

Berichte des
Bundesamtes für Seeschifffahrt und Hydrographie
Nr. 23

**The Subsurface Eastern Boundary Current of
the North Atlantic between 32°N and 53°N**

Data Report 1983–1995

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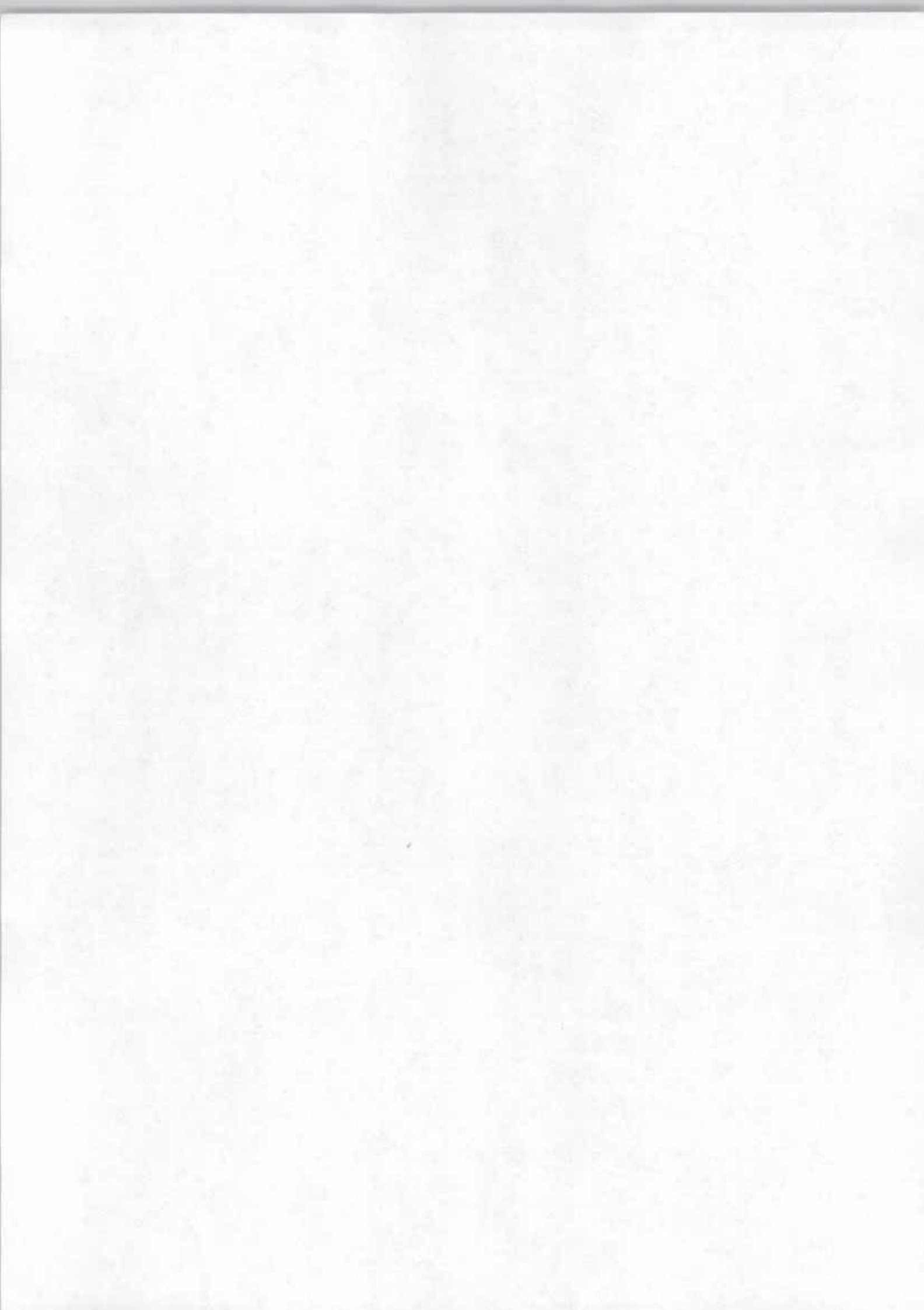


Hamburg und Rostock 2000



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I. Introduction

This data report presents current data collected by the Bundesamt für Seeschifffahrt und Hydrographie (BSH, Federal Maritime and Hydrographic Agency) between 1983 and 1995 along the European and Northwest African continental slope between 32°N and 53°N.

The mooring positions are located along the coast of the Iberian Peninsula, the northern part of the Moroccan coast (M3, R), in the Great and Little Sole Bank area (G-moorings), and west of the Irish Coast close to the Porcupine Bank (F-moorings).

The deployment periods vary between 15 and 414 days. All current metres were Aanderaa RCM 4, 5, 7, or 8. The sampling interval for the long-term moorings was 60 minutes, for the shorter deployment periods (< 6 months) the sampling interval varies between 5 and 30 minutes.

Some of the data have been discussed in previous reports^{1,2}, but this report includes all BSH current data relevant to the subsurface Eastern Boundary Current north of 32°N. Table 1 and the map in Figure 1 give the mooring positions together with deployment time, water depth, and the number of current meter records in the respective mooring.

For each mooring there is a table with mooring data followed by a table with low-passed current statistics and a progressive vector diagram (hereafter PVD) of all current meters in the mooring. For each record there is a time series plot (low-passed), an energy density spectra for the zonal and meridional current component, and an individual PVD. For the current statistics and the time series a Gaussian low-pass over 48 hours was applied to remove short-term fluctuations such as tidal and inertial movements.

The PVDs were processed from unfiltered data. The start position of the PVDs is marked by a big cross (+). The spacing of the time marks (x) depends upon the record length and is given in the text of the diagram.

The spectra are Blackman-Tukey power spectra calculated with the Singular-Spectrum-Analysis Toolkit³.

¹ Mittelstaedt, E., J. Meincke and Holger Klein, 1996: WOCE-Current measurements: The ACM8 array. Data Report. Berichte des Bundesamtes für Seeschifffahrt und Hydrographie Nr.8, 150pp.

² Hagen, E. et al., 1994: Hydrographische Untersuchungen im Ostrandstromsystem vor Portugal und Marokko 1991 - 1992. Berichte des Bundesamtes für Seeschifffahrt und Hydrographie Nr.2, 50pp.

³ The Singular-Spectrum-analysis Toolkit User's Guide. Department of Atmospheric Sciences, University of California, Los Angeles, 1995, 50pp.

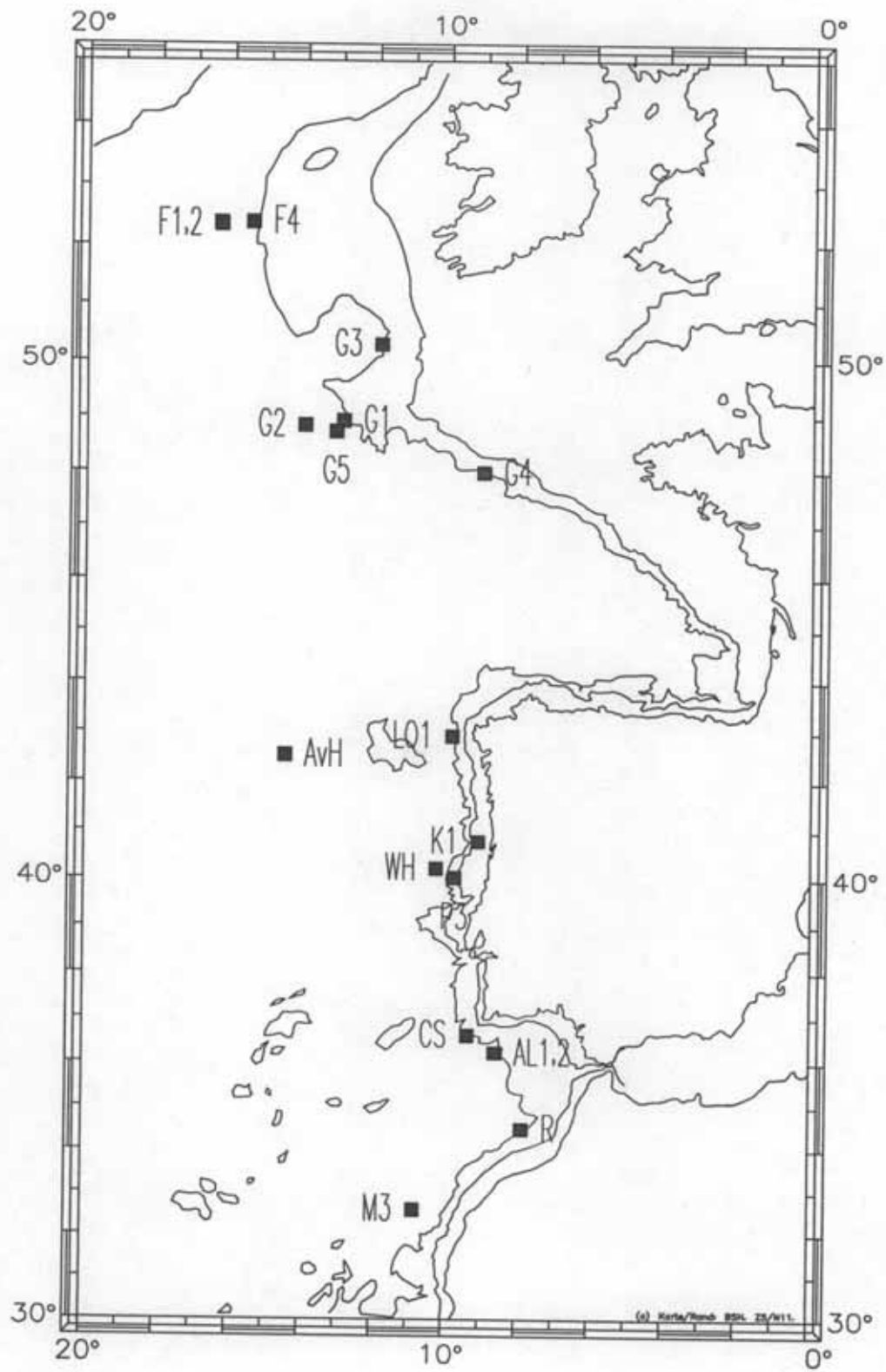


Figure 1: Mooring positions. Isobaths are given for 200 m and 2000 m depth.

Table1: Mooring positions

mooring idendifier	position		deployment time	water depth	nc
-	-	-	-	m	-
F1	52°20.4 'N	16°20.8 'W	19.09.91 - 30.08.92	3510	3
F2	52°22.7 'N	16°21.7 'W	30.08.92 - 11.09.93	3481	5
F4	52°23.2 'N	15°28.5 'W	23.05.94 - 31.05.95	2554	4
G1	48°55.8 'N	12°55.8 'W	16.06.93 - 5.08.94	2540	3
G2	48°50.8 'N	13°59.5 'W	17.06.93 - 15.02.94	4530	2
G3	50°17.4 'N	11°53.7 'W	13.06.94 - 3.07.94	2100	5
G4	47°59.3 'N	9° 2.2 'W	14.06.94 - 8.07.94	2500	6
G5	48°43.9 'N	13° 8.0 'W	6.08.95 - 21.08.95	3900	5
LO1	42°55.54'N	9°50.88'W	14.03.91 - 19.01.92	1945	1
AvH	42°32.80'N	14°28.60'W	1.10.89 - 9.08.90	5165	8
K1	40°47.4 'N	9°06.2 'W	19.03.91 - 13.04.91	105	3
WH	40°13.3 'N	10°15.7 'W	15.08.90 - 27.08.91	3900	2
P3	40° 1.8 'N	9°45.2 'W	30.07.83 - 14.01.84	910	4
CS	36°37.1 'N	9°22.0 'W	28.03.92 - 19.05.92	1960	6
AL1	36°14.16'N	8°36.12'W	20.10.91 - 14.01.92	2036	6
AL2	36°14.20'N	8°35.10'W	14.01.92 - 19.05.92	1998	6
R	34°29.10'N	7°50.8 'W	20.10.91 - 18.05.92	1995	5
M3	32°35.72'N	10°49.18'W	18.01.92 - 25.05.92	3979	1

nc = number of current meter records per deployment

II. Data processing

The Aanderaa RCM raw data are converted to physical data using individual calibration data for each current meter. The BSH calibrates its current meters regularly performing tests for rotor speed and compass deviation.

Current statistics are calculated from data smoothed over 48 hours with a Gaussian low-pass filter to remove tidal currents. The mean values of the zonal (u) and meridional (v) components of current vector V are given together with the 95% confidence interval assuming a Gaussian normal distribution:

$$\text{mean value} \pm 1.96 \frac{\sqrt{u_i' u_i'}}{\sqrt{n-1}}, \quad n = \text{number of cycles}$$

The Lagrangian statistics were calculated according to Taylor (1921)⁴.

Symbols and abbreviations used in the tables:

dir mean current direction

$$\text{dir}(\bar{u}, \bar{v}) = \text{atan2}(\bar{u}, \bar{v}) \times \frac{180}{\pi}$$

k_M mean kinetic energy

$$k_M = \frac{1}{2}(\bar{u}^2 + \bar{v}^2)$$

k_E eddy kinetic energy

$$k_E = \frac{1}{2}(\overline{u'u'} + \overline{v'v'})$$

$K_{x,y}$ eddy diffusivity

$$K_i = \overline{u_i' u_i'} T_i$$

$L_{x,y}$ Lagrangian length scale

$$L_i = \sqrt{\overline{u_i' u_i'}} T_i$$

mag magnitude of current vector V

RCM recording current meter

⁴ Taylor, G.I., 1921: Diffusion by continuous movements. Proc. London Math. Soc., **A20**, 196-211.

si sampling interval
sd sampling depth

$T_{x,y}$ Lagrangian integral time scale

$$T_i = \int_0^{\infty} R_i(\tau) d\tau \quad , \text{with} \quad R_i = \frac{1}{u_i' u_i' T_{\max}} \int_0^{T_{\max}} u_i'(t) u_i'(t + \tau) dt$$

\bar{u}, \bar{v} zonal and meridional component of V

$\overline{u'u'}$ zonal variance

$\overline{u'v'}$ covariance

$\overline{v'v'}$ meridional variance

V mean current vector

F1, F2, F4

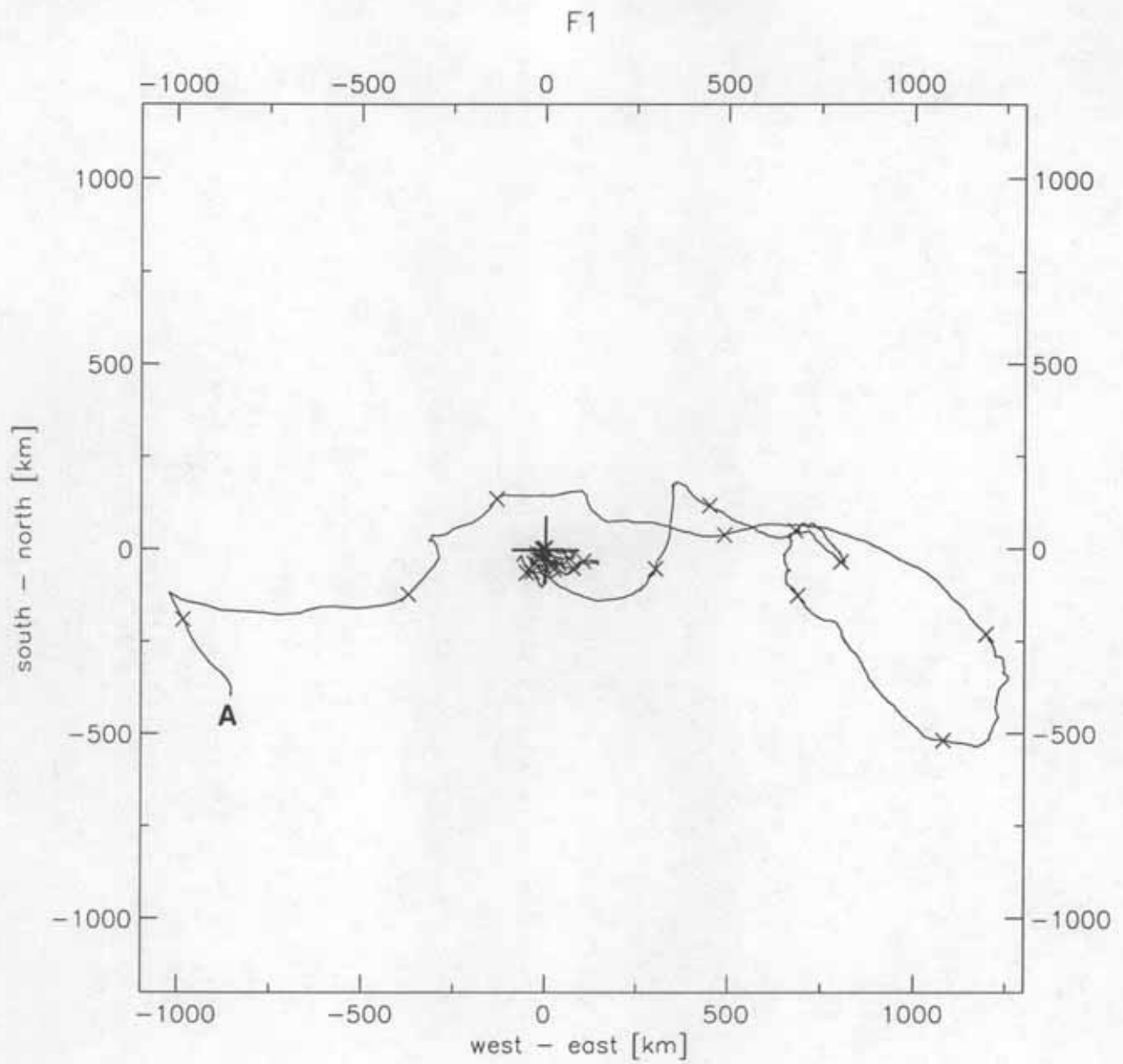
Mooring Data F1, F2, and F4

current meter	sampl. depth	mab	record no.	sampling time	
-	m	m	-	UTC	
F1: 19.9.91 - 30.8.92, 52° 20.4'N, 16° 20.8'W, si = 60'					
RCM5 6784	210	3300	92067	19.9.91 14:00 - 30.8.92	6:00
RCM5 6789	3010	500	92063	19.9.91 14:00 - 30.8.92	6:00
RCM5 6822	3460	50	92062	19.9.91 14:00 - 19.2.92	12:00
F2: 30.8.92 - 11.9.93, 52° 22.7'N, 16° 21.7'W, si = 60'					
RCM4 996	181	3300	93049	30.8.92 18:00 - 5.8.93	8:00
RCM5 6890	781	2700	93047	30.8.92 18:00 - 5.9.93	7:00
RCM5 6969	1981	1500	93046	30.8.92 18:00 - 11.9.93	17:00
RCM8 10082	2981	200	93045	30.8.92 18:00 - 4.9.93	1:00
RCM8 9358	3431	50	93044	30.8.92 18:00 - 5.8.93	23:00
F4: 23.5.94 - 31.5.95, 52° 23.2'N, 15° 28.5'W, si = 60'					
RCM5 6968	853	1701	95023	23.5.94 10:00 - 31.5.95	7:00
RCM5 6835	1255	1299	95024	23.5.94 10:00 - 31.5.95	7:00
RCM5 6969	2057	497	95025	23.5.94 10:00 - 31.5.95	7:00
RCM5 6890	2504	50	95026	23.5.94 10:00 - 19.5.95	16:00

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

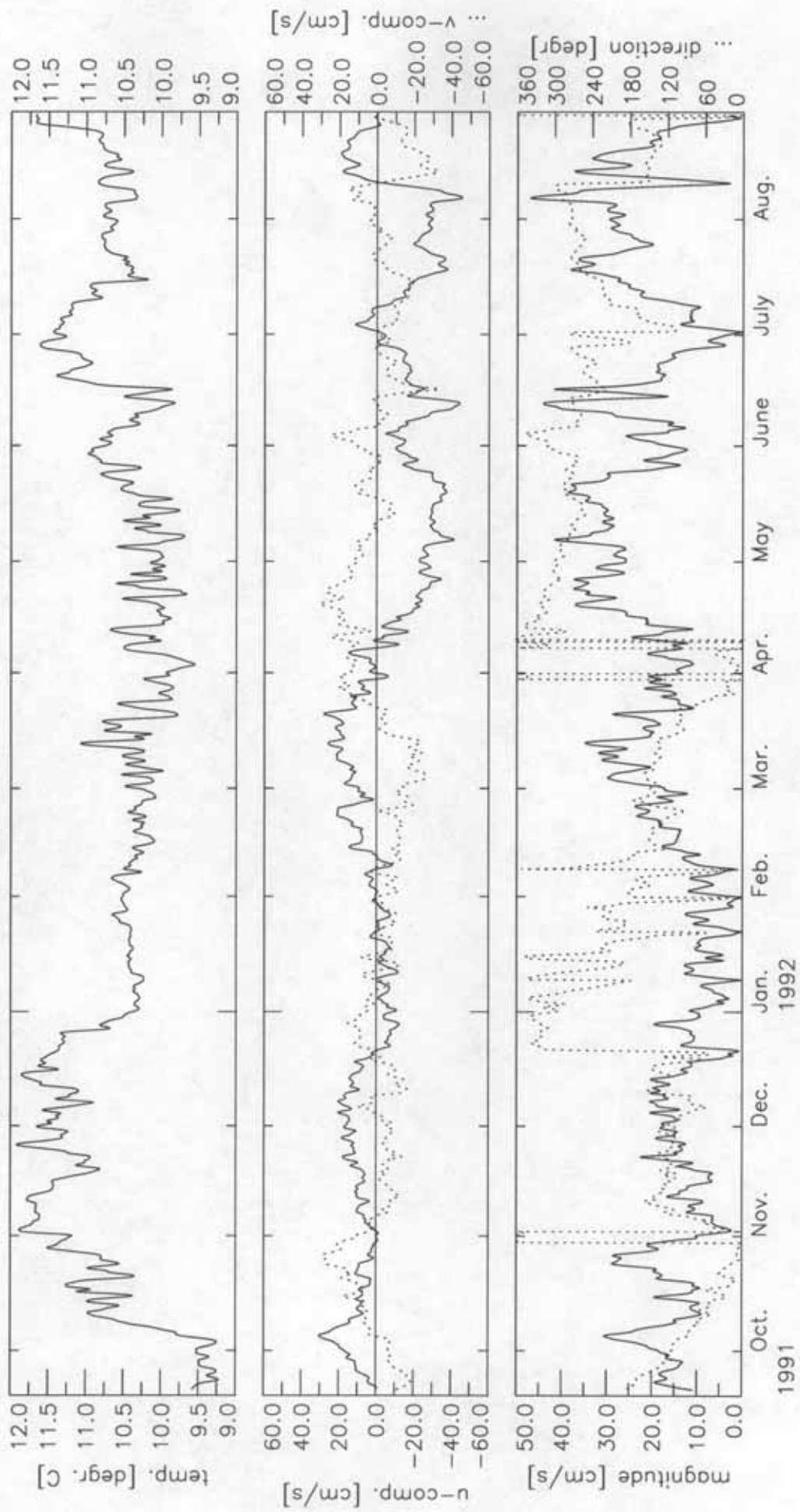
Id	saml. depth	rec. length	\bar{u} \bar{v}	cm/s	mag V	cm/s	$\frac{\overline{u'u'}}{\overline{v'v'}}$	cm ² /s ²	$\overline{u'v'}$	cm ² /s ²	k_E k_M	cm ² /s ²	days	T_x T_y	km	L_x L_y	K_x K_y	cm ² /sx10 ⁶	dir	°
F1:	210	345	-2.8±0.26	20.2	286.8	-64.0	214.2	21.4	313.6	531.2	246									
	3010	345	-1.3±0.36	3.1	141.6	5.0	9.1	93.4	111.1	249										
	3460	152	-0.2±0.06	4.9	8.7	9.0	1.9	4.9	1.4	214										
F2:	181	340	-0.1±0.07	0.3	9.3	<0.1	18.1	7.9	37.6	20.6	240									
	781	370	-0.4±0.18	6.3	30.1	-0.4	0.2	1.8	3.8	0.9	228									
	1981	377	-0.5±0.08	0.7	6.1	13.7	76.8	7.5	58.5	52.5	264									
F3:	181	340	-2.5±0.19	13.9	80.6	13.7	76.8	7.5	58.5	52.5	240									
	781	370	-1.4±0.19	2.8	73.0	4.1	4.1	21.8	161.3	137.9	228									
	1981	377	-1.2±0.15	10.5	50.5	12.8	49.1	10.0	61.3	43.5	195									
F4:	181	340	-1.1±0.14	1.6	47.7	-0.2	21.2	8.6	36.7	18.2	264									
	781	369	-2.2±0.14	6.8	24.5	1.6	2.5	25.5	93.8	39.9	195									
	1981	369	-0.2±0.05	2.2	18.1	0.4	6.4	2.1	4.9	1.3	233									
F5:	181	340	-0.8±0.06	0.9	5.5	2.5	13.5	1.8	6.8	1.6	233									
	781	340	-0.7±0.10	6.9	20.0	2.5	13.5	1.8	6.8	3.0	233									
	1981	340	-0.5±0.08	0.9	13.5	0.4	0.4	2.6	8.3	3.0	233									
F6:	853	371	0.3±0.08	7.1	16.2	8.4	22.3	26.6	92.5	37.2	174									
	1255	371	-2.4±0.08	2.5	28.5	12.0	3.0	20.0	92.4	49.3	189									
	2057	371	-0.8±0.09	8.3	19.8	12.0	32.1	24.1	92.5	41.1	189									
F7:	853	371	-4.8±0.14	4.8	44.3	-0.7	11.6	15.5	89.1	59.3	199									
	1255	371	-0.6±0.06	7.4	7.2	20.6	20.6	7.7	17.8	4.8	199									
	2504	359	-1.8±0.12	1.9	34.1	1.0	1.7	11.8	59.5	34.7	345									
F8:	853	371	-0.8±0.02	8.1	1.1	1.0	5.0	1.9	1.7	0.2	345									
	1255	371	2.8±0.06	2.9	8.9	4.3	4.3	1.8	4.7	1.4	345									
	2057	371	2.8±0.06	2.9	8.9	4.3	4.3	1.8	4.7	1.4	345									



Time marks (x) are given every 720 hours

- A** α 92067; sd= 210 m; 19. 9.1991 14:00 - 30. 8.1992 6:00 (UTC)
B α 92063; sd= 3010 m; 19. 9.1991 14:00 - 30. 8.1992 6:00 (UTC)
C α 92062; sd= 3460 m; 19. 9.1991 14:00 - 19. 2.1992 12:00 (UTC)

F1, record no. = a92067, sampling depth = 210 m

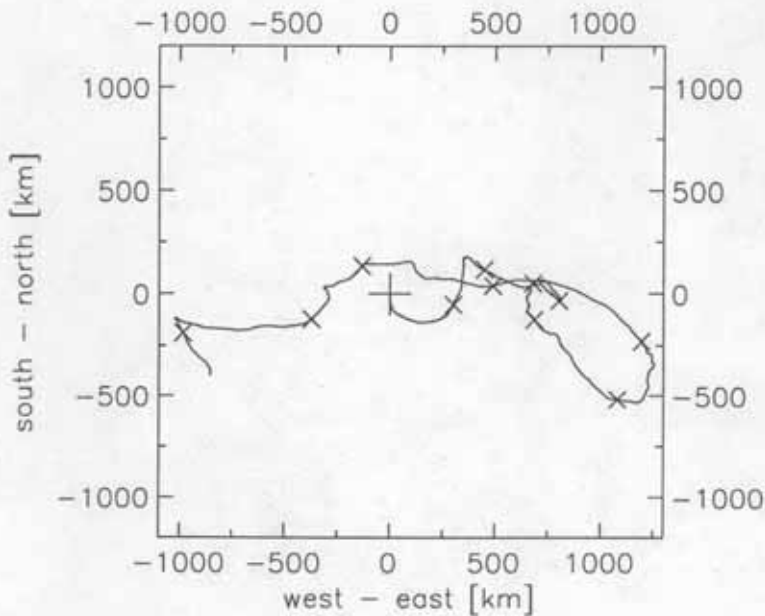
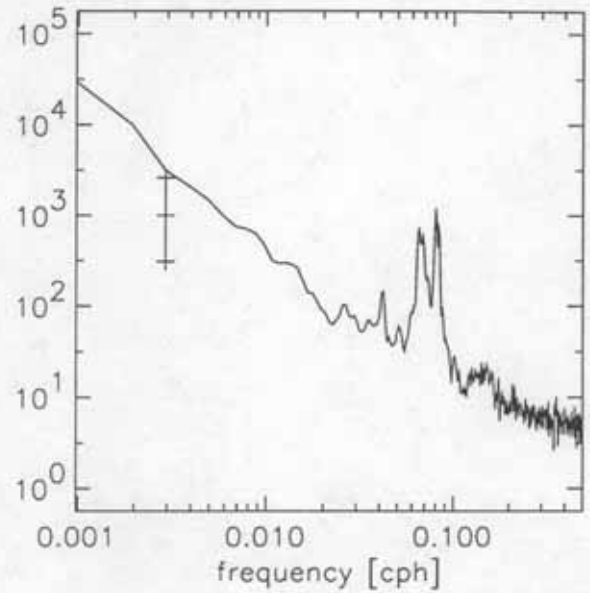
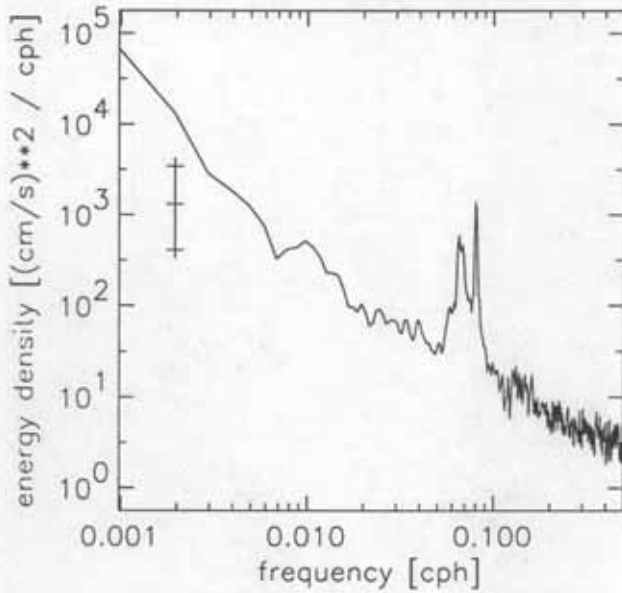


F1

record no: a92067, sampling interval = 60.0 minutes

u-component (zonal)

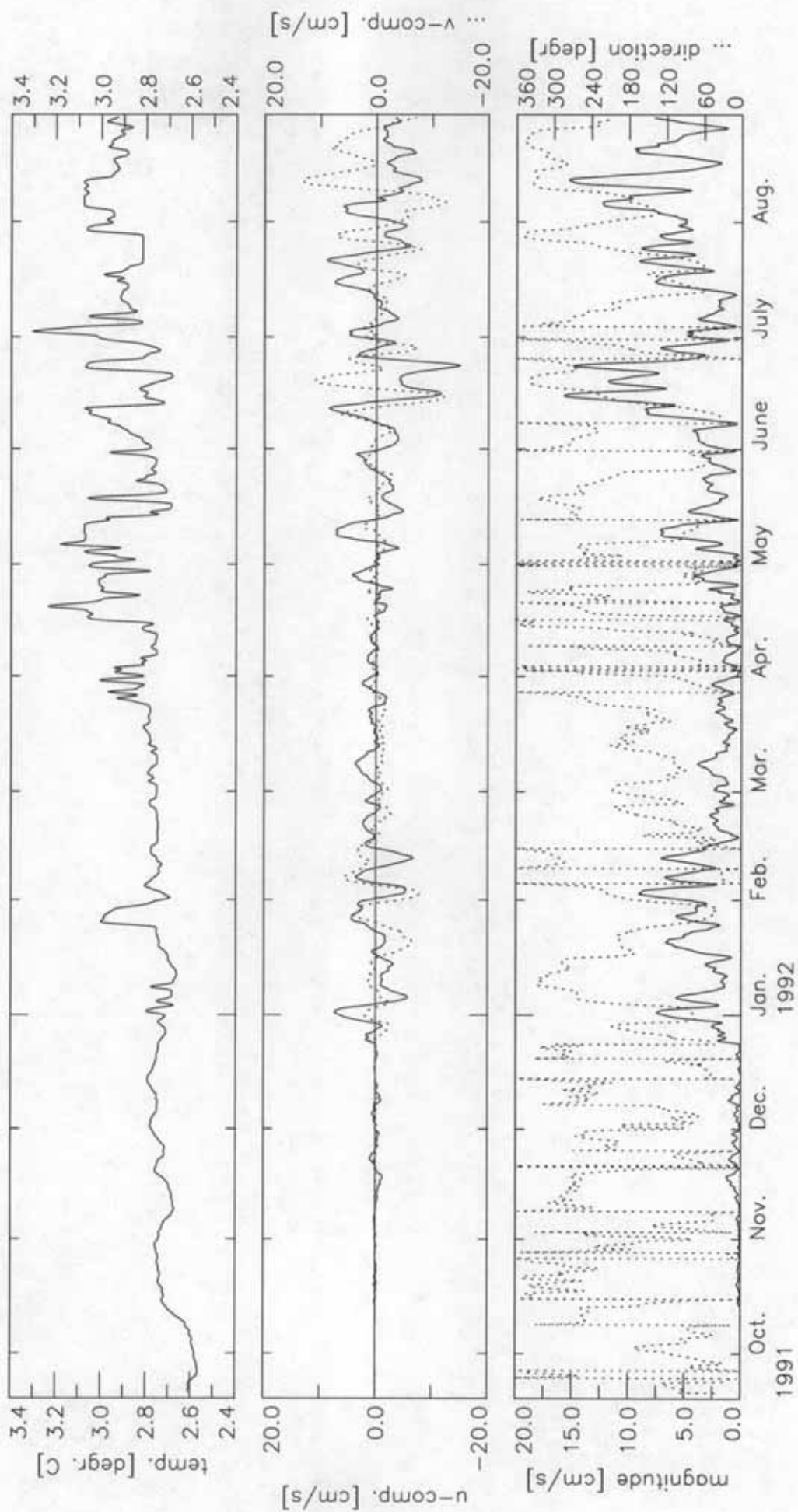
v-component (meridional)



19. 9.1991 14:00 - 30. 8.1992 6:00 (UTC)

Time marks (x) are given every 720 hours

F1, record no. = a92063, sampling depth = 3010 m

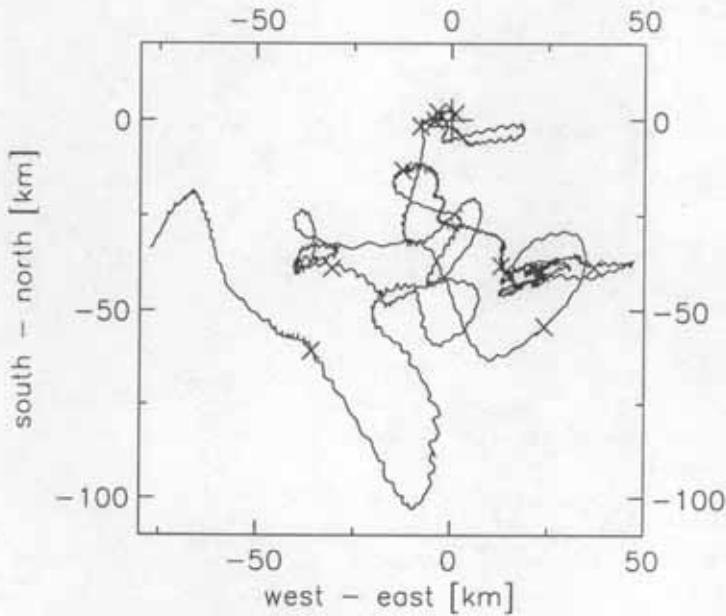
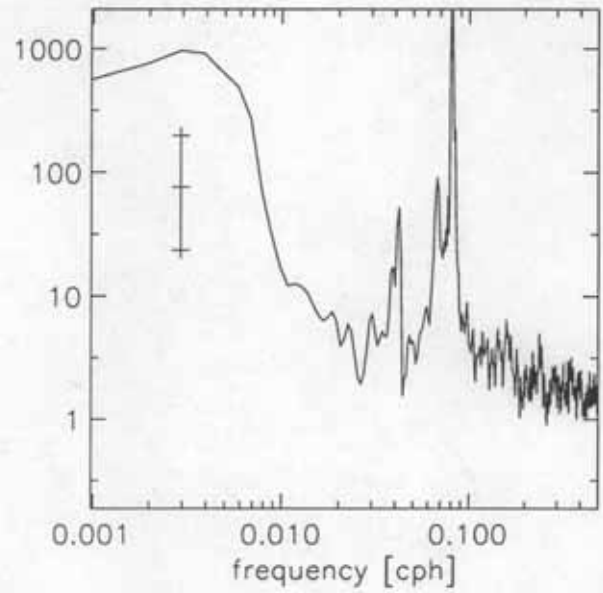
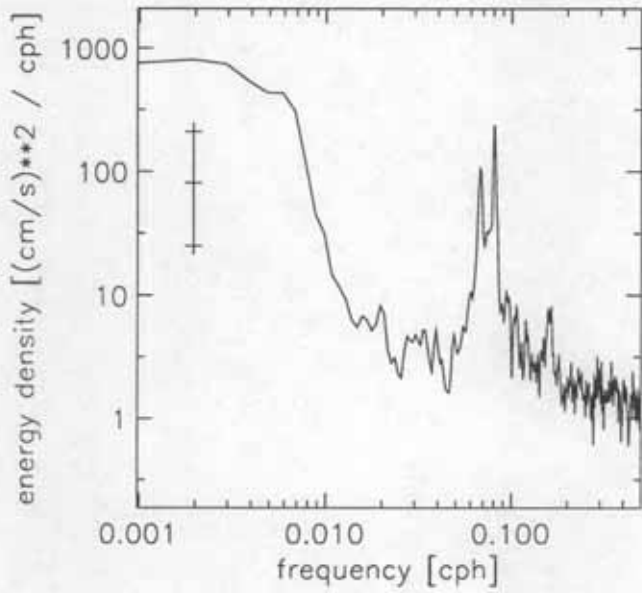


F1

record no: a92063, sampling interval = 60.0 minutes

u-component (zonal)

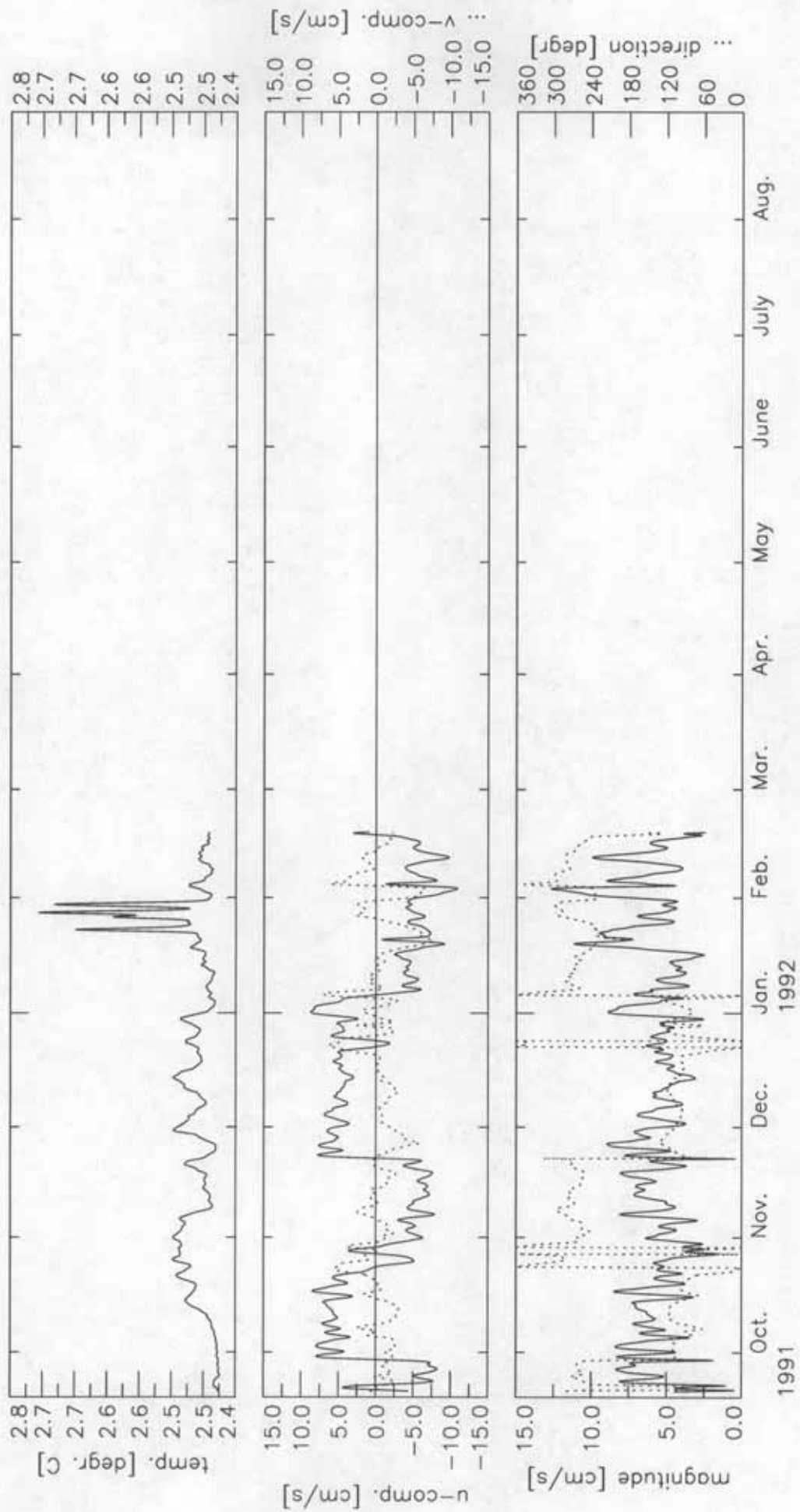
v-component (meridional)



19. 9.1991 14:00 - 30. 8.1992 6:00 (UTC)

Time marks (x) are given every 720 hours

F1, record no. = a92062, sampling depth = 3460 m

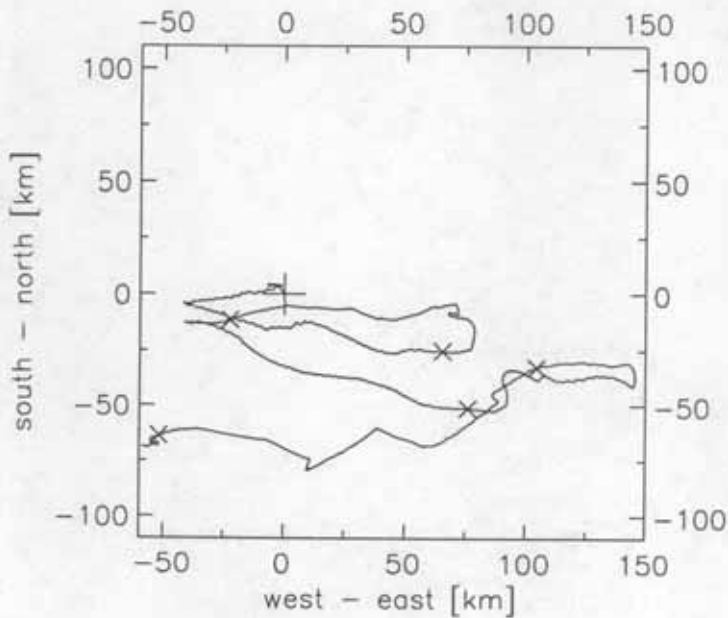
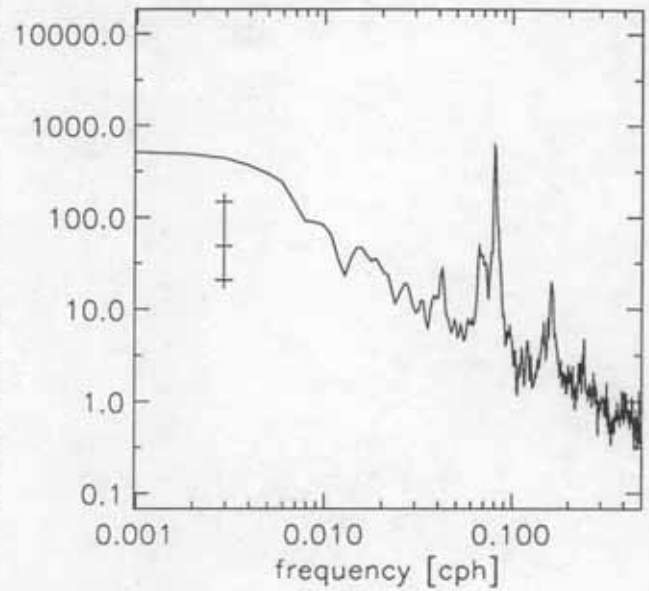
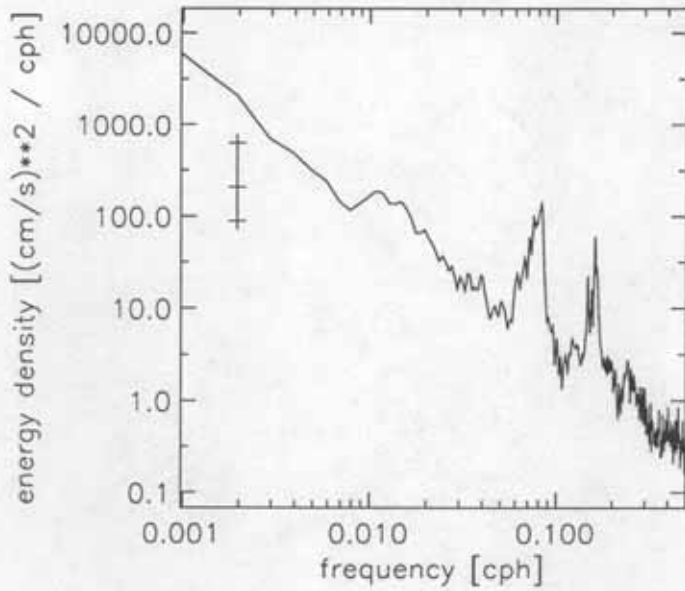


F1

record no: a92062, sampling interval = 60.0 minutes

u-component (zonal)

