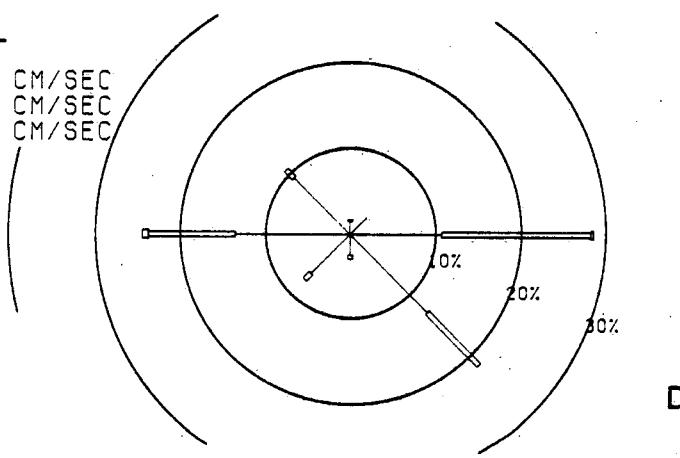
DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

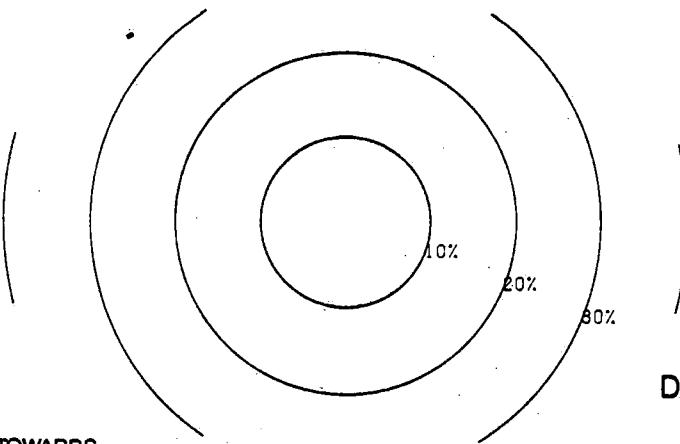


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



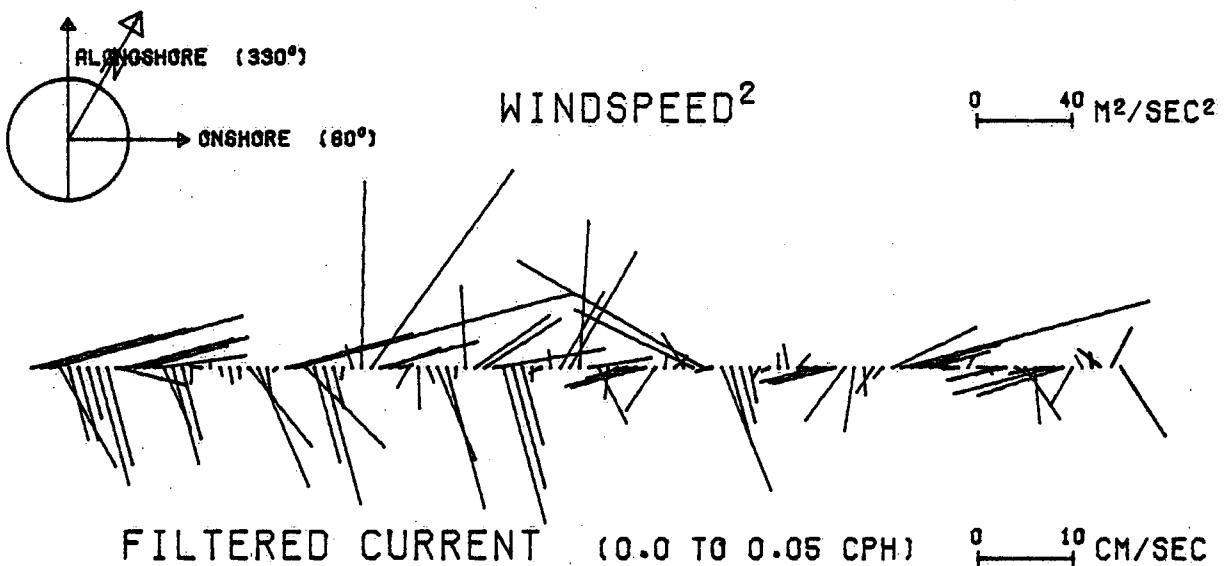
DEPTH: 15 m

*DIRECTION TOWARDS

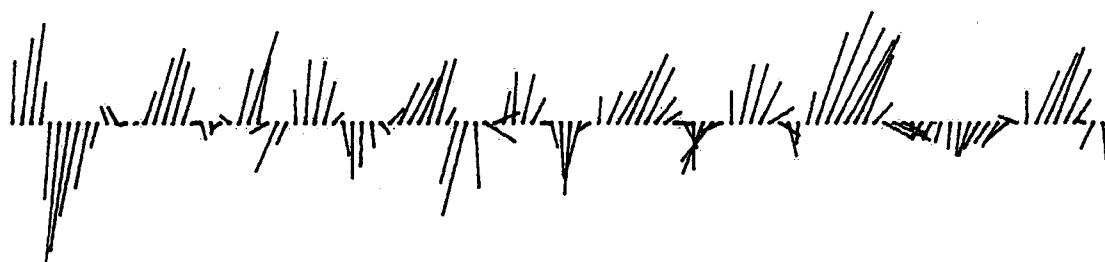


DEPTH: m

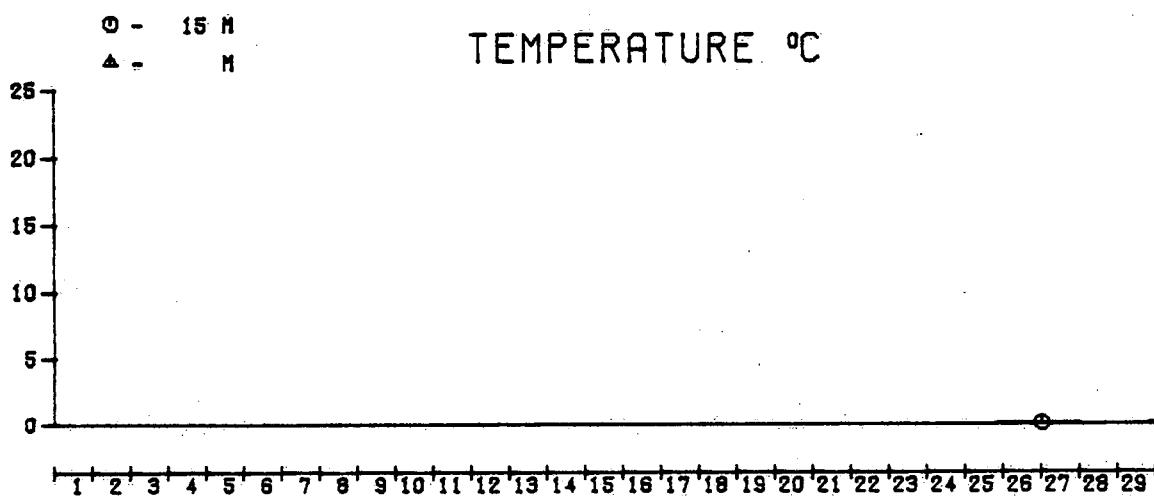
MOORING: 75-5C-02 DATE: FEB 1976



DEPTH: 15 M



DEPTH: M

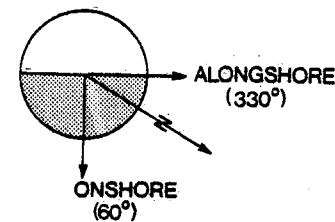
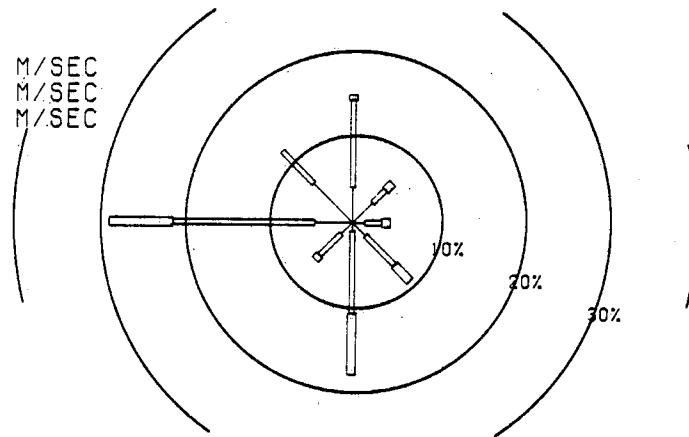


MOORING: 4

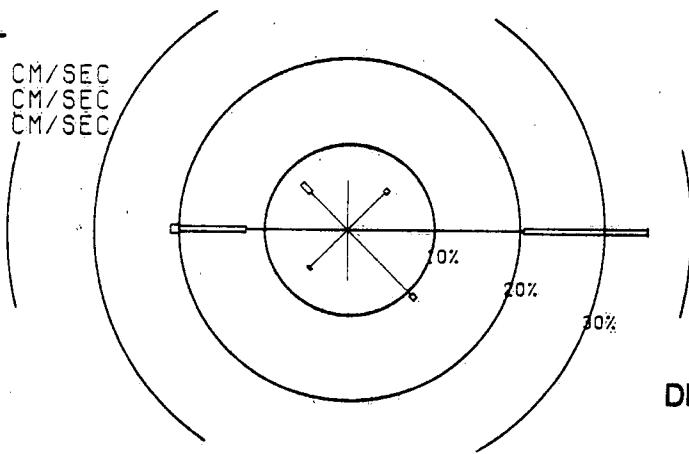
DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

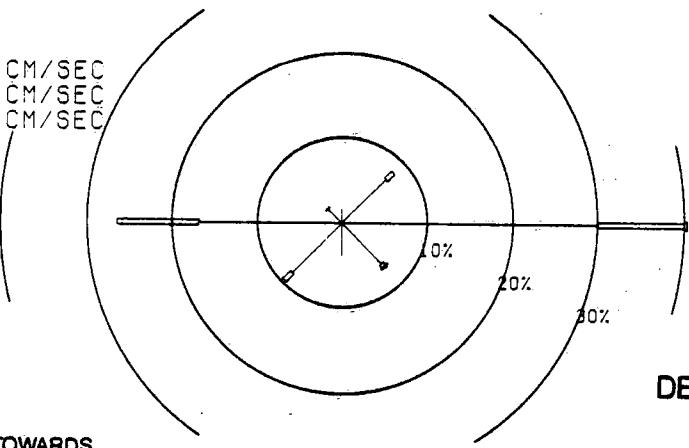


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

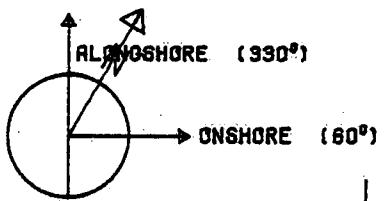
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 31 m

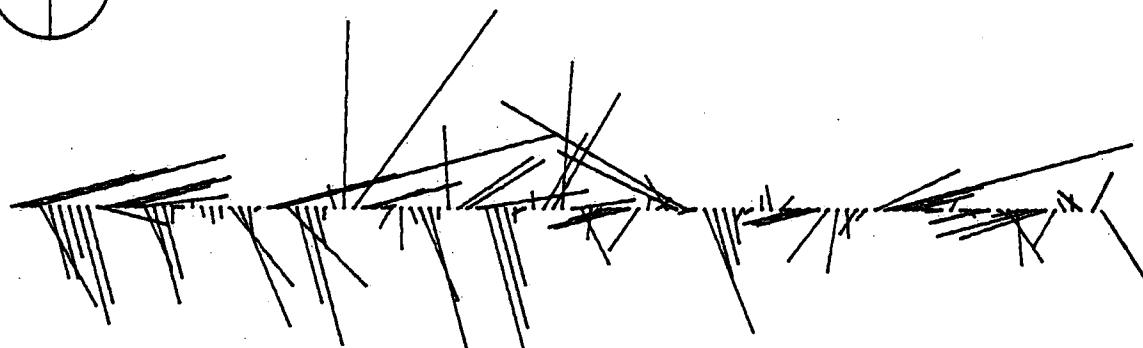
*DIRECTION TOWARDS

MOORING: 75-5C-04 DATE: FEB 1976



WINDSPEED²

0 M^2/SEC^2

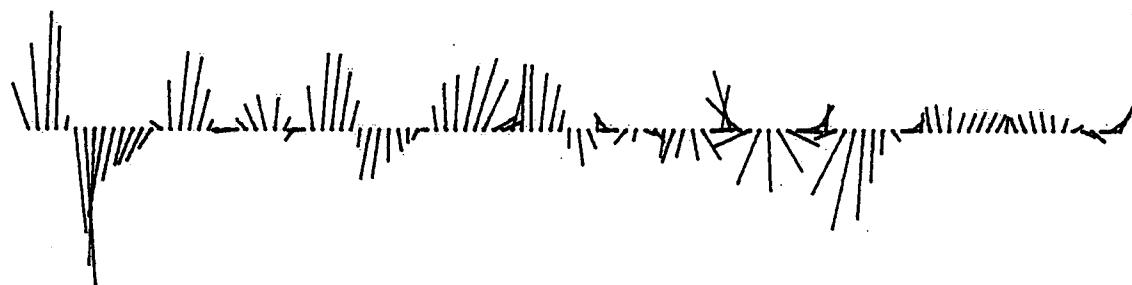


FILTERED CURRENT

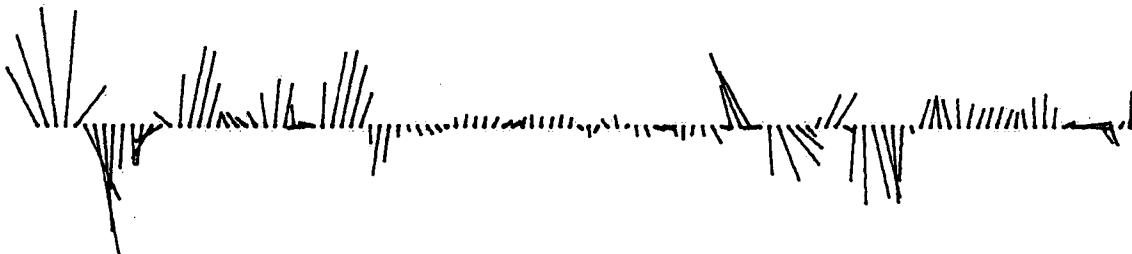
(0.0 TO 0.05 CPH)

0 CM/SEC

DEPTH: 15 M

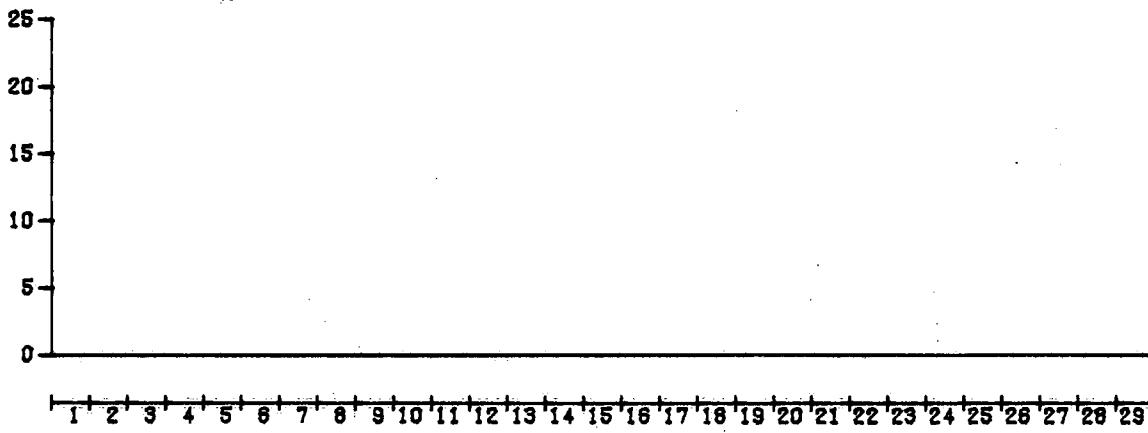


DEPTH: 31 M



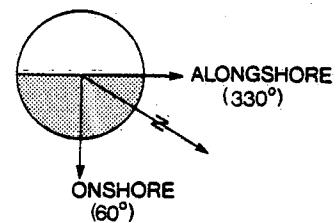
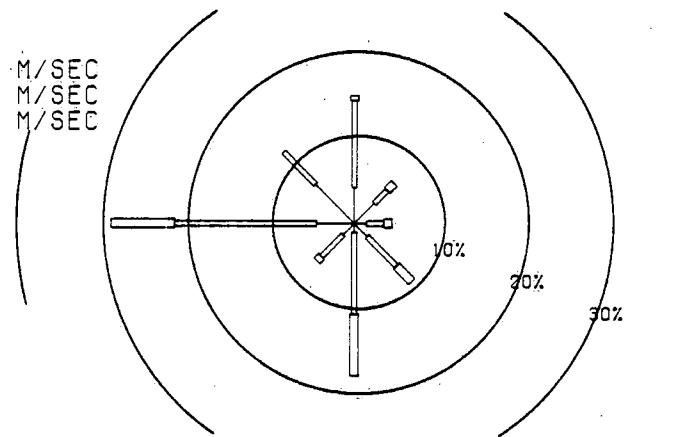
○ - 15 M
△ - 31 M

TEMPERATURE °C

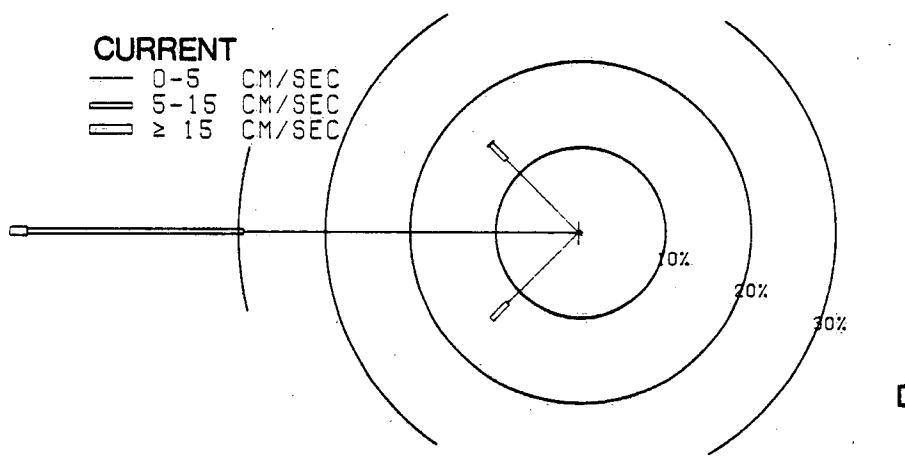


MOORING: 5 DATE: FEB 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

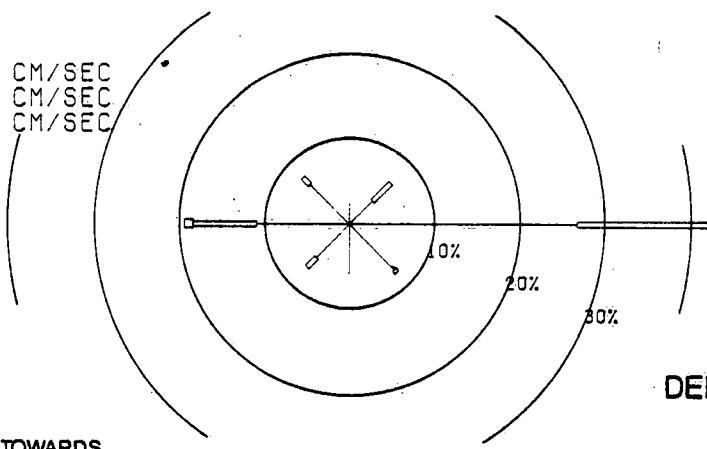


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

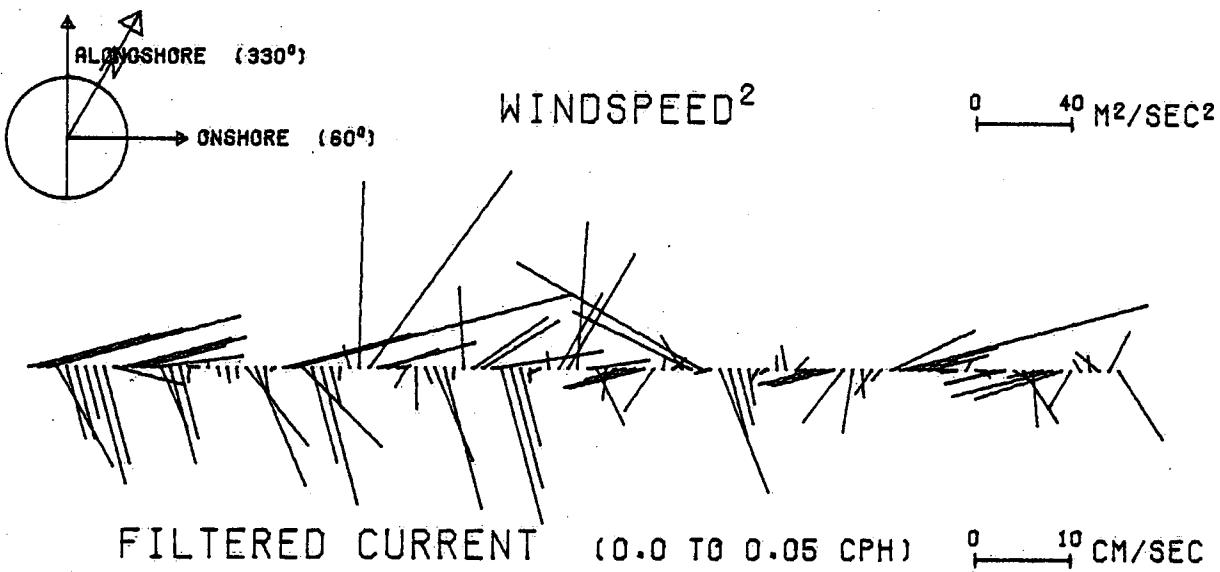
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



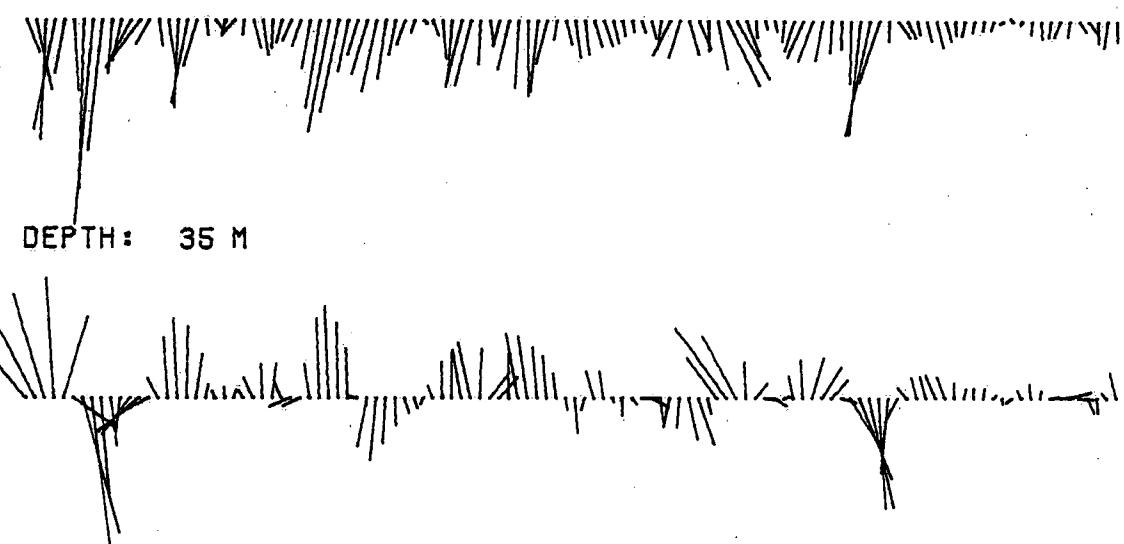
DEPTH: 35 m

*DIRECTION TOWARDS

MOORING: 75-5C-05 DATE: FEB 1976

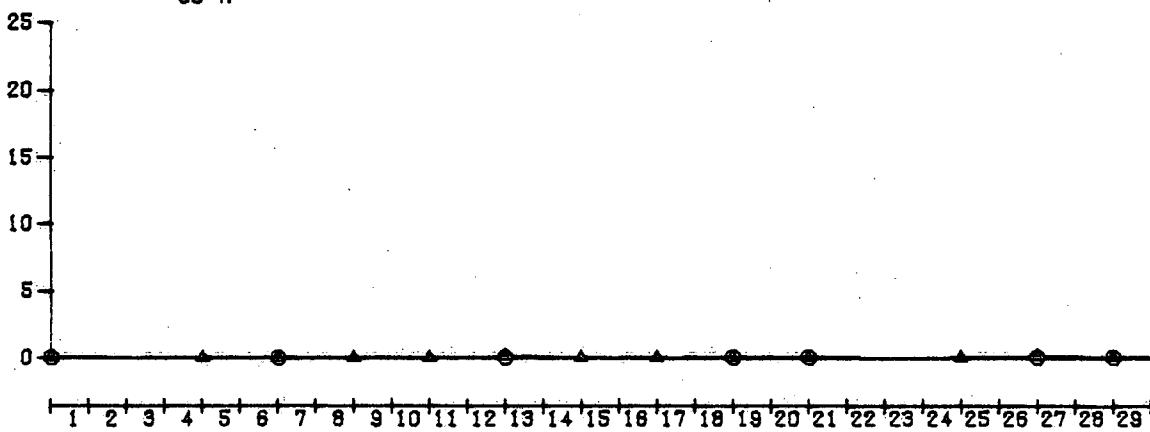


DEPTH: 15 M



◎ - 15 M
△ - 35 M

TEMPERATURE °C

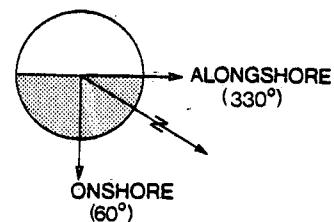
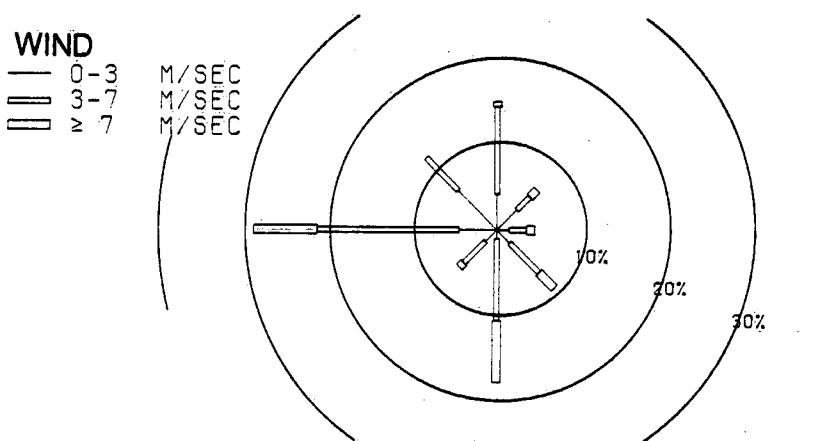


MOORING: 6 DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

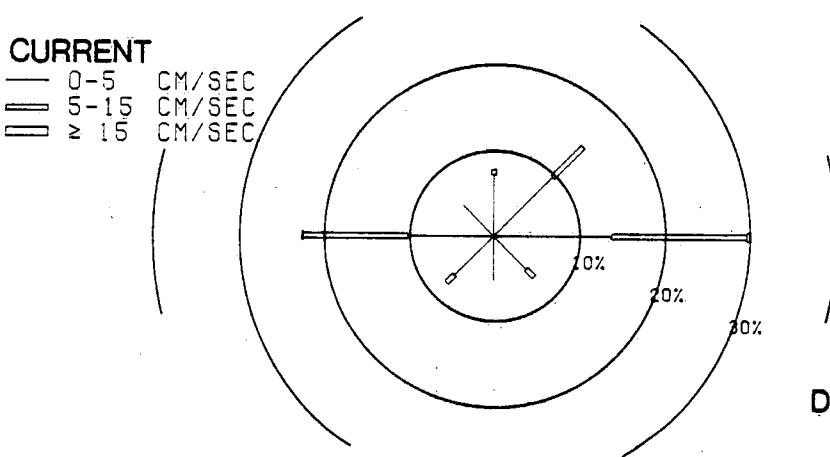
WIND

— 0-3
— 3-7
— ≥ 7

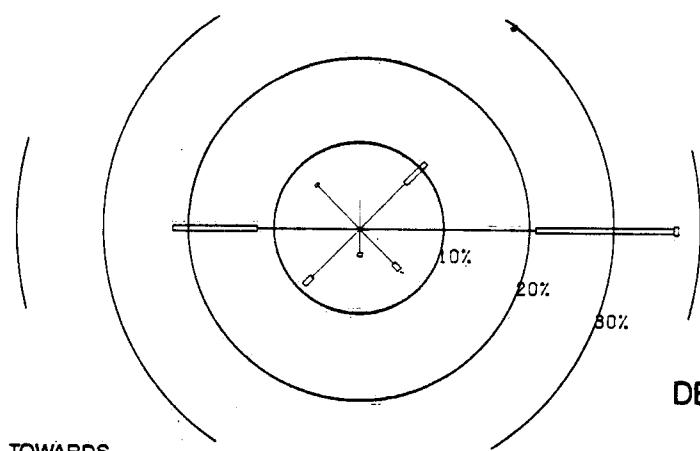


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



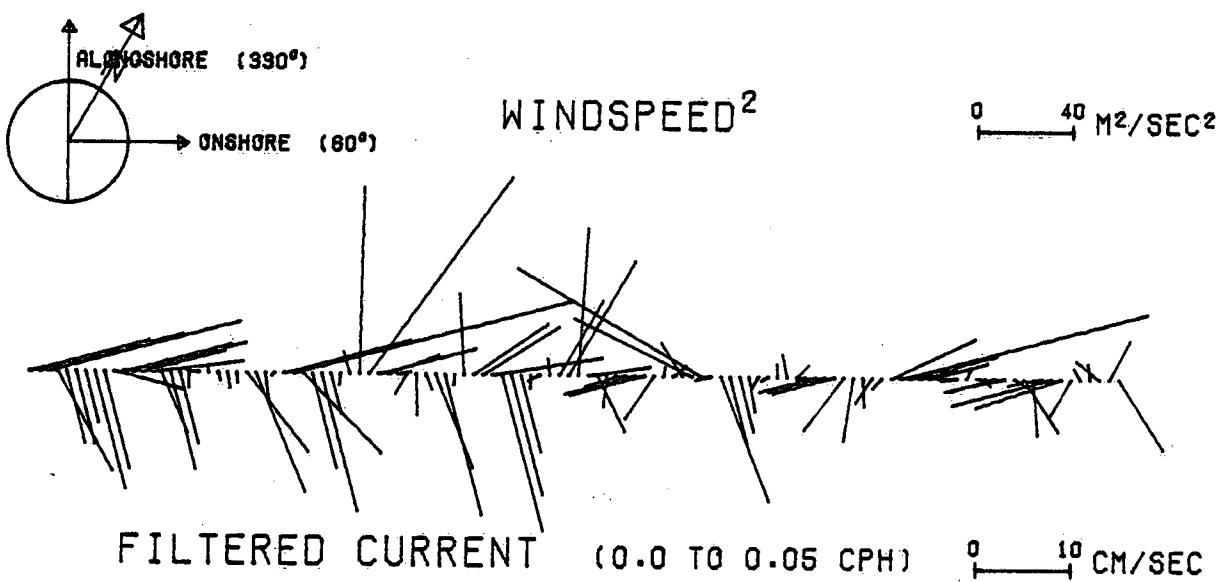
DEPTH: 15 m



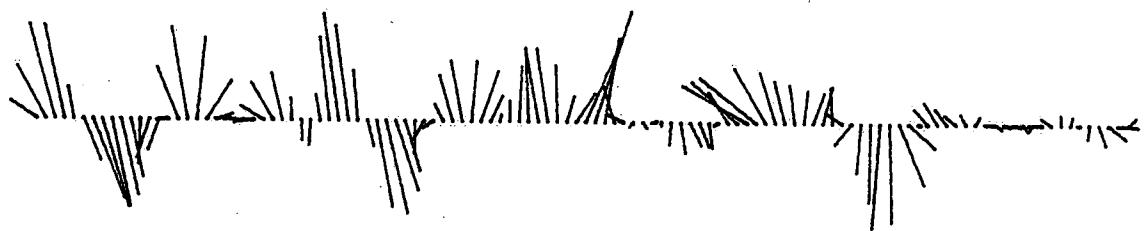
DEPTH: 25 m

*DIRECTION TOWARDS

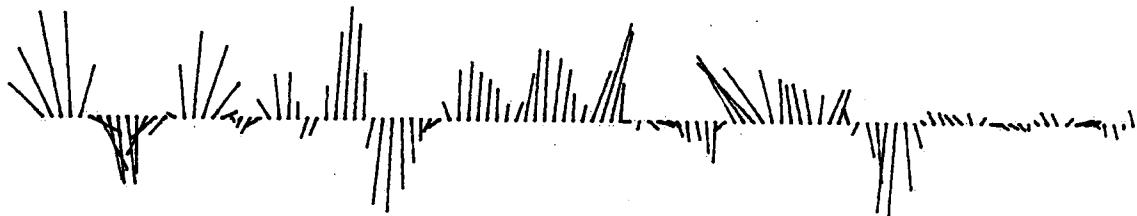
MOORING: 75-5C-06 DATE: FEB 1976



DEPTH: 15 M

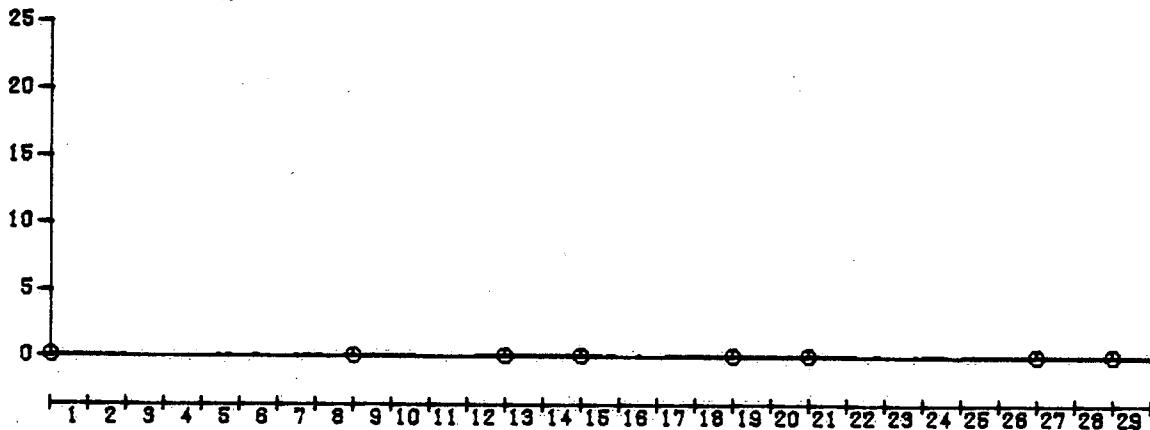


DEPTH: 25 M



○ - 15 M
△ - M

TEMPERATURE °C

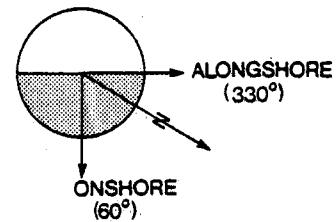
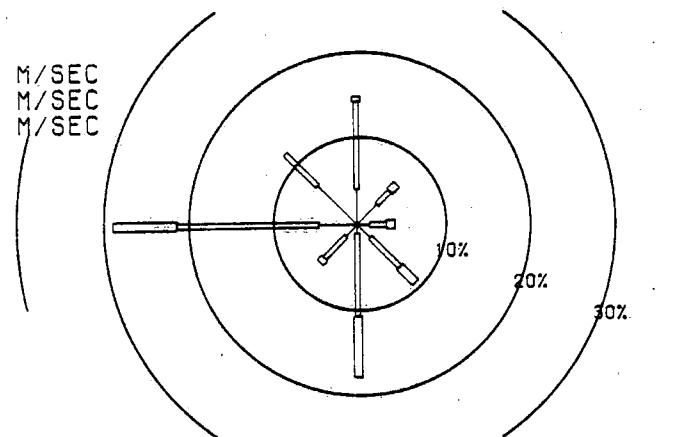


MOORING: 6

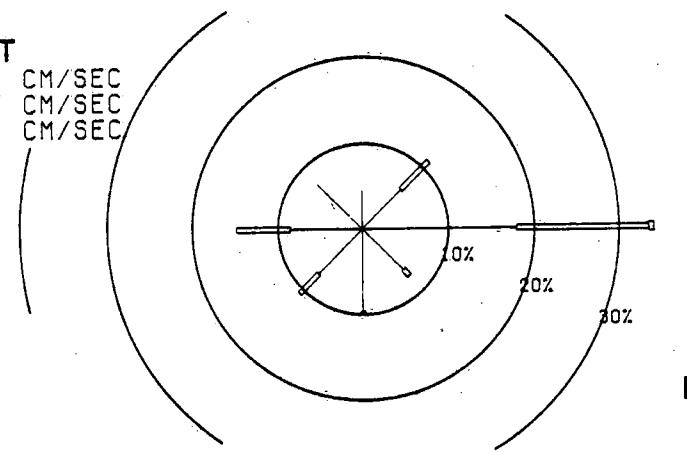
DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

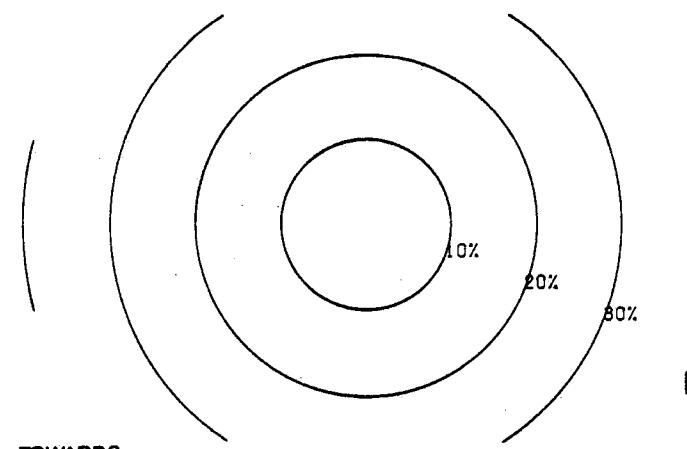
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



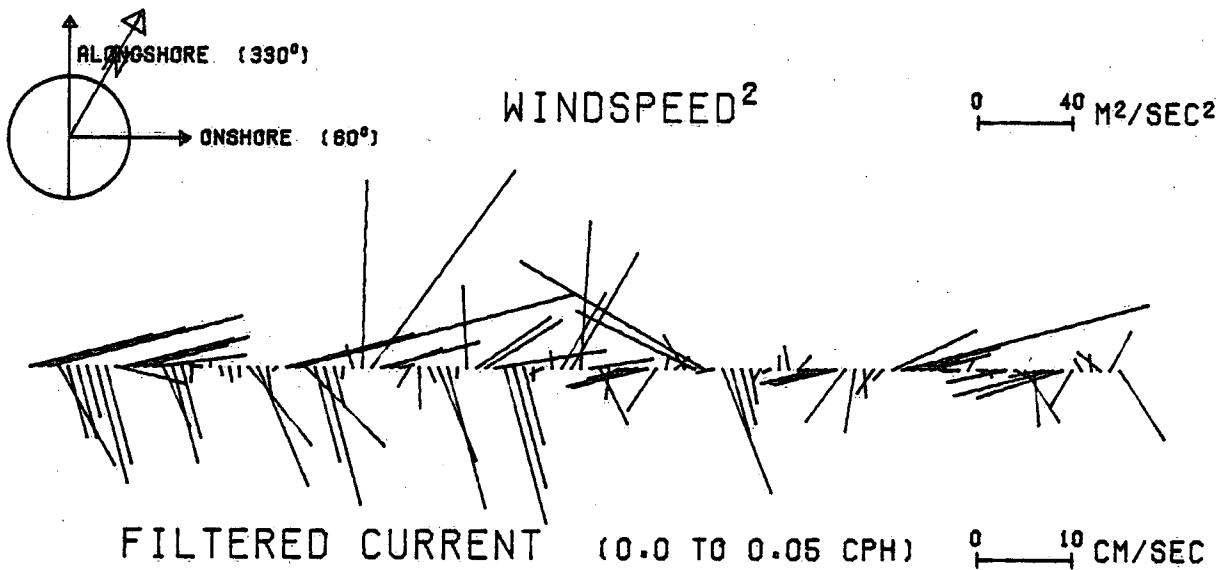
DEPTH: 43 m



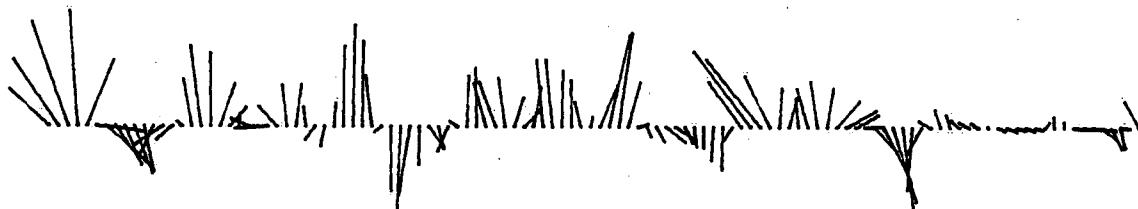
DEPTH: m

*DIRECTION TOWARDS

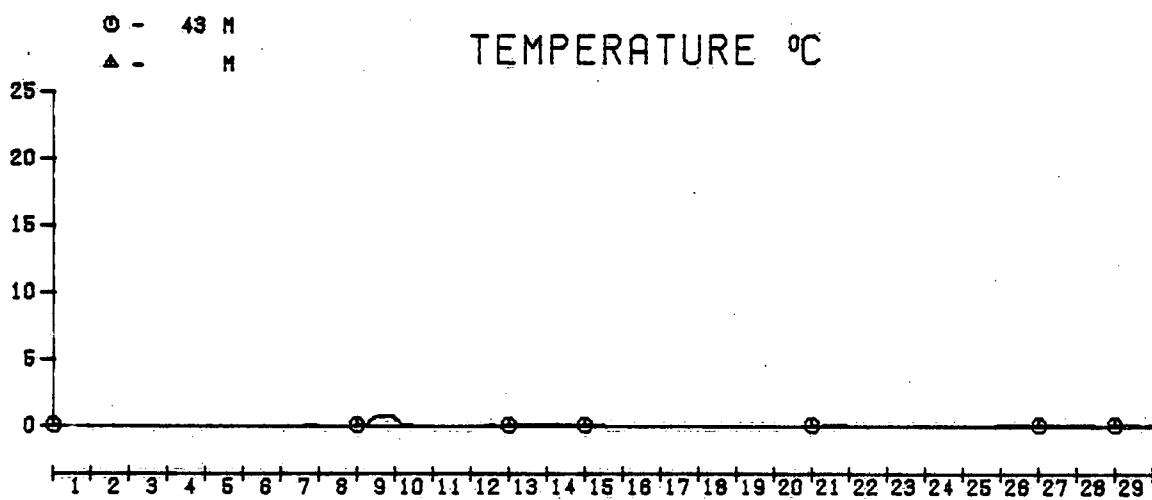
MOORING: 75-5C-06 DATE: FEB 1976



DEPTH: 43 M



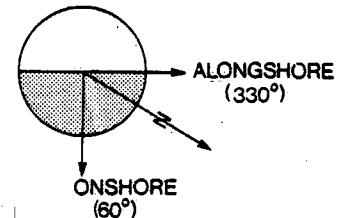
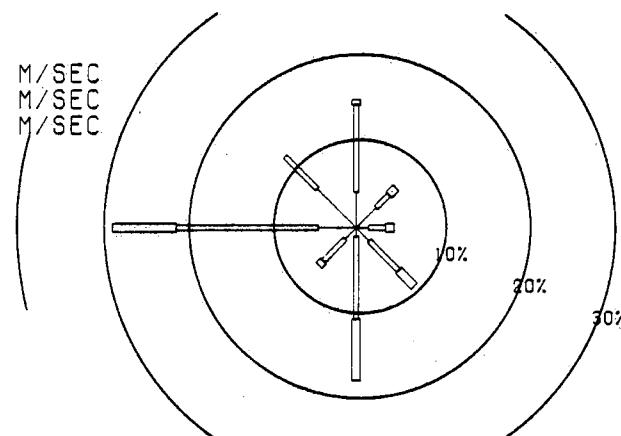
DEPTH: M



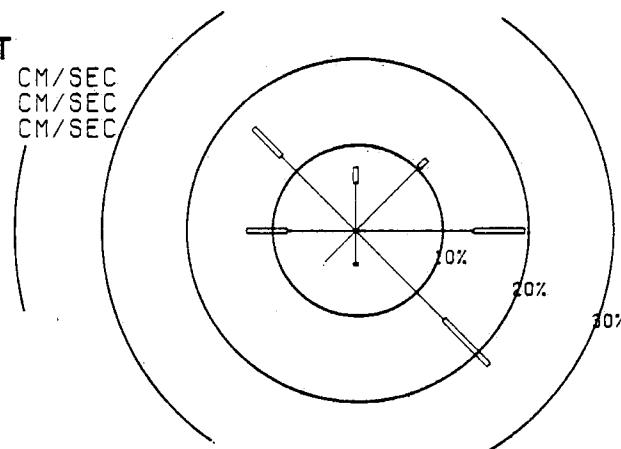
MOORING: 7 DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

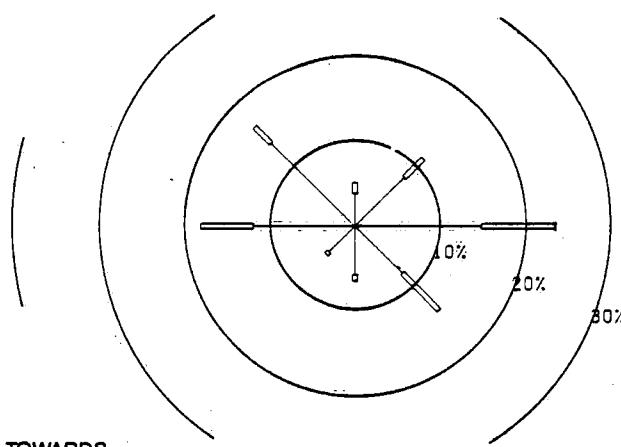
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



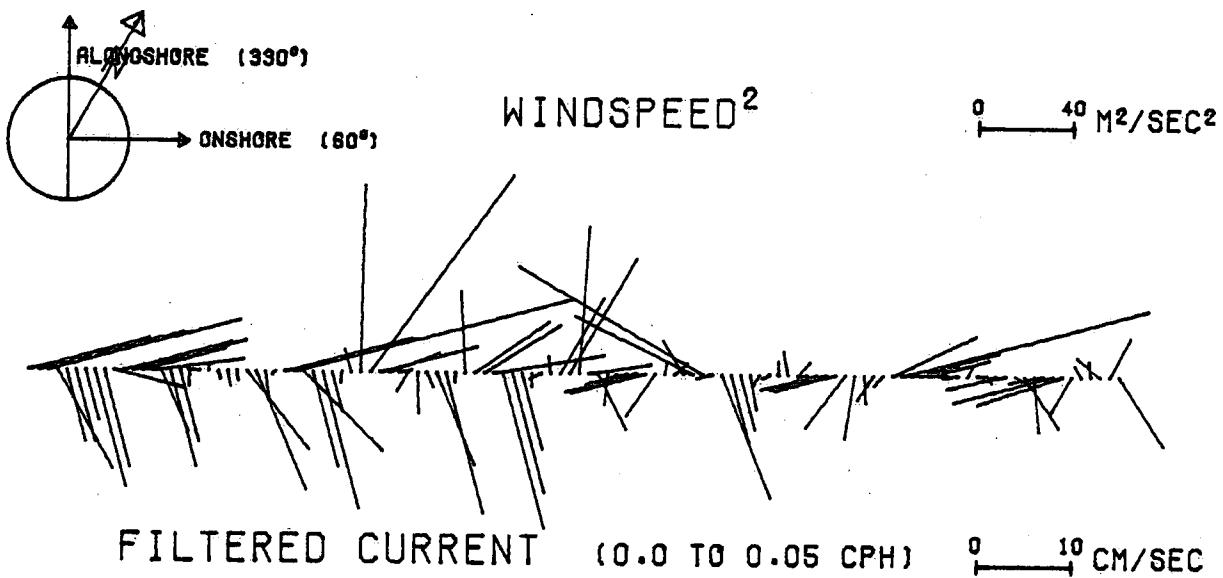
DEPTH: 15 m



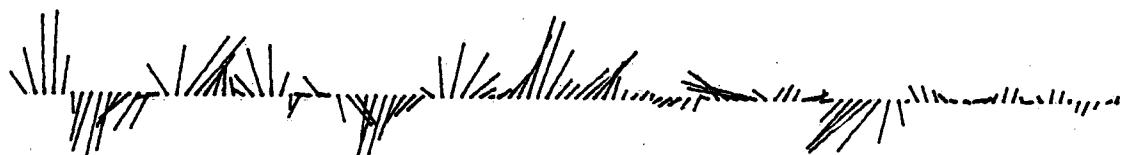
DEPTH: 25 m

*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: FEB 1976



DEPTH: 15 M

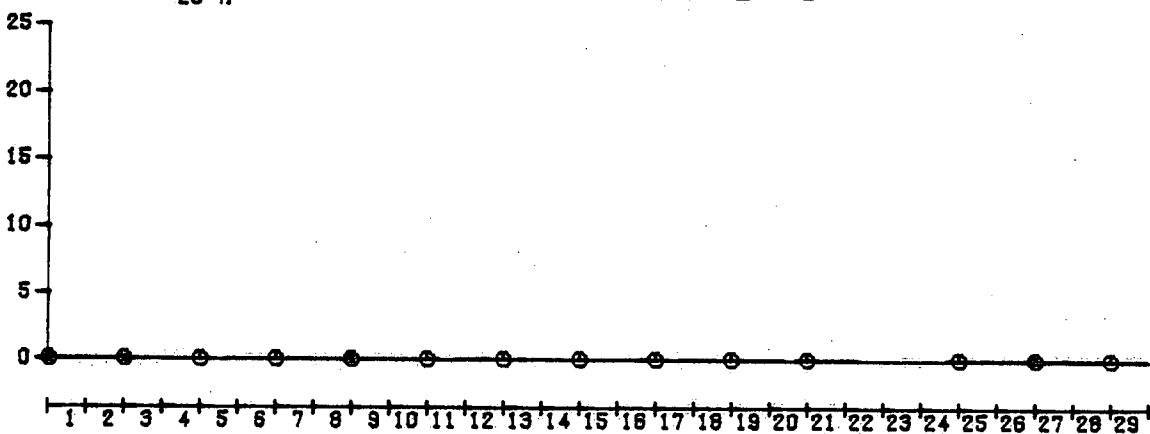


DEPTH: 25 M



○ - 15 M
△ - 25 M

TEMPERATURE °C

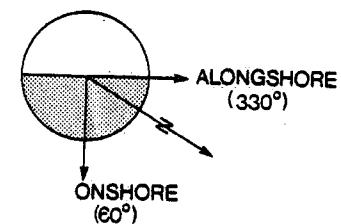
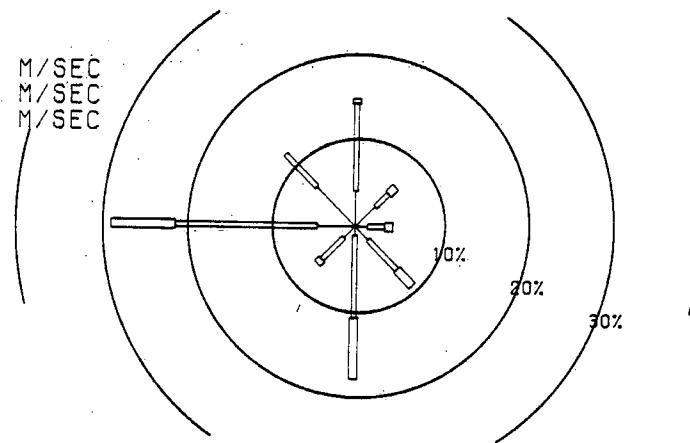


MOORING: 7

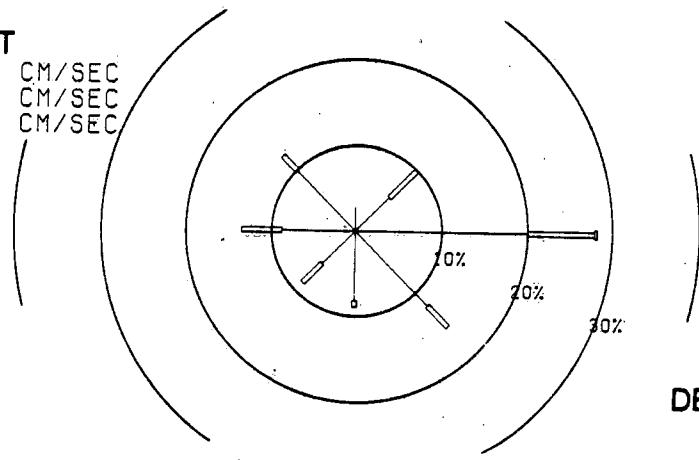
DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

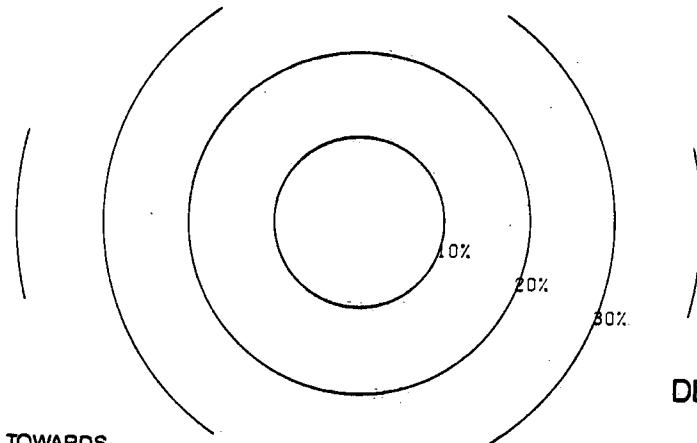
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



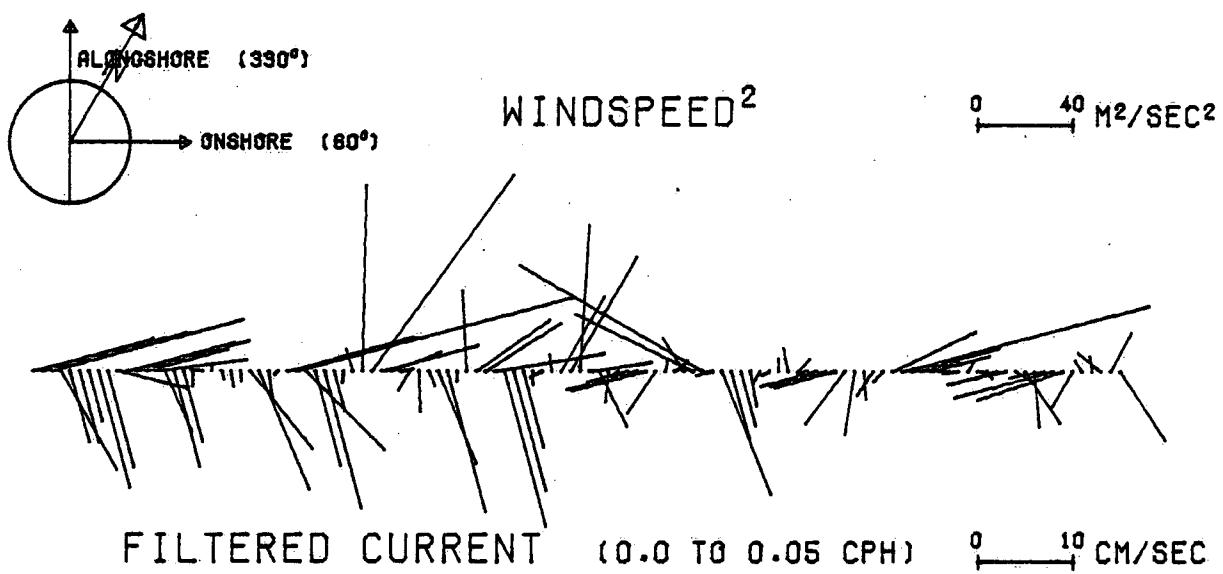
DEPTH: 44 m



DEPTH: m

*DIRECTION TOWARDS

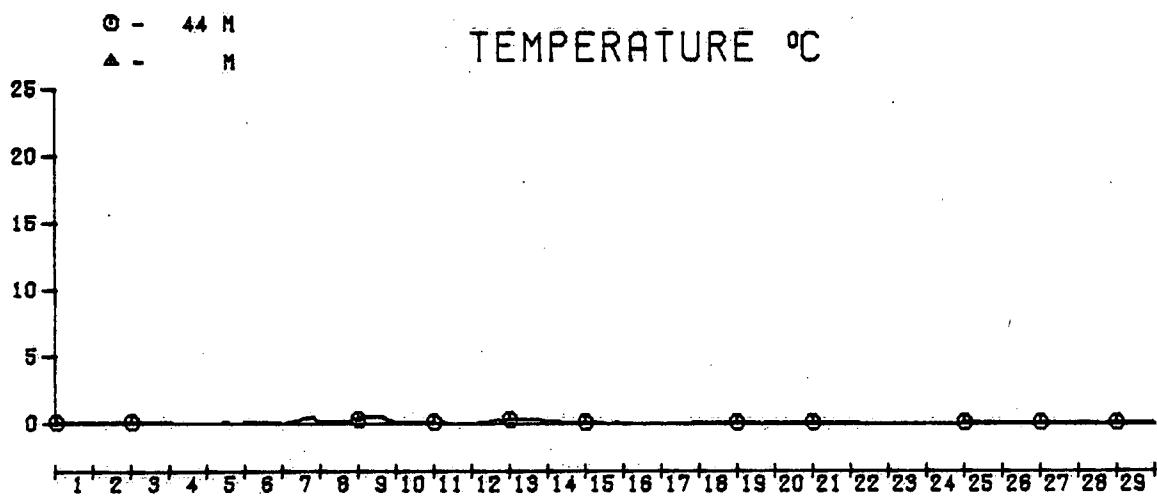
MOORING: 75-5C-07 DATE: FEB 1976



DEPTH: 44 M



DEPTH: M

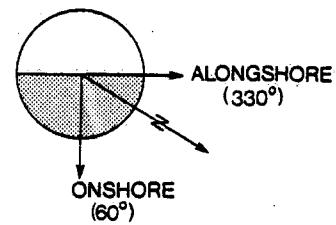
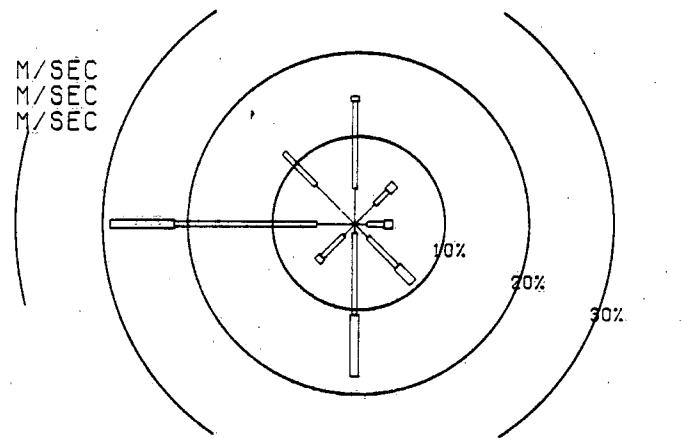


MOORING: 8

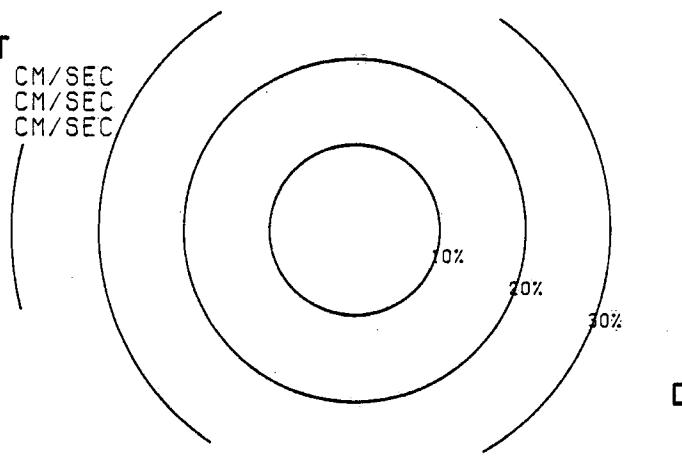
DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

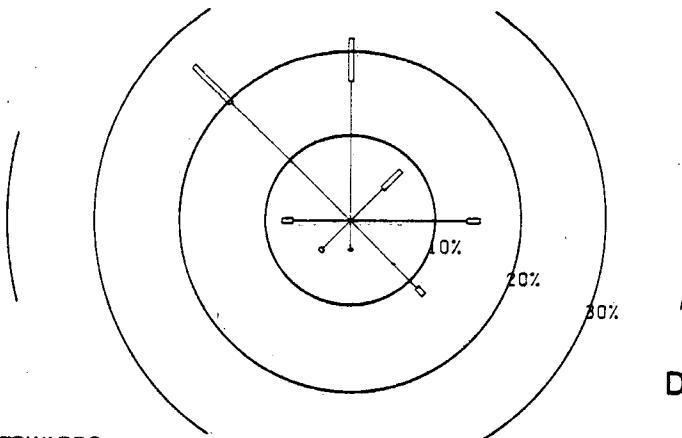


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



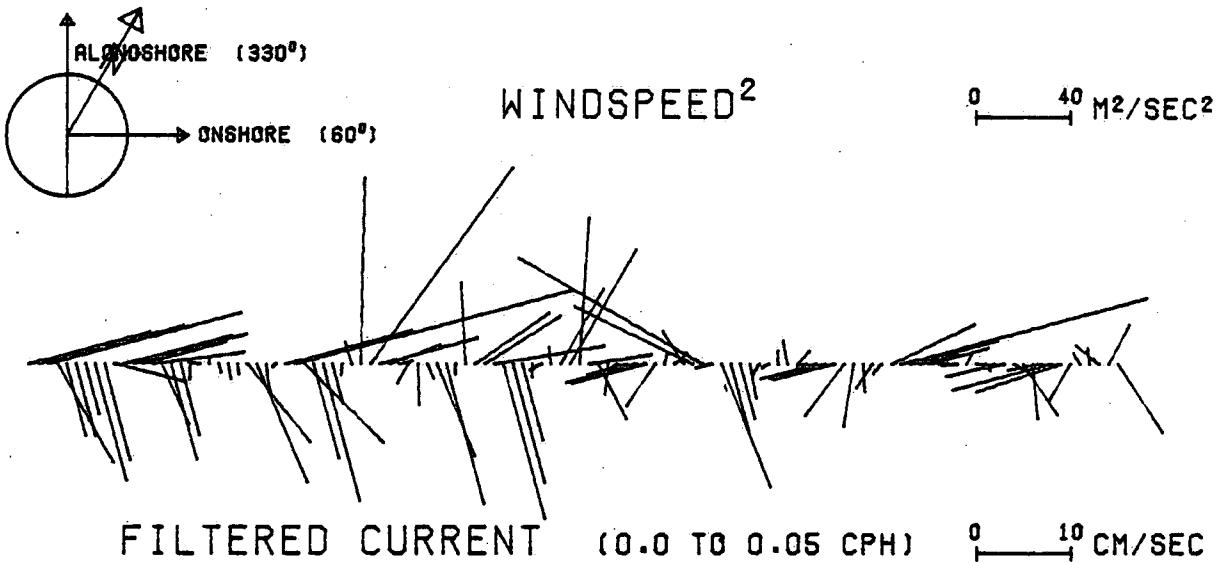
DEPTH: 0 m

*DIRECTION TOWARDS



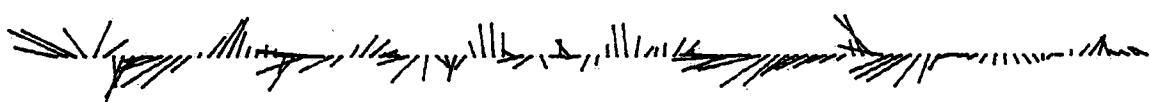
DEPTH: 25 m

MOORING: 75-5C-08 DATE: FEB 1976



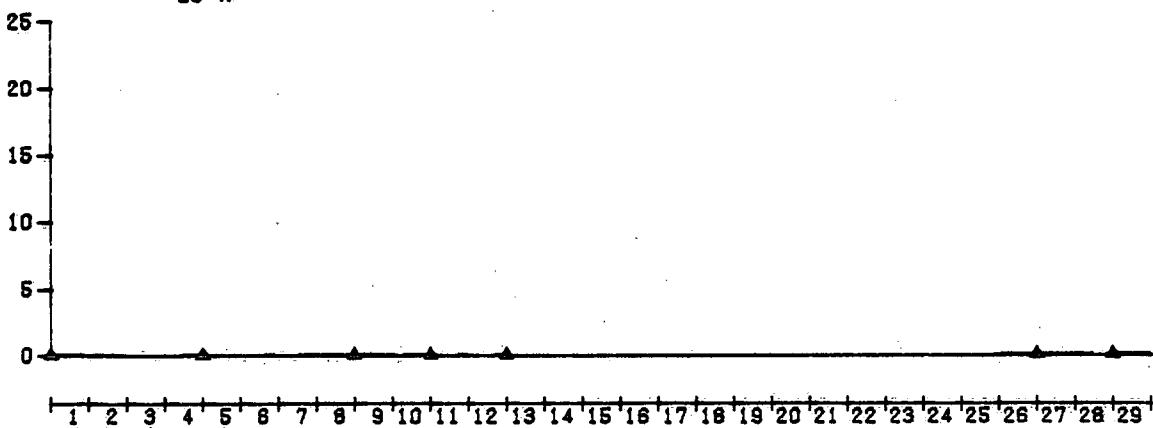
DEPTH: M

DEPTH: 25 M



○ - M
△ - 25 M

TEMPERATURE °C

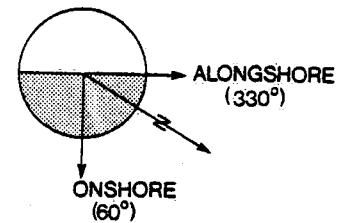
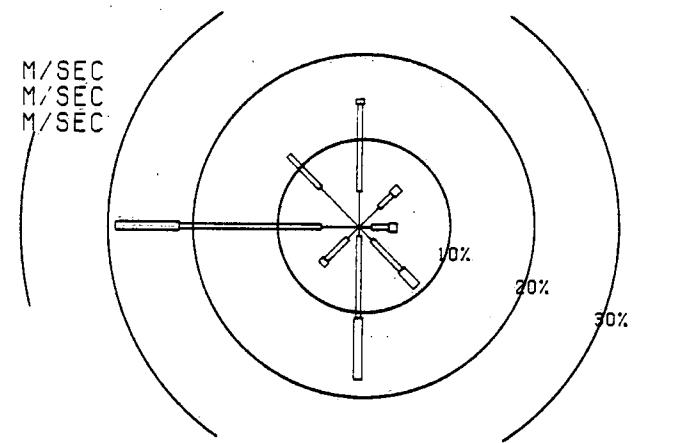


MOORING: 8

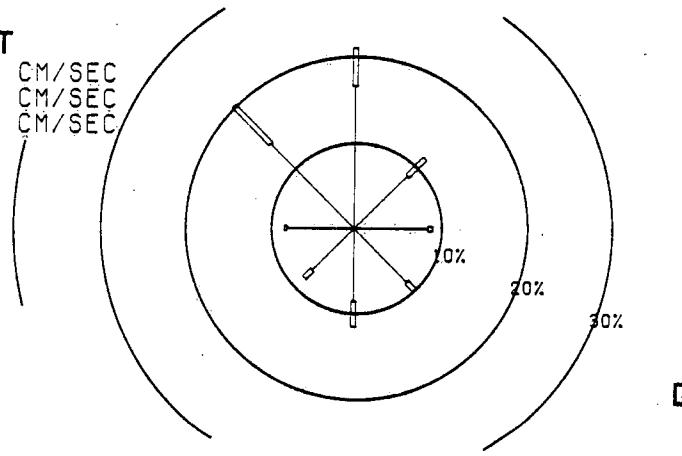
DATE: FEB 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

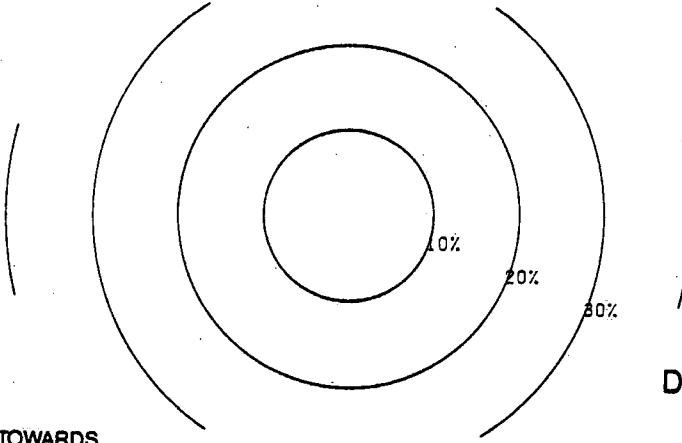


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



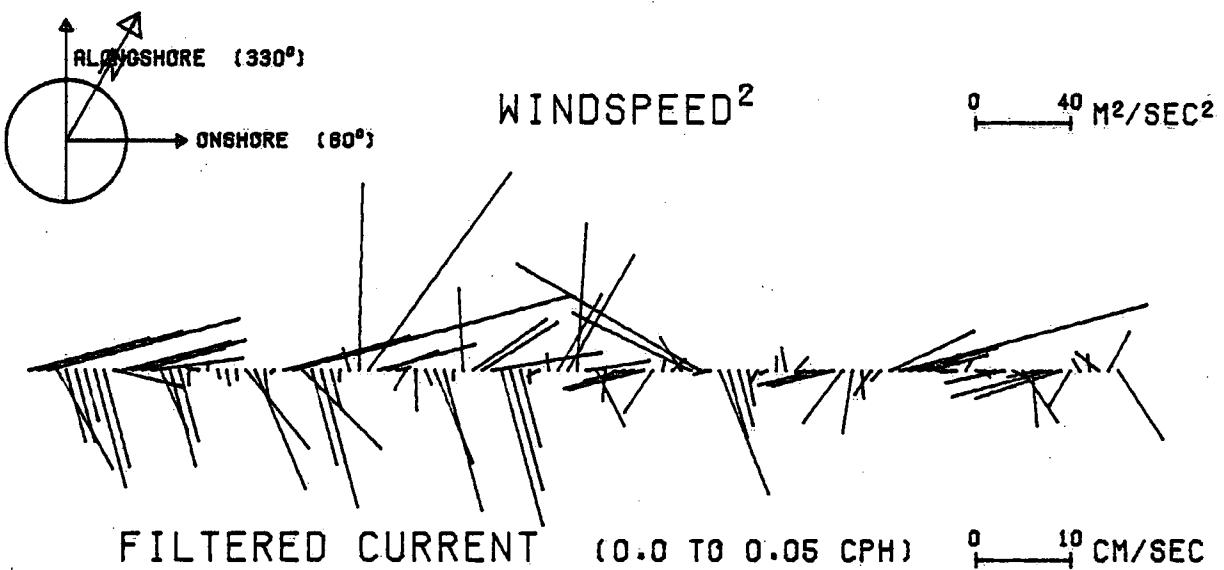
DEPTH: 59 m

*DIRECTION TOWARDS

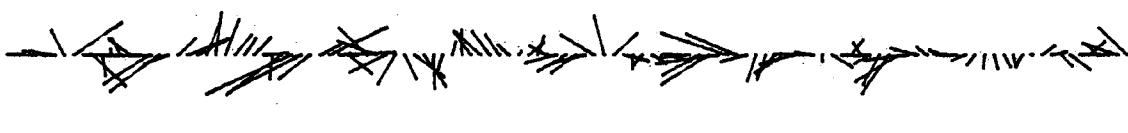


DEPTH: m

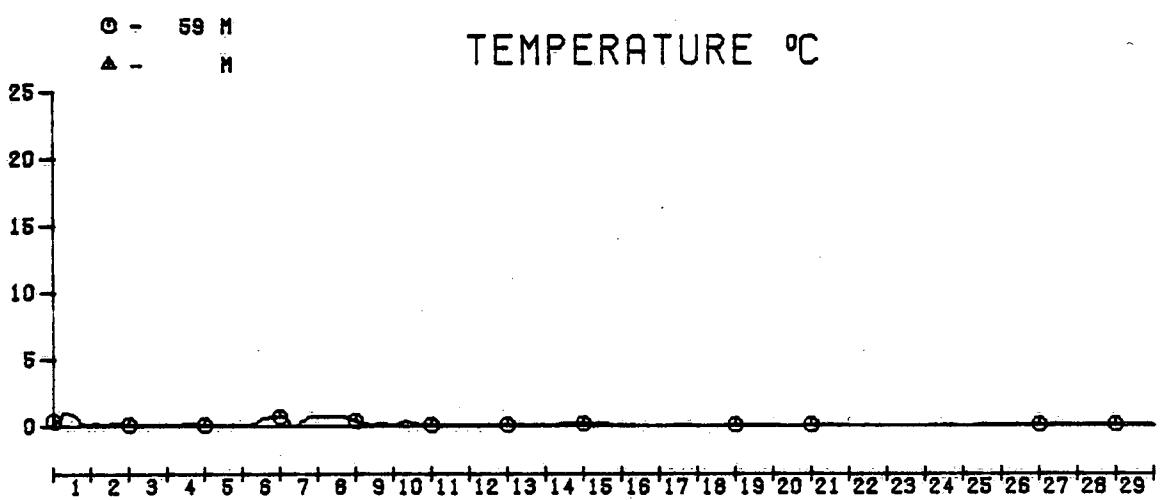
MOORING: 75-5C-08 DATE: FEB 1976



DEPTH: 59 M



DEPTH: M

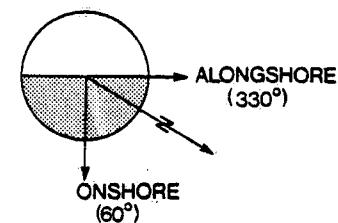
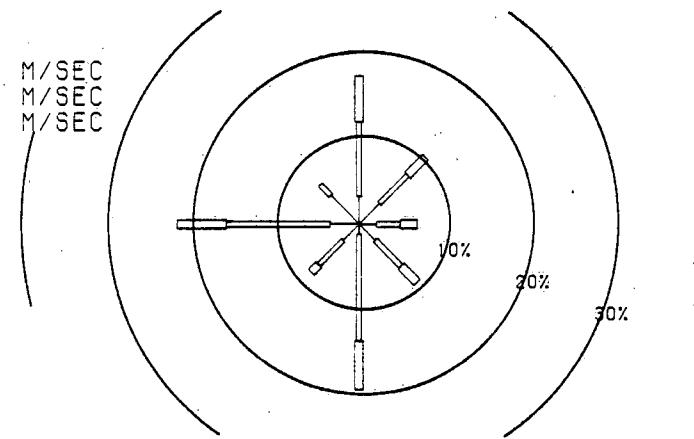


MOORING: 1

DATE: MAR 1976

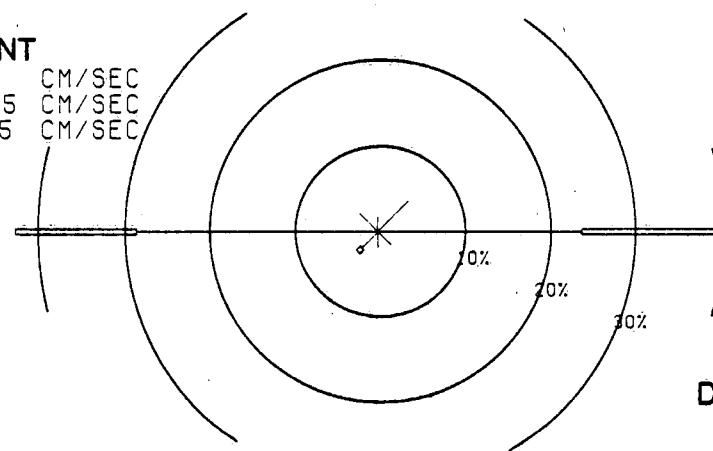
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC

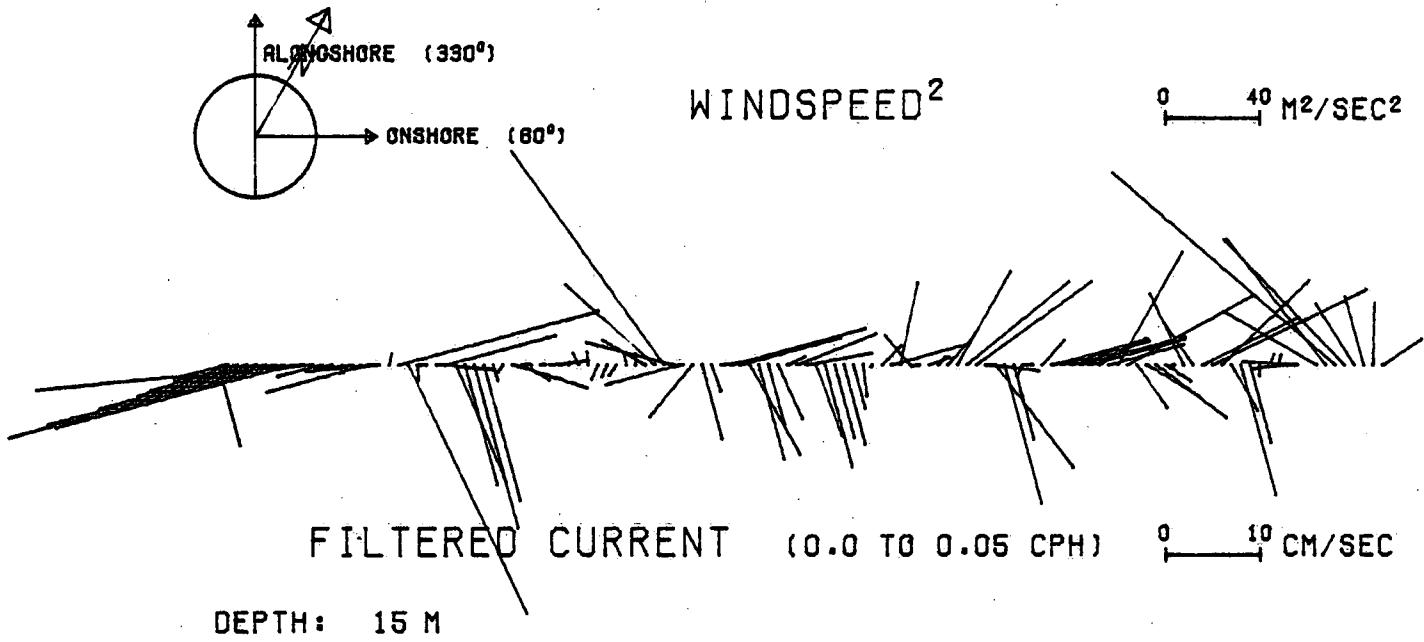


DEPTH: 15 m

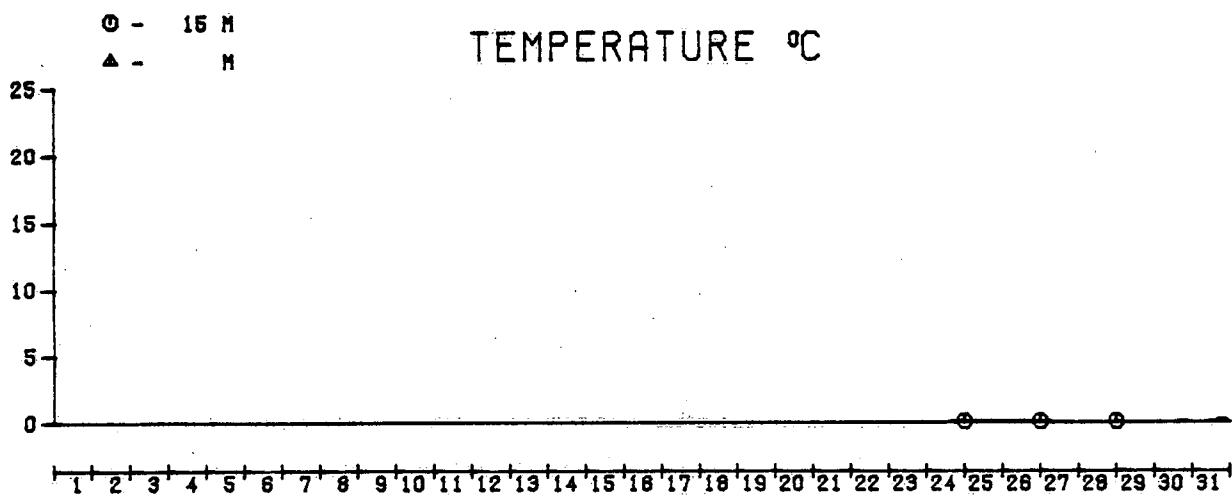
DEPTH: m

*DIRECTION TOWARDS

MOORING: 75-5C-01 DATE: MAR 1976



DEPTH: M



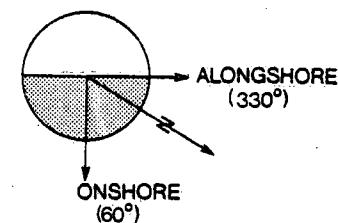
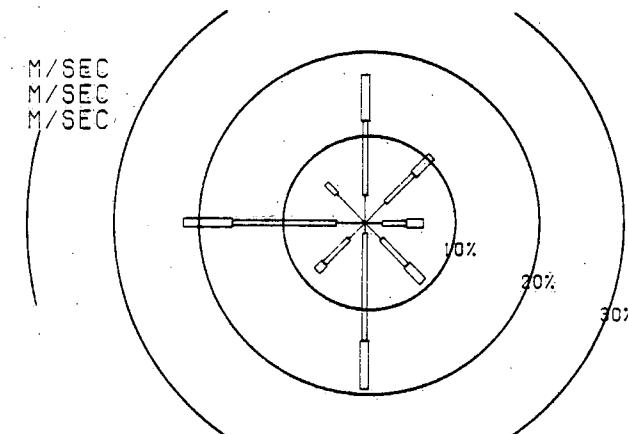
MOORING: 2

DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

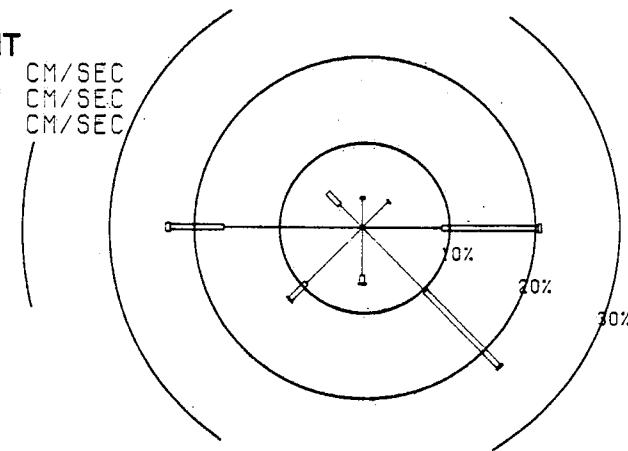
WIND

— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

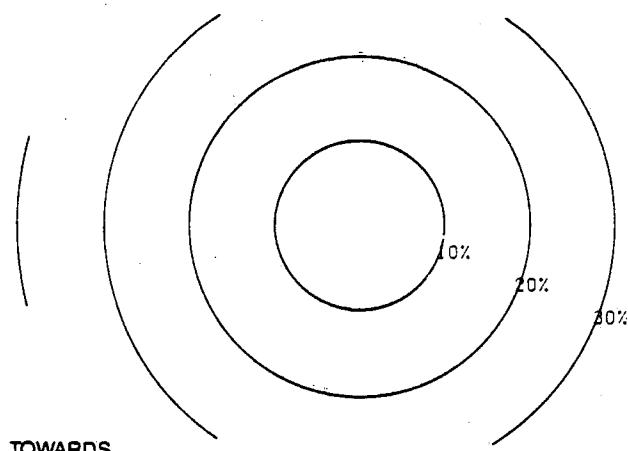


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



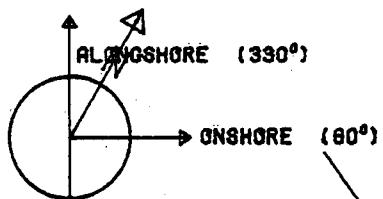
DEPTH: 15 m



DEPTH: m

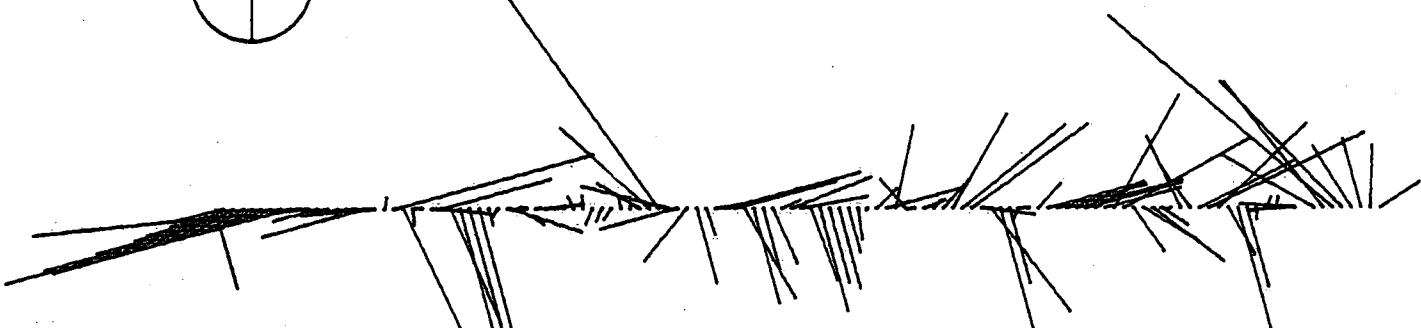
*DIRECTION TOWARDS

MOORING: 75-5C-02 DATE: MAR 1976



WINDSPEED²

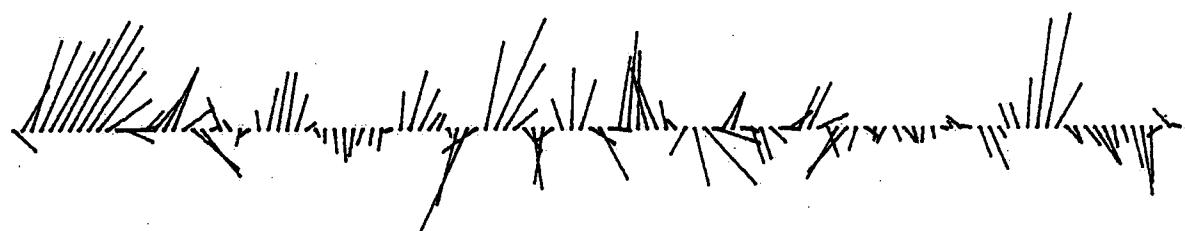
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

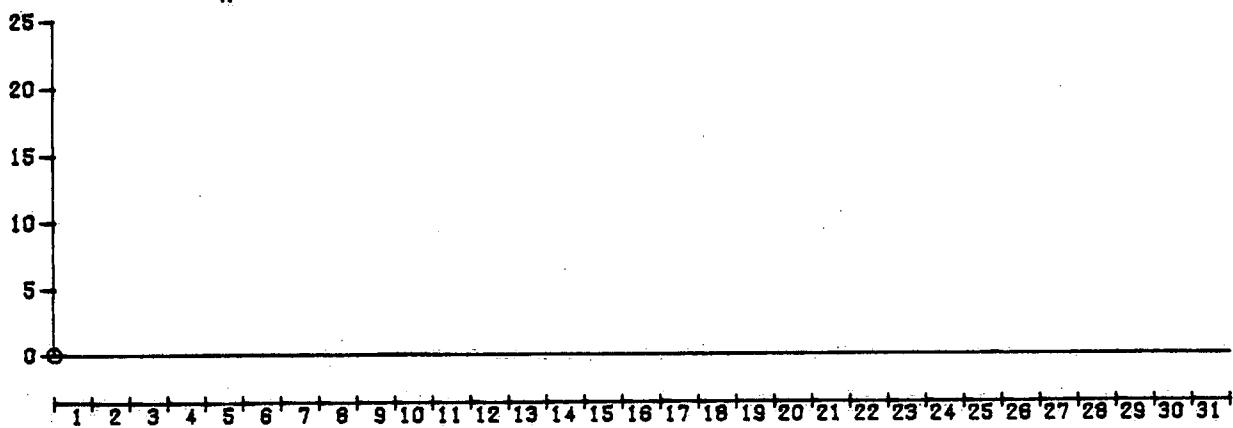
DEPTH: 15 M



DEPTH: M

○ - 15 M
△ - M

TEMPERATURE °C

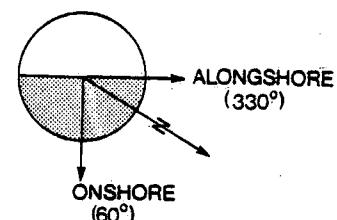
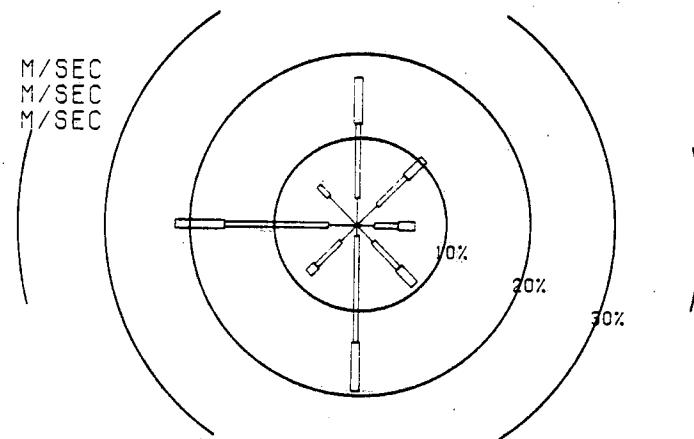


MOORING: 3

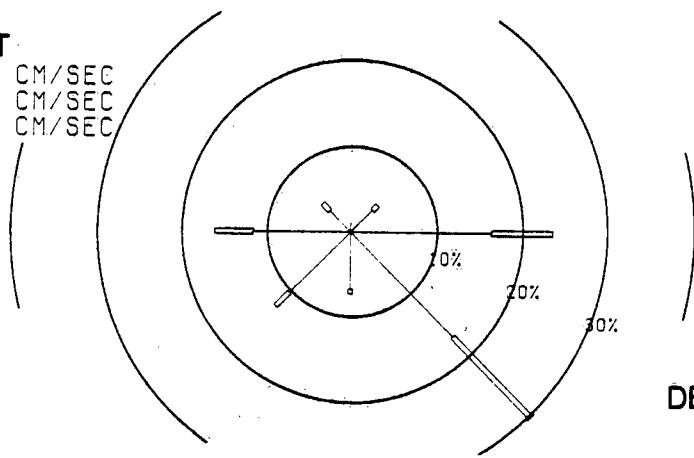
DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

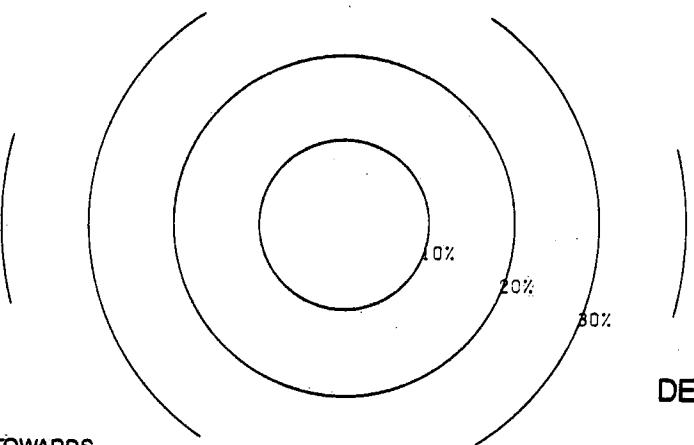


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



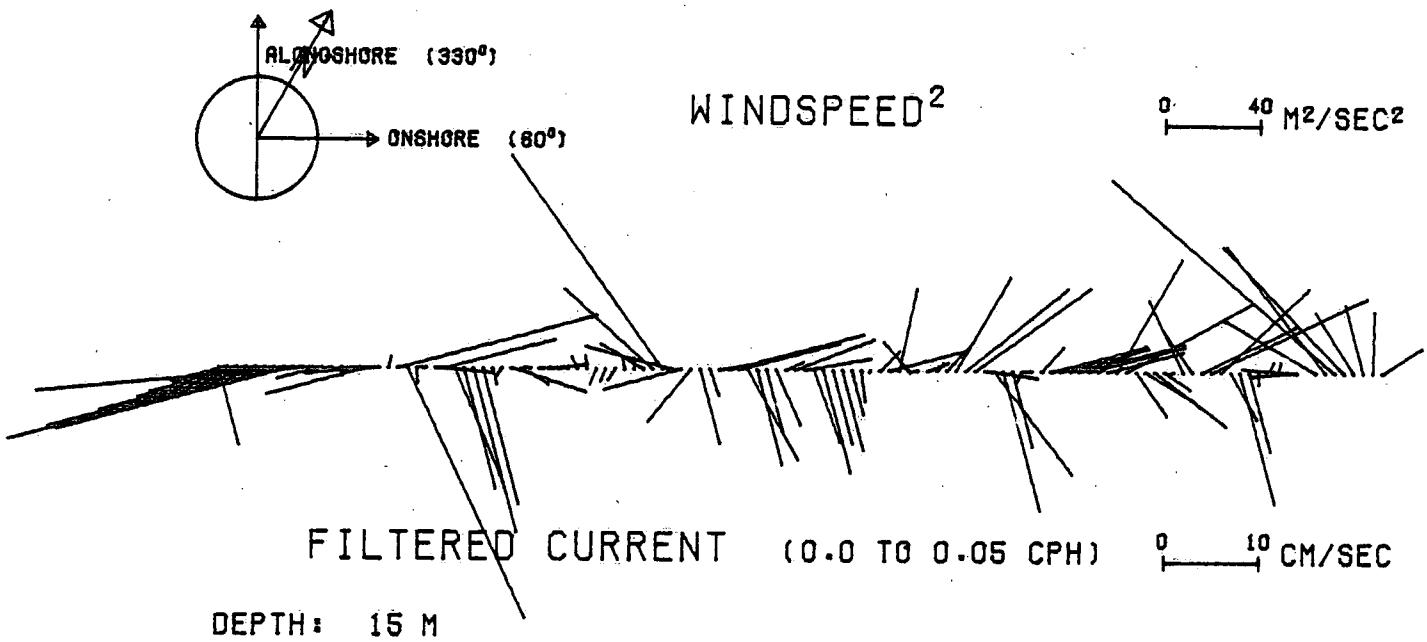
DEPTH: 15 m

*DIRECTION TOWARDS

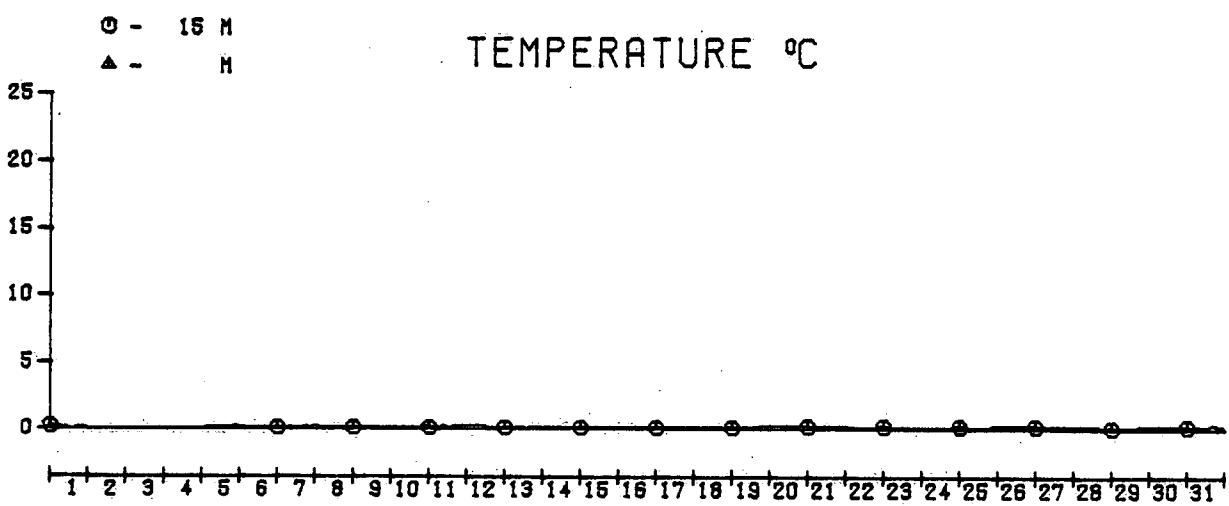


DEPTH: m

MOORING: 75-5C-03 DATE: MAR 1976



DEPTH: M

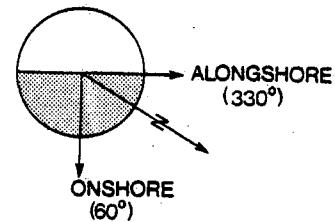
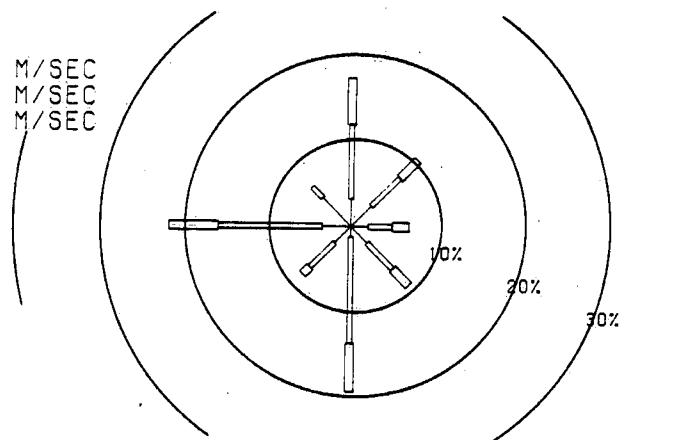


MOORING: 4

DATE: MAR 1976

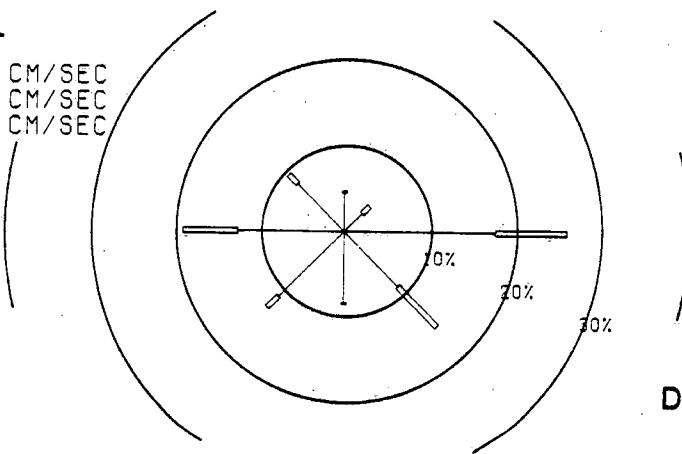
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



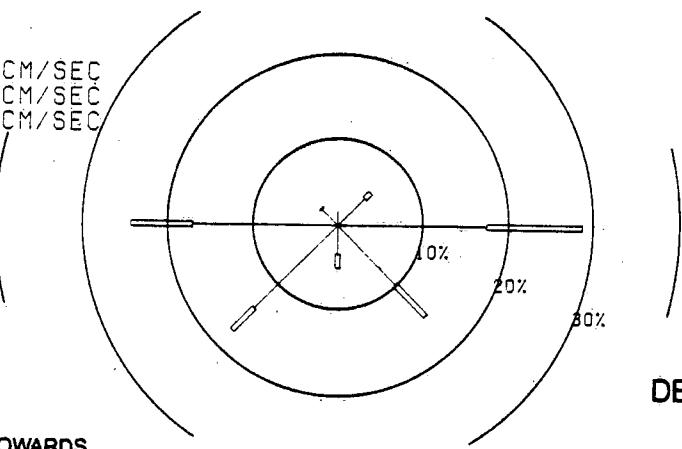
CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

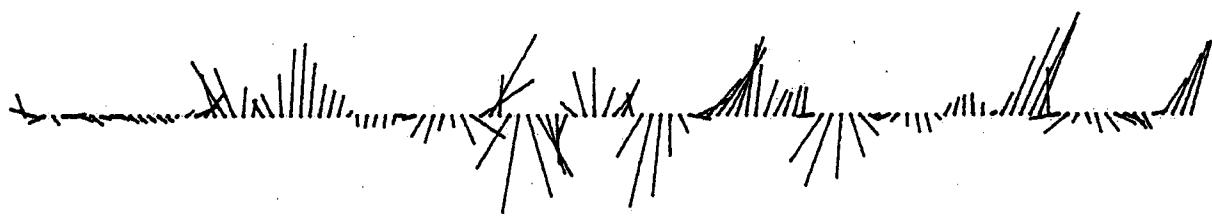
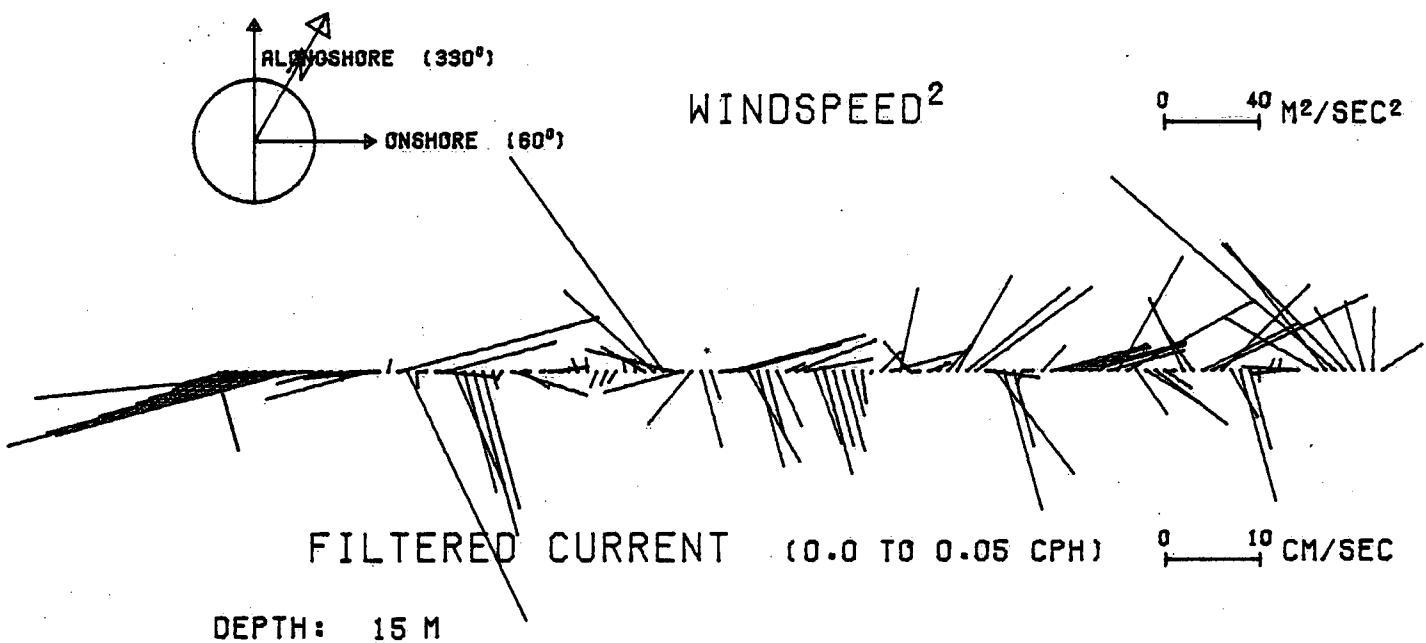
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



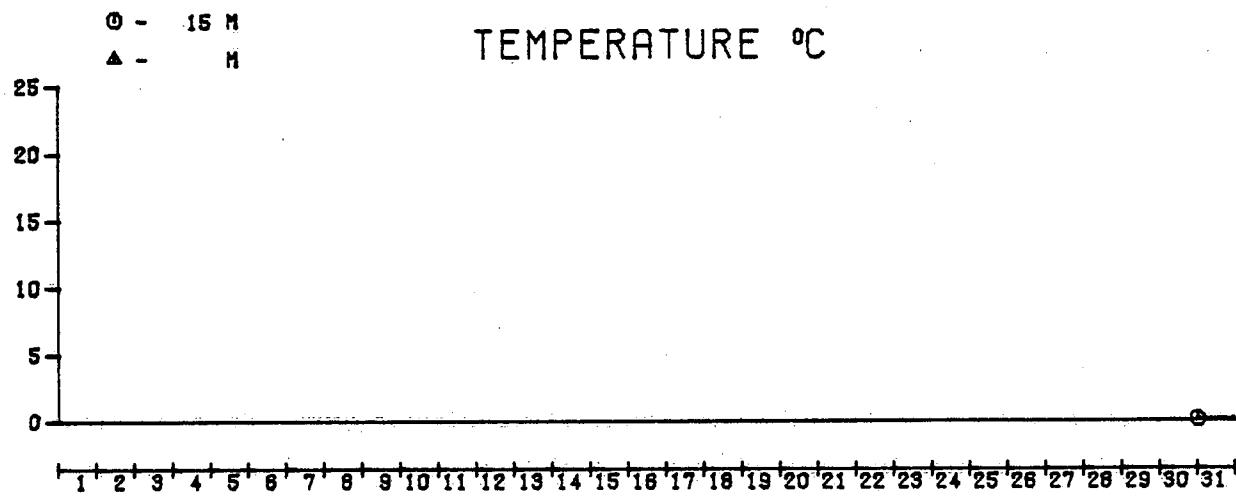
DEPTH: 31 m

*DIRECTION TOWARDS

MOORING: 75-5C-04 DATE: MAR 1976



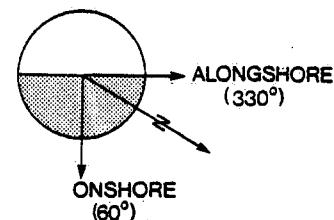
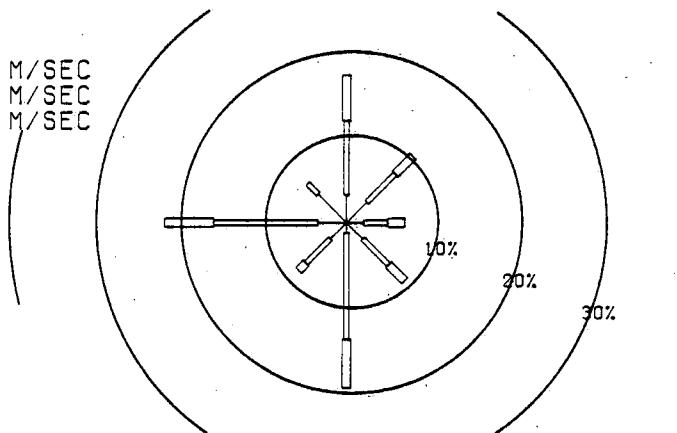
DEPTH: 31 M



MOORING: 5 DATE: MAR 1976

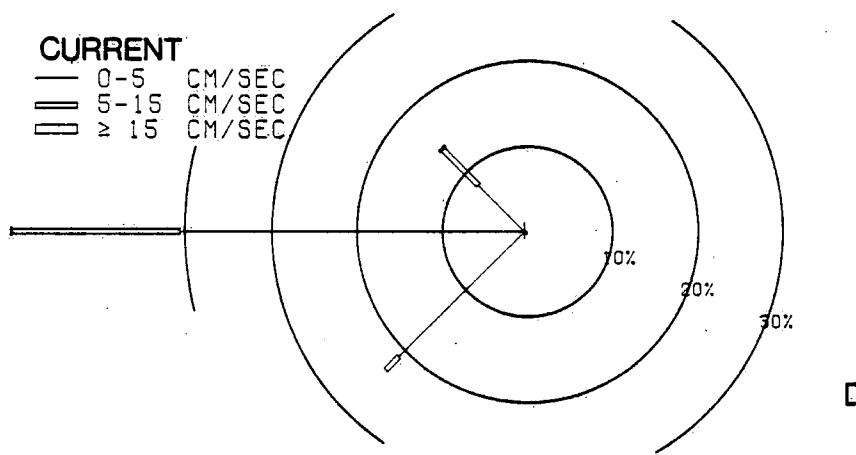
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



