

**Western Iceland Sea
- Greenland Sea Project -**

**Moored Current Meter Data
Greenland - Jan Mayen
and
Denmark Strait
September 1988 to September 1989**

by

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Icelandic summary - Ágrip -

Þessi skýrsla inniheldur straummælingagögn frá Íslandshafi vestanverðu. Þau eru straumar og stundum hiti og selta mæld allt að árlangt frá september 1988 til september 1989. Mælingar fóru fram með síritandi straummælum sem lagt var við dufl á hinum ýmsu stöðum. Íslendingar, Danir og einnig Hollendingar áttu samvinnu um þessar rannsóknir. Þær voru hluti af alþjóðlegum hafrannsóknum 1987-1991 sem ganga undir heitinu "Greenland Sea Project".

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1. Introduction.

In 1987 the international **GREENLAND SEA PROJECT** under the sponsorship of the Arctic Ocean Sciences Board started having the overall goal to achieve a better understanding of the large scale, long term interactions of air, sea, ice and biota in the Greenland Sea.

A joint Danish-Icelandic contribution to the project has been focussing on the southern limit of the Greenland Sea i.e. the western Iceland Sea, Fig. 1.

The first cruise to the area took place in September 1987 on board the Icelandic research vessel "**BJARNI SÆMUNDSSON.**" Based on the knowledge of the water mass distribution obtained during the 1987 cruise eight current meter moorings with a total of 27 current meters were deployed during the second cruise in September 1988, Fig. 2 and Table 1.

Seven out of these eight moorings were successfully recovered during the third cruise in September 1989. One mooring, situated on the Greenland shelf, could not be reached due to drift ice in 1989, but was recovered in September 1990.

Current meters were kindly made available to the project by:

Netherlands Institute for Sea Research, den Burg, Texel.
Marine Research Institute, Reykjavík.
Geophysical Institute, University of Copenhagen.
Institute of Marine Research, University of Hamburg.

The results of the measurements are presented in this report.

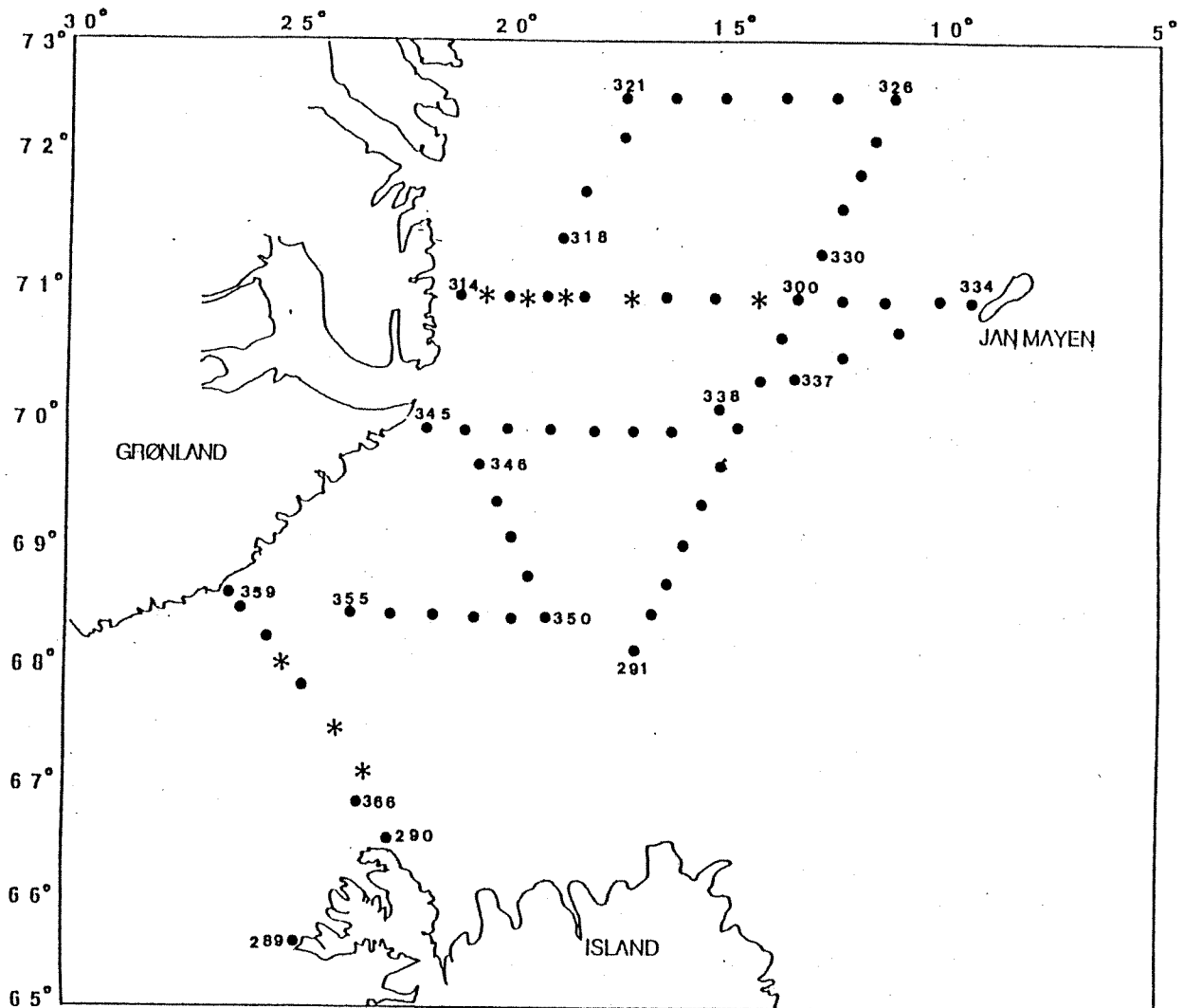


Figure 1. Location of CTD stations in September 1988 and current meter stations (stars) from September 1988 to September 1989 / Greenland - Jan Mayen and Denmark Strait sections.

2. Technical description of the current meters.

During the 1988 - 1989 measuring period two types of current meters were used:

12 NBA model DNC-2M

15 Aanderaa model RCM4, RCM5 and RCM7.

6 of the NBA current meters were equipped with a pressure sensor and 6 with a conductivity sensor. The sampling interval was 30 minutes.

13 of the Aanderaa current meters had a pressure sensor and 7 a conductivity sensor. The sampling interval was 60 minutes.

Technical specifications of the NBA current meter:

Velocity:	Range:	0 - 500 cm/s
	Accuracy:	+/- 1 cm/s or 2% of actual value, whichever is greater.
	Starting velocity:	3 cm/s.
	Resolution:	1 bit equal to 18.26 cm water run.
Direction:	Range:	0 - 360°
	Resolution:	1.4°
	Accuracy:	+/- 5°
Temperature:	Range:	-8.75 - 47.5°C
	Resolution:	0.01°C
	Accuracy:	+/- 0.2°C
Conductivity:	Range:	0 - 100 mmho/cm
	Resolution:	12 bits
	Accuracy:	+/- 0.2 mmhos over range 3 - 85 mmhos
Depth:	Range:	0 - 3000 m
	Resolution:	12 bits
	Accuracy:	+/- 0.5%

Technical specifications of the Aanderaa current meter:

Velocity:	Range:	2.0 - 250 cm/s
	Accuracy:	+/- 1 cm/s, or 2% of actual value, whichever is greater.
	Starting velocity:	2.0 cm/s
Direction:	Range:	0 - 360°
	Resolution:	0.35°
	Accuracy:	+/- 7.5° for velocity within 2.5 - 5 cm/s or 100 - 200 cm/s, +/- 5° for velocity within 5 - 100 cm/s
Temperature:	Range:	-2.46 to 21.4°C
	Resolution:	0.1%
	Accuracy:	+/- 0.05°C
Conductivity:	Range:	0 - 77 mmho/cm
	Resolution:	0.1%
	Accuracy:	+/- 0.025 mmho/cm
Depth:	Range:	variable
	Resolution:	0.1%
	Accuracy:	+/- 1%

3. Data processing.

After recovery of the moored instruments the current meter data (speed, direction, temperature, pressure and conductivity as applicable) were processed in the following way:

1. Raw data were converted to scientific values and checked for errors. In the few instances of erroneous spikes a linear interpolation was performed.
2. A 2 X 25 hour running mean filter has been applied (Bartlett filter) to the time series for smoothing. From these low passed values, the following were prepared:
3. Tables of monthly mean values and their deviations were calculated for the velocity components (U and V), temperature and salinity.
4. Progressive vector diagrams were plotted, both continuous with circles denoting 14 days intervals (NBA) and based on monthly means with dots denoting the beginning of each month (AA). The start is always at (0,0) and the vertical axis denotes north-south displacement and the horizontal axis east-west displacement in kilometers.
5. Graphs were made of filtered velocity components (U and V), temperature and salinity as a function of time (day number with respect to the year 1988).
6. Frequency histograms were made of filtered total velocity, direction, temperature and salinity.
7. The smoothed version of the velocity components was sub-sampled every 12 hours to create stick diagrams, i.e. the current vector was plotted as a function of time every 12 hours. The stick diagrams are shown for every month of observation and the velocity scale is shown in the figures.
8. Frequency spectra of the velocity components, temperature and salinity were calculated from the raw data and then smoothed (modified Daniell, span = 11) and plotted. The power spectra, as functions of frequency, are displayed in two ways. The power spectrum from the AA meters is in deciBells $(cm/s)^2$ as a function of cycles per hour (cph), but from the NBA meters in $(m/s)^2$ as a function of cycles per day (cpd). Vertical lines have been inserted to indicate for reference the frequency of the inertial (f), semi-diurnal principal lunar (M2) and solar (S2), diurnal luni-solar (K1) and principal lunar (O1), and the spring tides (MSF).

In the following, tables (1a,b) are presented that give information on the measurements: the deployment depths, the length of the observations and what is measured at each instrument. Secondly, tables (2a,b) of mean filtered values and deviations are presented.

Finally, the data are displayed for every instrument according to the description (2-8) above.

Note that experience has shown that salinity values from our instruments have to be taken with great reservation.

The above method was applied to Aanderaa (AA) current meters that measured every 60 minutes and NBA current meters that measured every 30 minutes. Processing was done at the Marine Research Institute, Reykjavík Iceland and the Netherlands Institute for Sea Research, respectively.

4. Acknowledgement

The joint Danish - Icelandic contribution to the Greenland Sea Project was made possible with contribution from the Icelandic Althing, the Danish National Science Council, the Danish Council for Scientific and Industrial Research and the Commission for Scientific Research in Greenland. We wish to thank the captain and the crew of R/V Bjarni Sæmundsson for the support and also participating colleagues. Prof. Jens Meincke at the University of Hamburg and Dr. Robert R. Dickson at the Marine Research Institute in Lowestoft are especially thanked for providing current meters for the project.

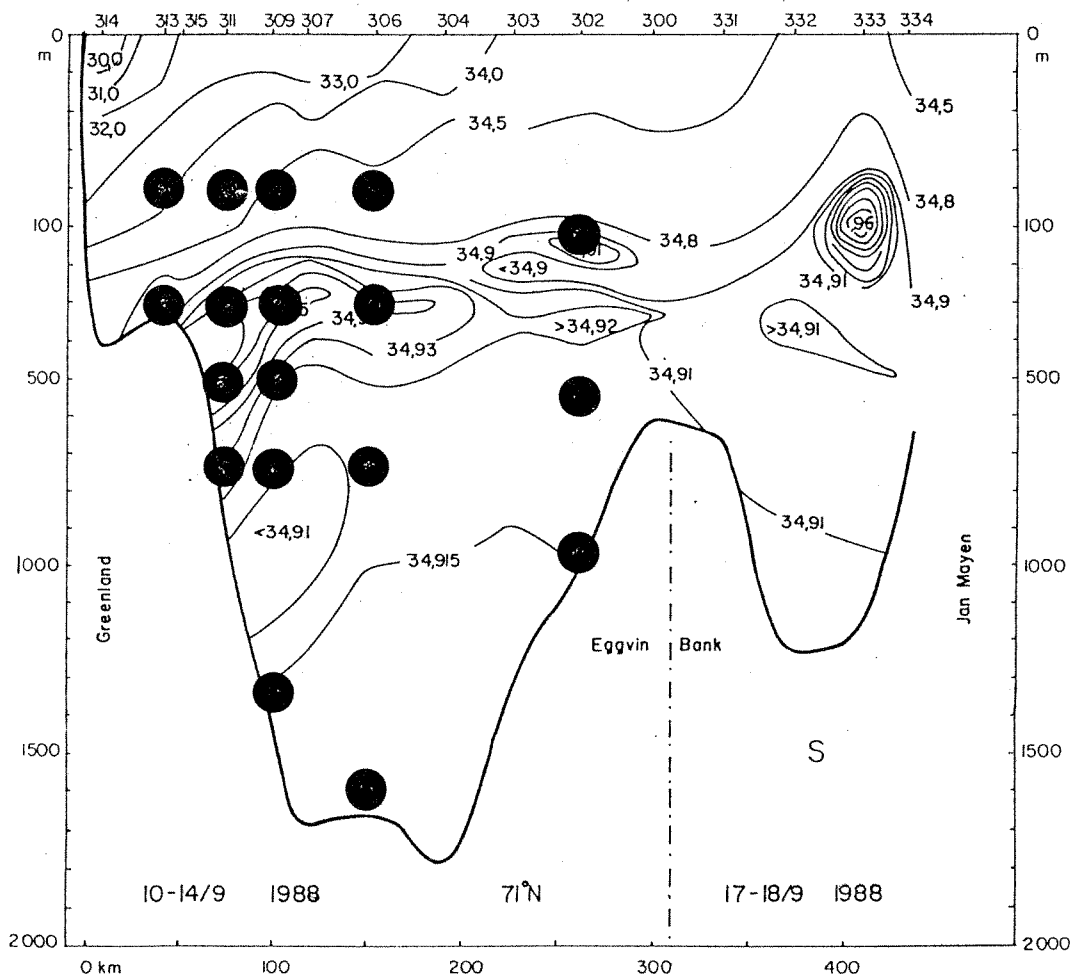
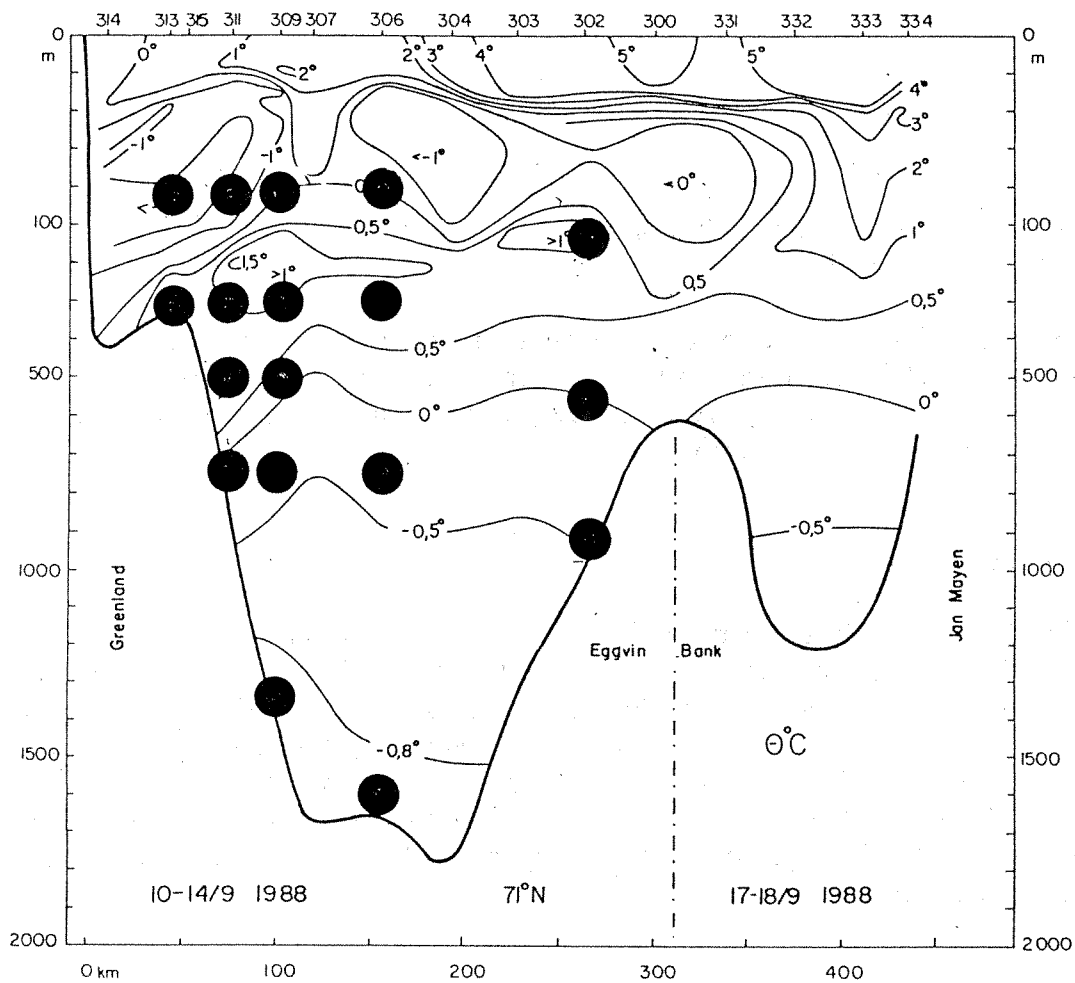


Figure 2a. Potential temperature and salinity from Greenland - Jan Mayen section, $71^{\circ}00'\text{N}$ in September 1988 and location of current meters deployed during the period September 1988 - September 1989.

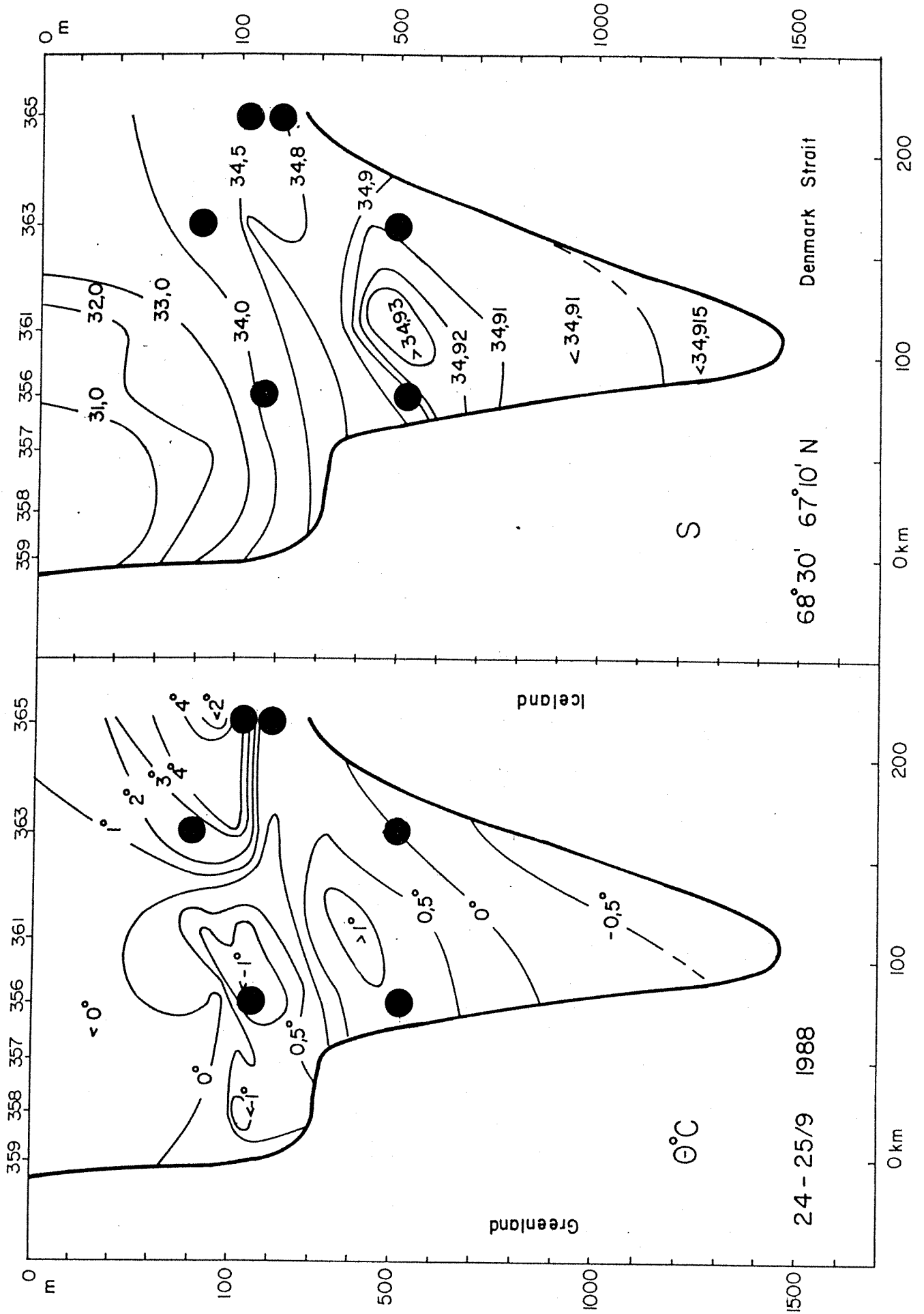


Figure 2b. Potential temperature and salinity from Denmark Strait section in September 1988 and location of current meters deployed during the period September 1988 - September 1989.

Table 1a: GSP: 71°N Section, 1988-1989. Instruments, Locations, Depths, Deployment Times and Variables measured.

Site	Latitude °N	Longitude °W	Bottom Depth, m	Record number	Meter Depth, m	Start Time	Duration hrs	Data meas.
IS1	70 59	20 26	327	AA733202	85	September 14, 1988	9960	u,α,T,p,S
IS1	70 59	20 26	327	AA010501	307	September 14, 1988	8840	u,α,T,p,S
IS2	70 59	19 28	822	NBA080	80	September 14, 1988	4809	u,α,T,p,S
IS2	70 59	19 28	822	NBA075	300	September 14, 1988	3878	u,α,T,p,S
IS2	70 59	19 28	822	NBA105	500	September 14, 1988	5496	u,α,T,p,S
IS2	70 59	19 28	822	NBA090	750	September 14, 1988	3442	u,α,T,p
IS3	70 59	18 50	1423	NBA083	80	September 13, 1988	4615	u,α,T,p,S
IS3	70 59	18 50	1423	NBA070	300	September 13, 1988	3823	u,α,T,p,S
IS3	70 59	18 50	1423	NBA108	500	September 13, 1988	4944	u,α,T,p,S
IS3	70 59	18 50	1423	AA685101	750	September 13, 1988	6352	u,α,T,p,S
IS3	70 59	18 50	1423	NBA089	1350	September 13, 1988	4319	u,α,T,p
IS4	71 00	17 18	1667	NBA085	80	September 12, 1988	4800	u,α,T,p,S
IS4	71 00	17 18	1667	NBA078	300	September 12, 1988	3896	u,α,T,p,S
IS4	71 00	17 18	1667	NBA109	750	September 12, 1988	4830	u,α,T,p
IS4	71 00	17 18	1667	NBA072	1600	September 12, 1988	4562	u,α,T,p
IS5	70 59	14 20	1037	AA685201	117	September 11, 1988	8780	u,α,T,p,S
IS5	70 59	14 20	1037	AA0172	337	September 11, 1988	0	
IS5	70 59	14 20	1037	AA133401	537	September 11, 1988	8780	u,α,T
IS5	70 59	14 20	1037	AA670205	987	September 11, 1988	8780	u,α,T

Table 1b: GSP: Denmark Strait section 1988-1989. Instruments, Locations, Depths, Deployment Times and Variables measured.

Site	Latitude °N	Longitude °W	Bottom Depth, m	Record number	Meter Depth, m	Start Time	Duration hrs	Data meas.
IS6	68 09	25 12	819	AA6846	80	September 24, 1988	0	
IS6	68 09	25 12	819	AA790208	168	September 24, 1988	6633	u, α ,T,p,S
IS6	68 09	25 12	819	AA874402	519	September 24, 1988	8694	u, α ,T,p
IS7	67 32	23 43	800	AA684506	80	September 25, 1988	8660	u, α ,T
IS7	67 32	23 43	800	AA6836	150	September 25, 1988	0	
IS7	67 32	23 43	800	AA828604	500	September 25, 1988	8662	u, α ,T,p,S
IS8	67 09	22 54	248	AA939401	123	September 25, 1988	6108	u, α ,T,p,S
IS8	67 09	22 54	248	AA388111	198	September 25, 1988	8372	u, α ,T

Table 2a: GSP: 71°N section 1988-1989. Means and deviations of filtered current speed, temperature and salinity.

Site	Meter Depth, m	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu mean (st.dev.)
IS1	85	0.016 (0.055)	-0.096 (0.087)	-1.71 (0.11)	33.52 (0.50)
IS1	307	0.022 (0.042)	-0.056 (0.058)	0.04 (0.66)	34.84 (0.11)
IS2	80	-0.017 (0.023)	-0.123 (0.046)	-1.60 (0.14)	32.81 (0.31)
IS2	300	-0.025 (0.024)	-0.050 (0.043)	1.06 (0.15)	33.29 (0.37)
IS2	500	-0.005 (0.042)	-0.039 (0.051)	0.75 (0.12)	35.08 (0.10)
IS2	750	-0.031 (0.026)	-0.044 (0.037)	0.12 (0.29)	
IS3	80	-0.019 (0.028)	-0.142 (0.057)	-1.32 (0.61)	32.80 (0.47)
IS3	300	-0.027 (0.025)	-0.099 (0.054)	0.76 (0.12)	34.96 (0.09)
IS3	500	-0.015 (0.015)	-0.102 (0.046)	0.58 (0.19)	35.09 (0.08)
IS3	750	-0.016 (0.015)	-0.076 (0.036)	-0.10 (0.13)	34.91 (0.05)
IS3	1350	-0.012 (0.015)	-0.048 (0.042)	-0.60 (0.11)	
IS4	80	0.001 (0.027)	0.015 (0.055)	-1.05 (0.65)	33.19 (0.46)
IS4	300	0.010 (0.048)	0.020 (0.044)	1.22 (0.15)	33.66 (0.27)
IS4	750	0.006 (0.027)	0.030 (0.028)	-0.33 (0.09)	
IS4	1600	-0.003 (0.017)	0.045 (0.035)	-0.92 (0.31)	
ISS	117	-0.017 (0.020)	0.018 (0.028)	-0.60 (1.21)	34.22 (0.25)
ISS	537	-0.025 (0.015)	-0.004 (0.007)	0.17 (0.06)	
ISS	987	0.024 (0.017)*	-	-. (1.64)	

The table is not based on the same time intervals.

* denotes speed (no information of direction)

Table 2b: GSP: Denmark Strait section 1988-1989. Means and deviations of filtered current speed, temperature and salinity.

Site	Meter Depth, m	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu mean (st.dev.)
IS6	168	-0.023 (0.102)	-0.081 (0.115)	-1.58 (0.35)	34.04 (0.36)
IS6	519	-0.007 (0.071)	-0.020 (0.096)	0.59 (0.43)	
IS7	80	-0.109 (0.060)	-0.062 (0.074)	0.20 (1.27)	
IS7	500	-0.082 (0.058)	-0.068 (0.049)	0.01 (0.12)	34.90 (0.02)
IS8	123	0.126 (0.126)	-0.041 (0.069)	3.25 (1.31)	34.85 (0.12)
IS8	198	0.110 (0.095)	-0.001 (0.050)	2.12 (1.39)	

The table is not based on the same time intervals.

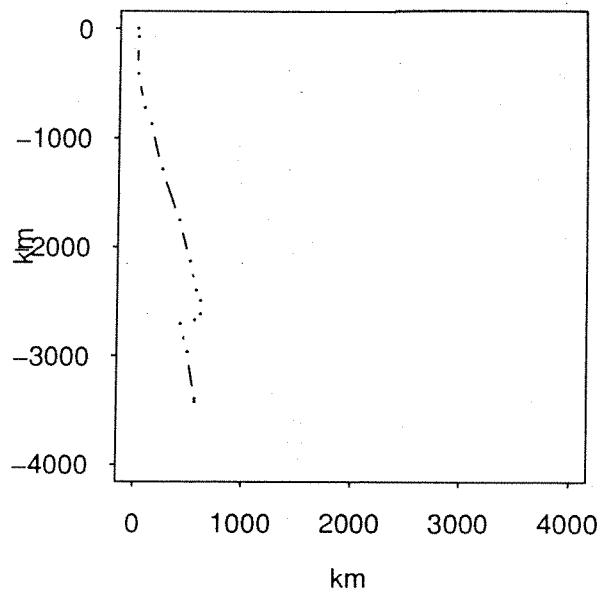
GREENLAND - JAN MAYEN
71°N

AA733202
IS1 - 85m

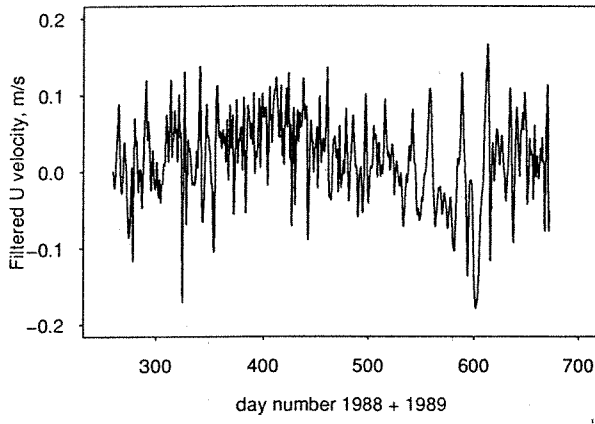
GSP-IS1-85m, 71°N section, 16/9/88-3/11/89. Means and deviations of filtered current, temperature and salinity

Period (month)	U, east comp. m/s mean(st.dev.)	V, north comp. m/s mean(st.dev.)	Temperature °C mean(st.dev.)	Salinity psu mean(st.dev.)
Total:	0.016 (0.055)	-0.096 (0.087)	-1.71 (0.11)	33.52 (0.50)
Sep 88	0.007(0.036)	-0.056(0.026)	-1.50(0.03)	34.01(0.09)
Oct 88	0.001(0.047)	-0.126(0.060)	-1.60(0.05)	33.00(0.18)
Nov 88	0.025(0.053)	-0.122(0.066)	-1.70(0.06)	33.02(0.23)
Dec 88	0.025(0.053)	-0.054(0.079)	-1.73(0.03)	33.30(0.11)
Jan 89	0.039(0.036)	-0.155(0.056)	-1.76(0.03)	33.62(0.16)
Feb 89	0.070(0.033)	-0.193(0.084)	-1.77(0.03)	34.01(0.09)
Mar 89	0.038(0.044)	-0.140(0.078)	-1.77(0.04)	34.19(0.11)
Apr 89	0.023(0.039)	-0.101(0.050)	-1.78(0.02)	33.79(0.28)
May 89	0.014(0.038)	-0.036(0.047)	-1.78(0.04)	34.05(0.13)
Jun 89	0.000(0.033)	-0.047(0.032)	-1.78(0.03)	33.94(0.07)
Jul 89	-0.019(0.048)	-0.021(0.074)	-1.73(0.03)	33.67(0.19)
Aug 89	-0.049(0.076)	-0.013(0.088)	-1.73(0.04)	33.25(0.29)
Sep 89	0.025(0.061)	-0.102(0.056)	-1.69(0.02)	33.01(0.19)
Oct 89	0.026(0.038)	-0.159(0.090)	-1.52(0.23)	32.76(0.25)
Nov 89	0.011(0.076)	-0.205(0.086)	-1.74(0.04)	32.85(0.29)

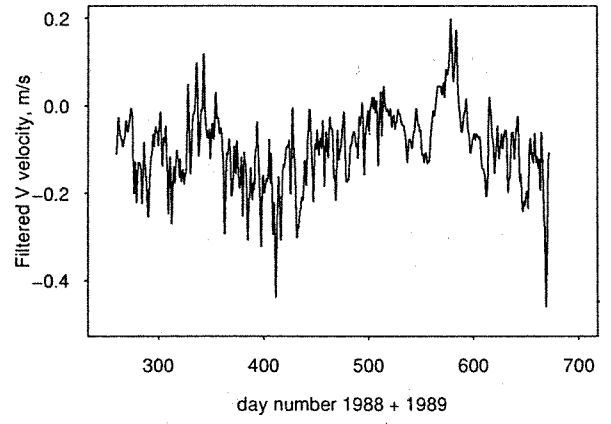
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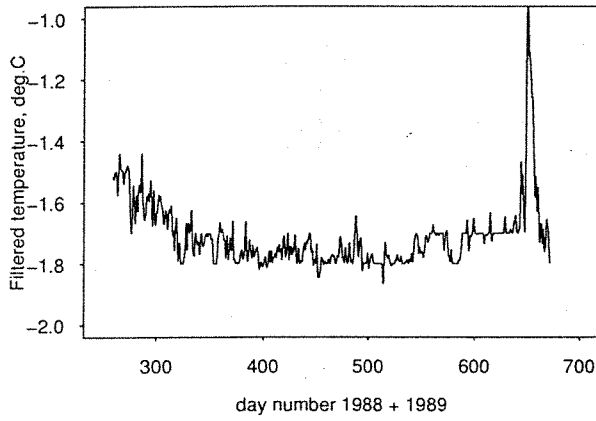
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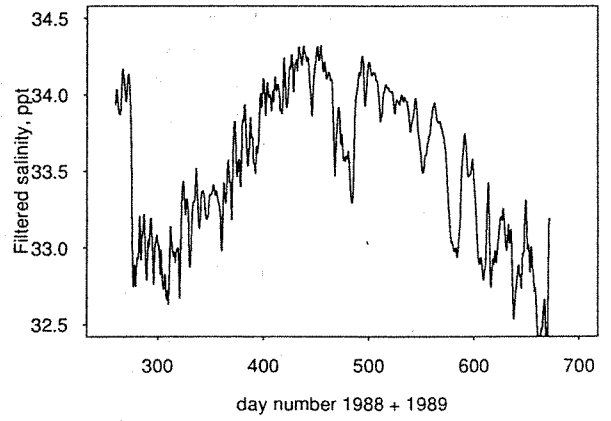
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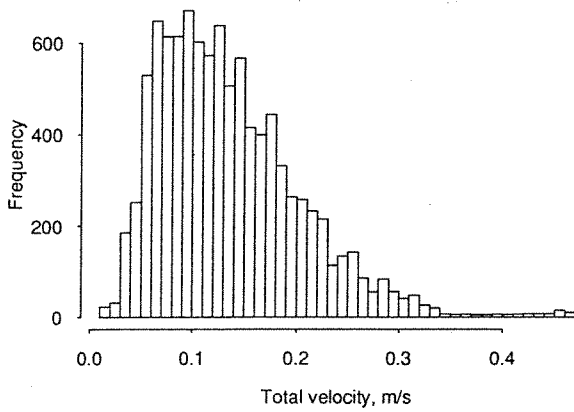
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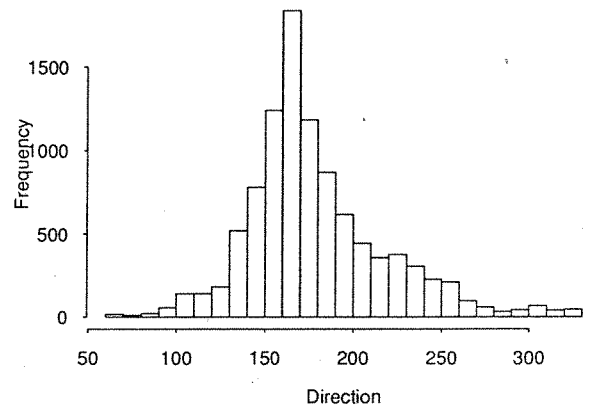
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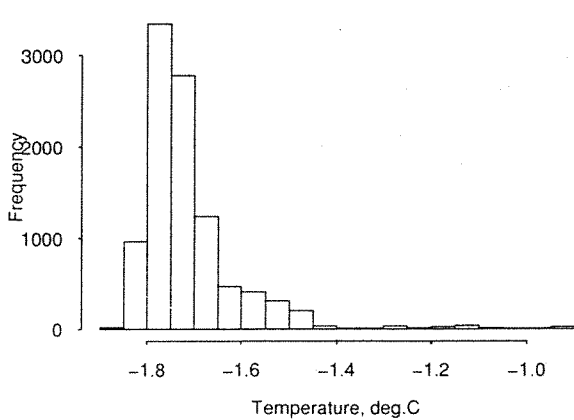
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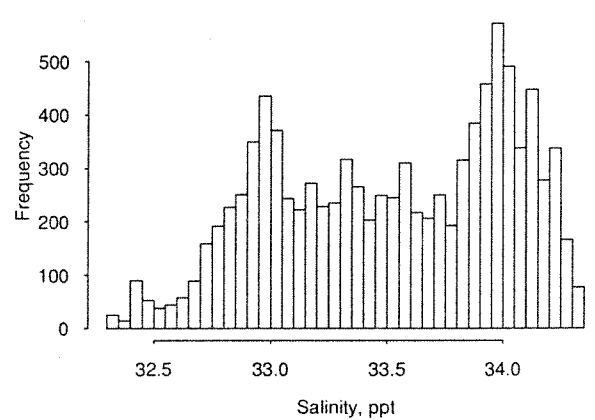
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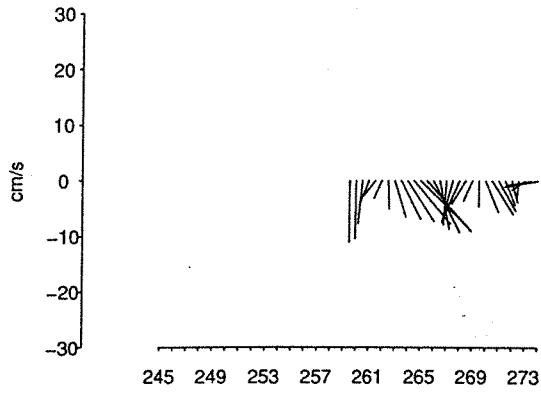
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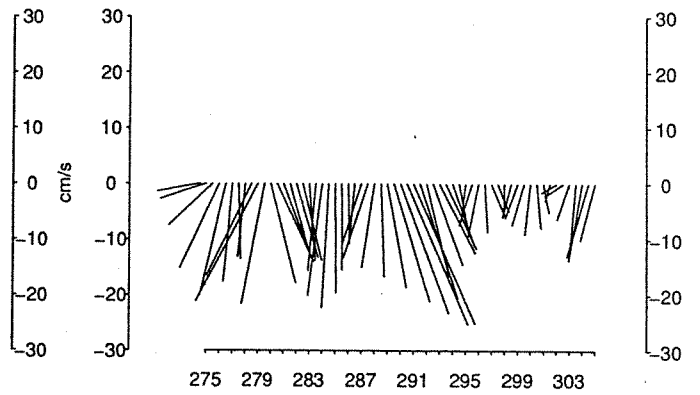
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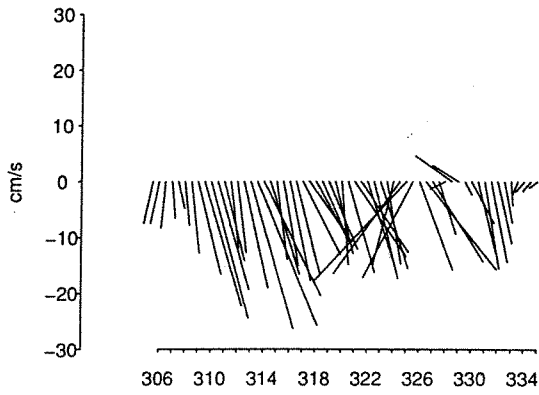
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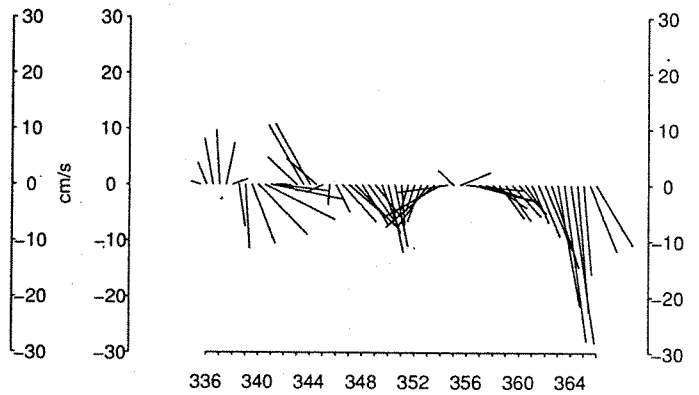
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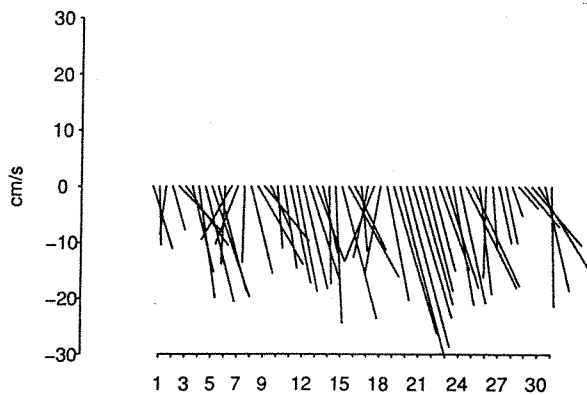
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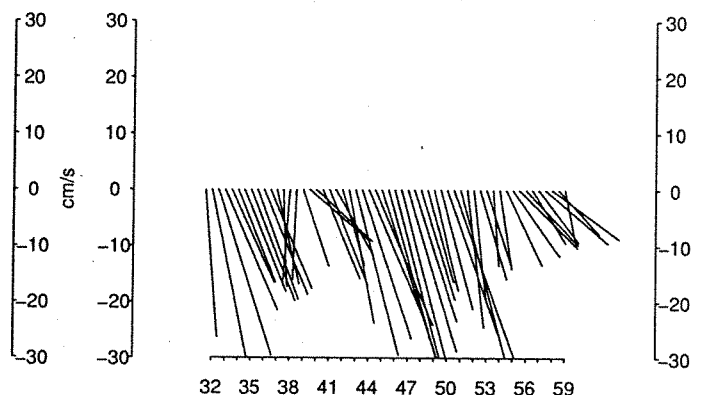
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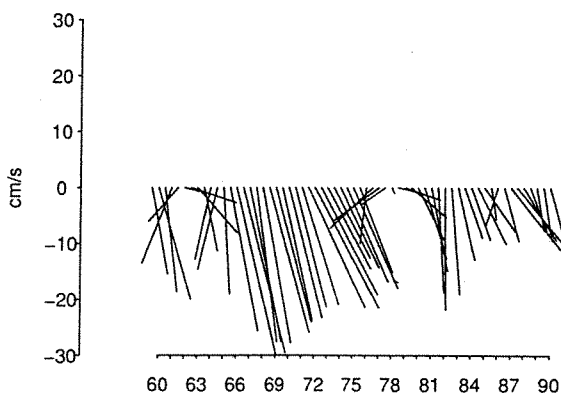
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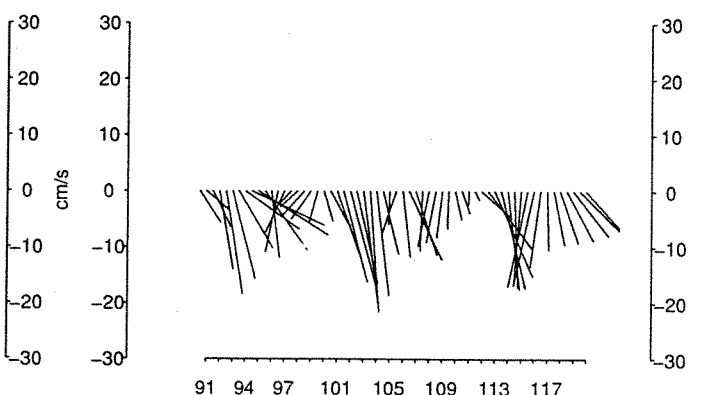
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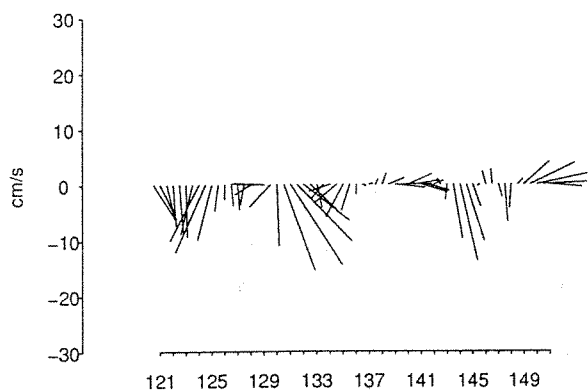
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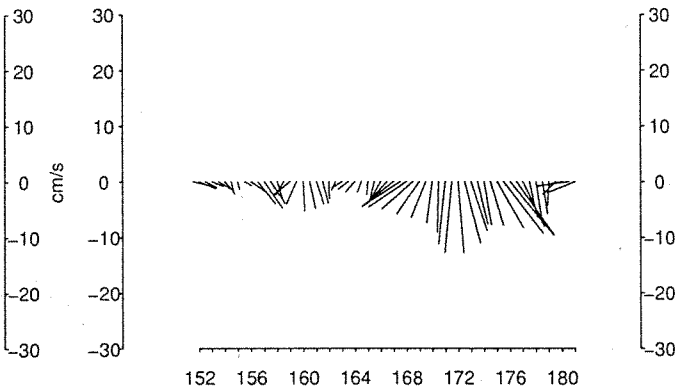
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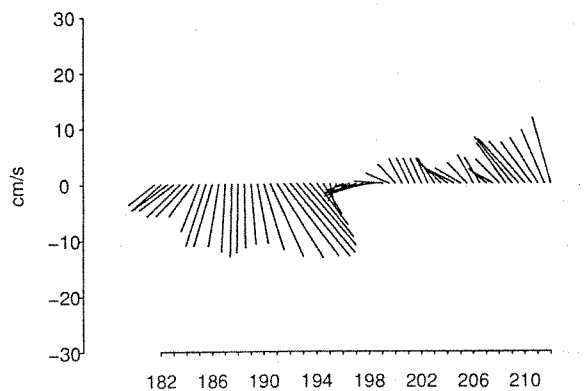
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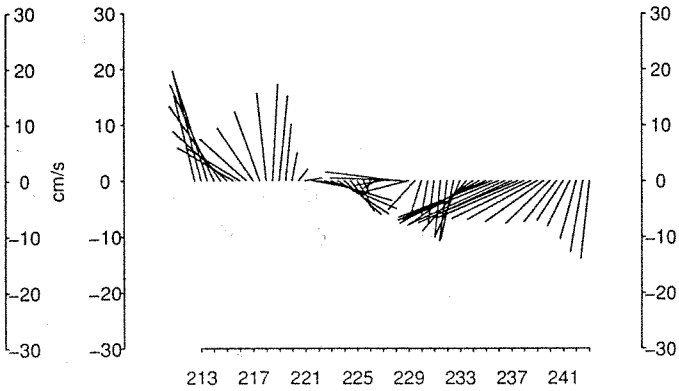
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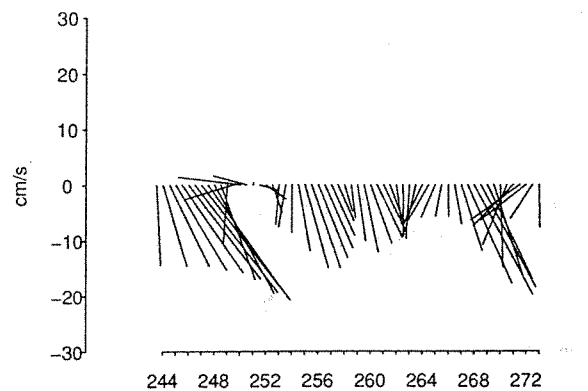
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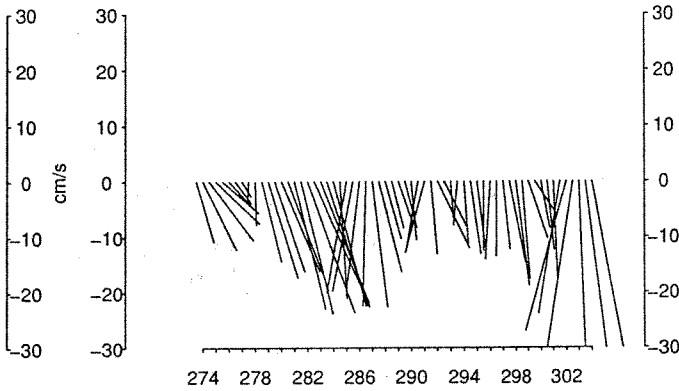
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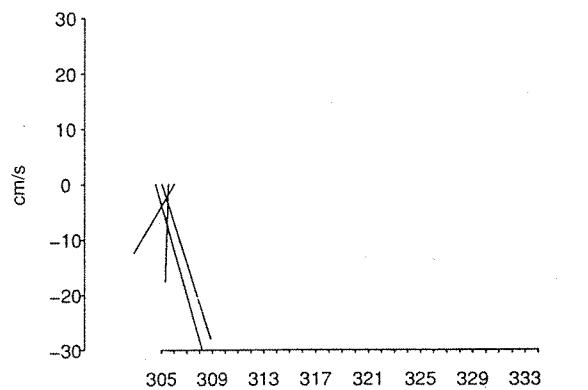
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GSP-IS1-85m, OCTOBER 1989

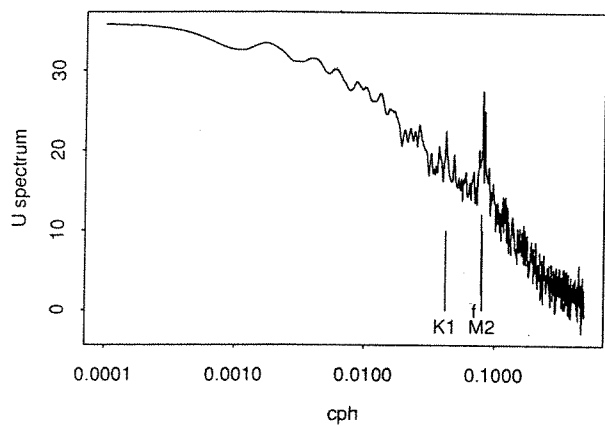


GSP-IS1-85m, NOVEMBER 1989

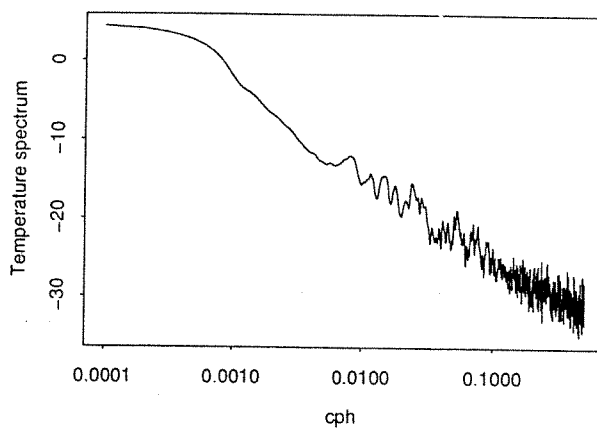


Day number 1989

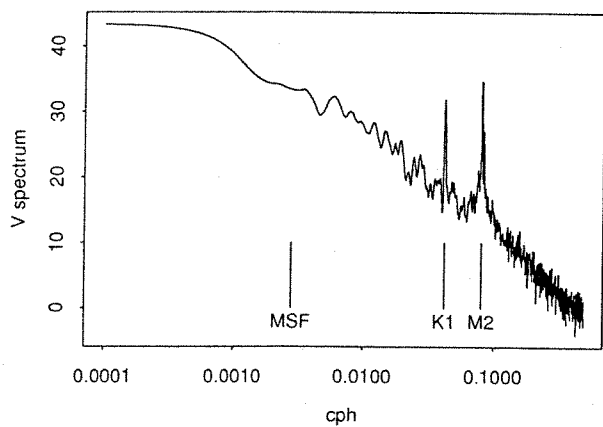
GSP-IS1-85m



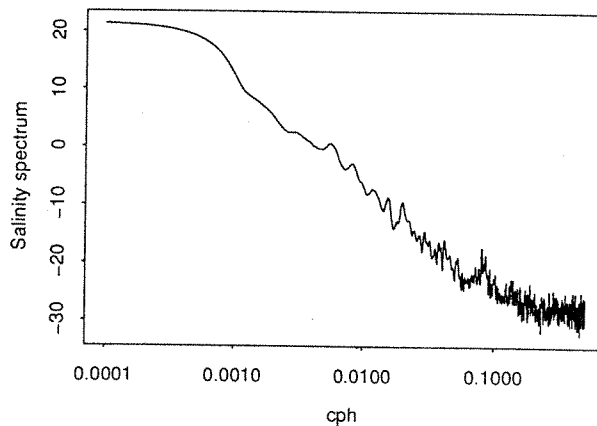
GSP-IS1-85m



GSP-IS1-85m



GSP-IS1-85m

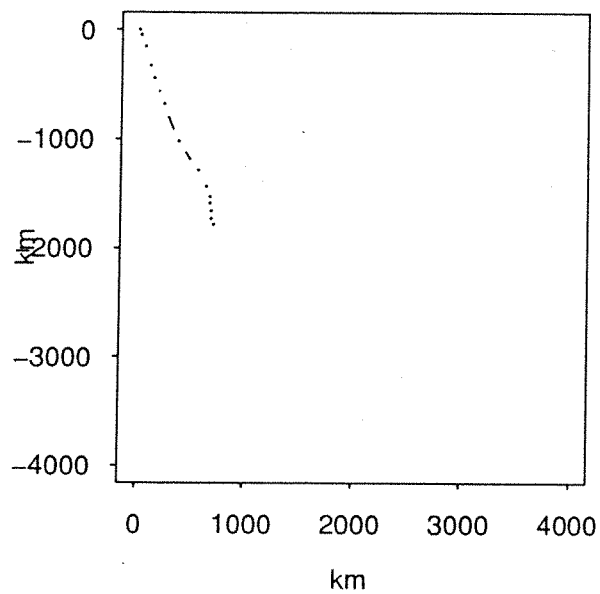


AA010501
IS1 - 307m

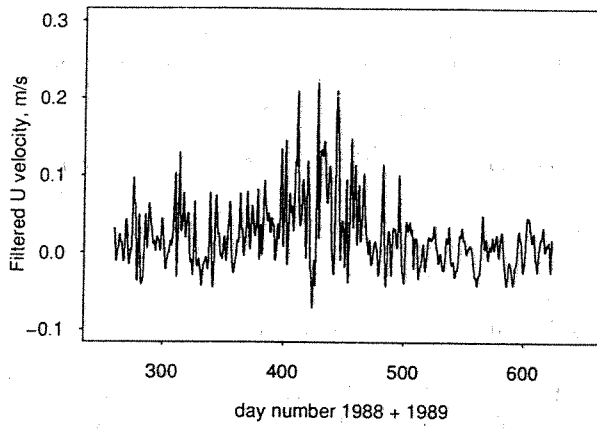
GSP-IS1-307m, 71°N section, 16/9/88-16/9/89. Means and deviations of filtered current, temperature and salinity

Period (month)	U, east comp. m/s mean(st.dev.)	V, north comp. m/s mean(st.dev.)	Temperature °C mean(st.dev.)	Salinity psu mean(st.dev.)
Total:	0.022 (0.042)	-0.056 (0.058)	0.04 (0.66)	34.84 (0.11)
Sep 88	0.008(0.016)	-0.038(0.019)	0.66(0.05)	35.07(0.01)
Oct 88	0.016(0.031)	-0.040(0.034)	0.61(0.11)	34.95(0.04)
Nov 88	0.019(0.040)	-0.068(0.057)	0.62(0.16)	34.92(0.03)
Dec 88	0.014(0.030)	-0.041(0.042)	0.62(0.13)	34.91(0.02)
Jan 89	0.034(0.024)	-0.091(0.039)	0.43(0.15)	34.87(0.03)
Feb 89	0.058(0.057)	-0.140(0.079)	0.08(0.15)	34.80(0.03)
Mar 89	0.068(0.068)	-0.098(0.087)	-0.76(0.66)	34.77(0.08)
Apr 89	0.032(0.044)	-0.058(0.043)	-0.99(0.42)	34.72(0.05)
May 89	0.012(0.027)	-0.035(0.038)	-0.68(0.38)	34.75(0.07)
Jun 89	0.001(0.018)	-0.024(0.016)	-0.49(0.38)	34.71(0.17)
Jul 89	0.003(0.020)	-0.026(0.021)	0.22(0.31)	34.85(0.07)
Aug 89	0.001(0.025)	-0.027(0.024)	0.34(0.20)	34.83(0.04)
Sep 89	0.005(0.015)	-0.030(0.022)	0.36(0.14)	34.82(0.03)