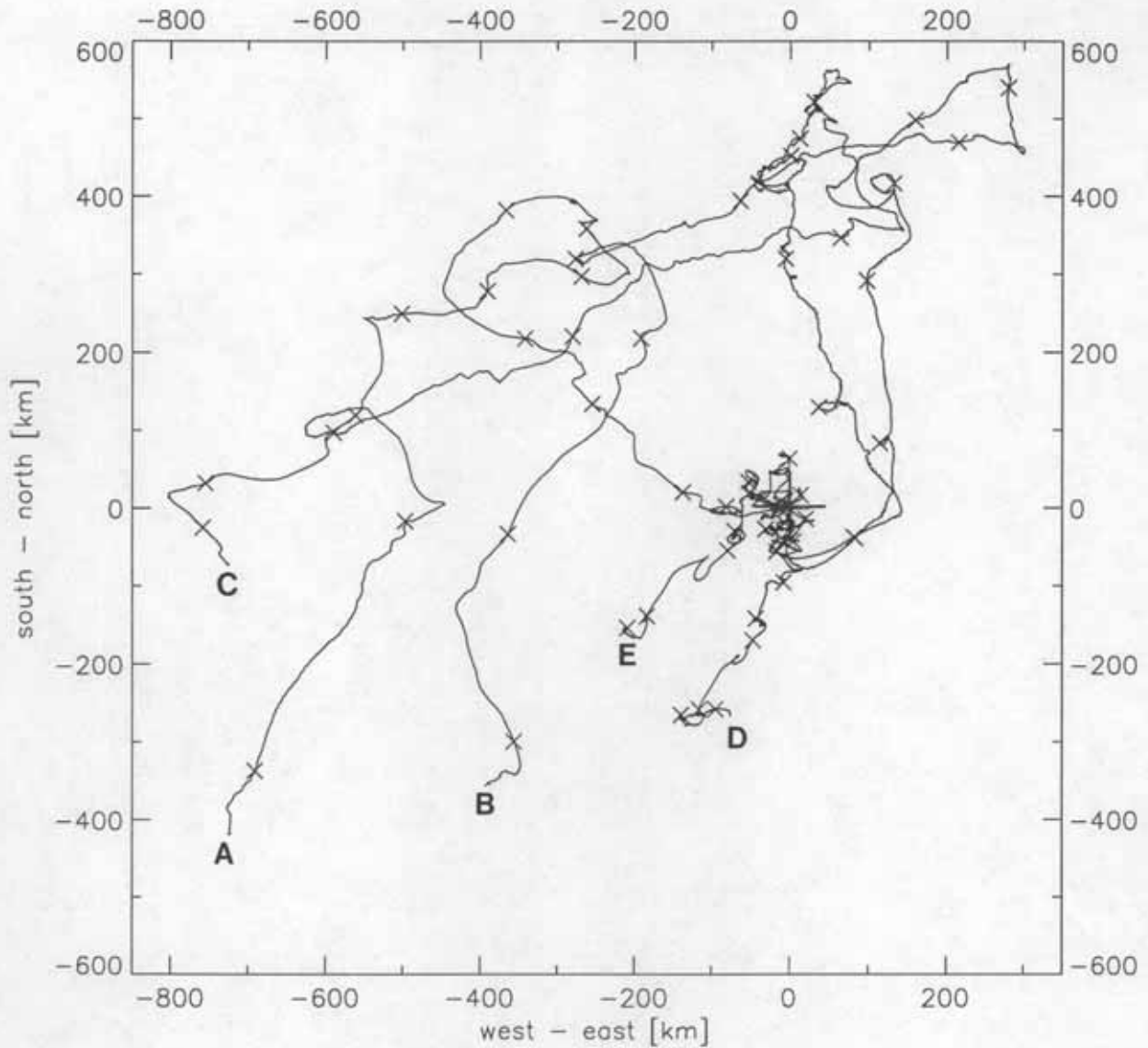
v-component (meridional)



19. 9.1991 14:00 - 19. 2.1992 12:00 (UTC)

Time marks (x) are given every 720 hours

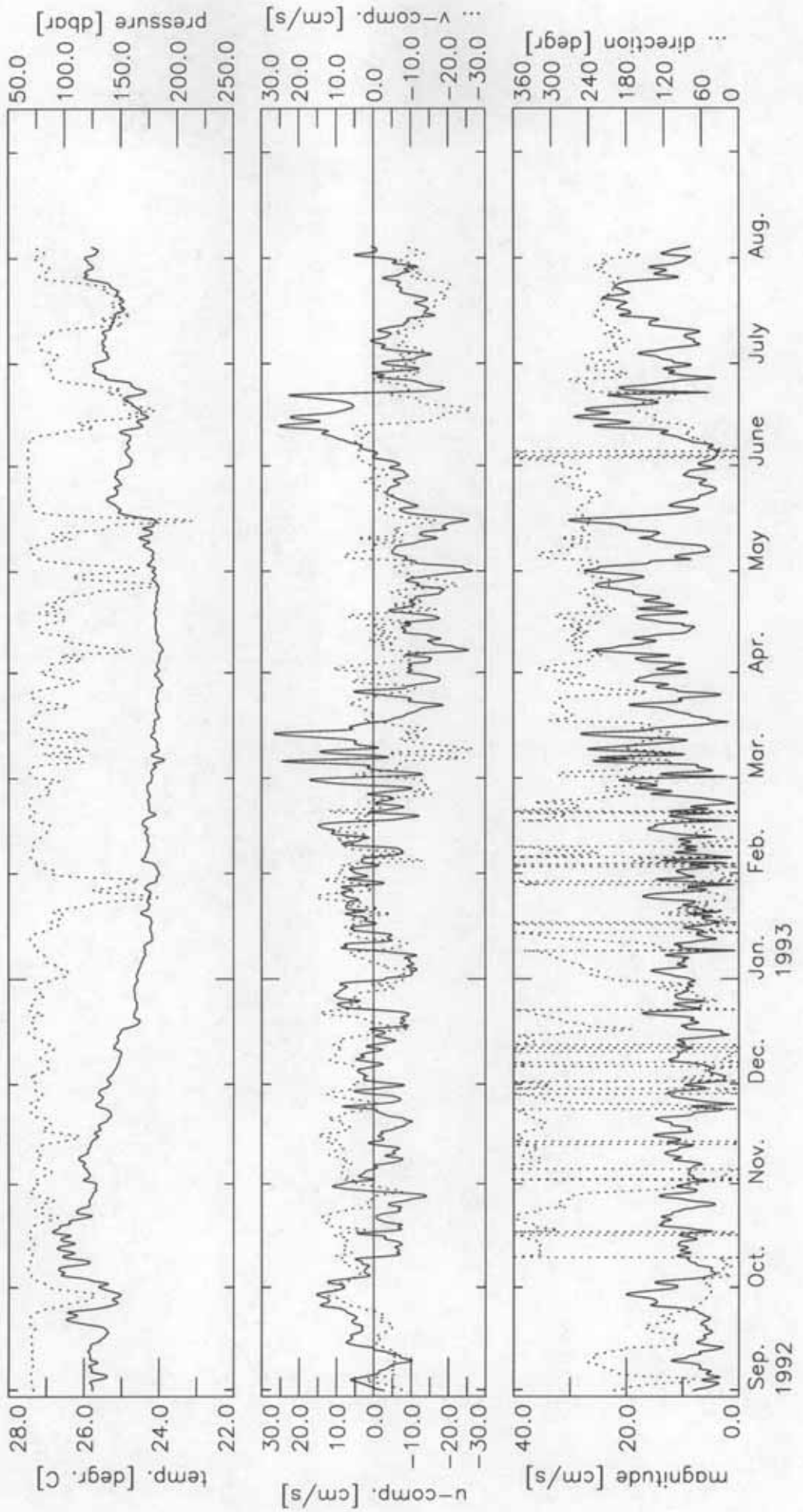
F2



Time marks (x) are given every 720 hours

- A** α 93049; sd= 181 m; 30. 8.1992 18:00 - 5. 8.1993 8:00 (UTC)
- B** α 93047; sd= 781 m; 30. 8.1992 18:00 - 5. 9.1993 7:00 (UTC)
- C** α 93046; sd= 1981 m; 30. 8.1992 18:00 - 11. 9.1993 17:00 (UTC)
- D** α 93045; sd= 2981 m; 30. 8.1992 18:00 - 4. 9.1993 1:00 (UTC)
- E** α 93044; sd= 3431 m; 30. 8.1992 18:00 - 5. 8.1993 23:00 (UTC)

F2, record no. = a93049, sampling depth = 181 m

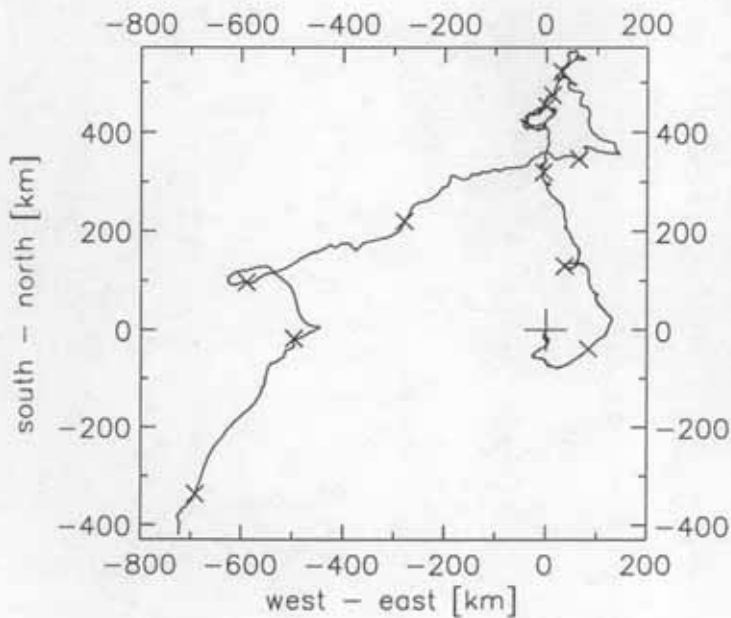
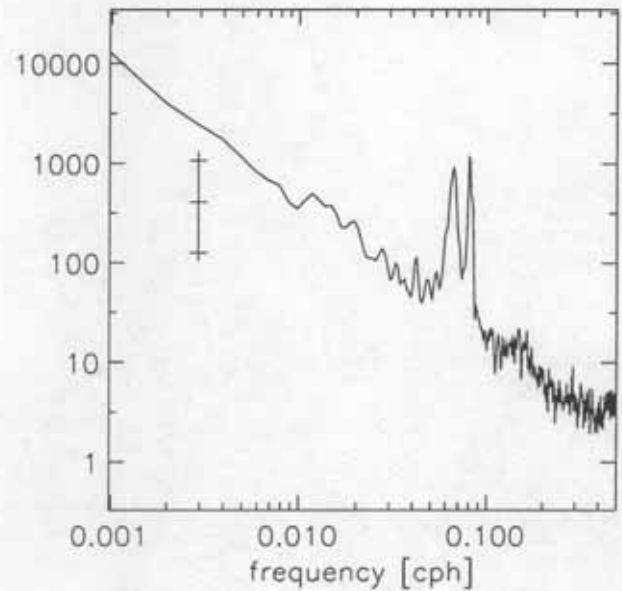
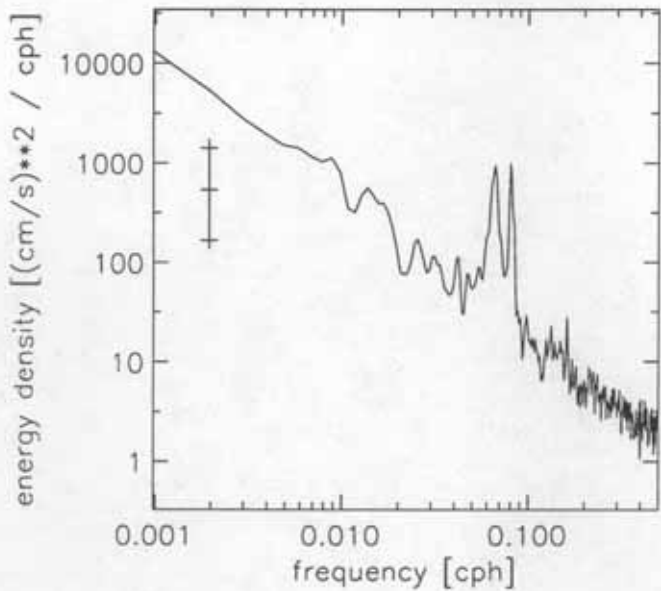


F2

record no: a93049, sampling interval = 60.0 minutes

u-component (zonal)

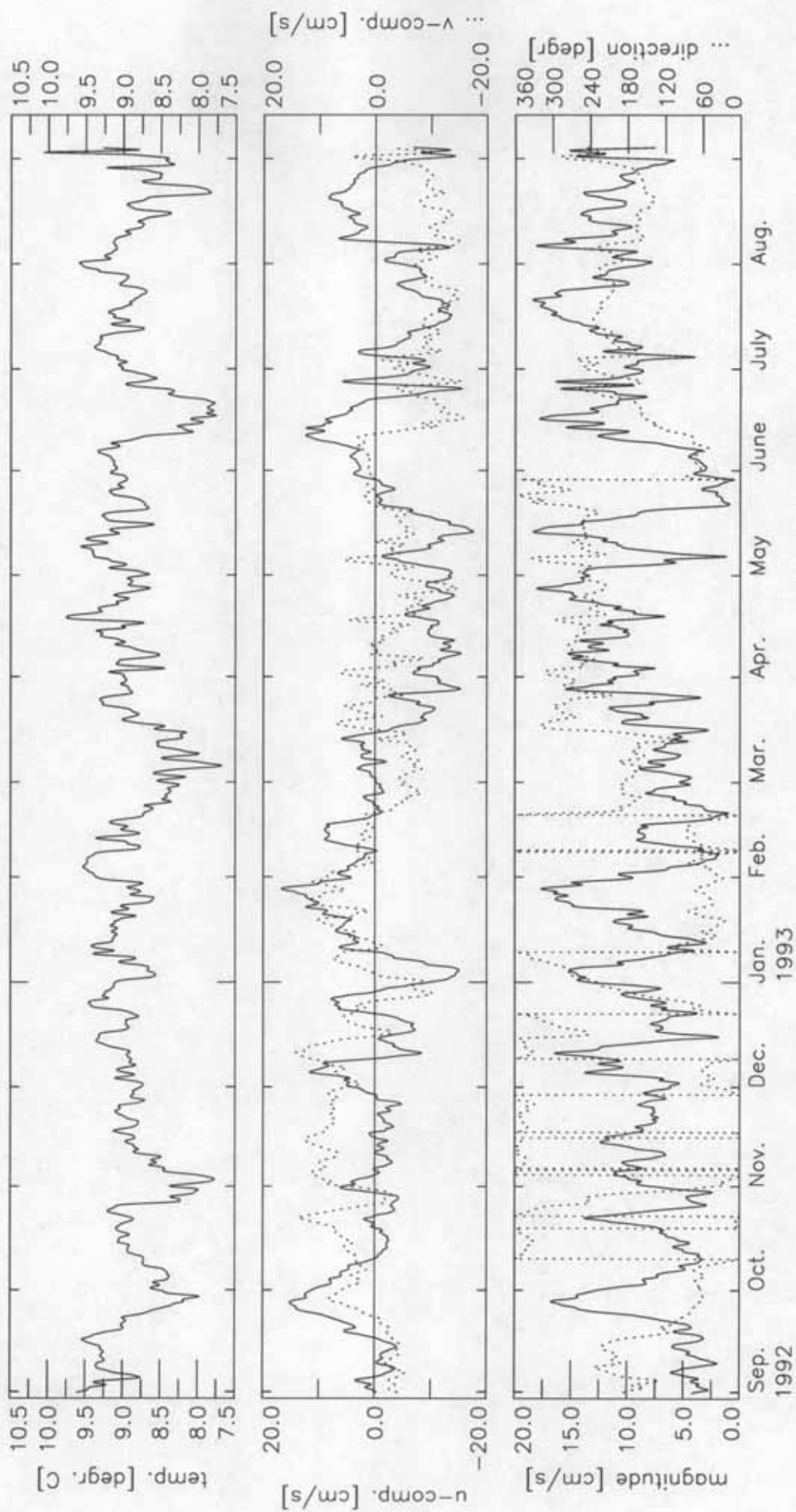
v-component (meridional)



30. 8.1992 18:00 - 5. 8.1993 8:00 (UTC)

Time marks (x) are given every 720 hours

F2, record no. = a93047, sampling depth = 781 m

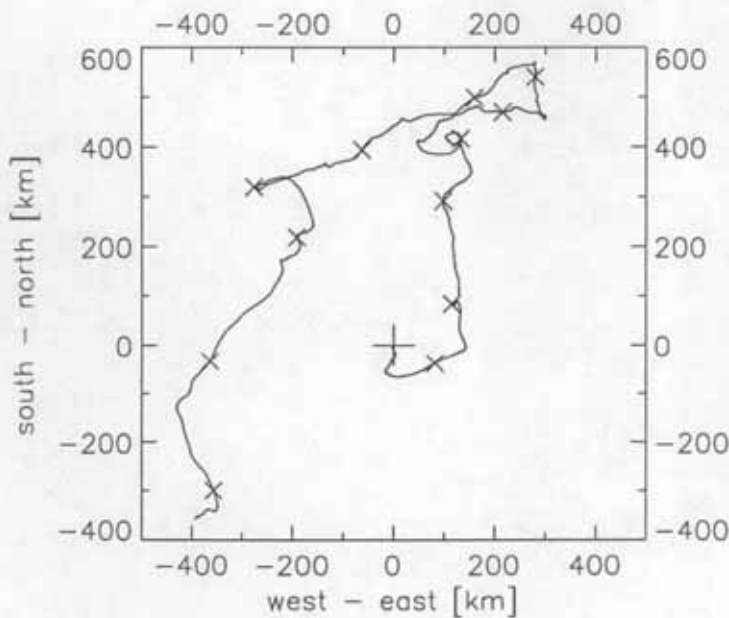
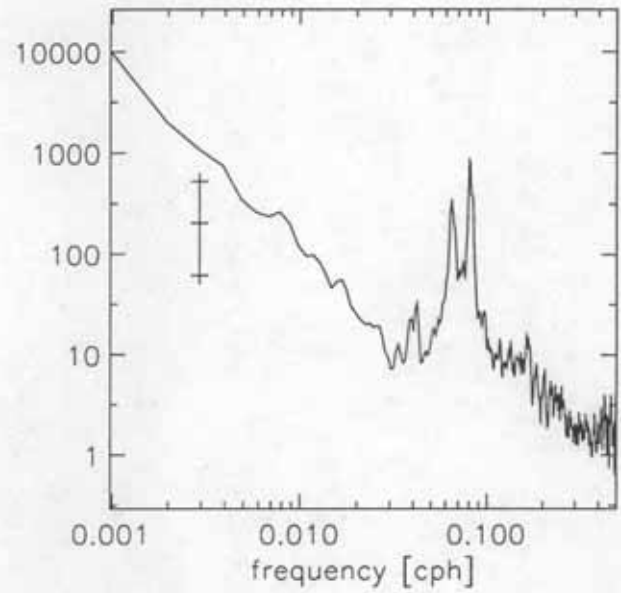
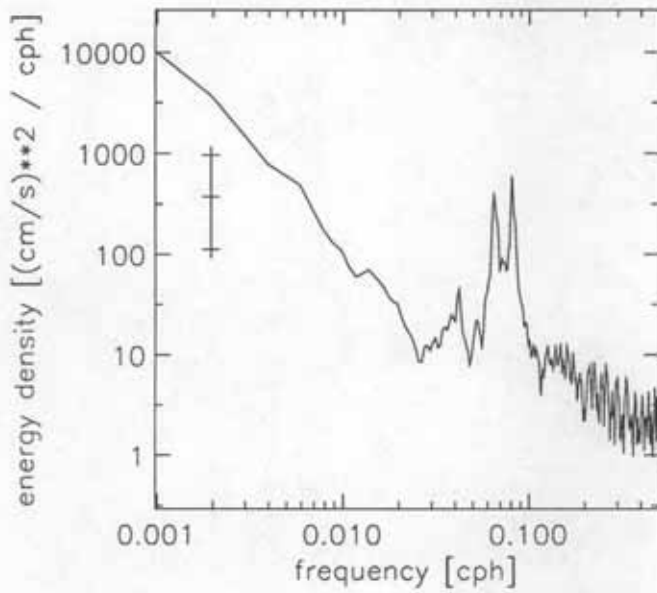


F2

record no: a93047, sampling interval = 60.0 minutes

u-component (zonal)

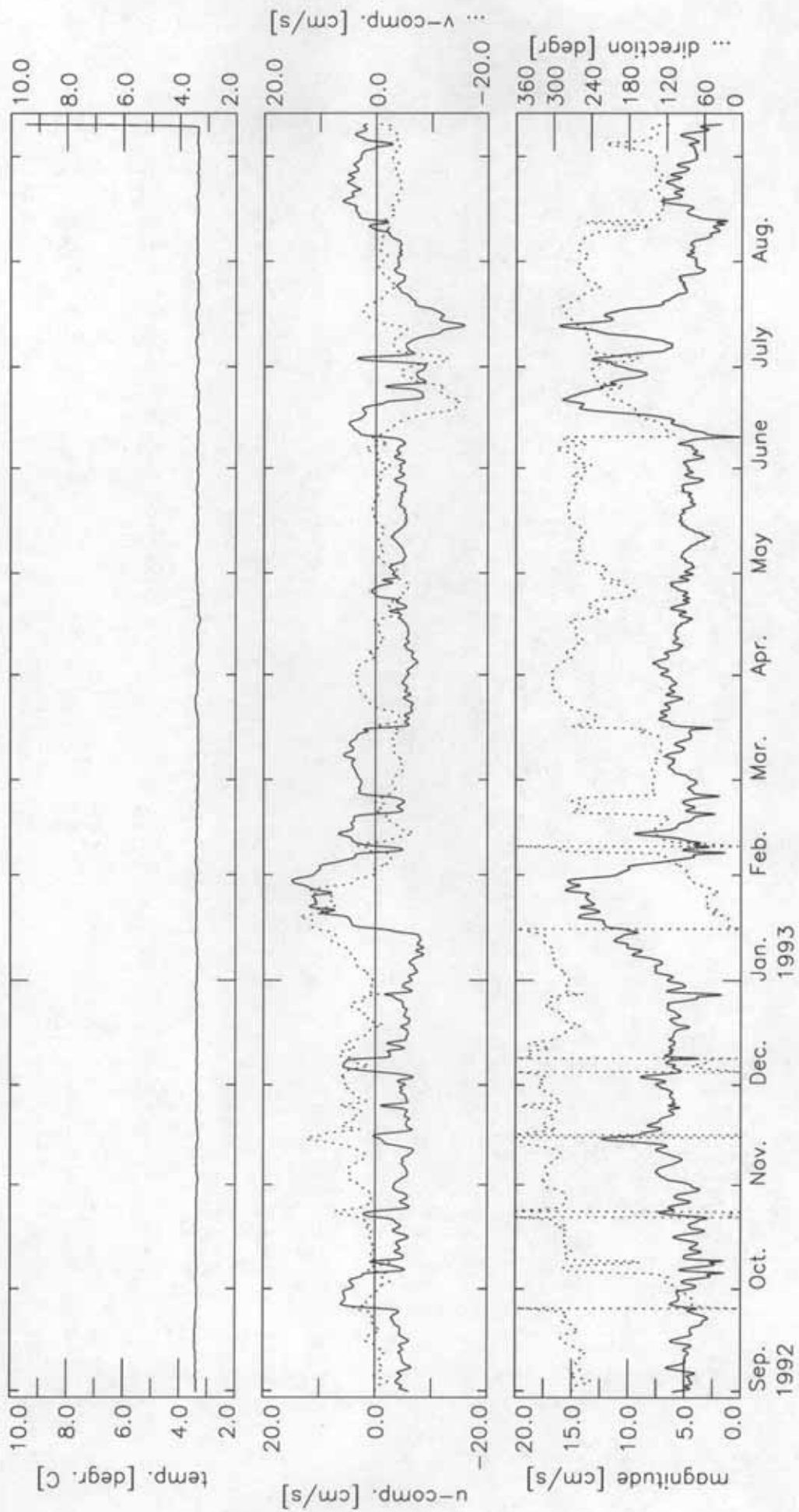
v-component (meridional)



30. 8.1992 18:00 - 5. 9.1993 7:00 (UTC)

Time marks (x) are given every 720 hours

F2, record no. = a93046, sampling depth = 1981 m

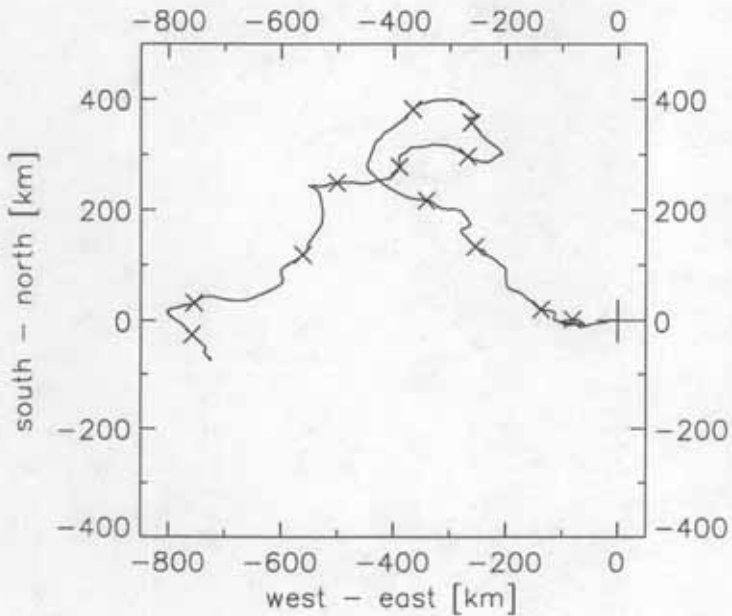
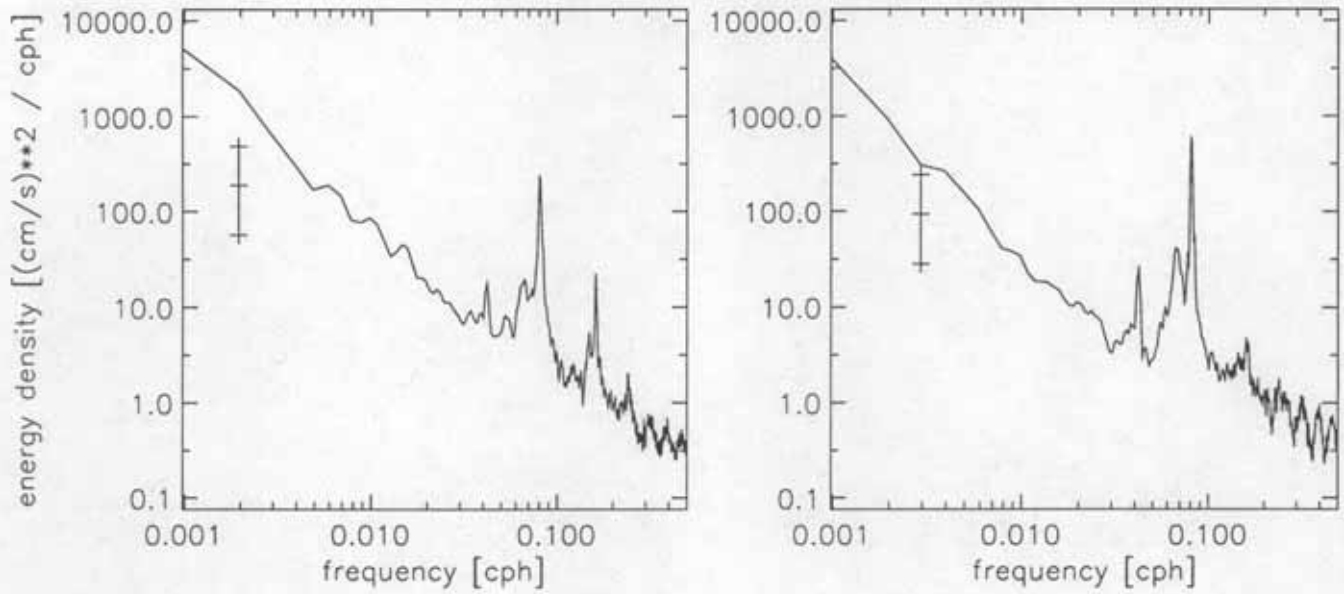


F2

record no: a93046, sampling interval = 60.0 minutes

u-component (zonal)

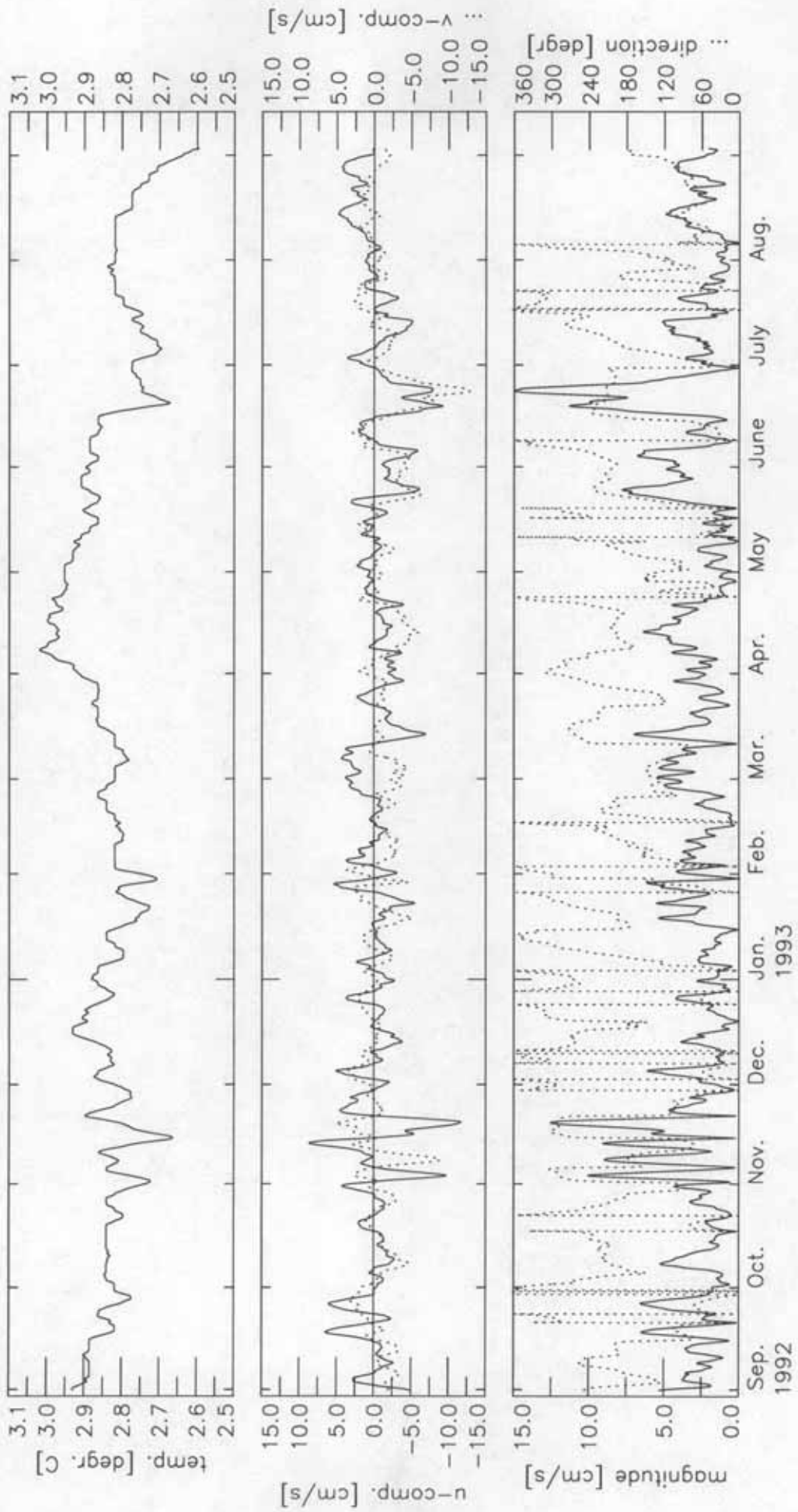
v-component (meridional)



30. 8.1992 18:00 - 11. 9.1993 17:00 (UTC)

Time marks (x) are given every 720 hours

F2, record no. = a93045, sampling depth = 2981 m

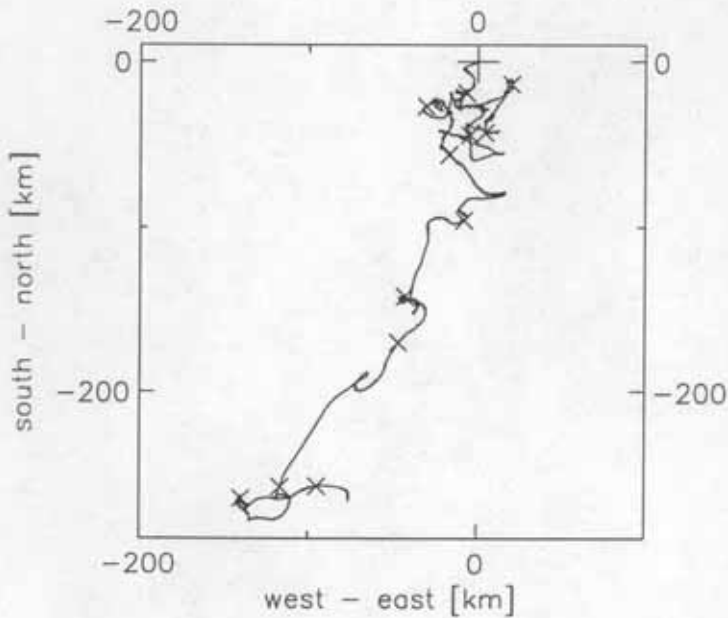
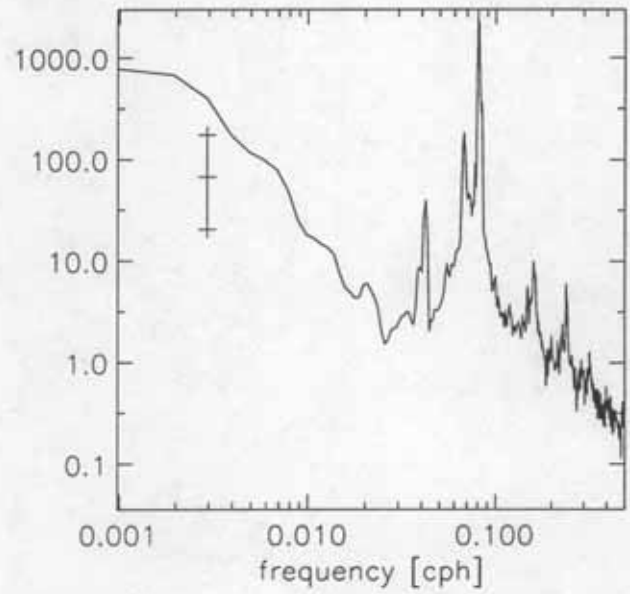
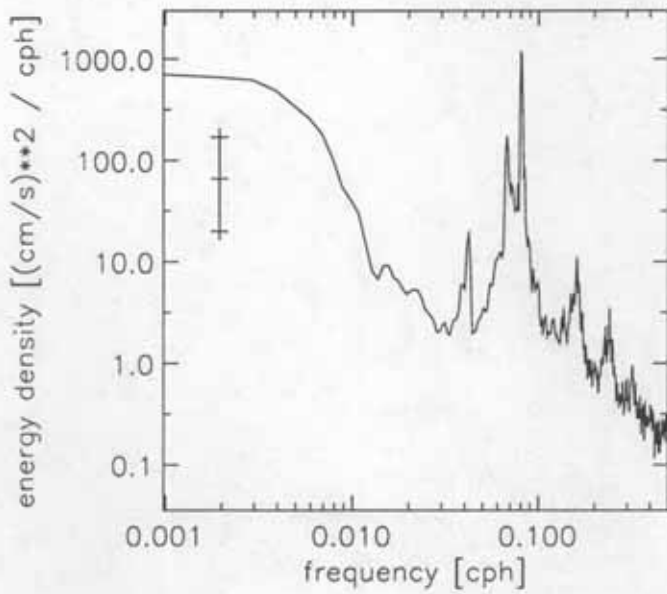


F2

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u-component (zonal)

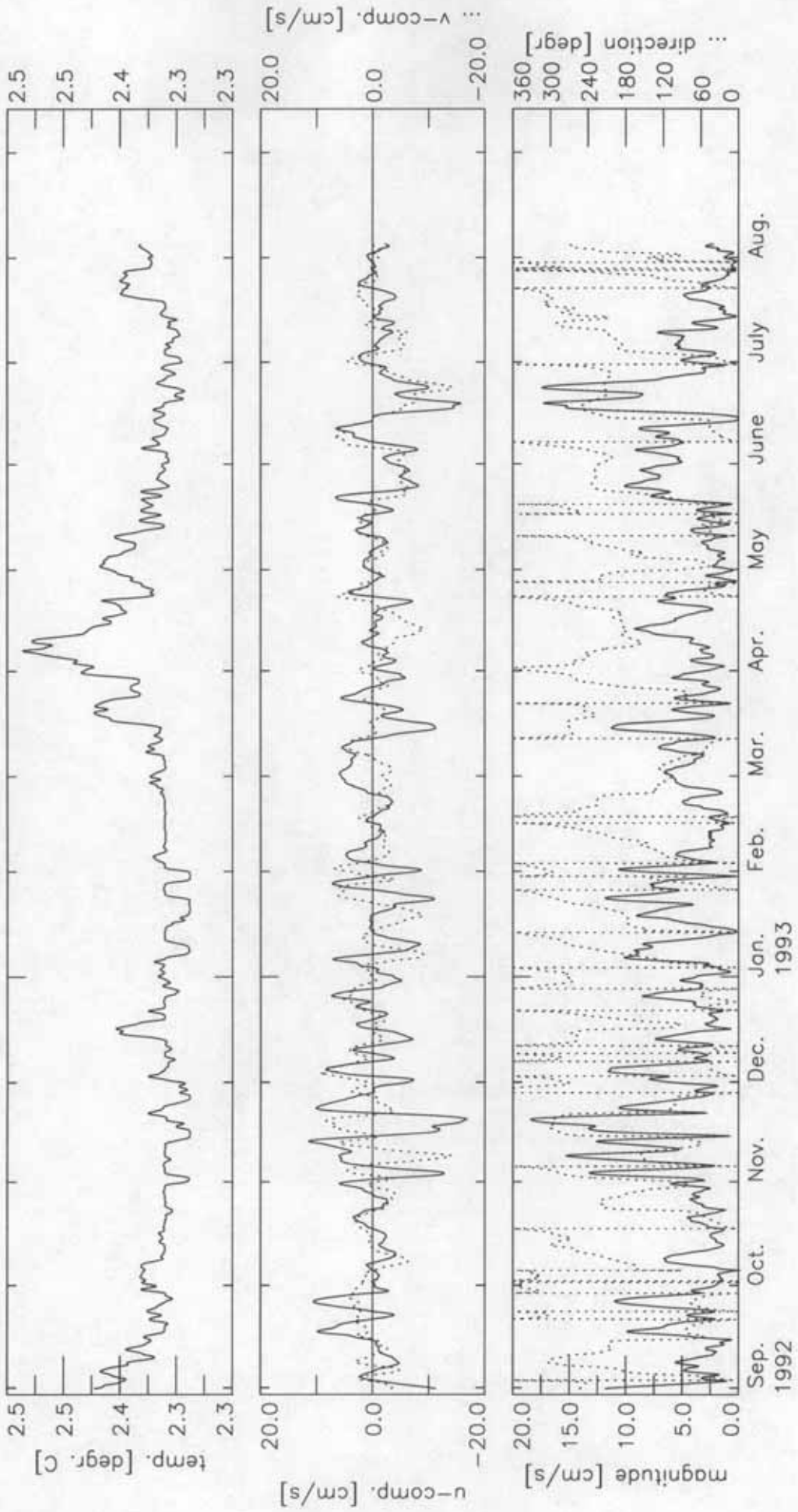
v-component (meridional)



30. 8.1992 18:00 - 4. 9.1993 1:00 (UTC)

Time marks (x) are given every 720 hours

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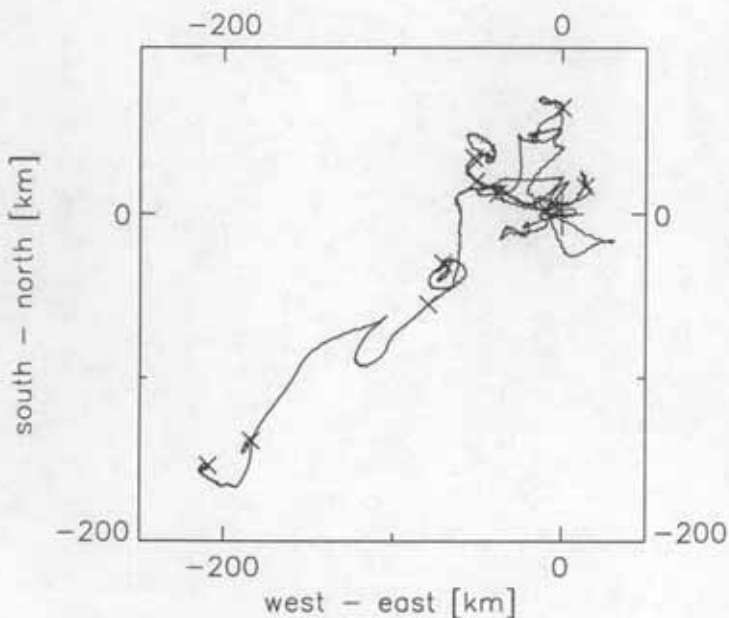
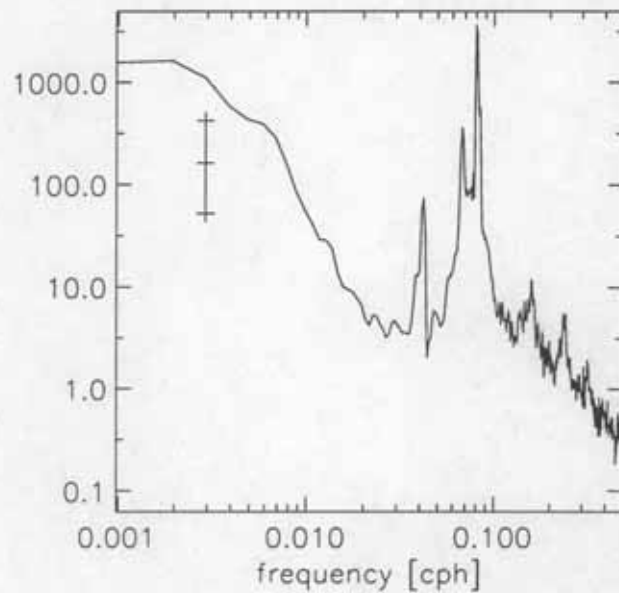
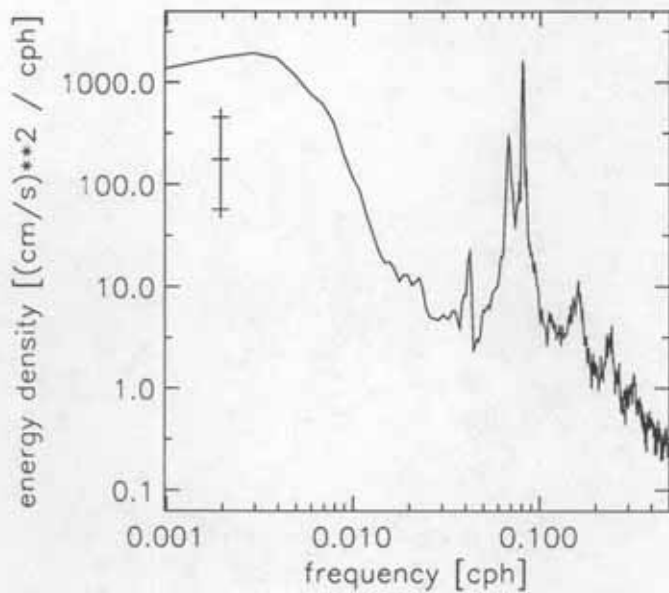


F2

record no: a93044, sampling interval = 60.0 minutes

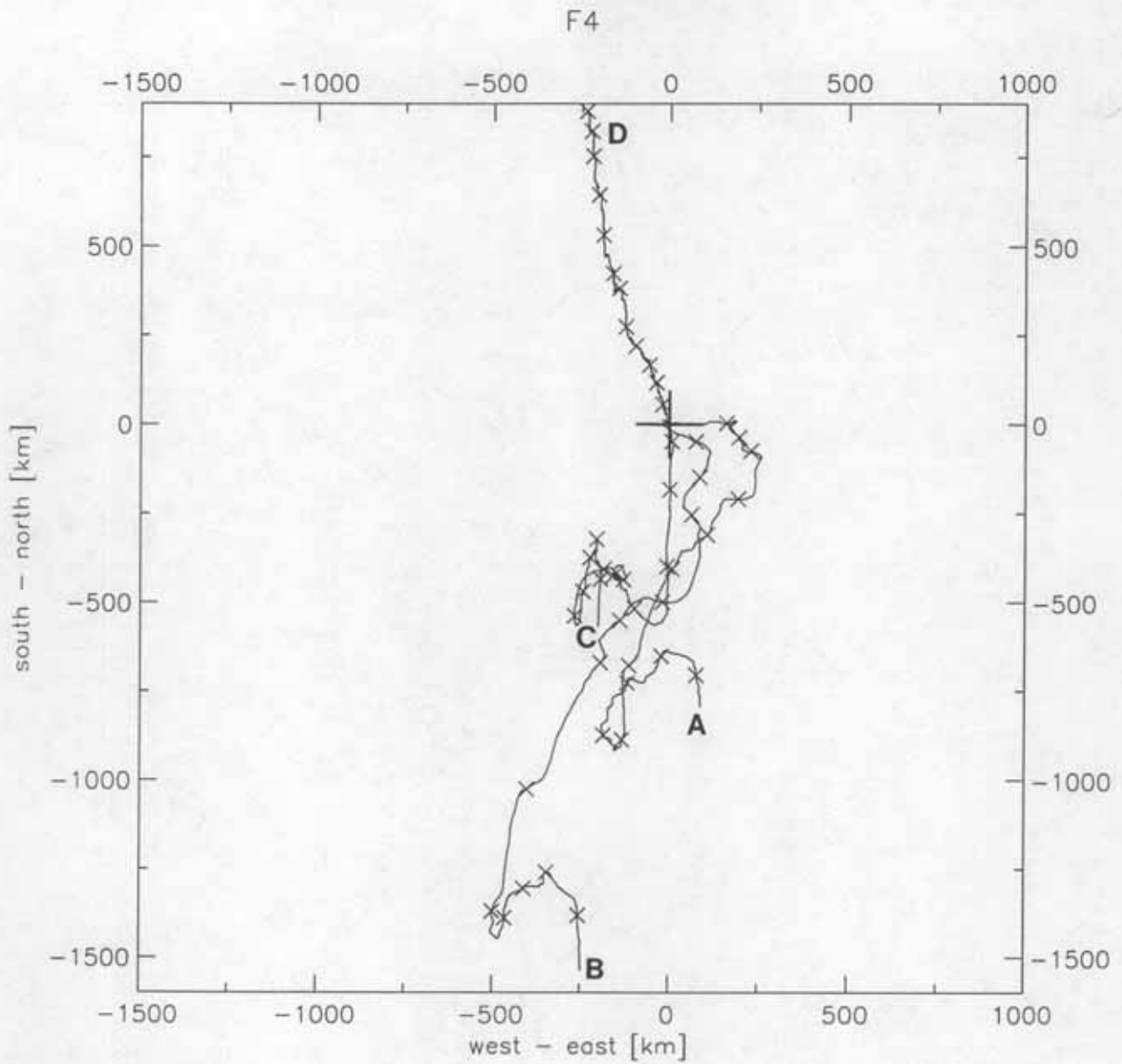
u-component (zonal)

v-component (meridional)