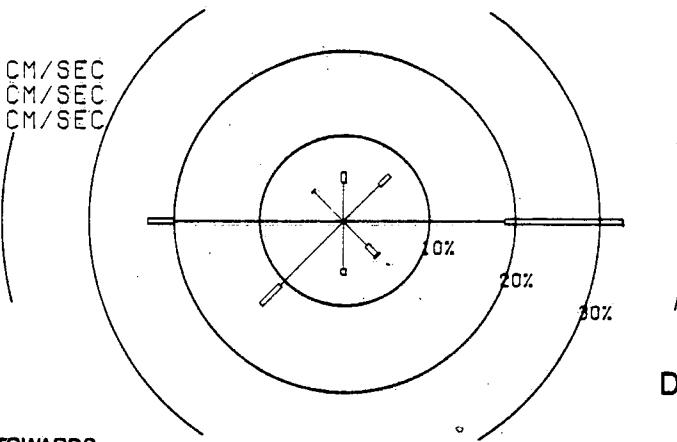
CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

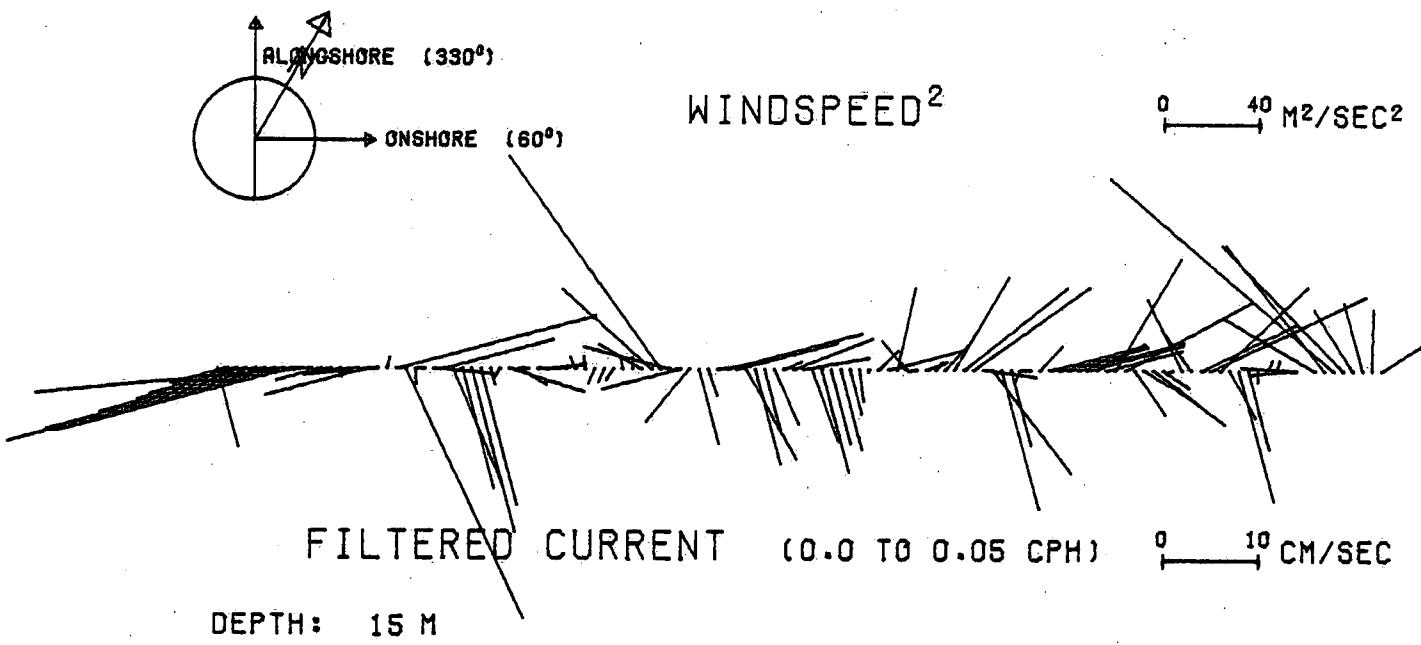
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



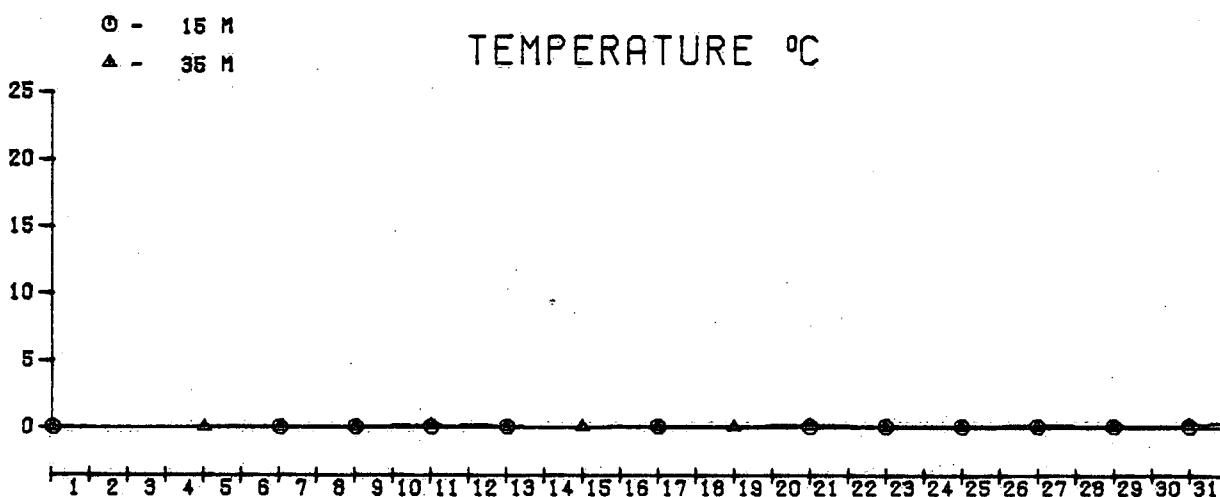
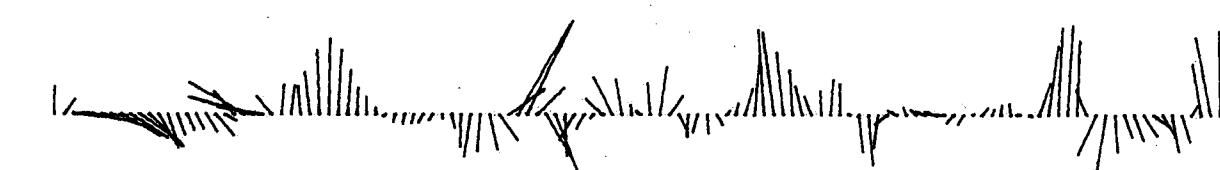
DEPTH: 35 m

*DIRECTION TOWARDS

MOORING: 75-5C-05 DATE: MAR 1976



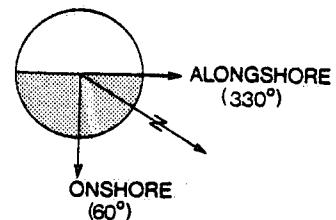
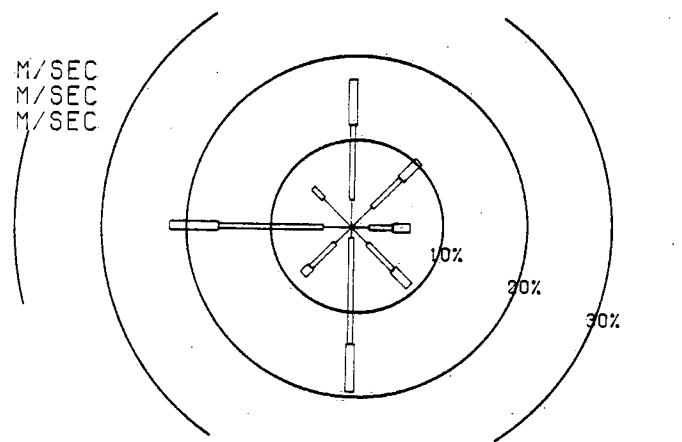
DEPTH: 35 M



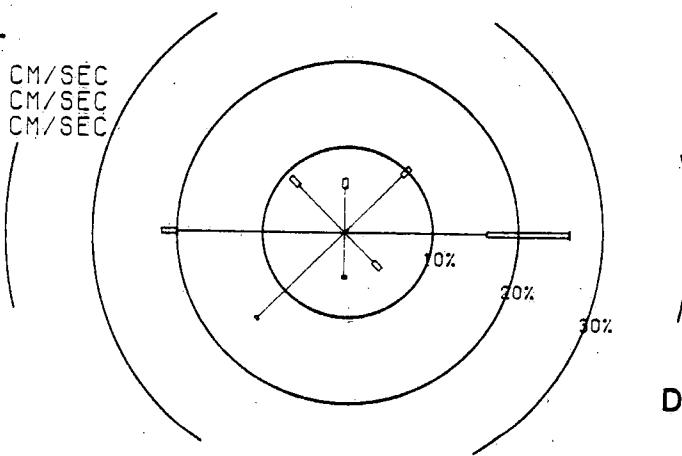
MOORING: 6 DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

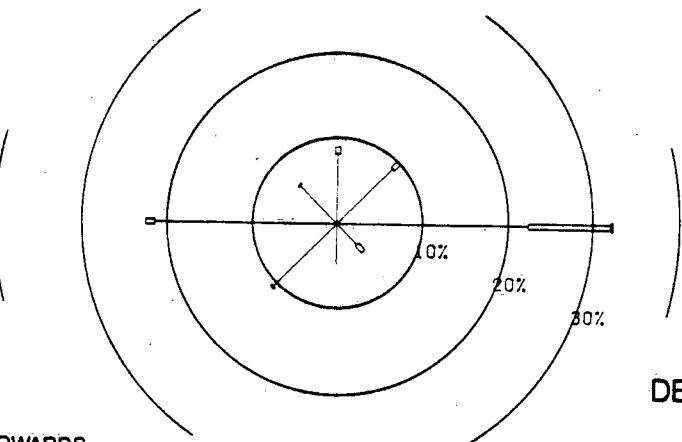


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



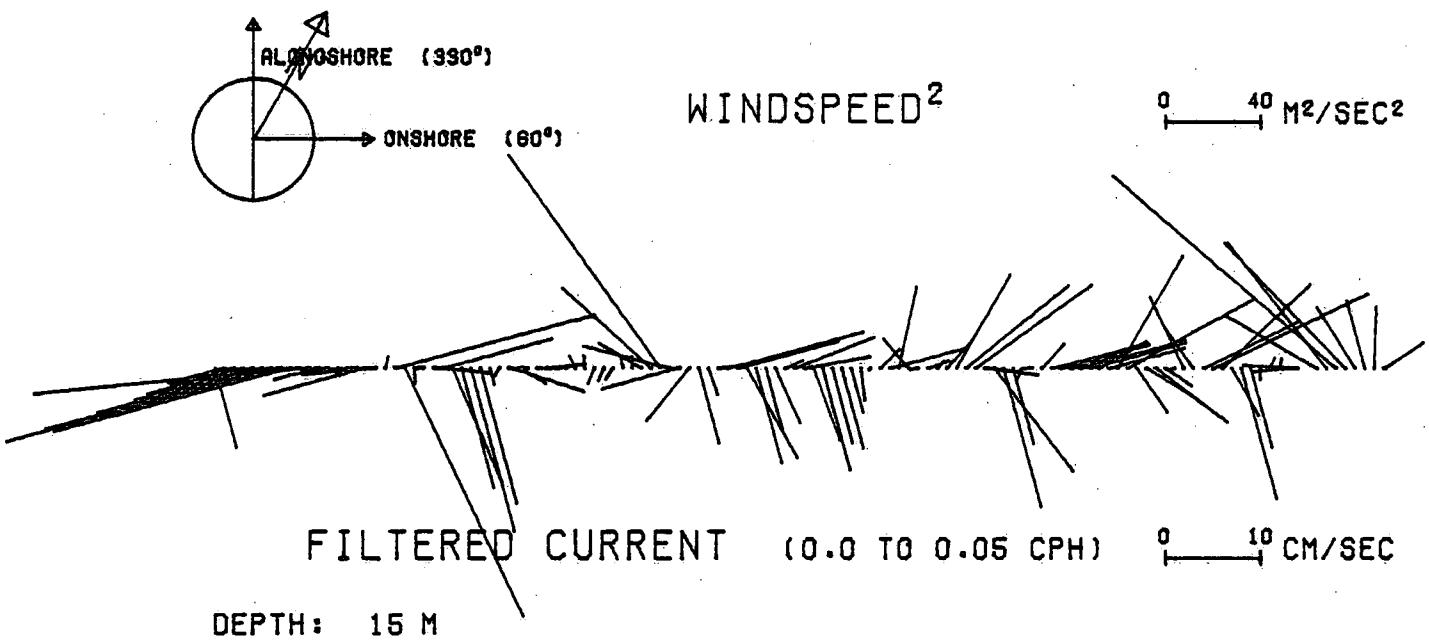
DEPTH: 15 m

*DIRECTION TOWARDS

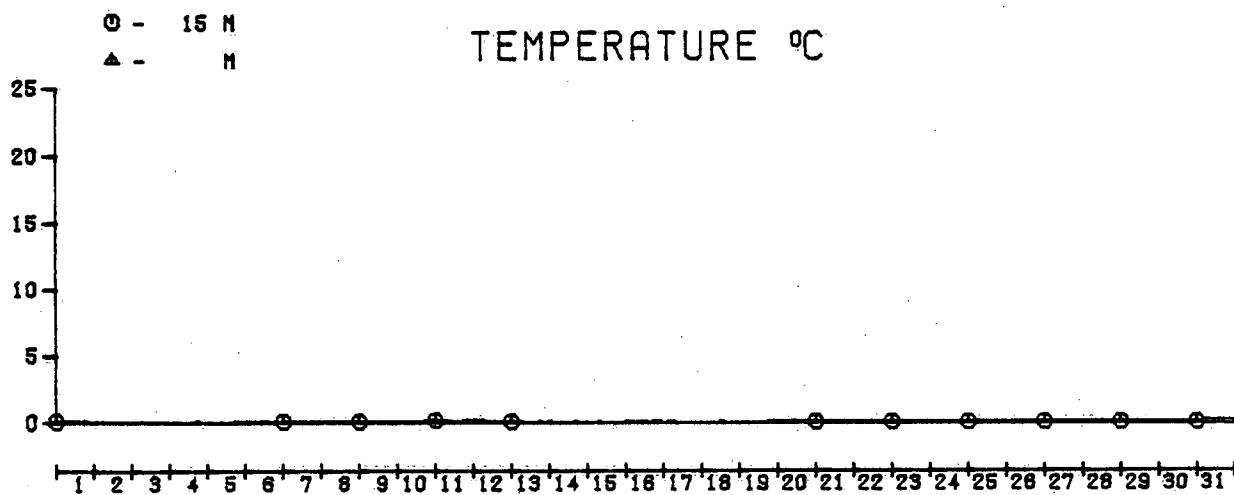


DEPTH: 25 m

MOORING: 75-5C-06 DATE: MAR 1976



DEPTH: 25 M

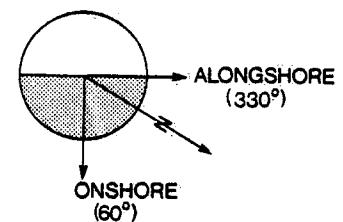
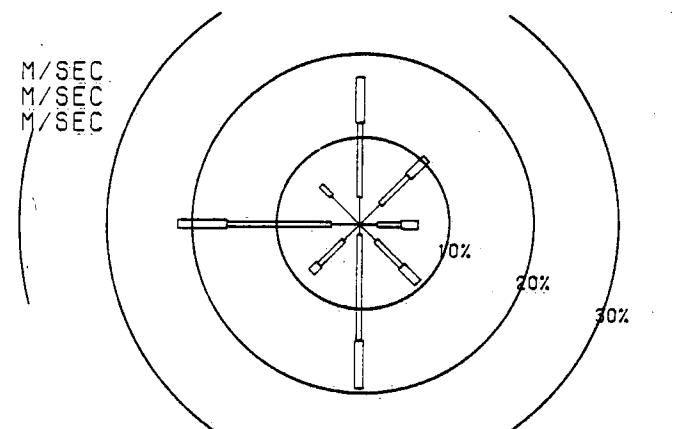


MOORING: 6 DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

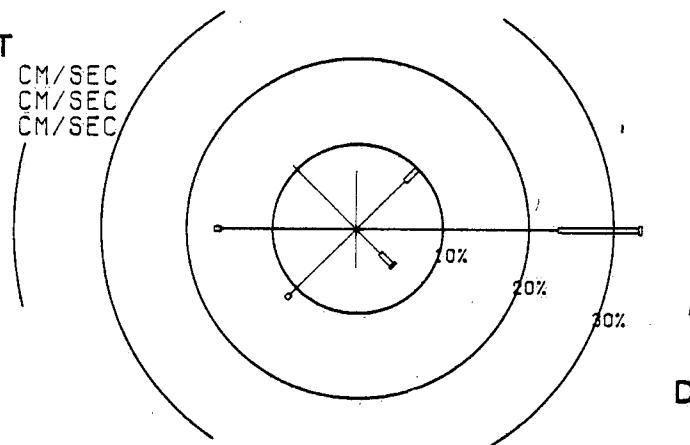
WIND

— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC

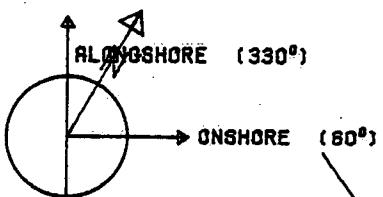


DEPTH: 43 m

DEPTH: m

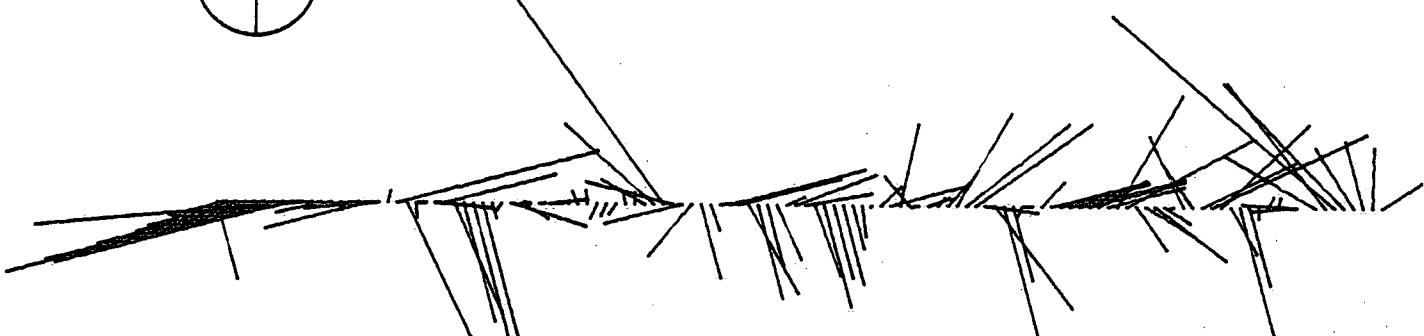
*DIRECTION TOWARDS

MOORING: 75-5C-06 DATE: MAR 1976



WINDSPEED²

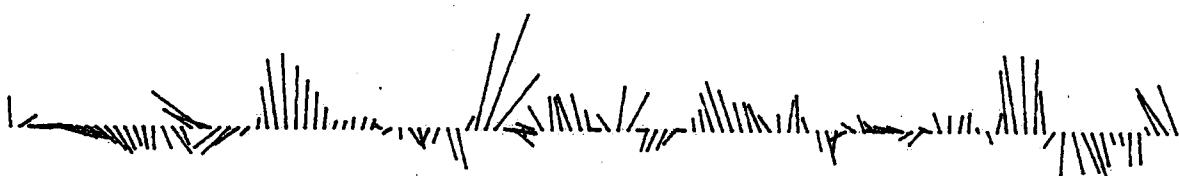
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

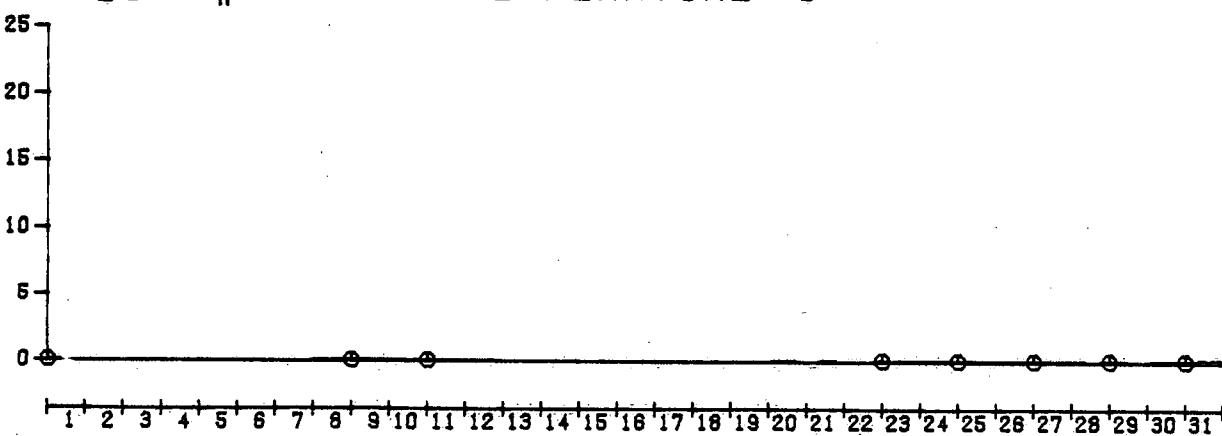
DEPTH: 43 M



DEPTH: M

○ - 43 M
△ - M

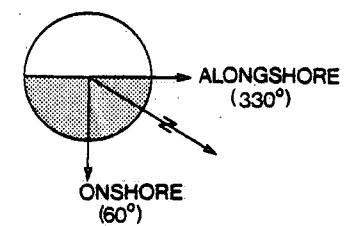
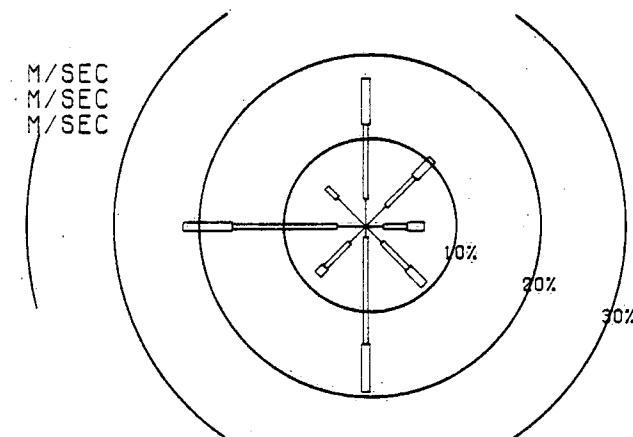
TEMPERATURE °C



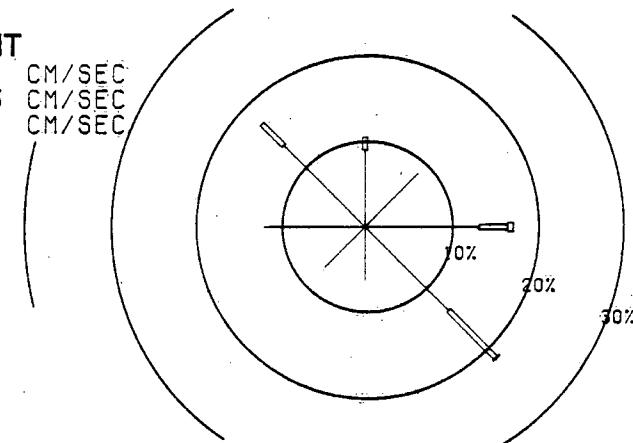
MOORING: 7 DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

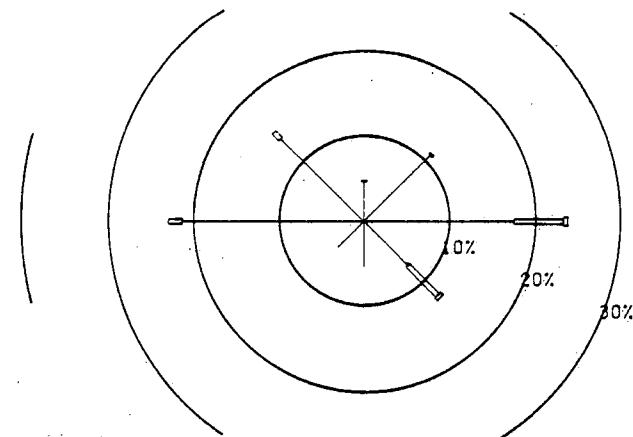


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



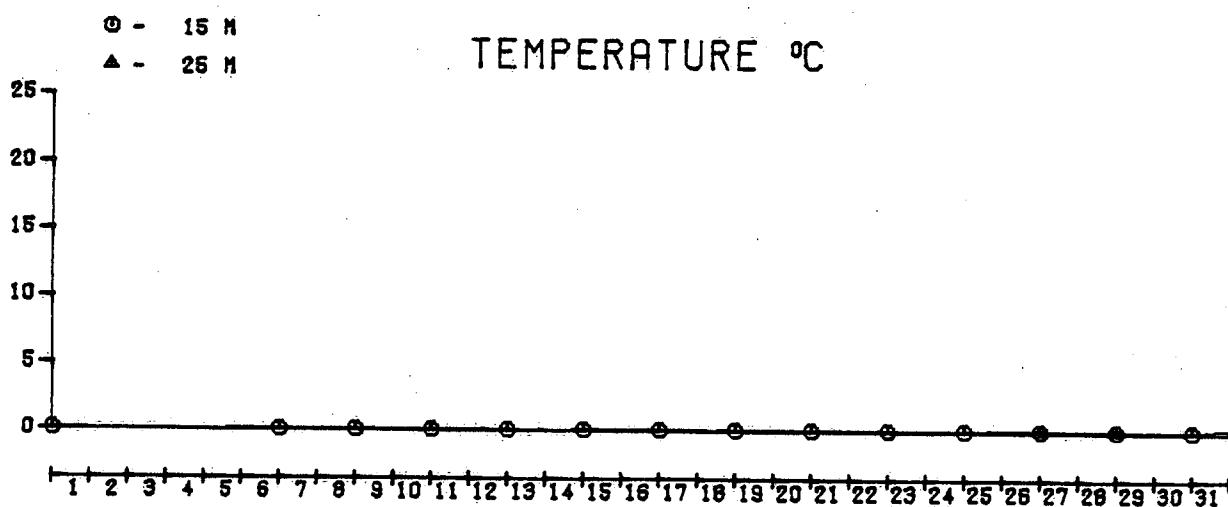
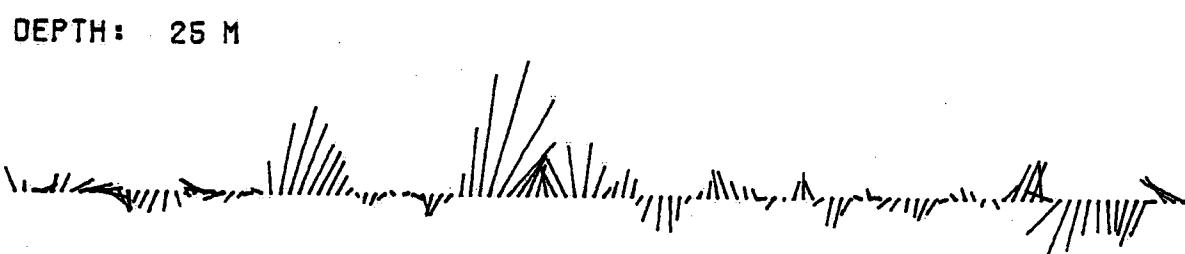
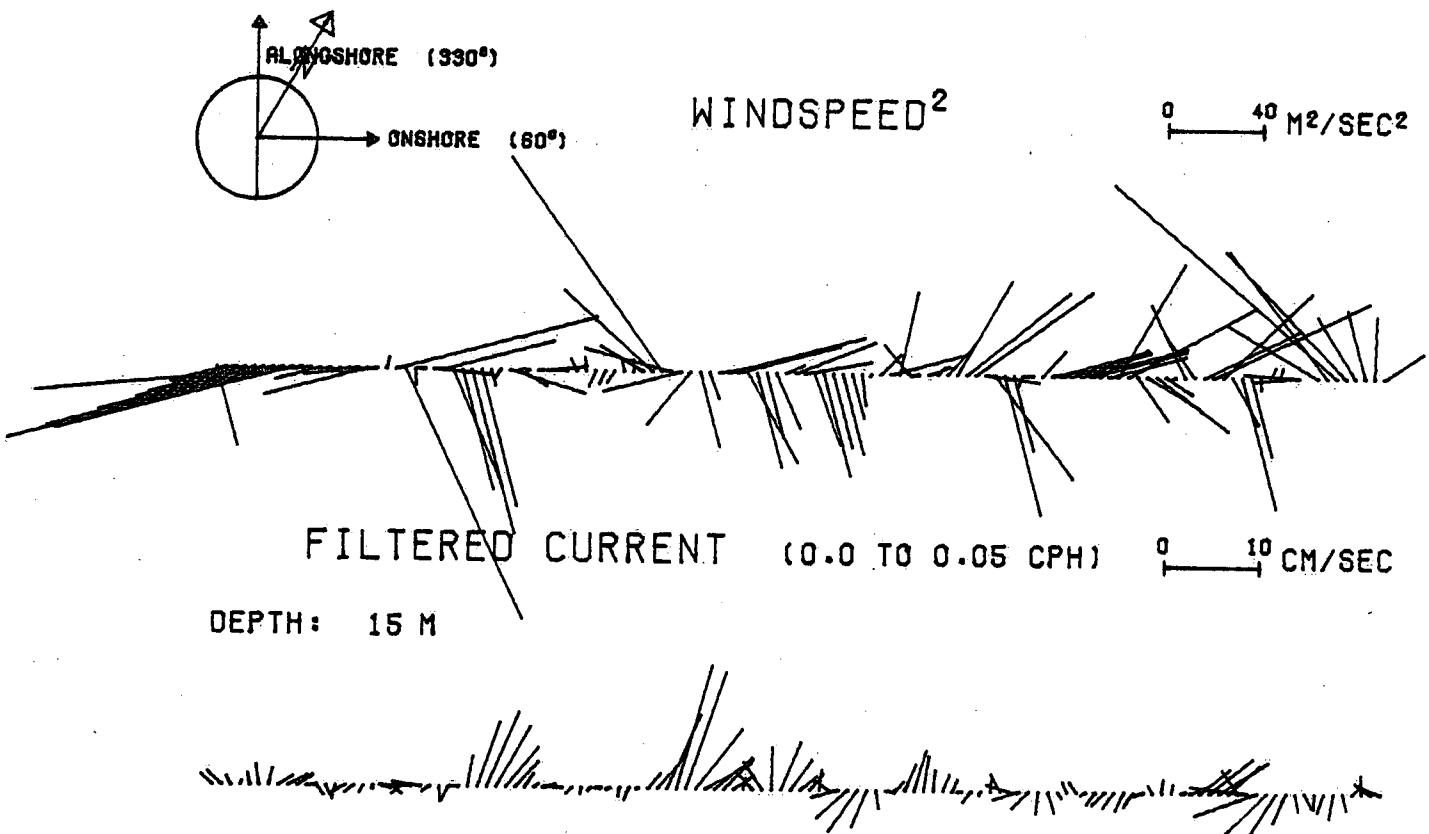
DEPTH: 15 m

*DIRECTION TOWARDS



DEPTH: 25 m

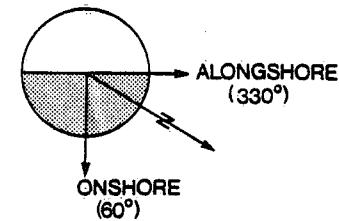
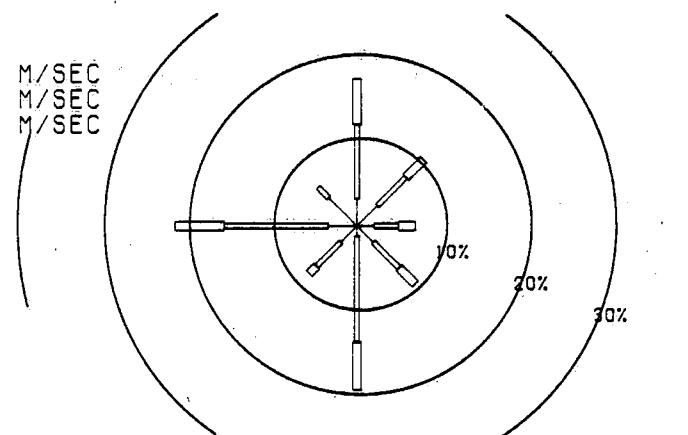
MOORING: 75-5C-07 DATE: MAR 1976



MOORING: 7 DATE: MAR 1976

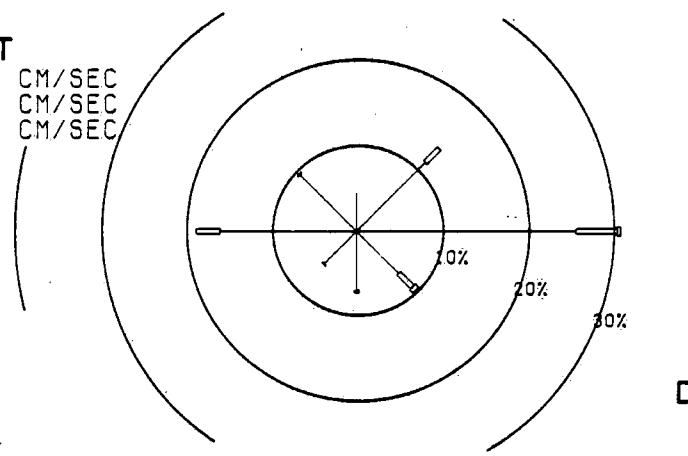
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC

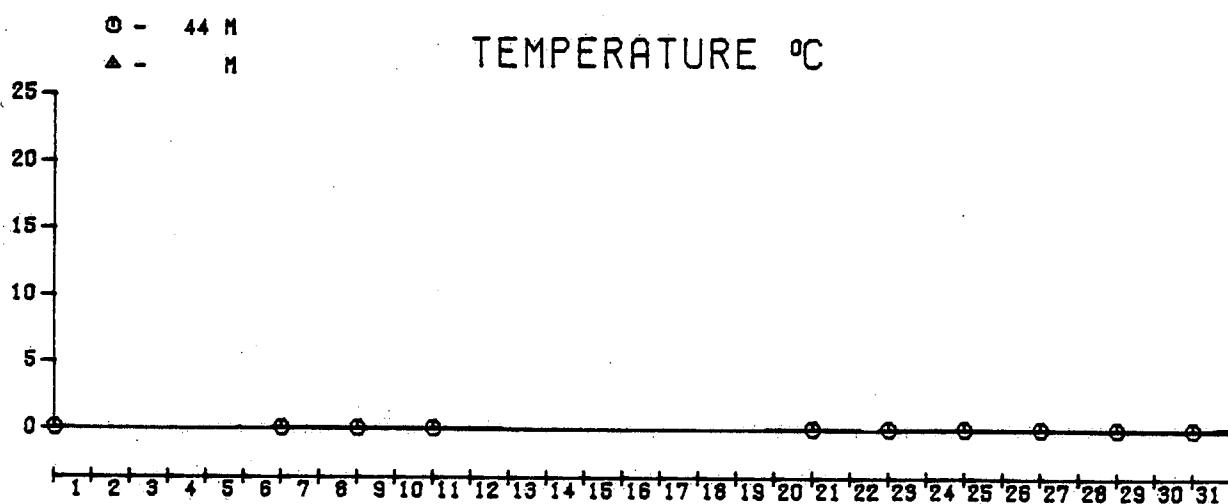
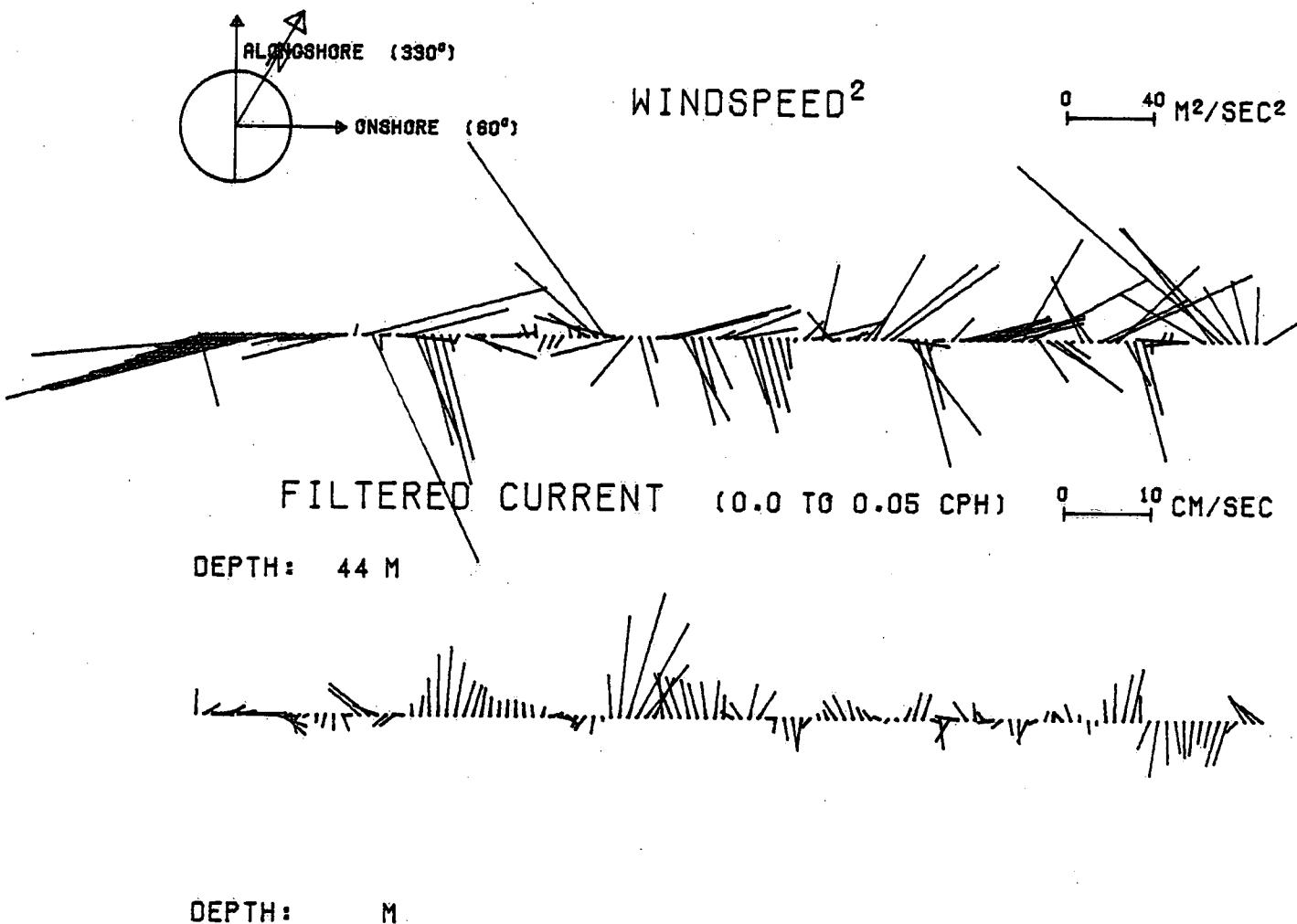


DEPTH: 44 m

DEPTH: m

*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: MAR 1976



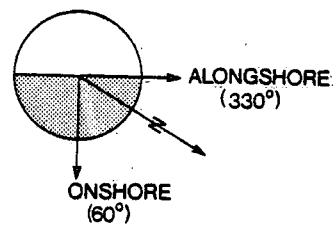
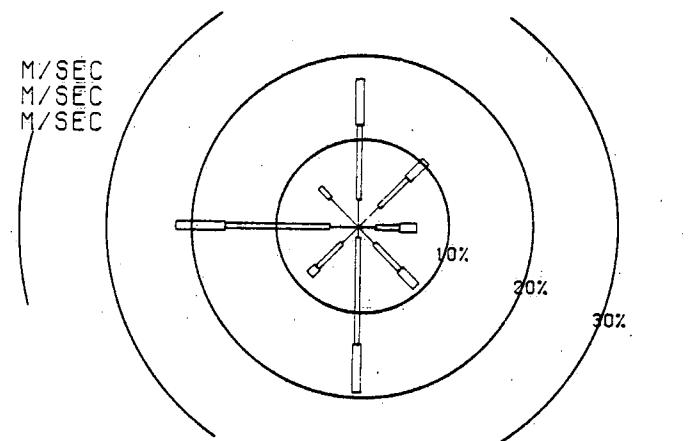
MOORING: 8

DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

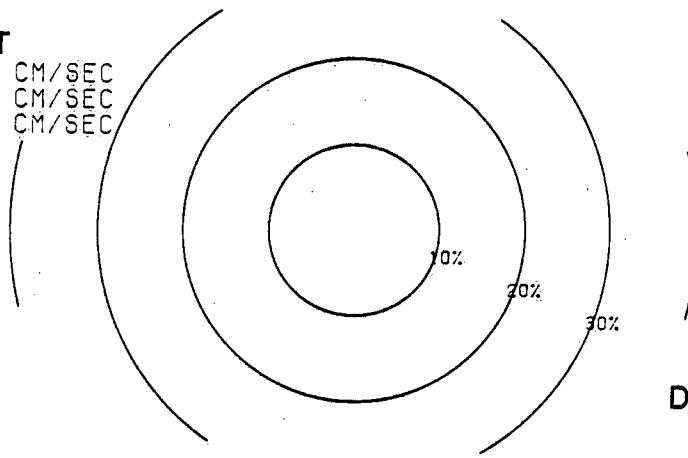
WIND

— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

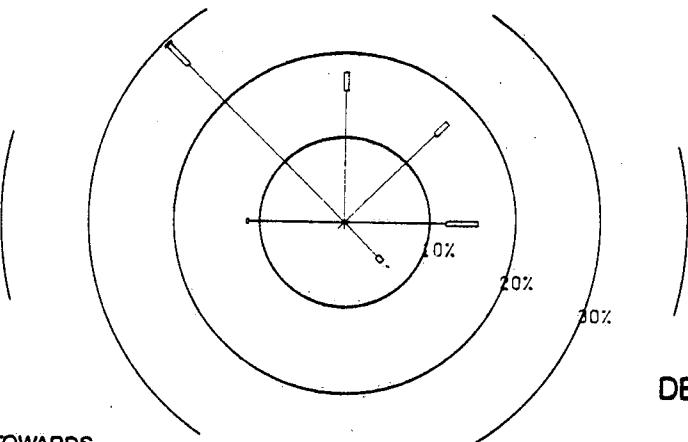


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



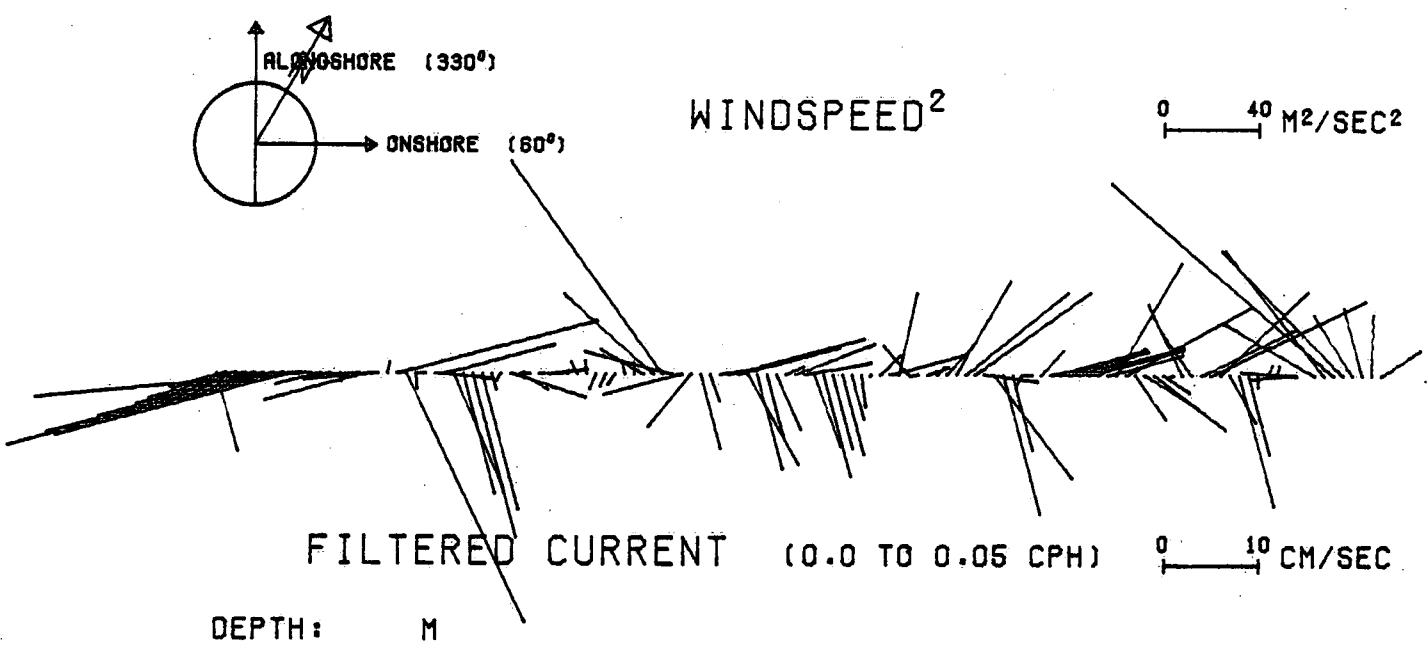
DEPTH: m



DEPTH: 25 m

*DIRECTION TOWARDS

MOORING: 75-5C-08 DATE: MAR 1976

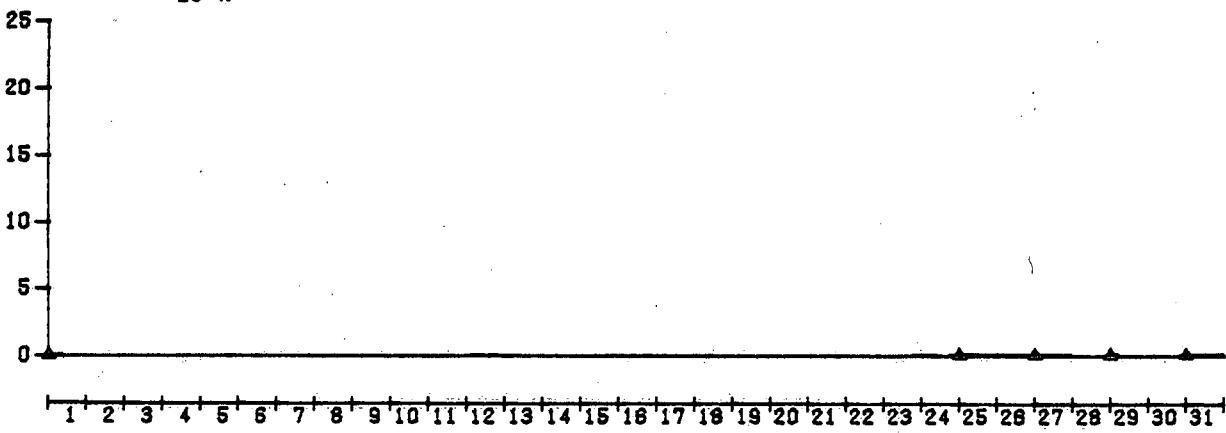


DEPTH: 25 M



○ - M
△ - 25 M

TEMPERATURE °C

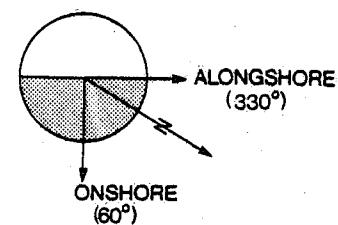
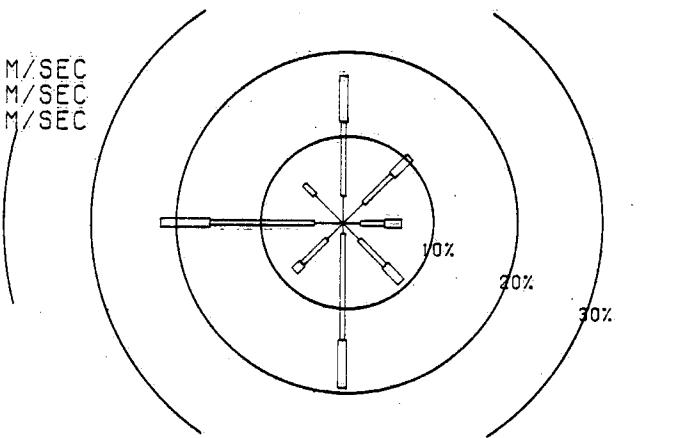


MOORING: 18

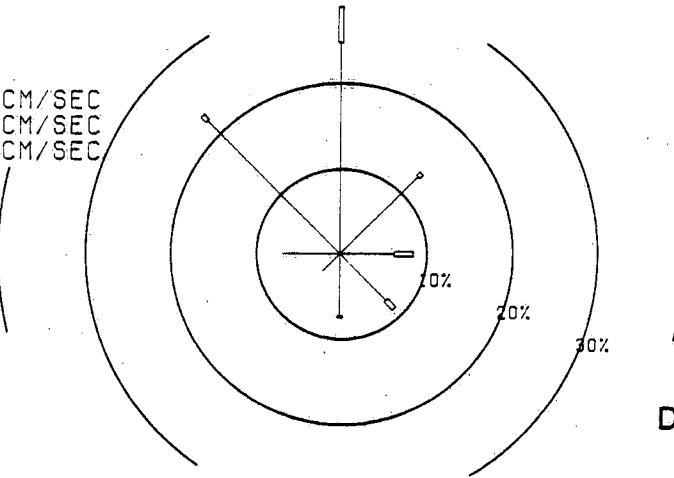
DATE: MAR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

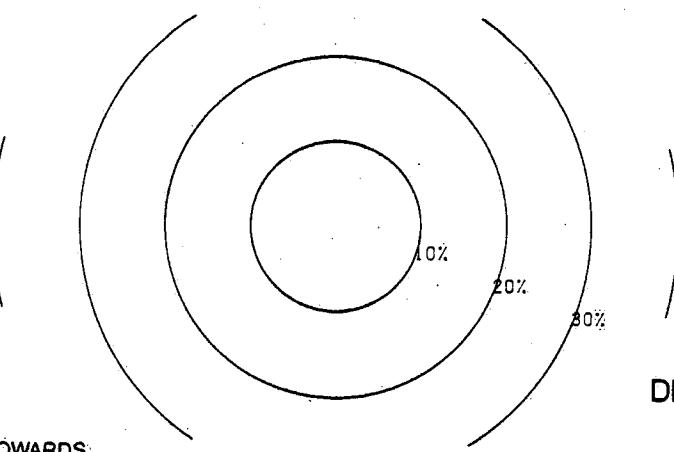


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



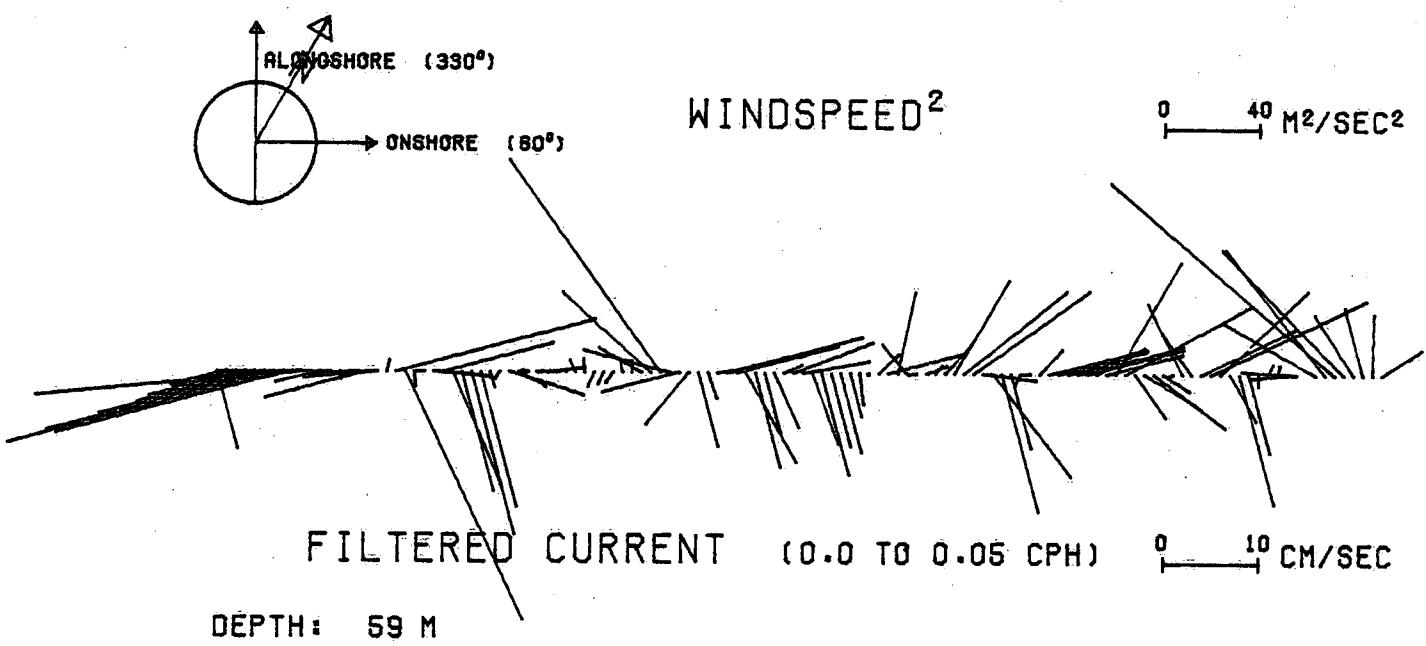
DEPTH: 59 m

*DIRECTION TOWARDS

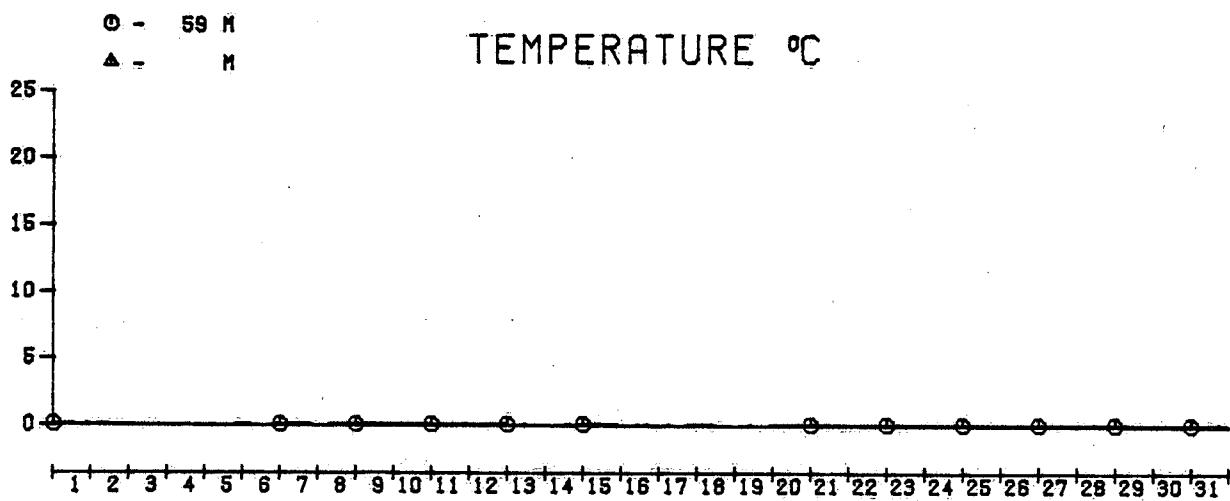


DEPTH: m

MOORING: 75-5C-08 DATE: MAR 1976



DEPTH: M

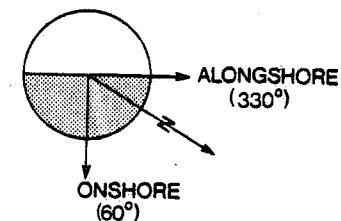
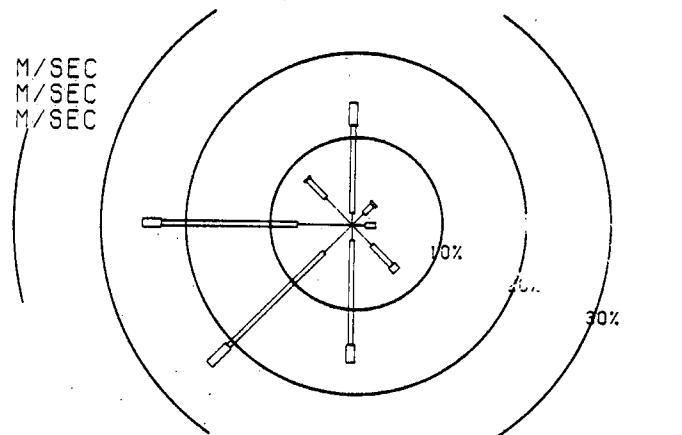


MOORING: 1

DATE: APR 1976

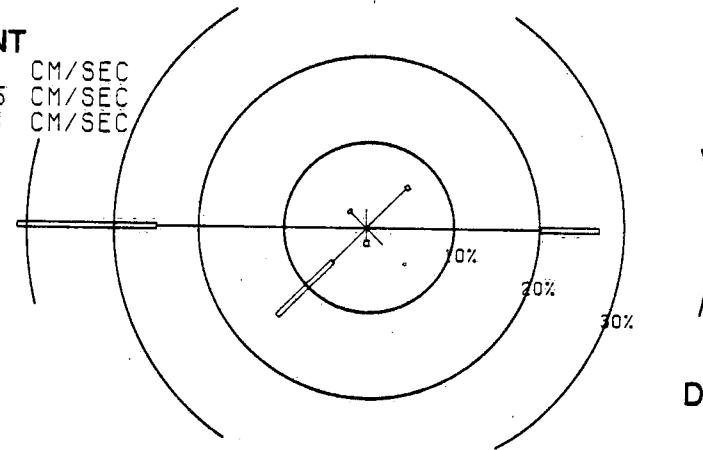
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



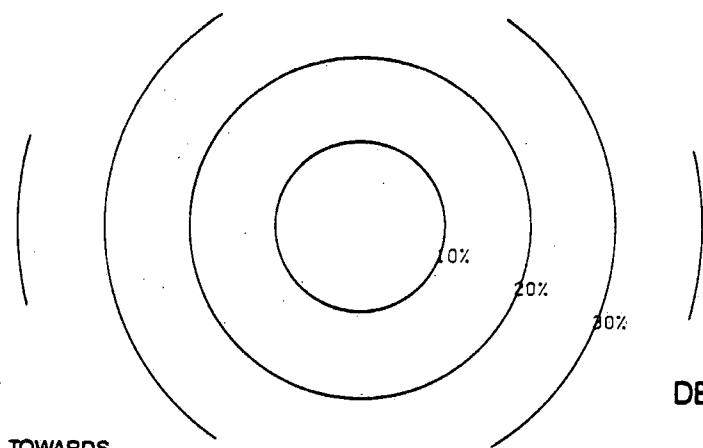
CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



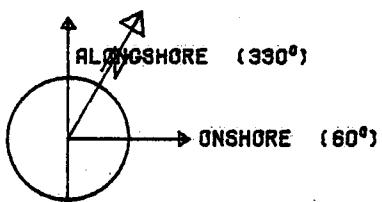
DEPTH: 15 m

*DIRECTION TOWARDS



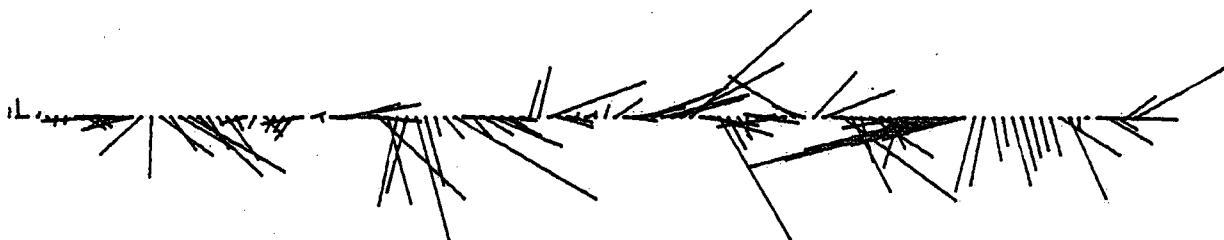
DEPTH: m

MOORING: 75-5C-01 DATE: APR 1976



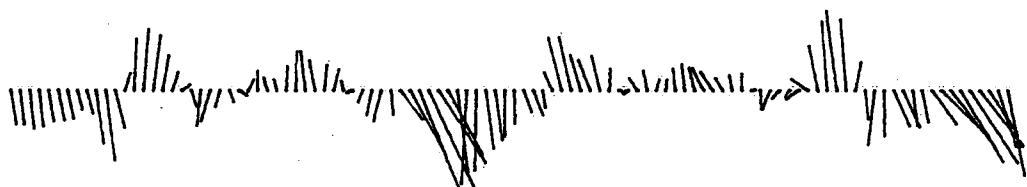
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M



DEPTH: M

Φ - 15 M
△ - M

TEMPERATURE °C

25

20

15

10

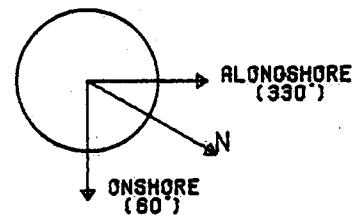
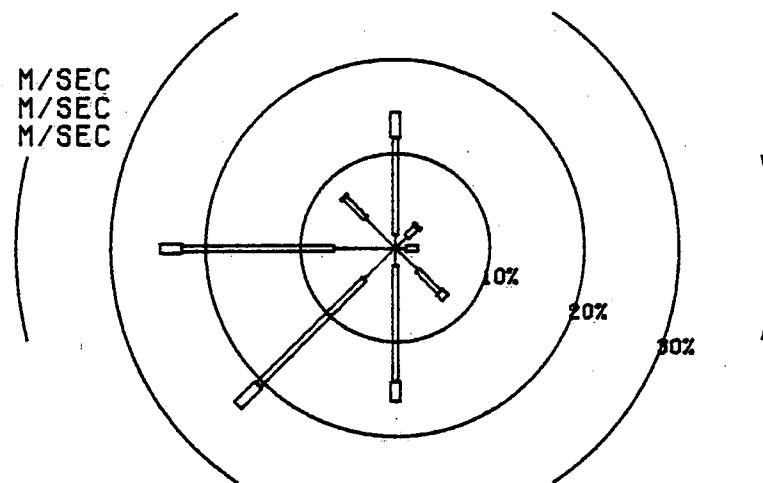
5

0

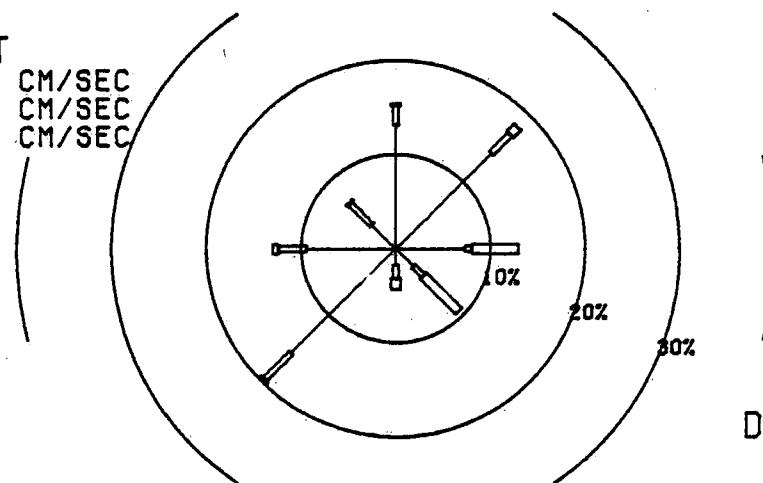
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

MOORING: 2 DATE: APR 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



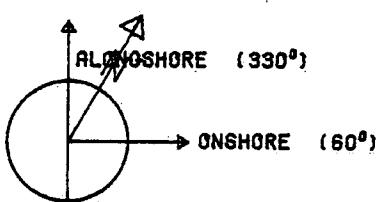
CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 M

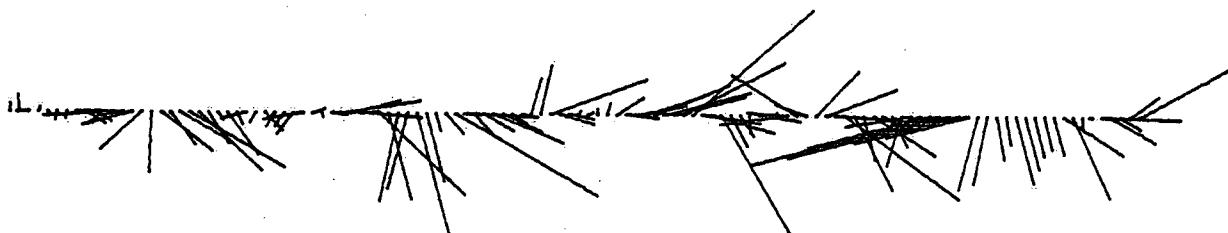
* DIRECTION TOWARDS

MOORING: 75-5C-02 DATE: APR 1976



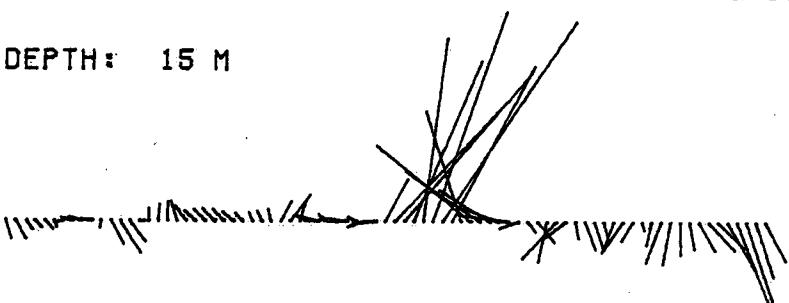
WINDSPEED²

0 40 M²/SEC²

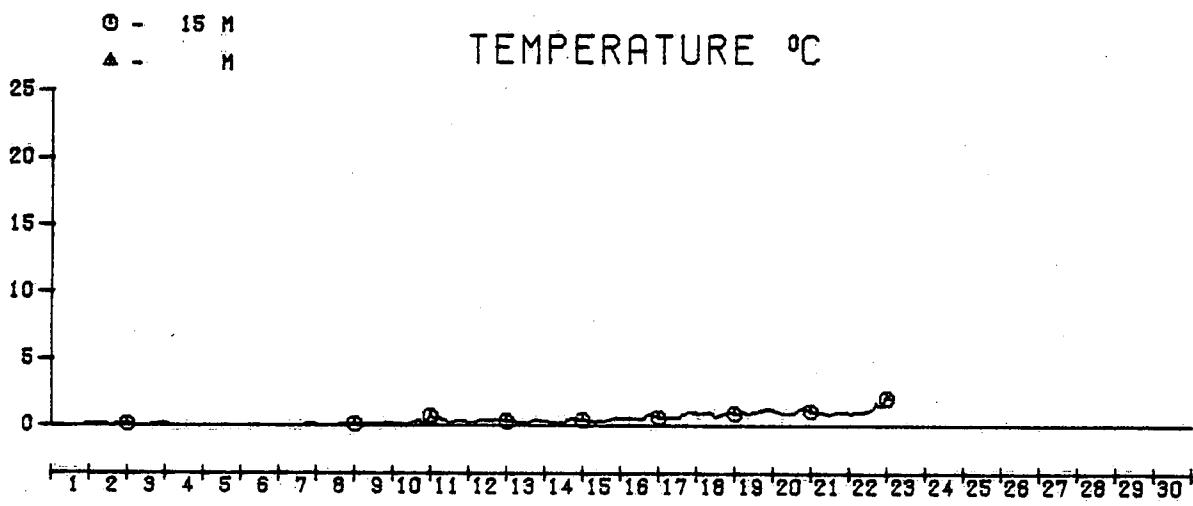


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M



DEPTH: M

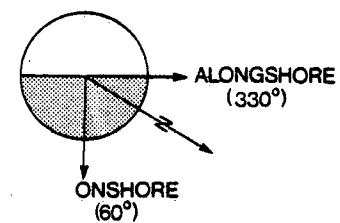
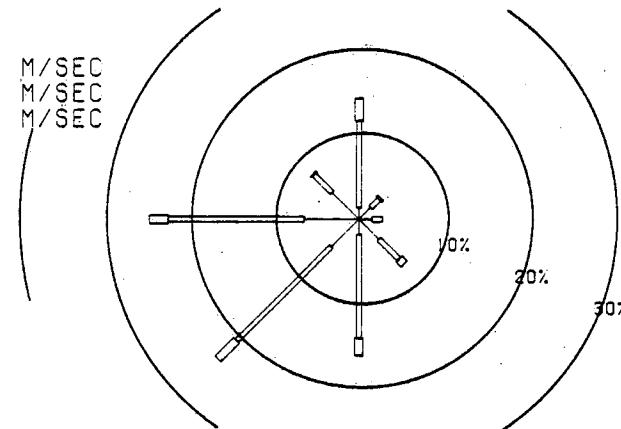


MOORING: 3

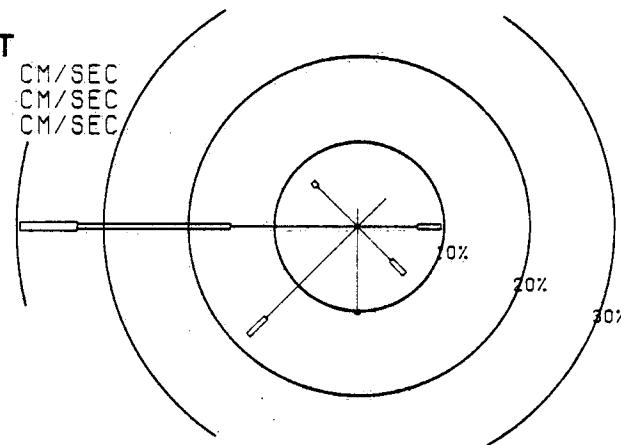
DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

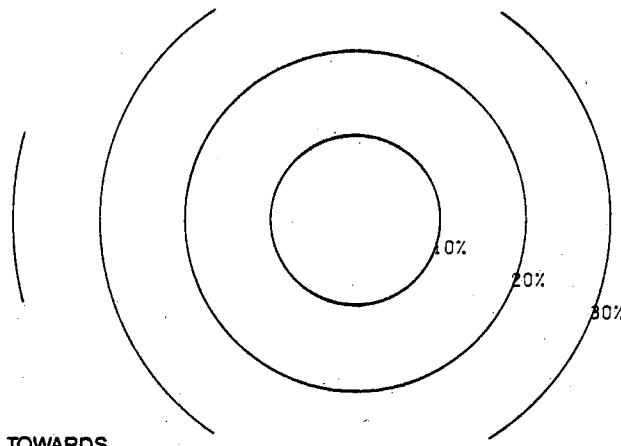
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



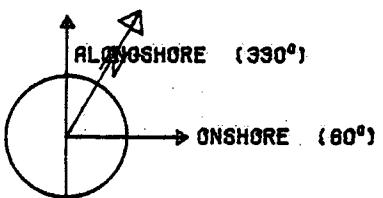
DEPTH: 15 m



DEPTH: m

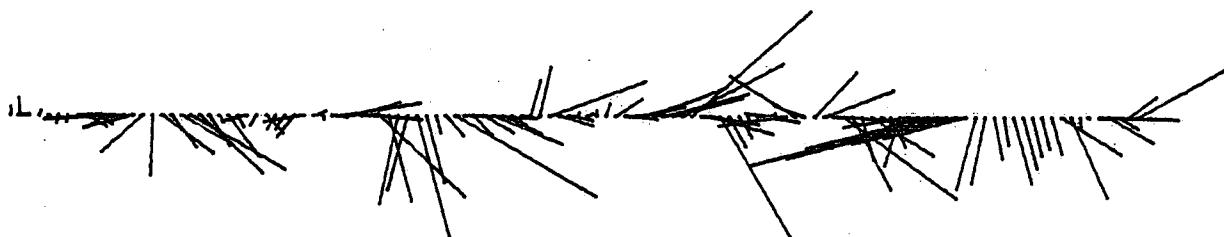
*DIRECTION TOWARDS

MOORING: 75-5C-03 DATE: APR 1976



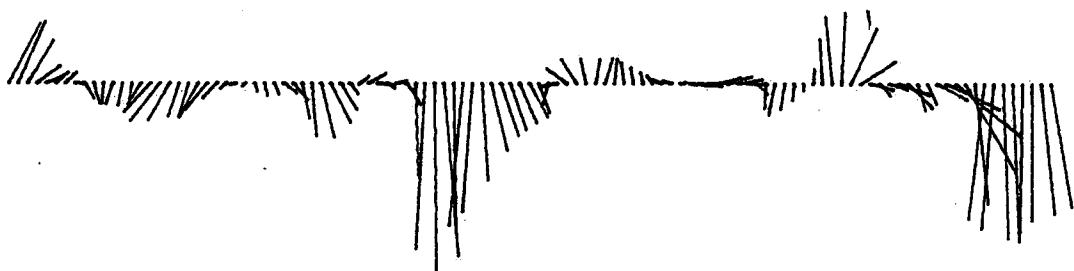
WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

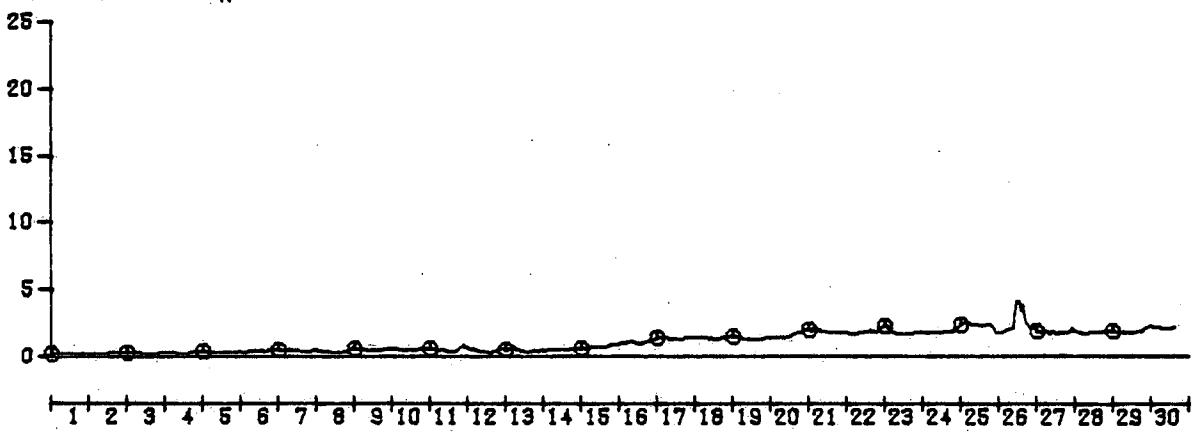
DEPTH: 15 M



DEPTH: M

○ - 15 M
△ - M

TEMPERATURE °C

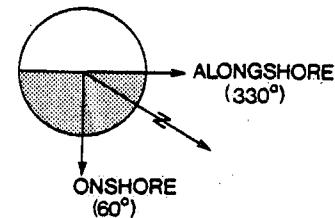
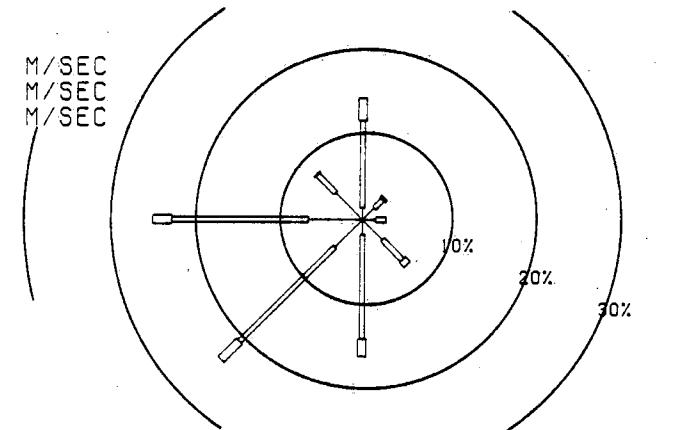


MOORING: 4

DATE: APR 1976

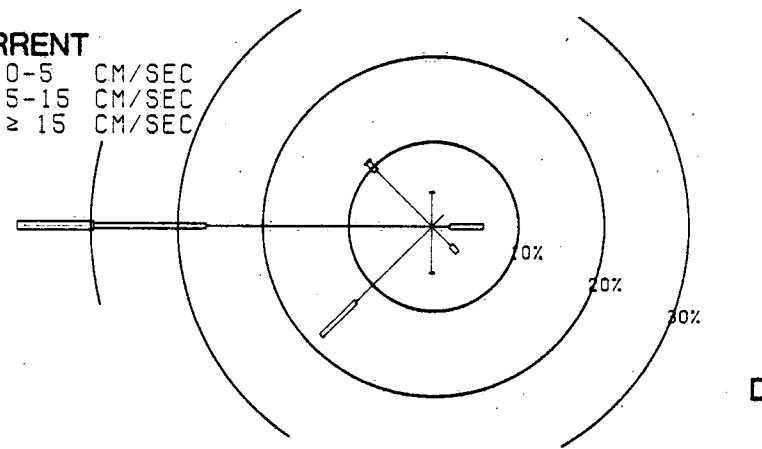
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



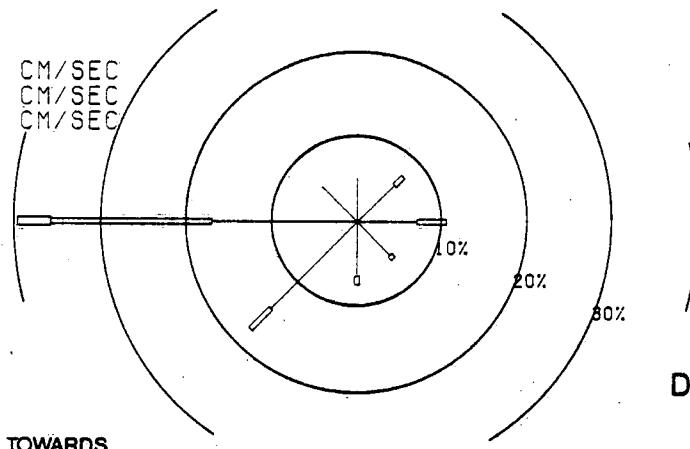
CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

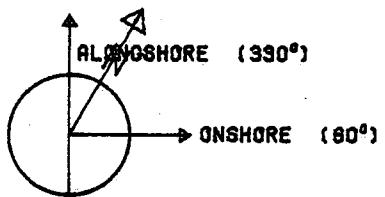
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 31 m

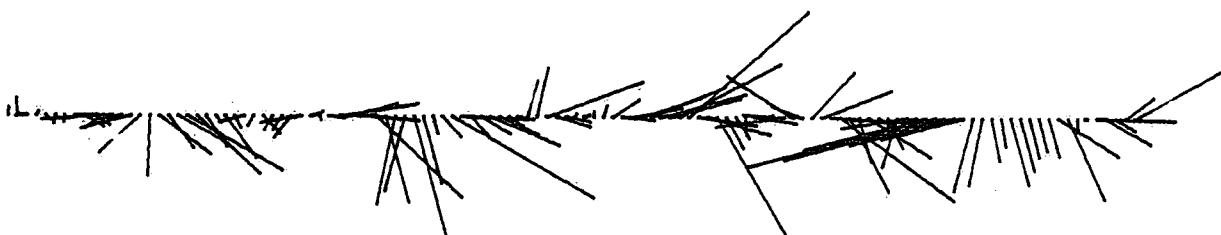
*DIRECTION TOWARDS

MOORING: 75-5C-04 DATE: APR 1976



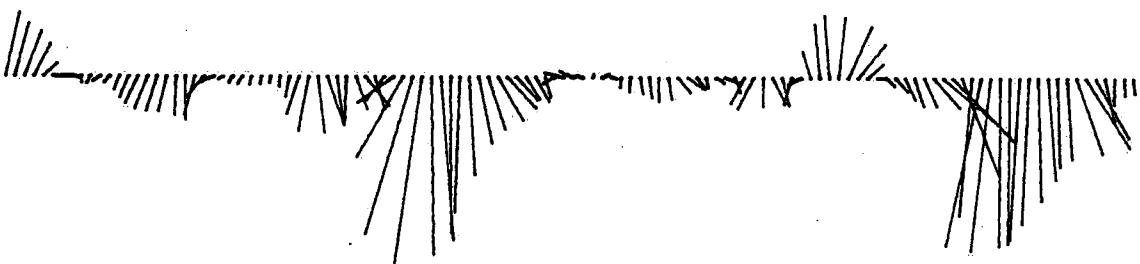
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M

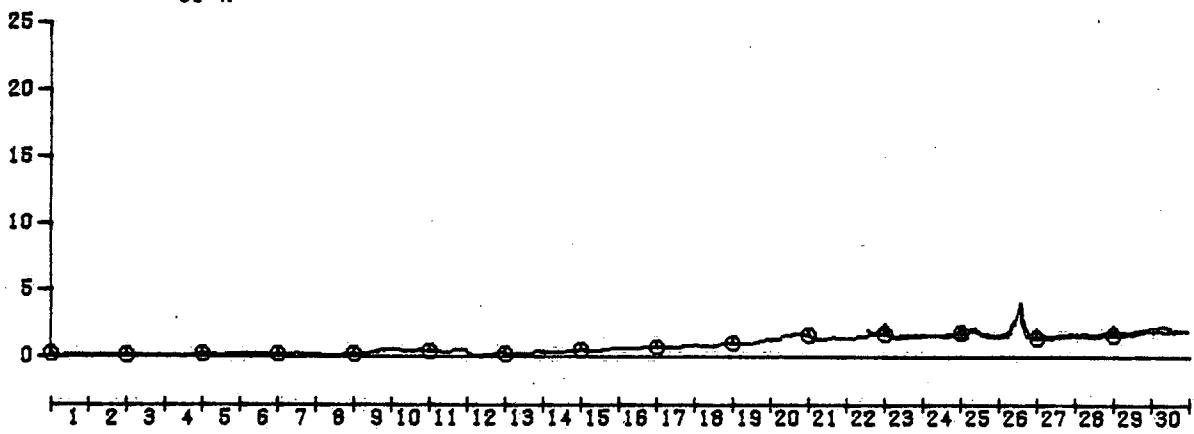


DEPTH: 31 M



○ - 15 M
△ - 31 M

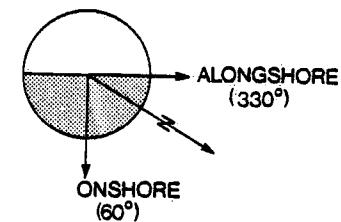
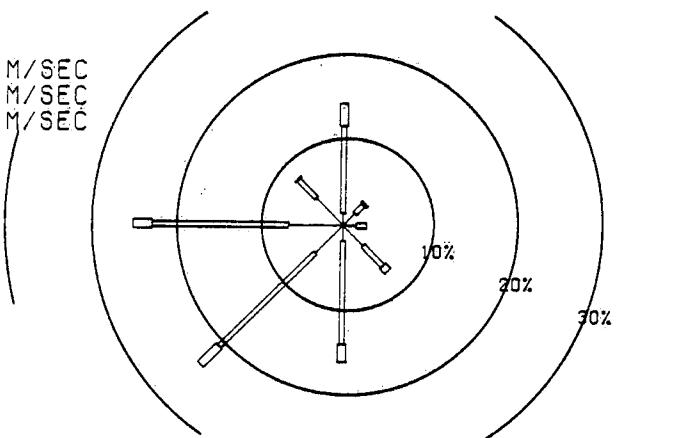
TEMPERATURE °C



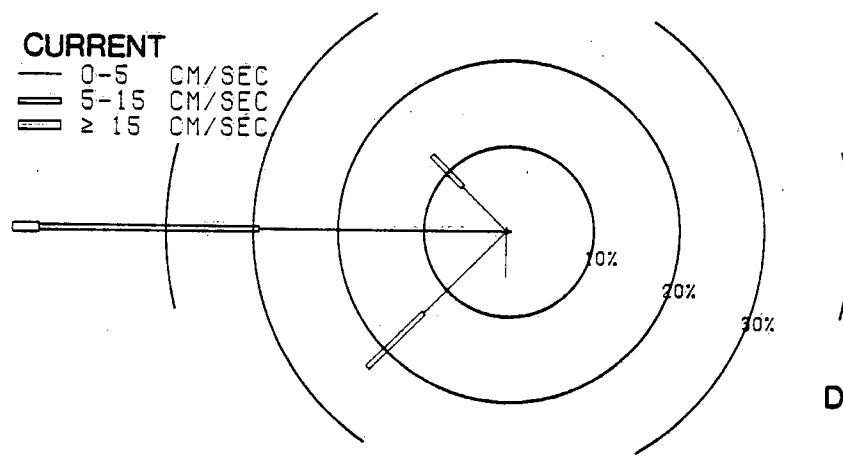
MOORING: 5 DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

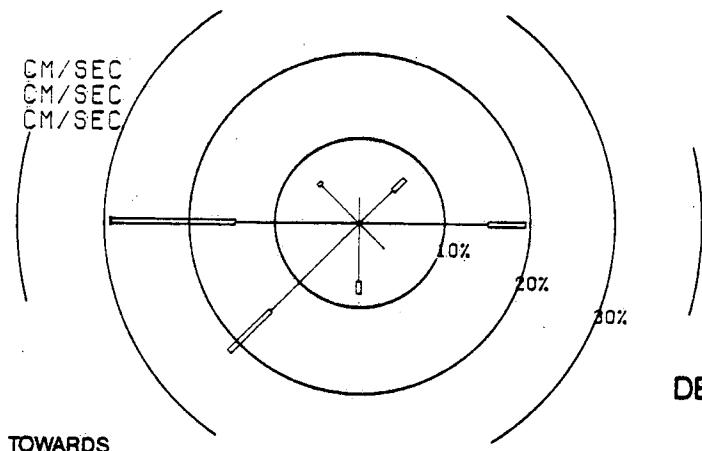


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 15 m

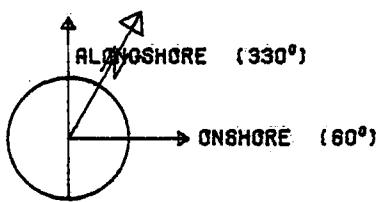
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 35 m

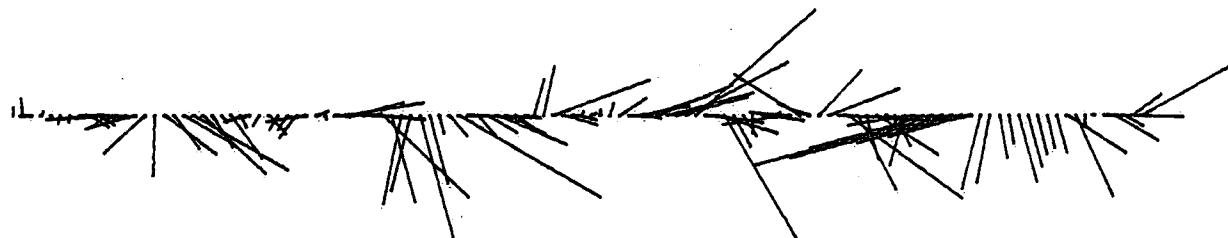
*DIRECTION TOWARDS

MOORING: 75-5C-05 DATE: APR 1976



WINDSPEED²

0 M^2/SEC^2 40



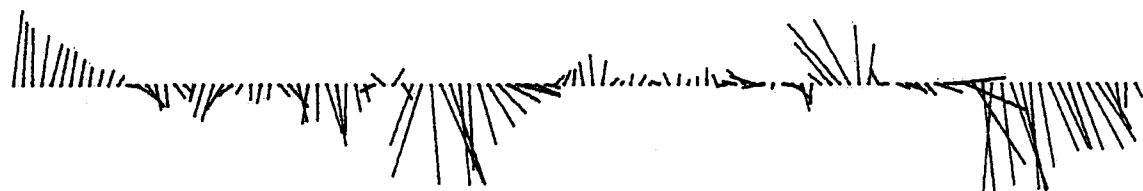
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC 10

DEPTH: 15 M



DEPTH: 35 M



○ - 15 M

△ - 35 M

TEMPERATURE °C

25

20

15

10

5

0

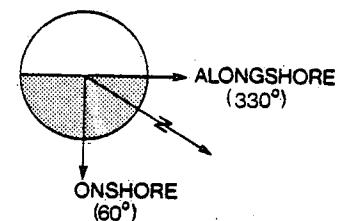
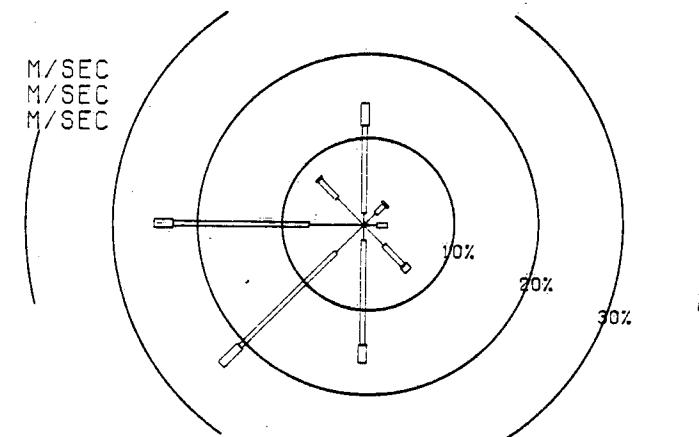
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

MOORING: 6 DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

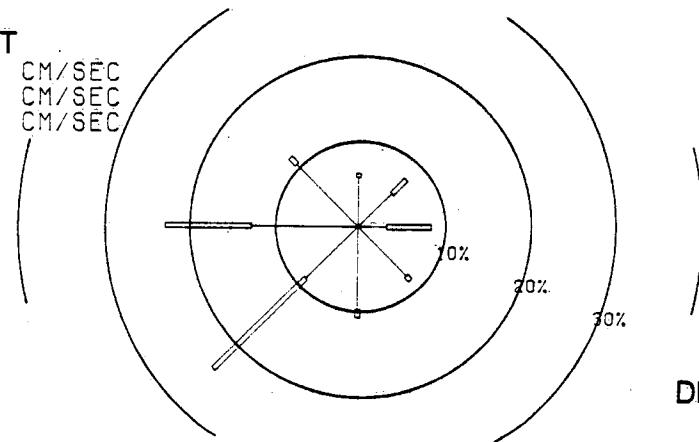
WIND

— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

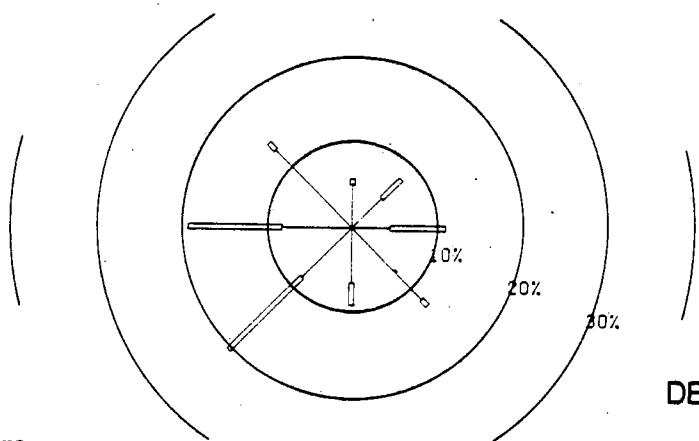


CURRENT

— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



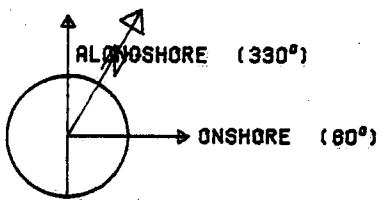
DEPTH: 15 m



DEPTH: 25 m

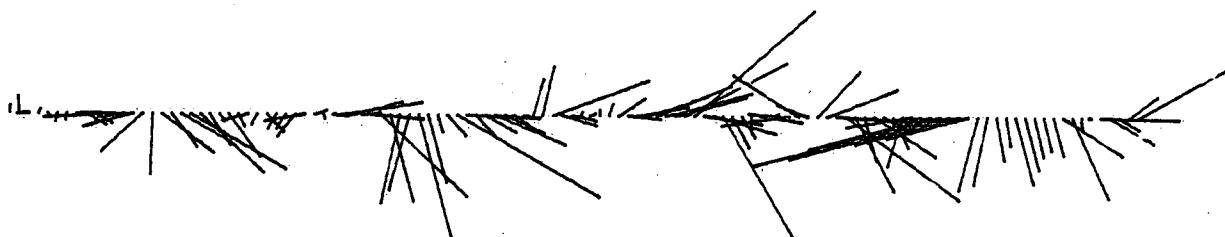
*DIRECTION TOWARDS

MOORING: 75-5C-06 DATE: APR 1976



WINDSPEED²

0 M^2/SEC^2

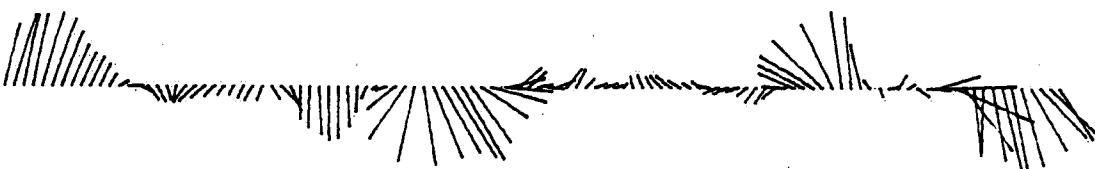


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

DEPTH: 15 M

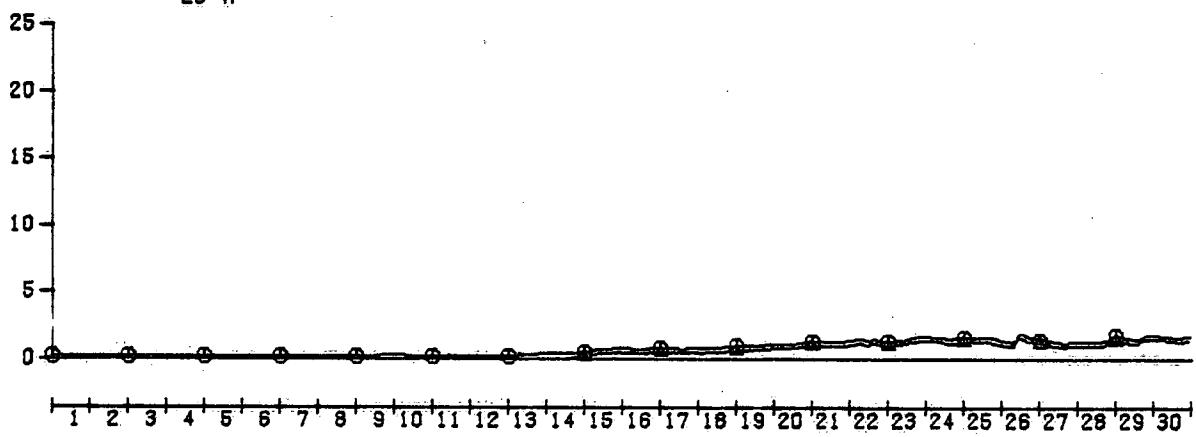


DEPTH: 25 M



○ - 15 M
△ - 25 M

TEMPERATURE °C

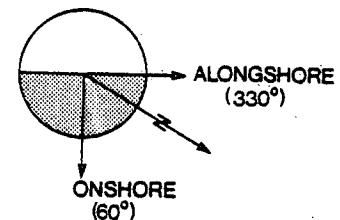
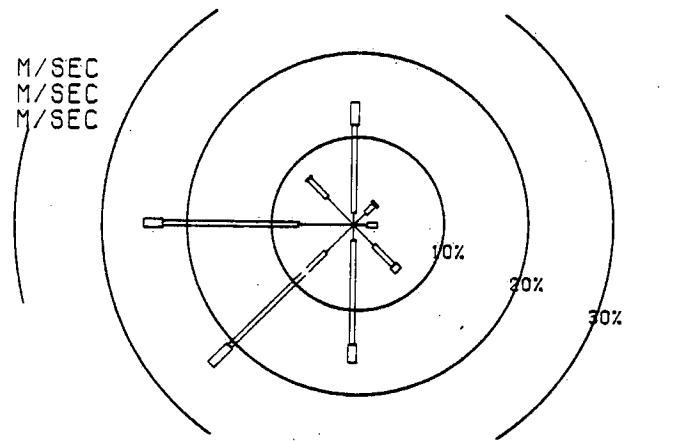


MOORING: 6

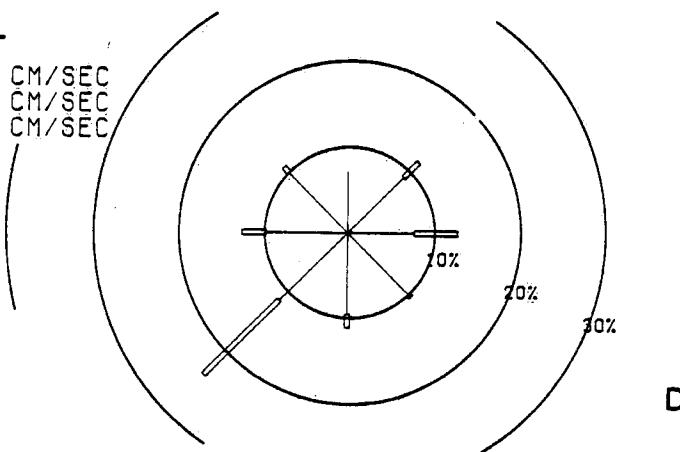
DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

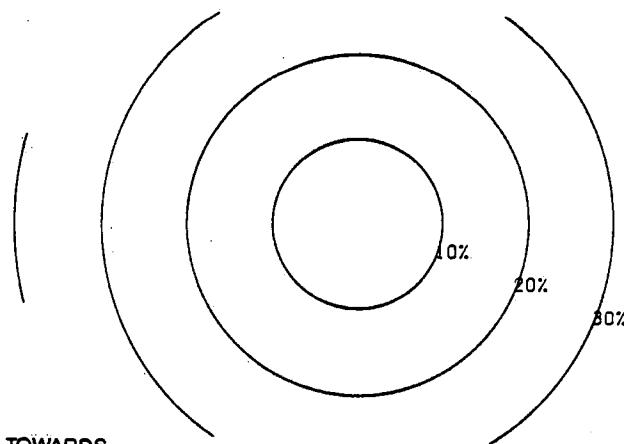
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



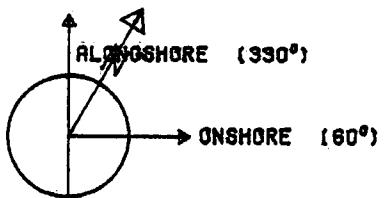
DEPTH: 43 m



DEPTH: m

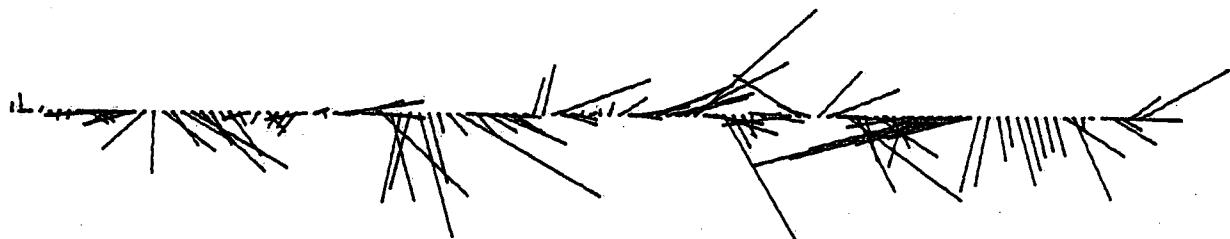
*DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: APR 1976



WINDSPEED²

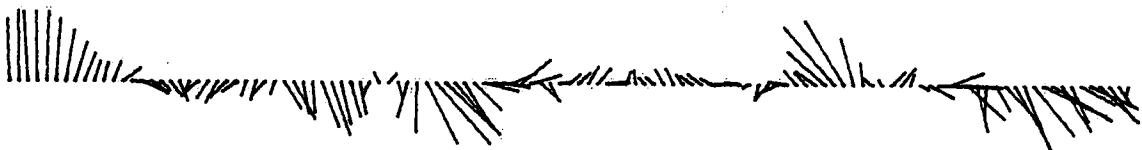
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

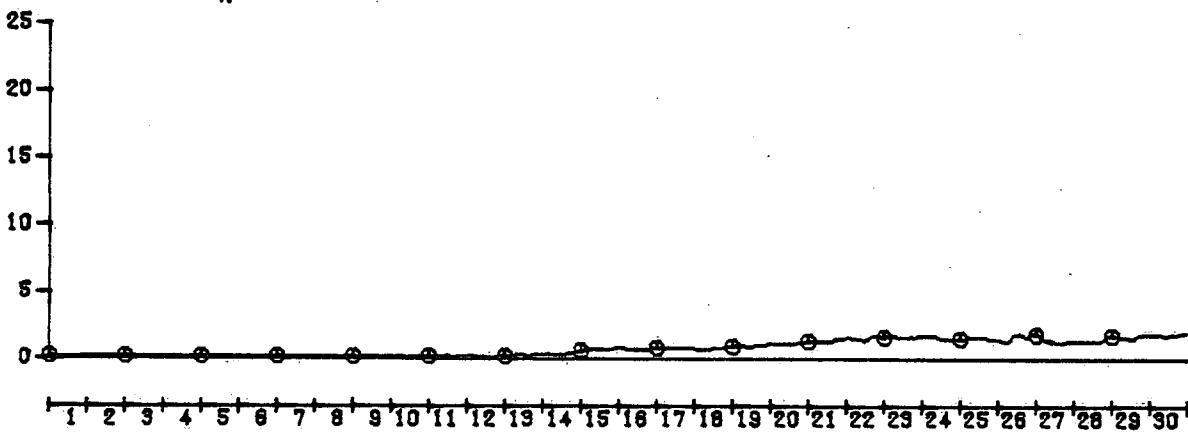
DEPTH: 43 M



DEPTH: M

○ - 49 M
△ - M

TEMPERATURE °C

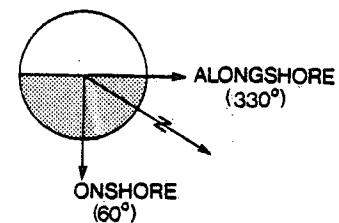
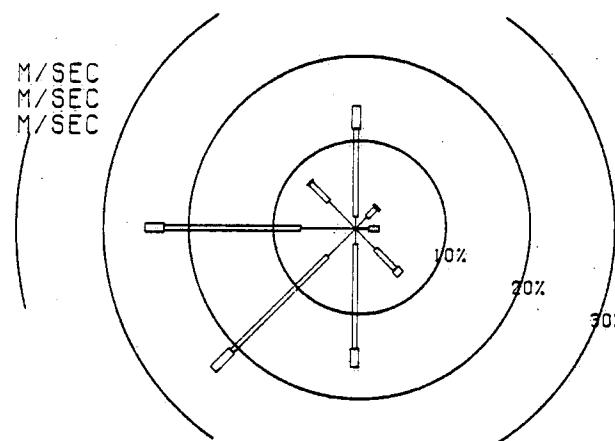


MOORING: 7

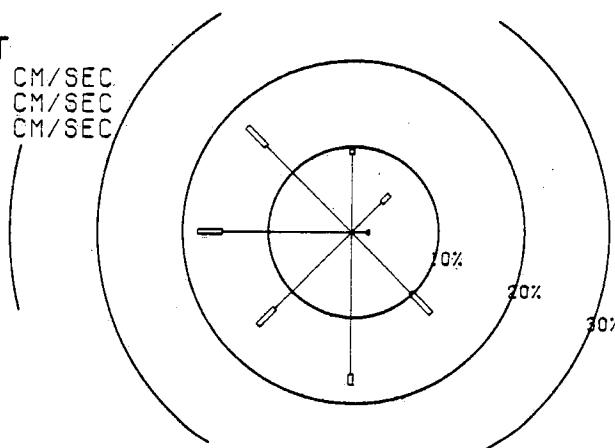
DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

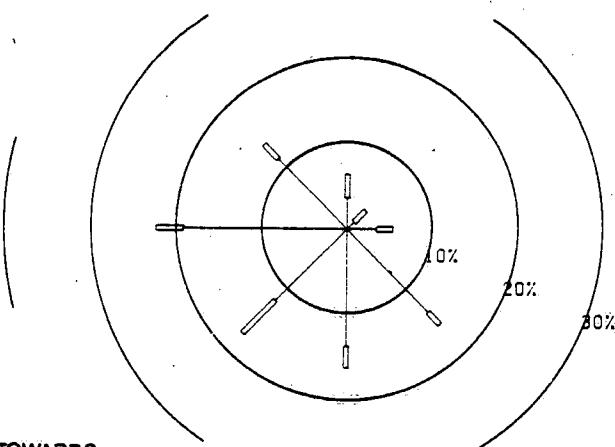
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



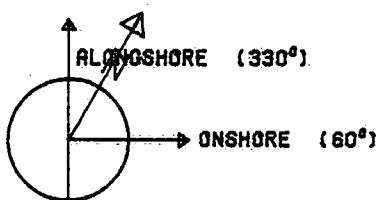
DEPTH: 15 m



DEPTH: 25 m

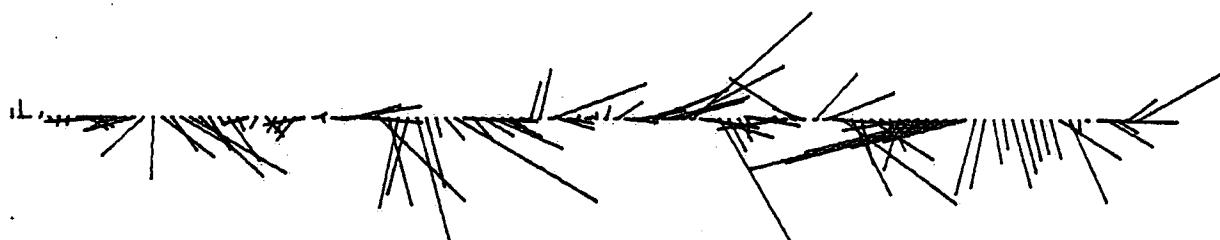
*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: APR 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M

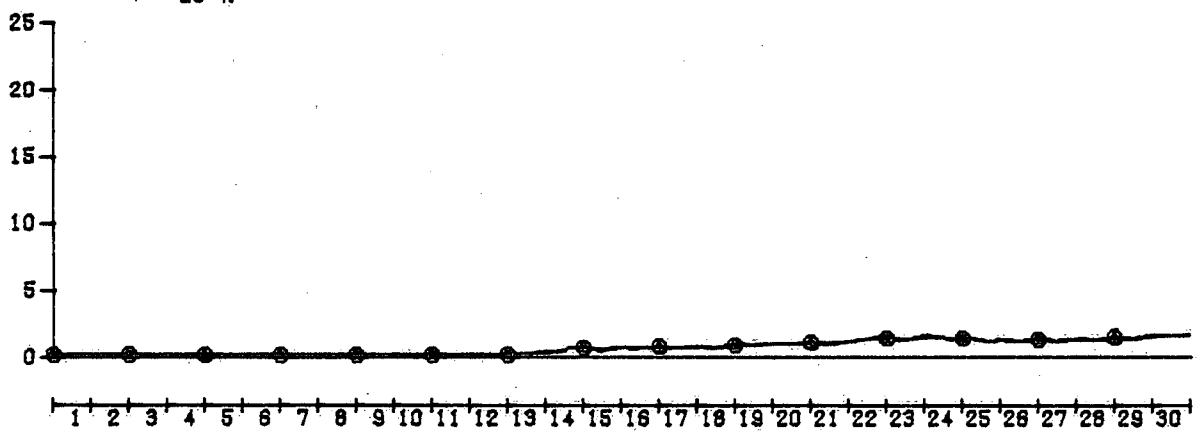


DEPTH: 25 M



○ - 15 M
△ - 25 M

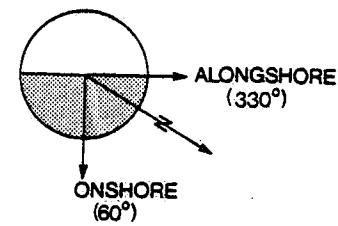
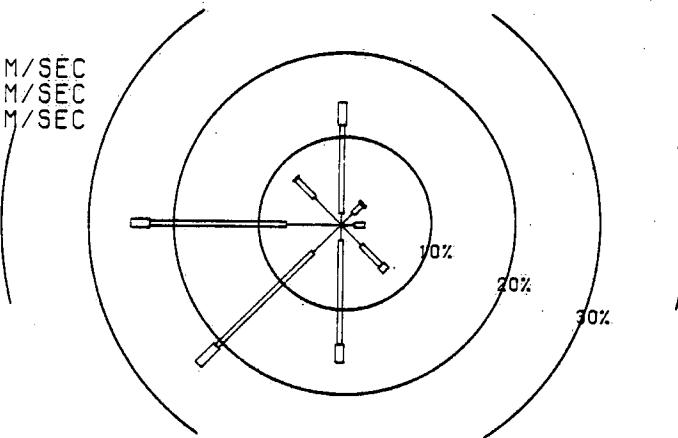
TEMPERATURE °C