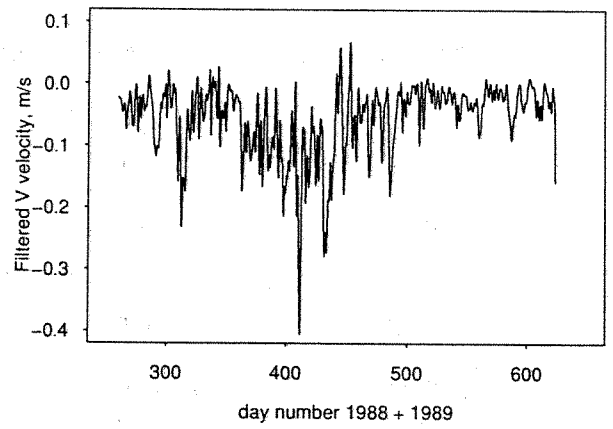
Prog.Vector GSP-IS1-307m



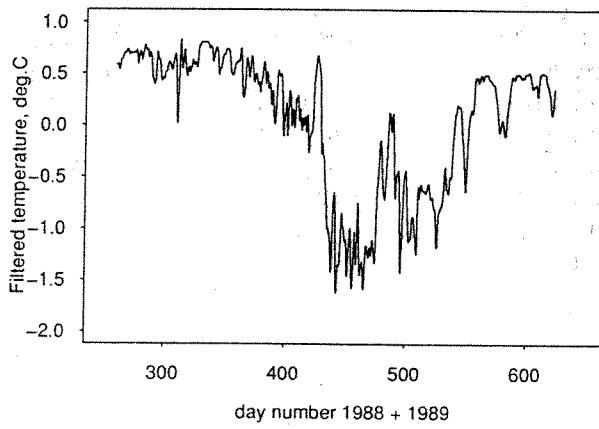
GSP-IS1-307m



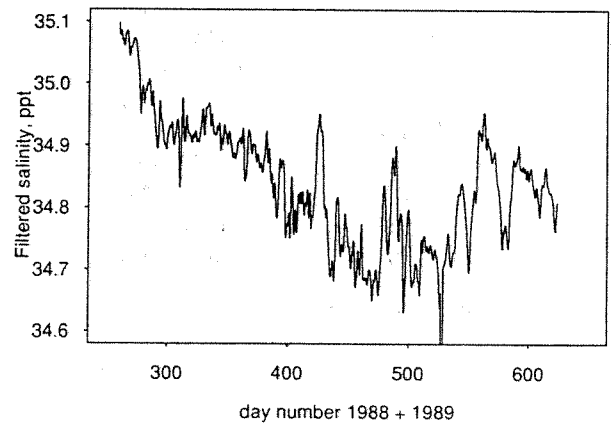
GSP-IS1-307m



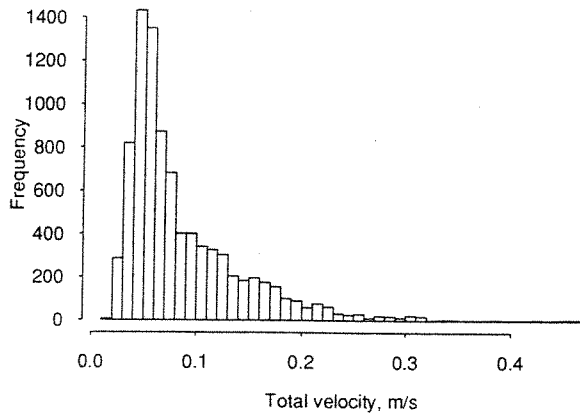
GSP-IS1-307m



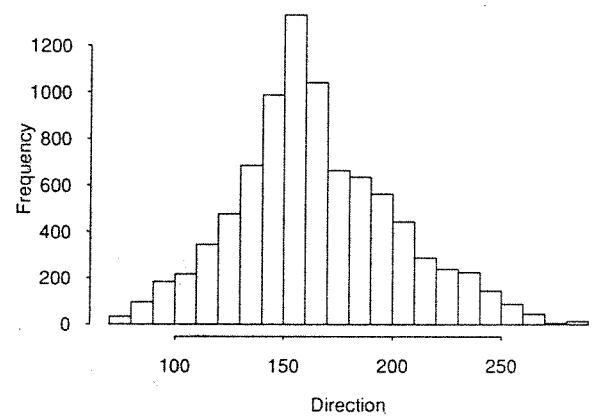
GSP-IS1-307m



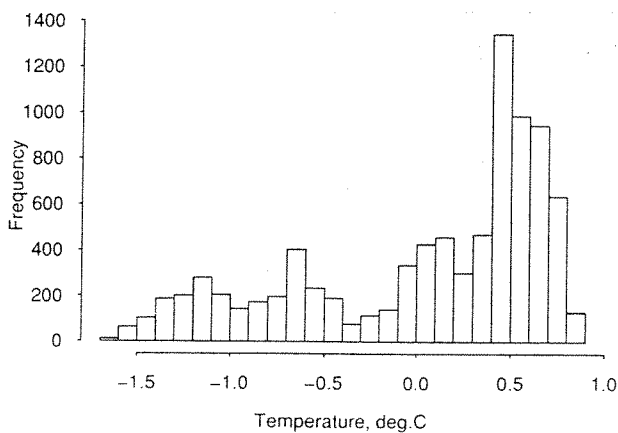
GSP-IS1-307m



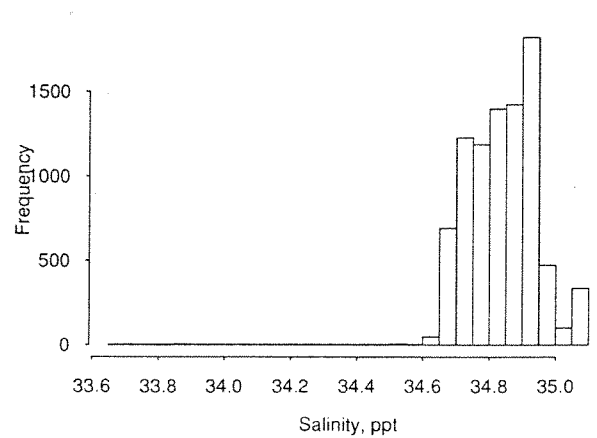
GSP-IS1-307m



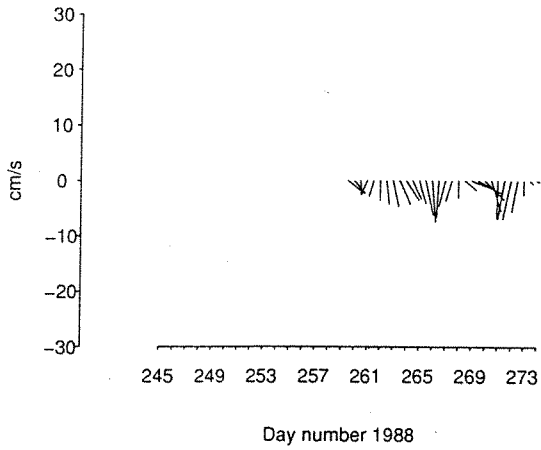
GSP-IS1-307m



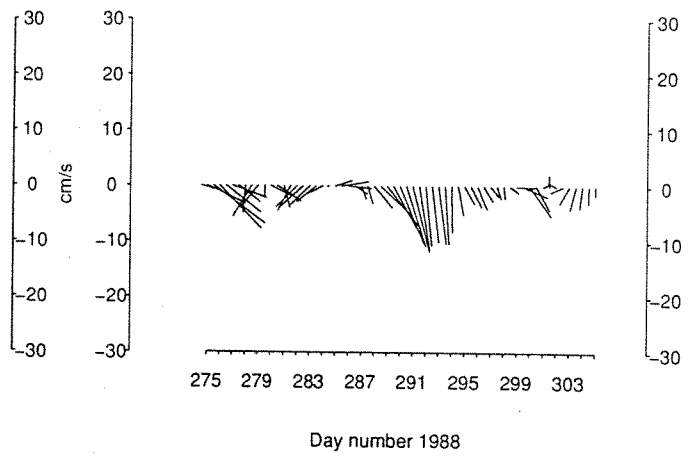
GSP-IS1-307m



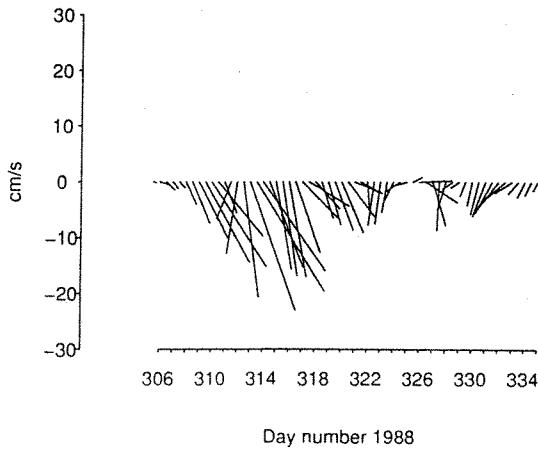
GSP-IS1-307m, SEPTEMBER 1988



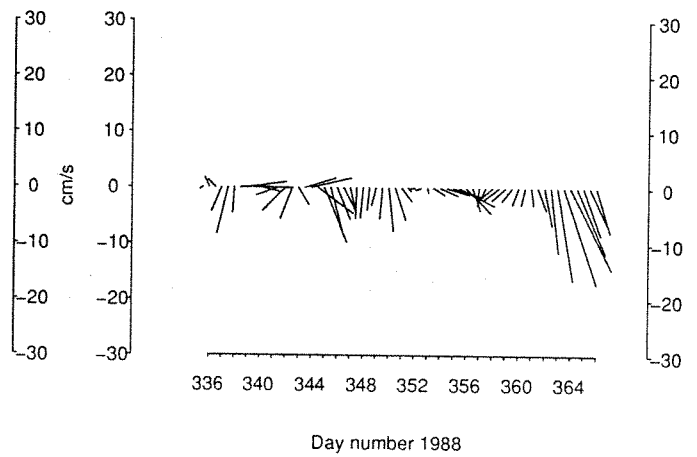
GSP-IS1-307m, OCTOBER 1988



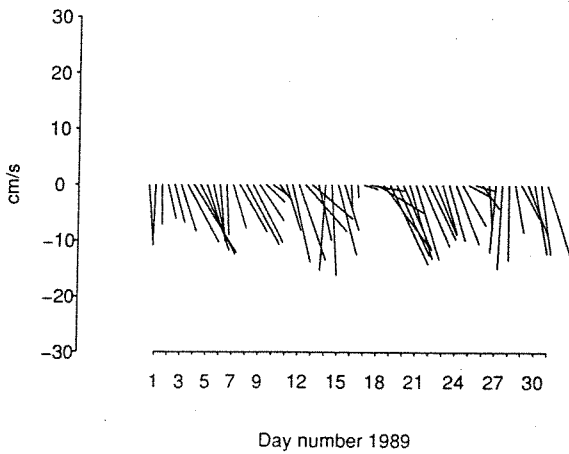
GSP-IS1-307m, NOVEMBER 1988



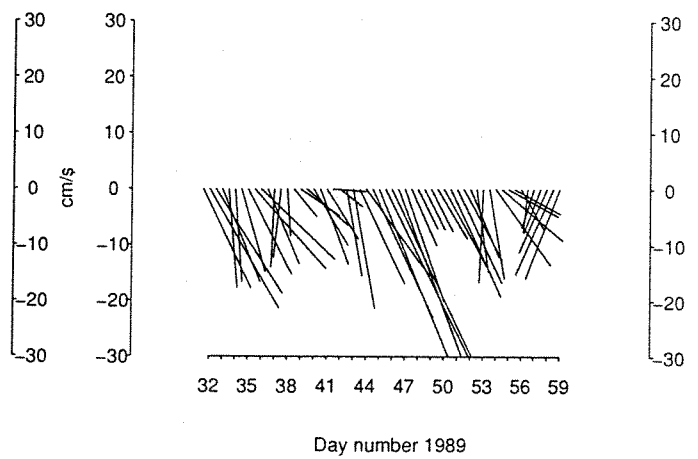
GSP-IS1-307m, DECEMBER 1988



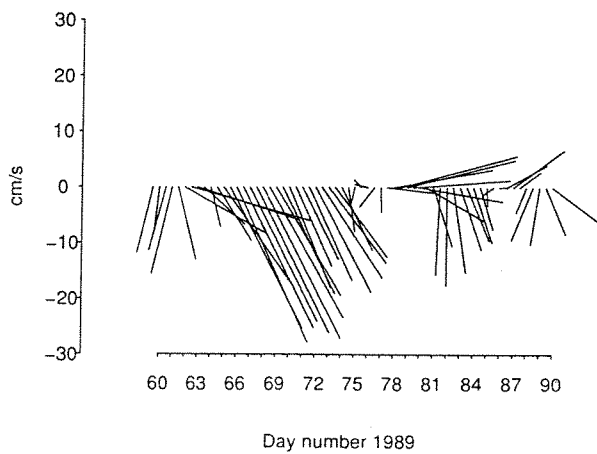
GSP-IS1-307m, JANUARY 1989



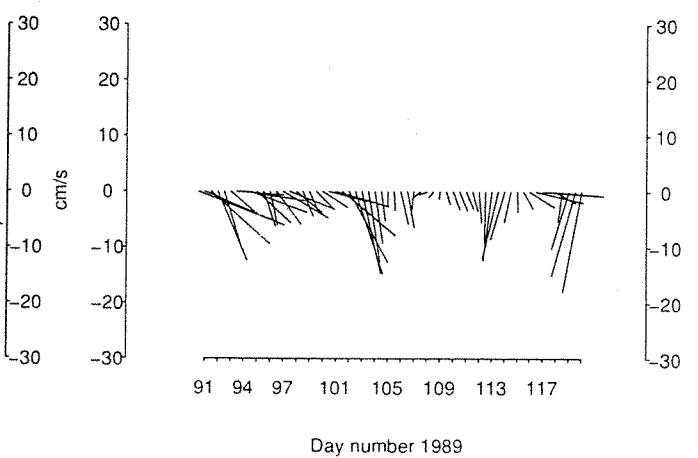
GSP-IS1-307m, FEBRUARY 1989



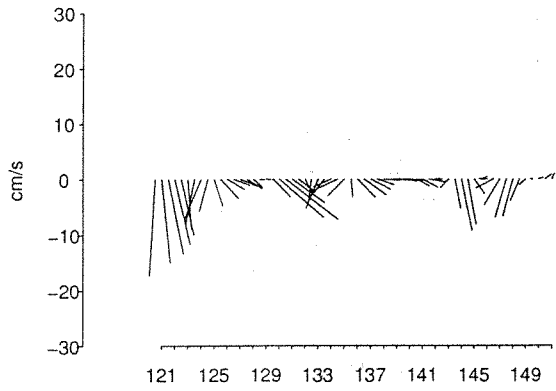
GSP-IS1-307m, MARCH 1989



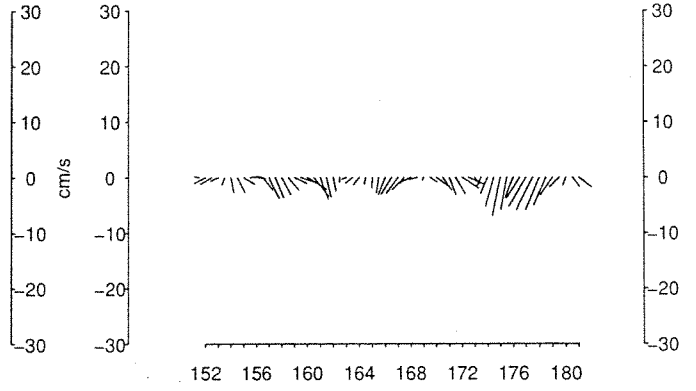
GSP-IS1-307m, APRIL 1989



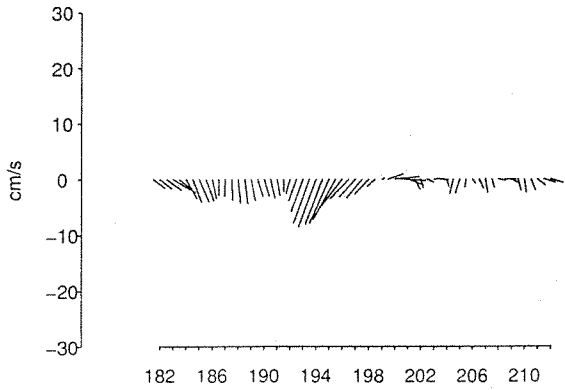
GSP-IS1-307m, MAY 1989



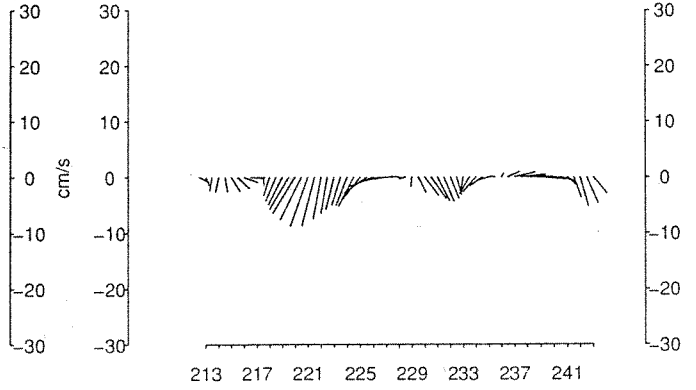
GSP-IS1-307m, JUNE 1989



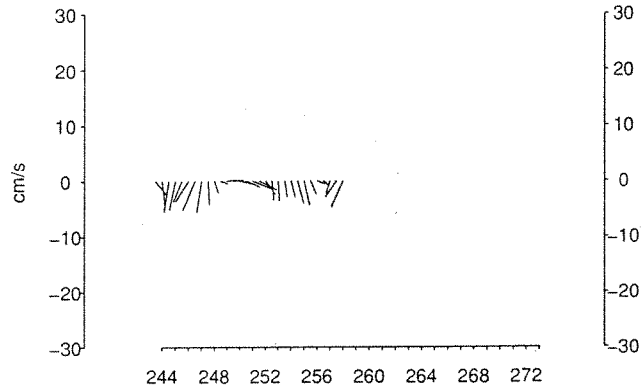
GSP-IS1-307m, JULY 1989



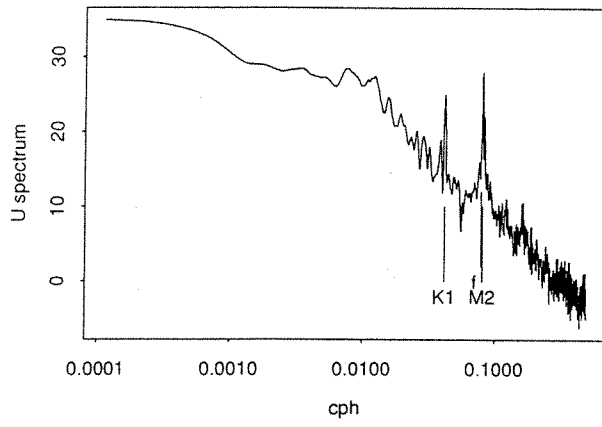
GSP-IS1-307m, AUGUST 1989



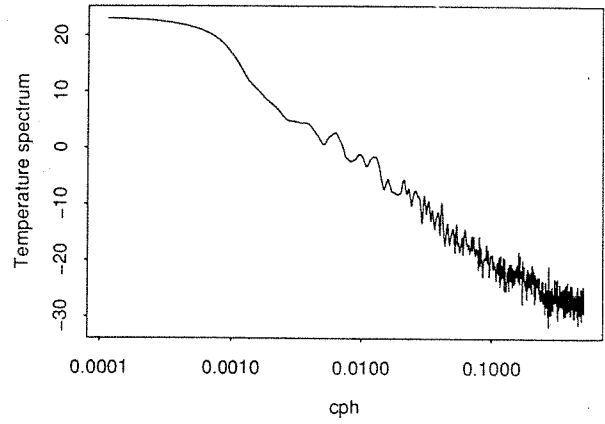
GSP-IS1-307m, SEPTEMBER 1989



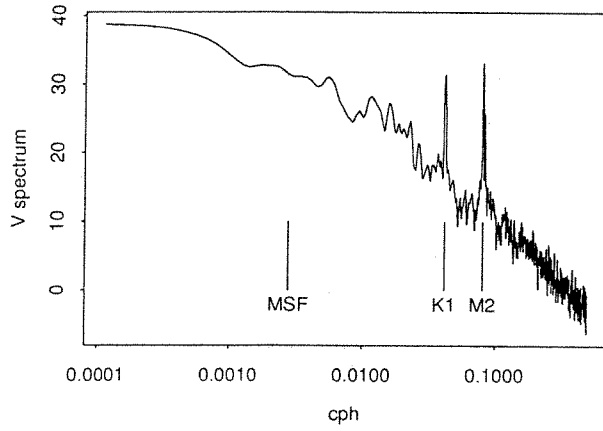
GSP-IS1-307m



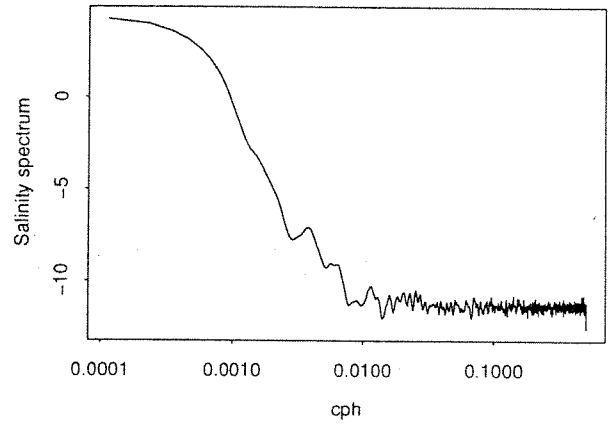
GSP-IS1-307m



GSP-IS1-307m



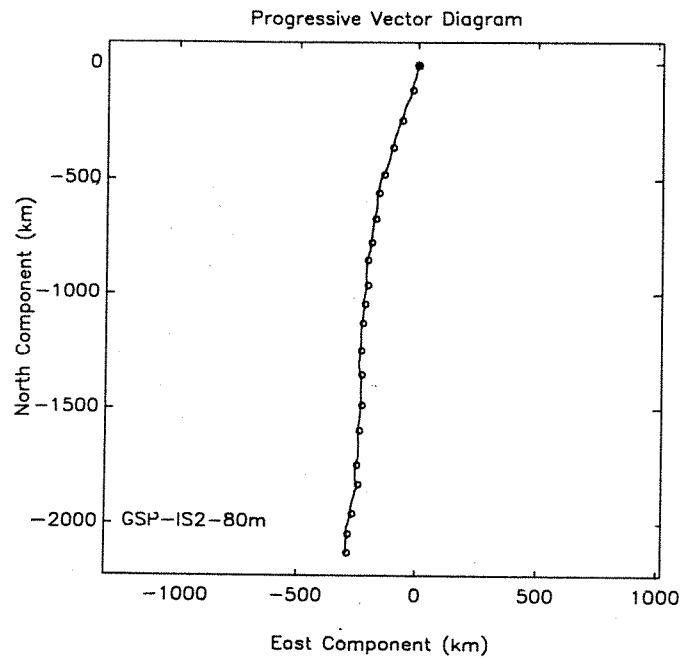
GSP-IS1-307m

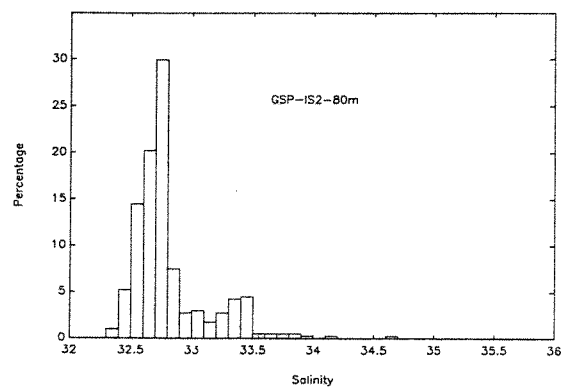
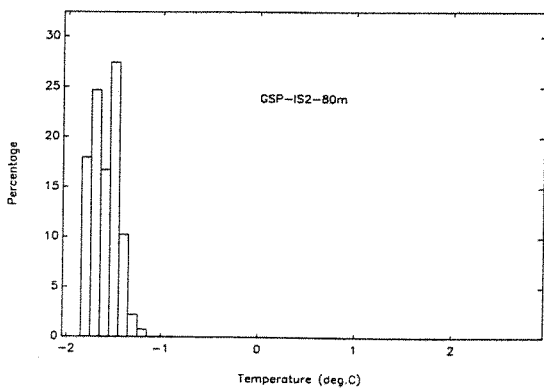
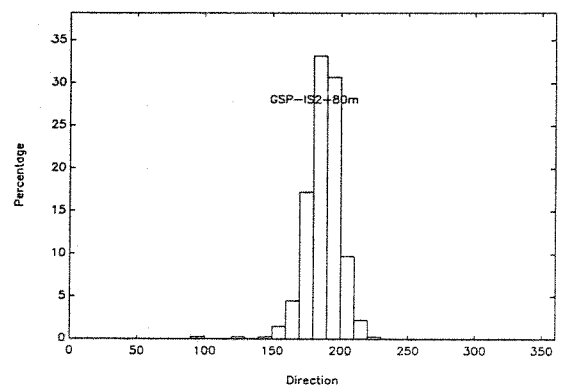
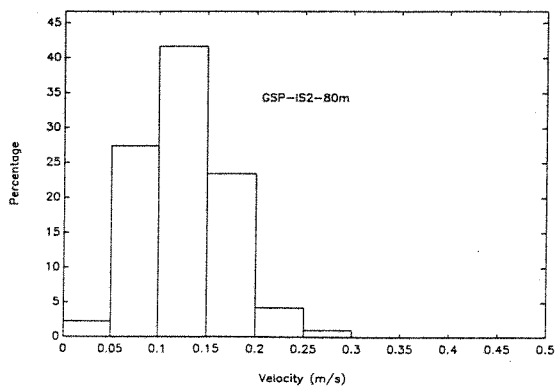
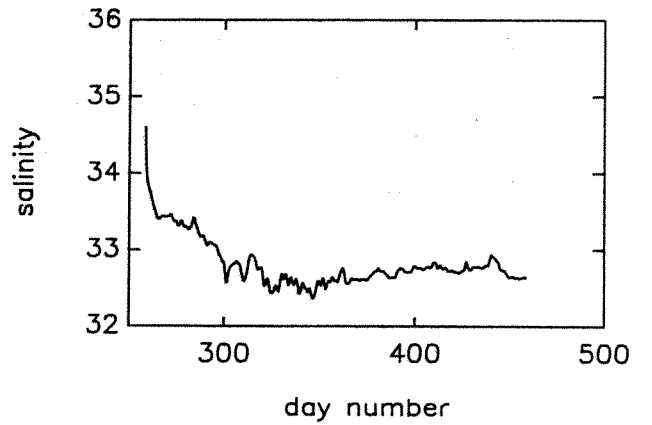
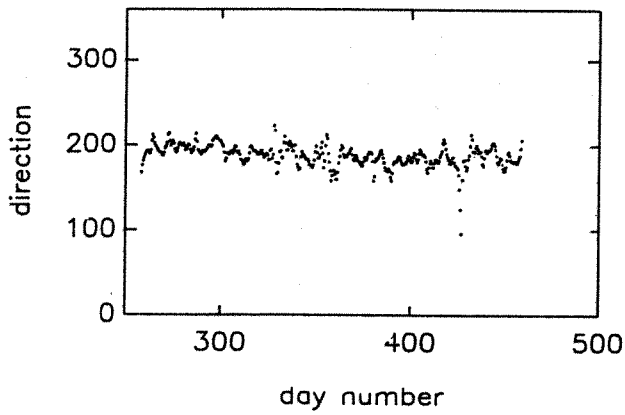
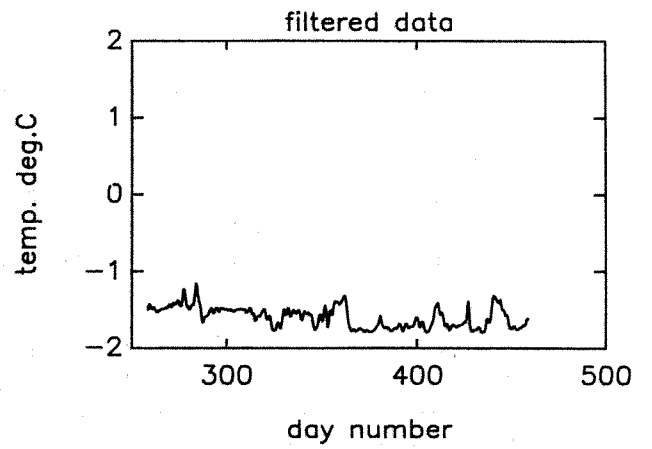
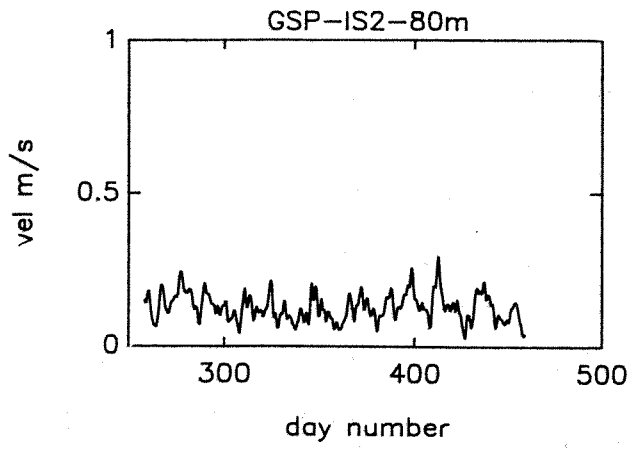


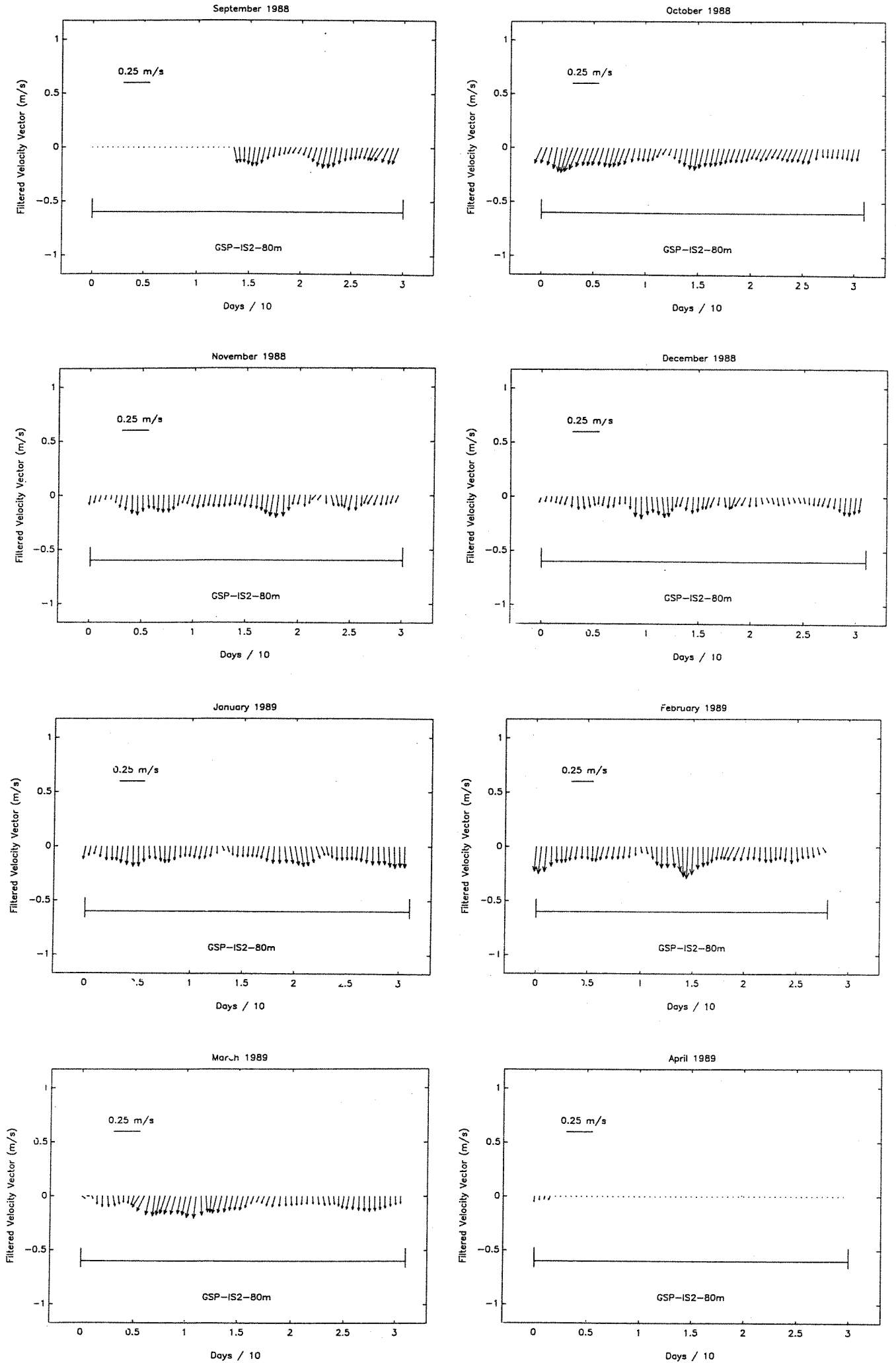
NBA080
IS2 - 80m

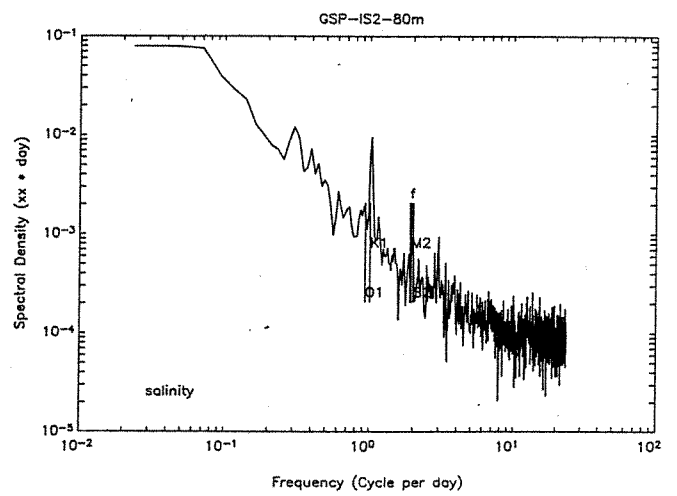
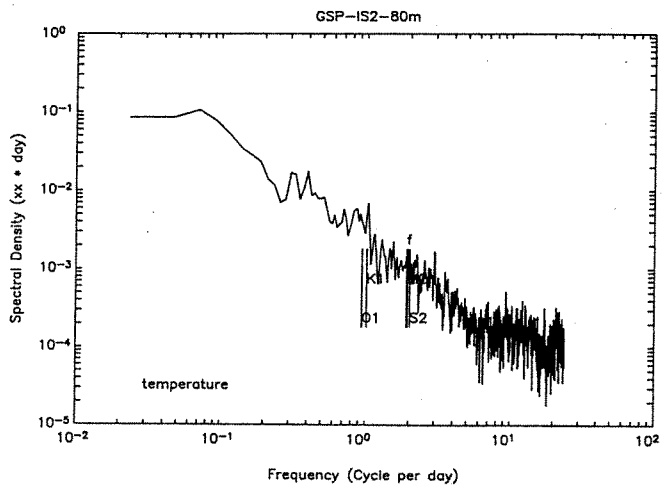
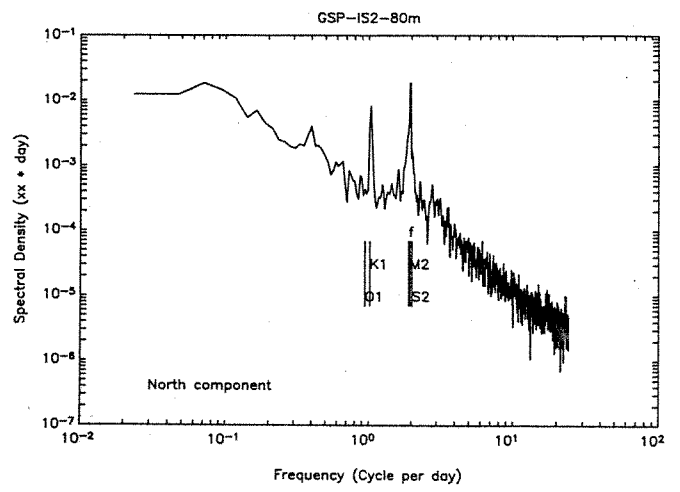
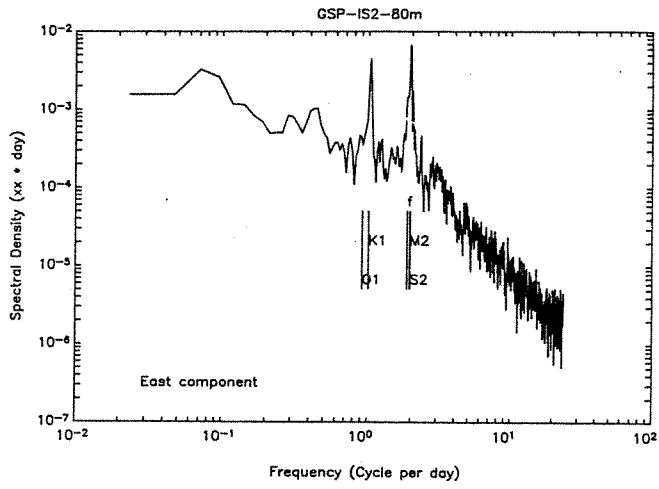
GSP-IS2-80m, 71°N section, 14/9/88-2/4/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	-0.017 (0.023)	-0.123 (0.046)	-1.60 (0.14)	32.81 (0.31)
Sep 88	-0.033 (0.022)	-0.126 (0.040)	-1.47 (0.04)	33.53 (0.27)
Oct 88	-0.042 (0.018)	-0.136 (0.041)	-1.48 (0.10)	33.08 (0.23)
Nov 88	-0.017 (0.014)	-0.112 (0.040)	-1.59 (0.09)	32.66 (0.15)
Dec 88	-0.007 (0.018)	-0.104 (0.041)	-1.57 (0.13)	32.55 (0.09)
Jan 89	-0.001 (0.017)	-0.132 (0.037)	-1.75 (0.04)	32.67 (0.05)
Feb 89	-0.008 (0.019)	-0.144 (0.077)	-1.67 (0.09)	32.75 (0.04)
Mar 89	-0.015 (0.023)	-0.114 (0.046)	-1.64 (0.15)	32.75 (0.09)
Apr 89	-0.007 (-)	-0.032 (-)	-1.66 (-)	32.63 (-)





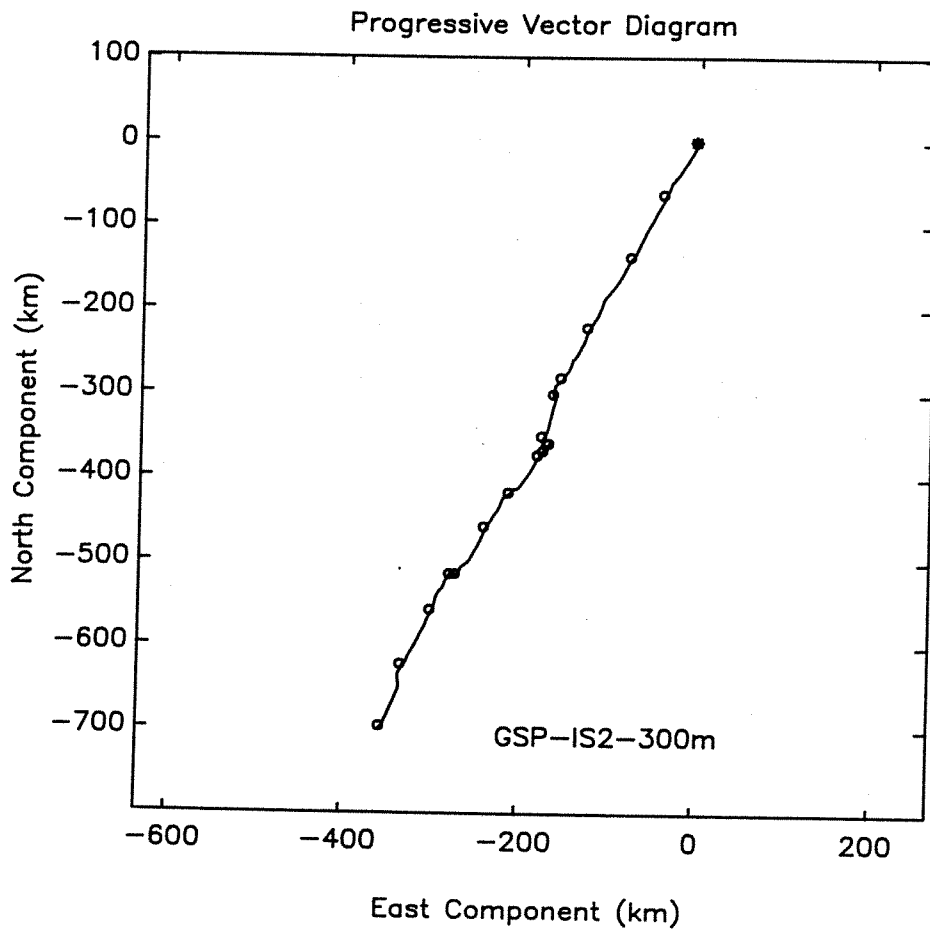


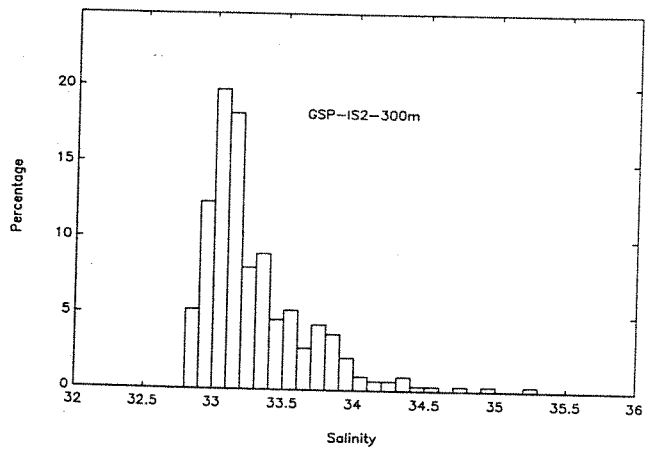
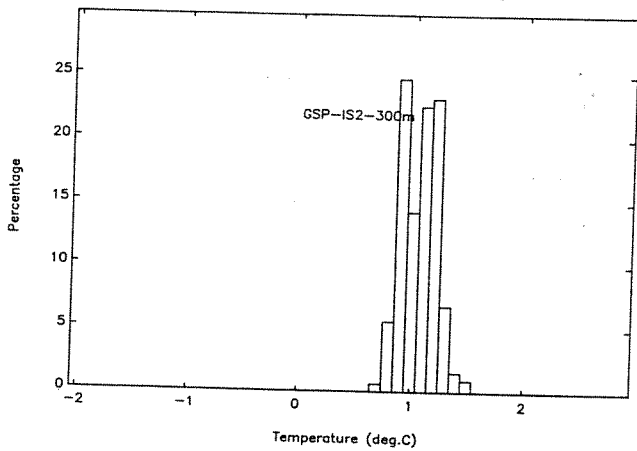
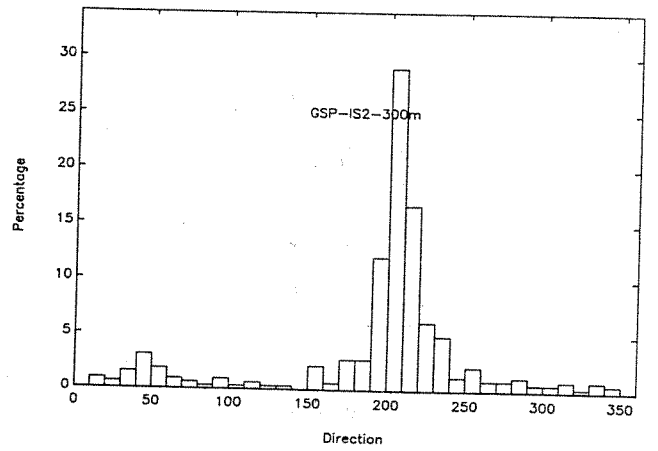
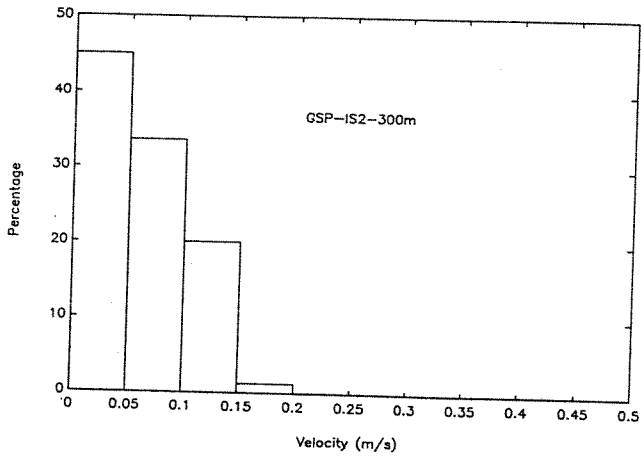
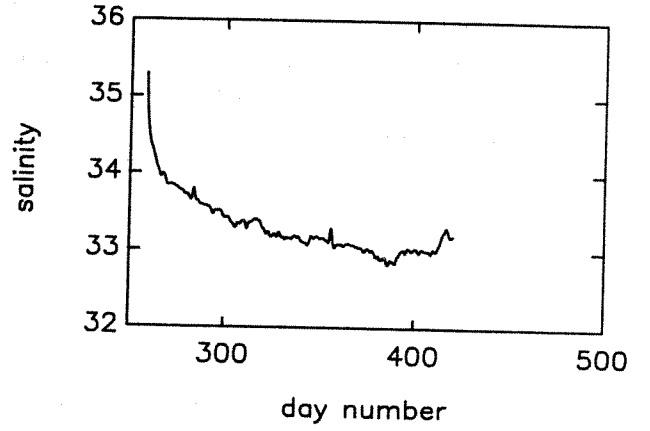
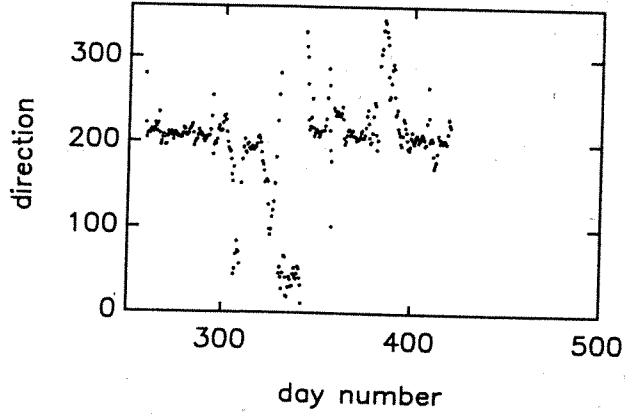
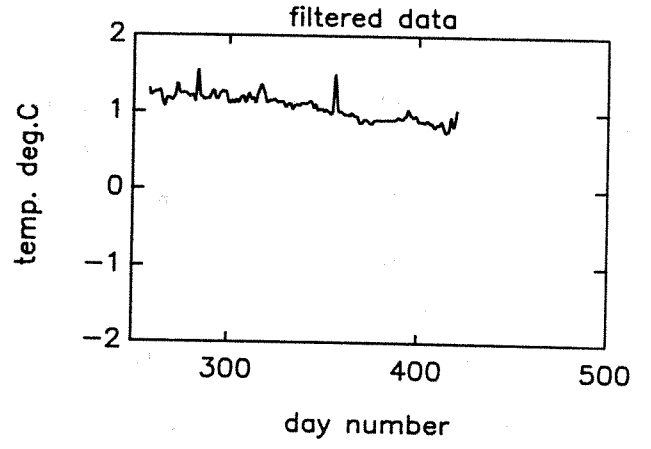
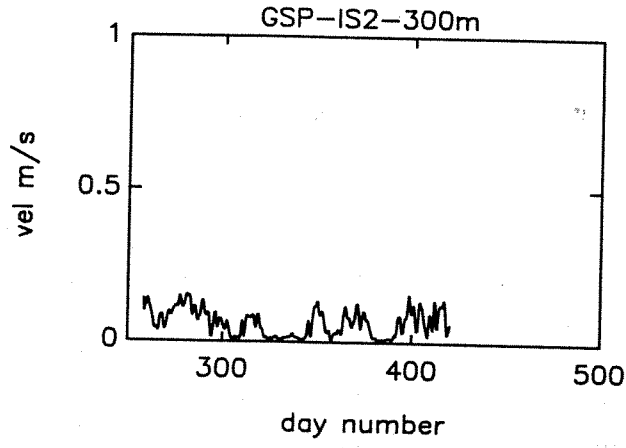


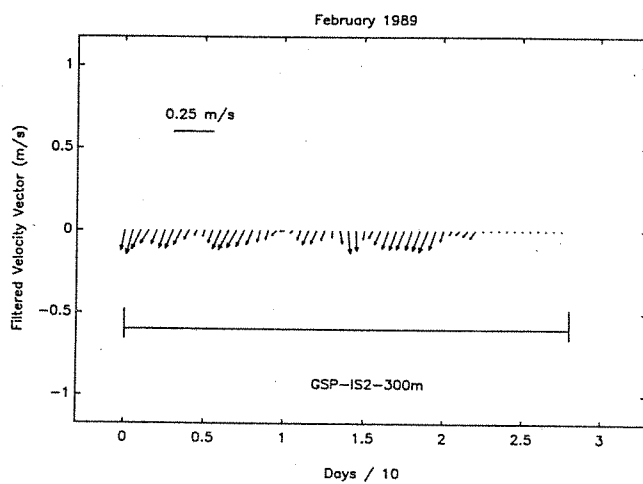
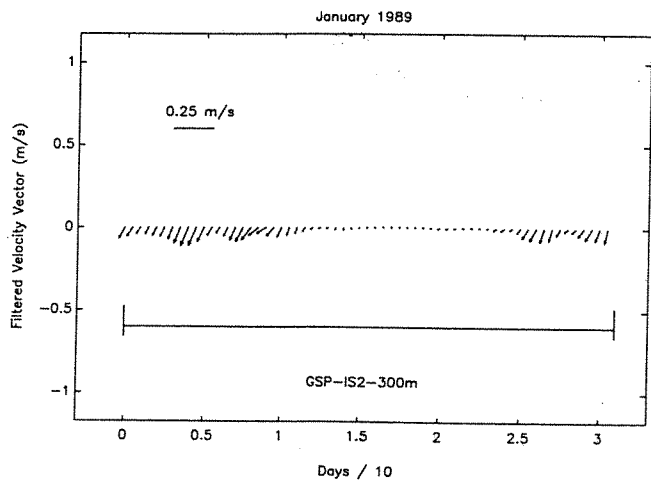
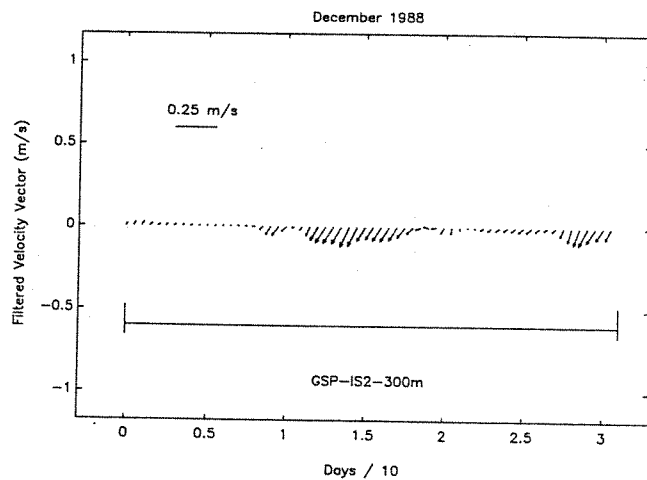
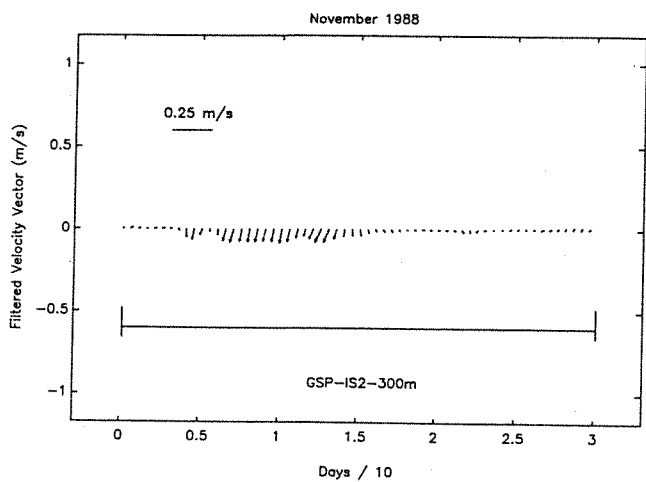
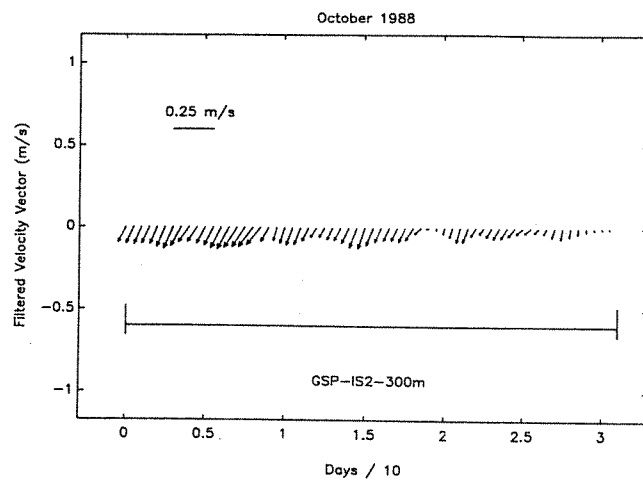
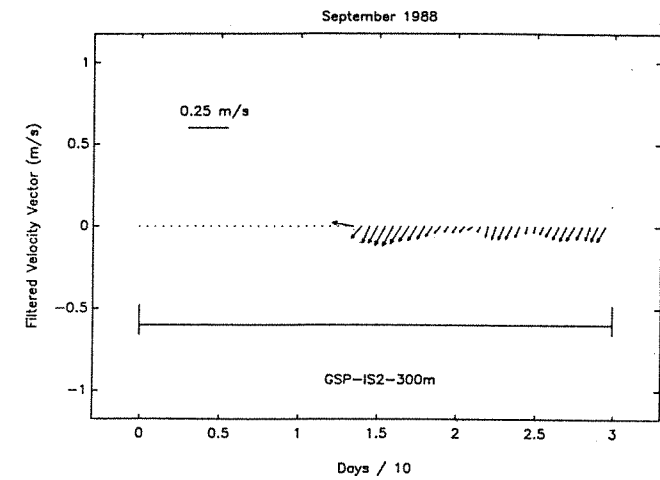
NBA075
IS2 - 300m

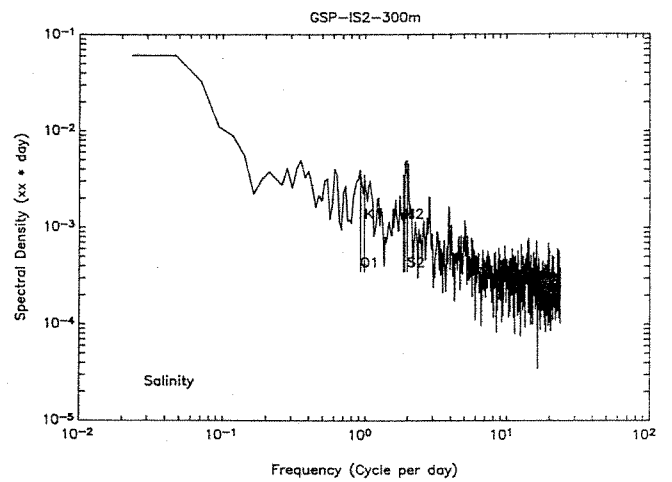
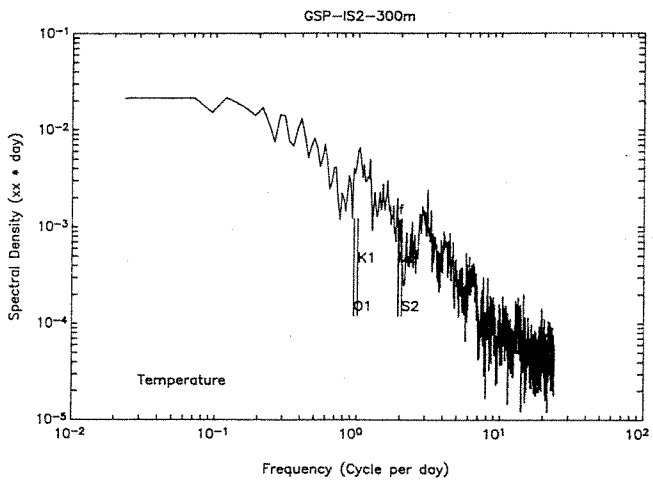
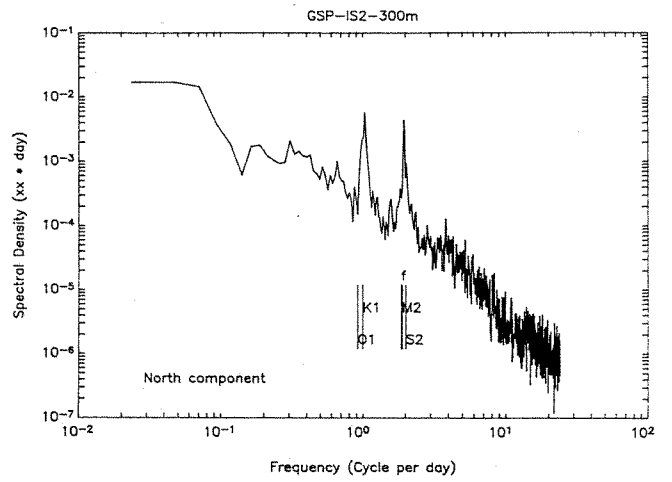
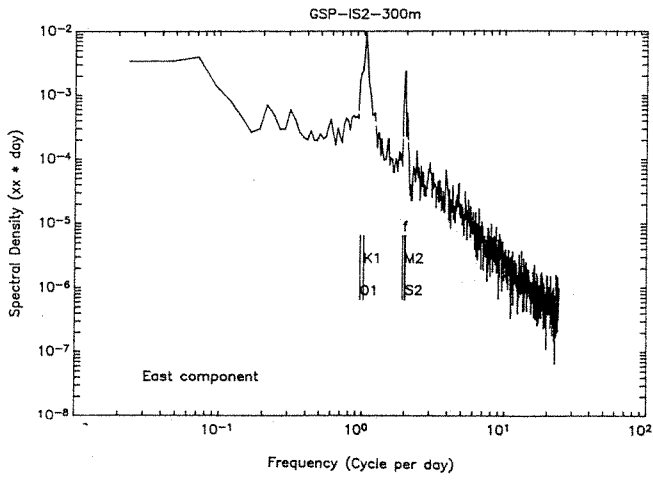
GSP-IS2-300m, 71°N section, 14/9/88-23/2/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	-0.025 (0.024)	-0.050 (0.043)	+1.06 (0.15)	33.29 (0.37)
Sep 88	-0.040 (0.024)	-0.073 (0.031)	+1.21 (0.07)	34.09 (0.36)
Oct 88	-0.039 (0.022)	-0.076 (0.036)	+1.20 (0.08)	33.56 (0.14)
Nov 88	-0.002 (0.014)	-0.024 (0.033)	+1.15 (0.07)	33.26 (0.09)
Dec 88	-0.024 (0.024)	-0.033 (0.041)	+1.05 (0.10)	33.12 (0.05)
Jan 89	-0.023 (0.016)	-0.036 (0.035)	+0.91 (0.04)	32.96 (0.07)
Feb 89	-0.032 (0.018)	-0.080 (0.038)	+0.86 (0.06)	33.07 (0.11)





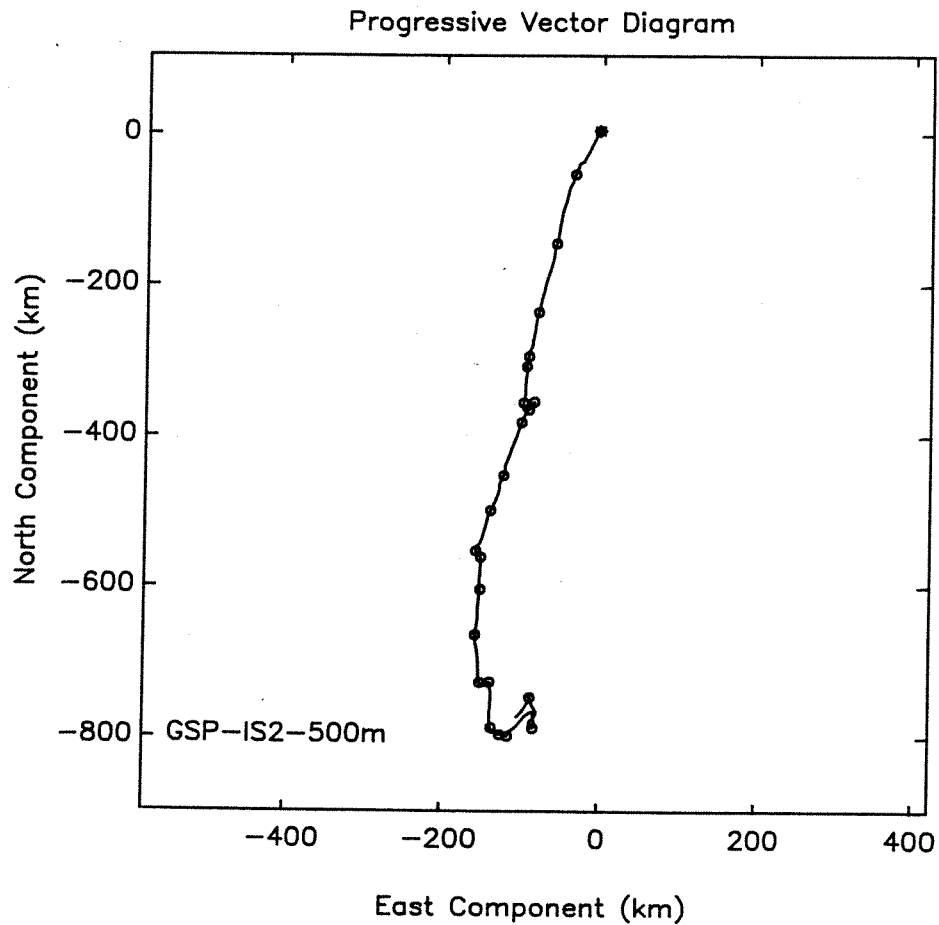


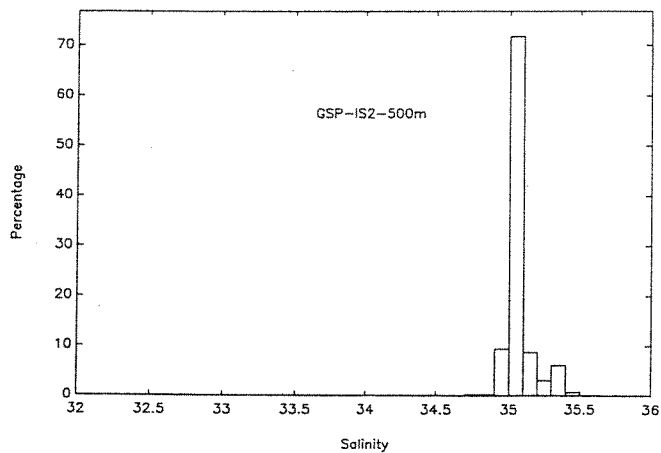
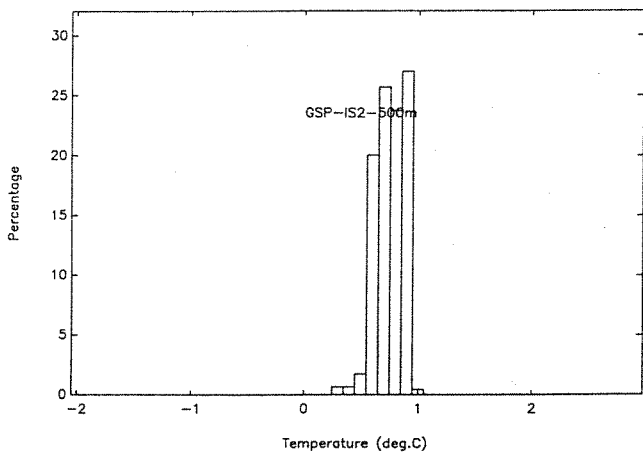
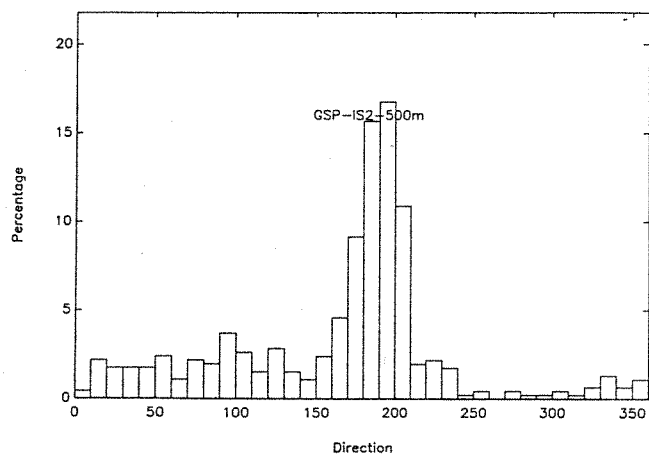
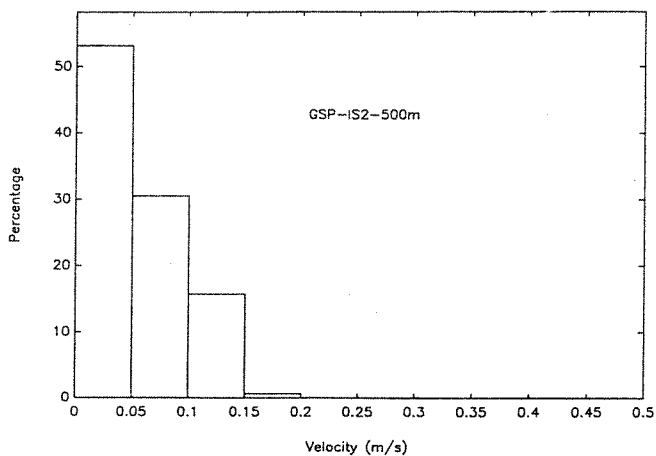
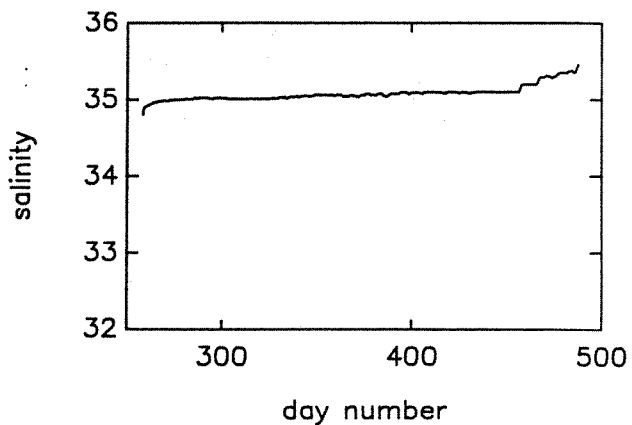
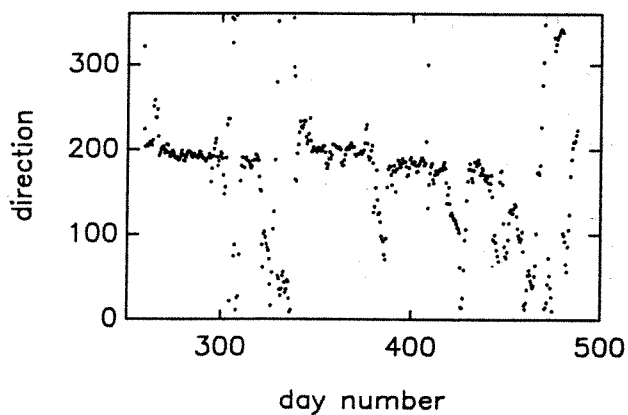
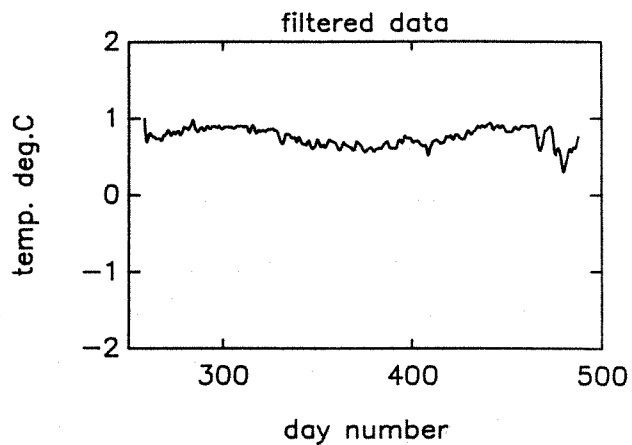
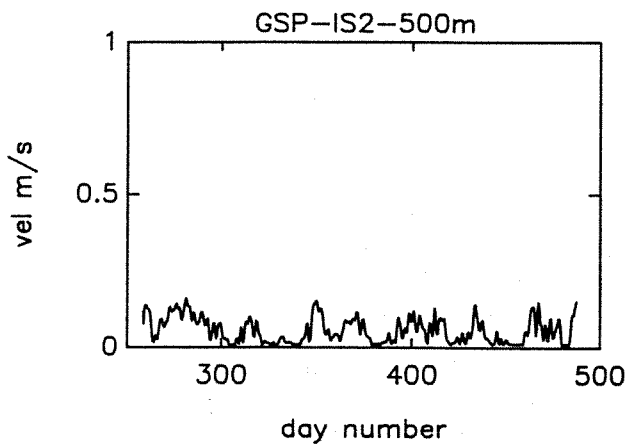


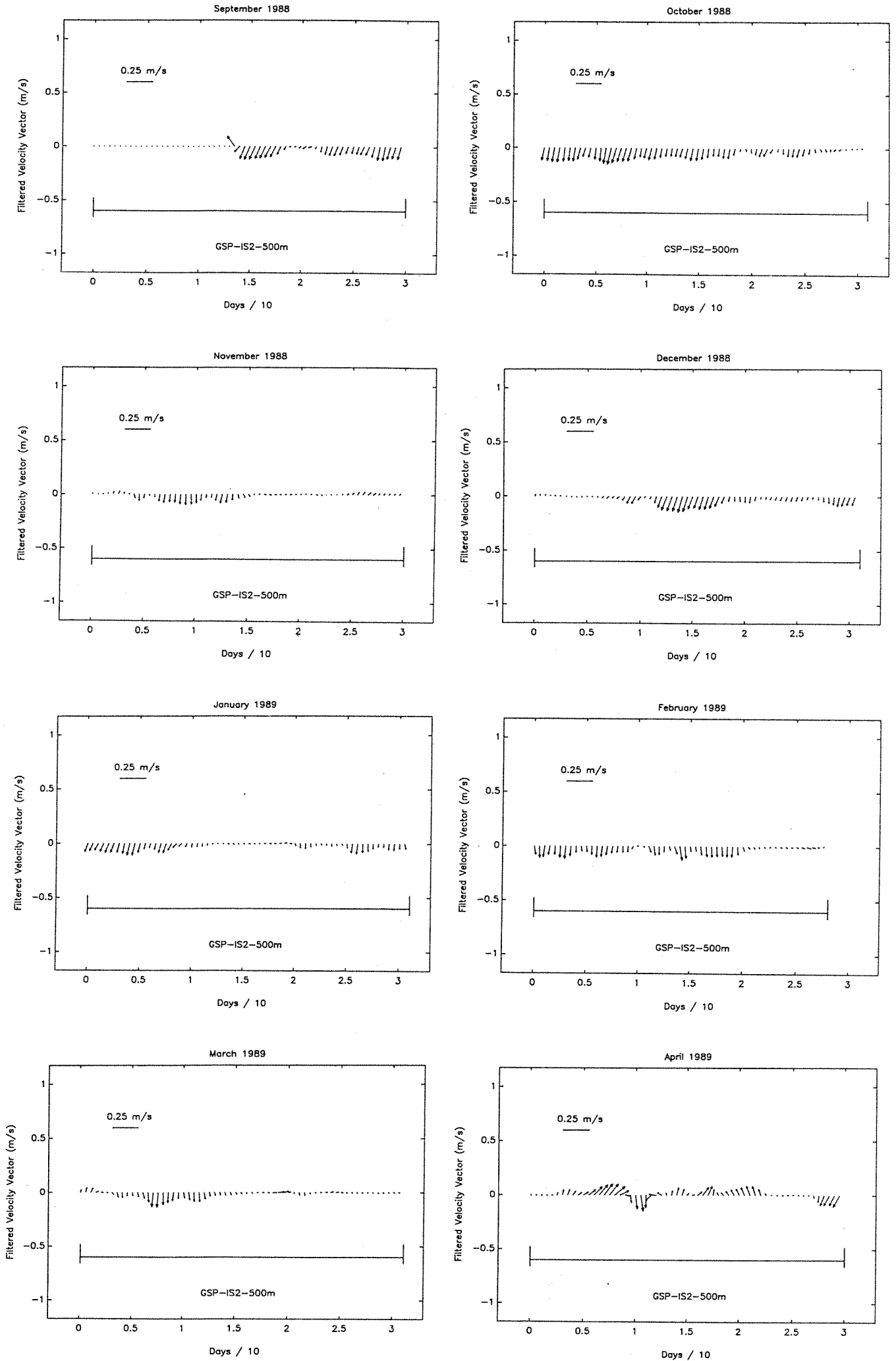
NBA105
IS2 - 500m

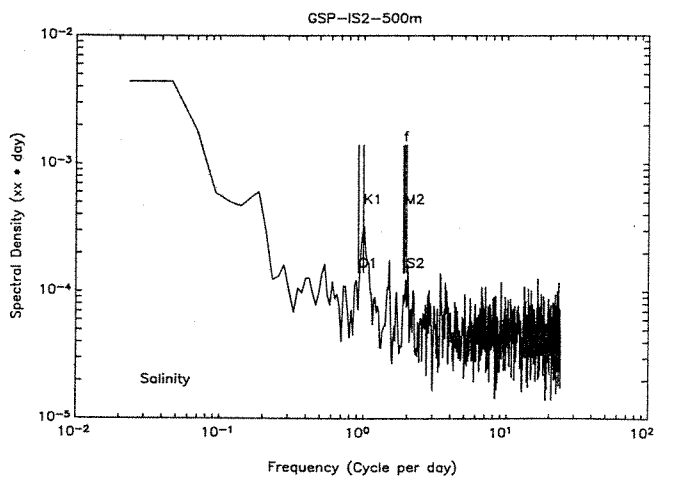
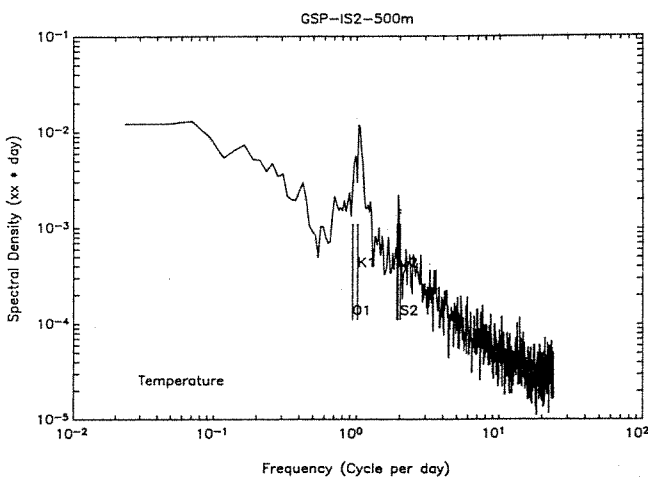
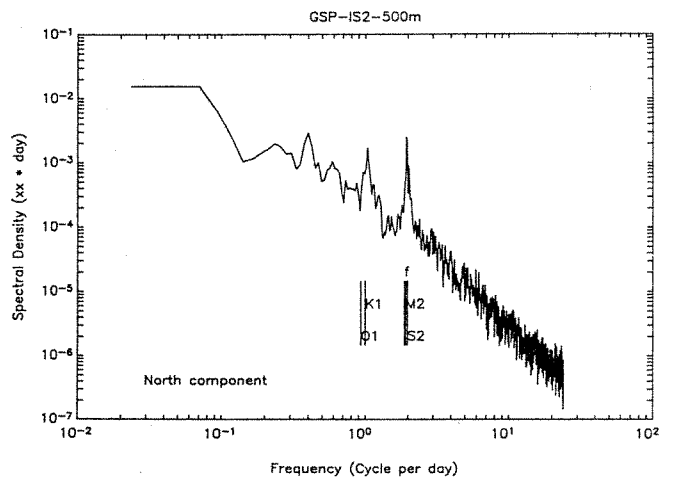
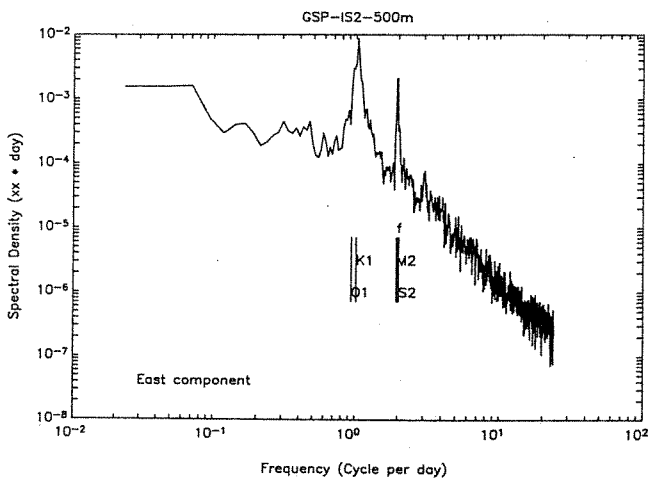
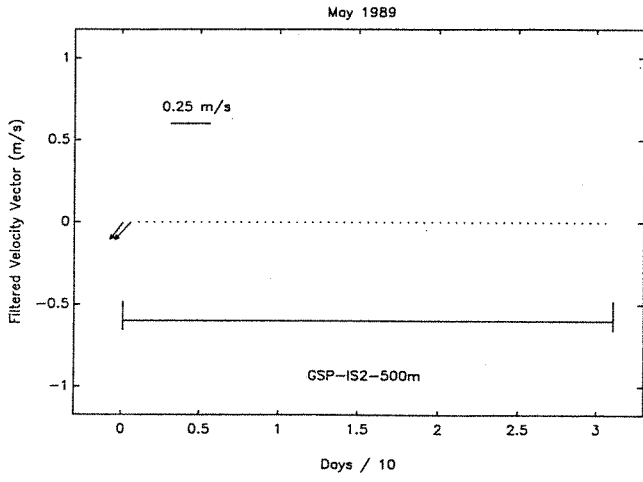
GSP-IS2-500m, 71°N section, 14/9/88-1/5/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	-0.005 (0.042)	-0.039 (0.051)	+0.75 (0.12)	35.08 (0.10)
Sep 88	-0.034 (0.016)	-0.078 (0.049)	+0.77 (0.06)	34.96 (0.04)
Oct 88	-0.016 (0.013)	-0.078 (0.043)	+0.87 (0.04)	35.01 (0.01)
Nov 88	+0.005 (0.010)	-0.018 (0.037)	+0.83 (0.06)	35.01 (0.01)
Dec 88	-0.018 (0.016)	-0.049 (0.044)	+0.66 (0.05)	35.05 (0.01)
Jan 89	-0.007 (0.016)	-0.041 (0.033)	+0.63 (0.05)	35.06 (0.02)
Feb 89	+0.004 (0.012)	-0.056 (0.039)	+0.69 (0.06)	35.09 (0.01)
Mar 89	+0.010 (0.011)	-0.025 (0.039)	+0.85 (0.05)	35.10 (0.01)
Apr 89	+0.008 (0.038)	+0.012 (0.071)	+0.07 (0.18)	35.29 (0.07)
May 89	-0.082 (-)	-0.089 (-)	+0.68 (-)	35.43 (-)