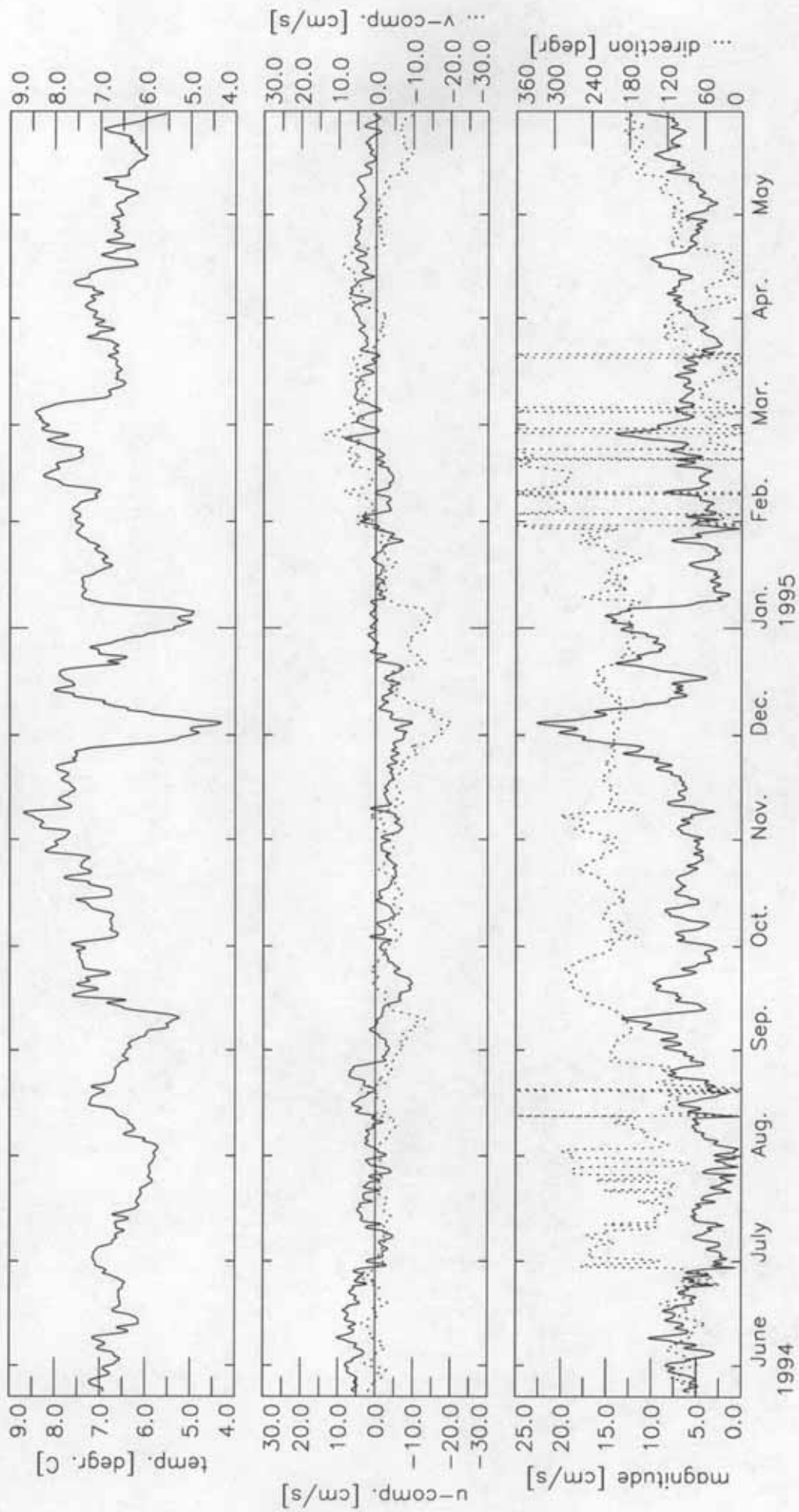
30. 8.1992 18:00 - 5. 8.1993 23:00 (UTC)

Time marks (x) are given every 720 hours



- A** a95023; sd= 853 m; 23. 5.1994 10:00 – 31. 5.1995 7:00 (UTC)
B a95024; sd= 1255 m; 23. 5.1994 10:00 – 31. 5.1995 7:00 (UTC)
C a95025; sd= 2057 m; 23. 5.1994 10:00 – 31. 5.1995 7:00 (UTC)
D a95026; sd= 2504 m; 23. 5.1994 10:00 – 19. 5.1995 16:00 (UTC)

F4, record no. = a95023, sampling depth = 853 m

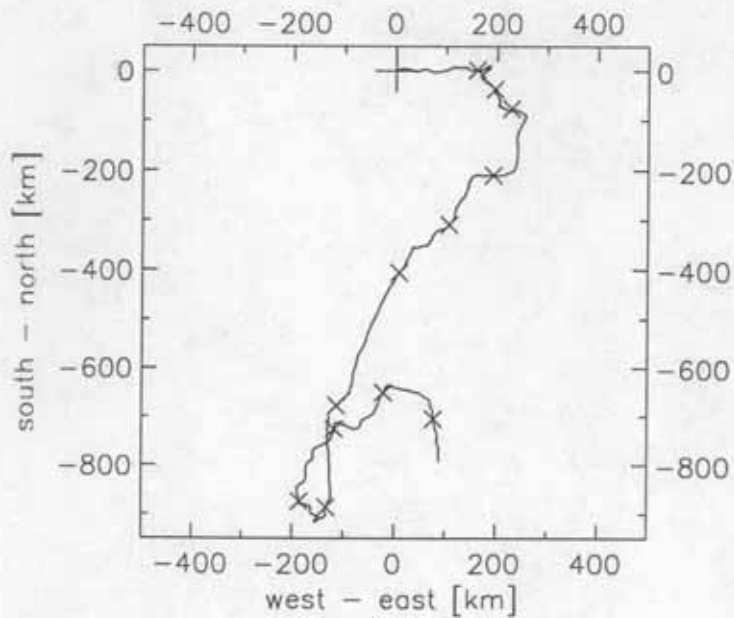
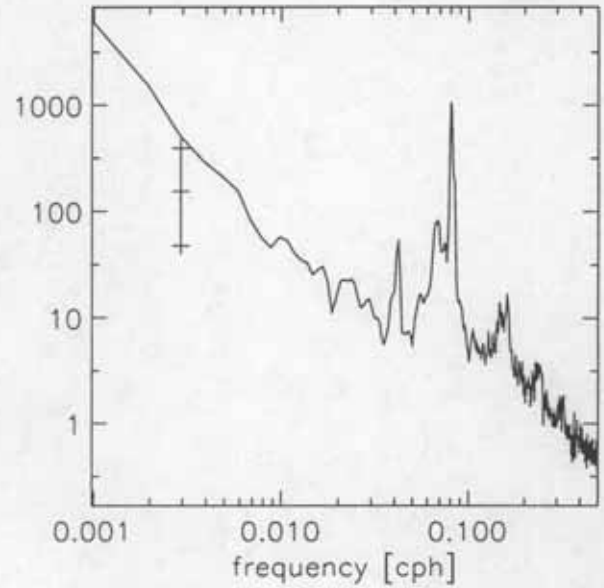
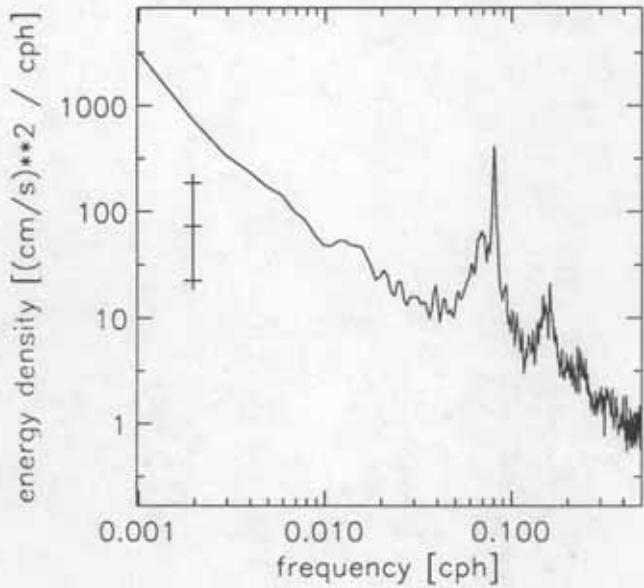


F4

record no: a95023, sampling interval = 60.0 minutes

u-component (zonal)

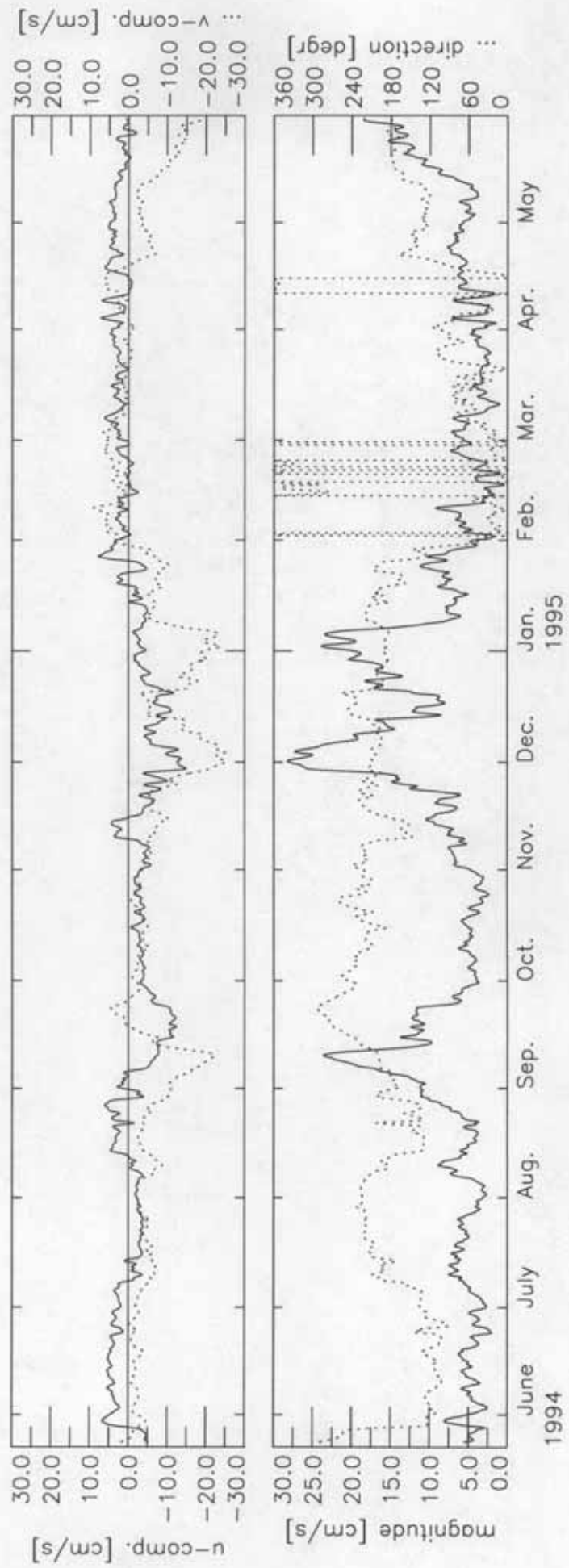
v-component (meridional)



23. 5.1994 10:00 - 31. 5.1995 7:00 (UTC)

Time marks (x) are given every 720 hours

F4, record no. = a95024, sampling depth = 1255 m

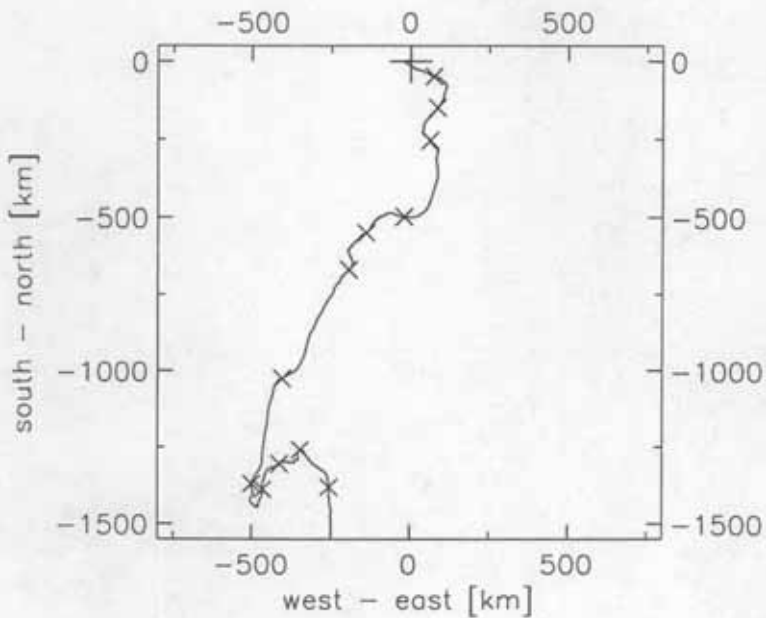
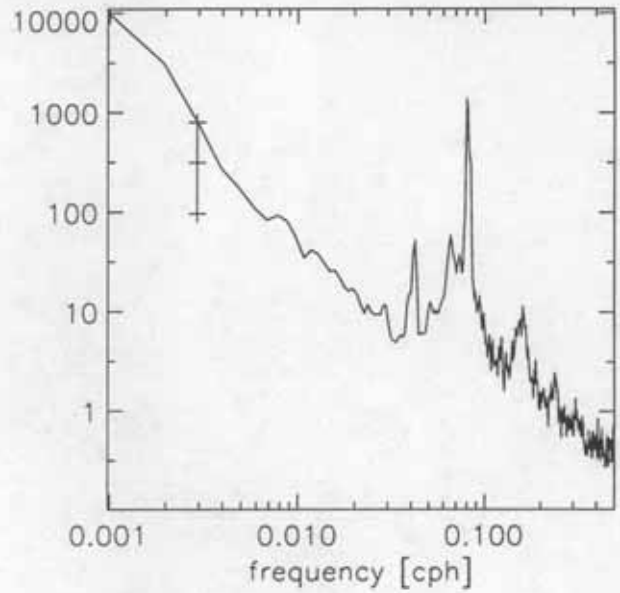
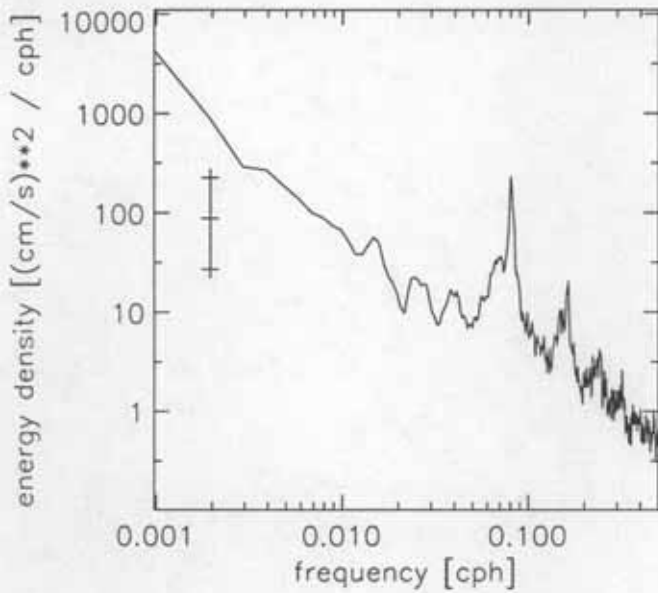


F4

record no: a95024, sampling interval = 60.0 minutes

u-component (zonal)

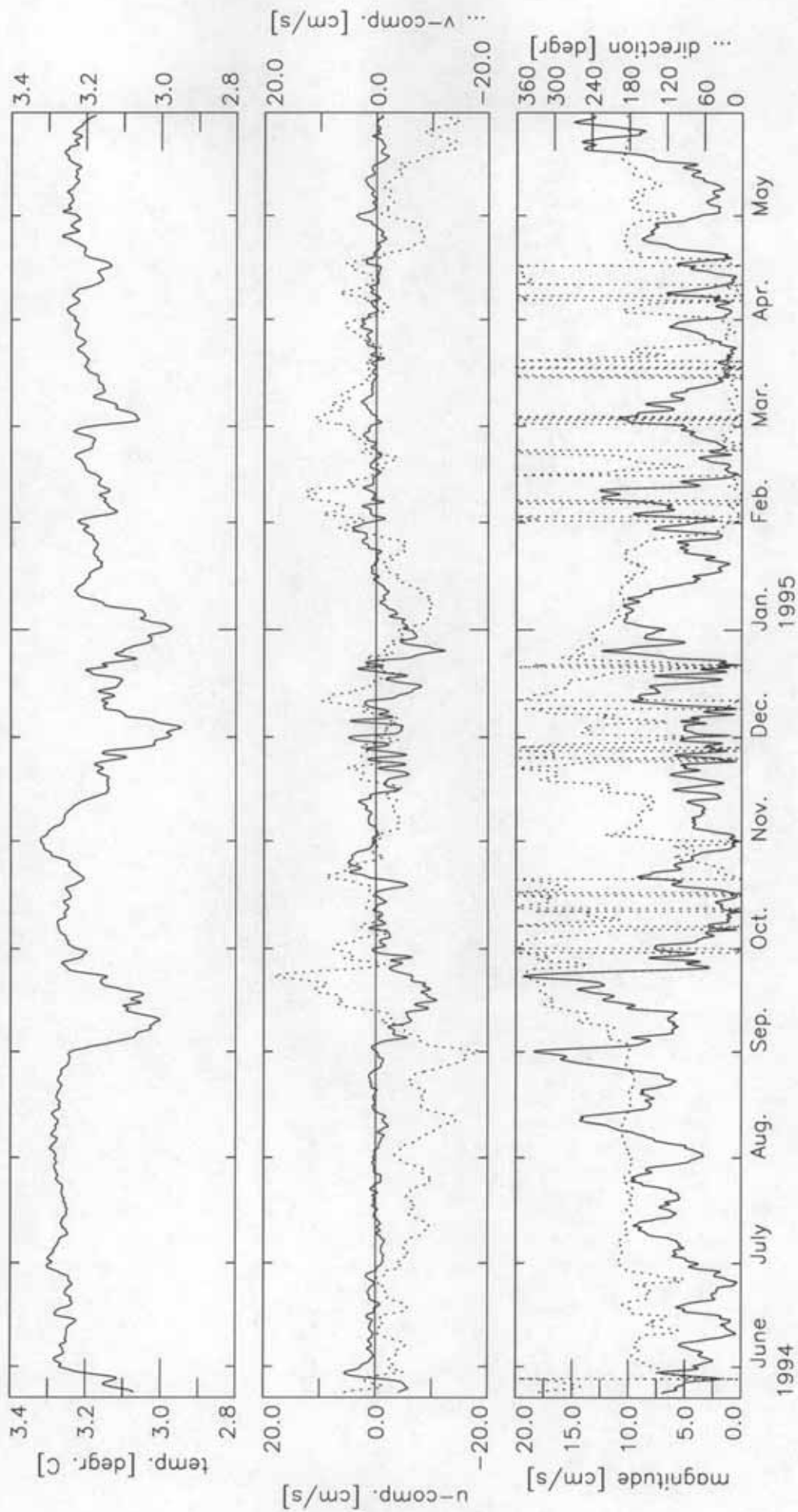
v-component (meridional)



23. 5.1994 10:00 - 31. 5.1995 7:00 (UTC)

Time marks (x) are given every 720 hours

F4, record no. = a95025, sampling depth = 2057 m

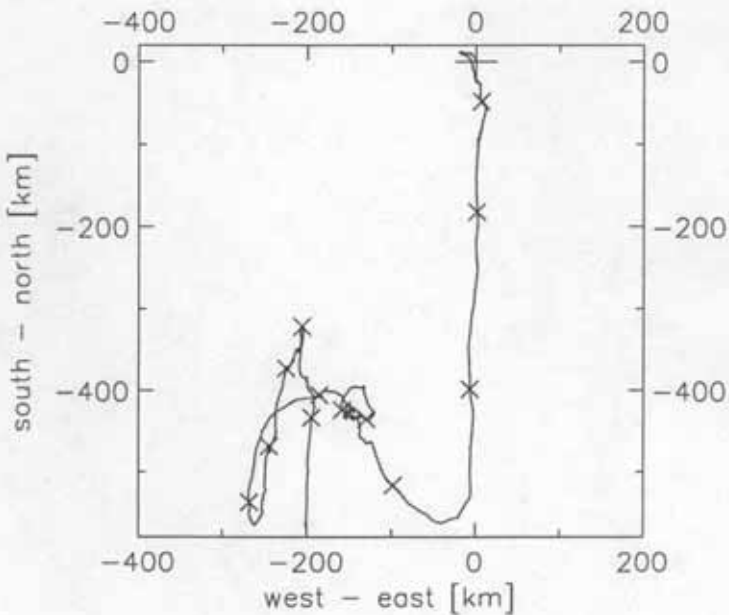
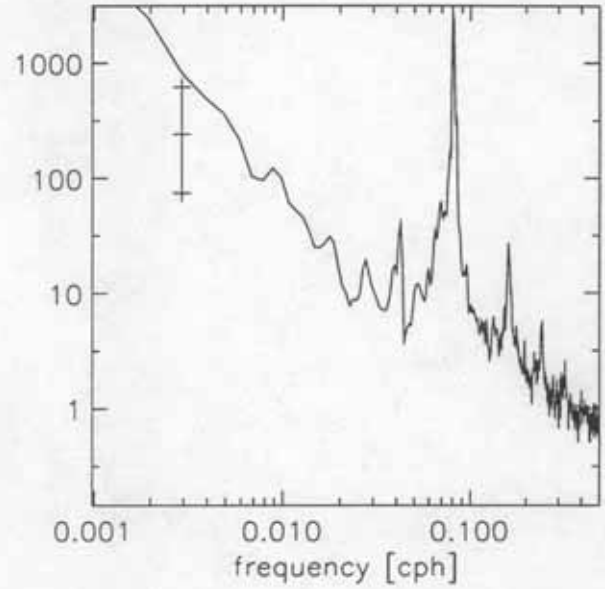
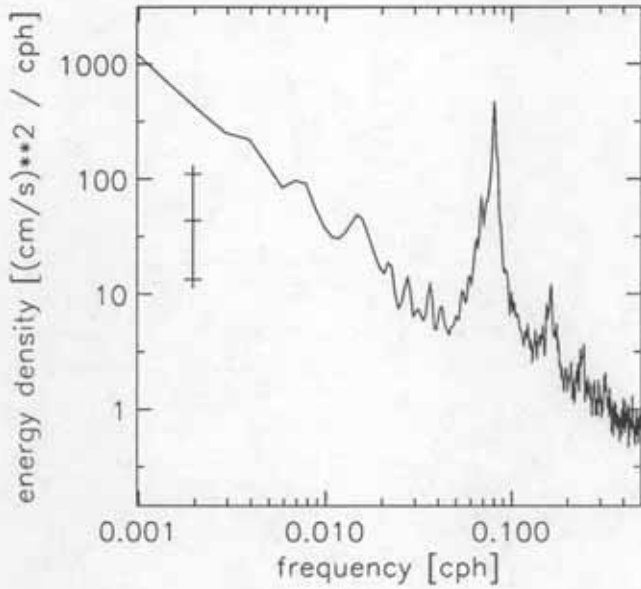


F4

record no: a95025, sampling interval = 60.0 minutes

u-component (zonal)

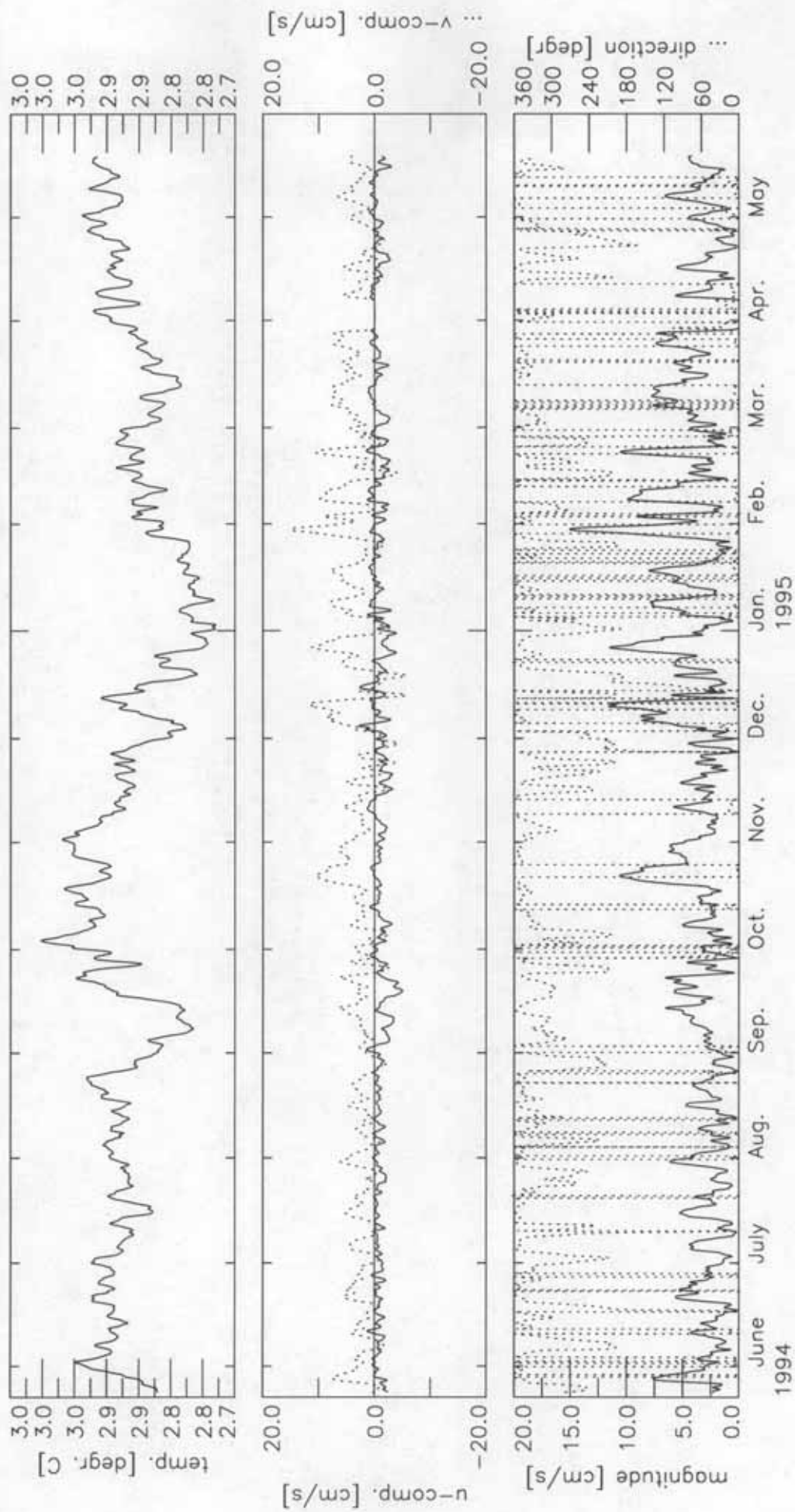
v-component (meridional)



23. 5.1994 10:00 - 31. 5.1995 7:00 (UTC)

Time marks (x) are given every 720 hours

F4, record no. = a95026, sampling depth = 2504 m

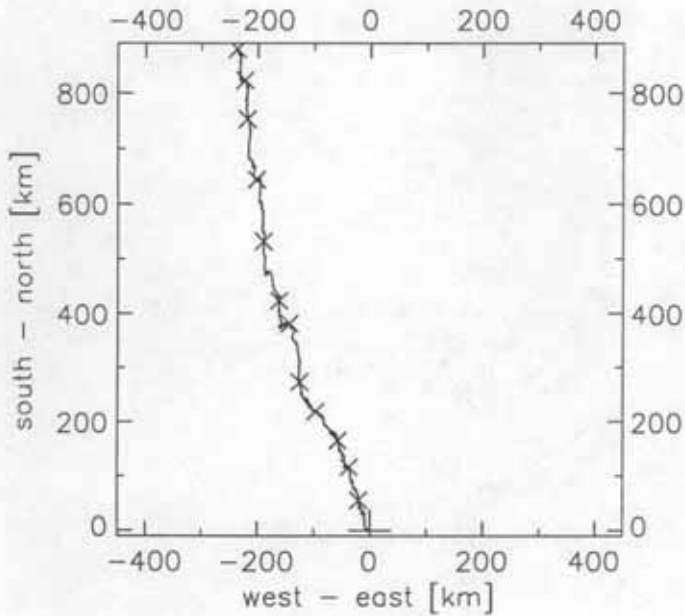
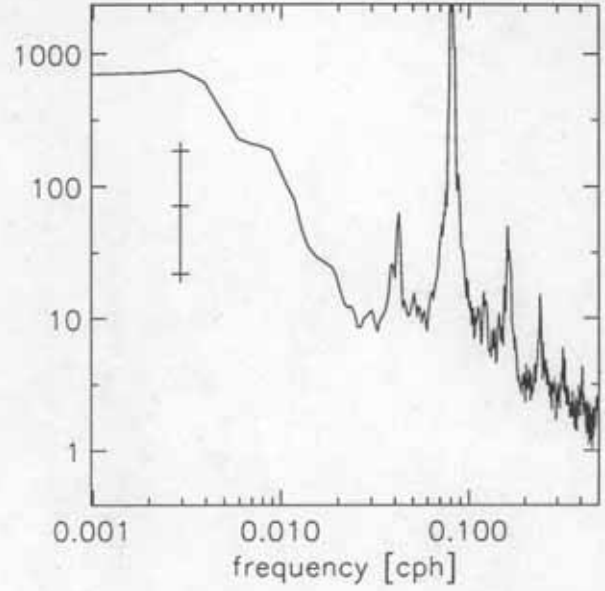
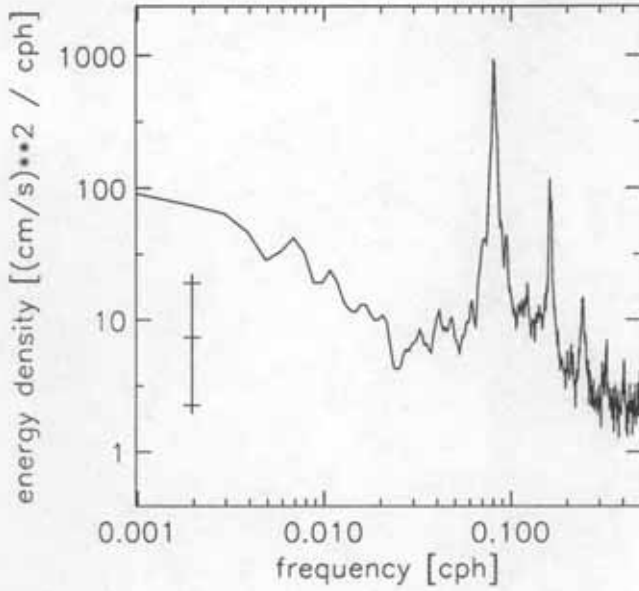


F4

record no: a95026, sampling interval = 60.0 minutes

u-component (zonal)

v-component (meridional)



23. 5.1994 10:00 - 19. 5.1995 16:00 (UTC)

Time marks (x) are given every 720 hours

G1 - G5

Mooring Data G1, G2, G3, G4, and G5

current meter	sampl. depth	mab	record no.	sampling time			
-	m	m	-	UTC			
G1: 16.6.93 - 5.8.94, 48° 55.8'N, 12° 55.8'W, si = 60'							
RCM5 6786	632	1908	95047	16.6.93	21:00	-	12.7.94 23:00
RCM5 6787	1035	1505	95048	16.6.93	22:00	-	5.8.94 14:00
RCM5 6976	1838	702	95049	16.6.93	22:00	-	11.7.94 07:00
G2: 17.6.93 - 15.2.94, 48° 50.8'N, 13° 59.5'W, si = 60'							
RCM8 10588	370	4160	95051	17.6.93	12:00	-	4.12.93 04:00
RCM8 10586	977	3553	95053	17.6.93	13:00	-	15.2.94 02:00
G3: 13.6.94 - 3.7.94, 50° 17.4'N, 11° 53.7'W, si = 10'							
RCM4 4731	367	1733	94037	13.6.94	09:00	-	3.7.94 05:50
RCM4 4729	579	1521	94038	13.6.94	09:00	-	3.7.94 05:50
RCM4 4364	881	1219	94039	13.6.94	09:00	-	3.7.94 05:50
RCM4 6107	1383	717	94040	13.6.94	09:00	-	3.7.94 05:50
RCM8 10649	2085	15	94041	13.6.94	09:00	-	3.7.94 05:50
G4: 14.6.94 - 8.7.94, 47° 59.3'N, 9° 2.2'W, si = 10'							
RCM4 7752	435	2065	94036	14.9.94	12:20	-	8.7.94 07:50
RCM4 4742	587	1913	94035	14.6.94	12:20	-	8.7.94 07:50
RCM4 7750	739	1761	94034	14.6.94	12:20	-	8.7.94 07:50
RCM4 7751	941	1559	94033	14.6.94	12:20	-	8.7.94 07:50
RCM8 10650	2485	15	94031	14.6.94	12:20	-	8.7.94 07:50
G5: 6.8.95 - 21.8.95, 48° 43.9'N, 13° 8.0'W, si = 5'							
RCM7 11556	140	3760	95036	6.8.95	15:15	-	21.8.95 14:10
RCM8 10684	340	3560	95037	6.8.95	15:15	-	21.8.95 14:10
RCM8 9385	540	3360	95038	6.8.95	15:15	-	21.8.95 14:15
RCM8 10649	1140	2760	95039	6.8.95	15:15	-	21.8.95 14:10
RCM8 9384	2140	1760	95040	6.8.95	15:15	-	21.8.95 14:10

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

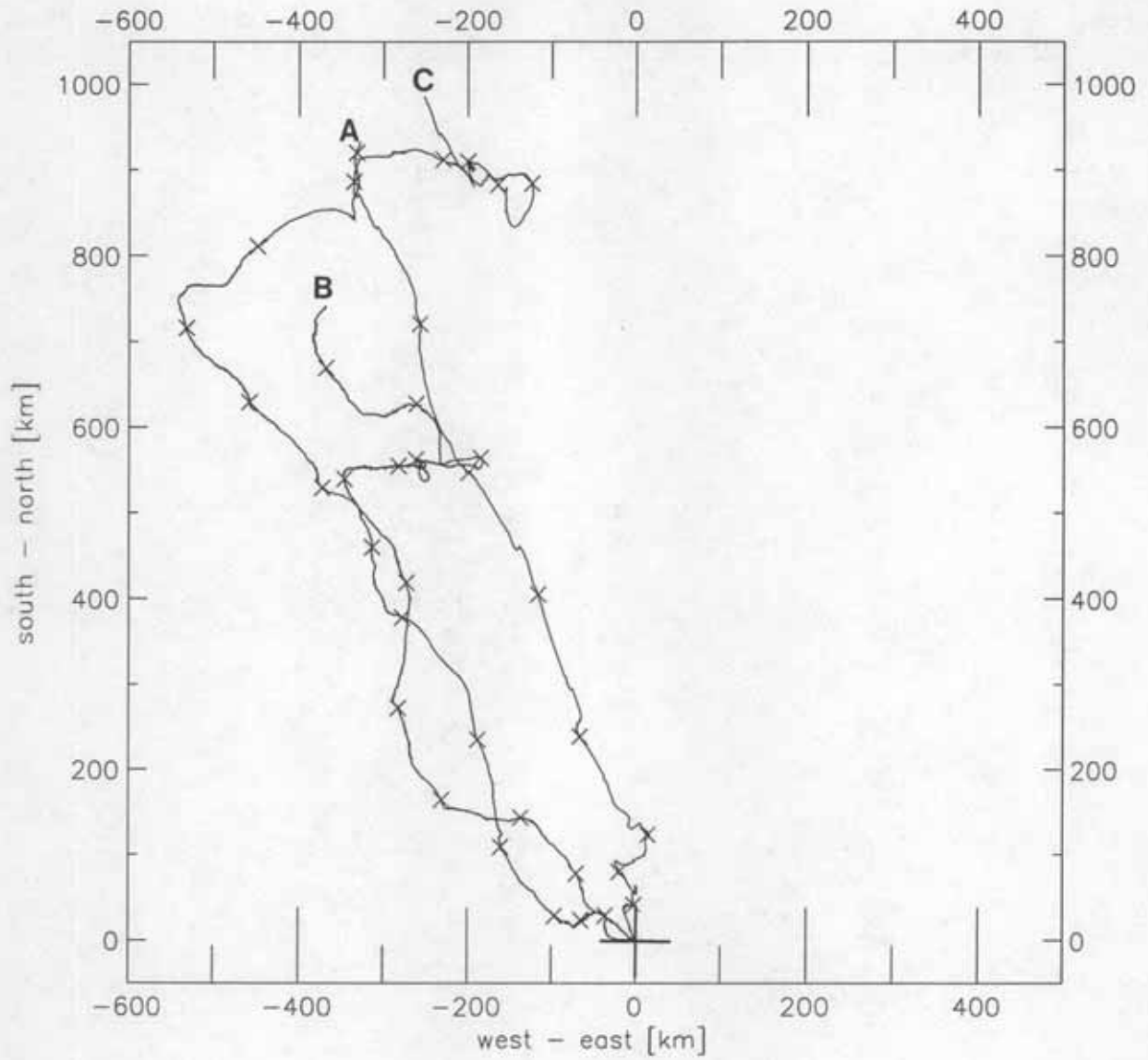
Id	sampl. depth	rec. length	\bar{u} \bar{v}	cm/s	mag V	$\frac{\overline{u'u'}}{\overline{v'v'}}$	$\overline{u'v'}$	k_E k_M	T_x T_y	days	L_x L_y	km	K_x K_y	$cm^2/s \times 10^6$	dir
	m	days			cm/s	cm^2/s^2	cm^2/s^2	cm^2/s^2							°
G1:	632	301	-1.2±0.08		7.3	13.5	0.9	9.3	15.8	15.8	50.0	18.3			341 ¹⁾
			3.6±0.05		3.8	5.1		7.2	4.2	4.2	8.3	1.9			
	1035	412	-1.0±0.05		6.4	6.5	-1.6	63.9	11.9	11.9	26.2	6.7			333
1838			2.1±0.05		2.3	6.3		2.7	19.1	19.1	41.3	10.3			
		387	-0.7±0.06		6.1	8.7	-6.1	11.5	14.9	14.9	38.2	11.3			346
			2.9±0.08		3.0	14.2		4.6	20.6	20.6	67.0	25.2			
G2:	370	168	-0.1±0.17		7.8	31.9	-3.9	23.2	17.0	17.0	83.0	46.9			355
			1.4±0.12		1.4	14.6		1.0	7.7	7.7	25.5	9.7			
	977	240	0.8±0.08		5.5	9.1	-2.6	87.3	12.5	12.5	32.7	9.9			42
			0.8±0.07		1.1	8.3		64.2	6.0	6.0	14.9	4.3			
G3:	367	18	8.0±0.10		11.0	6.7	0.9	14.0	1.1	1.1	2.4	0.6			128
			-6.2±0.17		10.1	21.2		51.5	2.0	2.0	8.0	3.7			
	579	18	2.2±0.23		9.9	36.2	18.5	29.0	2.7	2.7	14.1	8.5			159
881			-5.9±0.18		6.3	21.8		19.6	1.8	1.8	7.1	3.3			
		18	2.0±0.12		6.7	9.9	2.7	7.6	2.8	2.8	7.6	2.4			145
1383			-2.8±0.08		3.5	5.2		6.0	1.5	1.5	3.0	0.7			
		18	1.3±0.07		4.5	3.3	-0.8	2.5	2.8	2.8	4.4	0.8			58
2085			0.8±0.05		1.5	1.8		1.1	2.0	2.0	2.4	0.3			
		18	0.1±0.08		4.2	2.4	0.8	3.0	2.6	2.6	3.4	0.5			3
			1.4±0.14		1.4	3.6		0.9	1.6	1.6	2.7	0.5			

¹⁾ Rotor blocked from 15.4.94 - 5.6.94. Statistics calculated from 17.3.93 - 15.4.94.

Current statistics (low-passed data)

Id	sampl. depth	rec. length	\bar{u} \bar{v}	mag V	$\frac{\overline{u'u'}}{V'V'}$	$\frac{\overline{u'v'}}{V'V'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /sx10 ⁶	°
G4:	435	22	1.9±0.09	11.6	6.7	1.2	5.0	2.3	5.2	1.3	104
			-0.5±0.06	2.0	3.2		2.0	2.0	3.1	0.5	
	587	22	1.5±0.06	8.1	3.5	-0.7	2.1	2.2	3.5	0.7	108
			-0.5±0.03	1.6	0.7		1.3	1.7	1.2	0.1	
	739	22	0.2±0.08	7.1	5.5	-1.0	3.3	2.2	4.5	1.1	18
		0.6±0.04	0.7	1.1		0.2	1.0	0.9	<0.1		
	941	22	-1.8±0.16	8.5	22.3	3.2	12.2	1.8	7.5	3.5	290
			0.7±0.05	1.9	2.2		1.9	1.6	2.1	0.3	
	2485	22	-3.8±0.10	12.0	9.0	5.5	8.2	2.0	5.1	1.5	235
			-2.7±0.10	4.7	7.5		10.9	3.8	9.1	2.5	
G5:	140	13	-10.9±0.06	12.4	3.2	-3.3	9.2	0.7	1.2	0.2	280
			1.9±0.12	11.1	15.1		61.4	1.8	6.2	2.4	
	340	13	-11.8±0.07	14.0	5.0	-9.0	13.4	1.2	2.3	0.5	284
			2.9±0.15	12.1	21.7		73.6	1.8	7.3	3.4	
	540	13	-9.3±0.06	13.1	3.1	-3.9	6.1	1.1	1.7	0.3	283
		2.1±0.10	9.6	9.0		46.0	1.7	4.5	1.3		
	1140	13	-1.9±0.03	5.2	1.0	-0.5	1.1	0.8	0.7	<0.1	287
			0.6±0.03	2.0	1.2		2.0	0.6	0.5	<0.1	
	2140	13	-0.0±0.02	3.2	0.5	-0.1	0.6	1.3	0.8	<0.1	349
			0.2±0.03	0.2	0.7		<0.1	0.6	0.4	<0.1	

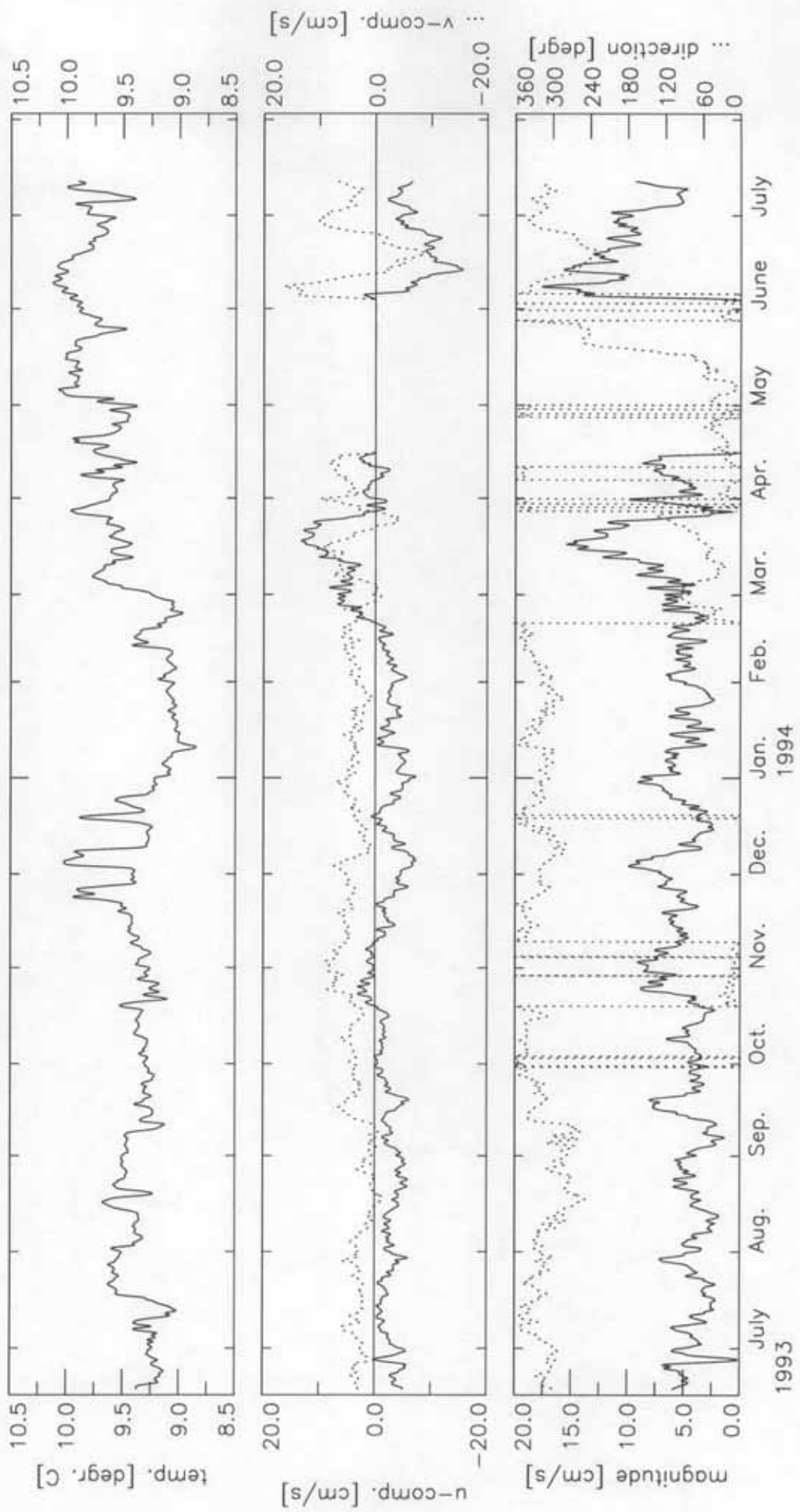
G1



Time marks (x) are given every 720 hours

Aa95047; sd= 632 m; 16. 6.1993 22:00 - 15. 4.1994 0:00 (UTC)
Ba95048; sd= 1035 m; 16. 6.1993 22:00 - 5. 8.1994 14:00 (UTC)
Ca95049; sd= 1838 m; 16. 6.1993 22:00 - 11. 7.1994 7:00 (UTC)