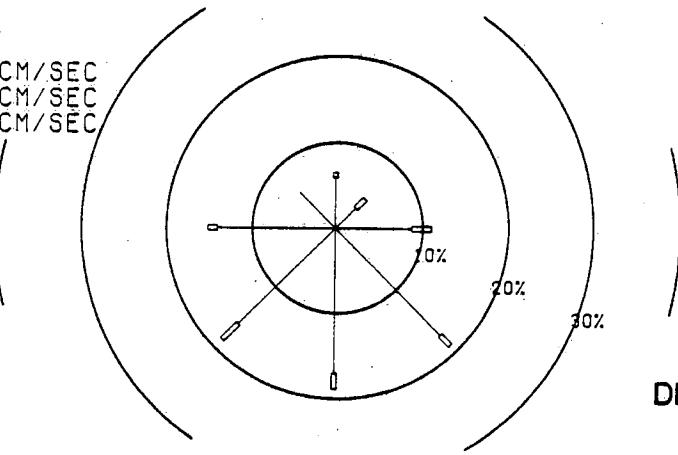
MOORING: 7 DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

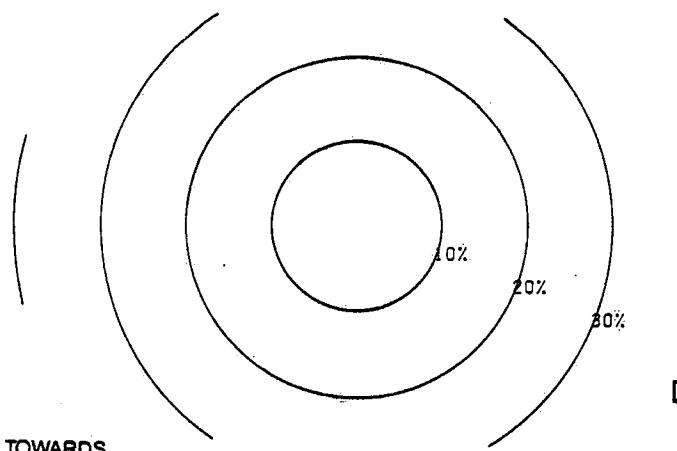
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



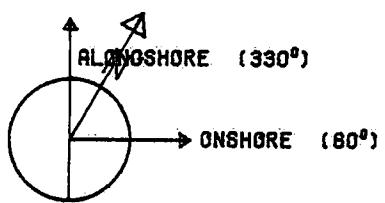
DEPTH: 44 m



DEPTH: m

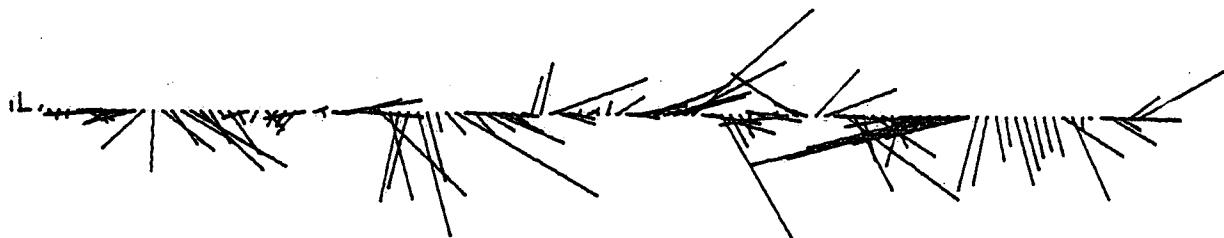
*DIRECTION TOWARDS

MOORING: 75-5C-07 DATE: APR 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

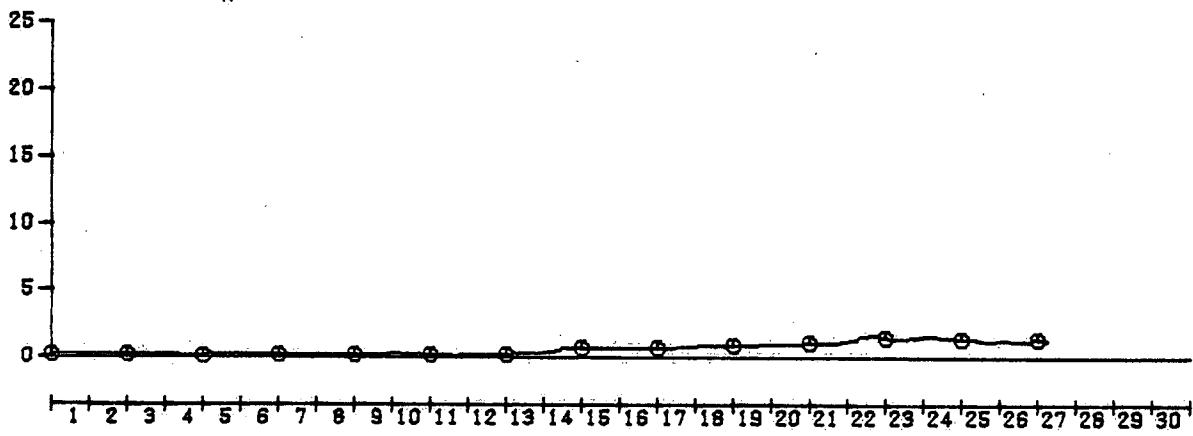
DEPTH: 44 M



DEPTH: M

Θ - 44 M
Δ - M

TEMPERATURE °C

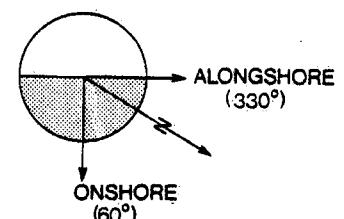
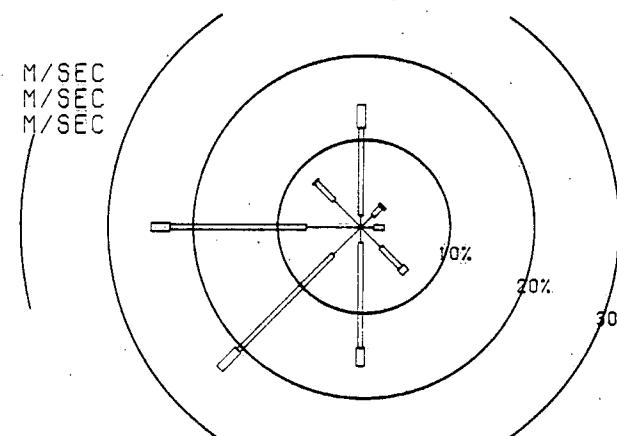


MOORING: 8

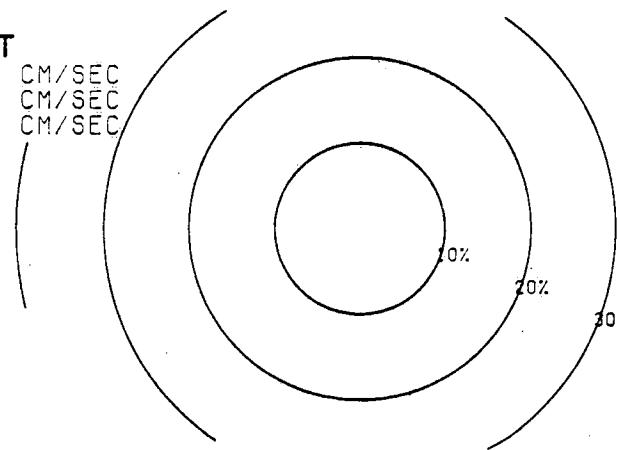
DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

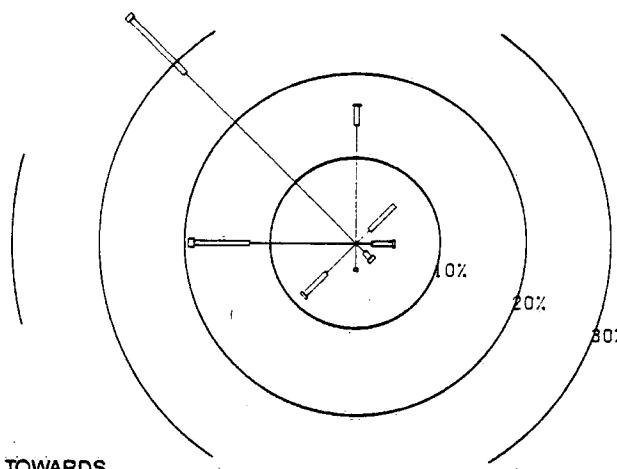
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



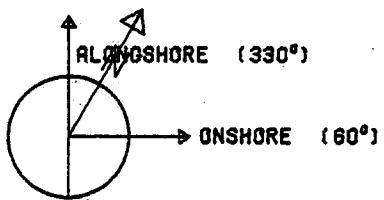
DEPTH: m



DEPTH: 25 m

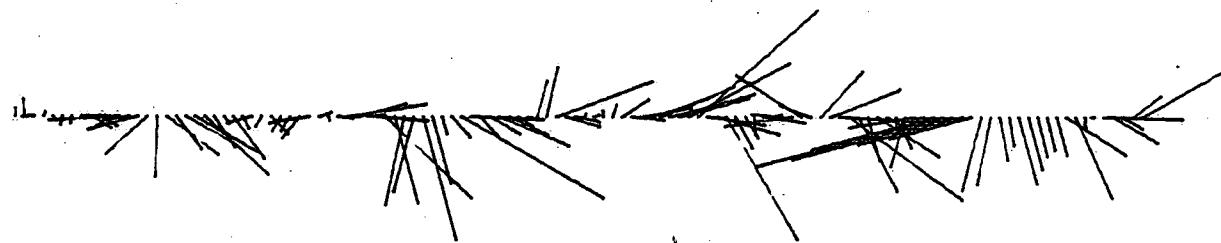
*DIRECTION TOWARDS

MOORING: 75-5C-08 DATE: APR 1976



WINDSPEED²

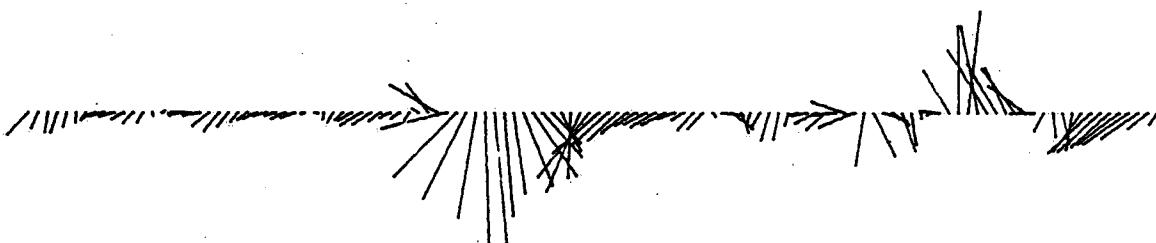
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: M

DEPTH: 25 M



○ - M
△ - 25 M

TEMPERATURE °C

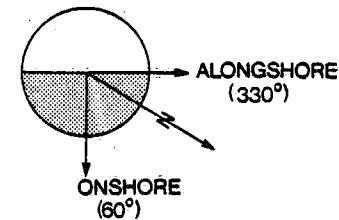
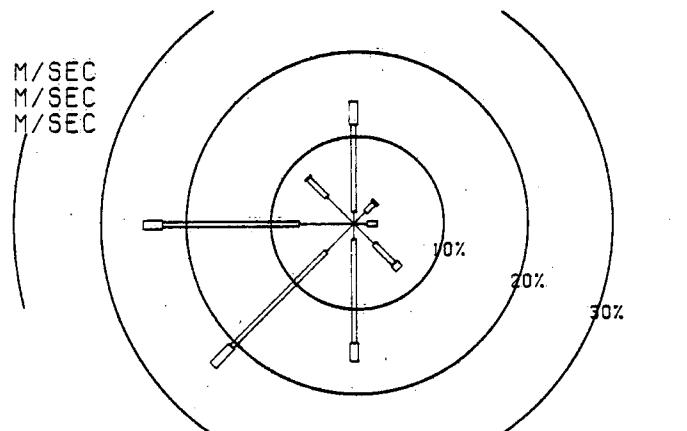
25
20
15
10
5
0

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

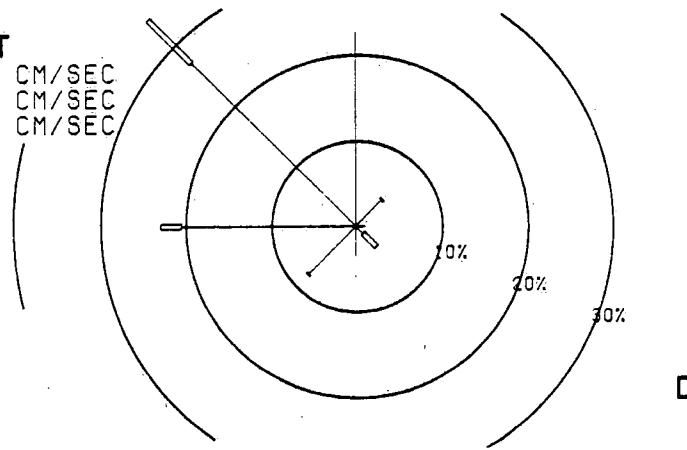
MOORING: 8 DATE: APR 1976

MONTHLY SUMMARY: WIND AND CURRENT*

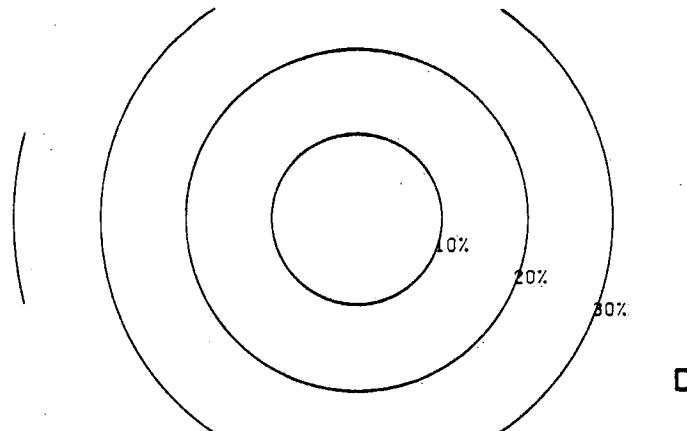
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



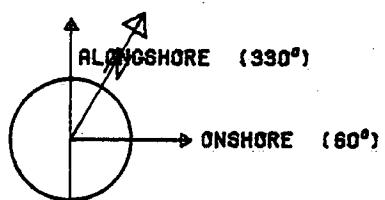
DEPTH: 59 m



DEPTH: m

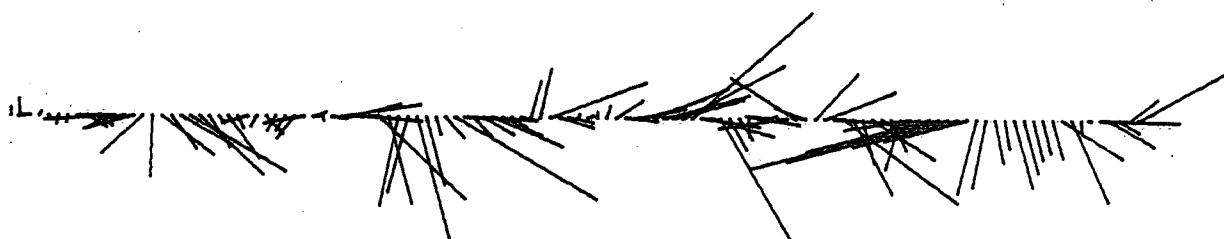
*DIRECTION TOWARDS

MOORING: 75-5C-08 DATE: APR 1976



WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC

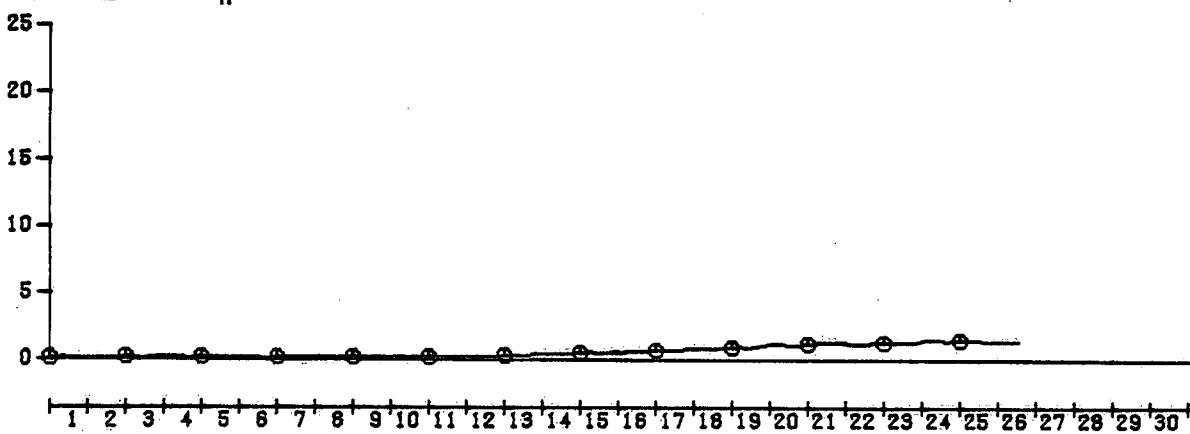
DEPTH: 59 M



DEPTH: M

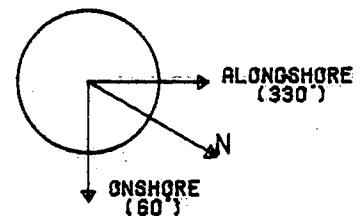
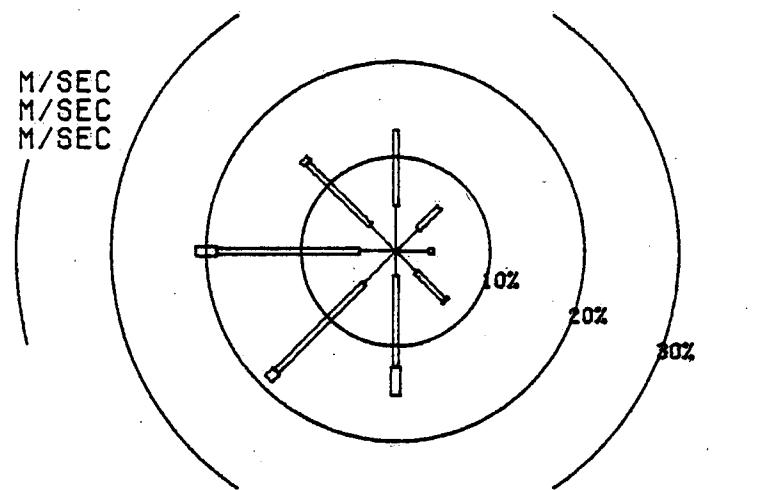
○ - 59 M
△ - M

TEMPERATURE °C

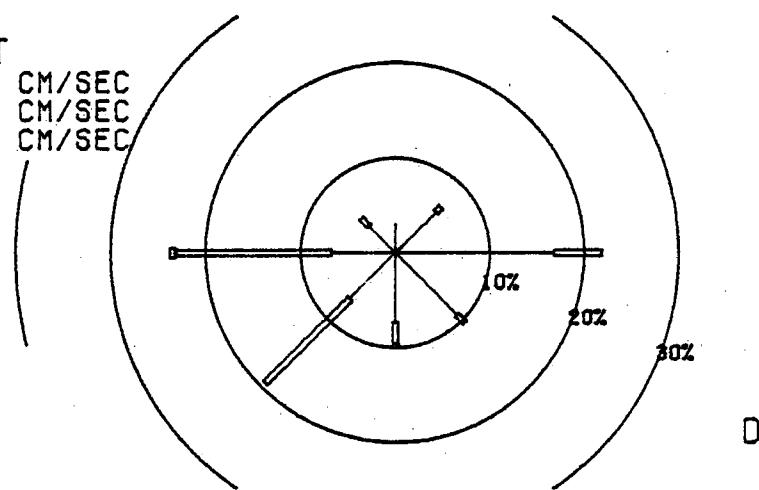


MOORING: 2 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

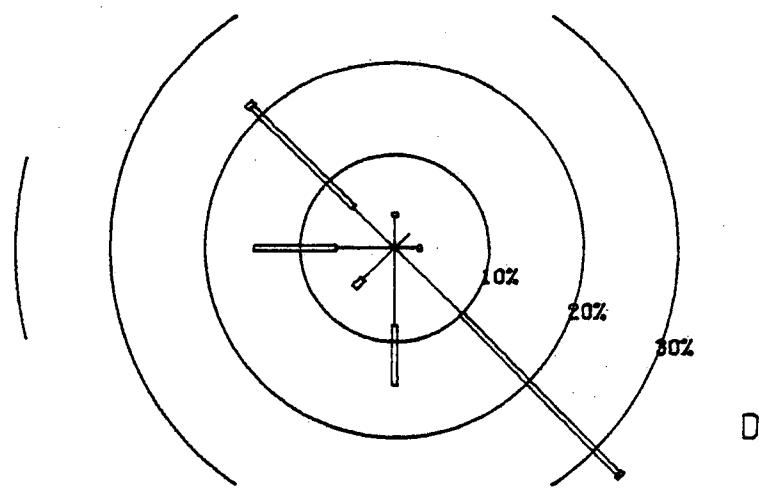
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



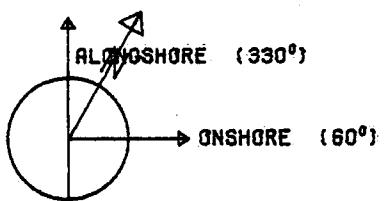
DEPTH: 10 M



DEPTH: 17 M

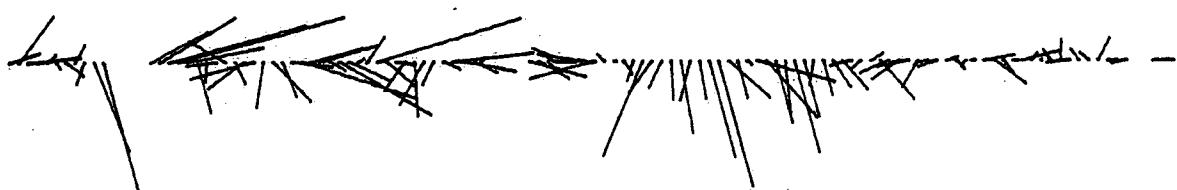
* DIRECTION TOWARDS

MOORING: 76-5C-02 DATE: MAY 1976



WINDSPEED²

0 — 40 M²/SEC²

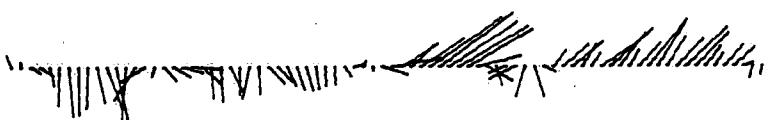


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 — 10 CM/SEC

DEPTH: 10 M

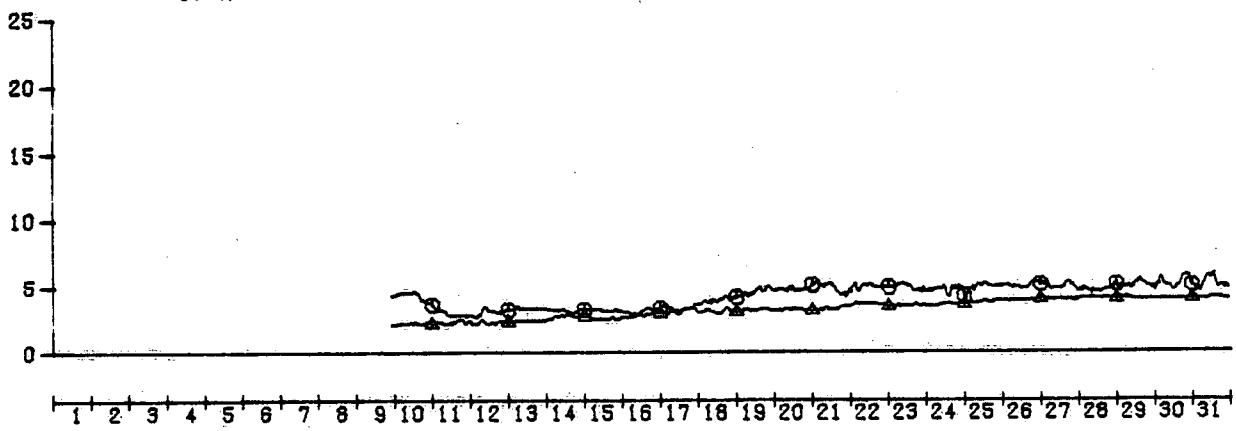


DEPTH: 17 M



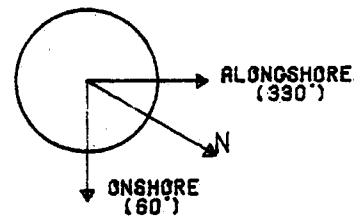
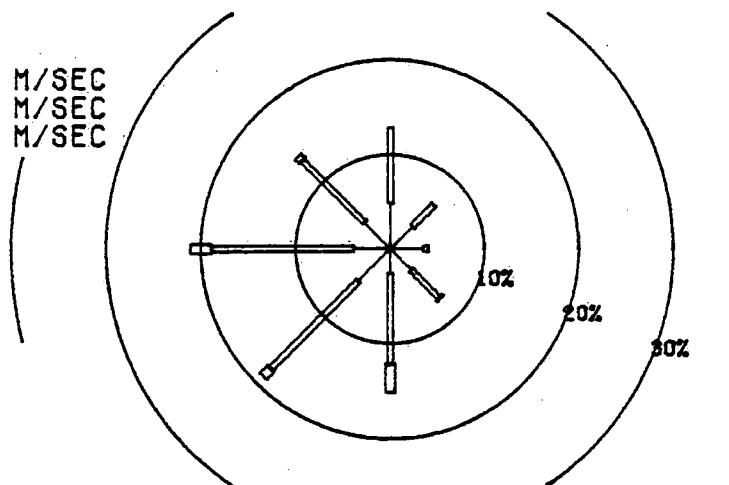
○ - 10 M
△ - 17 M

TEMPERATURE °C

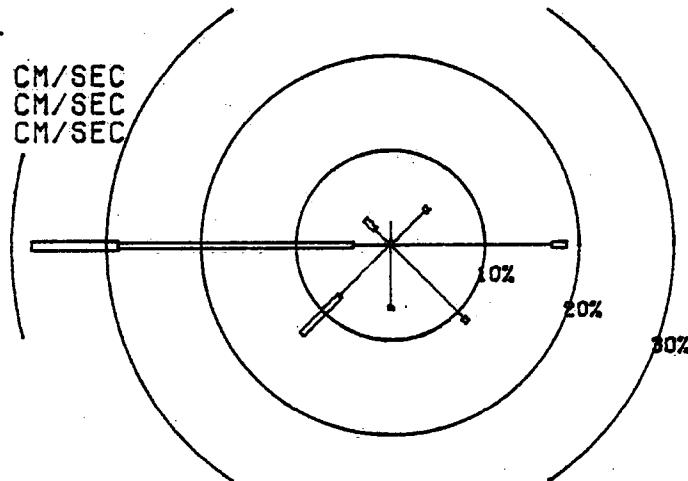


MOORING: 3 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

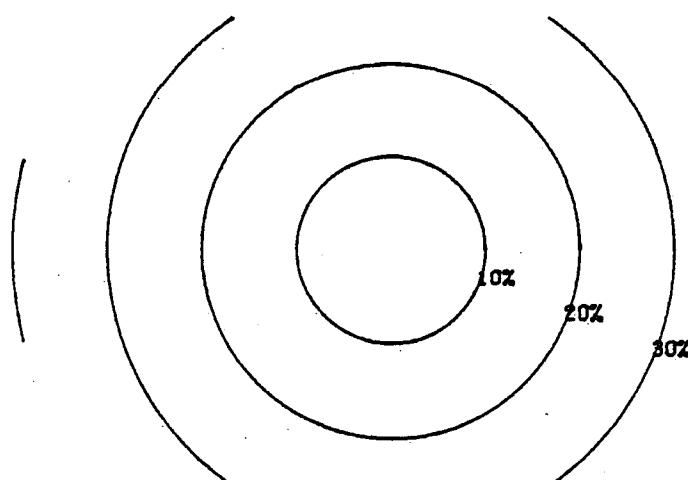
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



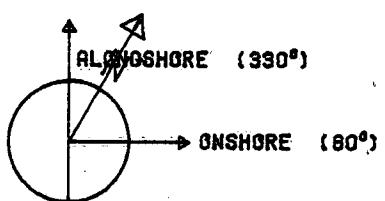
DEPTH: 10 M



DEPTH: M

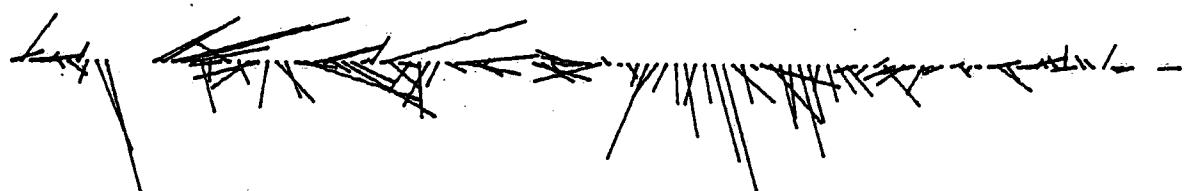
* DIRECTION TOWARDS

MOORING: 76-5C-03 DATE: MAY 1976



WINDSPEED²

0 M^2/SEC^2



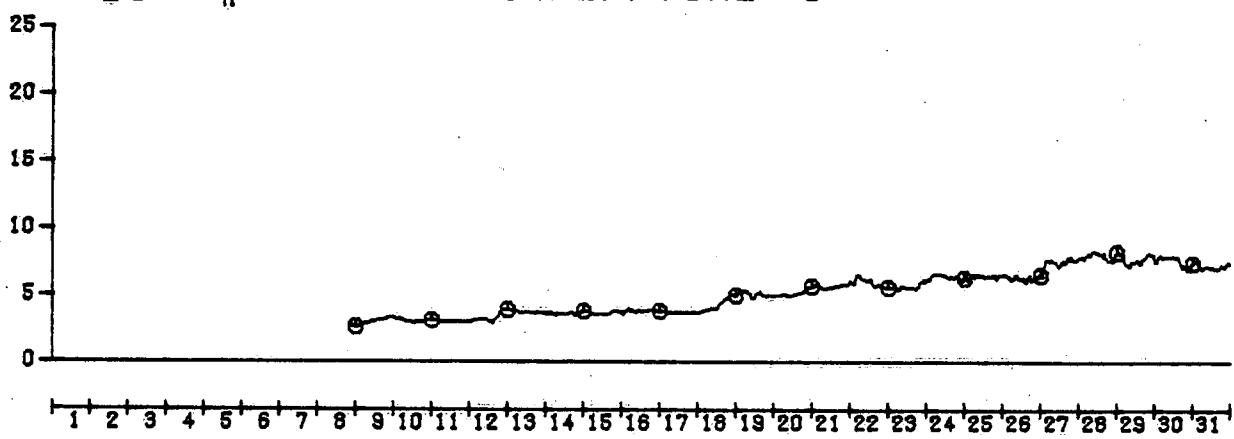
FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

DEPTH: 10 M

DEPTH: M

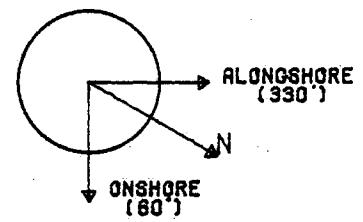
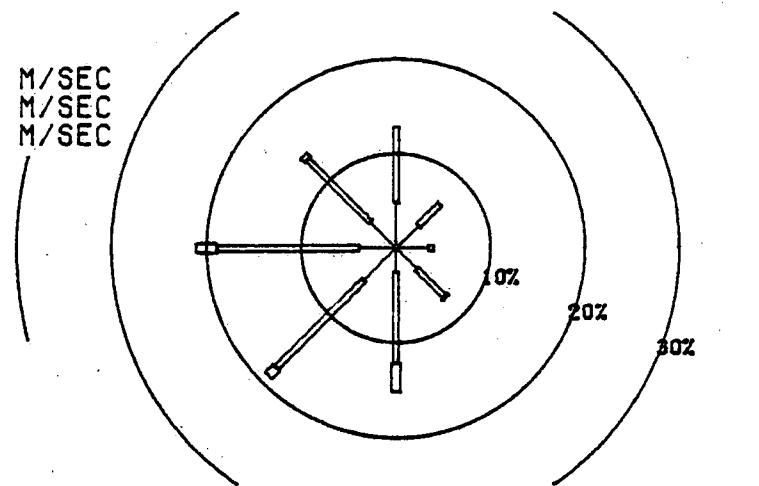
○ - 10 M
△ - M

TEMPERATURE °C

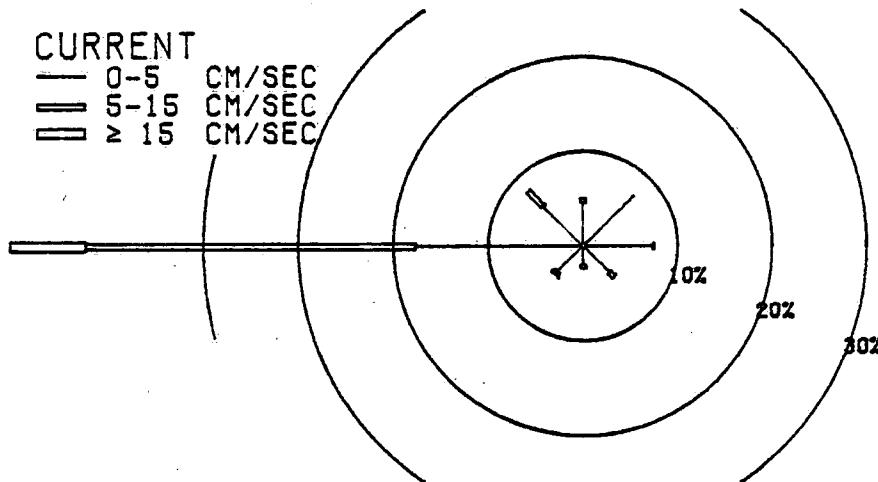


MOORING: 4 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

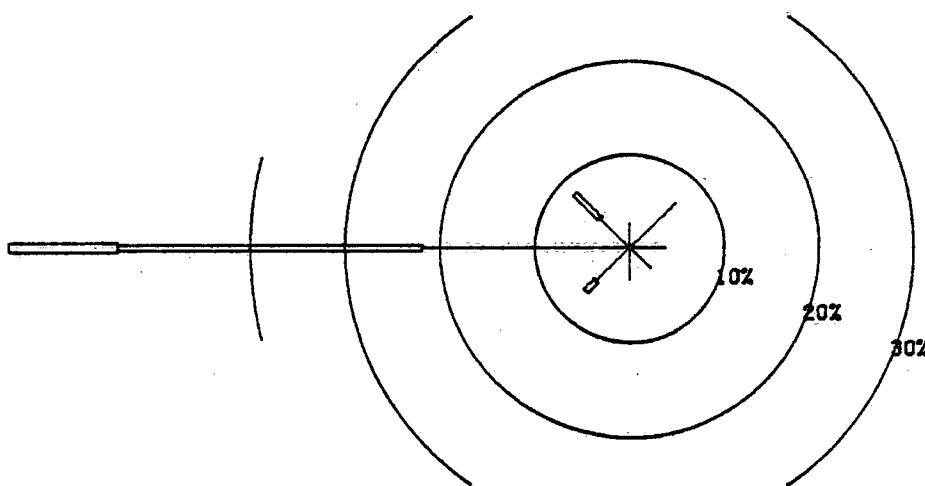
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



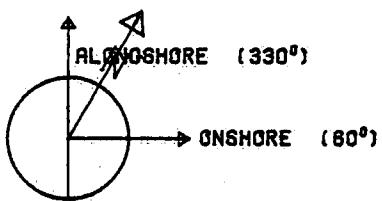
DEPTH: 15 M



DEPTH: 25 M

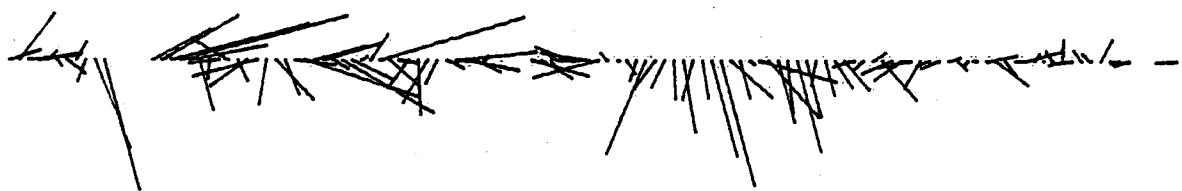
* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: MAY 1976



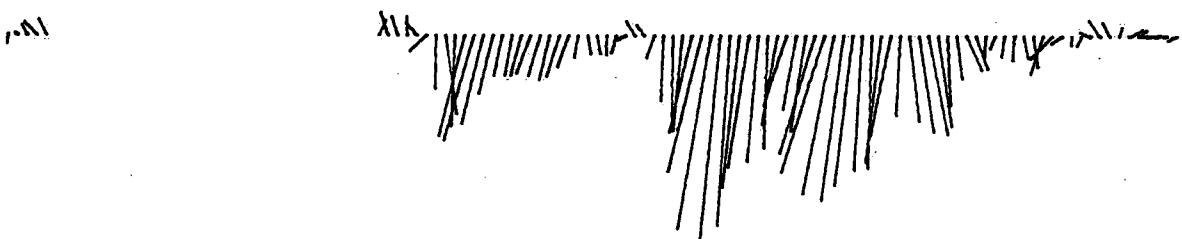
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

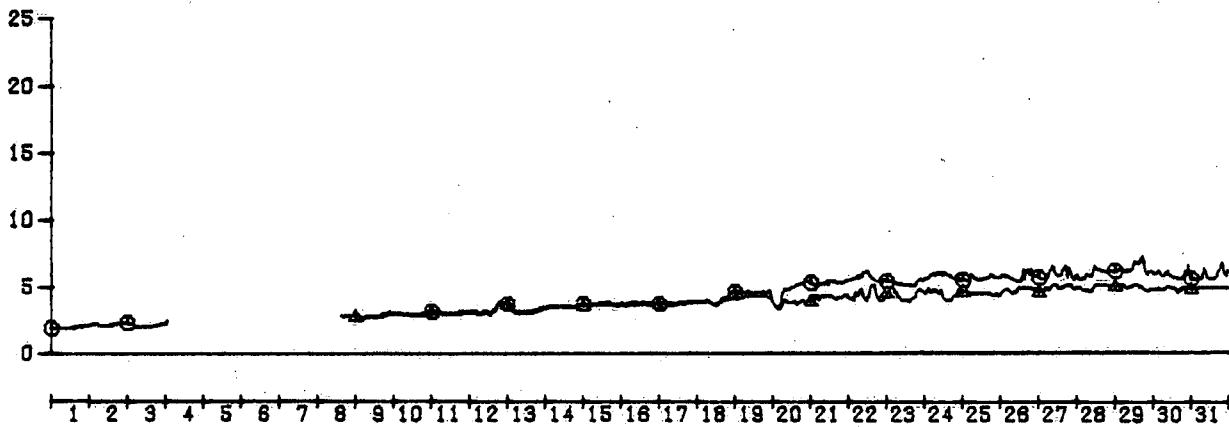


DEPTH: 25 M



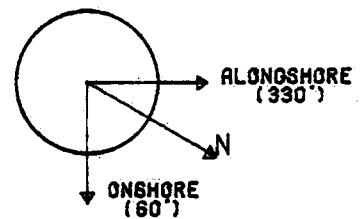
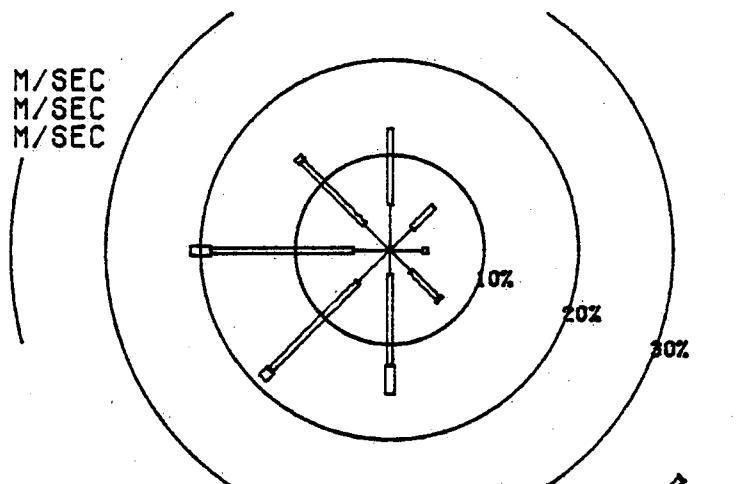
○ - 10 M
△ - 25 M

TEMPERATURE °C

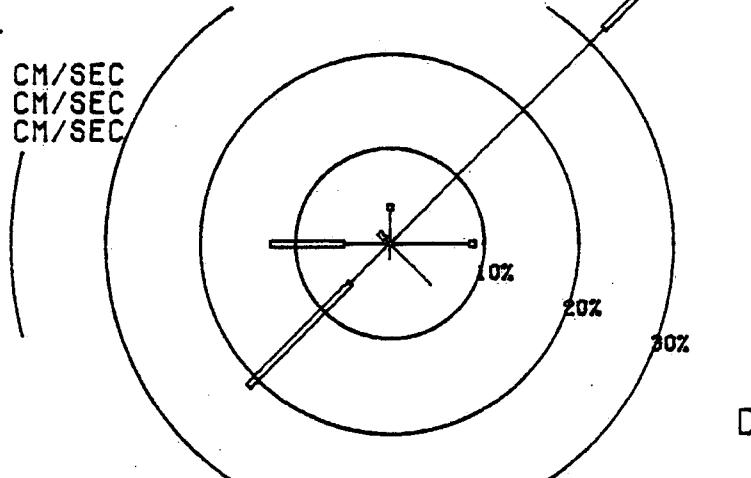


MOORING: 4 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



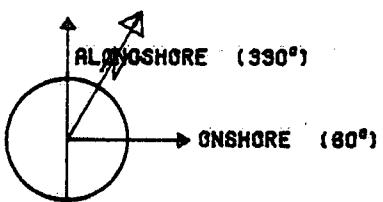
CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



DEPTH: 31 M

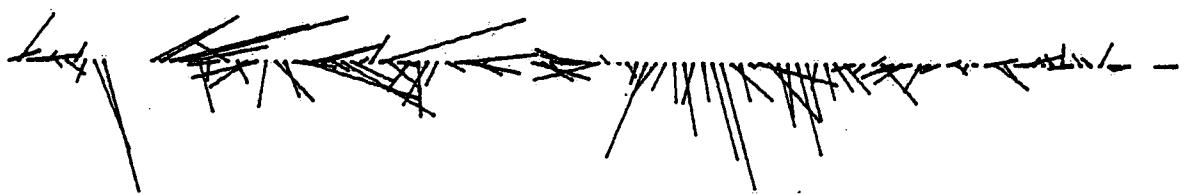
* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: MAY 1976



WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

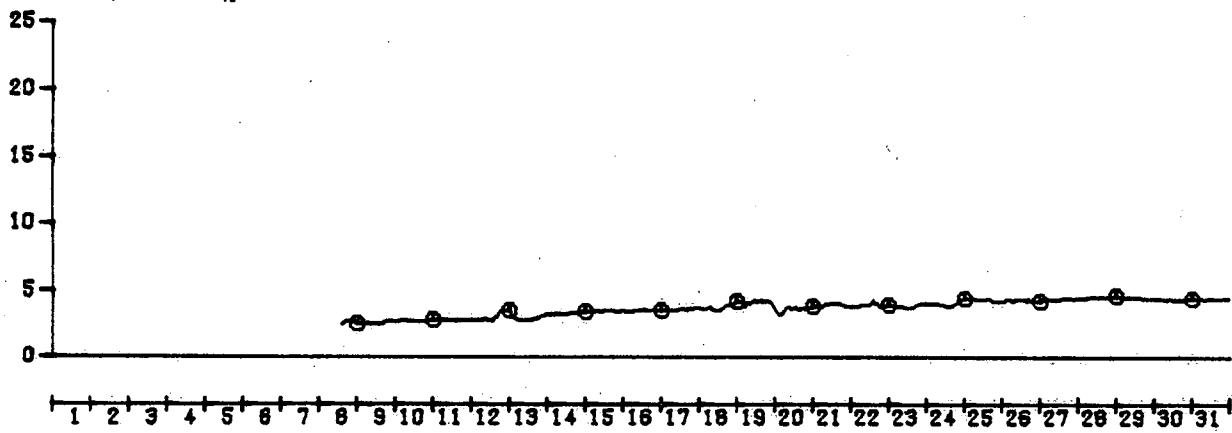
DEPTH: 31 M



DEPTH: M

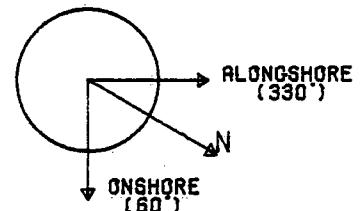
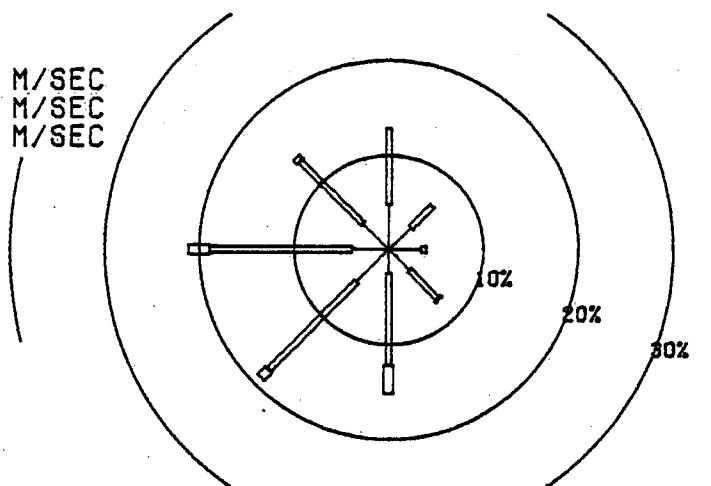
○ - 31 M
△ - M

TEMPERATURE °C

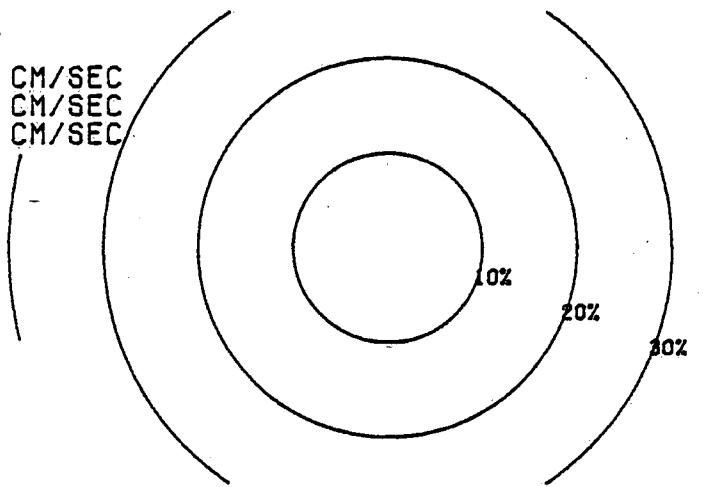


MOORING: 5 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

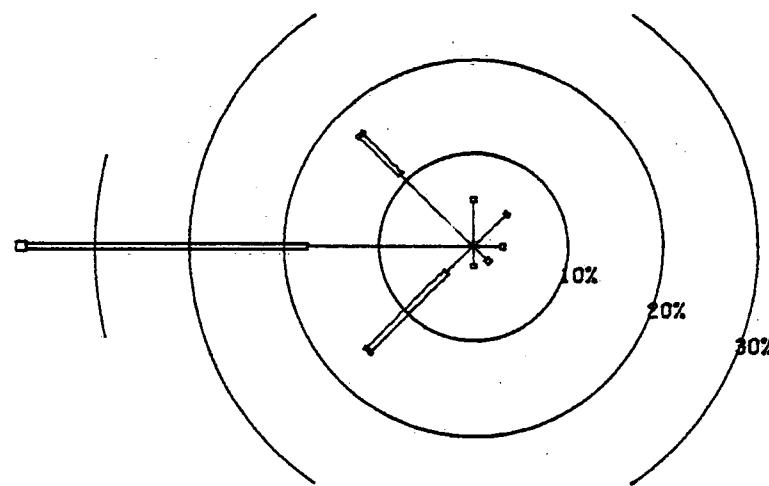
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



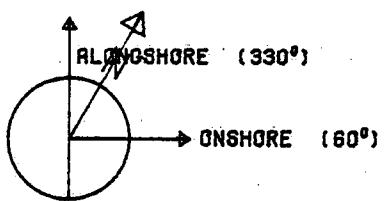
DEPTH: M



DEPTH: 25 M

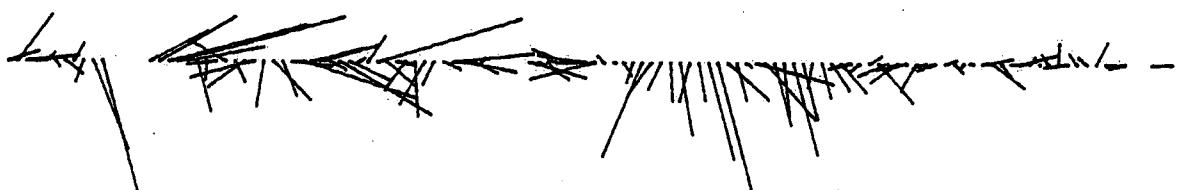
* DIRECTION TOWARDS

MOORING: 76-5C-05 DATE: MAY 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 15 M

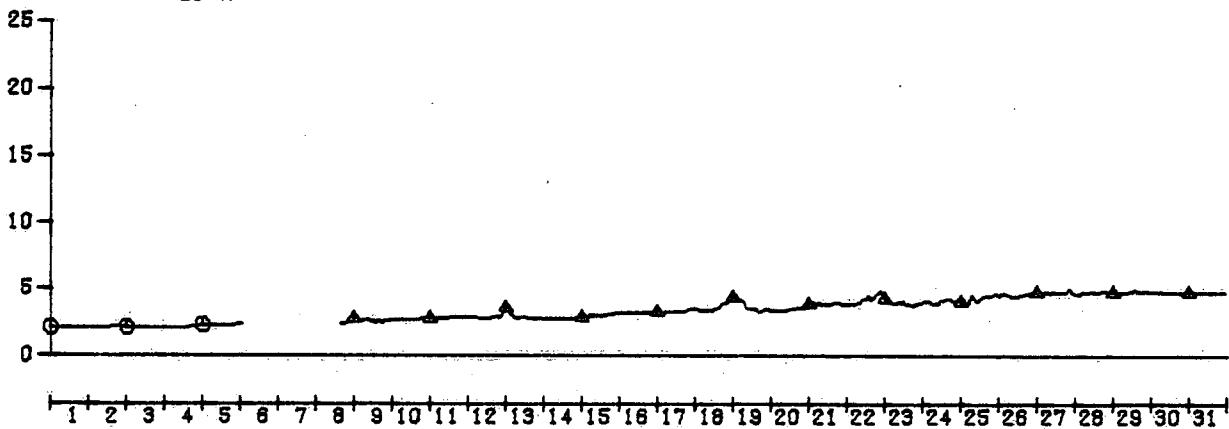


DEPTH: 25 M



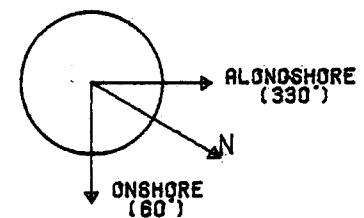
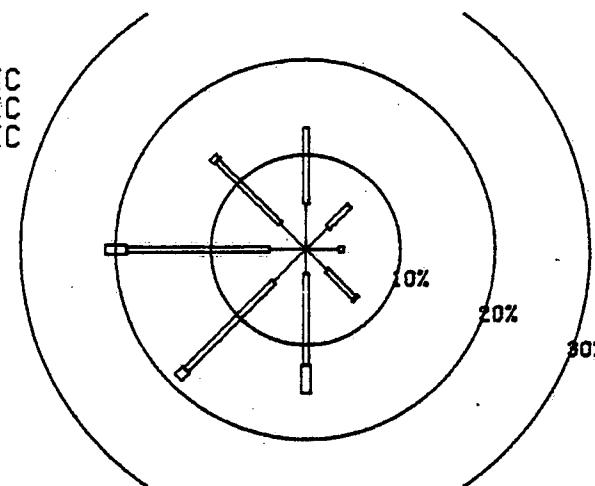
○ - 15 M
△ - 25 M

TEMPERATURE °C

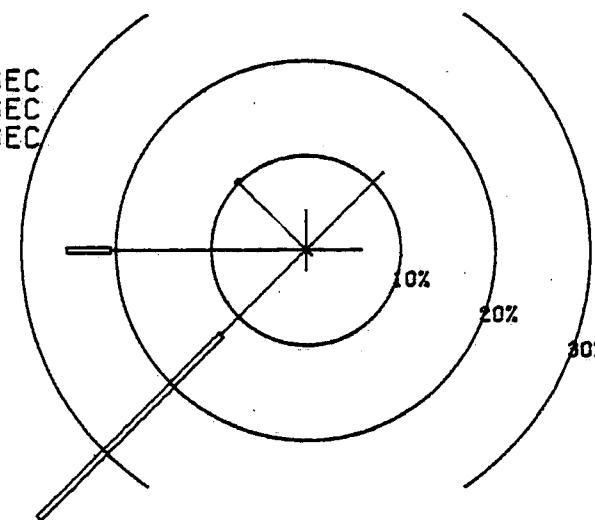


MOORING: 5 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

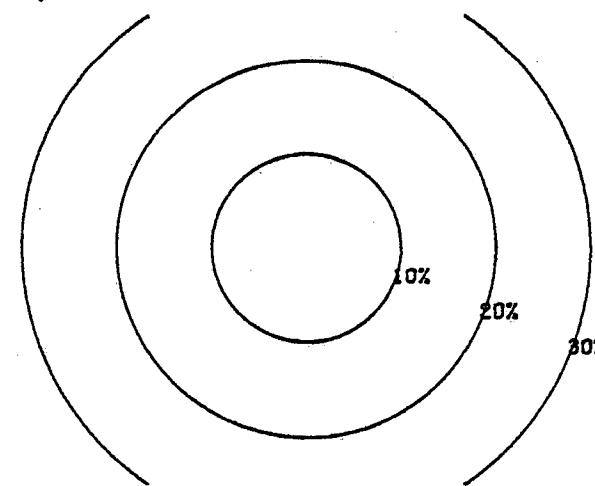
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



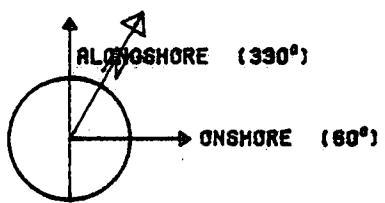
DEPTH: 35 M



DEPTH: M

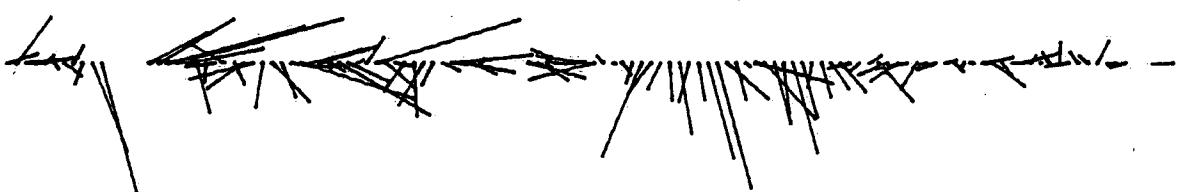
* DIRECTION TOWARDS

MOORING: 76-5C-05 DATE: MAY 1976



WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

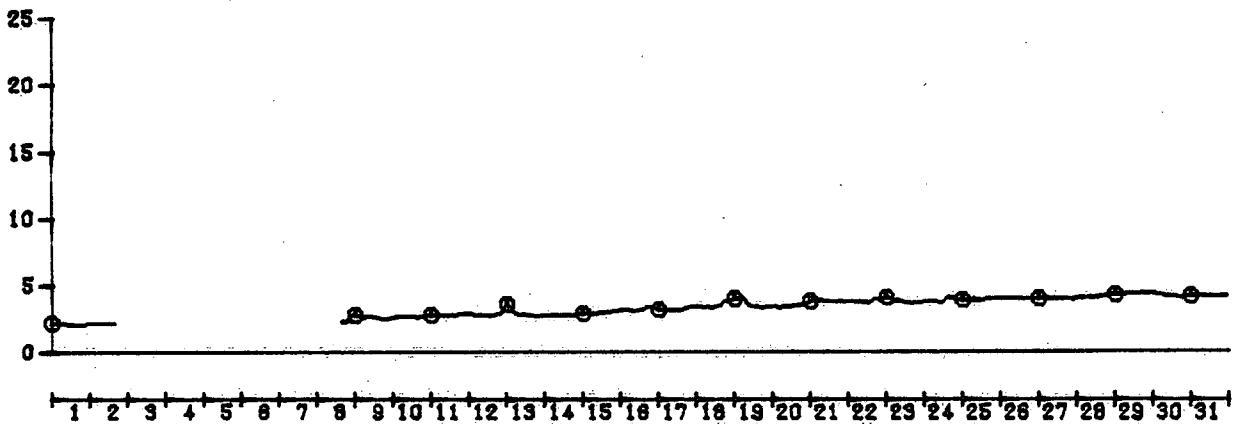
DEPTH: 36 M



DEPTH: M

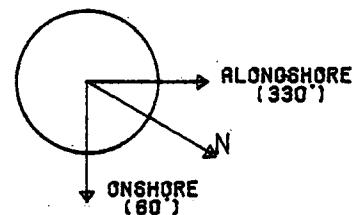
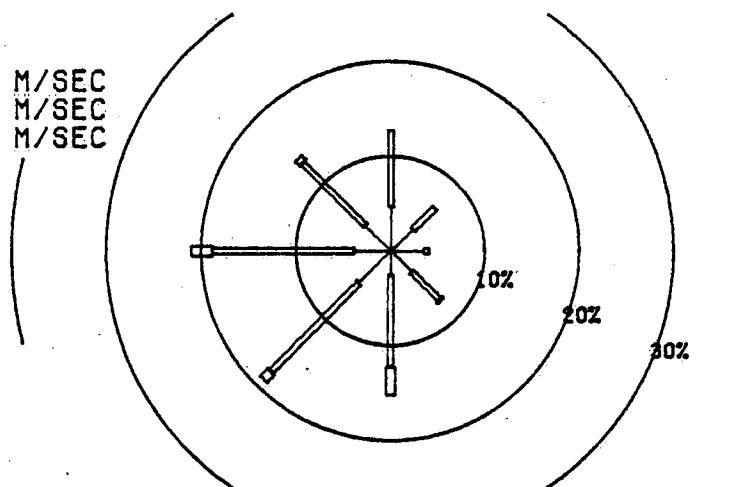
○ - 36 M
△ - M

TEMPERATURE °C

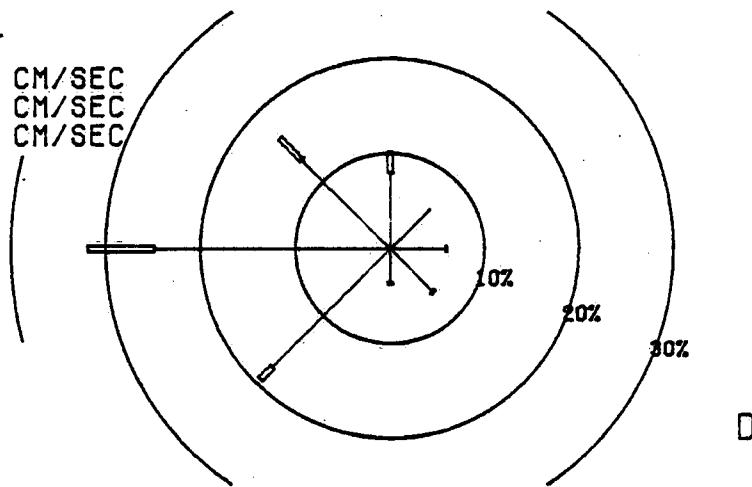


MOORING: 6 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

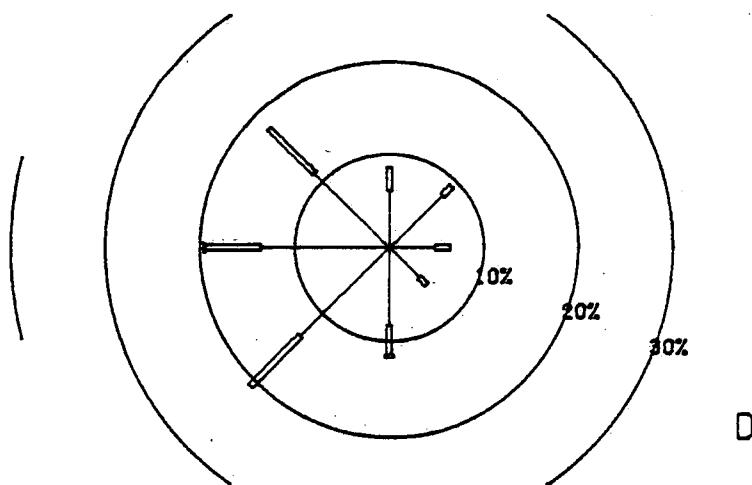


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



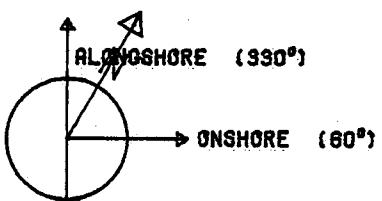
DEPTH: 15 M

* DIRECTION TOWARDS



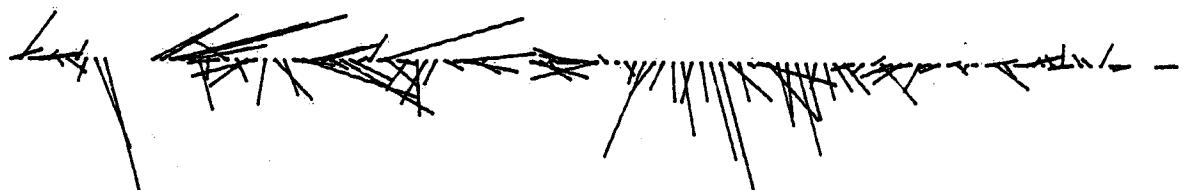
DEPTH: 25 M

MOORING: 76-5C-06 DATE: MAY 1976



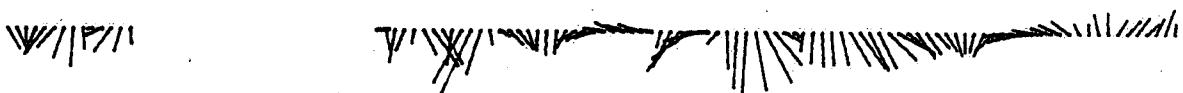
WINDSPEED²

0 40 M²/SEC²

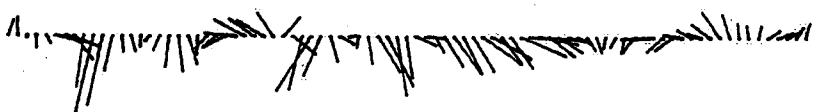


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

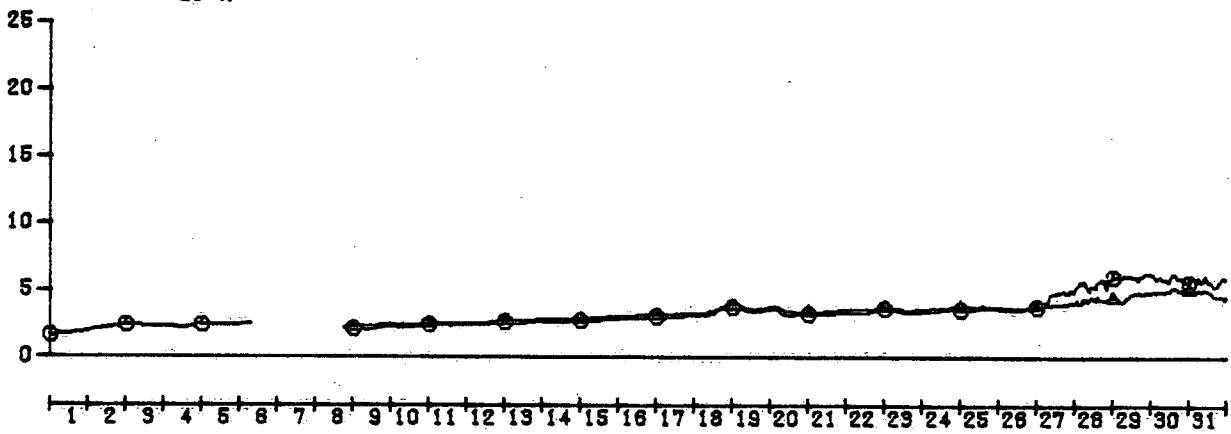


DEPTH: 25 M



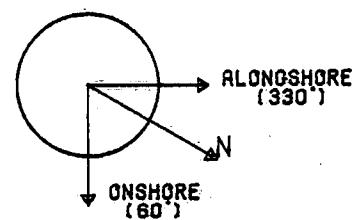
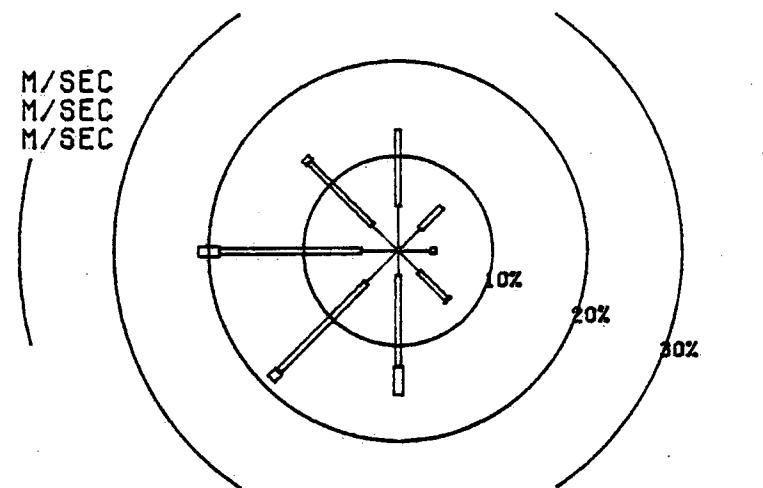
○ - 10 M
△ - 25 M

TEMPERATURE °C

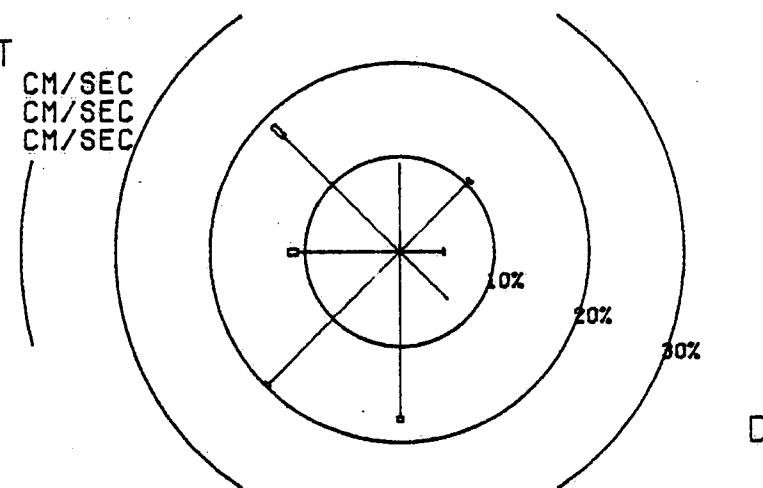


MOORING: 6 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

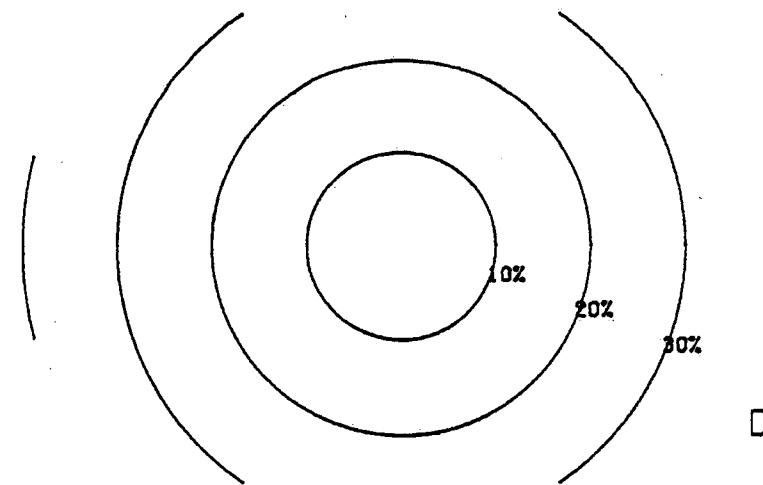


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



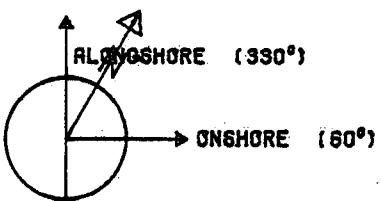
DEPTH: 43 M

* DIRECTION TOWARDS



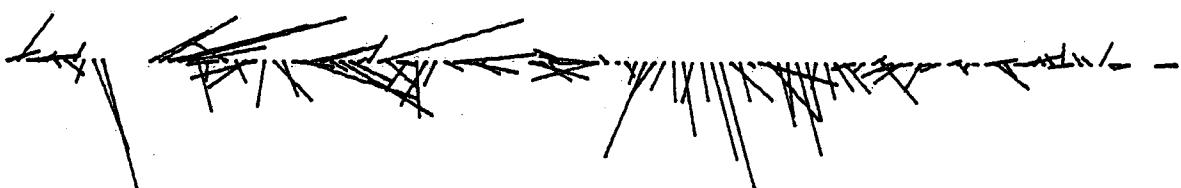
DEPTH: M

MOORING: 76-5C-06 DATE: MAY 1976



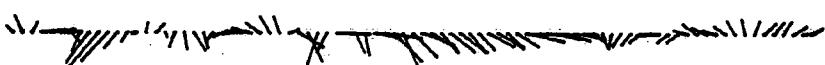
WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

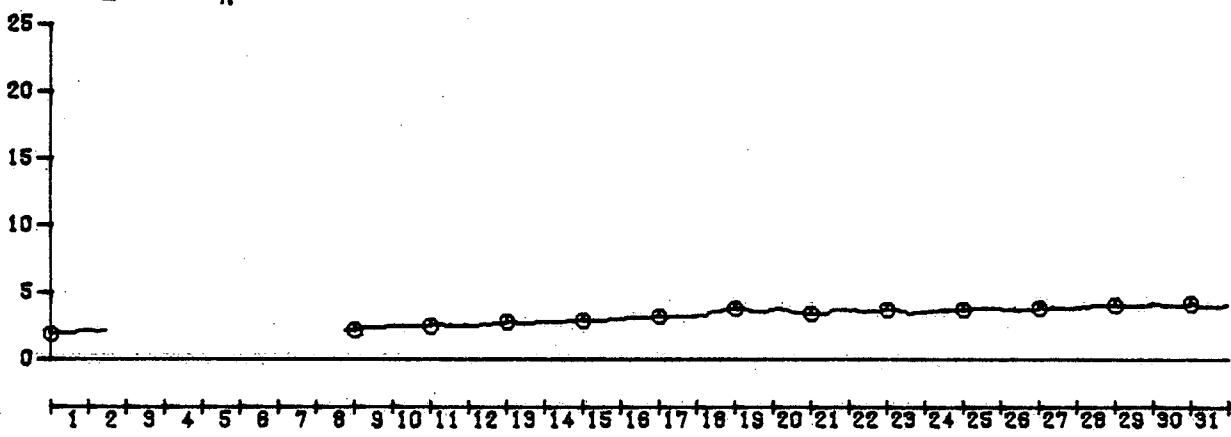
DEPTH: 43 M



DEPTH: M

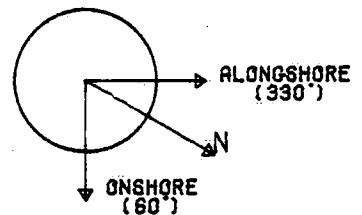
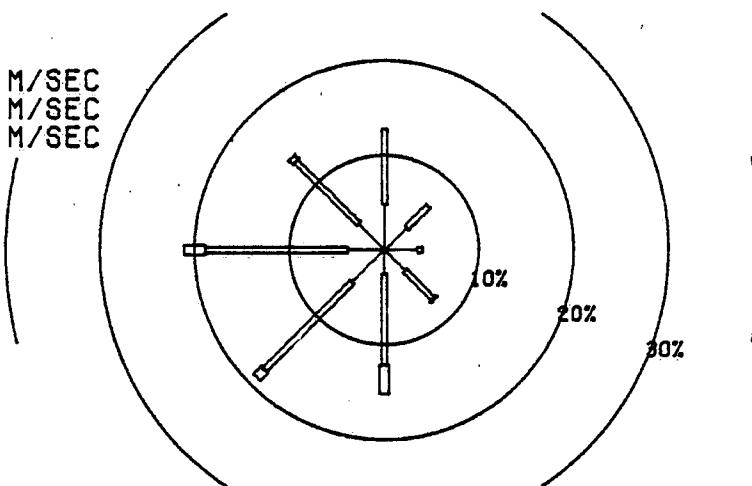
○ - 43 M
△ - M

TEMPERATURE °C

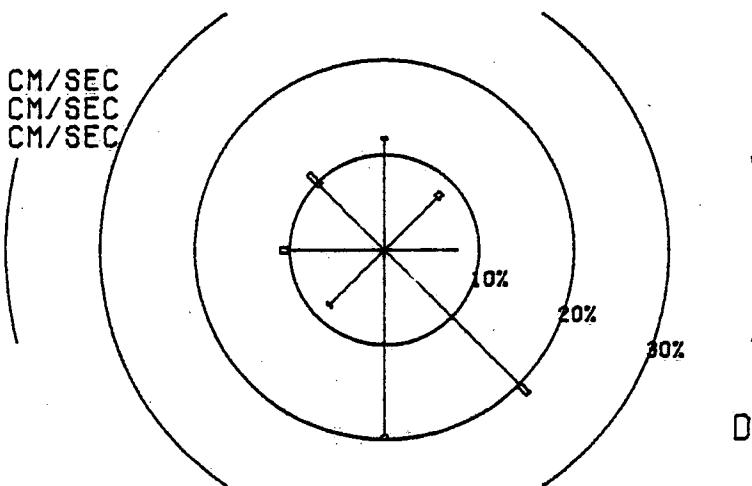


MOORING: 7 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

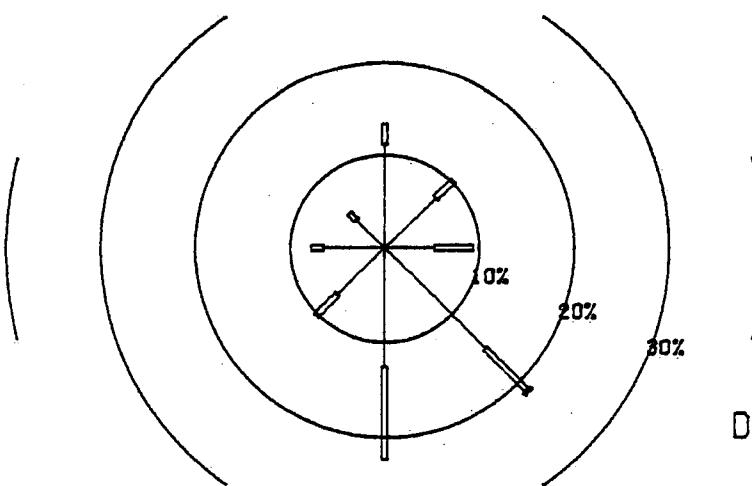
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



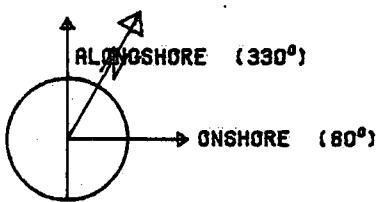
DEPTH: 15 M



DEPTH: 25 M

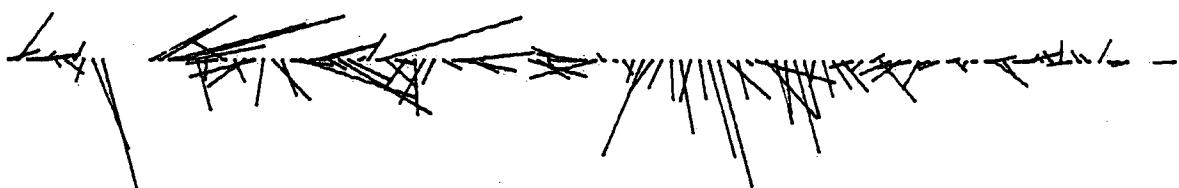
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: MAY 1976



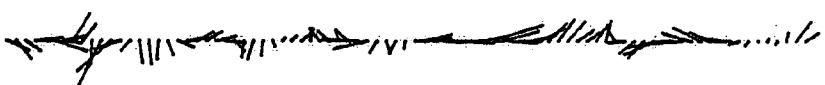
WINDSPEED²

0 40 M²/SEC²

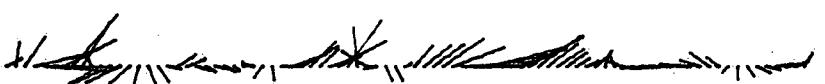


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

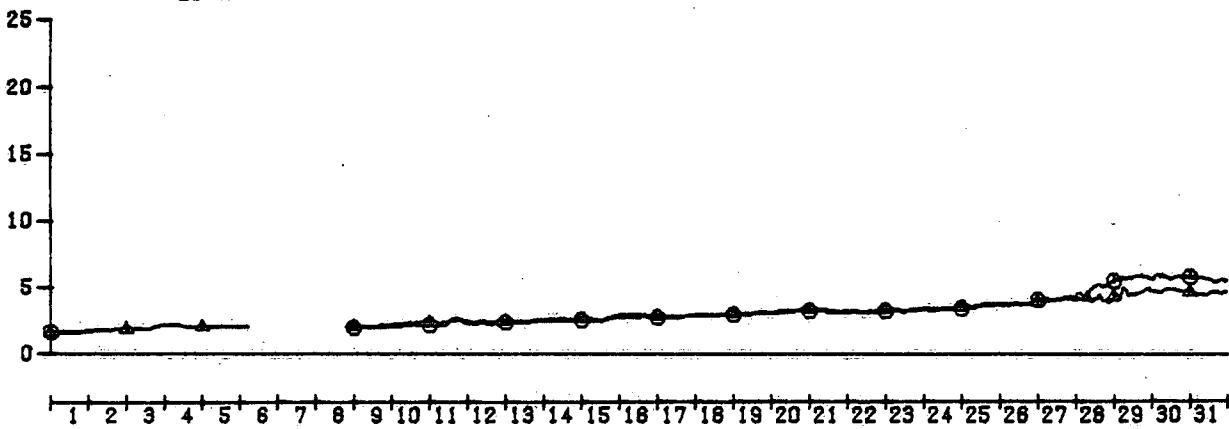


DEPTH: 25 M



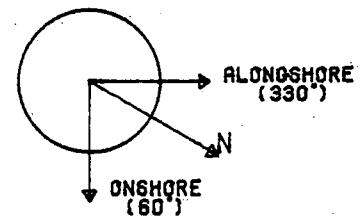
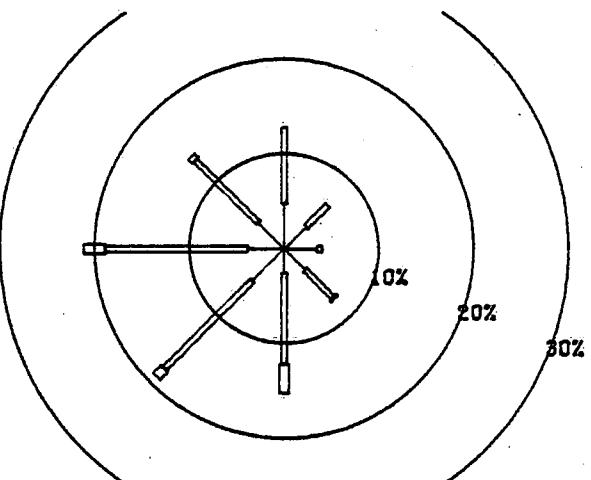
○ - 10 M
△ - 25 M

TEMPERATURE °C

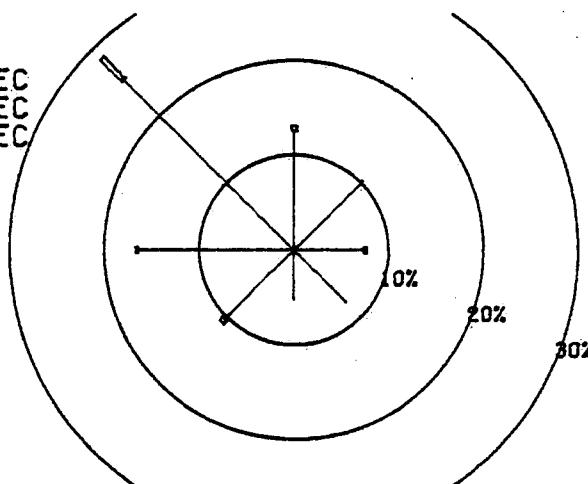


MOORING: 7 DATE: MAY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

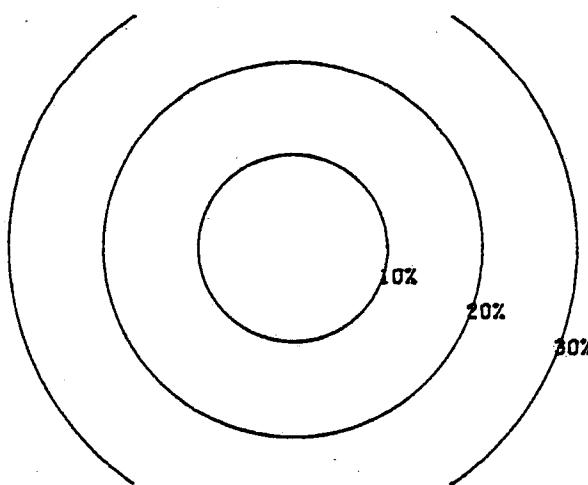
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



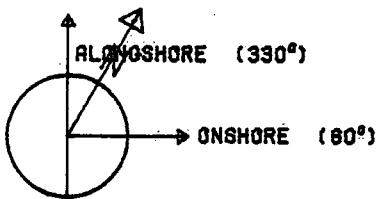
DEPTH: 55 M



DEPTH: M

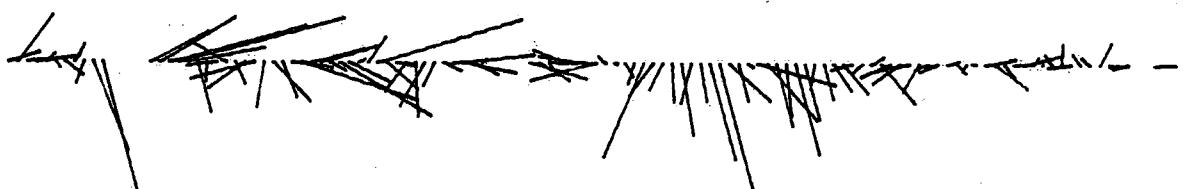
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: MAY 1976



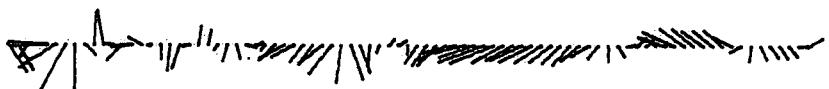
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

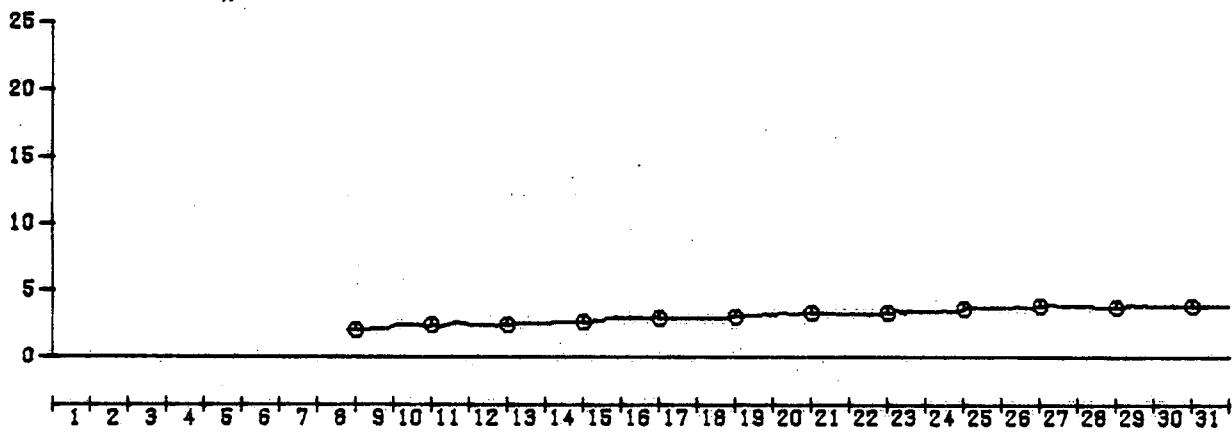
DEPTH: 55 M



DEPTH: M

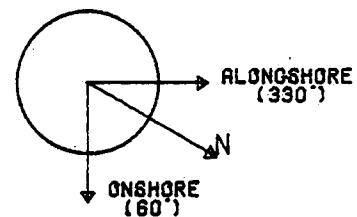
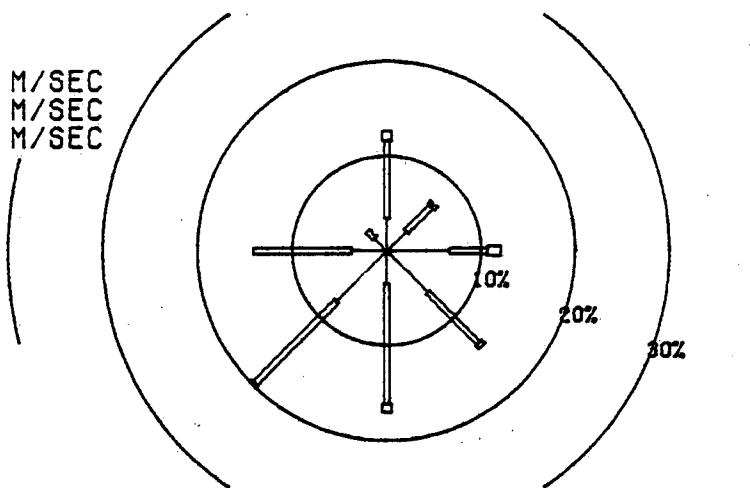
○ - 55 M.
△ - M

TEMPERATURE °C

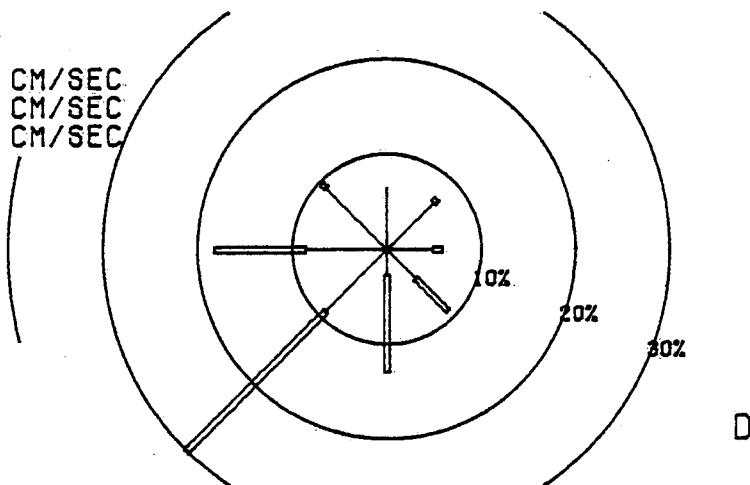


MOORING: 2 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

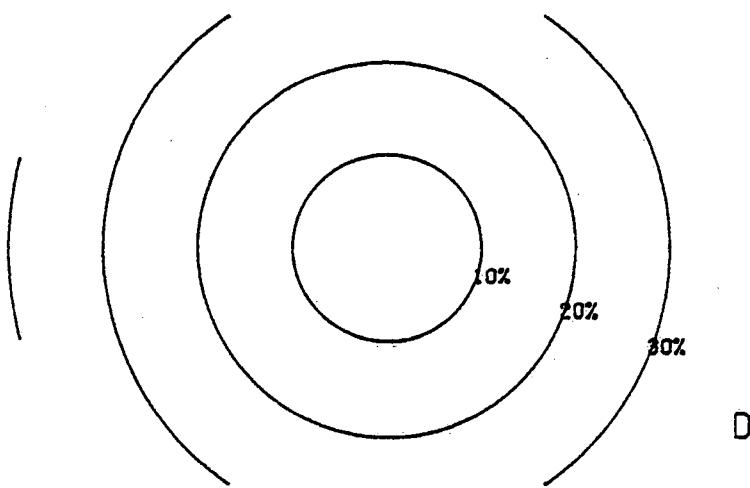
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



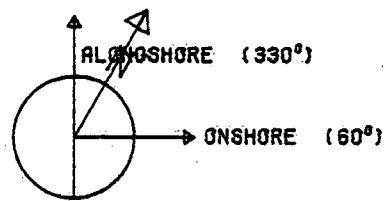
DEPTH: 10 M



DEPTH: M

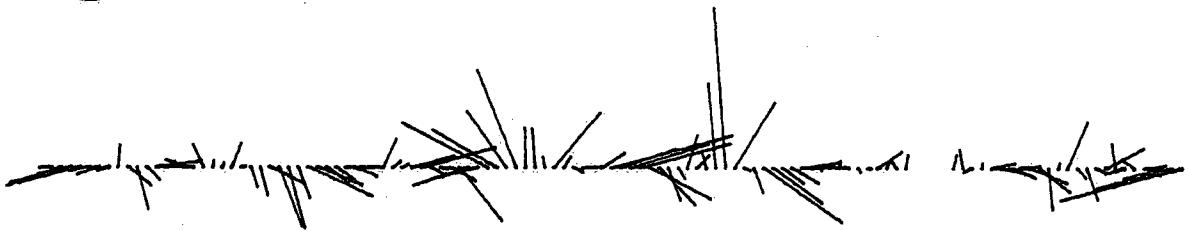
* DIRECTION TOWARDS

MOORING: 76-5C-02 DATE: JUNE 1976



WINDSPEED²

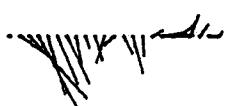
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

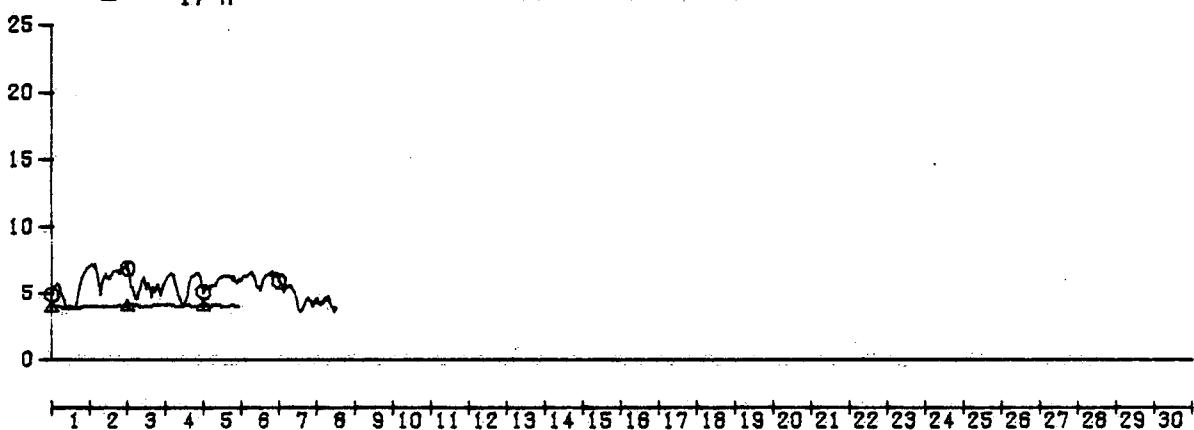


DEPTH: 17 M



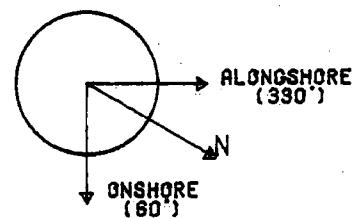
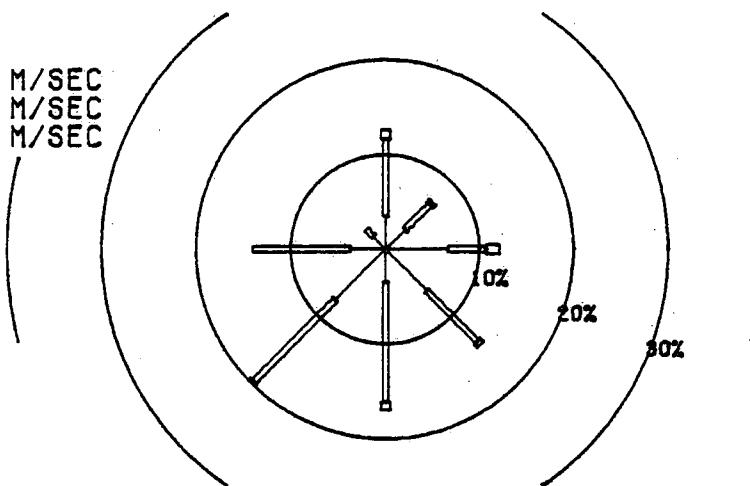
○ - 10 M
△ - 17 M

TEMPERATURE °C

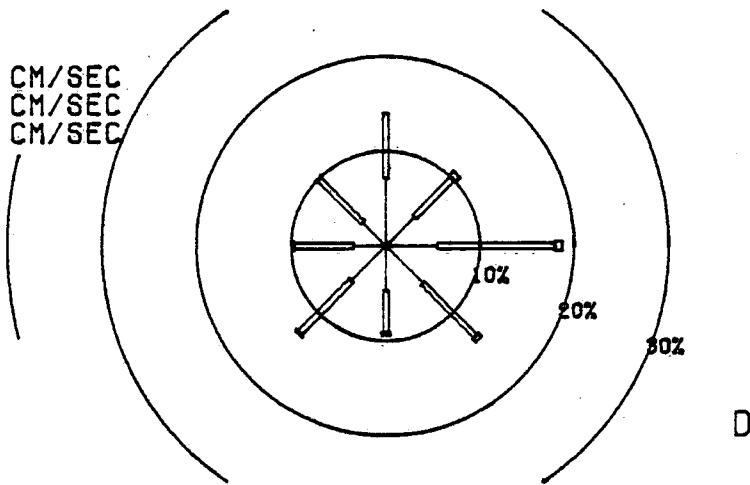


MOORING: 3 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

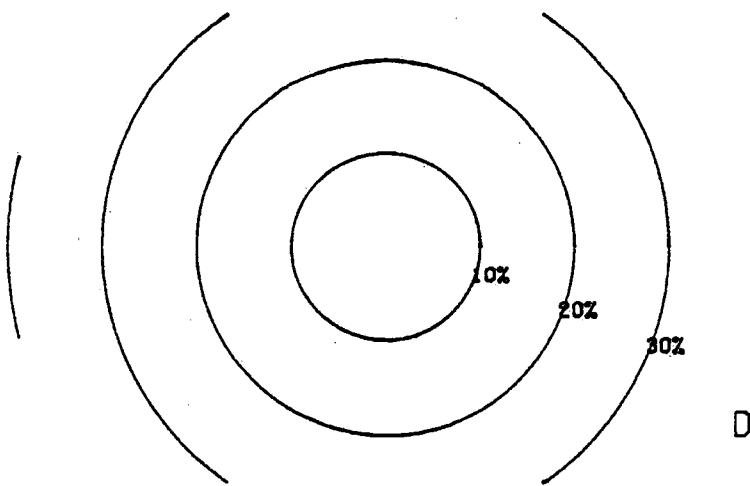
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



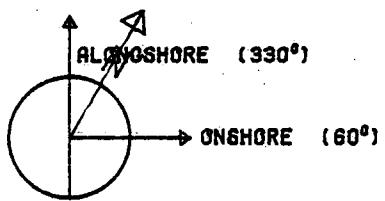
DEPTH: 10 M



DEPTH: M

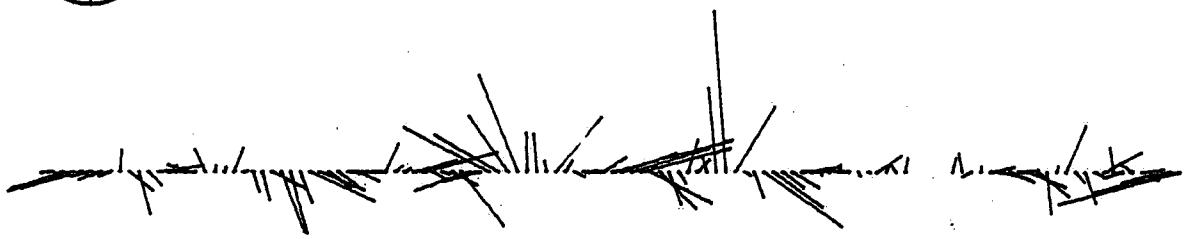
* DIRECTION TOWARDS

MOORING: 76-5C-03 DATE: JUNE 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

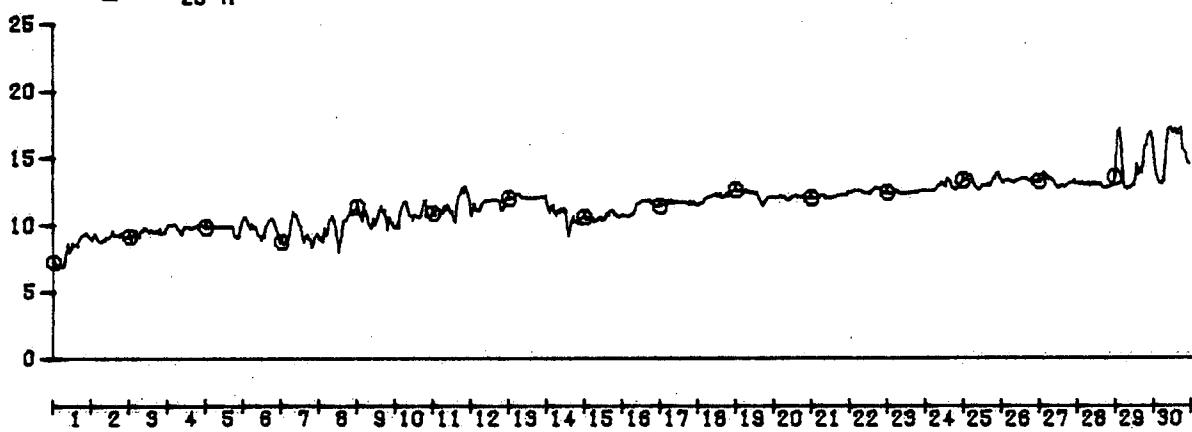
DEPTH: 10 M



DEPTH: 26 M

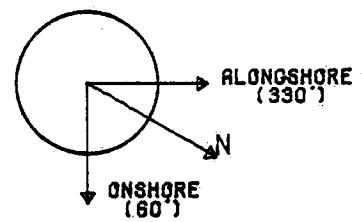
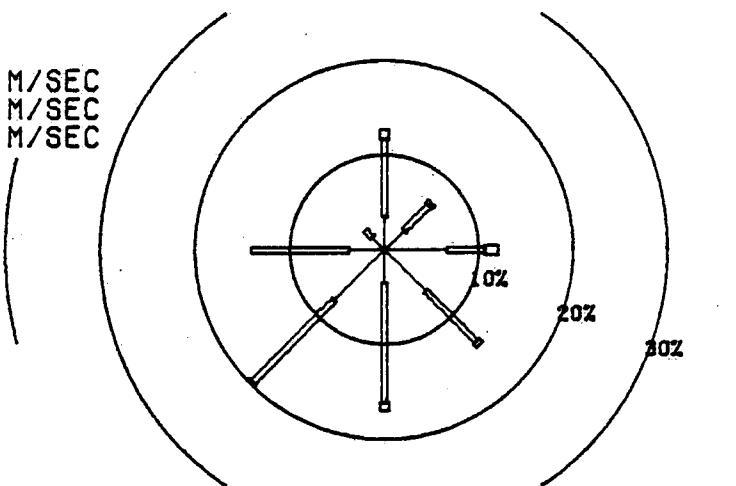
○ - 10 M
△ - 26 M

TEMPERATURE °C

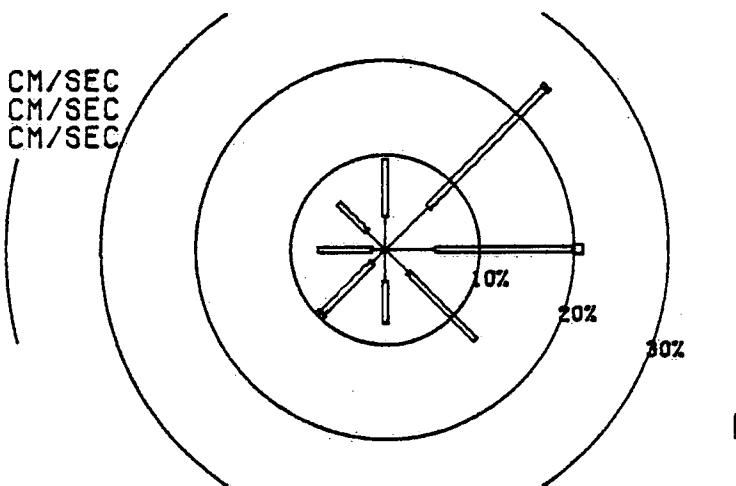


MOORING: 4 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

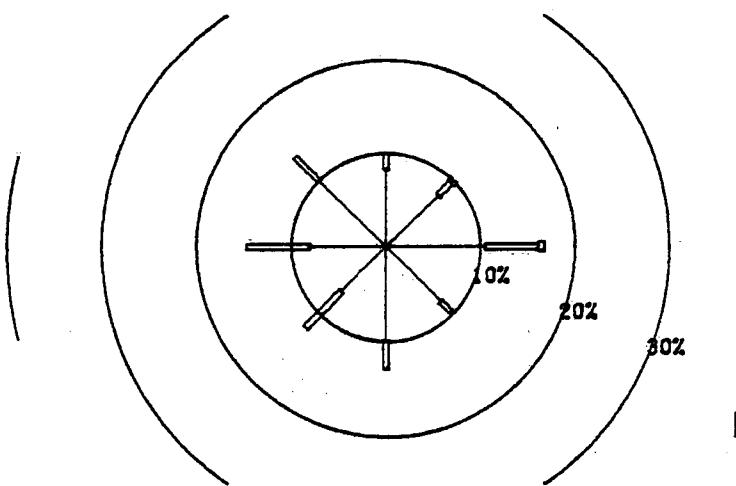
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



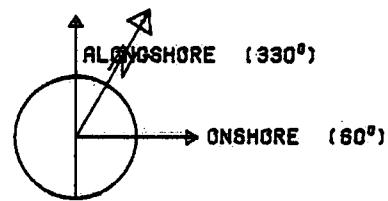
DEPTH: 10 M



DEPTH: 25 M

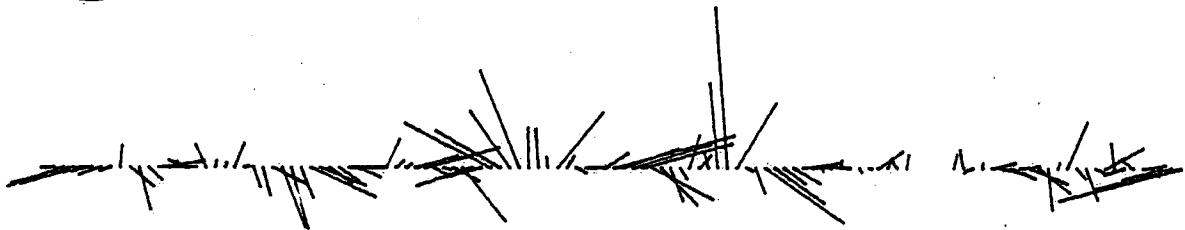
* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: JUNE 1976



WINDSPEED²

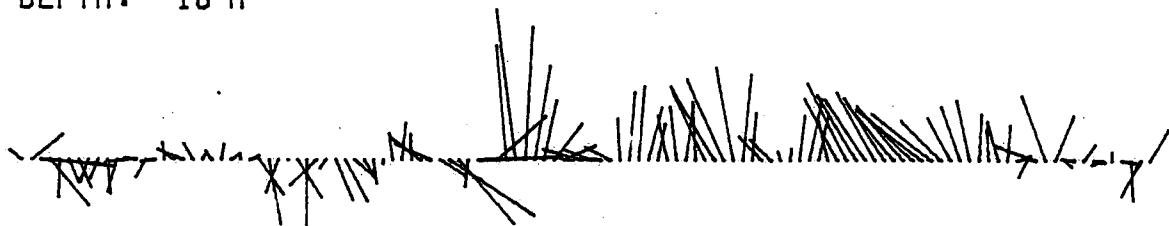
0 40 M²/SEC²



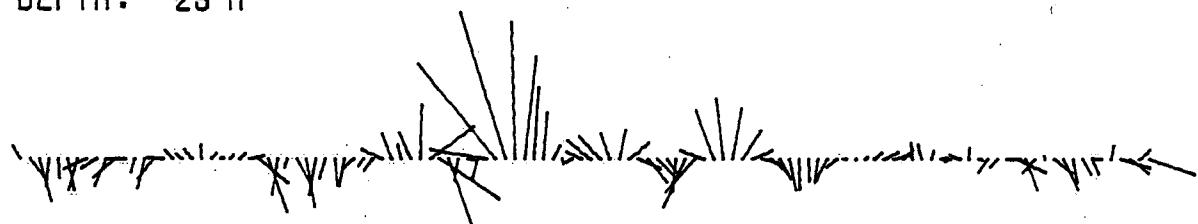
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

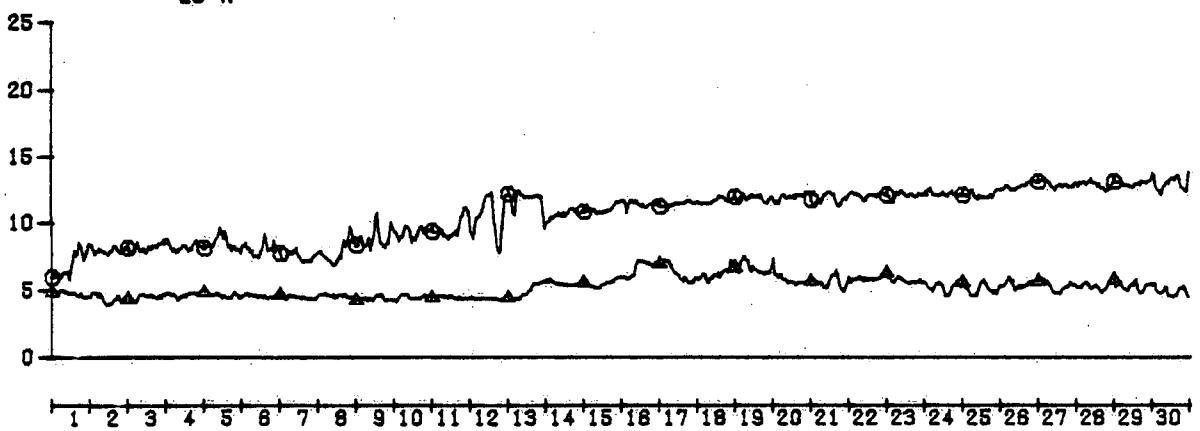


DEPTH: 25 M



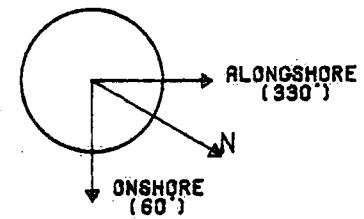
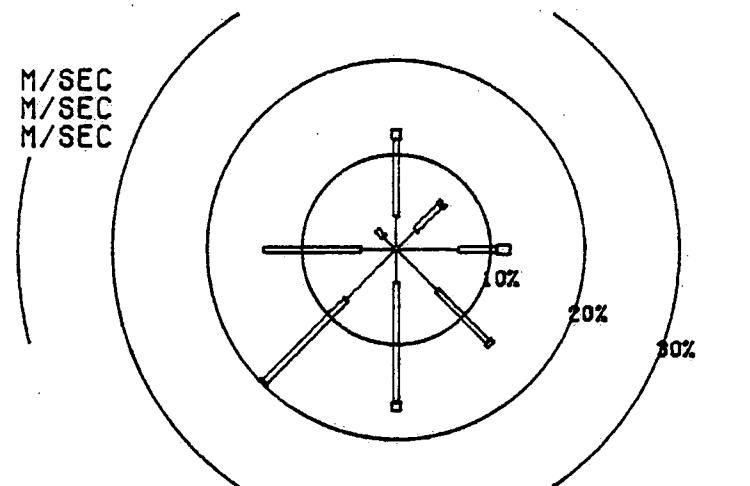
○ - 10 M
△ - 25 M