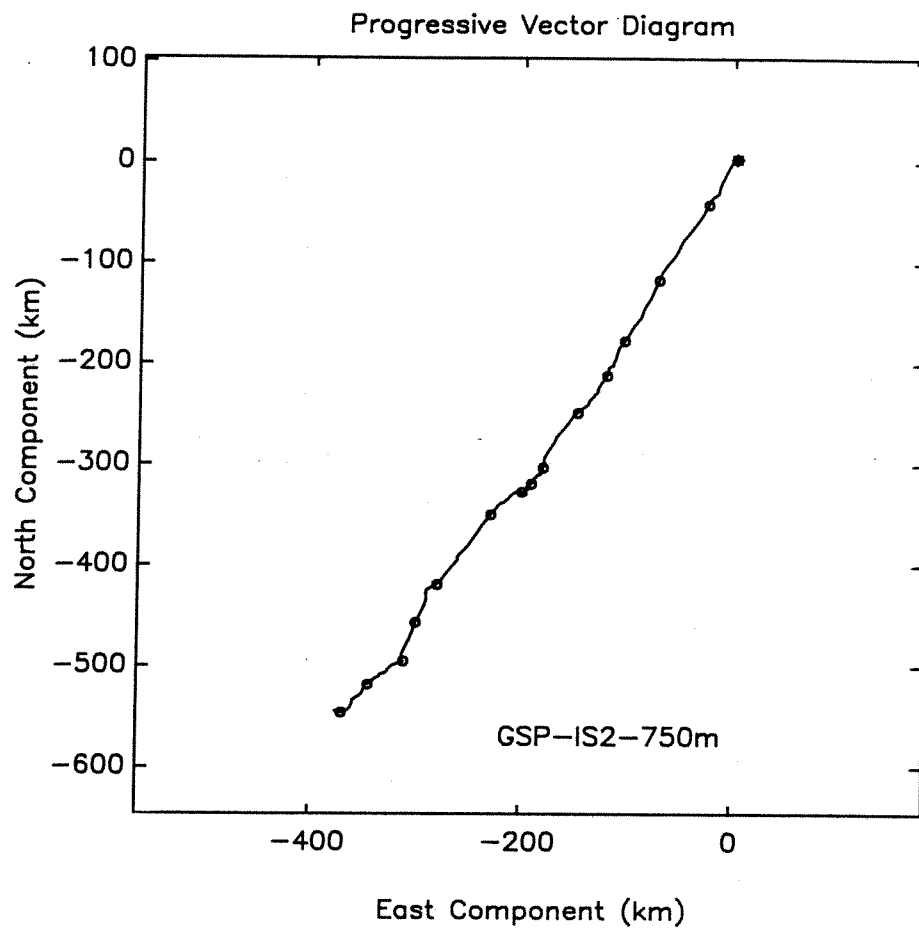


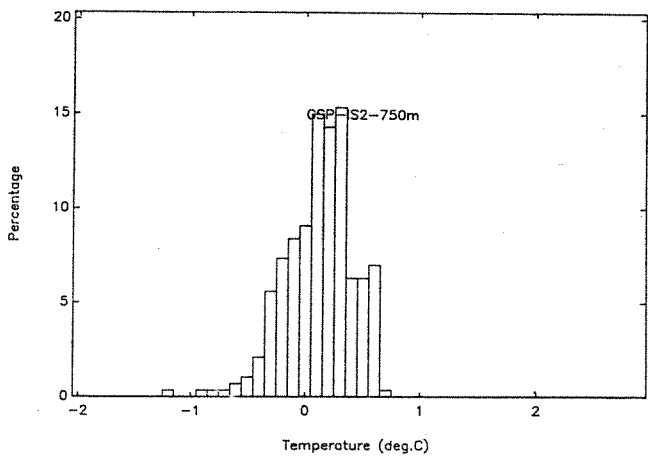
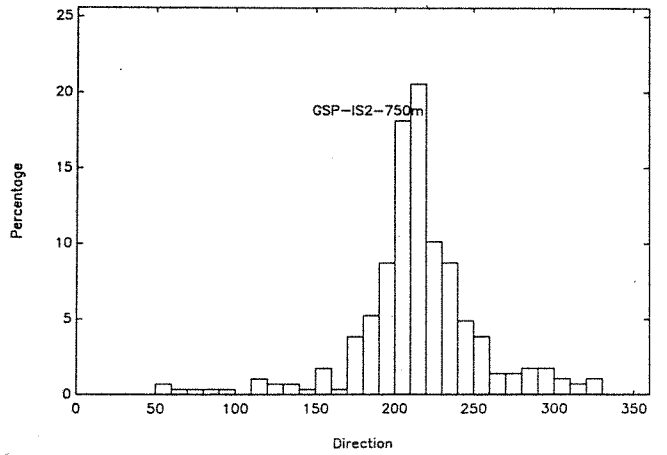
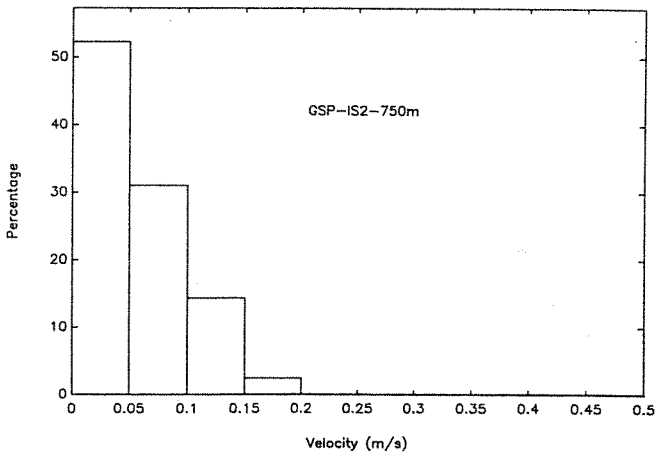
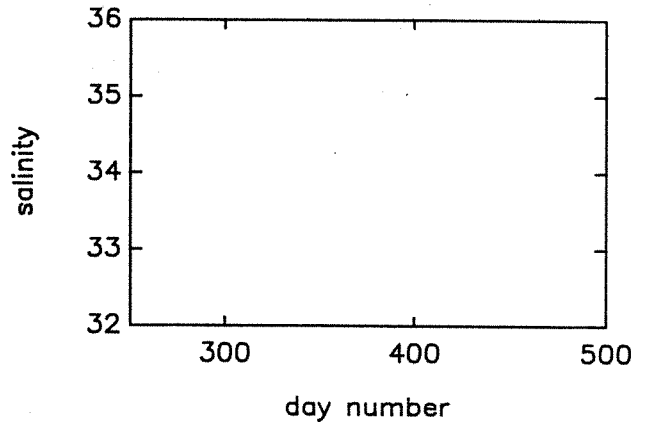
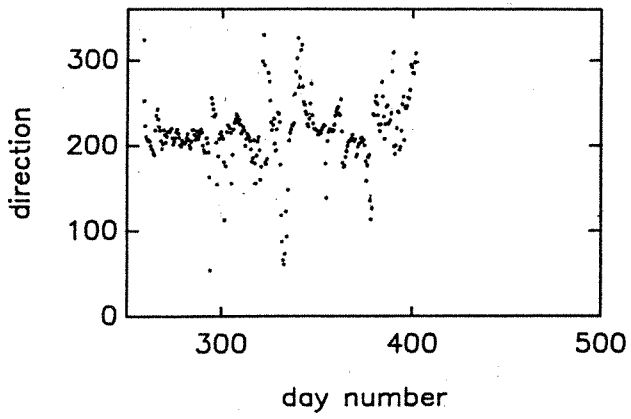
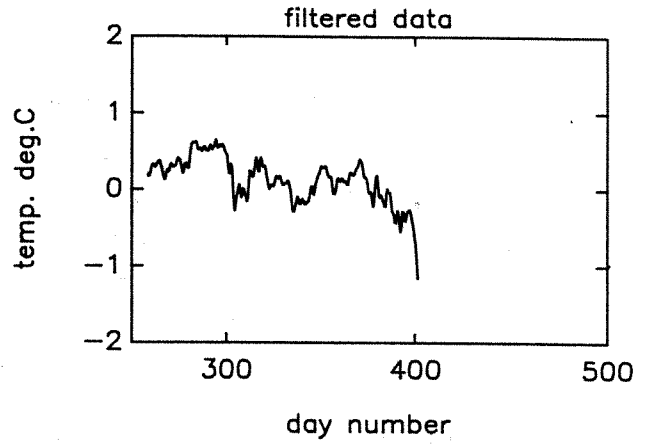
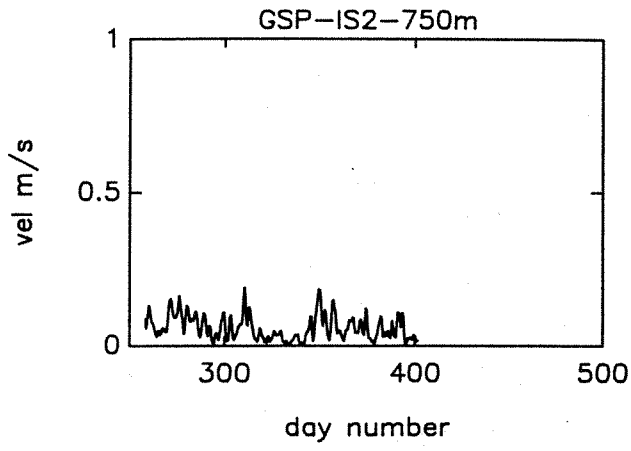


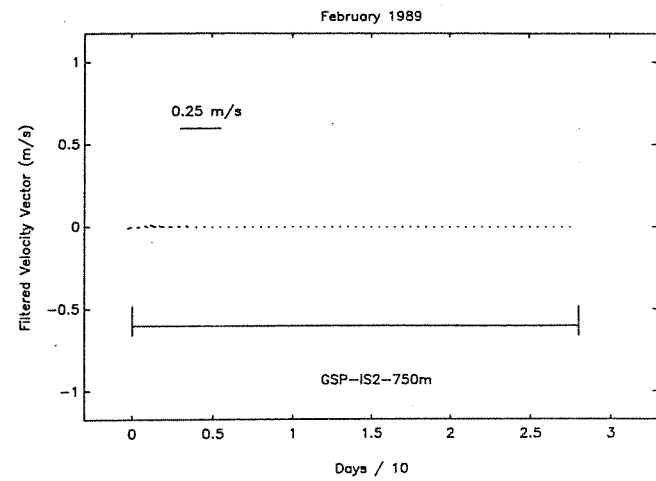
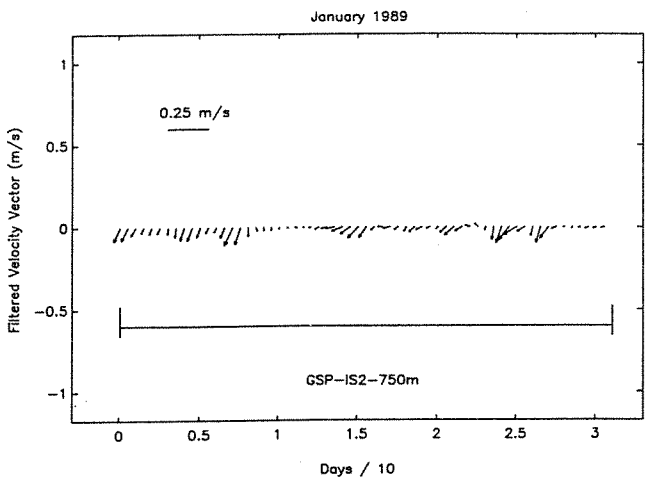
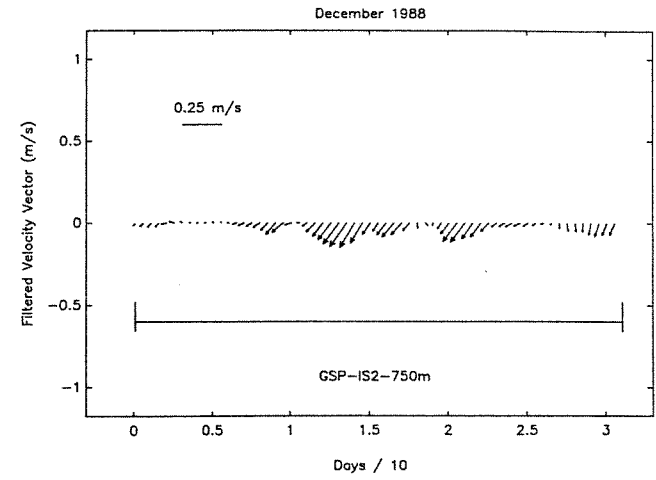
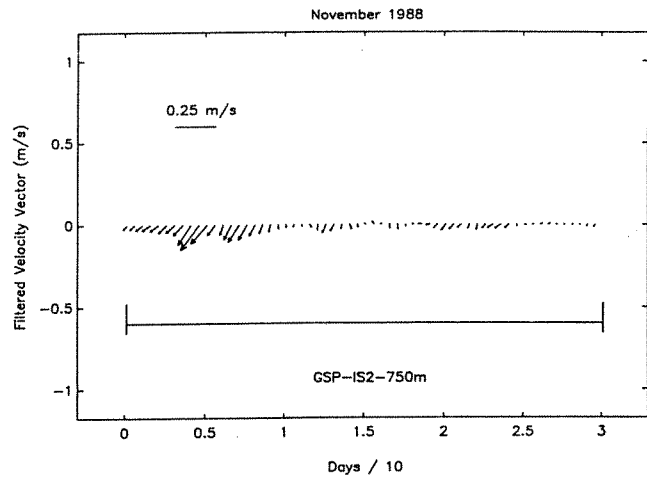
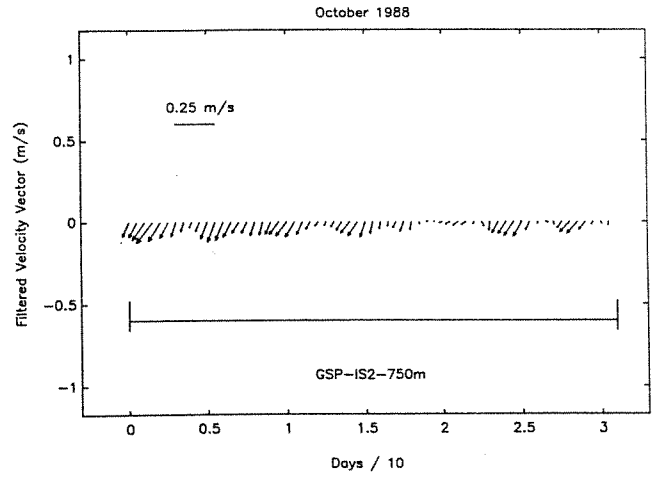
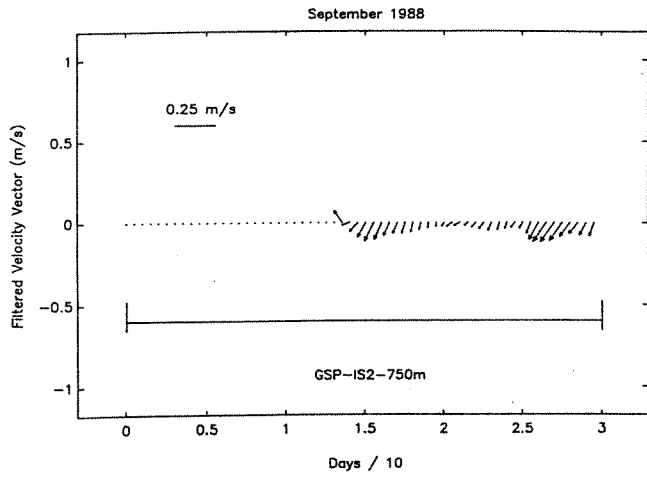
NBA090
IS2 - 750m

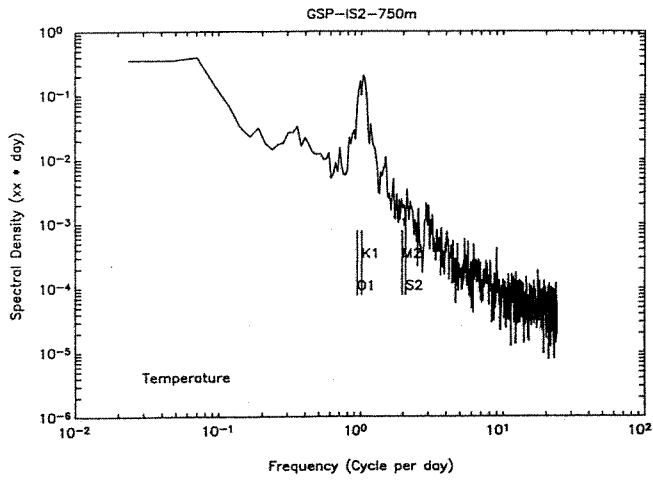
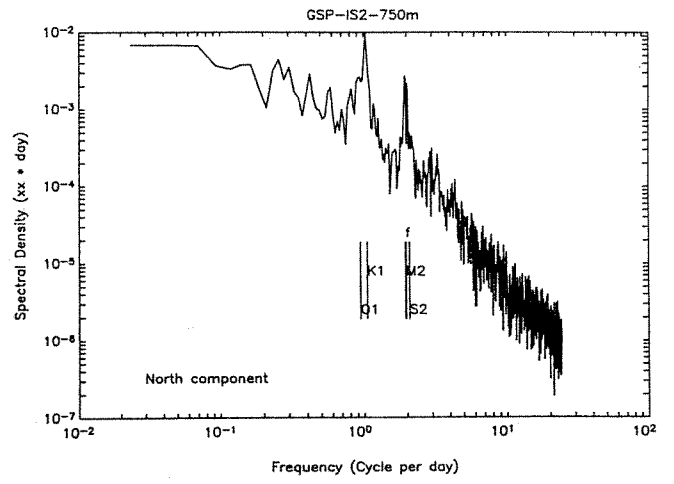
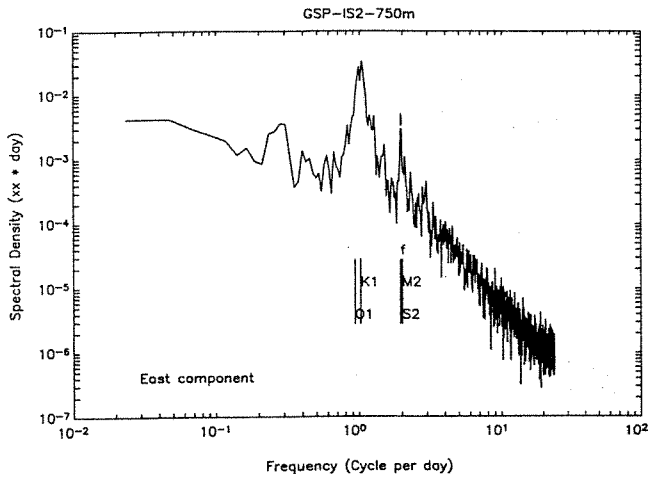
GSP-IS2-750m, 71°N section, 14/9/88-4/2/89. Means and deviations of filtered current, temperature.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)
Total:	-0.031 (0.026)	-0.044 (0.037)	+0.12 (0.29)
Sep 88	-0.041 (0.023)	-0.063 (0.040)	+0.28 (0.08)
Oct 88	-0.030 (0.025)	-0.058 (0.034)	+0.42 (0.21)
Nov 88	-0.022 (0.028)	-0.032 (0.034)	+0.10 (0.15)
Dec 88	-0.037 (0.030)	-0.046 (0.041)	+0.05 (0.16)
Jan 89	-0.028 (0.022)	-0.036 (0.031)	-0.08 (0.25)
Feb 89	-0.020 (0.008)	+0.003 (0.006)	-0.70 (0.28)





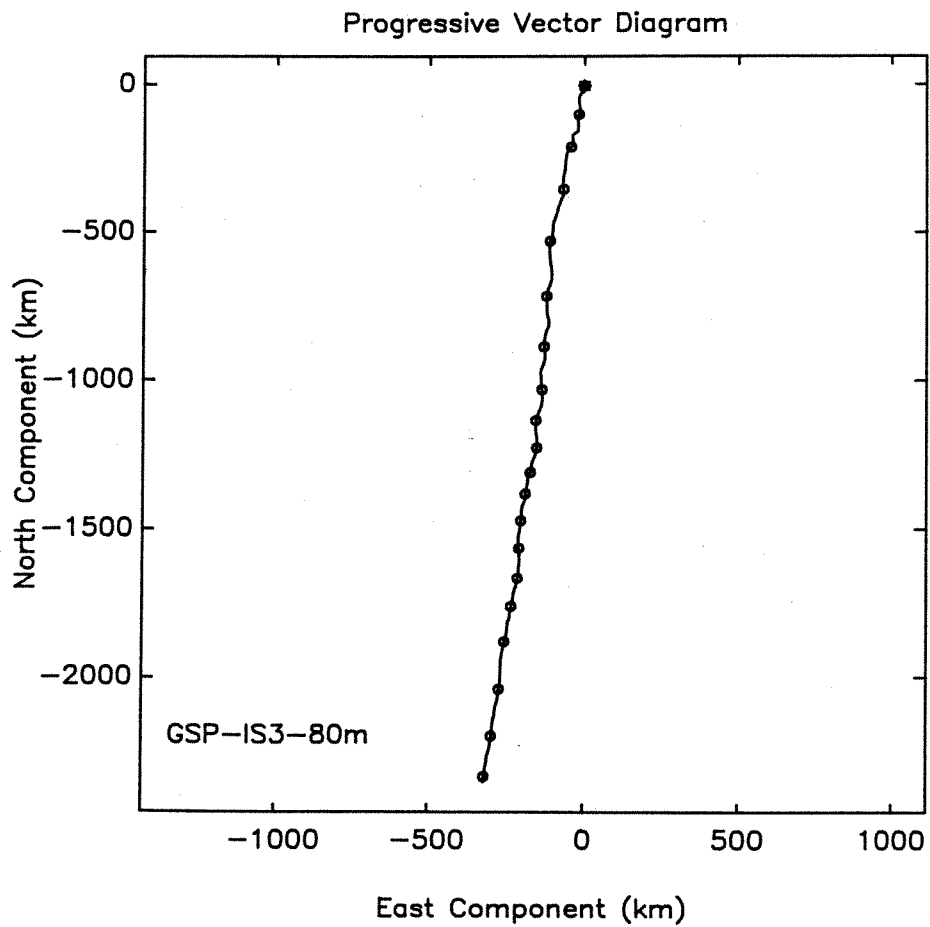


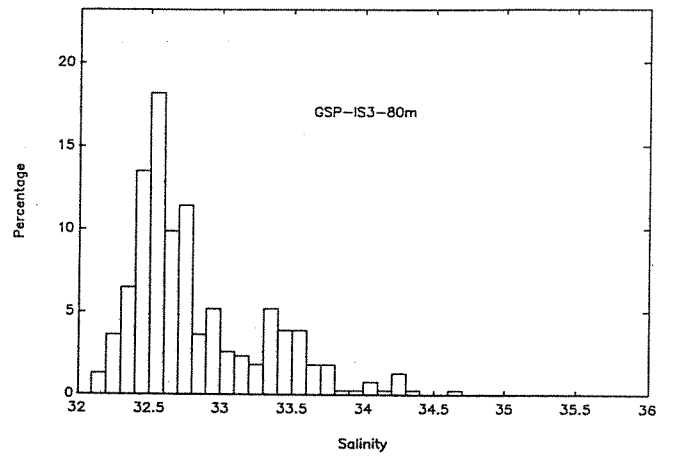
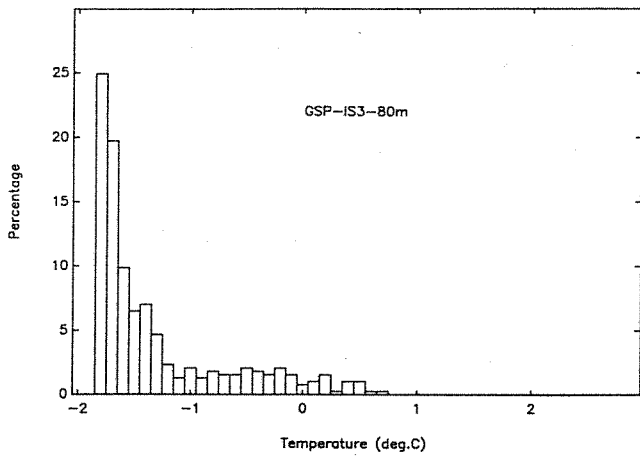
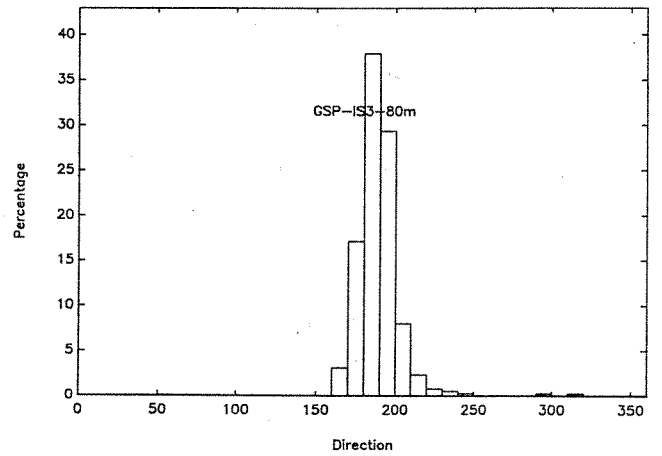
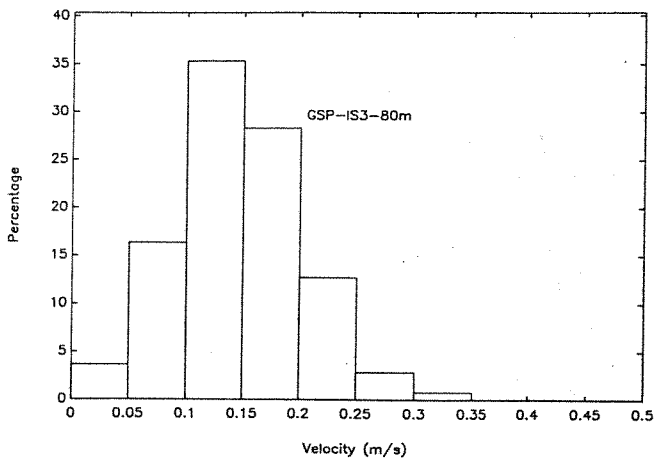
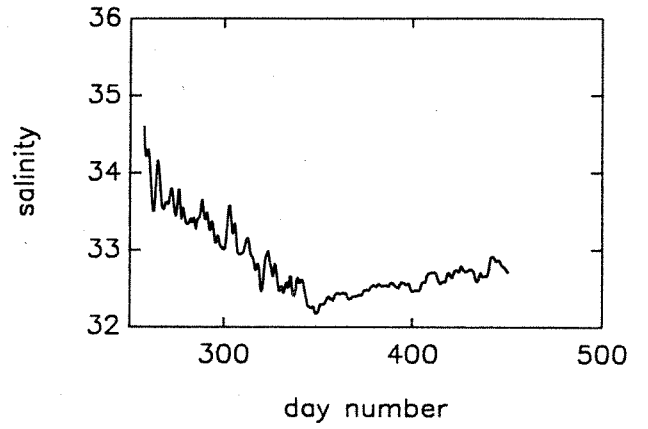
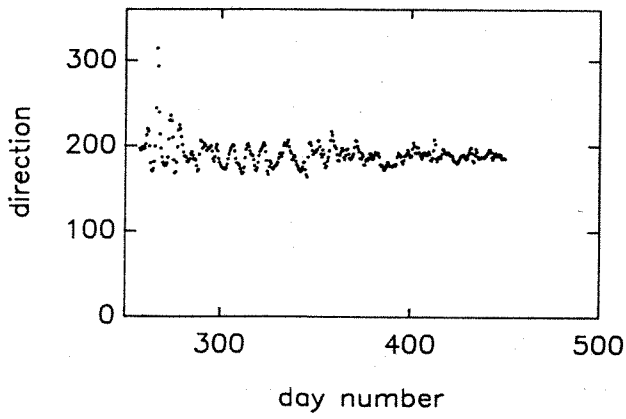
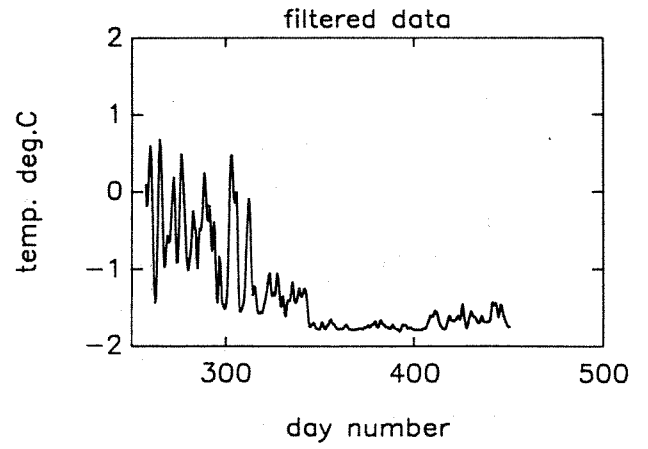
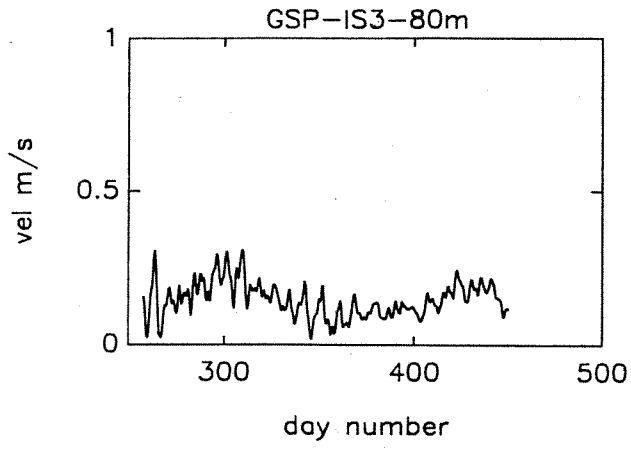


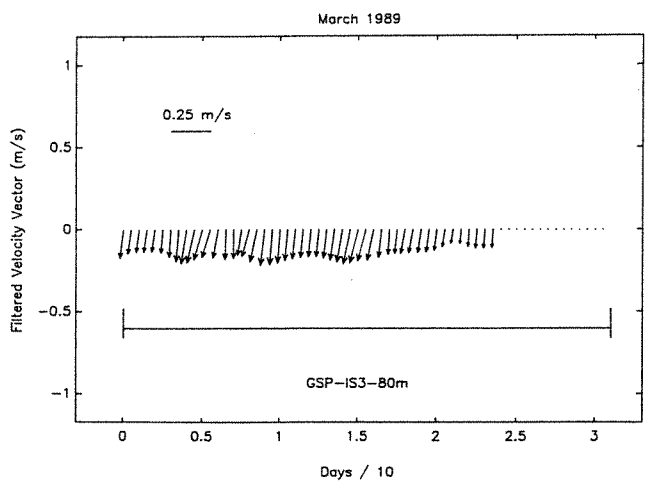
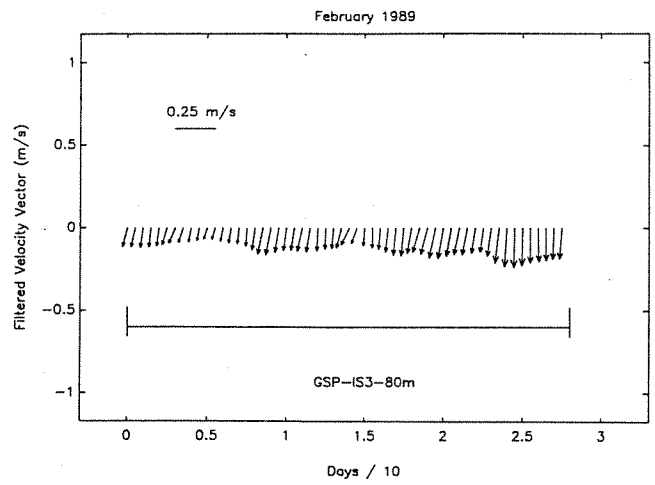
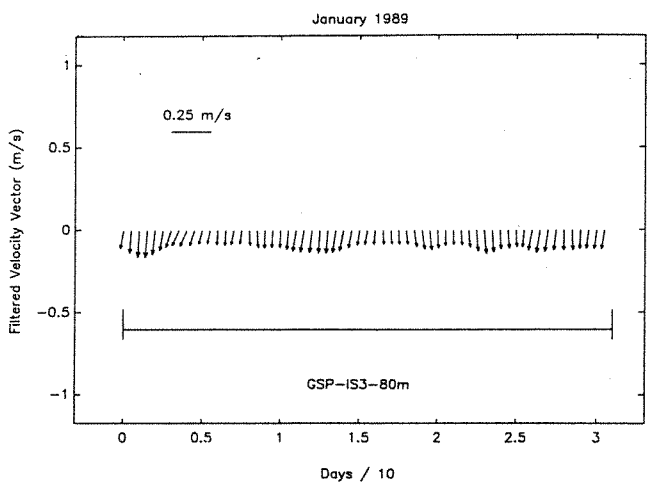
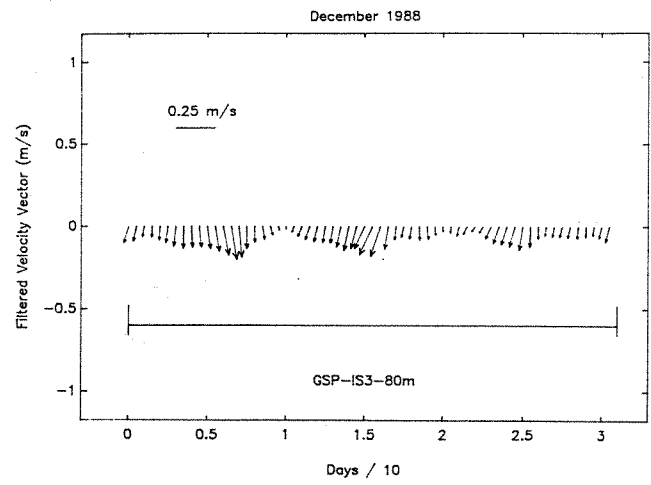
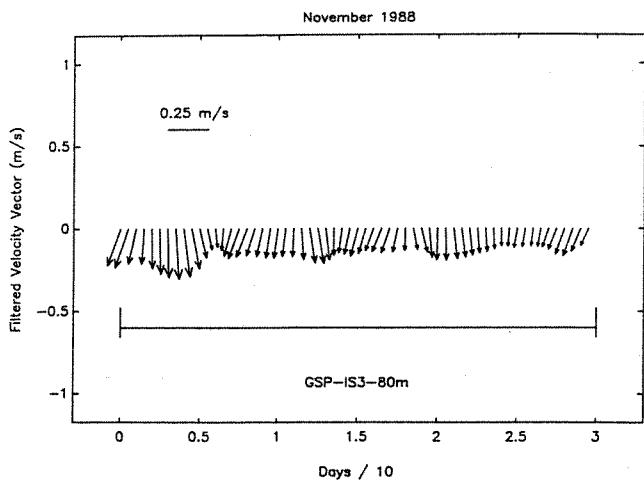
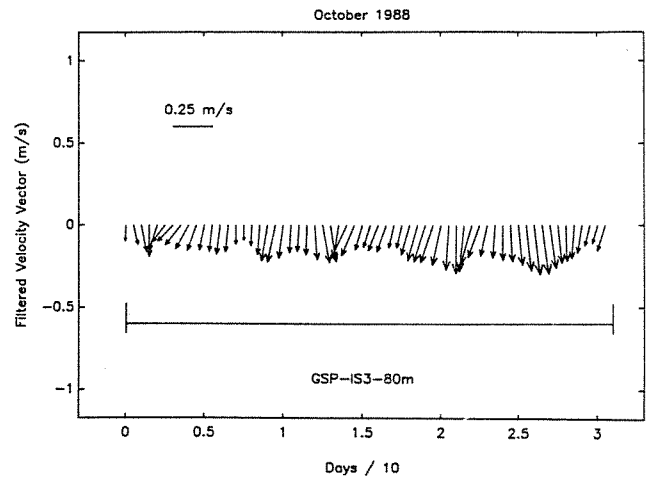
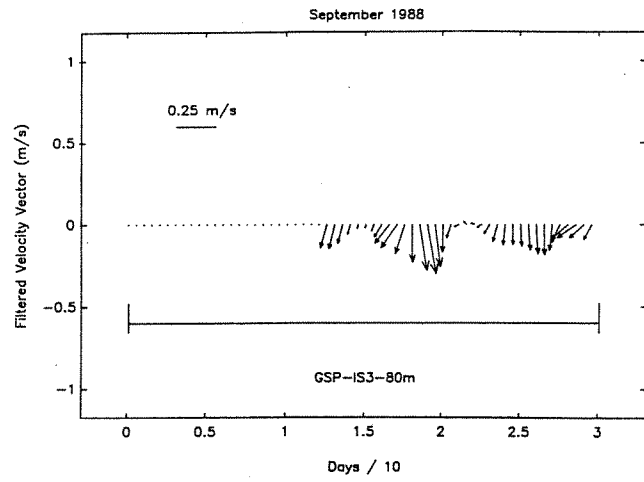
NBA083
IS3 - 80m

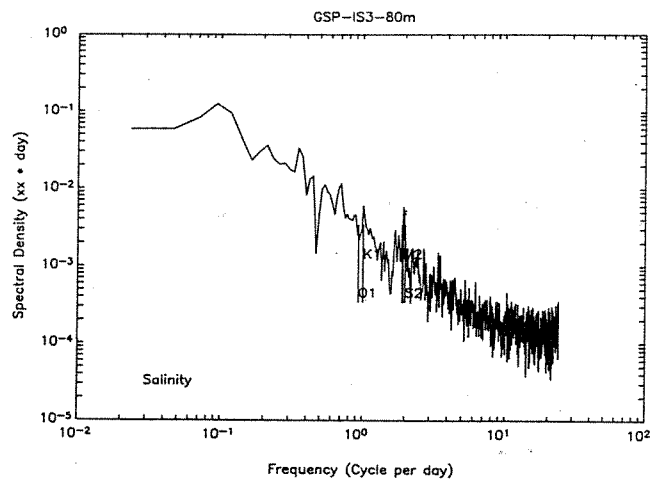
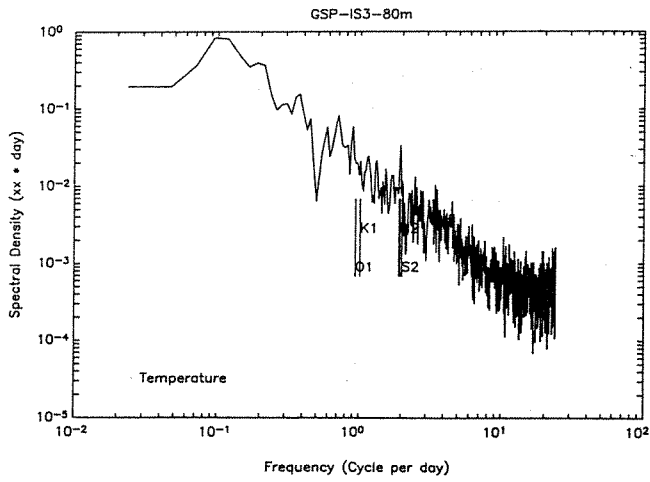
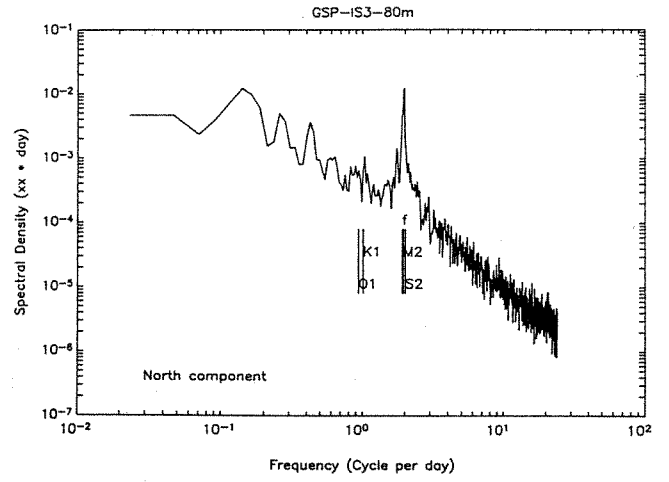
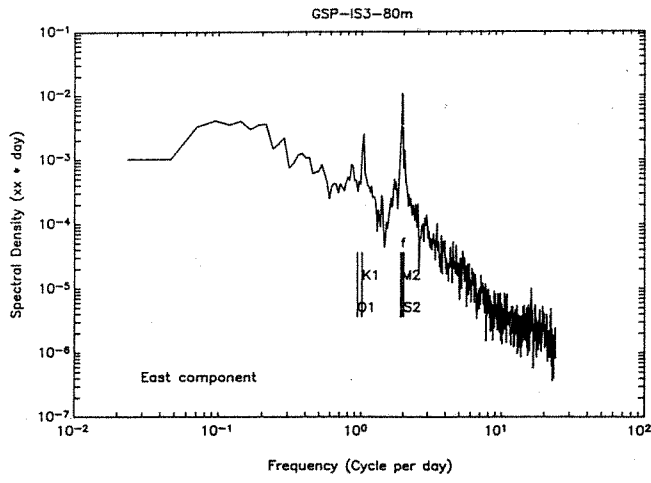
GSP-IS3-80m, 71°N section, 13/9/88-24/3/89. Means and deviation of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	-0.019 (0.028)	-0.142 (0.057)	-1.32 (0.61)	32.80 (0.47)
Sep 88	-0.027 (0.041)	-0.118 (0.078)	-0.36 (0.59)	33.80 (0.31)
Oct 88	-0.026 (0.038)	-0.187 (0.054)	-0.35 (0.56)	33.34 (0.19)
Nov 88	-0.016 (0.035)	-0.171 (0.048)	-1.27 (0.35)	32.77 (0.22)
Dec 88	-0.013 (0.021)	-0.094 (0.044)	-1.66 (0.18)	32.37 (0.12)
Jan 89	-0.009 (0.014)	-0.110 (0.021)	-1.76 (0.03)	32.50 (0.06)
Feb 89	-0.023 (0.012)	-0.144 (0.043)	-1.70 (0.09)	32.61 (0.10)
Mar 89	-0.025 (0.014)	-0.164 (0.034)	-1.63 (0.10)	32.74 (0.09)





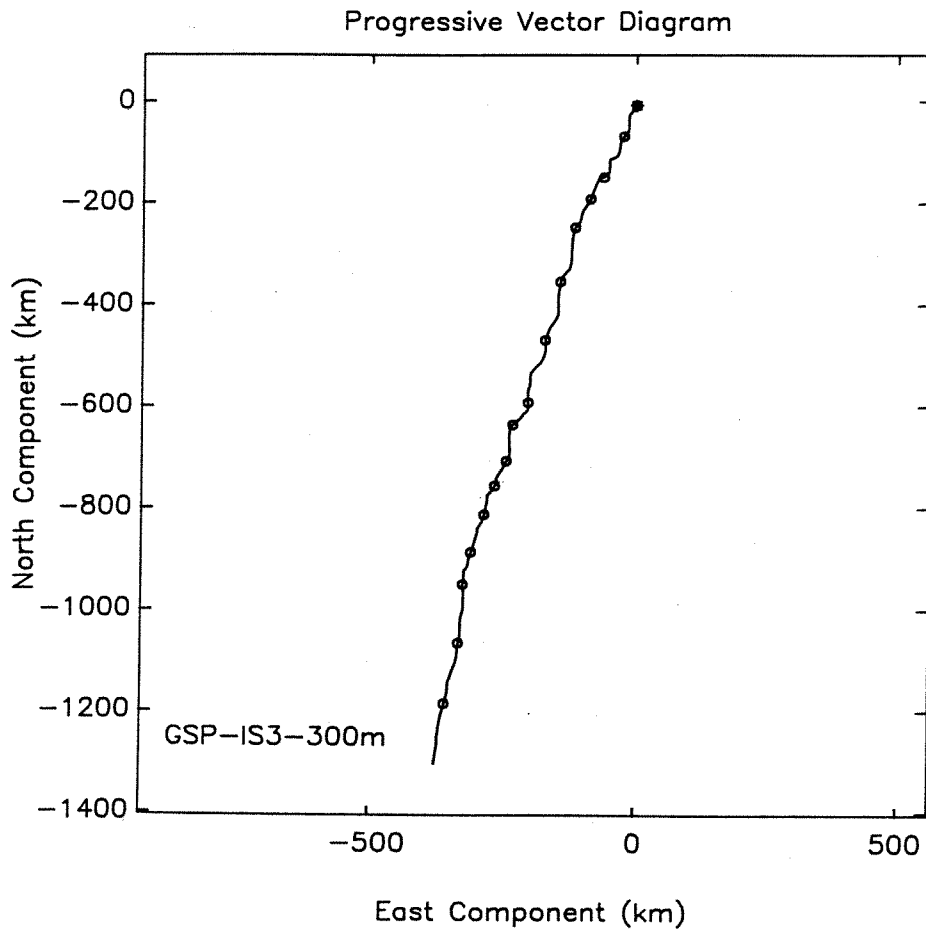


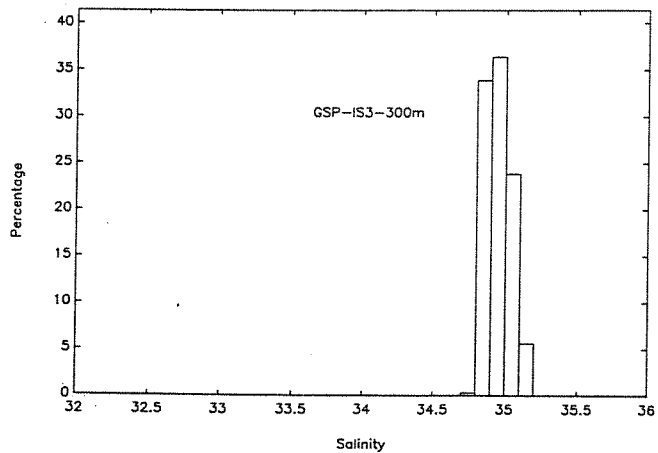
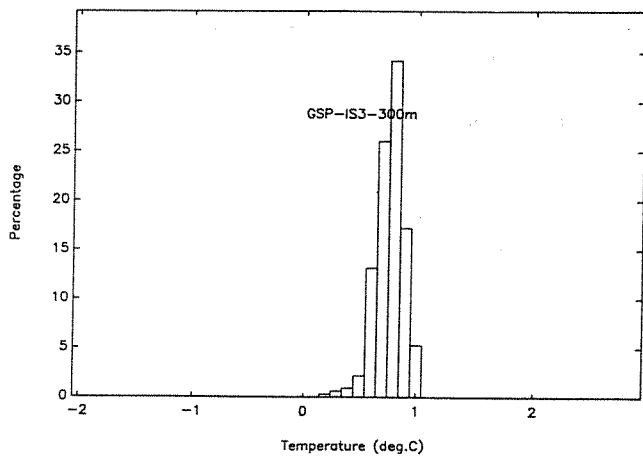
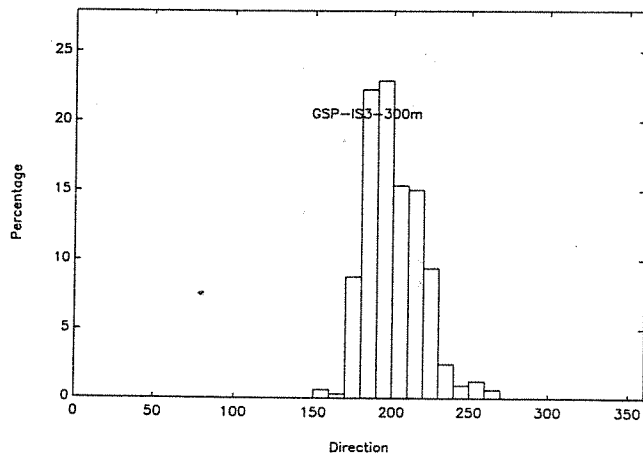
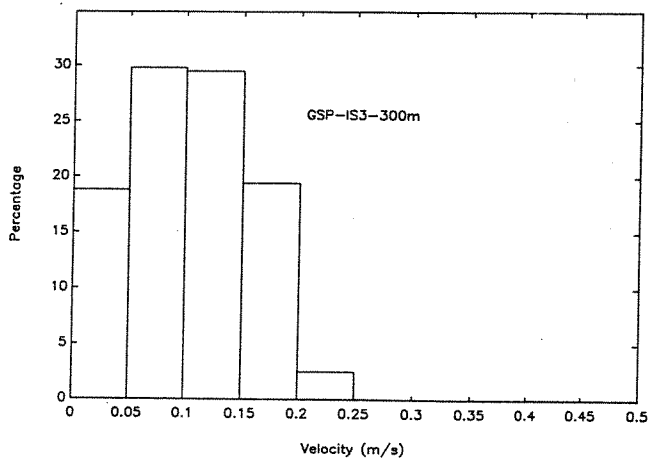
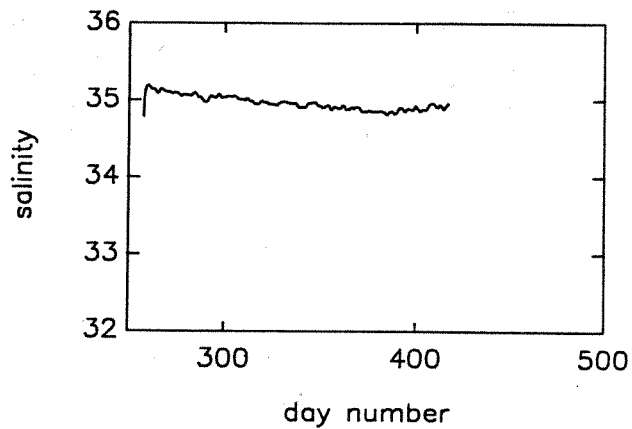
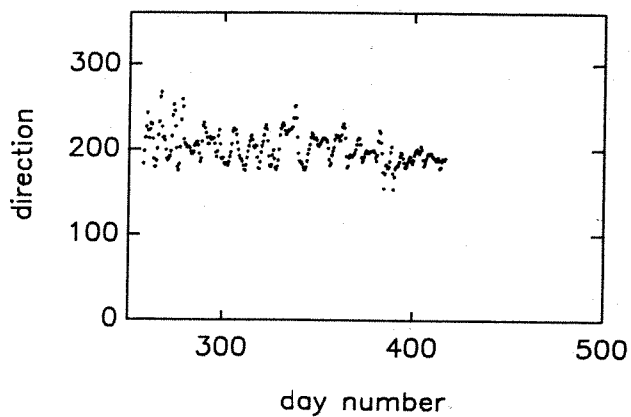
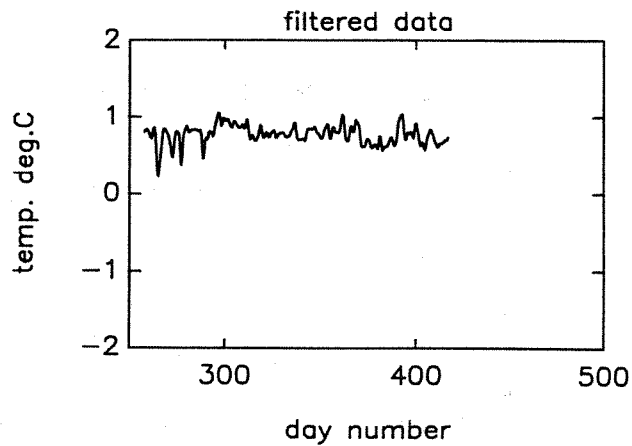
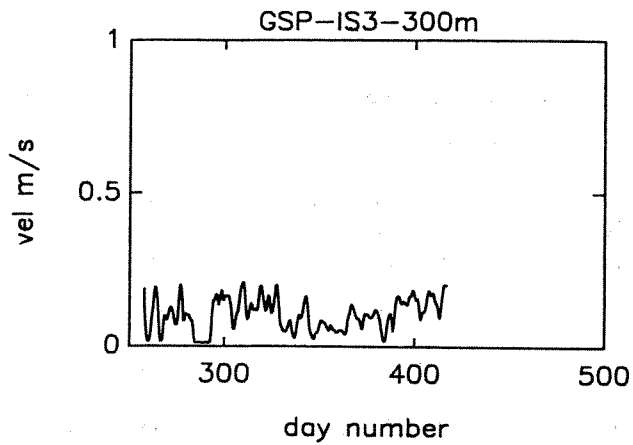


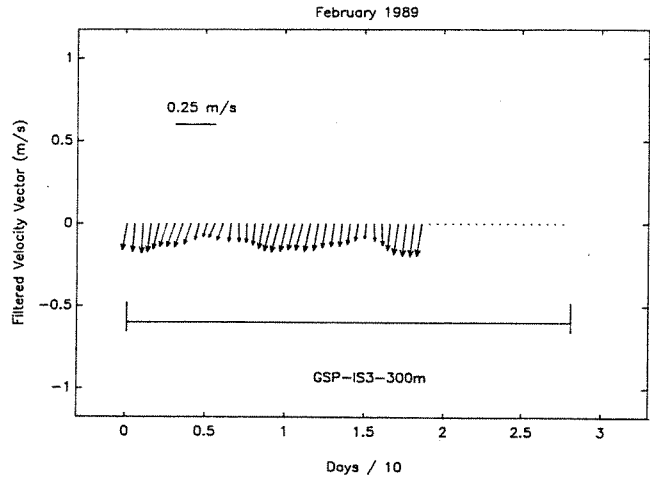
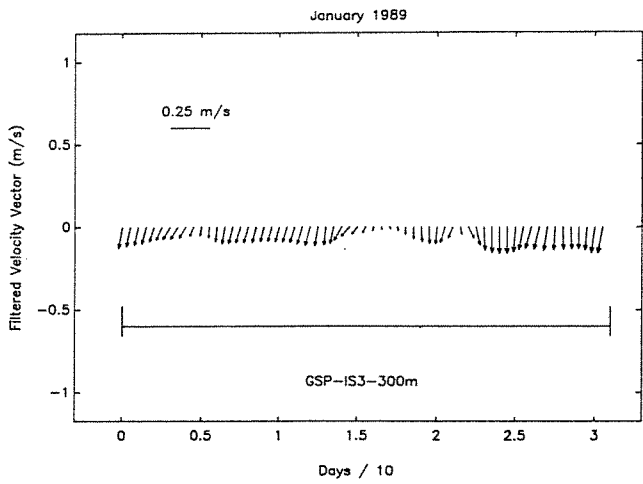
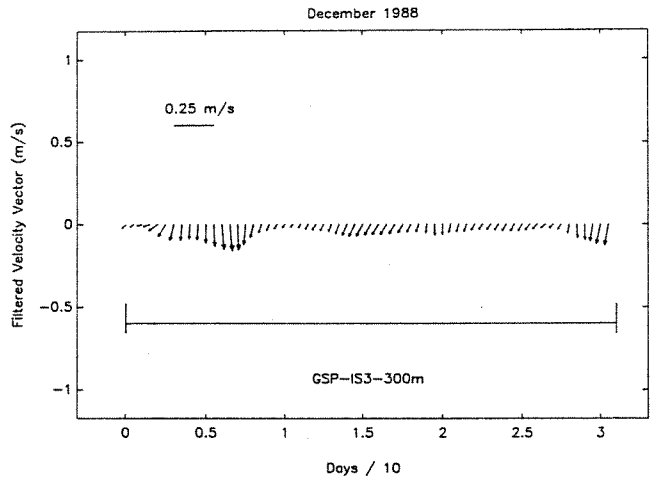
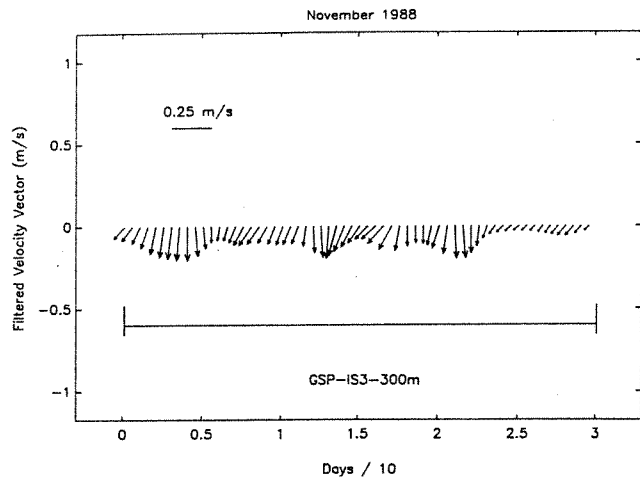
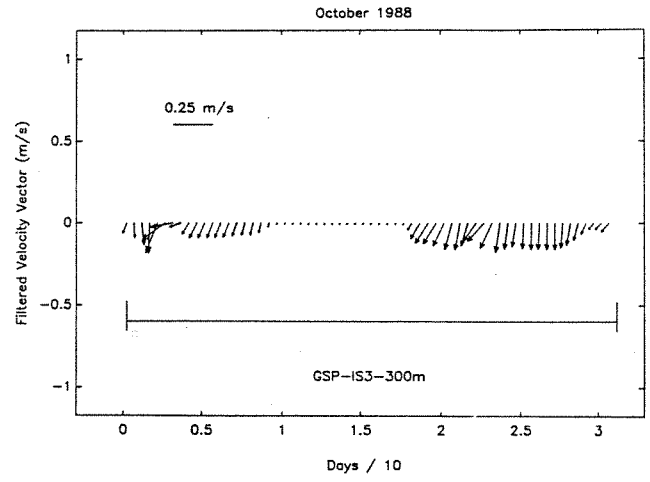
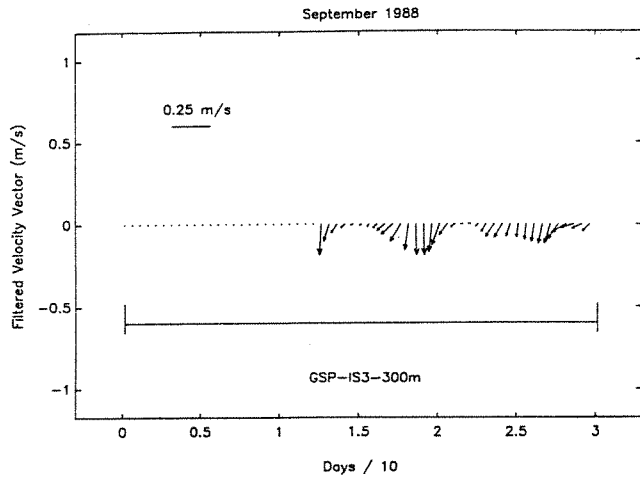
NBA070
IS3 - 300m

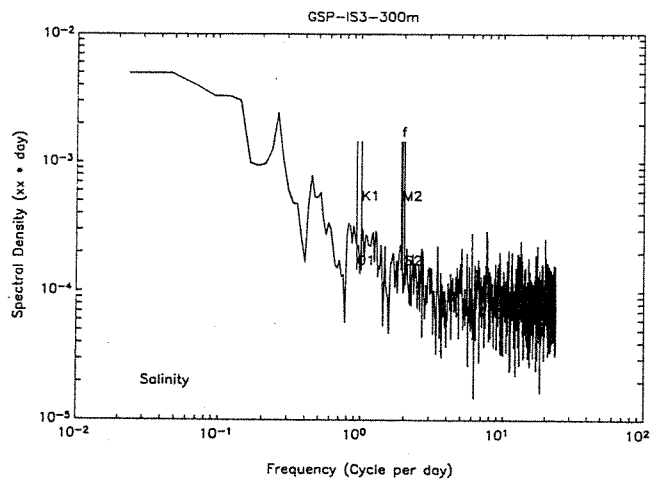
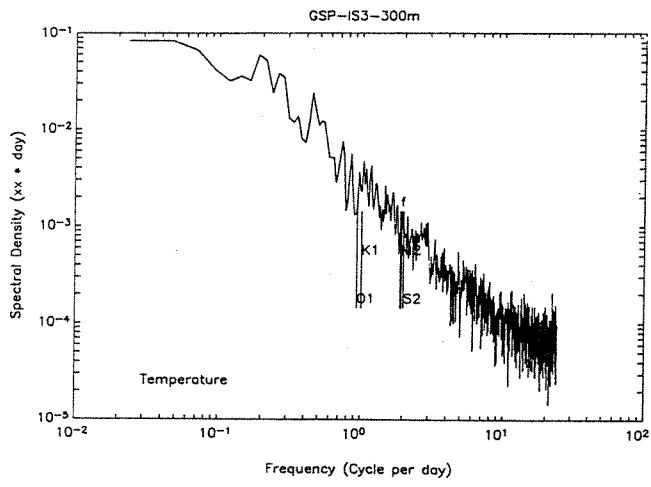
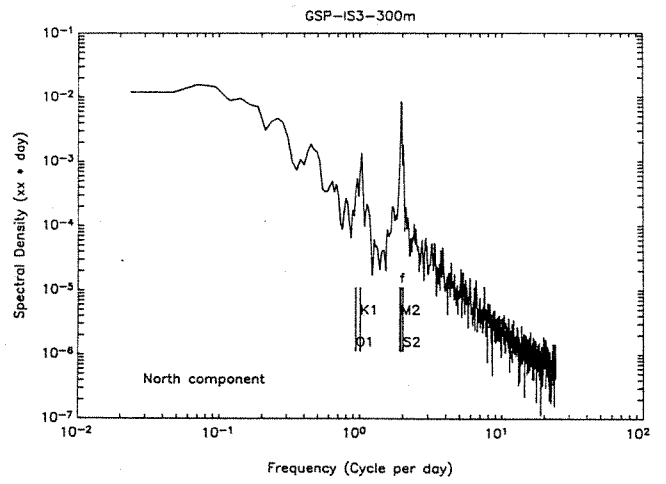
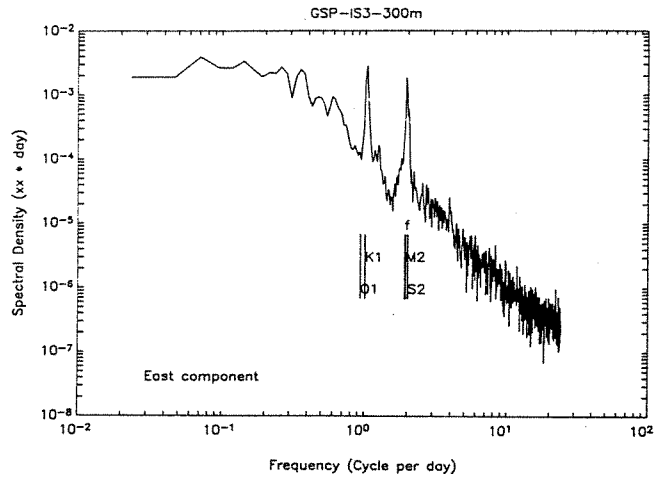
GSP-IS3-300m, 71°N section, 13/9/88-19/2/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	-0.027 (0.025)	-0.099 (0.054)	+0.76 (0.12)	34.96 (0.09)
Sep 88	-0.035 (0.024)	-0.074 (0.057)	+0.68 (0.17)	35.11 (0.06)
Oct 88			+0.82 (0.14)	35.04 (0.03)
Nov 88	-0.037 (0.028)	-0.114 (0.052)	+0.79 (0.07)	34.96 (0.03)
Dec 88	-0.021 (0.014)	-0.063 (0.038)	+0.80 (0.08)	34.91 (0.03)
Jan 89	-0.018 (0.018)	-0.099 (0.039)	+0.72 (0.13)	34.85 (0.03)
Feb 89	-0.027 (0.015)	-0.146 (0.033)	+0.70 (0.09)	34.90 (0.03)