G1, record no. = a95047, sampling depth = 632 m

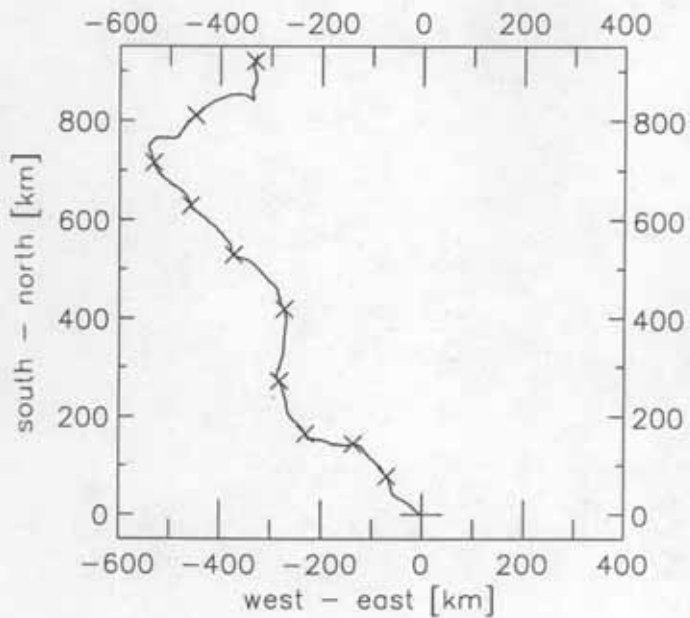
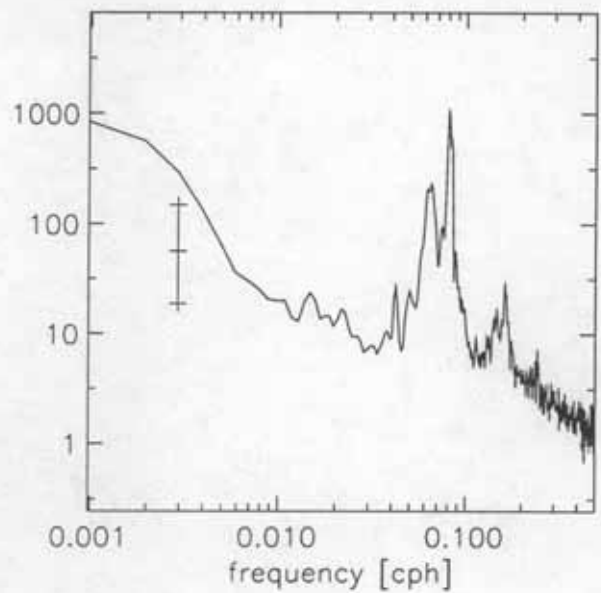
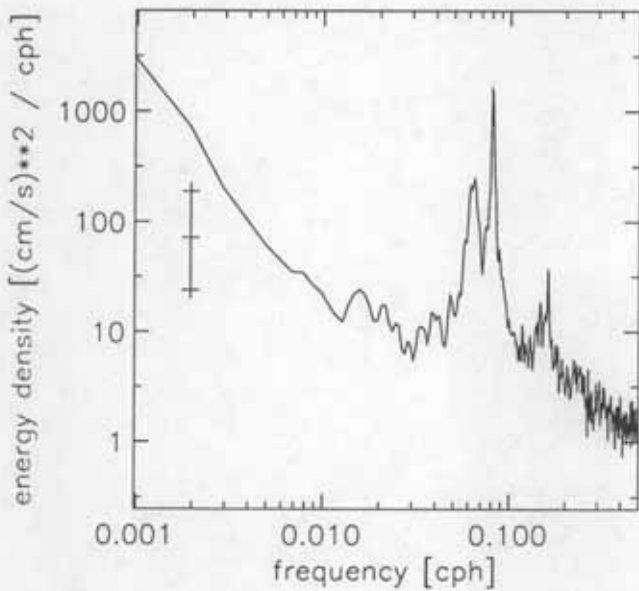


G1

record no: a95047, sampling interval = 60.0 minutes

u-component (zonal)

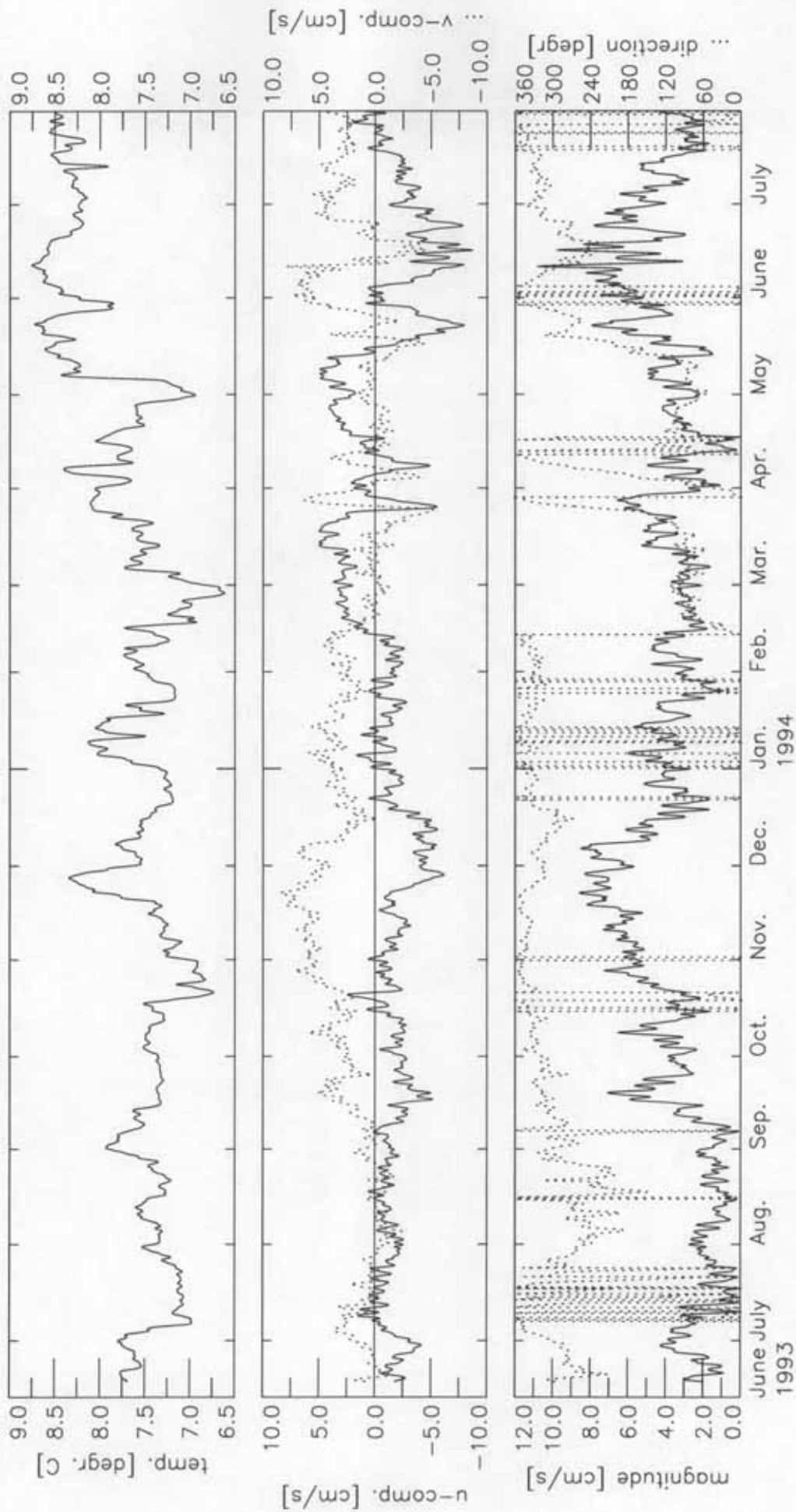
v-component (meridional)



16. 6.1993 22:00 - 15. 4.1994 0:00 (UTC)

Time marks (x) are given every 720 hours

G1, record no. = a95048, sampling depth = 1035 m

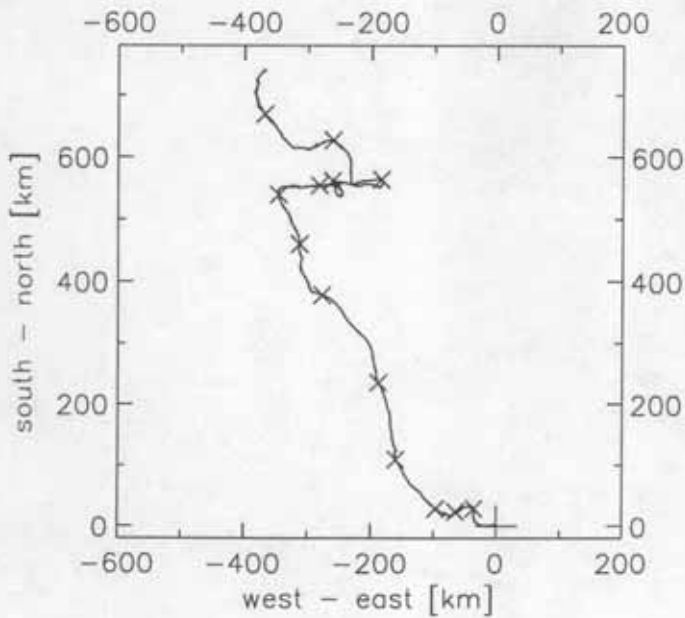
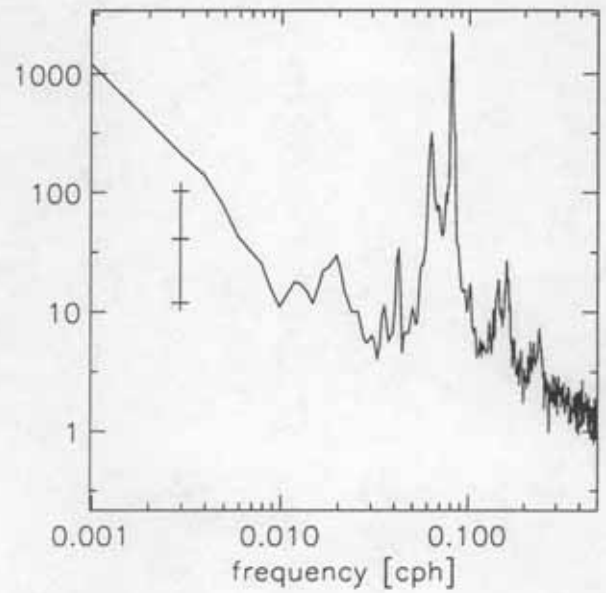
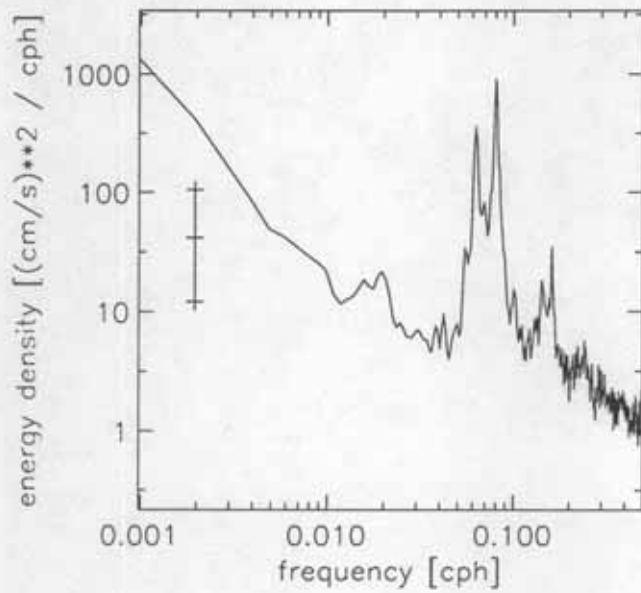


G1

record no: a95048, sampling interval = 60.0 minutes

u-component (zonal)

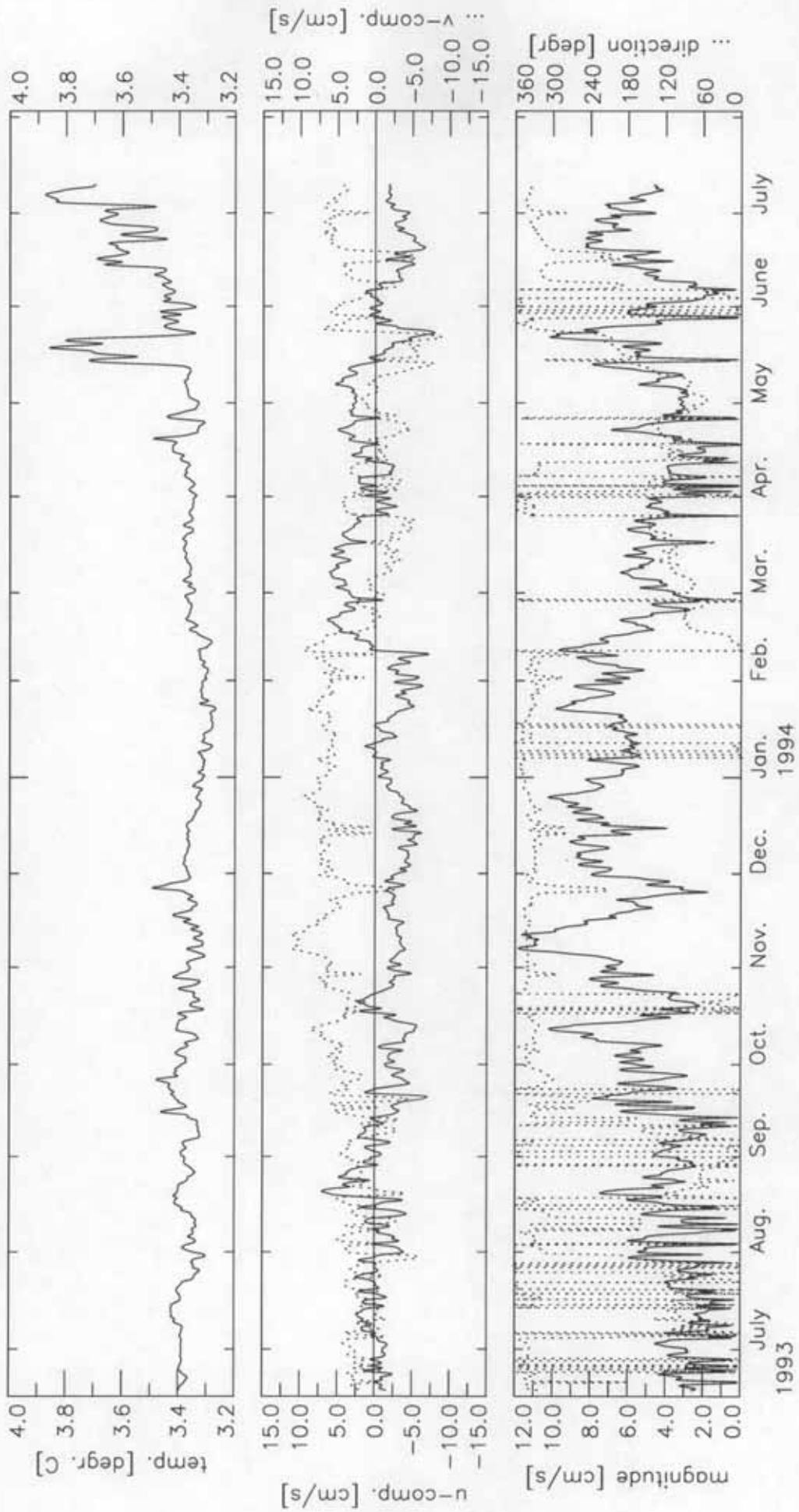
v-component (meridional)



16. 6.1993 22:00 - 5. 8.1994 14:00 (UTC)

Time marks (x) are given every 720 hours

G1, record no. = 095049, sampling depth = 1838 m

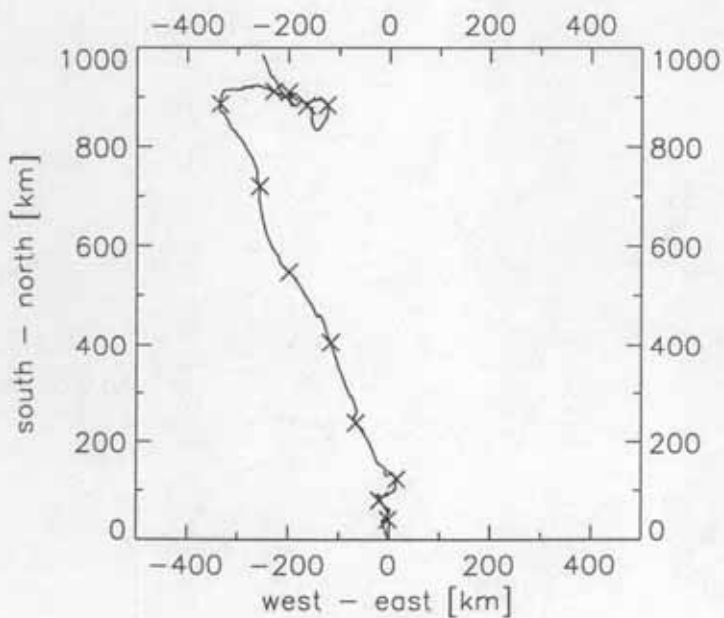
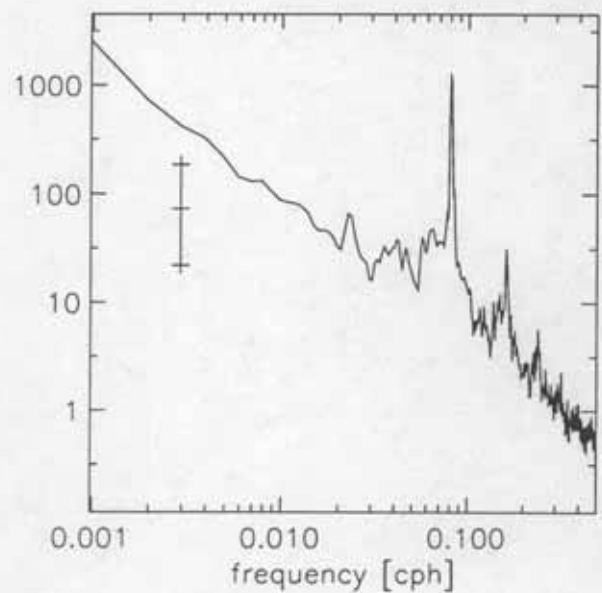
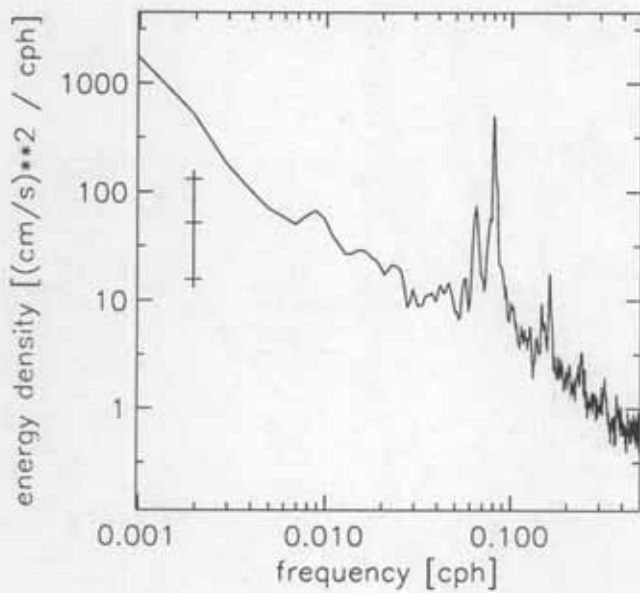


G1

record no: a95049, sampling interval = 60.0 minutes

u-component (zonal)

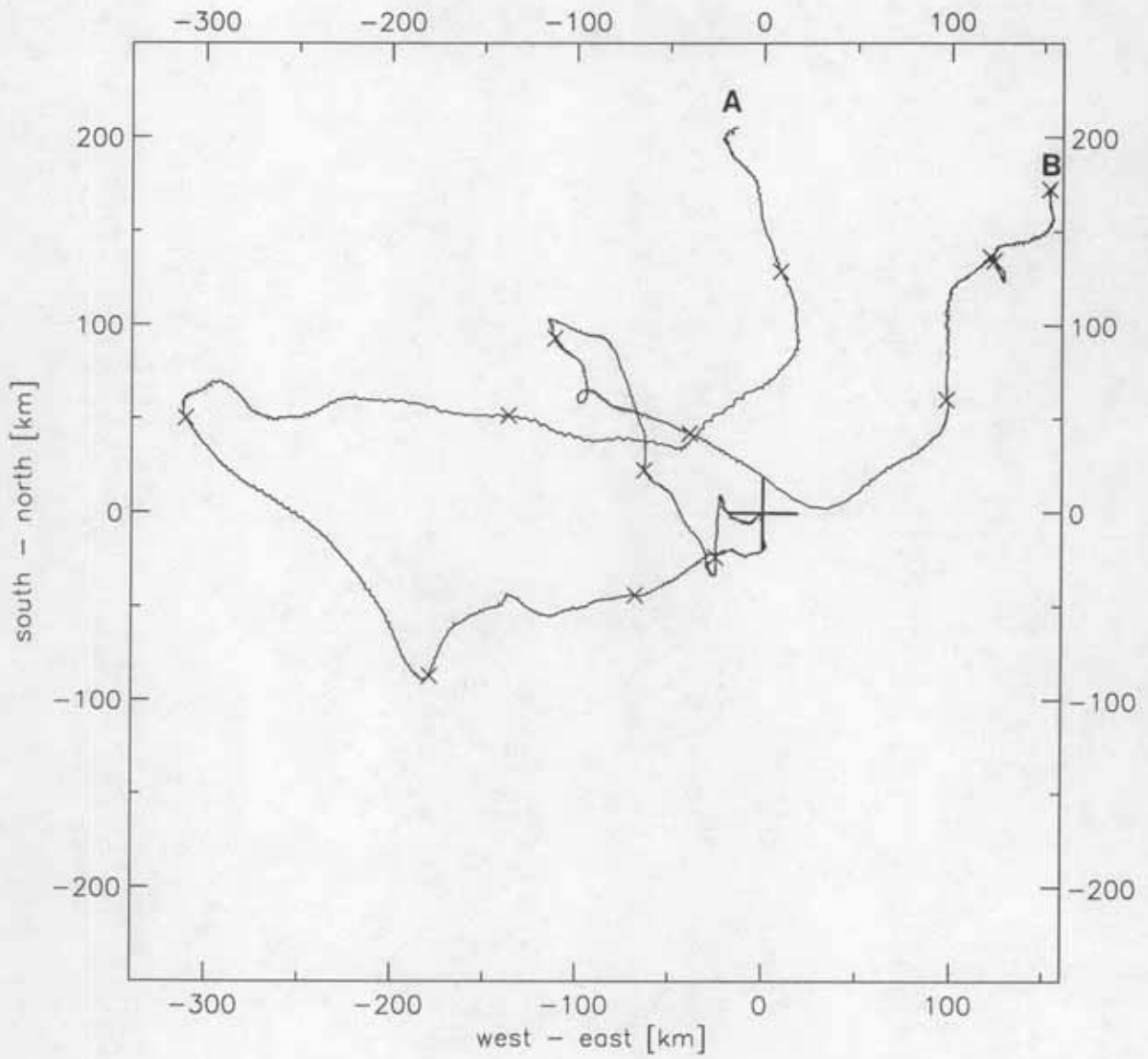
v-component (meridional)



16. 6.1993 22:00 - 11. 7.1994 7:00 (UTC)

Time marks (x) are given every 720 hours

G2

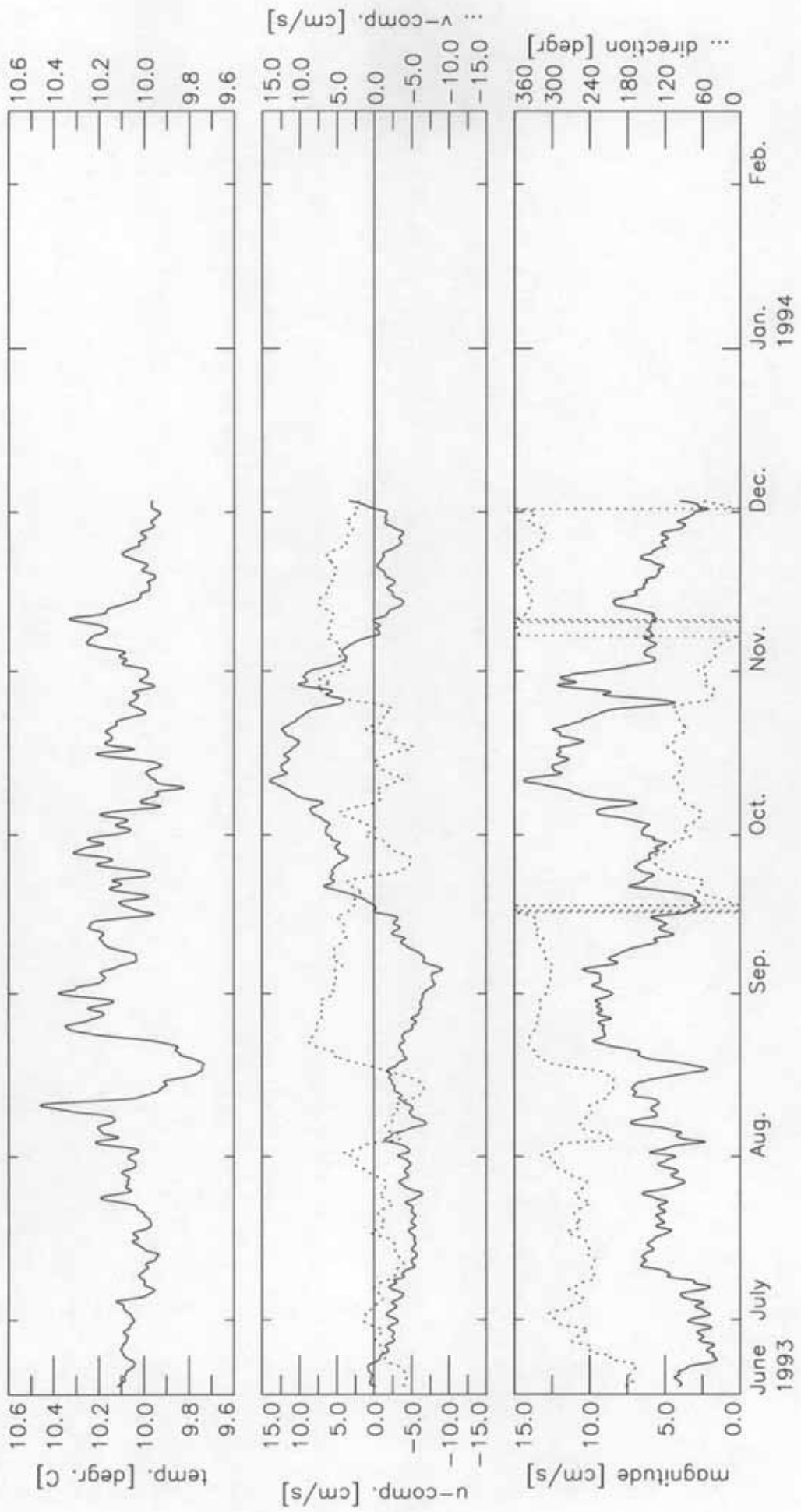


Time marks (x) are given every 720 hours

A o95051; sd= 370 m; 17. 6.1993 13:00 - 4.12.1993 4:00 (UTC)

B o95053; sd= 977 m; 17. 6.1993 13:00 - 15. 2.1994 2:00 (UTC)

G2, record no. = 095051, sampling depth = 370 m

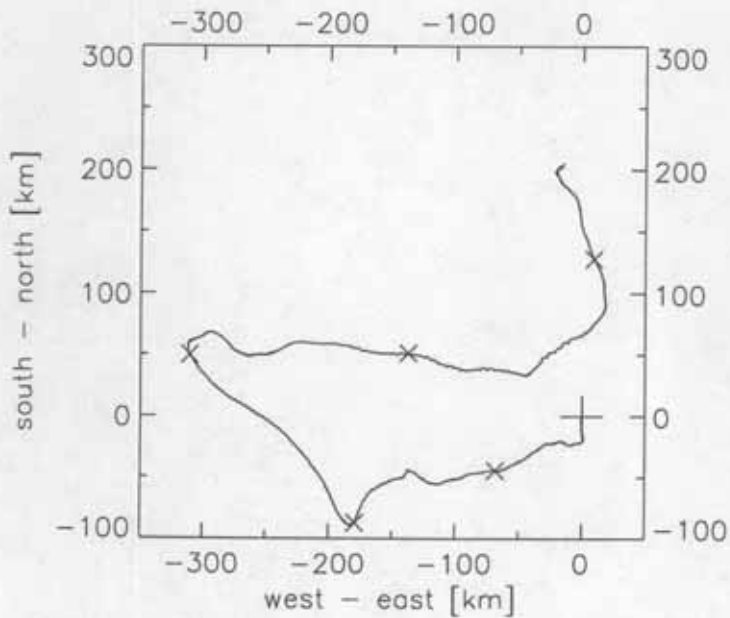
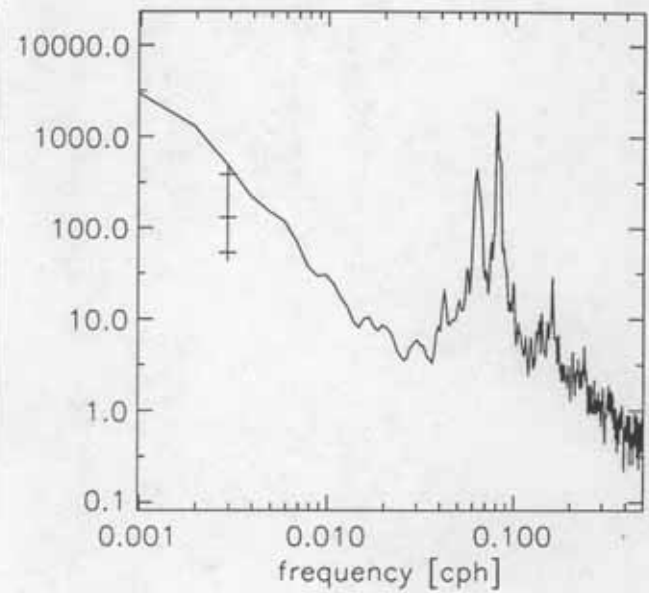
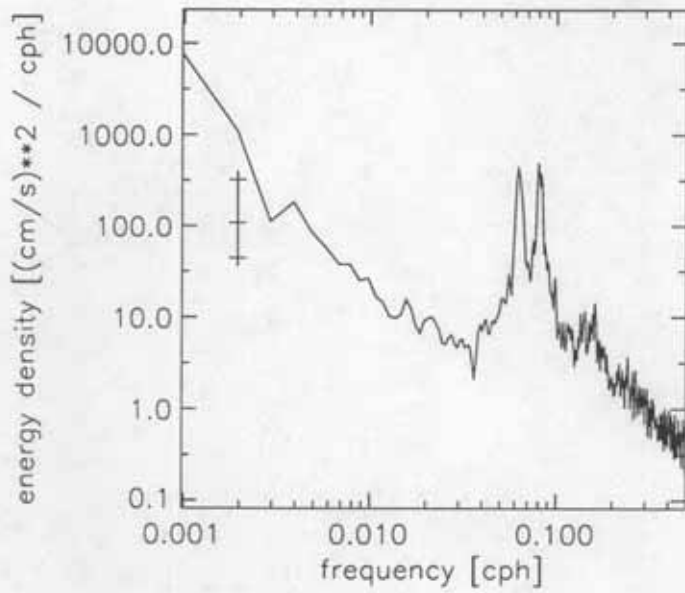


G2

record no: a95051, sampling interval = 60.0 minutes

u-component (zonal)

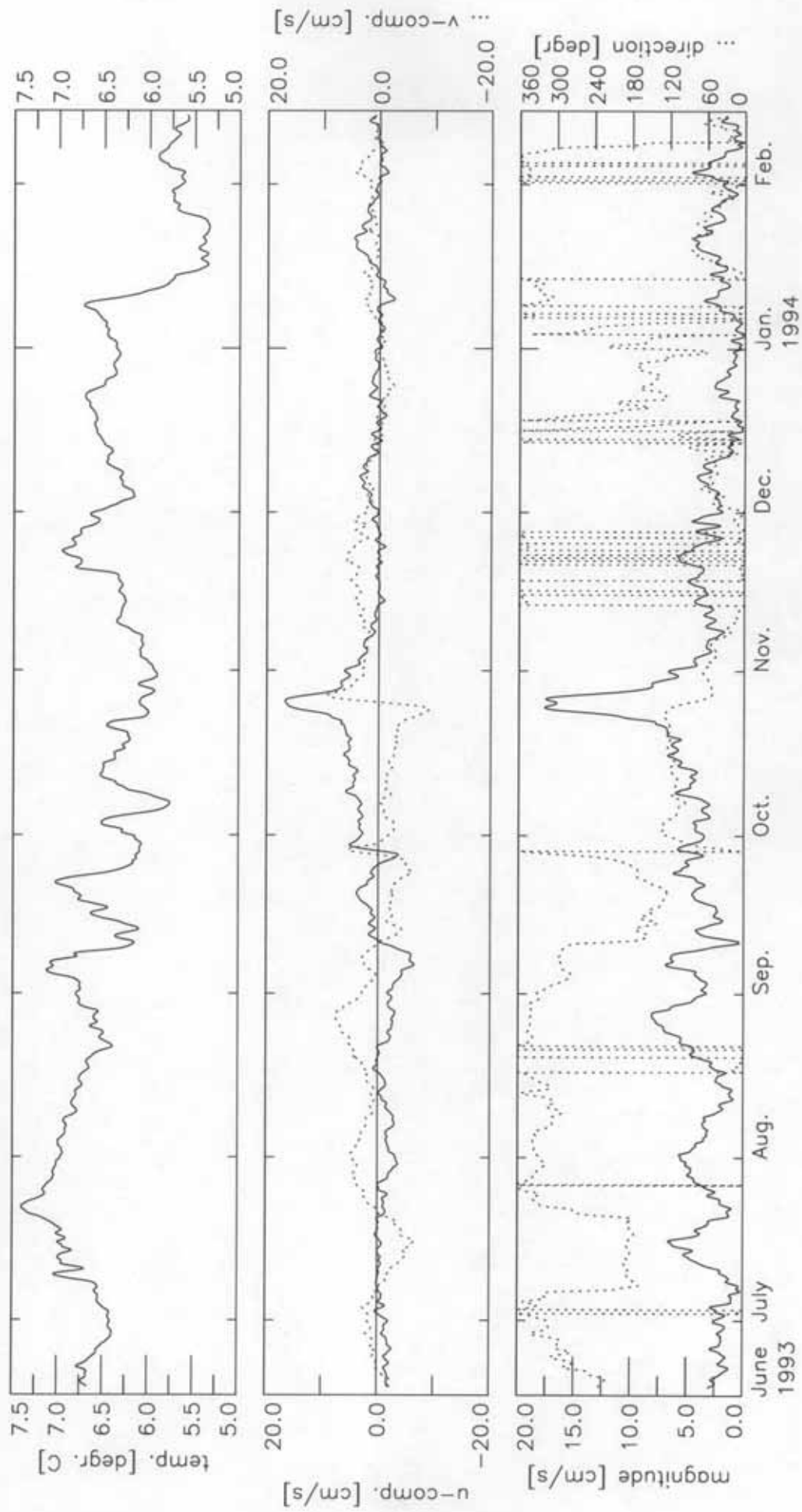
v-component (meridional)



17. 6.1993 12:00 - 4.12.1993 4:00 (UTC)

Time marks (x) are given every 720 hours

G2, record no. = a95053, sampling depth = 977 m

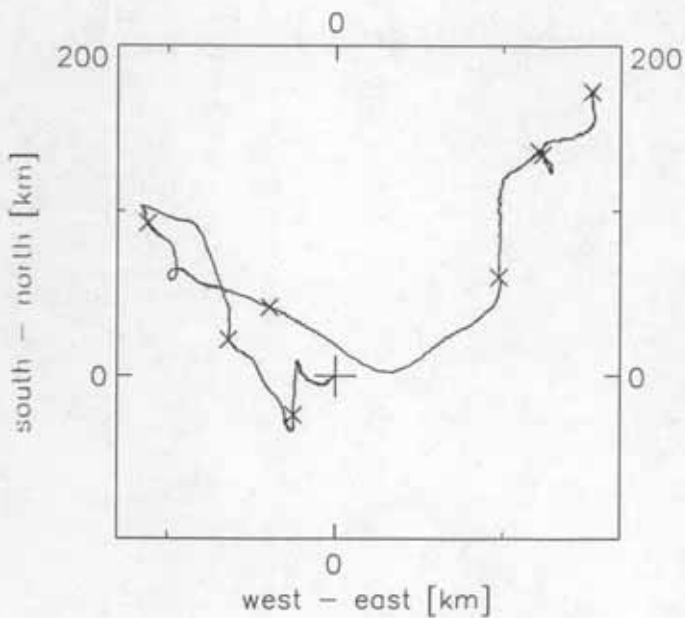
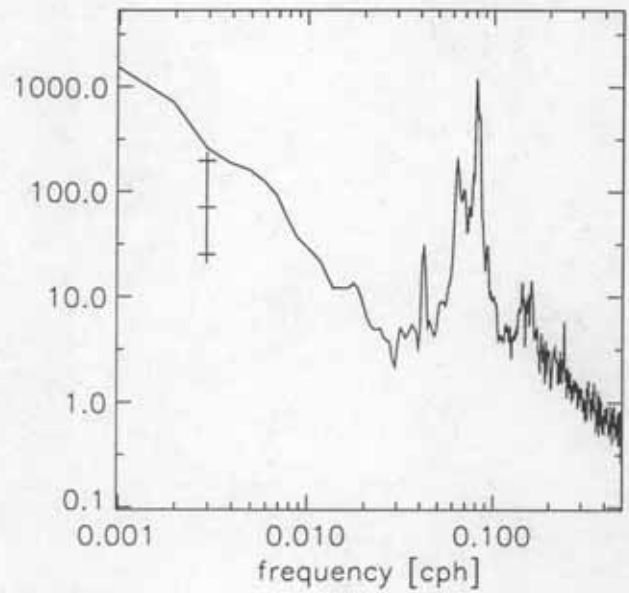
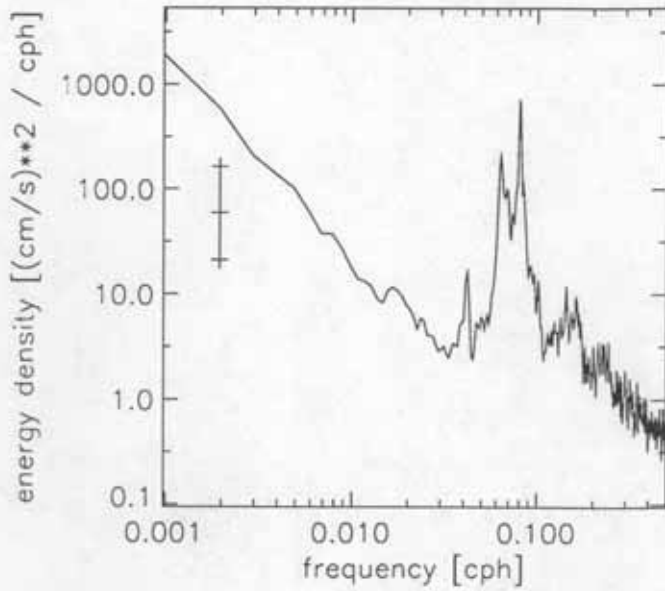


G2

record no: a95053, sampling interval = 60.0 minutes

u-component (zonal)

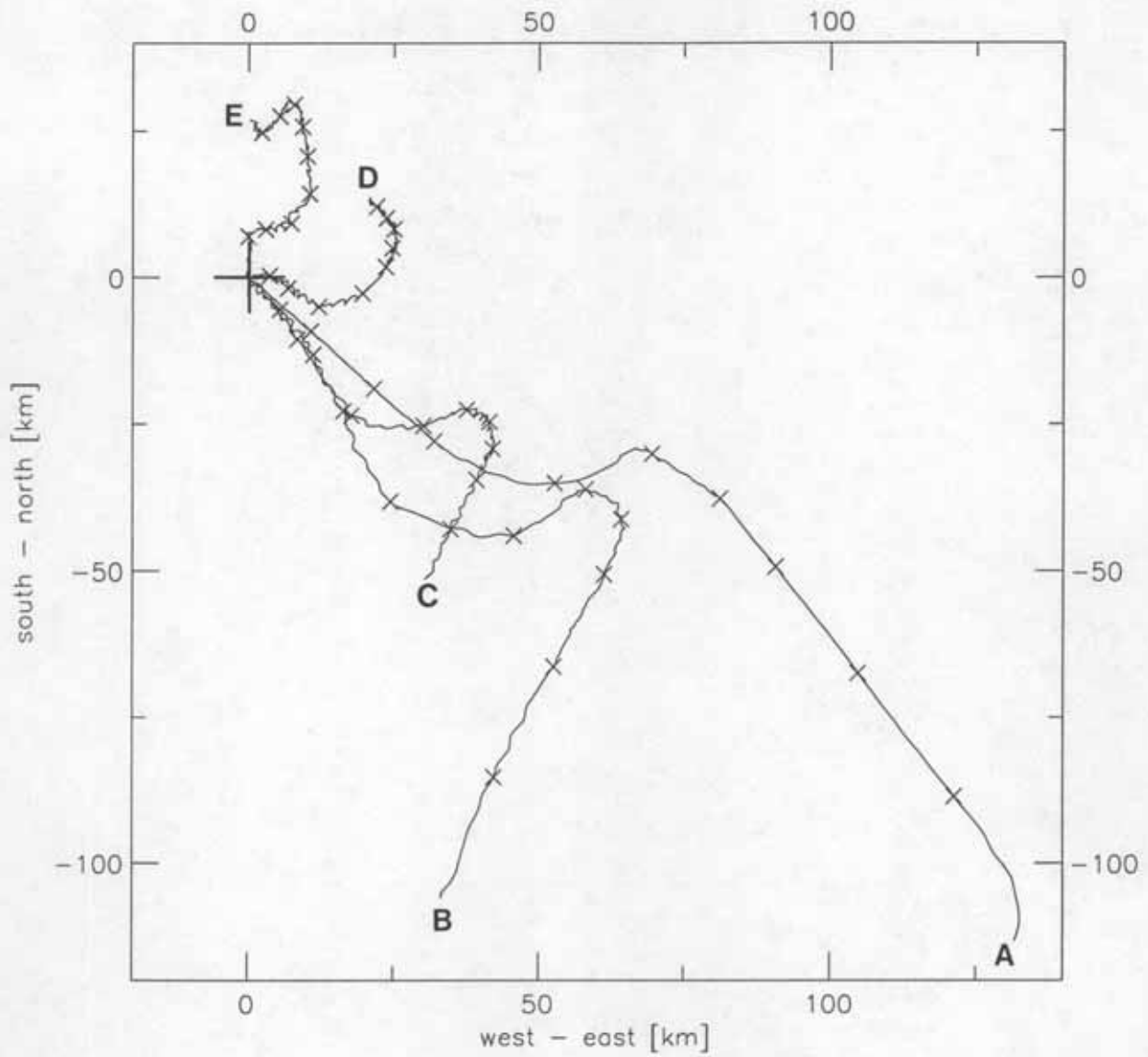
v-component (meridional)



17. 6.1993 13:00 - 15. 2.1994 2:00 (UTC)

Time marks (x) are given every 720 hours

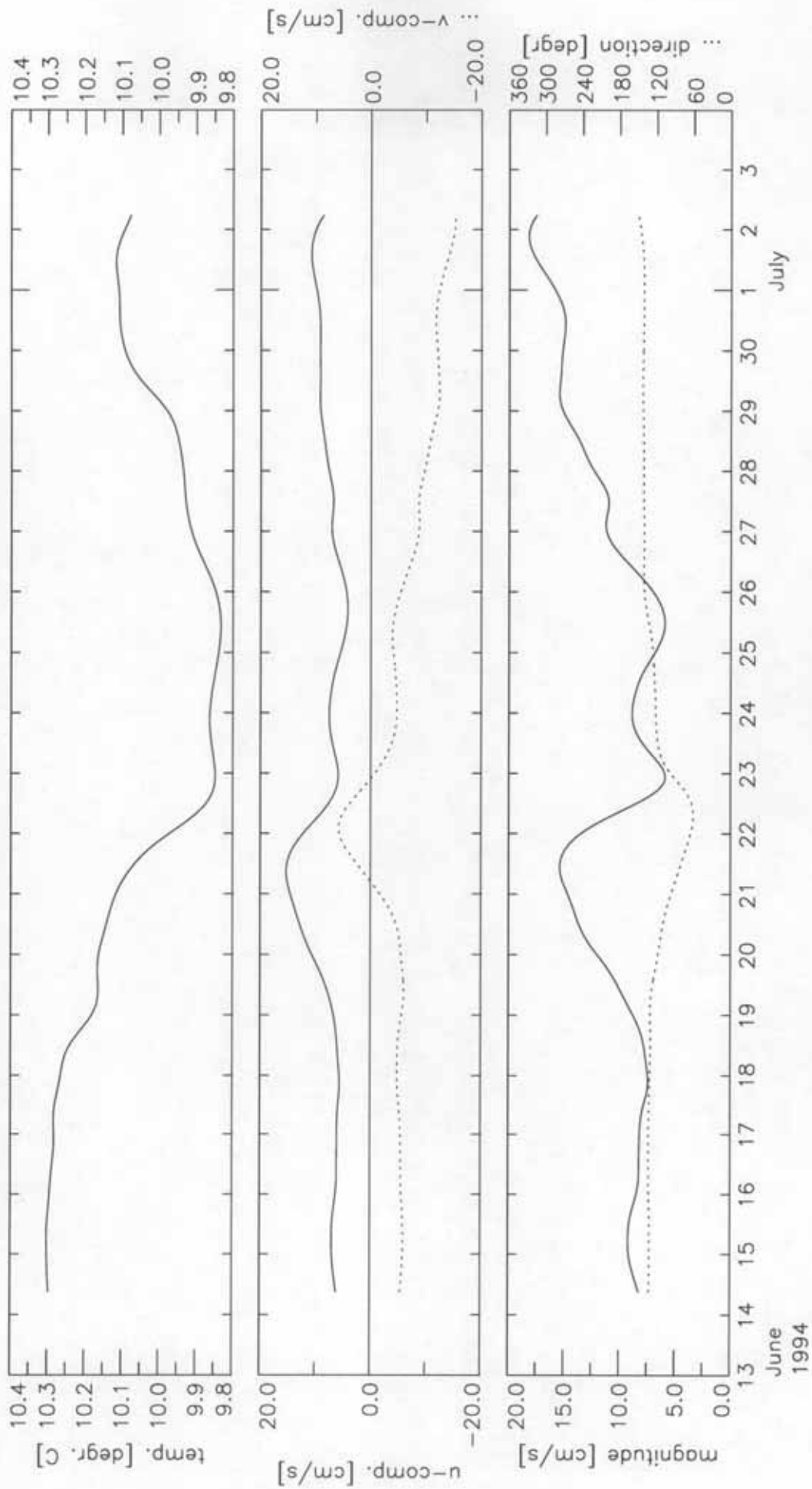
G3



Time marks (x) are given every 48 hours

A	o94037; sd= 367 m; 13. 6.1994	9:00 - 3. 7.1994	5:50 (UTC)
B	o94038; sd= 579 m; 13. 6.1994	9:00 - 3. 7.1994	5:50 (UTC)
C	o94039; sd= 881 m; 13. 6.1994	9:00 - 3. 7.1994	5:50 (UTC)
D	o94040; sd= 1383 m; 13. 6.1994	9:00 - 3. 7.1994	5:50 (UTC)
E	o94041; sd= 2085 m; 13. 6.1994	9:00 - 3. 7.1994	5:50 (UTC)