TEMPERATURE °C

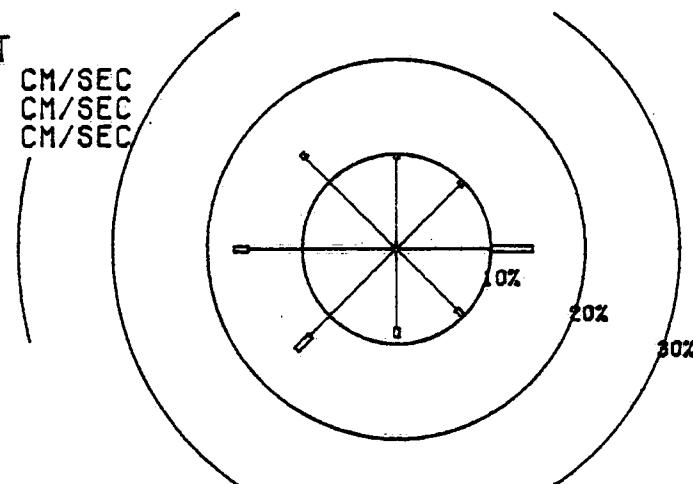


MOORING: 4 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

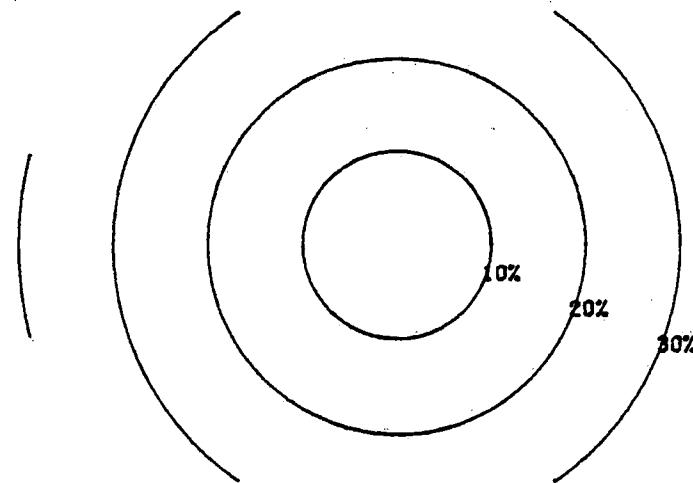


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



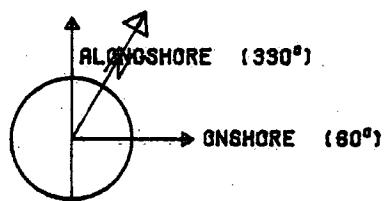
DEPTH: 31 M

* DIRECTION TOWARDS



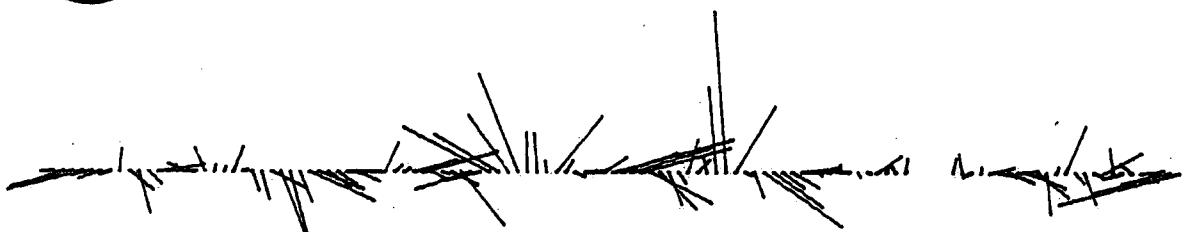
DEPTH: M

MOORING: 76-5C-04 DATE: JUNE 1976



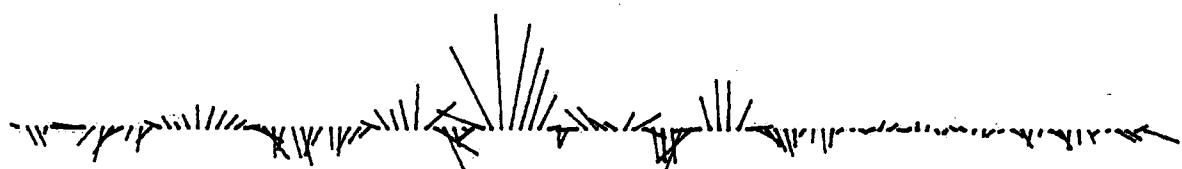
WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

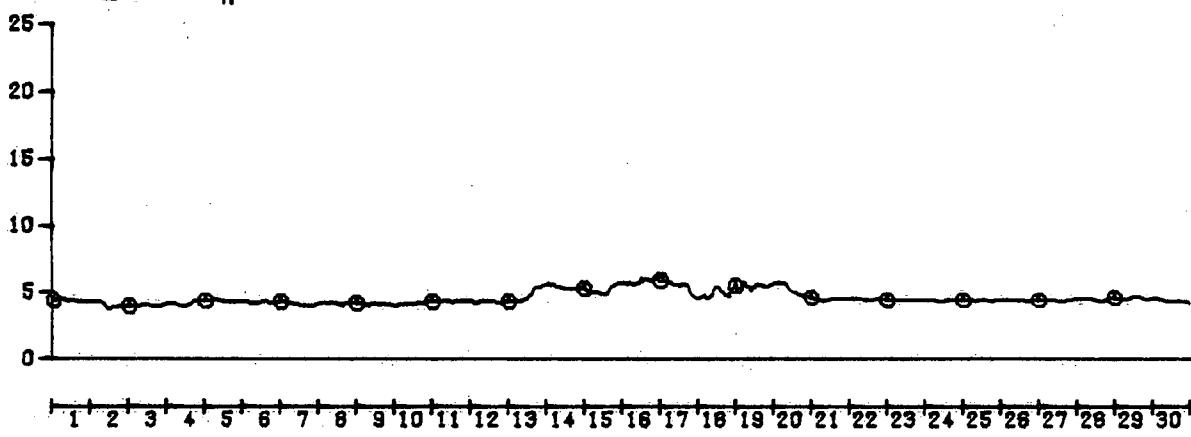
DEPTH: 31 M



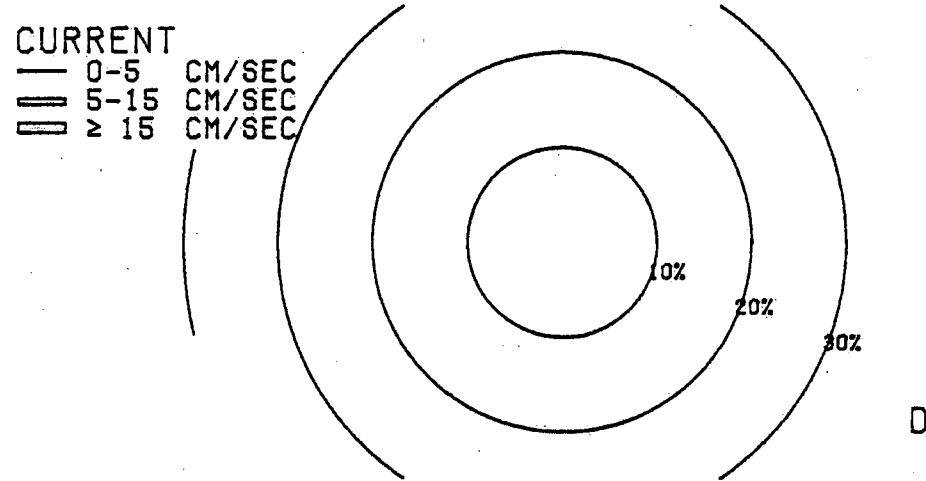
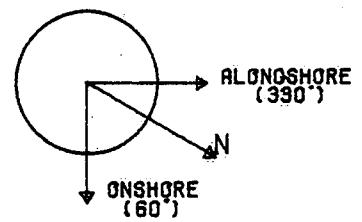
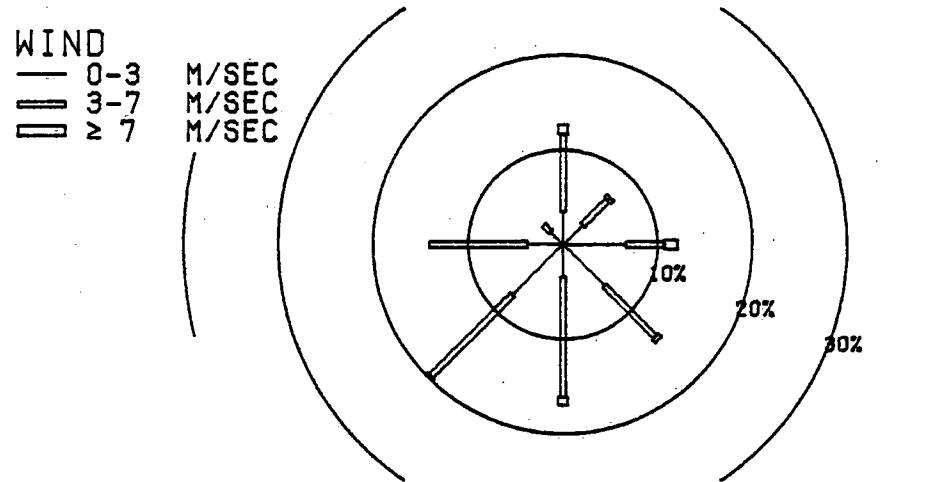
DEPTH: M

◎ - 31 M
△ - M

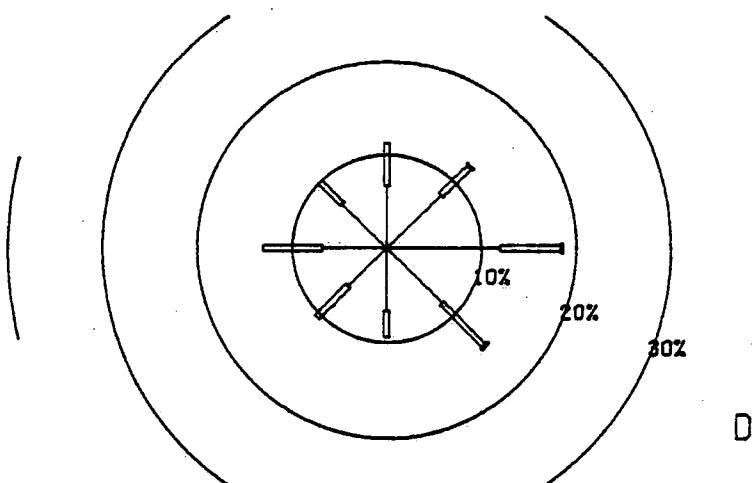
TEMPERATURE °C



MOORING: 5 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*



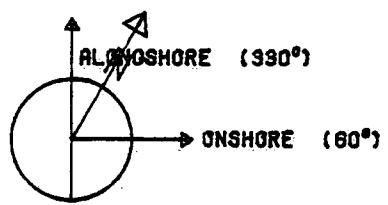
DEPTH: M



DEPTH: 25 M

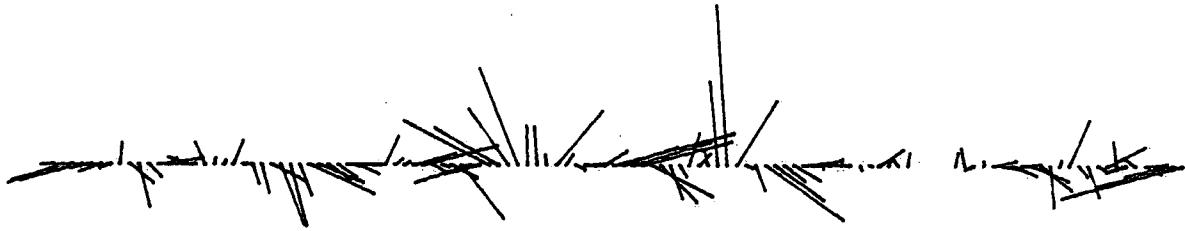
* DIRECTION TOWARDS

MOORING: 76-5C-05 DATE: JUNE 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

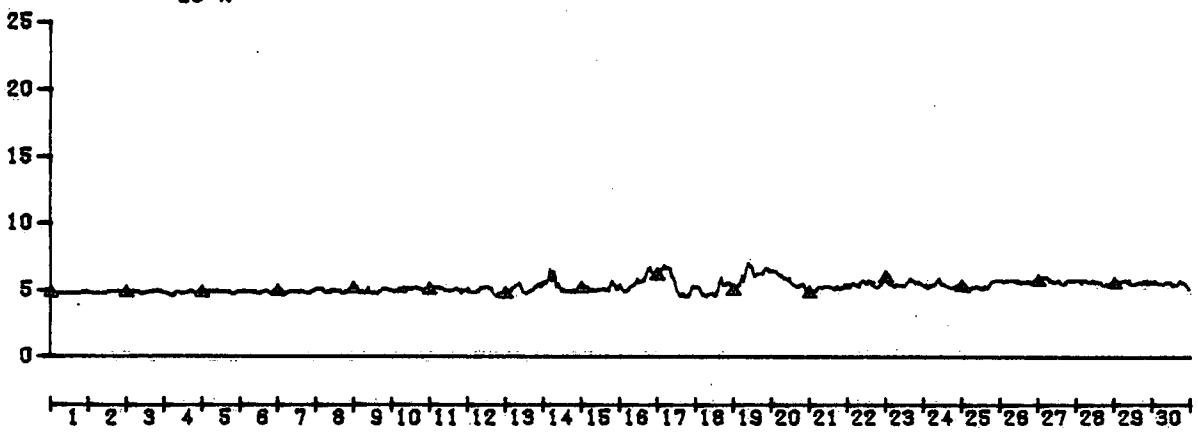
DEPTH: 10 M

DEPTH: 25 M



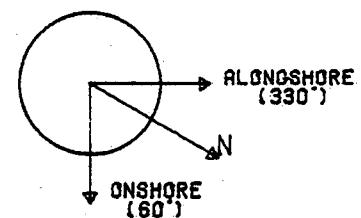
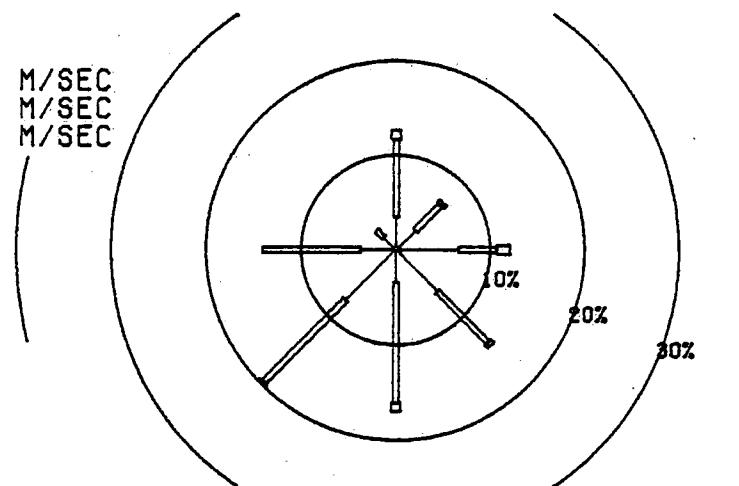
◎ - 10 M
△ - 25 M

TEMPERATURE °C

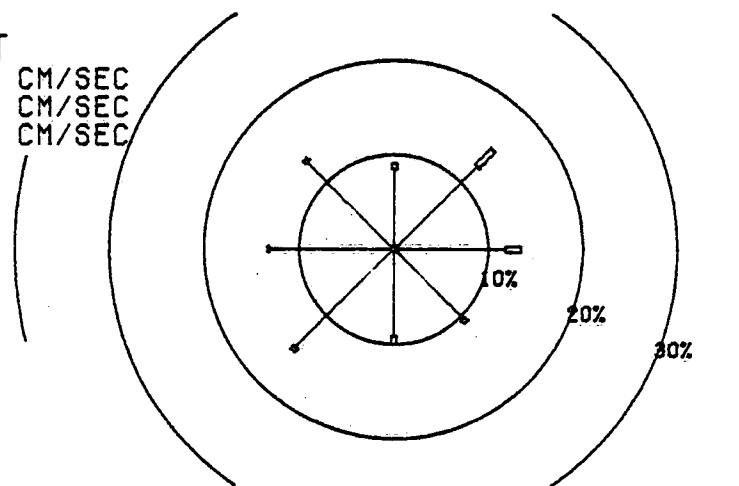


MOORING: 5 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

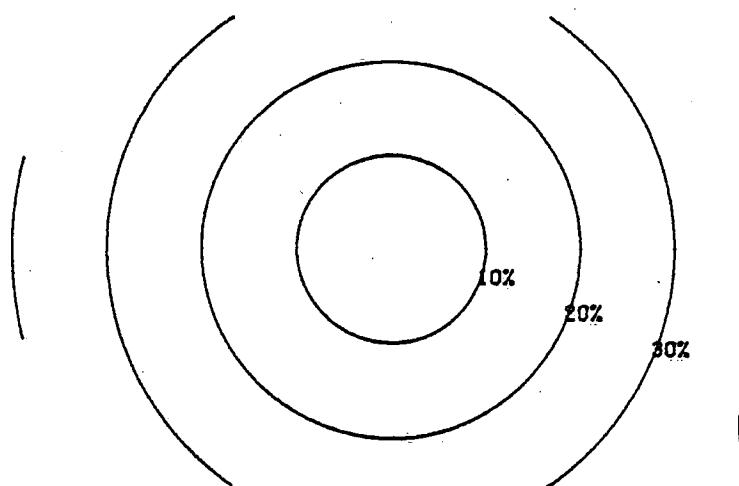


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



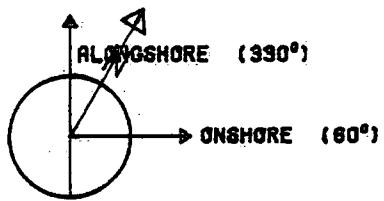
DEPTH: 37 M

* DIRECTION TOWARDS



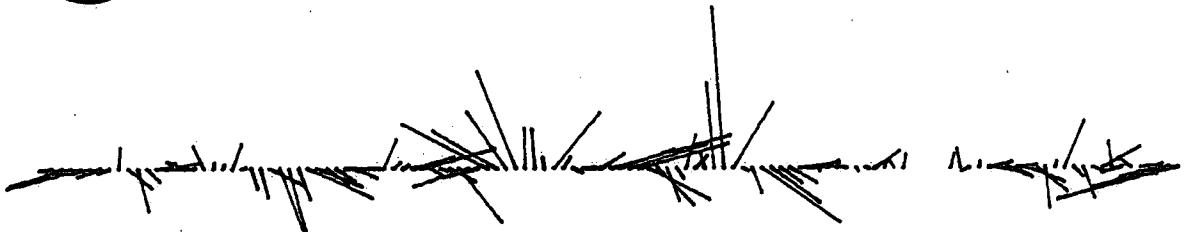
DEPTH: M

MOORING: 76-5C-05 DATE: JUNE 1976



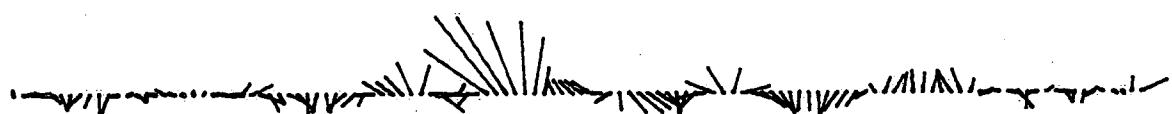
WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

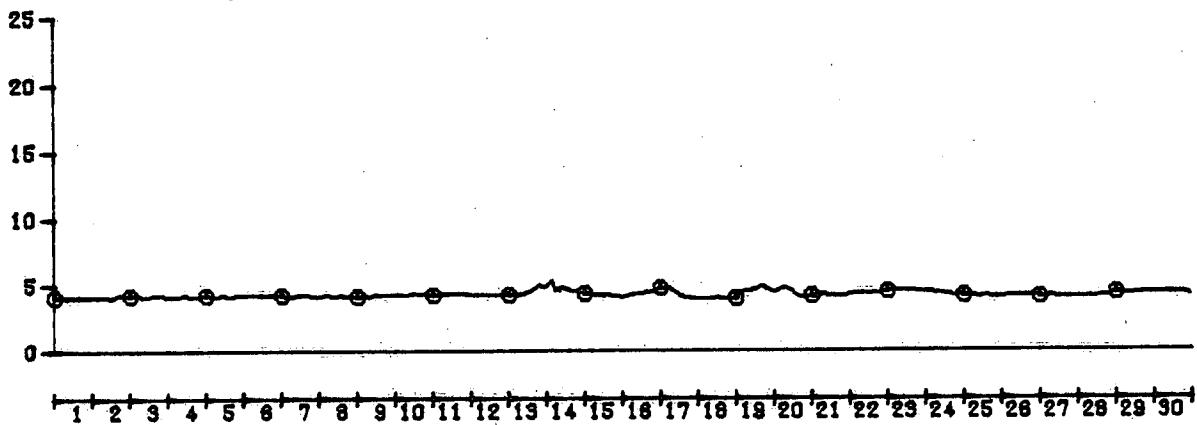
DEPTH: 36 M



DEPTH: M

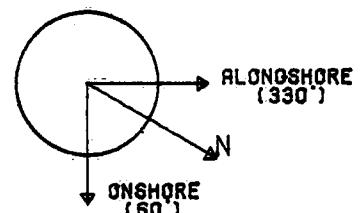
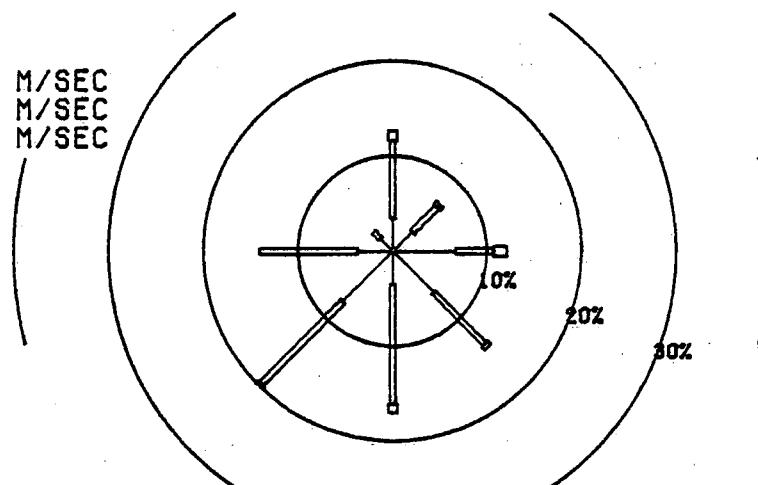
○ - 36 M
△ - M

TEMPERATURE °C

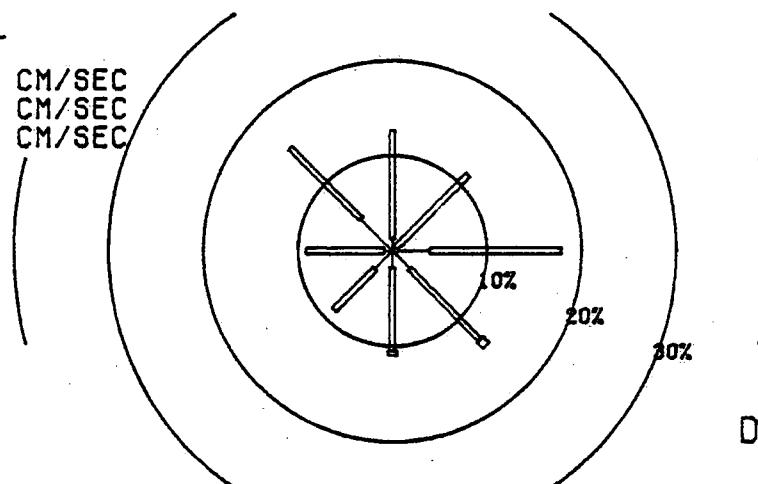


MOORING: 6 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

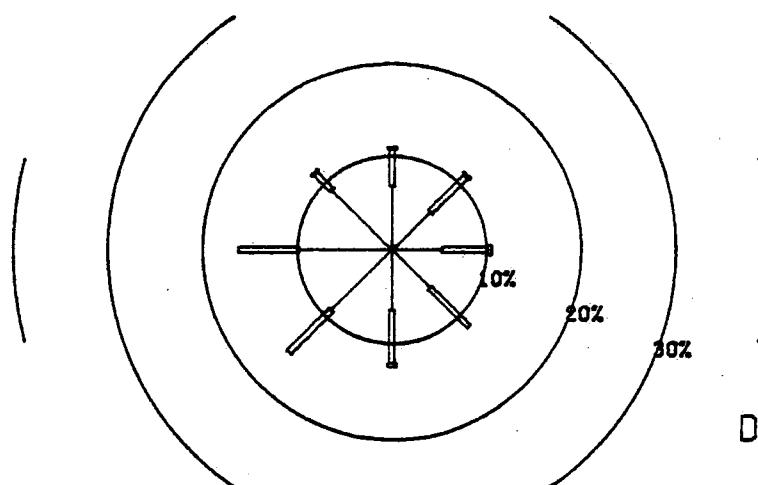


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



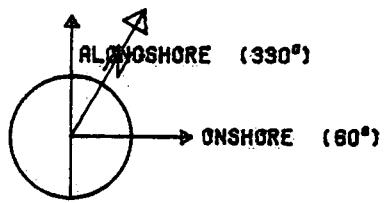
DEPTH: 10 M

* DIRECTION TOWARDS



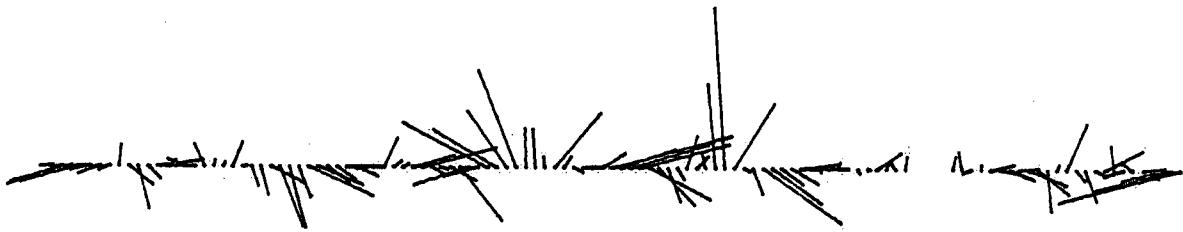
DEPTH: 25 M

MOORING: 76-5C-06 DATE: JUNE 1976



WINDSPEED²

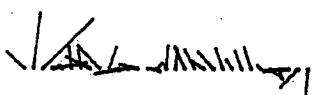
0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC

DEPTH: 10 M

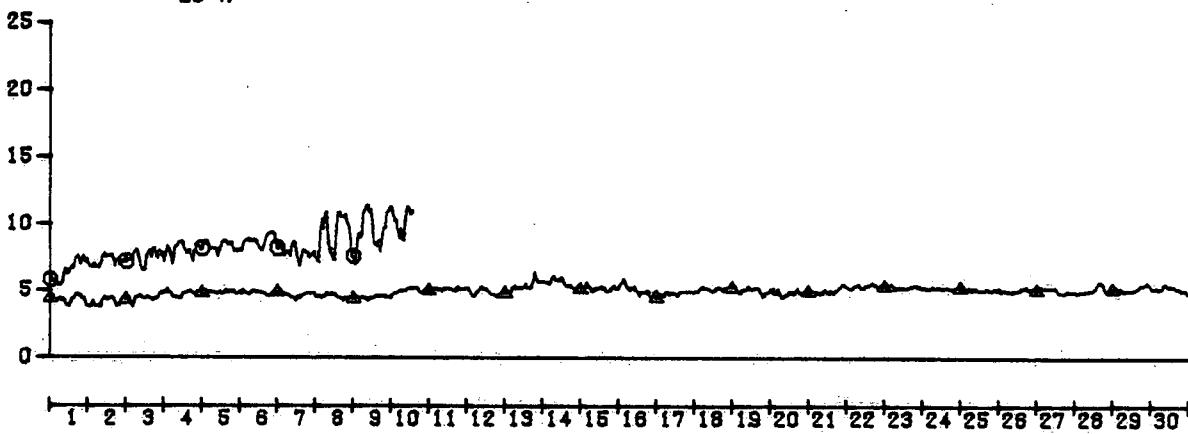


DEPTH: 25 M



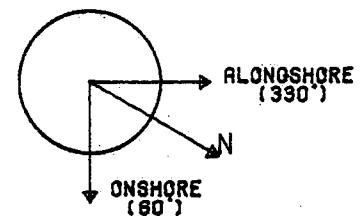
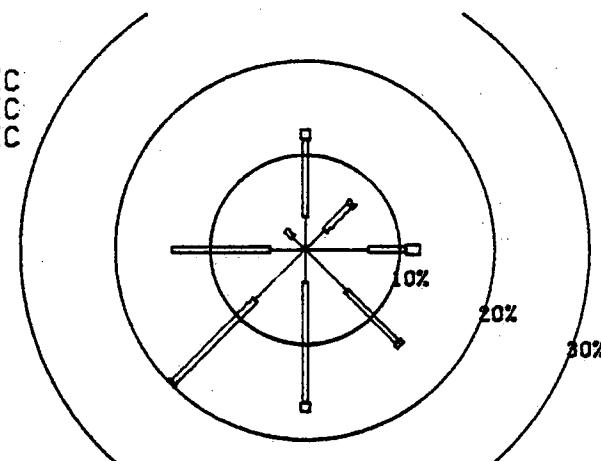
○ - 10 M
△ - 25 M

TEMPERATURE °C

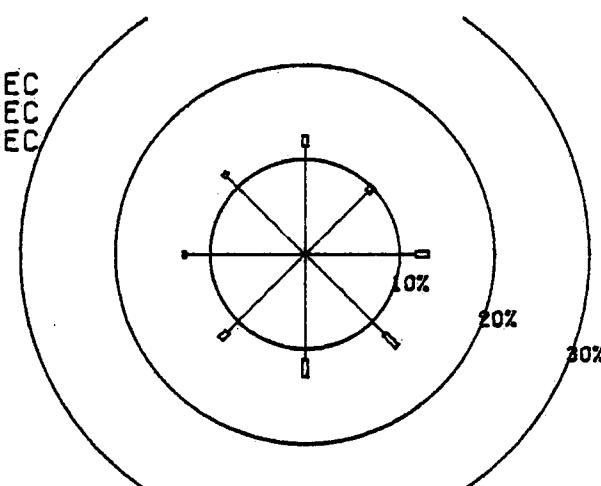


MOORING: 6 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

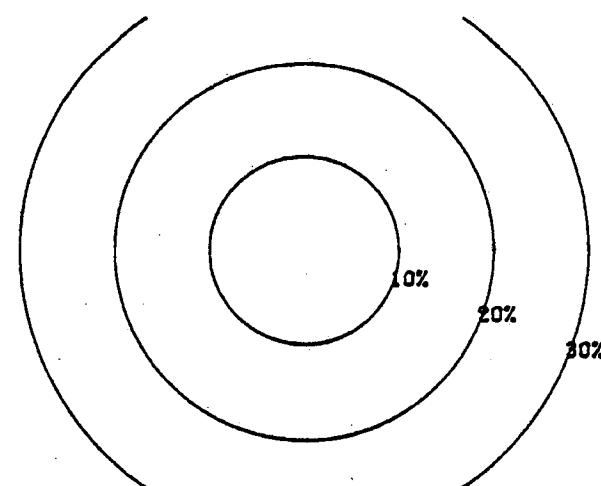


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



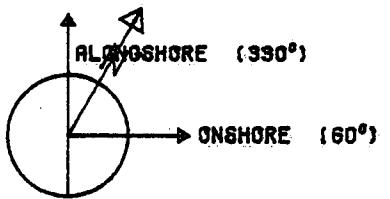
DEPTH: 43 M

* DIRECTION TOWARDS



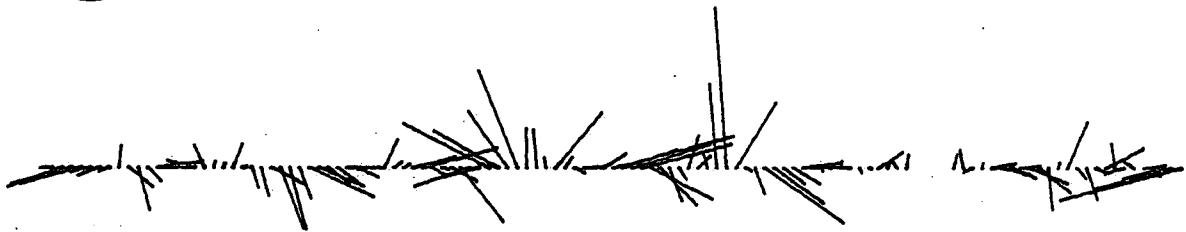
DEPTH: M

MOORING: 76-5C-06 DATE: JUNE 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

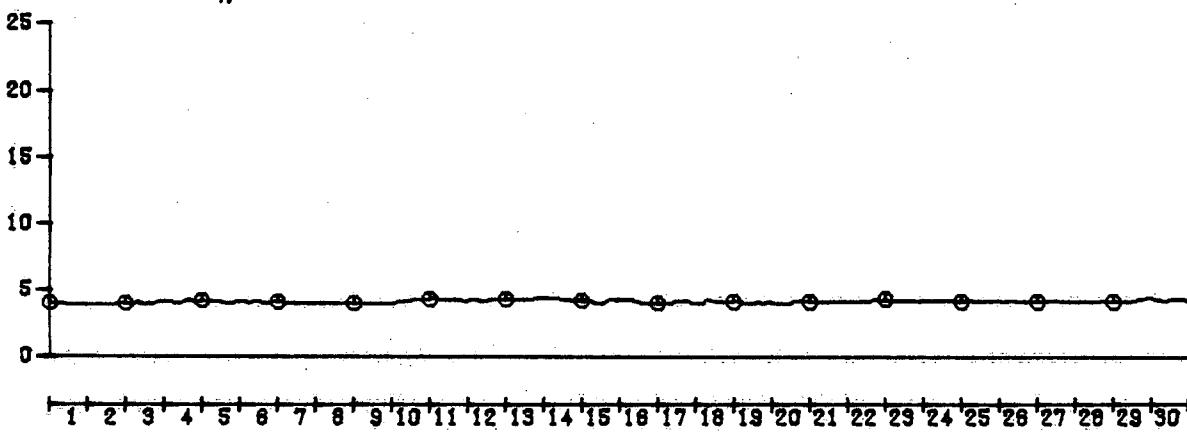
DEPTH: 43 M



DEPTH: M

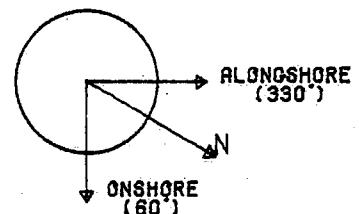
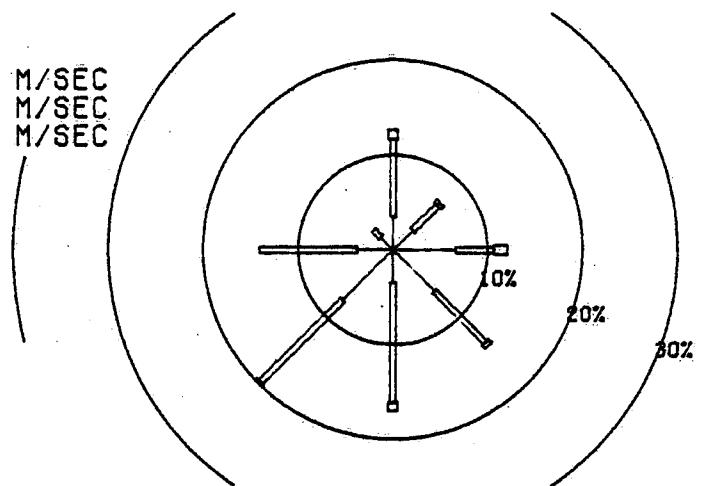
○ - 43 M
△ - M

TEMPERATURE °C

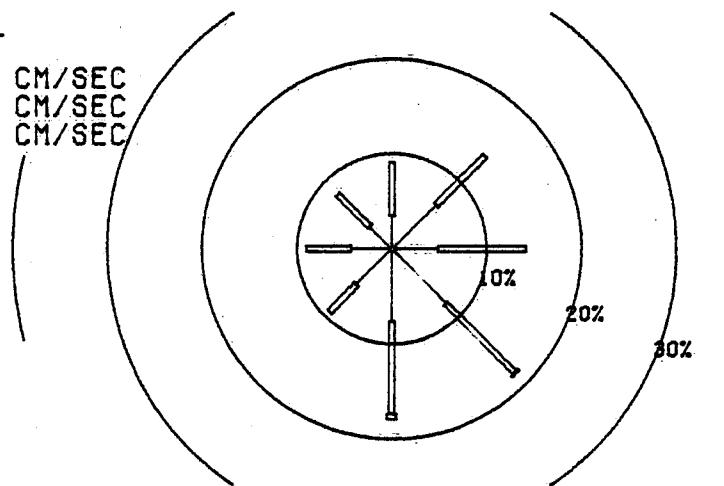


MOORING: 7 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

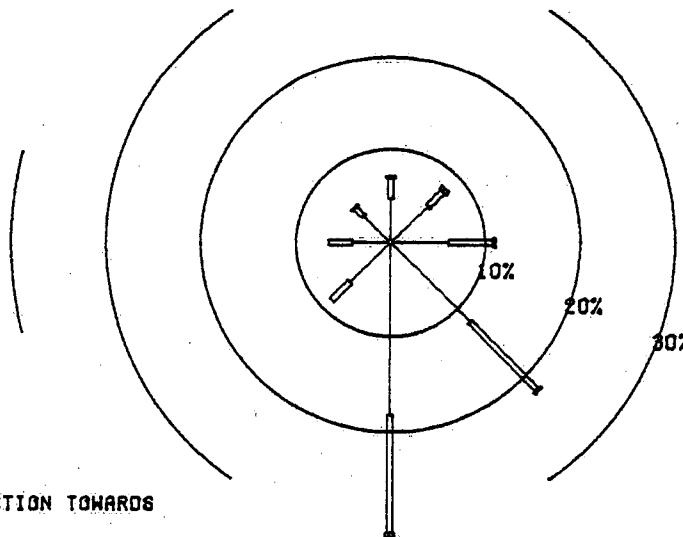


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



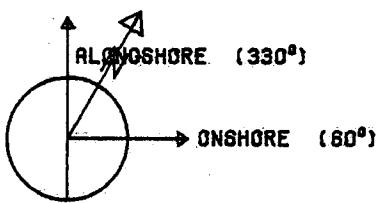
DEPTH: 10 M

* DIRECTION TOWARDS



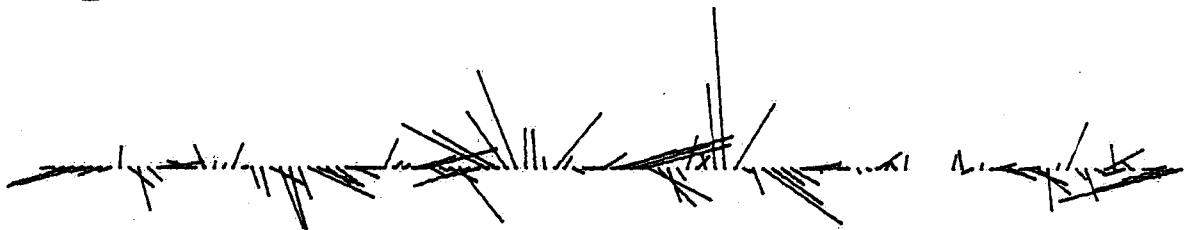
DEPTH: 25 M

MOORING: 76-5C-07 DATE: JUNE 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

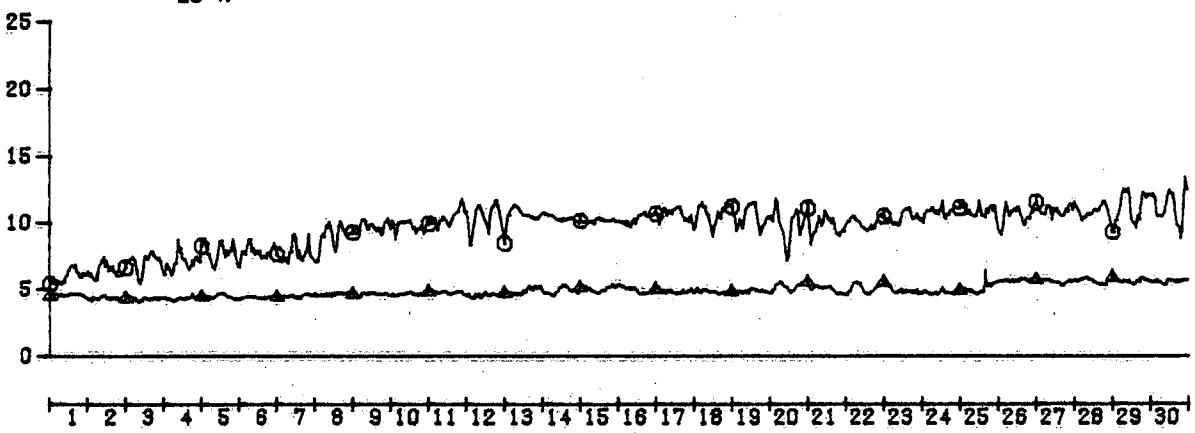


DEPTH: 25 M



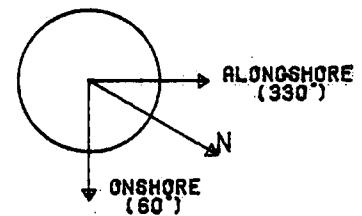
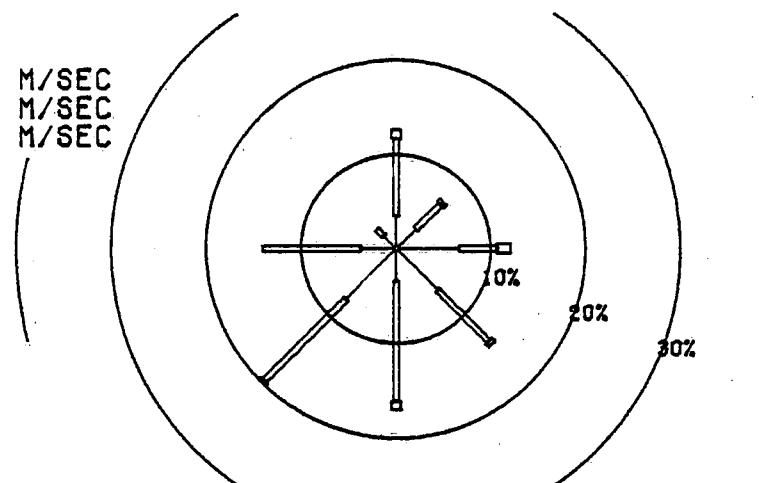
Θ - 10 M
Δ - 25 M

TEMPERATURE °C

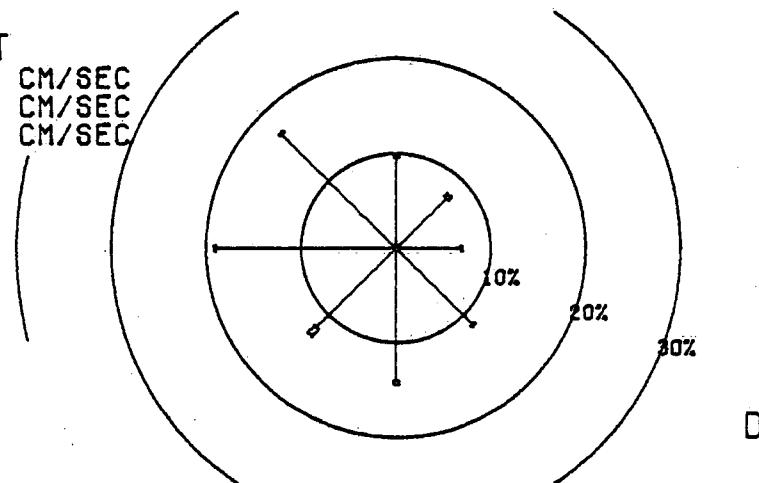


MOORING: 7 DATE: JUNE 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

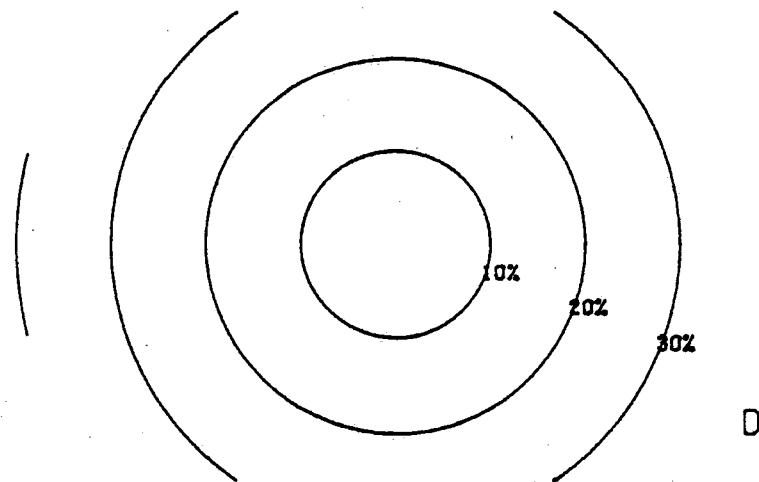


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



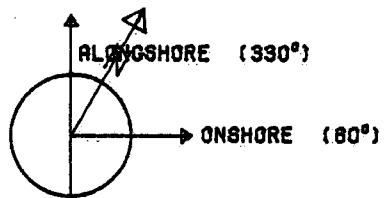
DEPTH: 55 M

* DIRECTION TOWARDS



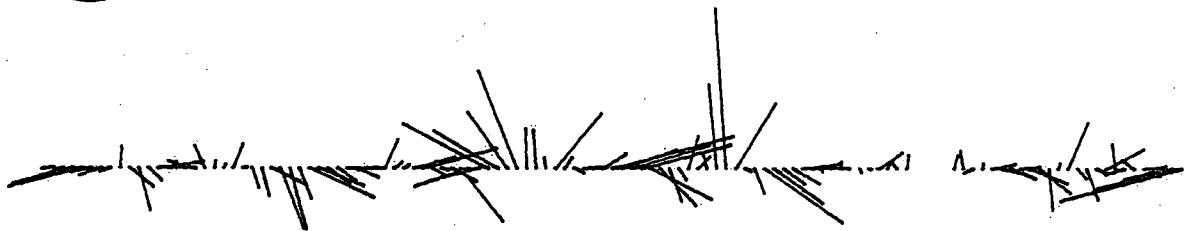
DEPTH: M

MOORING: 76-5C-07 DATE: JUNE 1976



WINDSPEED²

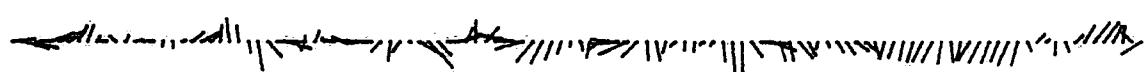
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

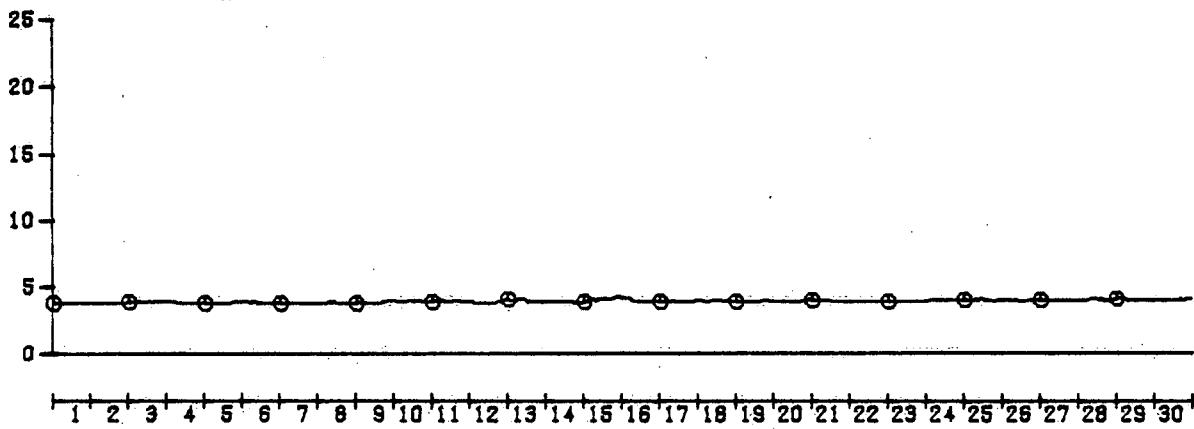
DEPTH: 55 M



DEPTH: M

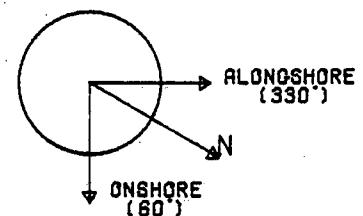
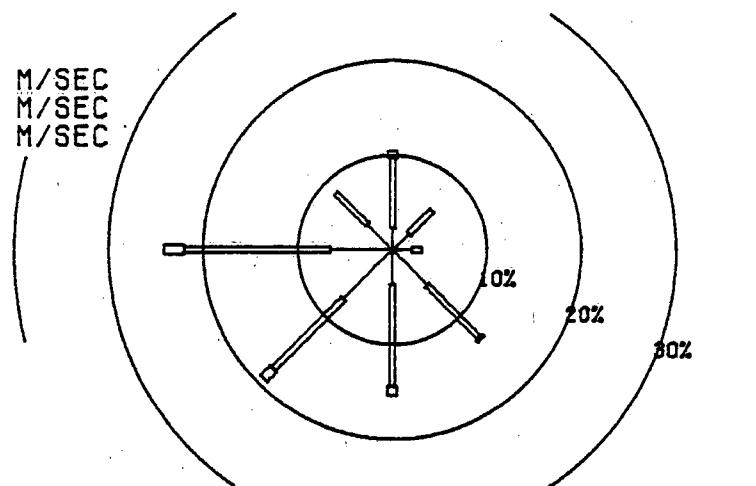
○ - 55 M
△ - M

TEMPERATURE °C

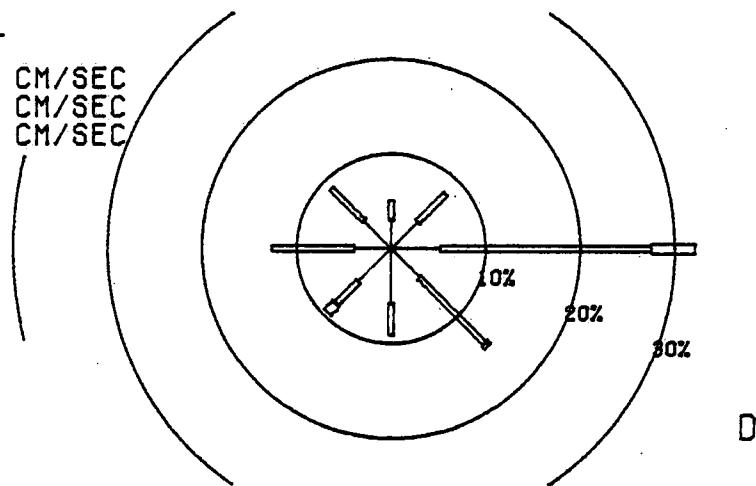


MOORING: 1 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

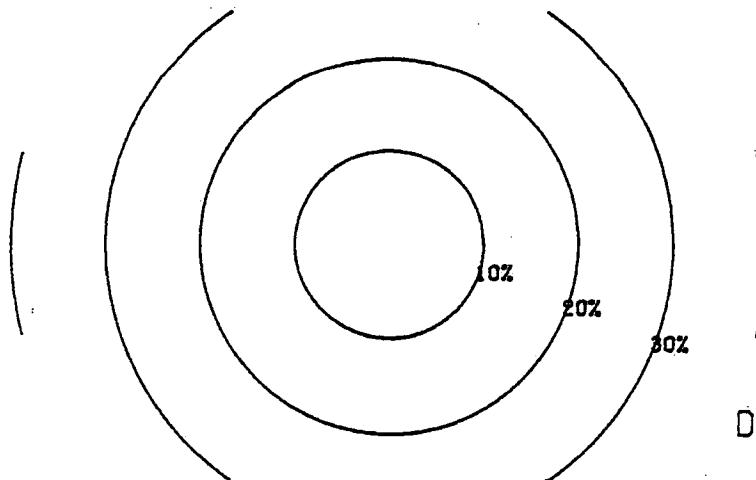


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



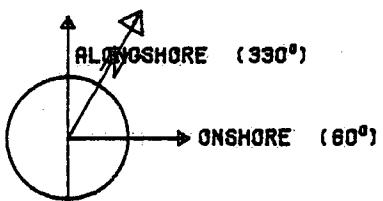
DEPTH: 10 M

* DIRECTION TOWARDS



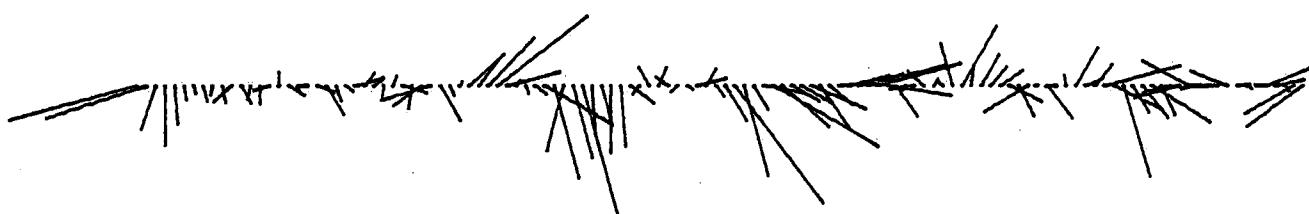
DEPTH: M

MOORING: 76-5C-01 DATE: JULY 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

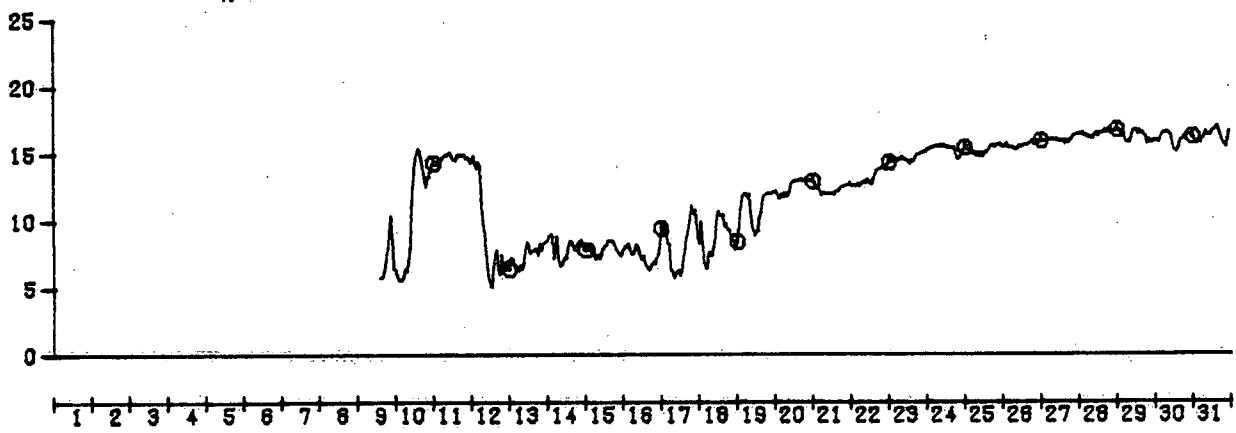
DEPTH: 10 M



DEPTH: M

○ - 10 M
△ - M

TEMPERATURE °C

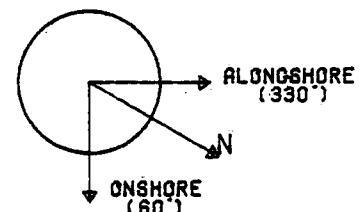
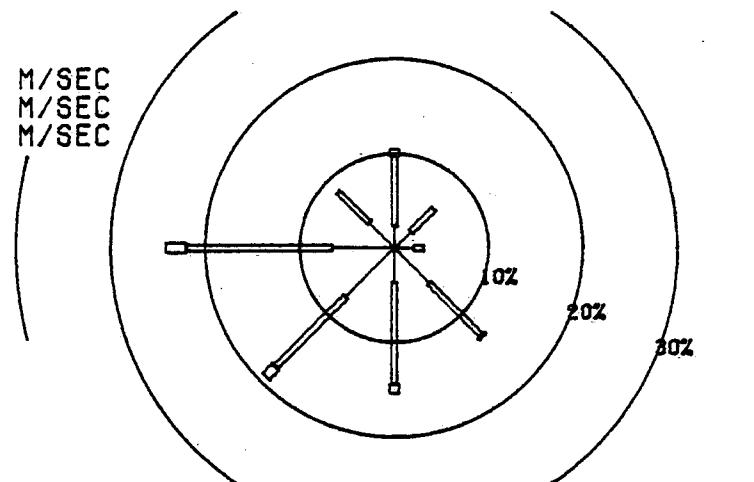


MOORING: 2

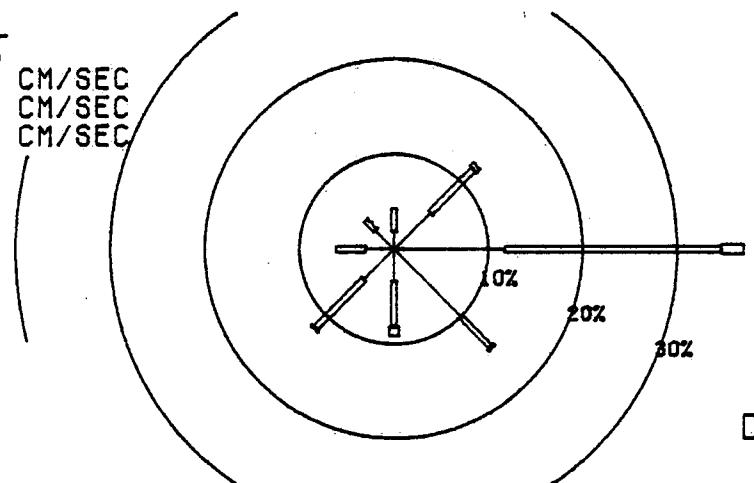
DATE: JULY 1976

MONTHLY SUMMARY: WIND AND CURRENT*

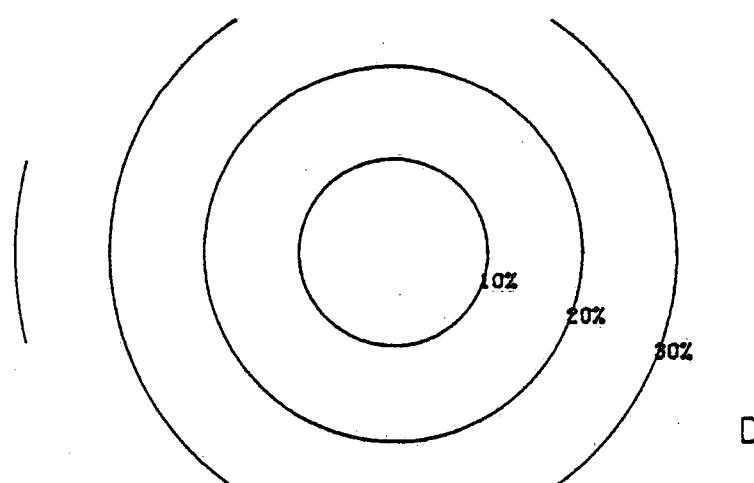
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



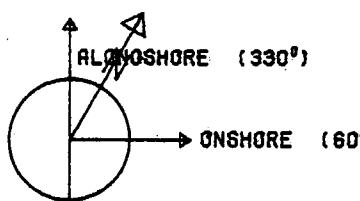
DEPTH: 10 M



DEPTH: M

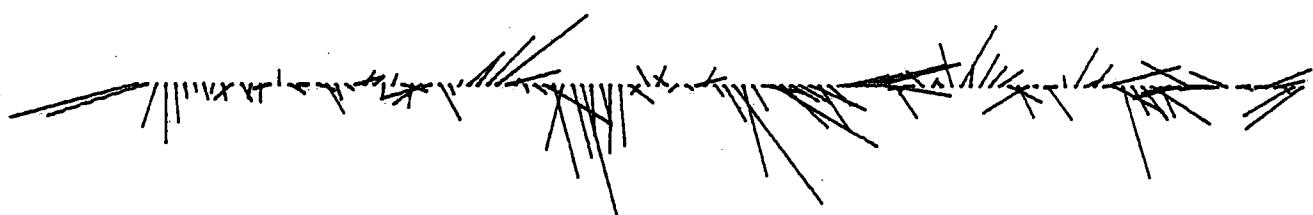
* DIRECTION TOWARDS

MOORING: 76-5C-02 DATE: JULY 1976



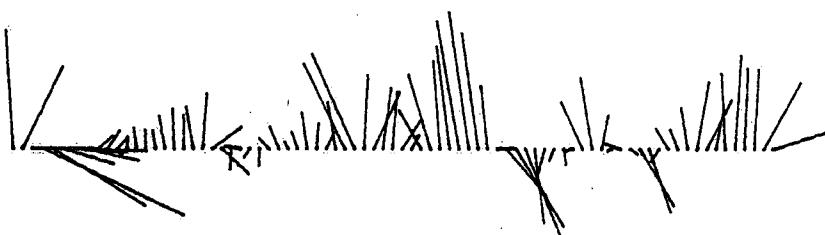
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

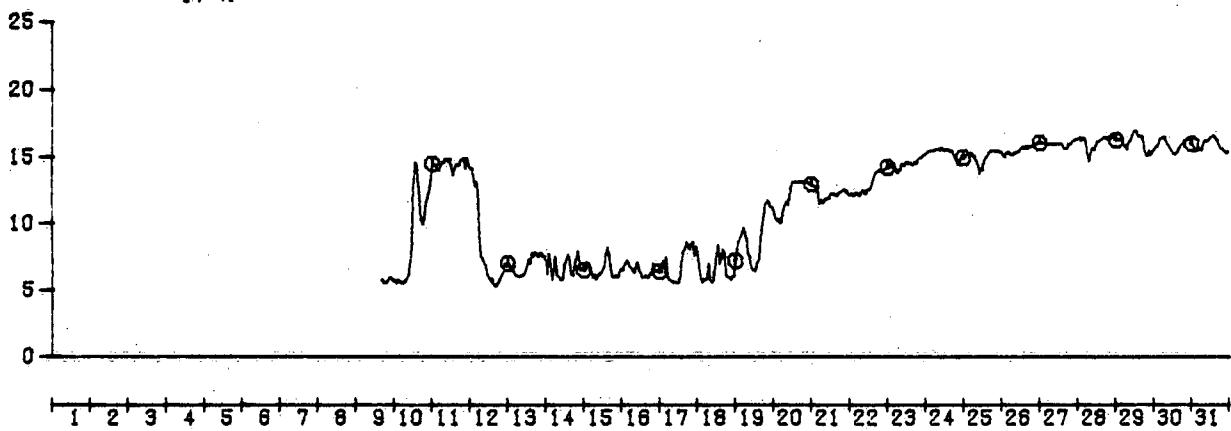
DEPTH: 10 M



DEPTH: 17 M

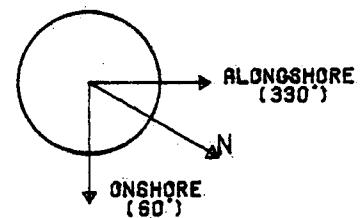
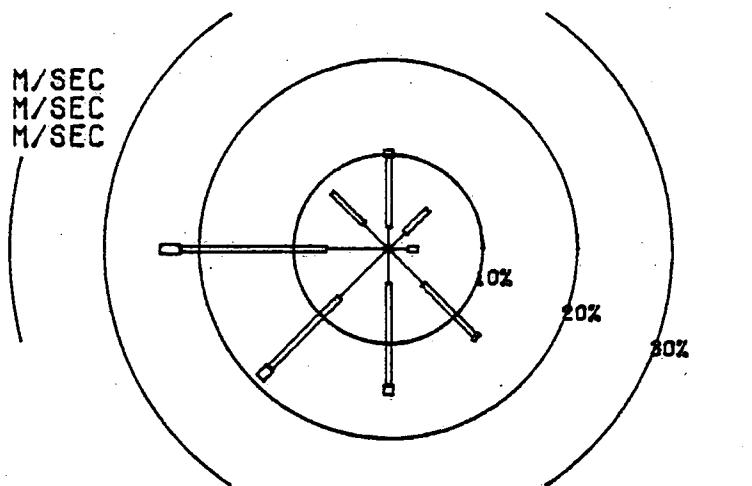
○ - 10 M
△ - 17 M

TEMPERATURE °C

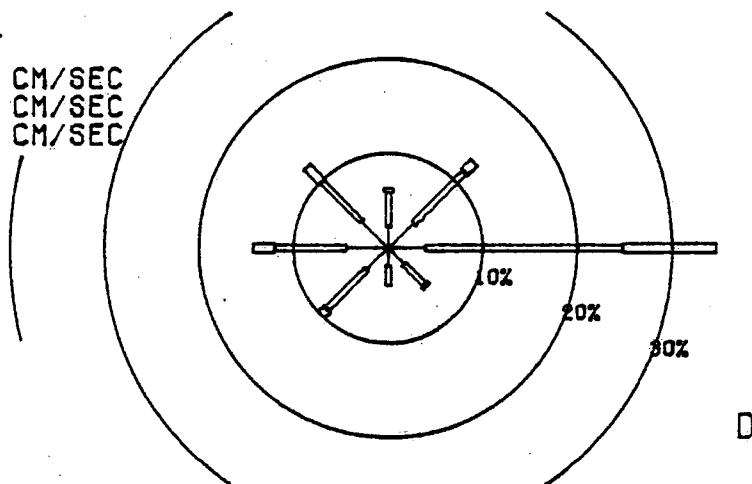


MOORING: 3 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

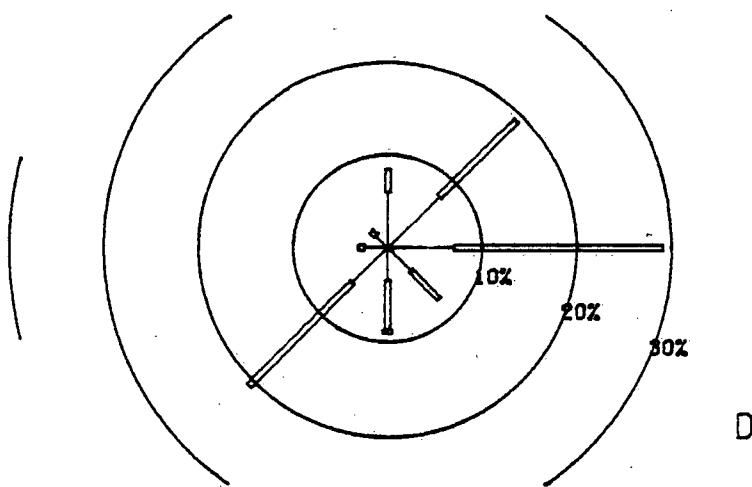
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



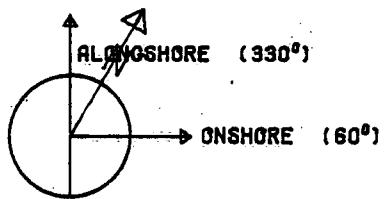
DEPTH: 10 M



DEPTH: 26 M

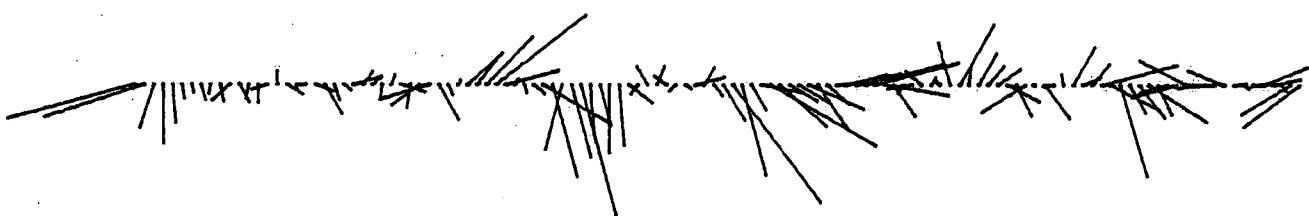
* DIRECTION TOWARDS

MOORING: 76-5C-03 DATE: JULY 1976



WINDSPEED²

0 40 M²/SEC²



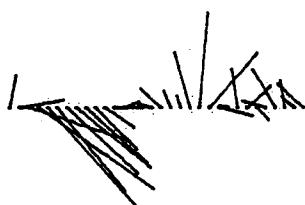
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

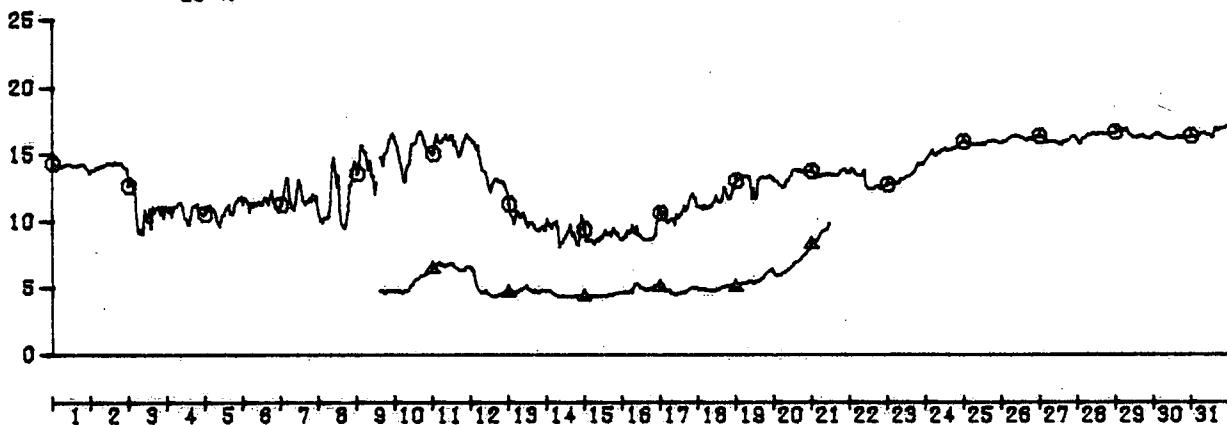


DEPTH: 26 M



○ - 10 M
△ - 26 M

TEMPERATURE °C

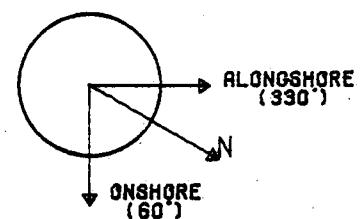
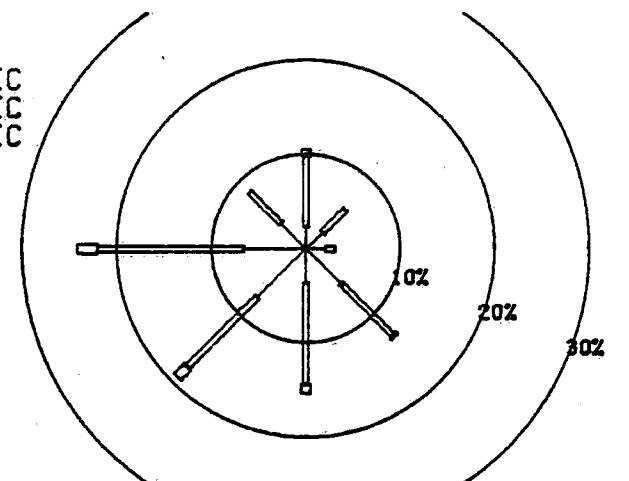


MOORING: 4

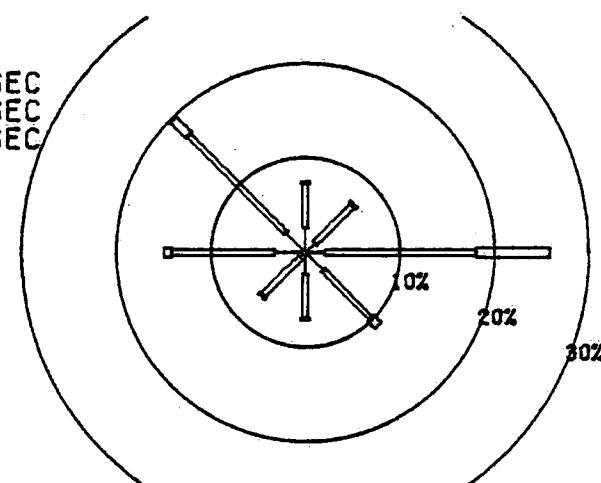
DATE: JULY 1976

MONTHLY SUMMARY: WIND AND CURRENT*

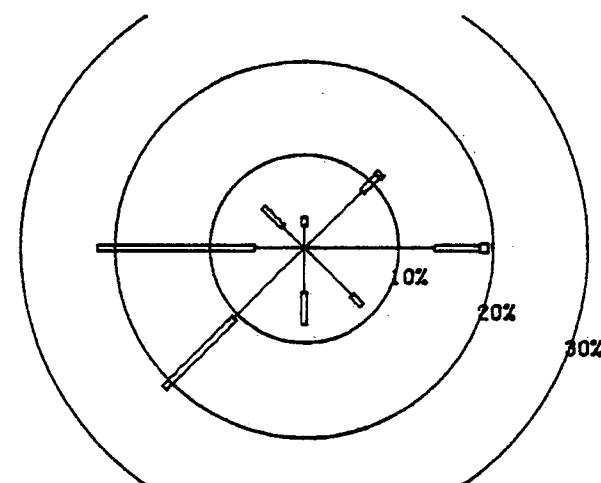
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



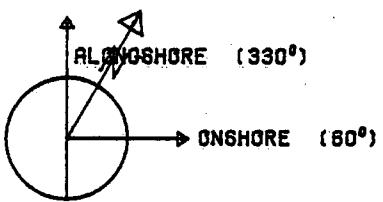
DEPTH: 10 M



DEPTH: 25 M

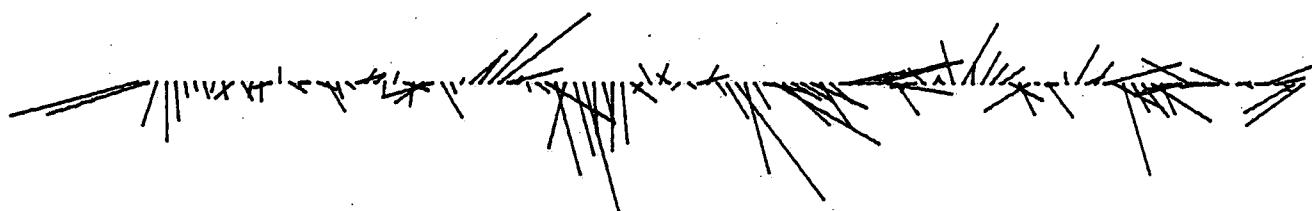
* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: JULY 1976



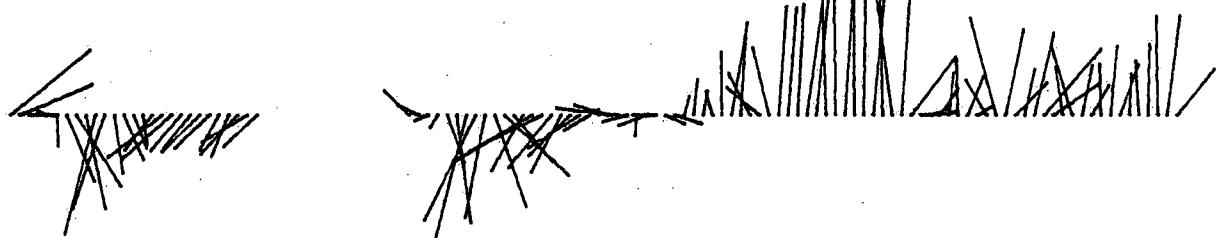
WINDSPEED²

0 M^2/SEC^2 40



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC 10

DEPTH: 10 M

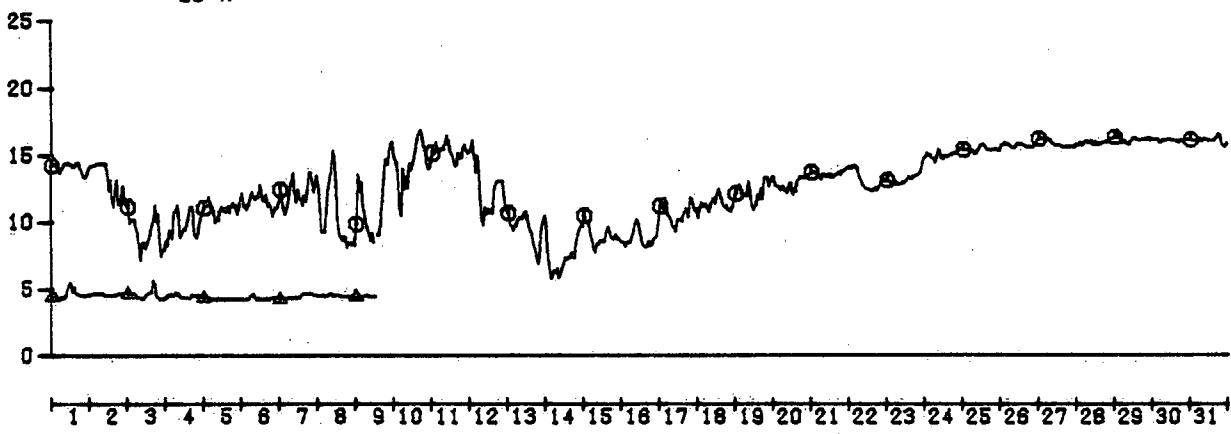


DEPTH: 25 M



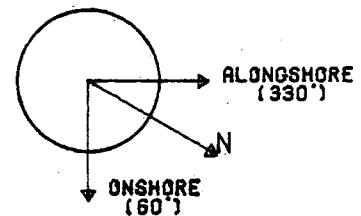
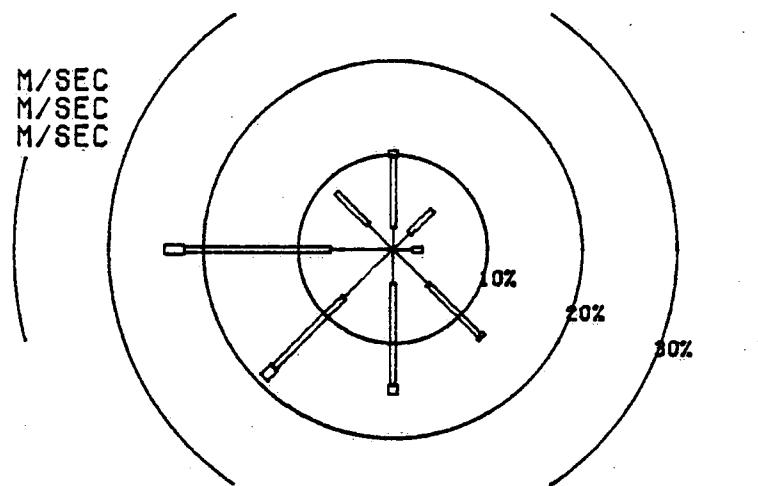
○ - 10 M
△ - 25 M

TEMPERATURE °C

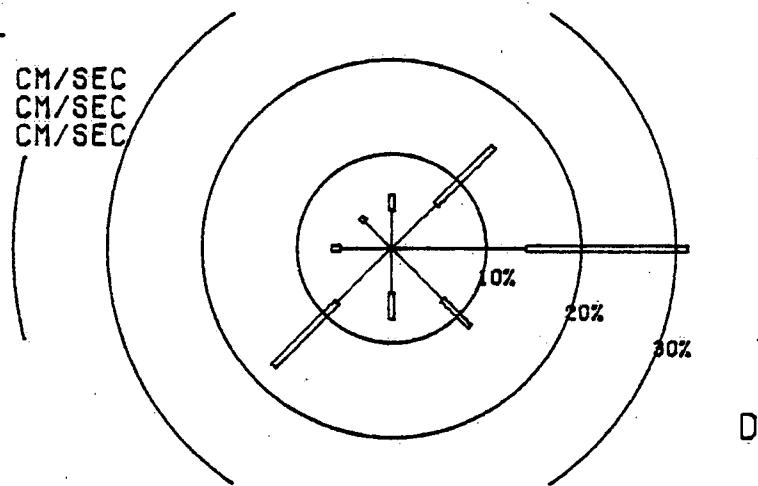


MOORING: 4 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

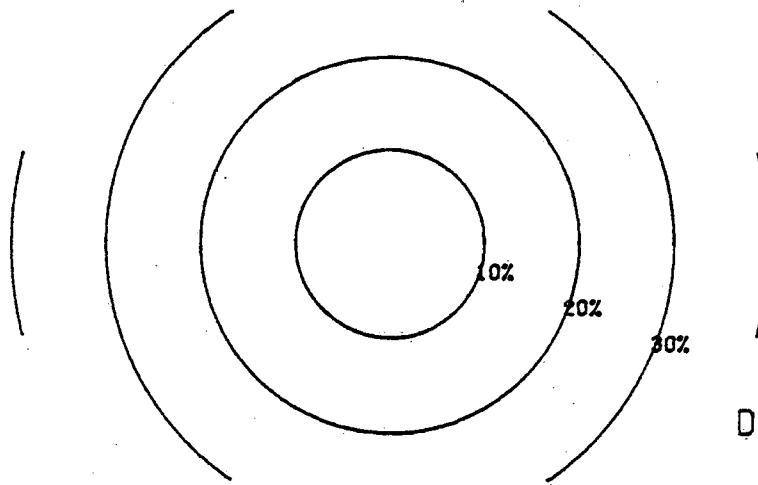


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



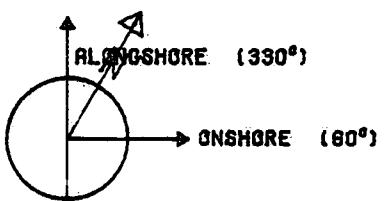
DEPTH: 31 M

* DIRECTION TOWARDS



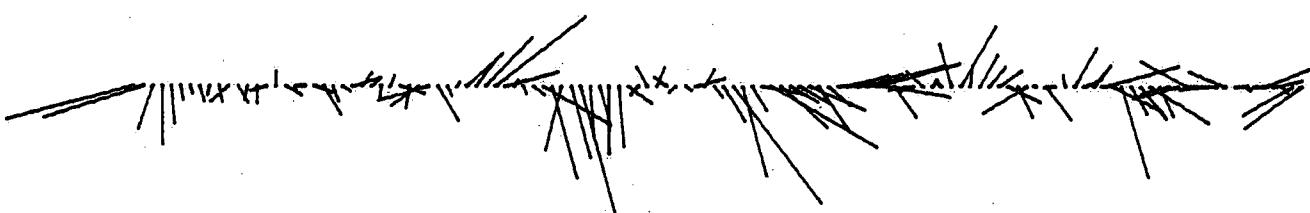
DEPTH: M

MOORING: 76-5C-04 DATE: JULY 1976



WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

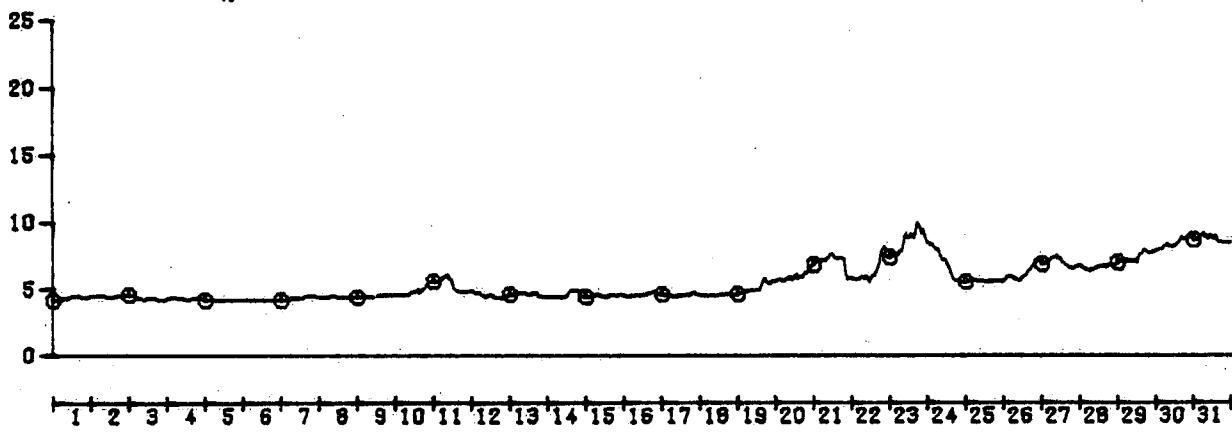
DEPTH: 31 M



DEPTH: M

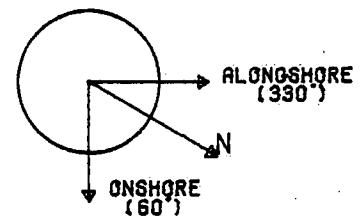
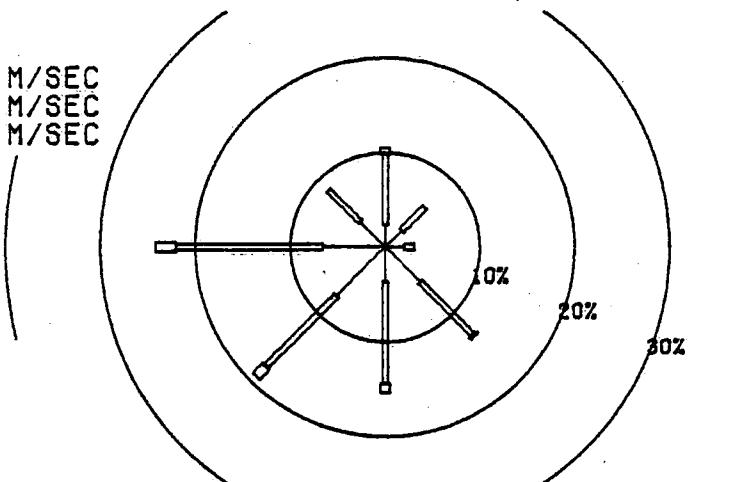
○ - 31 M
△ - M

TEMPERATURE °C

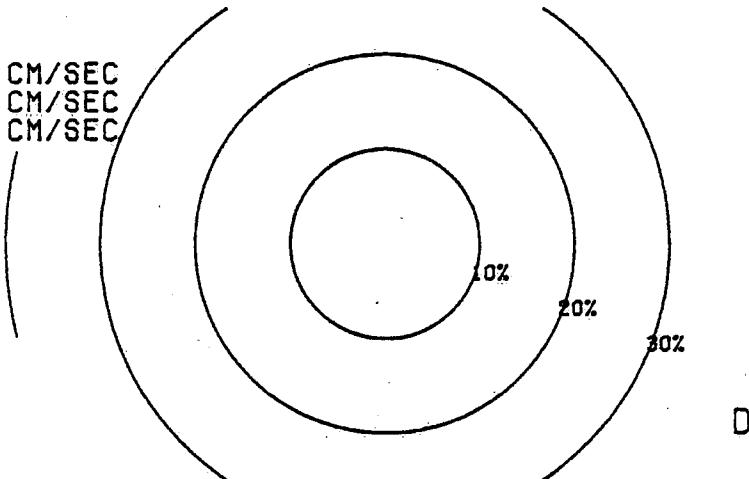


MOORING: 5 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

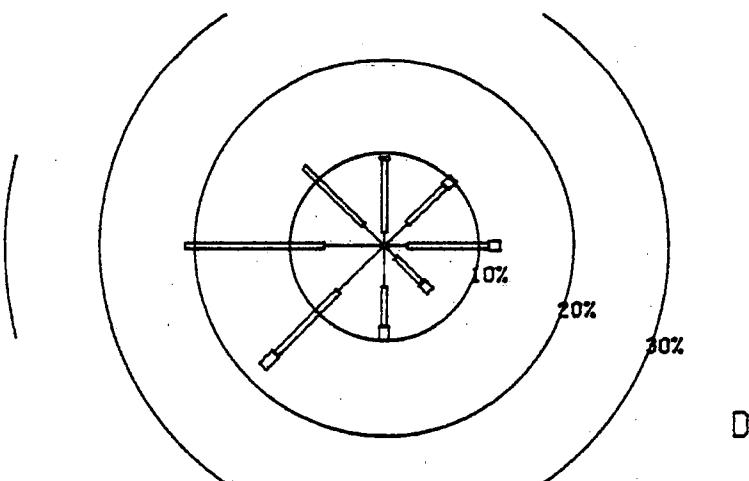
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



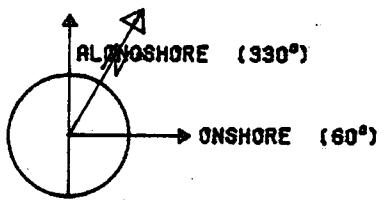
DEPTH: M



DEPTH: 25 M

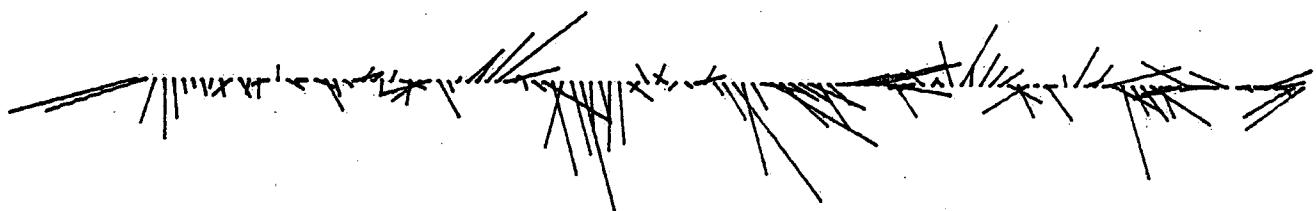
* DIRECTION TOWARDS

MOORING: 76-5C-05 DATE: JULY 1976



WINDSPEED²

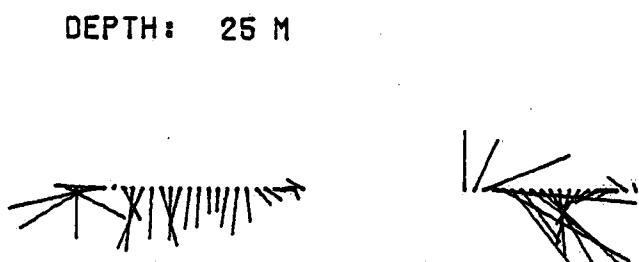
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

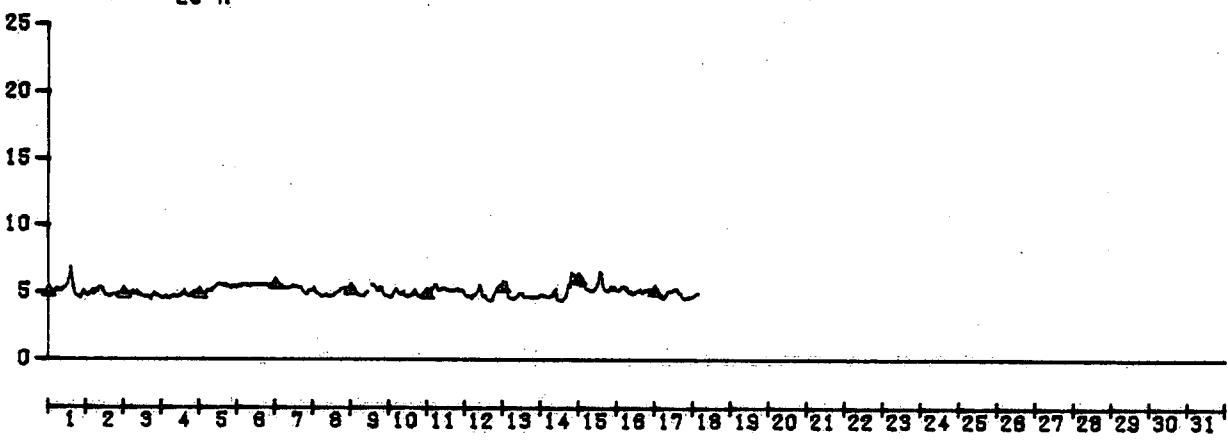
DEPTH: 10 M



DEPTH: 25 M

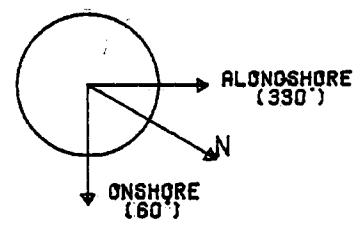
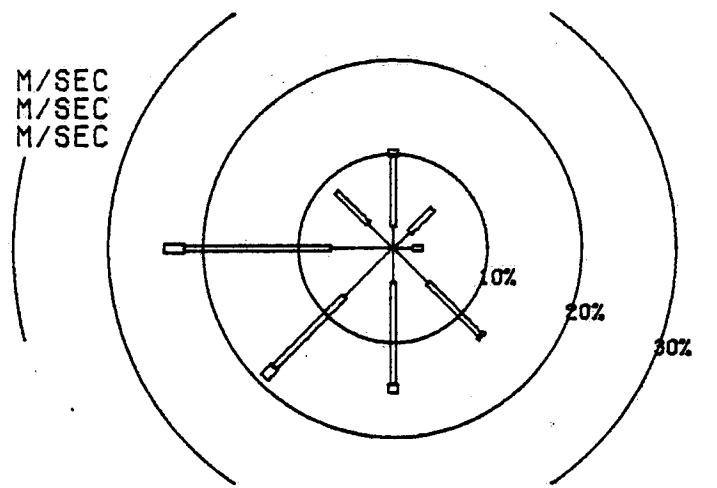
○ - 10 M
△ - 25 M

TEMPERATURE °C

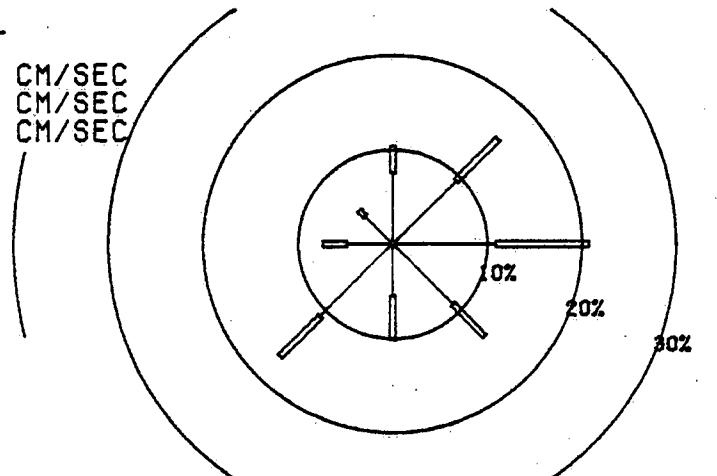


MOORING: 5 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

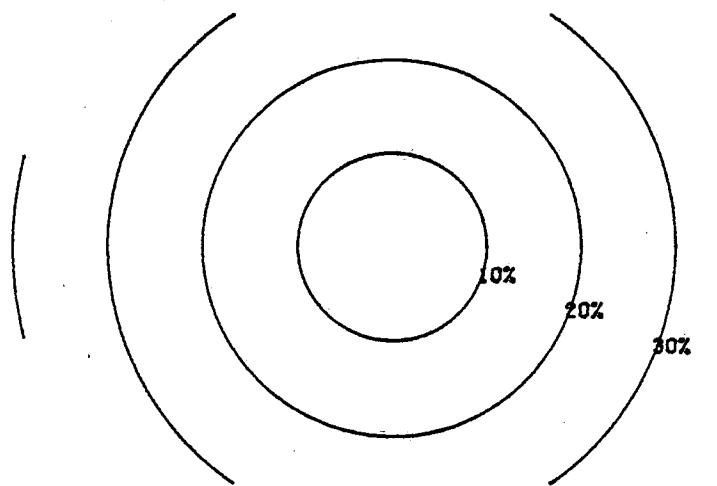


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



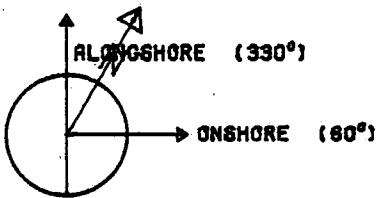
DEPTH: 37 M

* DIRECTION TOWARDS



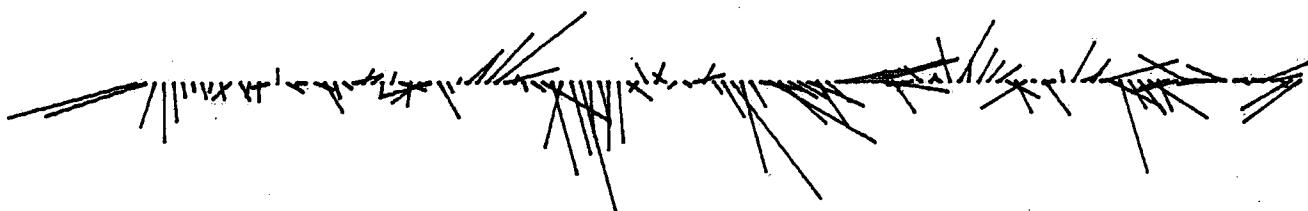
DEPTH: M

MOORING: 76-5C-05 DATE: JULY 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

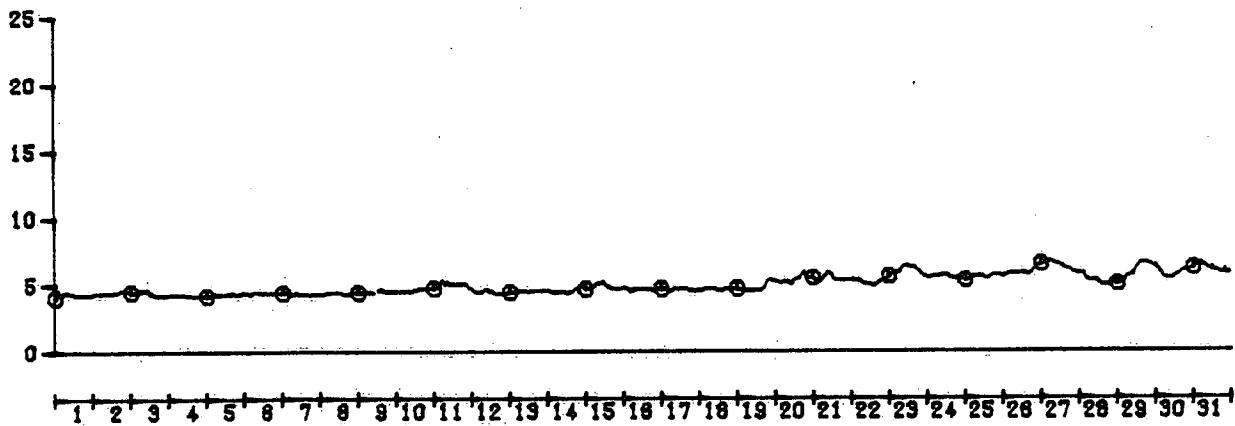
DEPTH: 36 M



DEPTH: M

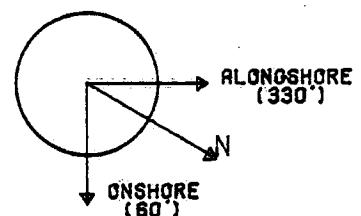
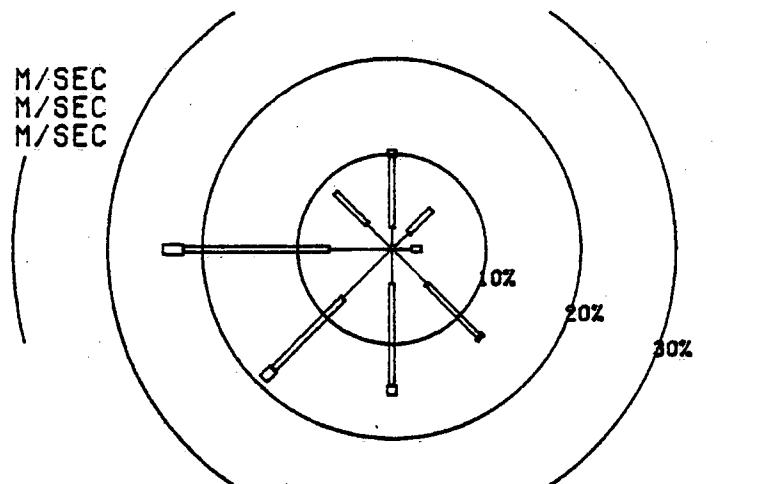
○ - 96 M
△ - M

TEMPERATURE °C

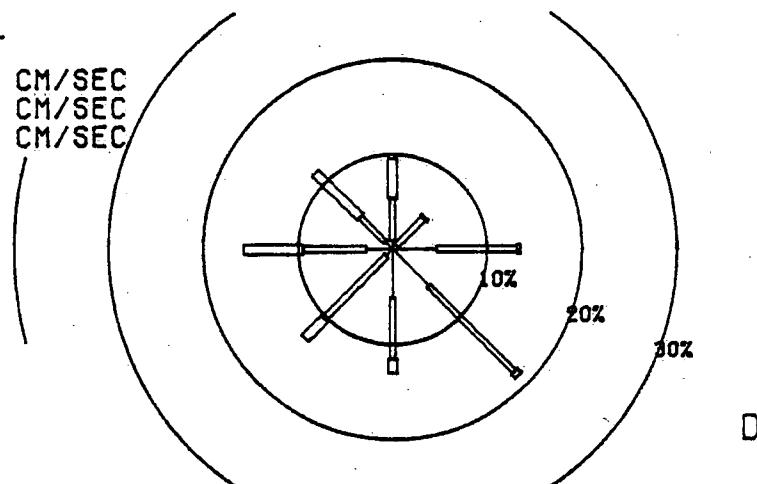


MOORING: 6 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

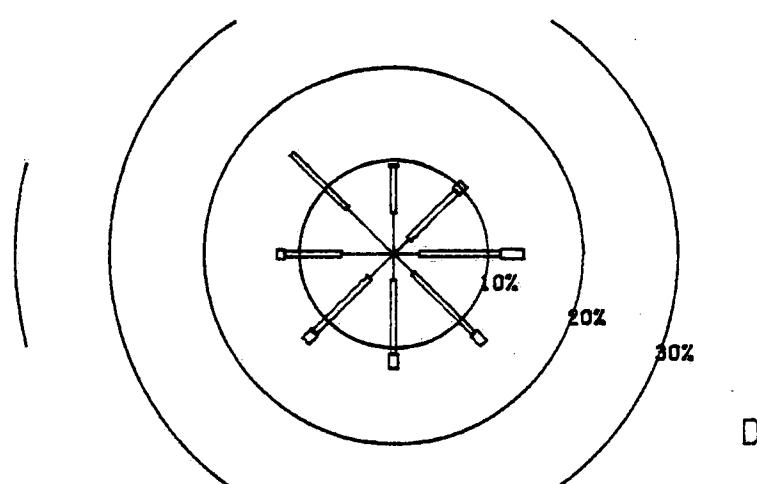
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



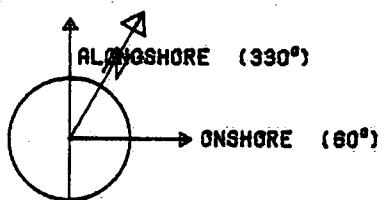
DEPTH: 10 M



DEPTH: 25 M

* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: JULY 1976



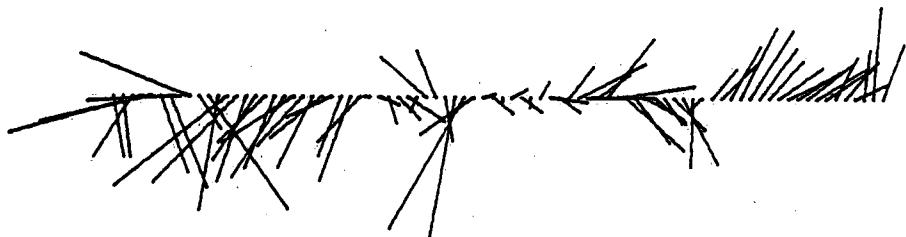
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

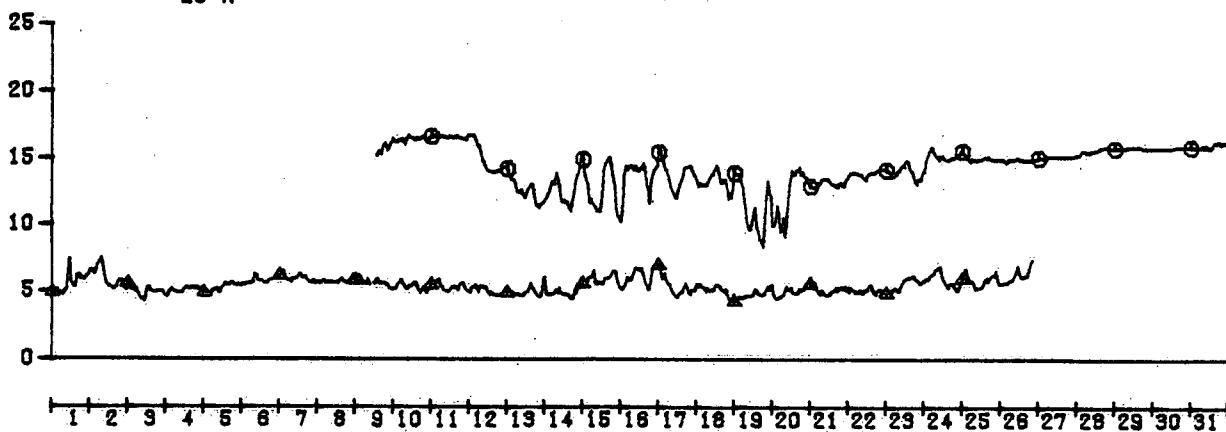


DEPTH: 25 M



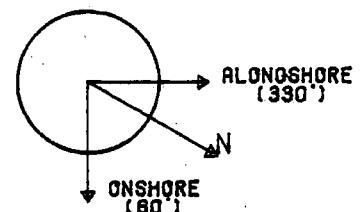
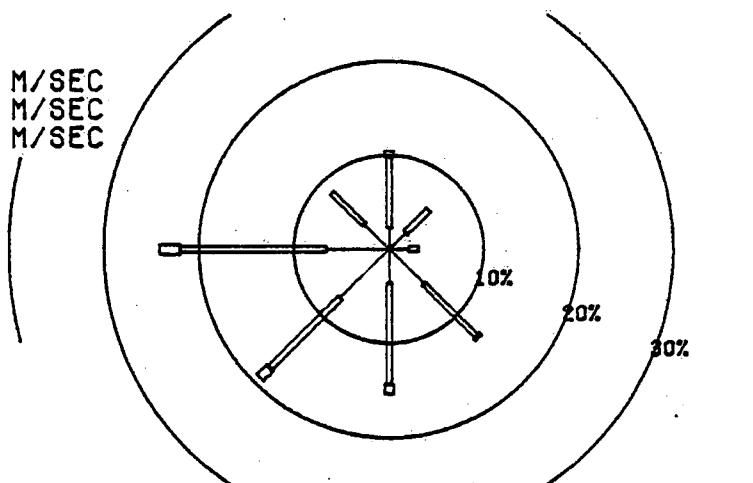
○ - 10 M
△ - 25 M

TEMPERATURE °C

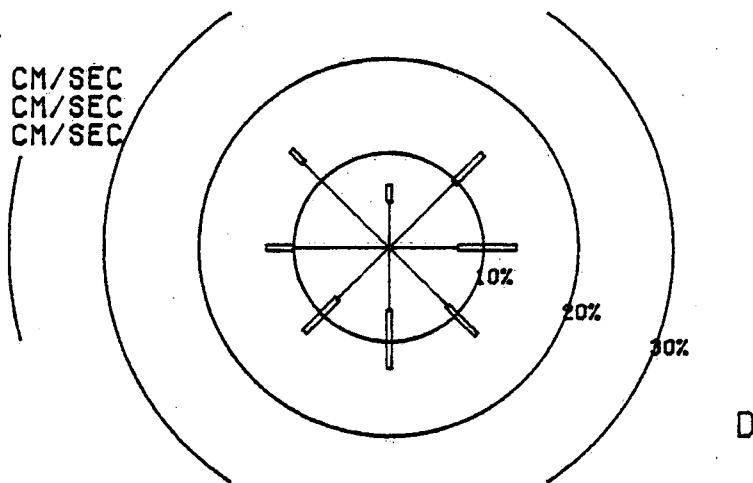


MOORING: 6 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

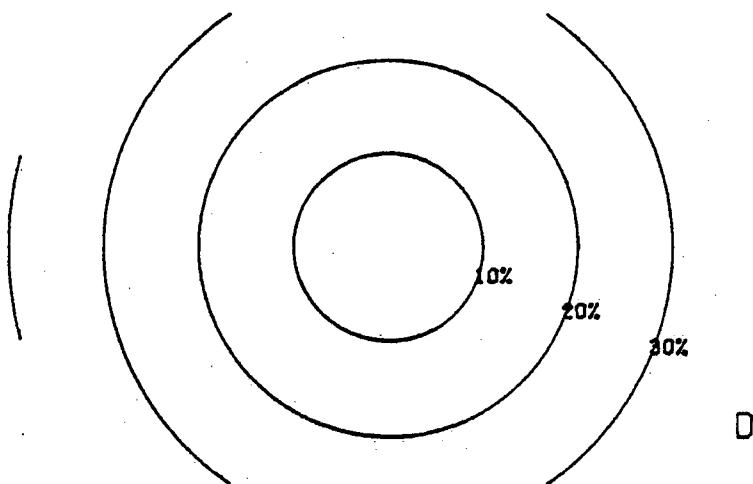


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



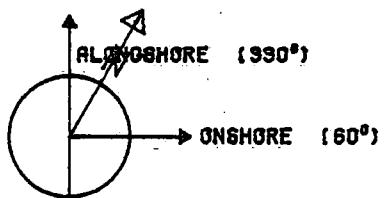
DEPTH: 43 M

* DIRECTION TOWARDS



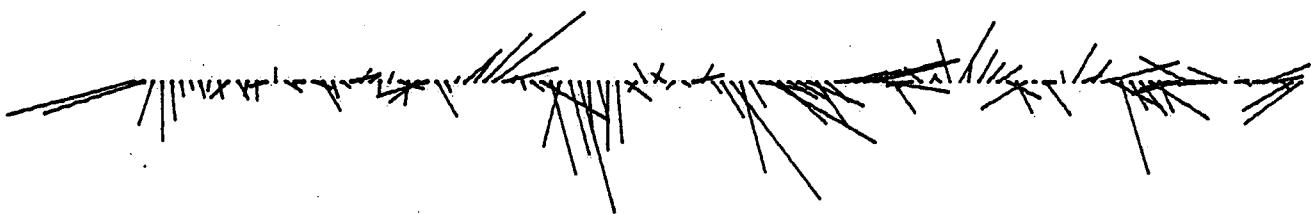
DEPTH: M

MOORING: 76-5C-06 DATE: JULY 1976



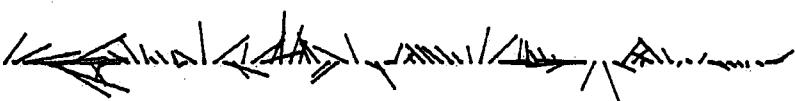
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