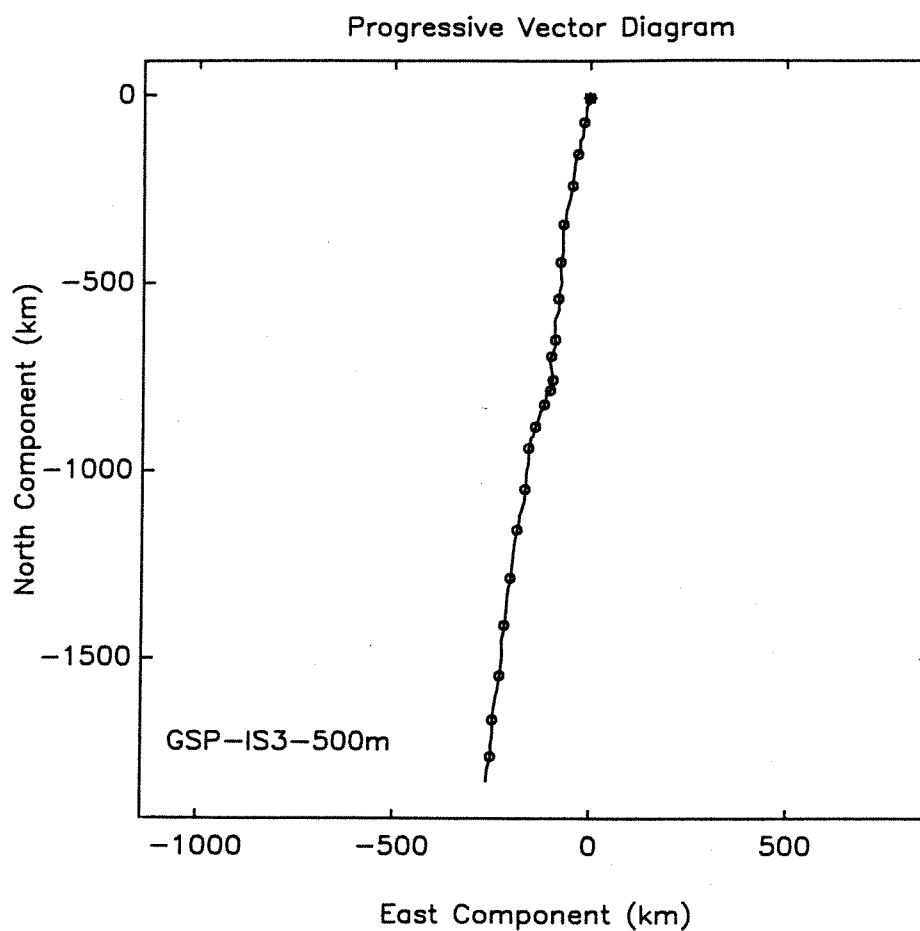


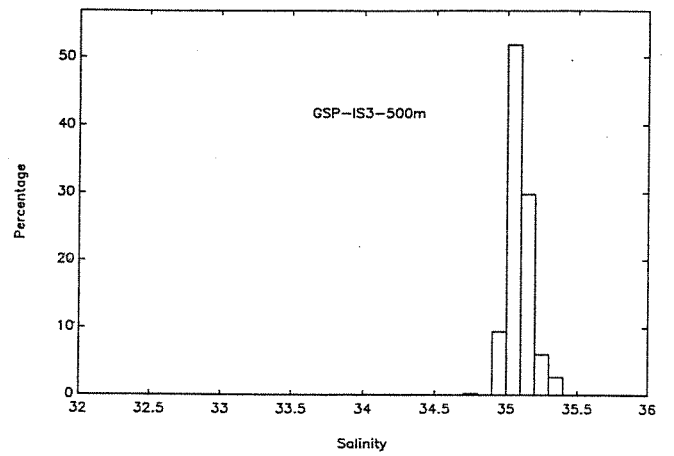
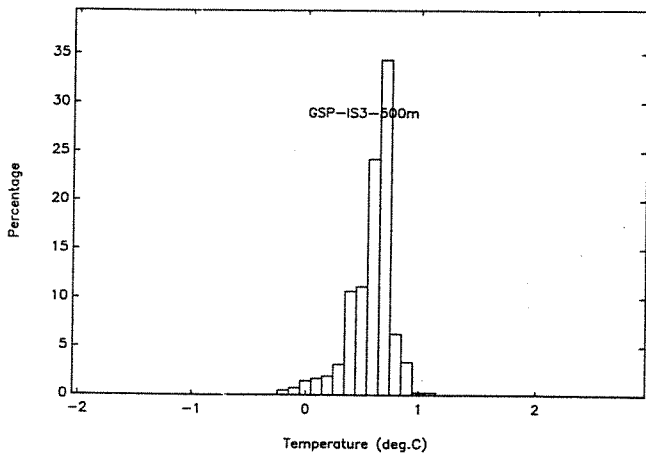
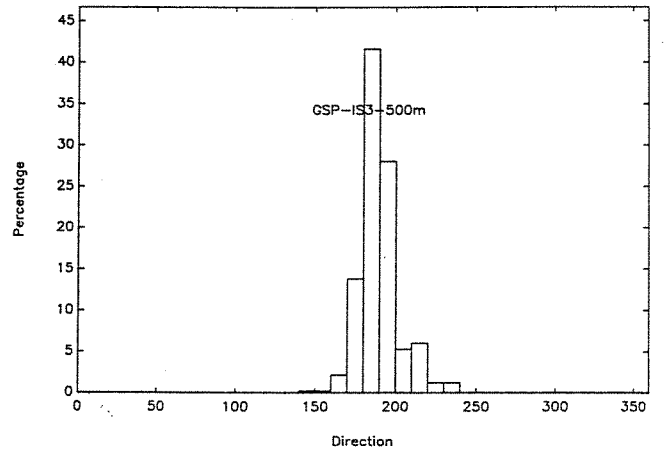
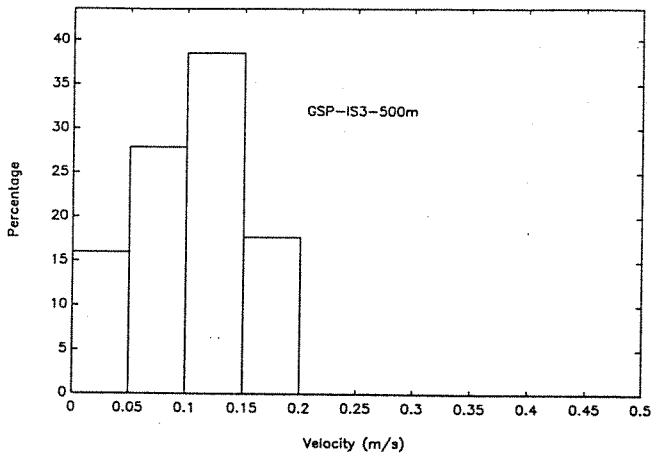
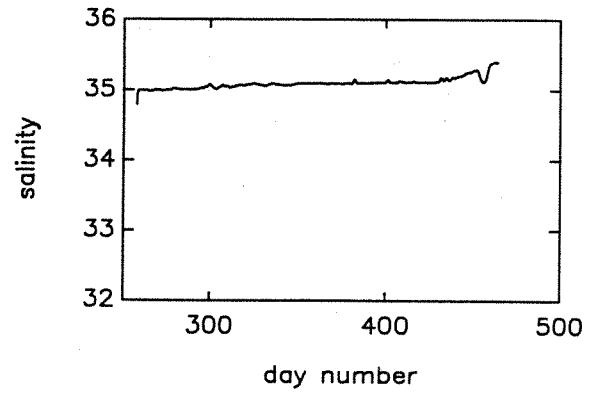
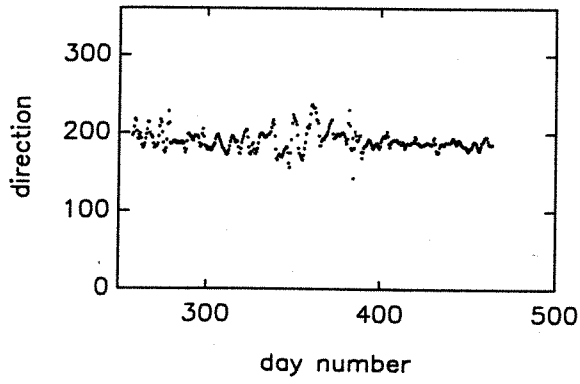
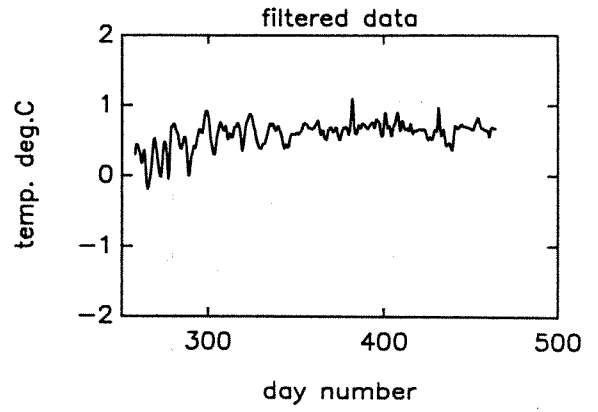
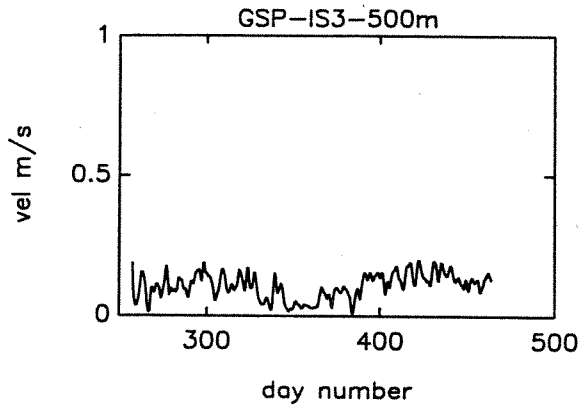


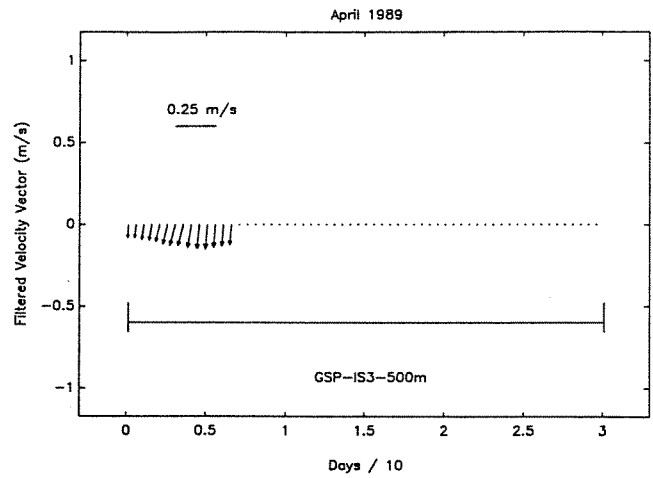
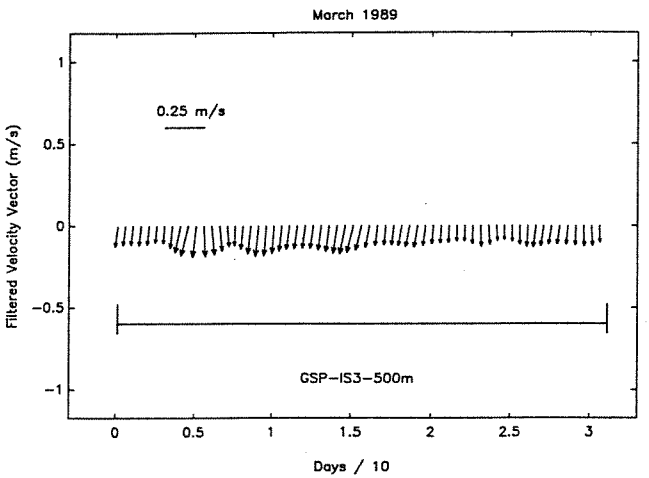
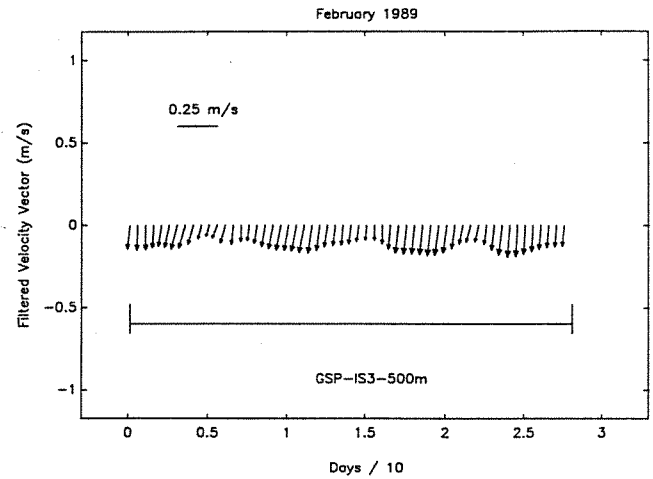
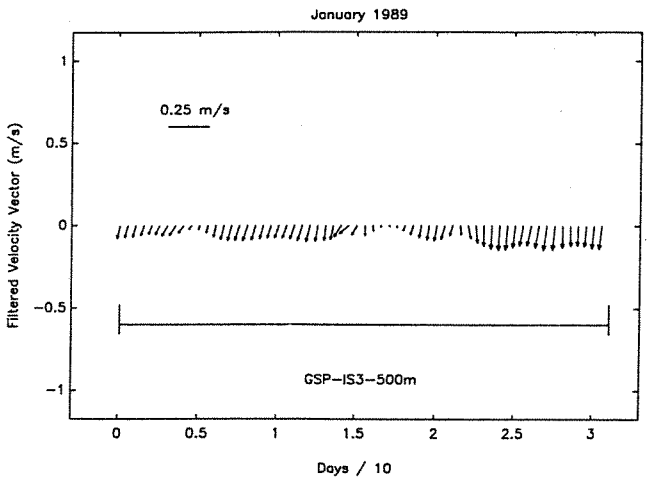
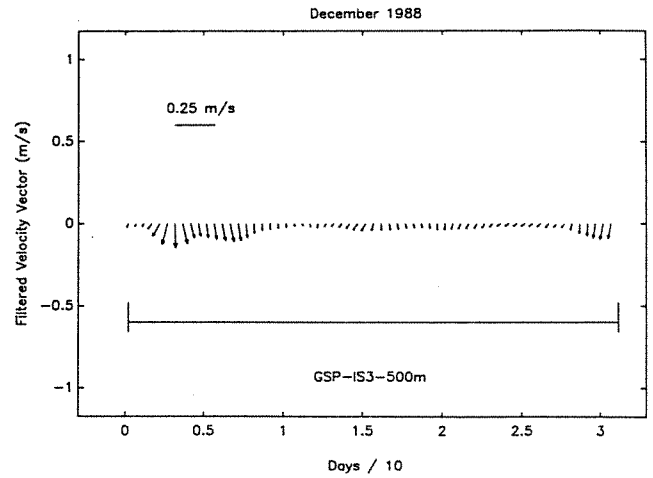
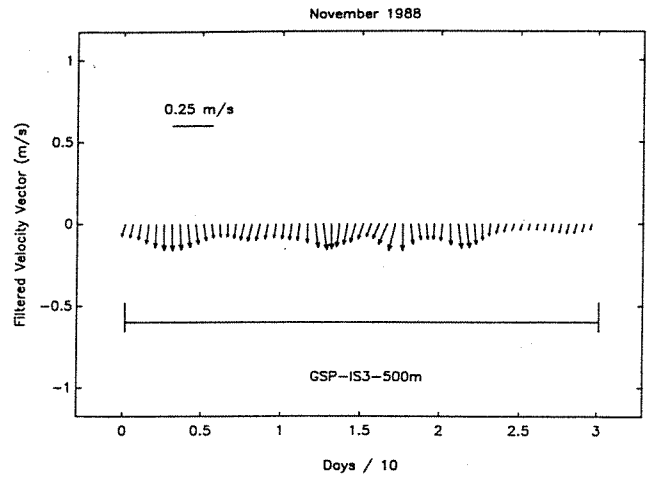
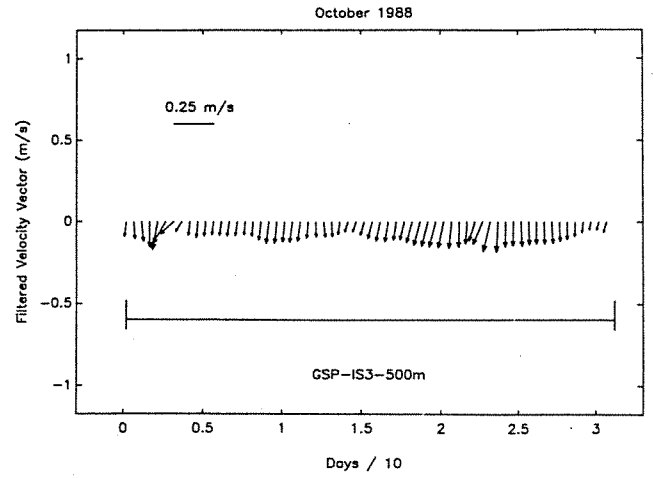
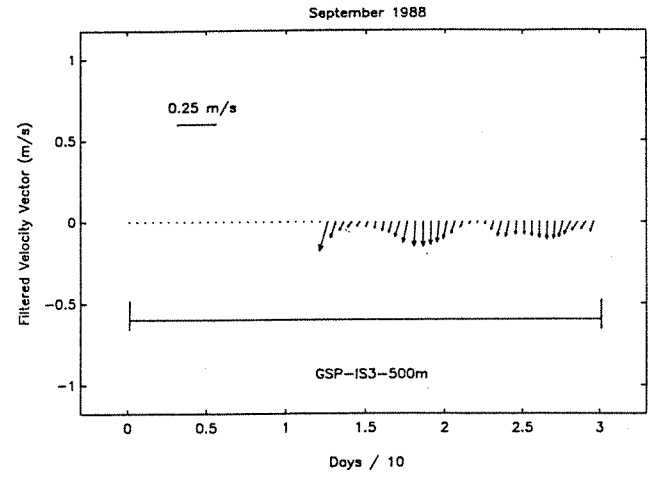
NBA108
IS3 - 500m

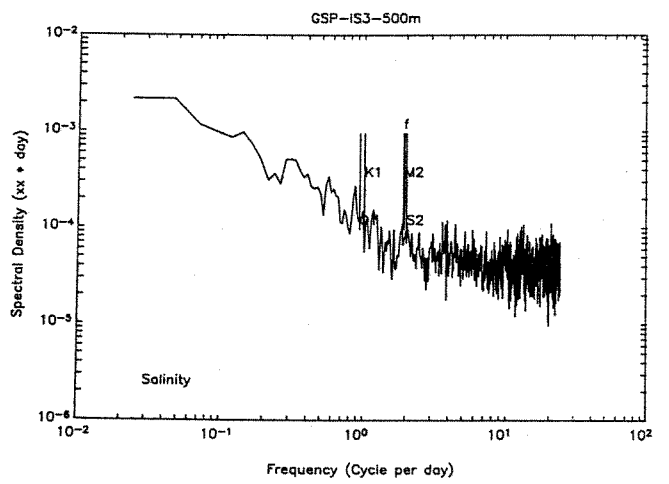
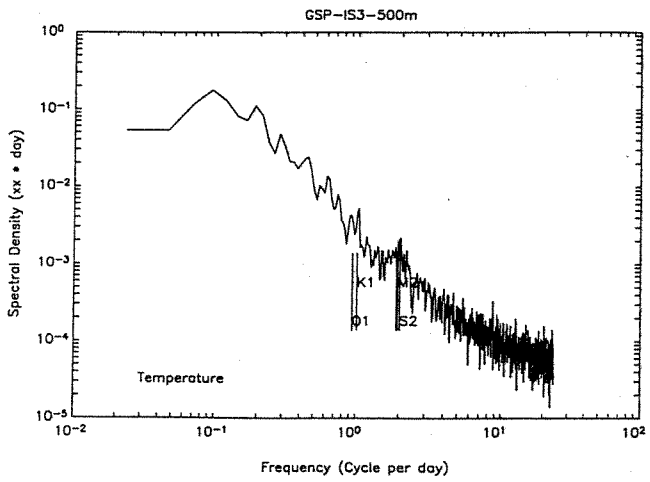
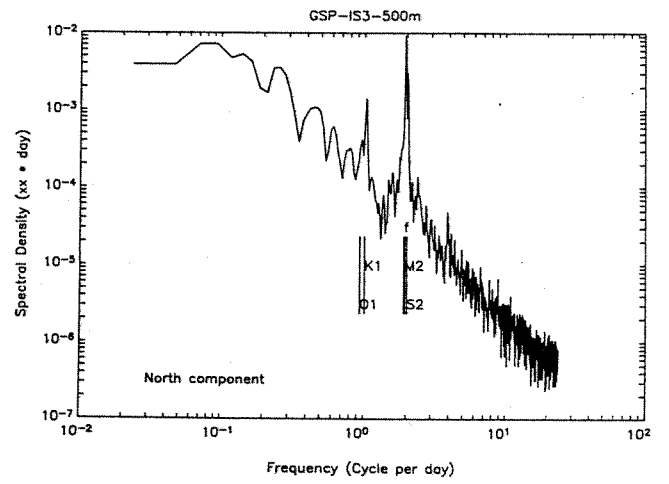
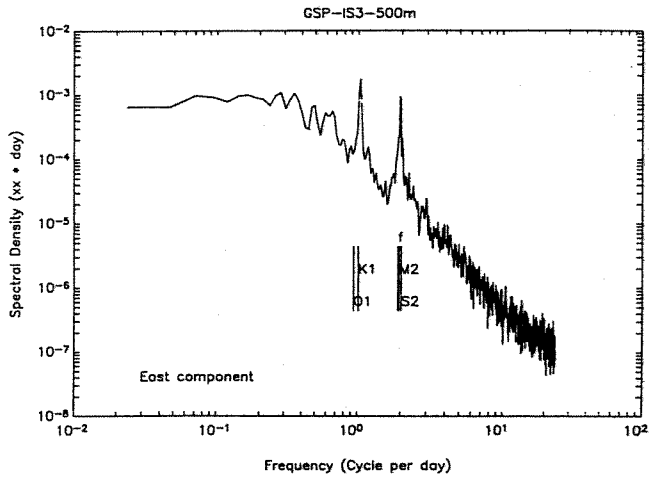
GSP-IS3-500m, 71°N section, 13/9/88-7/4/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	-0.015 (0.015)	-0.102 (0.046)	+0.58 (0.19)	35.09 (0.08)
Sep 88	-0.018 (0.013)	-0.079 (0.043)	+0.22 (0.20)	34.99 (0.03)
Oct 88	-0.017 (0.019)	-0.114 (0.034)	+0.48 (0.23)	35.02 (0.02)
Nov 88	-0.009 (0.017)	-0.101 (0.039)	+0.61 (0.14)	35.06 (0.02)
Dec 88	-0.007 (0.015)	-0.047 (0.025)	+0.62 (0.10)	35.08 (0.01)
Jan 89	-0.018 (0.014)	-0.087 (0.038)	+0.68 (0.10)	35.10 (0.01)
Feb 89	-0.020 (0.010)	-0.141 (0.031)	+0.67 (0.09)	35.11 (0.01)
Mar 89	-0.013 (0.013)	-0.136 (0.026)	+0.63 (0.12)	35.19 (0.06)
Apr 89	-0.020 (0.010)	-0.122 (0.024)	+0.64 (0.04)	35.34 (0.08)









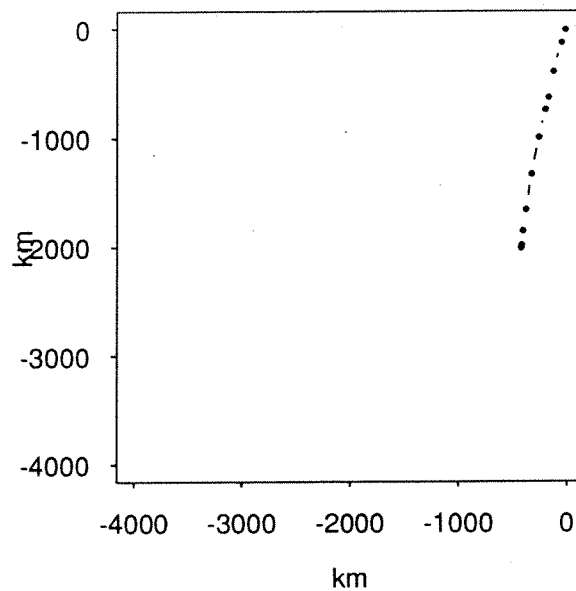
AA685101
IS3 - 750m

GSP-IS3-750m, 71°N section, 15/9/88-4/6/89. Means and deviations of filtered current, temperature and salinity

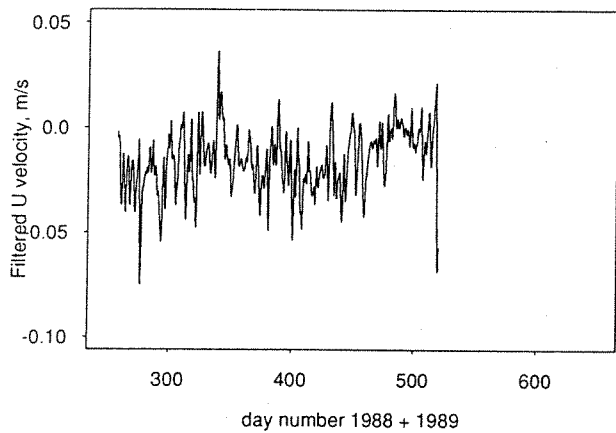
Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu mean (st.dev.)
Total:	-0.016 (0.015)	-0.076 (0.036)	-0.10 (0.13)	34.91 (0.05)
Sep 88	-0.024 (0.010)	-0.068 (0.026)	-0.36 (0.10)	35.05 (0.04)
Oct 88	-0.024 (0.015)	-0.086 (0.021)	-0.18 (0.14)	34.93 (0.02)
Nov 88	-0.016 (0.014)	-0.079 (0.028)	-0.12 (0.13)	34.87 (0.06)
Dec 88	-0.009 (0.014)	-0.036 (0.018)	-0.11 (0.10)	34.86 (0.03)
Jan 89	-0.019 (0.012)	-0.081 (0.031)	0.01 (0.10)	34.90 (0.01)
Feb 89	-0.026 (0.011)	-0.121 (0.029)	-0.06 (0.06)	34.90 (0.01)
Mar 89	-0.016 (0.014)	-0.104 (0.023)	-0.08 (0.11)	34.91 (0.02)
Apr 89	-0.010 (0.013)	-0.065 (0.029)	-0.03 (0.05)	34.91 (0.01)
May 89	-0.003 (0.007)	-0.042 (0.014)	-0.13 (0.08)	34.90 (0.01)
Jun 89	-0.024 (0.036)	-0.084 (0.023)	-0.19 (0.05)	34.90 (0.01)

Salinity was corrected by a constant.

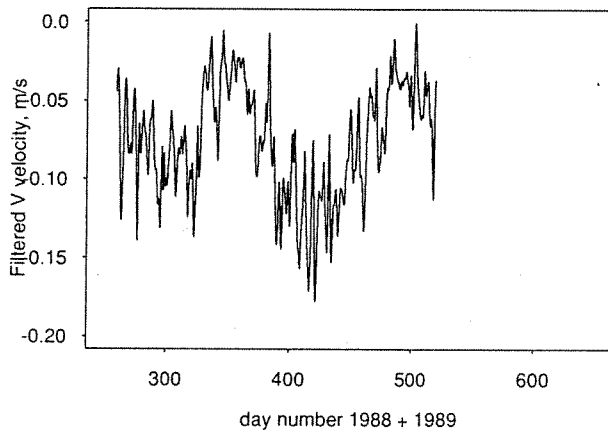
Prog.Vector GSP-IS3-750m



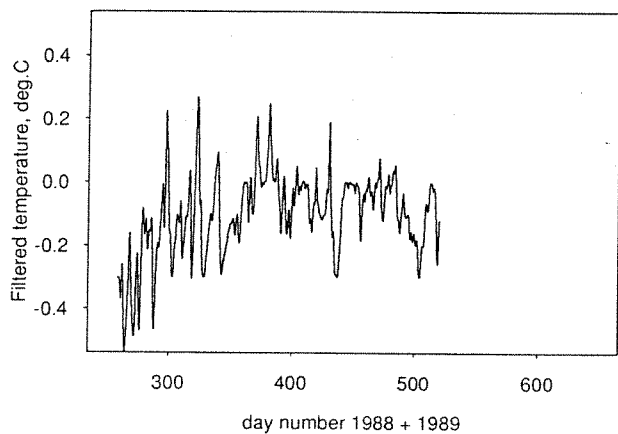
GSP-IS3-750m



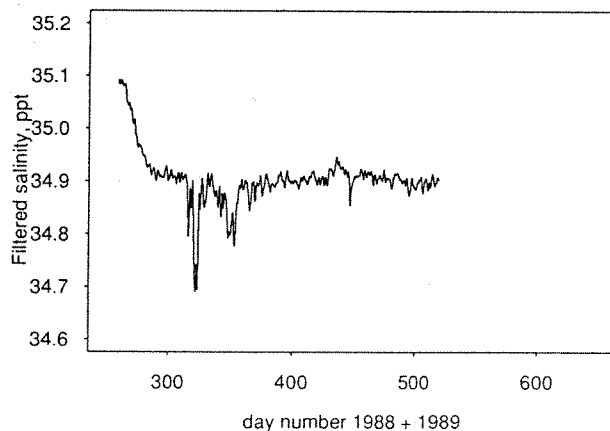
GSP-IS3-750m



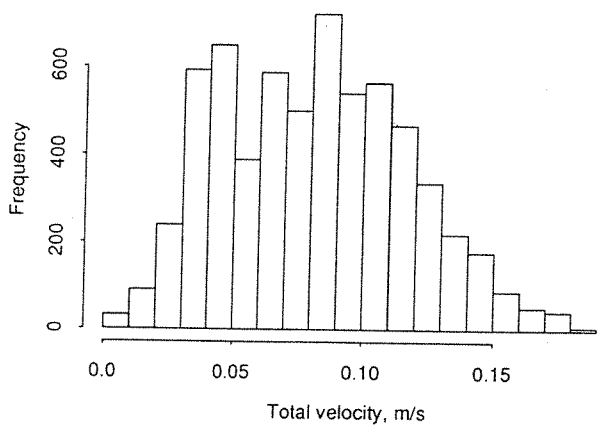
GSP-IS3-750m



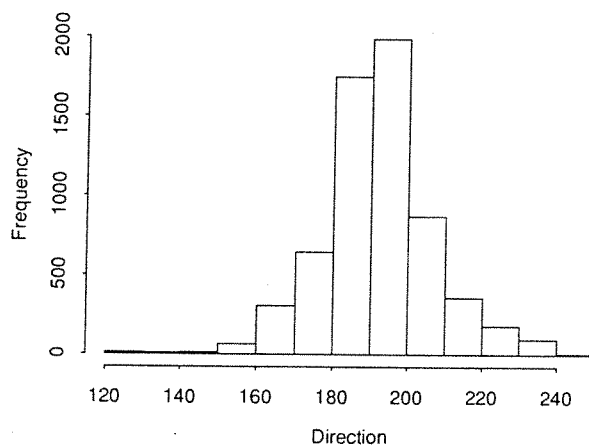
GSP-IS3-750m



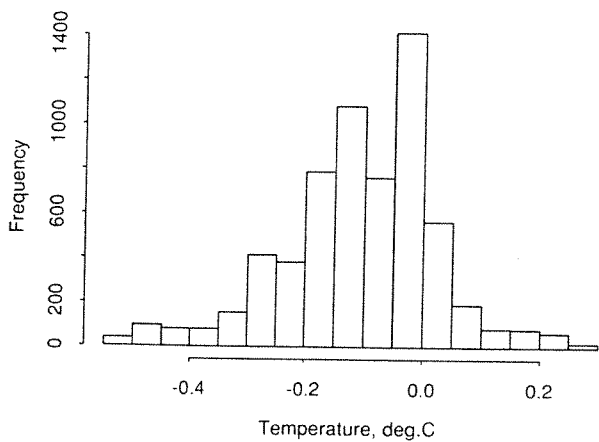
GSP-IS3-750m



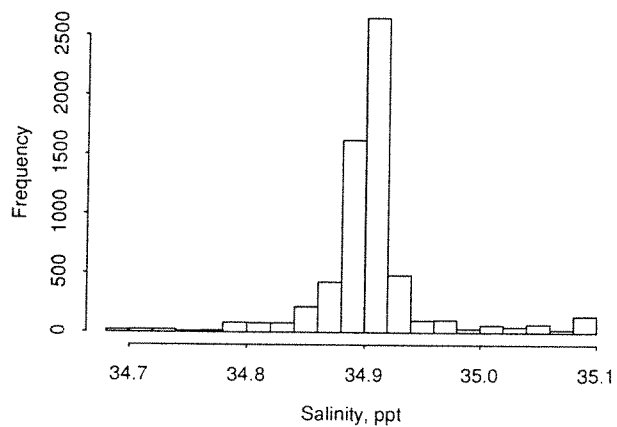
GSP-IS3-750m



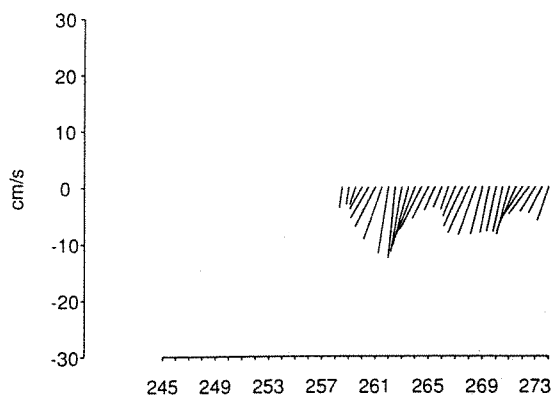
GSP-IS3-750m



GSP-IS3-750m

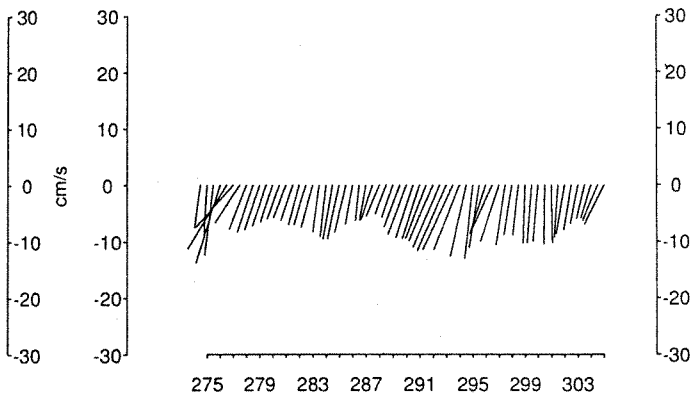


GSP-IS3-750m, SEPTEMBER 1988



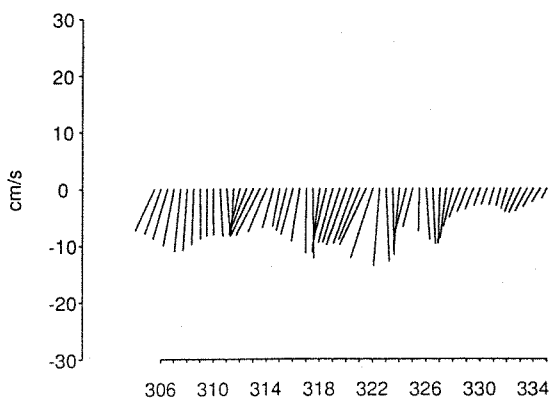
Day number 1988

GSP-IS3-750m, OCTOBER 1988



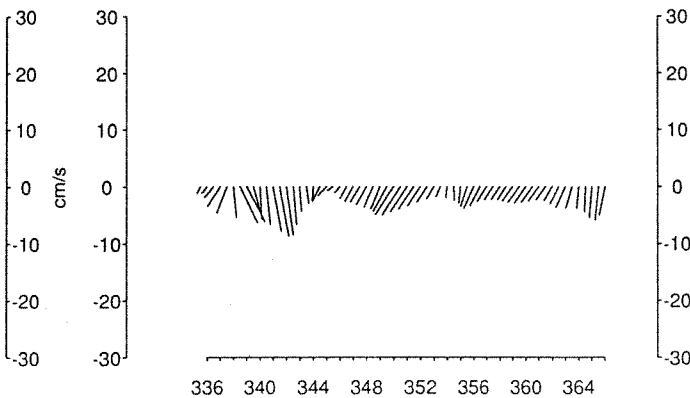
Day number 1988

GSP-IS3-750m, NOVEMBER 1988



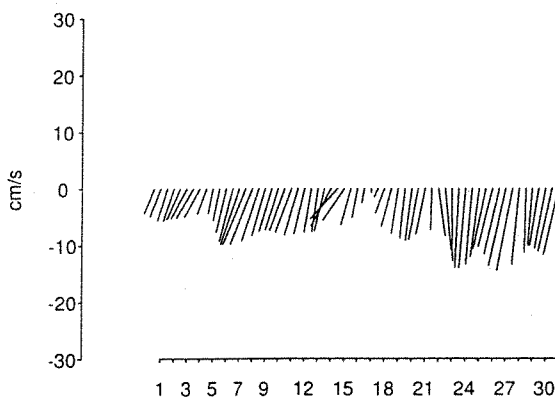
Day number 1988

GSP-IS3-750m, DECEMBER 1988



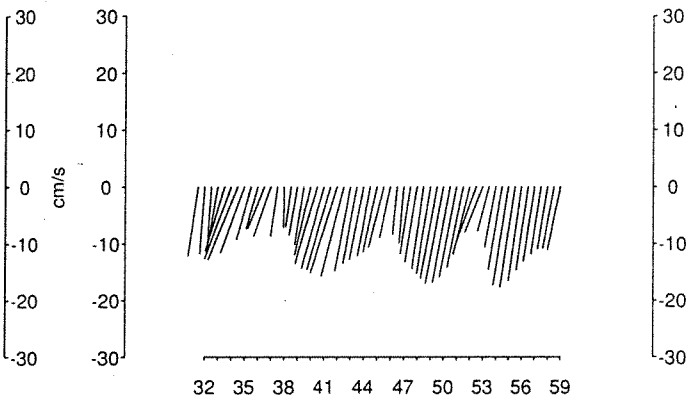
Day number 1988

GSP-IS3-750m, JANUARY 1989



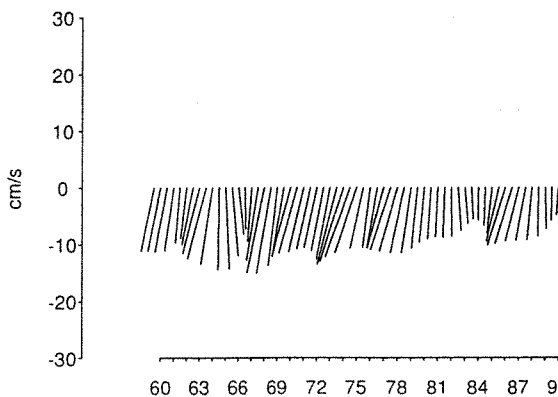
Day number 1989

GSP-IS3-750m, FEBRUARY 1989



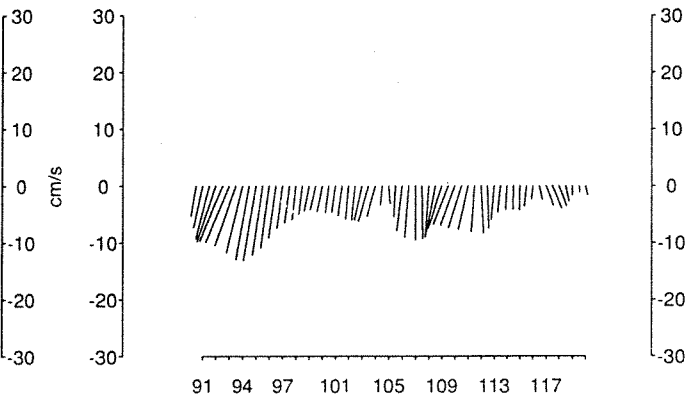
Day number 1989

GSP-IS3-750m, MARCH 1989



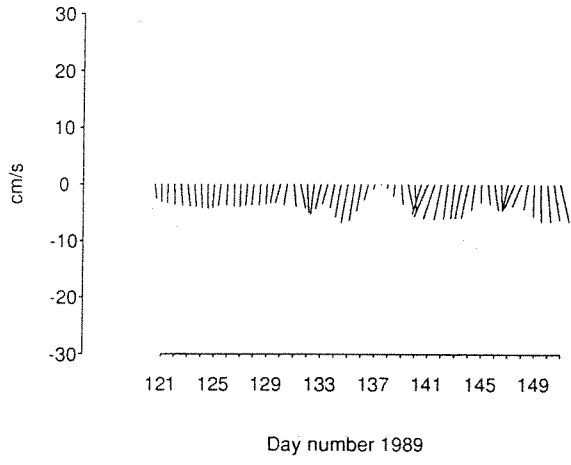
Day number 1989

GSP-IS3-750m, APRIL 1989

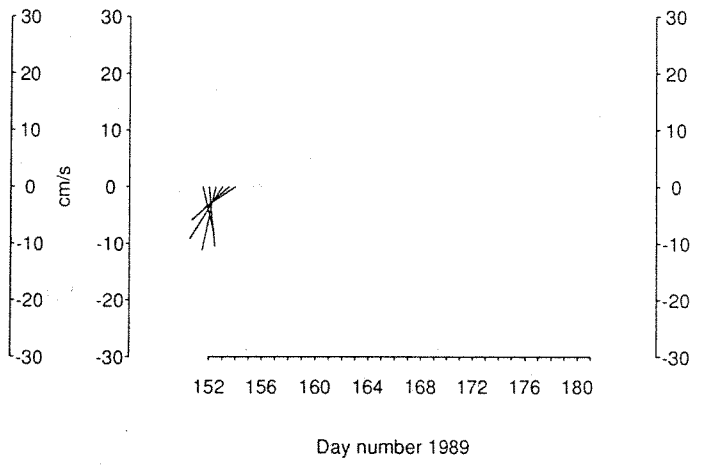


Day number 1989

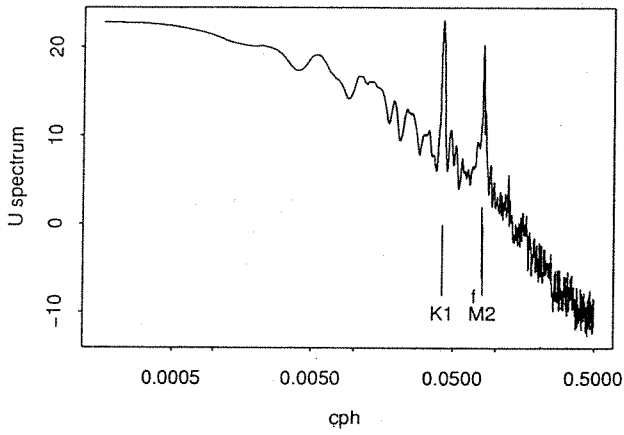
GSP-IS3-750m, MAY 1989



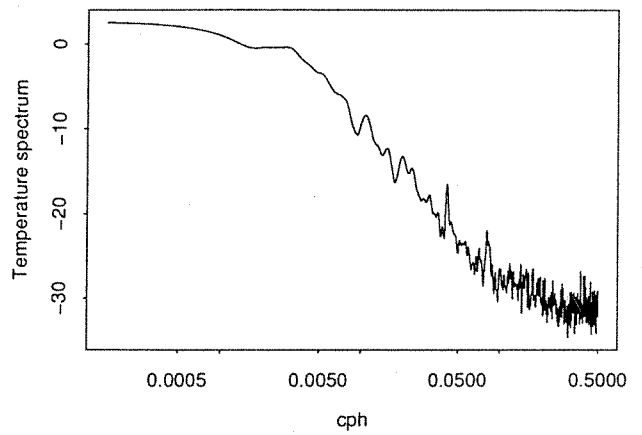
GSP-IS3-750m, JUNE 1989



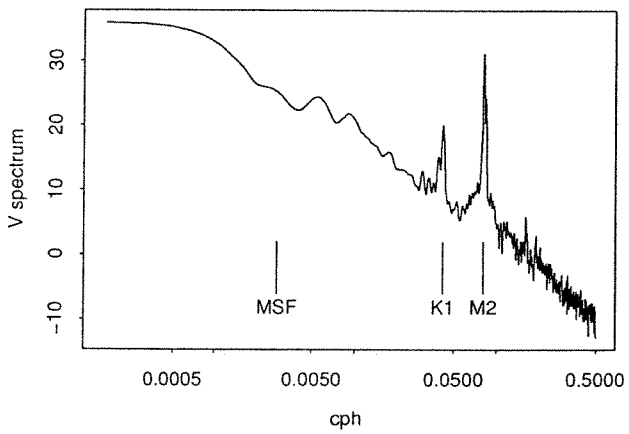
GSP-IS3-750m



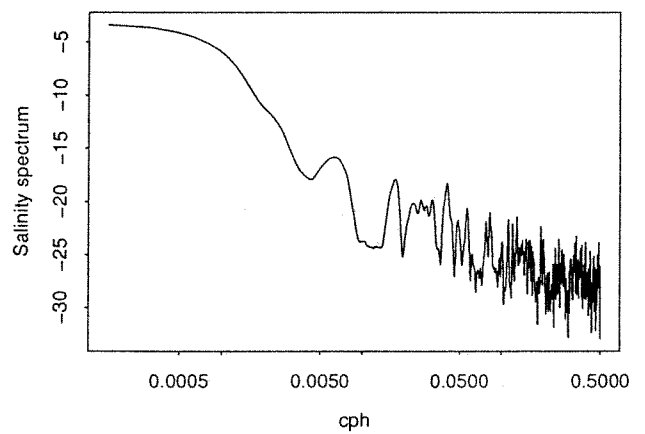
GSP-IS3-750m



GSP-IS3-750m



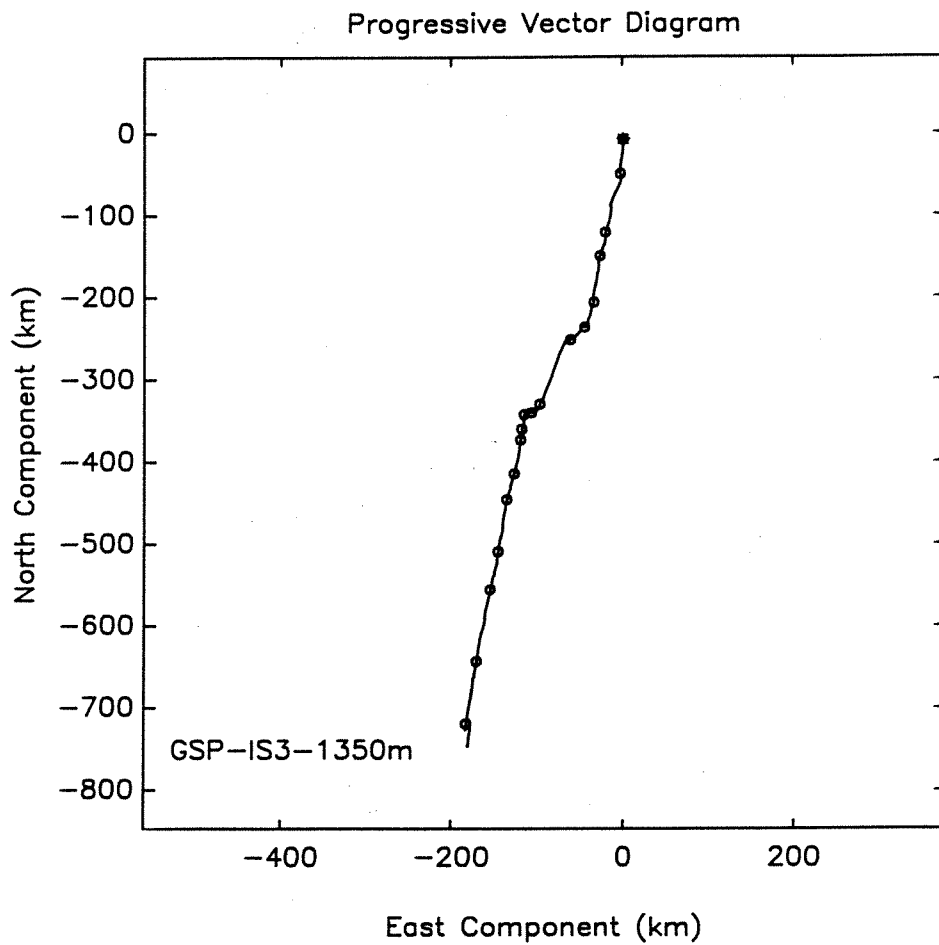
GSP-IS3-750m

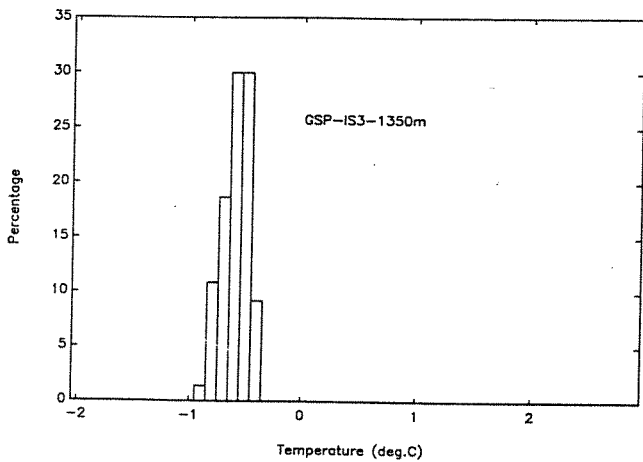
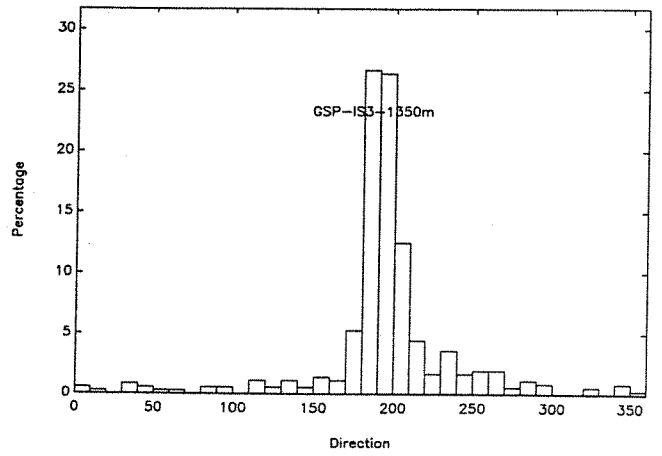
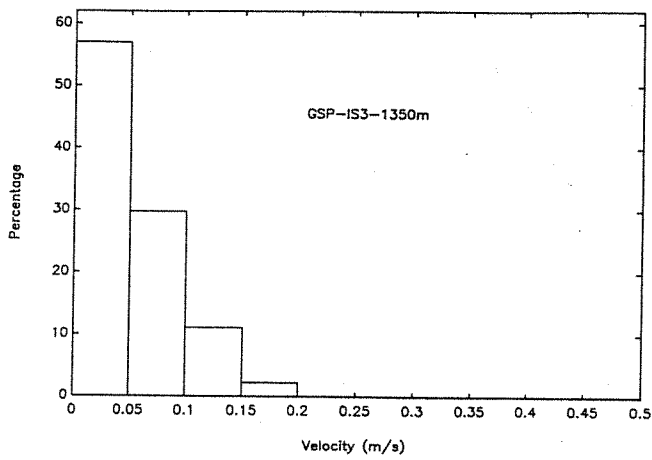
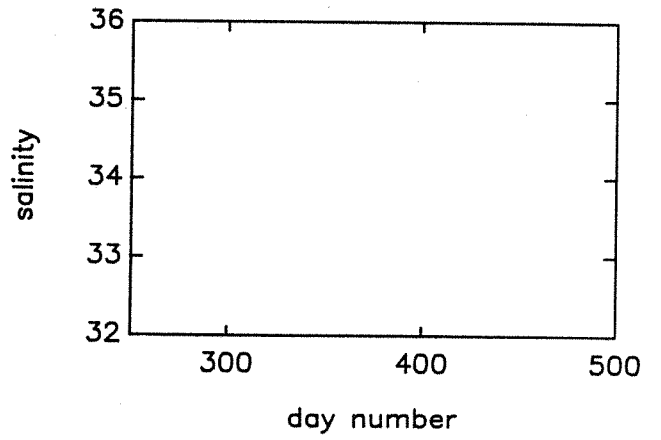
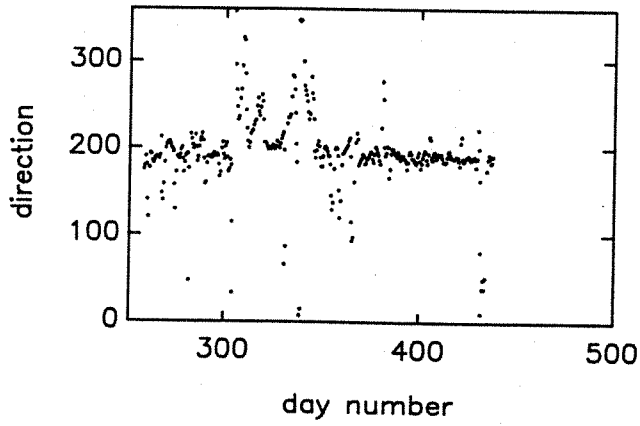
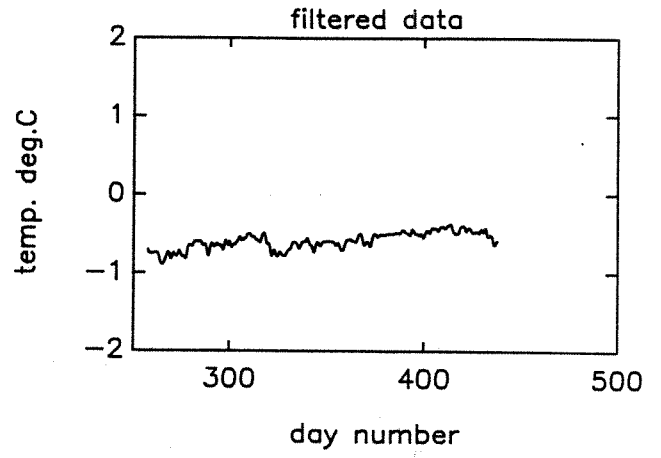
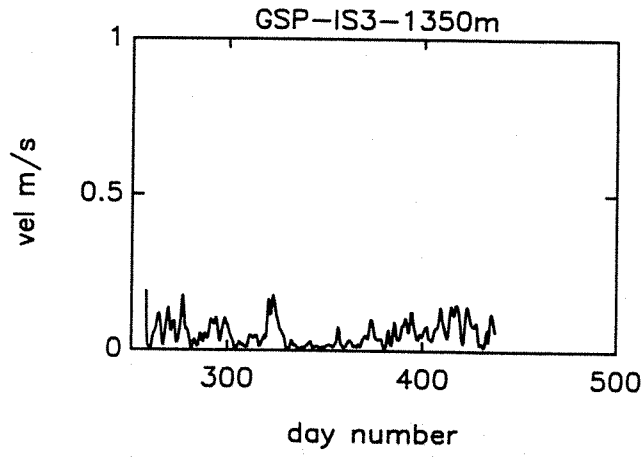


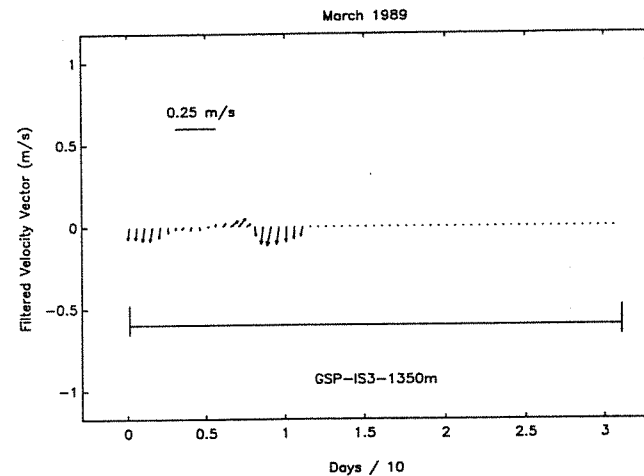
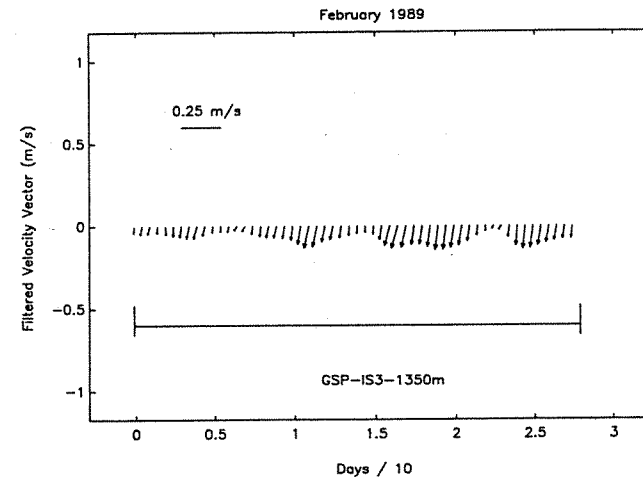
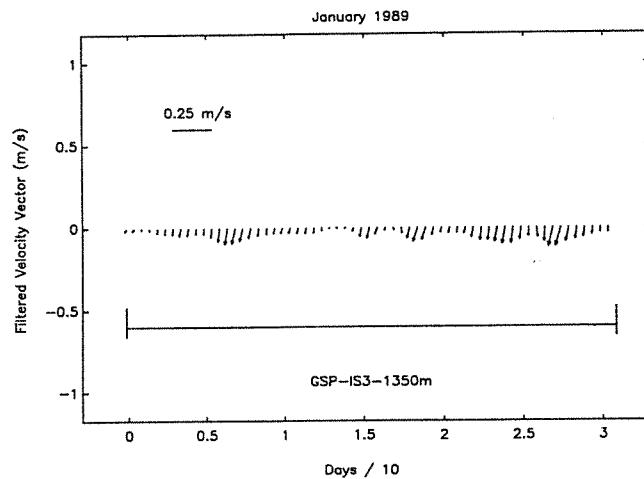
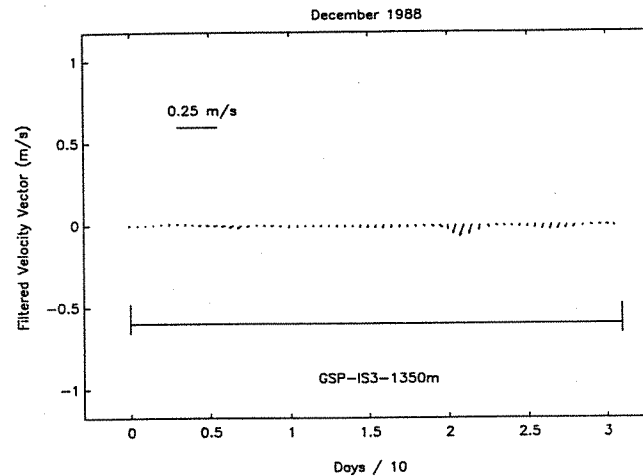
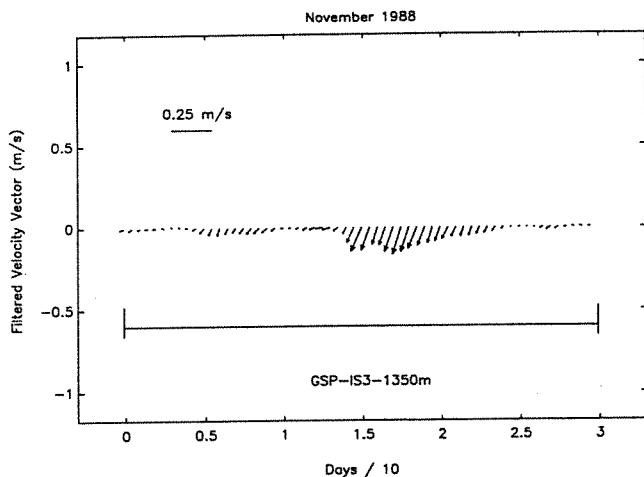
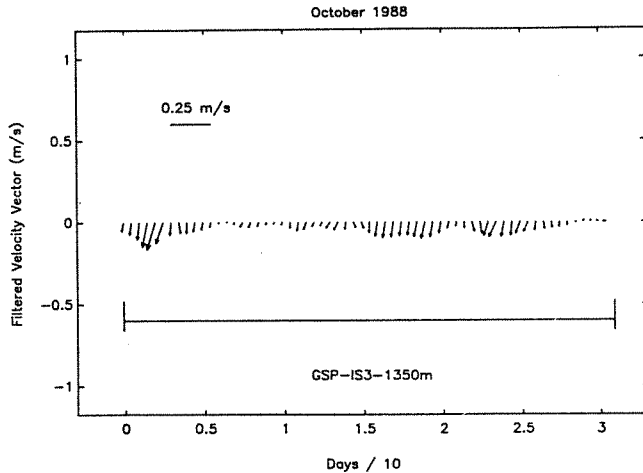
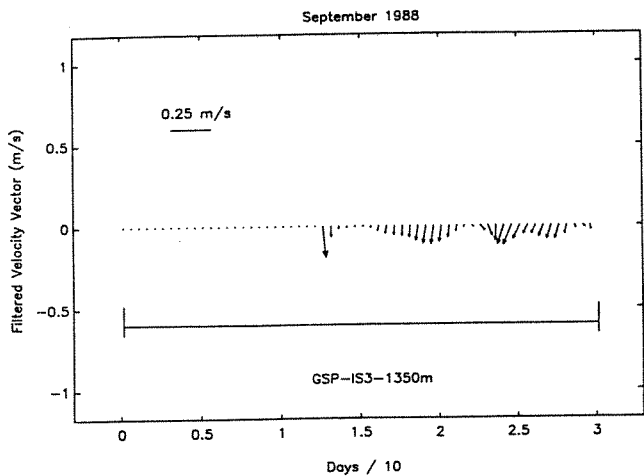
NBA089
IS3 - 1350m

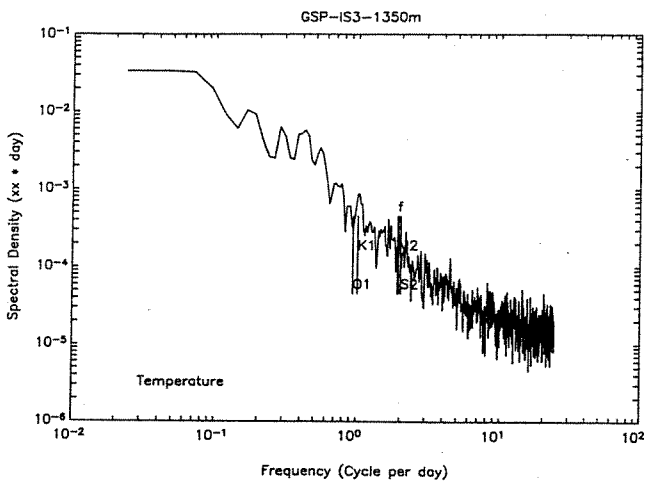
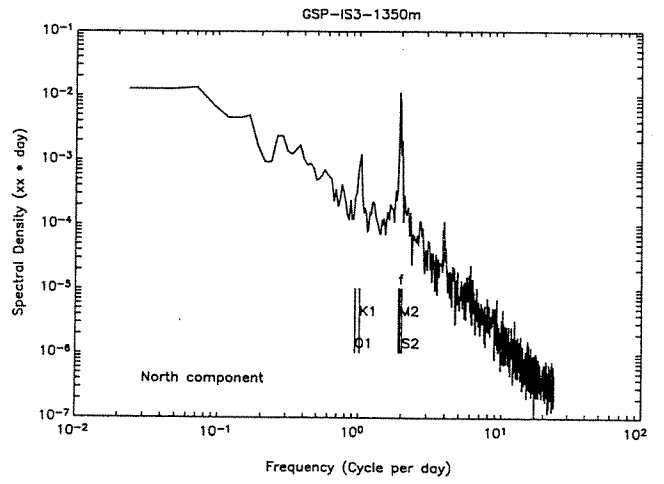
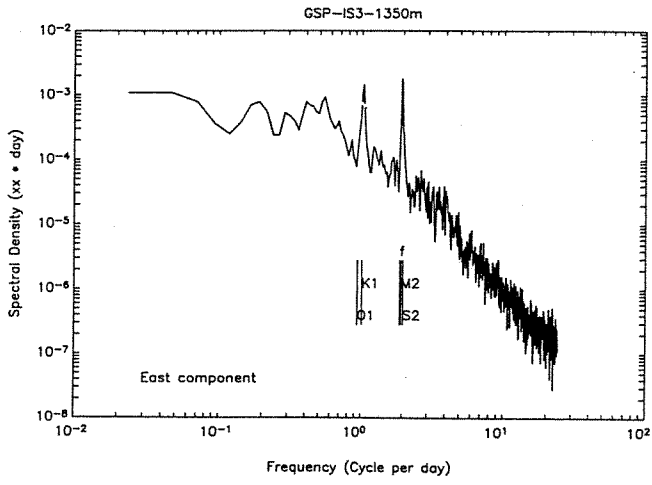
GSP-IS3-1350m, 71°N section, 13/9/88-12/3/89. Means and deviations of filtered current, temperature.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)
Total:	-0.012 (0.015)	-0.048 (0.042)	-0.60 (0.11)
Sep 88	-0.009 (0.019)	-0.055 (0.043)	-0.78 (0.05)
Oct 88	-0.011 (0.014)	-0.053 (0.037)	-0.66 (0.07)
Nov 88	-0.025 (0.016)	-0.040 (0.048)	-0.64 (0.10)
Dec 88	-0.004 (0.009)	-0.012 (0.015)	-0.62 (0.05)
Jan 89	-0.010 (0.008)	-0.052 (0.030)	-0.52 (0.05)
Feb 89	-0.015 (0.009)	-0.081 (0.037)	-0.45 (0.04)
Mar 89	-0.001 (0.018)	-0.042 (0.051)	-0.52 (0.07)