G3, record no. = a94037, sampling depth = 367 m

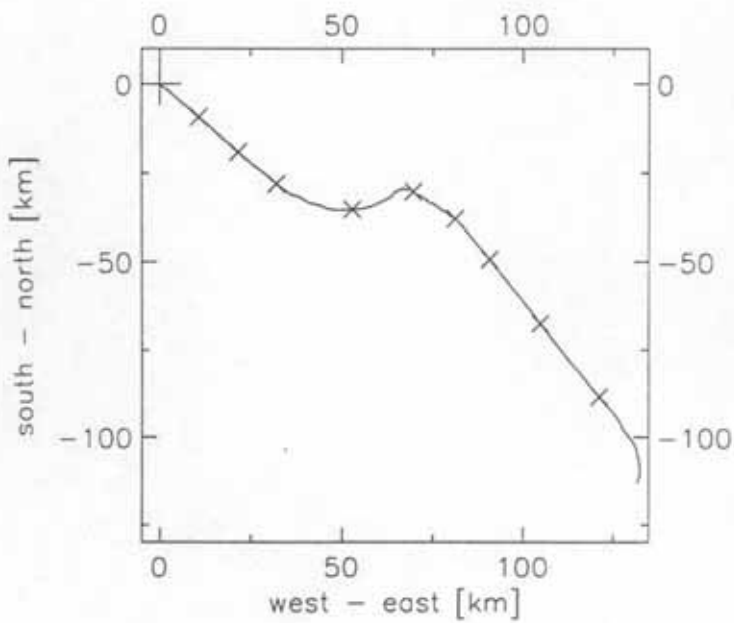
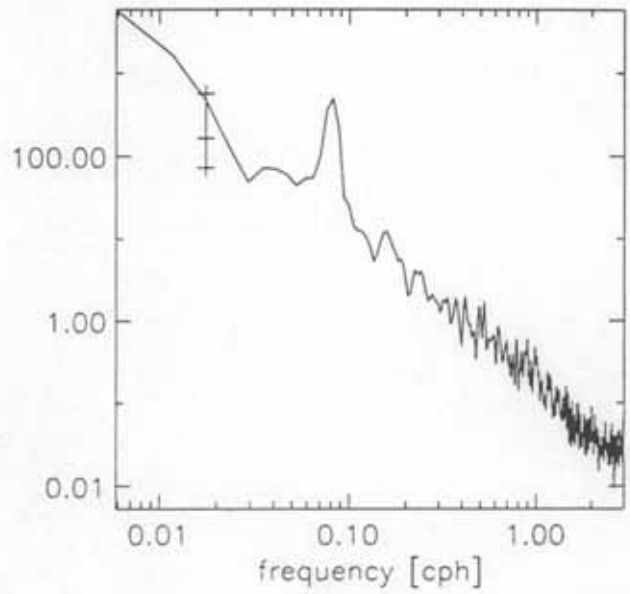
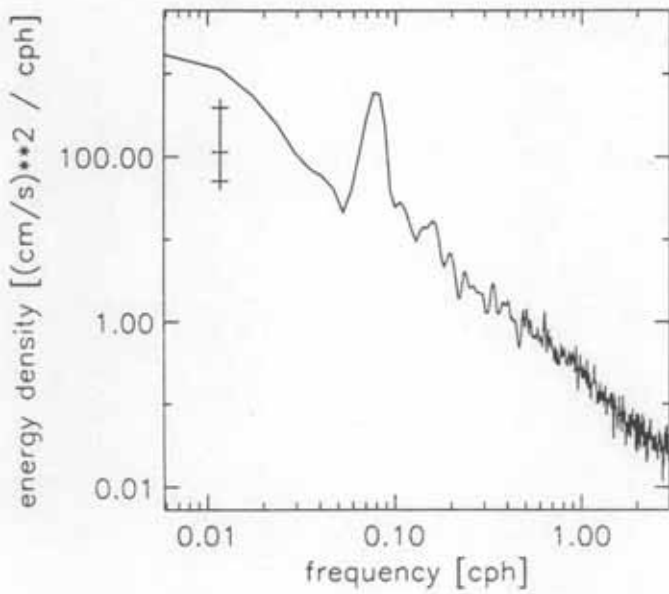


G3

record no: a94037, sampling interval = 10.0 minutes

u-component (zonal)

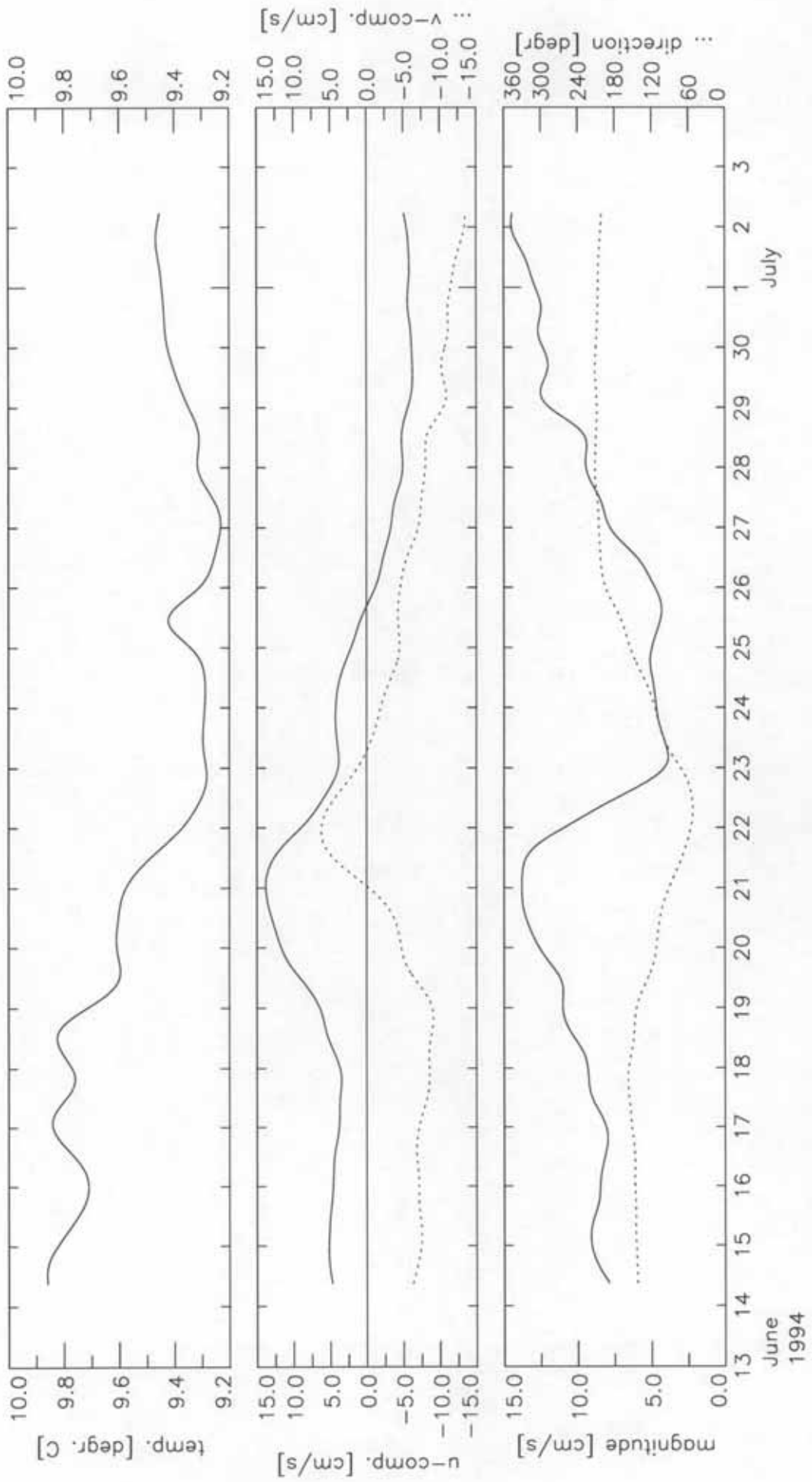
v-component (meridional)



13. 6.1994 9:00 - 3. 7.1994 5:50 (UTC)

Time marks (x) are given every 48 hours

G3, record no. = a94038, sampling depth = 579 m

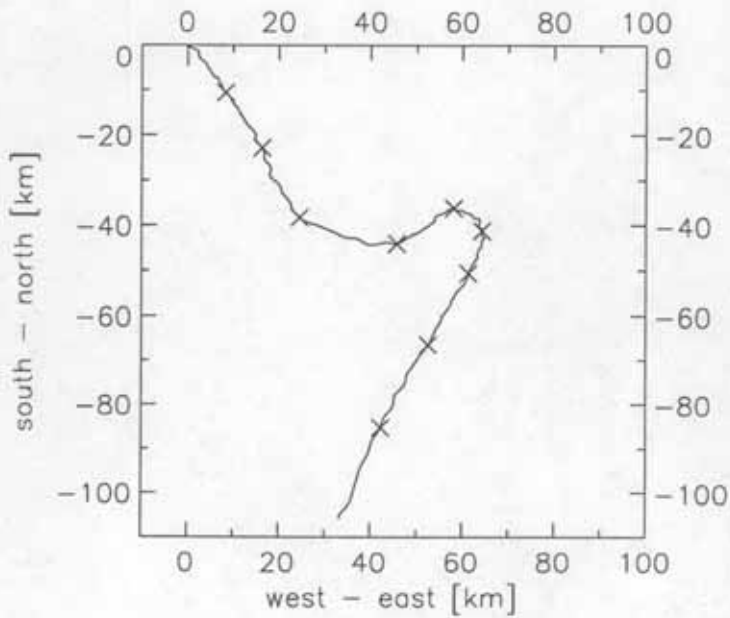
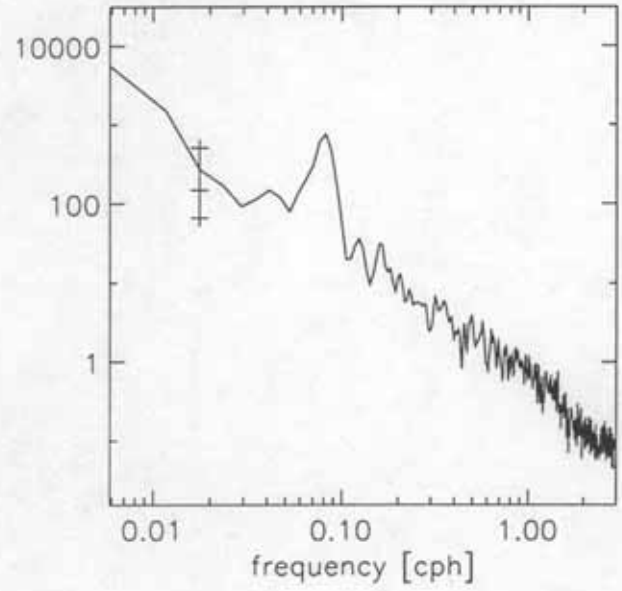
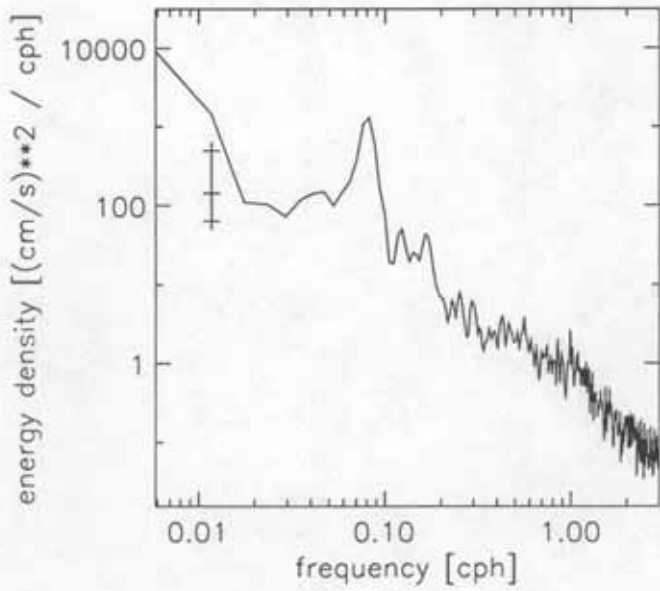


G3

record no: a94038, sampling interval = 10.0 minutes

u-component (zonal)

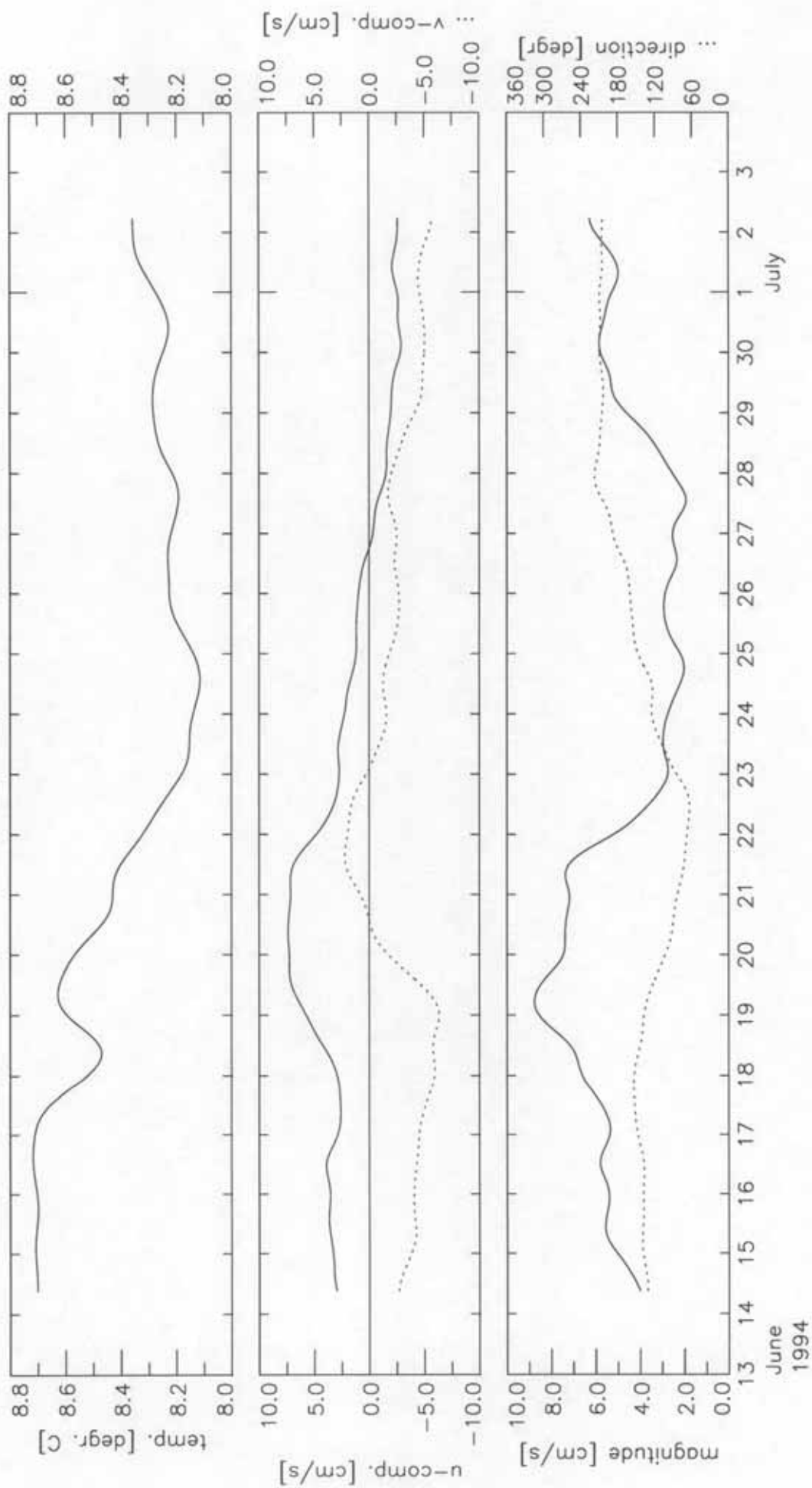
v-component (meridional)



13. 6.1994 9:00 - 3. 7.1994 5:50 (UTC)

Time marks (x) are given every 48 hours

G3, record no. = a94039, sampling depth = 881 m

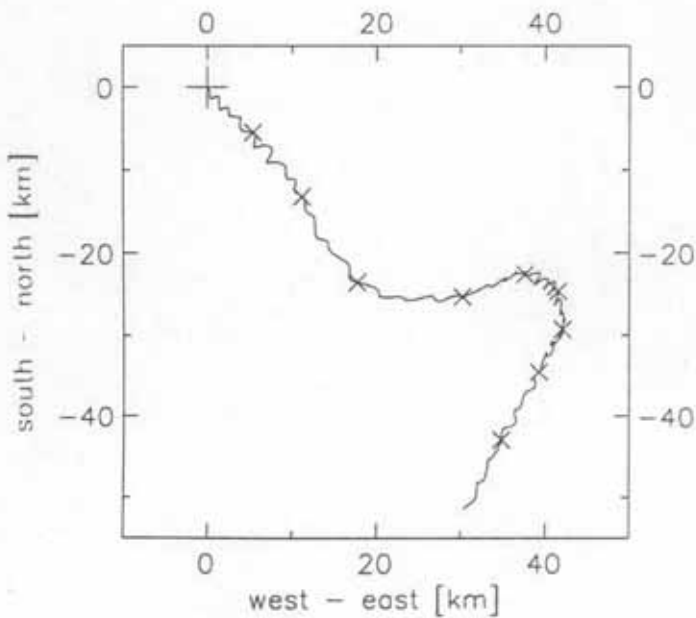
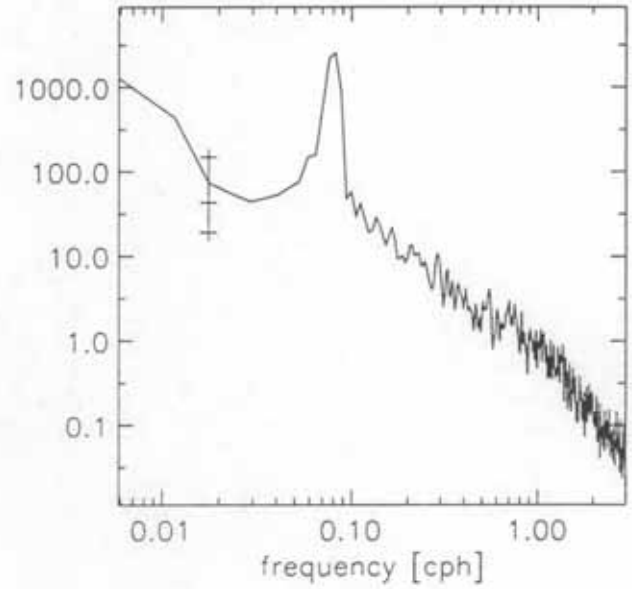
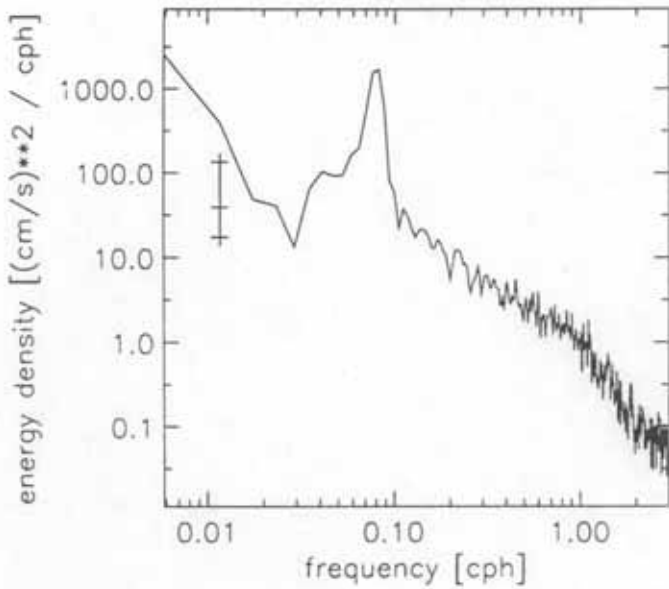


G3

record no: a94039, sampling interval = 10.0 minutes

u-component (zonal)

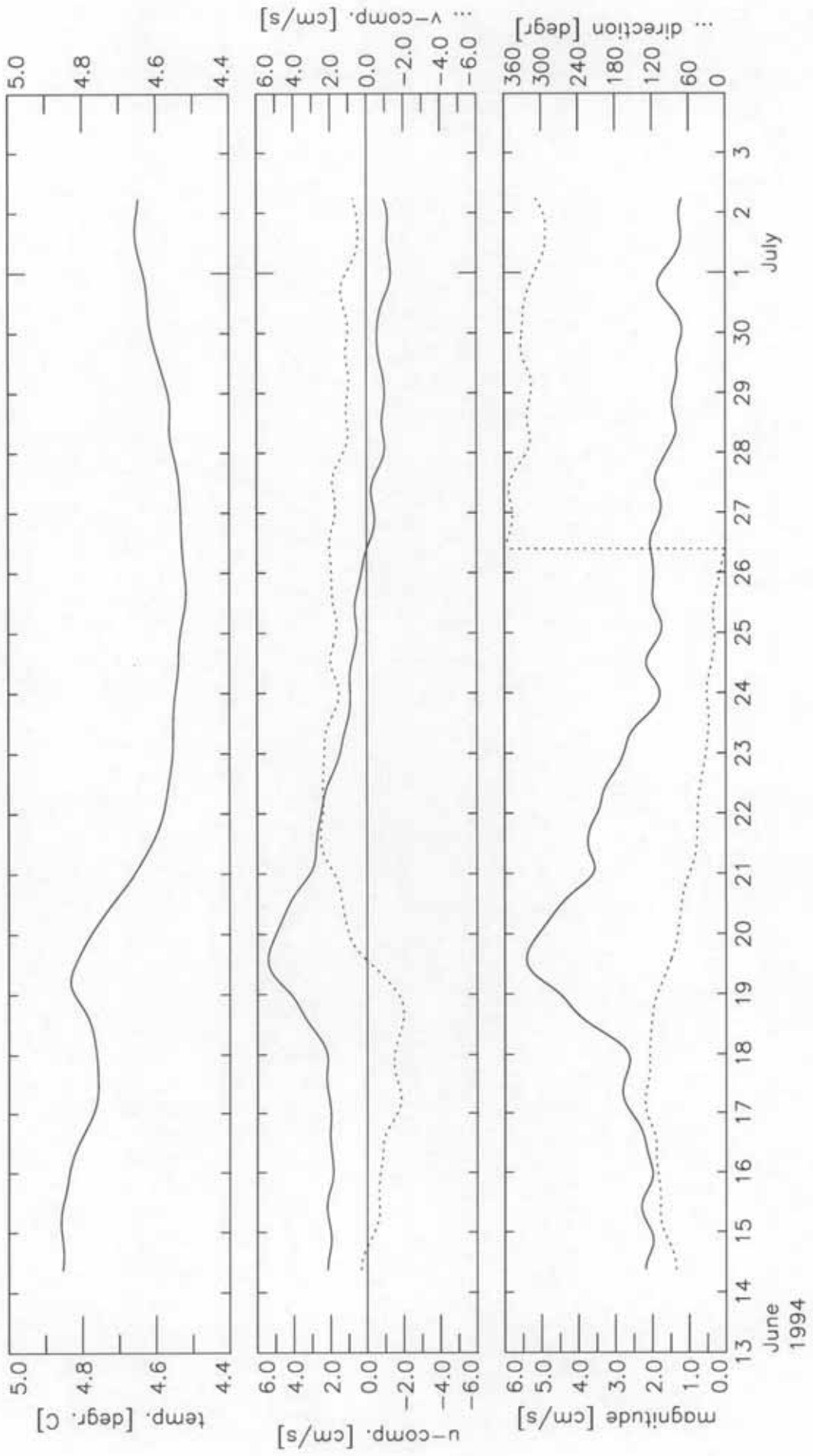
v-component (meridional)



13. 6.1994 9:00 - 3. 7.1994 5:50 (UTC)

Time marks (x) are given every 48 hours

G3, record no. = 094040, sampling depth = 1383 m

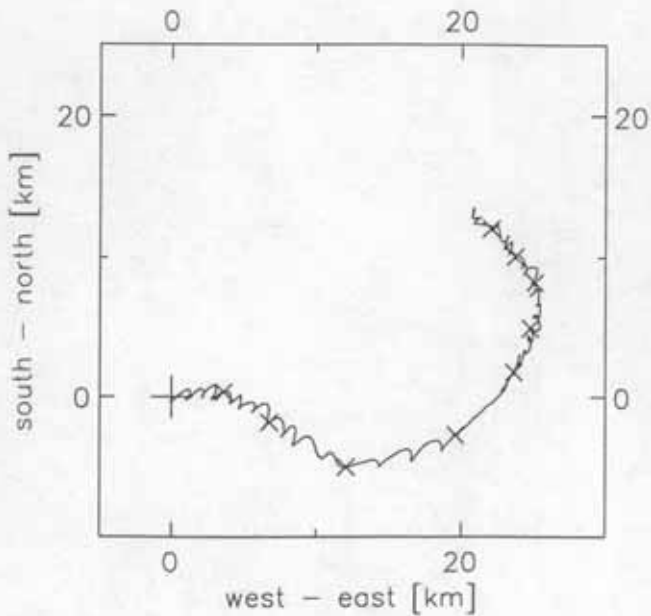
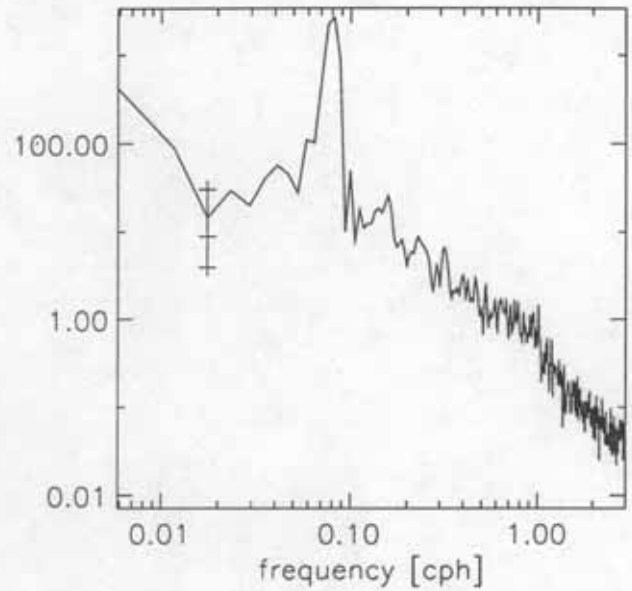
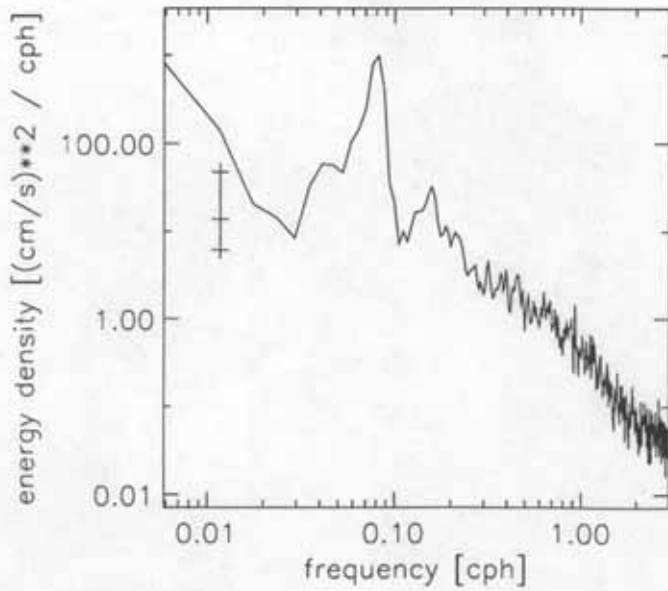


G3

record no: a94040, sampling interval = 10.0 minutes

u-component (zonal)

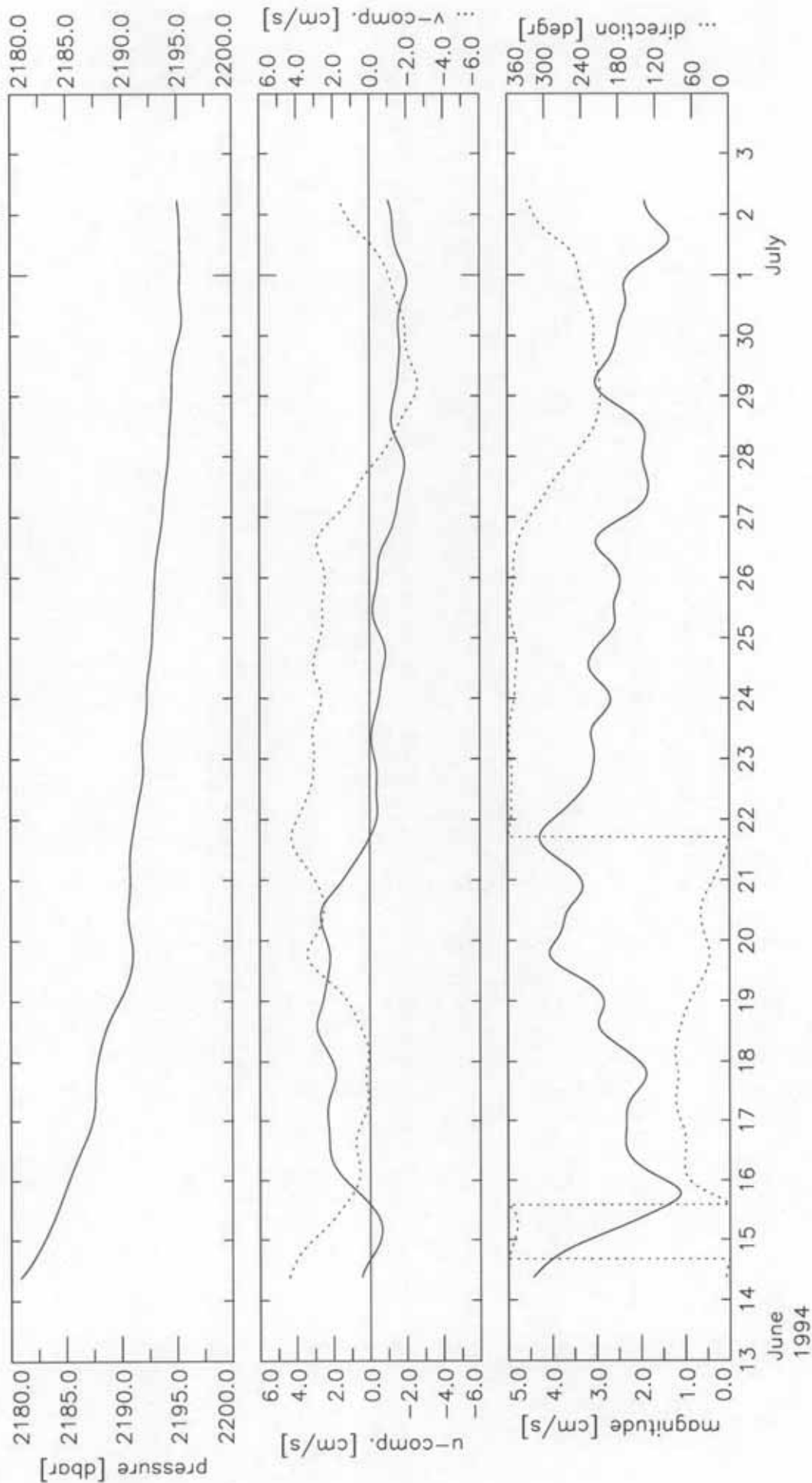
v-component (meridional)



13. 6.1994 9:00 - 3. 7.1994 5:50 (UTC)

Time marks (x) are given every 48 hours

G3, record no. = a94041, sampling depth = 2085 m

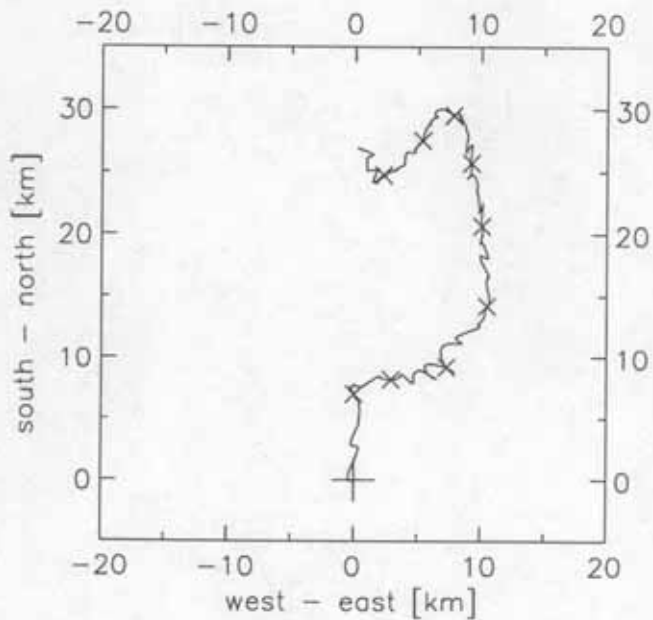
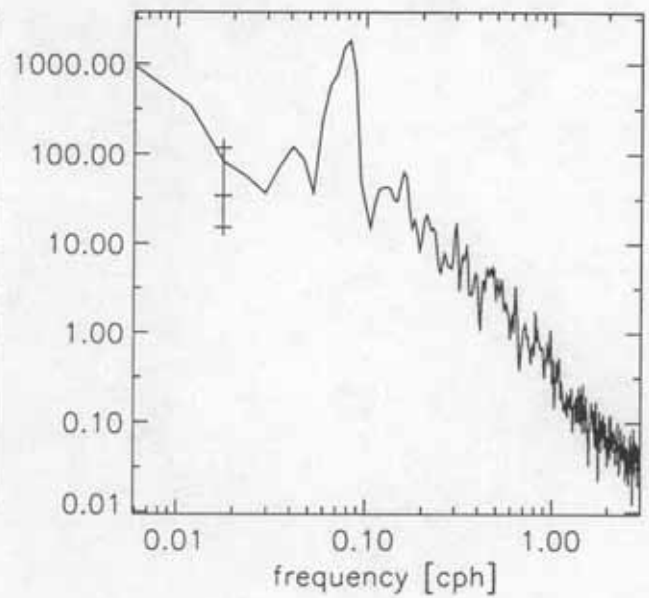
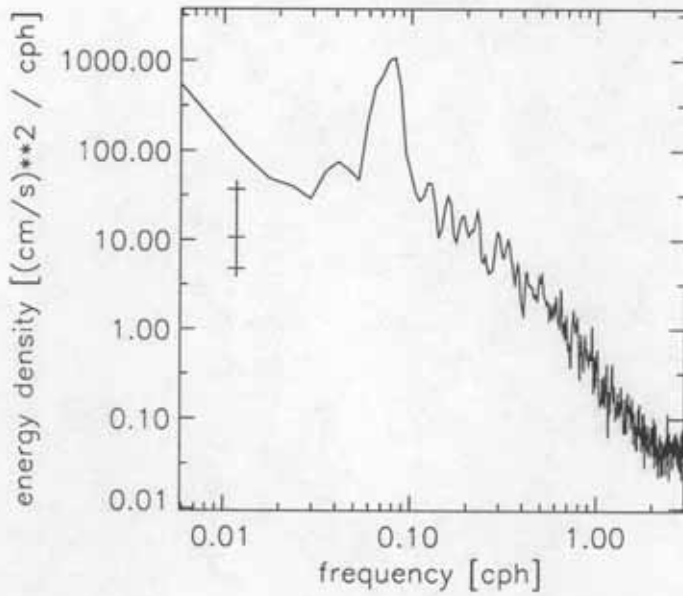


G3

record no: a94041, sampling interval = 10.0 minutes

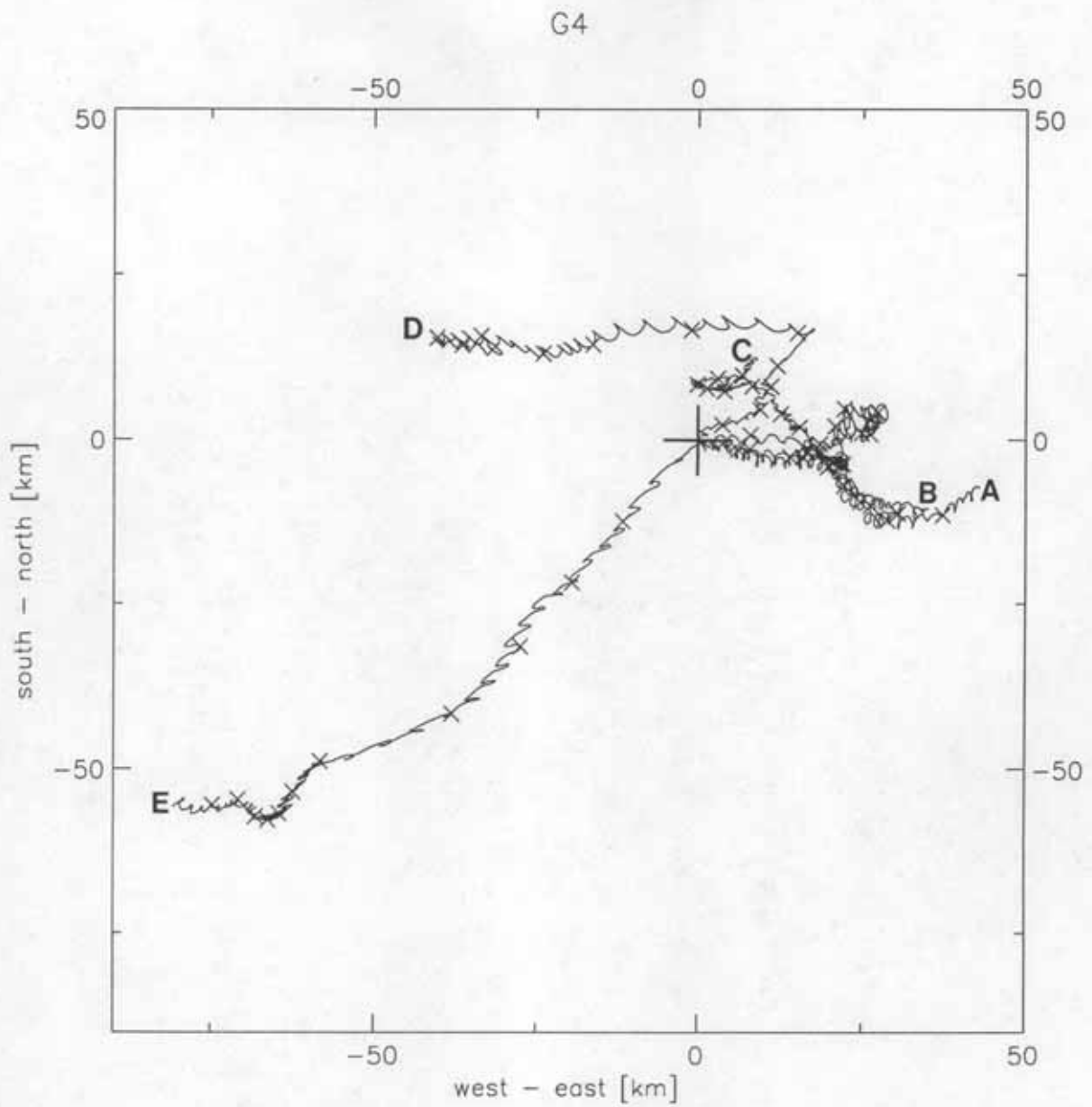
u-component (zonal)

v-component (meridional)



13. 6.1994 9:00 - 3. 7.1994 5:50 (UTC)

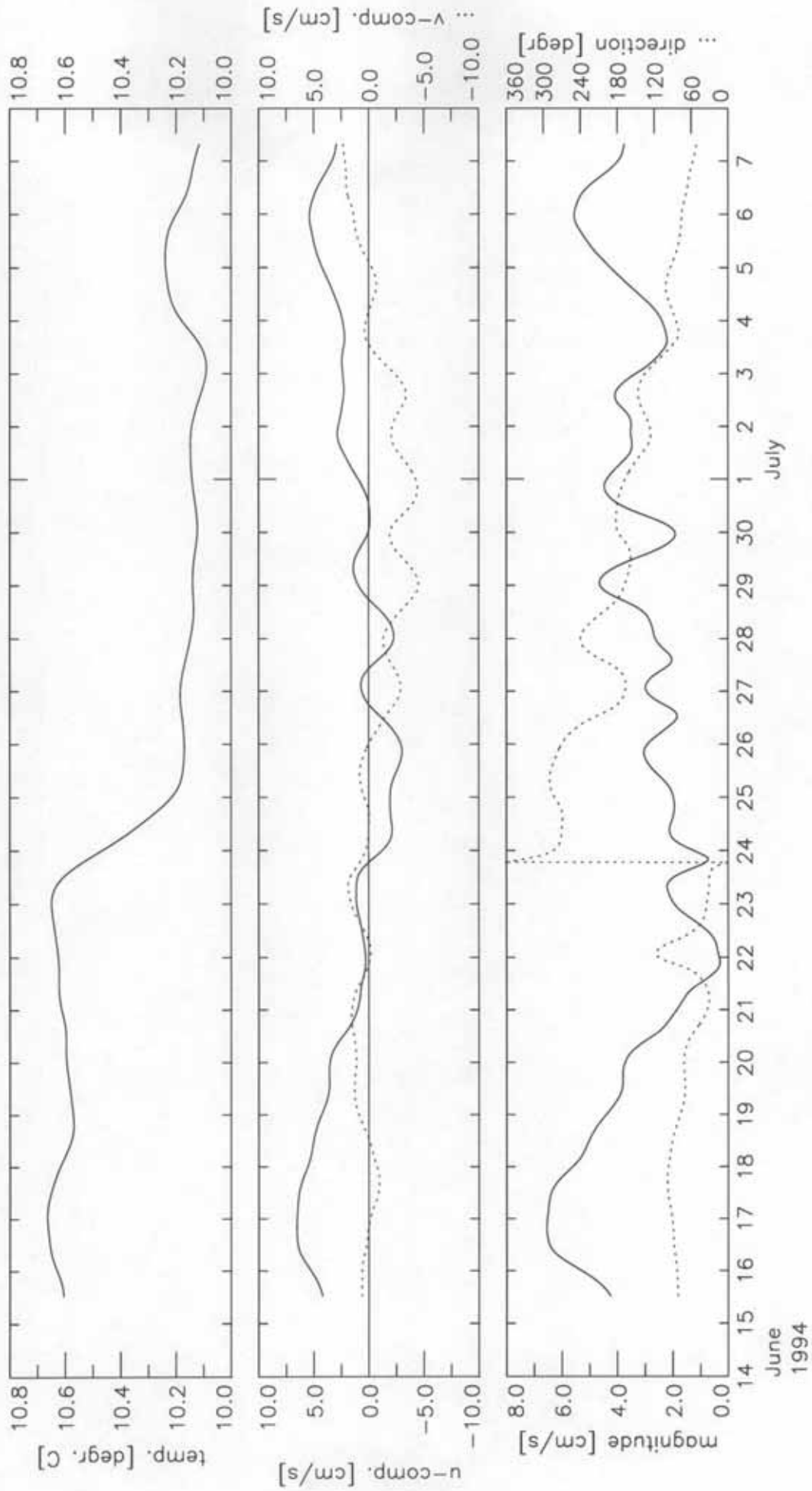
Time marks (x) are given every 48 hours



Time marks (x) are given every 48 hours

A 94036; sd= 435 m; 14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)
B 94035; sd= 587 m; 14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)
C 94034; sd= 739 m; 14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)
D 94033; sd= 941 m; 14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)
E 94031; sd= 2485 m; 14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)

G4, record no. = a94036, sampling depth = 435 m

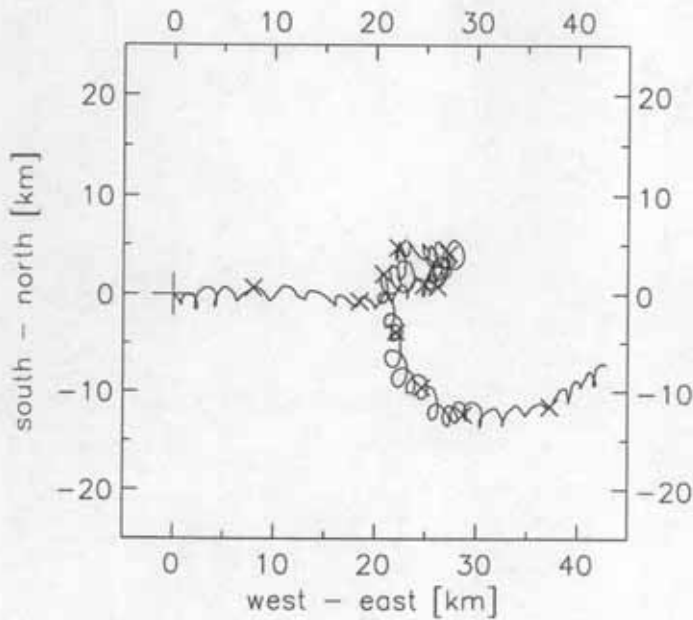
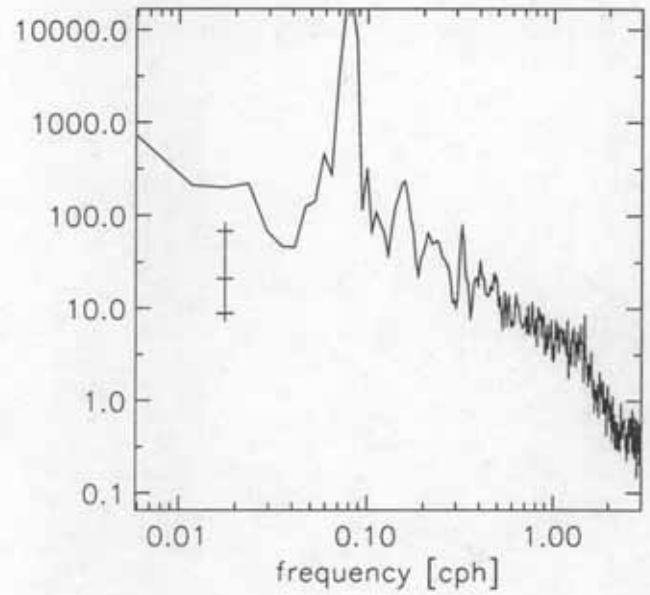
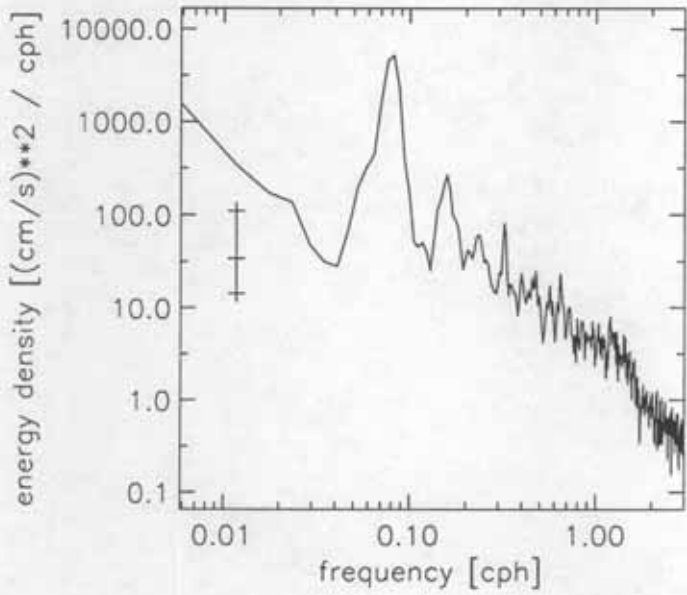


G4

record no: a94036, sampling interval = 10.0 minutes

u-component (zonal)