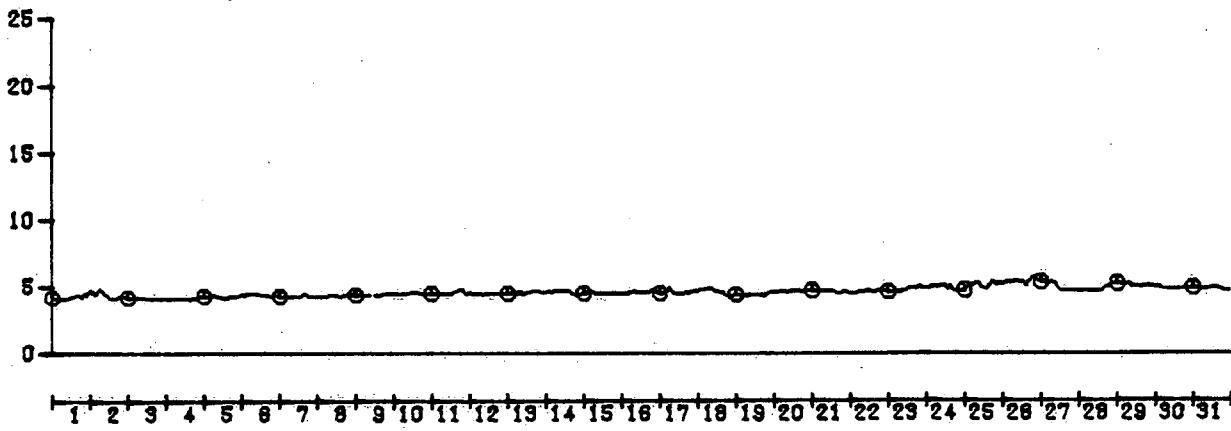
DEPTH: 43 M



DEPTH: M

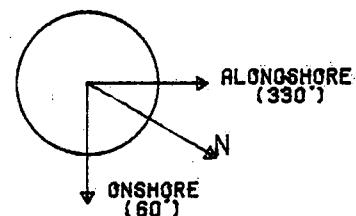
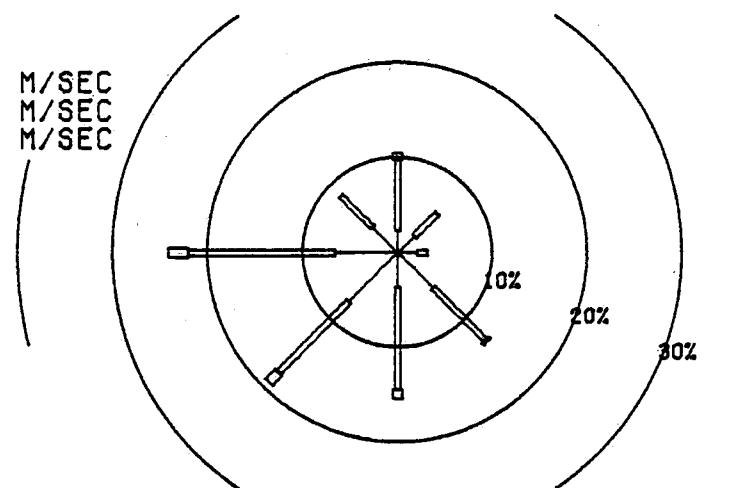
○ - 43 M
△ - M

TEMPERATURE °C

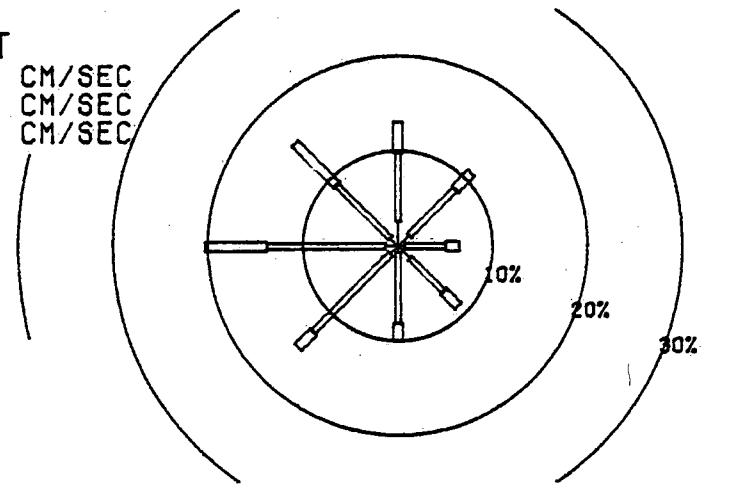


MOORING: 7 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

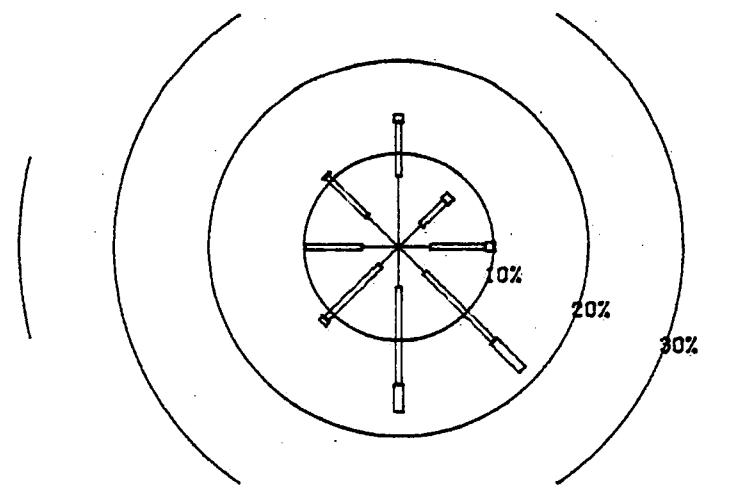
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



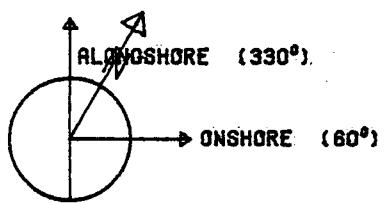
DEPTH: 10 M



DEPTH: 25 M

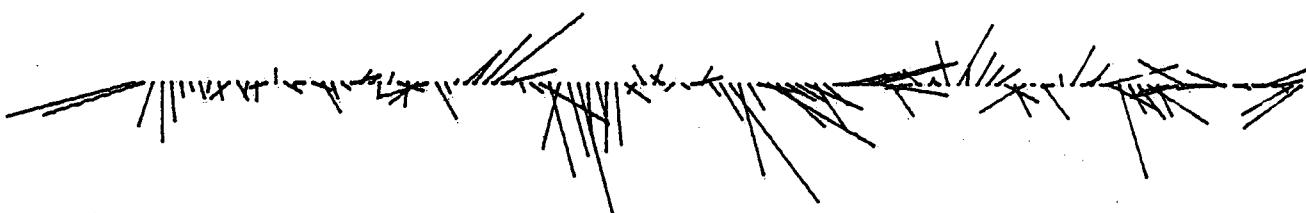
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: JULY 1976



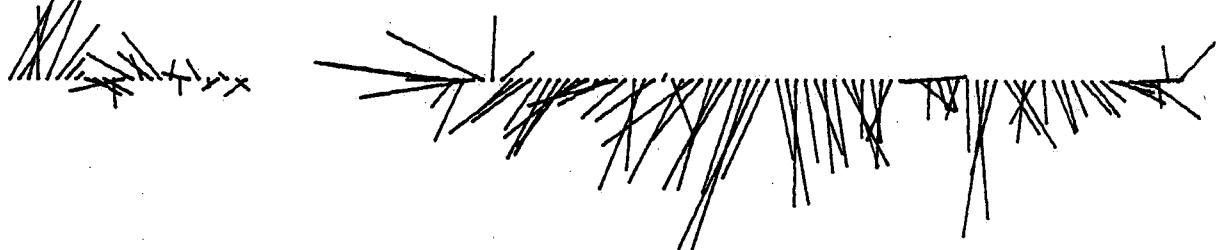
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

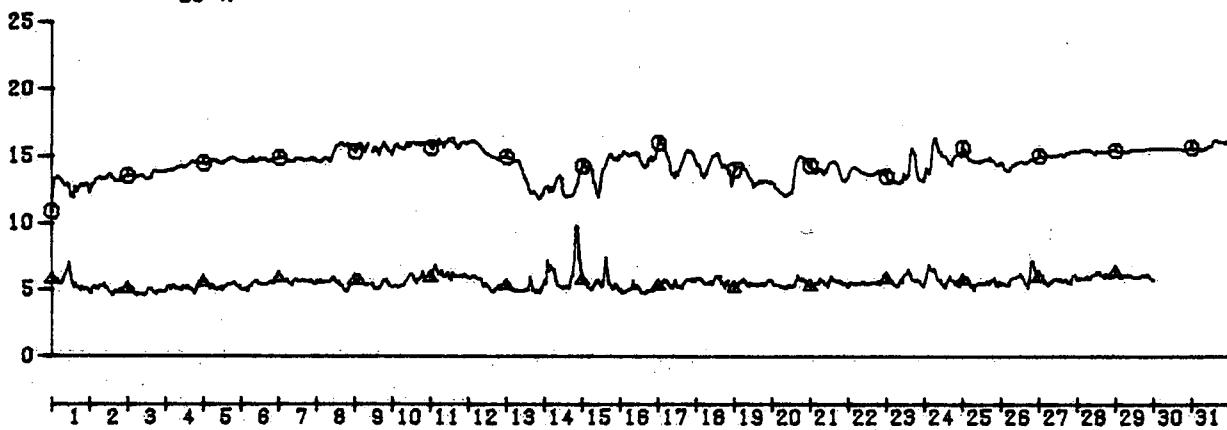


DEPTH: 25 M



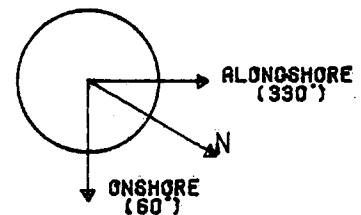
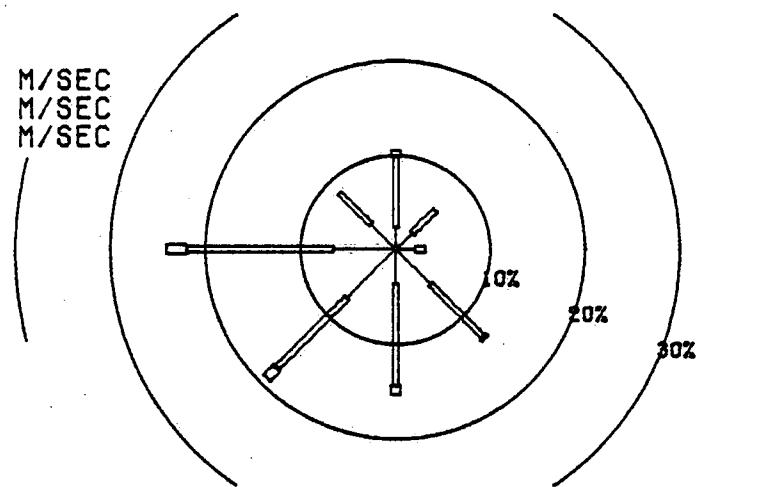
○ - 10 M
△ - 25 M

TEMPERATURE °C

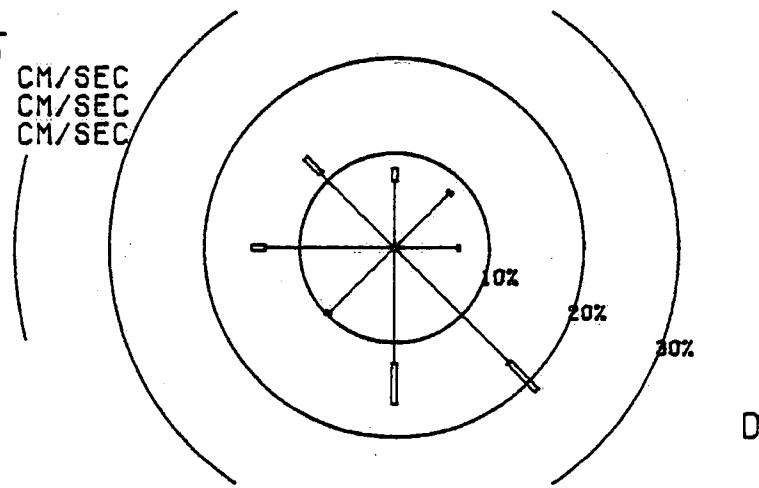


MOORING: 7 DATE: JULY 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

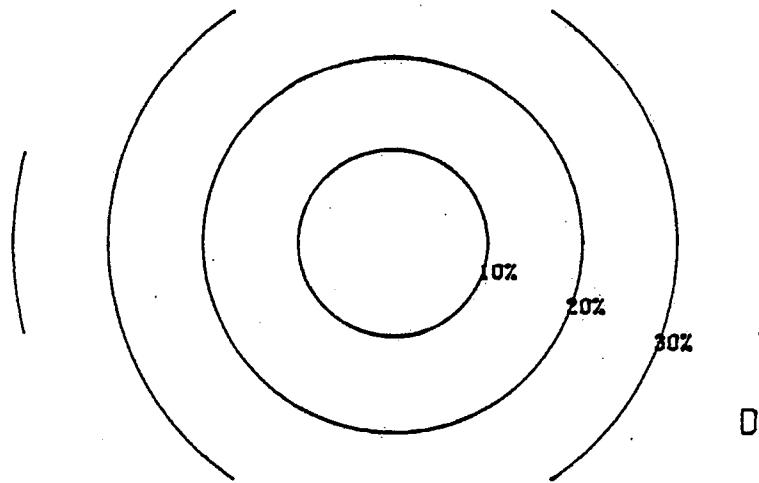


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



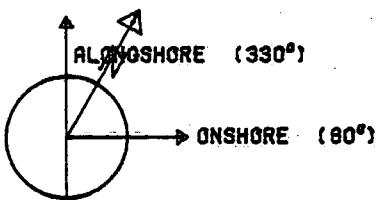
DEPTH: 55 M

* DIRECTION TOWARDS



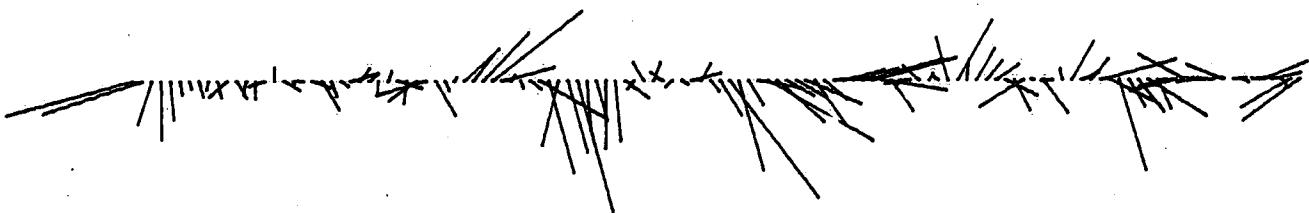
DEPTH: M

MOORING: 76-5C-07 DATE: JULY 1976



WINDSPEED²

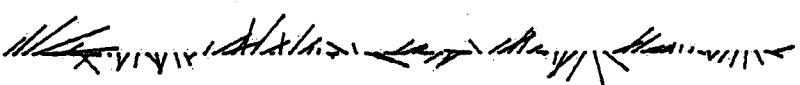
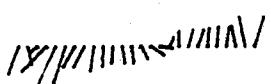
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

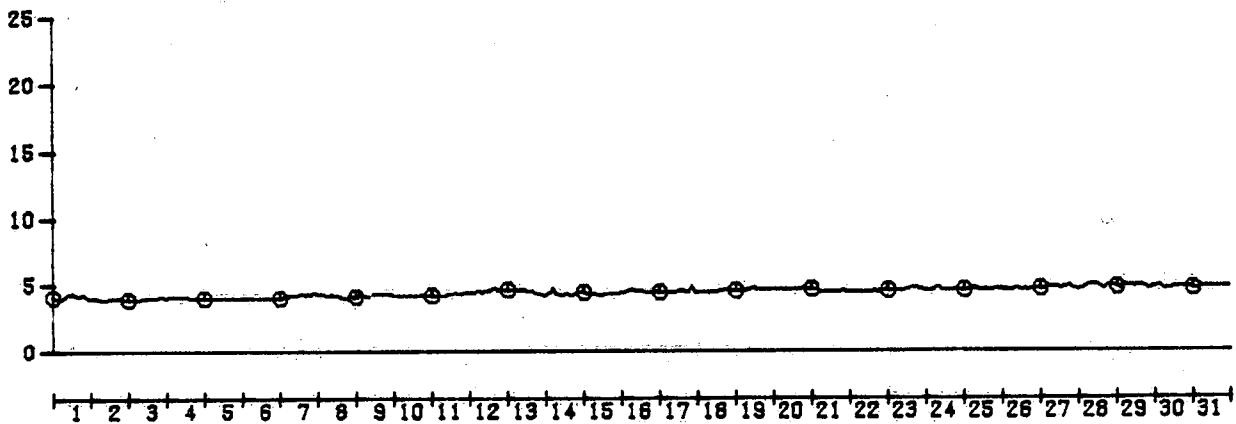
DEPTH: 55 M



DEPTH: M

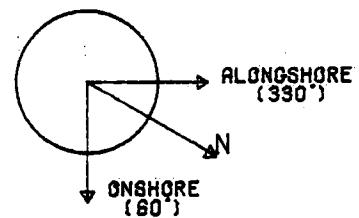
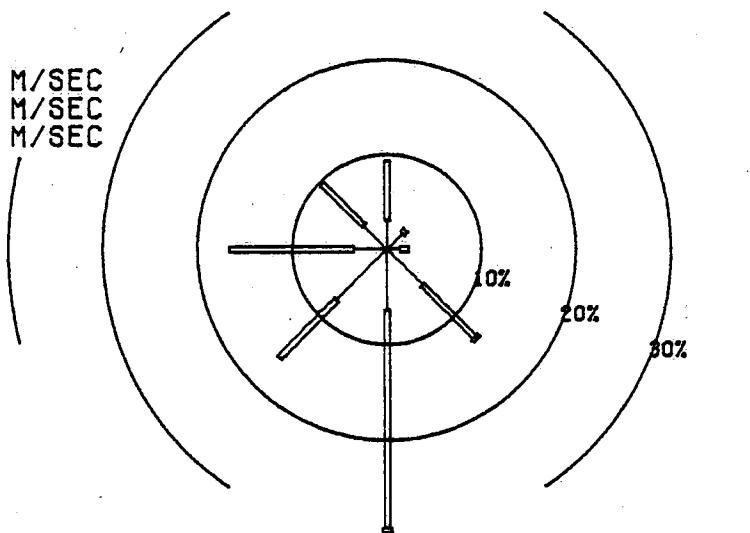
○ - 55 M
△ - M

TEMPERATURE °C

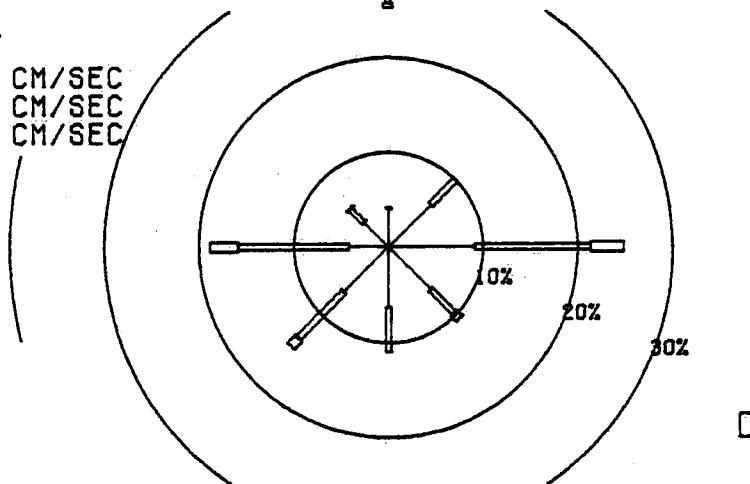


MOORING: 1 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

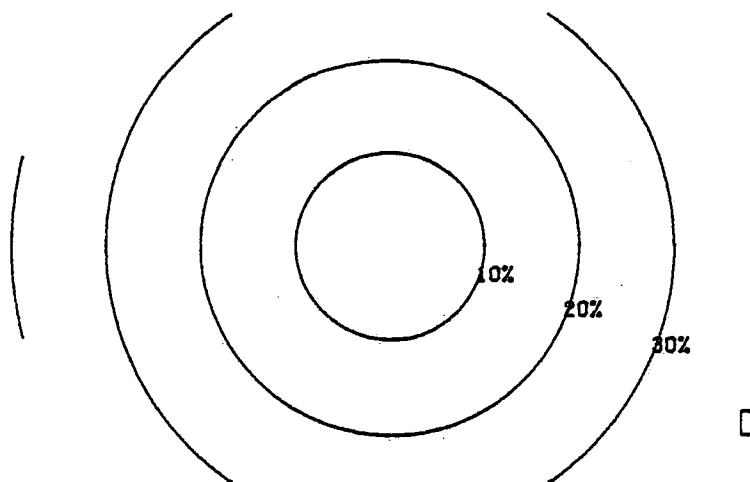
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



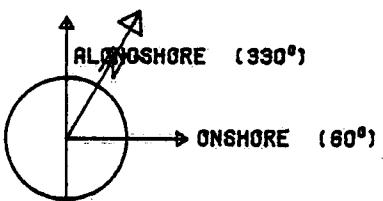
DEPTH: 10 M



DEPTH: 20 M

* DIRECTION TOWARDS

MOORING: 76-5C-01 DATE: AUG 1976



WINDSPEED²

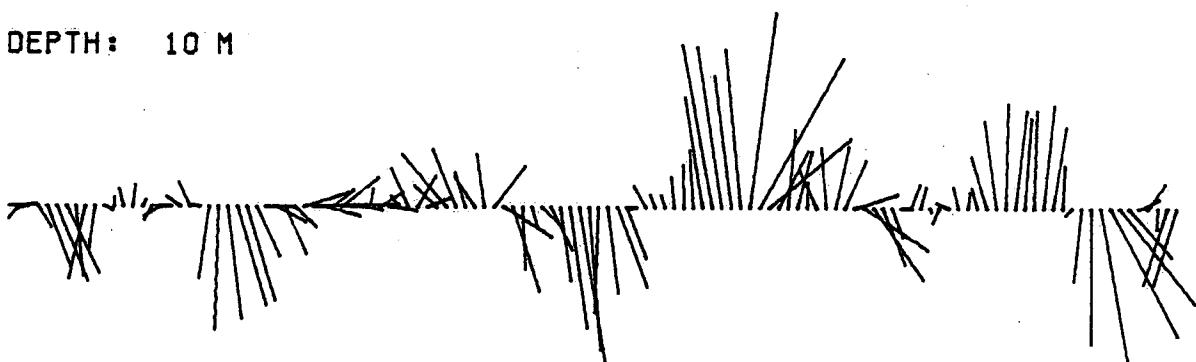
0 $\text{--} 40 \text{ M}^2/\text{SEC}^2$



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 $\text{--} 10 \text{ CM/SEC}$

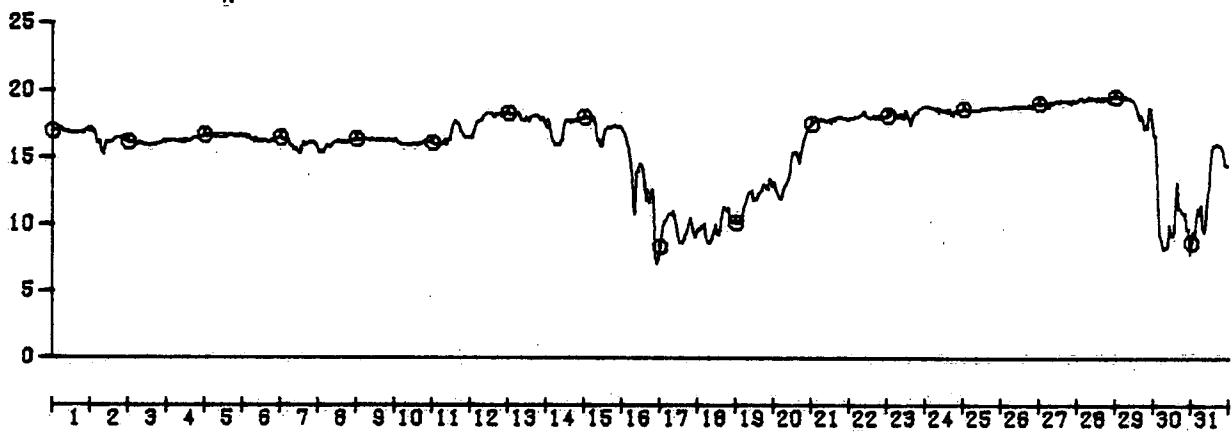
DEPTH: 10 M



DEPTH: M

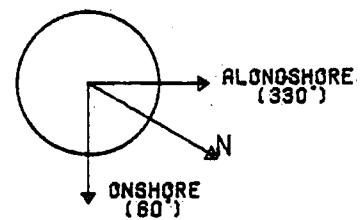
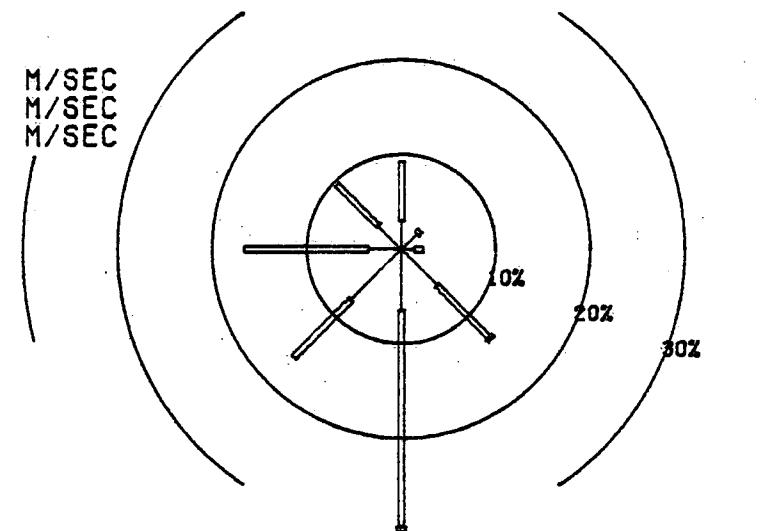
○ - 10 M
△ - M

TEMPERATURE °C

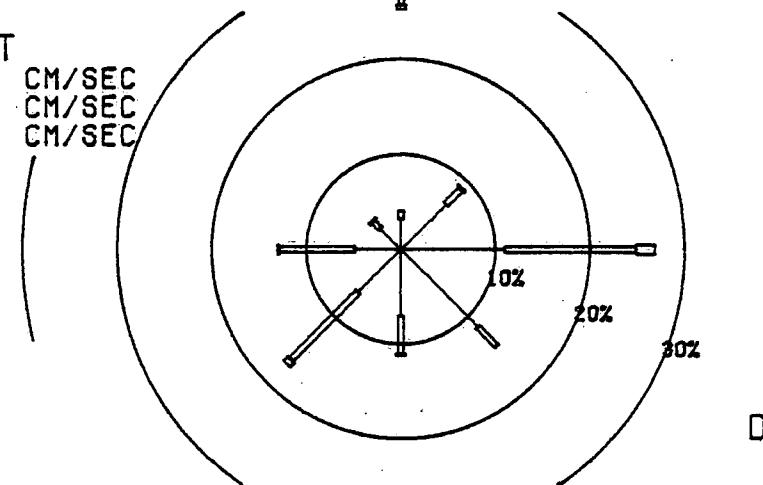


MOORING: 2 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

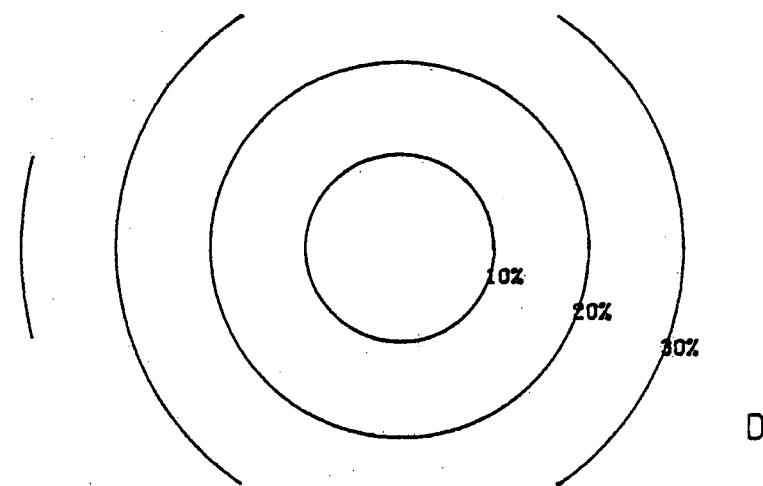
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



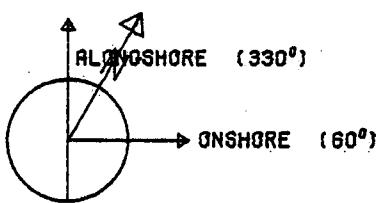
DEPTH: 10 M



DEPTH: 20 M

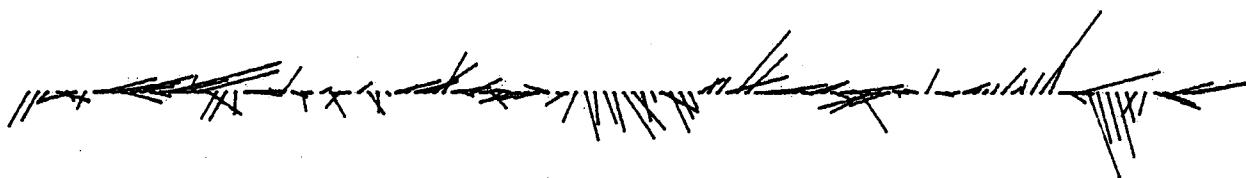
* DIRECTION TOWARDS

MOORING: 76-5C-02 DATE: AUG 1976



WINDSPEED²

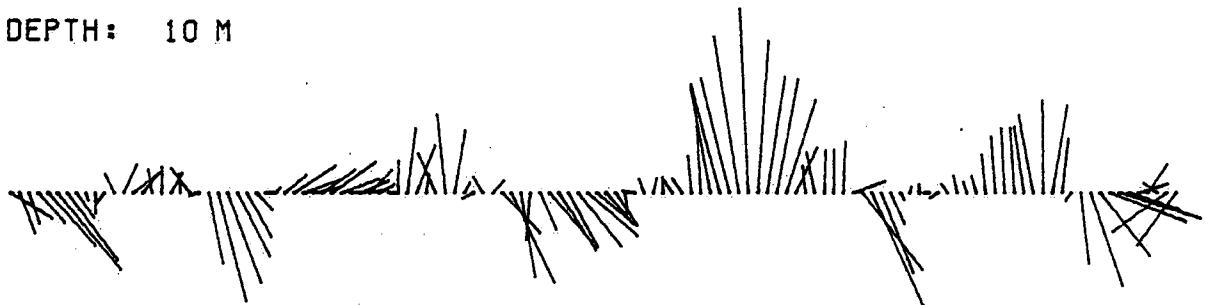
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

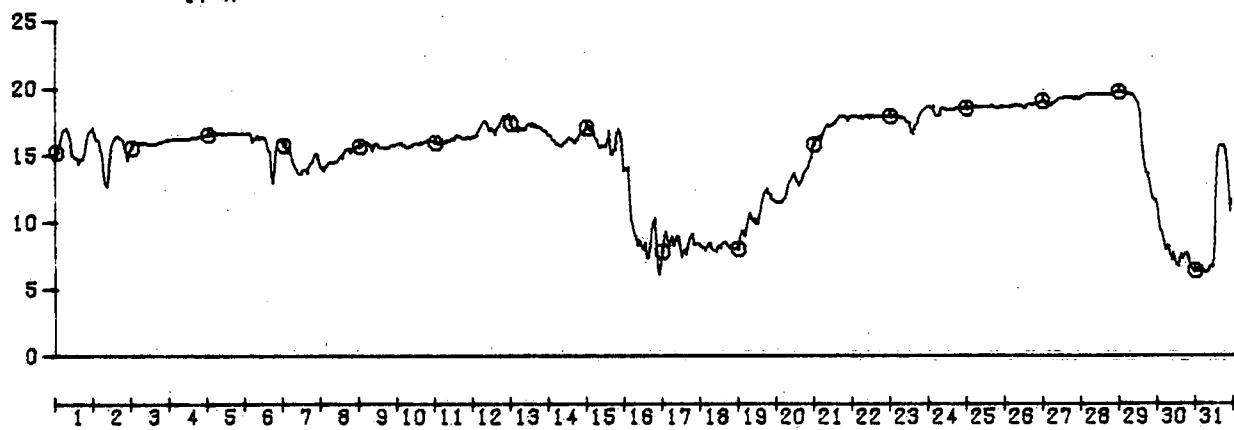
DEPTH: 10 M



DEPTH: 17 M

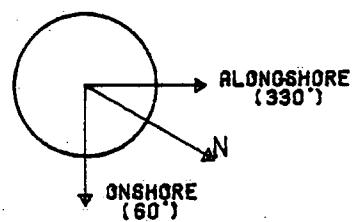
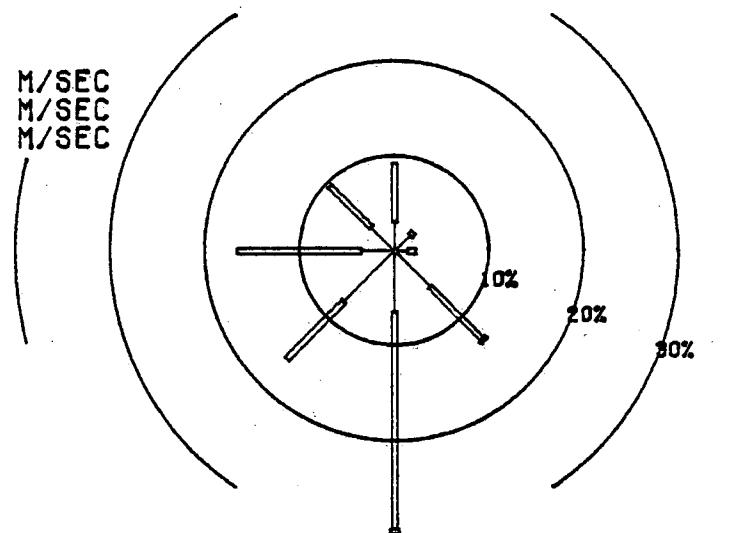
TEMPERATURE °C

○ - 10 M
△ - 17 M

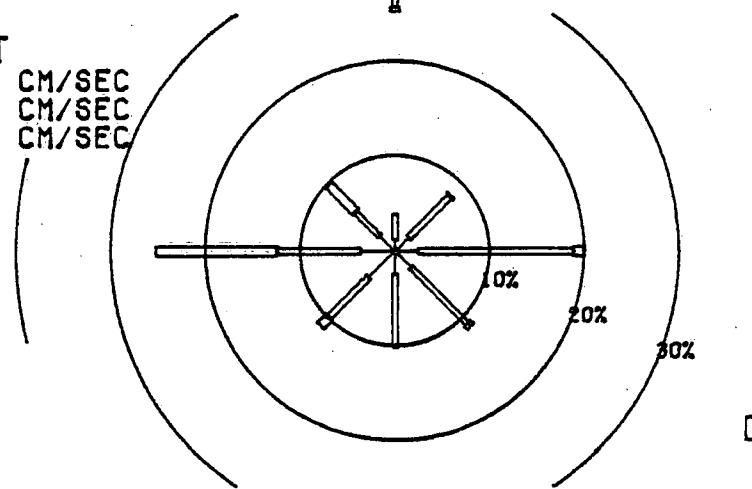


MOORING: 3 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

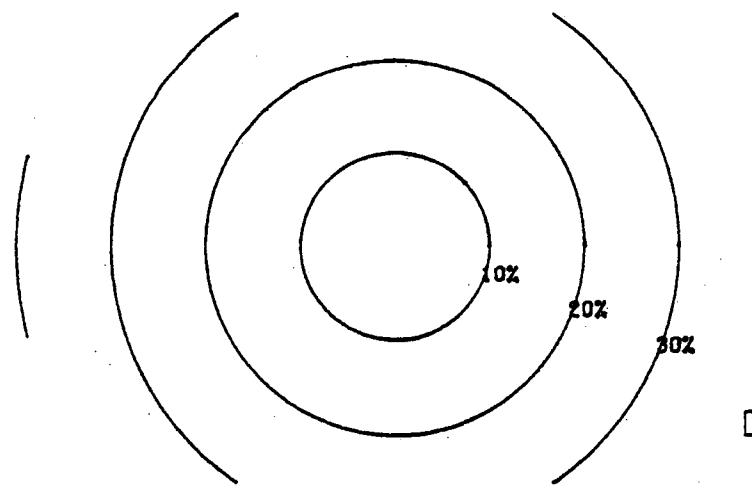
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



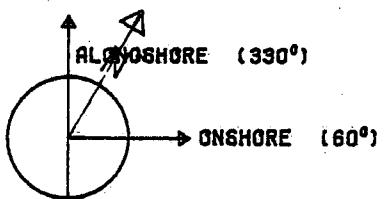
DEPTH: 10 M



DEPTH: M

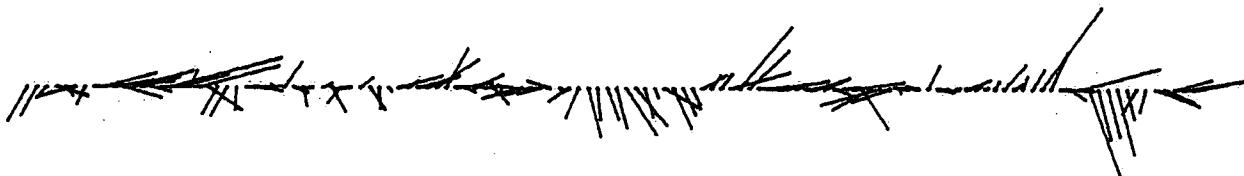
* DIRECTION TOWARDS

MOORING: 76-5C-03 DATE: AUG 1976



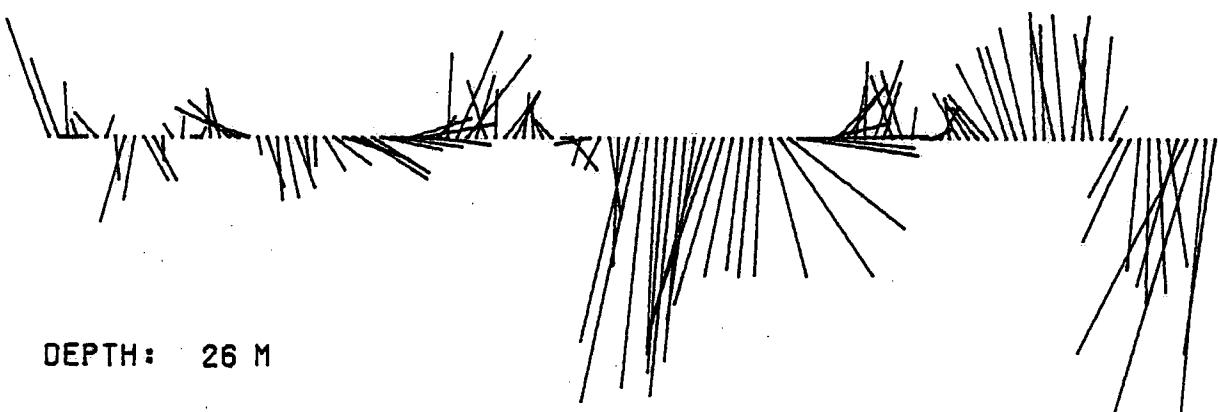
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

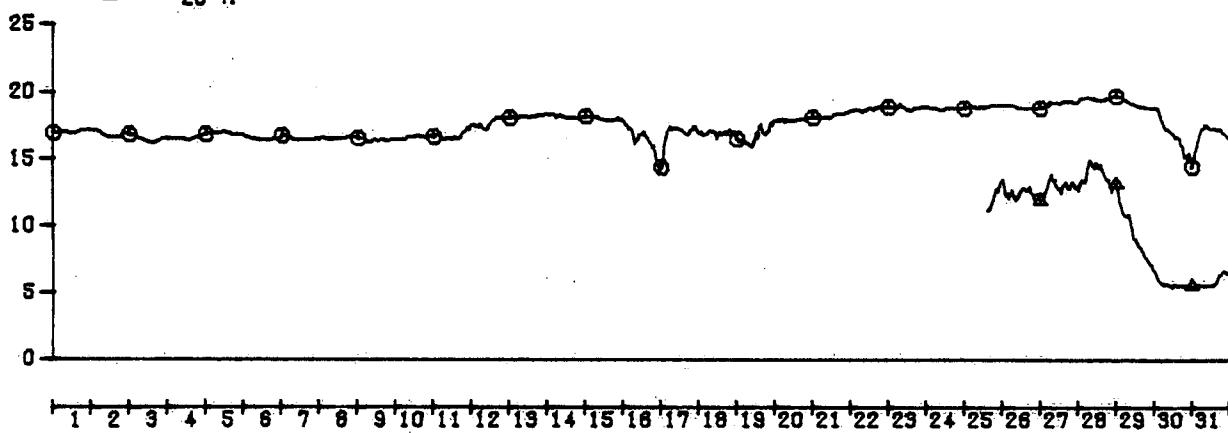


DEPTH: 26 M



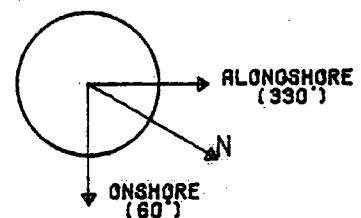
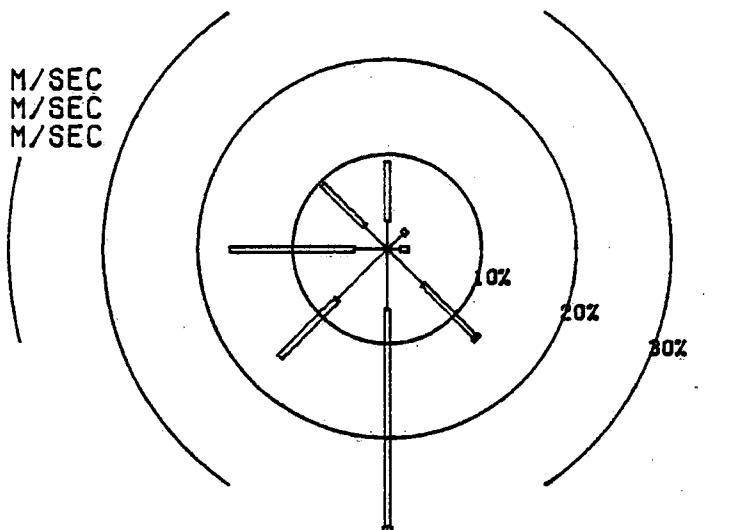
○ - 10 M
△ - 26 M

TEMPERATURE °C

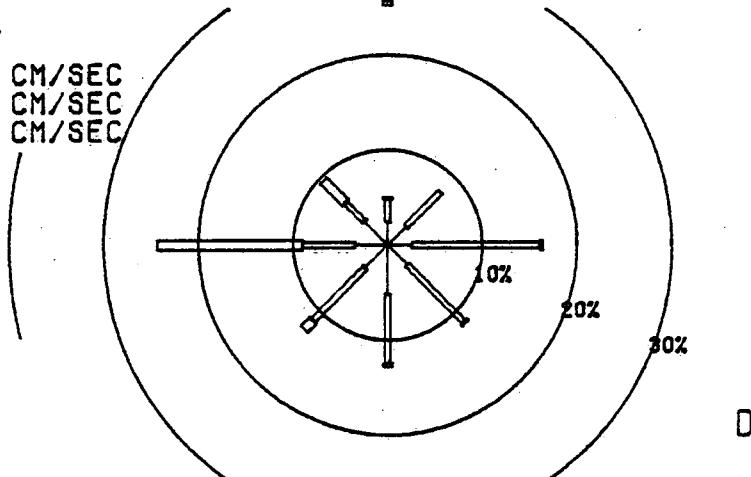


MOORING: 4 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

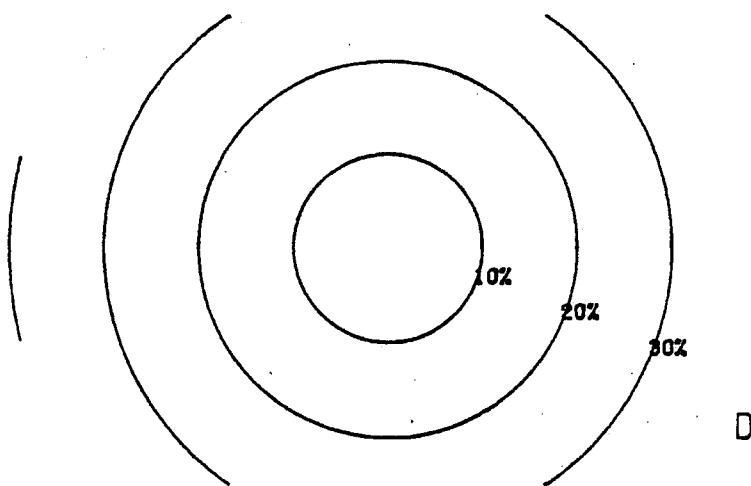
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



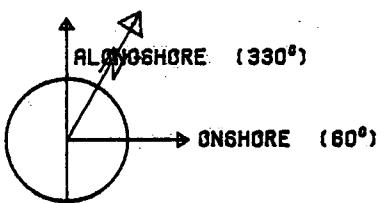
DEPTH: 10 M



DEPTH: M

* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: AUG 1976



WINDSPEED²

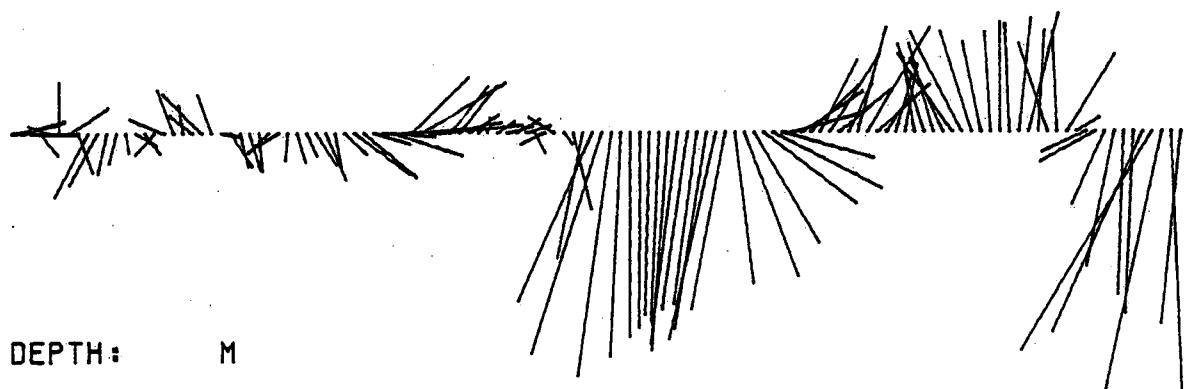
0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC

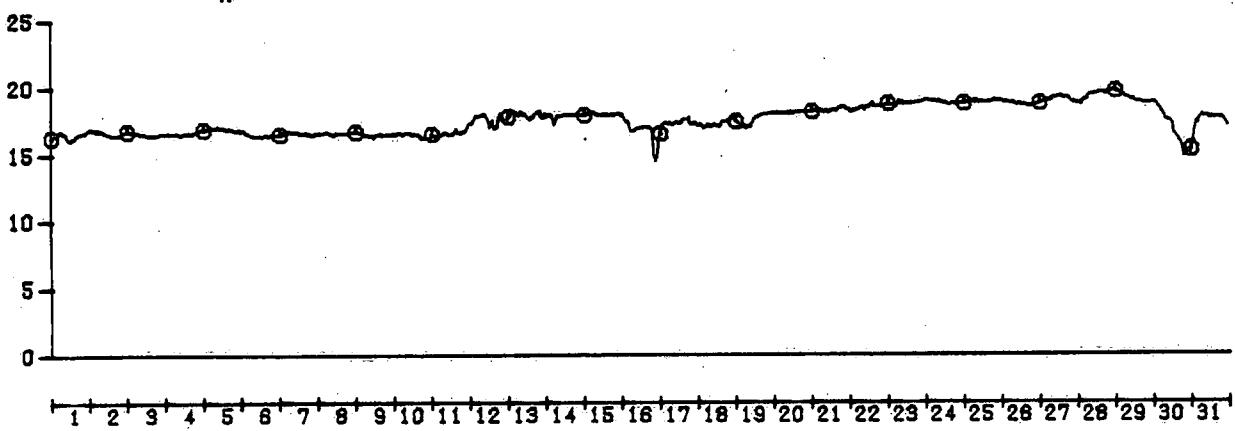
DEPTH: 10 M



DEPTH: M

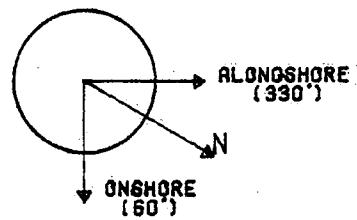
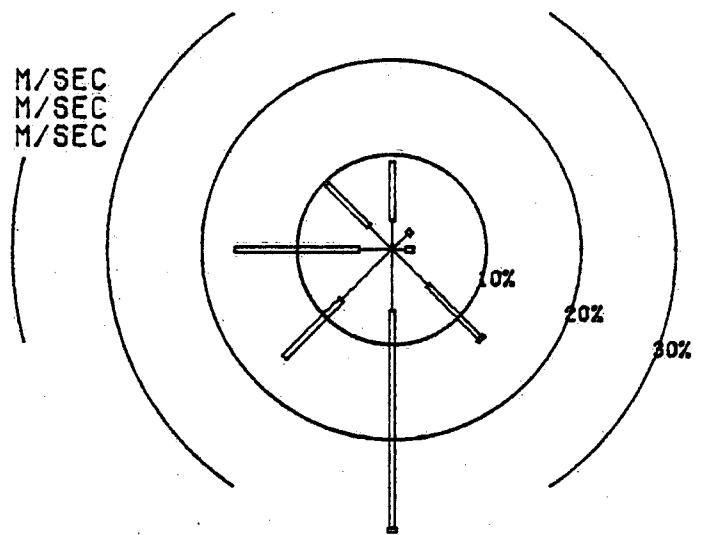
○ - 10 M
△ - M

TEMPERATURE °C

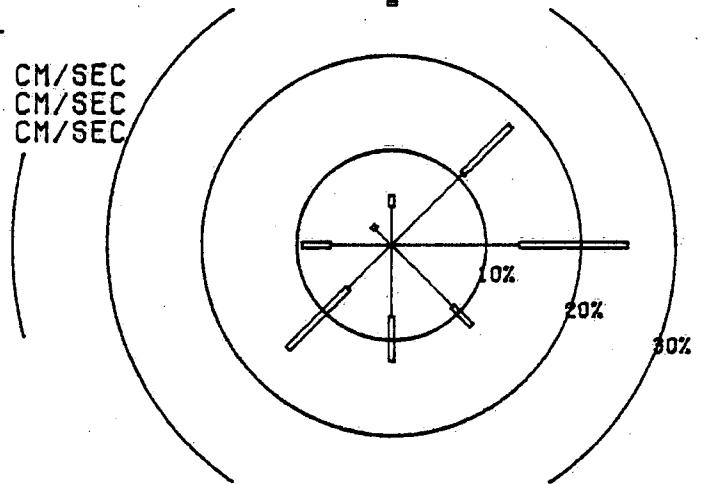


MOORING: 4 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

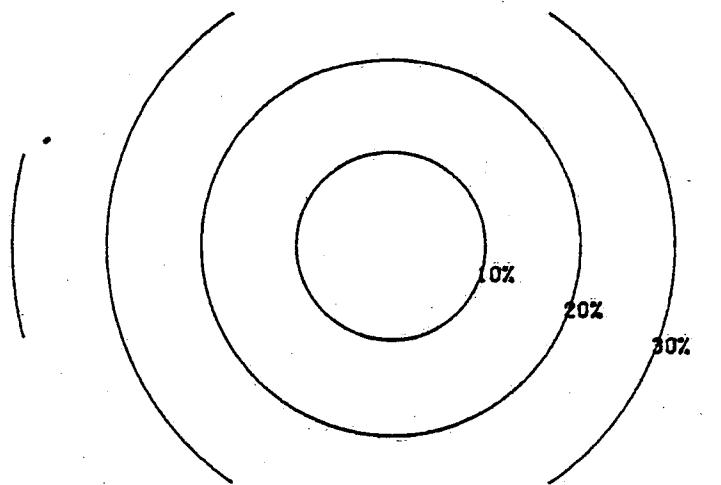
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



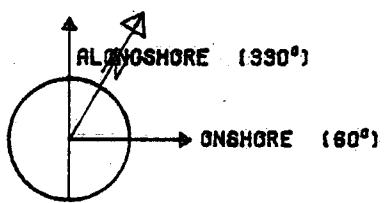
DEPTH: 31 M



DEPTH: M

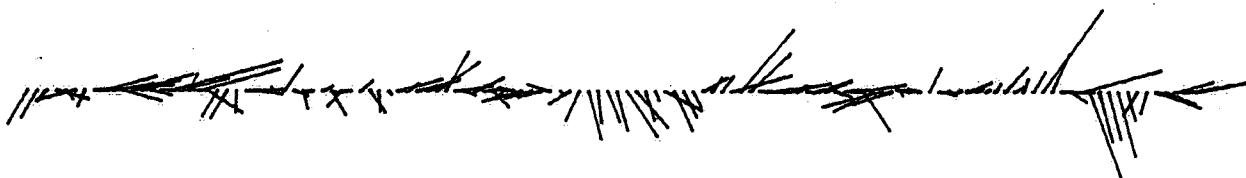
* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: AUG 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

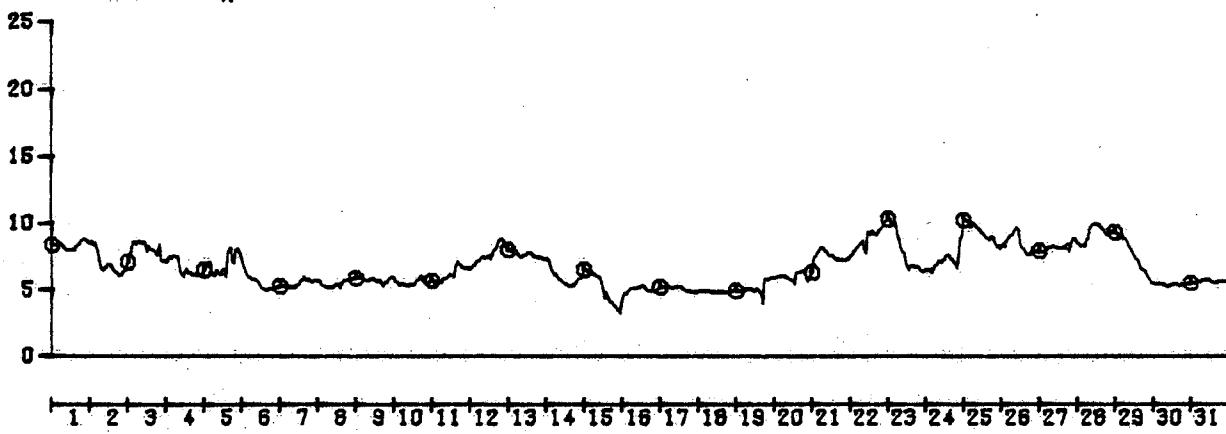
DEPTH: 31 M



DEPTH: M

◎ - 31 M
▲ - M

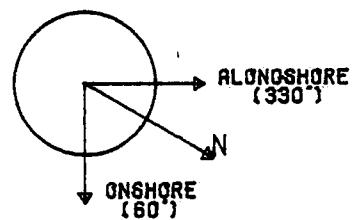
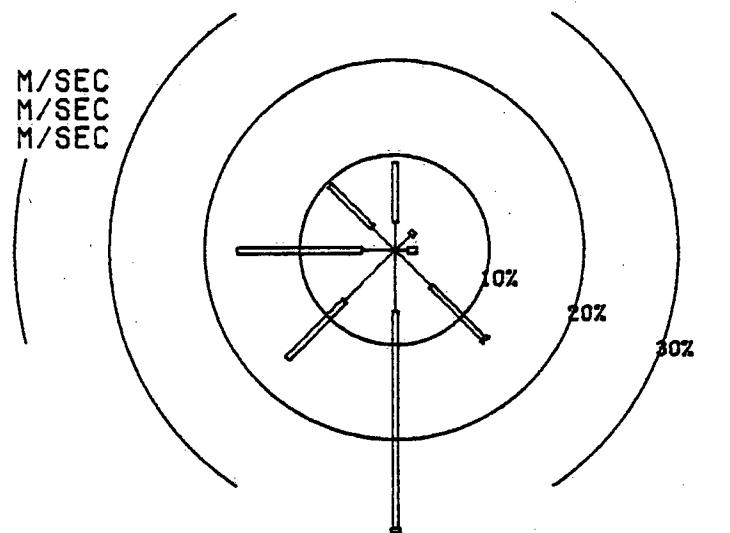
TEMPERATURE °C



MOORING: 5 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

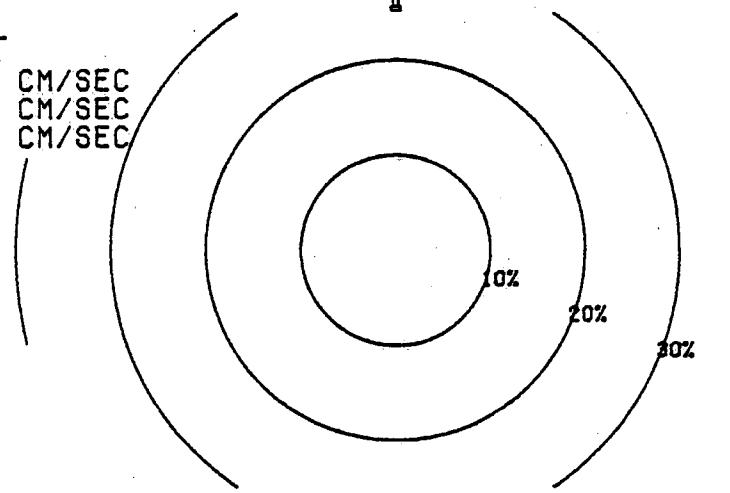
WIND

—	0-3	M/SEC
—	3-7	M/SEC
—	≥ 7	M/SEC



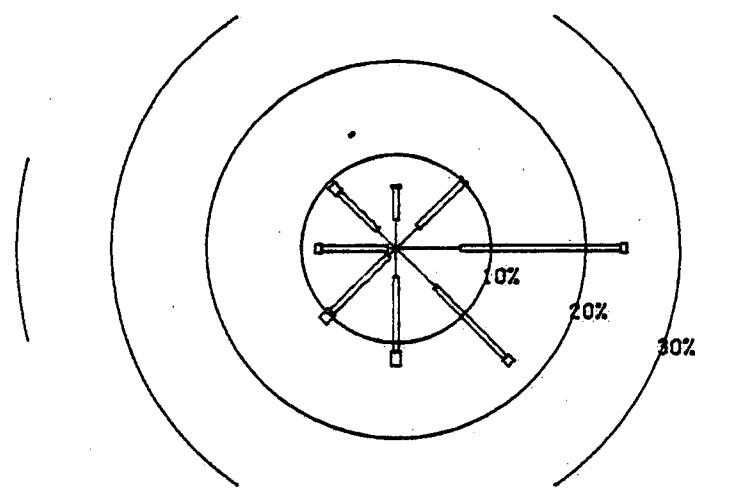
CURRENT

—	0-5	CM/SEC
—	5-15	CM/SEC
—	≥ 15	CM/SEC



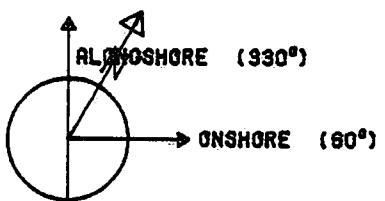
DEPTH: M

* DIRECTION TOWARDS



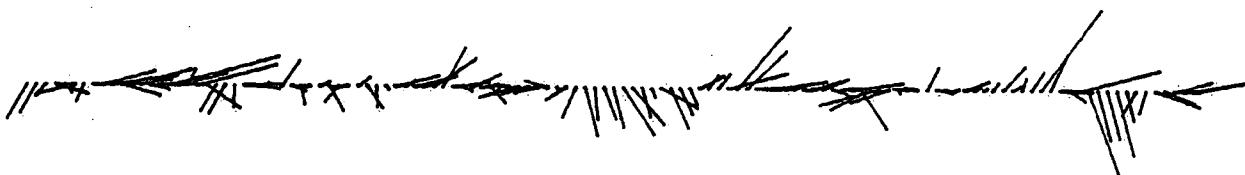
DEPTH: 25 M

MOORING: 76-5C-05 DATE: AUG 1976



WINDSPEED²

0 40 M²/SEC²

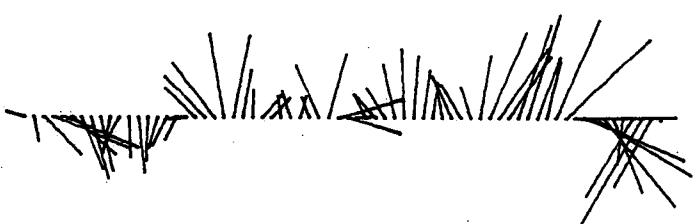


FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

0 10 CM/SEC

DEPTH: 25 M



○ - 10 M

▲ - 25 M

TEMPERATURE °C

25

20

15

10

5

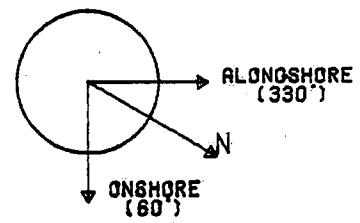
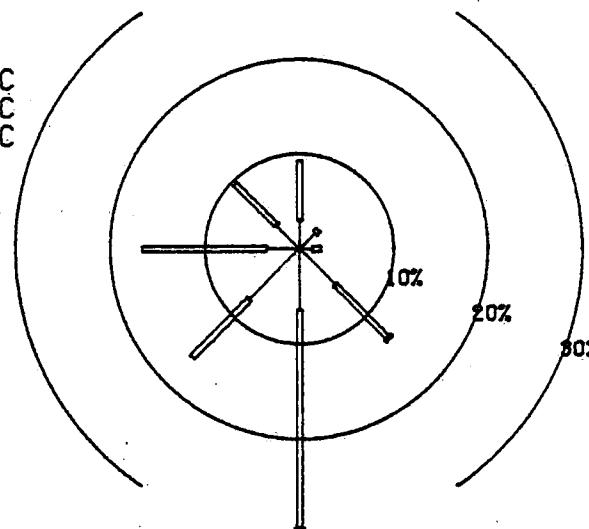
0

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 31

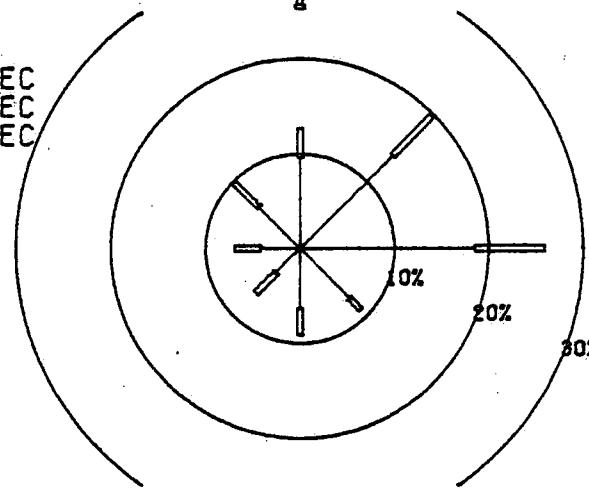
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

MOORING: 5 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

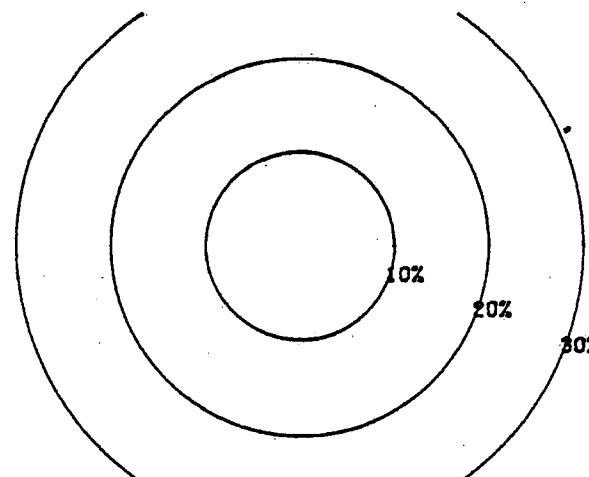


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



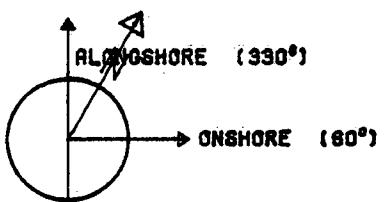
DEPTH: 36 M

* DIRECTION TOWARDS



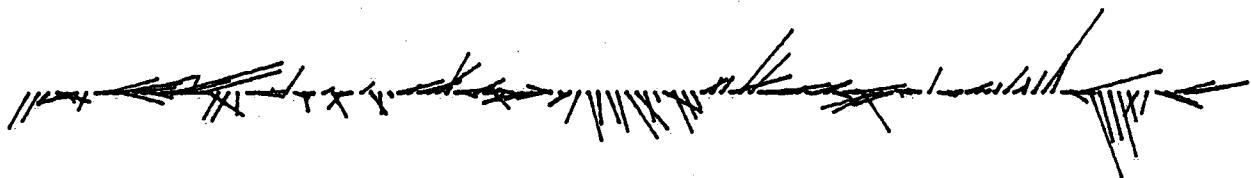
DEPTH: M

MOORING: 76-5C-05 DATE: AUG 1976



WINDSPEED²

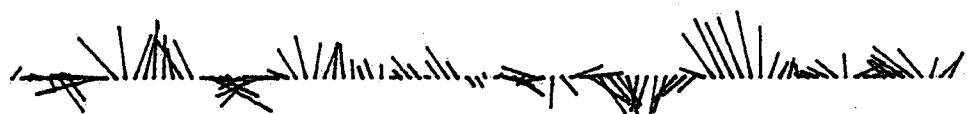
0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC

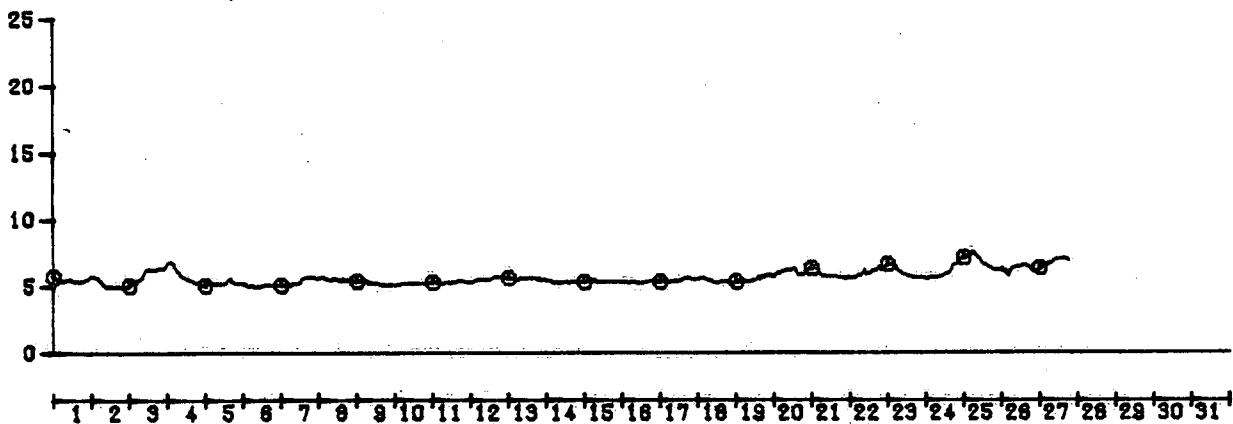
DEPTH: 36 M



DEPTH: M

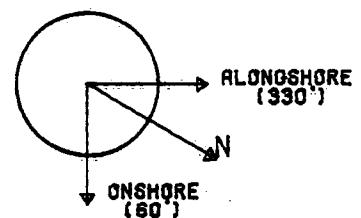
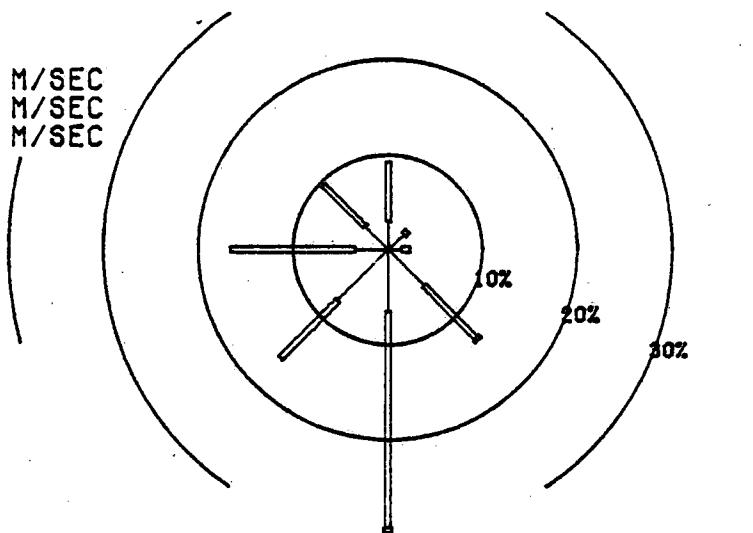
○ - 36 M
△ - M

TEMPERATURE °C

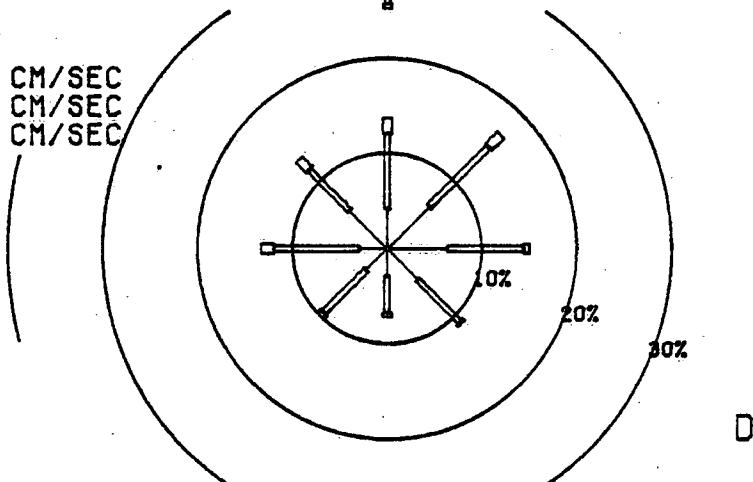


MOORING: 6 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

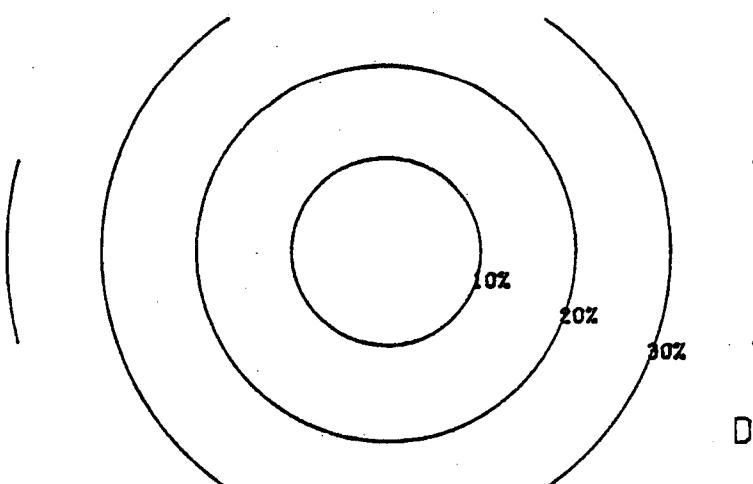
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



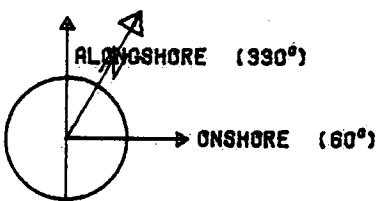
DEPTH: 10 M



DEPTH: M

* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: AUG 1976



WINDSPEED²

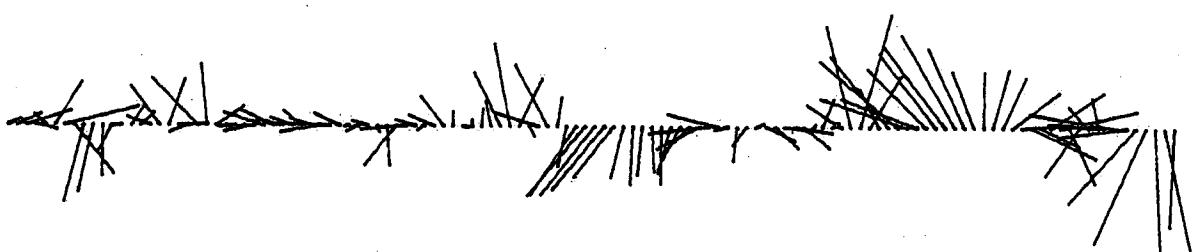
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

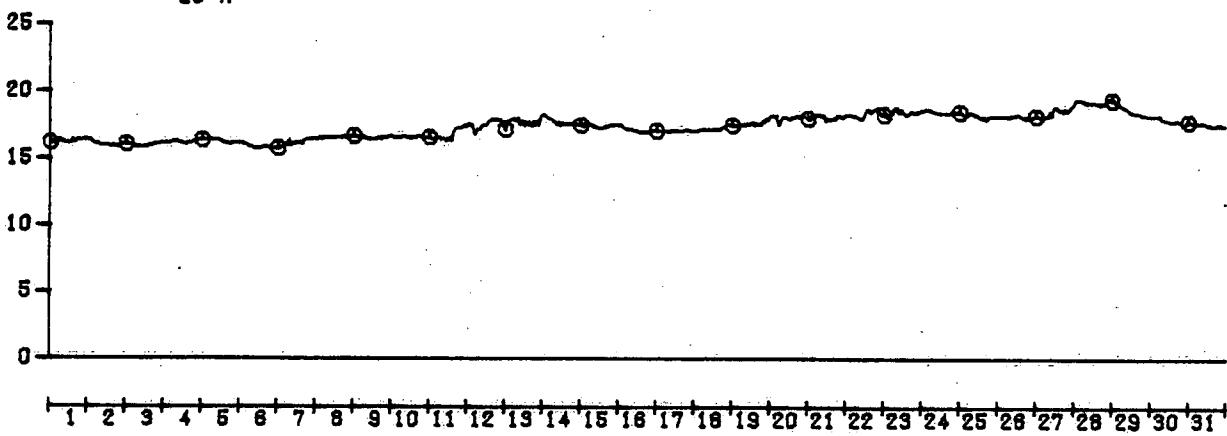
DEPTH: 10 M



DEPTH: 25 M

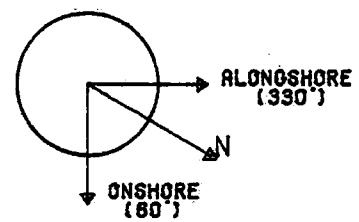
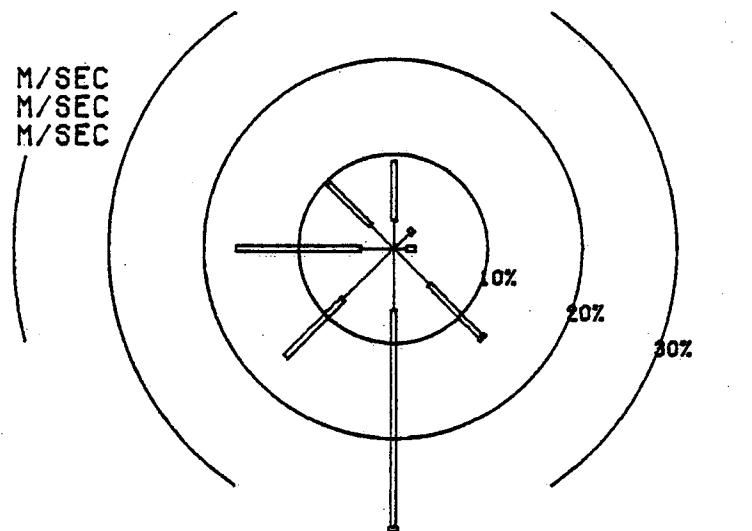
○ - 10 M
△ - 25 M

TEMPERATURE °C

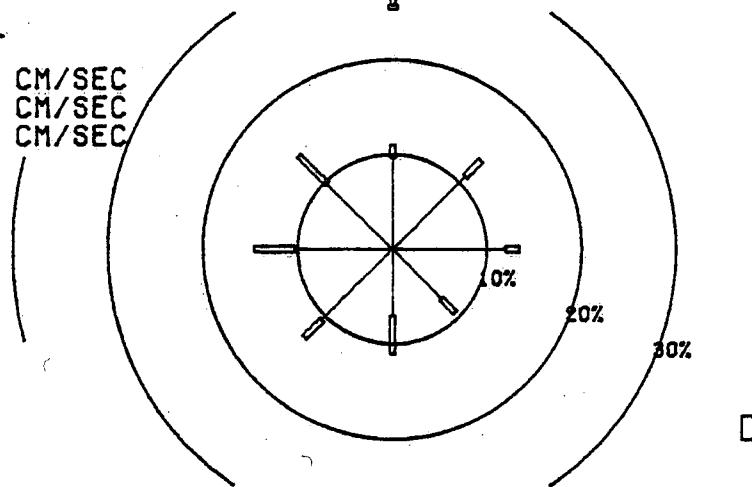


MOORING: 6 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

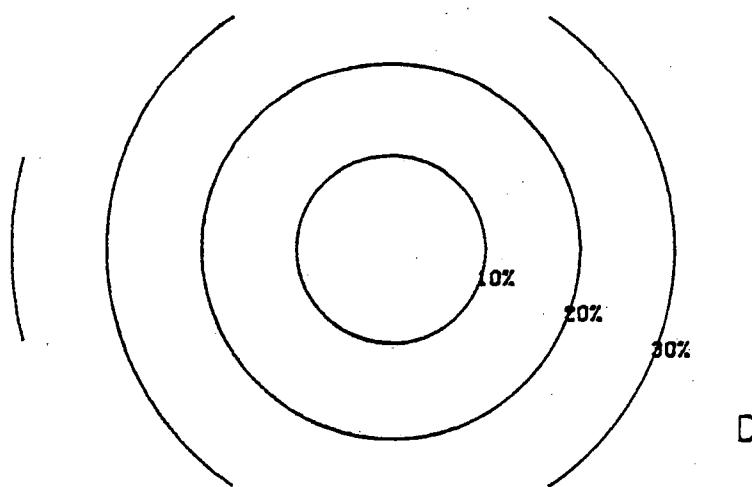
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



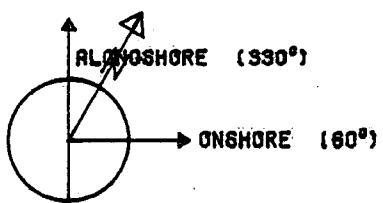
DEPTH: 43 M



DEPTH: M

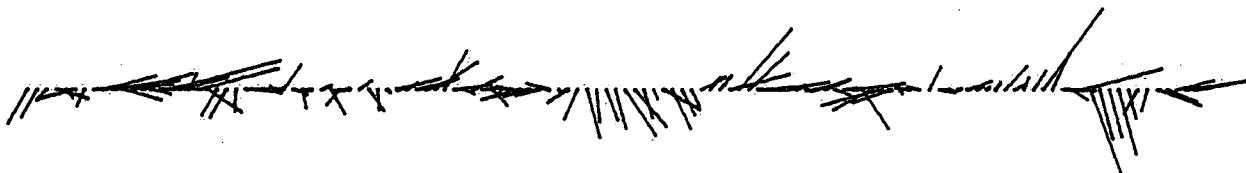
* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: AUG 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

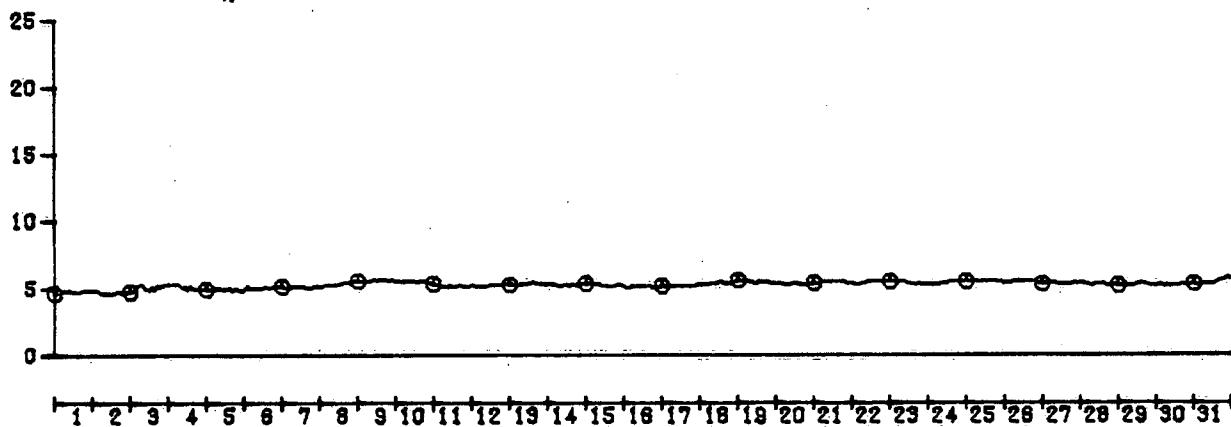
DEPTH: 43 M



DEPTH: M

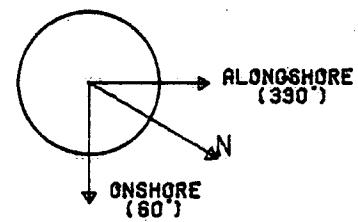
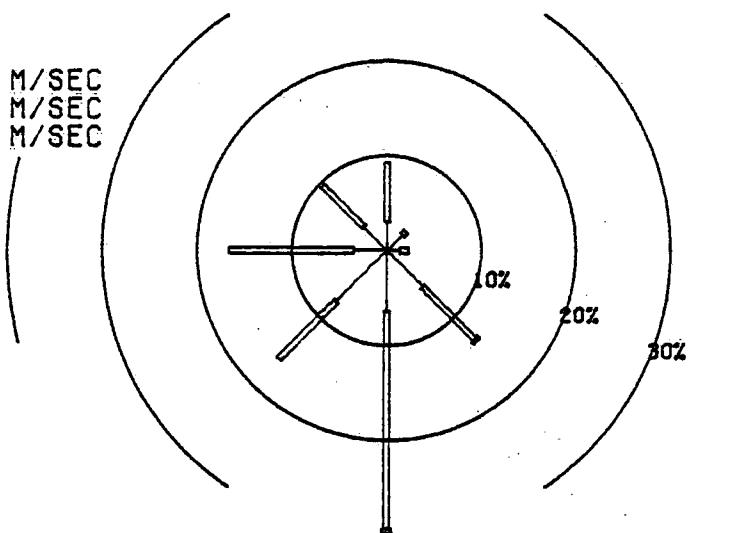
○ - 43 M
△ - M

TEMPERATURE °C

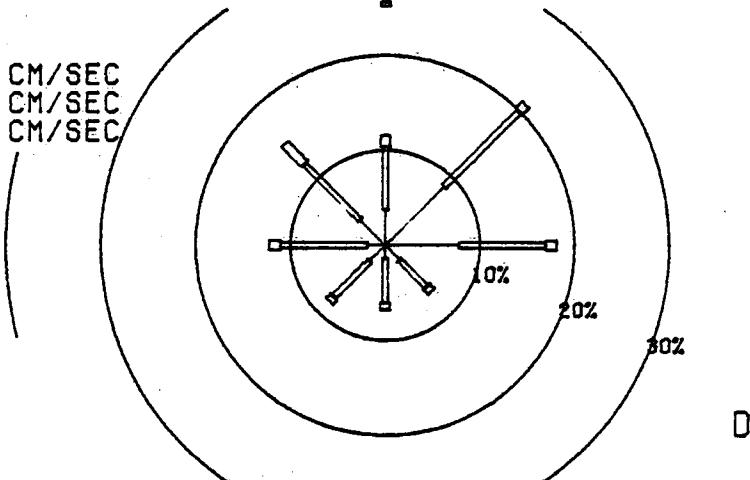


MOORING: 7 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

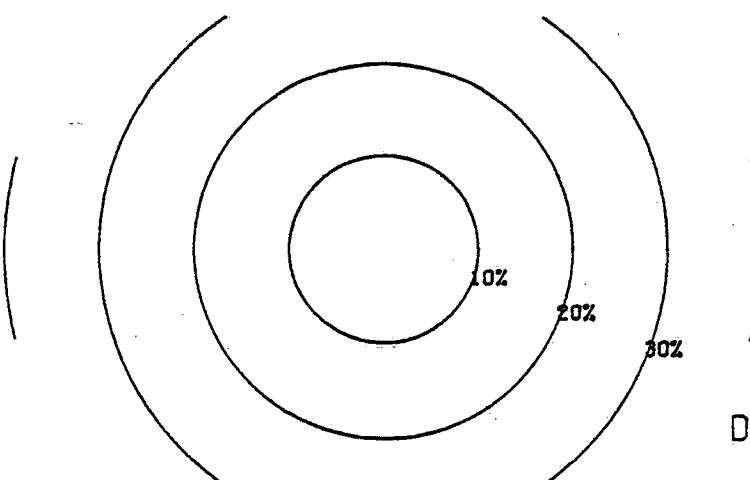


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



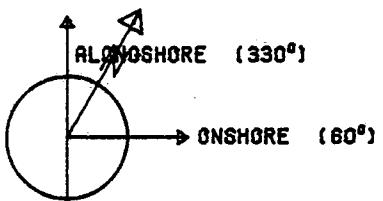
DEPTH: 10 M

* DIRECTION TOWARDS



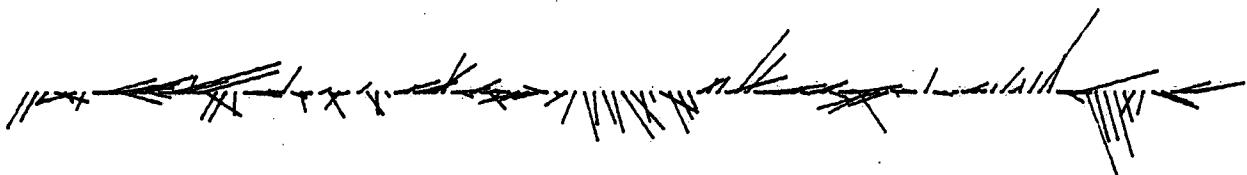
DEPTH: 20 M

MOORING: 76-5C-07 DATE: AUG 1976



WINDSPEED²

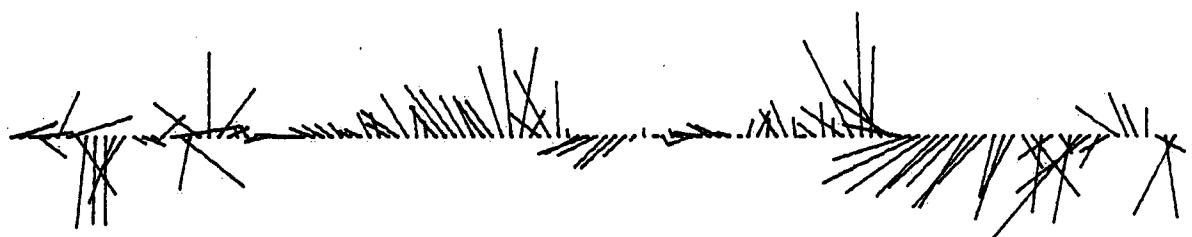
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

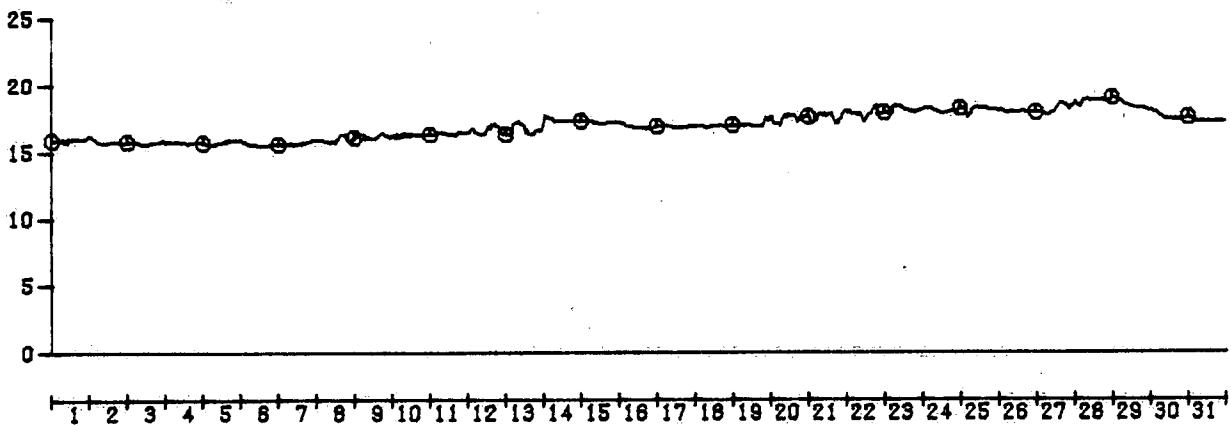
DEPTH: 10 M



DEPTH: M

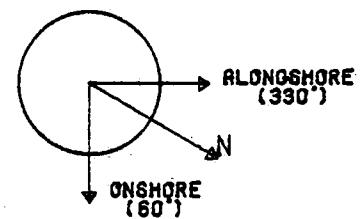
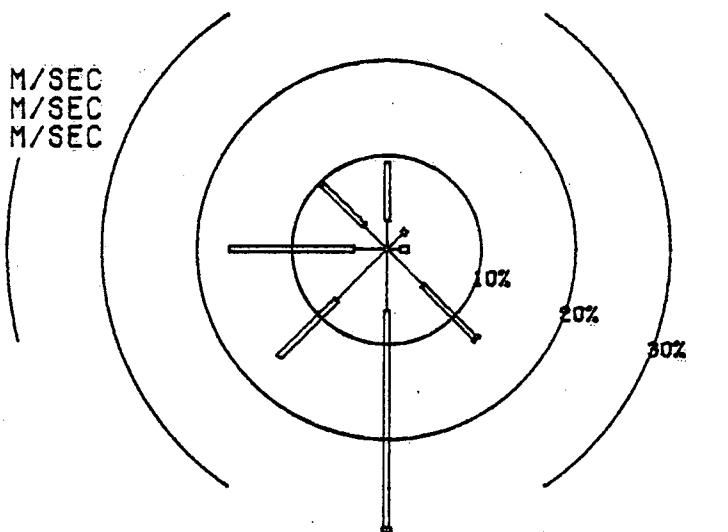
○ - 10 M
△ - M

TEMPERATURE °C

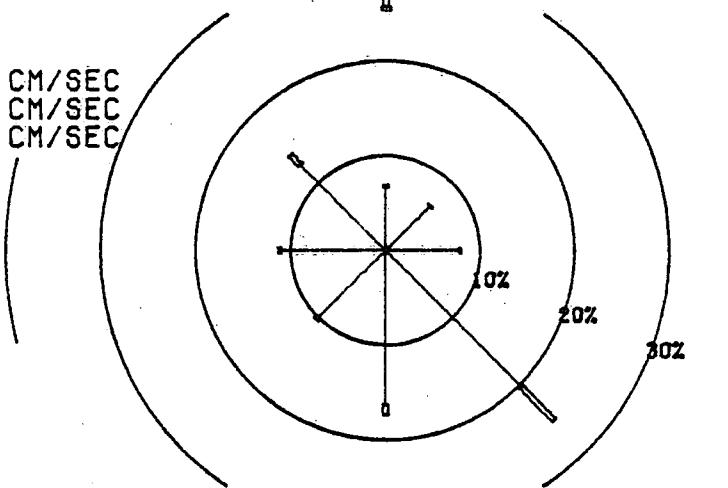


MOORING: 7 DATE: AUG 1976
MONTHLY SUMMARY: WIND AND CURRENT*

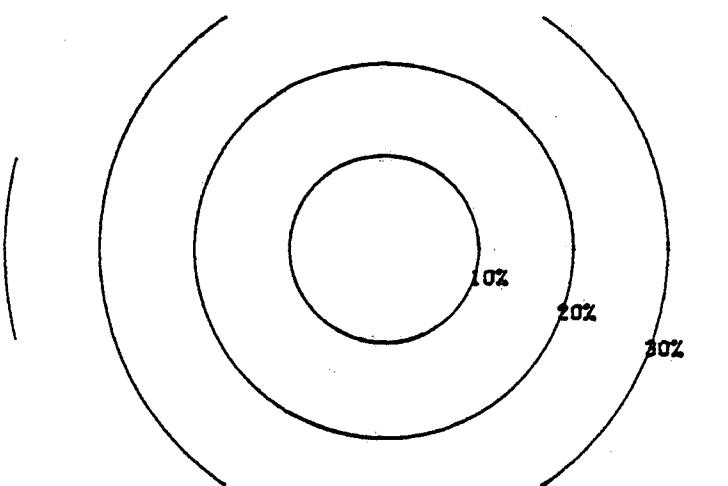
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



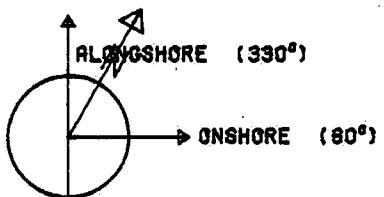
DEPTH: 55 M



DEPTH: M

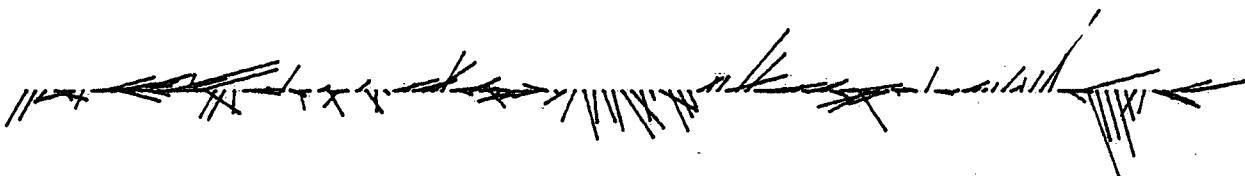
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: AUG 1976



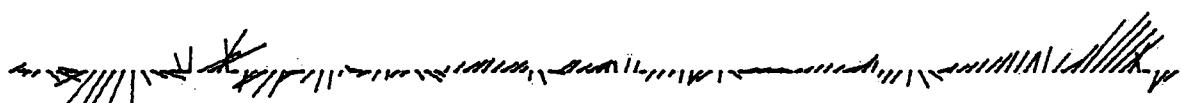
WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

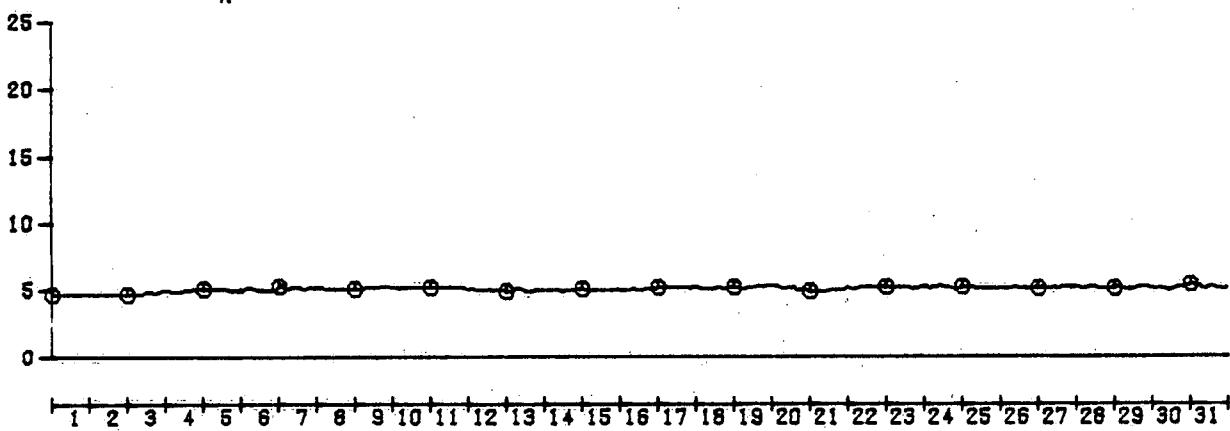
DEPTH: 55 M



DEPTH: M

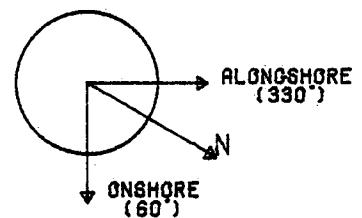
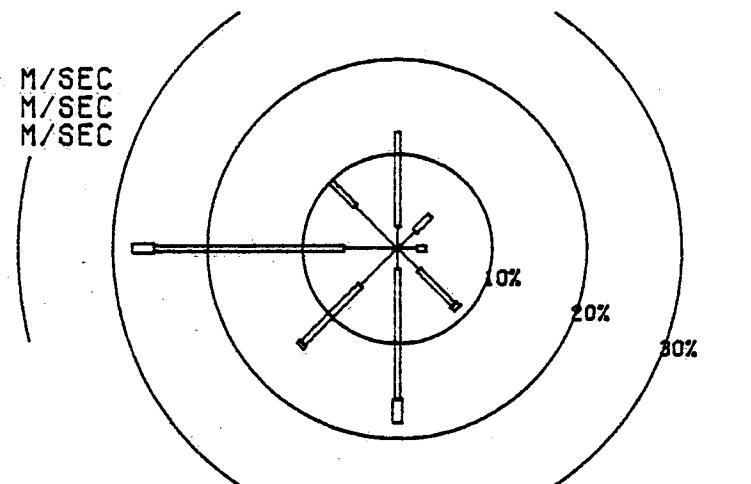
○ - 55 M
△ - M

TEMPERATURE °C

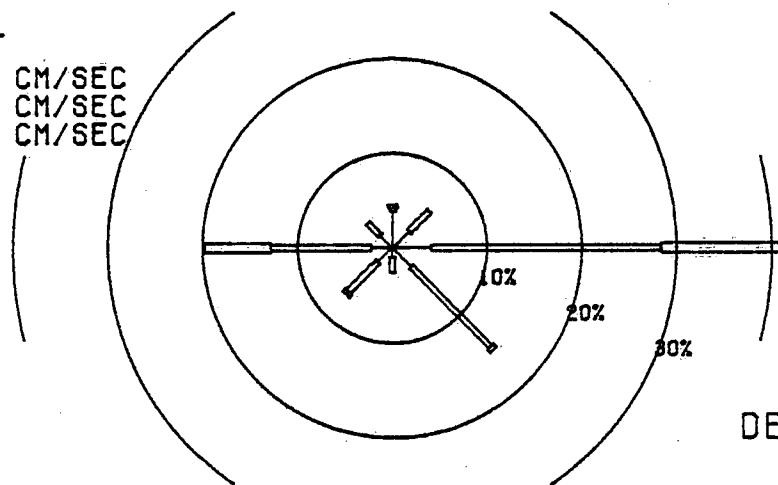


MOORING: 1 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

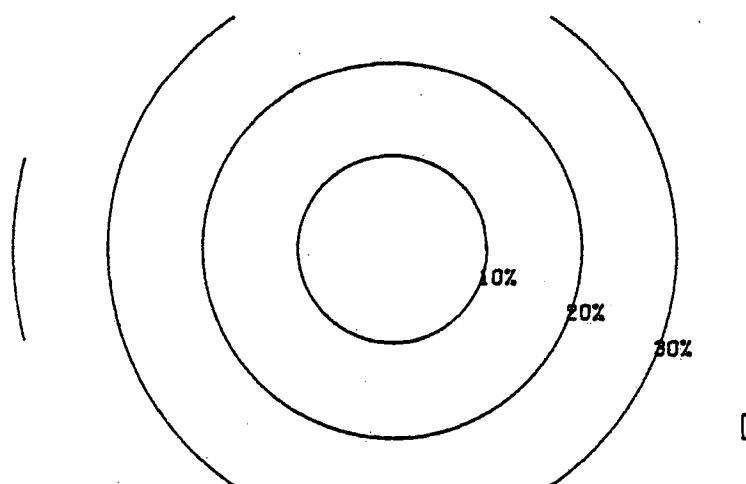
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



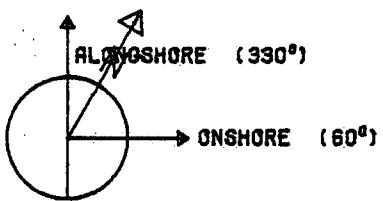
DEPTH: 10 M



DEPTH: M

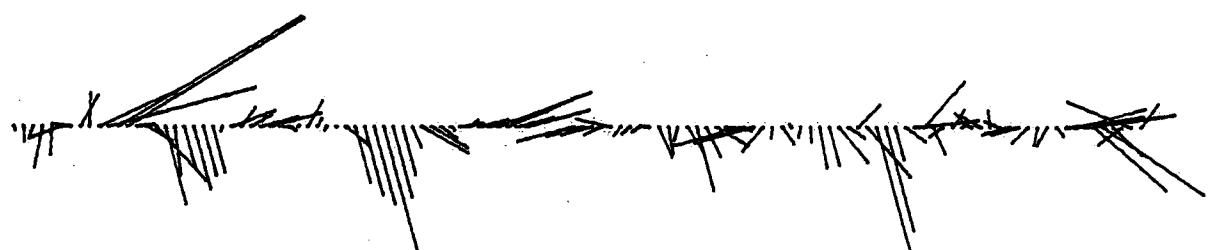
* DIRECTION TOWARDS

MOORING: 76-5C-01 DATE: SEPT 1976



WINDSPEED²

0 40 M²/SEC²

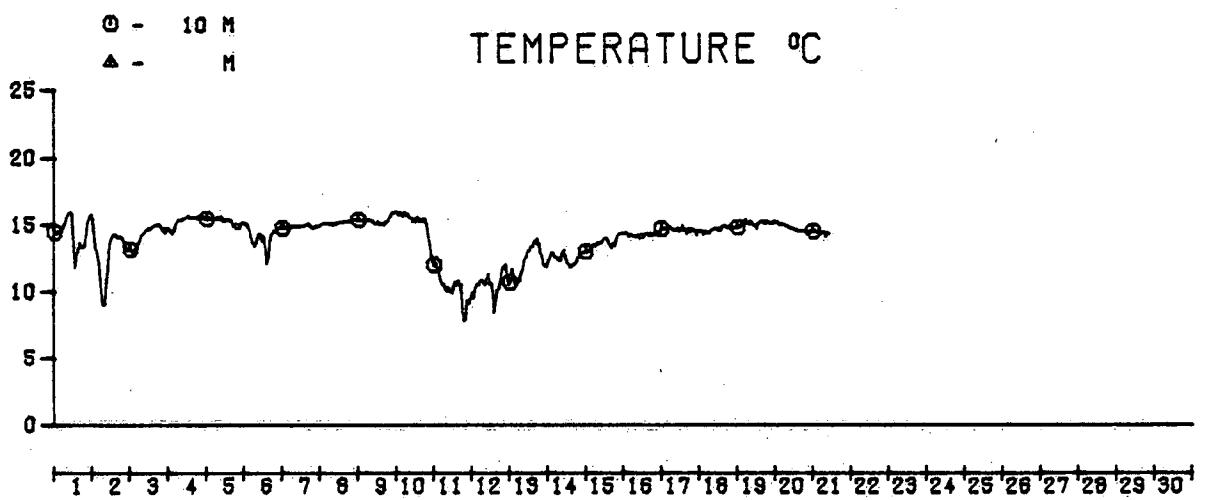


FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

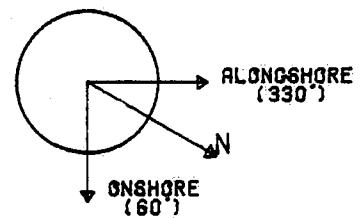
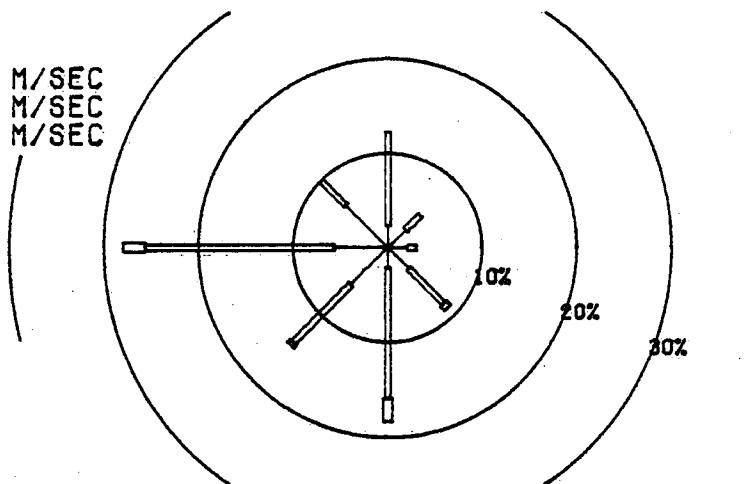
DEPTH: 10 M

DEPTH: M

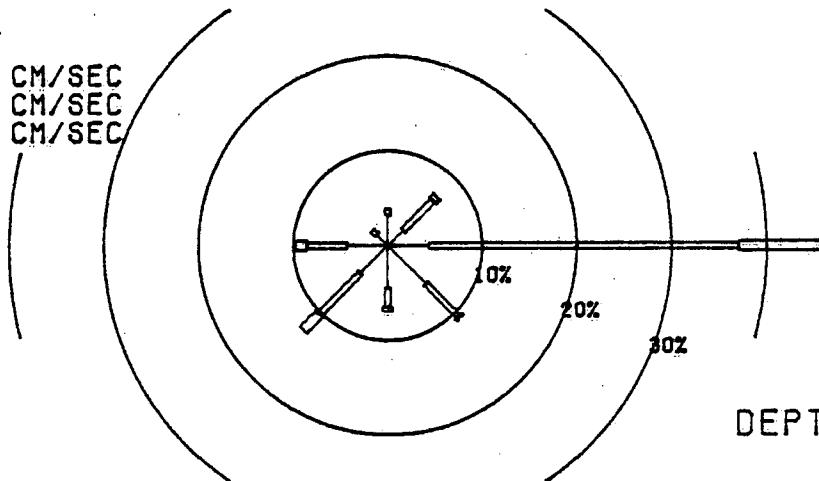


MOORING: 2 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

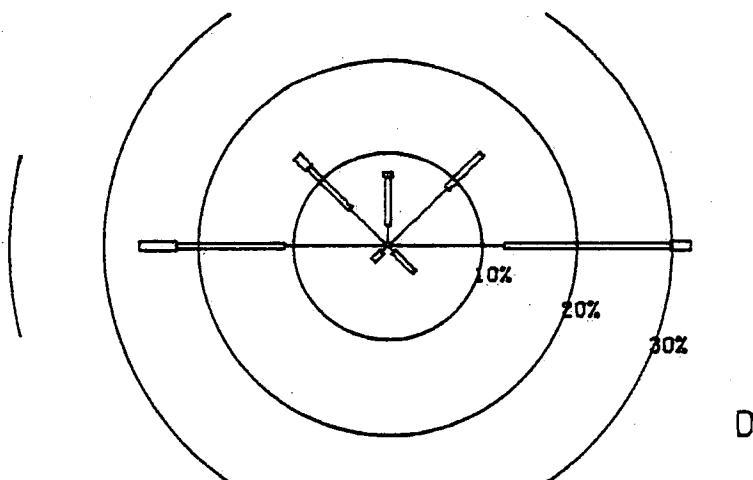
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