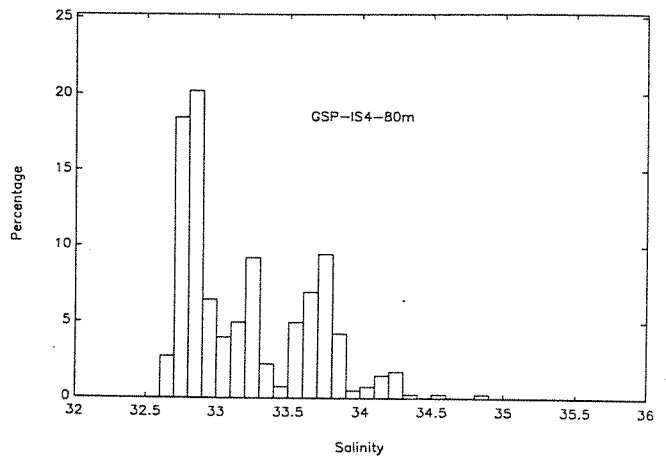
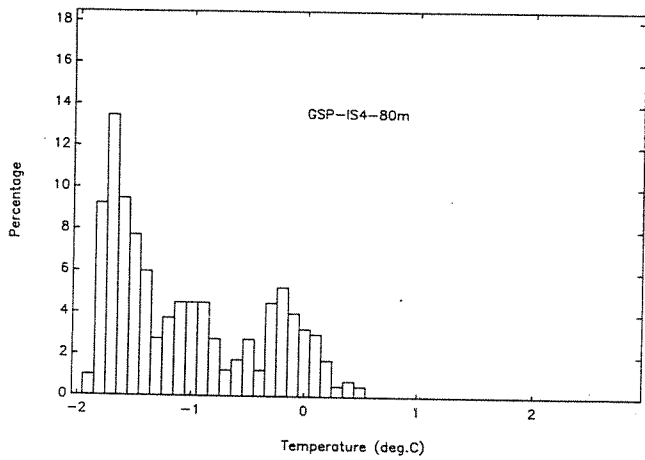
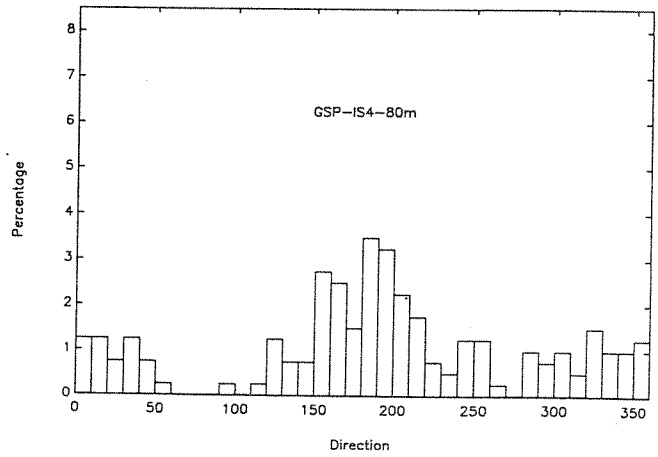
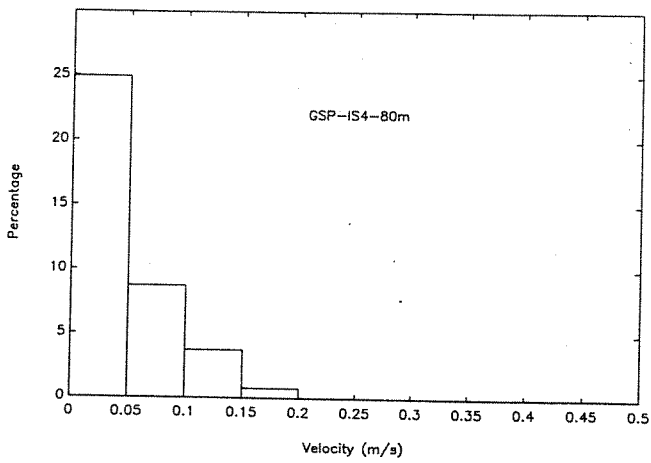
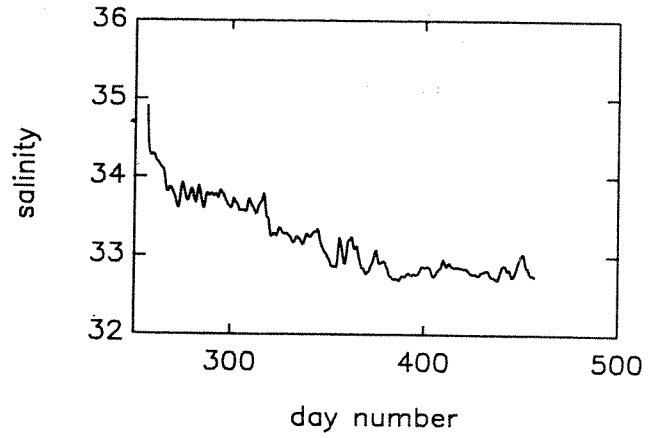
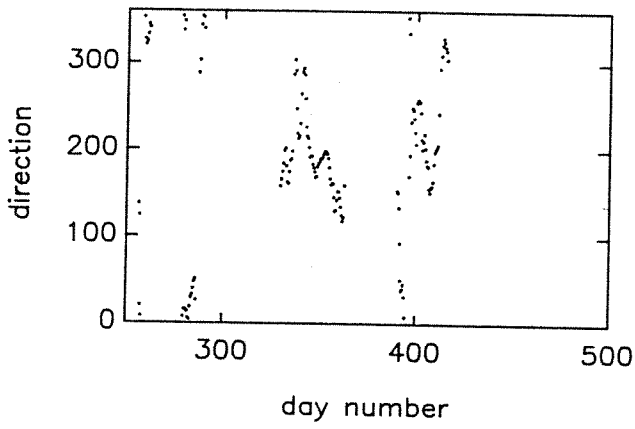
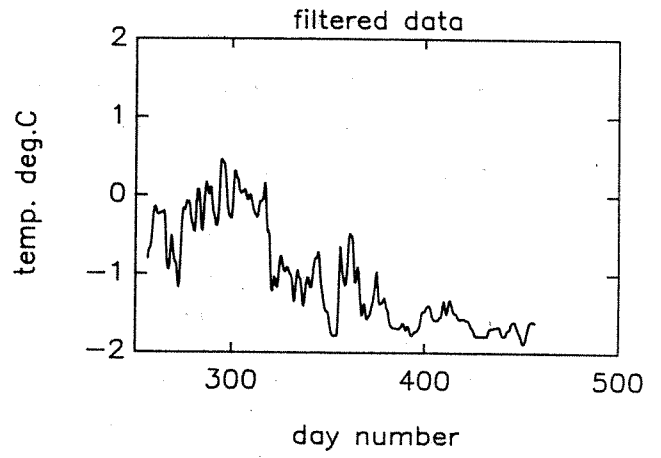
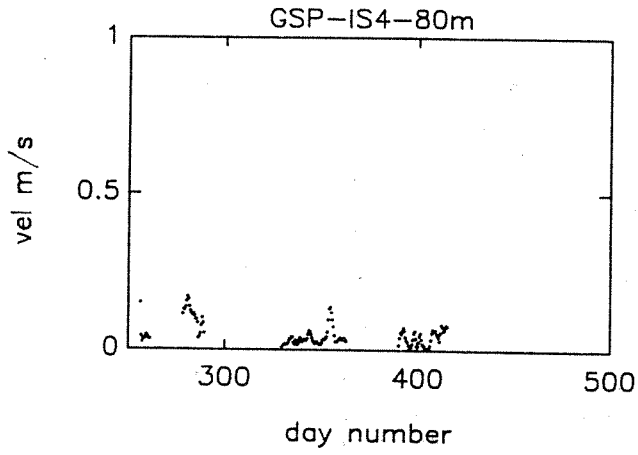


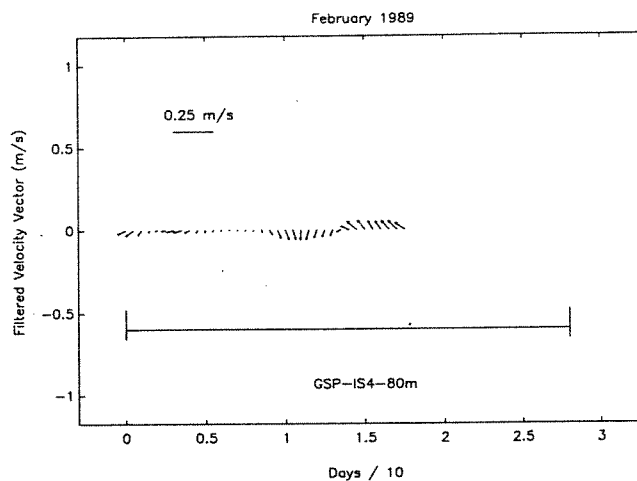
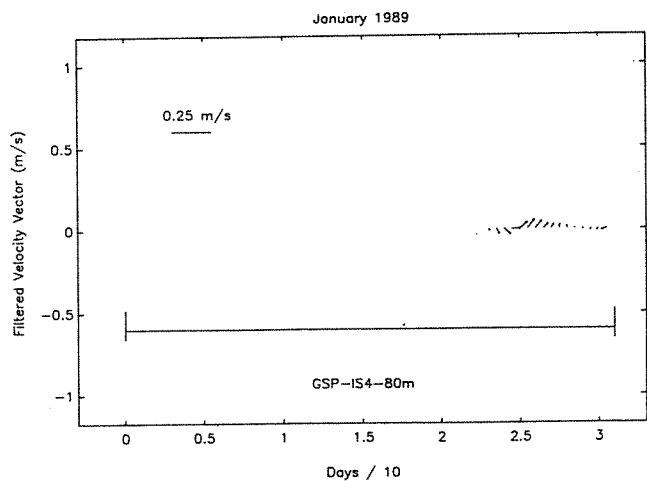
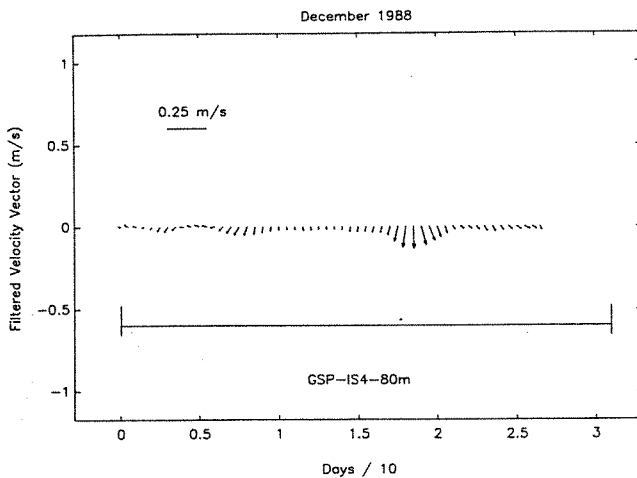
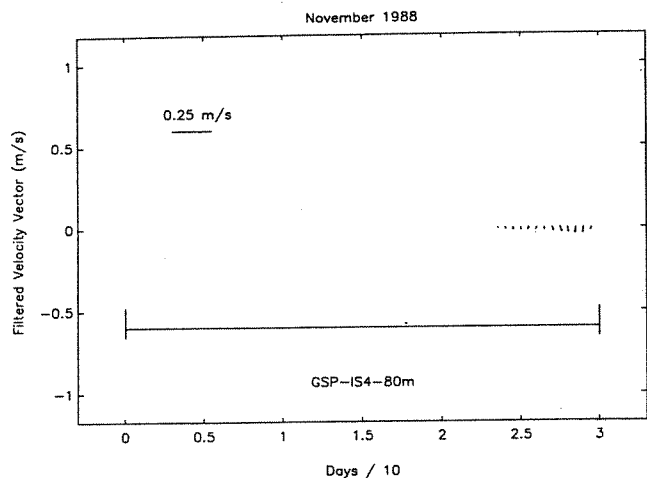
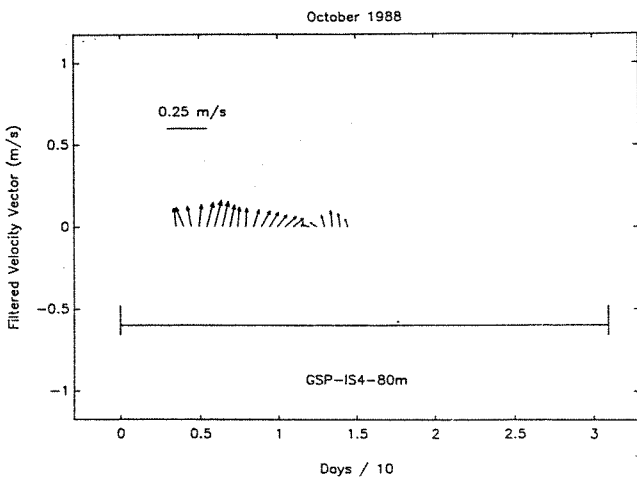
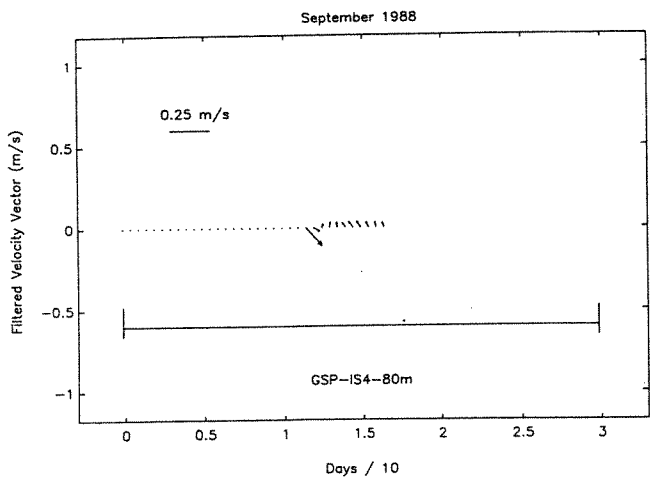


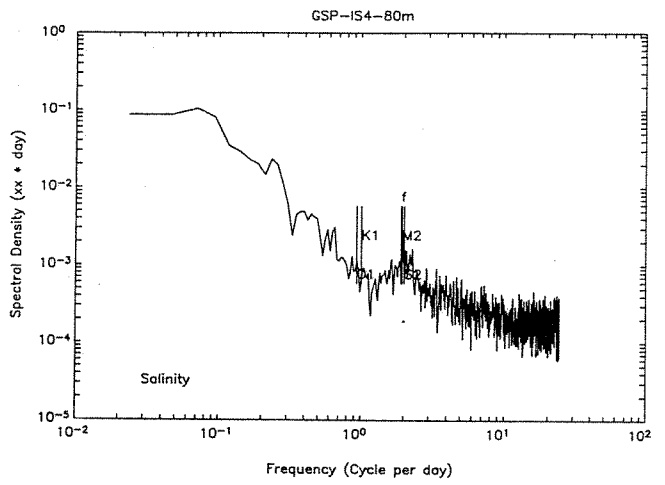
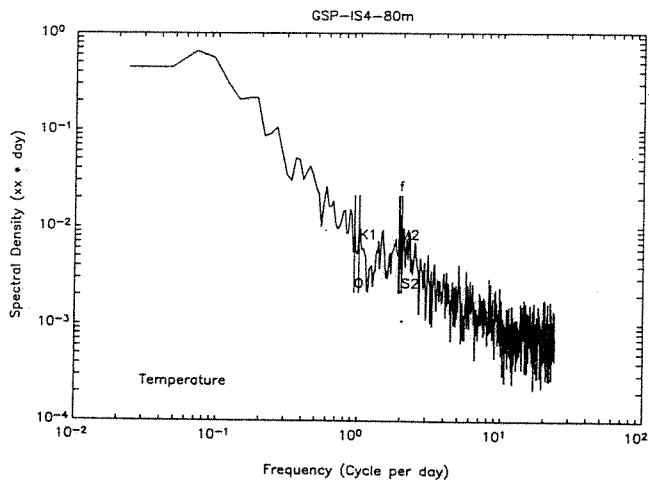
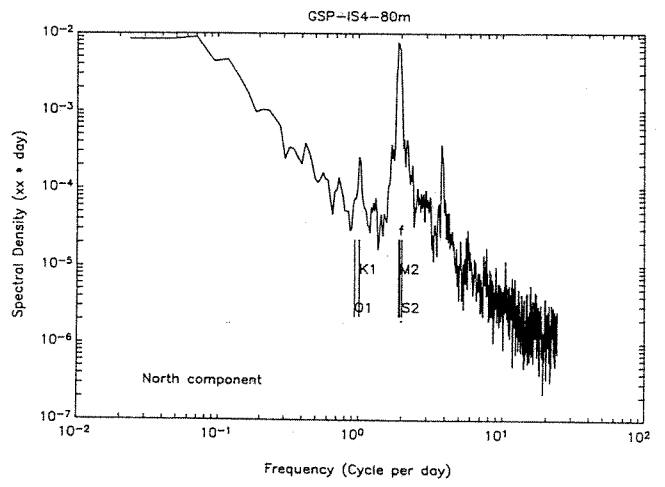
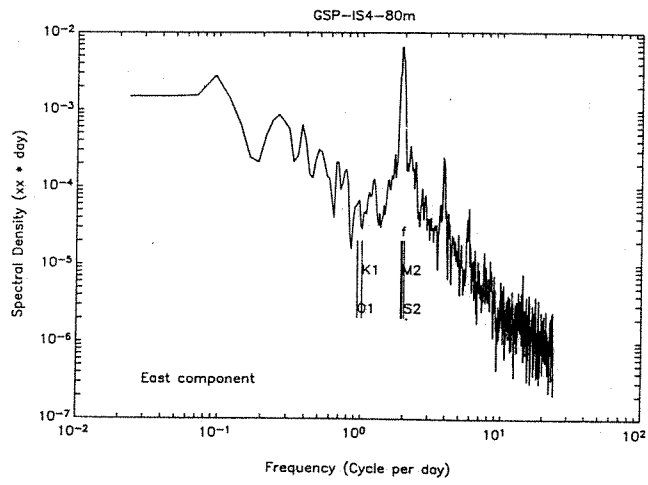
NBA085
IS4 - 80m

GSP-IS4-80m, 71°N section, 12/9/88-31/3/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st. dev.)
Total:	+0.001 (0.027)	+0.015 (0.055)	-1.05 (0.65)	33.19 (0.46)
Sep 88	-0.007 (0.019)	+0.026 (0.018)	-0.56 (0.32)	34.00 (0.29)
Oct 88	+0.014 (0.037)	+0.096 (0.042)	-0.06 (0.25)	33.72 (0.09)
Nov 88	+0.000 (0.006)	-0.023 (0.011)	-0.62 (0.49)	33.41 (0.19)
Dec 88	-0.003 (0.019)	-0.032 (0.032)	-1.16 (0.37)	33.09 (0.14)
Jan 89	+0.018 (0.022)	+0.028 (0.028)	-1.55 (0.20)	32.80 (0.10)
Feb 89	-0.019 (0.025)	-0.008 (0.036)	-1.52 (0.10)	32.83 (0.05)
Mar 89			-1.73 (0.08)	32.78 (0.19)



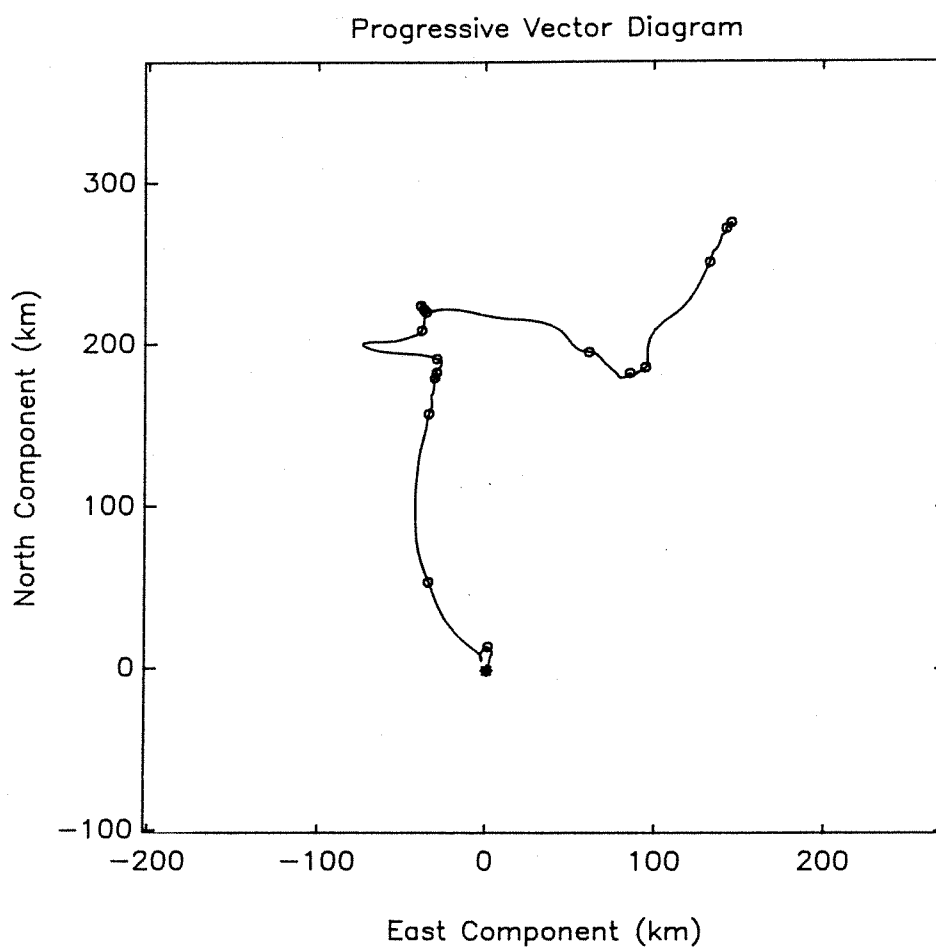


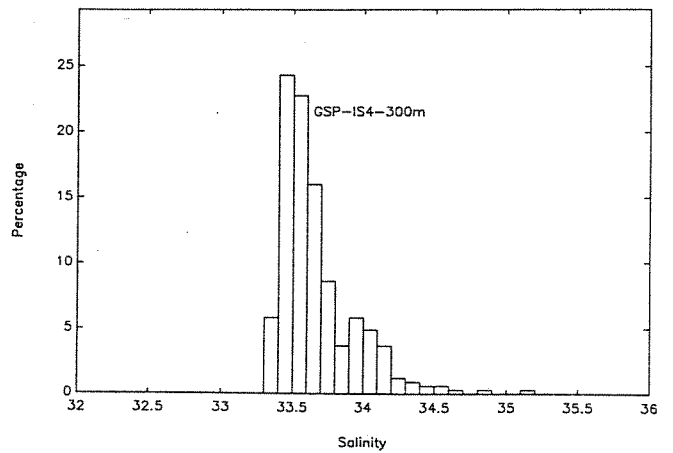
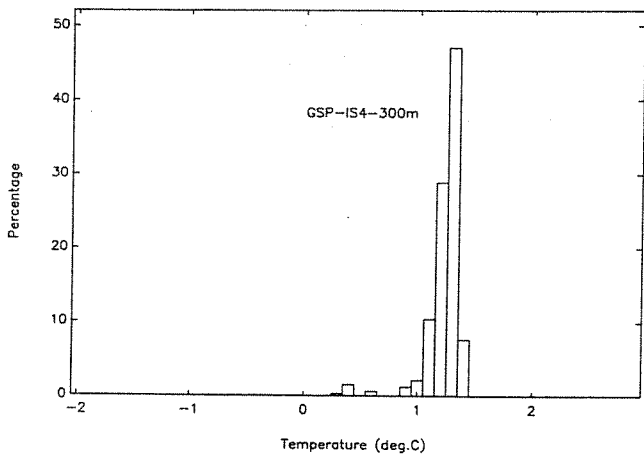
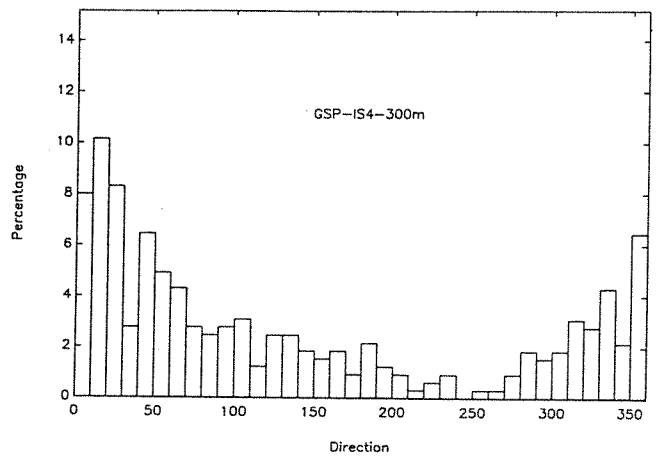
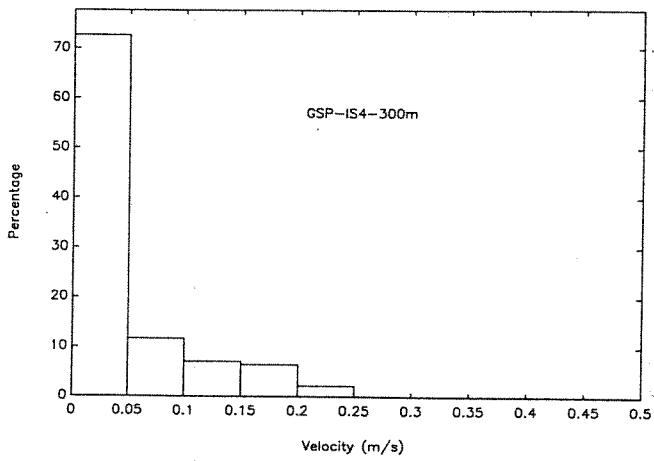
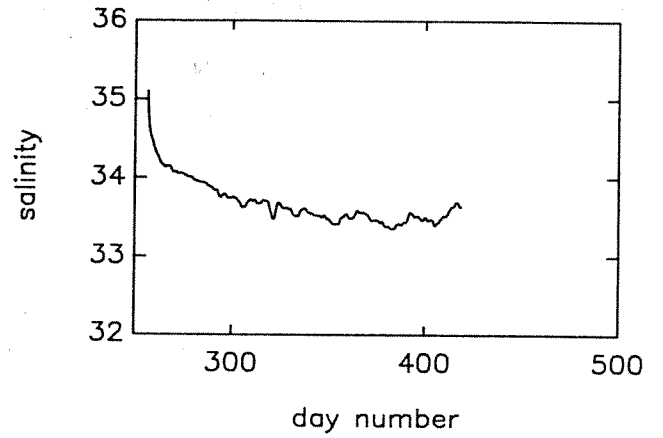
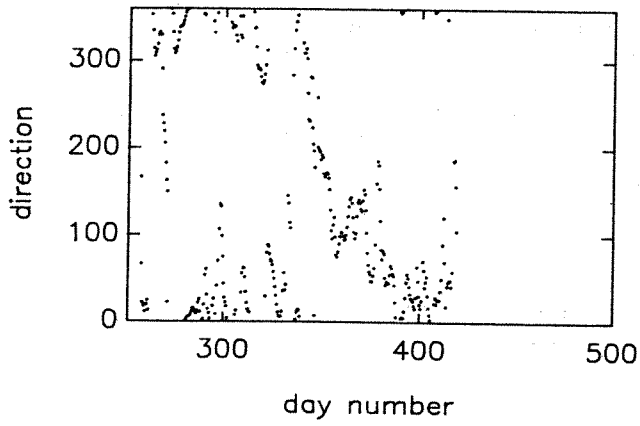
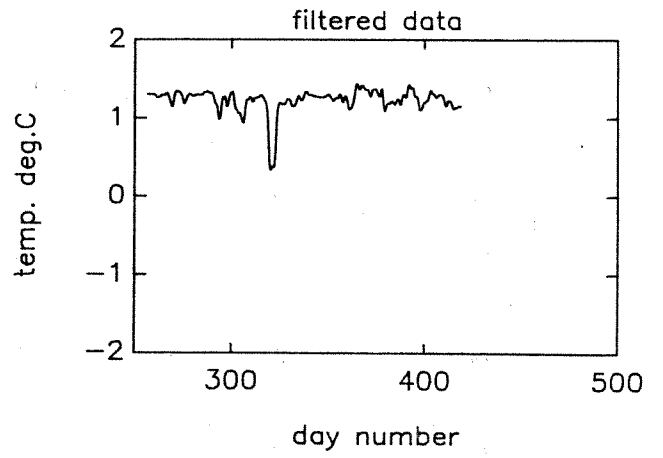
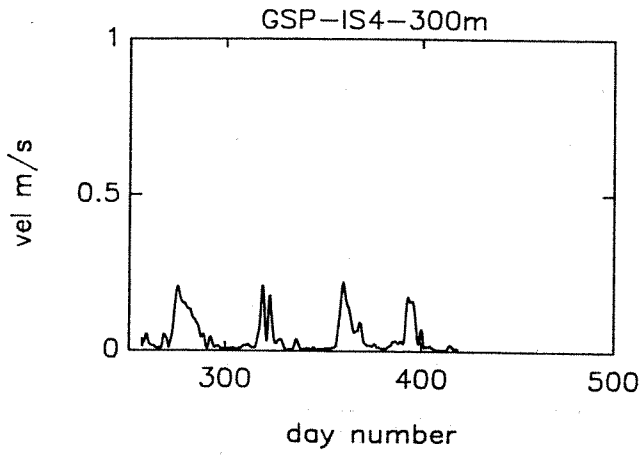


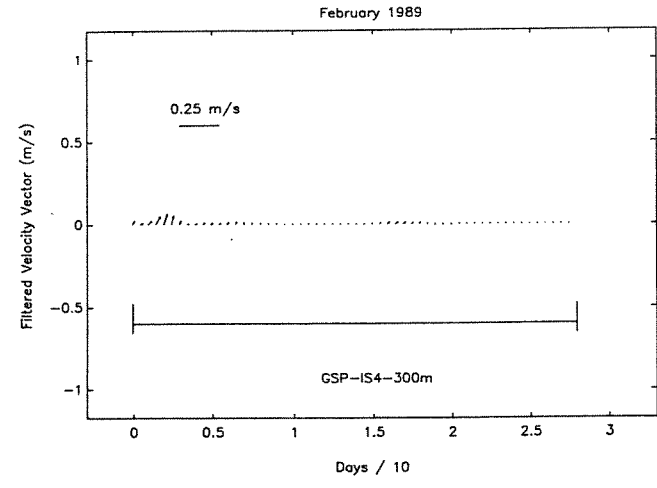
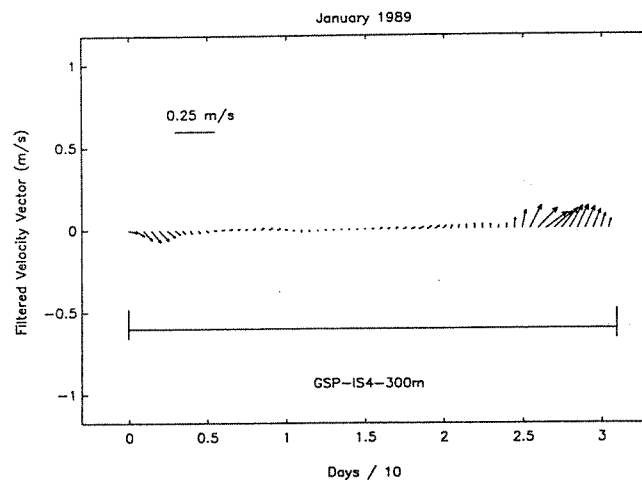
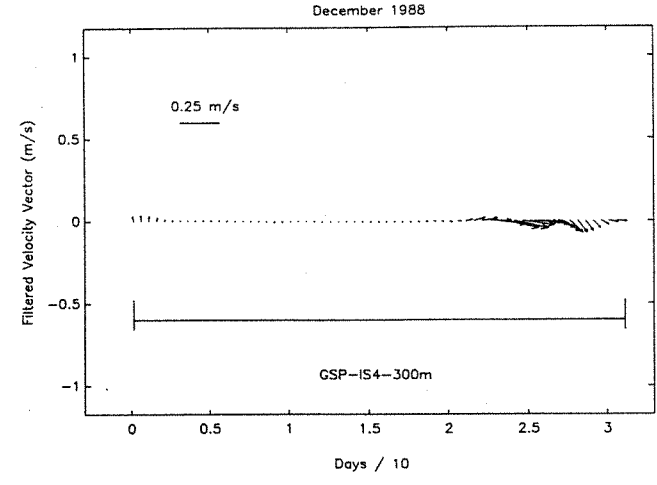
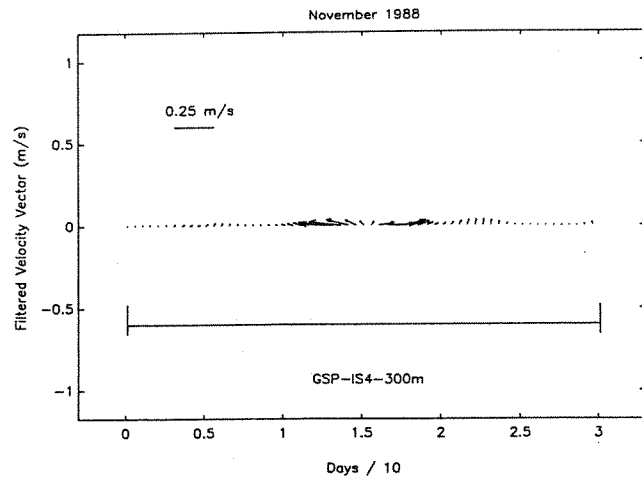
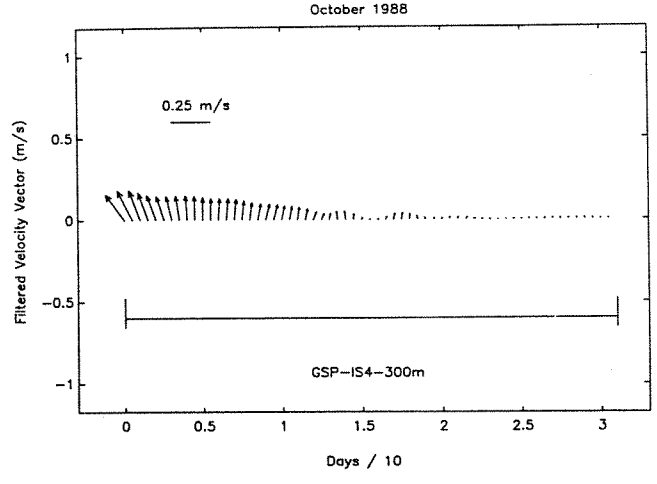
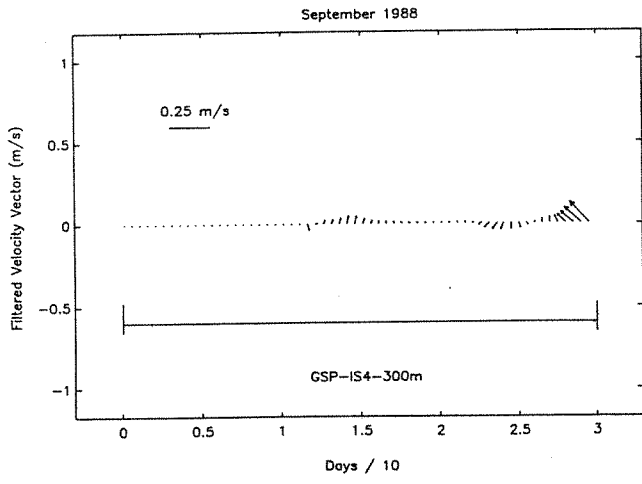
NBA078
IS4 - 300m

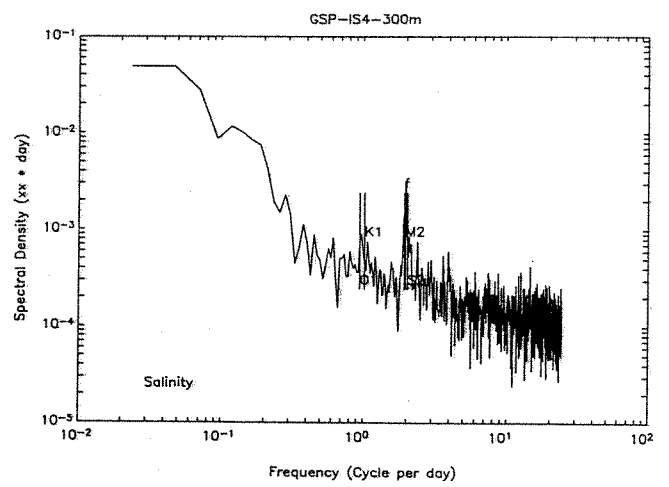
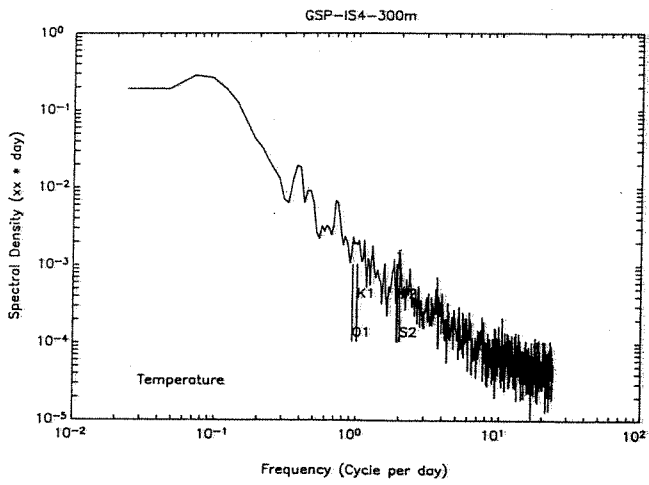
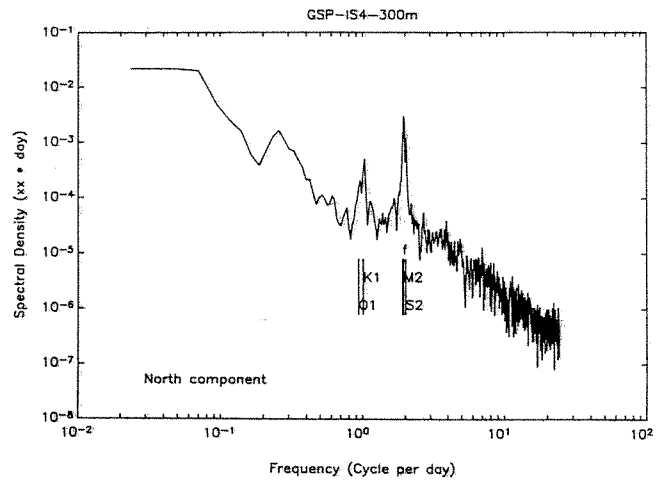
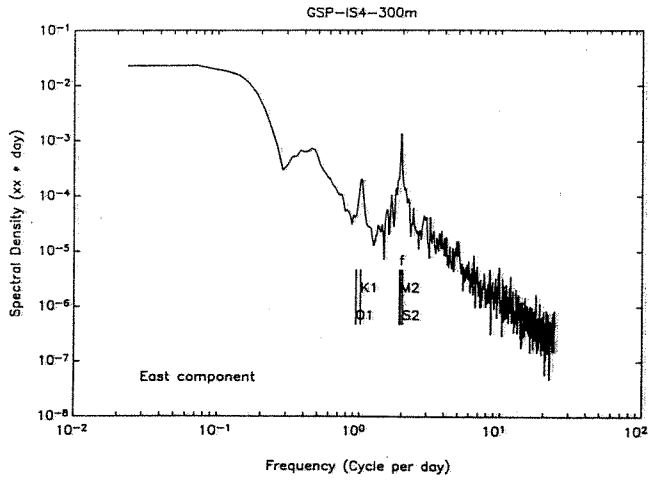
GSP-IS4-300m, 71°N section, 12/9/88-21/2/89. Means and deviations of filtered current, temperature and salinity.

Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)	Salinity psu mean (st.dev.)
Total:	+0.010 (0.048)	+0.020 (0.044)	+1.22 (0.15)	33.66 (0.27)
Sep 88	-0.014 (0.032)	+0.018 (0.036)	+1.28 (0.05)	34.22 (0.24)
Oct 88	-0.003 (0.027)	+0.058 (0.061)	+1.22 (0.11)	33.84 (0.12)
Nov 88	-0.003 (0.066)	+0.014 (0.010)	+1.09 (0.27)	33.62 (0.07)
Dec 88	+0.037 (0.063)	-0.009 (0.024)	+1.27 (0.07)	33.50 (0.06)
Jan 89	+0.027 (0.033)	+0.023 (0.051)	+1.27 (0.09)	32.45 (0.06)
Feb 89	+0.006 (0.007)	+0.009 (0.015)	+1.21 (0.07)	32.52 (0.09)





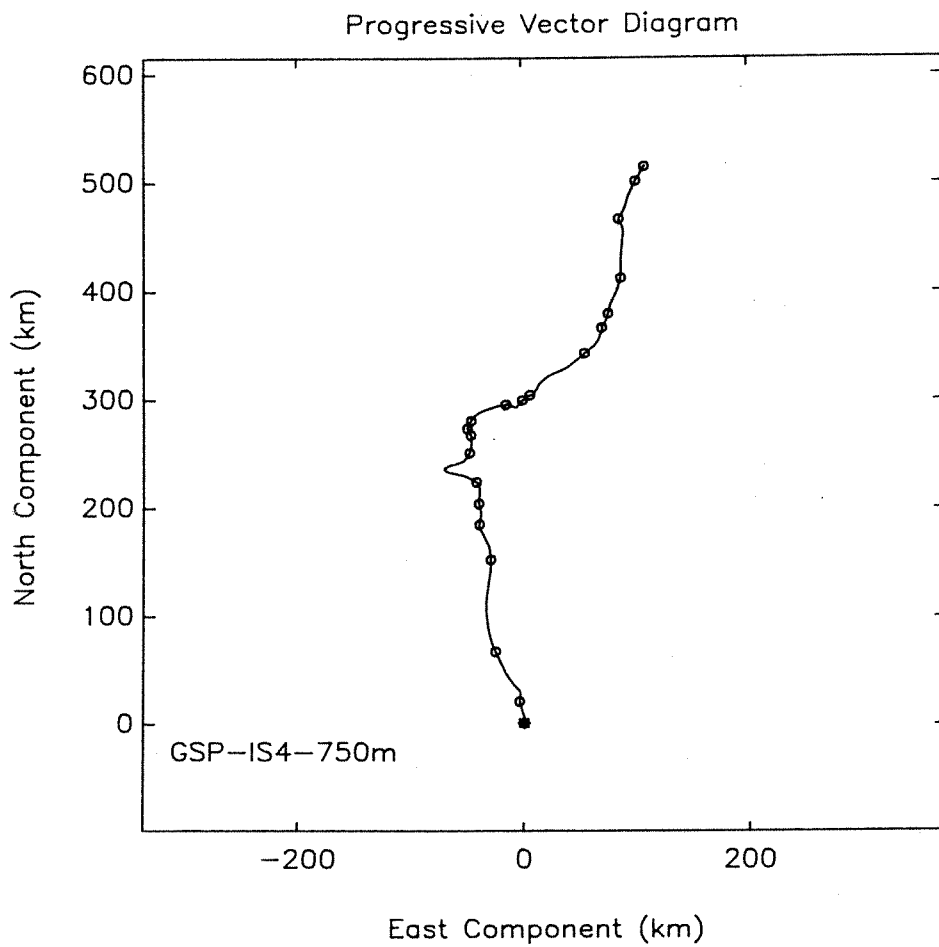


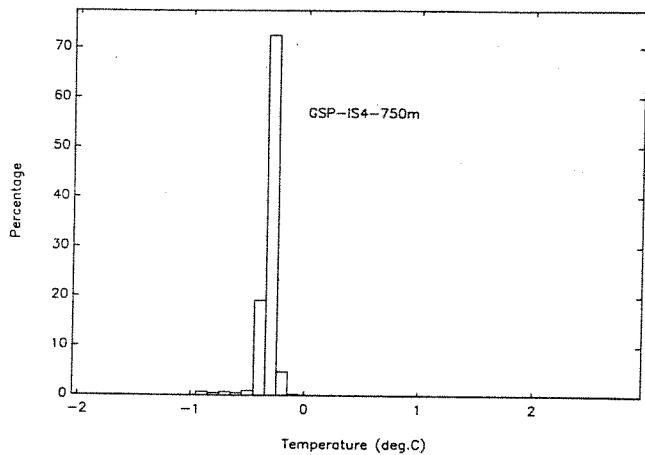
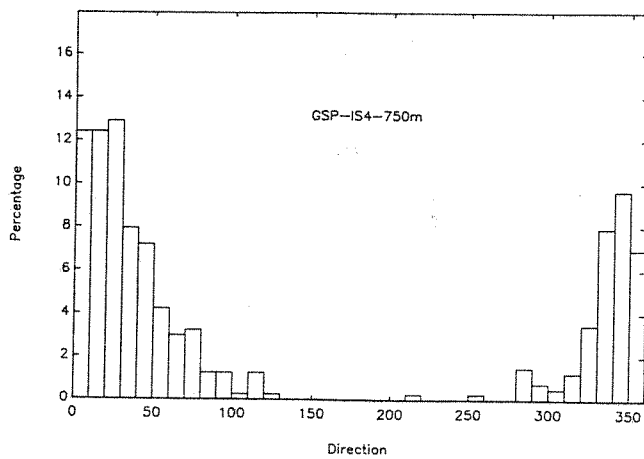
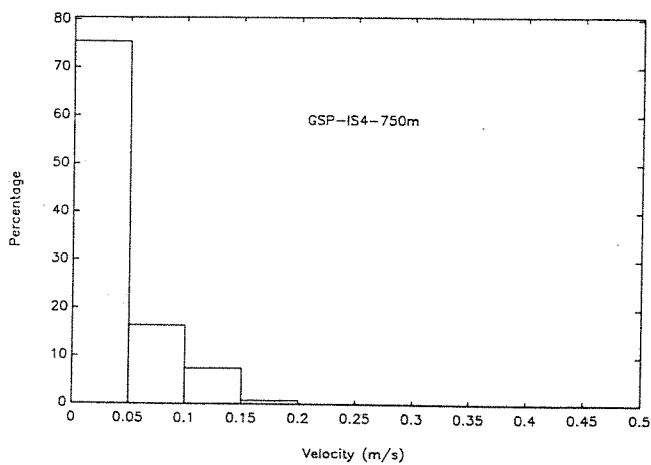
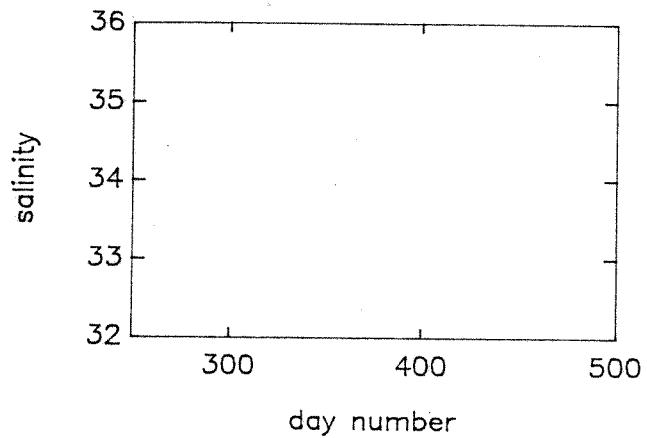
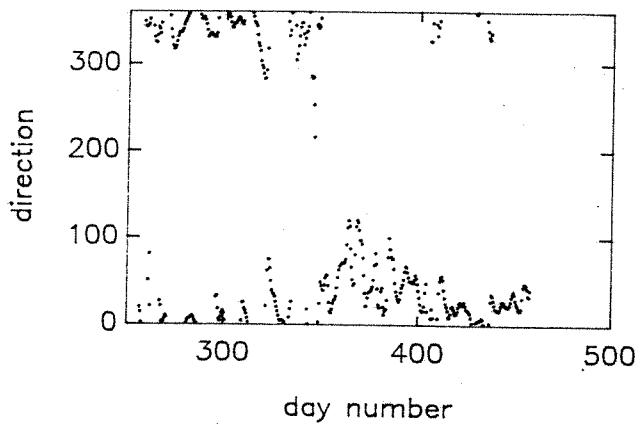
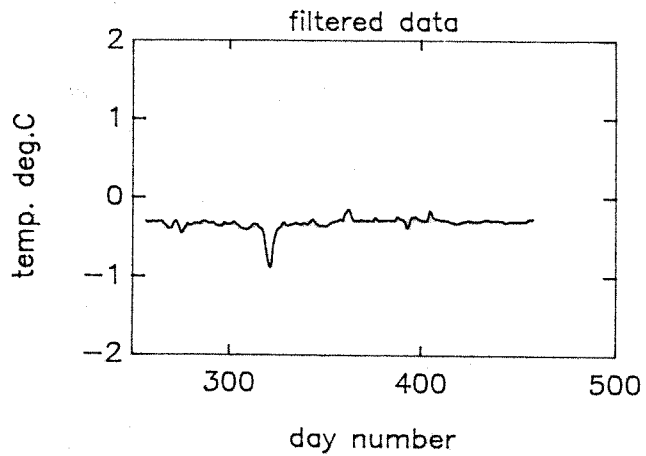
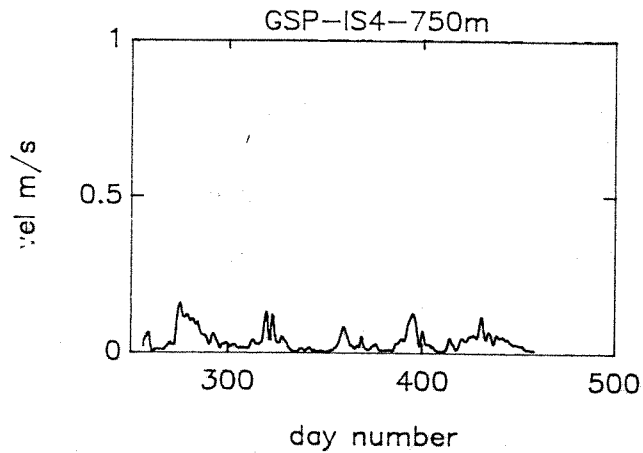


NBA109
IS4 - 750m

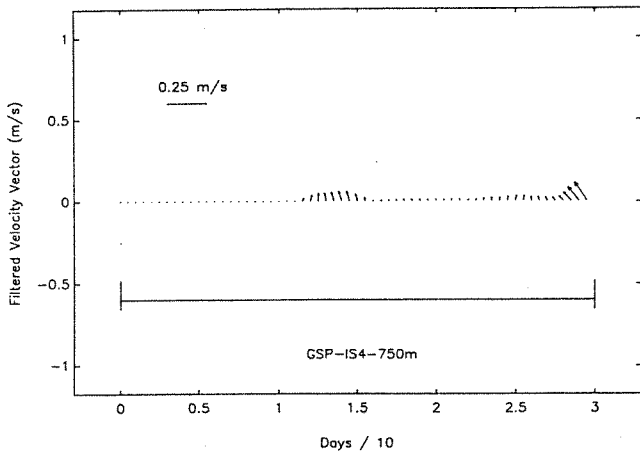
GSP-IS4-750m, 71°N section, 12/9/88-1/4/89. Means and deviations of filtered current, temperature.

Period (month)	U, east comp. m/s mean (st. dev.)		V, north comp. m/s mean (st. dev.)		Temperature °C mean (st. dev.)	
Total:	+0.006	(0.027)	+0.030	(0.028)	-0.33	(0.09)
Sep 88	-0.010	(0.019)	+0.029	(0.025)	-0.34	(0.04)
Oct 88	-0.009	(0.020)	+0.059	(0.040)	-0.34	(0.03)
Nov 88	-0.003	(0.042)	+0.024	(0.012)	-0.44	(0.15)
Dec 88	+0.012	(0.022)	+0.011	(0.012)	-0.30	(0.05)
Jan 89	+0.028	(0.030)	+0.019	(0.024)	-0.29	(0.03)
Feb 89	+0.011	(0.011)	+0.025	(0.016)	-0.29	(0.03)
Mar 89	+0.008	(0.011)	+0.040	(0.038)	-0.30	(0.01)
Apr 89	+0.006	(-)	+0.006	(-)	-0.27	(-)

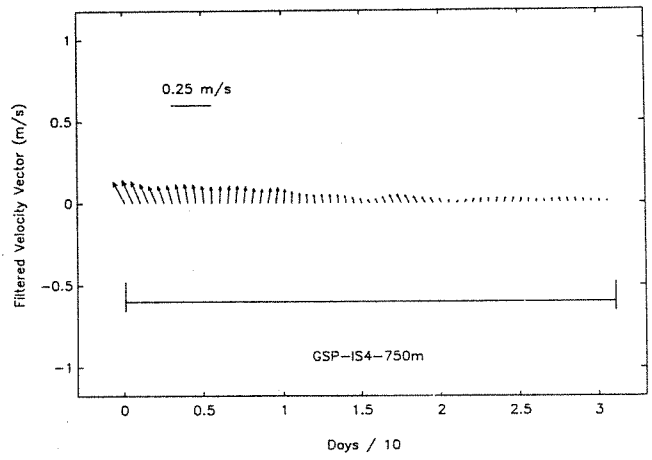




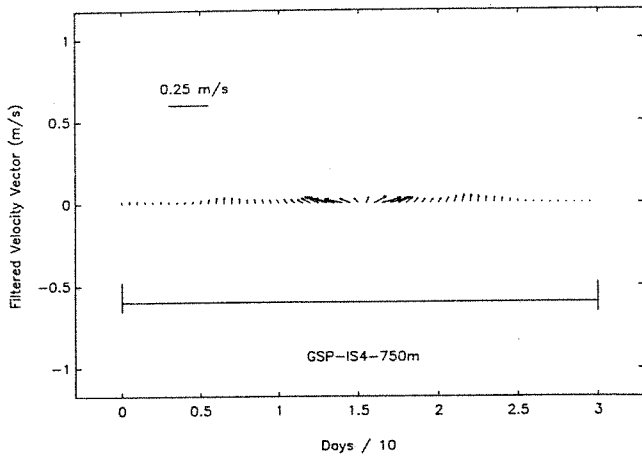
September 1988



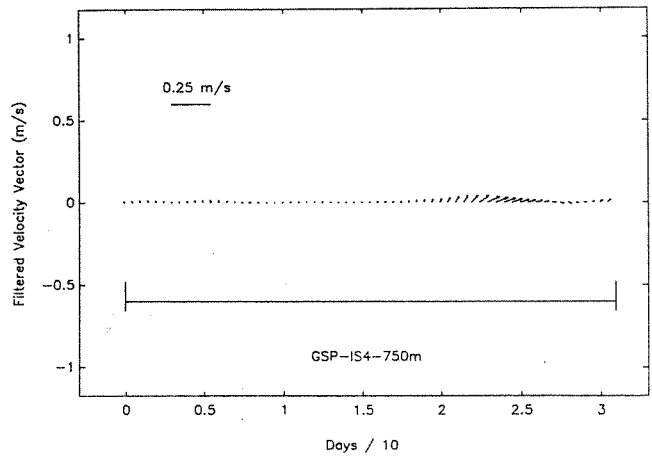
October 1988



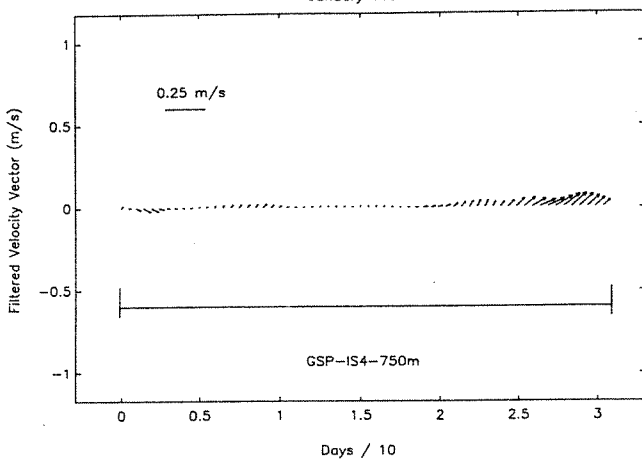
November 1988



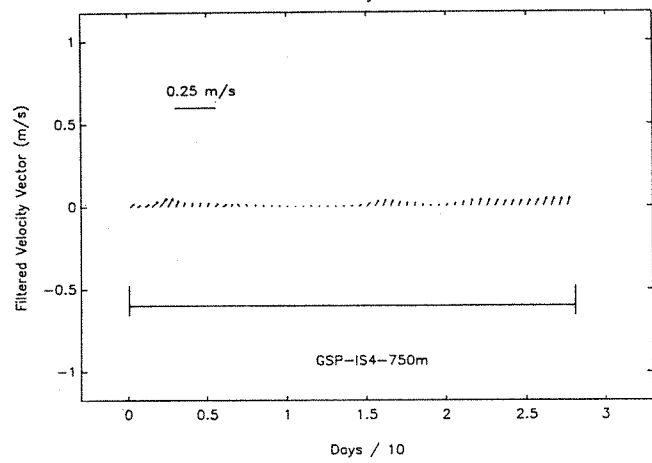
December 1988



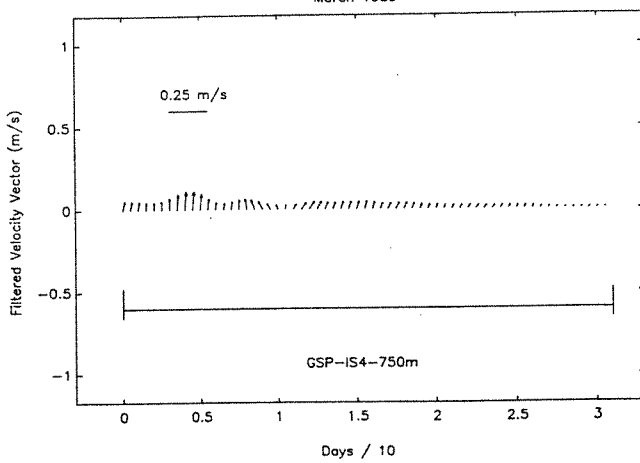
January 1989



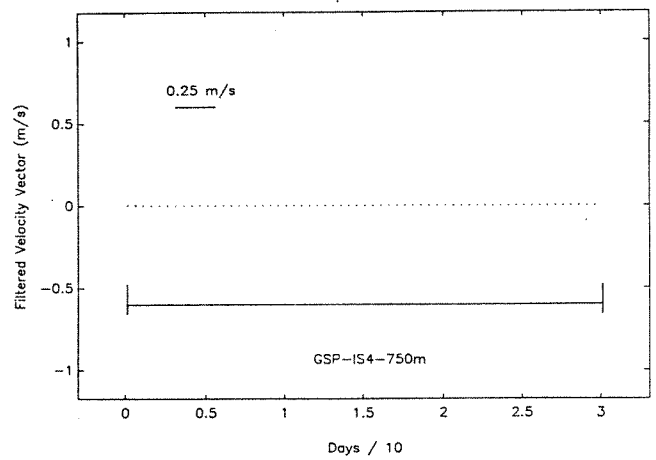
February 1989

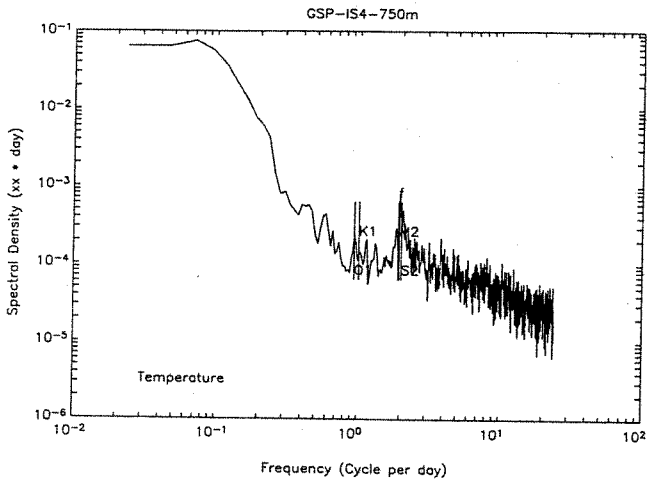
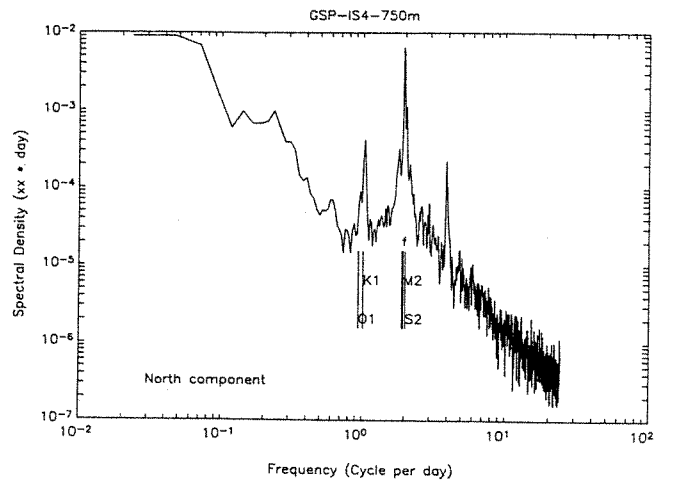
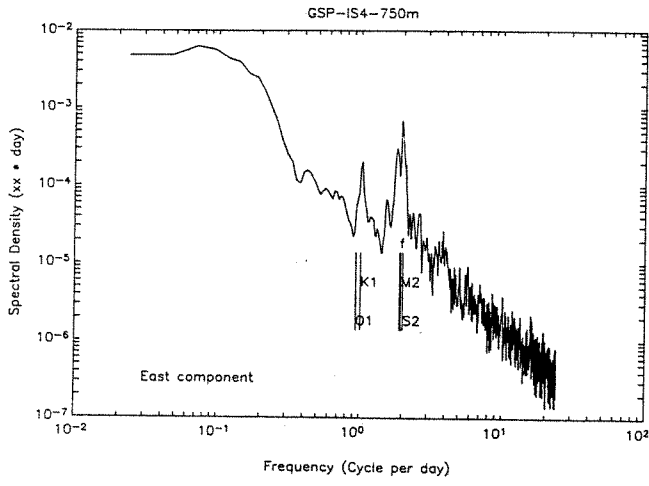


March 1989



April 1989

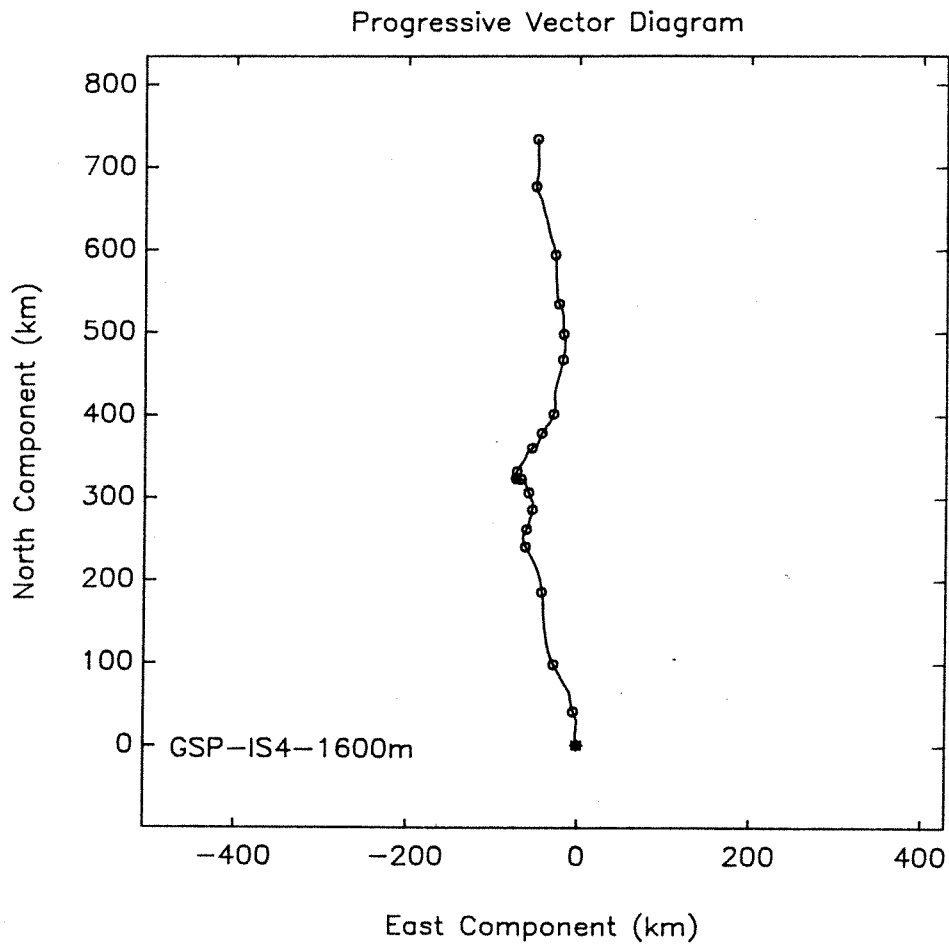


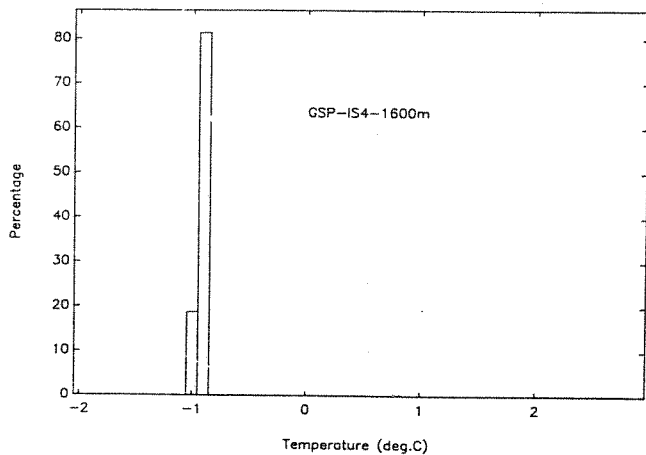
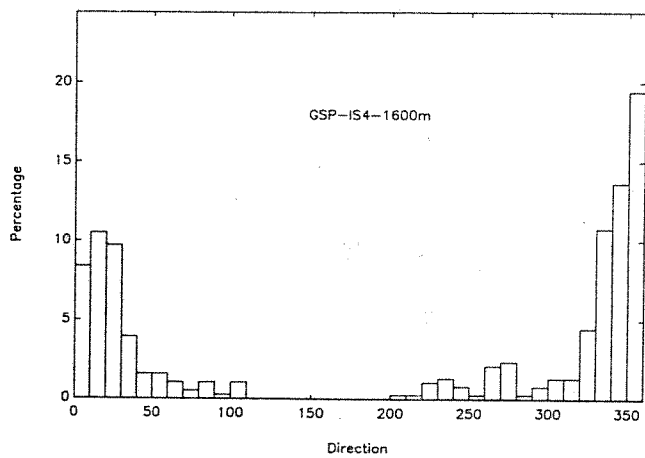
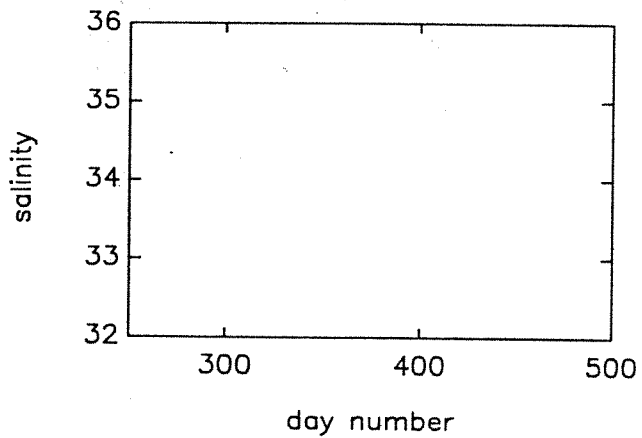
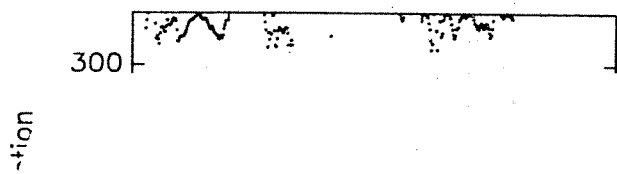
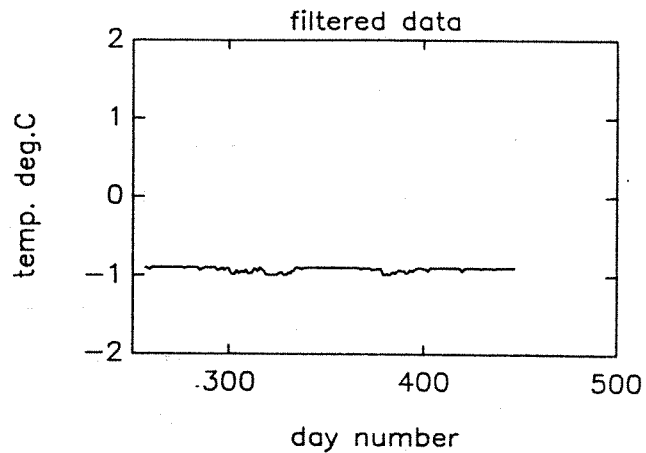
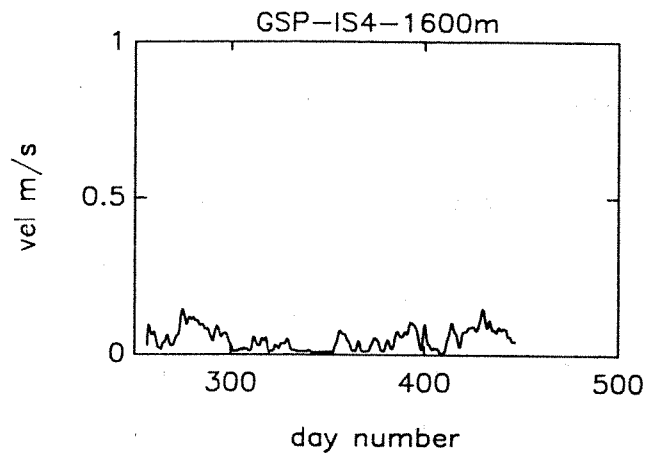


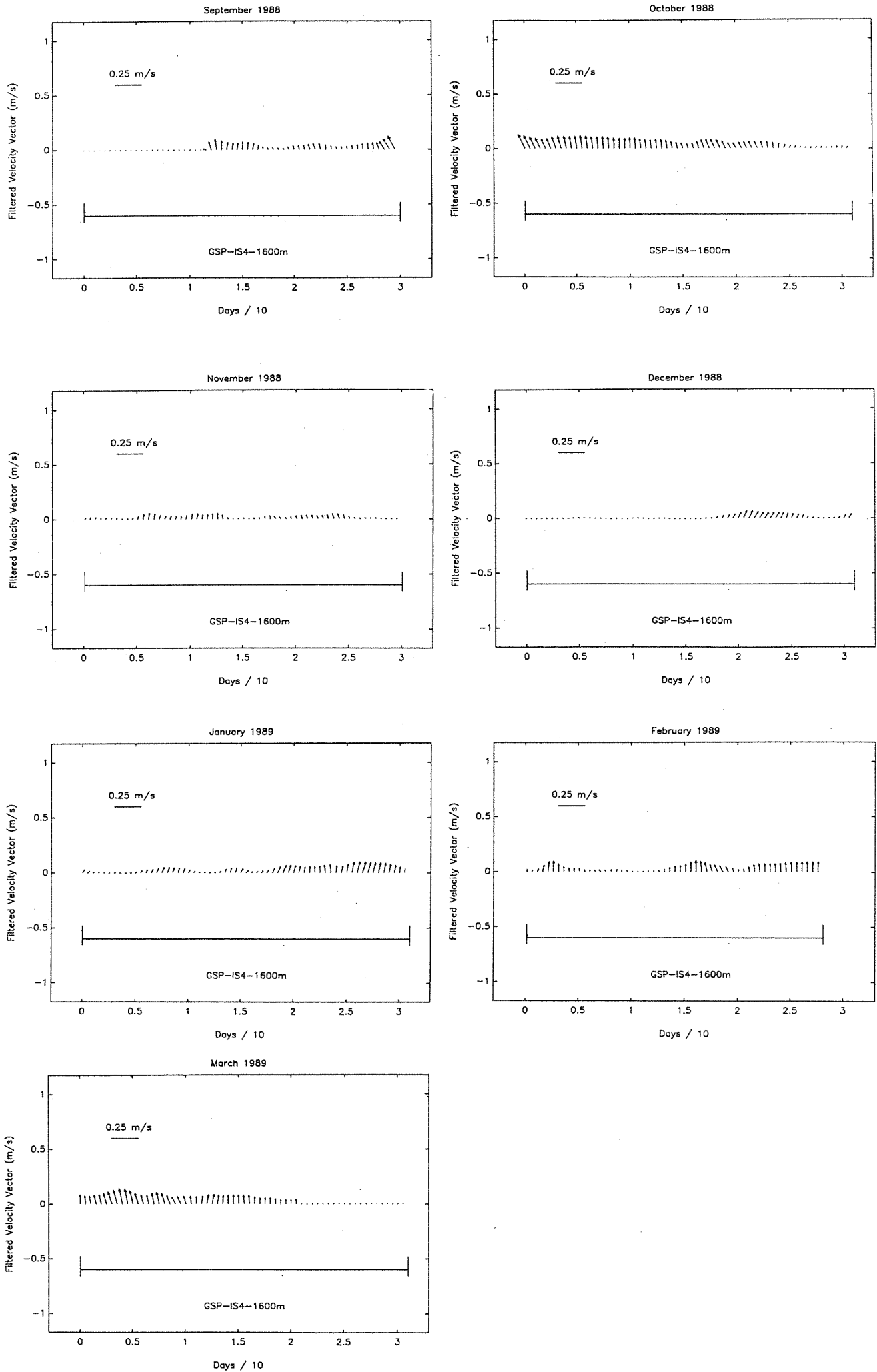
NBA072
IS4 - 1600m

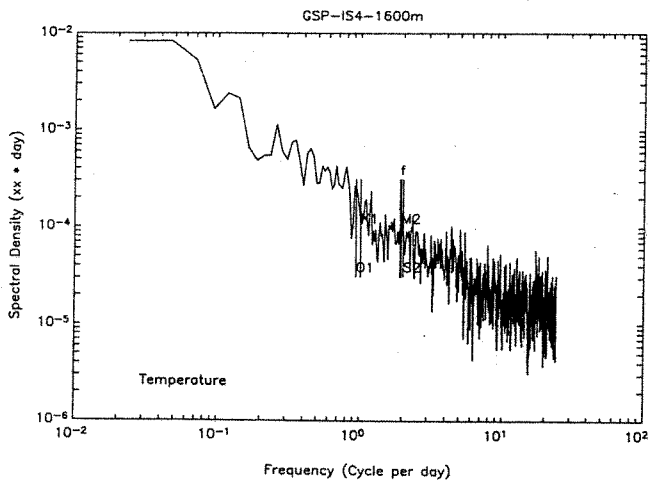
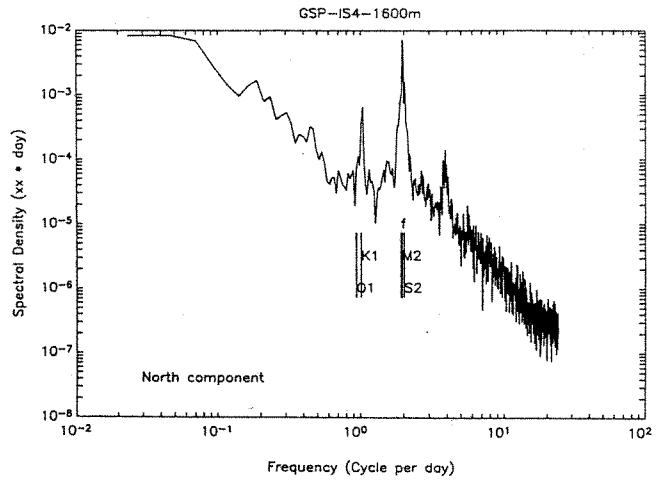
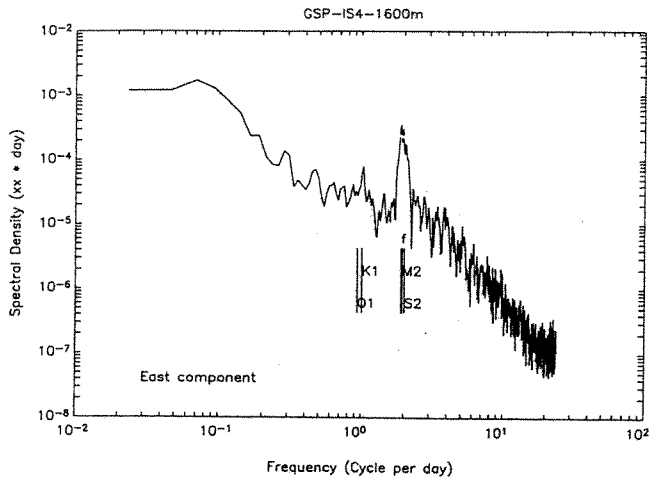
GSP-IS4-1600m, 71°N section, 12/9/88-21/3/89. Means and deviations of filtered current, temperature.