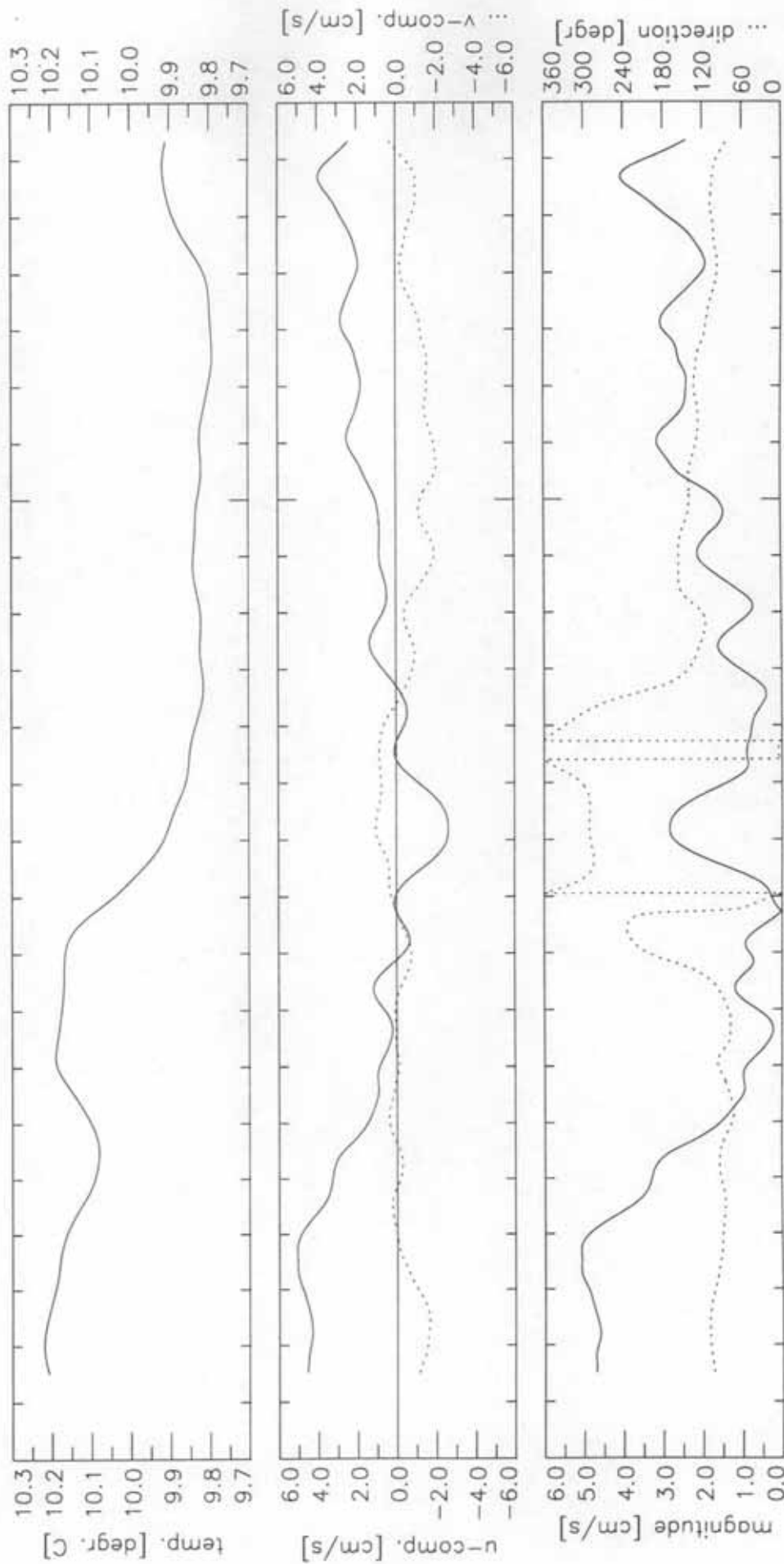
v-component (meridional)



14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)

Time marks (x) are given every 48 hours

G4, record no. = a94035, sampling depth = 587 m

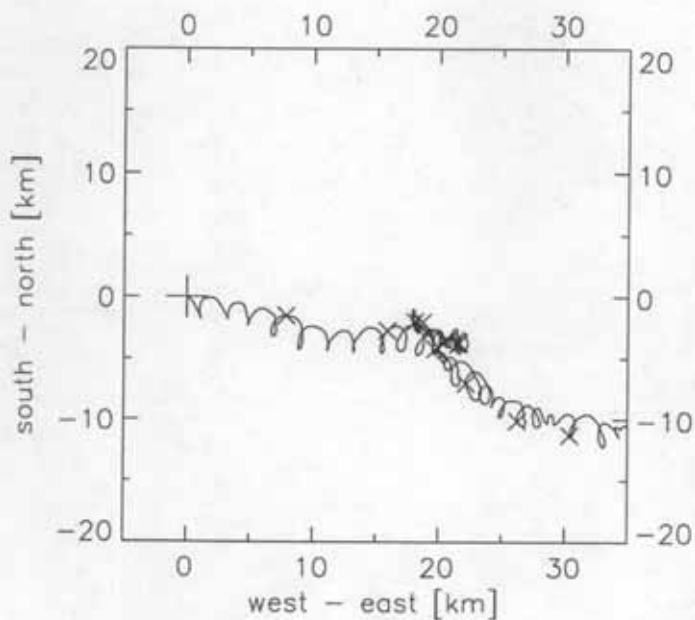
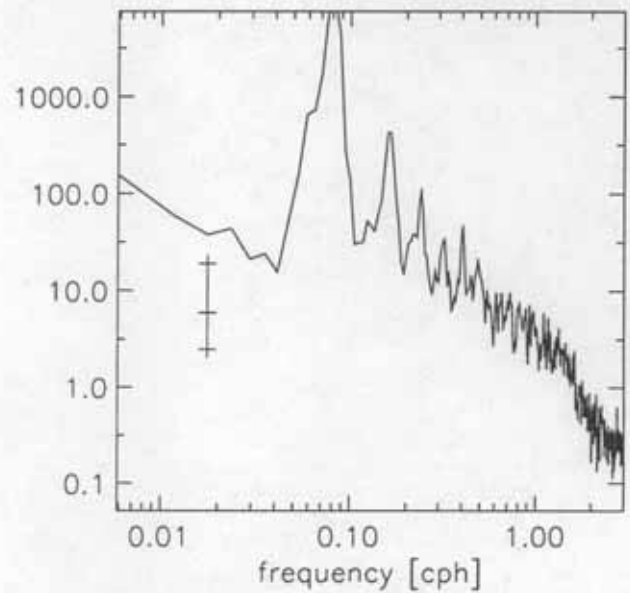
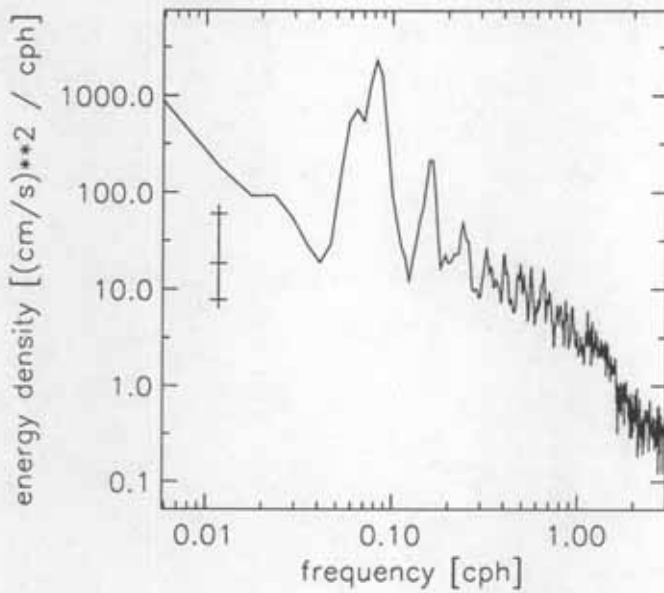


G4

record no: a94035, sampling interval = 10.0 minutes

u-component (zonal)

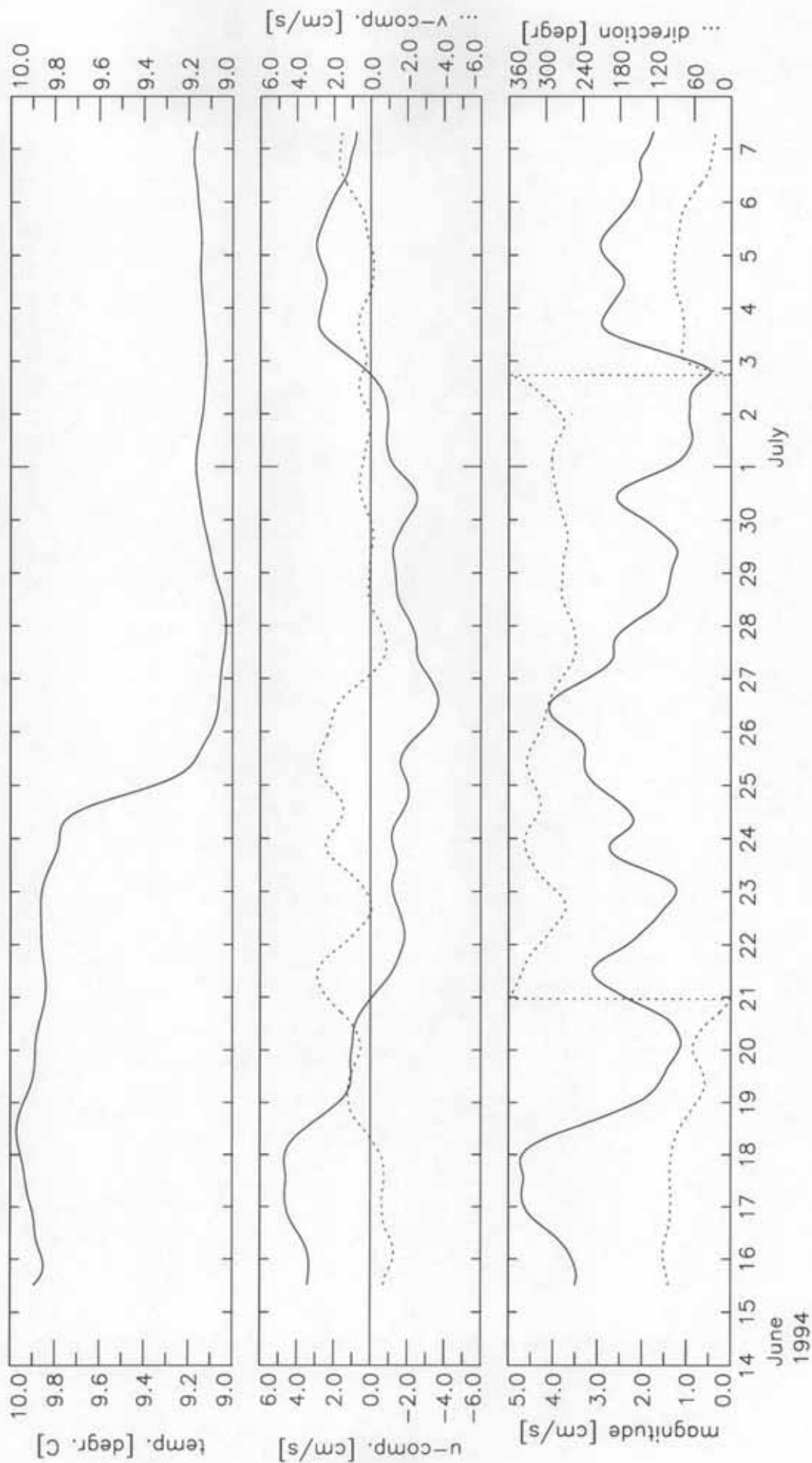
v-component (meridional)



14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)

Time marks (x) are given every 48 hours

G4, record no. = a94034, sampling depth = 739 m

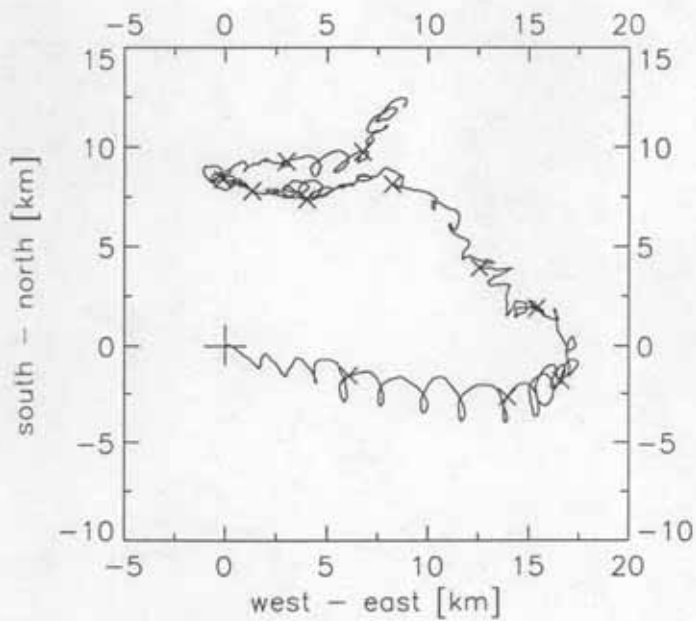
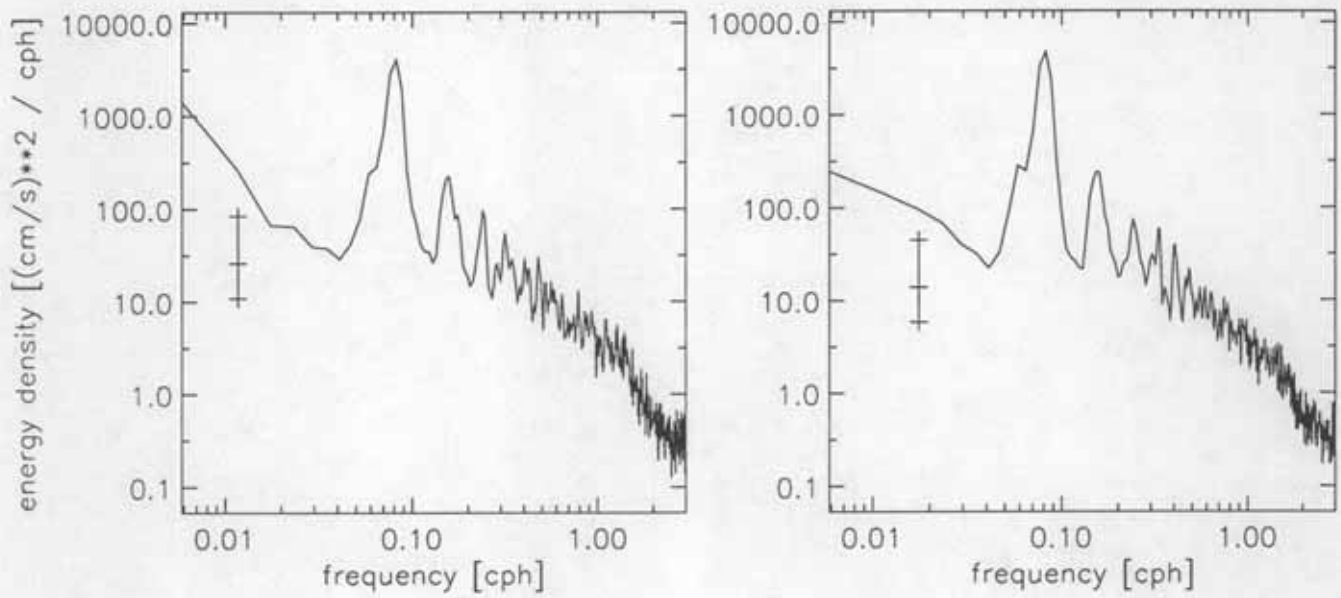


G4

record no: a94034, sampling interval = 10.0 minutes

u-component (zonal)

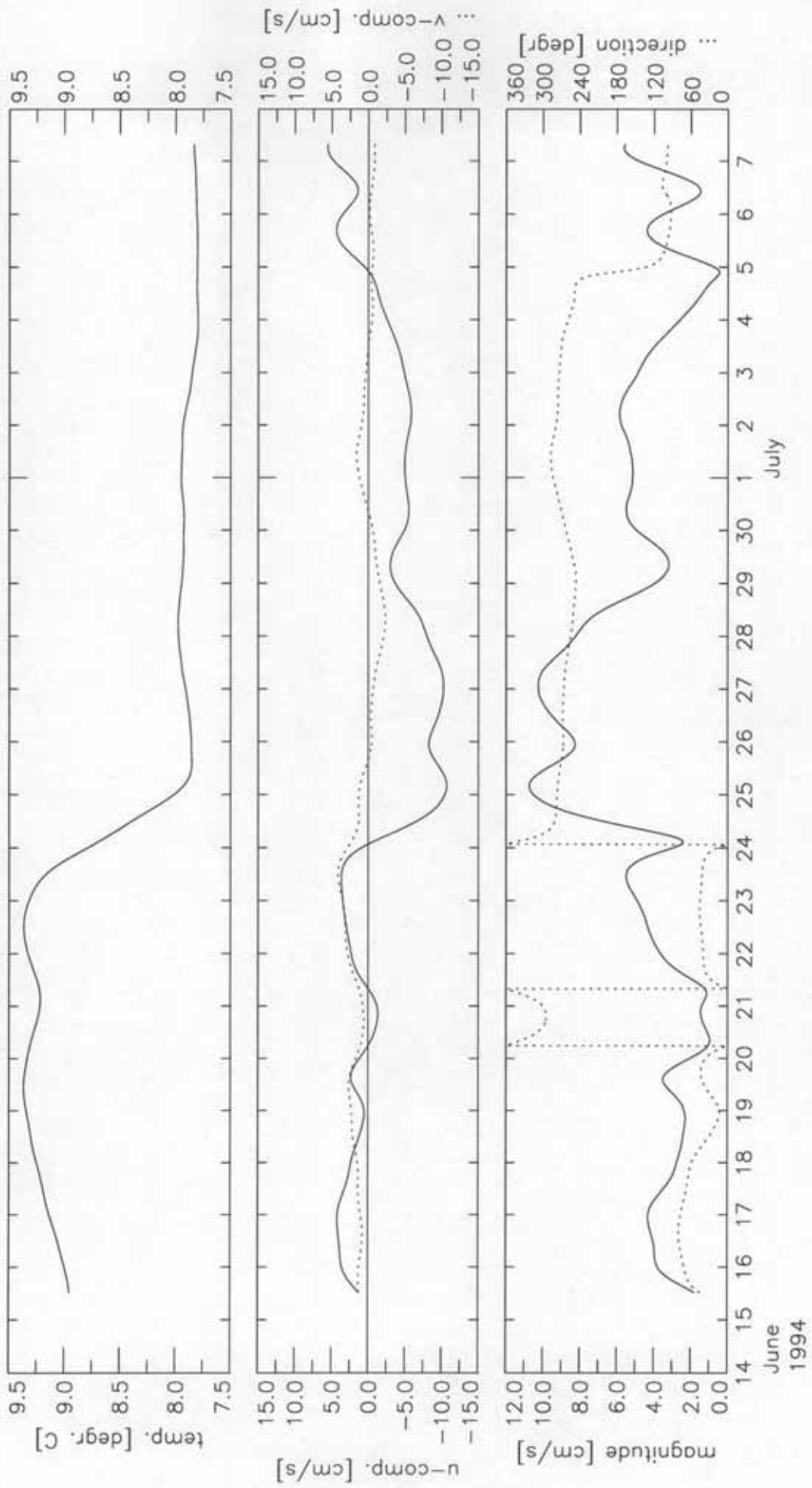
v-component (meridional)



14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)

Time marks (x) are given every 48 hours

G4, record no. = a94033, sampling depth = 941 m

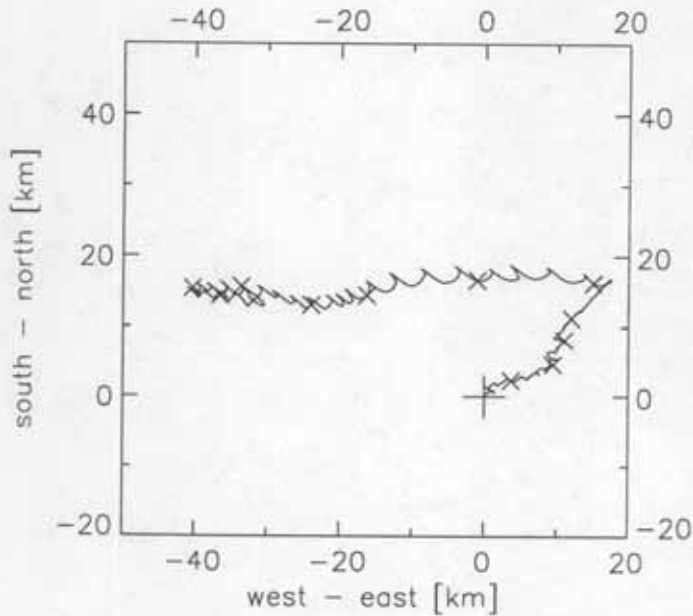
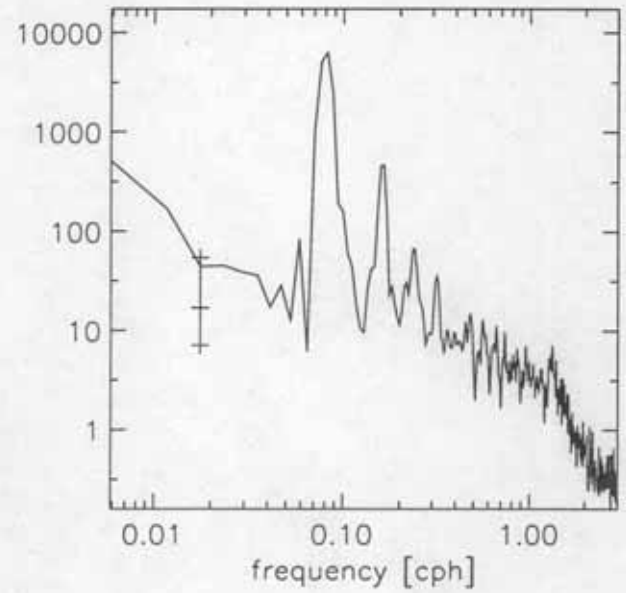
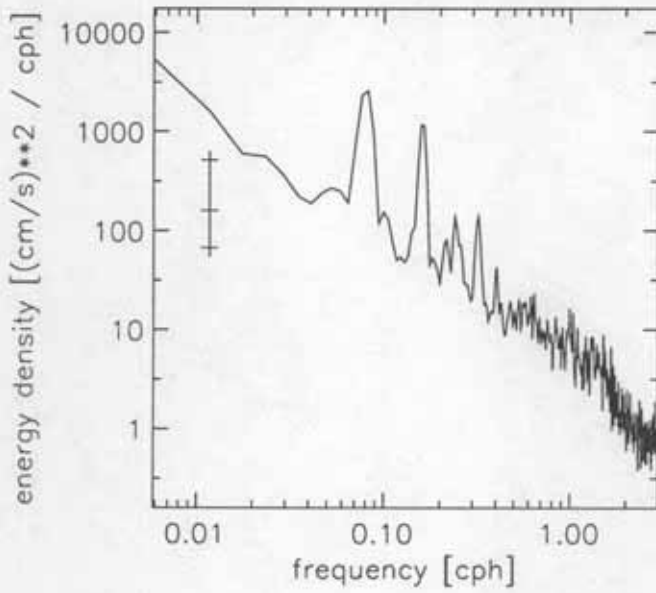


G4

record no: a94033, sampling interval = 10.0 minutes

u-component (zonal)

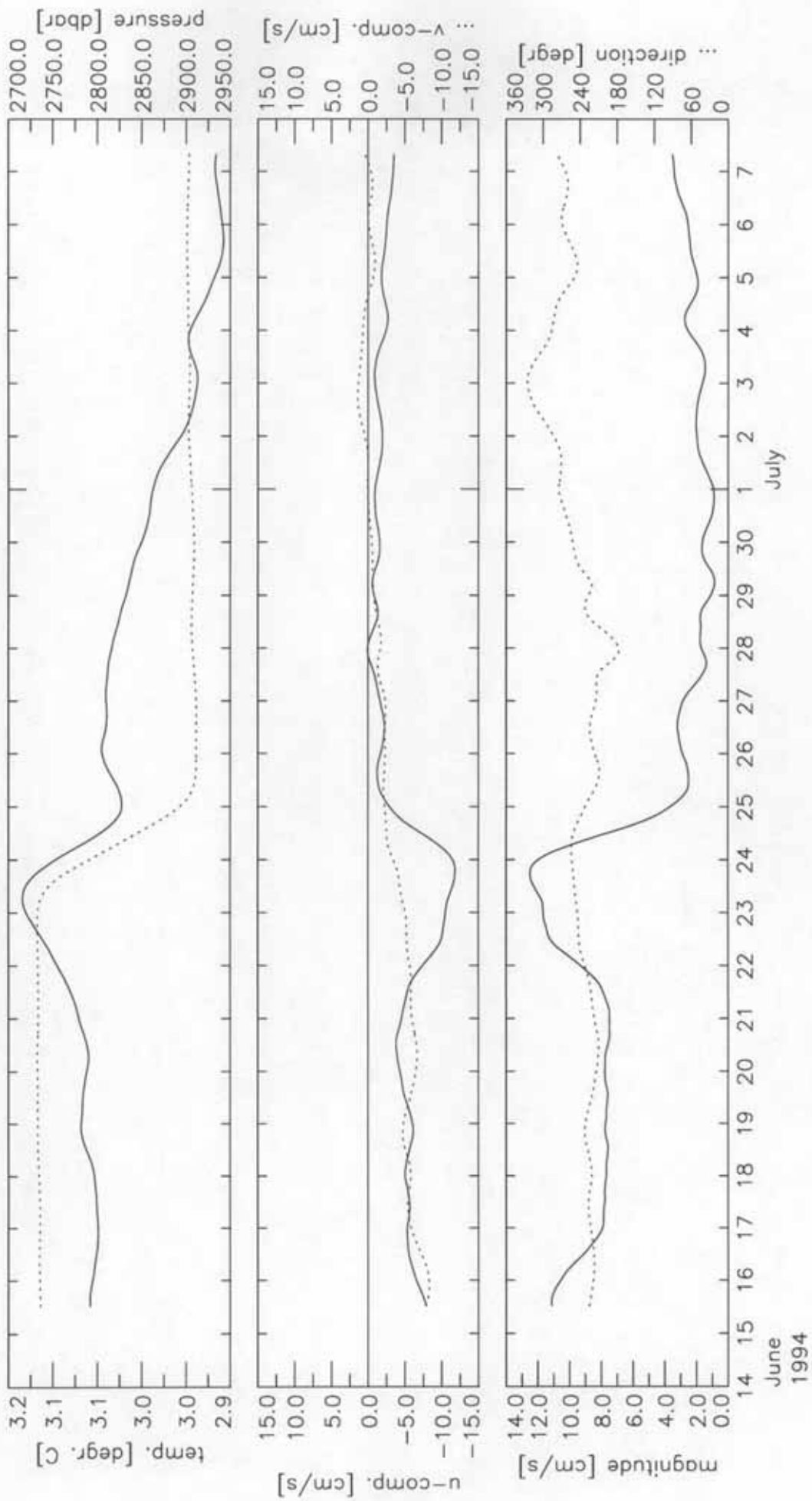
v-component (meridional)



14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)

Time marks (x) are given every 48 hours

G4, record no. = a94031, sampling depth = 2485 m

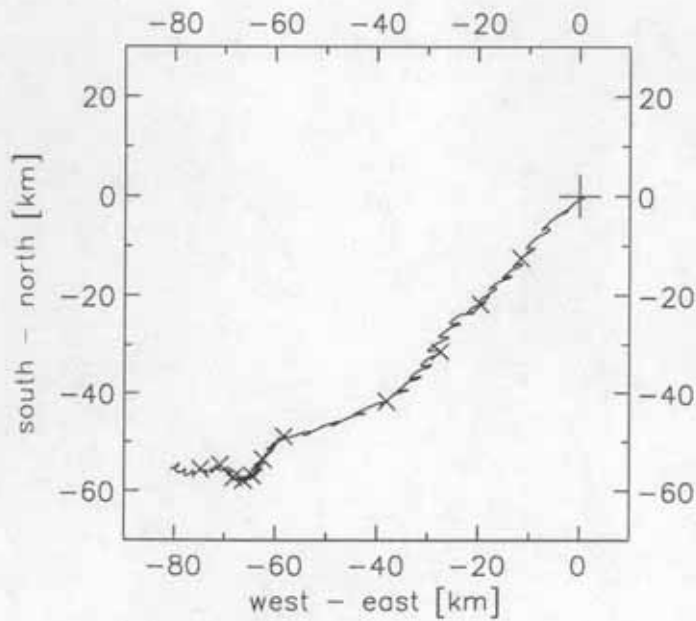
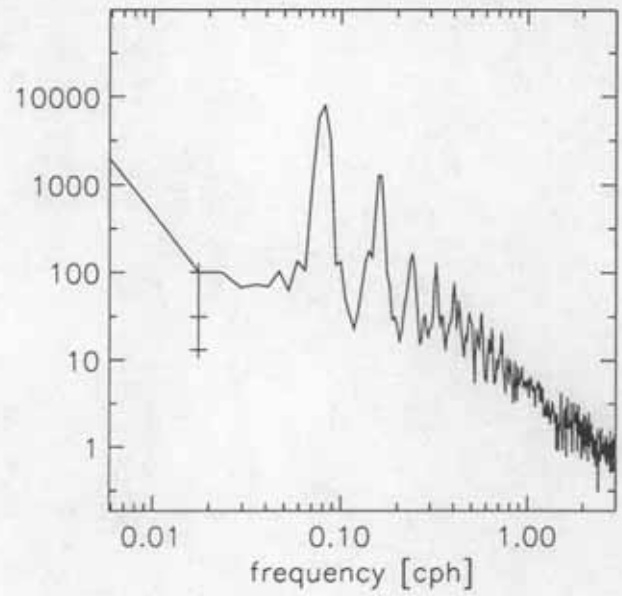
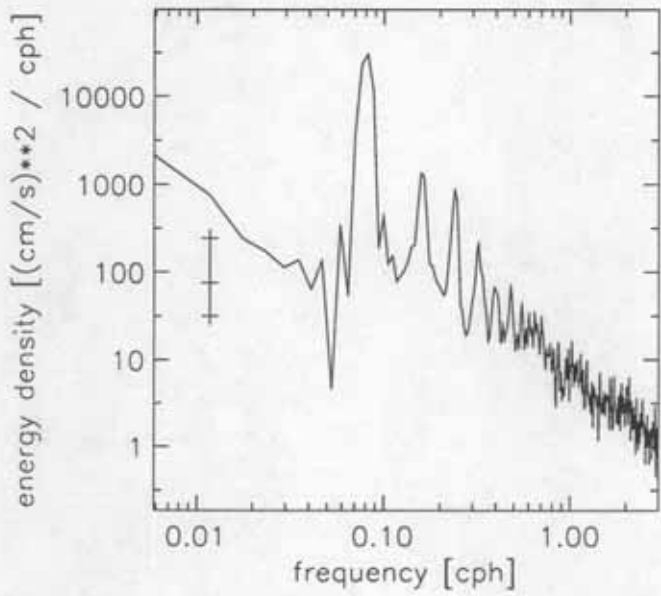


G4

record no: a94031, sampling interval = 10.0 minutes

u-component (zonal)

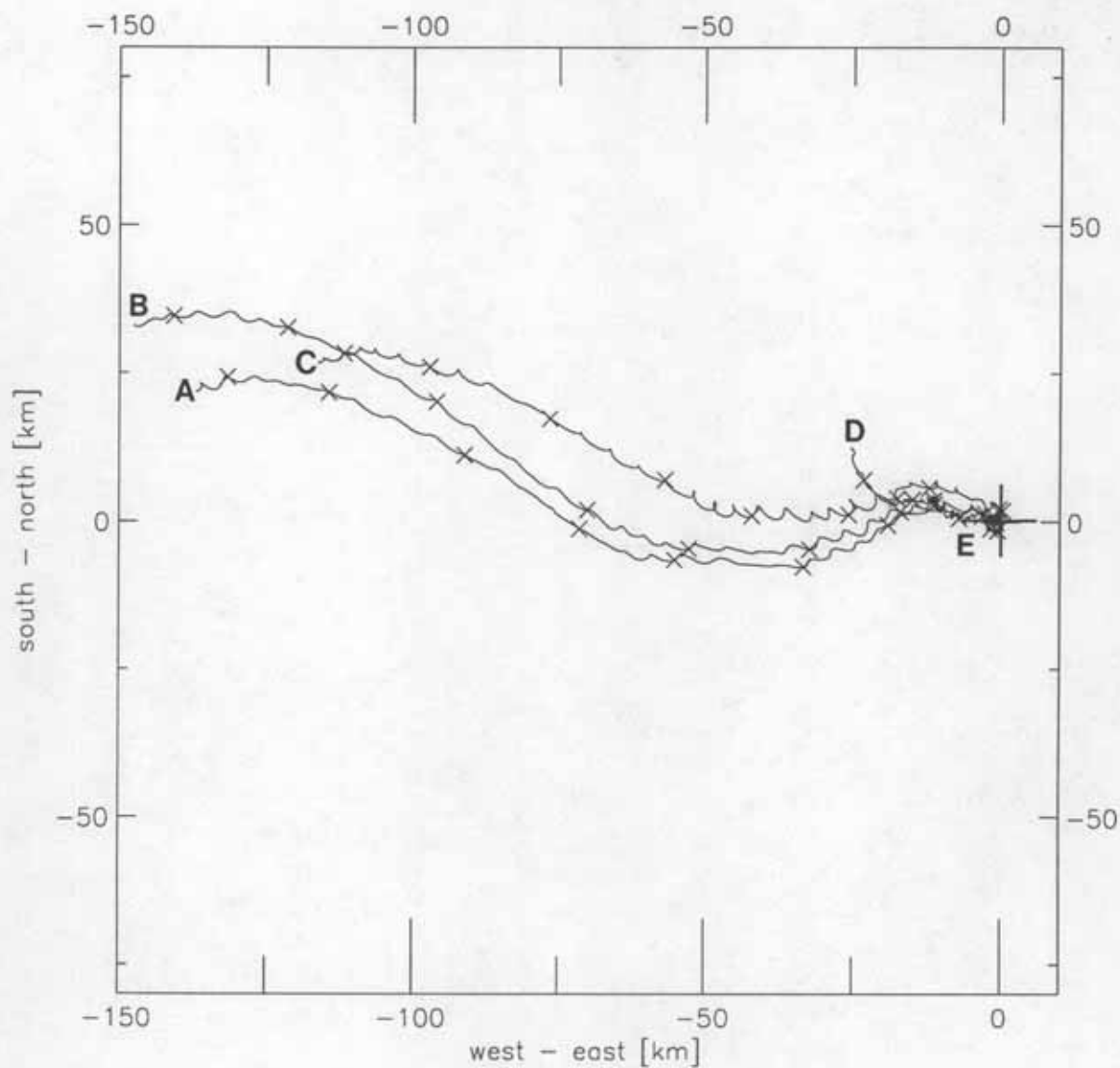
v-component (meridional)



14. 6.1994 12:20 - 8. 7.1994 7:50 (UTC)

Time marks (x) are given every 48 hours

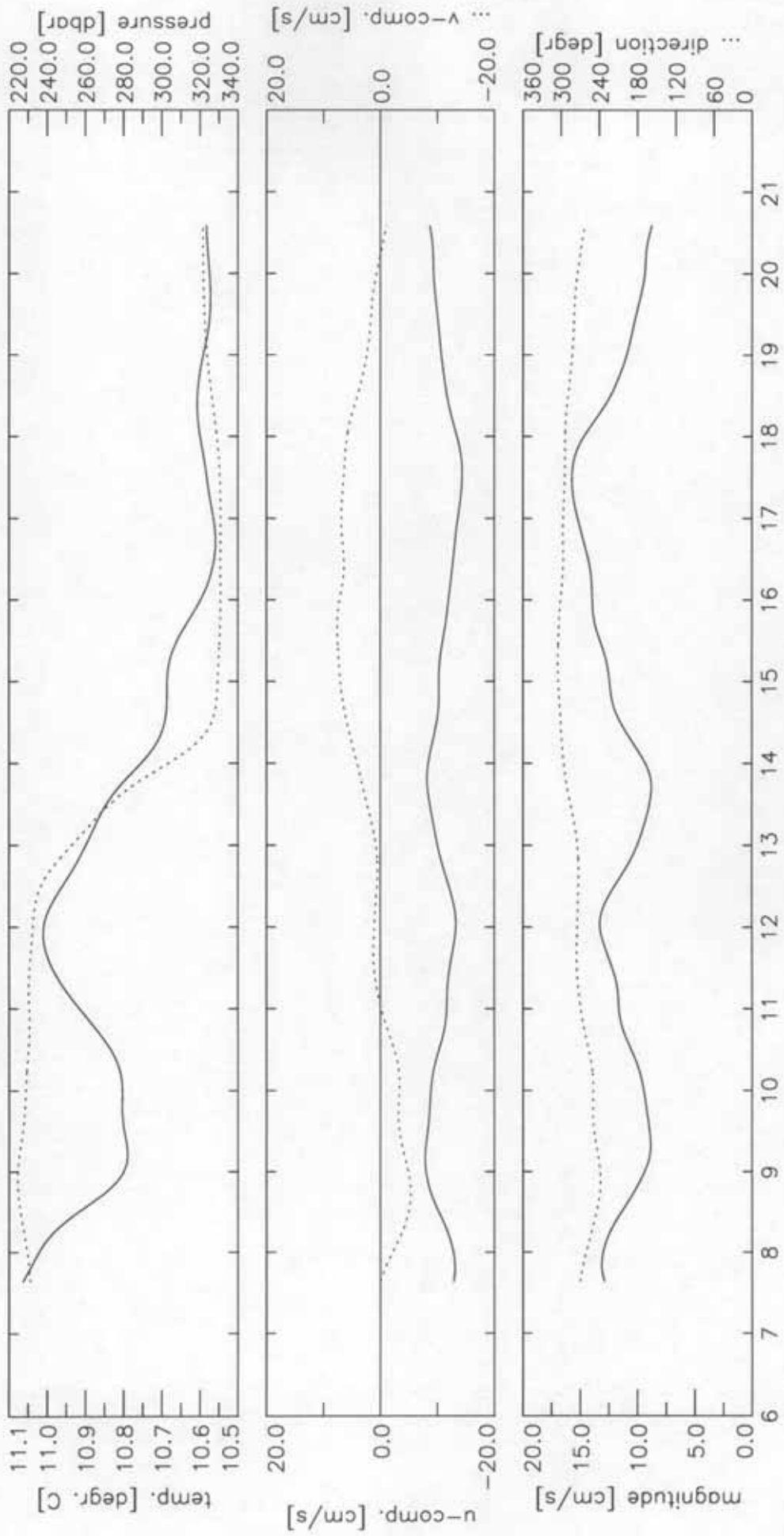
G5



Time marks (x) are given every 48 hours

- A** σ_{θ} 95036; $sd=$ 140 m; 6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)
- B** σ_{θ} 95037; $sd=$ 340 m; 6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)
- C** σ_{θ} 95038; $sd=$ 540 m; 6. 8.1995 15:15 - 21. 8.1995 14:15 (UTC)
- D** σ_{θ} 95039; $sd=$ 1140 m; 6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)
- E** σ_{θ} 95040; $sd=$ 2140 m; 6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)

G5, record no. = a95036, sampling depth = 140 m

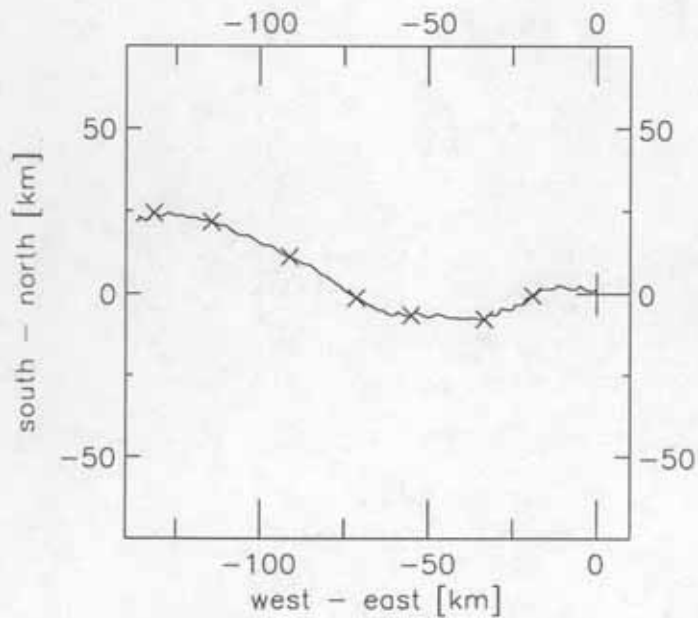
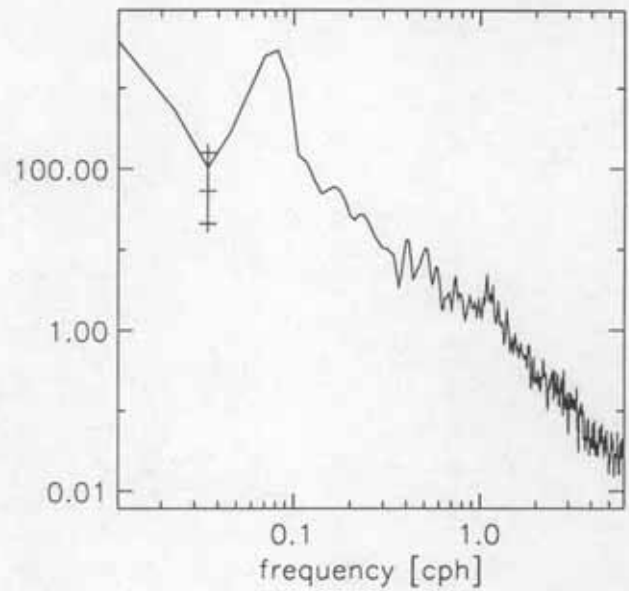
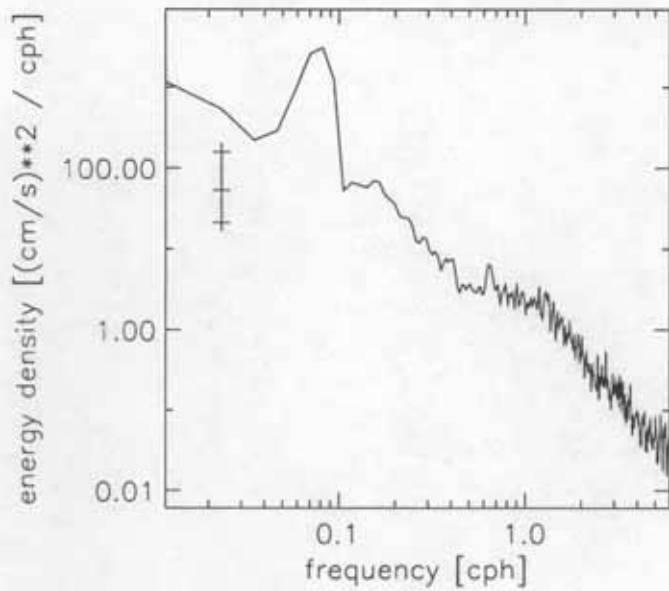


G5

record no: a95036, sampling interval = 5.0 minutes

u-component (zonal)

v-component (meridional)



6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)

Time marks (x) are given every 48 hours

G5, record no. = a95037, sampling depth = 340 m

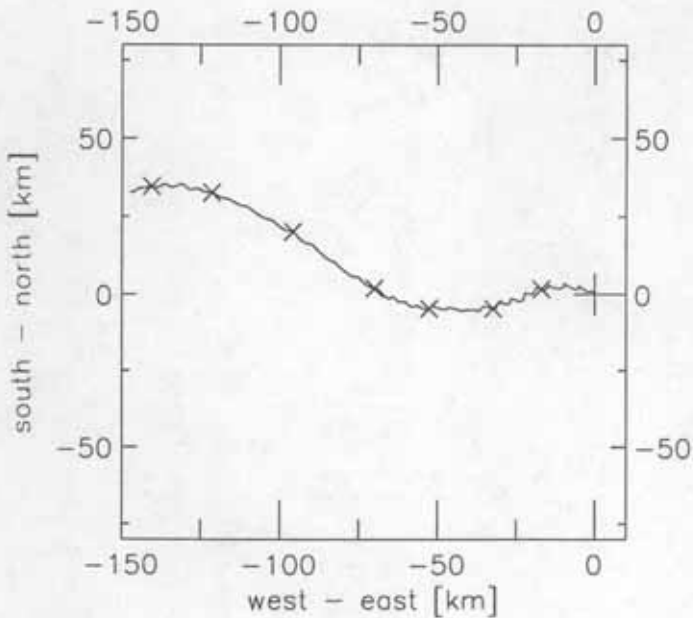
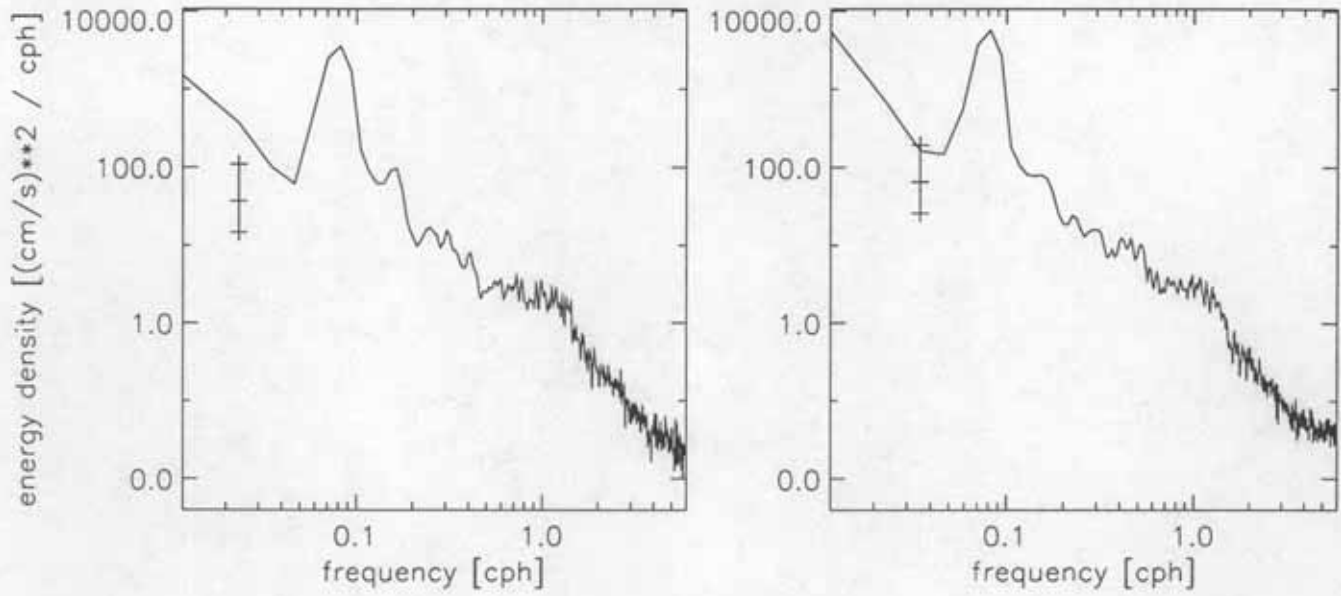