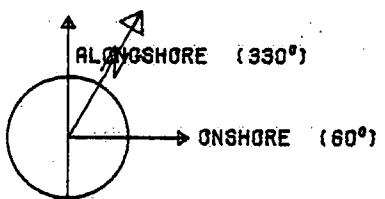
DEPTH: 10 M



DEPTH: 17 M

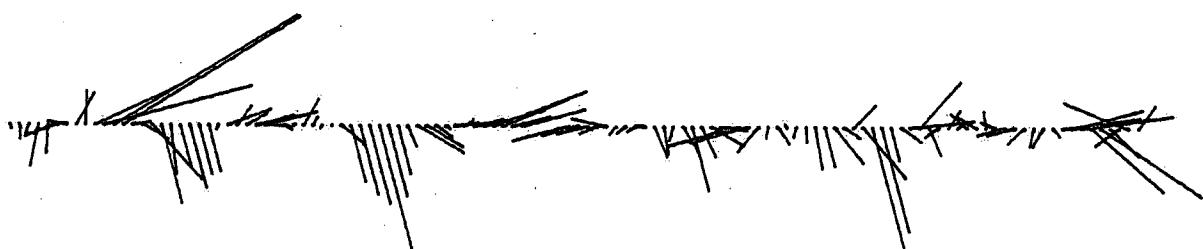
* DIRECTION TOWARDS

MOORING: 76-5C-02 DATE: SEPT 1976



WINDSPEED²

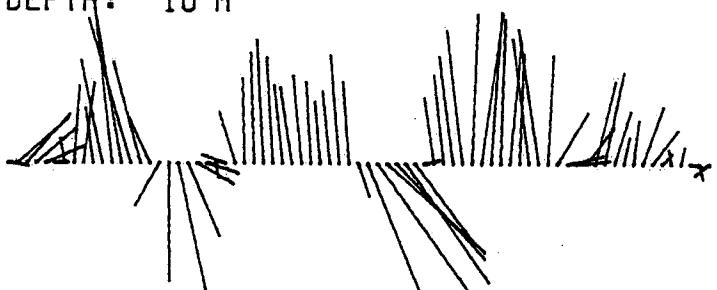
0 40 M²/SEC²



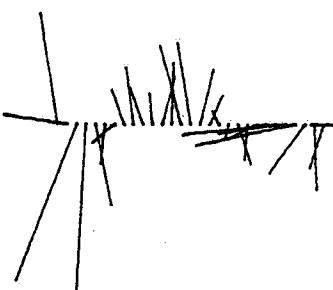
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

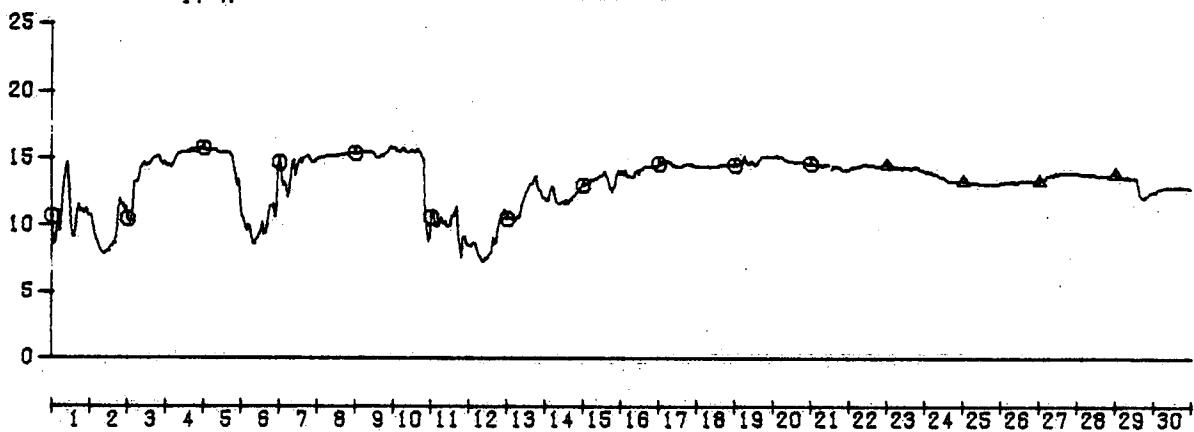


DEPTH: 17 M



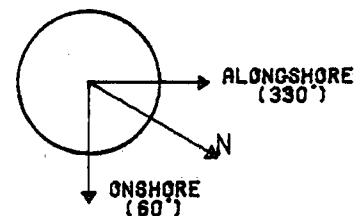
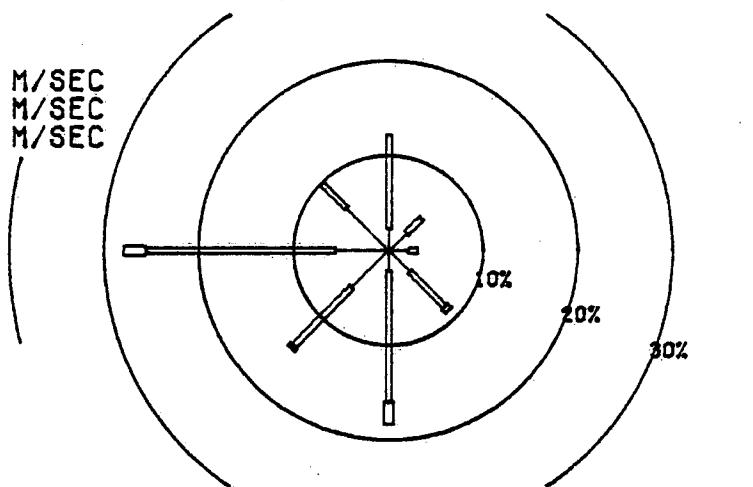
○ - 10 M
△ - 17 M

TEMPERATURE °C

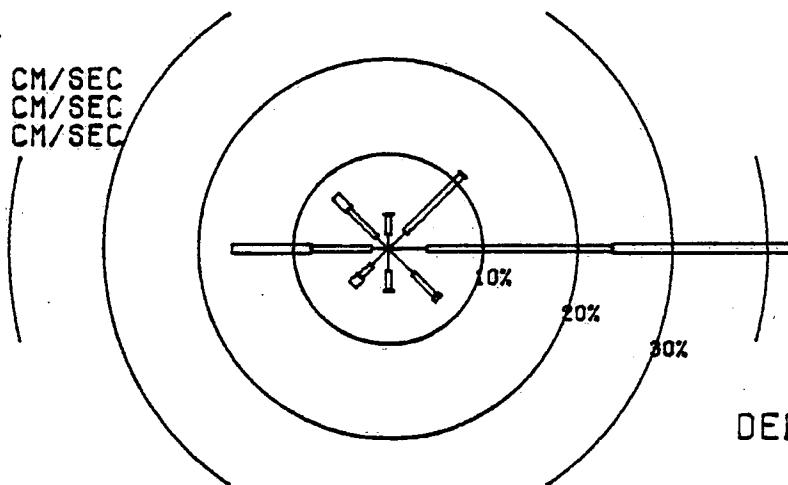


MOORING: 3 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

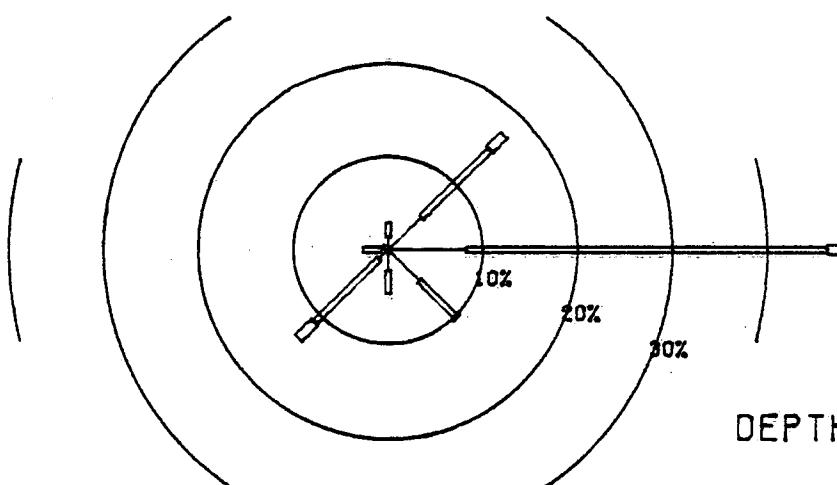
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



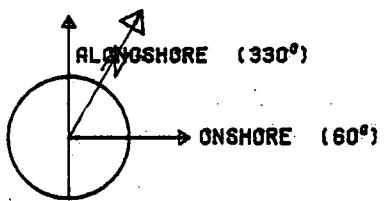
DEPTH: 10 M



DEPTH: 26 M

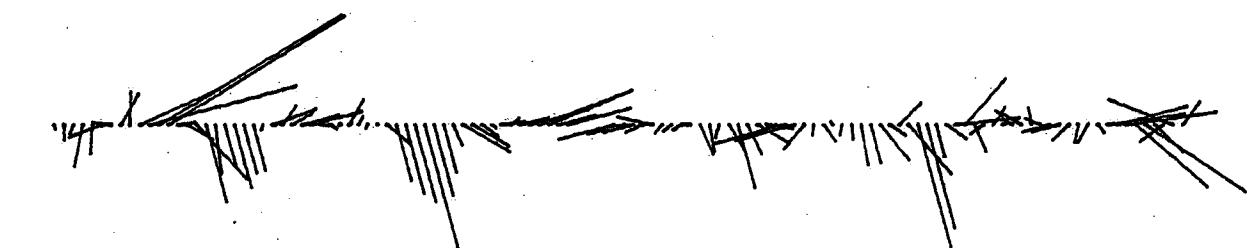
* DIRECTION TOWARDS

MOORING: 76-5C-03 DATE: SEPT 1976



WINDSPEED²

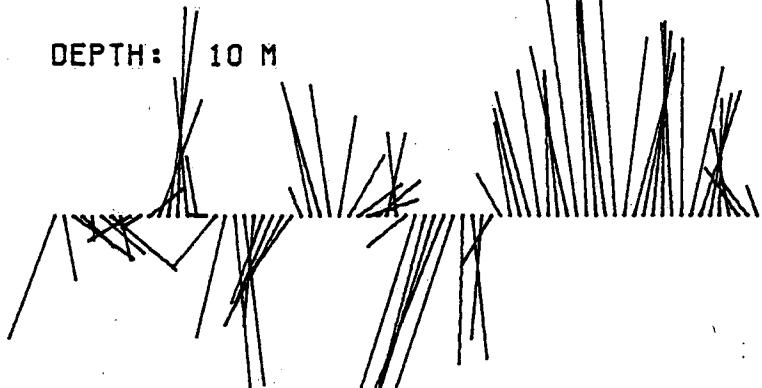
0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC

DEPTH: 10 M

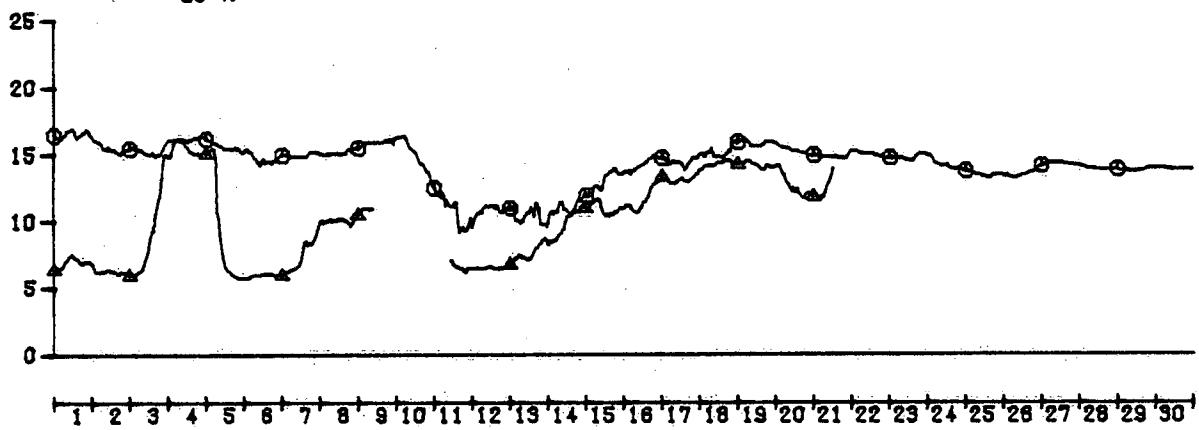


DEPTH: 26 M



○ - 10 M
△ - 26 M

TEMPERATURE °C

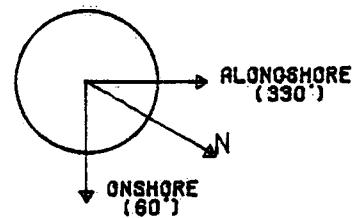
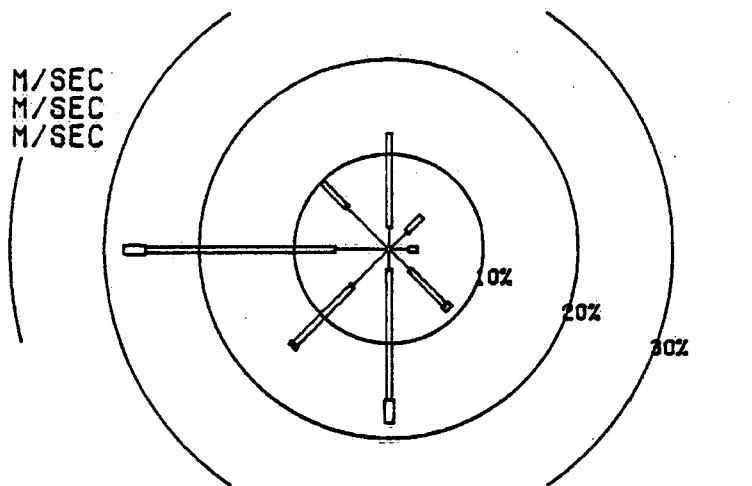


MOORING: 4

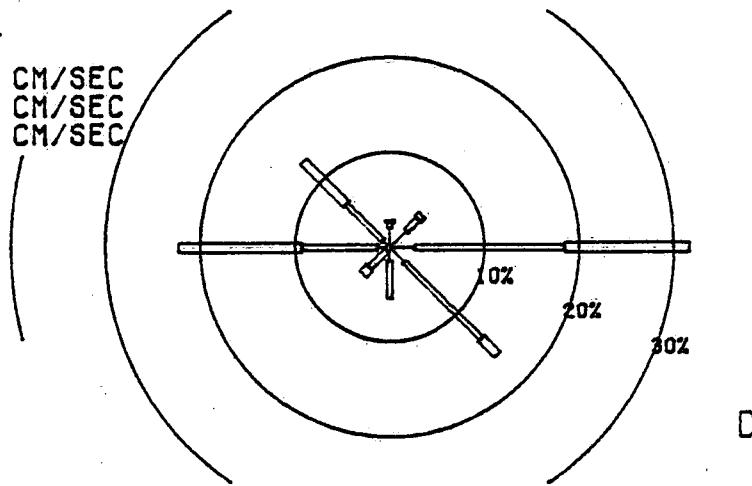
DATE: SEPT 1976

MONTHLY SUMMARY: WIND AND CURRENT*

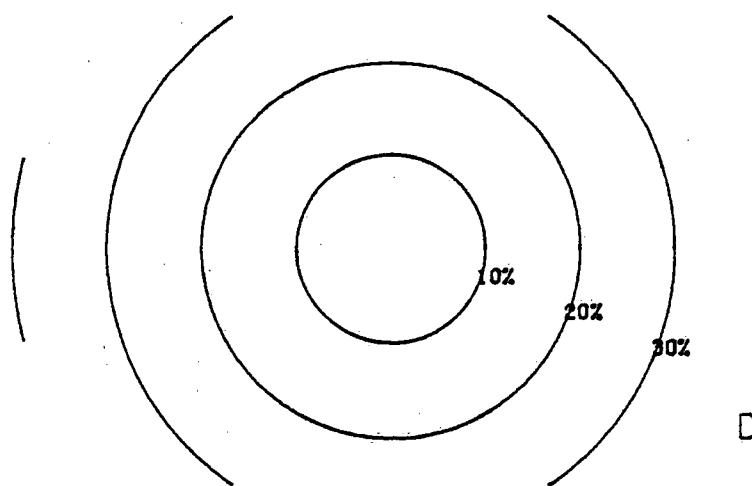
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



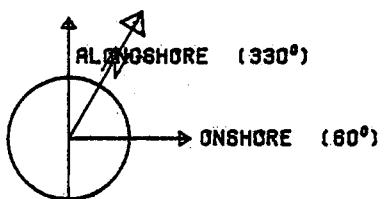
DEPTH: 10 M



DEPTH: 20 M

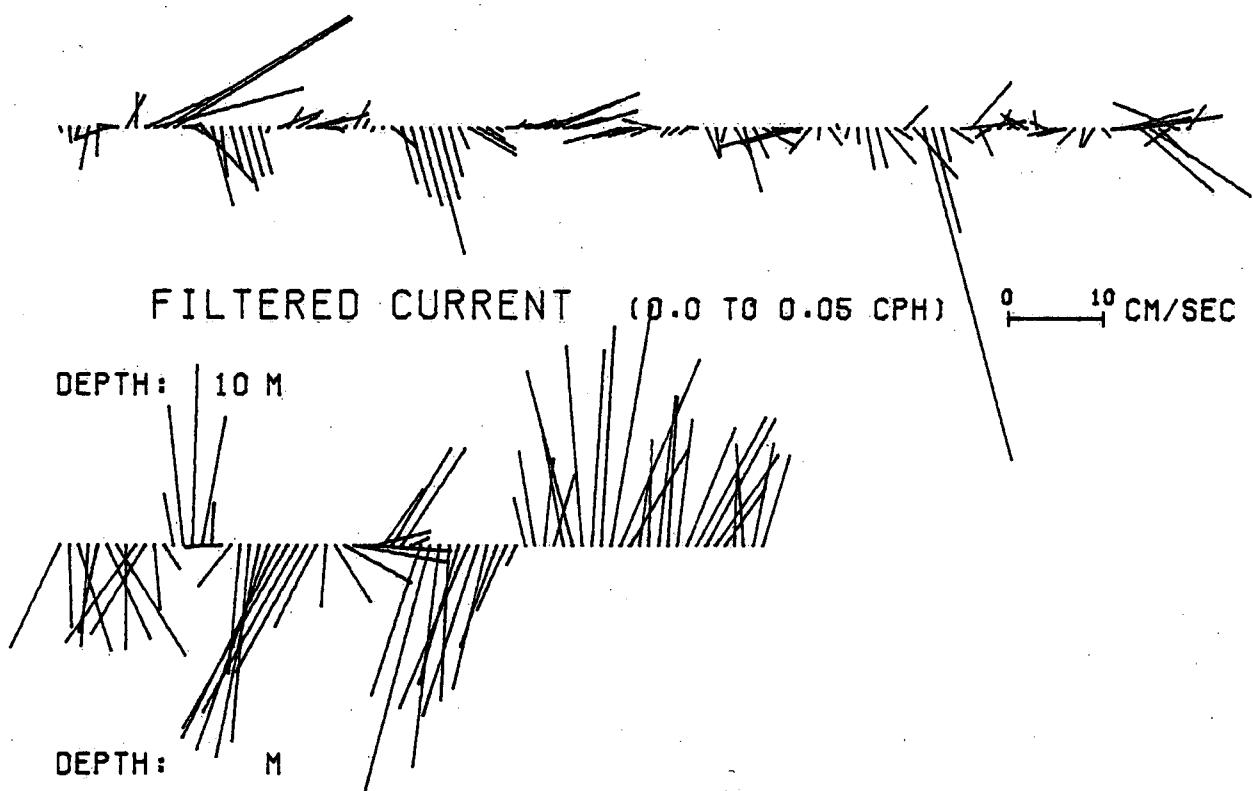
* DIRECTION TOWARDS

MOORING: 76-5C-04 DATE: SEPT 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

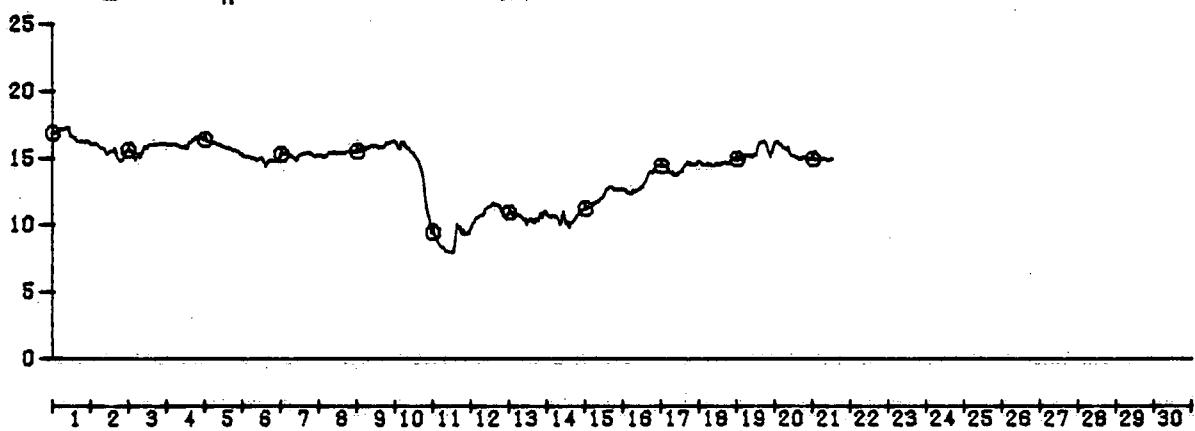
0 10 CM/SEC

DEPTH: 10 M

DEPTH: M

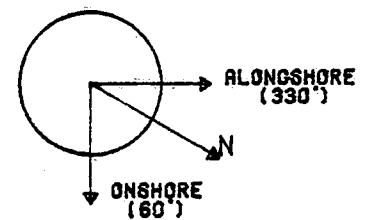
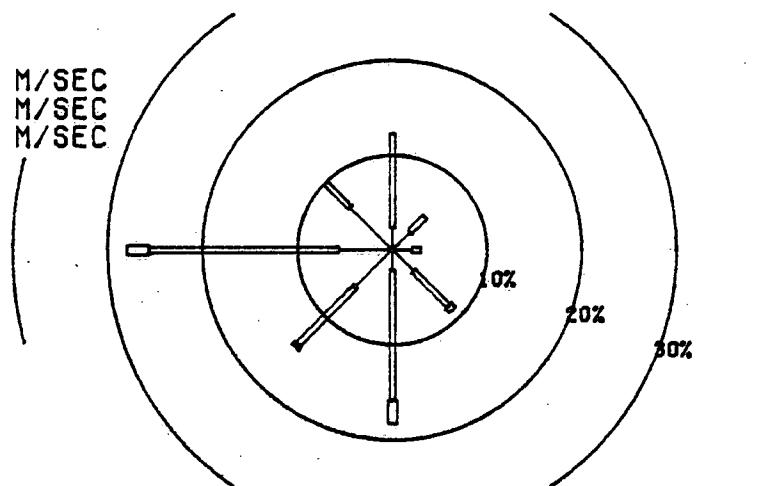
○ - 10 M
△ - M

TEMPERATURE °C

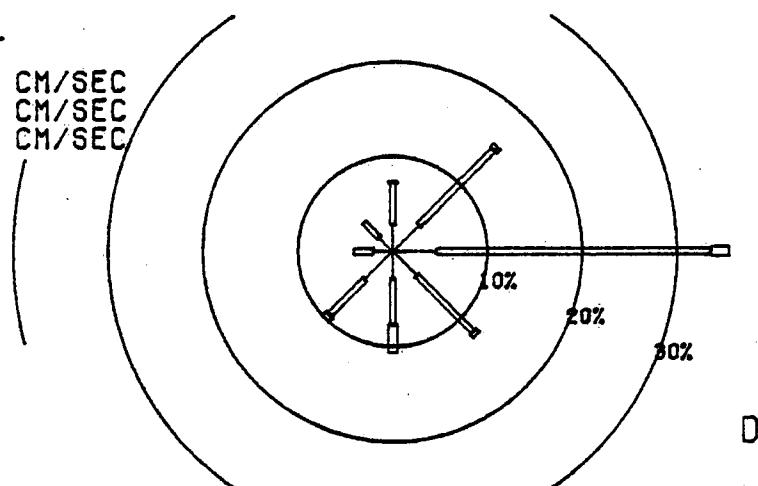


MOORING: 4 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC

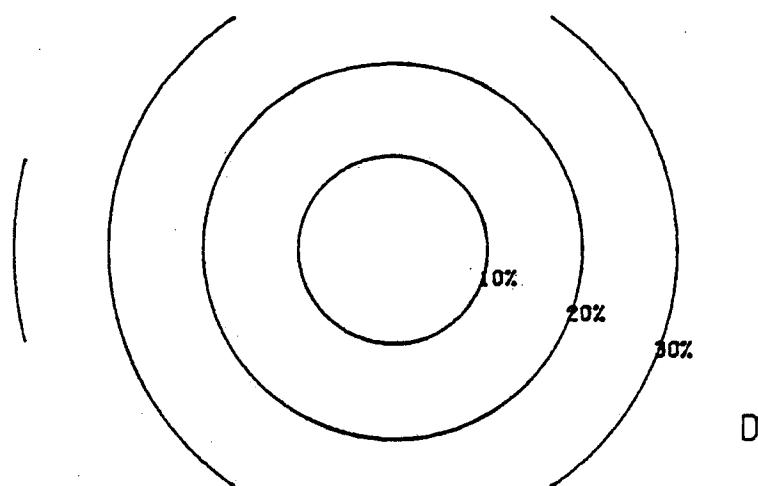


CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



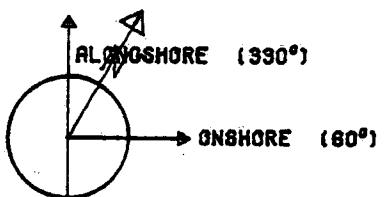
DEPTH: 31 M

* DIRECTION TOWARDS



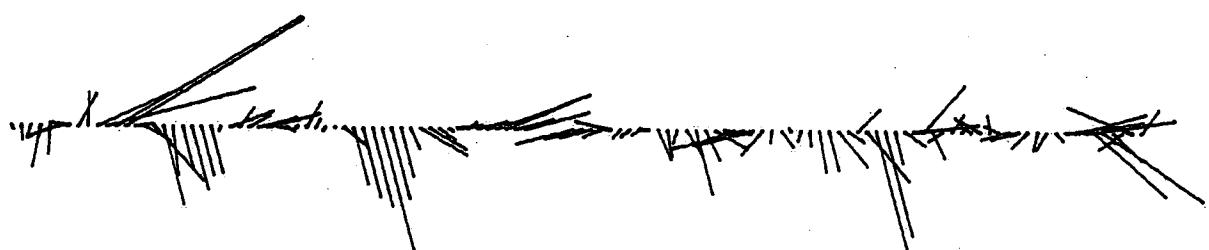
DEPTH: M

MOORING: 76-5C-04 DATE: SEPT 1976



WINDSPEED²

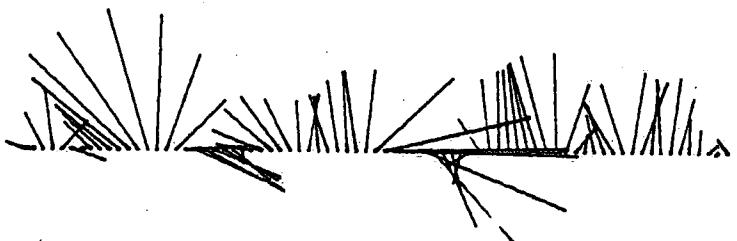
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

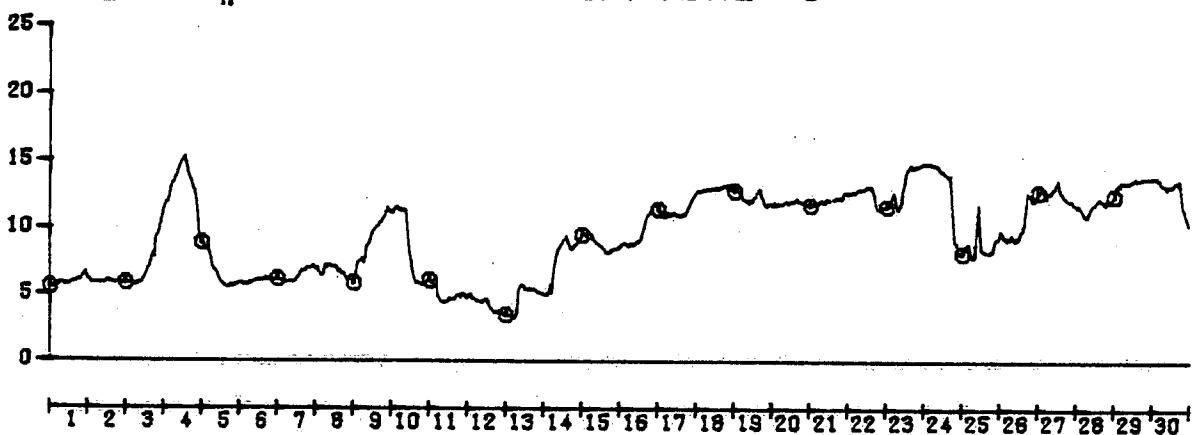
DEPTH: 31 M



DEPTH: M

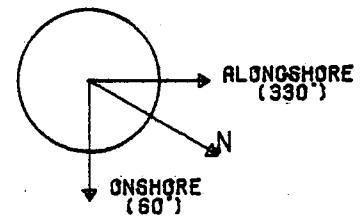
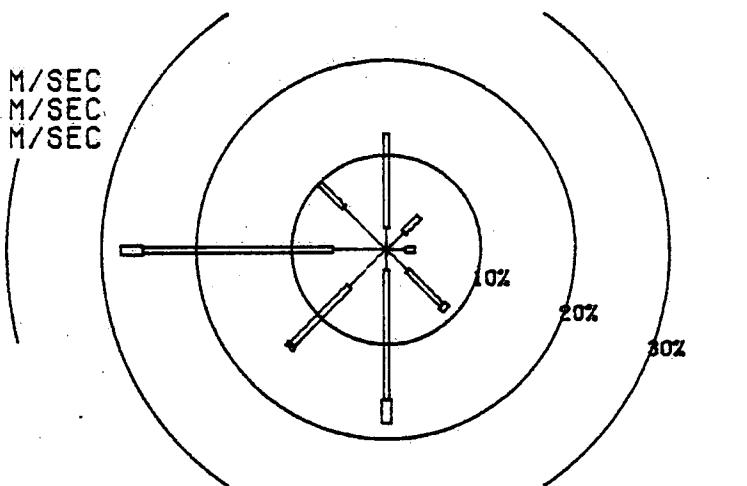
Φ - 31 M
△ - M

TEMPERATURE °C

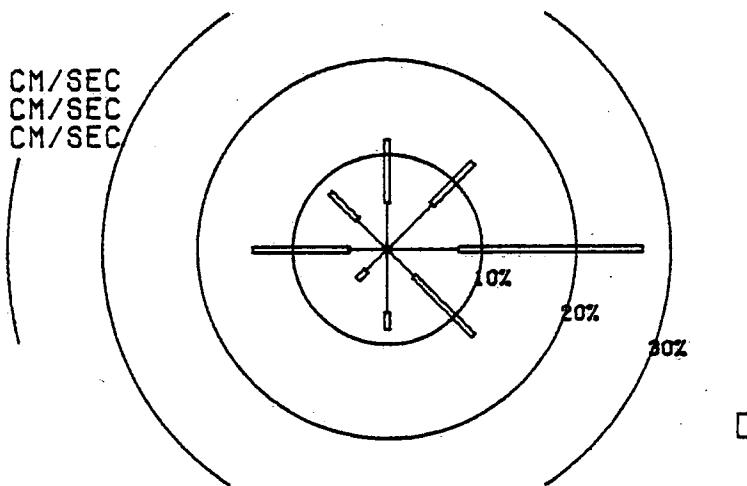


MOORING: 5 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

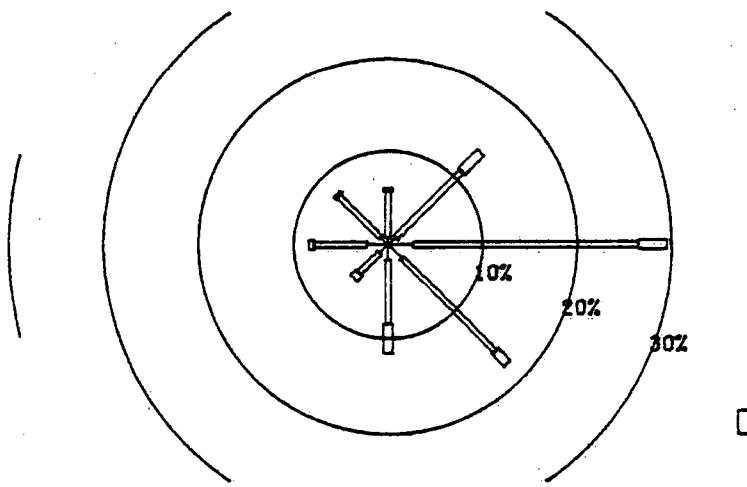
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



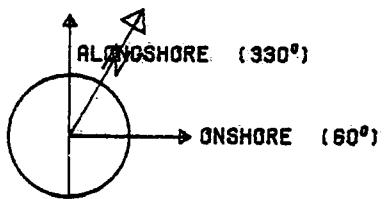
DEPTH: 10 M



DEPTH: 25 M

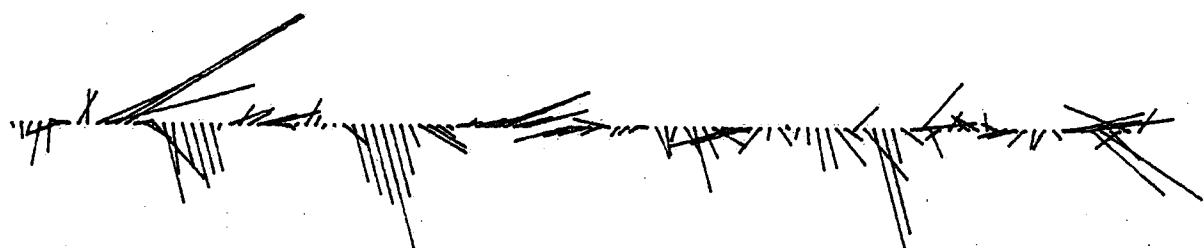
* DIRECTION TOWARDS

MOORING: 76-5C-05 DATE: SEPT 1976



WINDSPEED²

0 40 M²/SEC²



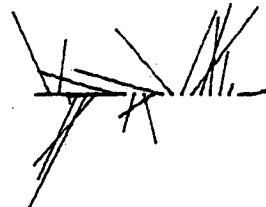
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

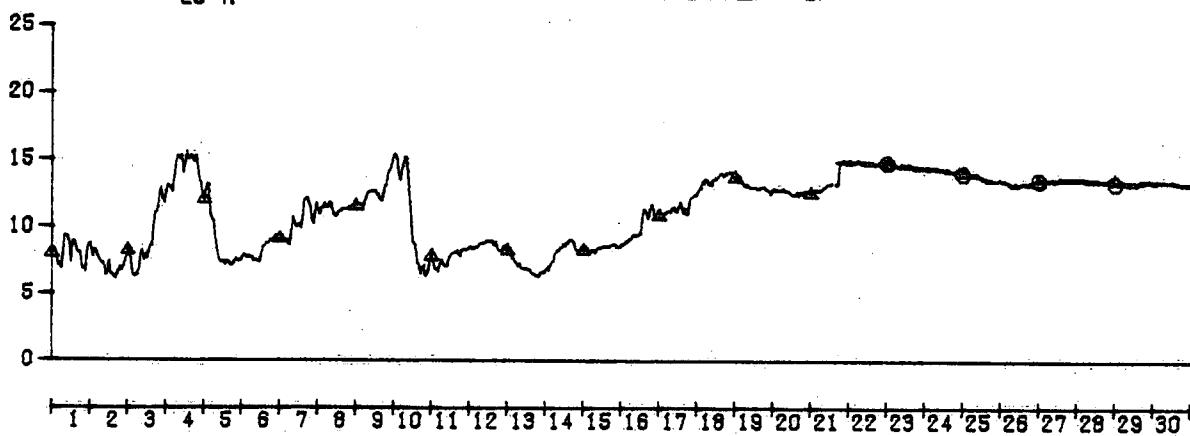


DEPTH: 25 M

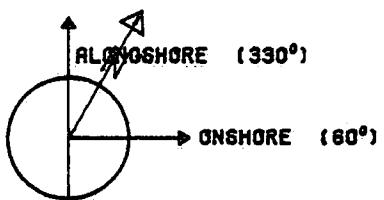


○ - 10 M
△ - 25 M

TEMPERATURE °C



MOORING: 76-5C-05 DATE: SEPT 1976



WINDSPEED²

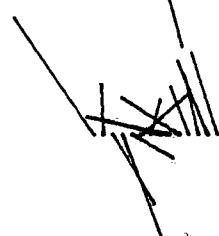
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

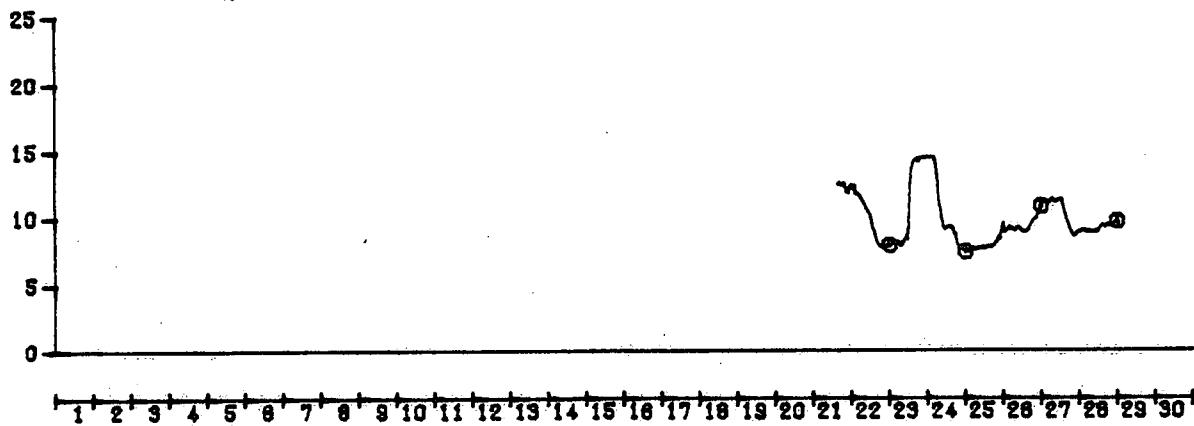
DEPTH: 36 M



DEPTH: M

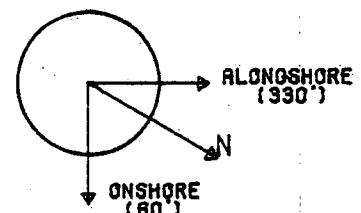
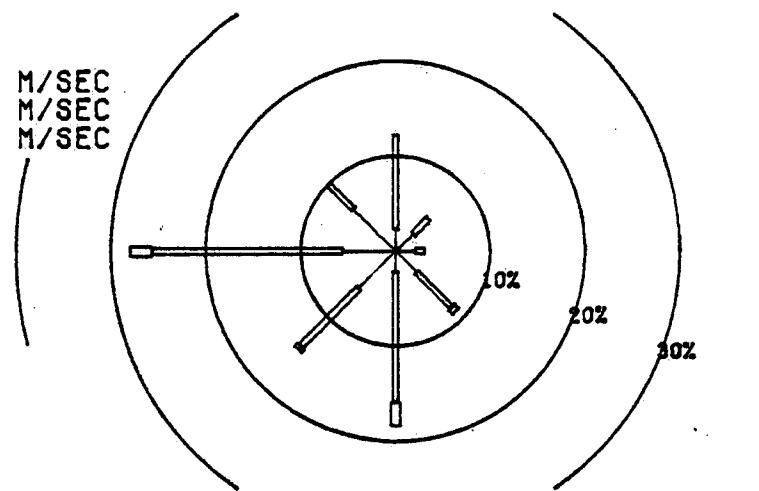
○ - 36 M
△ - M

TEMPERATURE °C

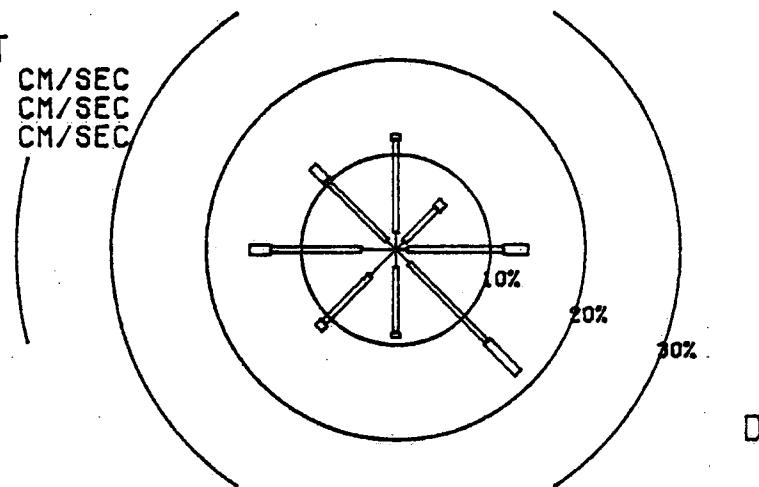


MOORING: 6 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

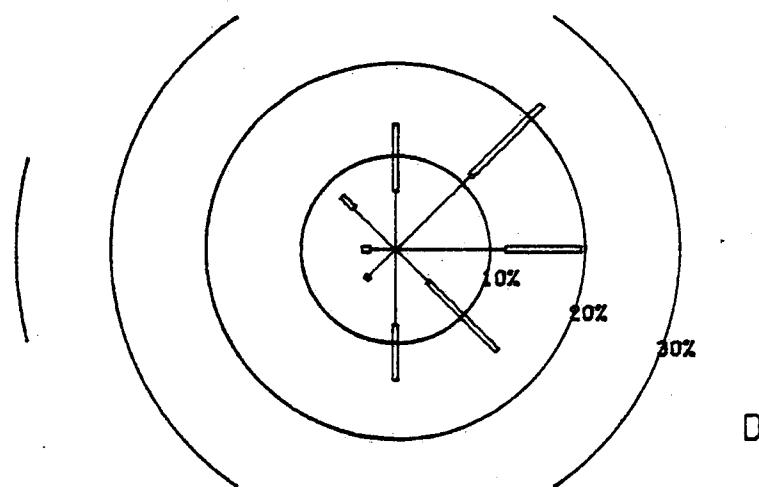
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



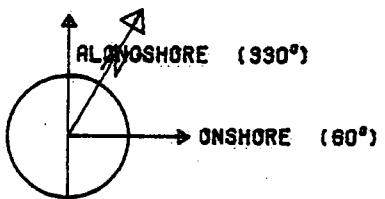
DEPTH: 10 M



DEPTH: 25 M

* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: SEPT 1976



WINDSPEED²

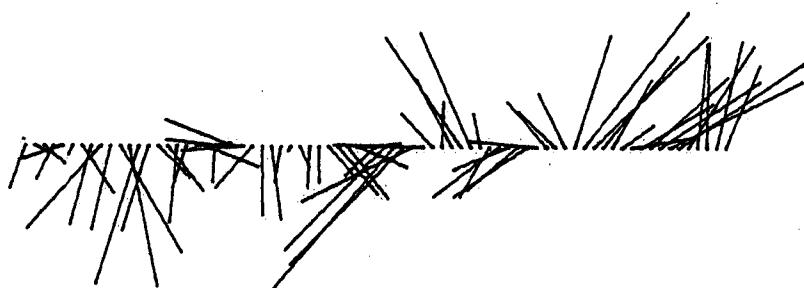
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

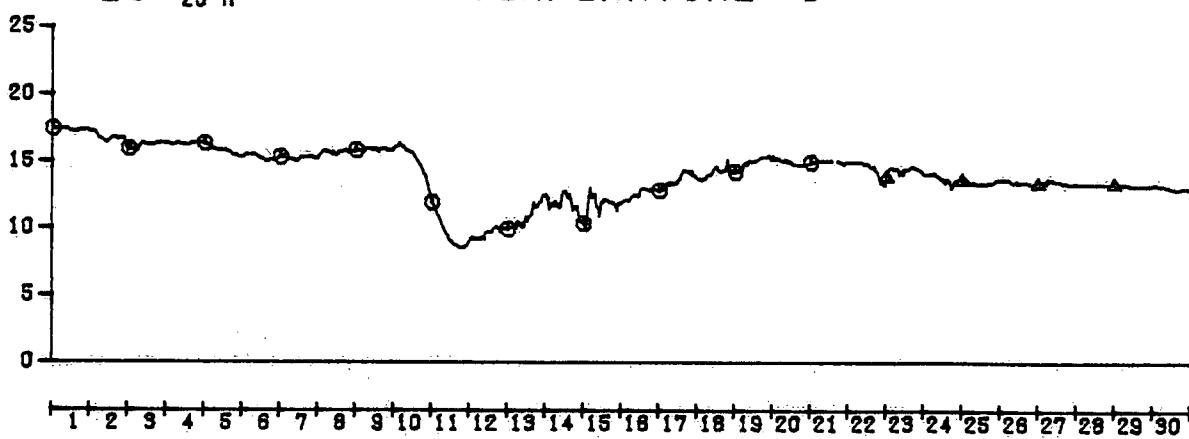


DEPTH: 25 M



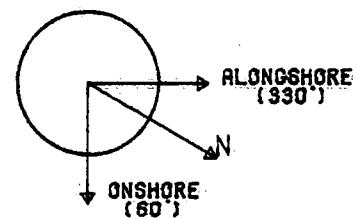
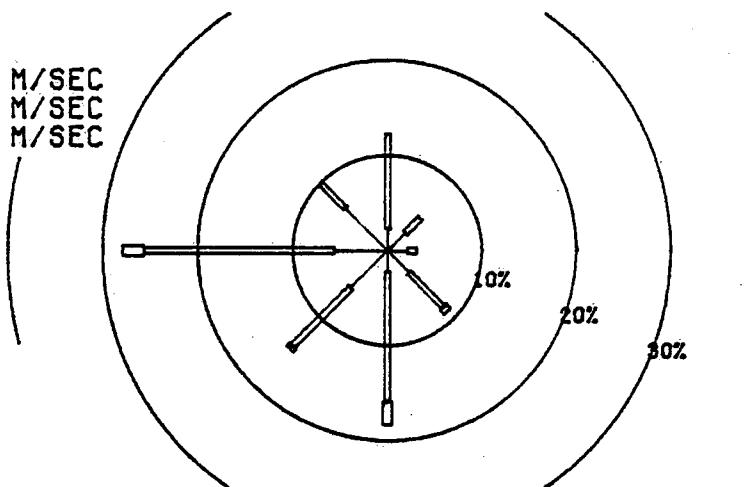
○ - 10 M
△ - 25 M

TEMPERATURE °C

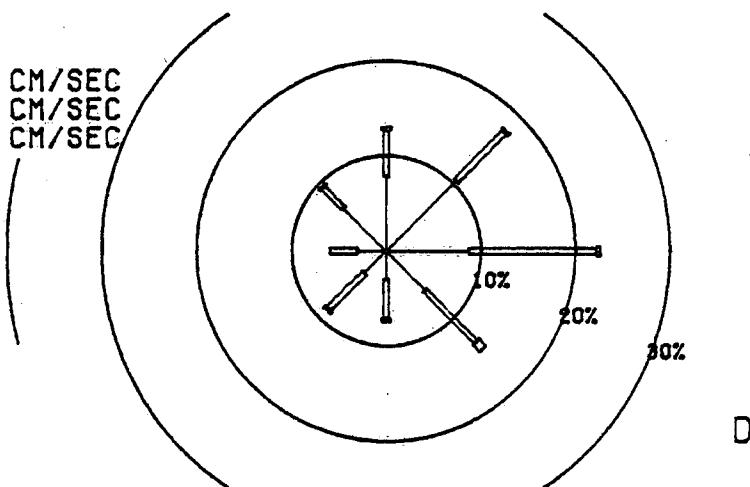


MOORING: 6 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

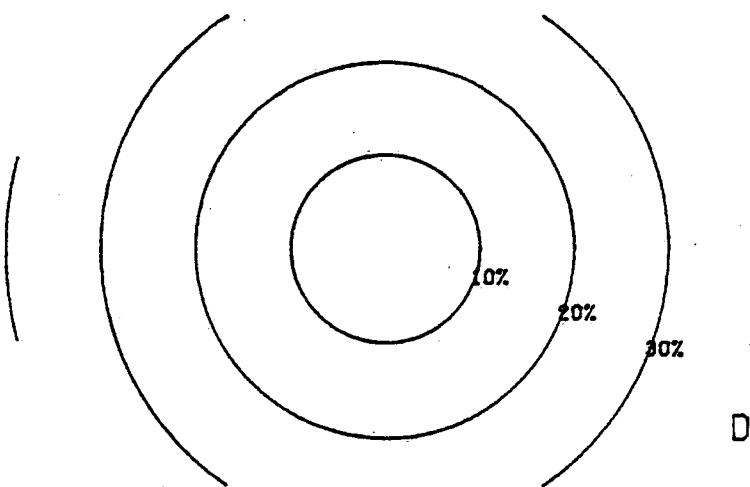
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



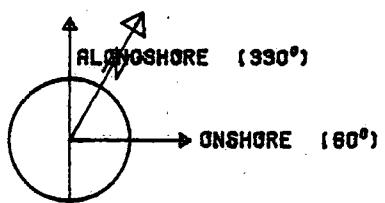
DEPTH: 43 M



DEPTH: M

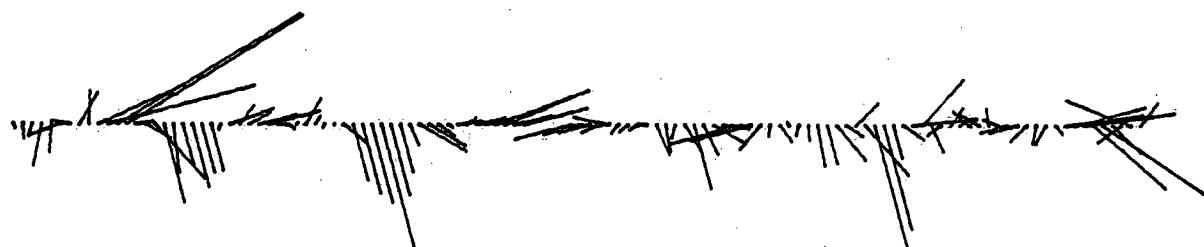
* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: SEPT 1976



WINDSPEED²

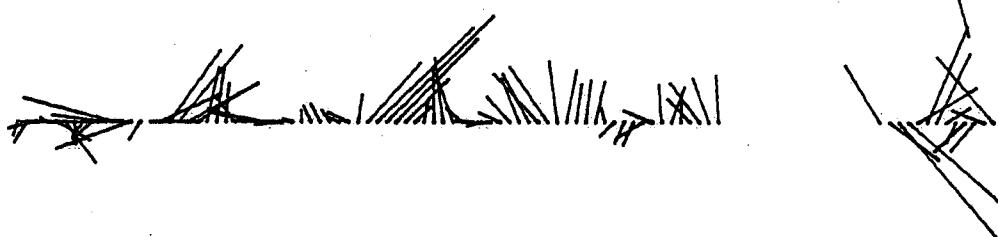
0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 CM/SEC

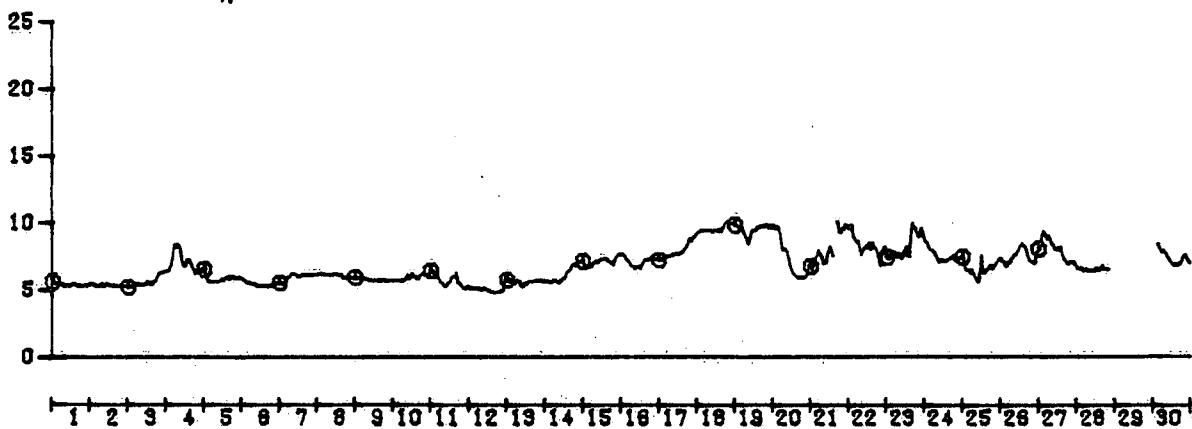
DEPTH: 43 M



DEPTH: M

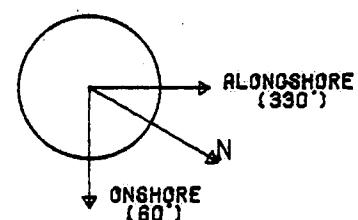
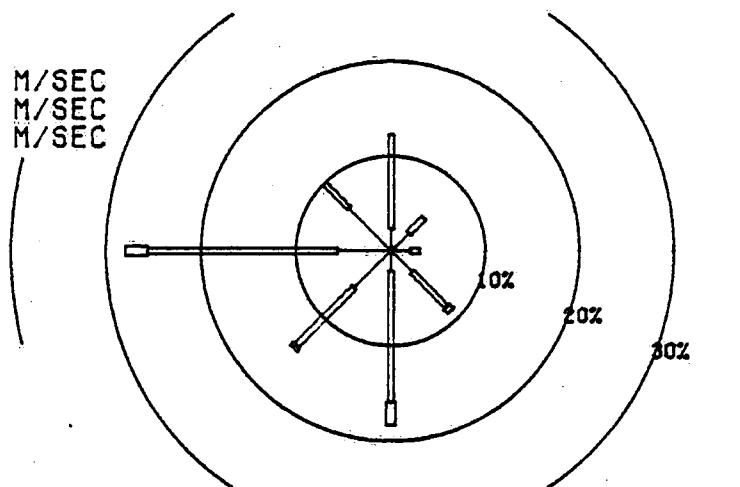
○ - 43 M
△ - M

TEMPERATURE °C

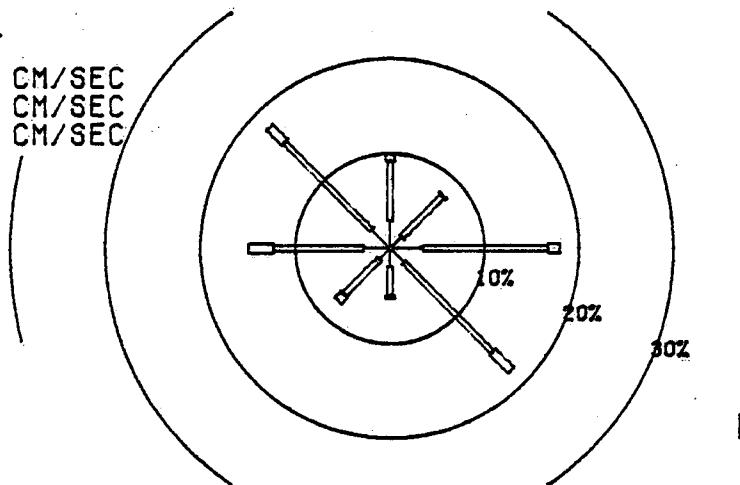


MOORING: 7 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

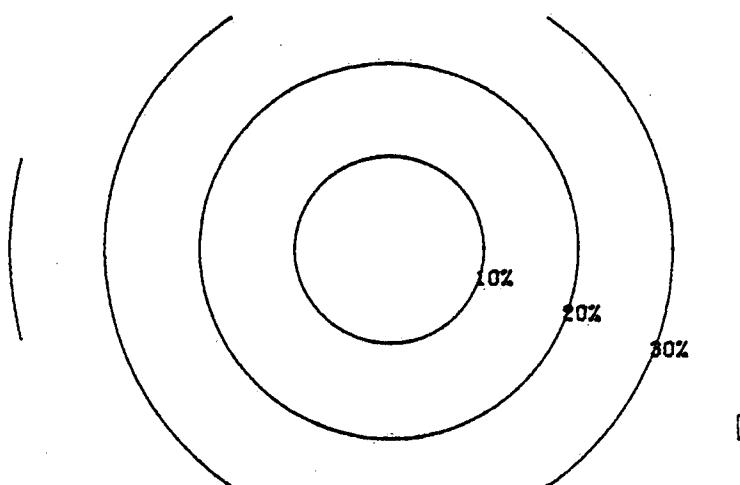
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



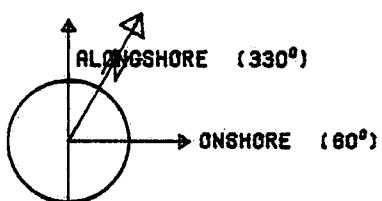
DEPTH: 10 M



DEPTH: M

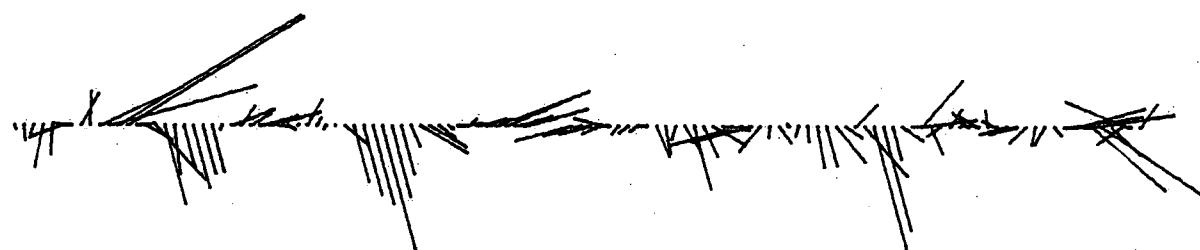
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: SEPT 1976



WINDSPEED²

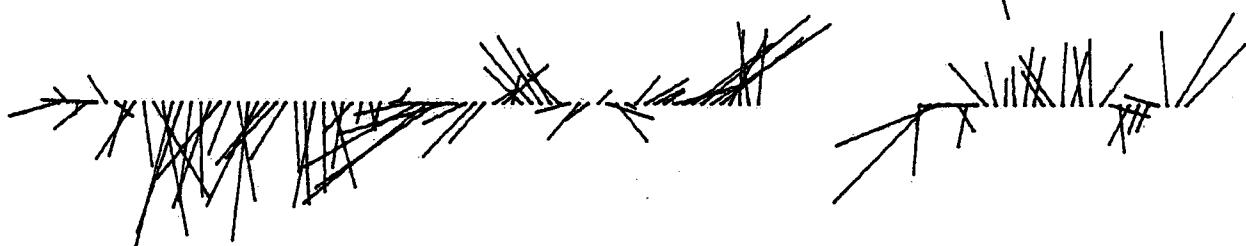
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

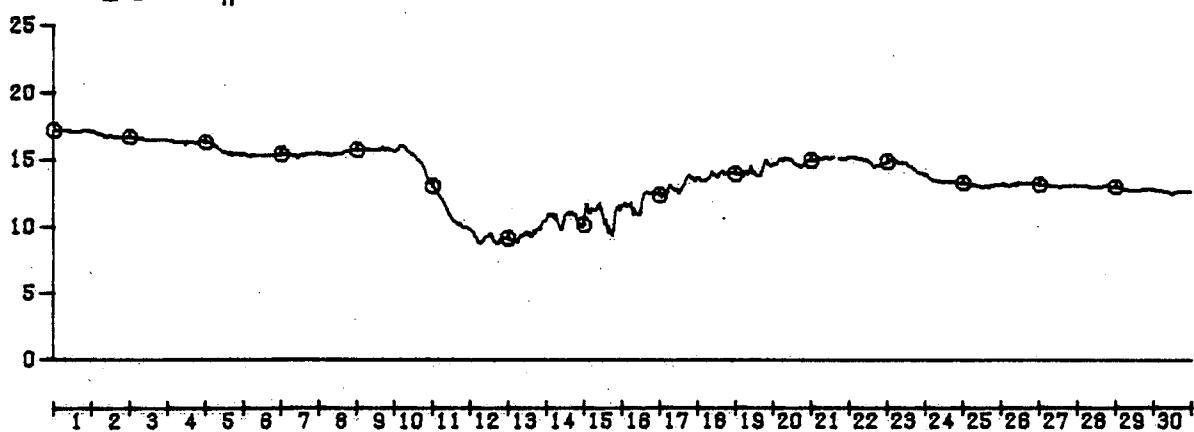
DEPTH: 10 M



DEPTH: M

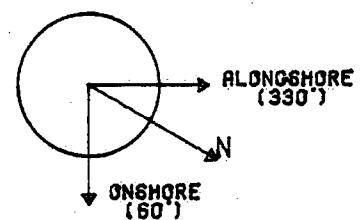
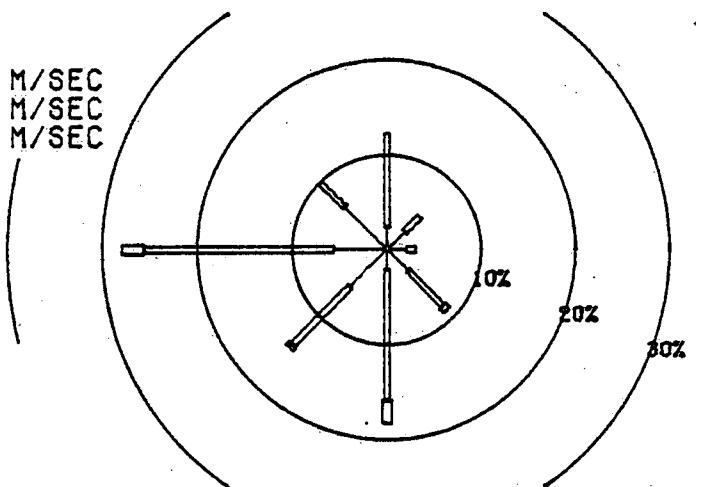
○ - 10 M
△ - M

TEMPERATURE °C

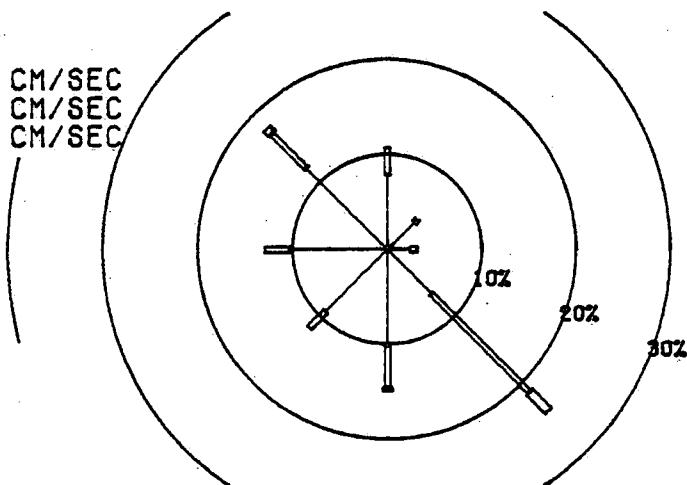


MOORING: 7 DATE: SEPT 1976
MONTHLY SUMMARY: WIND AND CURRENT*

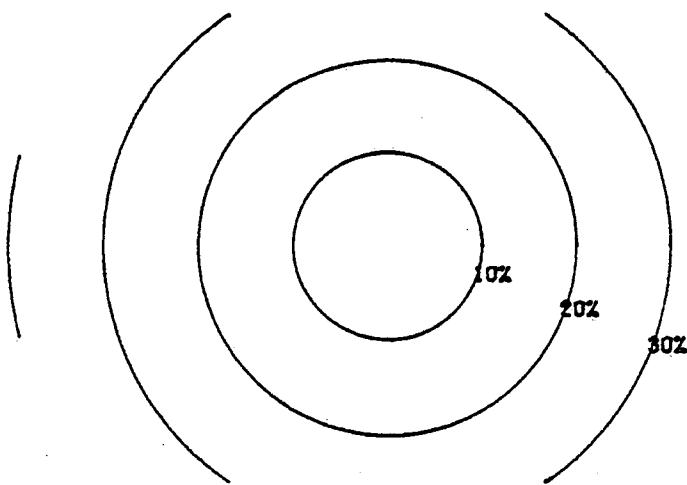
WIND
— 0-3 M/SEC
— 3-7 M/SEC
— ≥ 7 M/SEC



CURRENT
— 0-5 CM/SEC
— 5-15 CM/SEC
— ≥ 15 CM/SEC



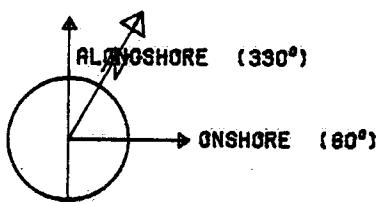
DEPTH: 55 M



DEPTH: M

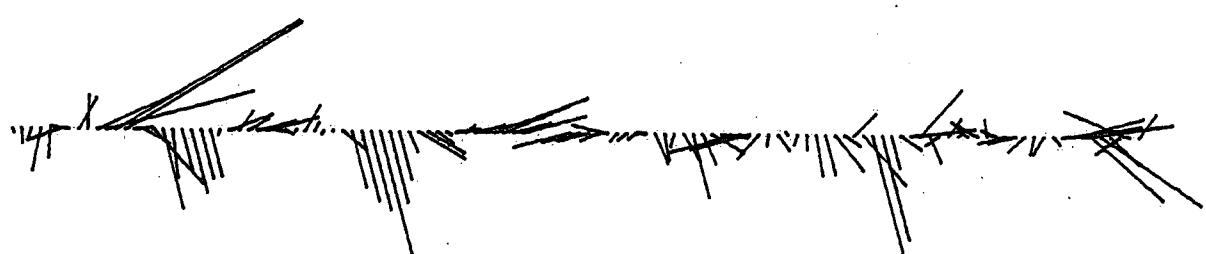
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: SEPT 1976



WINDSPEED²

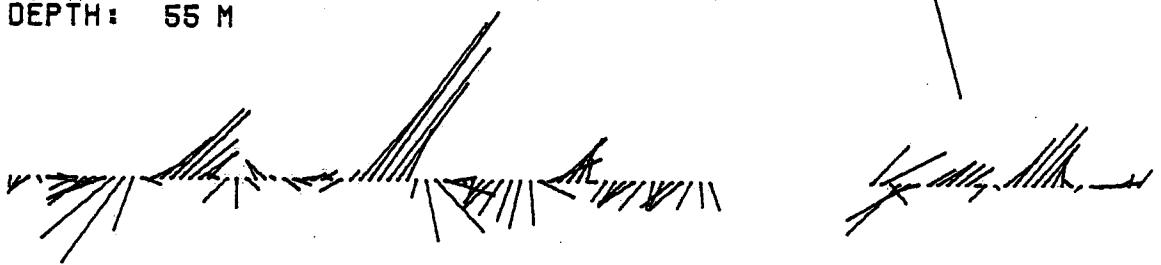
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

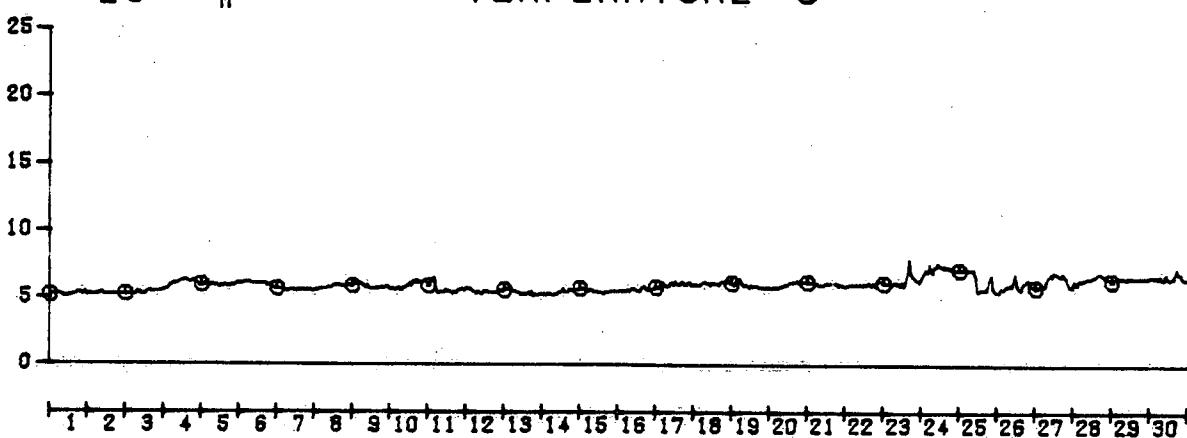
DEPTH: 55 M



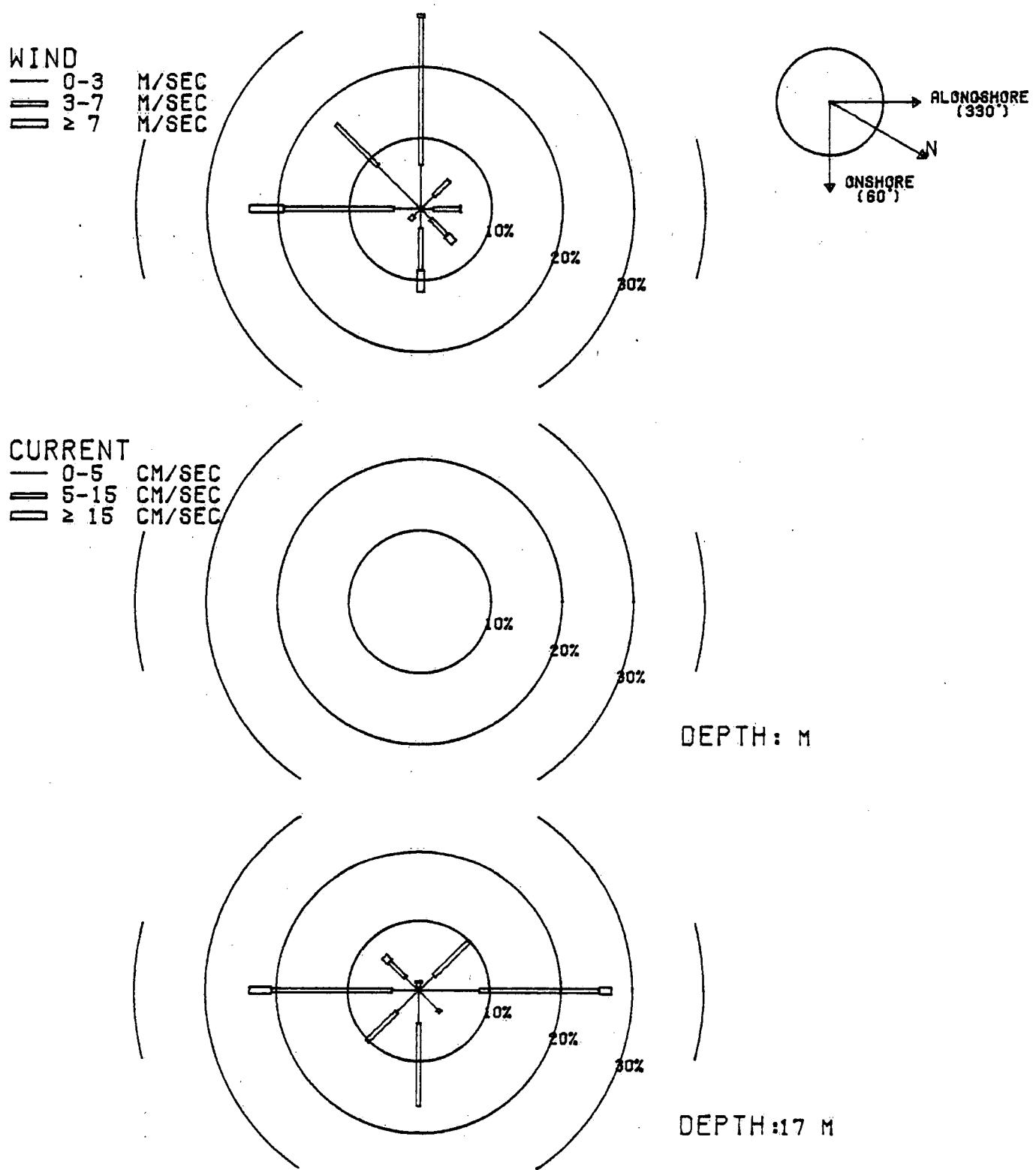
DEPTH: M

○ - 55 M
△ - M

TEMPERATURE °C

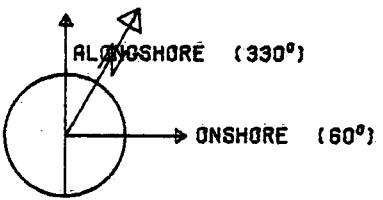


MOORING: 2 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



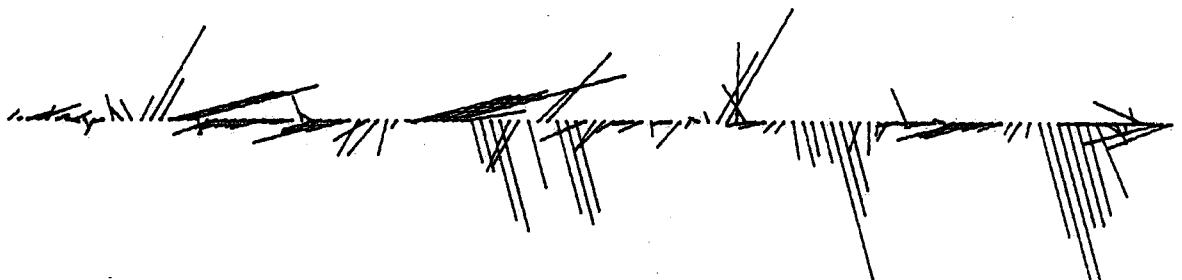
* DIRECTION TOWARDS

MOORING: 76-5C-02 DATE: OCT 1976



WINDSPEED²

0 40 M²/SEC²

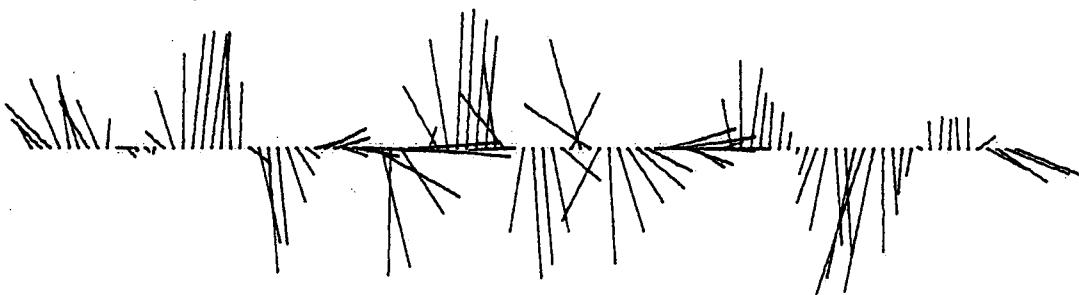


FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

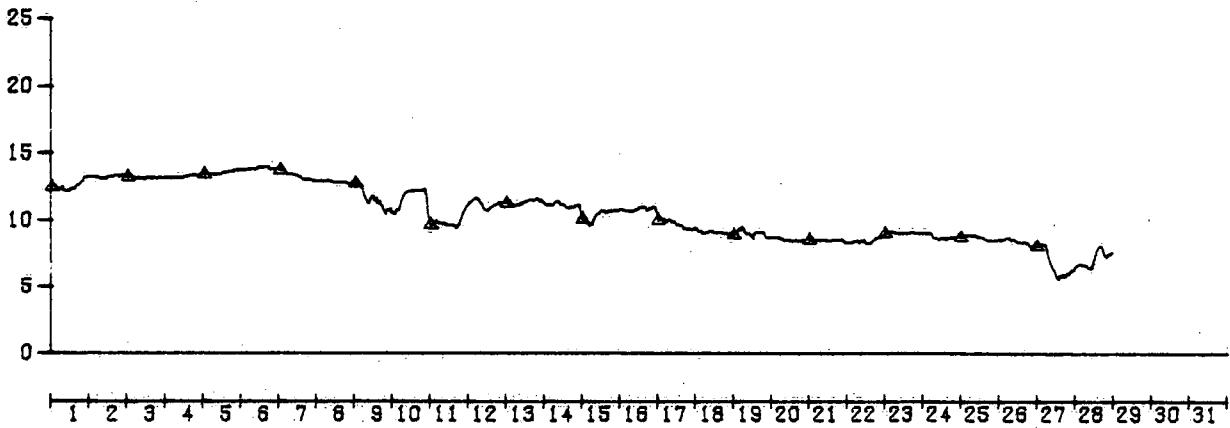
DEPTH: M

DEPTH: 17 M

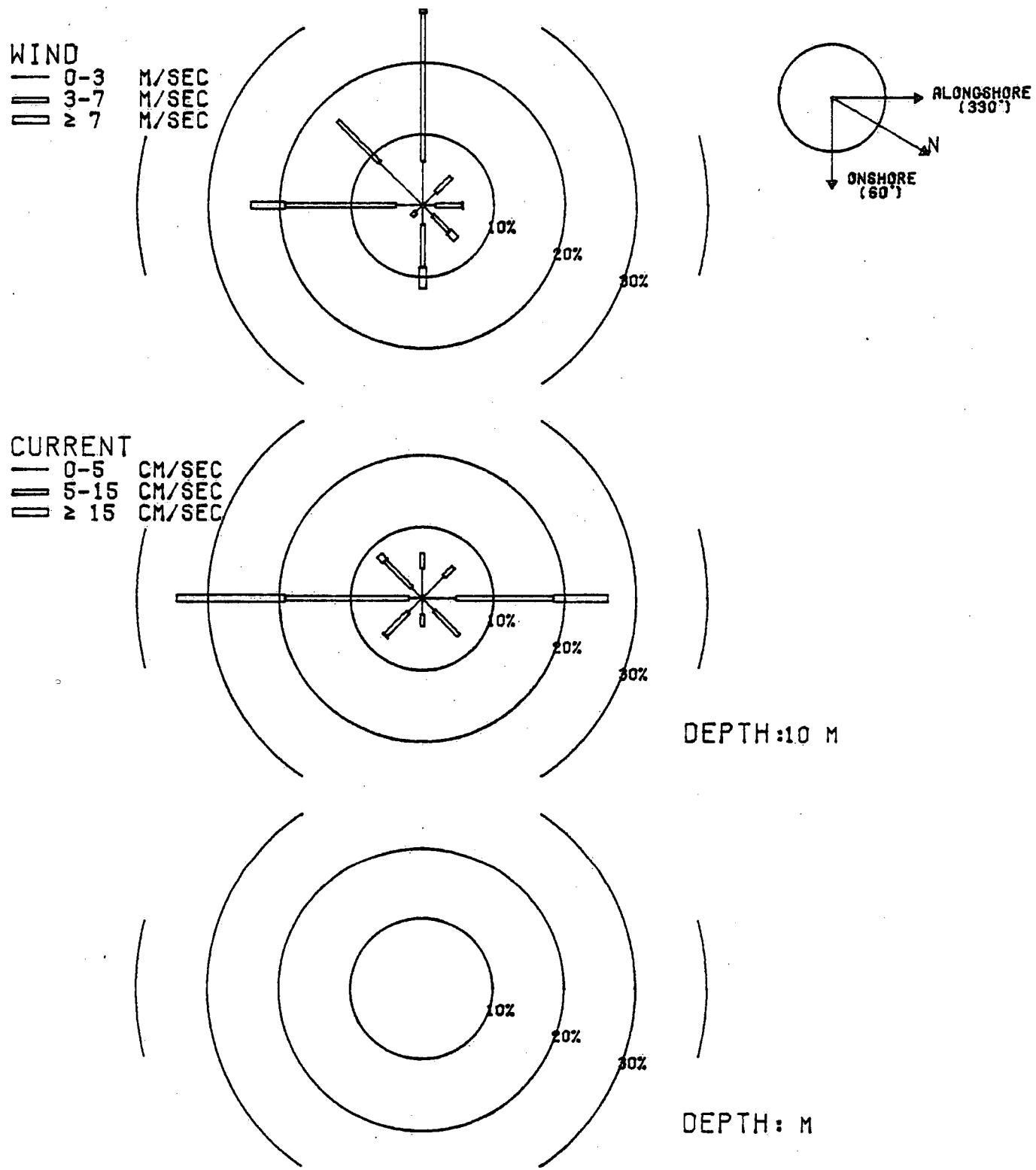


⊖ - M
△ - 17 M

TEMPERATURE °C

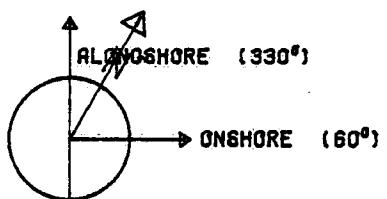


MOORING: 3 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



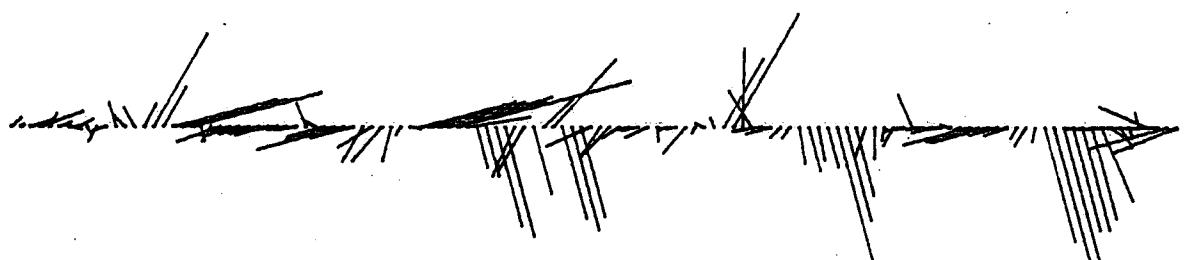
* DIRECTION TOWARDS

MOORING: 76-5C-03 DATE: OCT 1976



WINDSPEED²

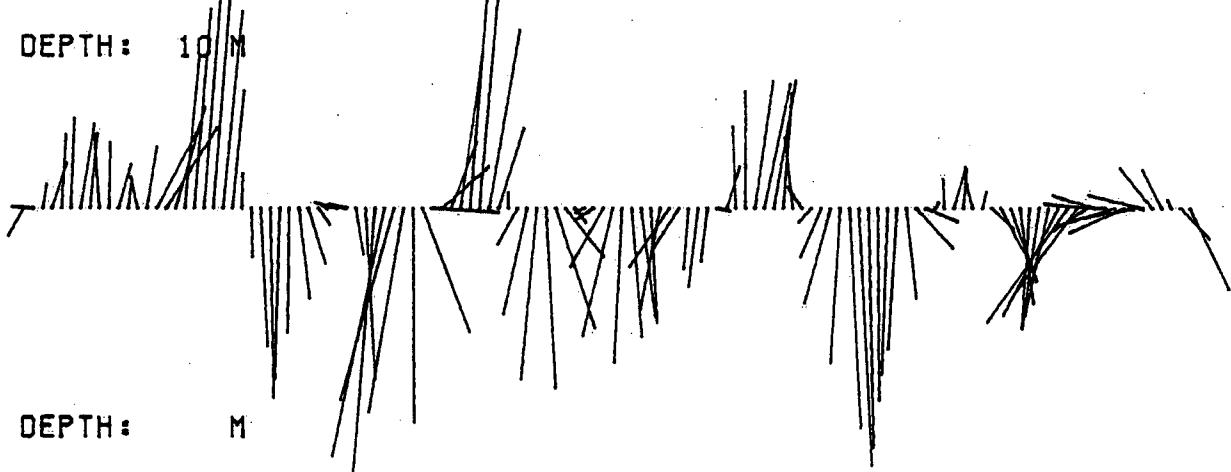
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

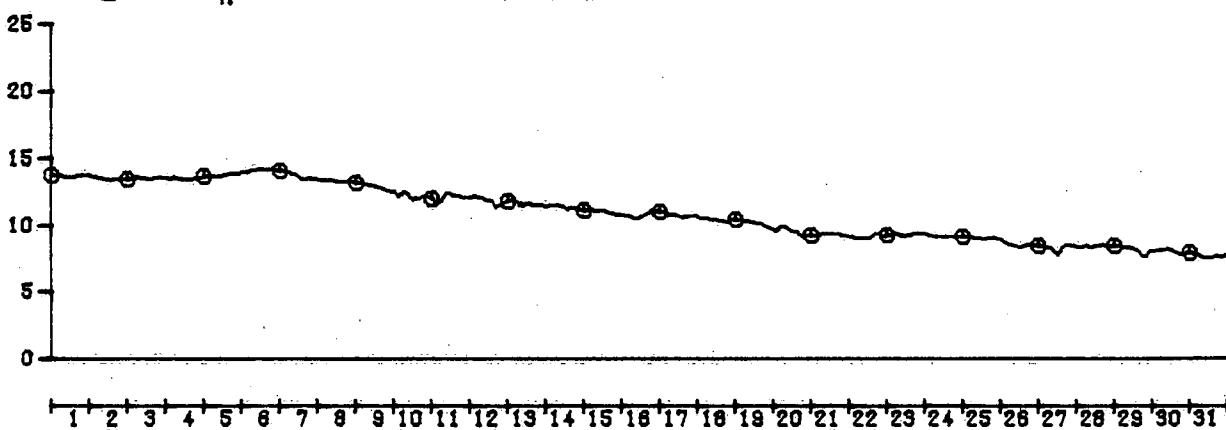
DEPTH: 10 M



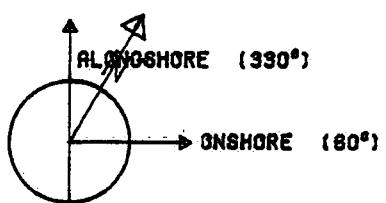
DEPTH: M

○ - 10 M
△ - M

TEMPERATURE °C



MOORING: 76-5C-04 DATE: OCT 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

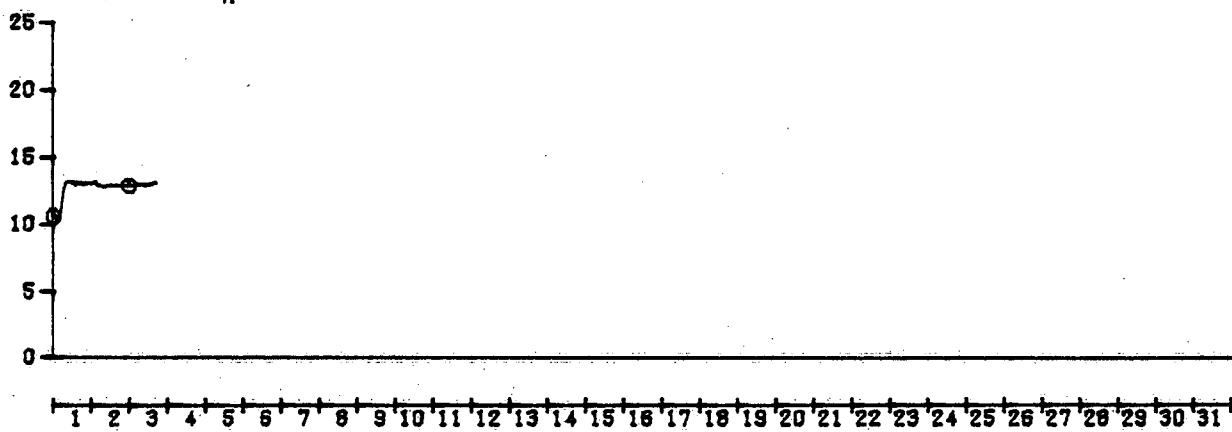
DEPTH: 31 M



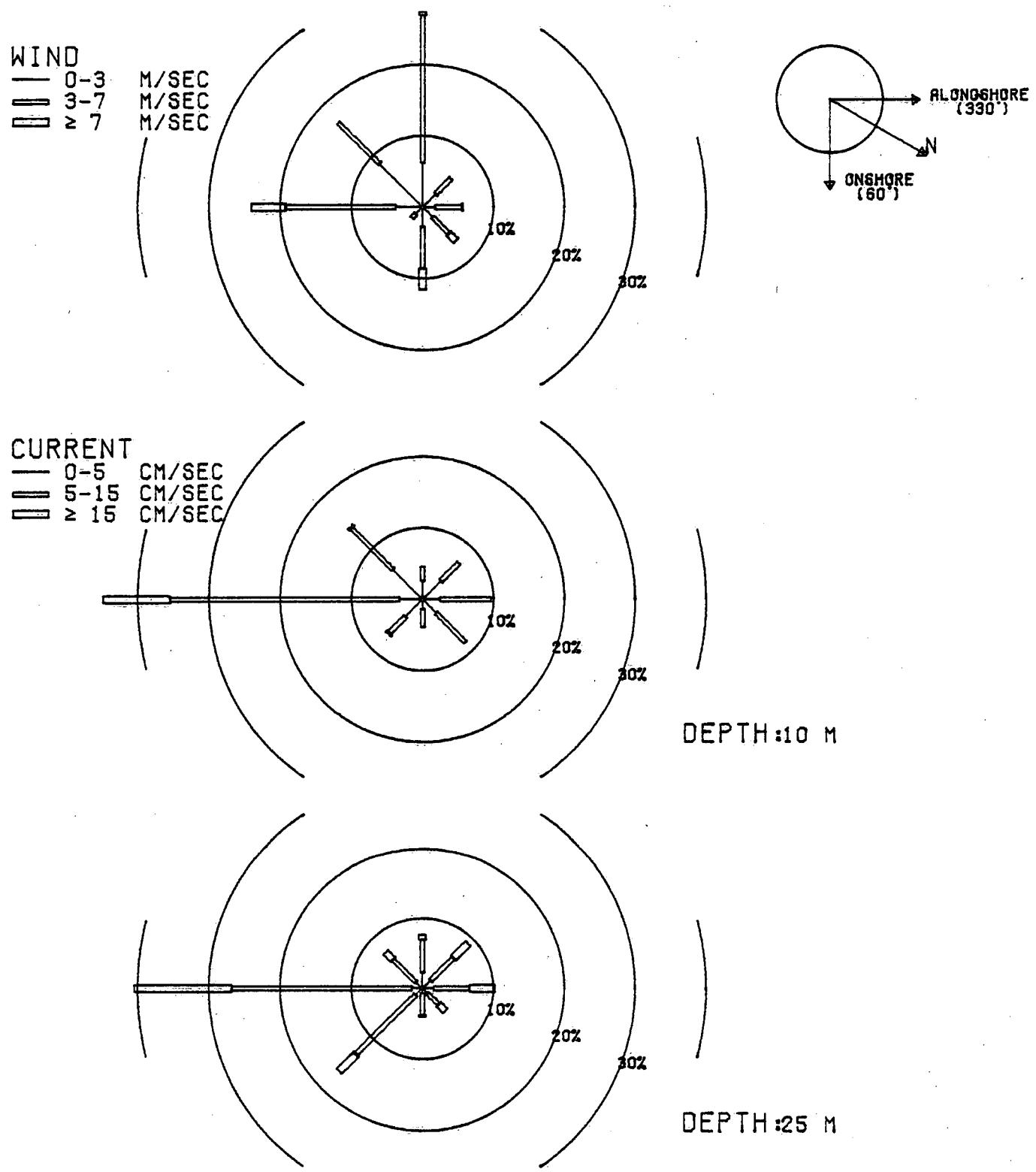
DEPTH: M

○ - 31 M
△ - M

TEMPERATURE °C

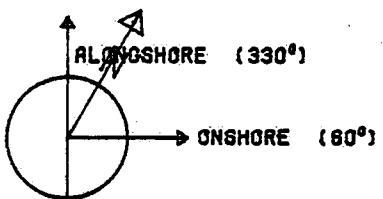


MOORING: 5 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



* DIRECTION TOWARDS

MOORING: 76-5C-05 DATE: OCT 1976



WINDSPEED²

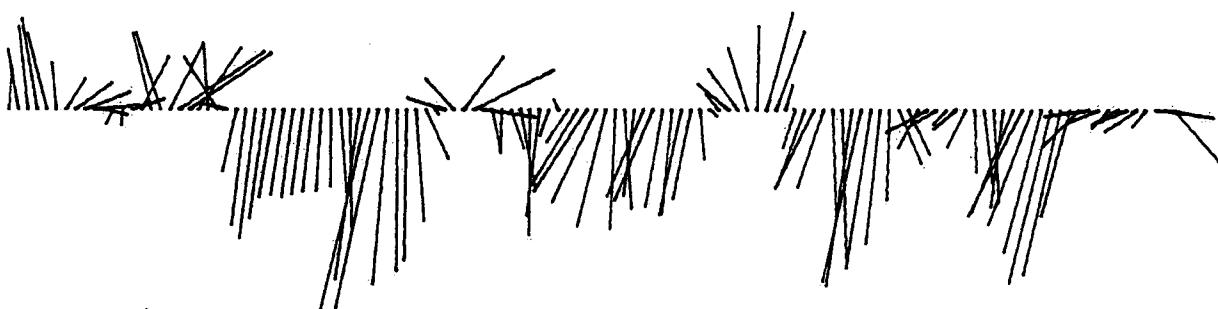
0 - 40 M²/SEC²



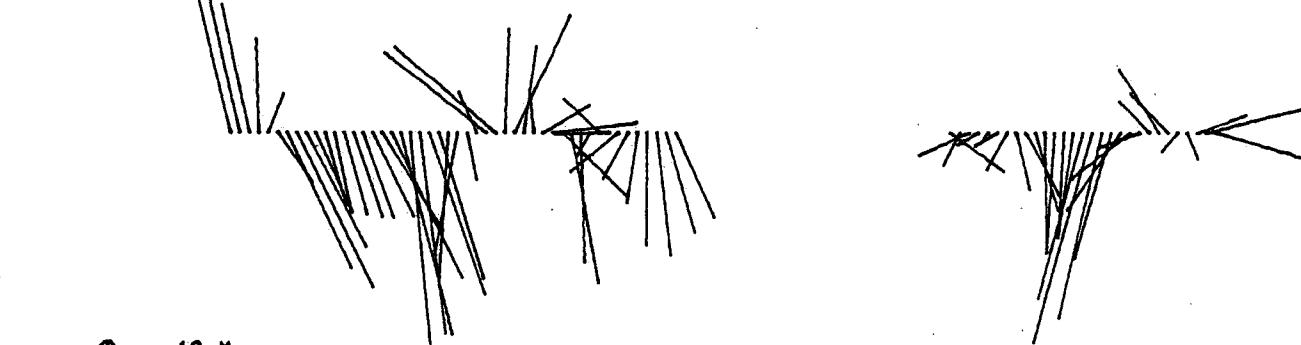
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 - 10 CM/SEC

DEPTH: 10 M

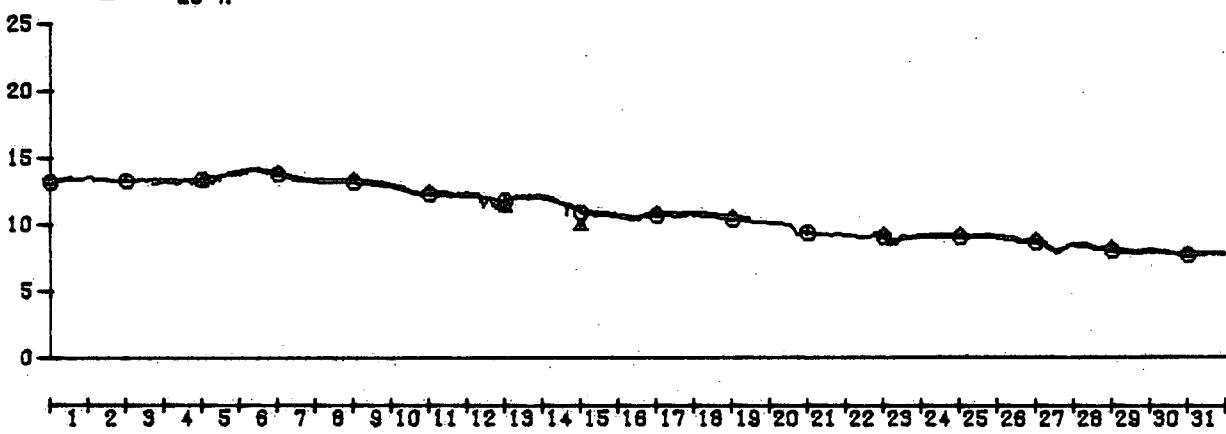


DEPTH: 25 M

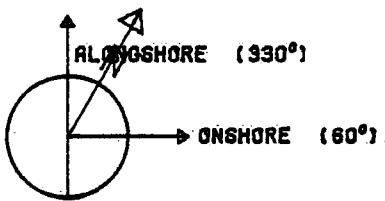


○ - 10 M
△ - 25 M

TEMPERATURE °C



MOORING: 76-5C-05 DATE: OCT 1976



WINDSPEED²

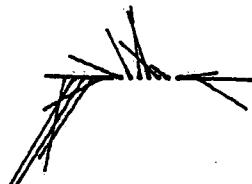
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

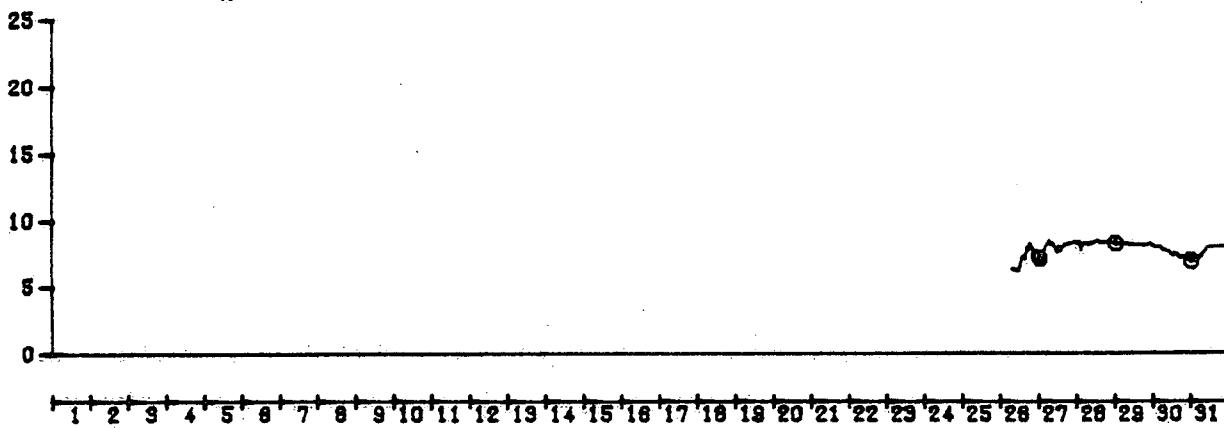
DEPTH: 36 M



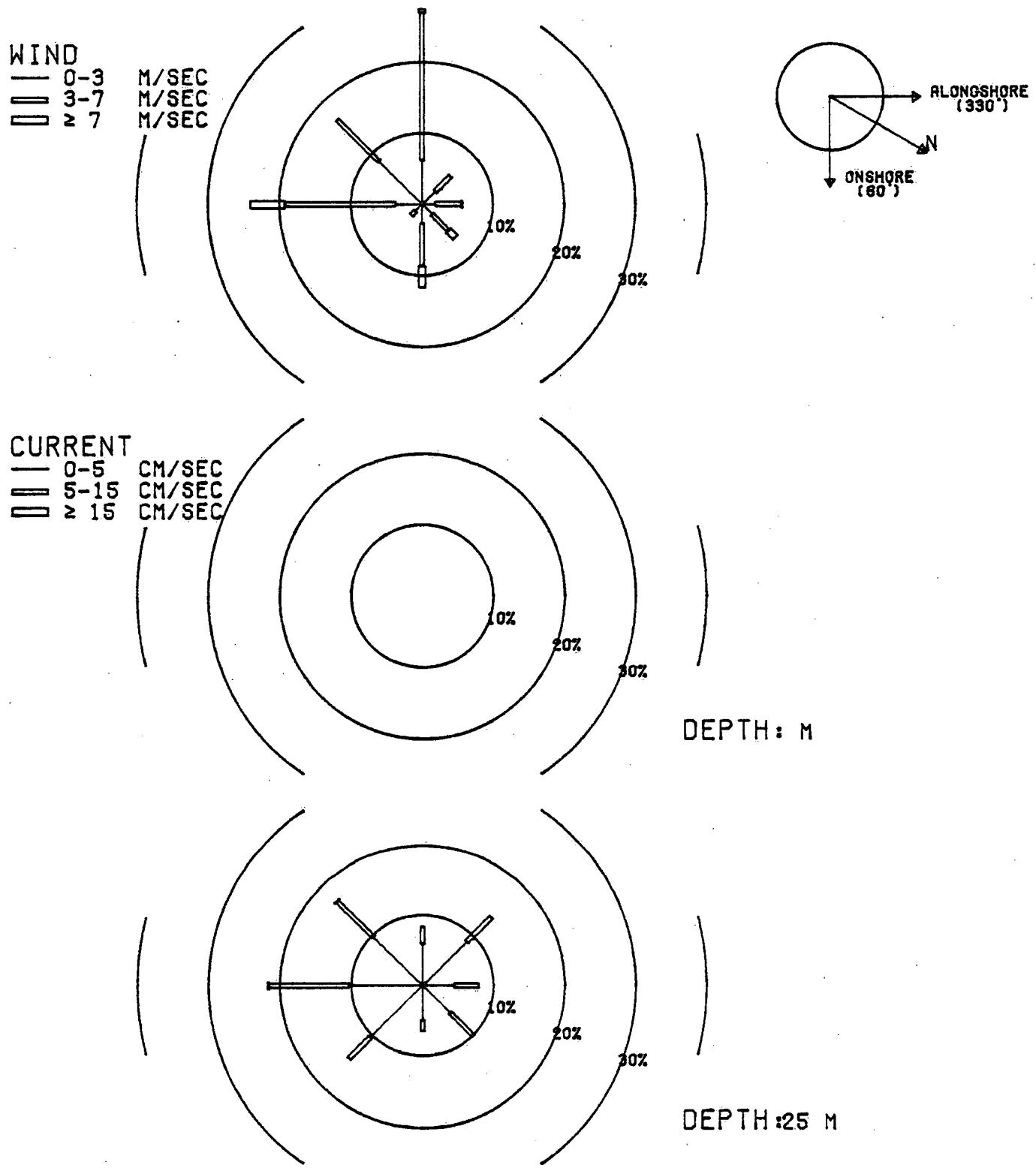
DEPTH: M

○ - 36 M
△ - M

TEMPERATURE °C

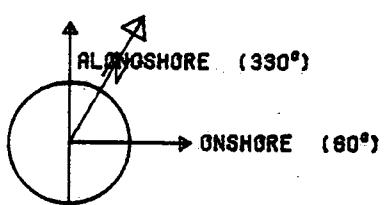


MOORING: 6 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



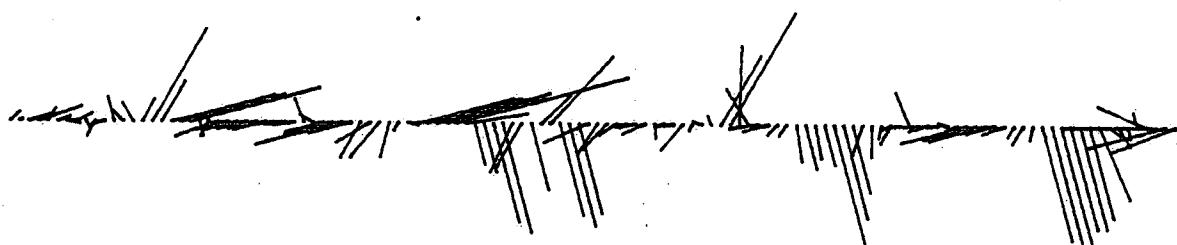
* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: OCT 1976



WINDSPEED²

0 40 M²/SEC²

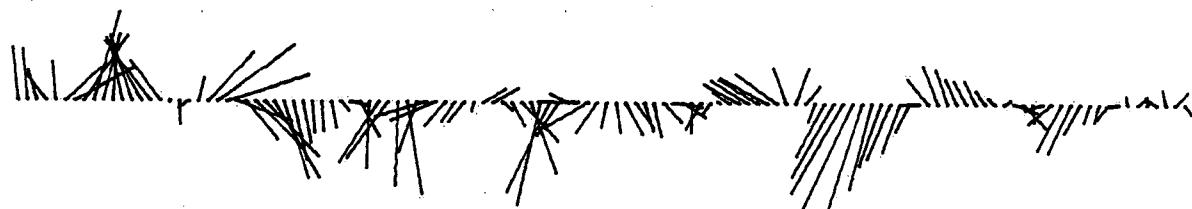


FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

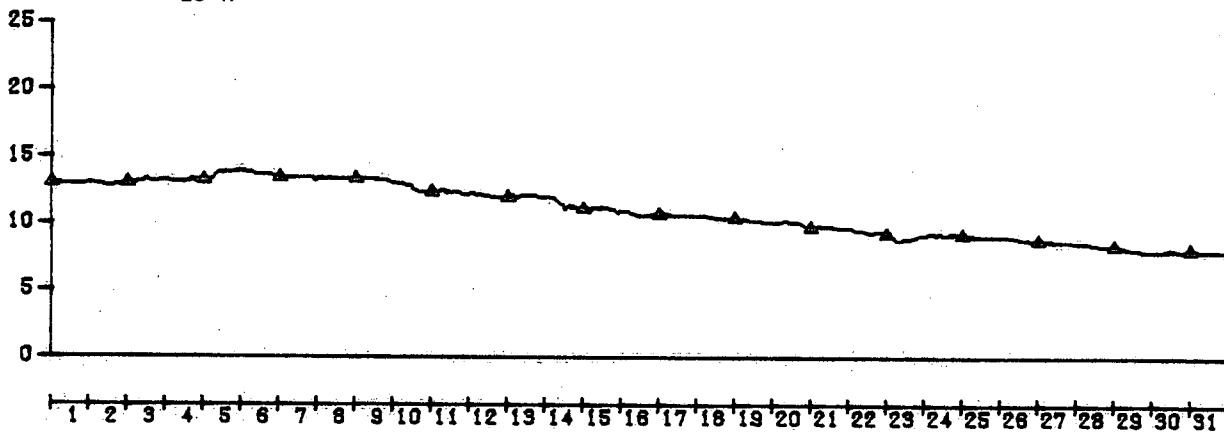
DEPTH: M

DEPTH: 25 M

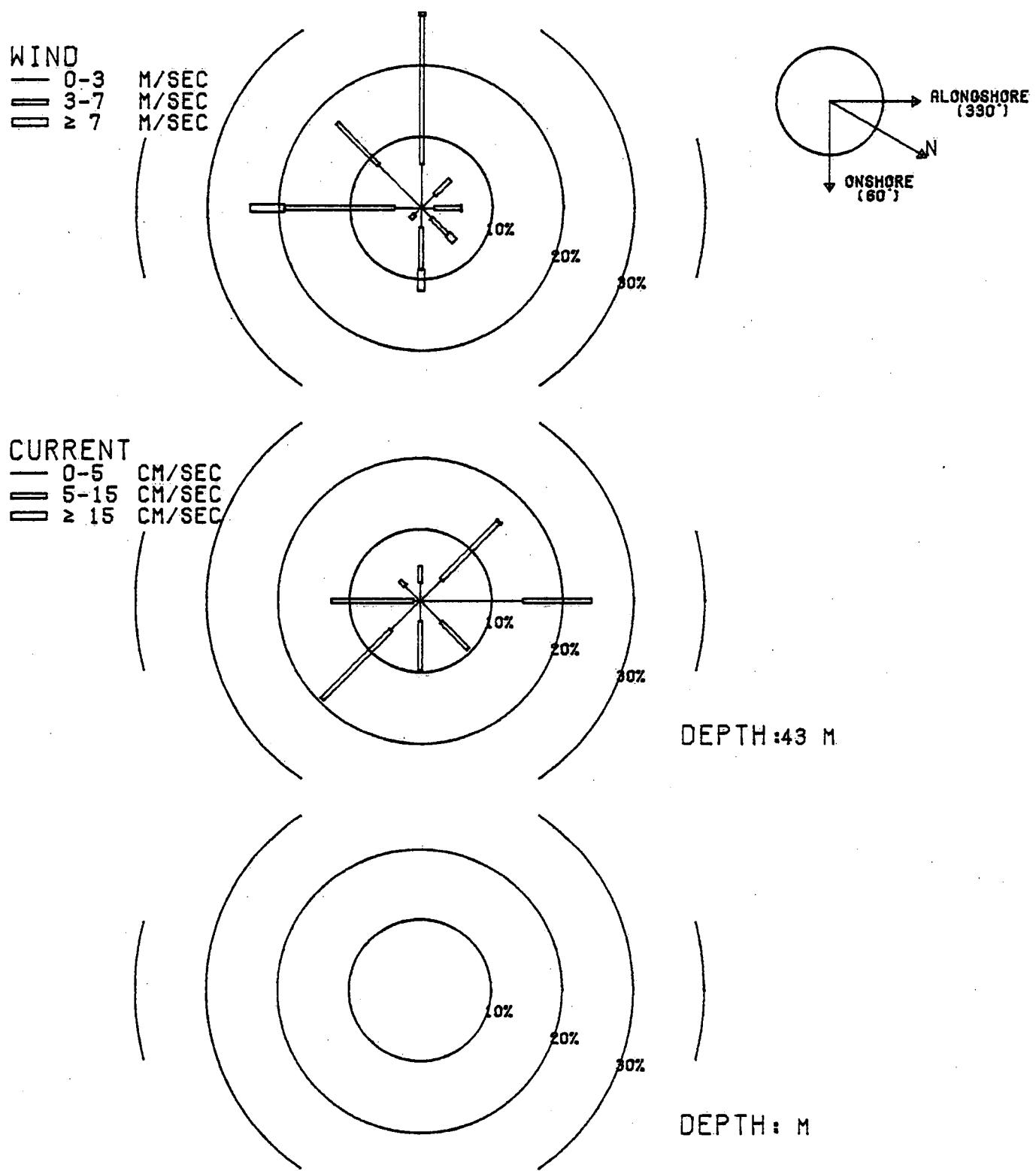


○ - M
▲ - 25 M

TEMPERATURE °C

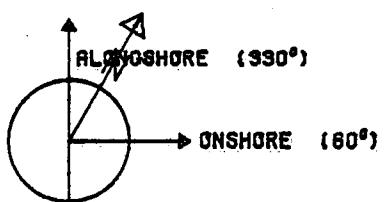


MOORING: 6 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



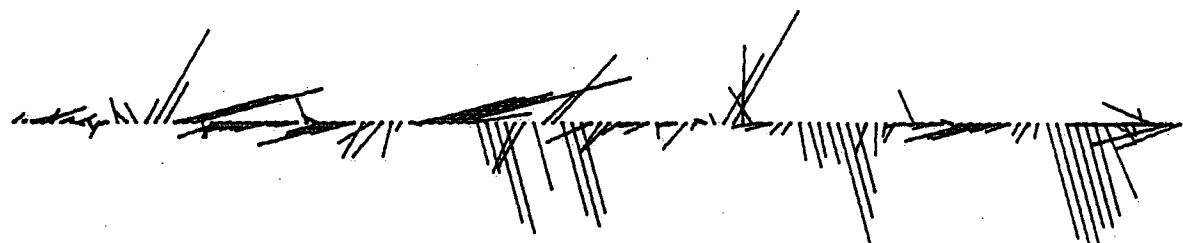
* DIRECTION TOWARDS

MOORING: 76-5C-06 DATE: OCT 1976



WINDSPEED²

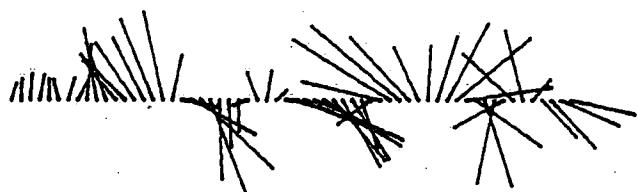
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