Period (month)	U, east comp. m/s mean (st. dev.)	V, north comp. m/s mean (st. dev.)	Temperature °C mean (st. dev.)
Total:	-0.003 (0.017)	+0.045 (0.035)	-0.92 (0.31)
Sep 88	-0.012 (0.017)	+0.052 (0.026)	-0.90 (0.01)
Oct 88	-0.016 (0.018)	+0.067 (0.036)	-0.92 (0.03)
Nov 88	-0.002 (0.008)	+0.024 (0.016)	-0.96 (0.03)
Dec 88	+0.005 (0.015)	+0.014 (0.022)	-0.90 (0.01)
Jan 89	+0.013 (0.008)	+0.041 (0.031)	-0.94 (0.03)
Feb 89	-0.004 (0.008)	+0.048 (0.032)	-0.91 (0.01)
Mar 89	-0.012 (0.016)	+0.081 (0.025)	-0.90 (0.01)







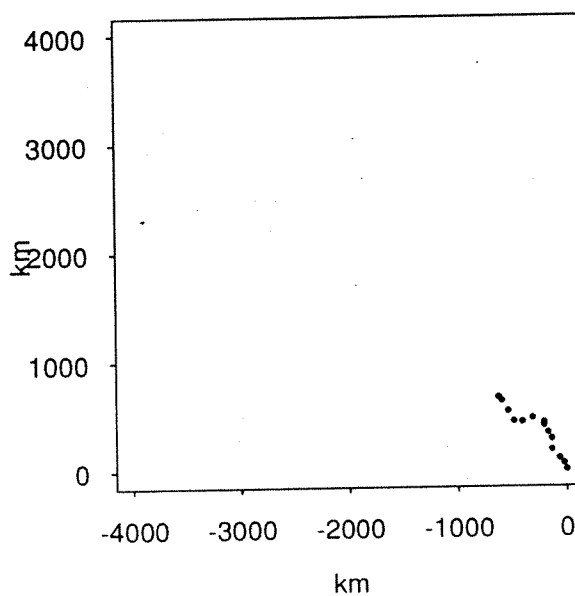


AA685201
IS5 - 117m

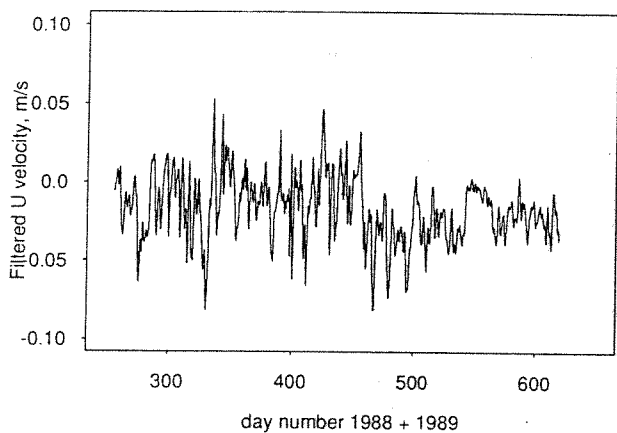
GSP-IS5-117m, 71°N section, 13/9/88-11/9/89. Means and deviations of filtered current, temperature and salinity

Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu mean (st.dev.)
Total:	-0.017 (0.020)	0.018 (0.028)	-0.60 (1.21)	34.22 (0.25)
Sep 88	-0.010 (0.011)	0.032 (0.011)	-0.27 (0.66)	34.30 (0.08)
Oct 88	-0.014 (0.022)	0.016 (0.019)	1.85 (0.36)	34.66 (0.07)
Nov 88	-0.023 (0.024)	0.024 (0.028)	0.61 (0.46)	34.48 (0.10)
Dec 88	-0.001 (0.020)	0.033 (0.021)	-0.65 (0.72)	34.19 (0.23)
Jan 89	-0.012 (0.014)	0.019 (0.020)	-1.75 (0.09)	33.91 (0.04)
Feb 89	-0.011 (0.024)	0.023 (0.025)	-1.80 (0.07)	34.00 (0.03)
Mar 89	-0.000 (0.018)	0.009 (0.020)	-1.88 (0.02)	34.01 (0.02)
Apr 89	-0.035 (0.020)	0.014 (0.052)	-1.69 (0.21)	34.01 (0.06)
May 89	-0.031 (0.017)	-0.012 (0.021)	-1.67 (0.23)	34.01 (0.04)
Jun 89	-0.026 (0.013)	0.002 (0.017)	-0.13 (0.32)	34.42 (0.09)
Jul 89	-0.016 (0.012)	0.031 (0.021)	-0.23 (0.57)	34.36 (0.17)
Agu 89	-0.020 (0.008)	0.030 (0.015)	0.13 (0.37)	34.28 (0.18)
Sep 89	-0.024 (0.010)	0.027 (0.009)	0.32 (0.23)	34.35 (0.04)

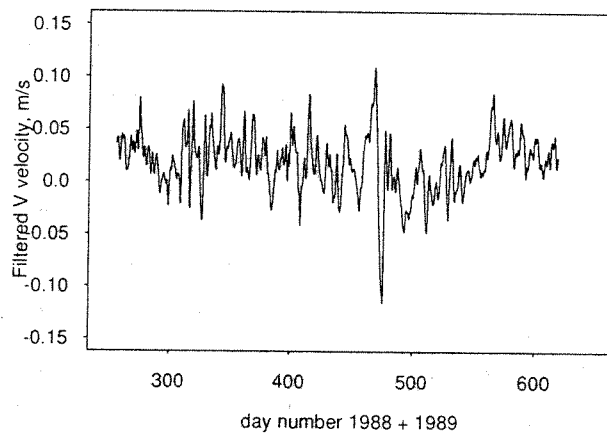
Prog.Vector GSP-IS5-117m



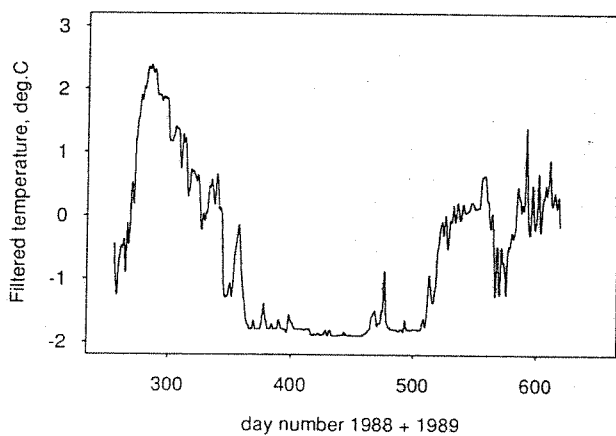
GSP-IS5-117m



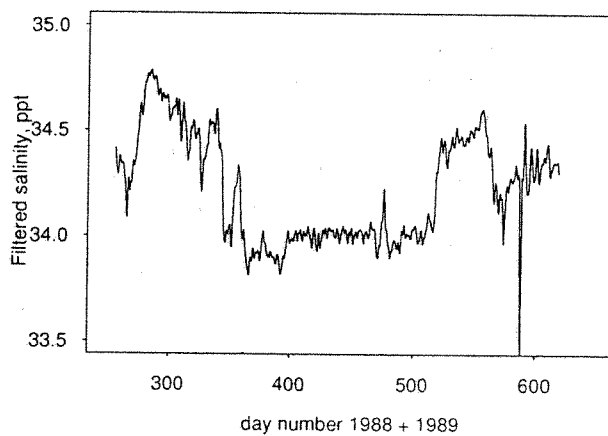
GSP-IS5-117m



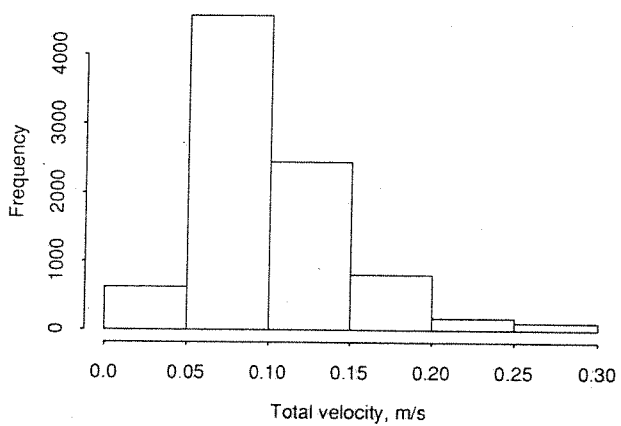
GSP-IS5-117m



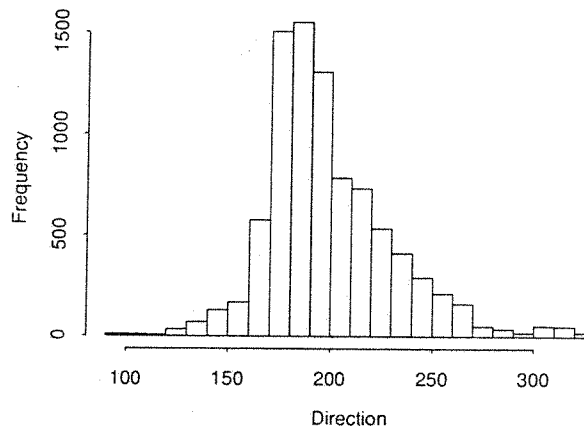
GSP-IS5-117m



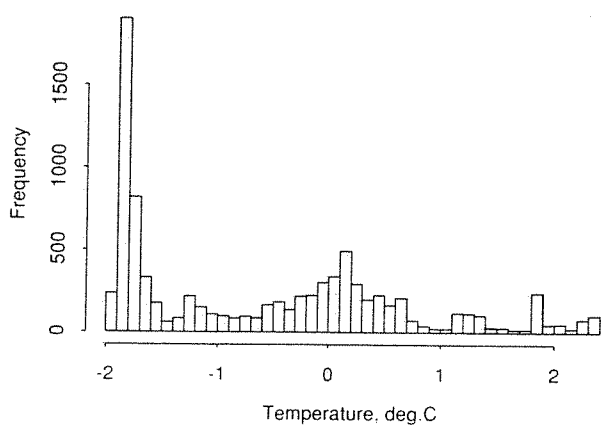
GSP-IS5-117m



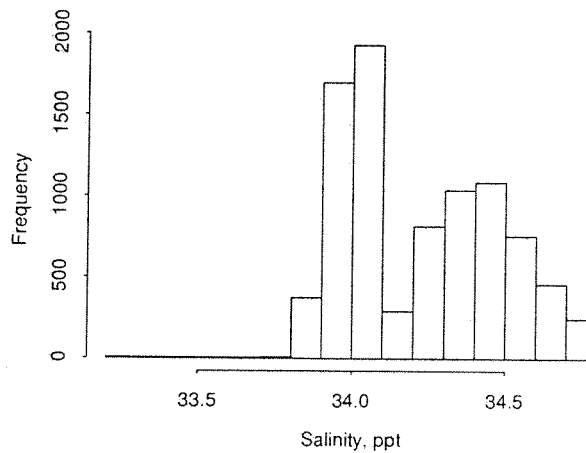
GSP-IS5-117m



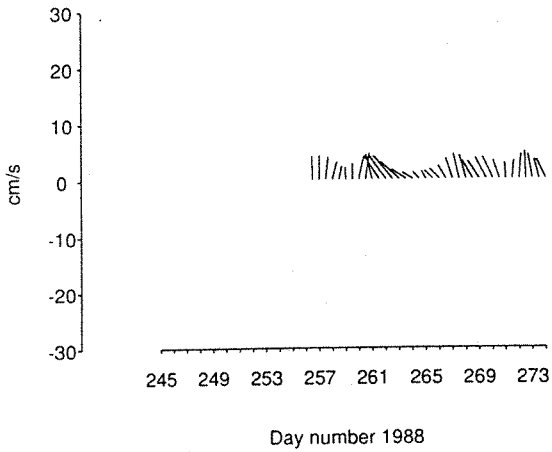
GSP-IS5-117m



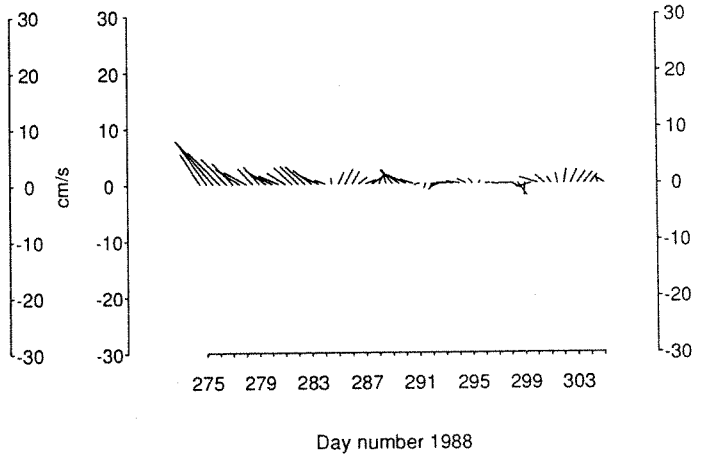
GSP-IS5-117m



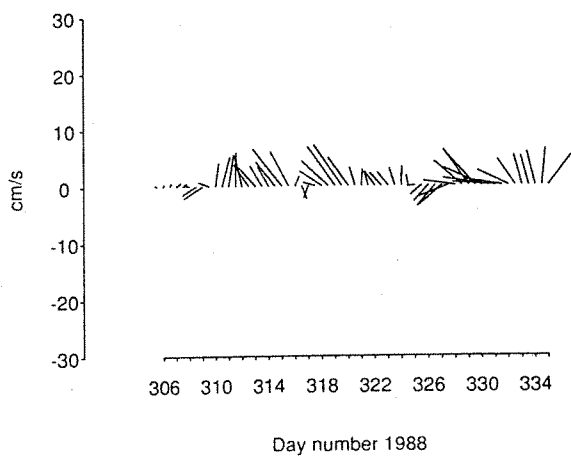
GSP-IS5-117m , SEPTEMBER 1988



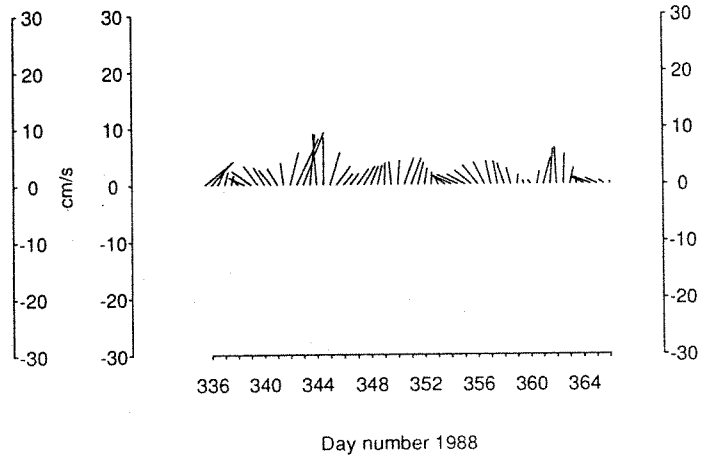
GSP-IS5-117m , OCTOBER 1988



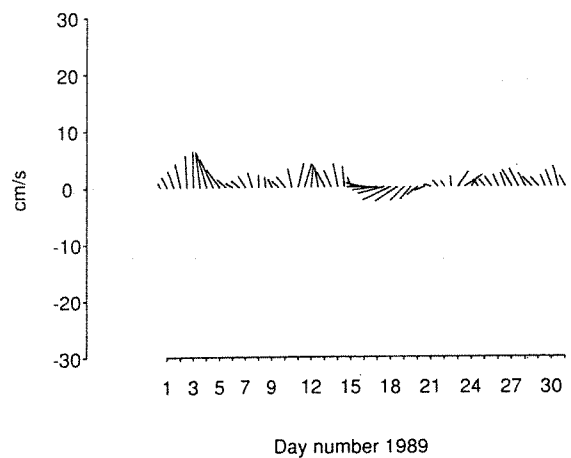
GSP-IS5-117m , NOVEMBER 1988



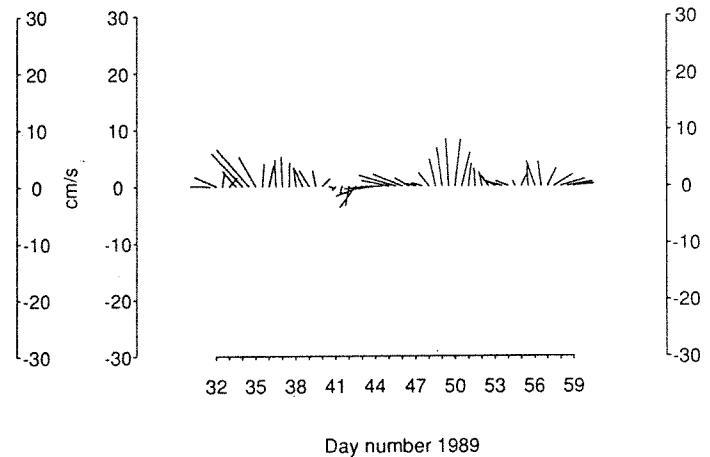
GSP-IS5-117m , DECEMBER 1988



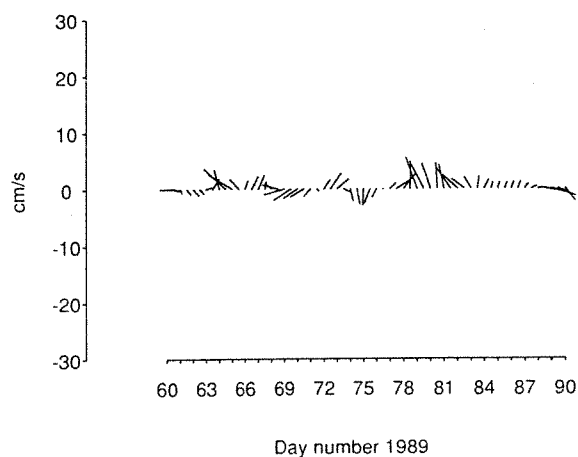
GSP-IS5-117m , JANUARY 1989



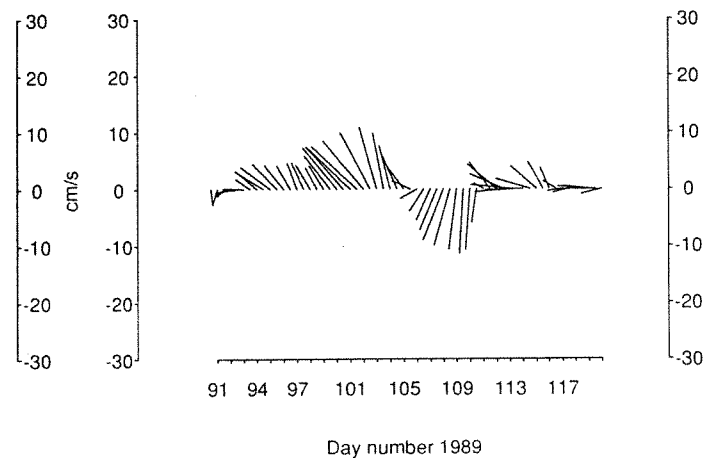
GSP-IS5-117m , FEBRUARY 1989



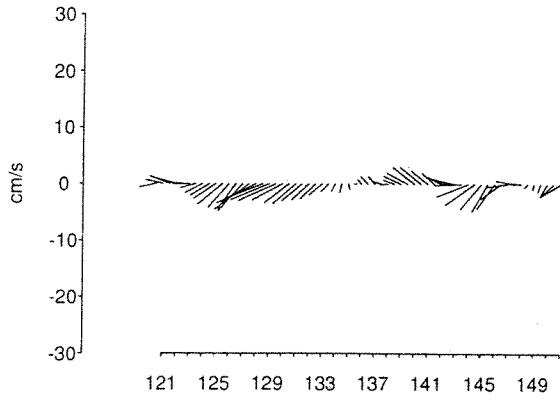
GSP-IS5-117m , MARCH 1989



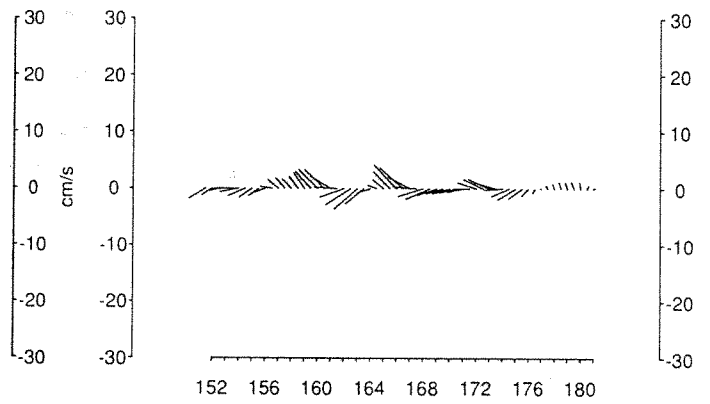
GSP-IS5-117m , APRIL 1989



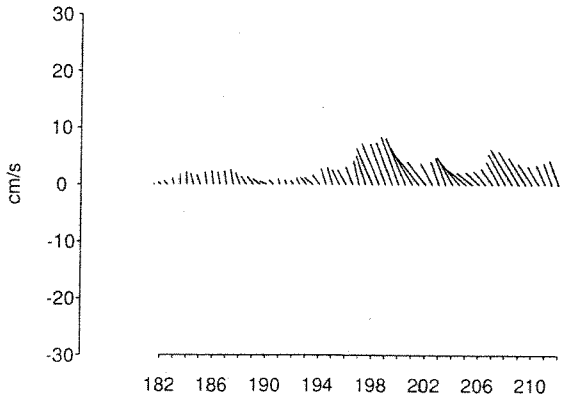
GSP-IS5-117m , MAY 1989



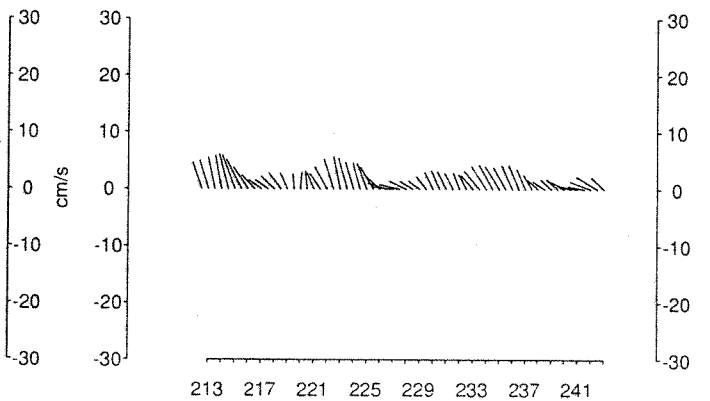
GSP-IS5-117m , JUNE 1989



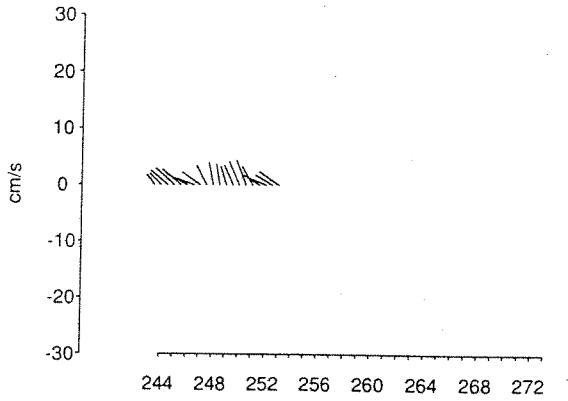
GSP-IS5-117m , JULY 1989



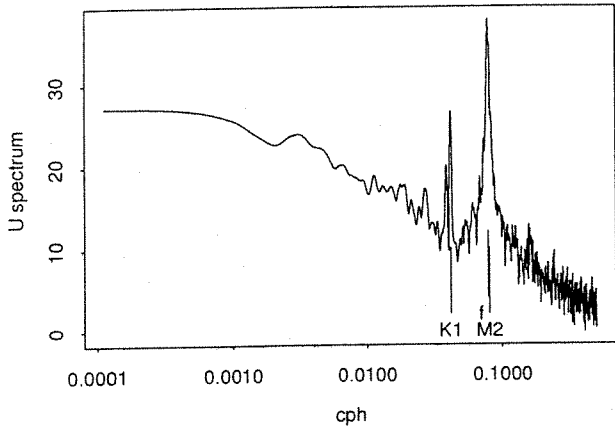
GSP-IS5-117m , AUGUST 1989



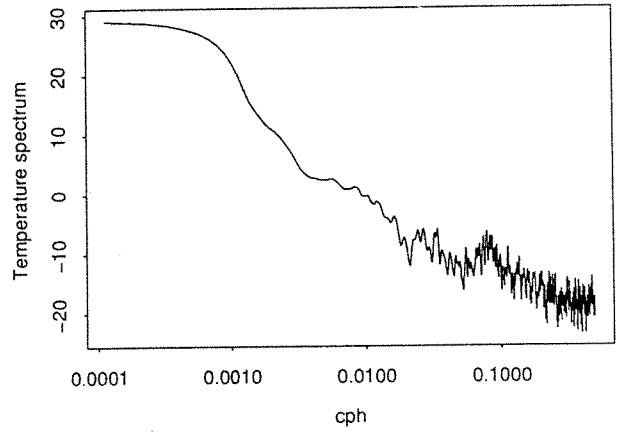
GSP-IS5-117m , SEPTEMBER 1989



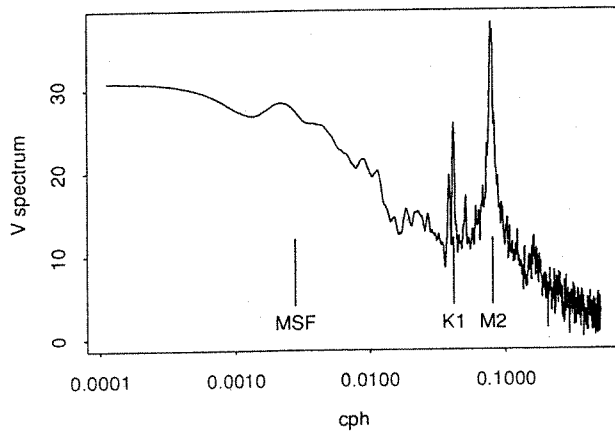
GSP-IS5-117m



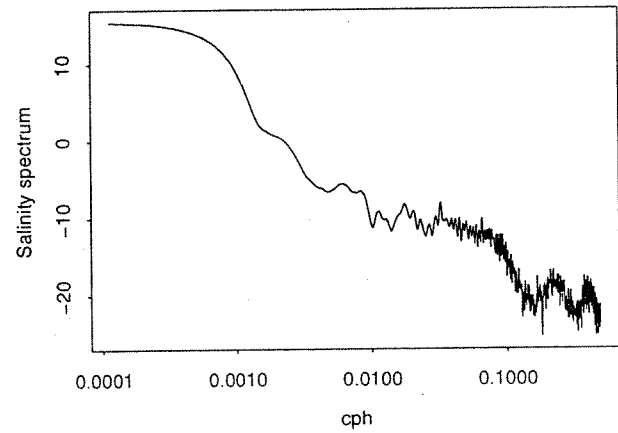
GSP-IS5-117m



GSP-IS5-117m



GSP-IS5-117m

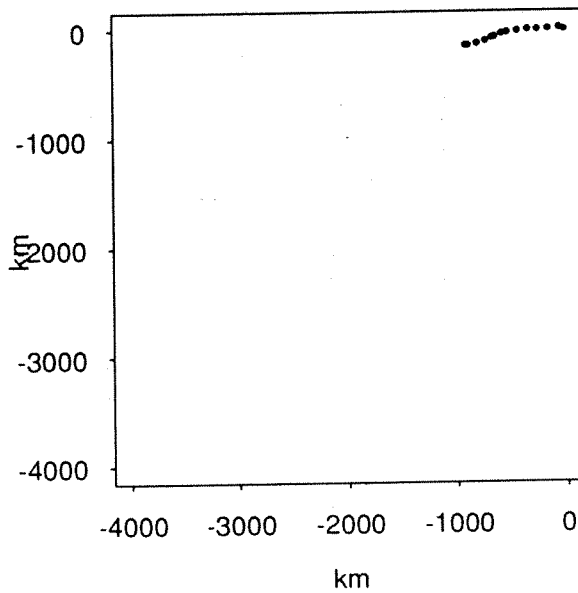


AA133401
IS5 - 537m

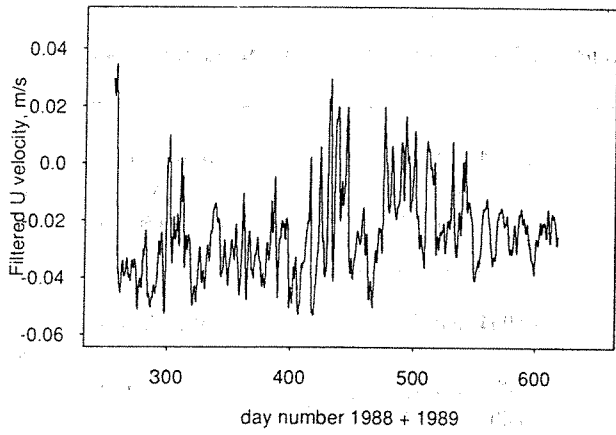
GSP-IS5-537m, 71°N section, 13/9/88-11/9/89. Means and deviations of filtered current and temperature.

Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)
Total:	-0.025 (0.015)	-0.004 (0.007)	0.17 (0.06)
Sep 88	-0.026 (0.025)	0.006 (0.009)	0.22 (0.02)
Oct 88	-0.034 (0.015)	-0.003 (0.009)	0.21 (0.02)
Nov 88	-0.031 (0.011)	-0.002 (0.007)	0.22 (0.02)
Dec 88	-0.030 (0.009)	-0.001 (0.005)	0.27 (0.05)
Jan 89	-0.030 (0.009)	-0.003 (0.007)	0.22 (0.02)
Feb 89	-0.034 (0.015)	-0.003 (0.007)	0.18 (0.03)
Mar 89	-0.015 (0.021)	-0.004 (0.008)	0.18 (0.02)
Apr 89	-0.022 (0.016)	-0.009 (0.005)	0.14 (0.02)
May 89	-0.008 (0.013)	-0.004 (0.003)	0.17 (0.02)
Jun 89	-0.019 (0.010)	-0.009 (0.005)	0.10 (0.01)
Jul 89	-0.025 (0.008)	-0.007 (0.004)	0.10 (0.01)
Agu 89	-0.026 (0.005)	-0.005 (0.003)	0.11 (0.01)
Sep 89	-0.022 (0.004)	-0.003 (0.004)	0.11 (0.02)

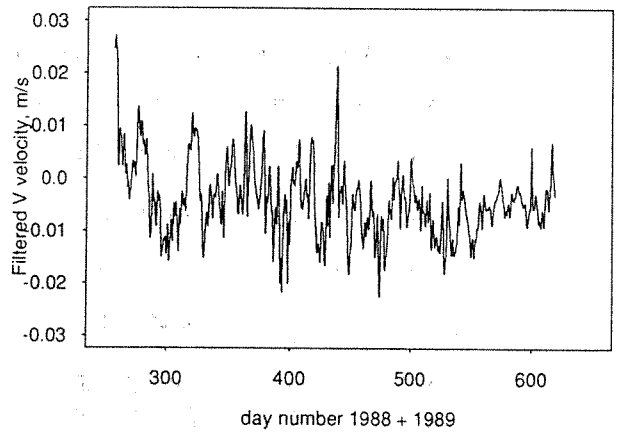
Prog.Vector GSP-IS5-537m



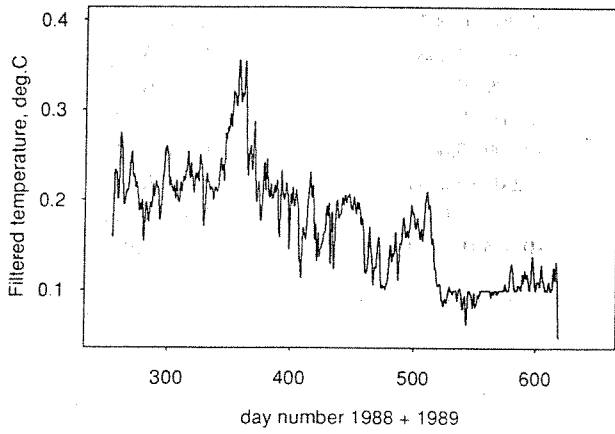
GSP-ISS-537m



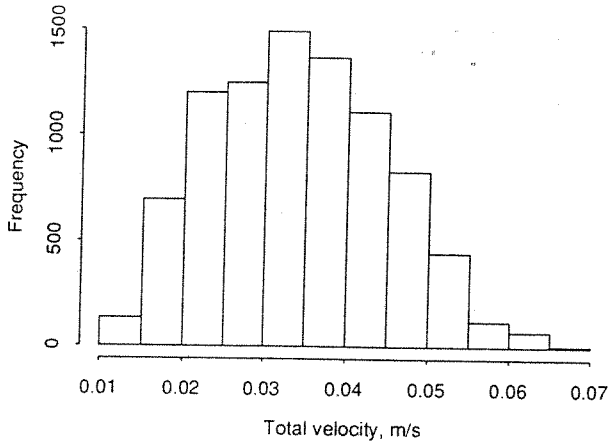
GSP-ISS-537m



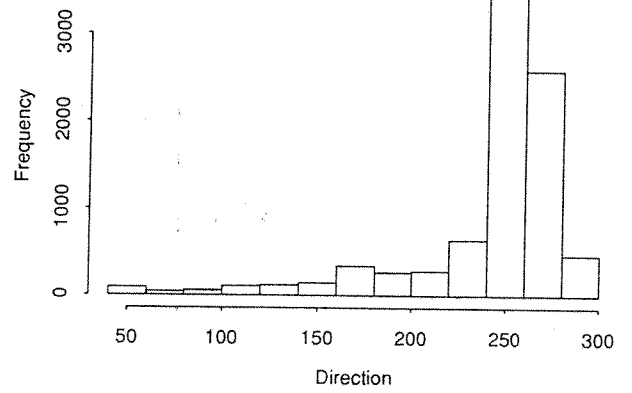
GSP-ISS-537m



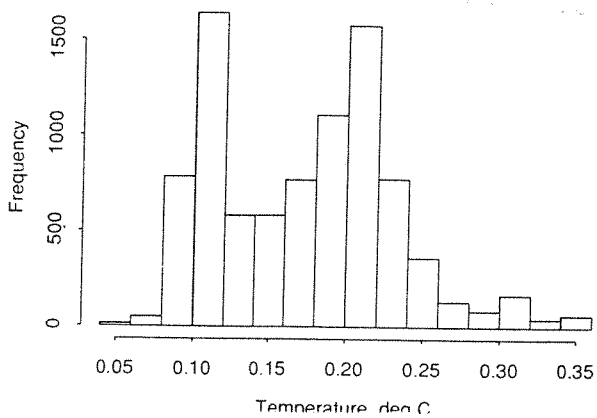
GSP-ISS-537m



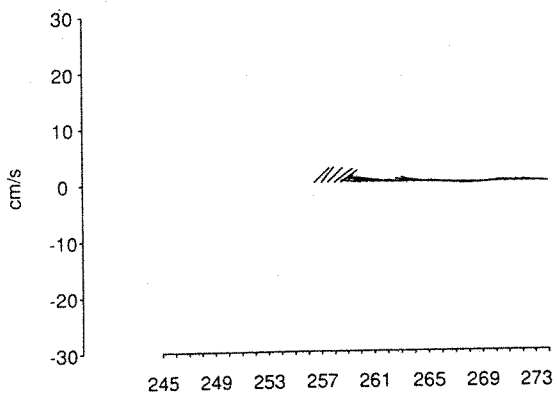
GSP-ISS-537m



GSP-ISS-537m

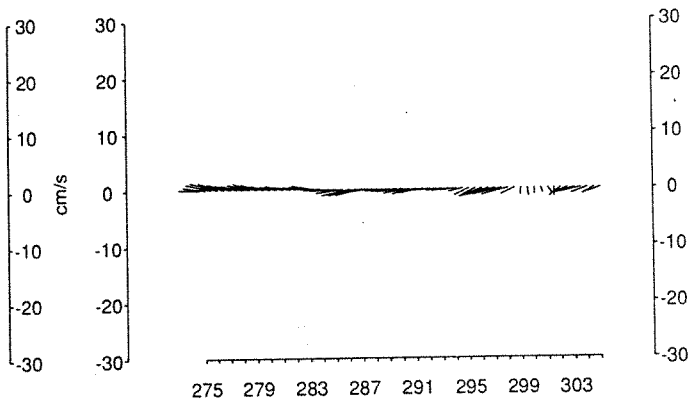


GSP-IS5-537m SEPTEMBER 1988



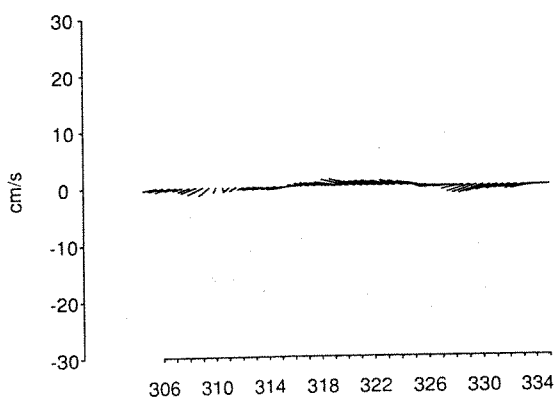
Day number 1988

GSP-IS5-537m OCTOBER 1988



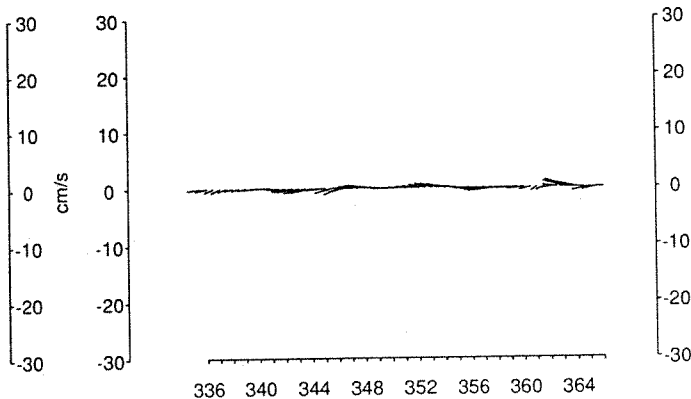
Day number 1988

GSP-IS5-537m , NOVEMBER 1988



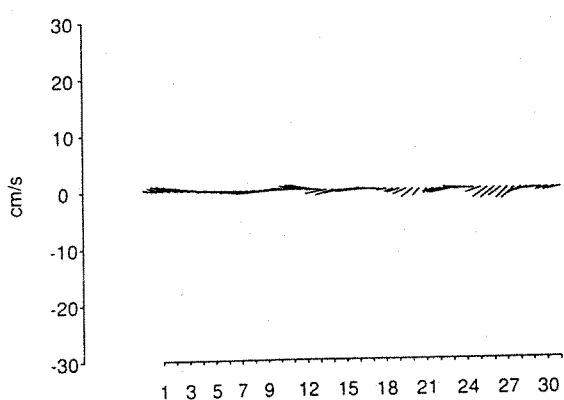
Day number 1988

GSP-IS5-537m , DECEMBER 1988



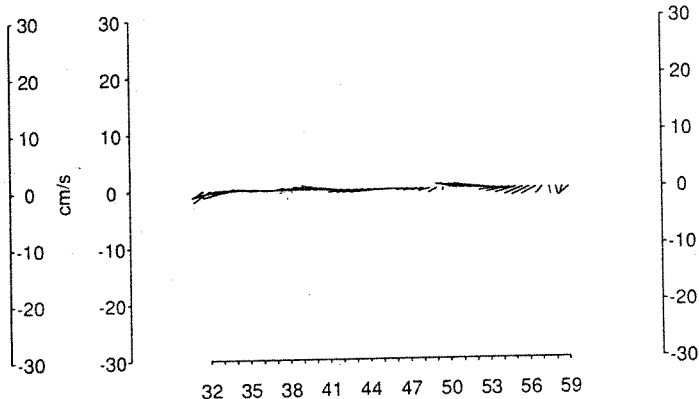
Day number 1988

GSP-IS5-537m , JANUARY 1989



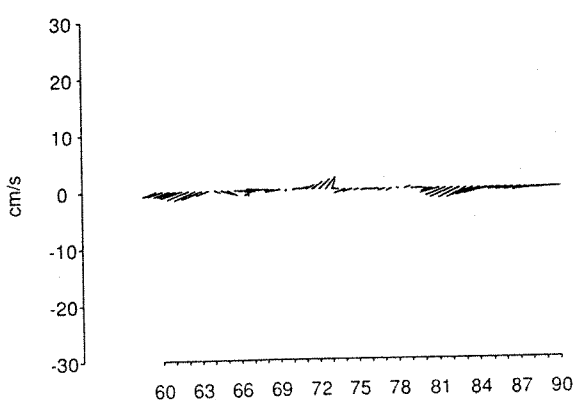
Day number 1989

GSP-IS5-537m , FEBRUARY 1989



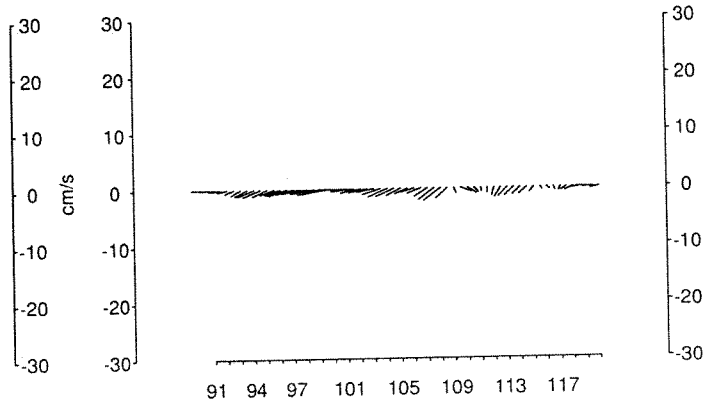
Day number 1989

GSP-IS5-537m , MARCH 1989



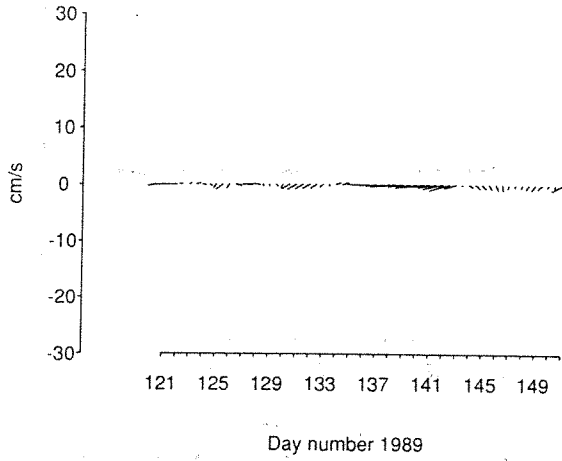
Day number 1989

GSP-IS5-537m , APRIL 1989

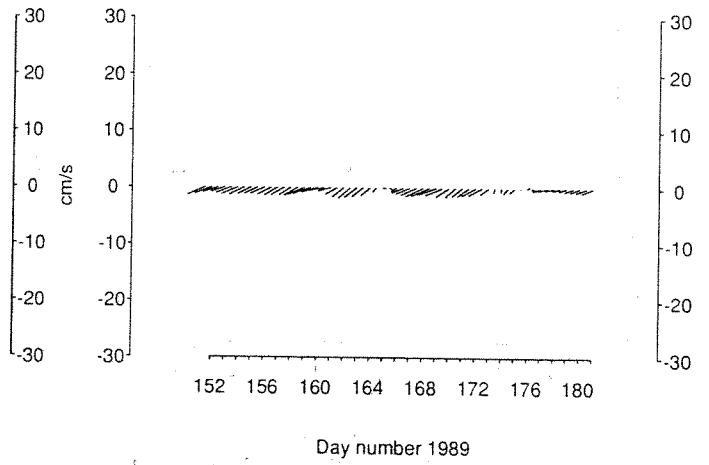


Day number 1989

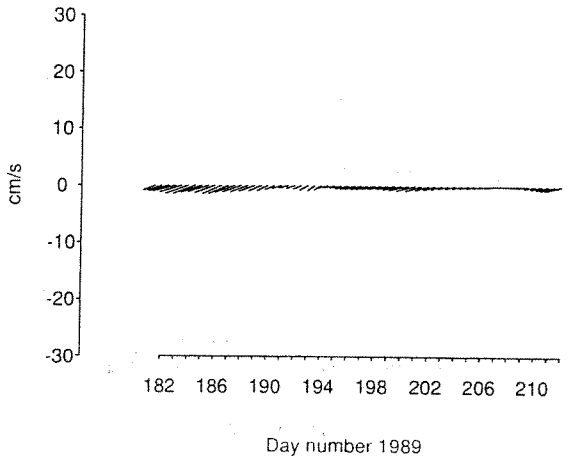
GSP-IS5-537m , MAY 1989



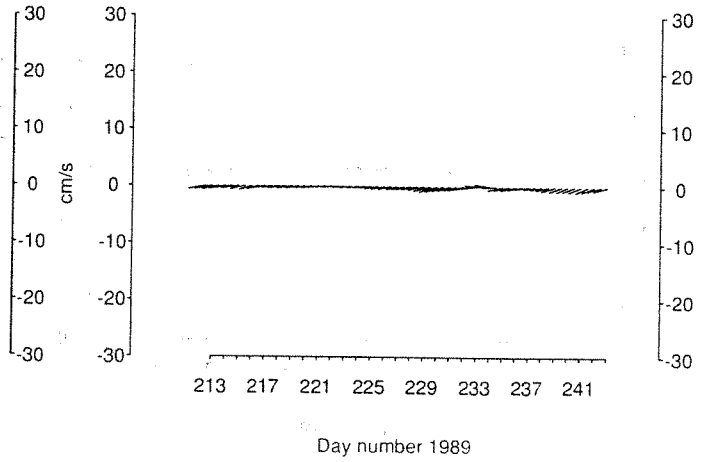
GSP-IS5-537m , JUNE 1989



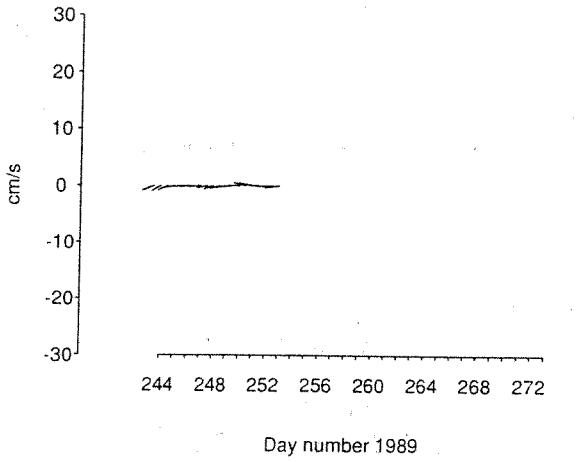
GSP-IS5-537m , JULY 1989



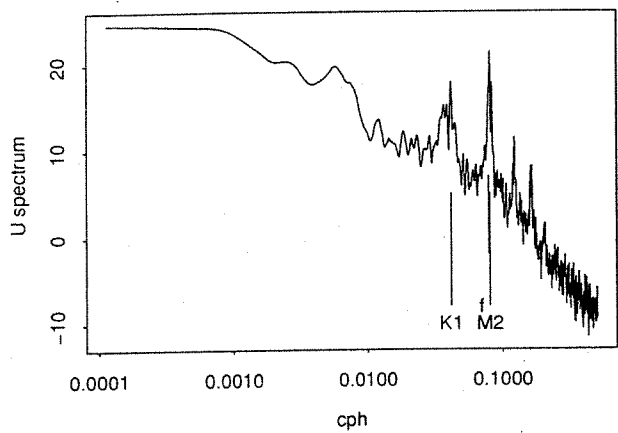
GSP-IS5-537m , AUGUST 1989



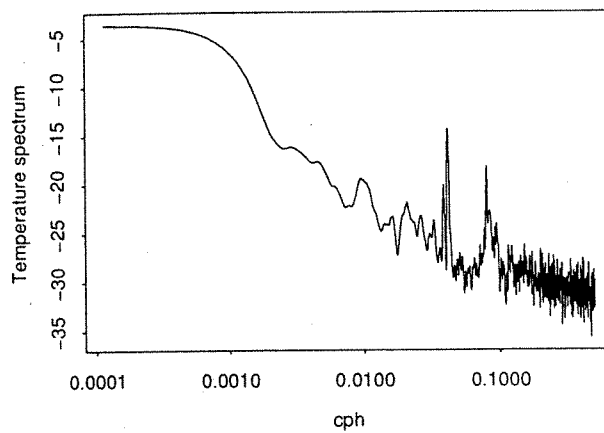
GSP-IS5-537m , SEPTEMBER 1989



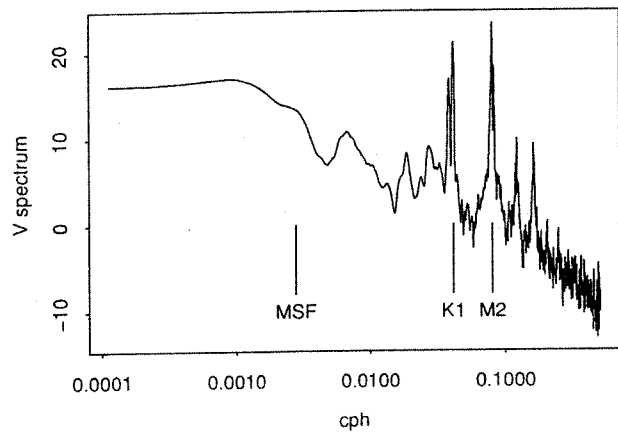
GSP-IS5-537m



GSP-IS5-537m



GSP-IS5-537m



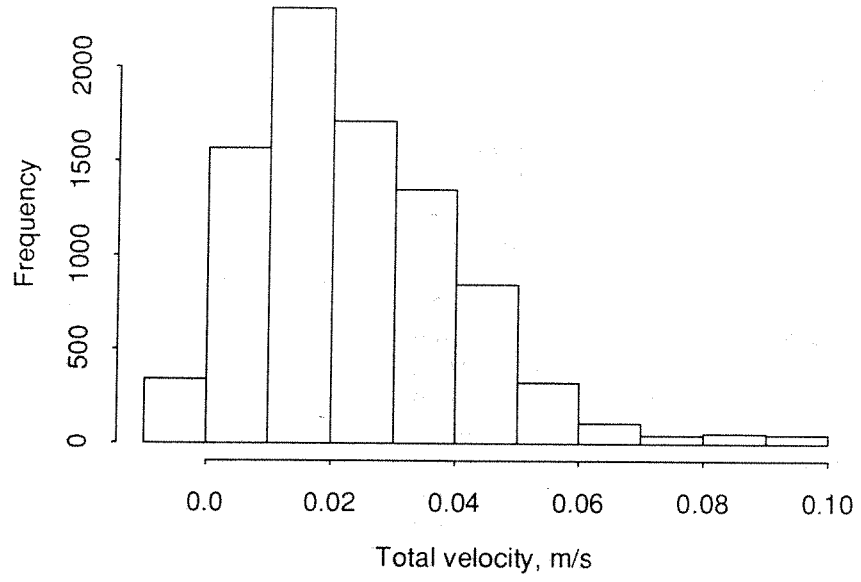
AA670205
IS5 - 987m

GSP-IS5-987m, 71°N section, 13/9/88-11/9/89. Means and deviations of filtered speed and temperature.