G5

record no: a95037, sampling interval = 5.0 minutes

u-component (zonal)

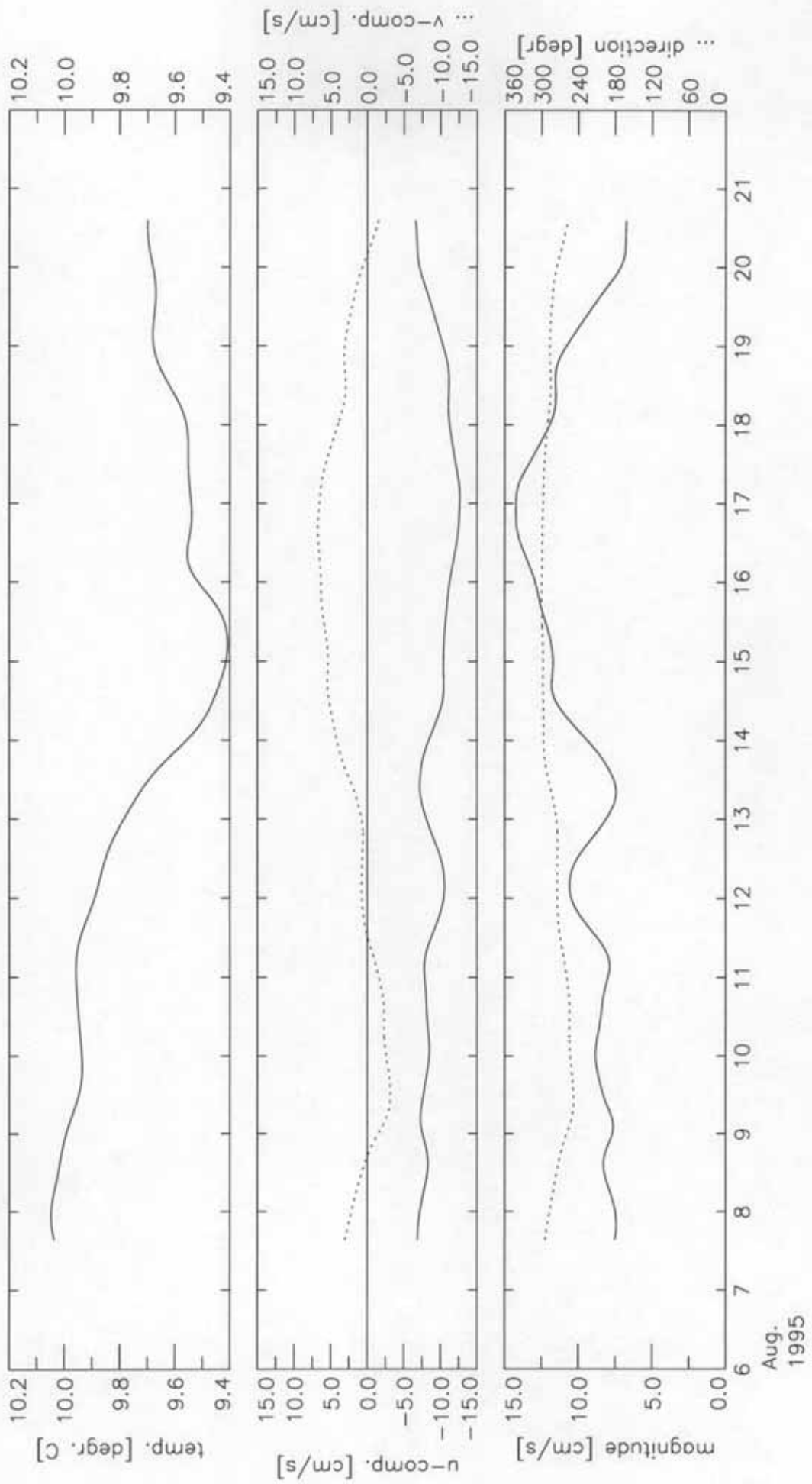
v-component (meridional)



6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)

Time marks (x) are given every 48 hours

G5, record no. = 095038, sampling depth = 540 m

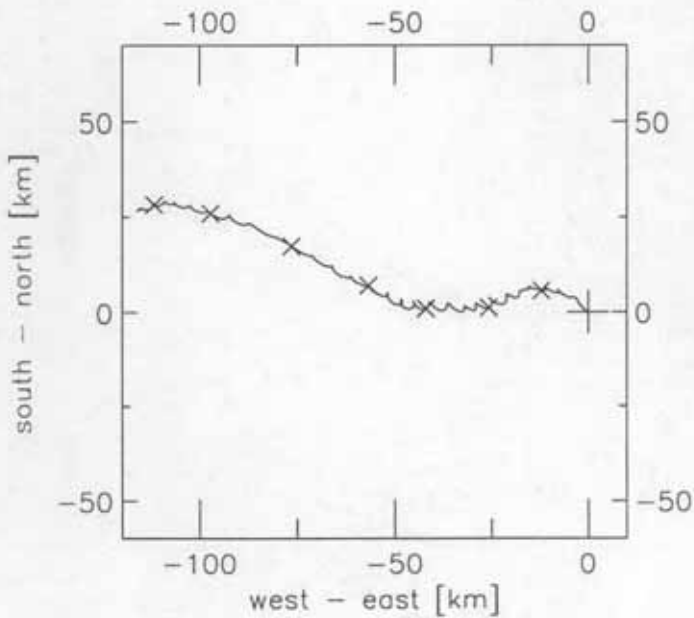
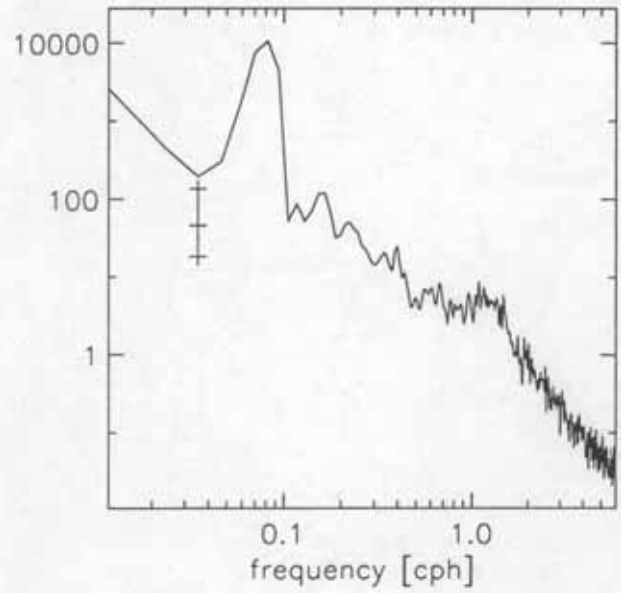
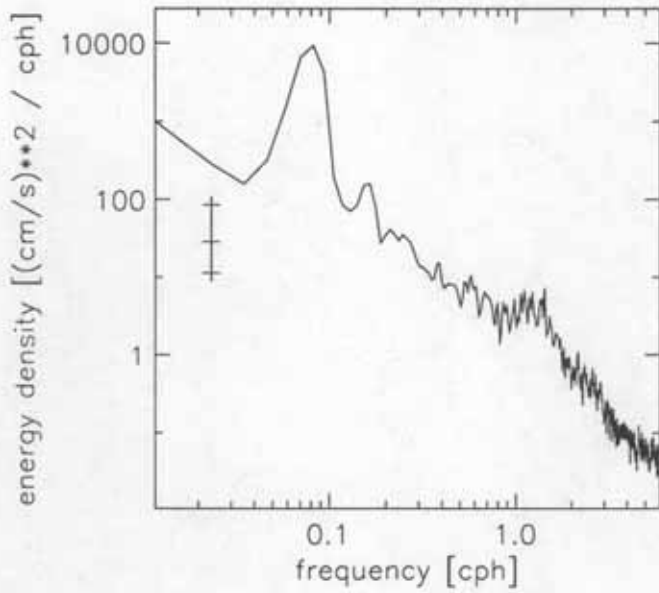


G5

record no: a95038, sampling interval = 5.0 minutes

u-component (zonal)

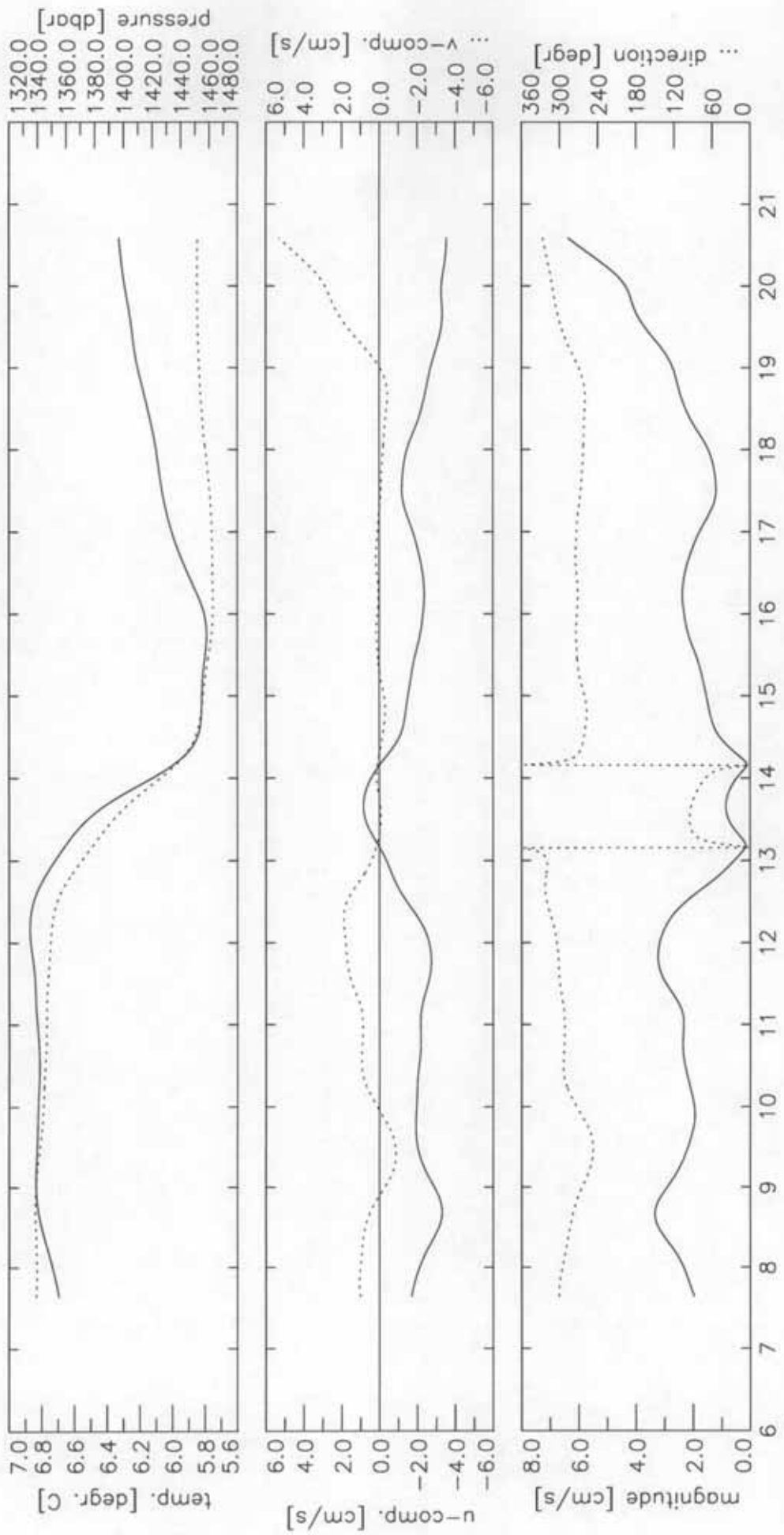
v-component (meridional)



6. 8.1995 15:15 - 21. 8.1995 14:15 (UTC)

Time marks (x) are given every 48 hours

G5, record no. = a95039, sampling depth = 1140 m

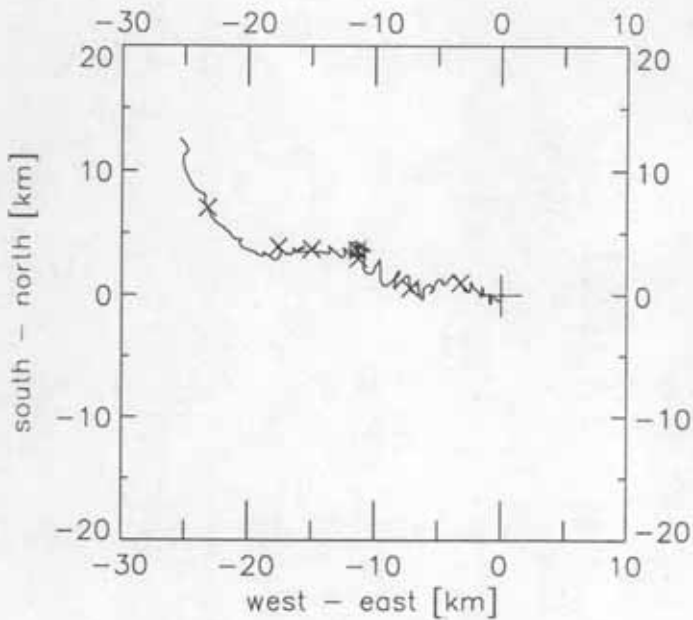
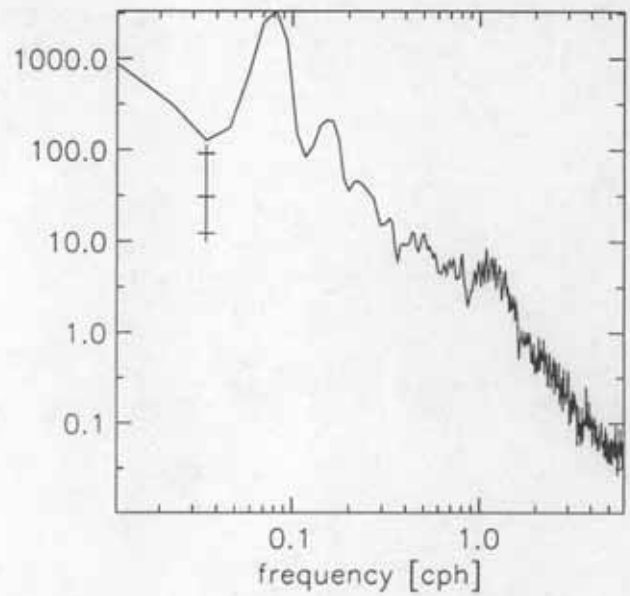
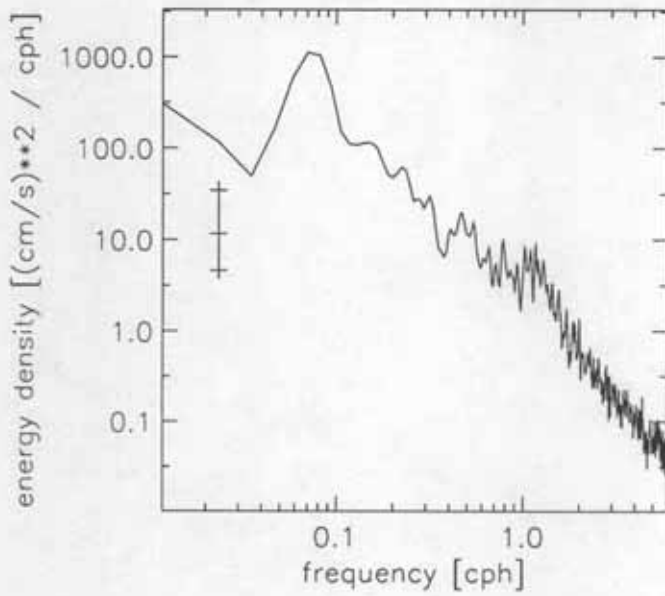


G5

record no: a95039, sampling interval = 5.0 minutes

u-component (zonal)

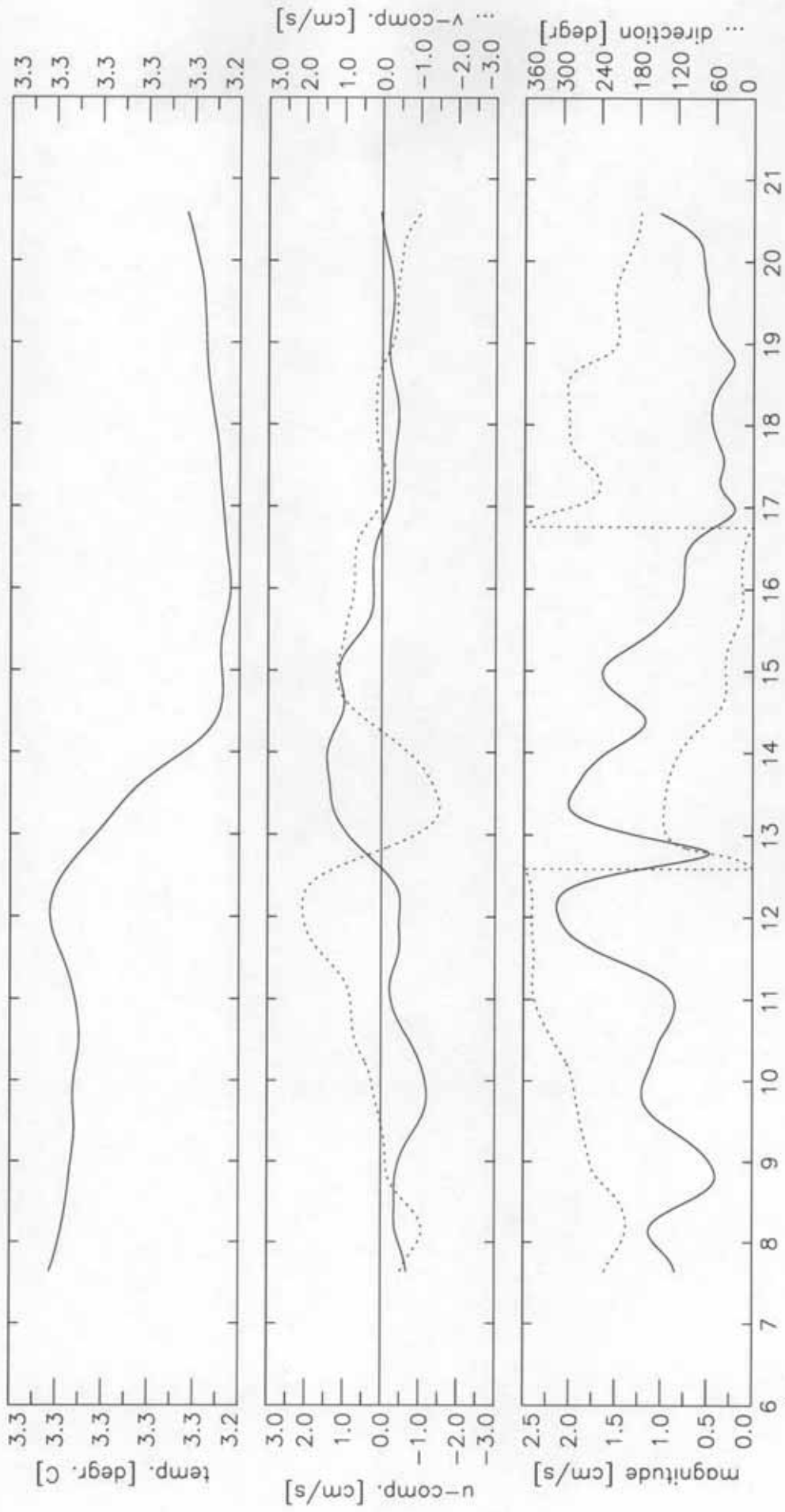
v-component (meridional)



6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)

Time marks (x) are given every 48 hours

G5, record no. = a95040, sampling depth = 2140 m



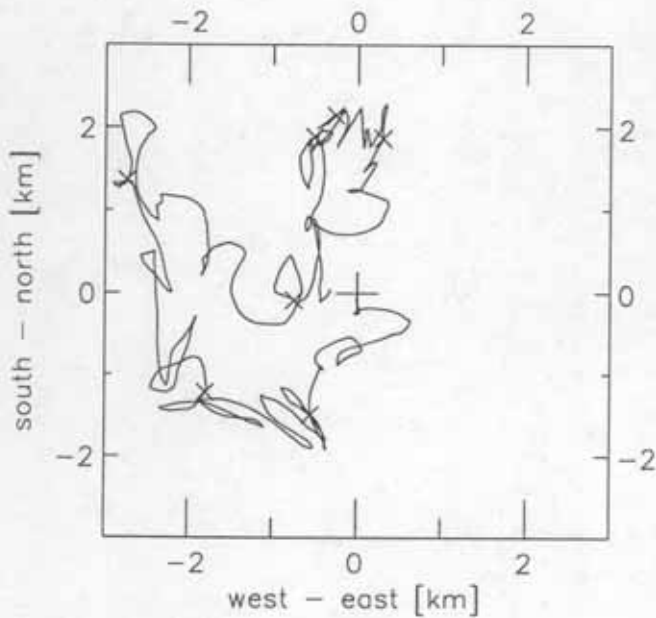
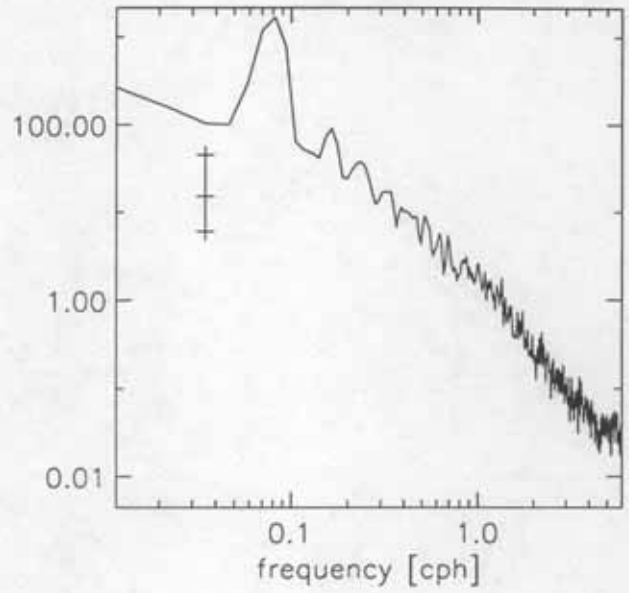
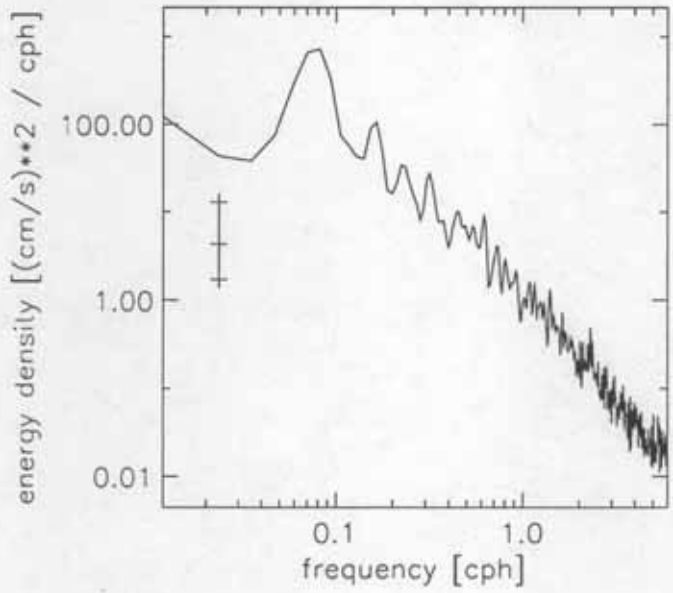
Aug.
1995

G5

record no: a95040, sampling interval = 5.0 minutes

u-component (zonal)

v-component (meridional)



6. 8.1995 15:15 - 21. 8.1995 14:10 (UTC)

Time marks (x) are given every 48 hours

L01

Mooring Data L01

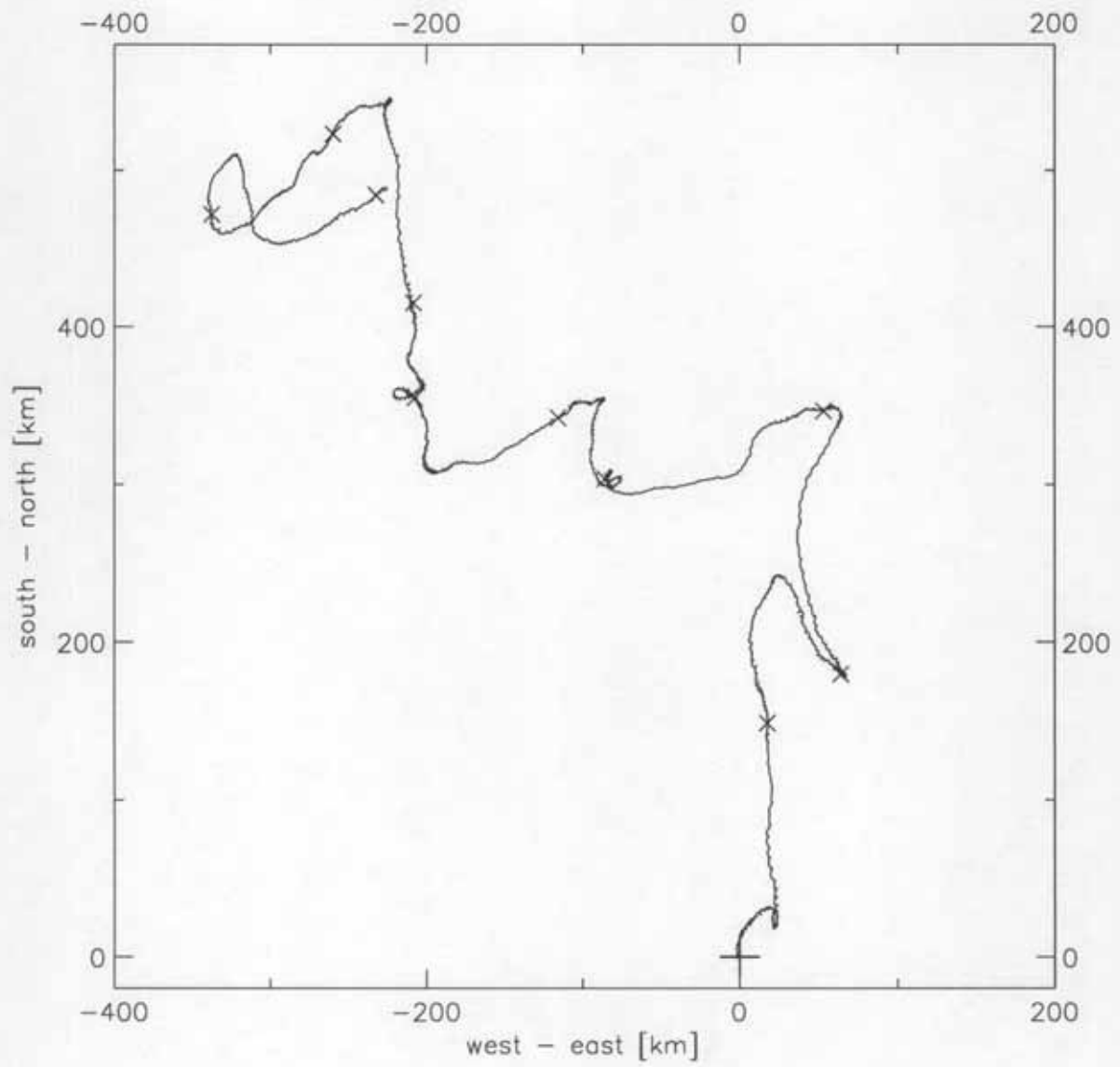
current meter	sampl. depth	mab	record no.	sampling time
-	m	m	-	UTC
L01:	14.3.91 - 19.1.92,	42° 55.54'N,	9° 50.88'W,	si = 60'
RCM5 6966	435	1510	92008	14.3.91 14:00 - 10.1.92 08:00

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

Id	sampl. depth	rec. length	\bar{u} \bar{v}	cm/s	mag v	cm/s	$\frac{\overline{u'u'}}{\overline{v'v'}}$	cm ² /s ²	$\overline{u'v'}$	cm ² /s ²	k_E k_M	cm ² /s ²	T_x T_y	days	L_x L_y	km	K_x K_y	cm ² /s ² × 10 ⁶	dir	°
I01:	435	300	-0.9±0.08 1.9±0.13		9.7 2.0	9.7 2.0	13.7 30.4	cm ² /s ²	4.4	cm ² /s ²	22.1 2.1	cm ² /s ²	7.1 5.5	days	22.7 26.4	km	8.4 14.6	cm ² /s ² × 10 ⁶	335	

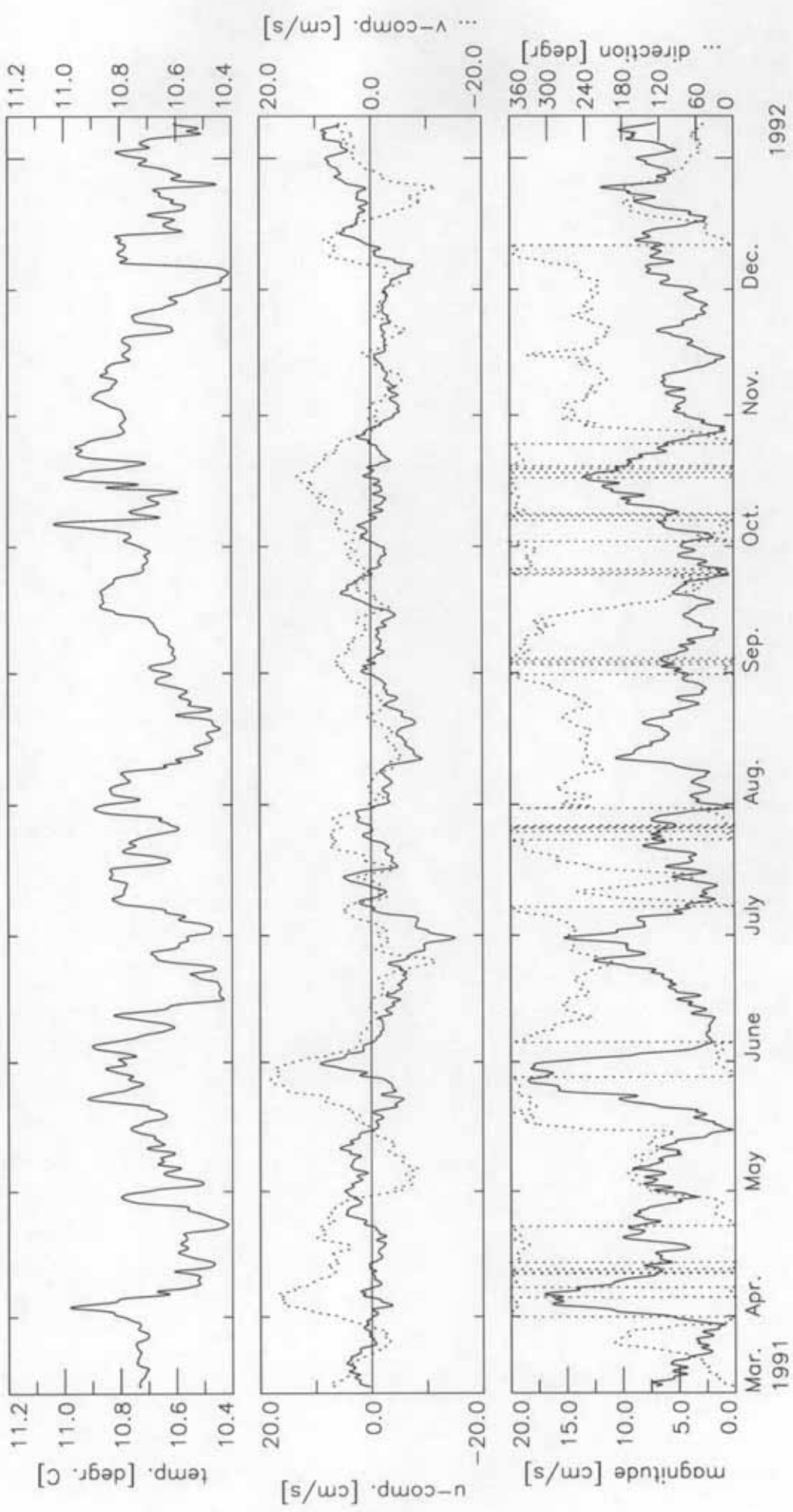
L01



Time marks (x) are given every 720 hours

o92008; sd= 435 m; 14. 3.1991 14:00 - 10. 1.1992 8:00 (UTC)

L01, record no. = a92008, sampling depth = 435 m

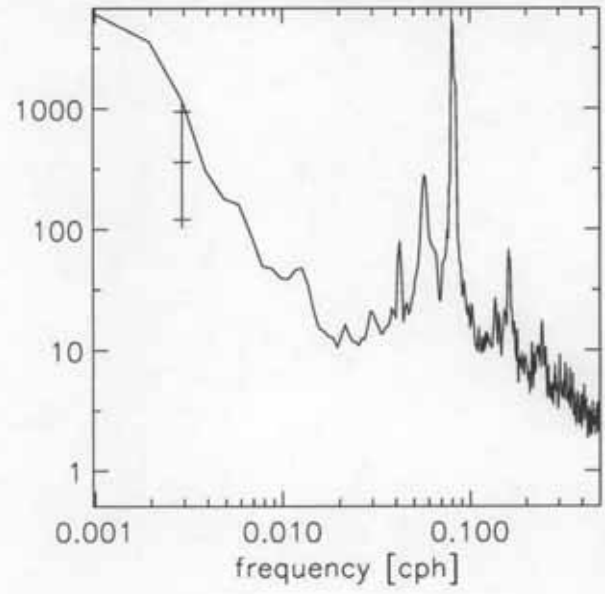
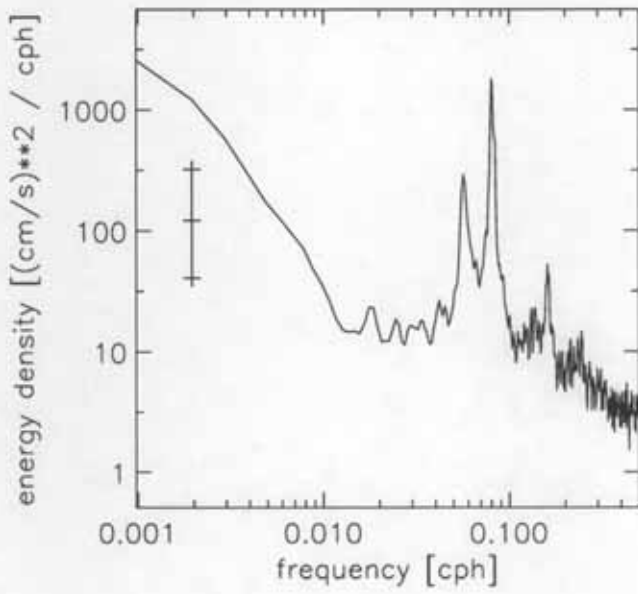


L01

record no: a92008, sampling interval = 60.0 minutes

u-component (zonal)

v-component (meridional)



AvH

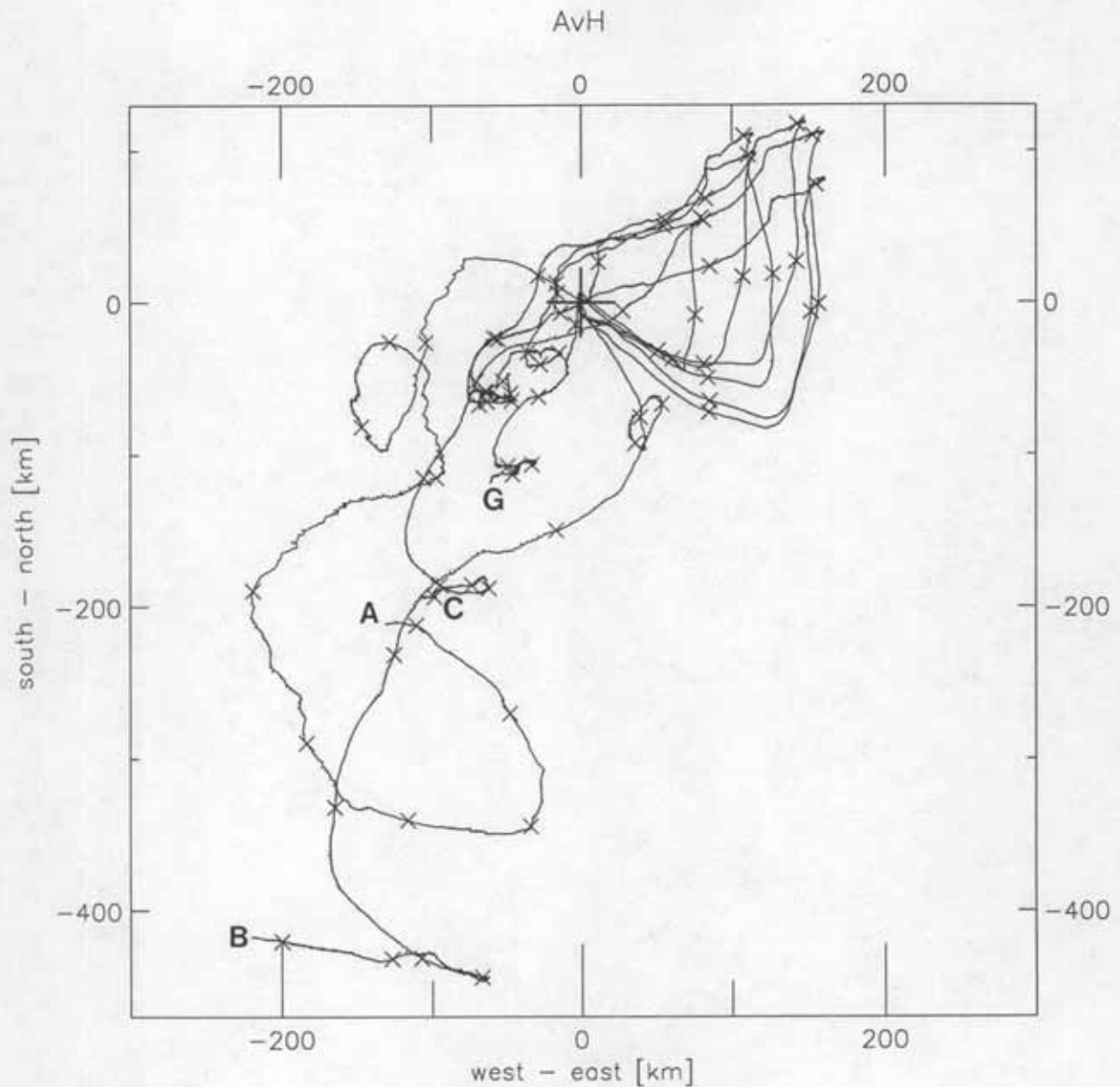
Mooring Data AvH

current meter	sampl. depth	mab	record no.	sampling time	
-	m	m	-	UTC	
AvH: 1.10.89 - 9.8.90, 42° 32.80'N, 14° 28.60'W, si = 60'					
RCM4 4248	410	4755	90143	2.10.89 04:00 -	8.8.90 08:00
RCM4 4364	1110	4055	90144	1.10.89 19:00 -	5.8.90 16:00
RCM5 6830	1810	3355	90145	1.10.89 19:00 -	9.8.90 08:00
RCM5 6863	3060	2105	90146	1.10.89 19:00 -	9.8.90 08:00
RCM5 6823	4640	524	90147	1.10.89 20:00 -	11.7.90 23:00
RCM5 6825	5045	120	90148	1.10.89 20:00 -	27.7.90 13:00
RCM5 6697	5144	21	90150	1.10.89 20:00 -	12.7.90 21:00
RCM5 6839	5154	11	90151	1.10.89 22:00 -	7.3.90 03:00

mab = metres above bottom, si = sampling interval

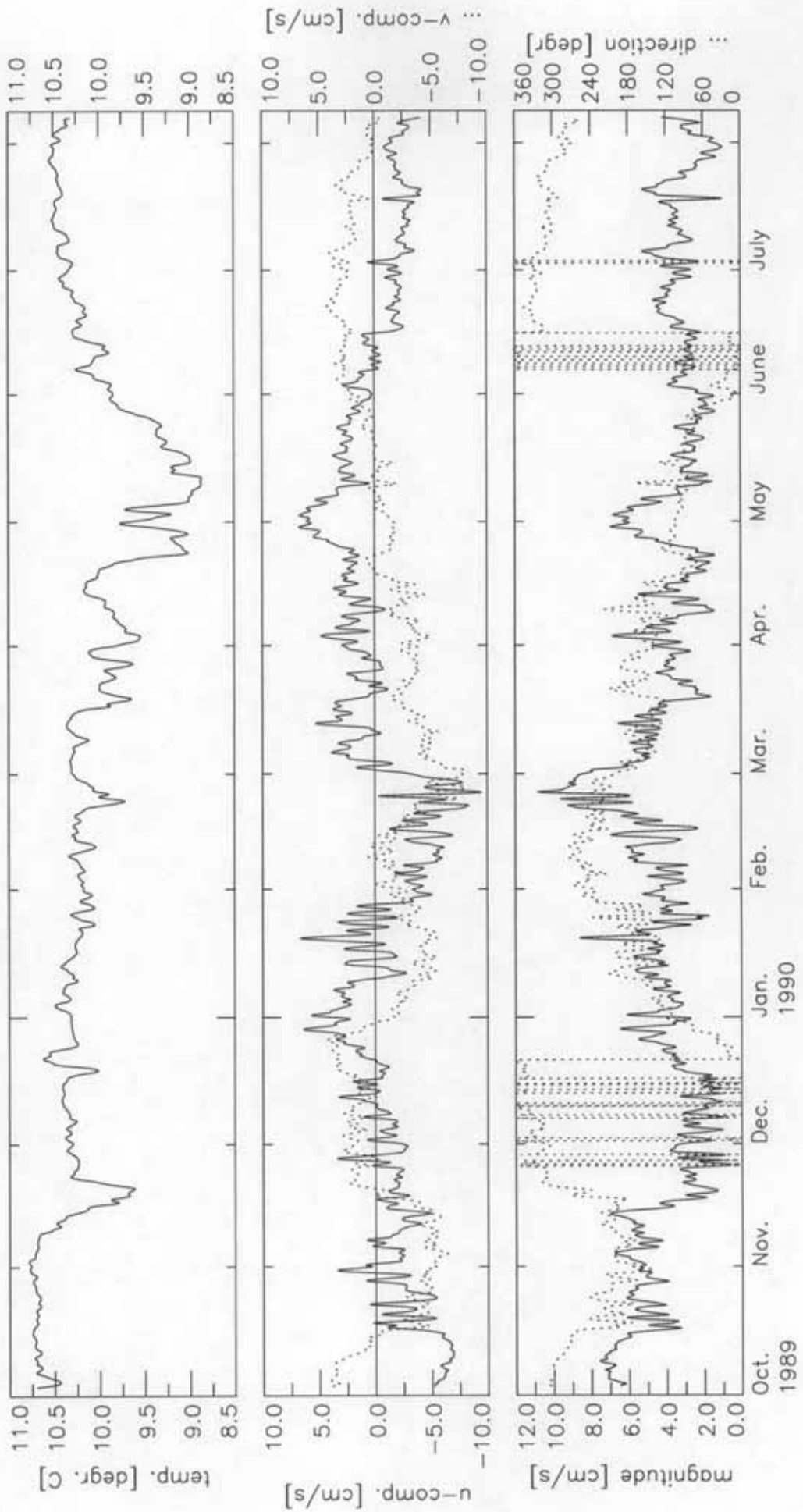
Current statistics (low-passed data)

Id	sampl. depth	rec. length	\bar{u} \bar{v}	mag v	$\frac{\overline{u'u'}}{v'v'}$	$\overline{u'v'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /sx10 ⁶	°
AVH:	410	-0.5±0.07	5.4	9.3	-0.8	9.1	13.0	34.5	10.5	210	
	1110	-0.8±0.07	0.9	8.8	-0.2	0.4	16.1	41.2	12.2	207	
	1810	-0.8±0.06	4.5	6.0	0.7	5.4	17.6	37.3	9.2	209	
	3060	-1.6±0.05	1.8	4.8	0.7	1.6	18.2	34.5	7.6	225	
	309	-0.4±0.04	3.6	3.3	0.7	3.5	21.5	33.8	6.1	230	
	309	-0.7±0.04	0.8	3.6	0.7	0.3	16.0	26.4	5.0	225	
	309	-0.2±0.04	3.2	3.1	0.7	3.6	24.4	37.3	6.6	207	
	4640	-0.2±0.04	0.3	4.0	0.5	<0.1	15.0	25.9	5.2	258	
	281	-0.3±0.06	4.3	6.3	1.0	7.0	22.3	48.5	12.2	225	
	297	-0.2±0.07	0.4	7.6	0.6	<0.1	15.0	35.8	9.9	207	
	5045	-0.2±0.05	3.4	4.5	0.6	4.6	20.5	37.7	8.0	258	
	282	-0.2±0.05	0.3	4.8	0.6	<0.1	16.0	30.2	6.6	207	
	5144	-0.2±0.06	4.3	6.0	-0.4	5.9	20.7	43.8	10.8	258	
	154	-0.5±0.06	0.5	5.9	0.4	0.1	14.3	29.9	7.2	207	
	5154	-0.1±0.09	4.4	7.5	0.4	8.4	22.5	53.3	14.6	258	
		-0.0±0.10	0.1	9.2	0.4	<0.1	15.5	40.6	12.3	258	



A	a90143; sd= 410 m;	2.10.1989	4:00 - 8.	8.1990	8:00 (UTC)
B	a90144; sd= 1110 m;	2.10.1989	4:00 - 5.	8.1990	16:00 (UTC)
C	a90145; sd= 1810 m;	2.10.1989	4:00 - 9.	8.1990	8:00 (UTC)
D	a90146; sd= 3060 m;	2.10.1989	4:00 - 9.	8.1990	8:00 (UTC)
E	a90147; sd= 4640 m;	2.10.1989	4:00 - 11.	7.1990	23:00 (UTC)
F	a90148; sd= 5045 m;	2.10.1989	4:00 - 27.	7.1990	13:00 (UTC)
G	a90150; sd= 5144 m;	2.10.1989	4:00 - 12.	7.1990	21:00 (UTC)
H	a90151; sd= 5154 m;	2.10.1989	4:00 - 7.	3.1990	3:00 (UTC)