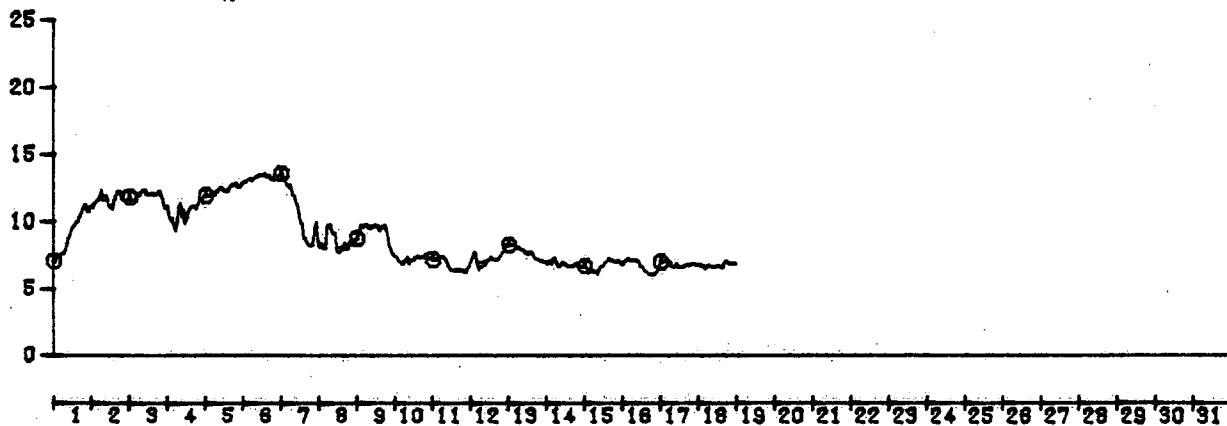
DEPTH: 43 M



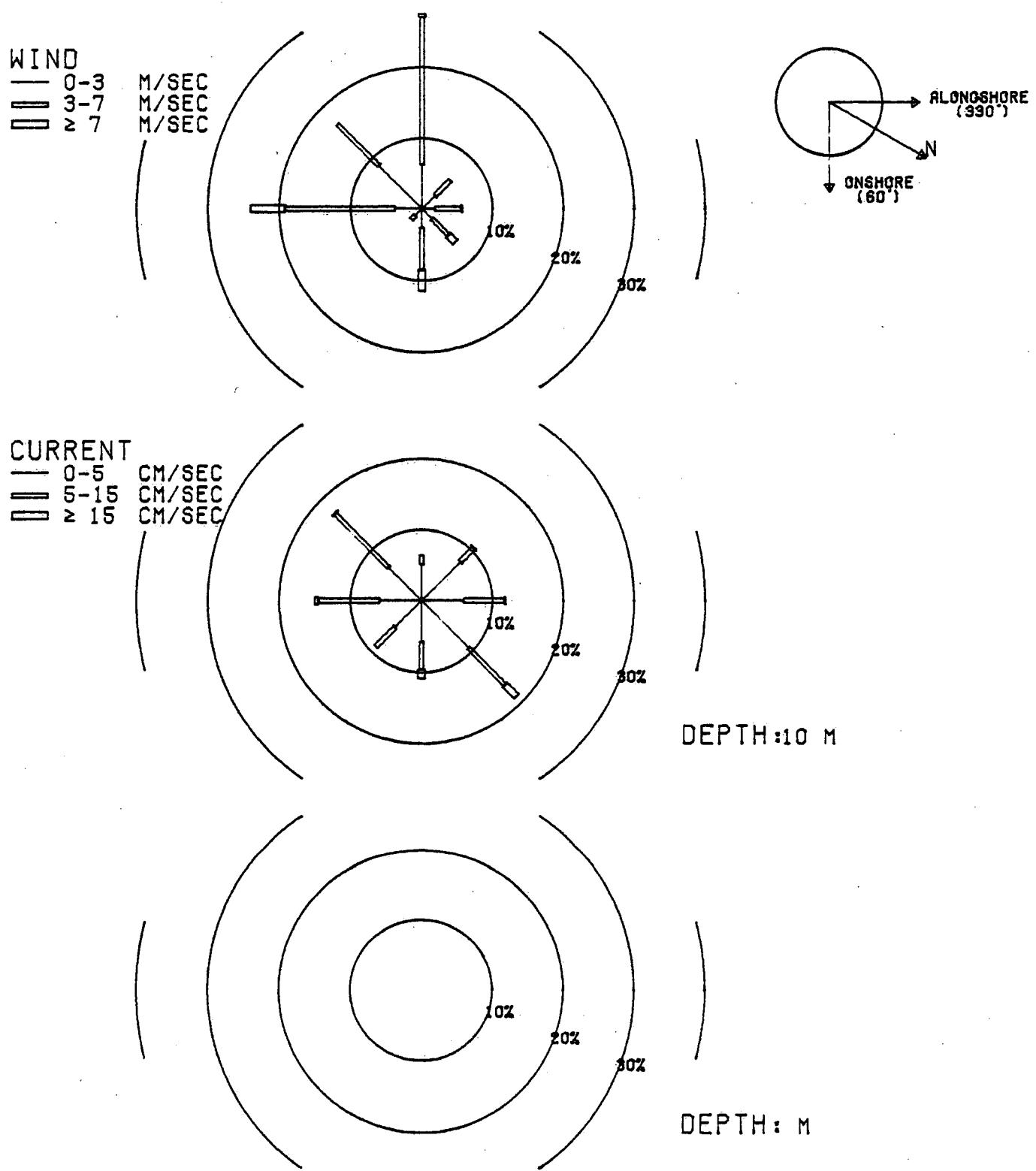
DEPTH: M

◎ - 43 M
△ - M

TEMPERATURE °C

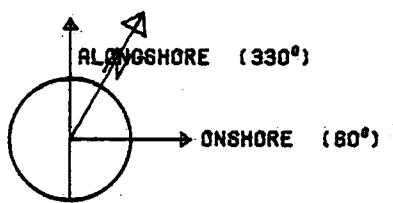


MOORING: 7 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



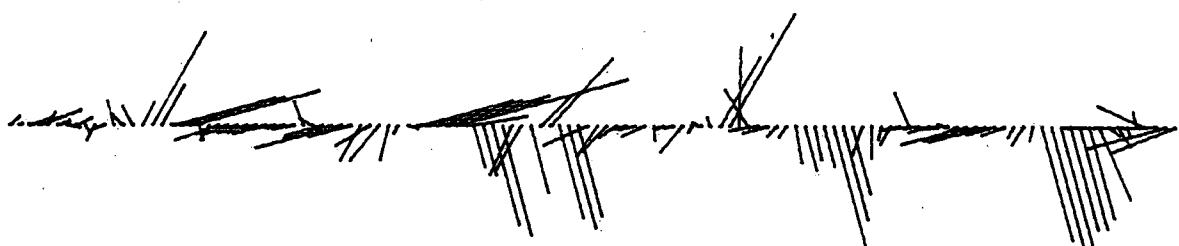
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: OCT 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

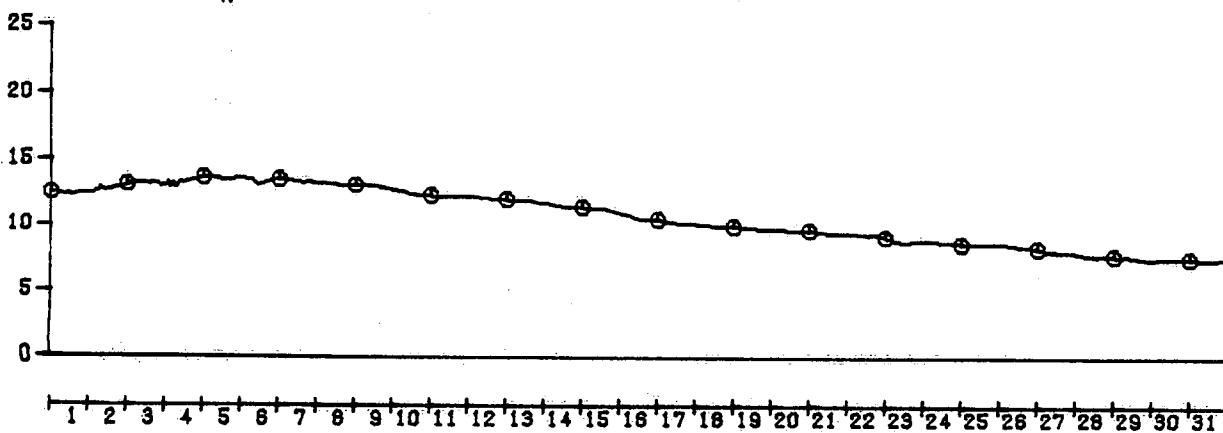
DEPTH: 10 M



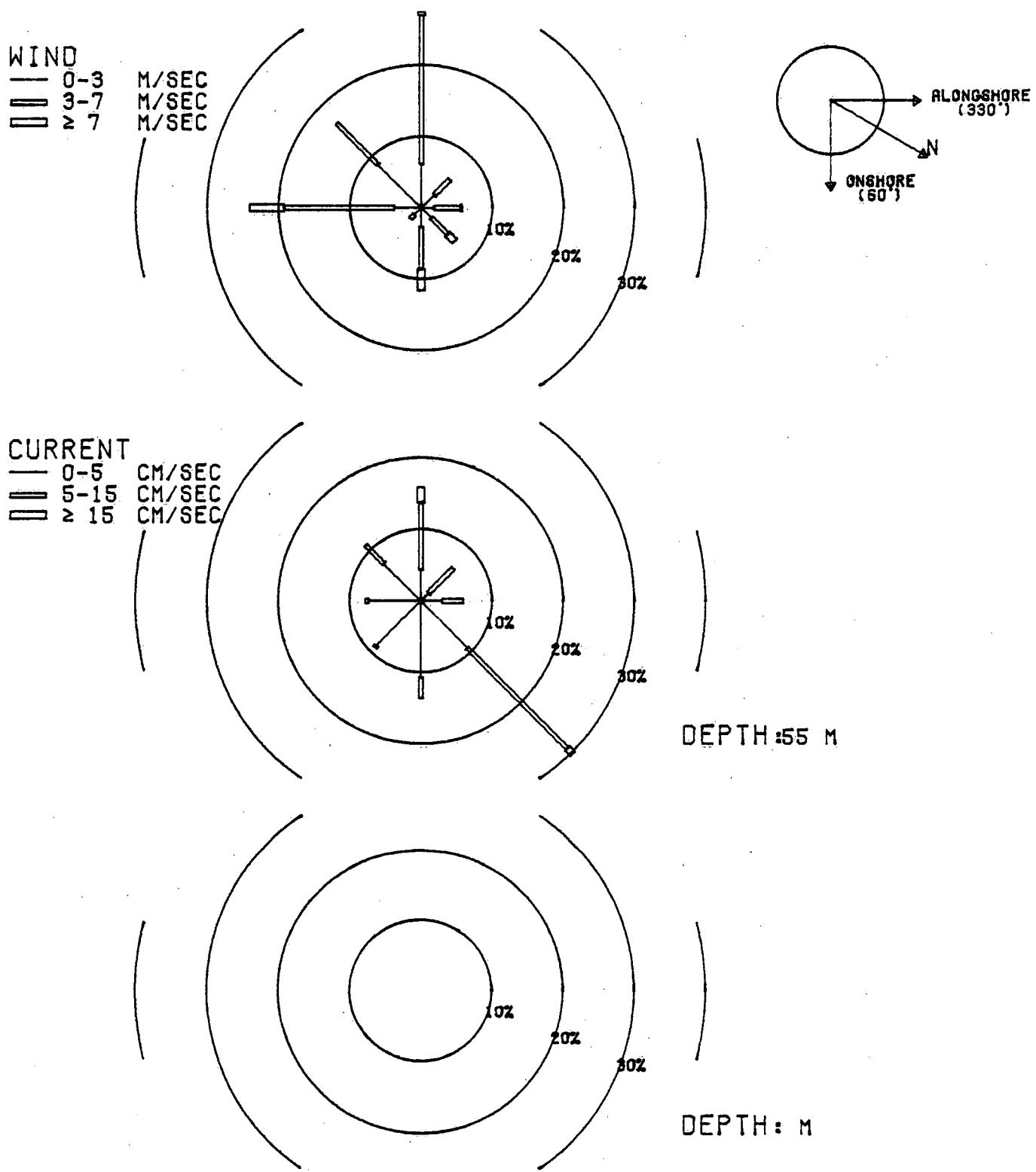
DEPTH: M

○ - 10 M
△ - M

TEMPERATURE °C

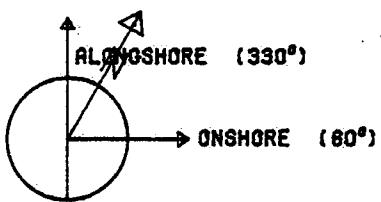


MOORING: 7 DATE: OCT 1976
MONTHLY SUMMARY: WIND AND CURRENT*



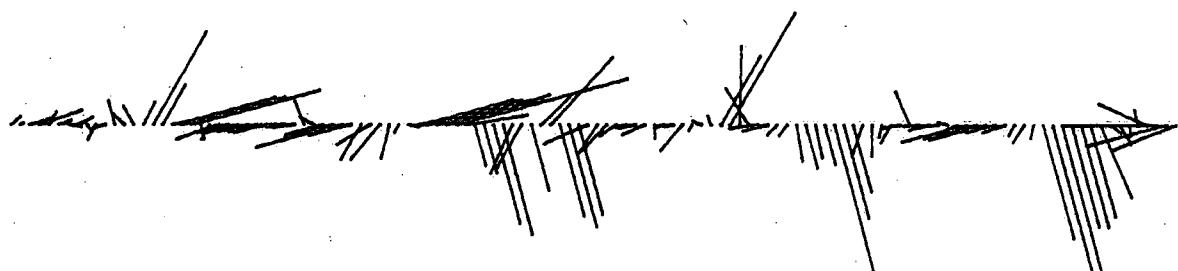
* DIRECTION TOWARDS

MOORING: 76-5C-07 DATE: OCT 1976



WINDSPEED²

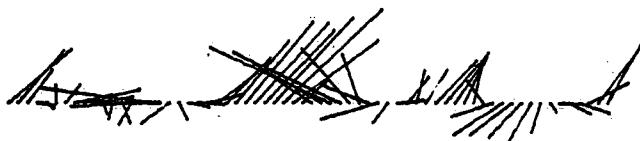
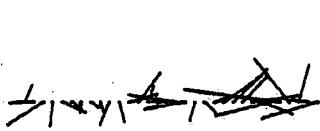
0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

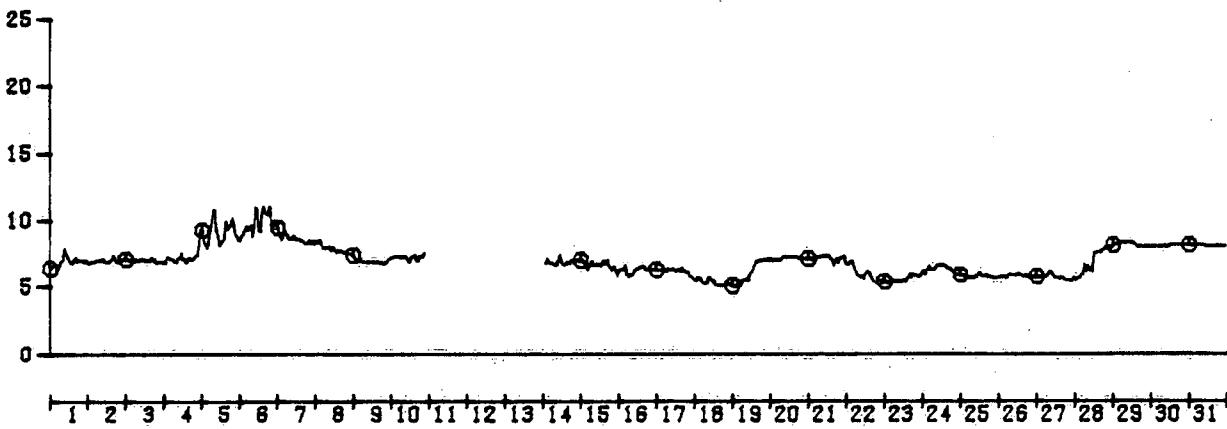
DEPTH: 55 M



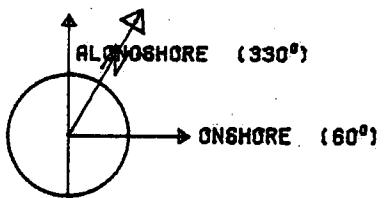
DEPTH: M

○ - 55 M
△ - M

TEMPERATURE °C



MOORING: 76-5C-03 DATE: NOV 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 GPH)

0 10 CM/SEC

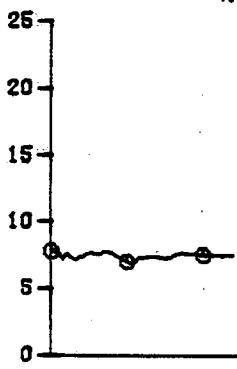
DEPTH: 10 M



DEPTH: M

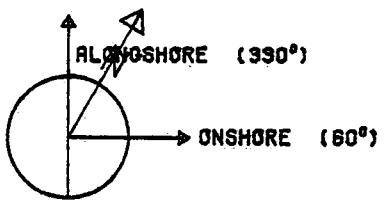
○ - 10 M
△ - M

TEMPERATURE °C



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

MOORING: 76-5C-05 DATE: NOV 1976



WINDSPEED²

0 40 M²/SEC²



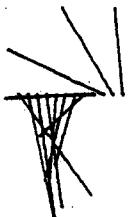
FILTERED CURRENT (0.0 TO 0.05 CPH)

0 10 CM/SEC

DEPTH: 10 M

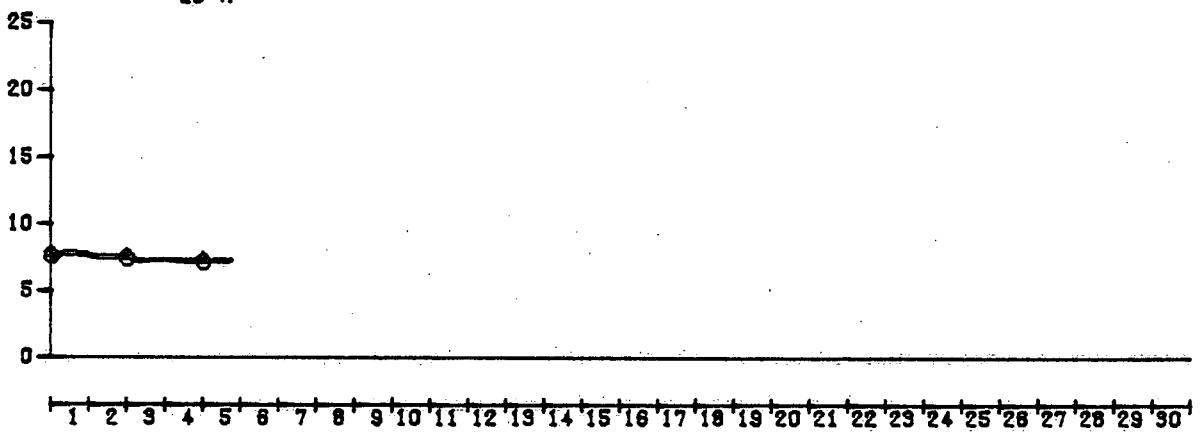


DEPTH: 25 M

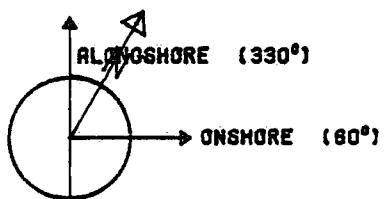


○ - 10 M
△ - 25 M

TEMPERATURE °C

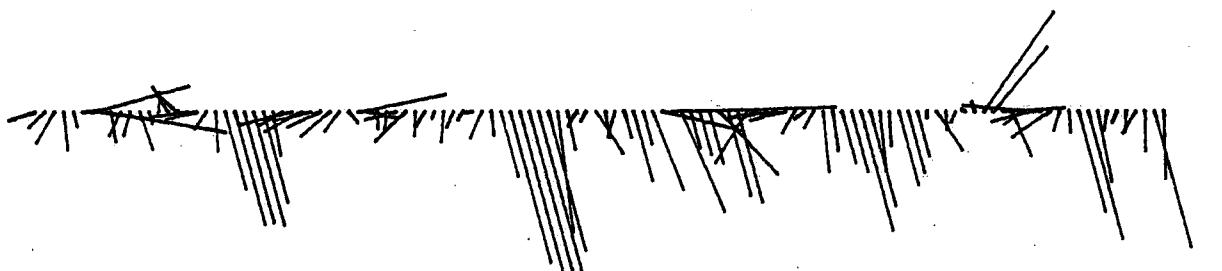


MOORING: 76-5C-05 DATE: NOV 1976



WINDSPEED²

0 40 M²/SEC²



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

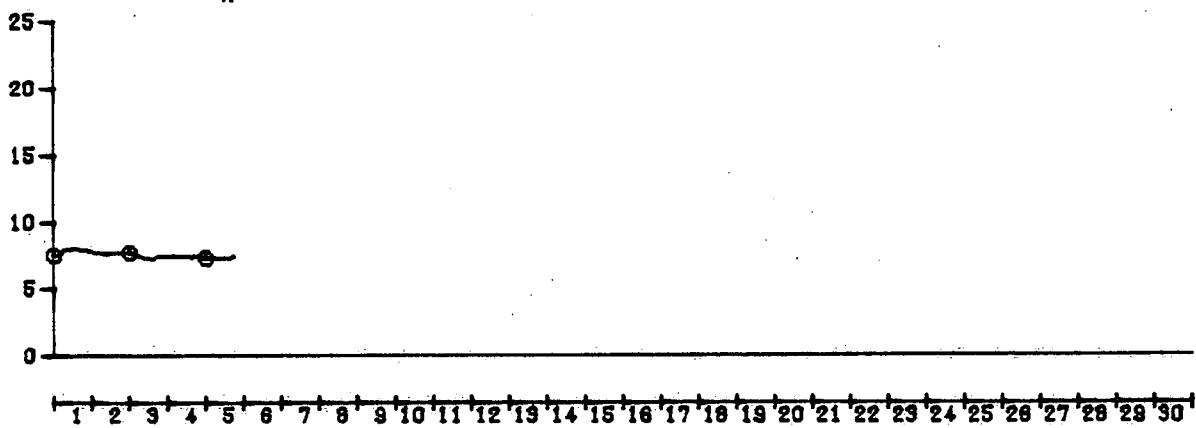
DEPTH: 36 M



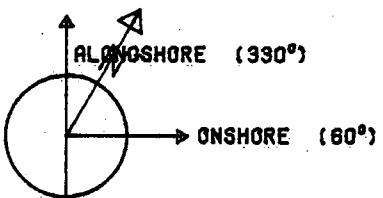
DEPTH: M

○ - 36 M
△ - M

TEMPERATURE °C



MOORING: 76-5C-06 DATE: NOV 1976



WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

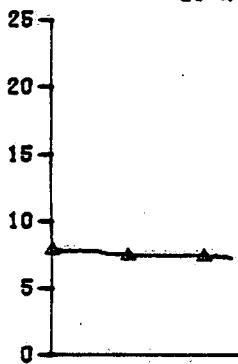
DEPTH: M

DEPTH: 25 M



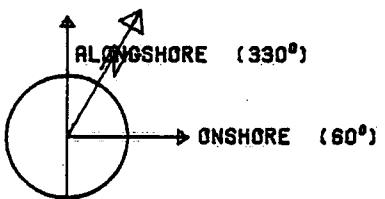
○ - M
△ - 25 M

TEMPERATURE °C



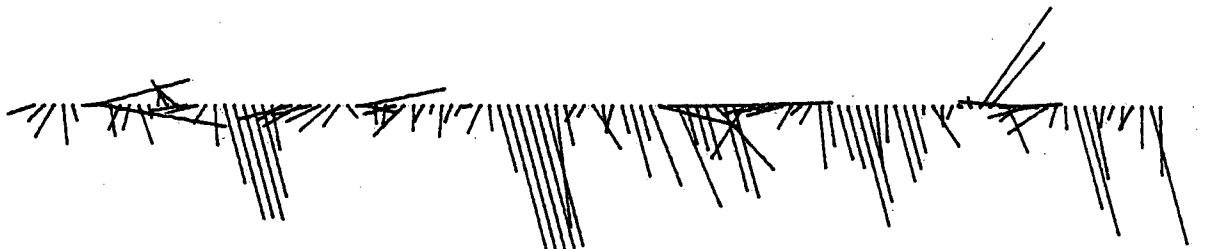
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

MOORING: 76-5C-07 DATE: NOV 1976



WINDSPEED²

0 40 M²/SEC²



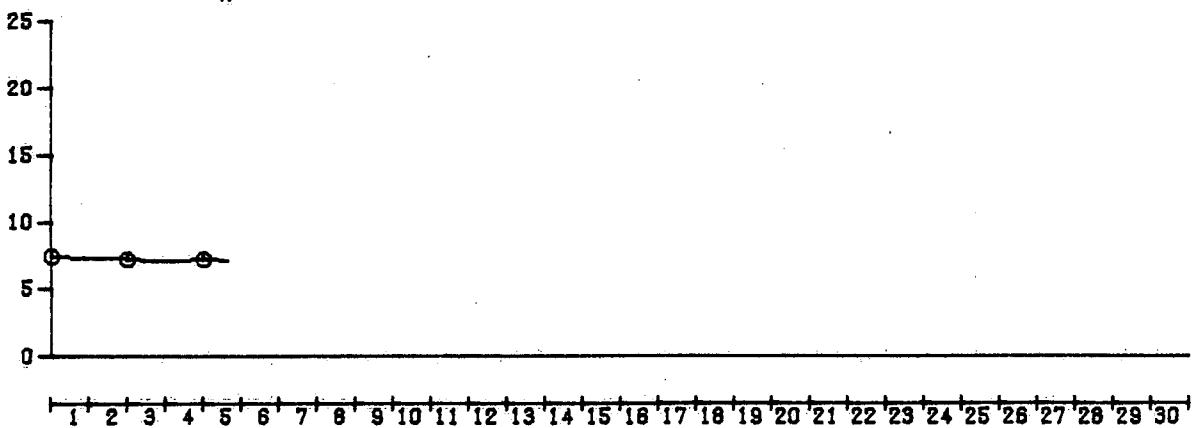
FILTERED CURRENT (0.0 TO 0.05 CPH) 0 10 CM/SEC

DEPTH: 10 M

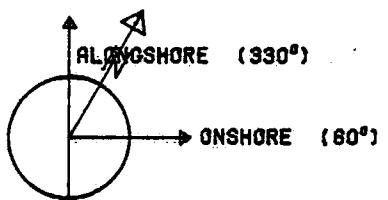
DEPTH: M

○ - 10 M
▲ - M

TEMPERATURE °C

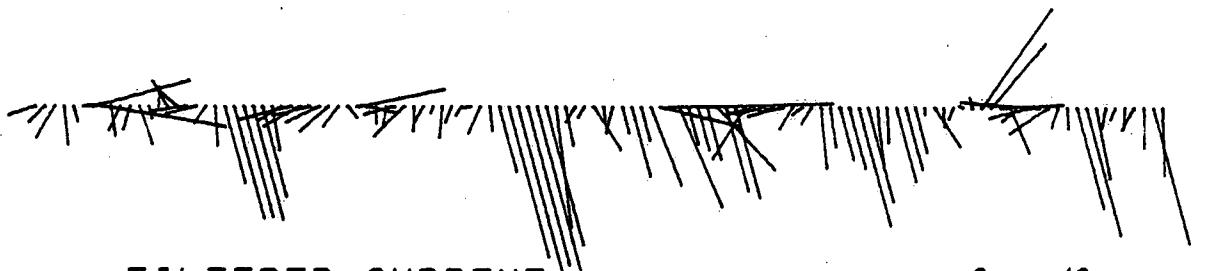


MOORING: 76-5C-07 DATE: NOV 1976



WINDSPEED²

0 M^2/SEC^2



FILTERED CURRENT (0.0 TO 0.05 CPH) 0 CM/SEC

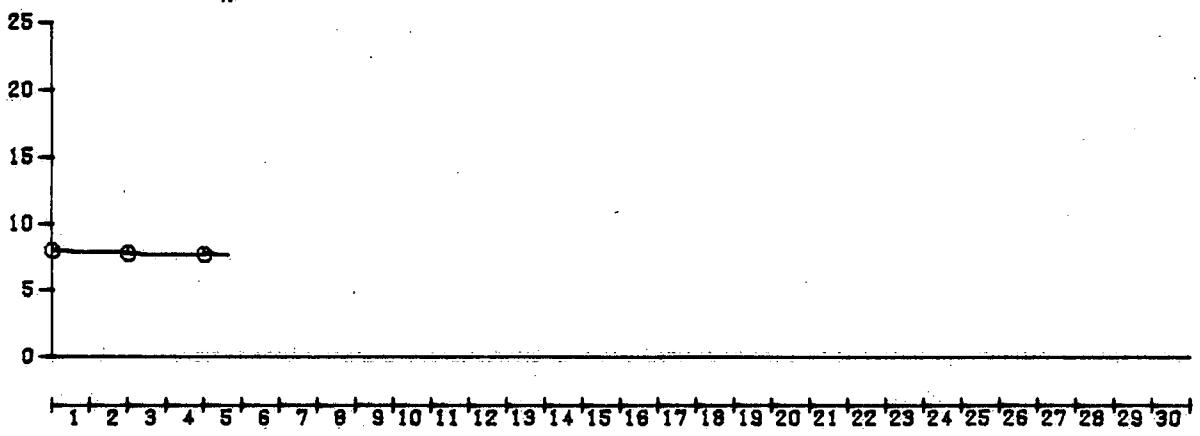
DEPTH: 55 M



DEPTH: M

Φ = 55 M
△ = M

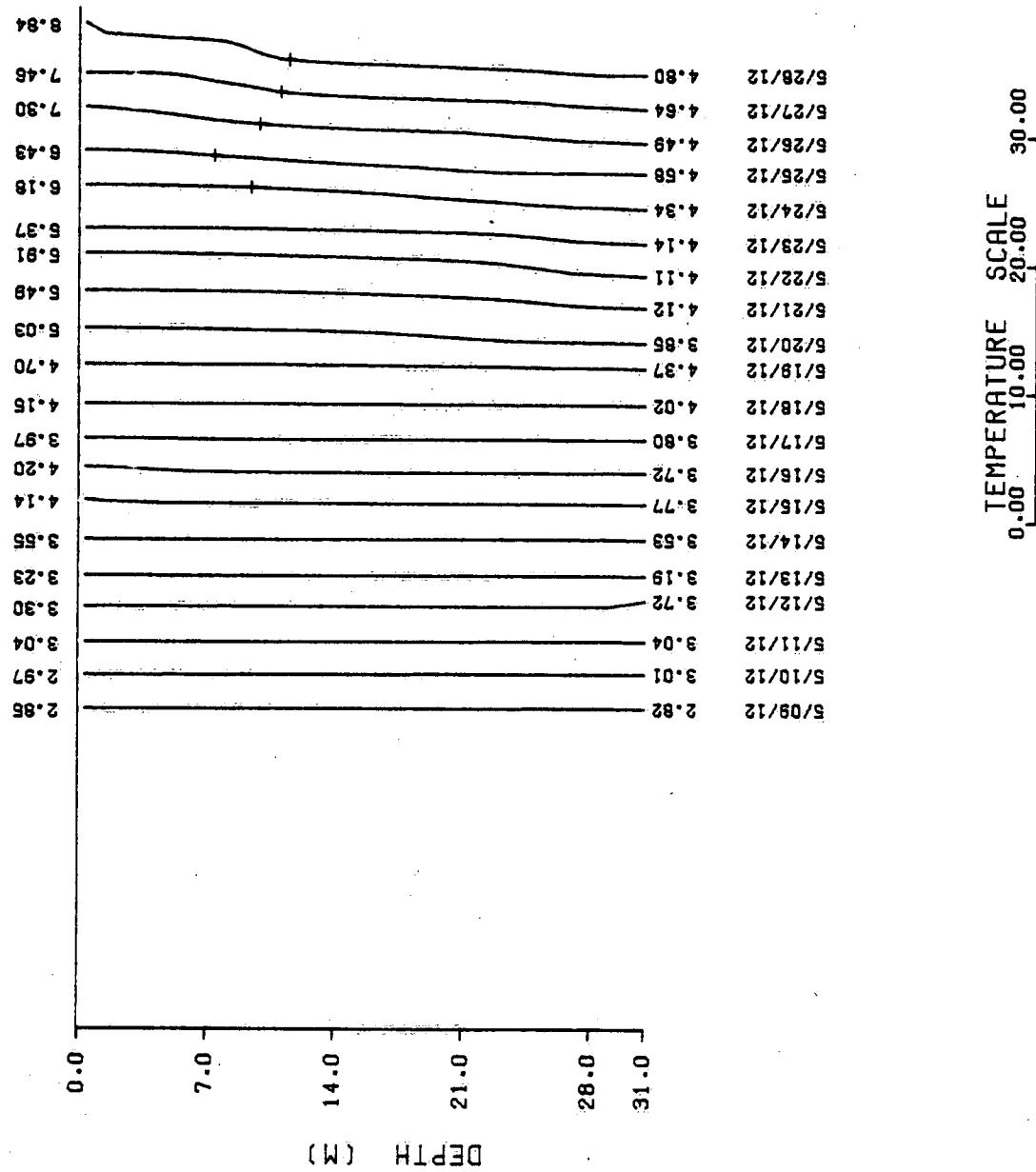
TEMPERATURE °C

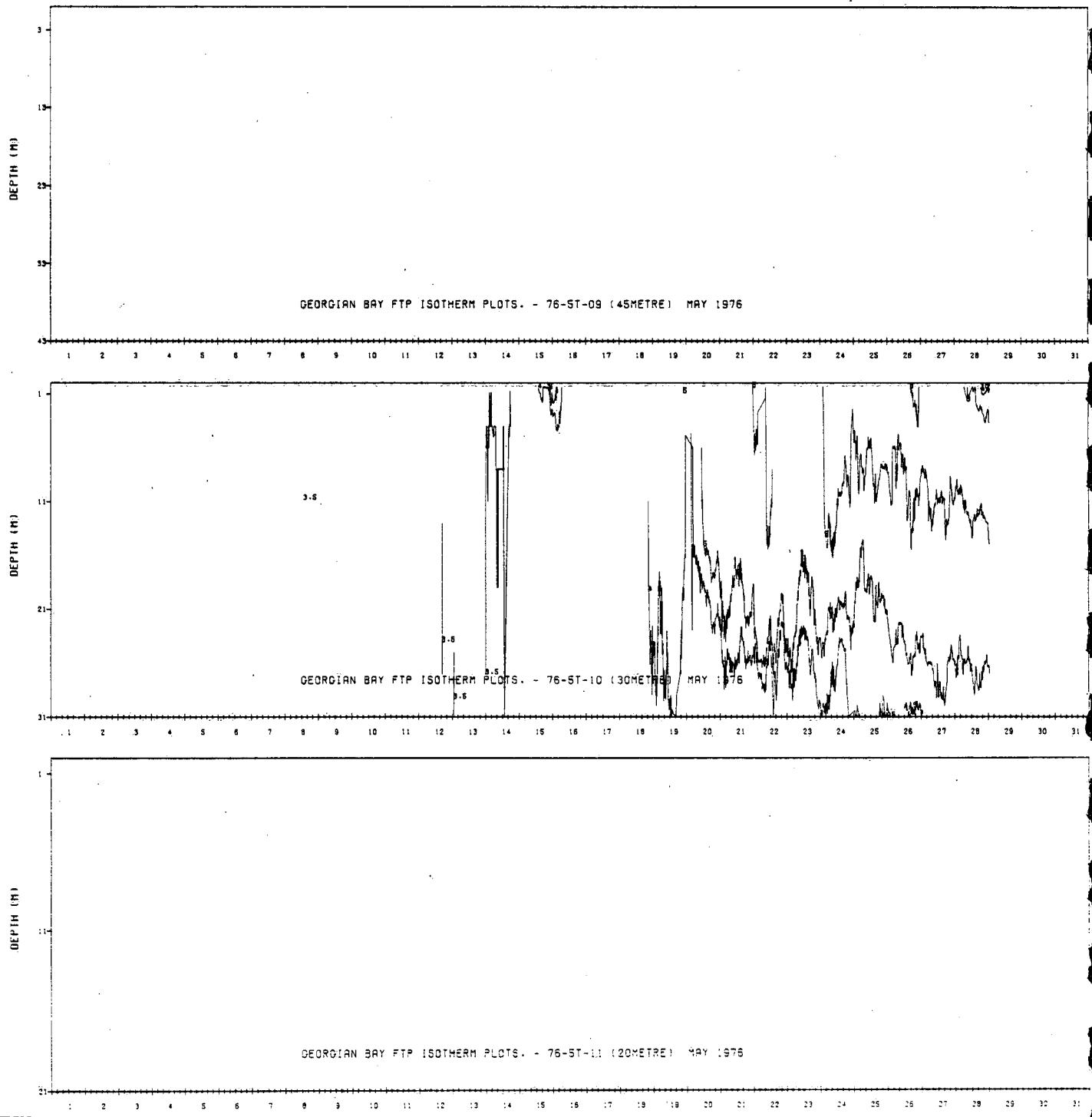


APPENDIX D: FTP AND CATS TEMPERATURE DISPLAYS

DAILY AVERAGED TEMPERATURE PROFILES

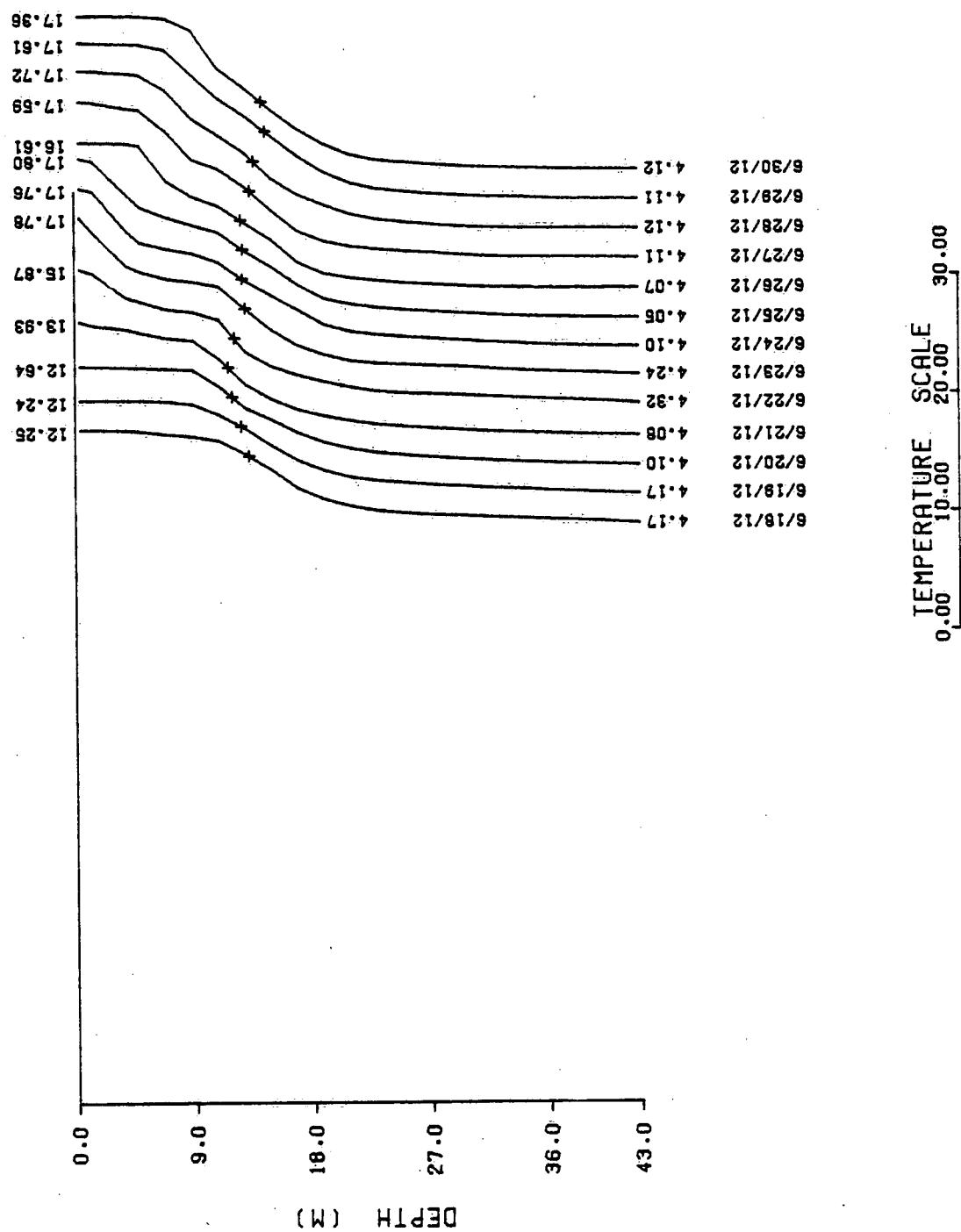
DATE - MAY 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-5T-10
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 6 DEGREE MARKED WITH +





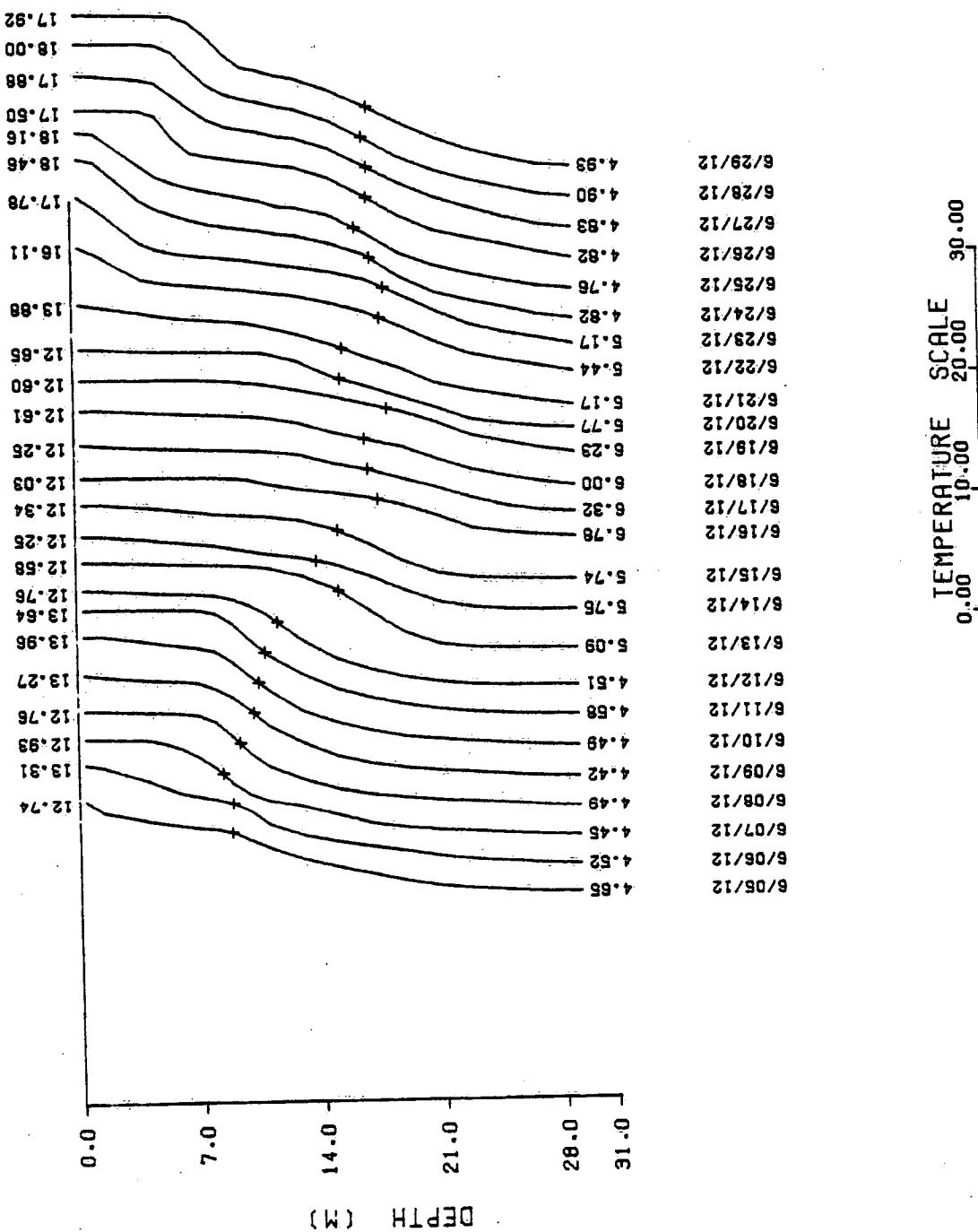
DAILY AVERAGED TEMPERATURE PROFILES

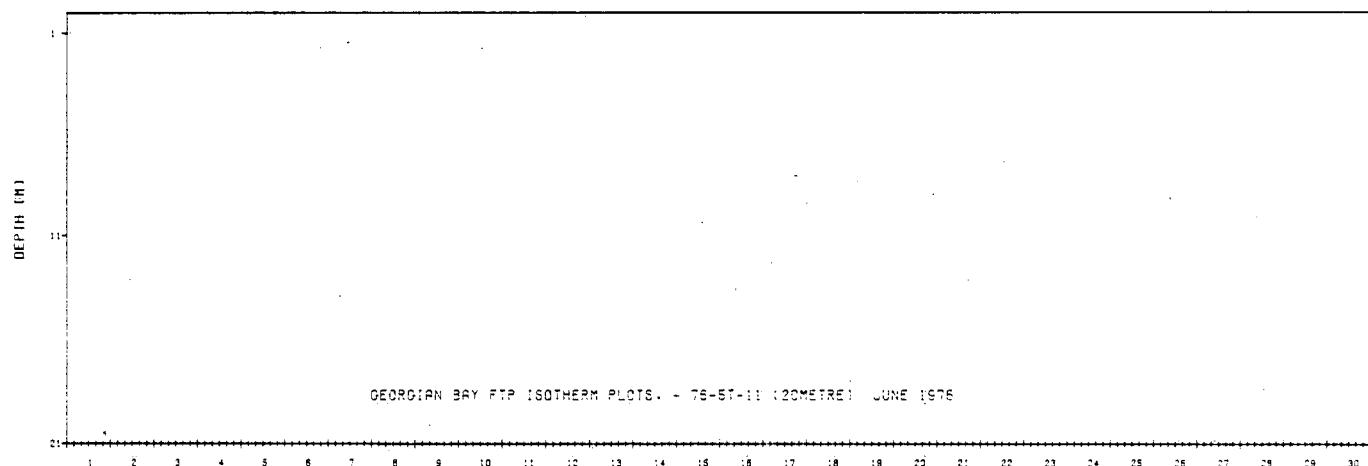
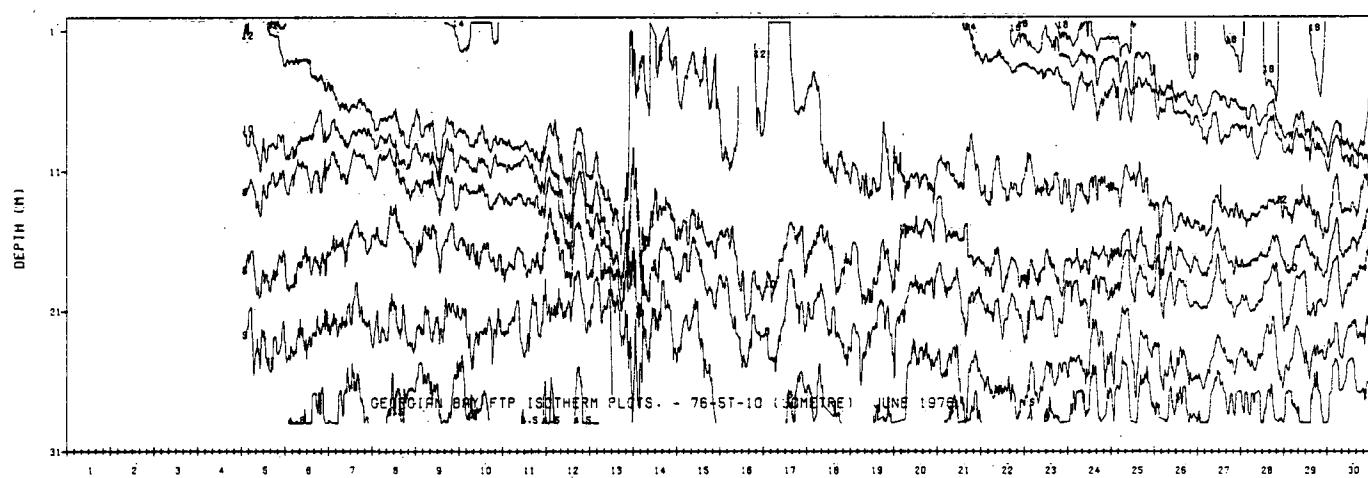
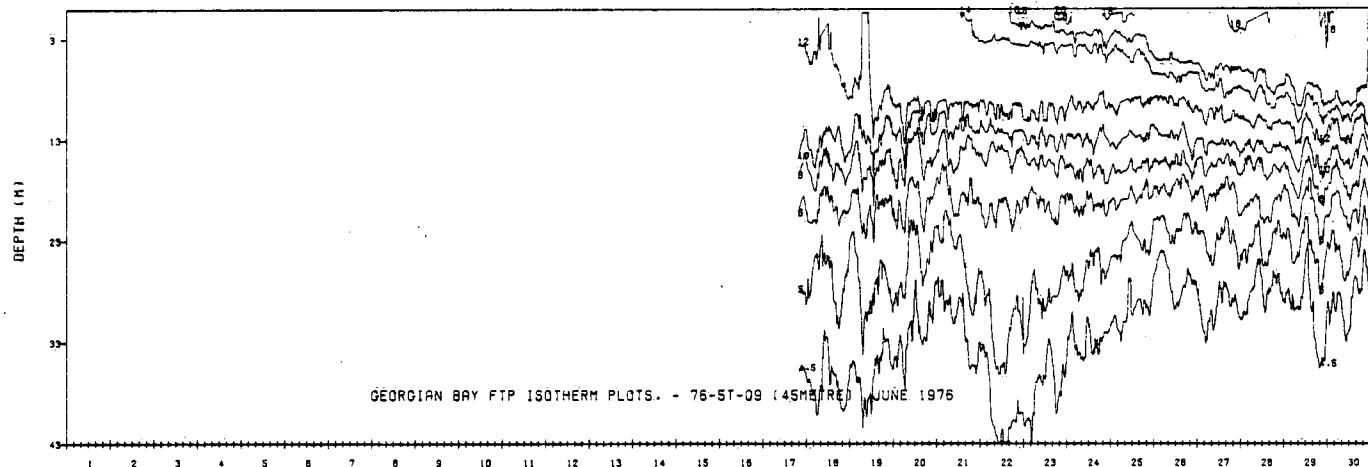
DATE	- JUNE 1976
LOCATION	- GEORGIAN BAY (BYNG INLET)
MOORING	- 76-51-09
INSTRUMENT	- FIXED TEMPERATURE PROFILER
ISOTHERM	- 10 DEGREE MARKED WITH +



DAILY AVERAGED TEMPERATURE PROFILES

DATE	- JUNE 1976
LOCATION	- GEORGIAN BAY (BYNG INLET)
MOORING	- 76-5T-10
INSTRUMENT	- FIXED TEMPERATURE PROFILER
IOTHERM	- 10 DEGREE MARKED WITH +

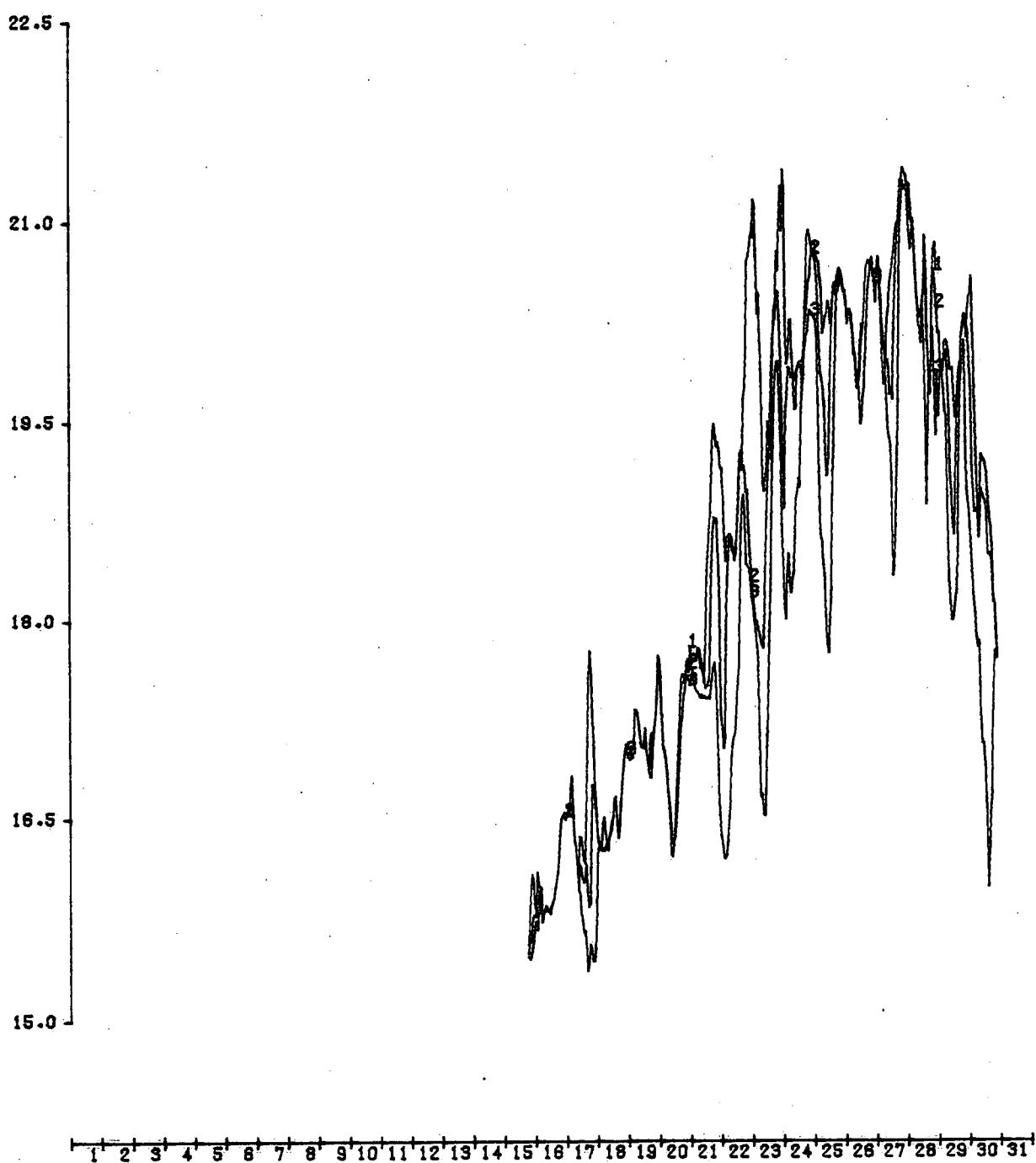




MOORING: 76-5S-12 DATE: JUNE 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS	1	0.3 M	6	M
	2	2.0 M	7	M
	3	3.8 M	8	M
	4	M	9	M
	5	M	10	M

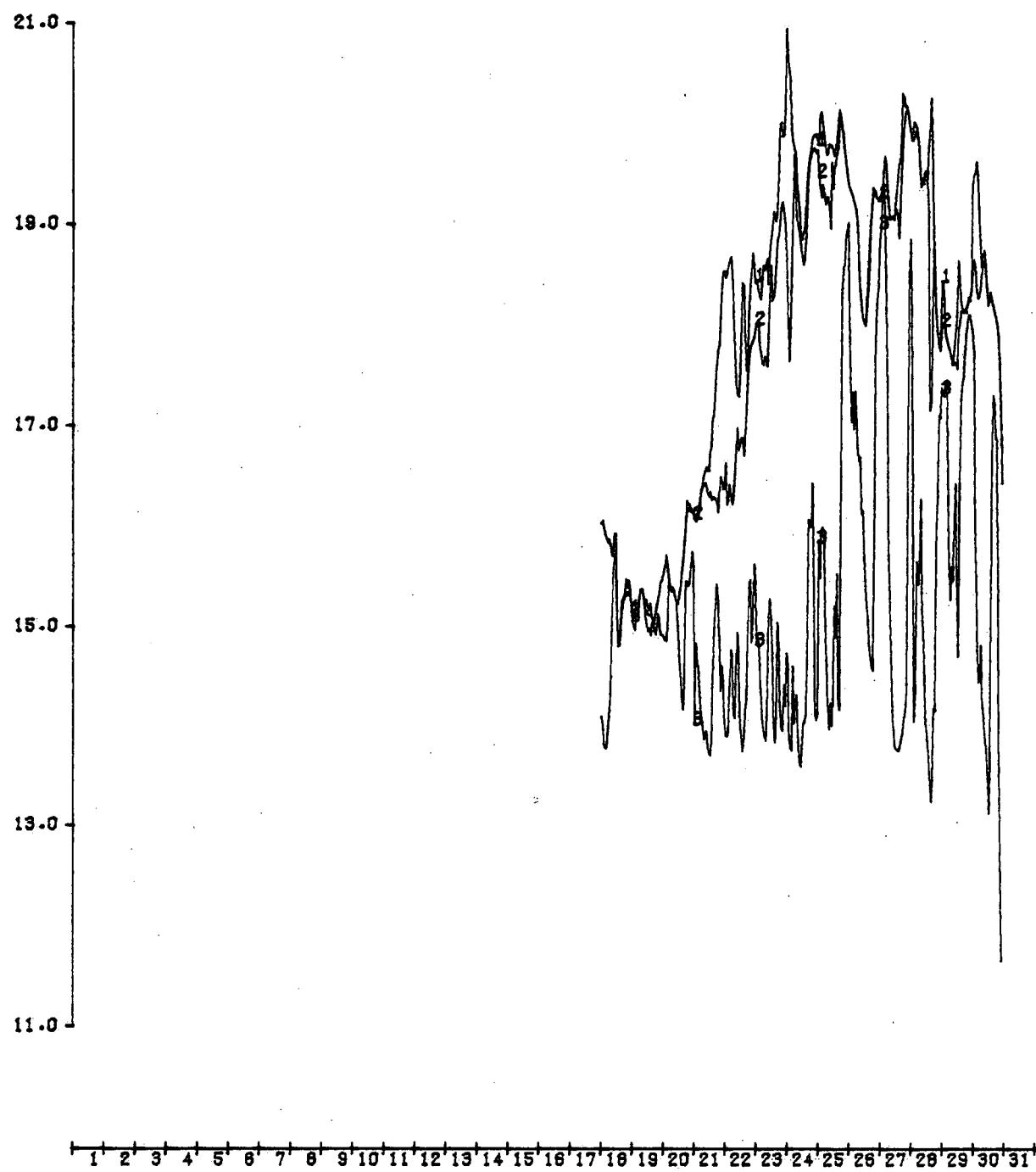


MOORING: 76-5S-13 DATE: JUNE 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS

1	0.3 M	6	M
2	3.5 M	7	M
3	6.7 M	8	M
4	M	9	M
5	M	10	M

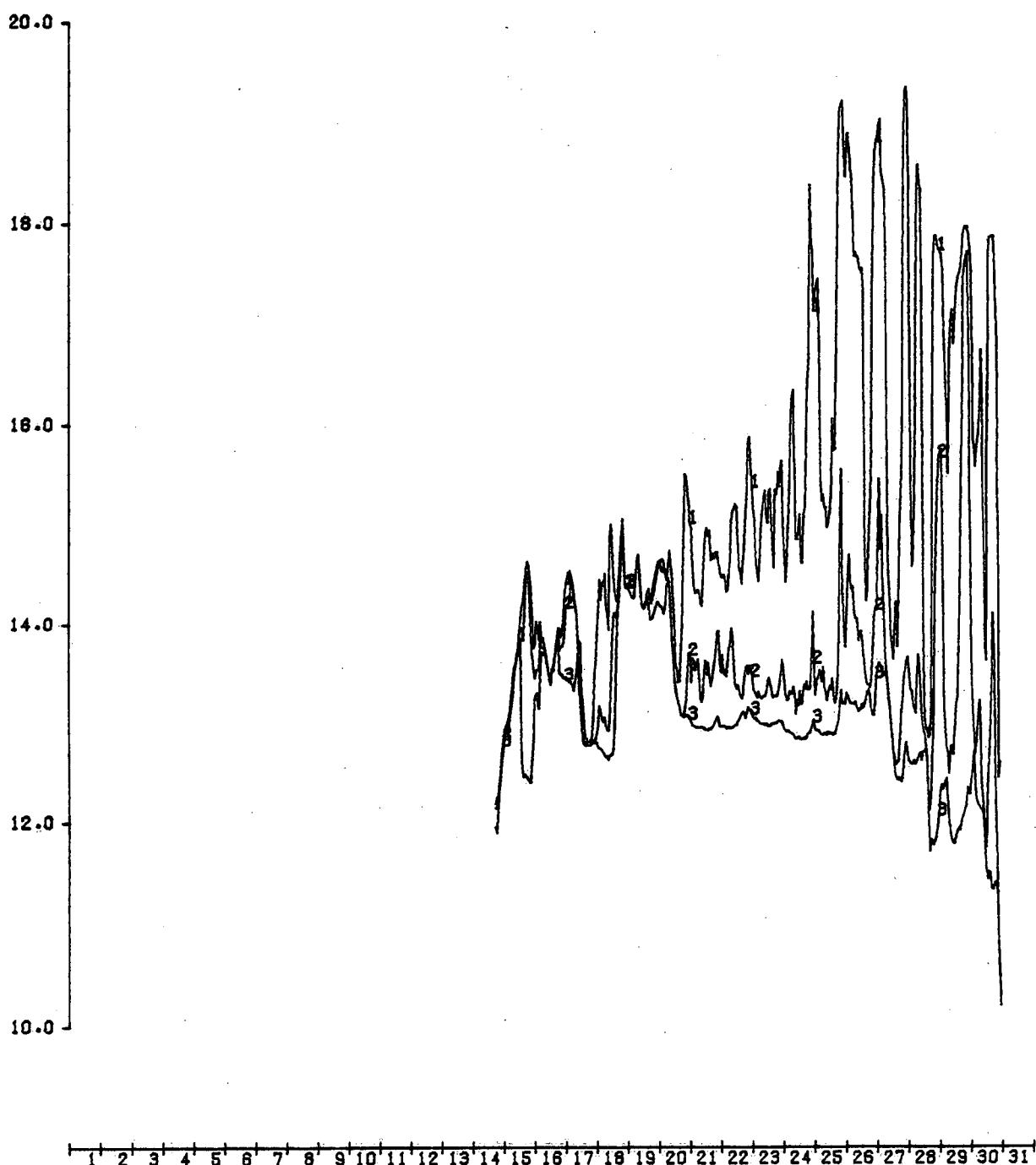


MOORING: 76-5S-14 DATE: JUNE 1976

WATER TEMPERATURE °C

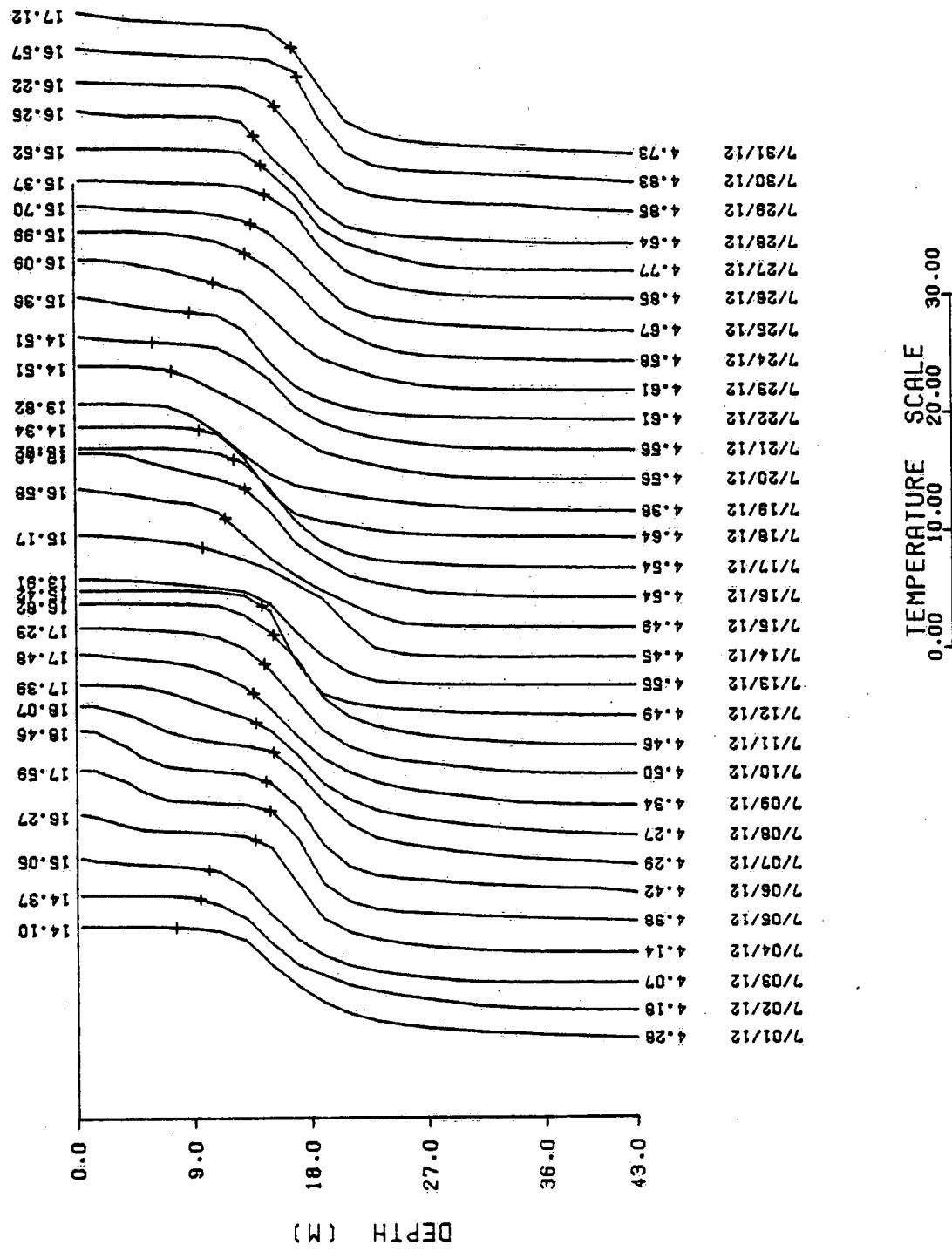
CONSTANT DEPTHS

1	5.6 M	6	M
2	8.0 M	7	M
3	11.0 M	8	M
4	M	9	M
5	M	10	M



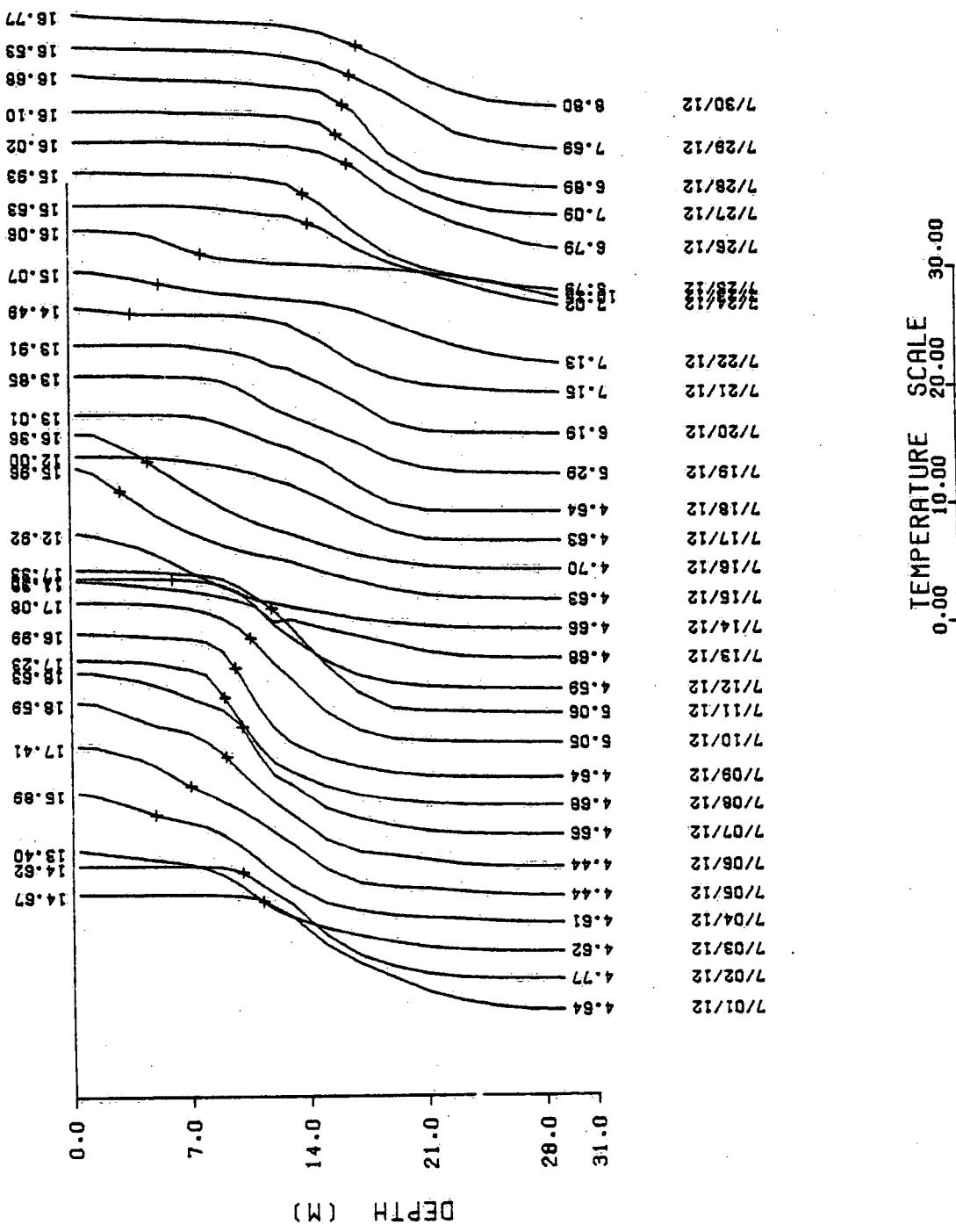
DAILY AVERAGED TEMPERATURE PROFILES

DATE - JULY 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-61-09
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 14 DEGREE MARKED WITH +



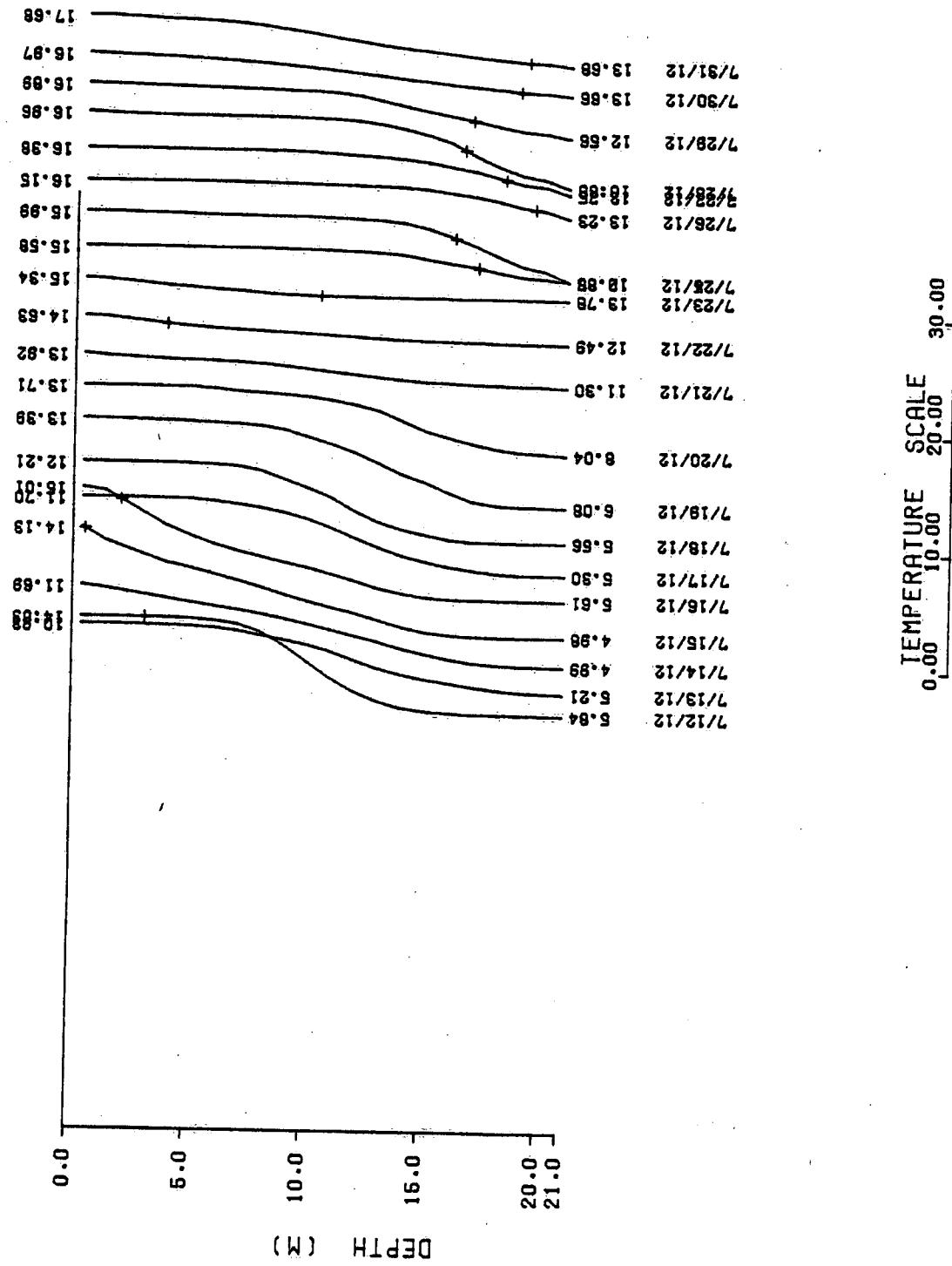
DAILY AVERAGED TEMPERATURE PROFILES

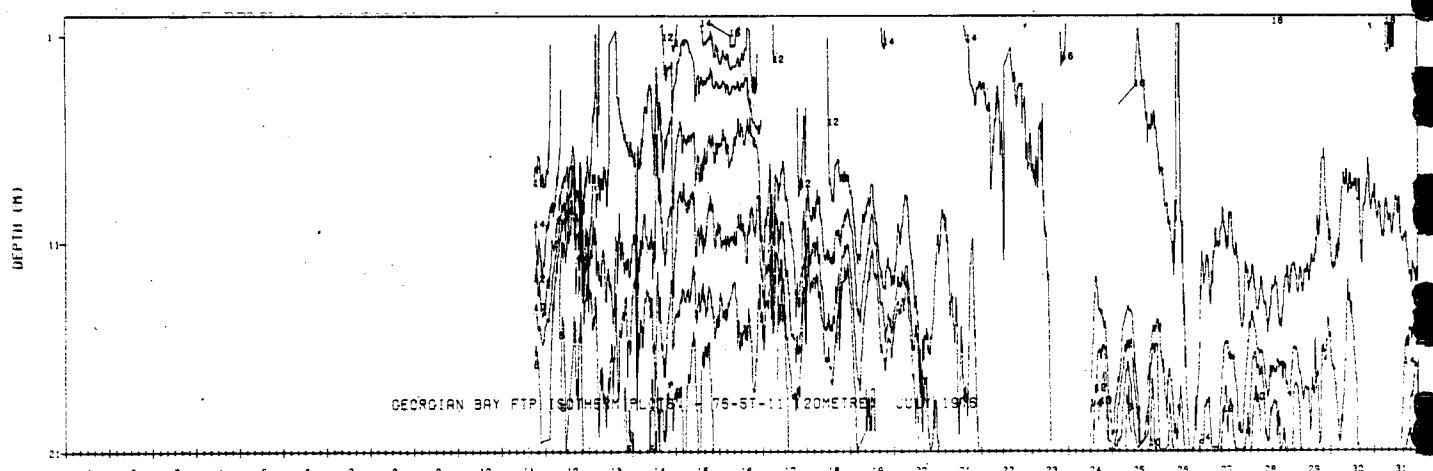
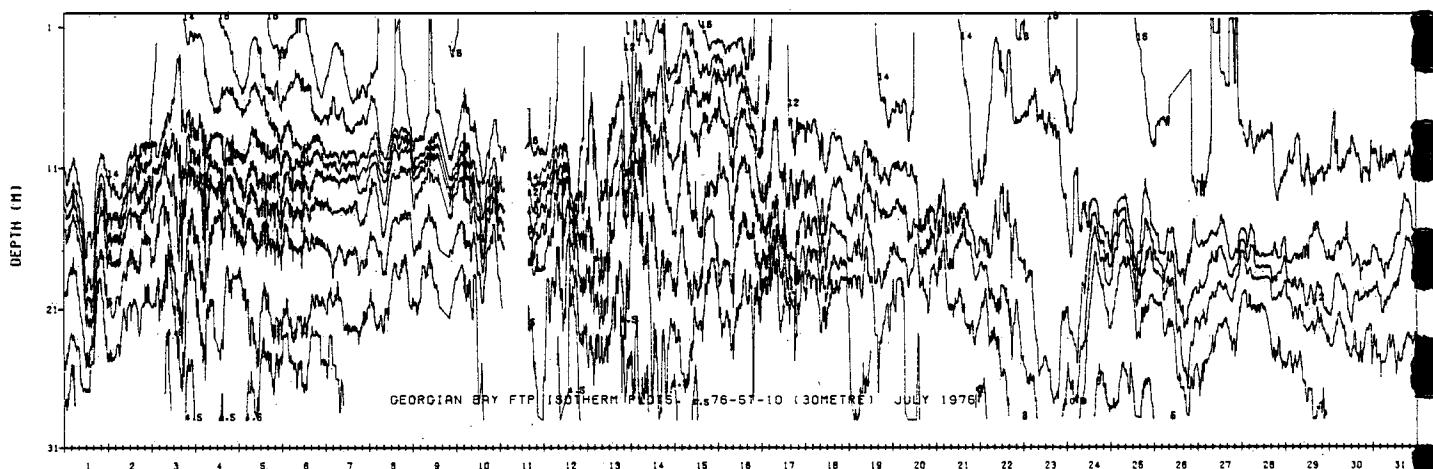
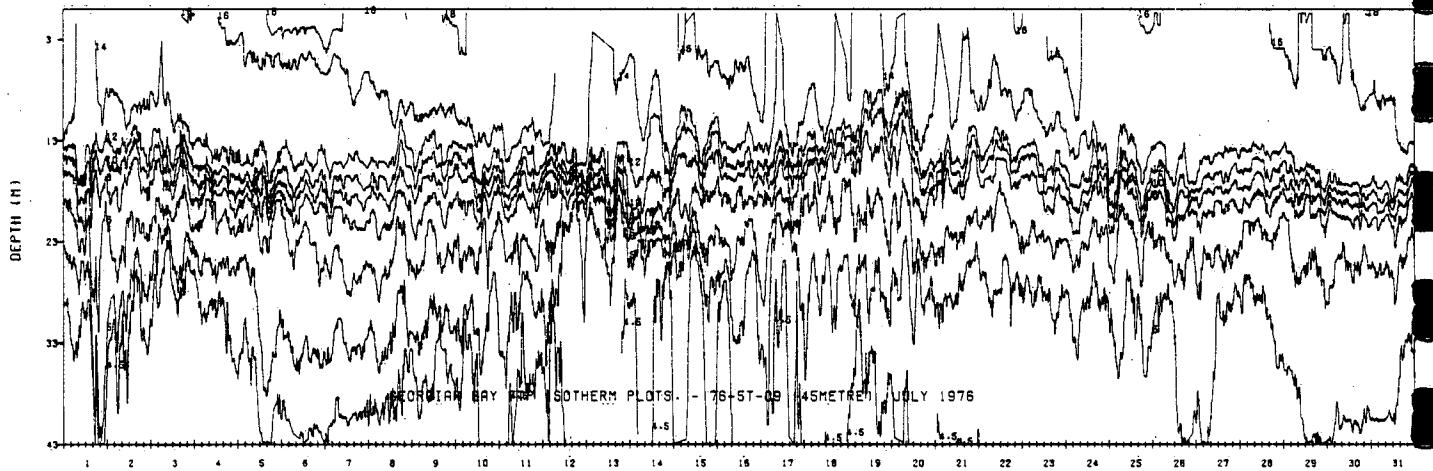
DATE - JULY 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-6T-10
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 14 DEGREE MARKED WITH +



DAILY AVERAGED TEMPERATURE PROFILES

DATE - JULY 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-ST-11
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 14 DEGREE MARKED WITH +



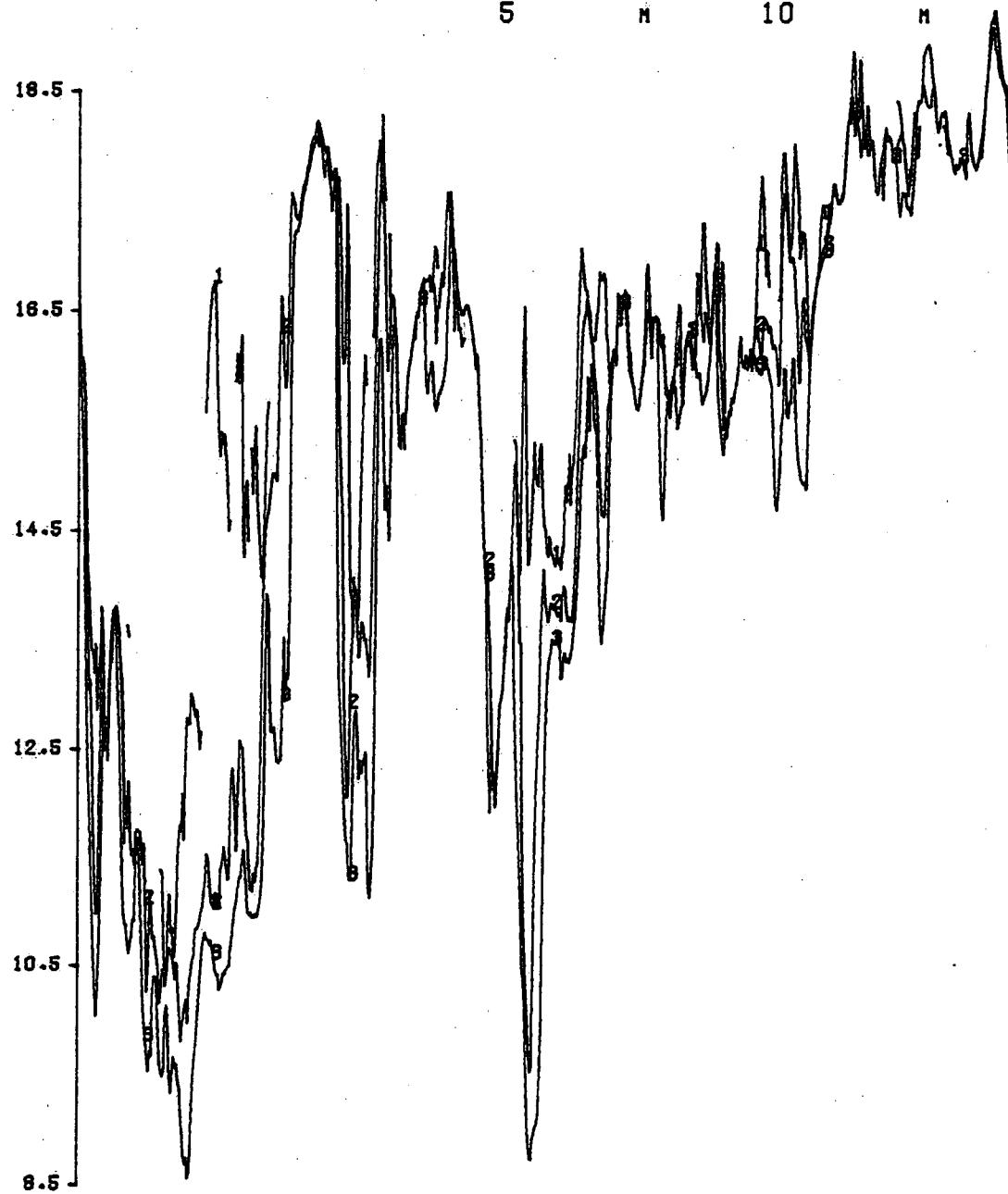


MOORING: 76-5S-12 DATE: JULY 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS

1	0.3 M	6	M
2	2.0 M	7	M
3	3.8 M	8	M
4	M	9	M
5	M	10	M



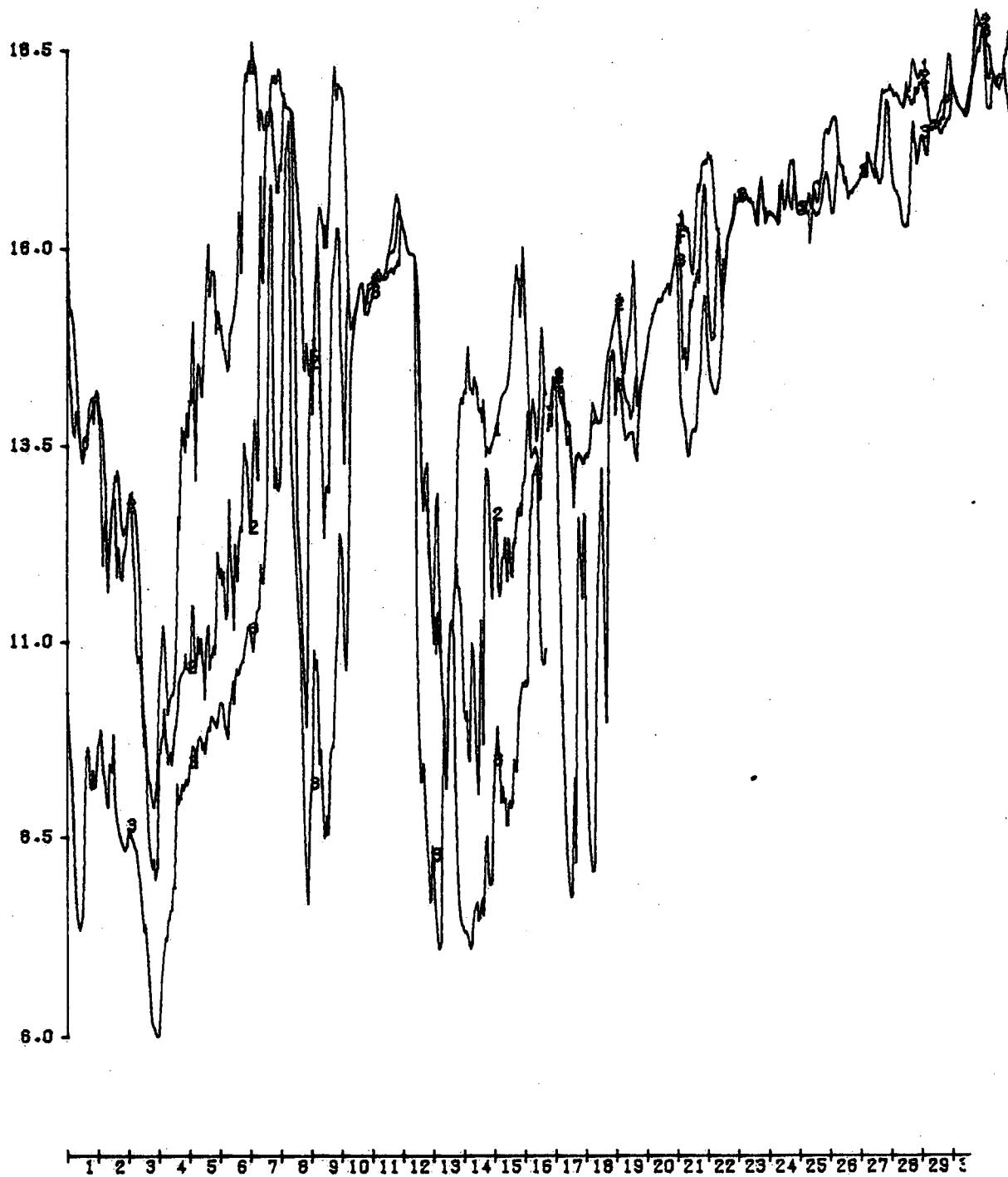
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

MOORING: 76-5S-13 DATE: JULY 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS

1	0.3 M	6	M
2	3.5 M	7	M
3	6.7 M	8	M
4	M	9	M
5	M	10	M

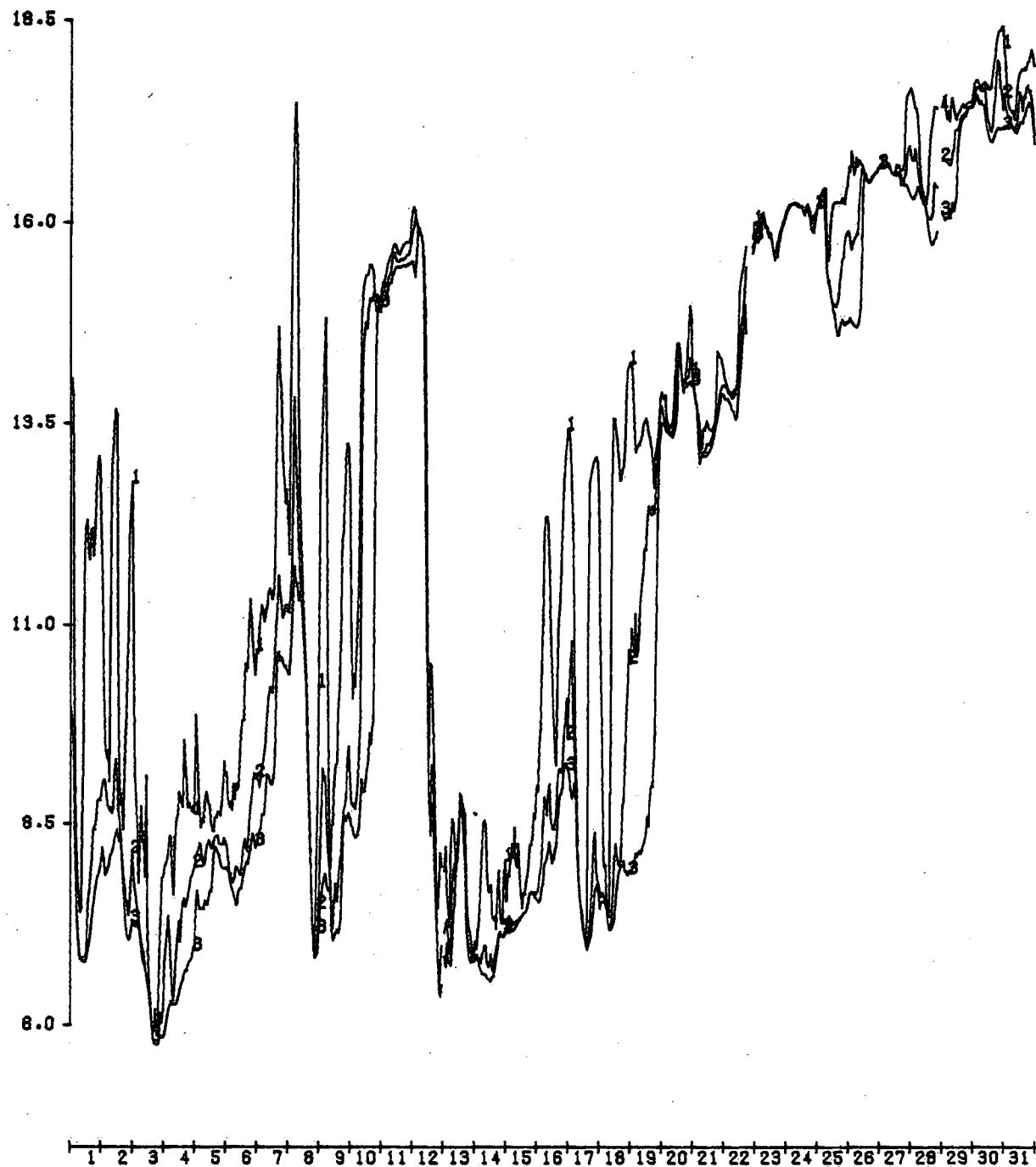


MOORING: 76-5S-14 DATE: JULY 1976

WATER TEMPERATURE °C

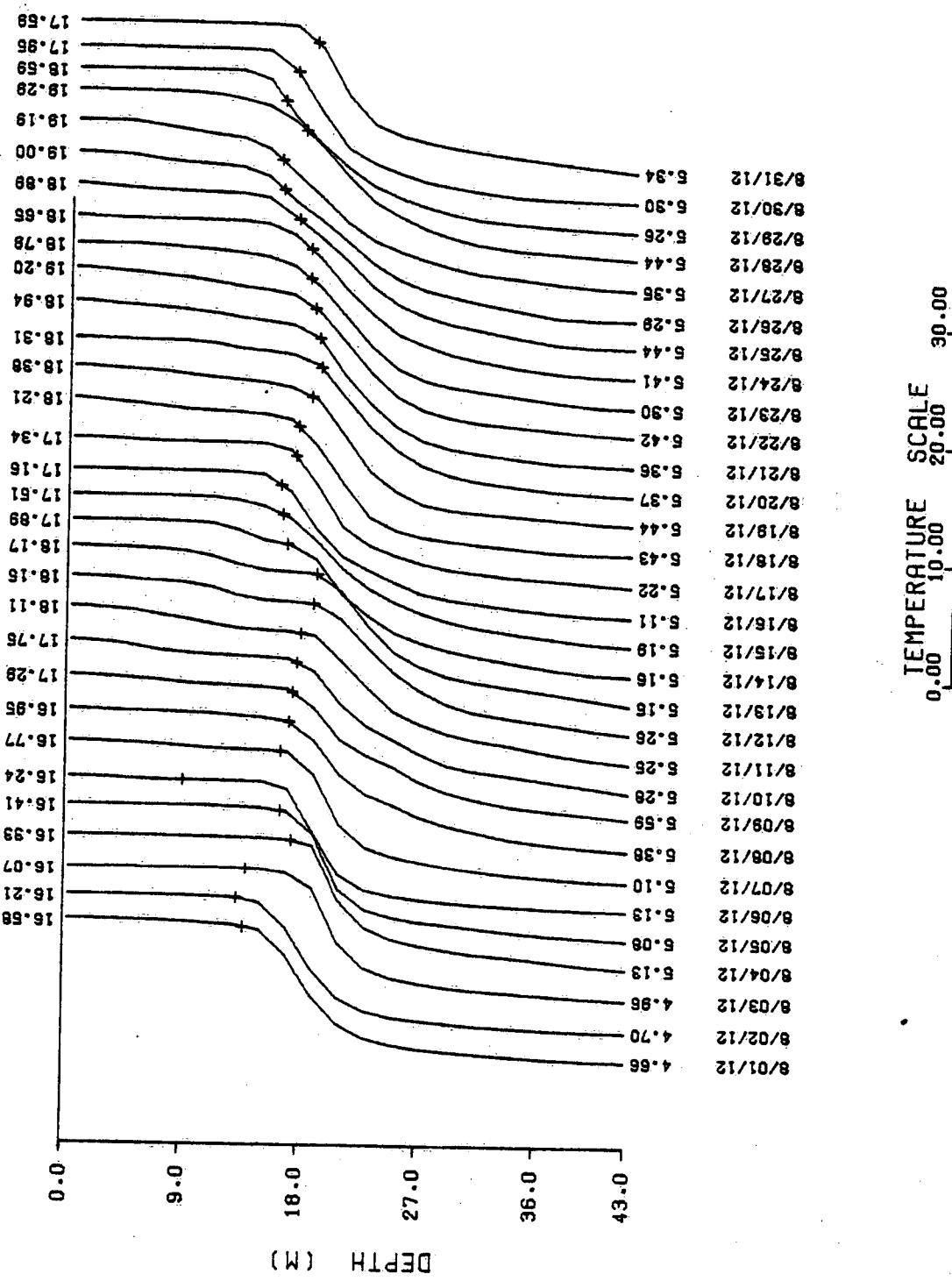
CONSTANT DEPTHS

1	5.5 M	6	M
2	8.0 M	7	M
3	11.0 M	8	M
4	M	9	M
5	M	10	M



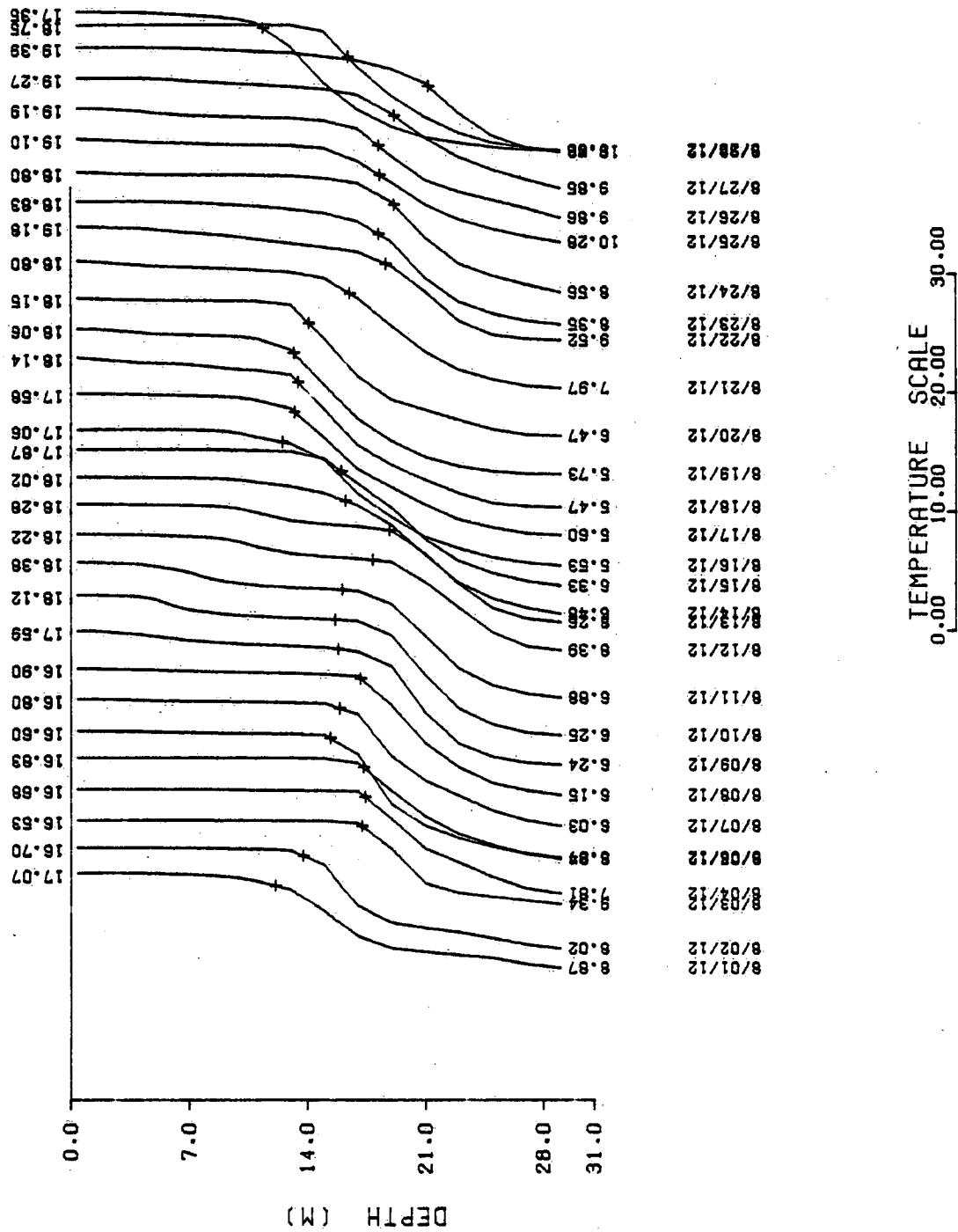
DAILY AVERAGED TEMPERATURE PROFILES

DATE - AUGUST 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-6T-09
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 16 DEGREE MARKED WITH +



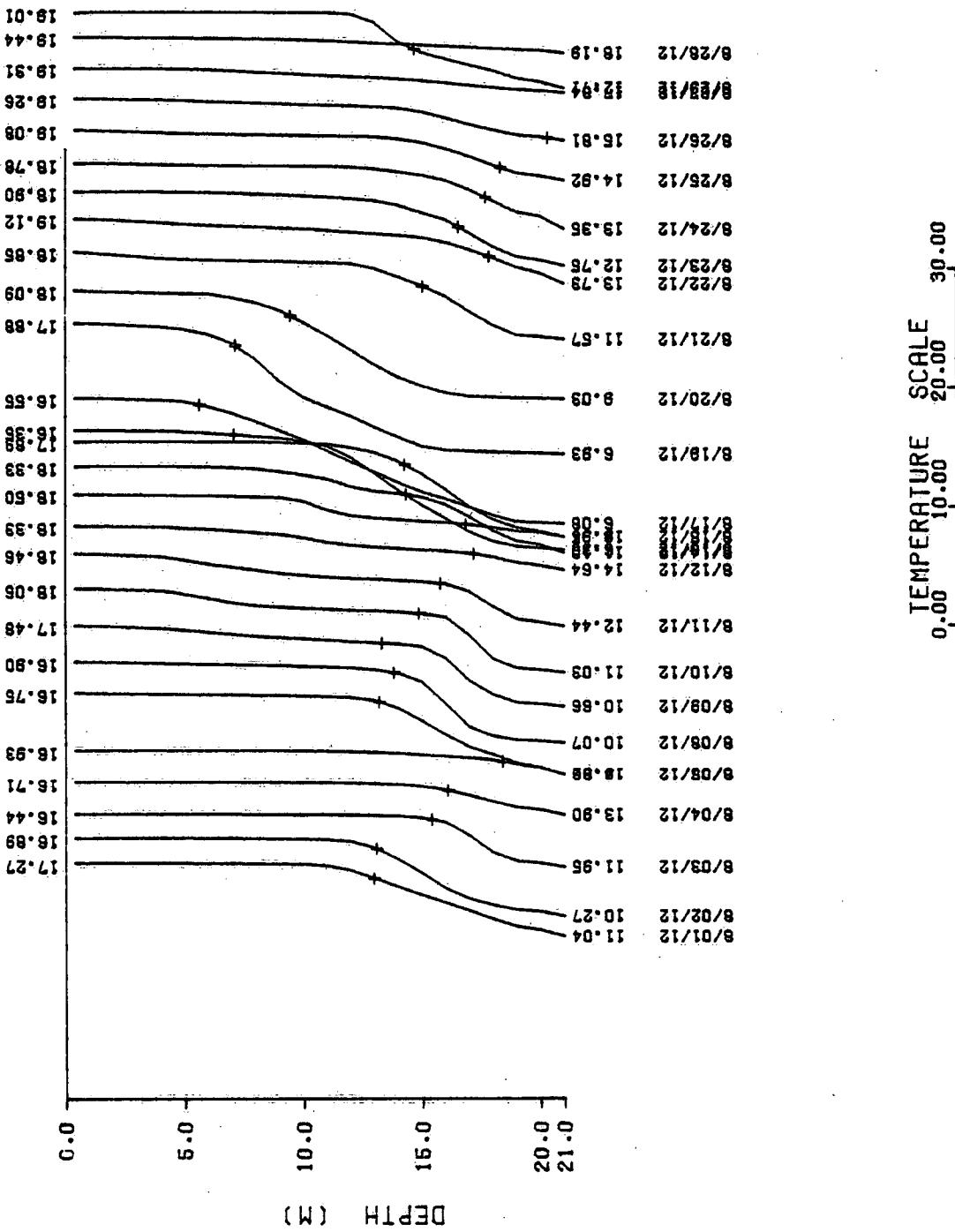
DAILY AVERAGED TEMPERATURE PROFILES

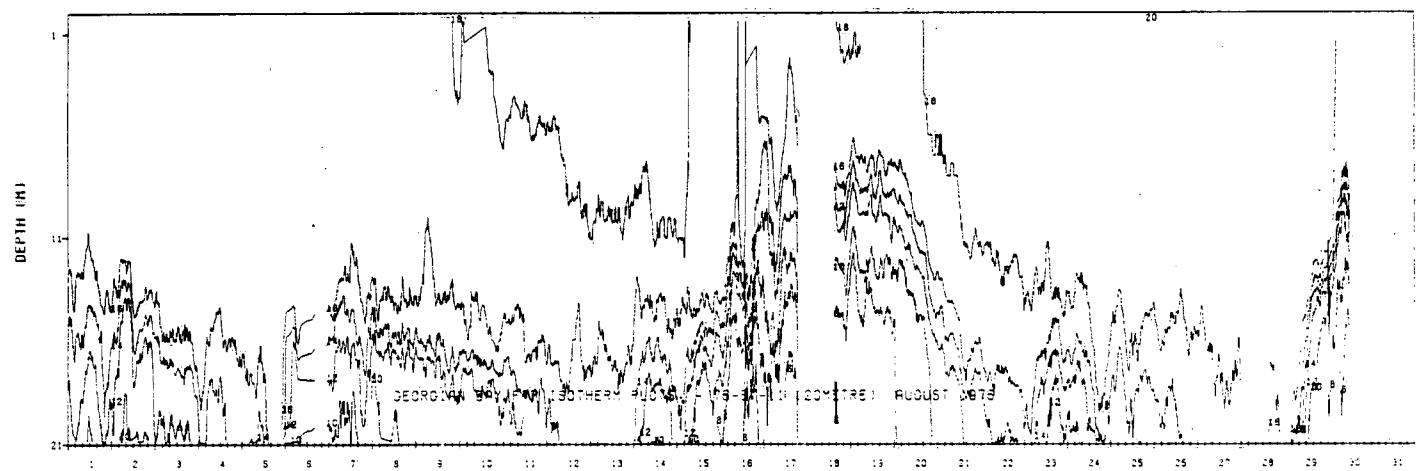
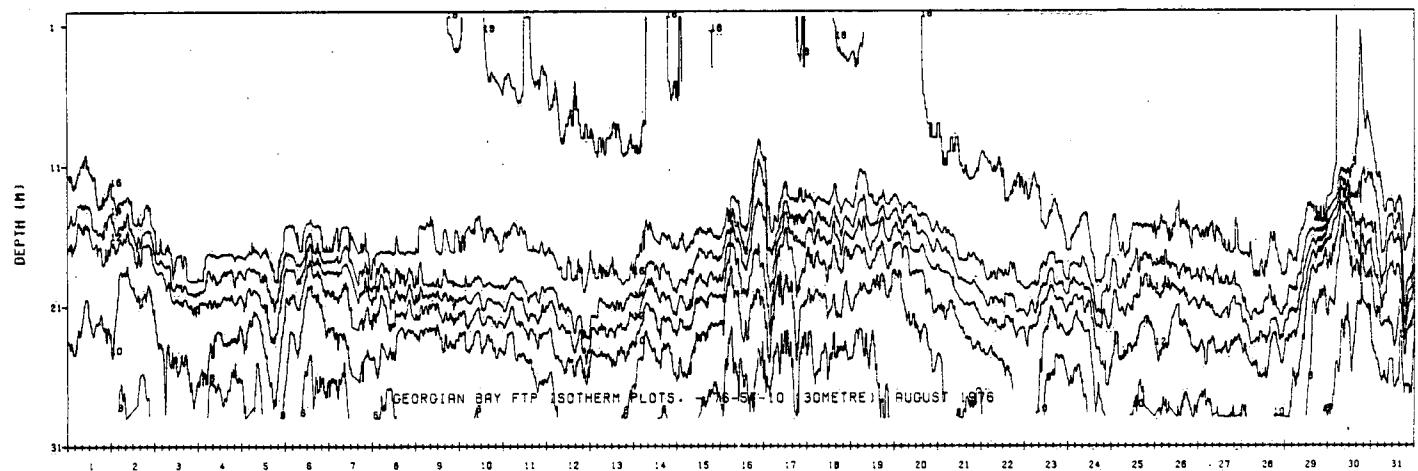
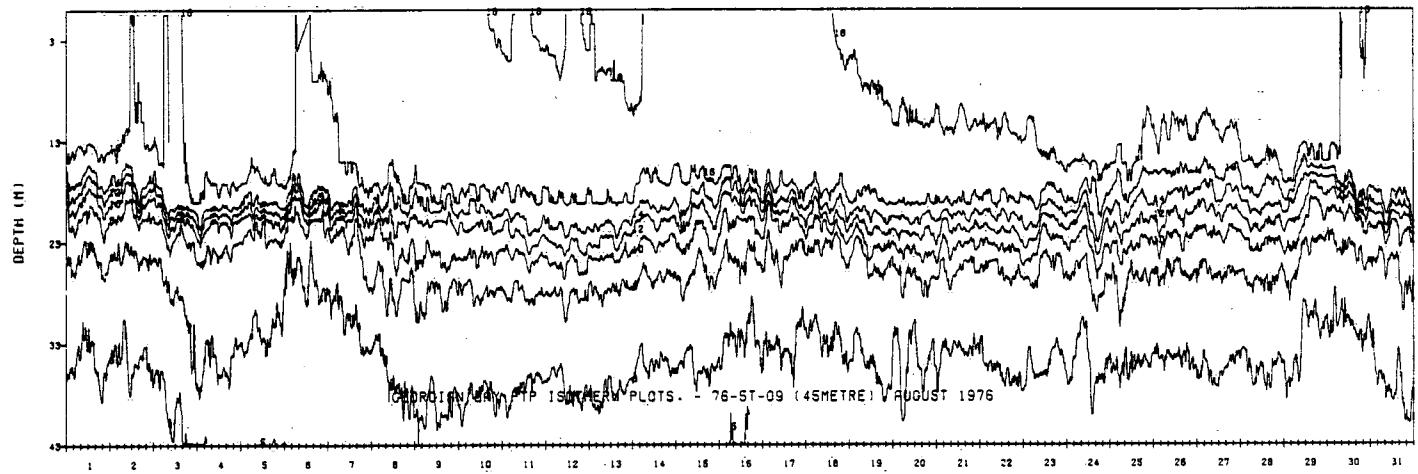
DATE - AUGUST 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-6T-10
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 16 DEGREE MARKED WITH +