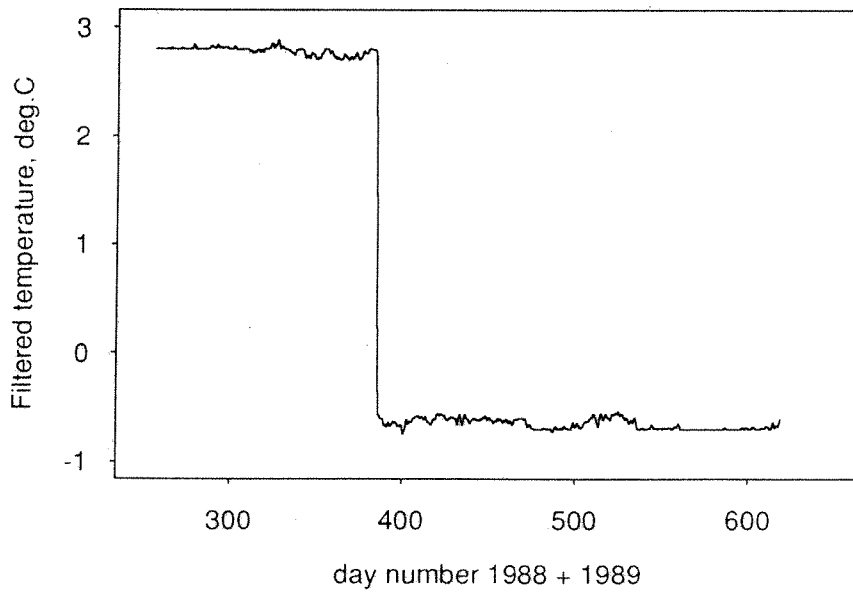
Period (month)	Speed m/s mean (st.dev.)		Temperature °C mean (st.dev.)
Total:	0.024 (0.017)		-- (1.64)
Sep 88	0.022 (0.009)		2.80 (0.01)
Oct 88	0.031 (0.010)		2.81 (0.01)
Nov 88	0.041 (0.008)		2.80 (0.03)
Dec 88	0.027 (0.011)		2.75 (0.03)
Jan 89	0.037 (0.013)		1.49 (1.61)
Feb 89	0.046 (0.023)		-0.62 (0.04)
Mar 89	0.023 (0.019)		-0.61 (0.02)
Apr 89	0.020 (0.010)		-0.65 (0.04)
May 89	0.014 (0.009)		-0.66 (0.04)
Jun 89	0.010 (0.006)		-0.63 (0.05)
Jul 89	0.011 (0.007)		-0.69 (0.01)
Aug 89	0.010 (0.007)		-0.70 (0.01)
Sep 89	0.014 (0.008)		-0.67 (0.02)

There is no information about direction

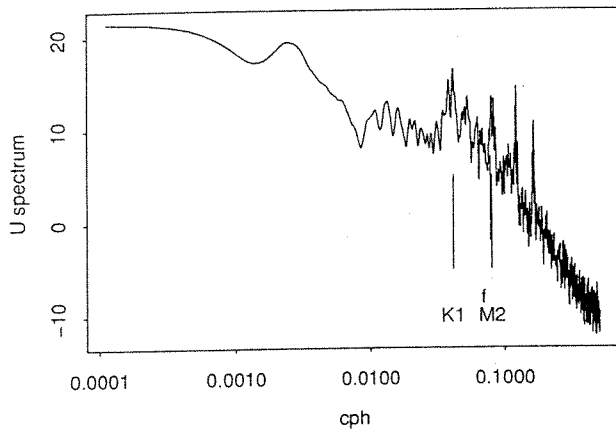
GSP-IS5-987m



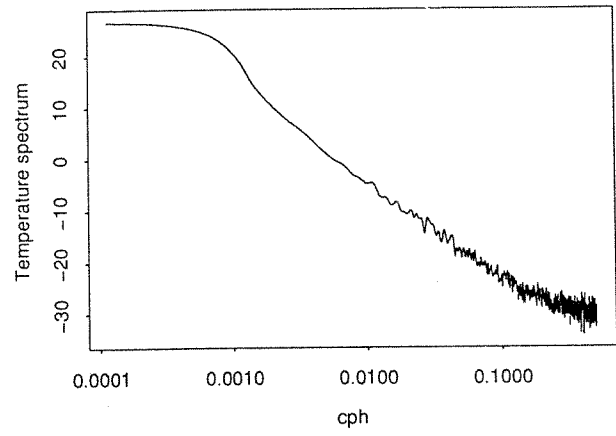
GSP-IS5-987m



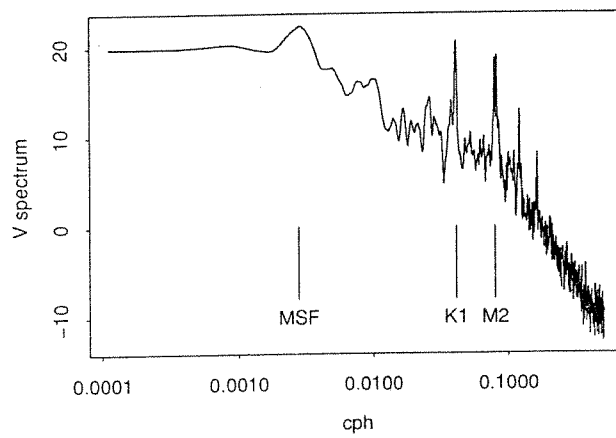
GSP-IS5-987m



GSP-IS5-987m



GSP-IS5-987m



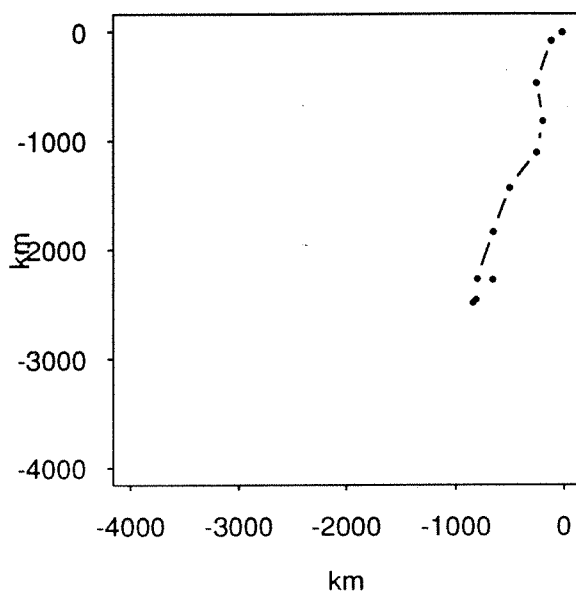
DENMARK STRAIT

AA790208
IS6 - 168m

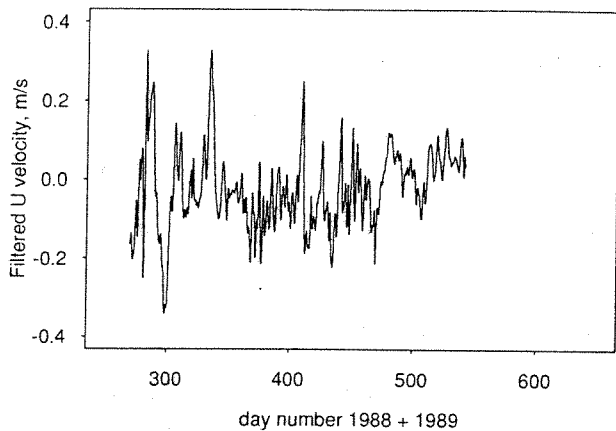
GSP-IS6-168m, Denmark Strait section, 26/9/88-26/6/89. Means and deviations of filtered current, temperature and salinity

Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu mean (st.dev.)
Total:	-0.023 (0.102)	-0.081 (0.115)	-1.58 (0.35)	34.04 (0.36)
Sep 88	-0.155 (0.042)	-0.104 (0.074)	-1.15 (0.30)	33.89 (0.33)
Oct 88	-0.045 (0.171)	-0.125 (0.093)	-0.79 (0.32)	33.46 (0.44)
Nov 88	0.019 (0.100)	-0.116 (0.123)	-1.42 (0.23)	33.82 (0.25)
Dec 88	-0.018 (0.084)	-0.092 (0.076)	-1.59 (0.16)	33.78 (0.16)
Jan 89	-0.082 (0.063)	-0.105 (0.108)	-1.75 (0.06)	34.05 (0.11)
Feb 89	-0.055 (0.094)	-0.144 (0.112)	-1.76 (0.05)	34.09 (0.15)
Mar 89	-0.048 (0.089)	-0.139 (0.101)	-1.74 (0.04)	34.29 (0.08)
Apr 89	-0.014 (0.080)	-0.074 (0.090)	-1.75 (0.07)	34.31 (0.13)
May 89	0.010 (0.049)	0.010 (0.065)	-1.79 (0.02)	34.29 (0.10)
Jun 89	0.059 (0.033)	0.081 (0.039)	-1.76 (0.03)	34.41 (0.04)

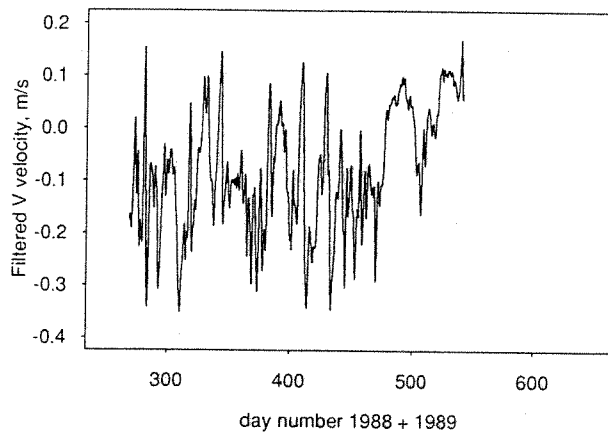
Prog.Vector GSP-IS6-168m



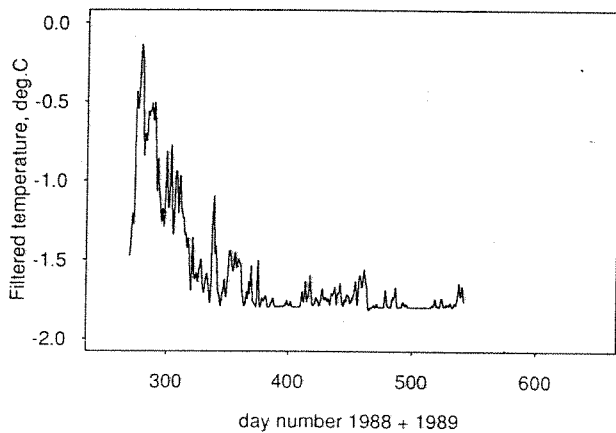
GSP-IS6-168m



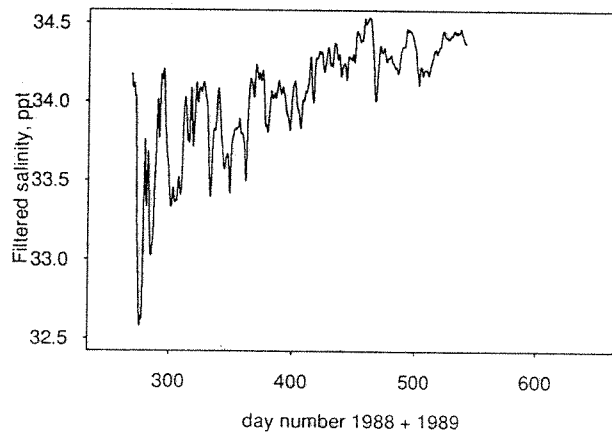
GSP-IS6-168m



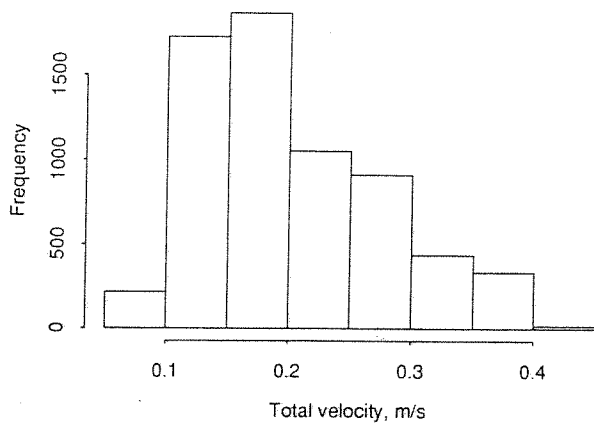
GSP-IS6-168m



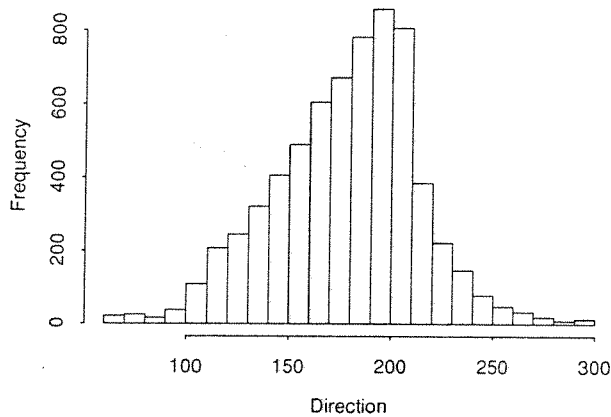
GSP-IS6-168m



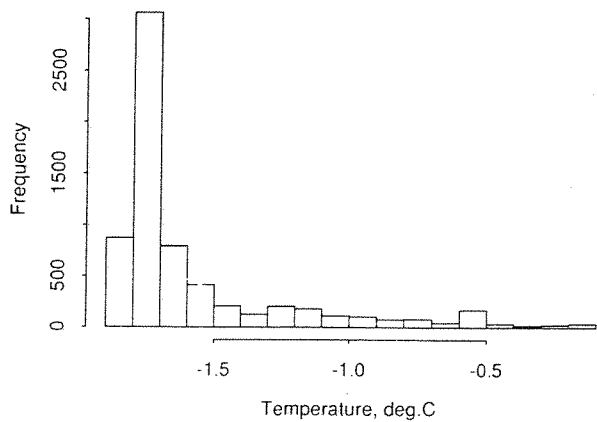
GSP-IS6-168m



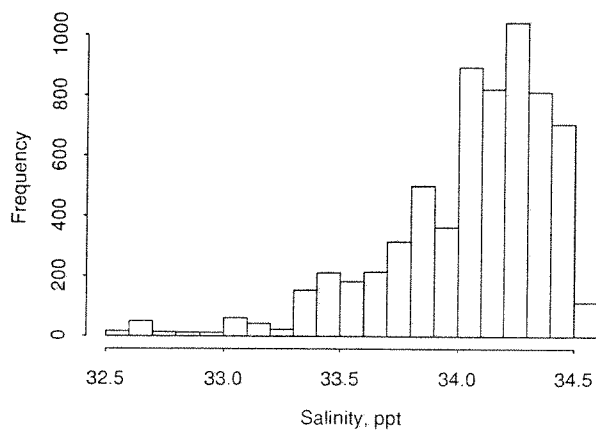
GSP-IS6-168m



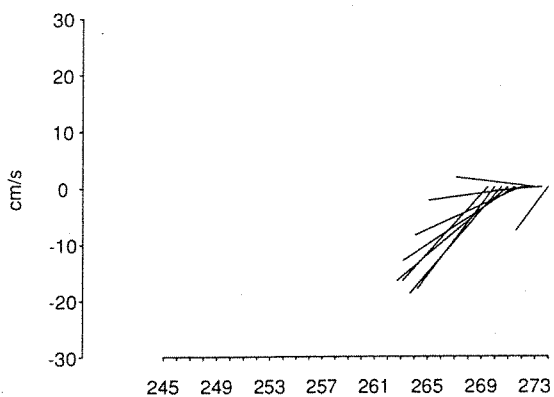
GSP-IS6-168m



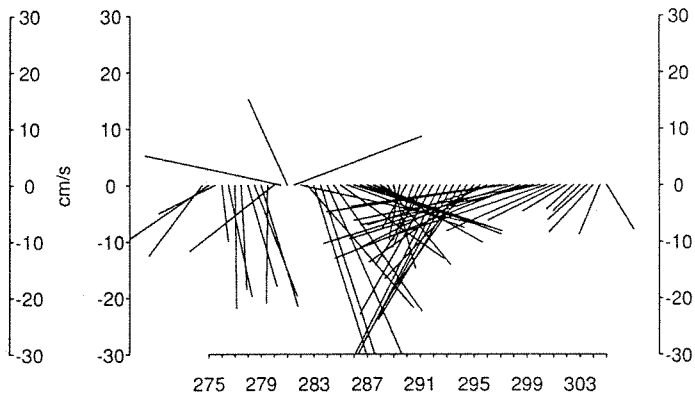
GSP-IS6-168m



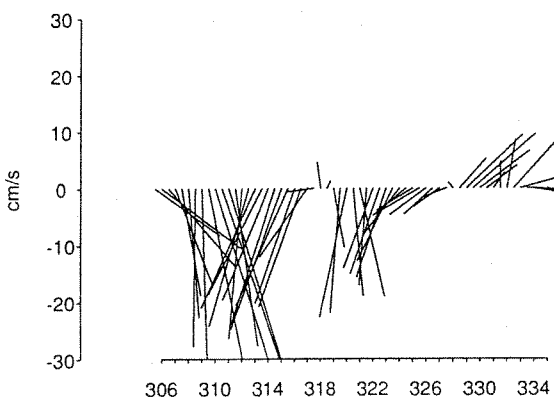
GSP-IS6-168m, SEPTEMBER 1988



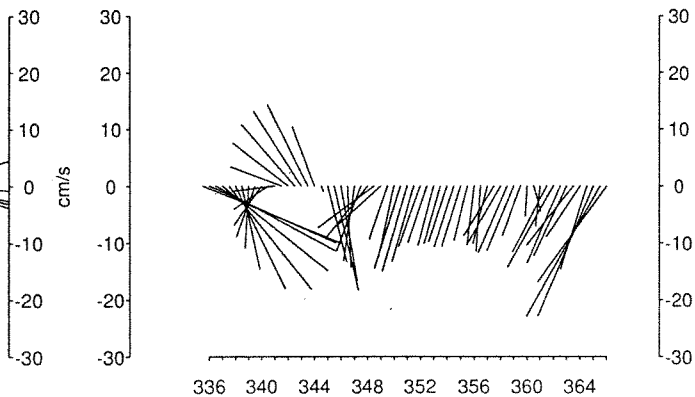
GSP-IS6-168m, OCTOBER 1988



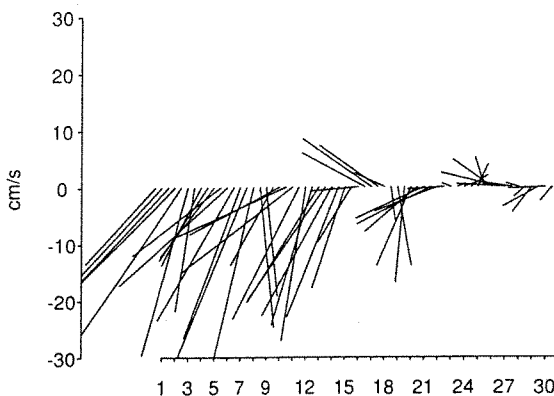
GSP-IS6-168m, NOVEMBER 1988



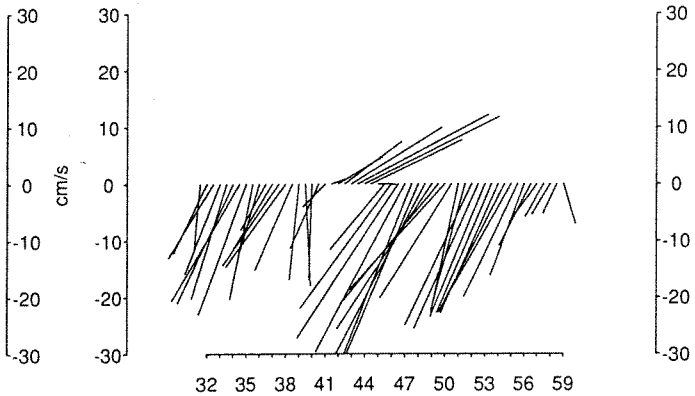
GSP-IS6-168m, DECEMBER 1988



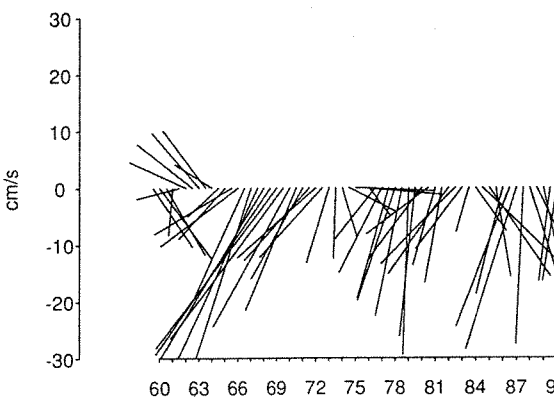
GSP-IS6-168m, JANUARY 1989



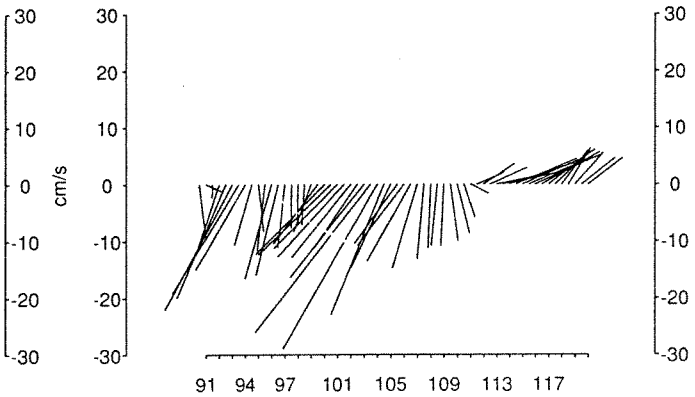
GSP-IS6-168m, FEBRUARY 1989



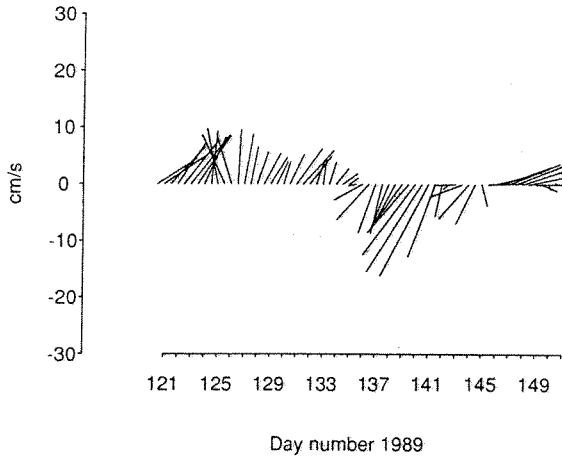
GSP-IS6-168m, MARCH 1989



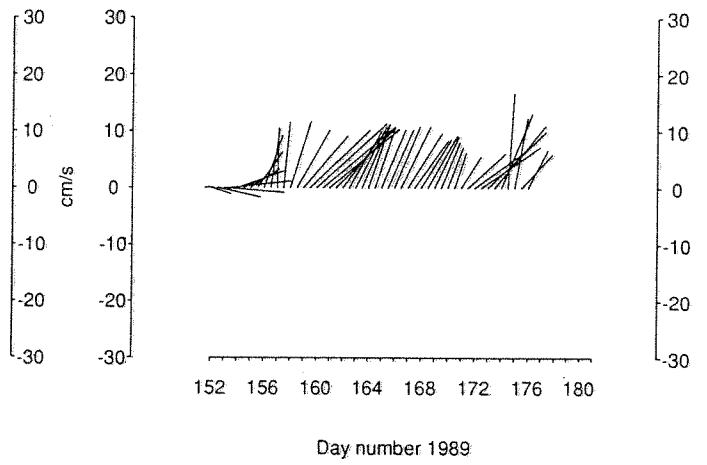
GSP-IS6-168m, APRIL 1989



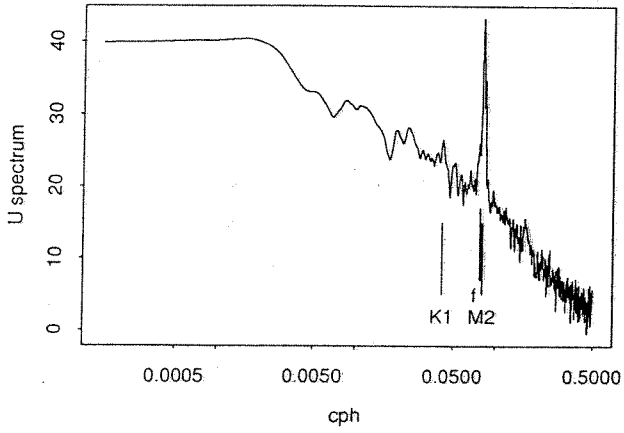
GSP-IS6-168m, MAY 1989



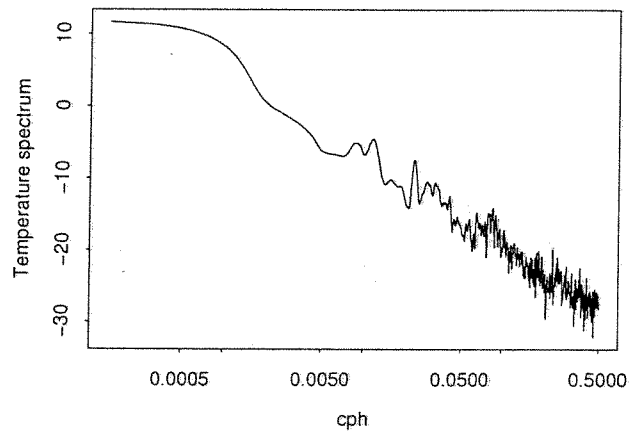
GSP-IS6-168m, JUNE 1989



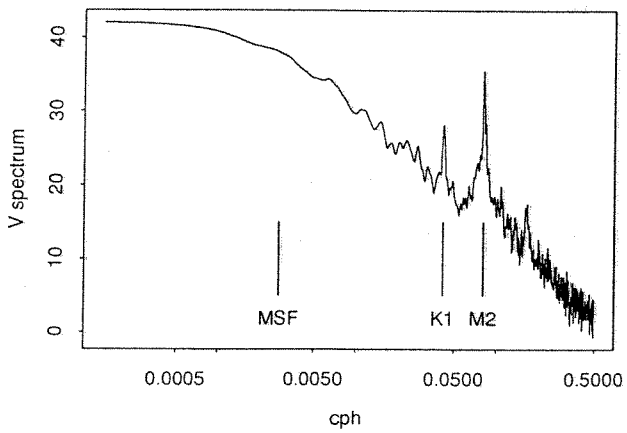
GSP-IS6-168m



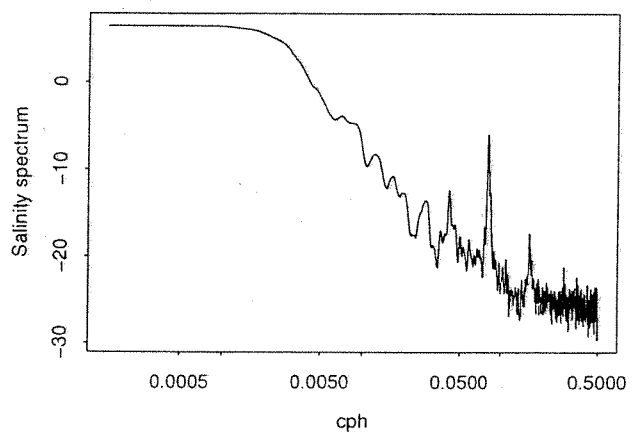
GSP-IS6-168m



GSP-IS6-168m



GSP-IS6-168m

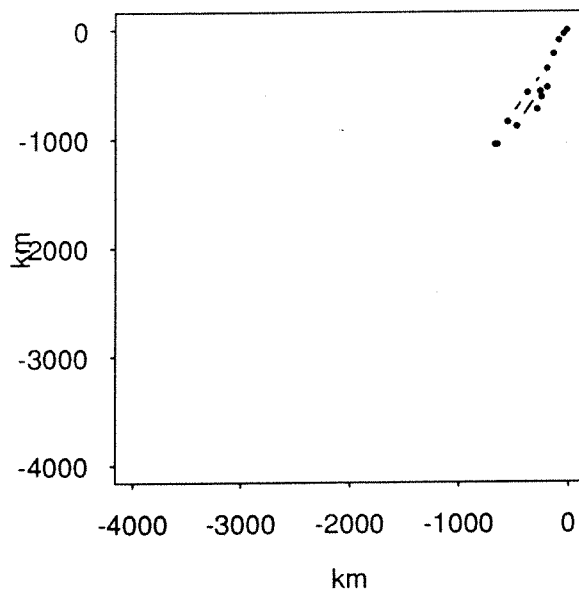


AA874402
IS6 - 519m

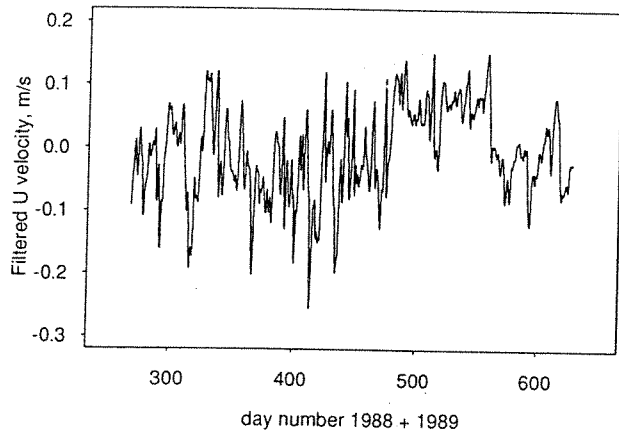
GSP-IS6-519m, Denmark Strait section, 26/9/88-20/9/89. Means and deviations of filtered current and temperature.

Period (month)	U, east comp. m/s mean (st.dev)	V, north comp. m/s mean (st.dev)	Temperature °C mean (st.dev)
Total:	-0.007 (0.071)	-0.020 (0.096)	0.59 (0.43)
Sep 88	-0.030 (0.028)	-0.039 (0.042)	0.78 (0.03)
Oct 88	-0.015 (0.052)	-0.020 (0.075)	0.78 (0.17)
Nov 88	-0.014 (0.086)	-0.042 (0.114)	0.89 (0.07)
Dec 88	-0.020 (0.059)	-0.042 (0.066)	0.88 (0.14)
Jan 89	-0.058 (0.045)	-0.072 (0.060)	0.91 (0.07)
Feb 89	-0.067 (0.079)	-0.095 (0.108)	0.49 (0.26)
Mar 89	-0.036 (0.065)	-0.065 (0.097)	0.07 (0.63)
Apr 89	0.006 (0.070)	0.001 (0.083)	0.07 (0.75)
May 89	0.057 (0.039)	0.052 (0.056)	0.50 (0.35)
Jun 89	0.074 (0.025)	0.106 (0.036)	0.57 (0.19)
Jul 89	0.020 (0.066)	0.012 (0.103)	0.53 (0.14)
Aug 89	-0.018 (0.036)	-0.030 (0.058)	0.69 (0.11)
Sep 89	-0.016 (0.052)	-0.052 (0.054)	0.70 (0.04)

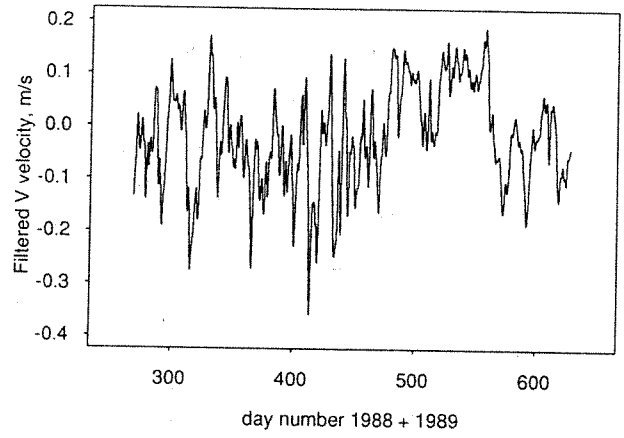
Prog.Vector GSP-IS6-519m



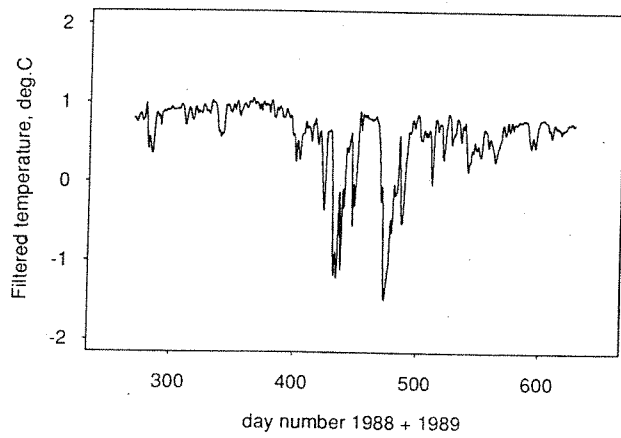
GSP-IS6-519m



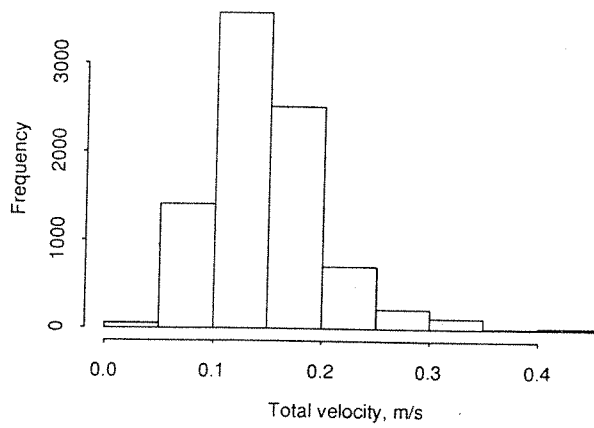
GSP-IS6-519m



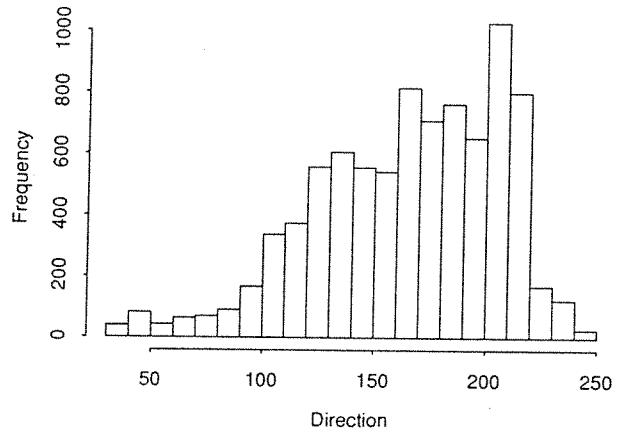
GSP-IS6-519m



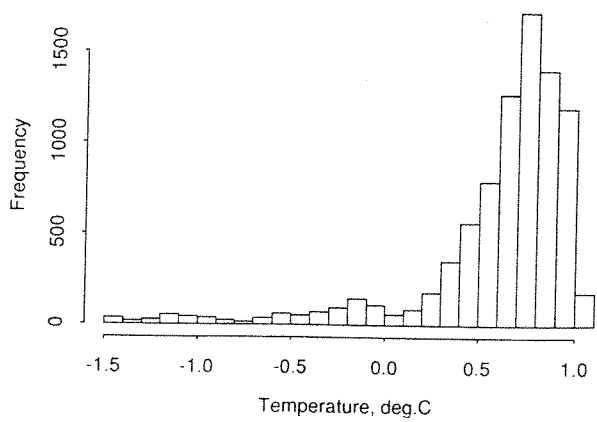
GSP-IS6-519m



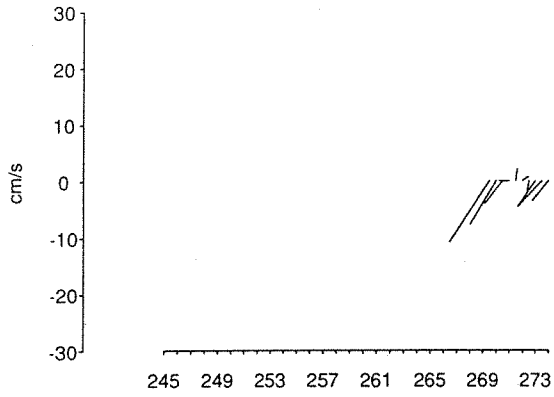
GSP-IS6-519m



GSP-IS6-519m

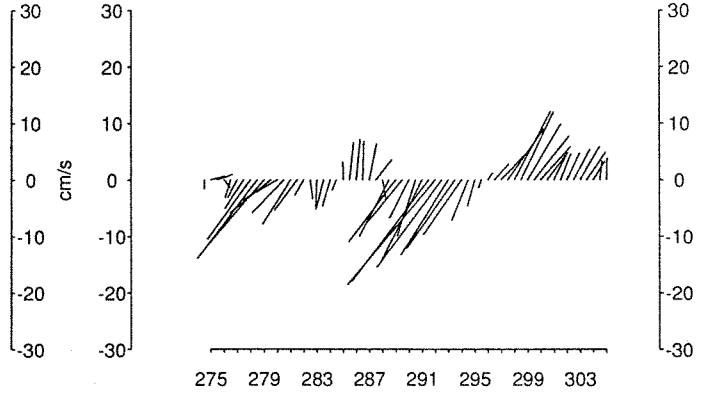


GSP-IS6-519m, SEPTEMBER 1988



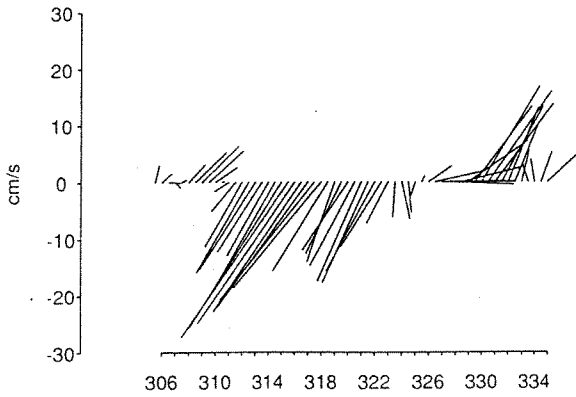
Day number 1988

GSP-IS6-519m, OCTOBER 1988



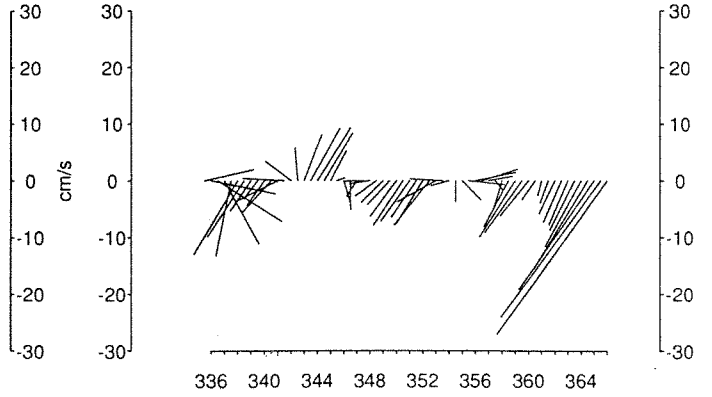
Day number 1988

GSP-IS6-519m, NOVEMBER 1988



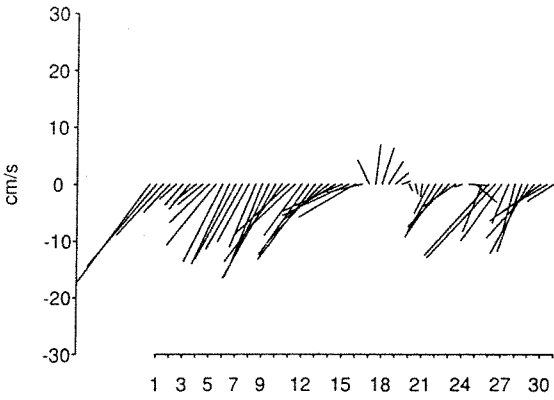
Day number 1988

GSP-IS6-519m, DECEMBER 1988



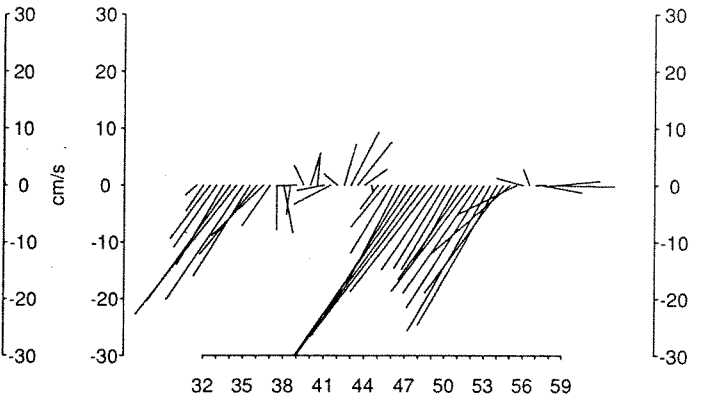
Day number 1988

GSP-IS6-519m, JANUARY 1989



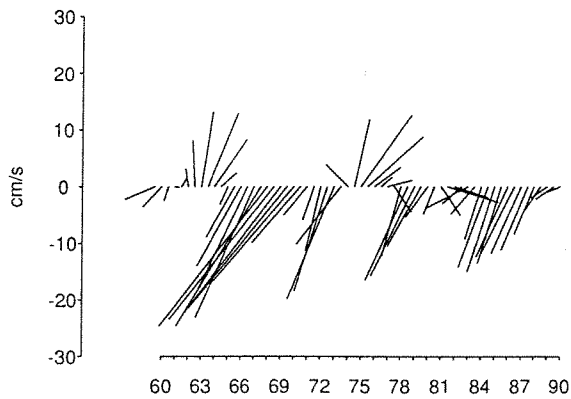
Day number 1989

GSP-IS6-519m, FEBRUARY 1989



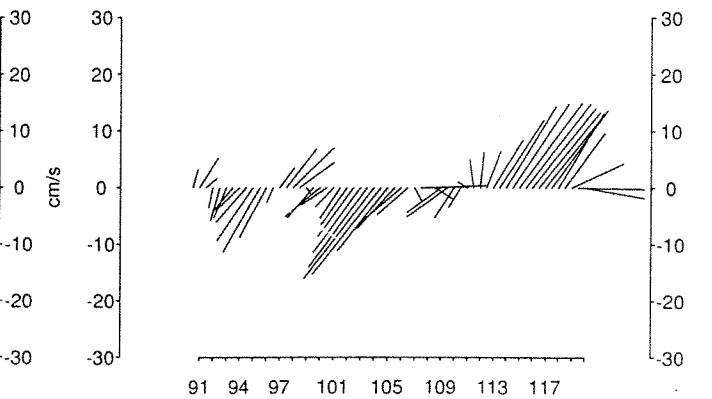
Day number 1989

GSP-IS6-519m, MARCH 1989



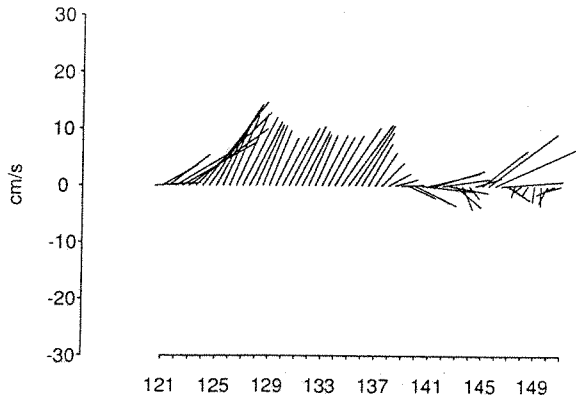
Day number 1989

GSP-IS6-519m, APRIL 1989

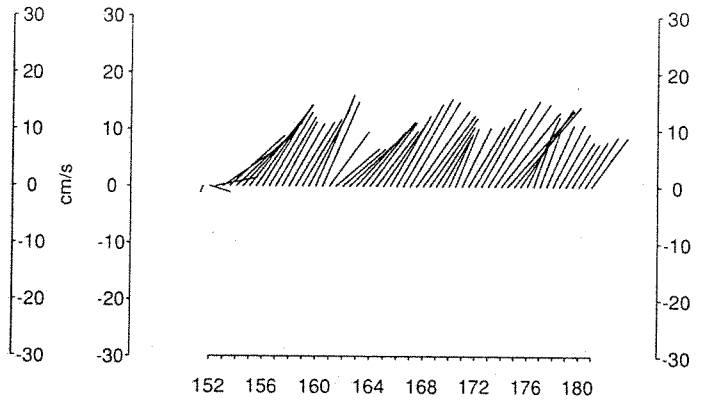


Day number 1989

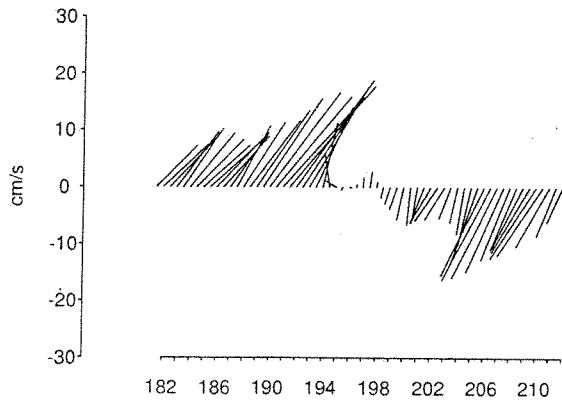
GSP-IS6-519m, MAY 1989



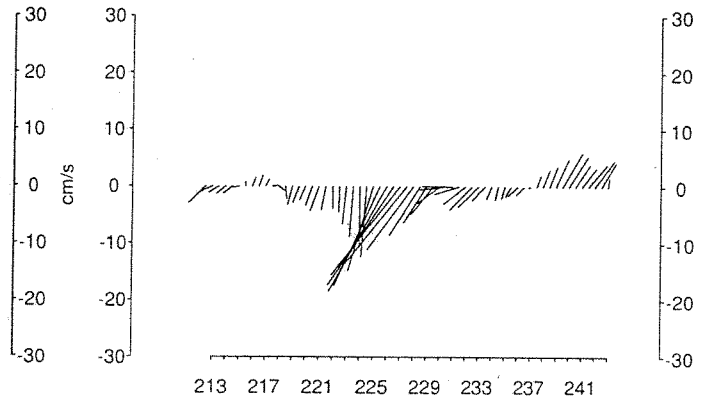
GSP-IS6-519m, JUNE 1989



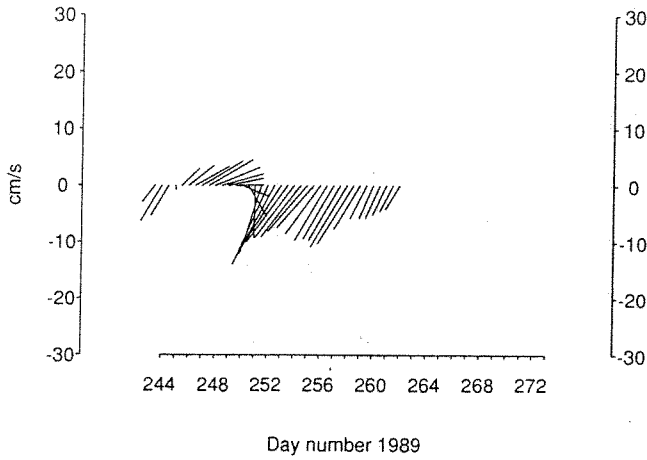
GSP-IS6-519m, JULY 1989



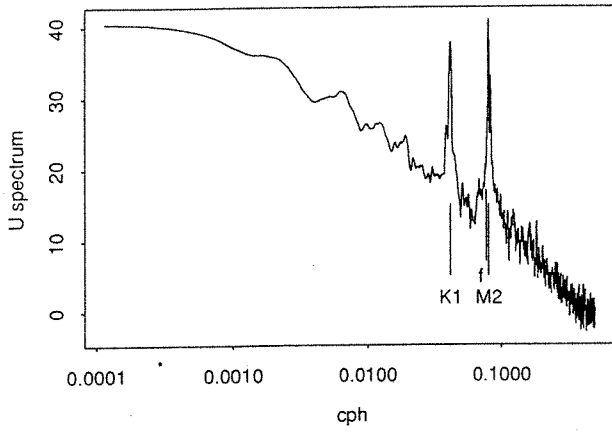
GSP-IS6-519m, AUGUST 1989



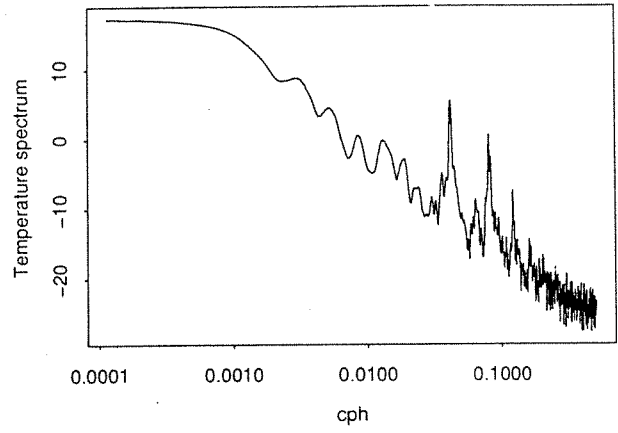
GSP-IS6-519m, SEPTEMBER 1989



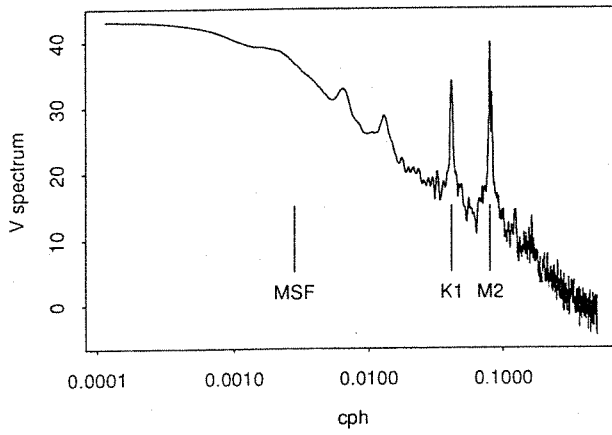
GSP-IS6-519m



GSP-IS6-519m



GSP-IS6-519m

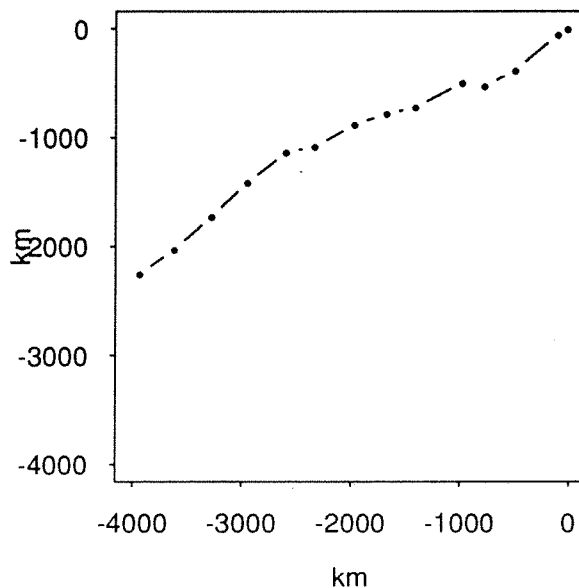


AA684506
IS7 - 80m

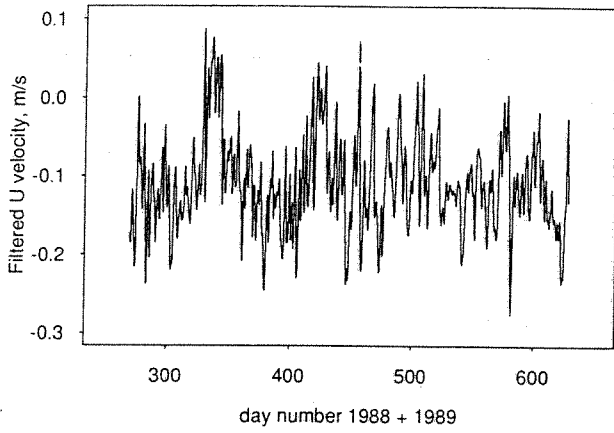
GSP-IS7-80m, Denmark Strait section, 27/9/88-20/9/89. Means and deviations of filtered current and temperature.

Period (month)	U, east comp. m/s mean (st.dev)	V, north comp. m/s mean (st.dev)	Temperature °C mean (st.dev)
Total:	-0.109 (0.060)	-0.062 (0.074)	0.20 (1.27)
Sep 88	-0.163 (0.028)	-0.109 (0.024)	0.60 (0.80)
Oct 88	-0.126 (0.053)	-0.106 (0.056)	0.82 (0.95)
Nov 88	-0.096 (0.063)	-0.049 (0.065)	0.77 (0.50)
Dec 88	-0.063 (0.067)	0.010 (0.047)	0.16 (0.54)
Jan 89	-0.140 (0.043)	-0.075 (0.053)	0.21 (0.65)
Feb 89	-0.095 (0.069)	-0.021 (0.057)	-0.97 (1.11)
Mar 89	-0.095 (0.067)	-0.032 (0.053)	-1.46 (0.49)
Apr 89	-0.120 (0.061)	-0.067 (0.088)	-0.53 (0.47)
May 89	-0.085 (0.052)	-0.016 (0.077)	0.34 (1.19)
Jun 89	-0.120 (0.040)	-0.093 (0.065)	0.26 (0.87)
Jul 89	-0.106 (0.047)	-0.100 (0.061)	0.58 (1.68)
Aug 89	-0.111 (0.048)	-0.098 (0.058)	0.91 (1.30)
Sep 89	-0.155 (0.043)	-0.113 (0.066)	1.73 (1.29)

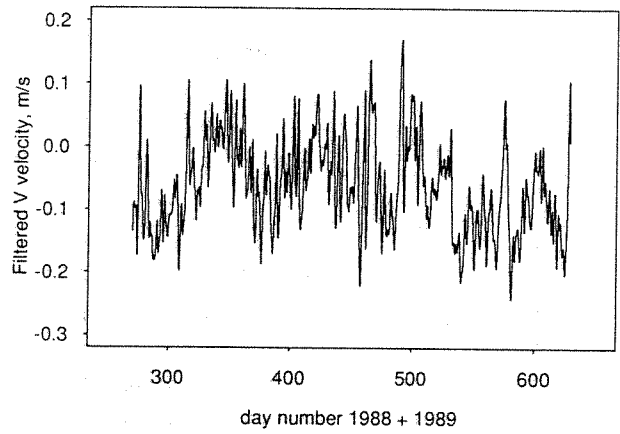
Prog.Vector GSP-IS7-80m



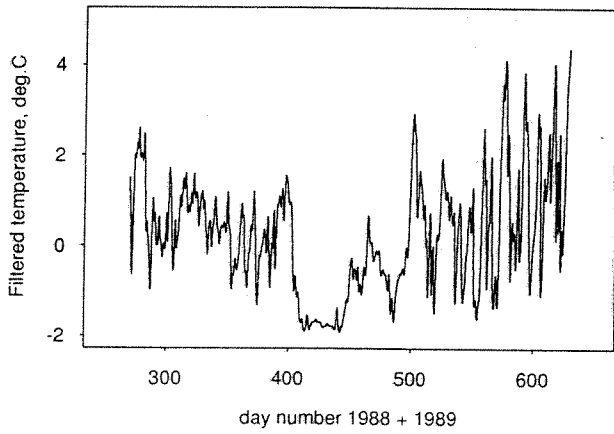
GSP-IS7-80m



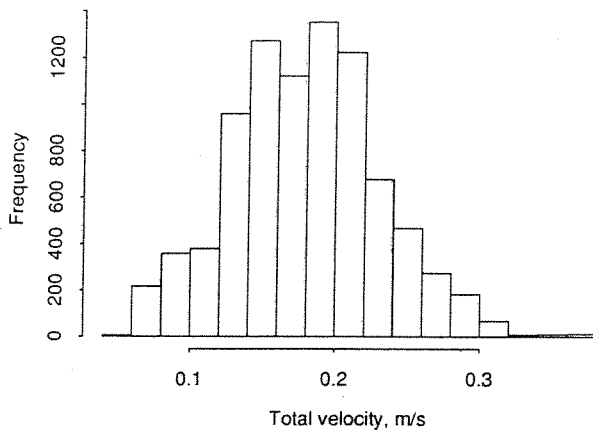
GSP-IS7-80m



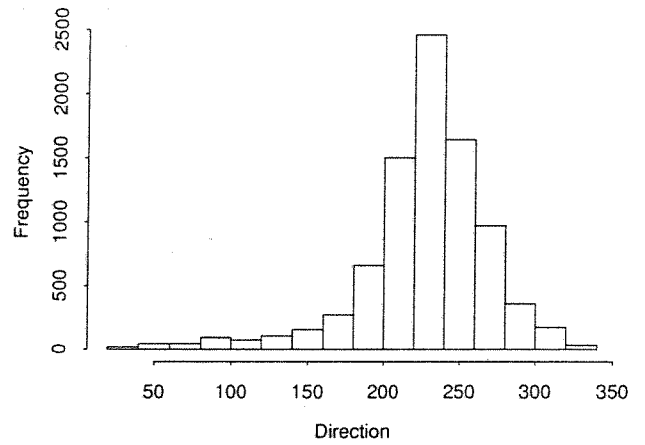
GSP-IS7-80m



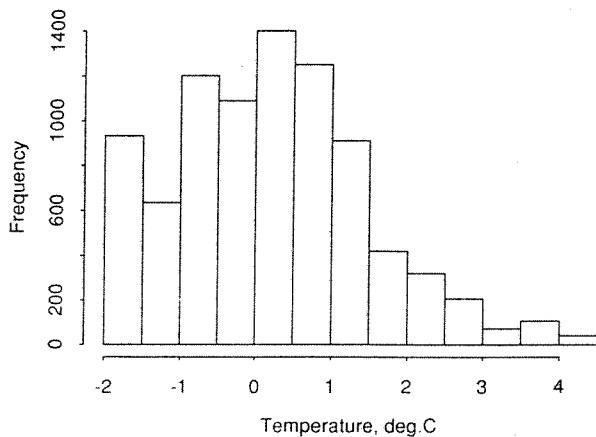
GSP-IS7-80m



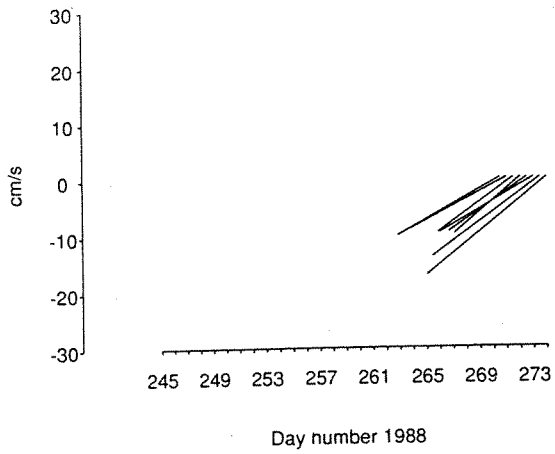
GSP-IS7-80m



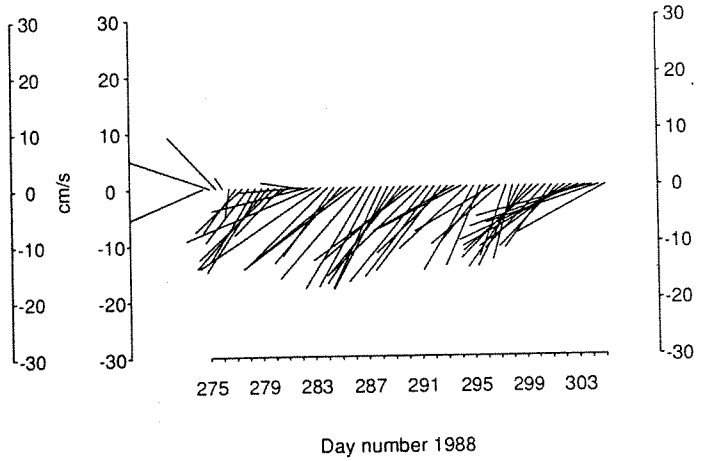
GSP-IS7-80m



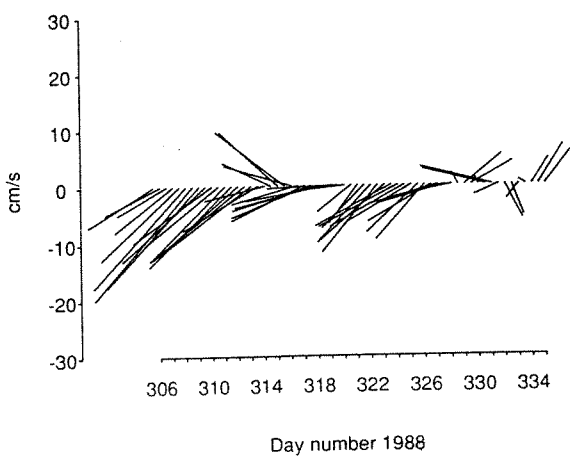
GSP-IS7-80m, SEPTEMBER 1988



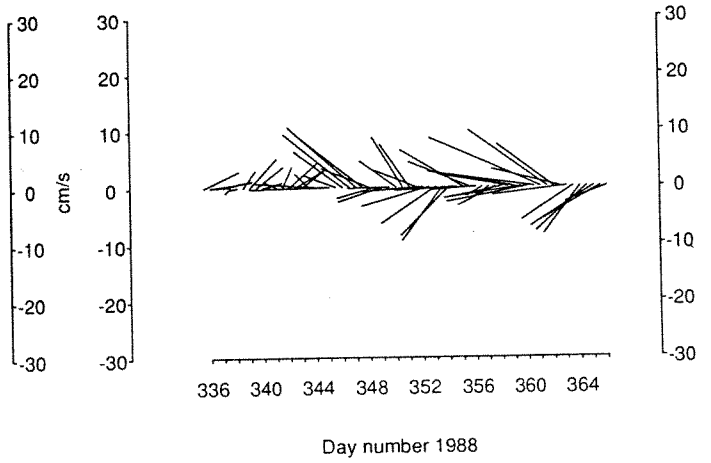
GSP-IS7-80m, OCTOBER 1988



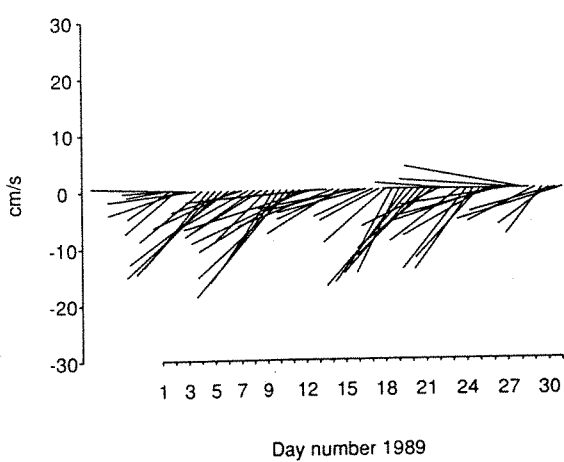
GSP-IS7-80m, NOVEMBER 1988



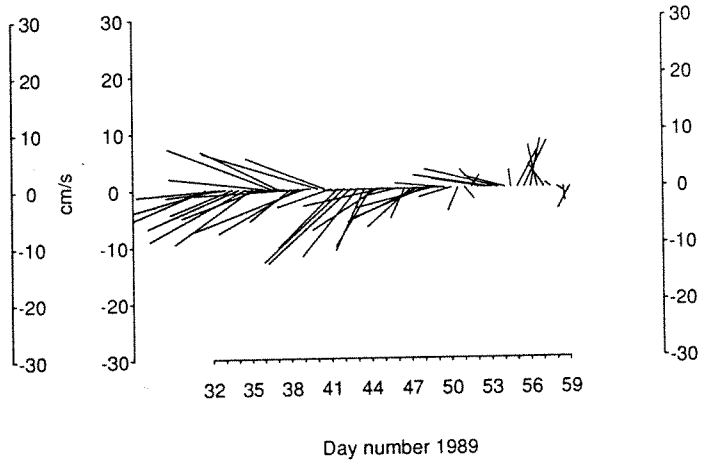
GSP-IS7-80m, DECEMBER 1988



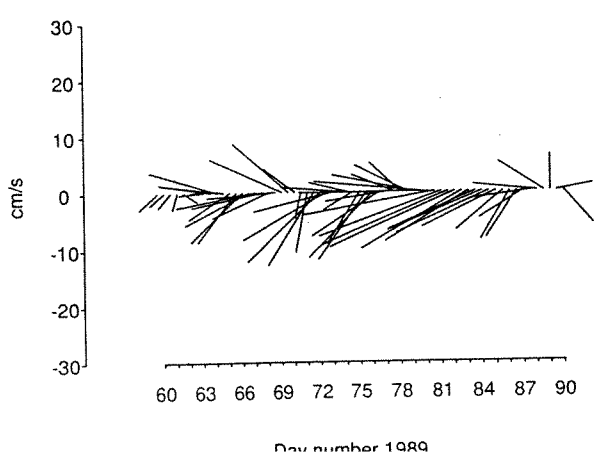
GSP-IS7-80m, JANUARY 1989



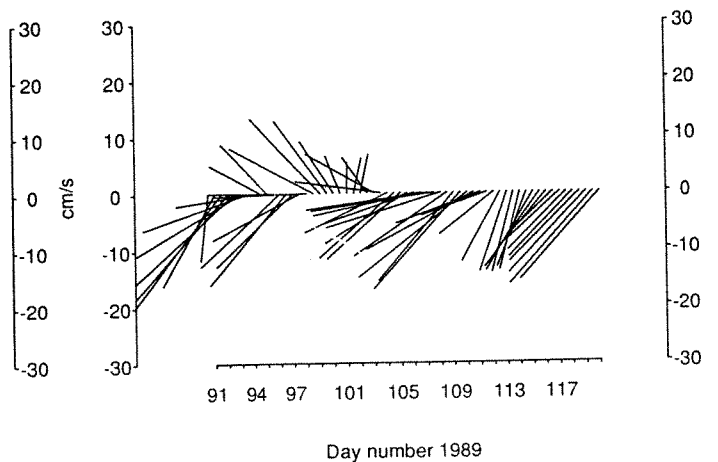
GSP-IS7-80m, FEBRUARY 1989



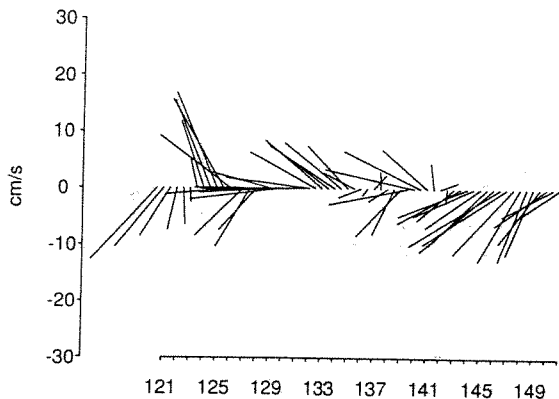
GSP-IS7-80m, MARCH 1989



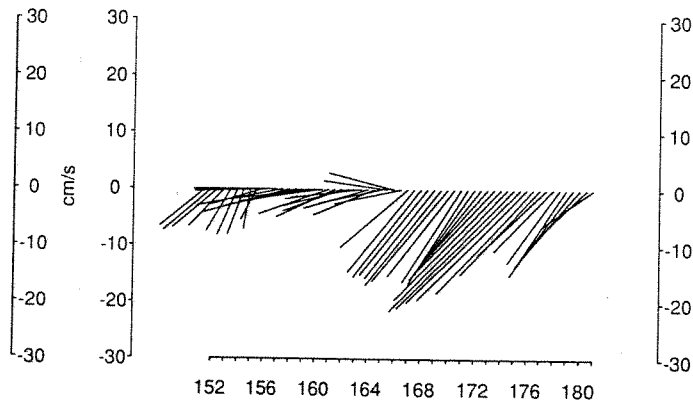
GSP-IS7-80m, APRIL 1989



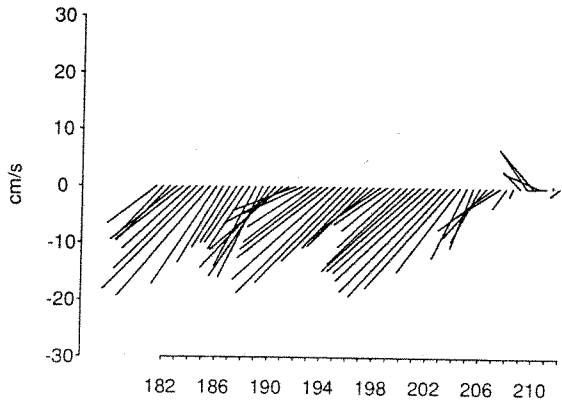
GSP-IS7-80m, MAY 1989



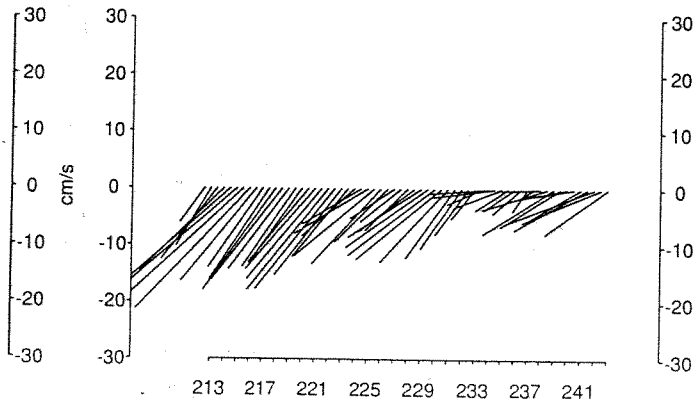
GSP-IS7-80m, JUNE 1989



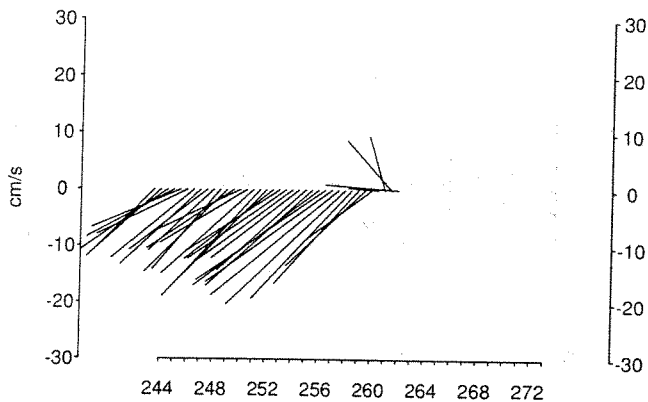
GSP-IS7-80m, JULY 1989



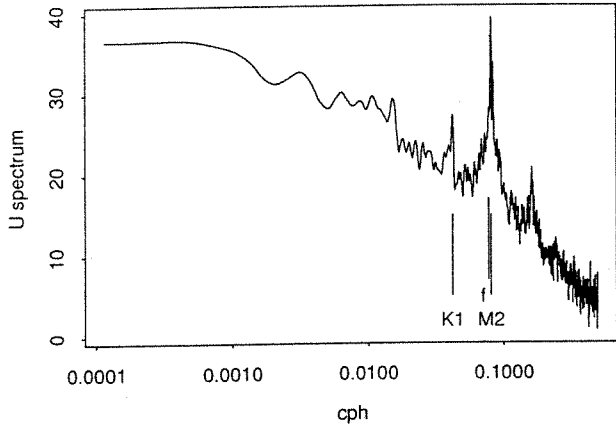
GSP-IS7-80m, AUGUST 1989



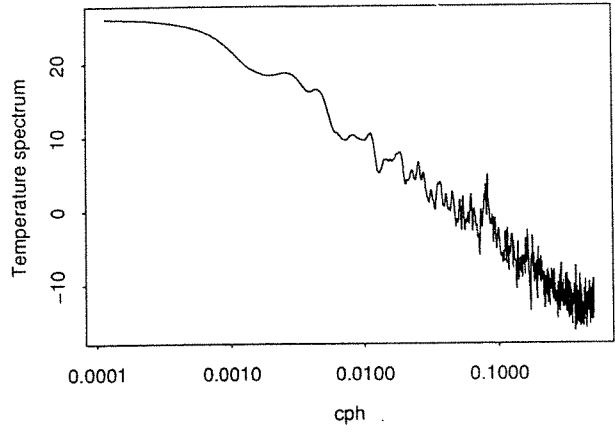
GSP-IS7-80m, SEPTEMBER 1989



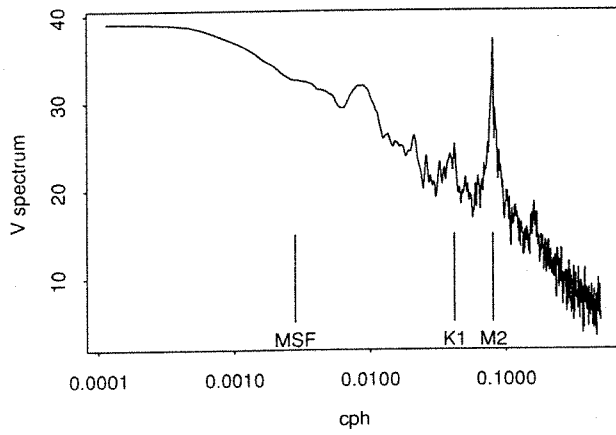
GSP-IS7-80m



GSP-IS7-80m



GSP-IS7-80m



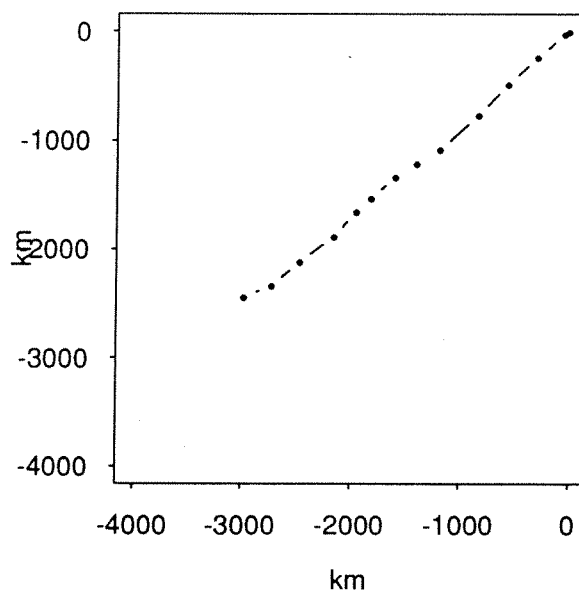
AA828604
IS7 - 500m

GSP-IS7-500m, Denmark Strait section, 27/9/88-20/9/89. Means and deviations of filtered current, temperature and salinity

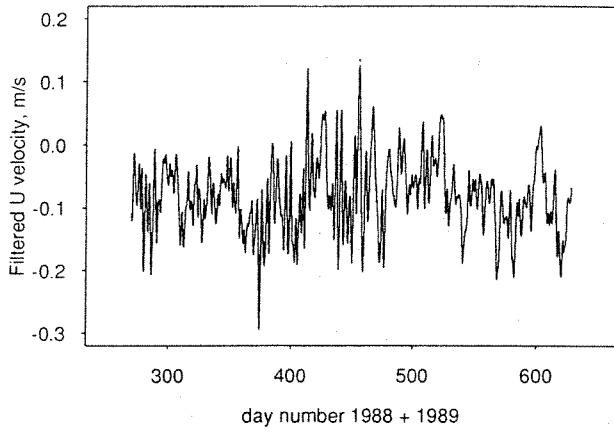
Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu ^{*)} mean (st.dev.)
Total:	-0.082 (0.058)	-0.068 (0.049)	0.01 (0.12)	34.90 (0.02)
Sep 88	-0.063 (0.035)	-0.025 (0.010)	0.06 (0.05)	34.91 (0.01)
Oct 88	-0.080 (0.047)	-0.069 (0.049)	0.04 (0.06)	34.89 (0.01)
Nov 88	-0.091 (0.038)	-0.082 (0.035)	0.08 (0.07)	34.89 (0.01)
Dec 88	-0.088 (0.039)	-0.091 (0.048)	0.02 (0.07)	34.89 (0.01)
Jan 89	-0.113 (0.060)	-0.101 (0.052)	-0.10 (0.08)	34.90 (0.01)
Feb 89	-0.076 (0.071)	-0.046 (0.048)	-0.16 (0.05)	34.90 (0.01)
Mar 89	-0.062 (0.078)	-0.042 (0.047)	-0.14 (0.03)	34.90 (0.01)
Apr 89	-0.074 (0.068)	-0.064 (0.053)	-0.07 (0.10)	34.90 (0.01)
May 89	-0.044 (0.037)	-0.041 (0.027)	0.02 (0.06)	34.89 (0.01)
Jun 89	-0.070 (0.058)	-0.076 (0.050)	0.05 (0.07)	34.89 (0.01)
Jul 89	-0.100 (0.041)	-0.076 (0.050)	0.15 (0.07)	34.89 (0.01)
Aug 89	-0.084 (0.057)	-0.069 (0.047)	0.14 (0.06)	34.90 (0.01)
Sep 89	-0.127 (0.042)	-0.056 (0.032)	0.13 (0.06)	34.91 (0.01)

*) Linear correction and calibration with respect to CTD at the start and the end.