DAILY AVERAGED TEMPERATURE PROFILES

DATE - AUGUST 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-6T-11
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 16 DEGREE MARKED WITH +



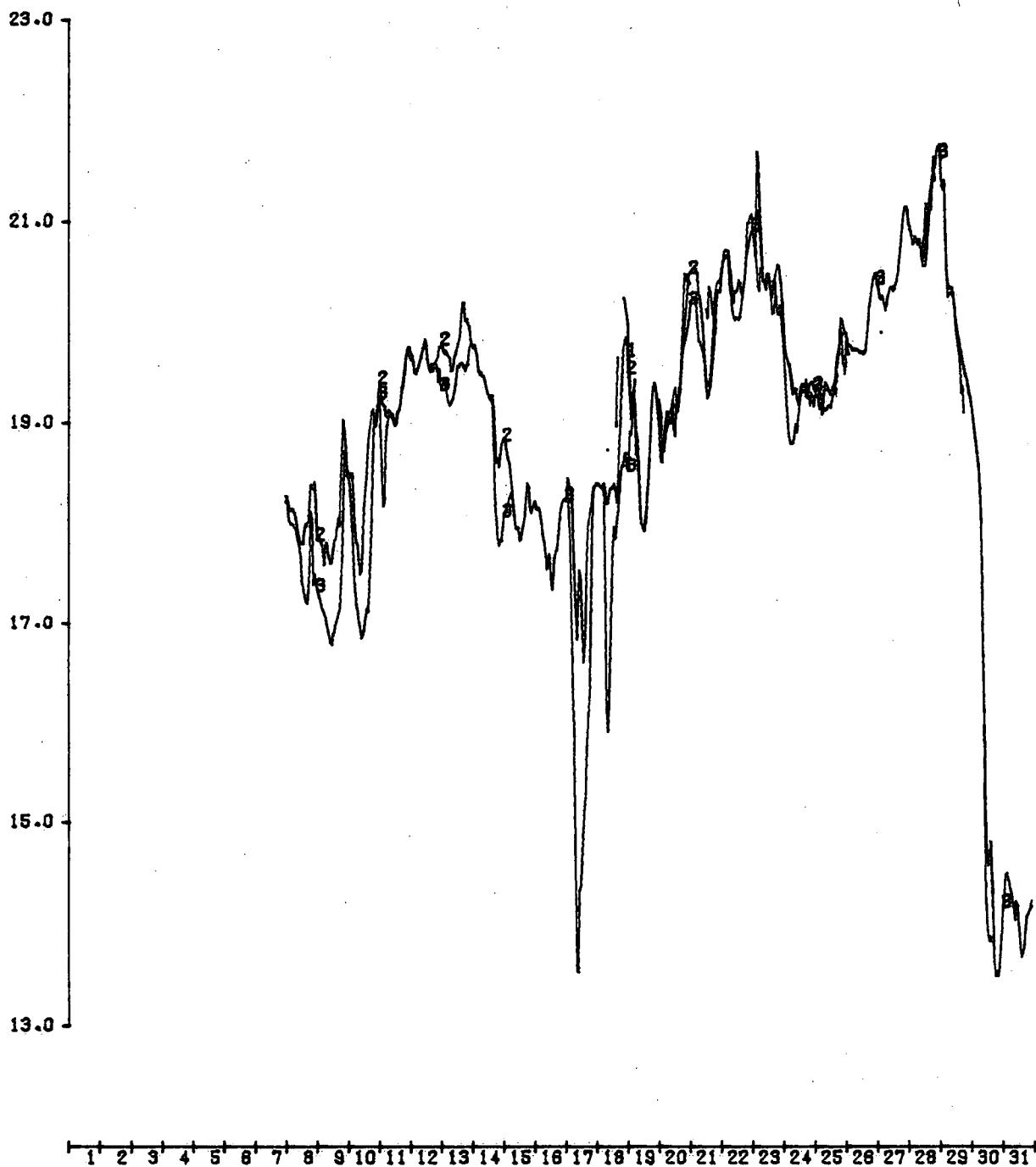


MOORING: 76-5S-12 DATE: AUG 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS

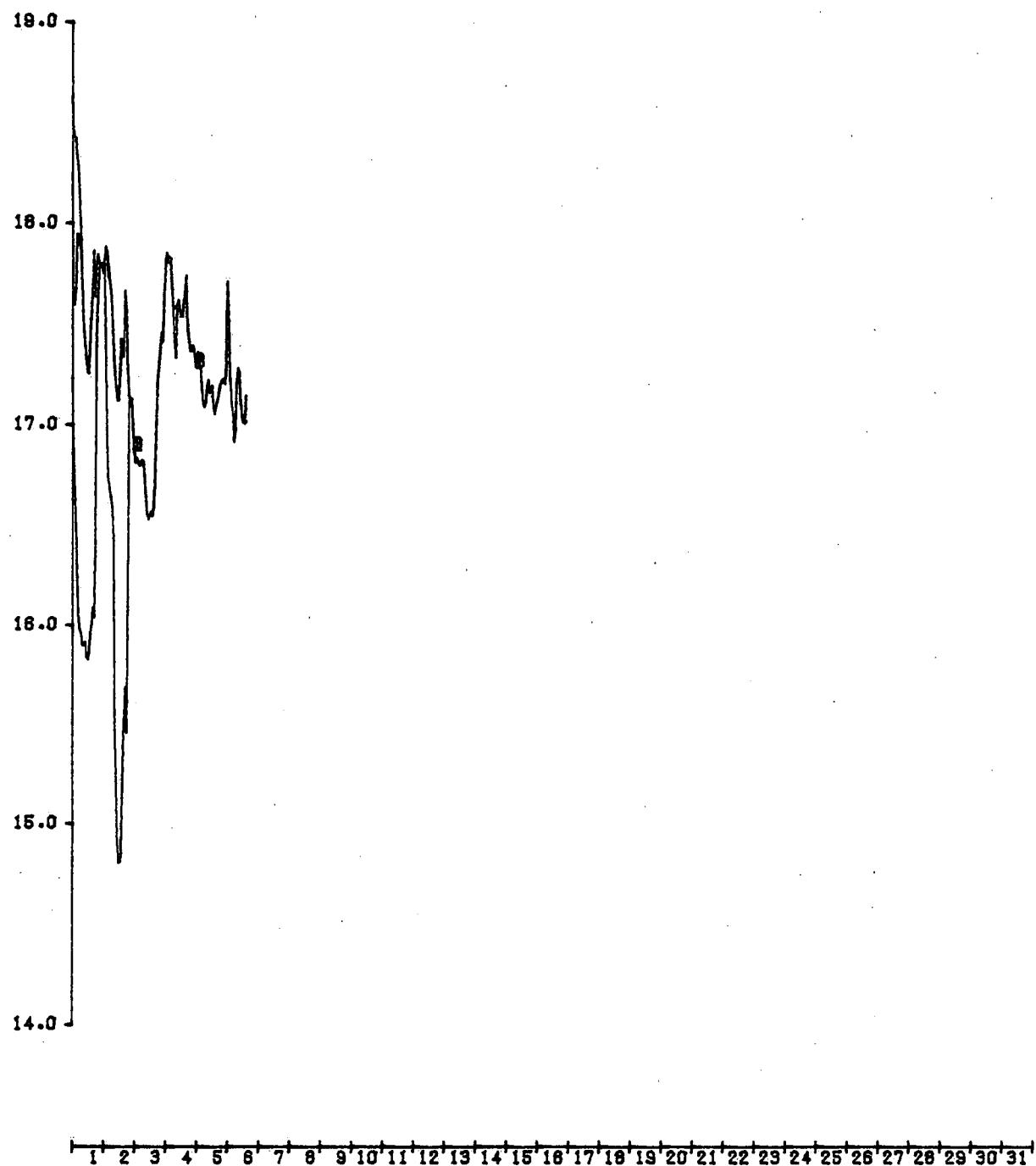
1	0.3 M	6	M
2	2.0 M	7	M
3	3.8 M	8	M
4	M	9	M
5	M	10	M



MOORING: 76-5S-13 DATE: AUG 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS	1	0.3 M	6	M
	2	3.5 M	7	M
	3	6.7 M	8	M
	4	M	9	M
	5	M	10	M

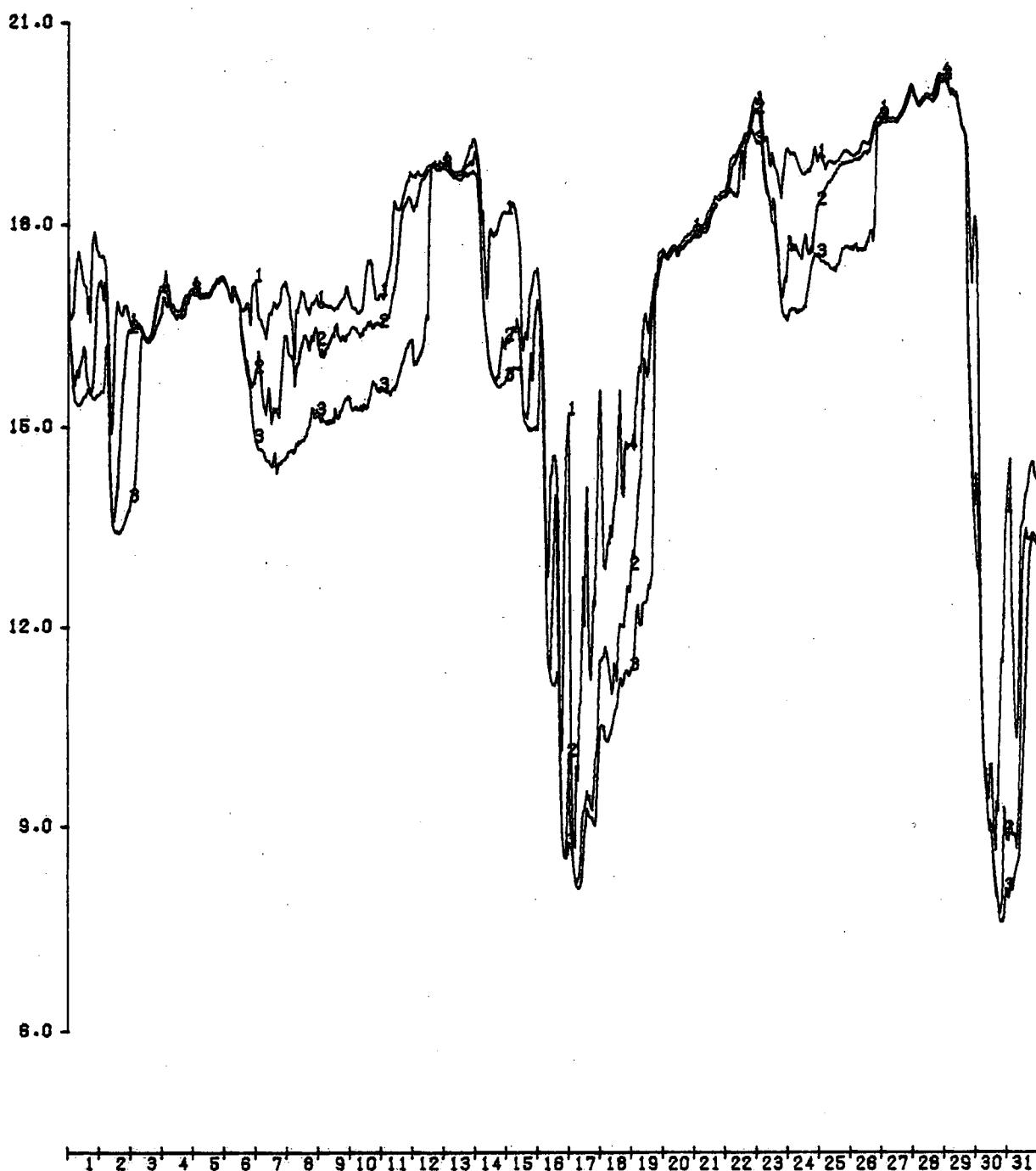


MOORING: 76-5S-14 DATE: AUG 1976

WATER TEMPERATURE °C

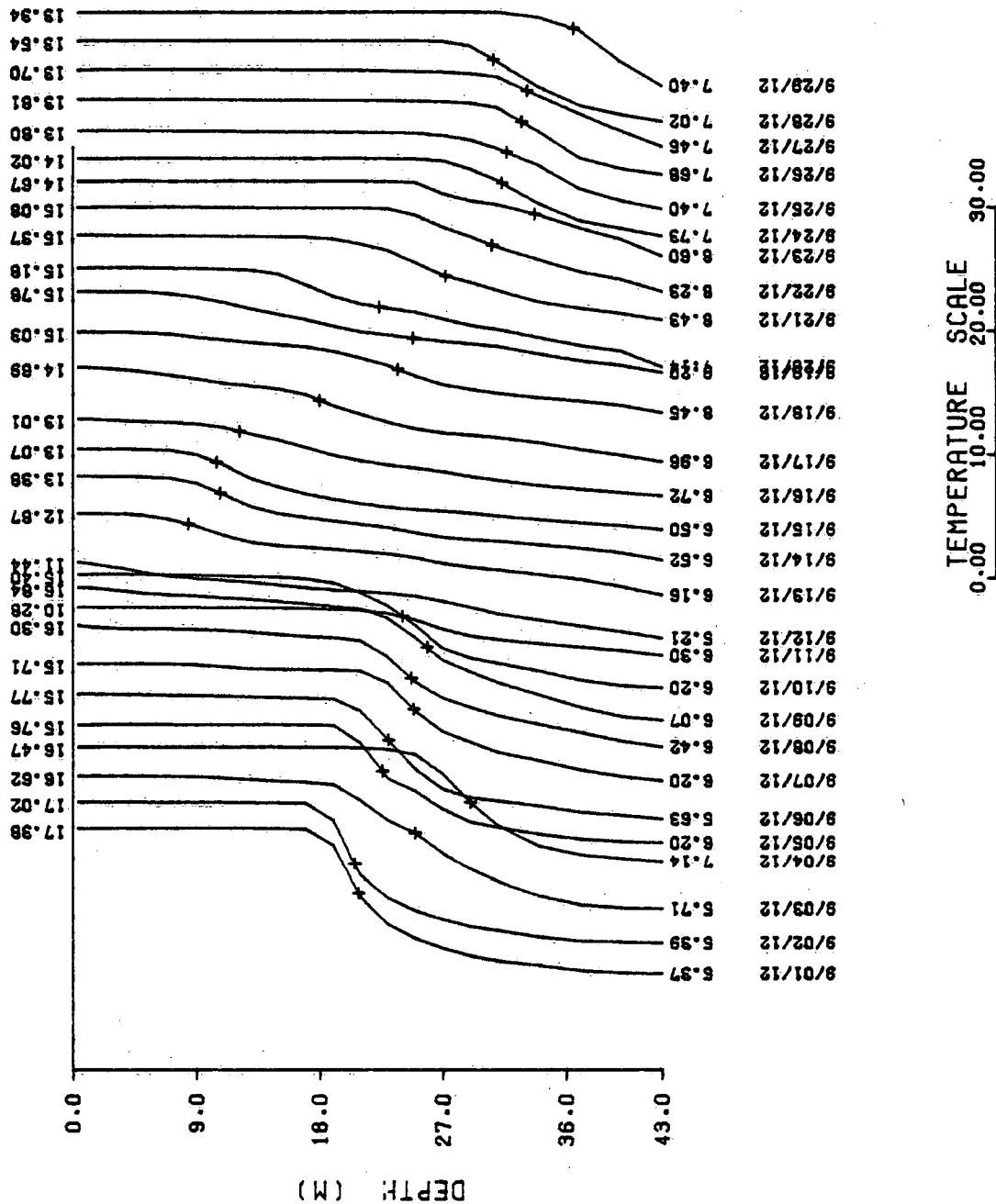
CONSTANT DEPTHS

1	5.5 M	6	M
2	8.0 M	7	M
3	11.0 M	8	M
4	M	9	M
5	M	10	M



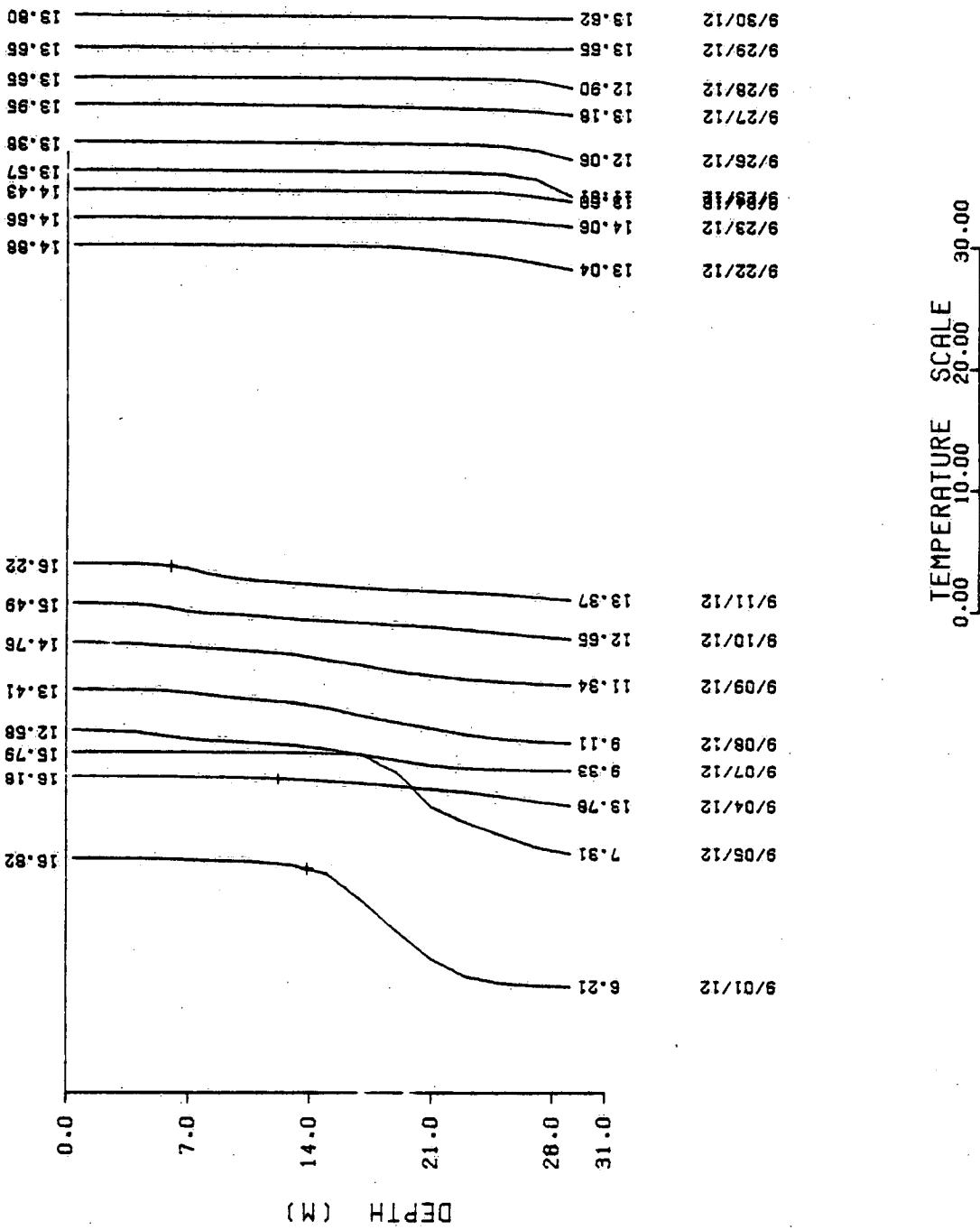
DAILY AVERAGED TEMPERATURE PROFILES

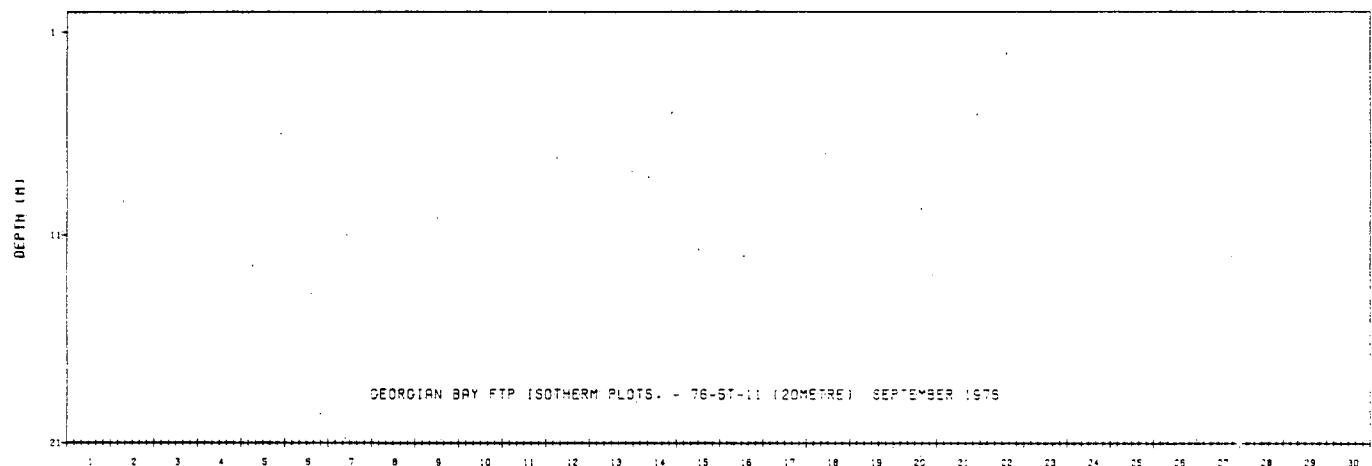
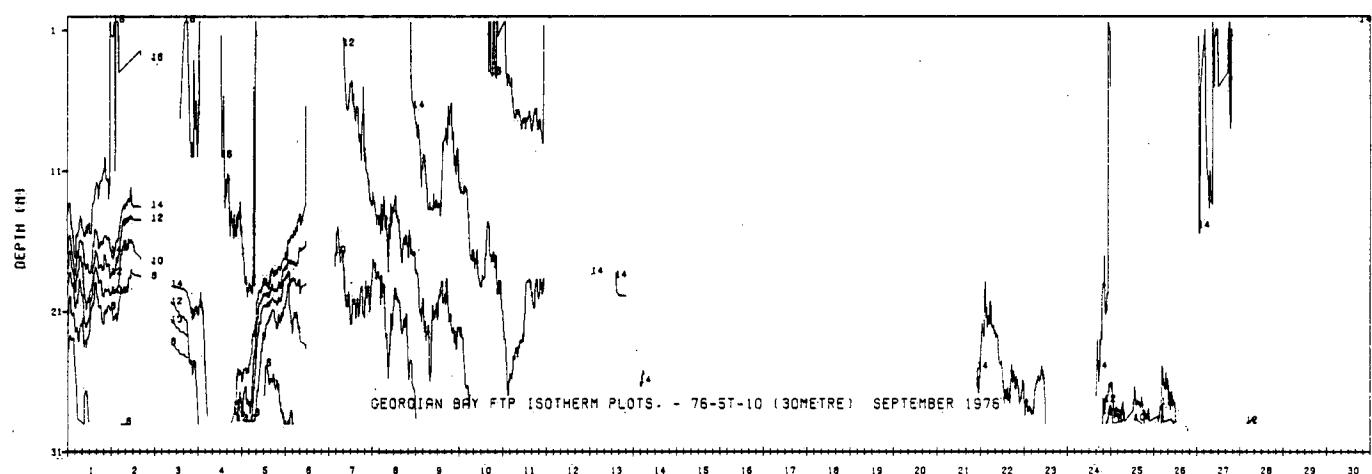
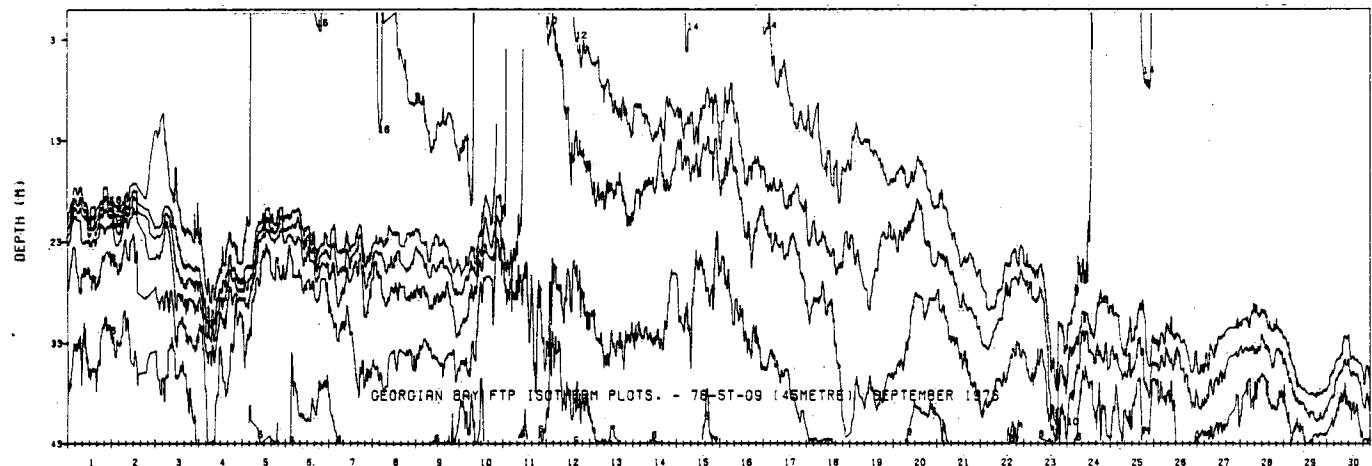
DATE - SEPTEMBER 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-6T-09
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 12 DEGREE MARKED WITH +



DAILY AVERAGED TEMPERATURE PROFILES

DATE - SEPTEMBER 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-ST-10
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 16 DEGREE MARKED WITH +



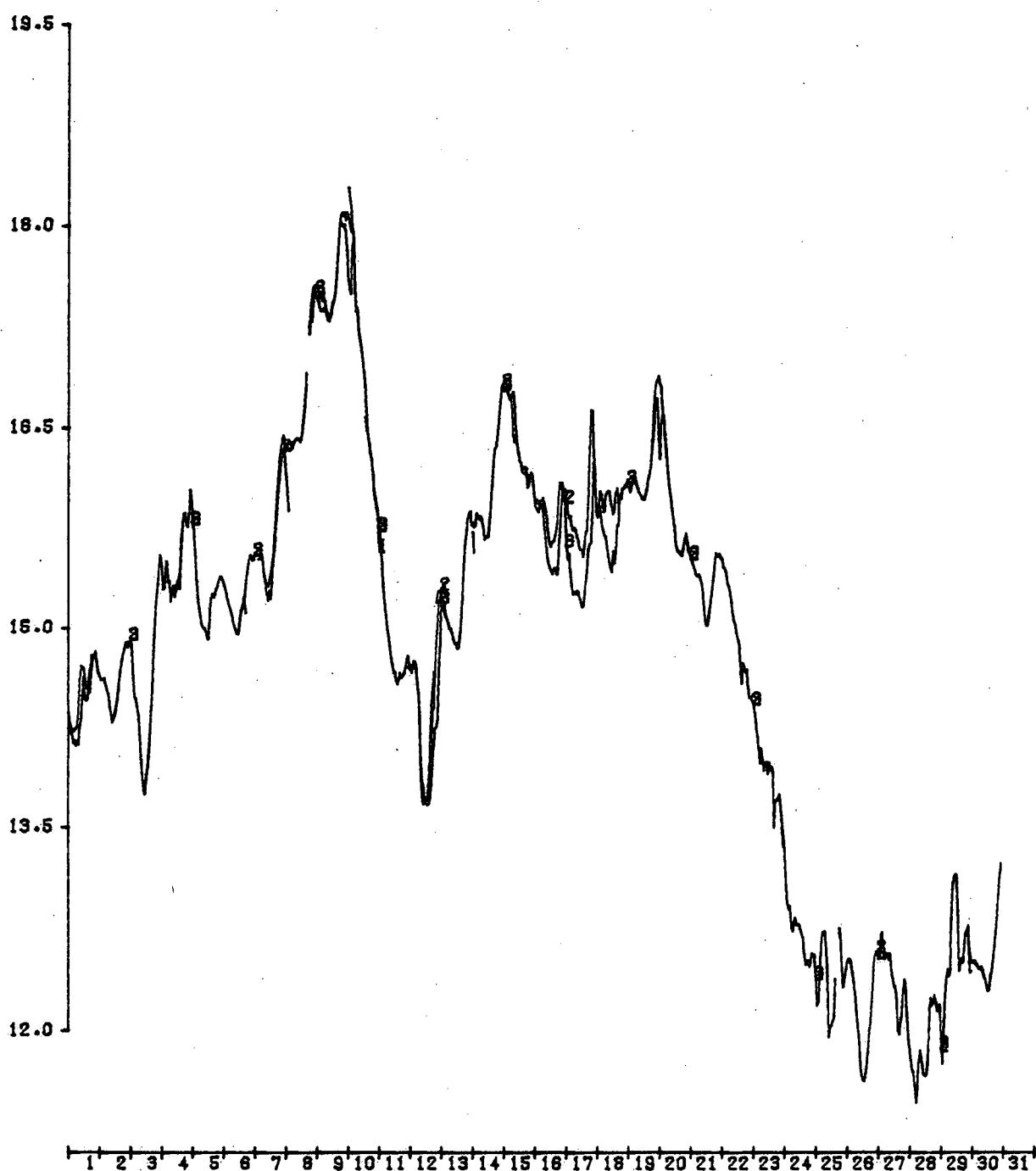


MOORING: 76-5S-12 DATE: SEPT 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS

1	0.3 M	6	M
2	2.0 M	7	M
3	3.8 M	8	M
4	M	9	M
5	M	10	M

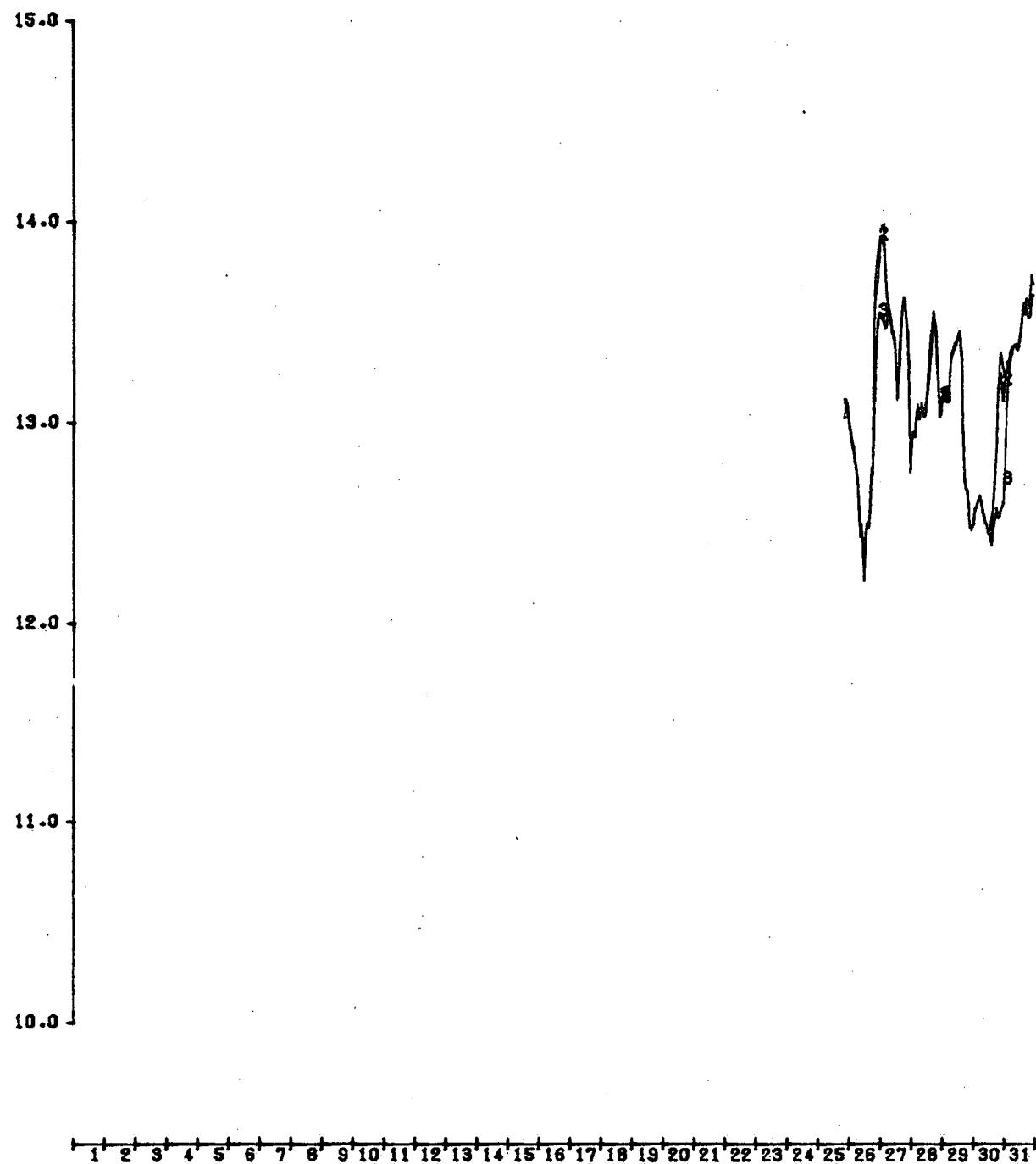


MOORING: 76-5S-13 DATE: SEPT 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS

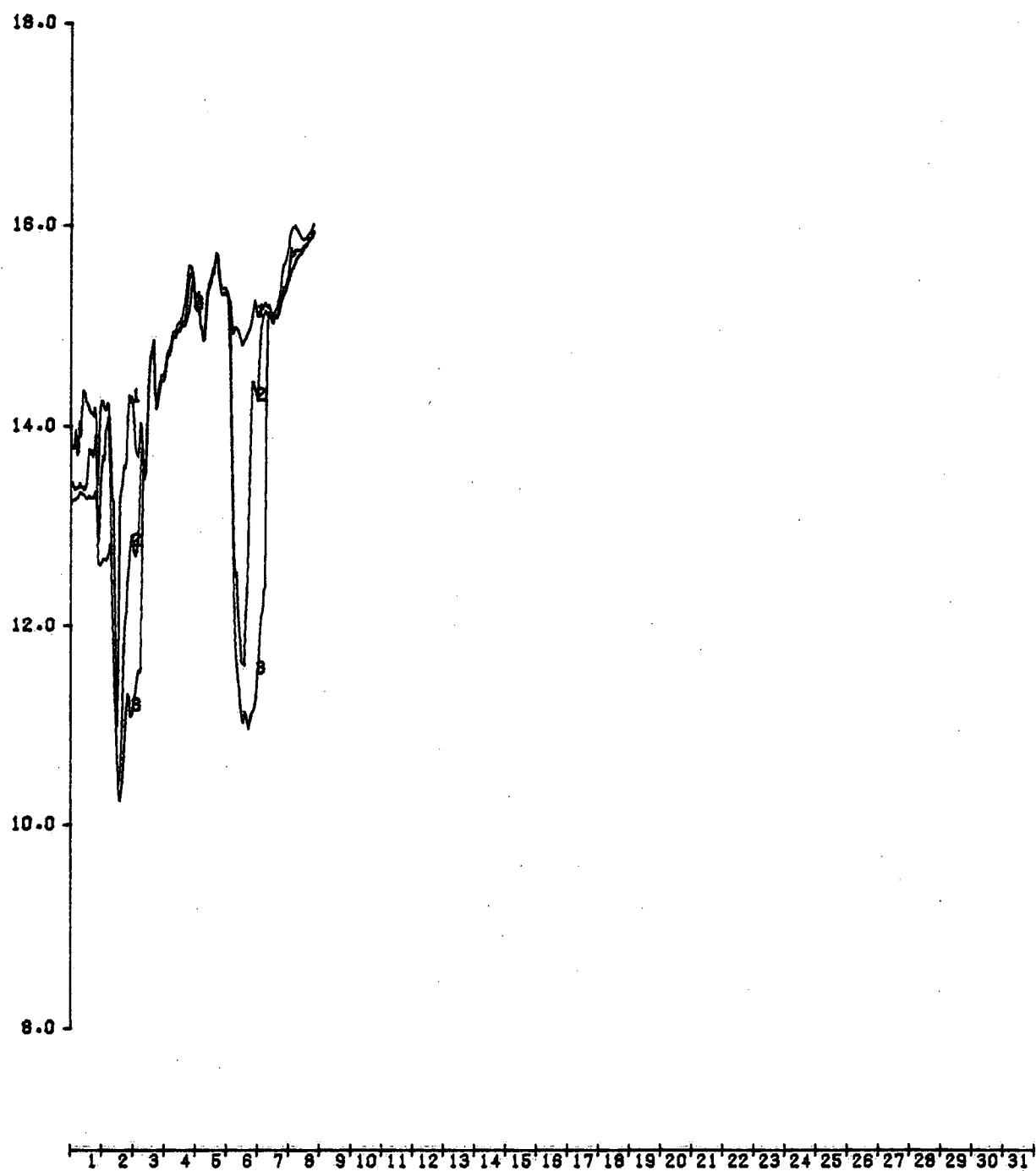
1	0.3 M	6	M
2	3.5 M	7	M
3	6.7 M	8	M
4	M	9	M
5	M	10	M



MOORING: 76-5S-14 DATE: SEPT 1976

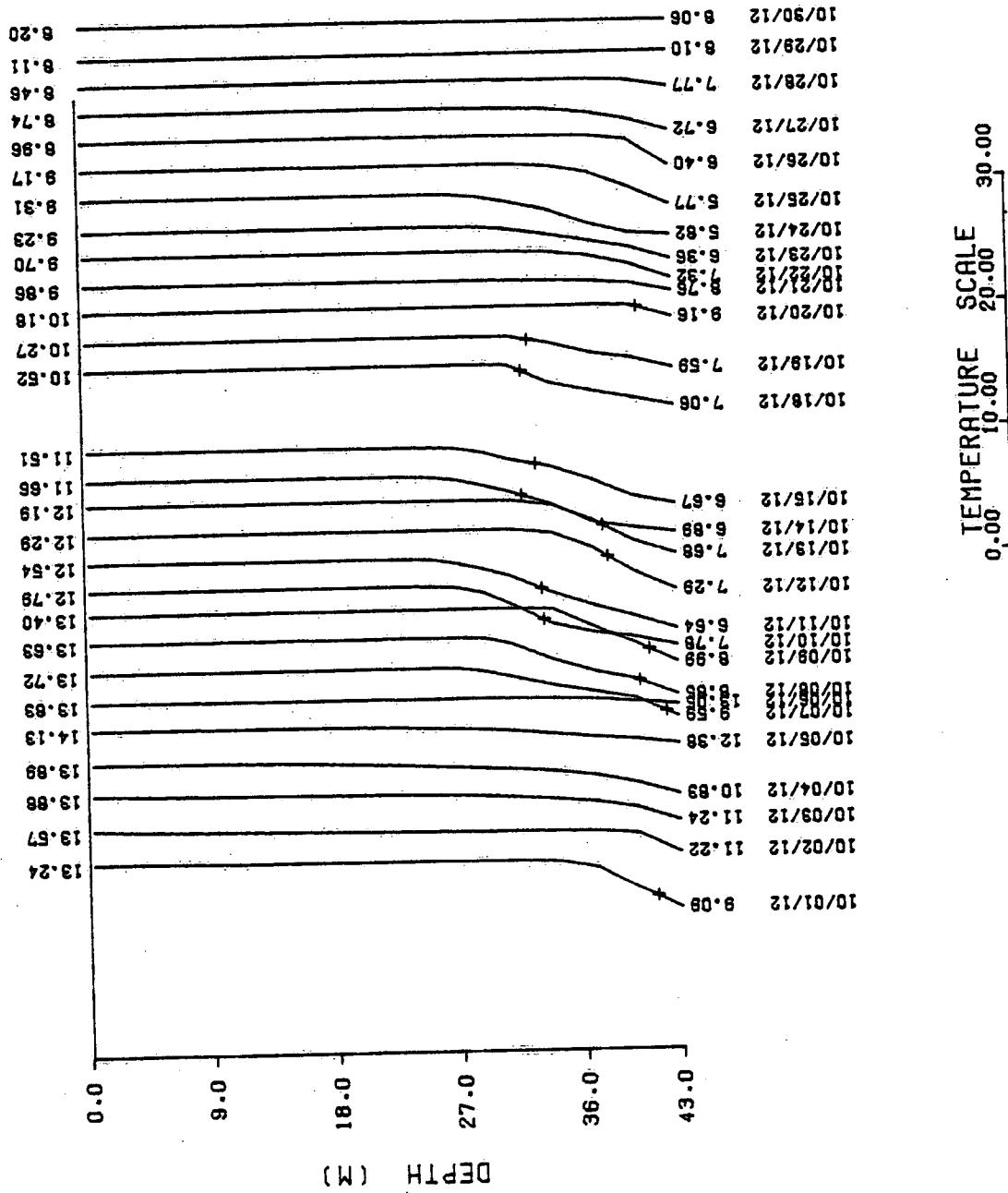
WATER TEMPERATURE °C

CONSTANT DEPTHS	1	5.5 M	6	M
2	8.0 M		7	M
3	11.0 M		8	M
4	M		9	M
5	M	10		M



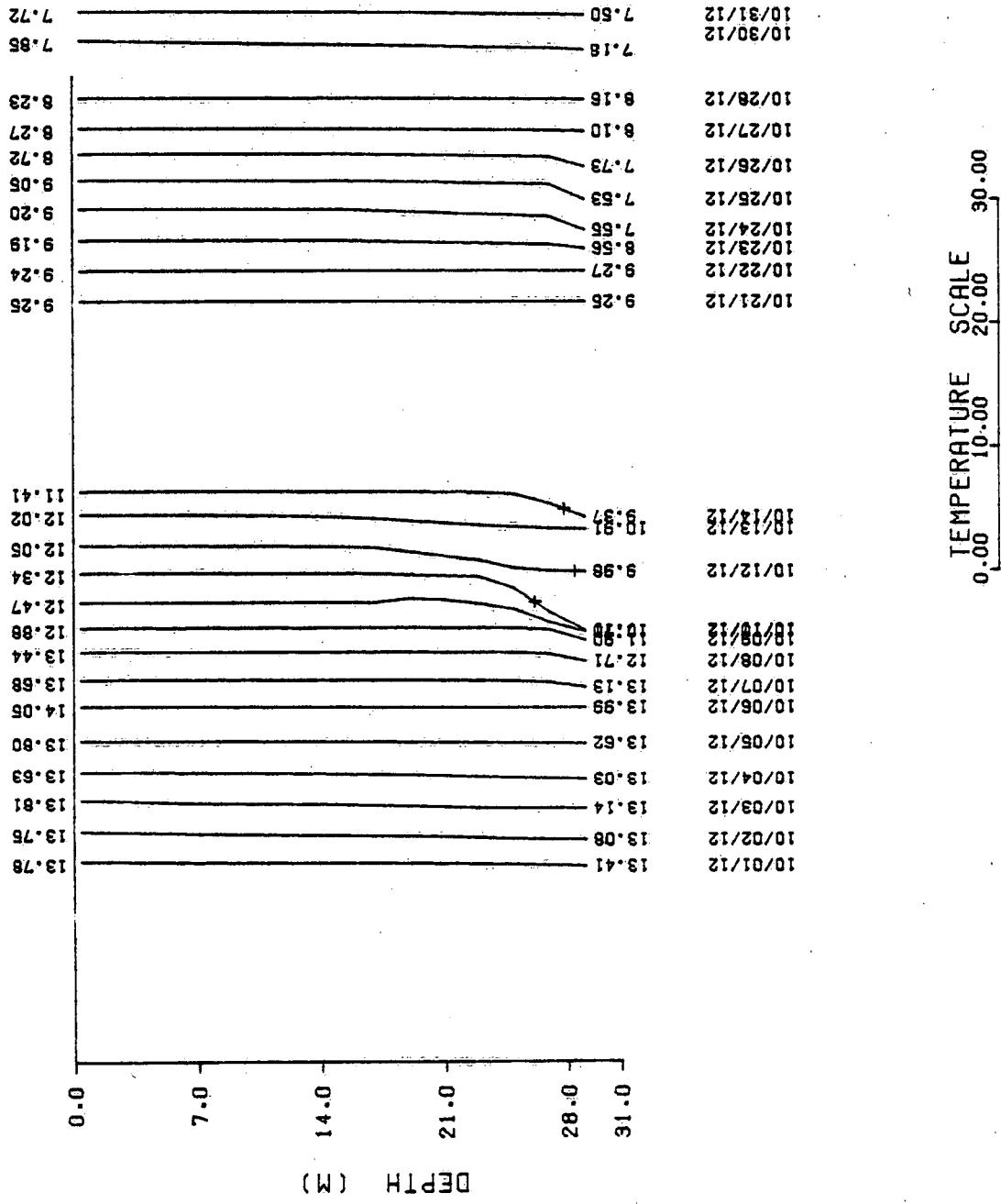
DAILY AVERAGED TEMPERATURE PROFILES

DATE - OCTOBER 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 HOORING - 76-ST-09
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 10 DEGREE MARKED WITH +



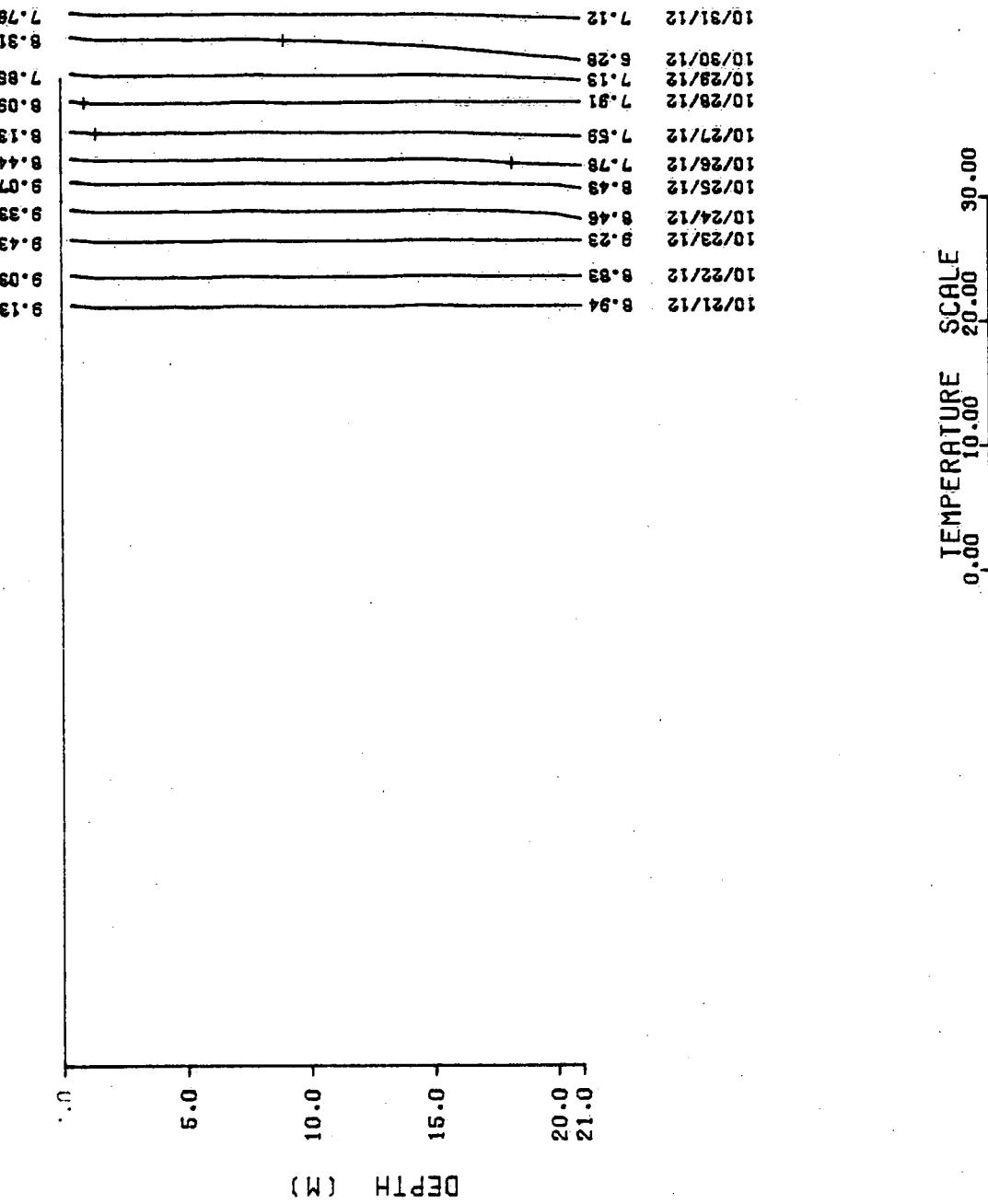
DAILY AVERAGED TEMPERATURE PROFILES

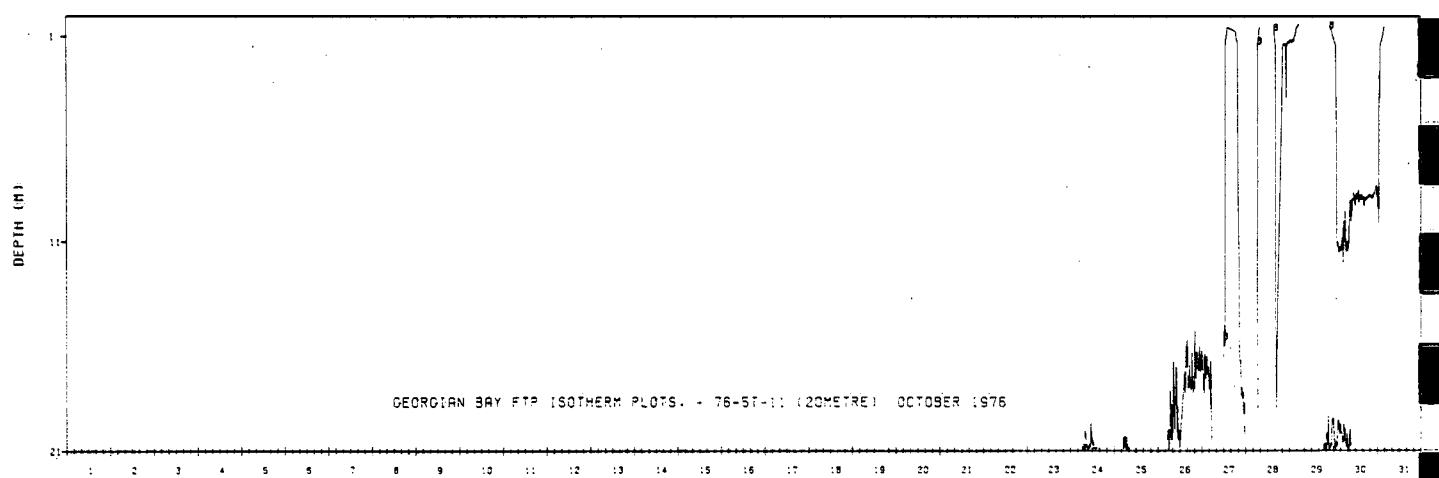
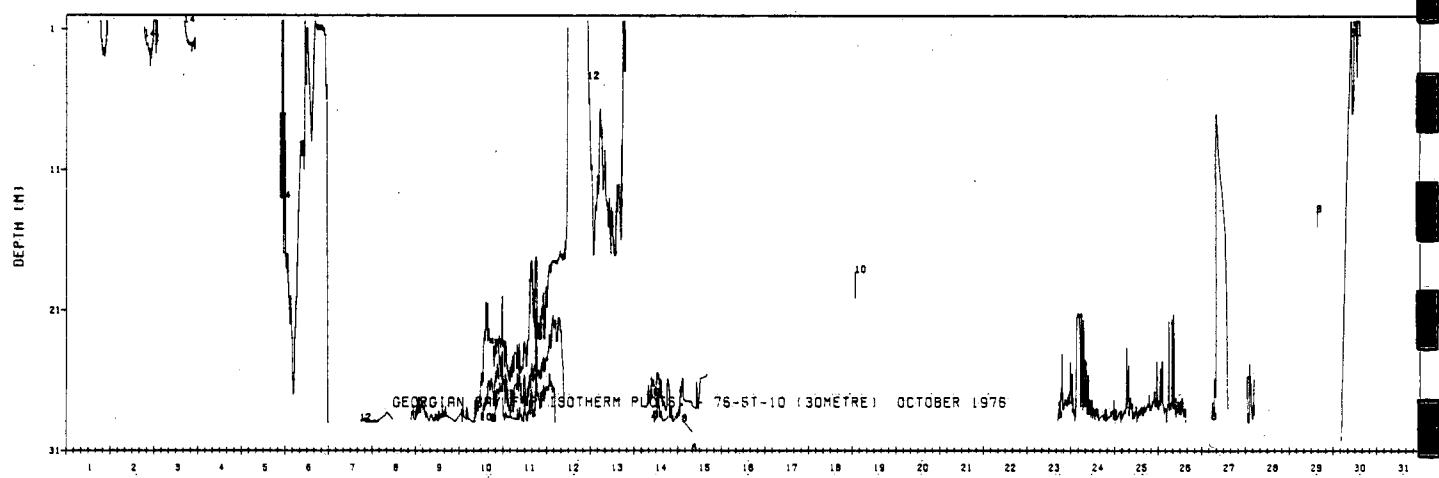
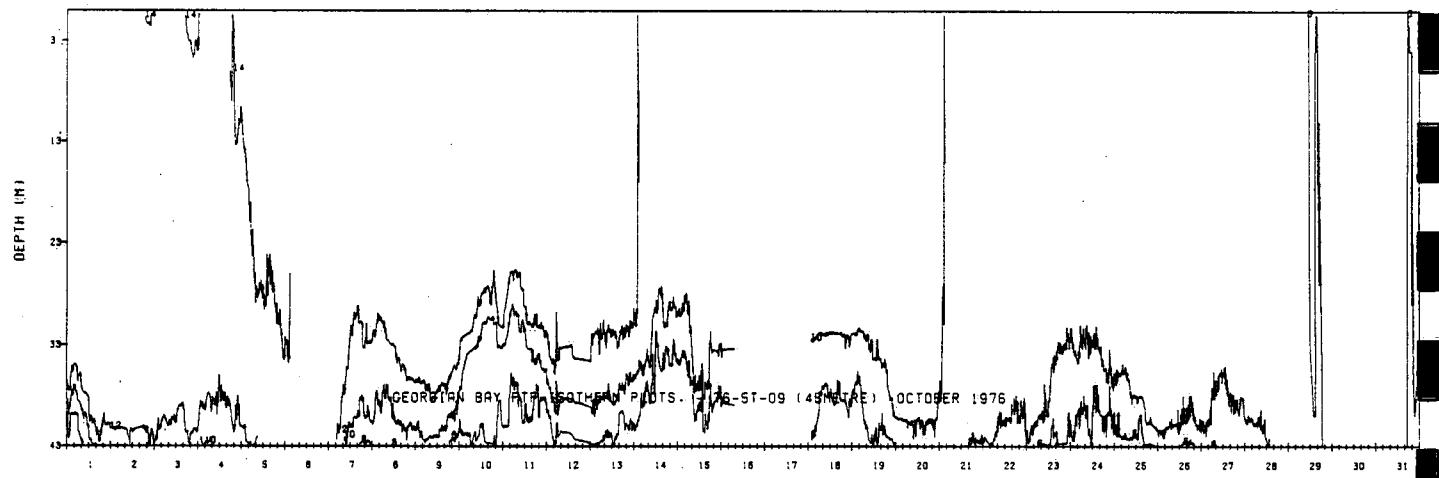
DATE - OCTOBER 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-ST-10
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 10 DEGREE MARKED WITH +



DAILY AVERAGED TEMPERATURE PROFILES

DATE - OCTOBER 1976
LOCATION - GEORGIAN BAY (BYNG INLET)
MOORING - 76-6T-11
INSTRUMENT - FIXED TEMPERATURE PROFILER
ISOTHERM - 8 DEGREE MARKED WITH +

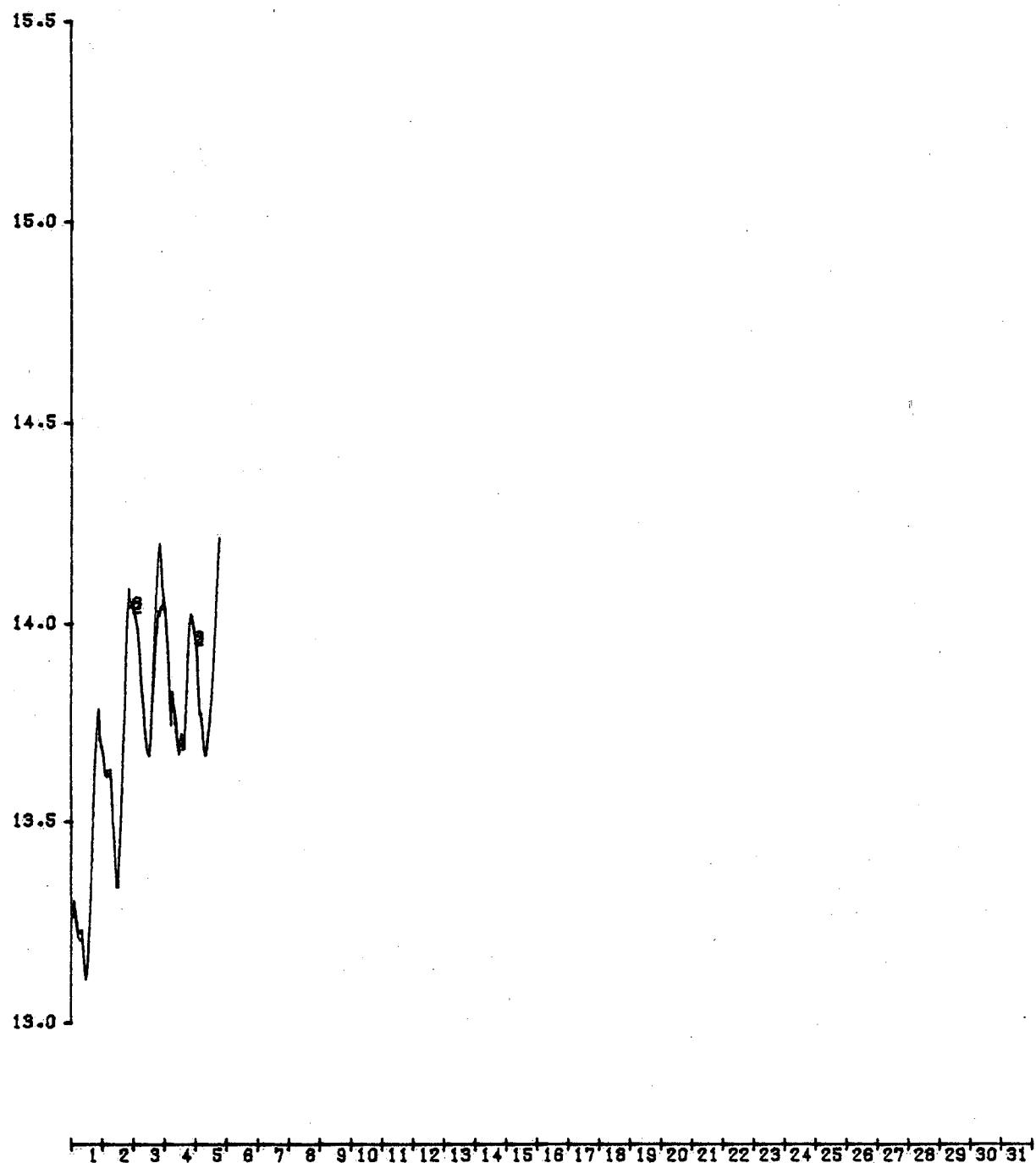




MOORING: 76-5S-12 DATE: OCT 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS	1	0.3 M	6	M
2	2.0 M		7	M
3	3.8 M		8	M
4	M		9	M
5	M		10	M

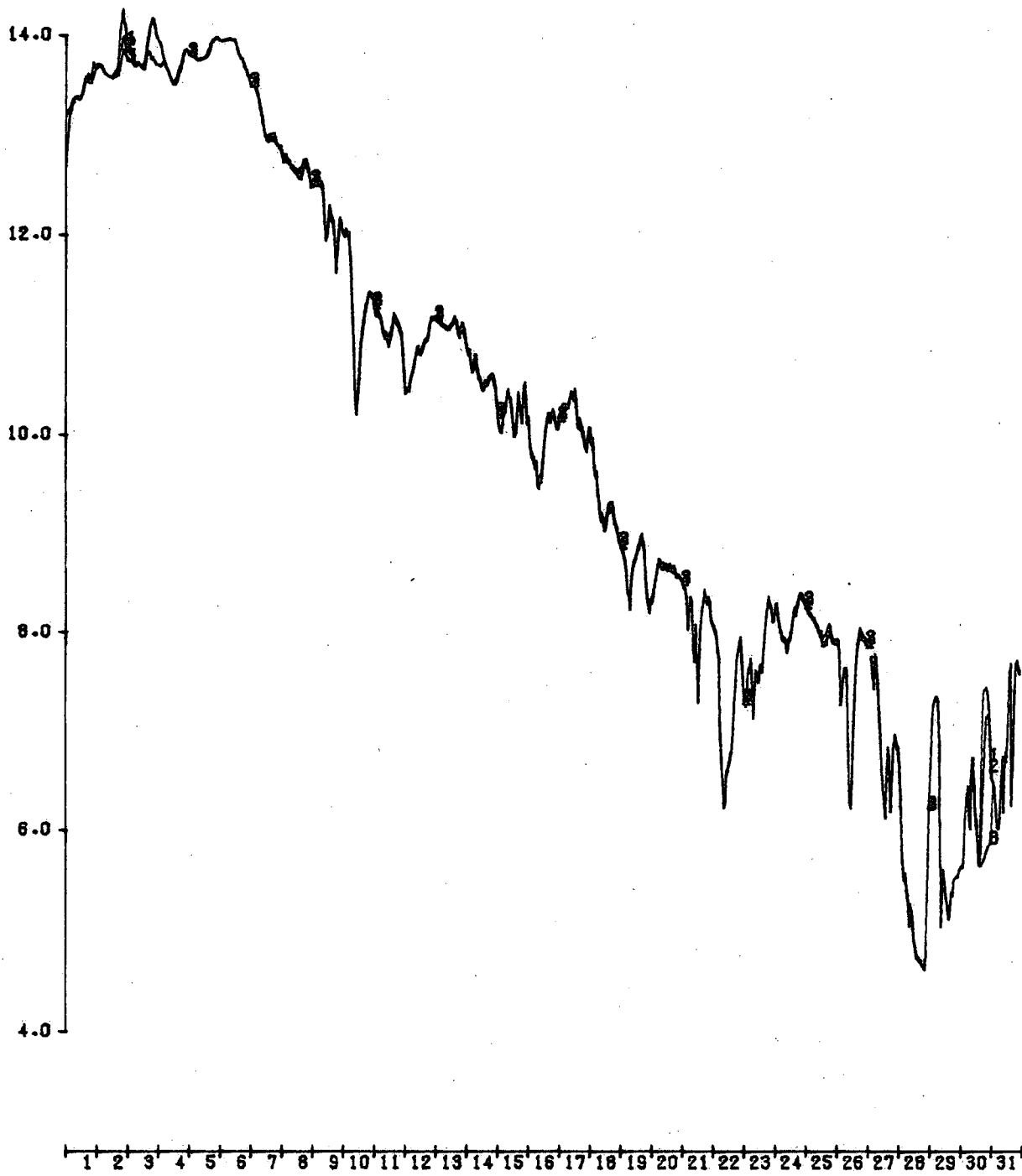


MOORING: 76-5S-13 DATE: OCT 1976

WATER TEMPERATURE °C

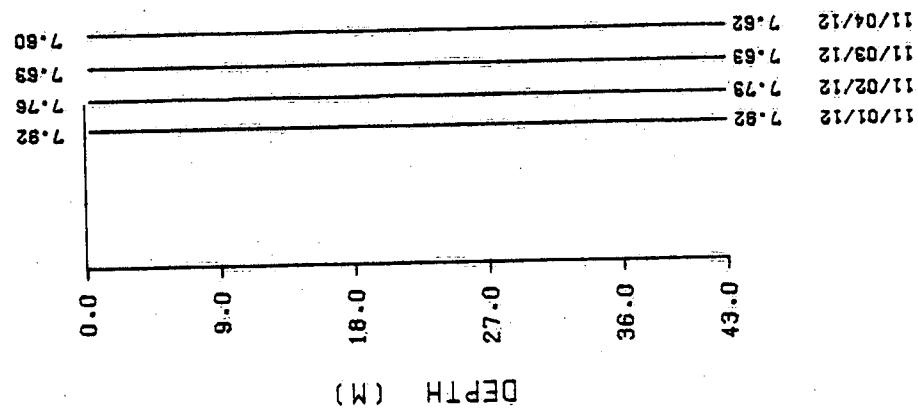
CONSTANT DEPTHS

1	0.3 M	6	M
2	3.5 M	7	M
3	6.7 M	8	M
4	M	9	M
5	M	10	M



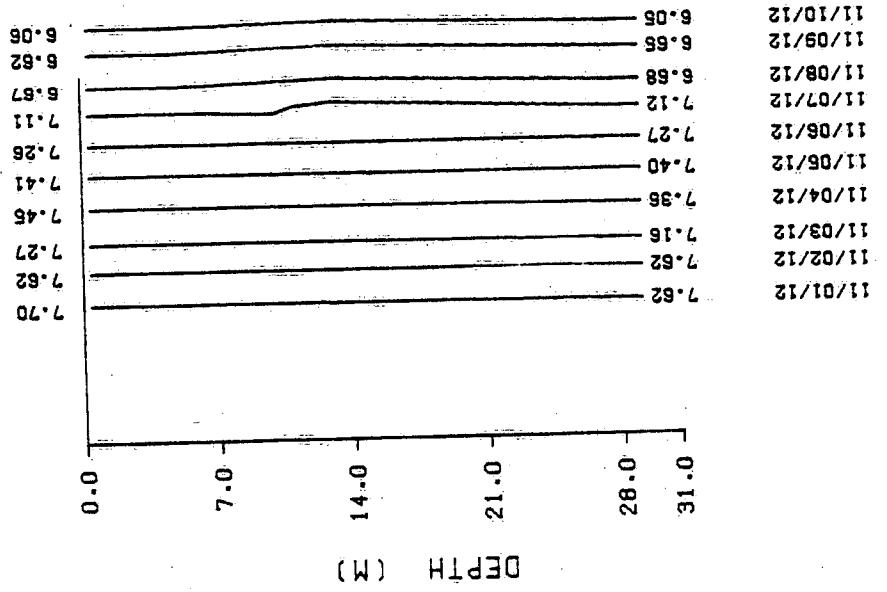
DAILY AVERAGED TEMPERATURE PROFILES

DATE - NOVEMBER 1976
LOCATION - GEORGIAN BAY (BYNG INLET)
MOORING - 76-61-09
INSTRUMENT - FIXED TEMPERATURE PROFILER
ISOTHERM - 10 DEGREE MARKED WITH +



DAILY AVERAGED TEMPERATURE PROFILES

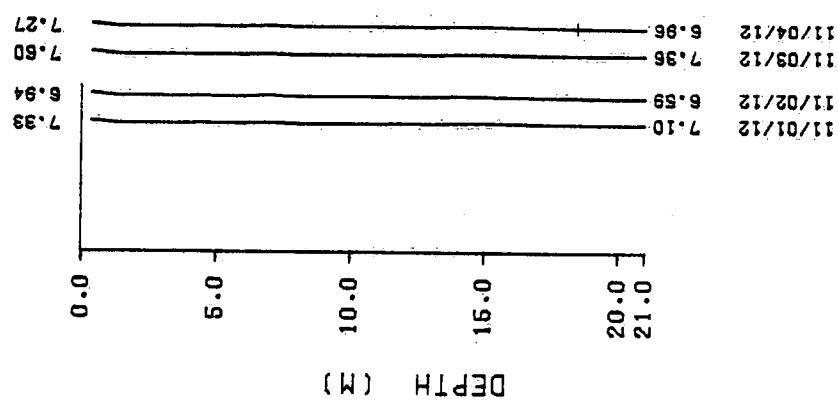
DATE - NOVEMBER 1976
 LOCATION - GEORGIAN BAY (BYNG INLET)
 MOORING - 76-6T-10
 INSTRUMENT - FIXED TEMPERATURE PROFILER
 ISOTHERM - 10 DEGREE MARKED WITH +



TEMPERATURE SCALE
0.00 10.00 20.00 30.00

DAILY AVERAGED TEMPERATURE PROFILES

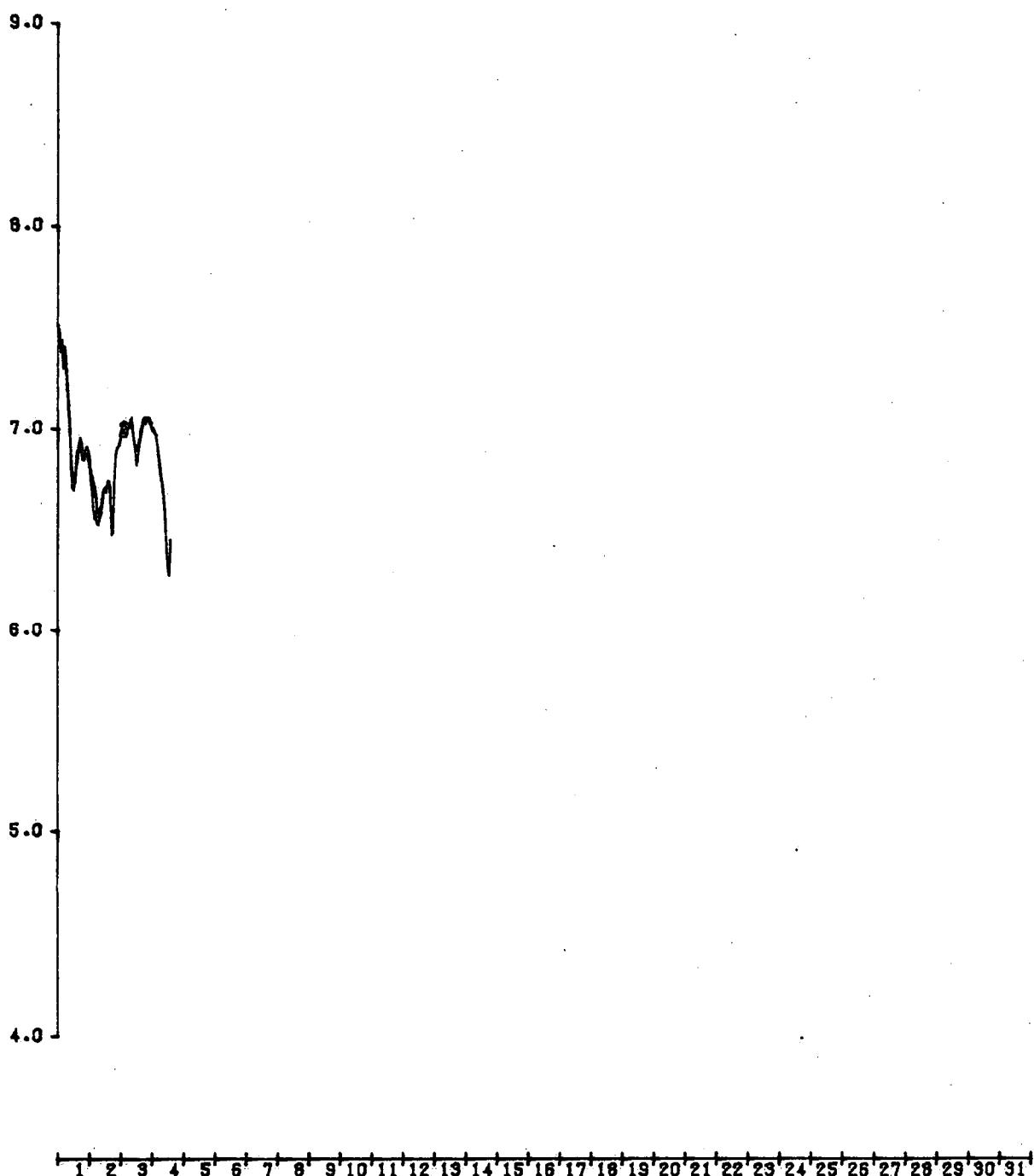
DATE - NOVEMBER 1976
LOCATION - GEORGIAN BAY (BYNG INLET)
MOORING - 76-6T-11
INSTRUMENT - FIXED TEMPERATURE PROFILER
ISOTHERM - 7 DEGREE MARKED WITH +



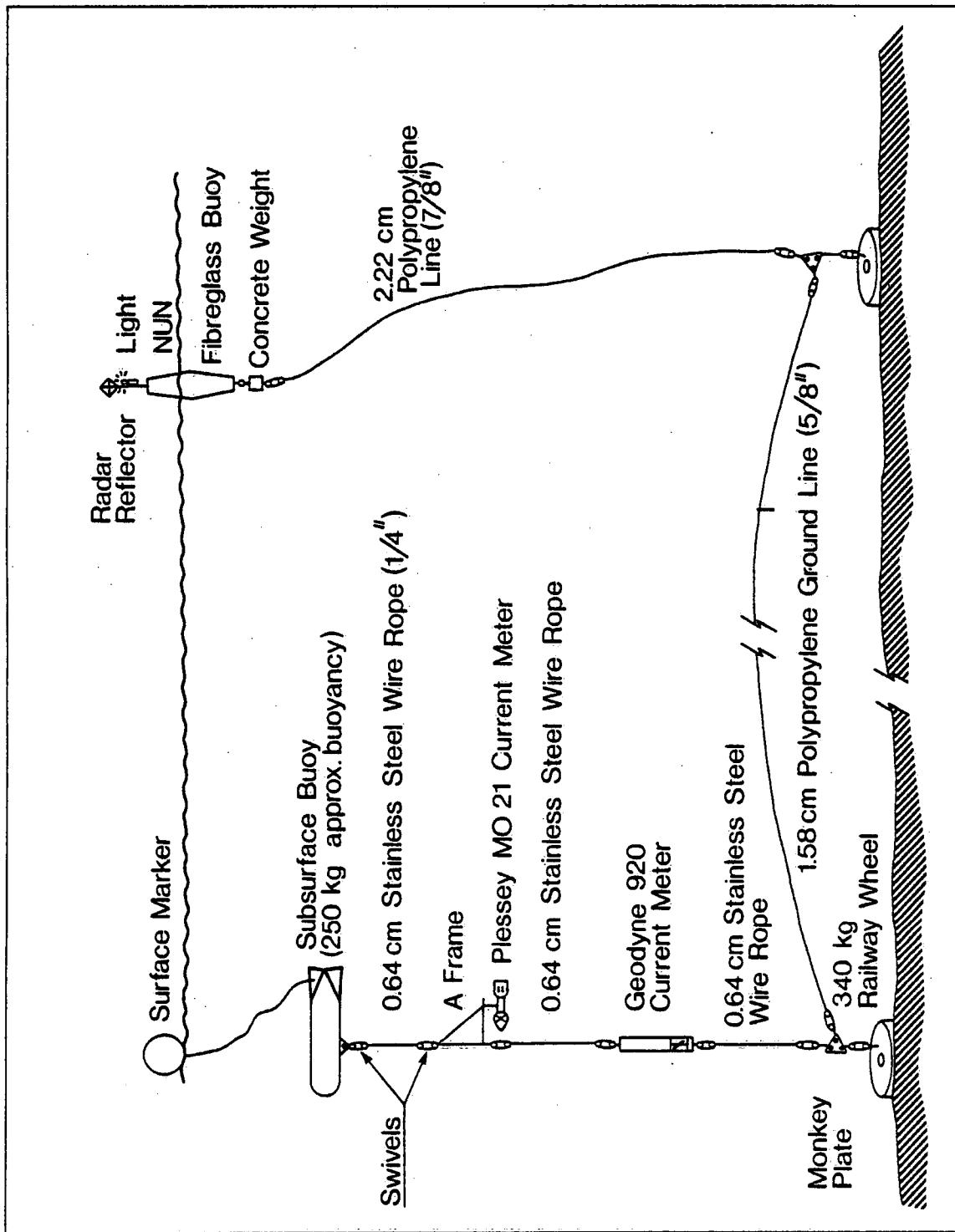
MOORING: 76-5S-13 DATE: NOV 1976

WATER TEMPERATURE °C

CONSTANT DEPTHS	1	0.3 M	6	M
	2	3.5 M	7	M
	3	6.7 M	8	M
	4	M	9	M
	5	M	10	M



APPENDIX E: INSTRUMENT SPECIFICATION AND MOORING CONFIGURATION



TYPICAL CURRENT MOORING – C.C.I.W

Figure E1

INSTRUMENT SPECIFICATIONS: CURRENT METERS

1. Geodyne Model 920 Current Meter (CCIW)

Recording Medium: 6.35 mm (1/4 inch) endless loop magnetic tape, 120 metres (390 ft.), 2 track, 512 BPI at 6.4 bits/second

Format: Serial digital

Word Size: 16 bit, 12 used for reference, time and temperature, 14 bits used for identity and compass-vane words

Tape Capacity: 180,000 words

Speed Sensor: Savonius rotor with magnetic coupling, 16 counts per revolution measured over 4.375 secs per reading

Speed Range: 2 cm/sec to 360 cm/sec

Speed Threshold: Rated at 2 cm/sec but depends on bearing condition and rotor balance

Speed Accuracy: ± 2.5 cm/sec below 50 cm/sec, ± 5 cm/sec above 50 cm/sec

Direction Sensor: Compass-vane system of two seven bit optical code discs, measured simultaneously, and recorded as 14 bits.

Direction Accuracy: ± 10 degrees compass

Time: Linear continuous rotation potentiometer driven at 1 revolution per day to control a transducer controlled oscillator (TCO). The frequency of this TCO is counted for 1.875 seconds to give a timeword.

Time Accuracy: Maximum cumulative error of 10 sec/day based on the system clock accuracy.

Temperature Sensor: Resistance of a thermistor is used to control a TCO in a manner similar to the timeword.

Temperature Accuracy: $\pm 0.1^\circ\text{C}$

Temperature Range: -2°C to $+35^\circ\text{C}$

2. Plessey Model M021 Current Meter (CCIW)

Recording Medium: 6.35 mm (1/4 inch) reel to reel magnetic tape.

Format: Serial digital

Word Size: 10 bits

Tape Capacity: 55,200 words

Speed Sensor: Propeller with magnetic coupling and reduction gearing driving a potentiometer.

Speed Range: 5.0 to 250 cm/sec

Speed Threshold: Rated at 3 cm/sec but depends on mechanical condition of propeller bearings.

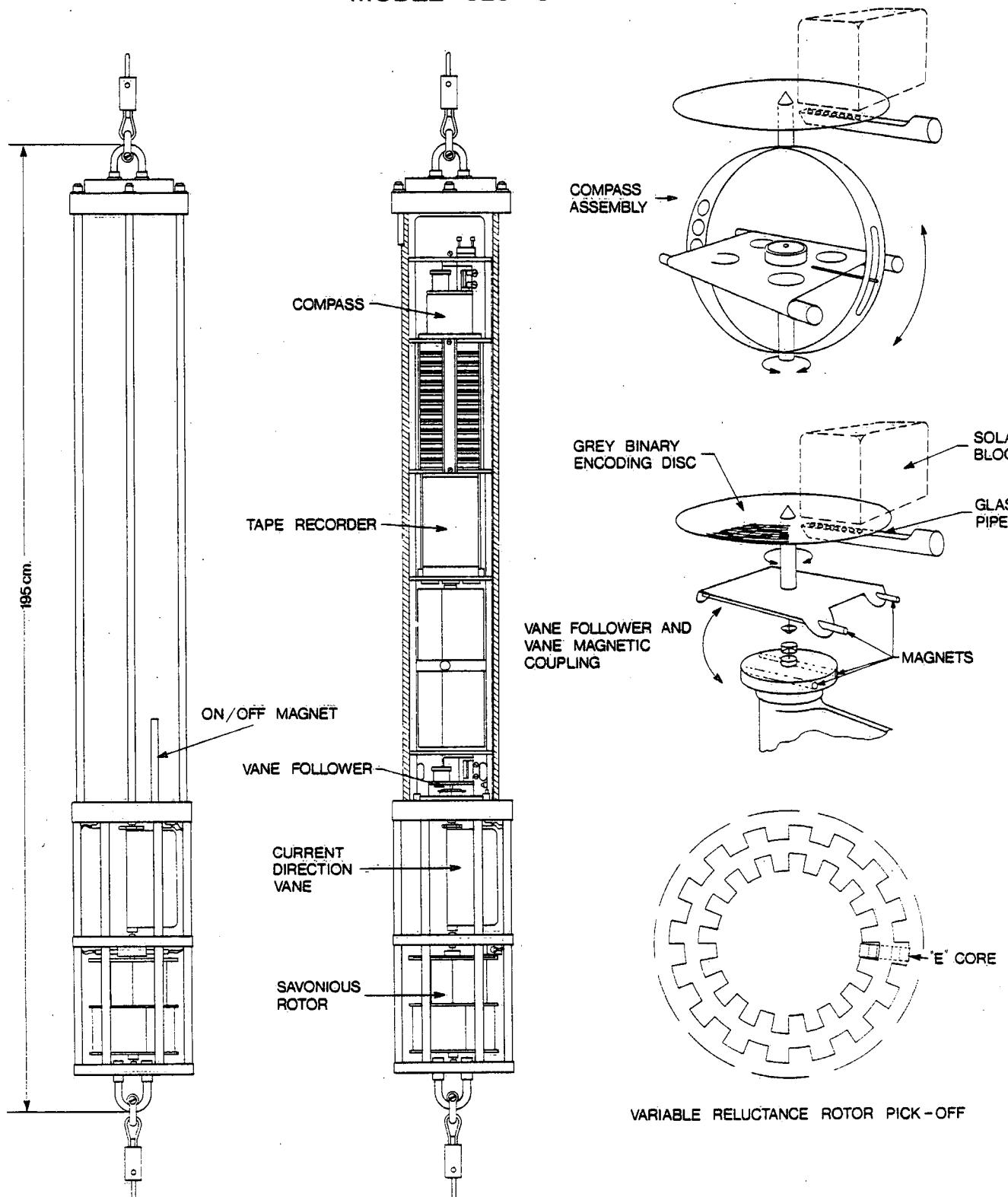
Speed Accuracy: 3% or 3 cm/sec whichever is greater

Direction Sensor: Instantaneous position read on command every scan by solenoid clamping of the compass.

Direction Resolution: 2 degrees compass

Time: Calculated by start time and time per record; no independent clock.

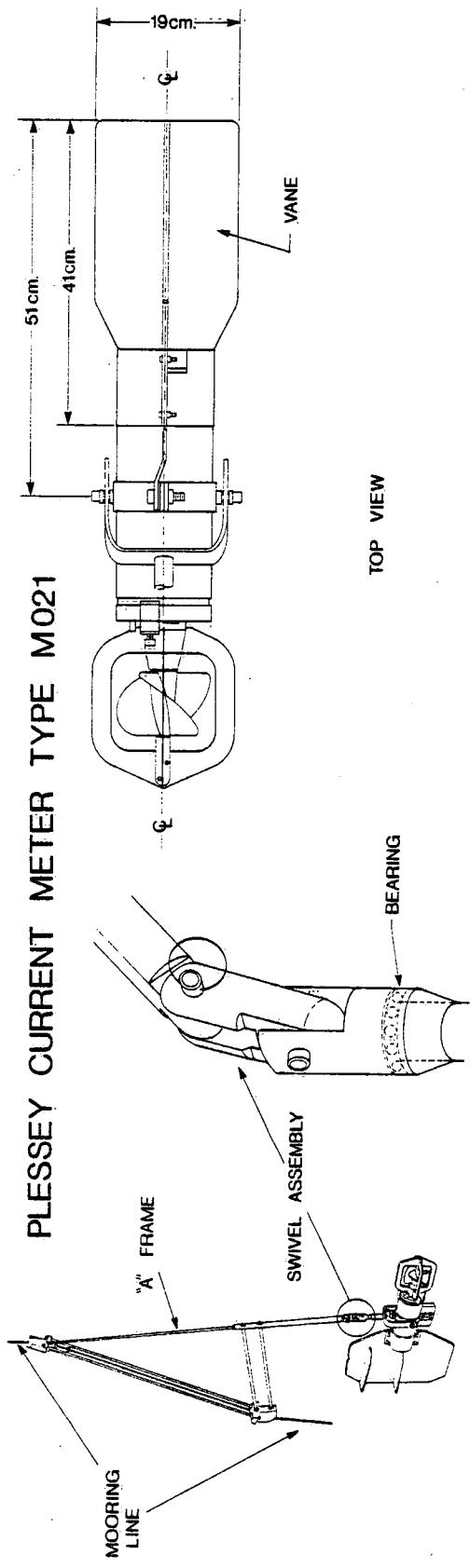
**GEODYNE CURRENT METER
MODEL 920-3**



TAPE FORMAT	16 BIT WORD 18.2 BIT EMPTY	REF 4000 ±1	TEMP -2 TO 35°C ± 0.1°C	TIME 1-ORDINAL OF INTERVAL	IDENT. SER. NO.	SPEED 2 TO 360 cm / s ± 0.5 cm / s	DIRECTION COMPASS + VANE 360° ± 6°	REPEAT TO PERIOD LIMIT (120, 40, 80, 160 SECS.)
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Figure E2

PLESSEY CURRENT METER TYPE M021



METER ATTACHED BY "A" FRAME
TO MOORING LINE.

TOP VIEW

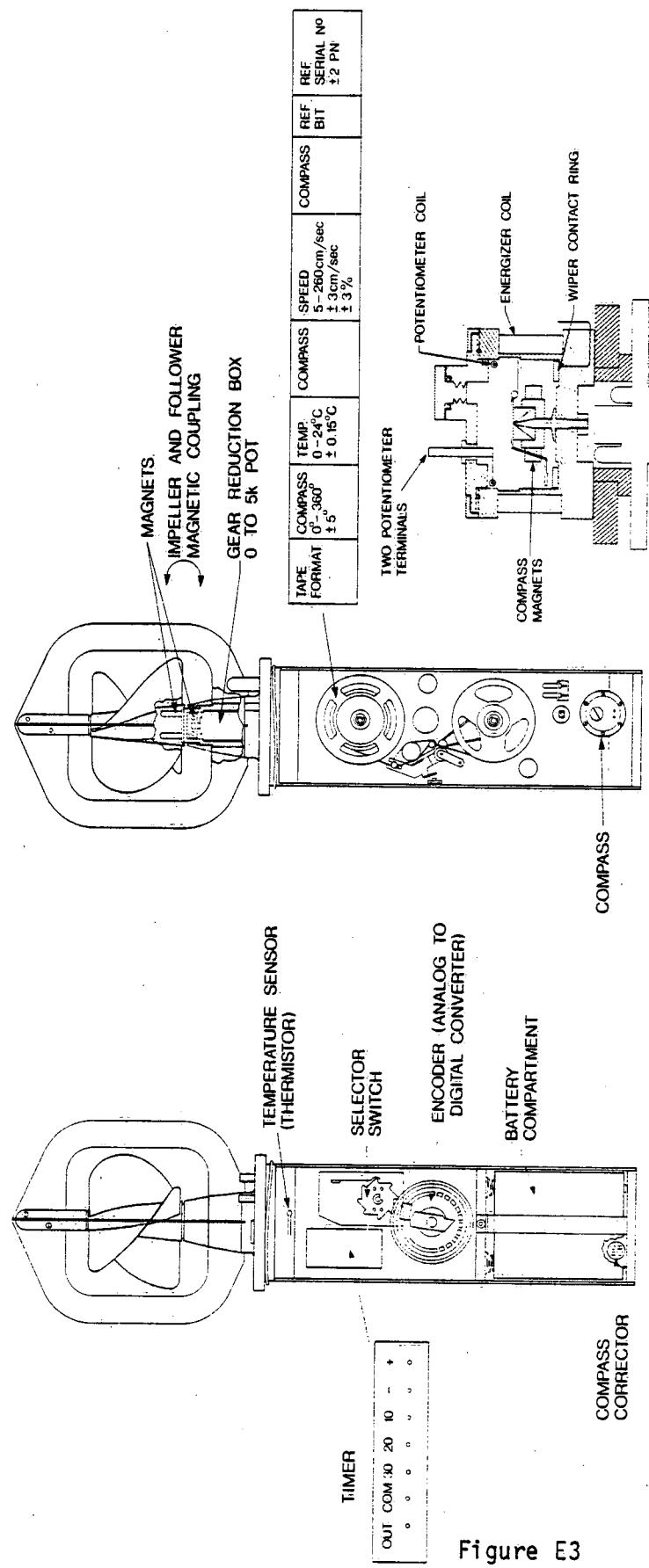


Figure E3

INSTRUMENT SPECIFICATION: CURRENT AND TEMPERATURE STAFF SYSTEM (CATS)

Recording System: Geodyne Type 775-25 Resistance Digitizer

Parameters Recorded: 8 Temperature (max), Tilt, Compass, 2-Component Current and Time.

Recording Medium: 120 Metres (390 ft.) endless loop tape, 6.35 mm (1/4 inch), 2 track, 4.8 megabits, 512 BPI at 64 bits/sec.

Word Size: 16 bit, 12 used for sensors, 14 for time.

Clock Accuracy: ± 10 sec/day cumulative (maximum).

SENSORS*

Temperature: Fenwal 4K isocurve type K2284 with neoprene boots to give 4 min. $\pm 20\%$ time constant. System accuracy ± 30 millidegrees.

Compass: Aanderaa clamped-resistive type, accuracy roughly 5 degrees compass. Used to indicate and monitor true direction of the current meter Y-axis.

Tilt: Humphrey two-axis pendulum - resistive type, damped for a time constant of 7 seconds at 4°C.

Current: Marsh McBirney two-axis electromagnetic current meter type MM501 - threshold approximately 2 cm/sec to a maximum of 50 cm/sec, accuracy approximately ± 1 cm/sec (still undergoing tests to determine specifications).

Sensor Depths: Frame rests on bottom including recorder and batteries. Sensors can be mounted on the buoyant staff or on towers fixed alongside. Surface thermistor is mounted under a float.

*Note that analogue sensors are interfaced to the recorder through a successive approximation type analogue-to-resistive convertor.

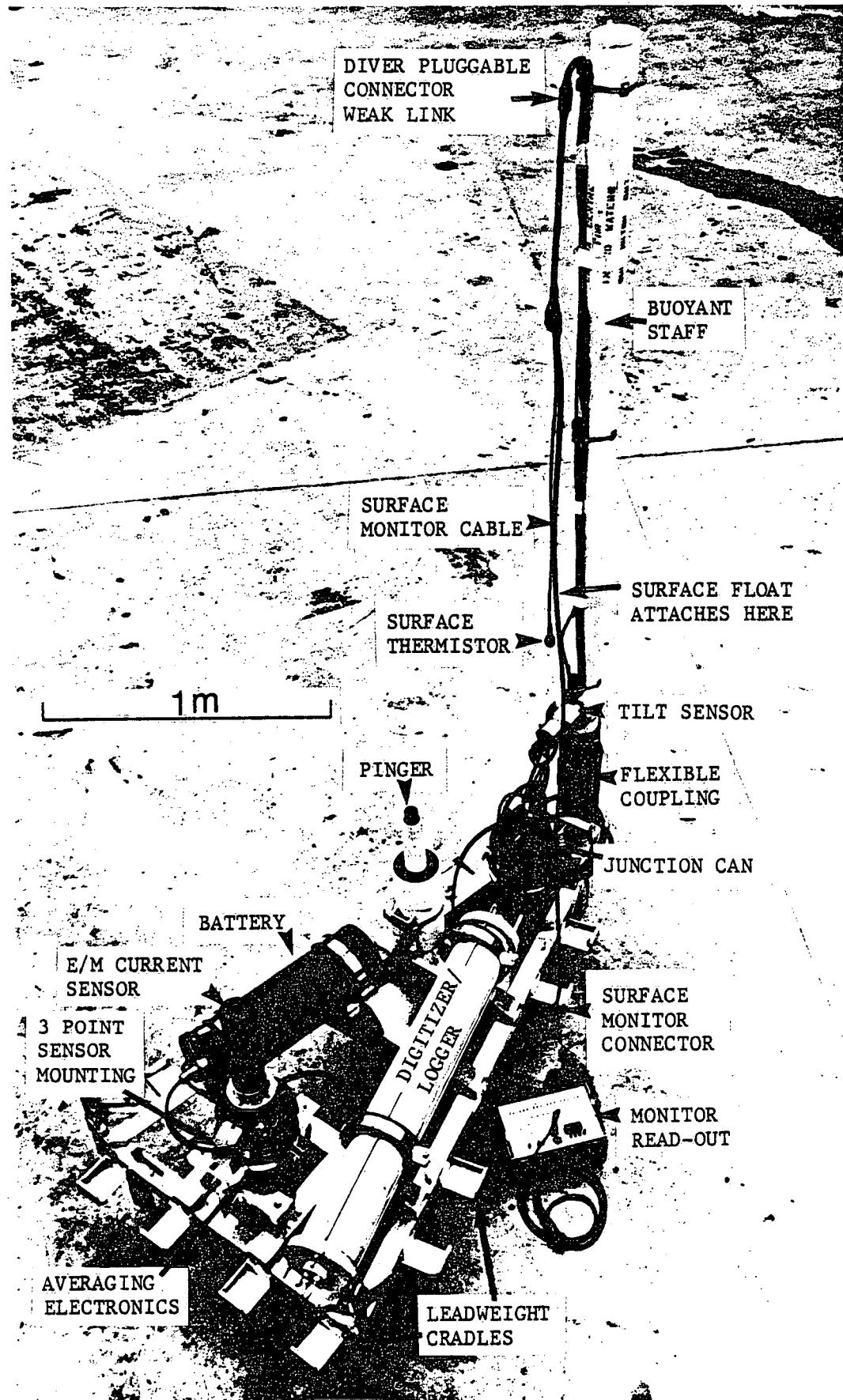


FIGURE 3 PHOTOVIEW OF A PROTOTYPE
CATS SYSTEM

Figure E4

INSTRUMENTATION SPECIFICATION: METEOROLOGICAL SYSTEM¹ (CCIW)

Recording System: Plessey Electronics, Hymet Model MM-1

Recording Medium: 6.35 mm (1/4 inch) magnetic tape reel to reel, 183 metre at 4.3 mm/sec

Parameters Recorded: Windspeed, wind direction, air temperature, and water surface temperature

Word Size: 10 bit

Storage Capacity: 55,000 words

Sampling Rate: 10 minute

Operational Temperature Range: -10°C to 40°C

WIND SPEED SENSOR

Anemometer: 3 cup (Beckman and Whitley; Model 170-41) geared to a single continuous turn potentiometer through a 11106.46:1 speed reducer

Sampling Method: 10 minute average

Accuracy: ±2% above 200 cm sec⁻¹

Static Torque: 0.36 gram-cm max

WIND DIRECTION

Sensor: Single flat-plate vane coupled to an oil-damped magnetic compass

Sampling Method: Instantaneous position read on command every 10 minutes by solenoid clamping of the compass

Accuracy: ±5 degrees

AIR TEMPERATURE

Sensor: YSI No. 44005 Precision Thermistor in a copper heat sink

Range: -10 to +40°C

Accuracy: ±0.1°C with individual calibration

¹ Elder, F.C. and Brady, B.P., 1972. A meteorological buoy system for Great Lakes studies. Environment Canada, IWD Technical Bulletin No. 71.

Time Constant: Approximately 30 seconds without radiation shielding

Exposure: Mounted in a naturally aspirated Thaller type radiation shield²

WATER TEMPERATURE

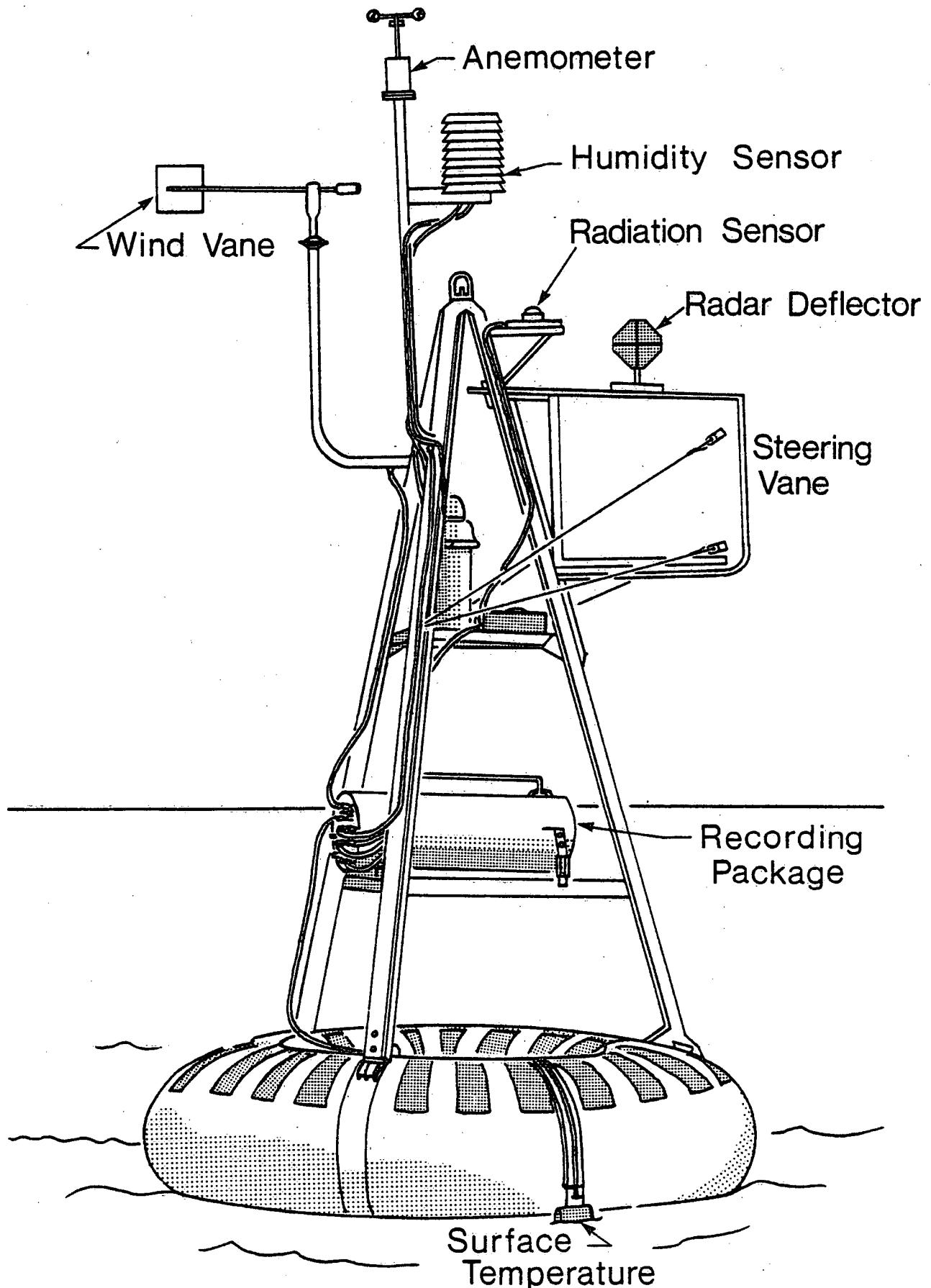
Sensor: YSI No. 44030 Precision Thermistor installed in a 2.5 cm DIA x 15 cm plexiglass housing

Range: -2 to +35^oC

Accuracy: 0.1^oC with individual calibration

Time Constant: Approximately 5 minutes

²Thaller, M., 1970. Practical considerations in instrument design. In *Meteorological Monographs*, 11(33):211-236, American Meteorological Society, Boston, Mass.



TYPICAL CCIW METEOROLOGICAL BUOY

INSTRUMENT SPECIFICATION: FIXED TEMPERATURE PROFILER (FTP) (CCIW)

Recording System: Geodyne type 775-25 resistance digitizer

Parameters Recorded: Temperature, timeword, reference word

Recording Medium: 120 metres (390 ft) endless loop tape, 6.35 mm
(1/4 inch), 2 track, 4.8 megabits, 512 BPI
at 64 bits/second.

Word Size: 16 bits, 12 used for sensors, 14 for timeword

Tape Capacity: 180,000 words (10^4 scans)

Clock Accuracy: ± 10 sec/day cumulative (maximum)

Sensor Type: Fenwal K2284 Thermistors

Time Constant: 4 minutes $\pm 20\%$

No. of Sensors: 18 or 21

System Temperature Accuracy: $\pm 0.030^\circ\text{C}$

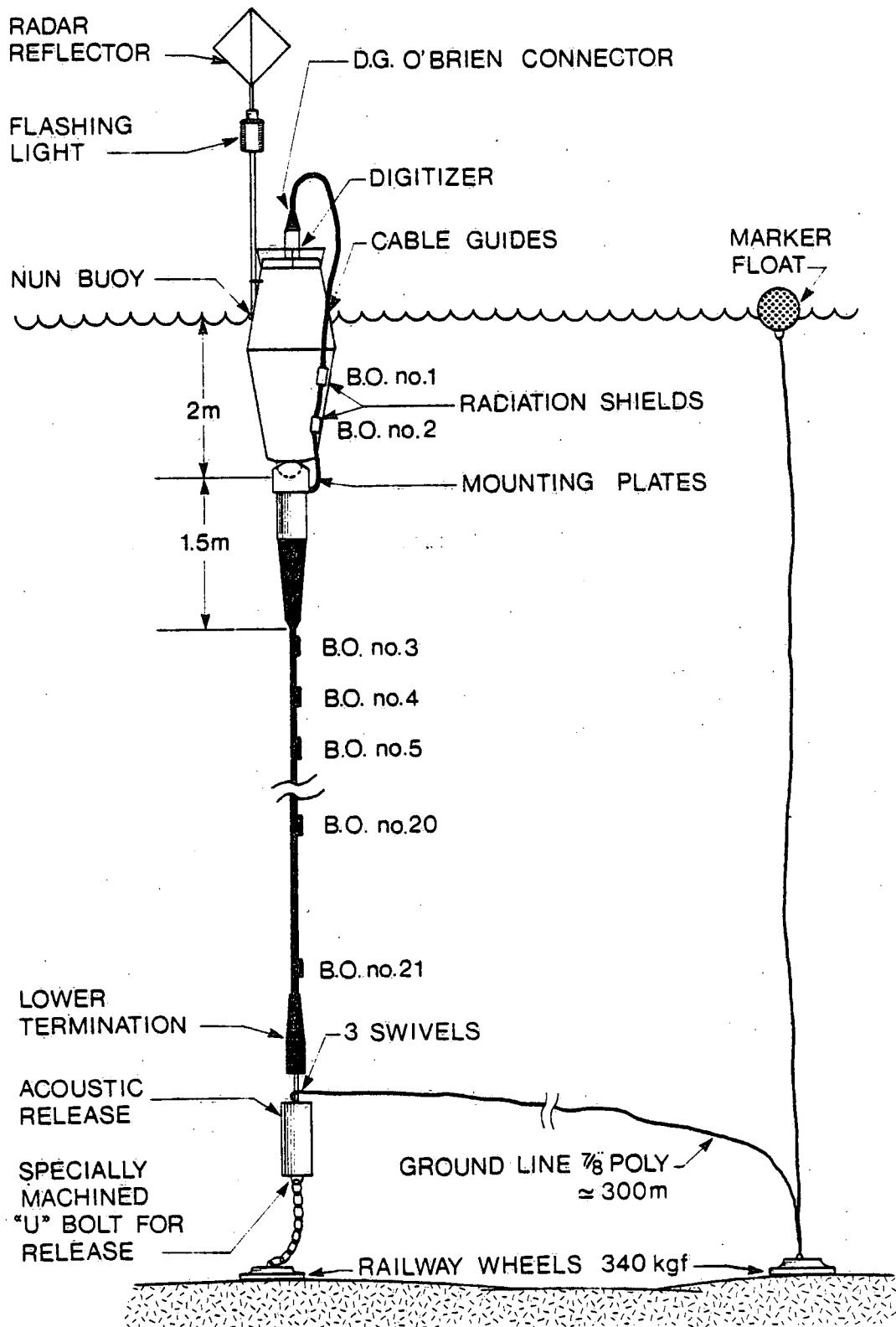
Temperature Range: 0°C to 30°C

Sensor Depths: Surface to bottom spacing as required

System Depth Accuracy: ± 0.5 meters

Mooring Type: Semi-taut

Component Weights: (approximate) Complete digitizer 50 kg
Buoy 215 kg
Cable 180 kg
Acoustic Release 9.5 kg



Typical C.C.I.W. Surface and Upright FTP Mooring

Figure E6

18169

**DATE DUE
REMINDER**

NOV 19 1998

**Please do not remove
this date due slip.**