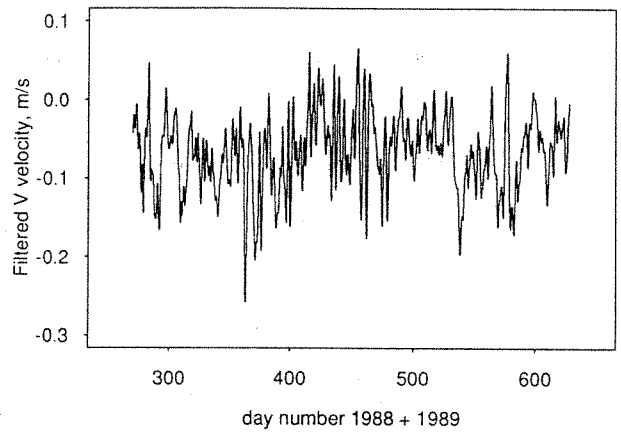
Prog.Vector GSP-IS7-500m



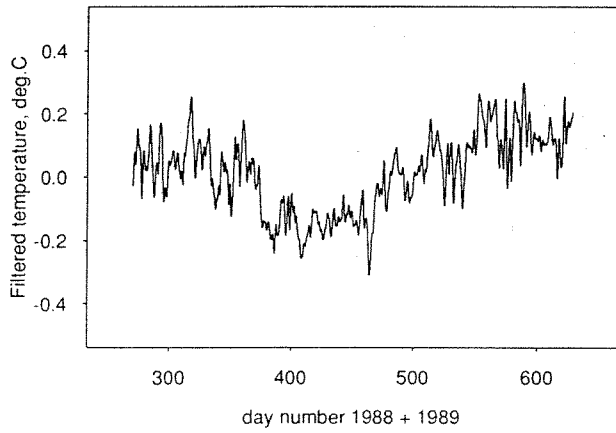
GSP-IS7-500m



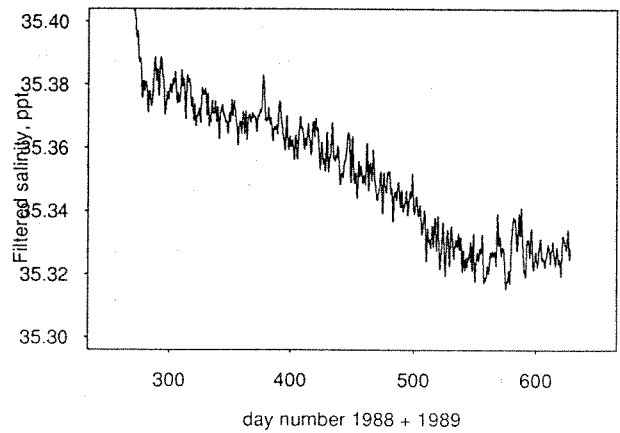
GSP-IS7-500m



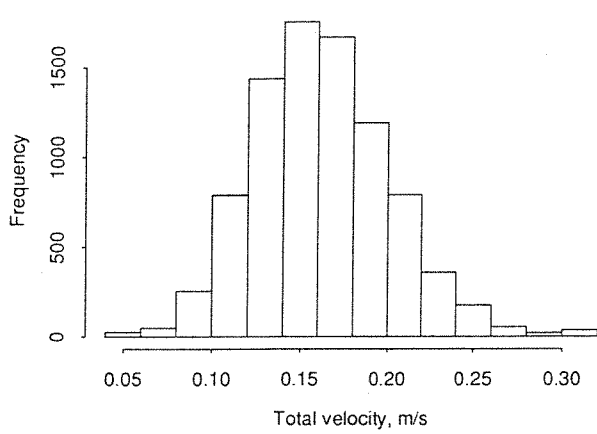
GSP-IS7-500m



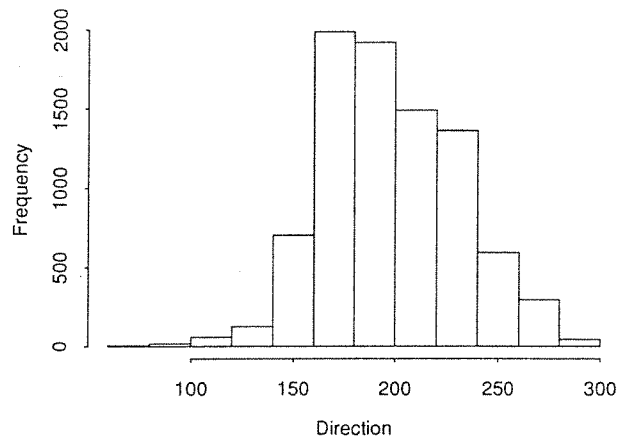
GSP-IS7-500m



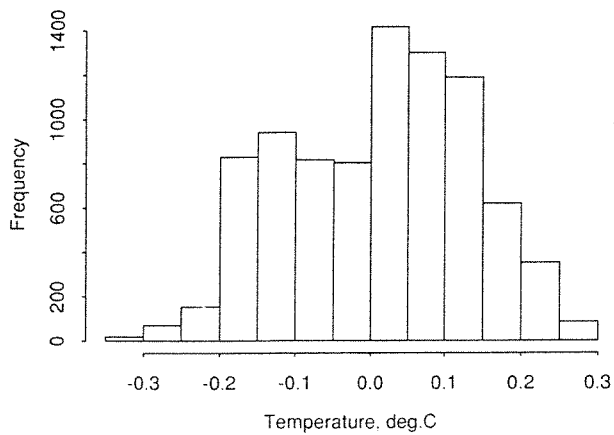
GSP-IS7-500m



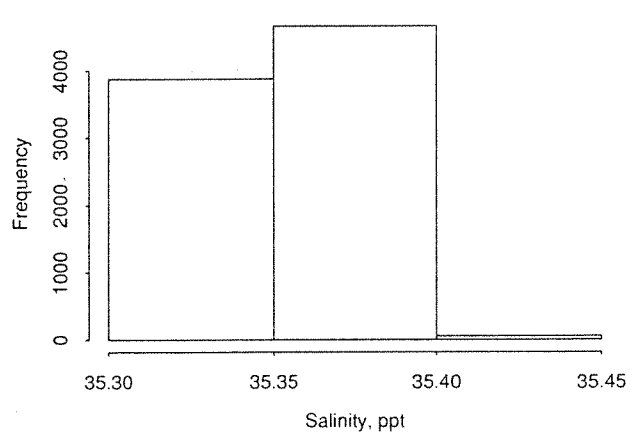
GSP-IS7-500m



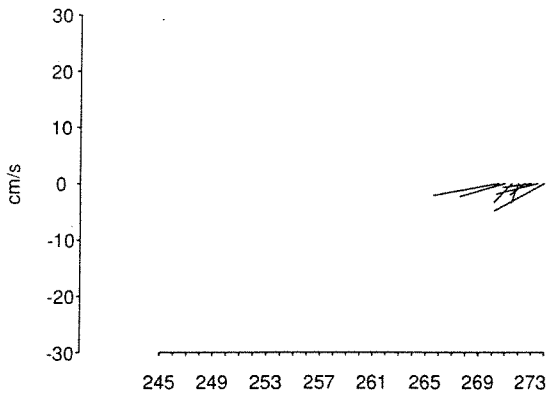
GSP-IS7-500m



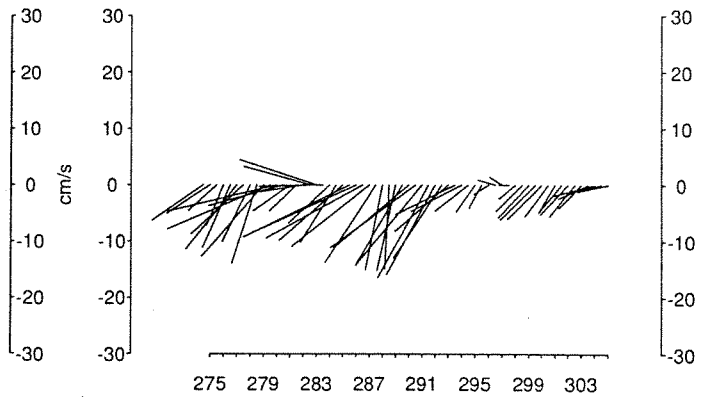
GSP-IS7-500m



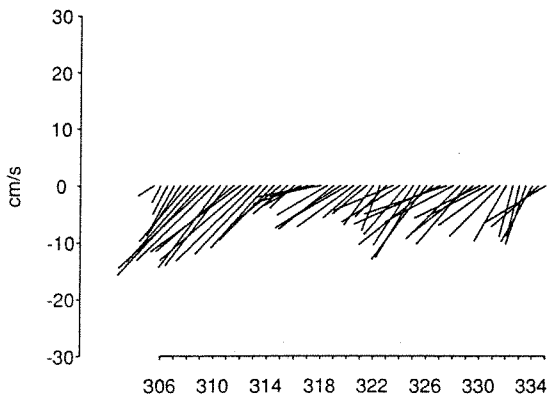
GSP-IS7-500m, SEPTEMBER 1988



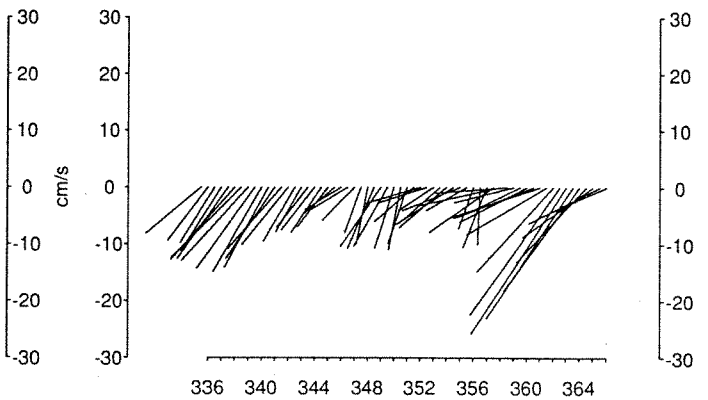
GSP-IS7-500m, OCTOBER 1988



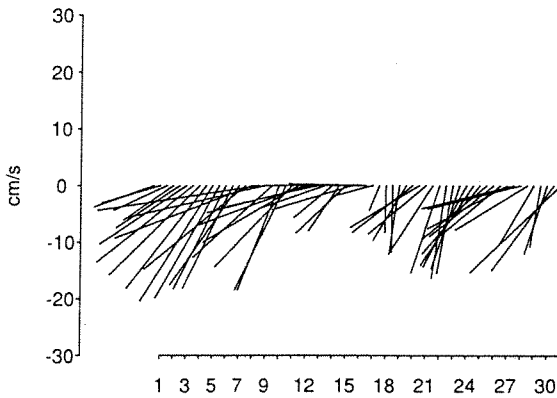
GSP-IS7-500m, NOVEMBER 1988



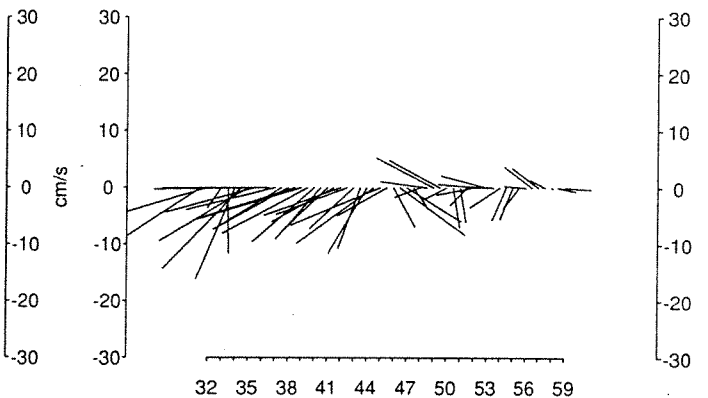
GSP-IS7-500m, DECEMBER 1988



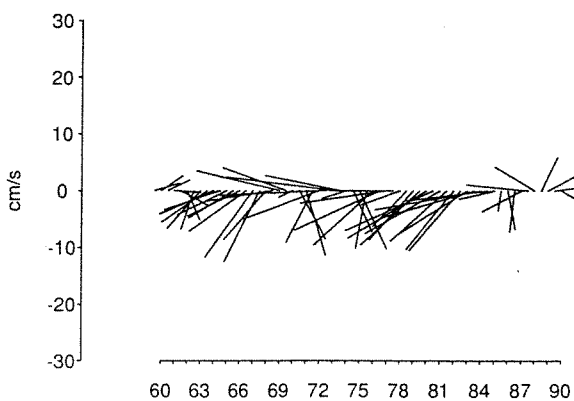
GSP-IS7-500m, JANUARY 1989



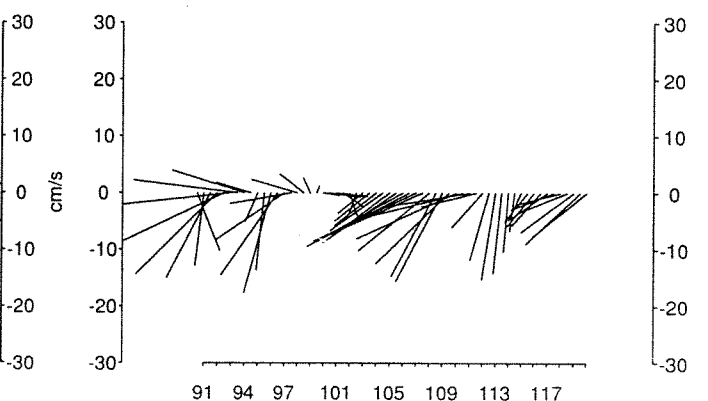
GSP-IS7-500m, FEBRUARY 1989



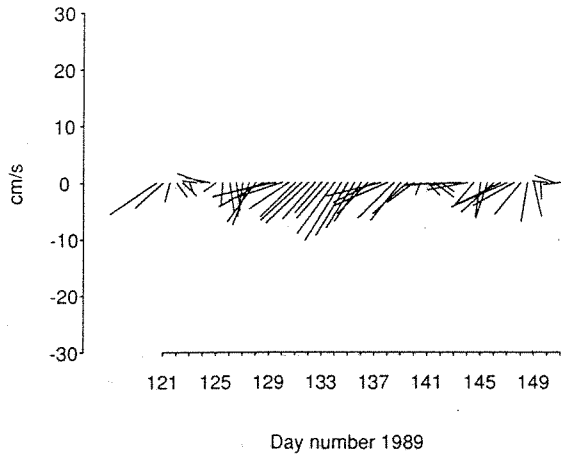
GSP-IS7-500m, MARCH 1989



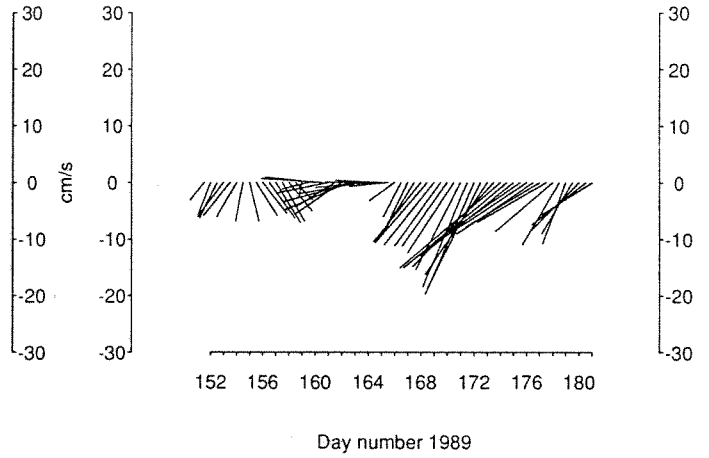
GSP-IS7-500m, APRIL 1989



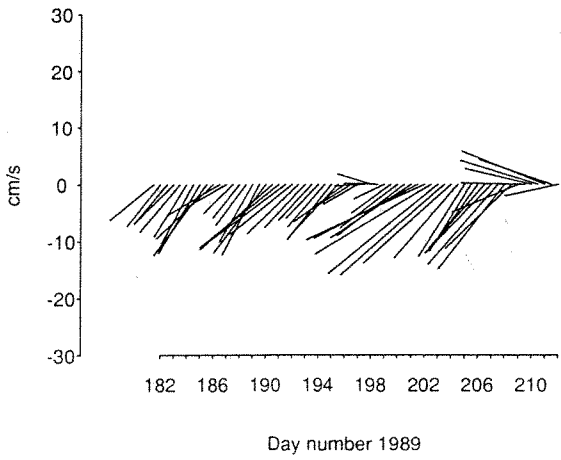
GSP-IS7-500m, MAY 1989



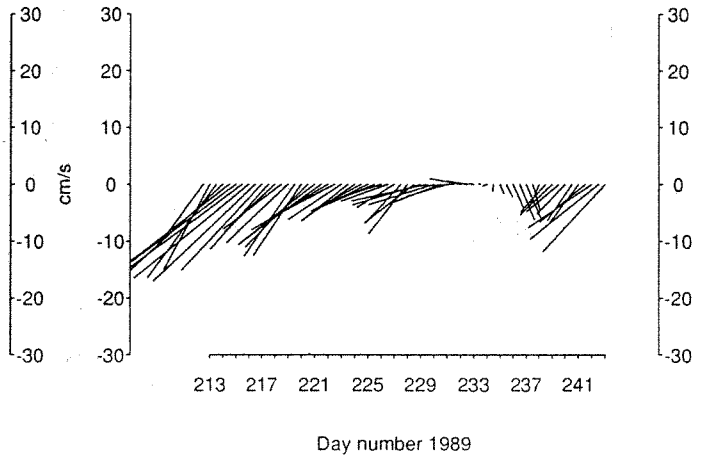
GSP-IS7-500m, JUNE 1989



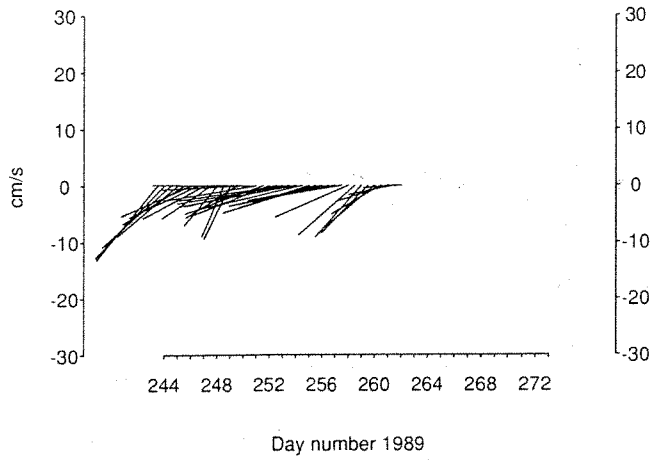
GSP-IS7-500m, JULY 1989



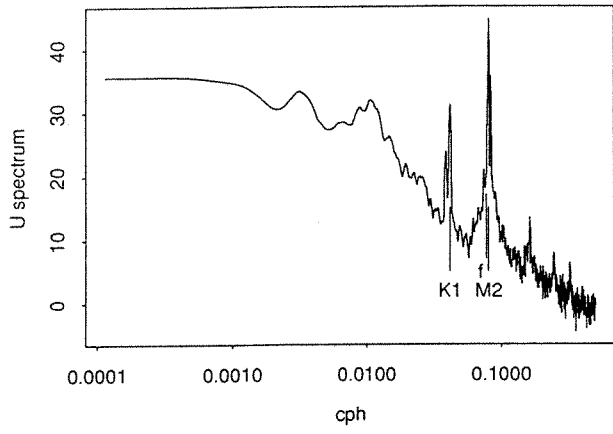
GSP-IS7-500m, AUGUST 1989



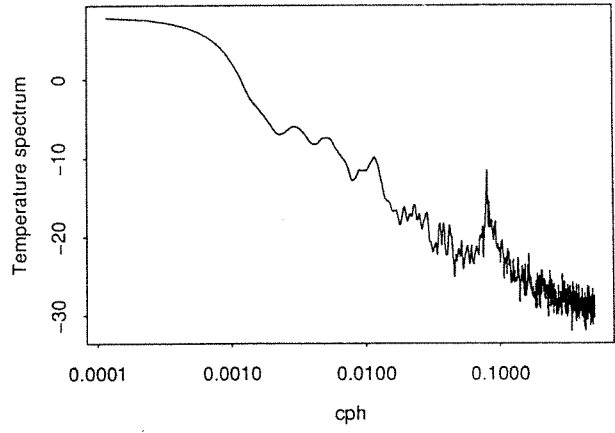
GSP-IS7-500m, SEPTEMBER 1989



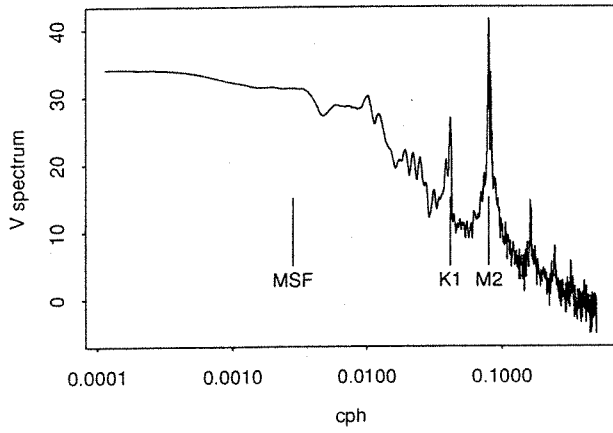
GSP-IS7-500m



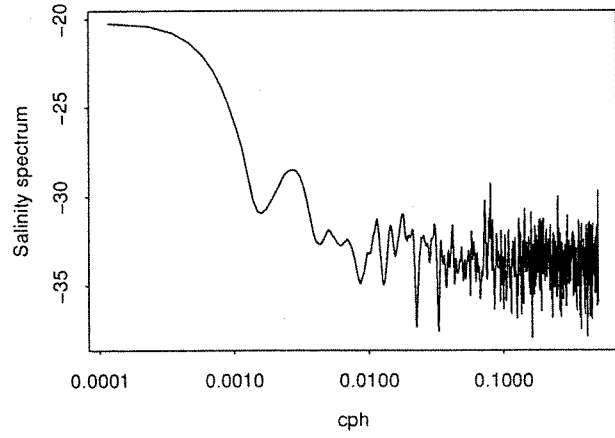
GSP-IS7-500m



GSP-IS7-500m



GSP-IS7-500m

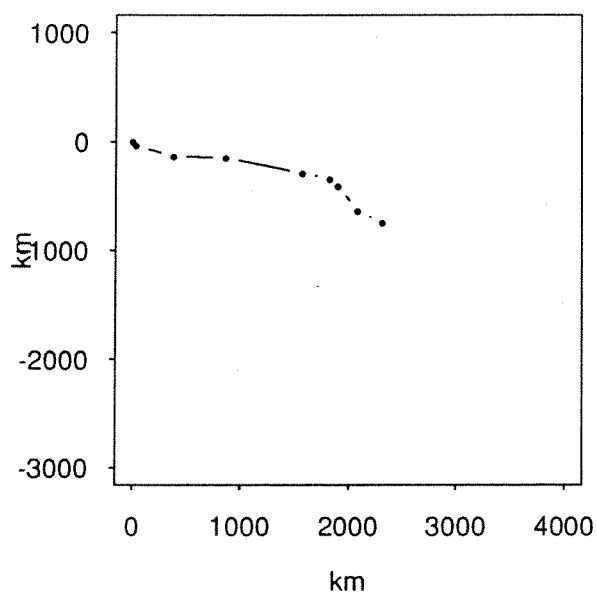


AA939401
IS8 - 123m

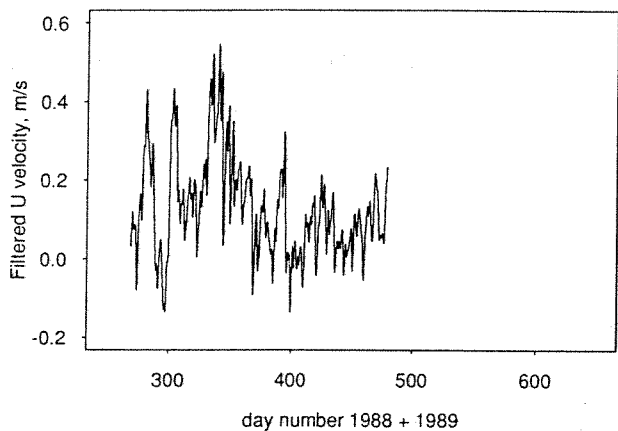
GSP-IS8-123m, Denmark Strait section, 27/9/88-25/4/89. Means and deviations of filtered current, temperature and salinity

Period (month)	U, east comp. m/s mean (st.dev.)	V, north comp. m/s mean (st.dev.)	Temperature °C mean (st.dev.)	Salinity psu mean (st.dev.)
Total:	0.126 (0.126)	-0.041 (0.069)	3.25 (1.31)	34.85 (0.12)
Sep 88	0.086 (0.021)	-0.090 (0.031)	3.87 (0.42)	34.82 (0.03)
Oct 88	0.131 (0.168)	-0.036 (0.073)	4.29 (1.47)	34.79 (0.18)
Nov 88	0.188 (0.105)	-0.005 (0.070)	3.83 (1.37)	34.84 (0.13)
Dec 88	0.264 (0.120)	-0.053 (0.052)	3.65 (1.13)	34.83 (0.12)
Jan 89	0.094 (0.091)	-0.018 (0.074)	3.78 (0.67)	34.92 (0.06)
Feb 89	0.032 (0.065)	-0.028 (0.056)	2.39 (0.51)	34.88 (0.05)
Mar 89	0.069 (0.061)	-0.087 (0.075)	2.05 (0.79)	34.81 (0.09)
Apr 89	0.098 (0.061)	-0.051 (0.040)	2.43 (0.75)	34.93 (0.06)

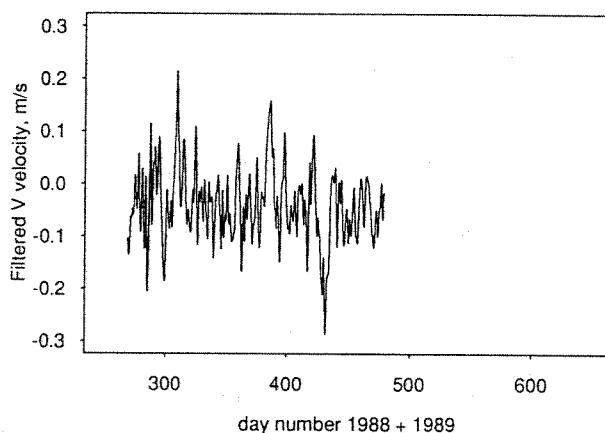
Prog.Vector GSP-IS8-123m



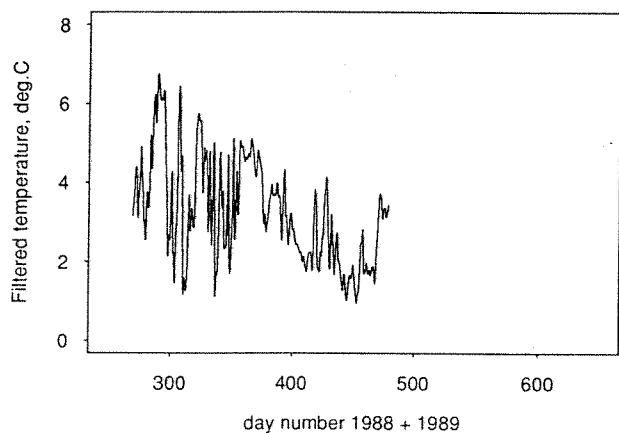
GSP-IS8-123m



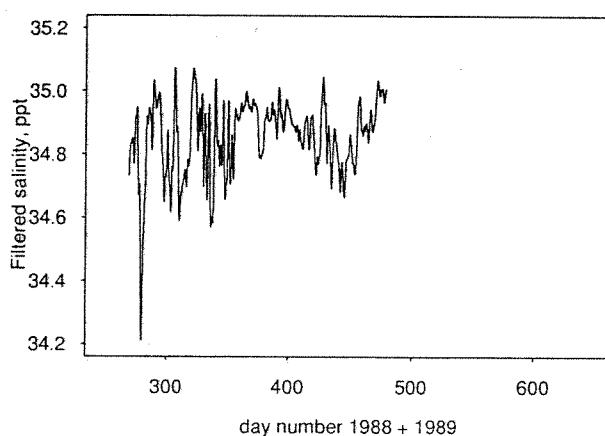
GSP-IS8-123m



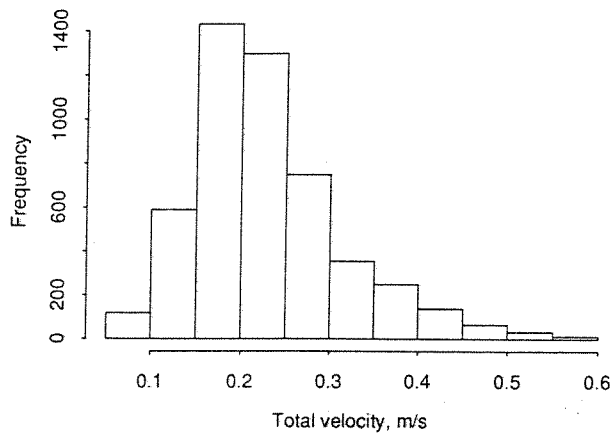
GSP-IS8-123m



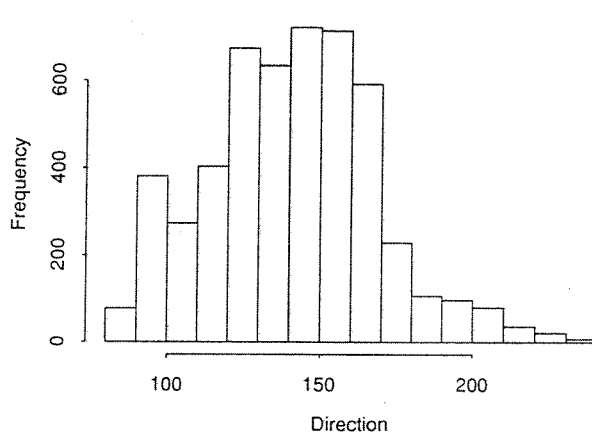
GSP-IS8-123m



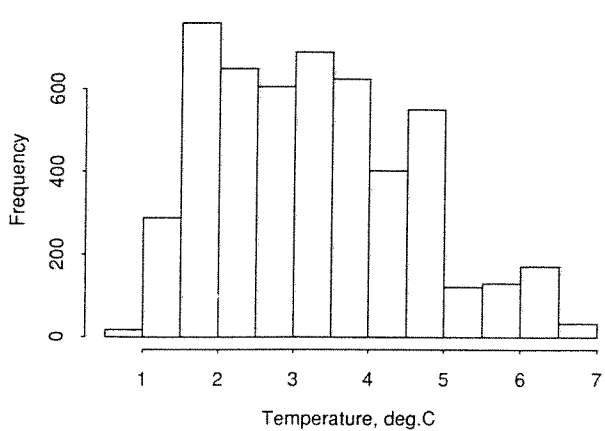
GSP-IS8-123m



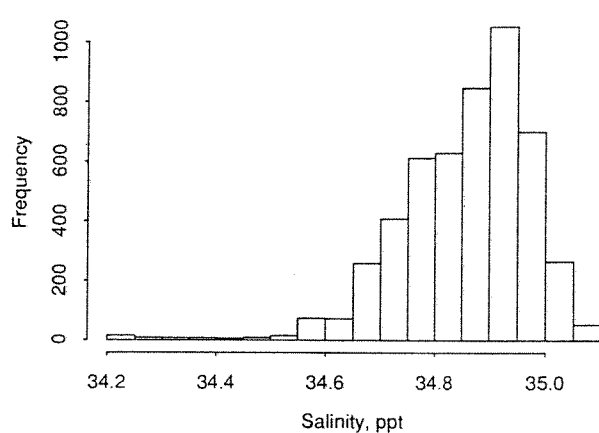
GSP-IS8-123m



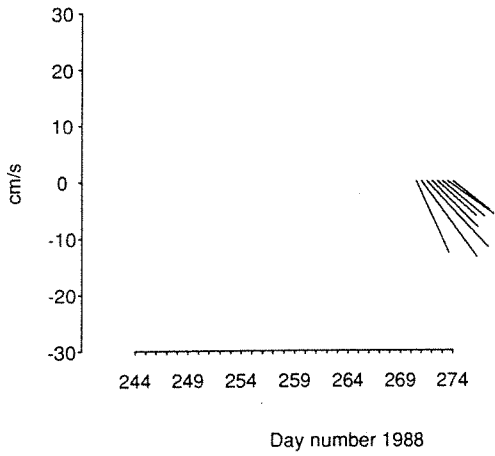
GSP-IS8-123m



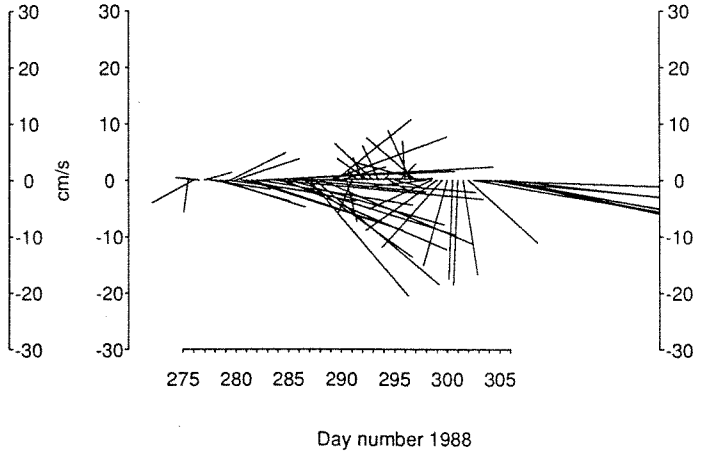
GSP-IS8-123m



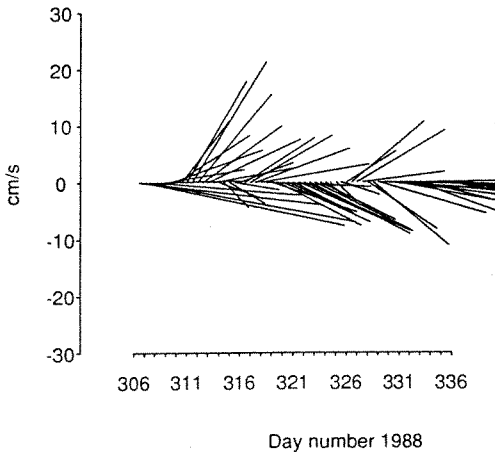
GSP-IS8-123m, SEPTEMBER 1988



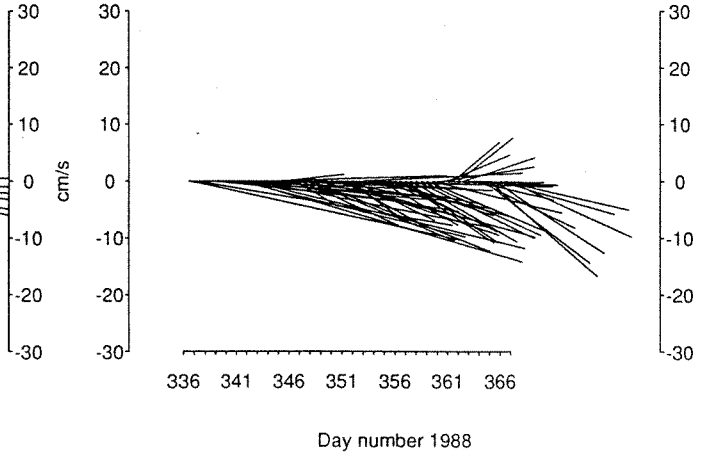
GSP-IS8-123m, OCTOBER 1988



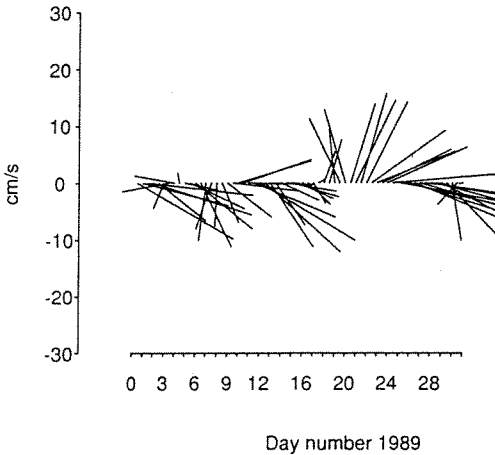
GSP-IS8-123m, NOVEMBER 1988



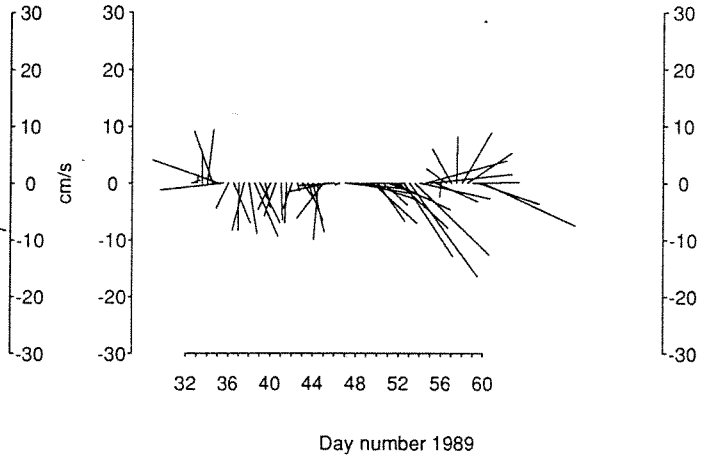
GSP-IS8-123m, DECEMBER 1988



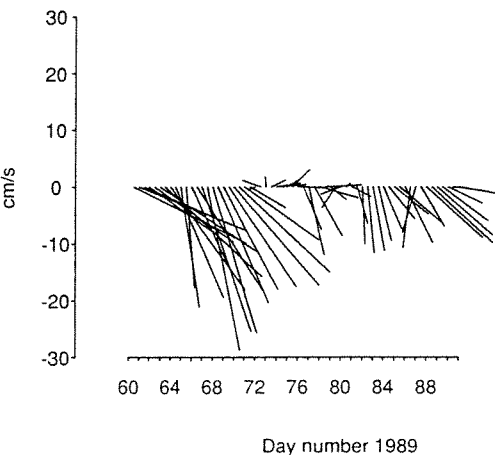
GSP-IS8-123m, JANUARY 1989



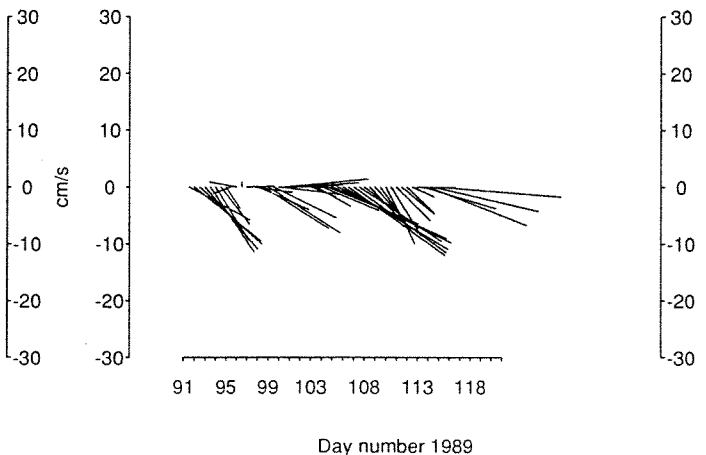
GSP-IS8-123m, FEBRUARY 1989



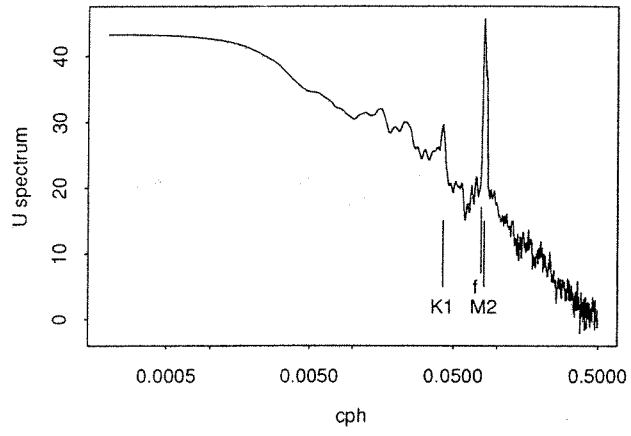
GSP-IS8-123m, MARCH 1989



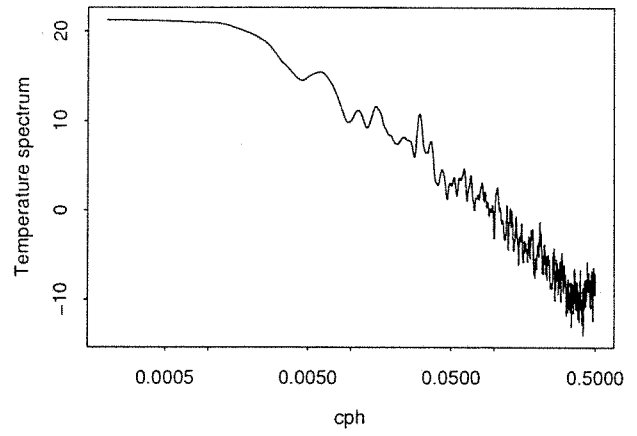
GSP-IS8-123m, APRIL 1989



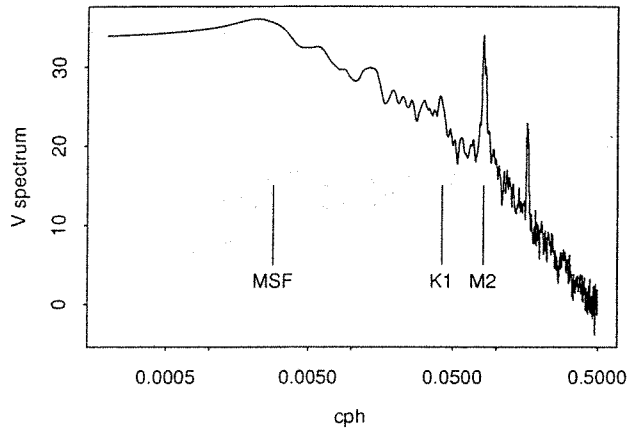
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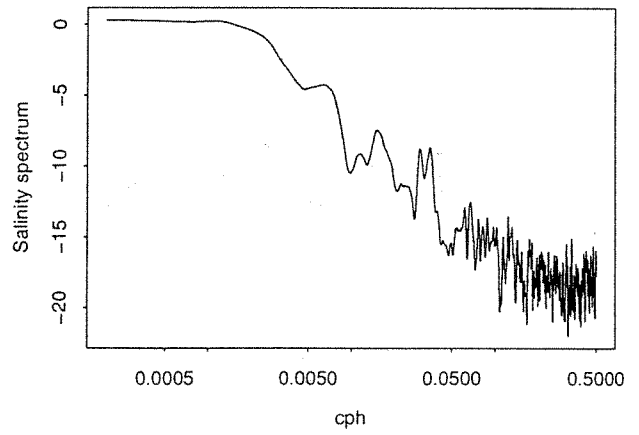
GSP-IS8-123m



GSP-IS8-123m



GSP-IS8-123m

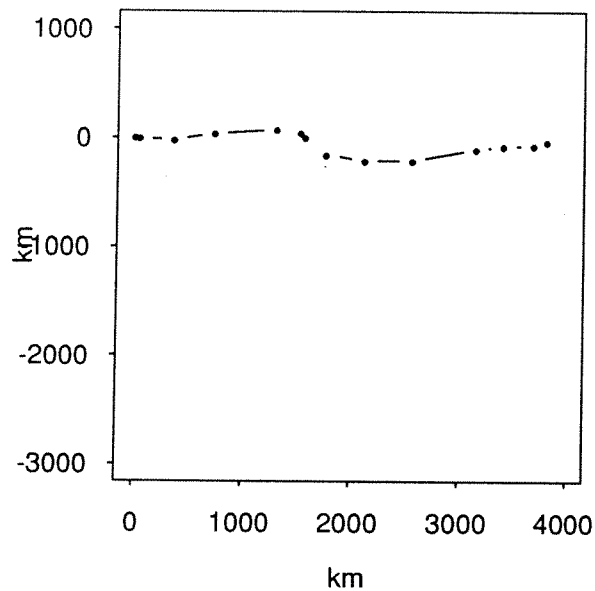


AA388111
IS8 - 198m

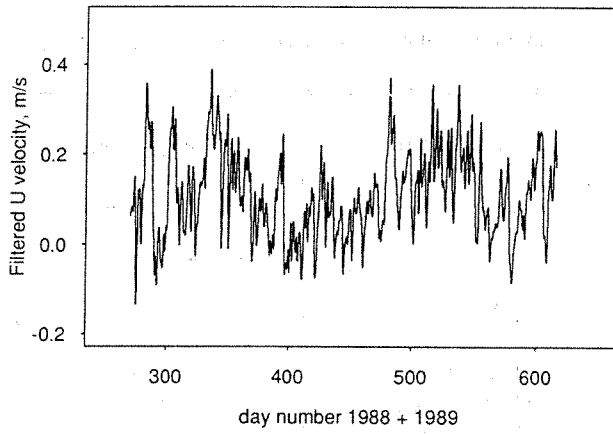
GSP-IS8-198m, Denmark Strait section, 27/9/88-8/9/89. Means and deviations of filtered current and temperature.

Period (month)	U, east comp. m/s mean (st.dev)	V, north comp. m/s mean (st.dev)	Temperature °C mean (st.dev)
Total:	0.110 (0.095)	-0.001 (0.050)	2.12 (1.39)
Sep 88	0.095 (0.028)	-0.020 (0.025)	1.73 (0.32)
Oct 88	0.103 (0.130)	-0.005 (0.053)	2.99 (1.81)
Nov 88	0.125 (0.079)	0.021 (0.045)	2.23 (1.61)
Dec 88	0.185 (0.085)	-0.010 (0.057)	2.67 (1.19)
Jan 89	0.073 (0.072)	-0.010 (0.043)	2.70 (1.17)
Feb 89	0.015 (0.056)	-0.014 (0.025)	1.02 (0.82)
Mar 89	0.062 (0.060)	-0.051 (0.052)	1.86 (0.78)
Apr 89	0.116 (0.095)	-0.017 (0.035)	1.88 (0.72)
May 89	0.143 (0.068)	0.000 (0.036)	2.23 (1.24)
Jun 89	0.195 (0.066)	0.036 (0.035)	1.75 (0.95)
Jul 89	0.084 (0.068)	0.008 (0.063)	1.97 (1.64)
Aug 89	0.090 (0.092)	0.003 (0.027)	2.25 (1.63)
Sep 89	0.154 (0.053)	0.039 (0.044)	0.83 (1.14)

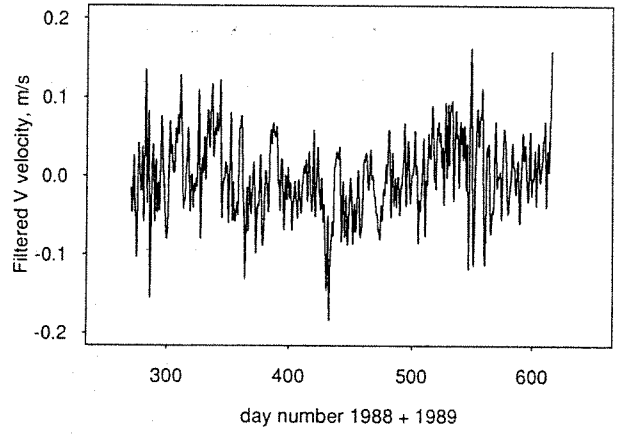
Prog.Vector GSP-IS8-198m



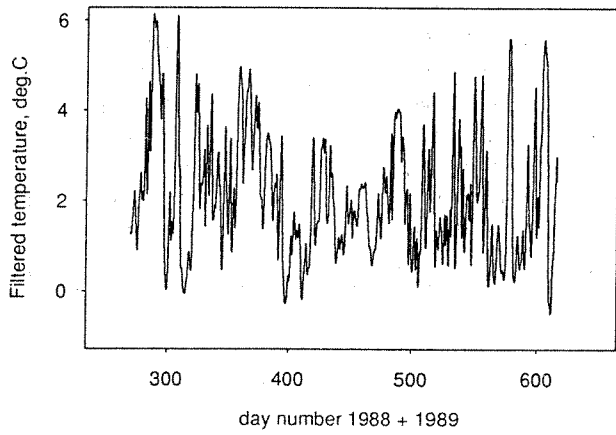
GSP-IS8-198m



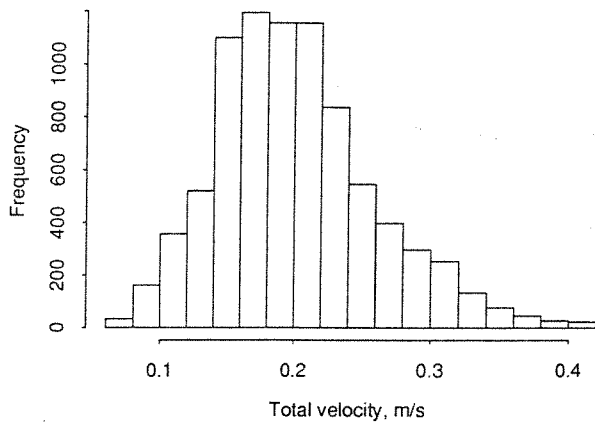
GSP-IS8-198m



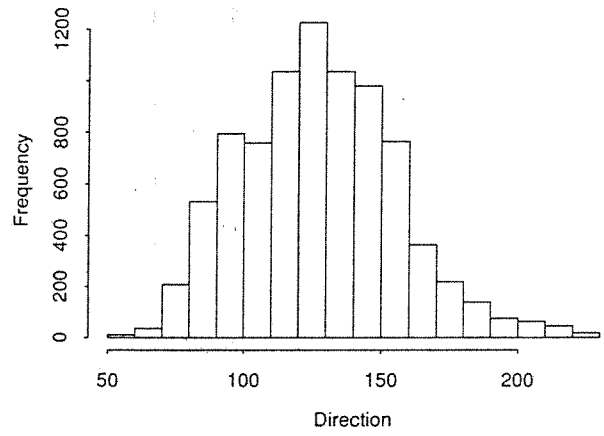
GSP-IS8-198m



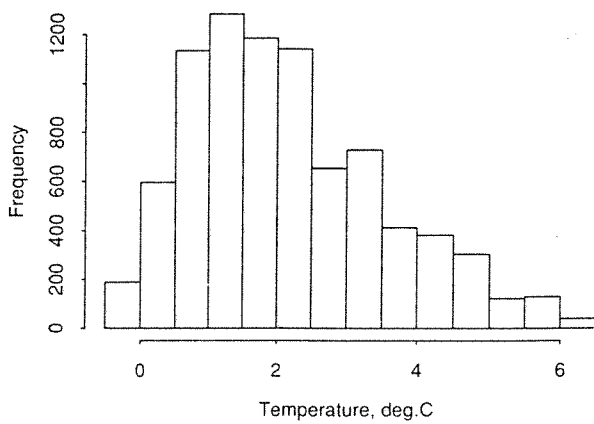
GSP-IS8-198m



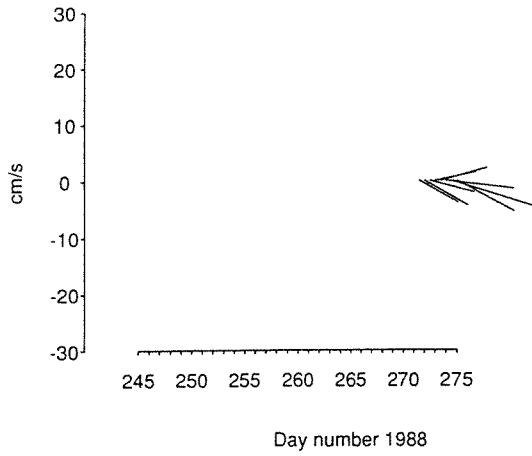
GSP-IS8-198m



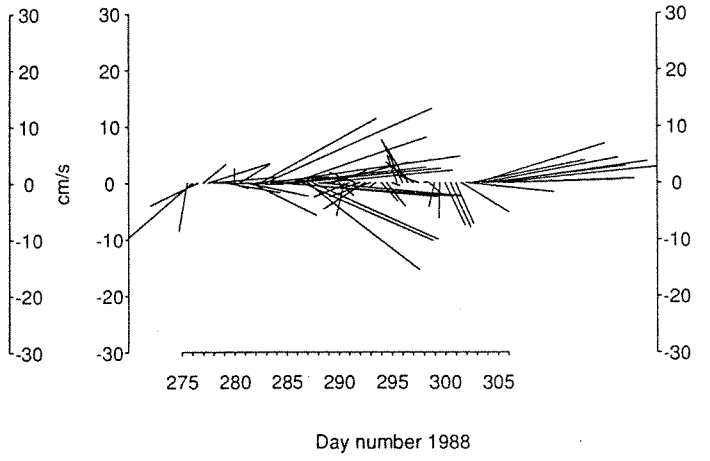
GSP-IS8-198m



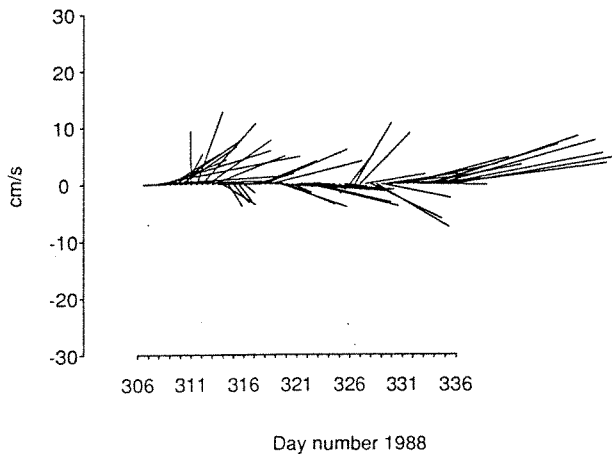
GSP-IS8-198m, SEPTEMBER 1988



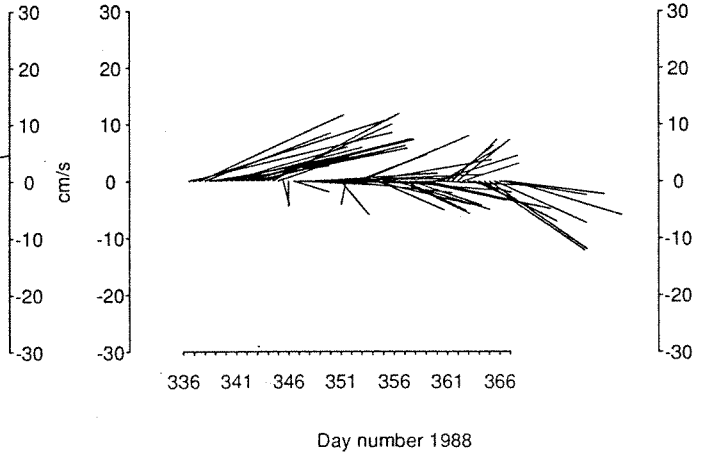
GSP-IS8-198m, OCTOBER 1988



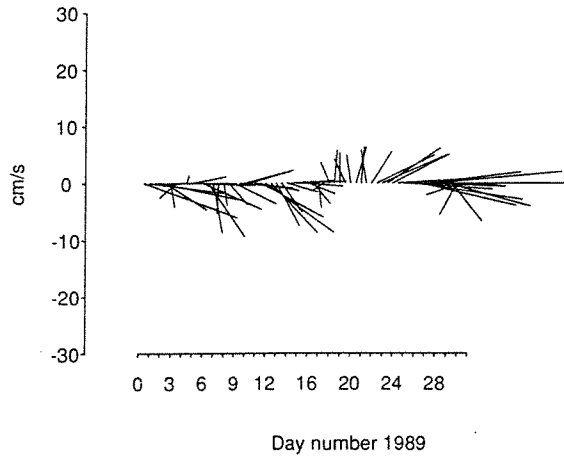
GSP-IS8-198m, NOVEMBER 1988



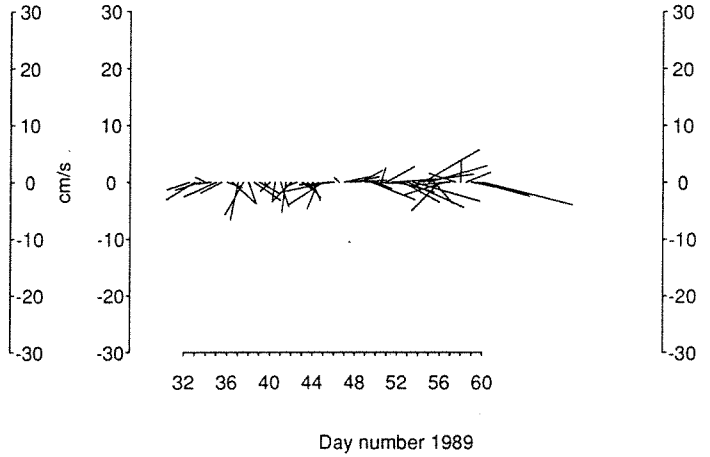
GSP-IS8-198m, DECEMBER 1988



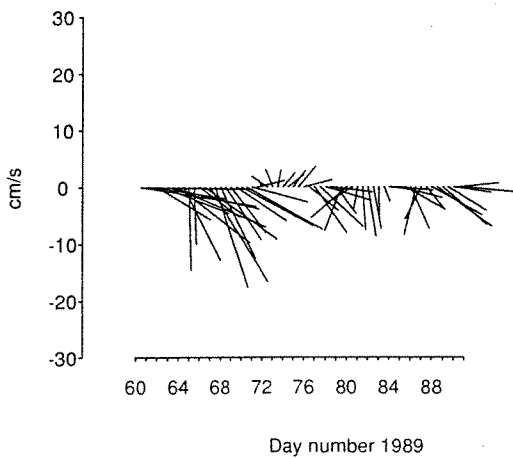
GSP-IS8-198m, JANUARY 1989



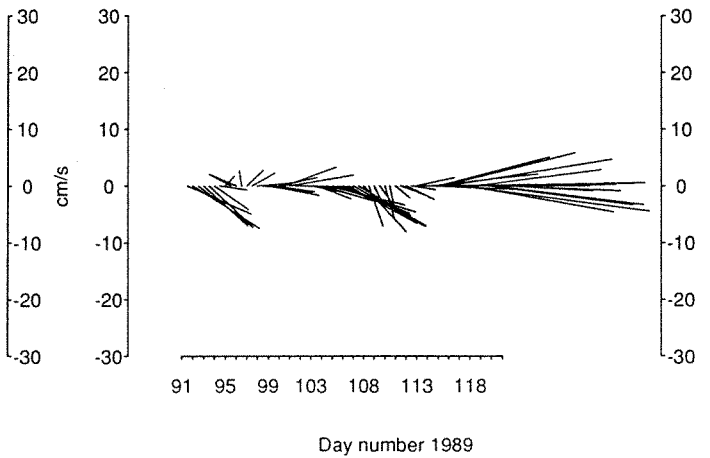
GSP-IS8-198m, FEBRUARY 1989



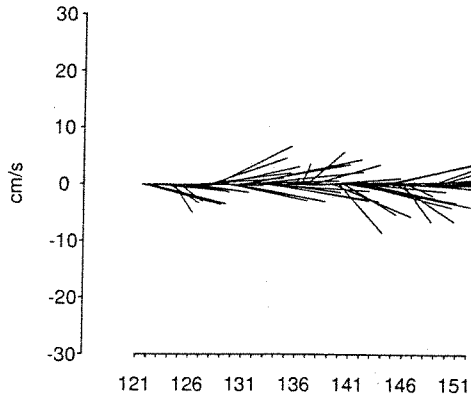
GSP-IS8-198m, MARCH 1989



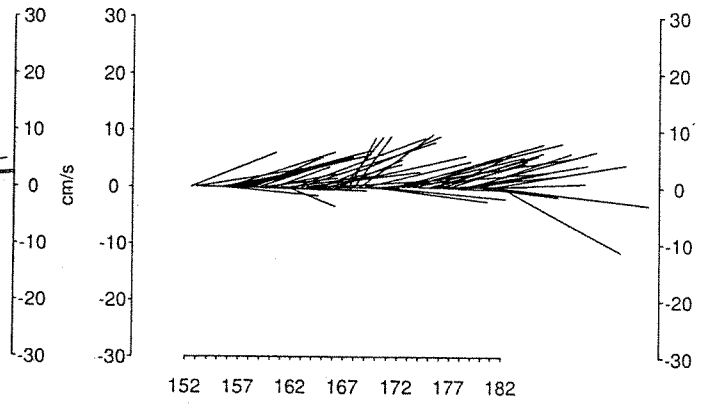
GSP-IS8-198m, APRIL 1989



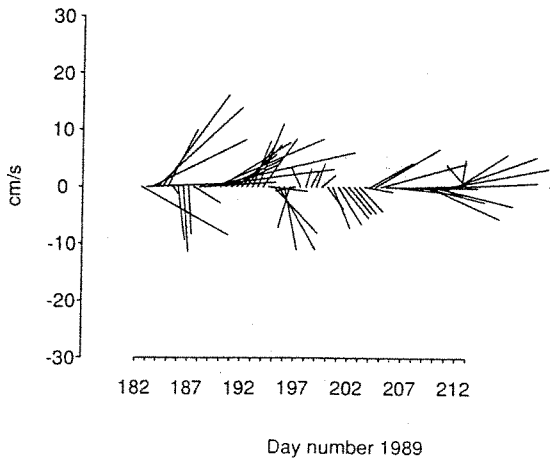
GSP-IS8-198m, MAY 1989



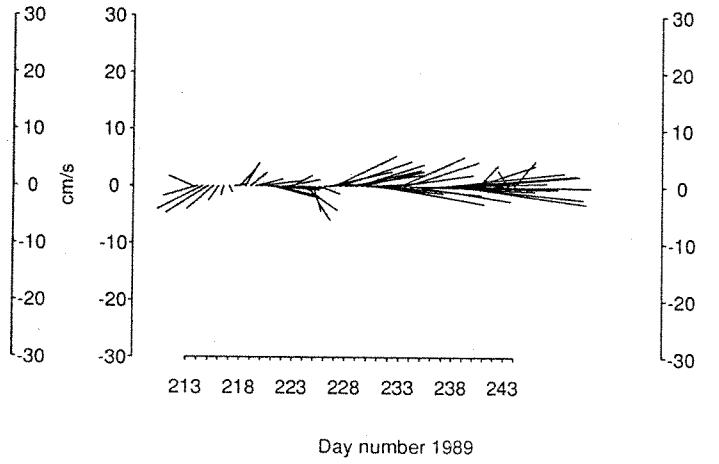
GSP-IS8-198m, JUNE 1989



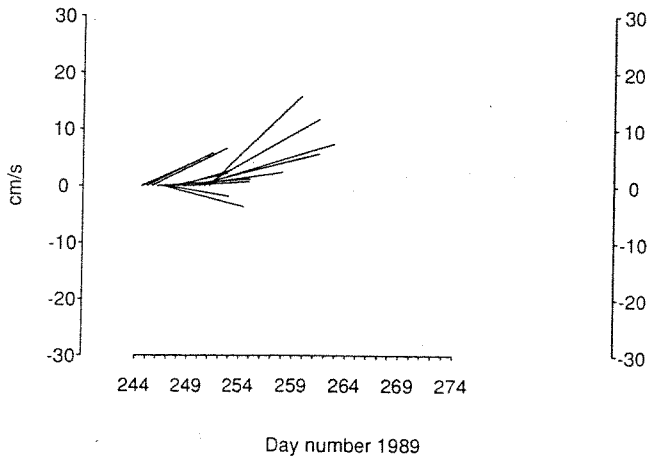
GSP-IS8-198m, JULY 1989



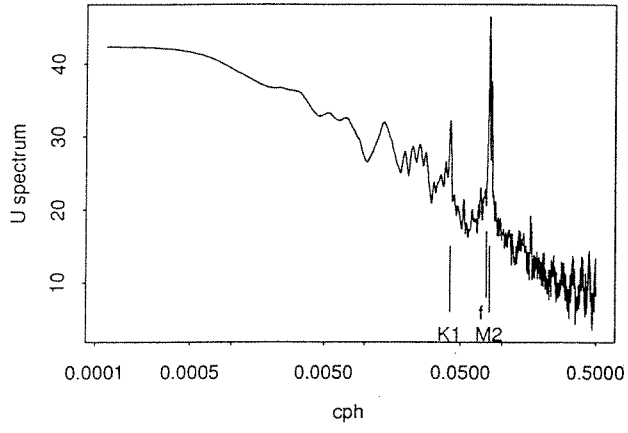
GSP-IS8-198m, AUGUST 1989



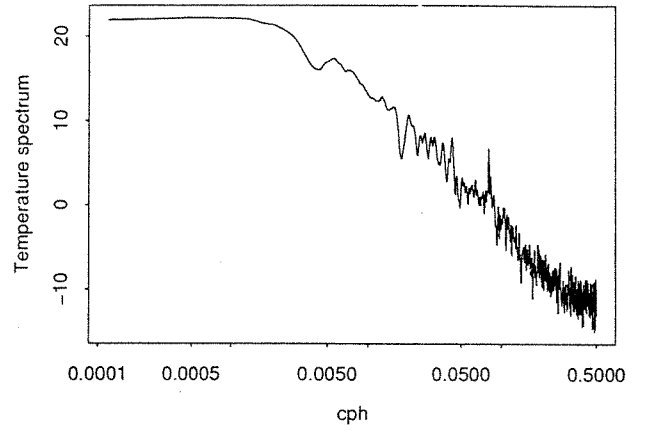
GSP-IS8-198m, SEPTEMBER 1989



GSP-IS8-198m



GSP-IS8-198m



GSP-IS8-198m