AvH, record no. = a90143, sampling depth = 410 m

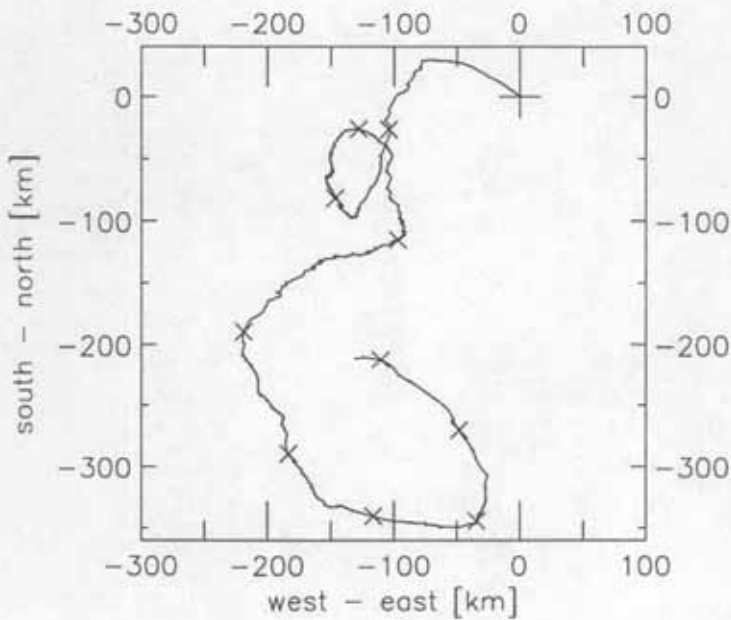
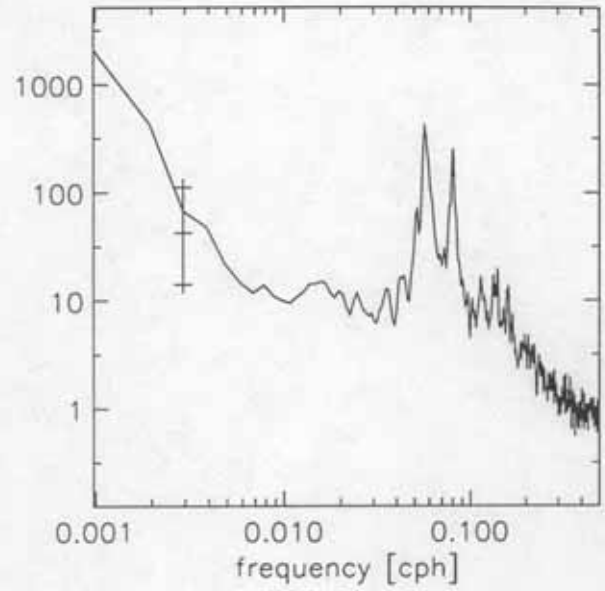
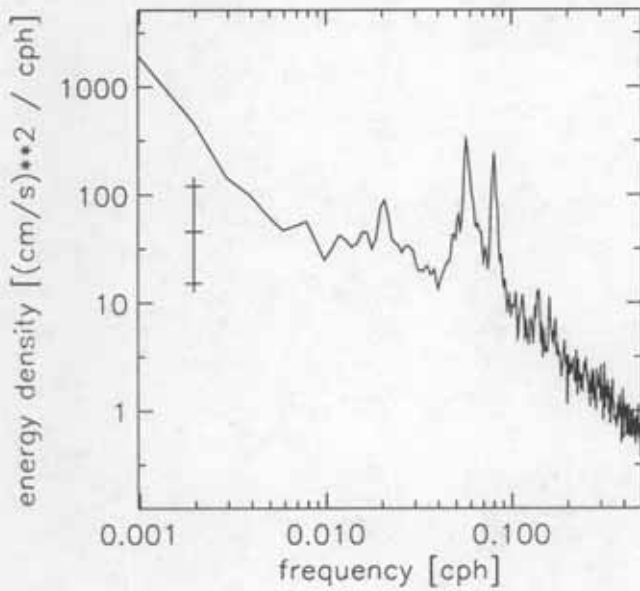


AvH

record no: a90143, sampling interval = 60.0 minutes

u-component (zonal)

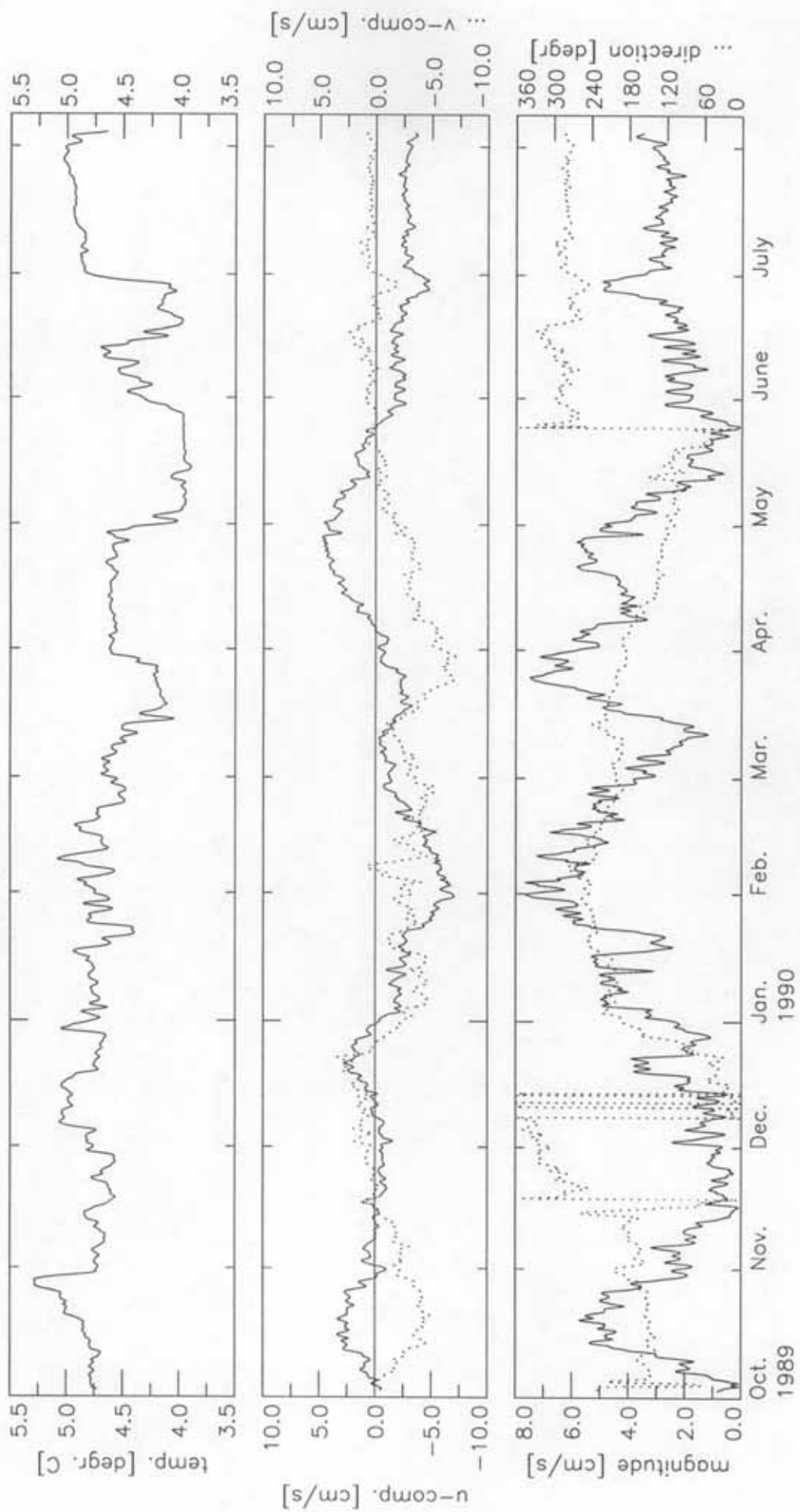
v-component (meridional)



2.10.1989 4:00 - 8. 8.1990 8:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90144, sampling depth = 1110 m

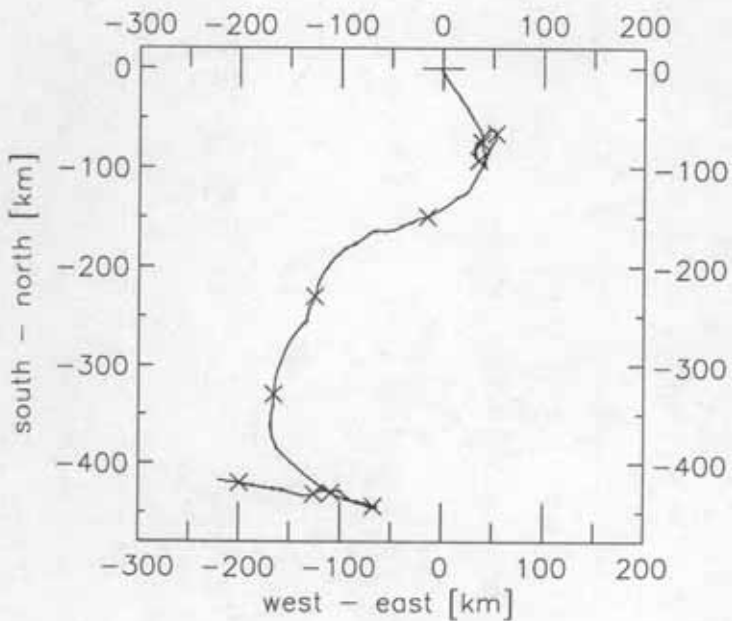
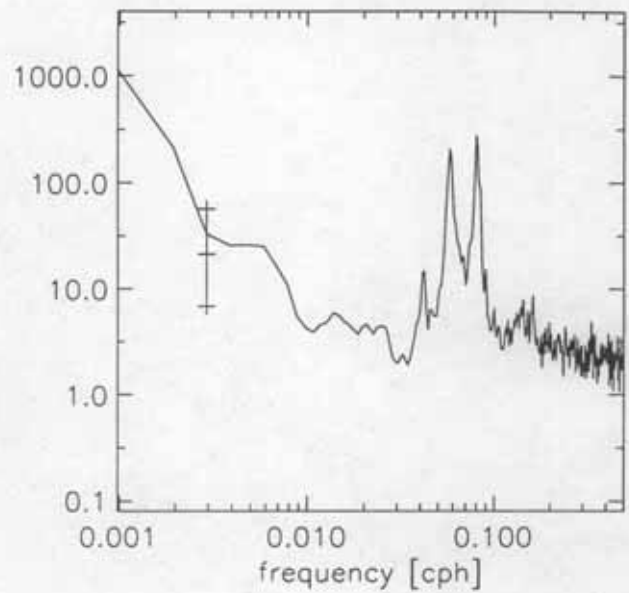
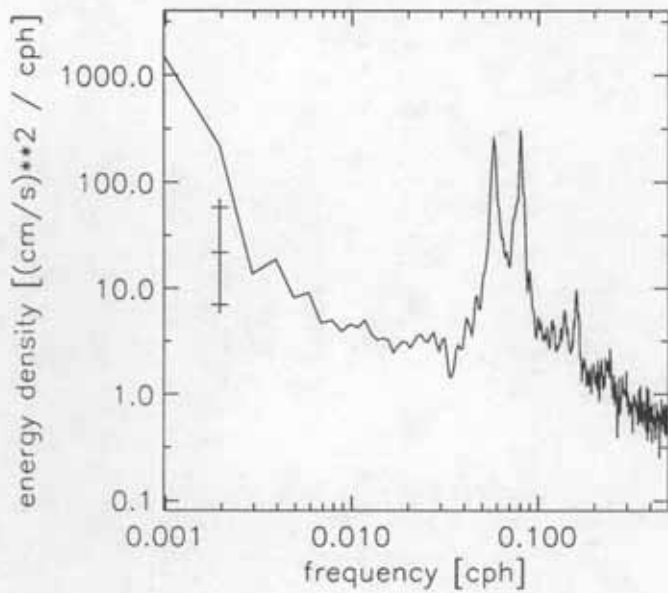


AvH

record no: a90144, sampling interval = 60.0 minutes

u-component (zonal)

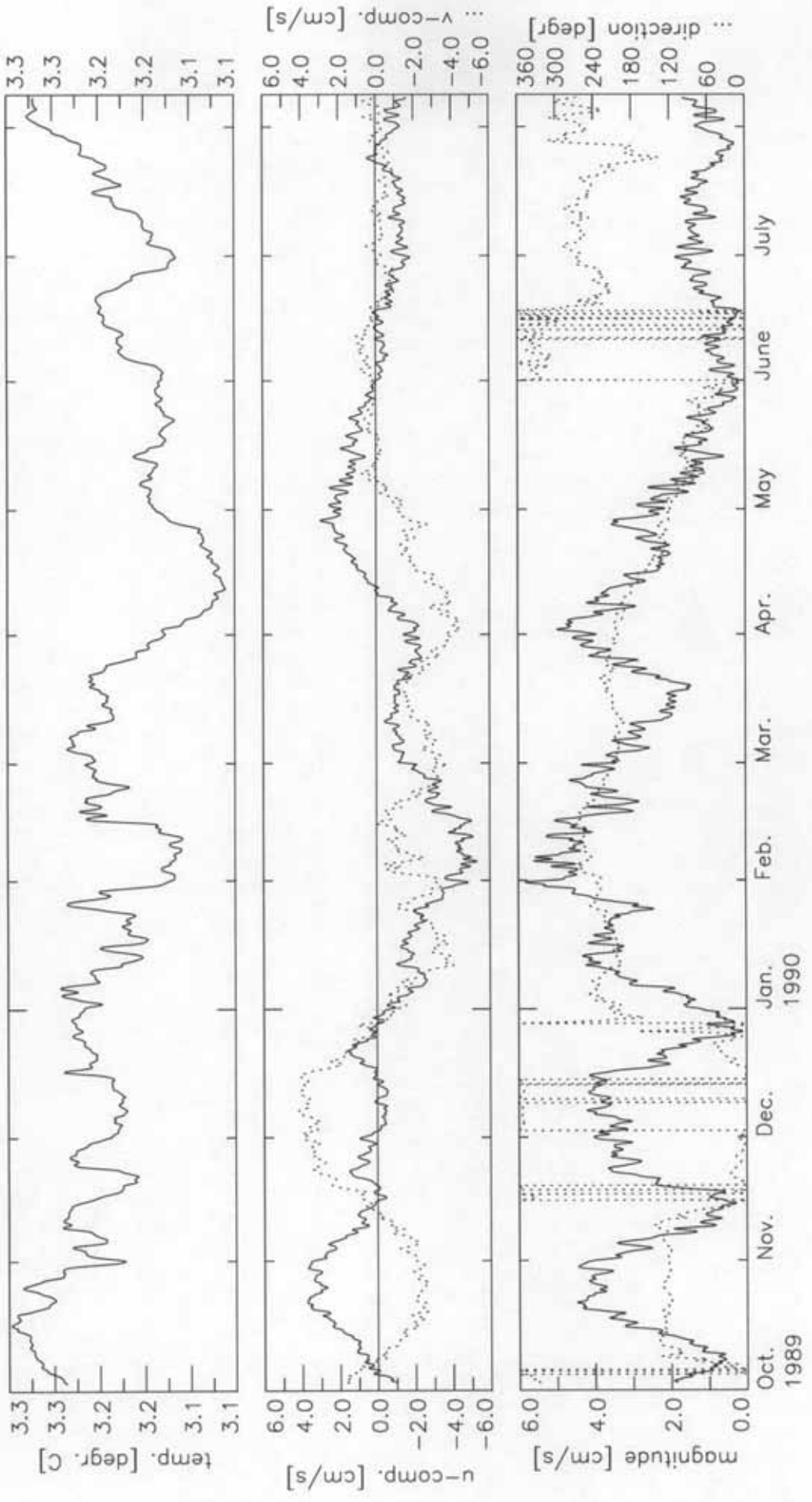
v-component (meridional)



1.10.1989 19:00 - 5. 8.1990 16:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90145, sampling depth = 1810 m

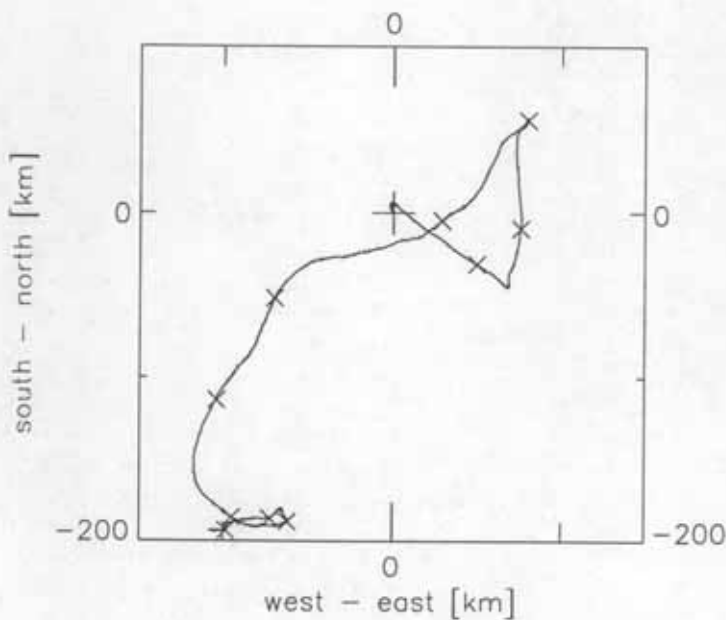
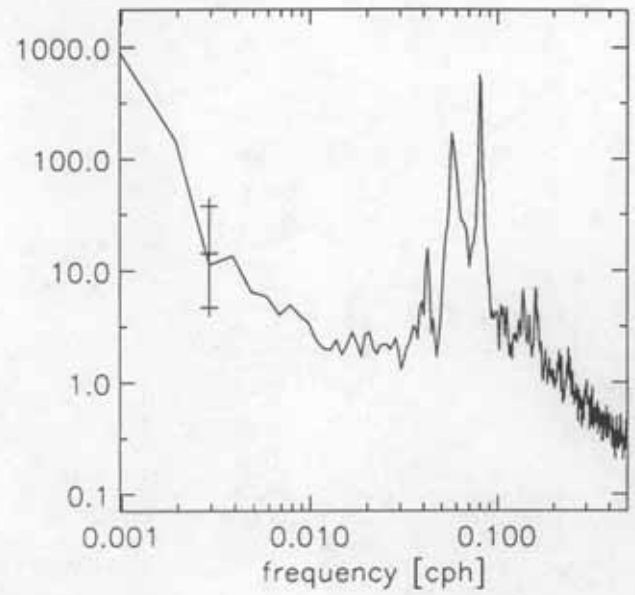
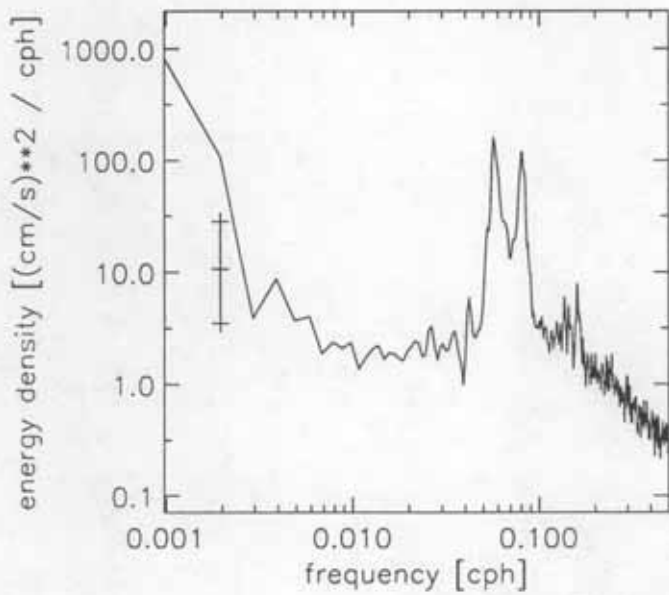


AvH

record no: a90145, sampling interval = 60.0 minutes

u-component (zonal)

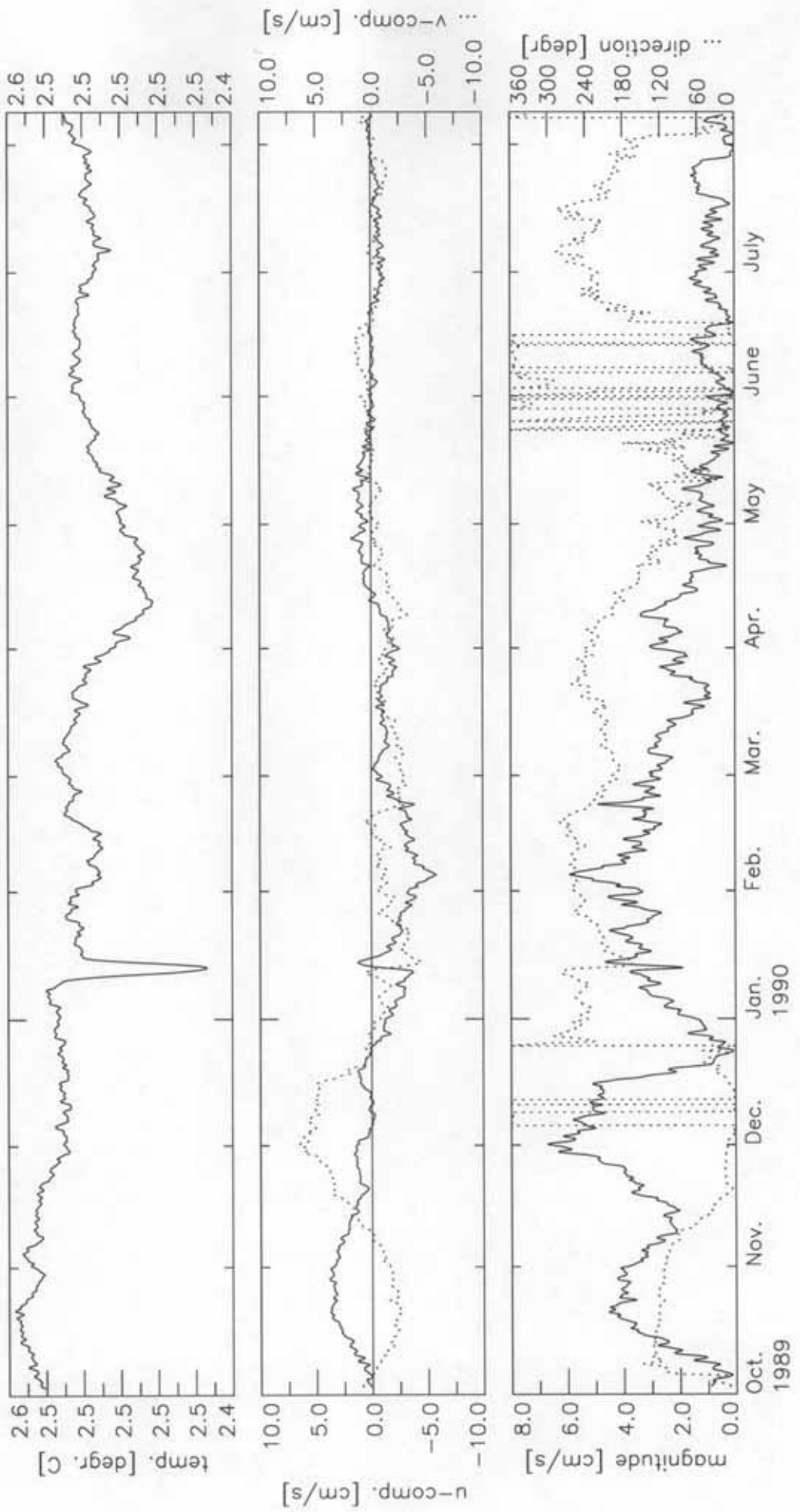
v-component (meridional)



1.10.1989 19:00 - 9. 8.1990 8:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90146, sampling depth = 3060 m

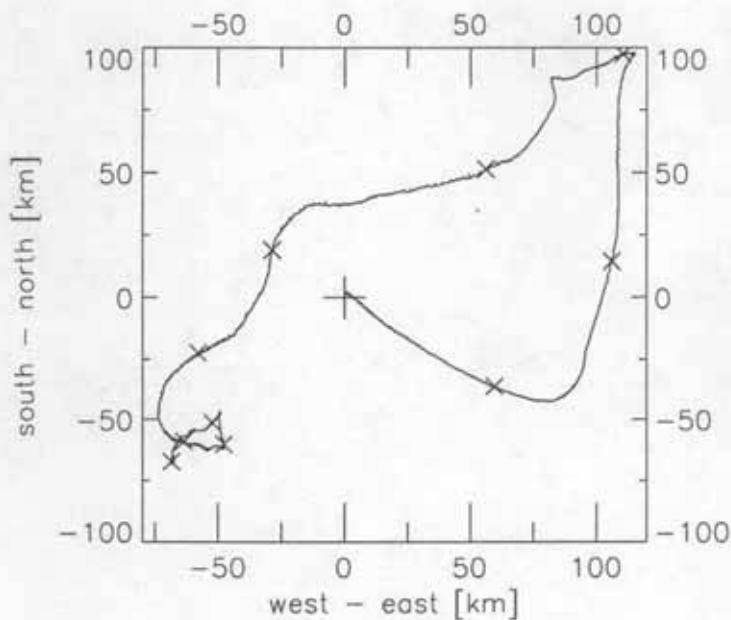
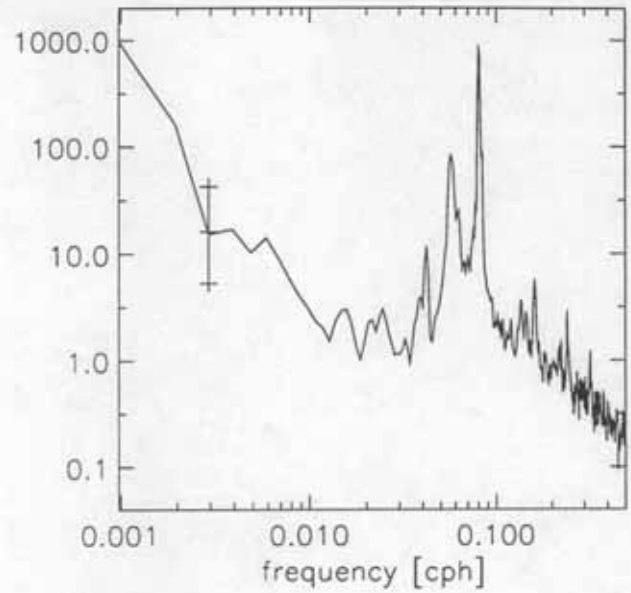
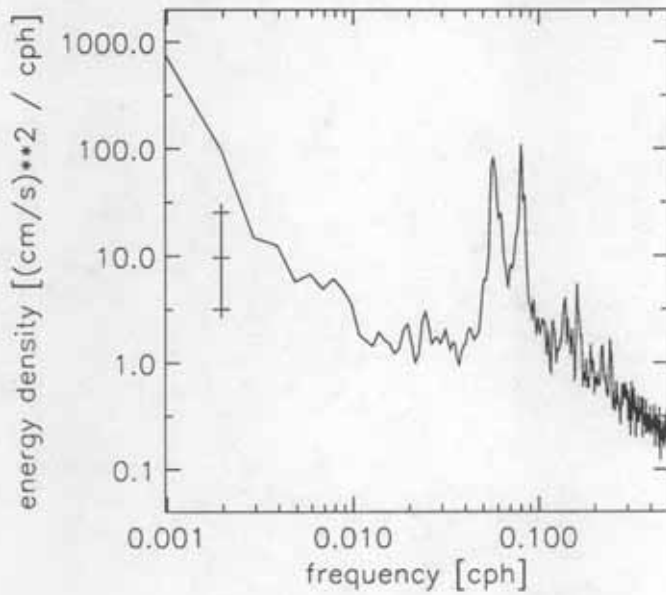


AvH

record no: a90146, sampling interval = 60.0 minutes

u-component (zonal)

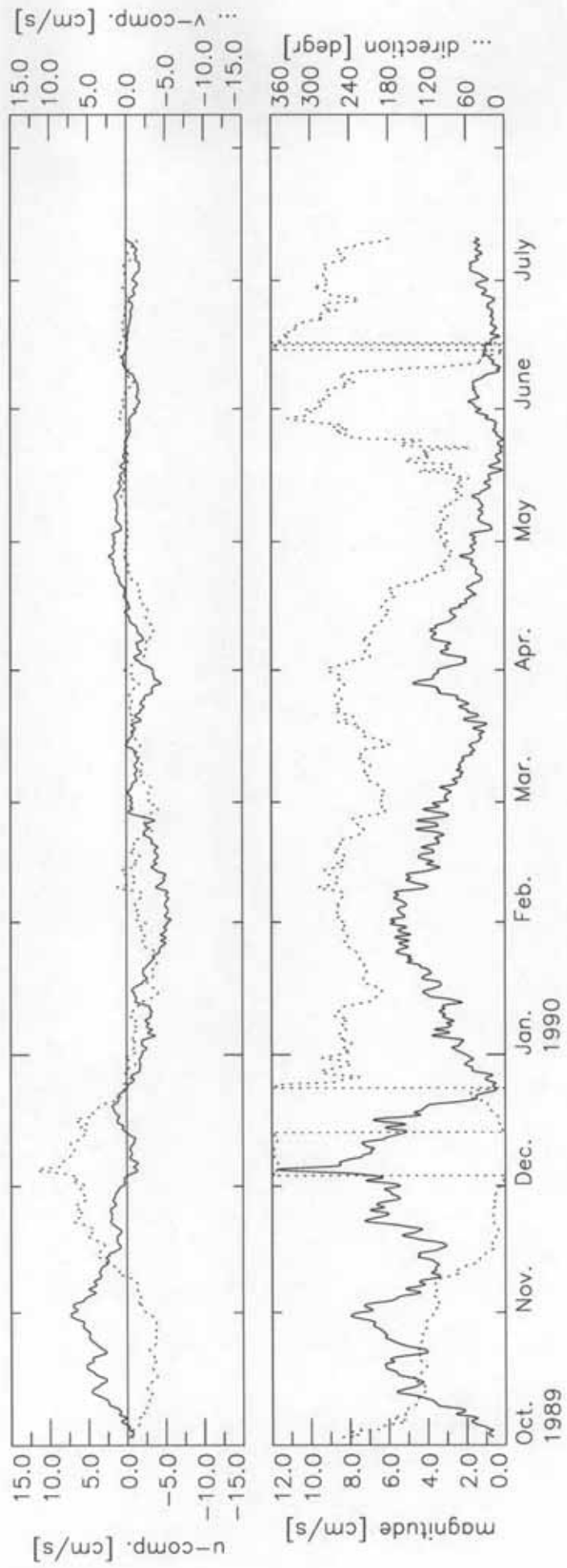
v-component (meridional)



1.10.1989 19:00 - 9. 8.1990 8:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90147, sampling depth = 4640 m

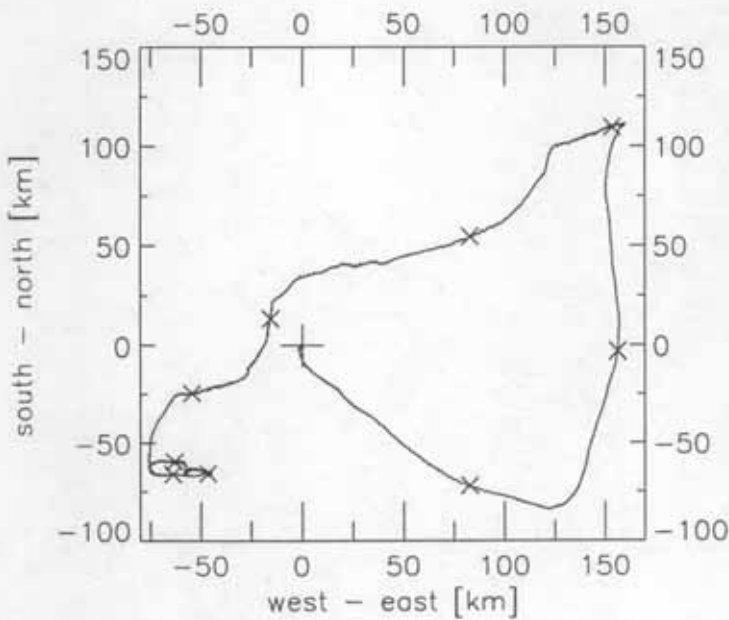
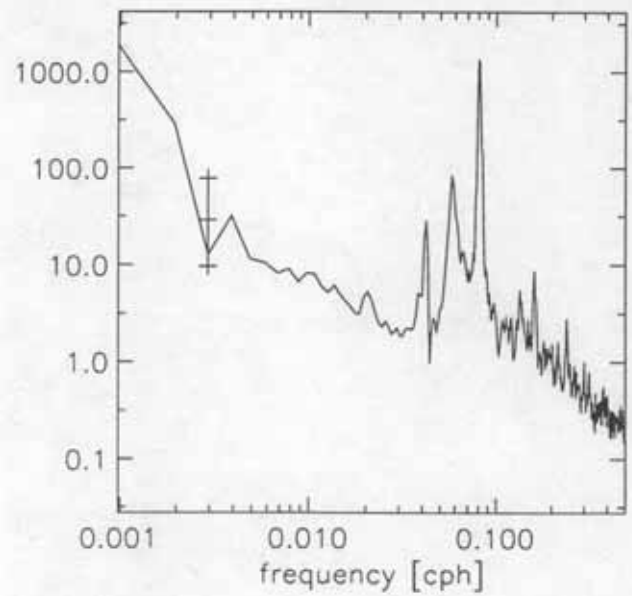
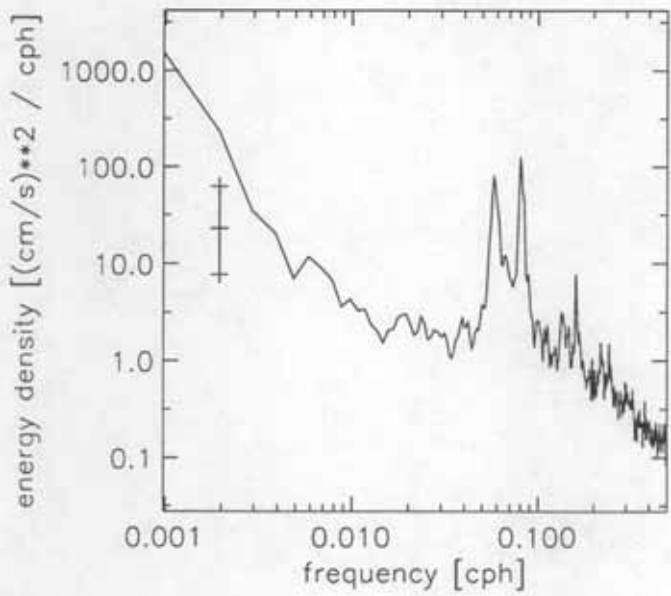


AvH

record no: a90147, sampling interval = 60.0 minutes

u-component (zonal)

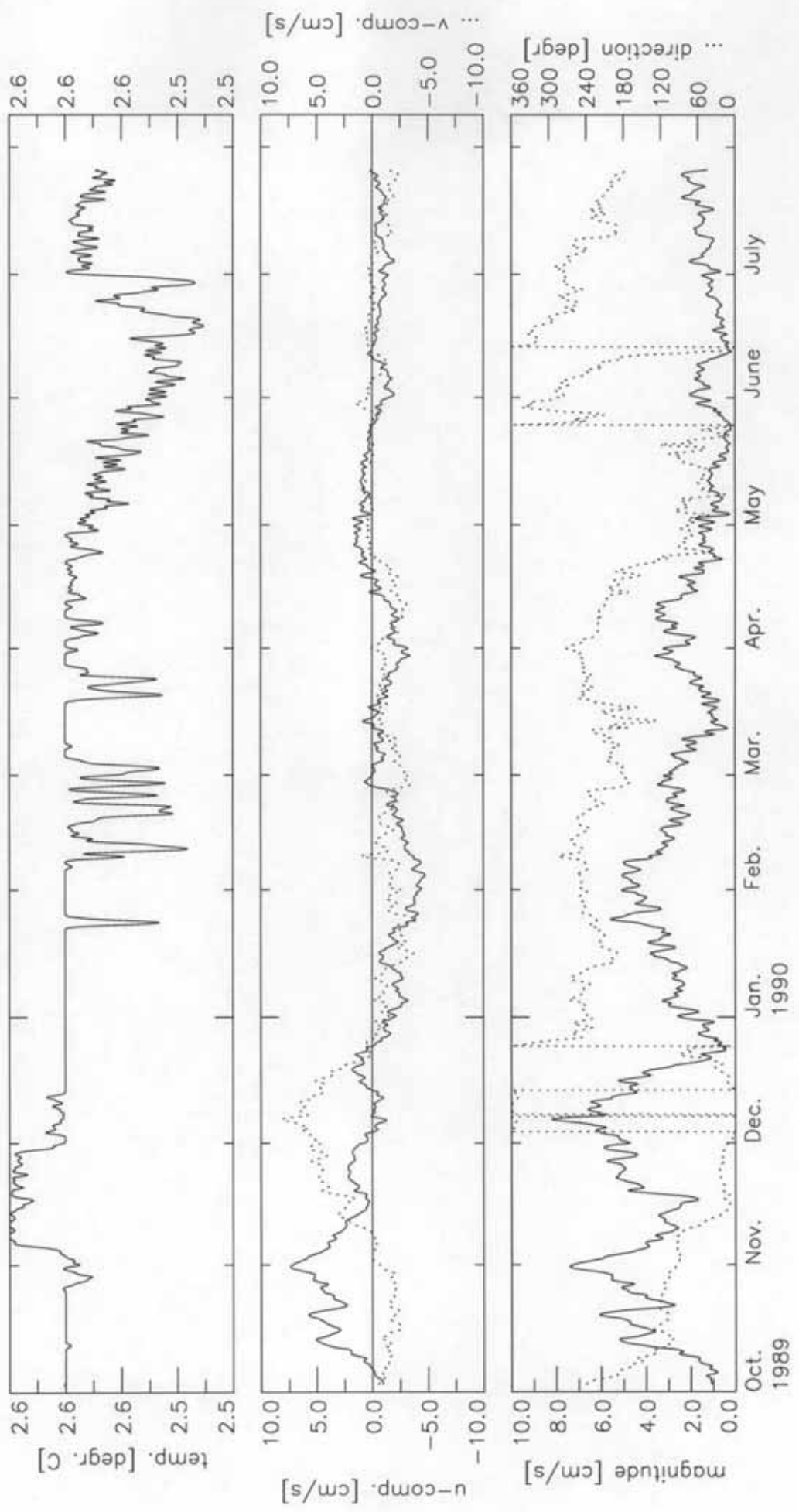
v-component (meridional)



1.10.1989 20:00 - 11. 7.1990 23:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90148, sampling depth = 5045 m

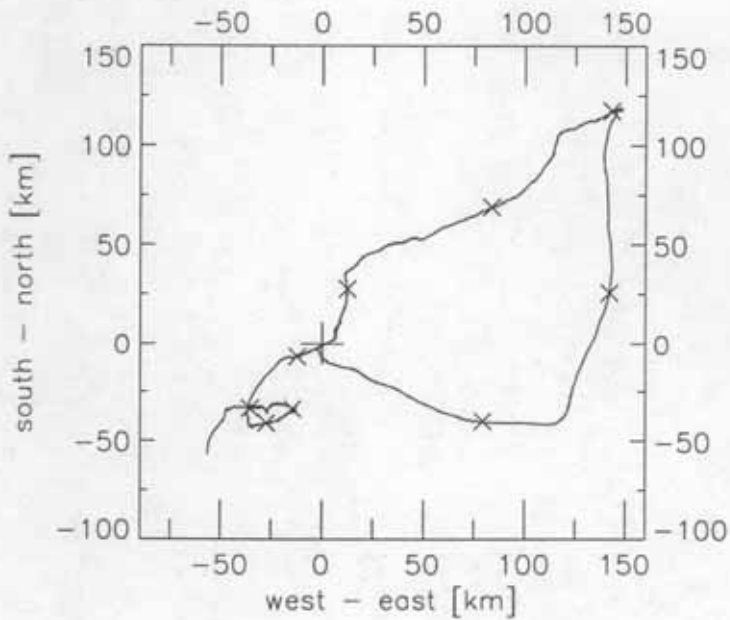
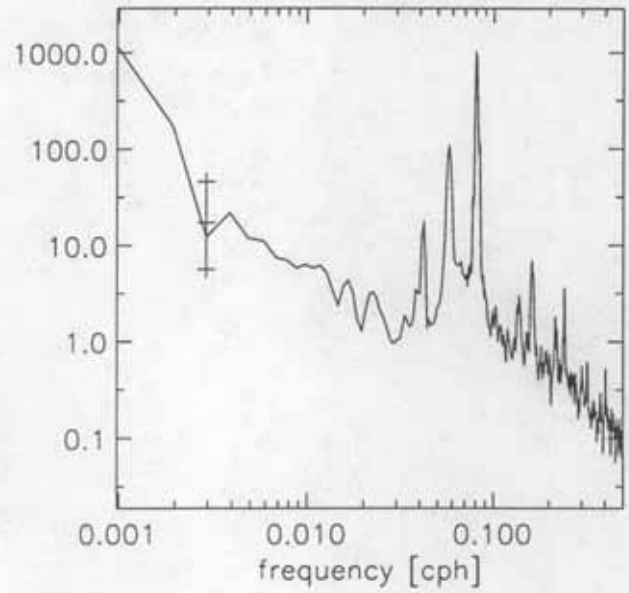
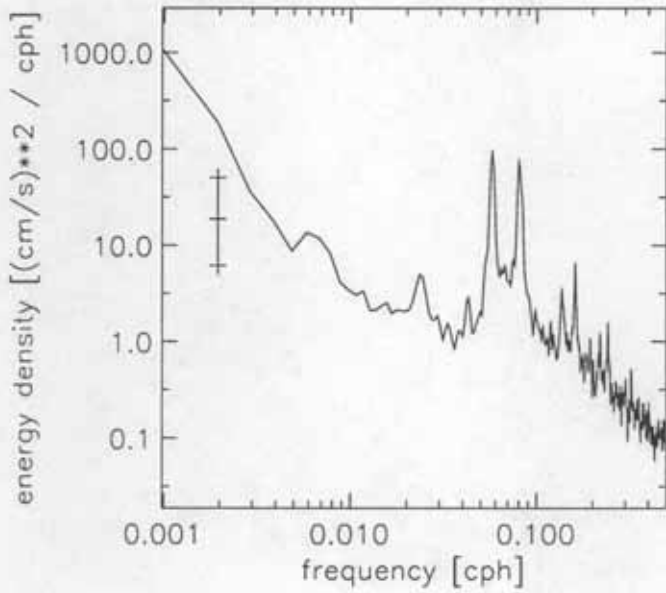


AvH

record no: a90148, sampling interval = 60.0 minutes

u-component (zonal)

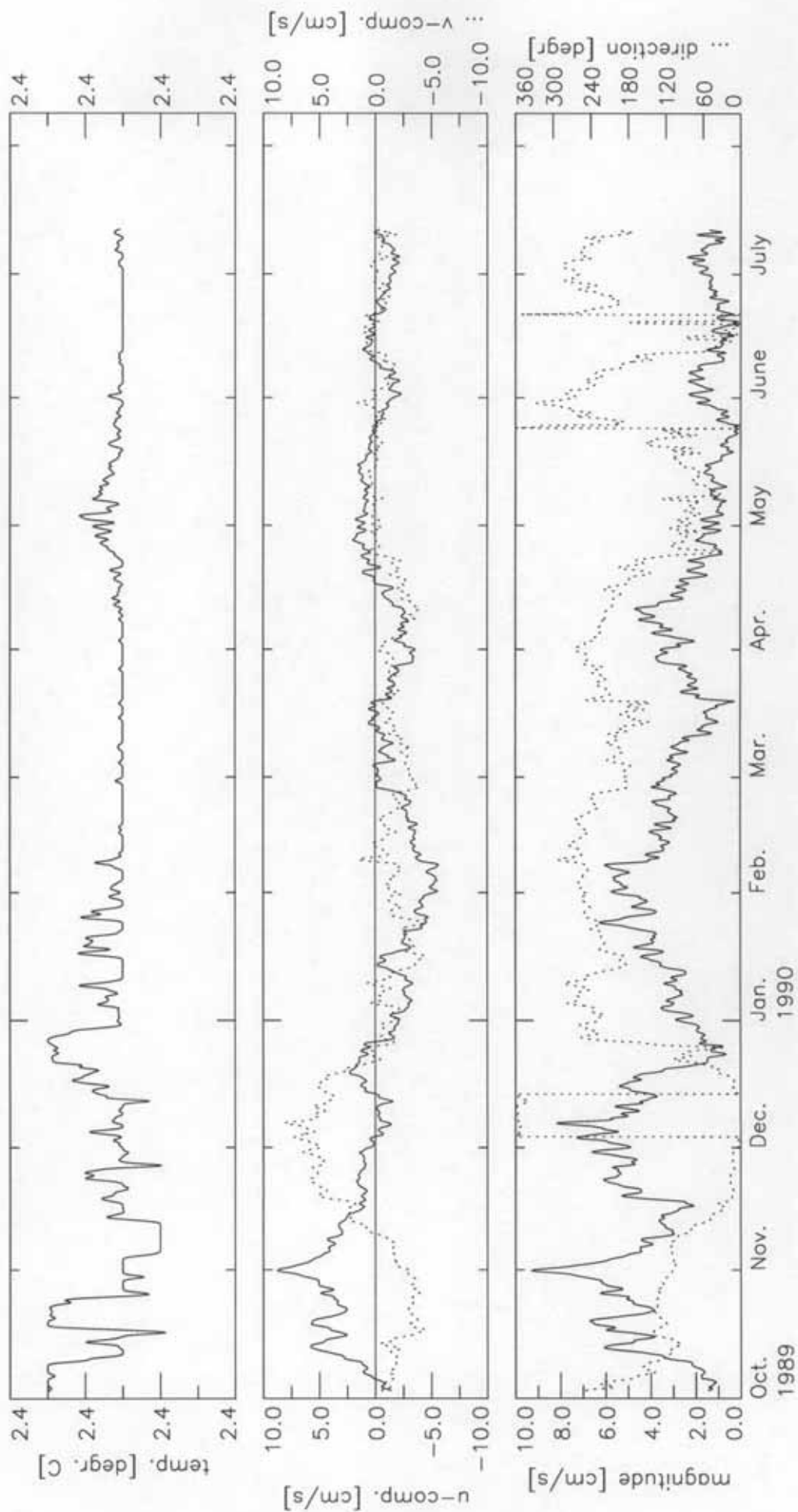
v-component (meridional)



1.10.1989 20:00 - 27. 7.1990 13:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90150, sampling depth = 5144 m

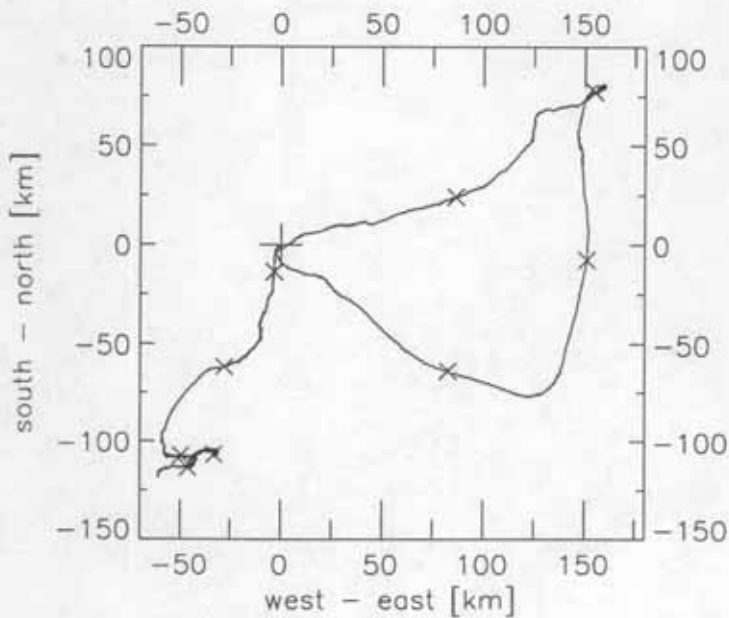
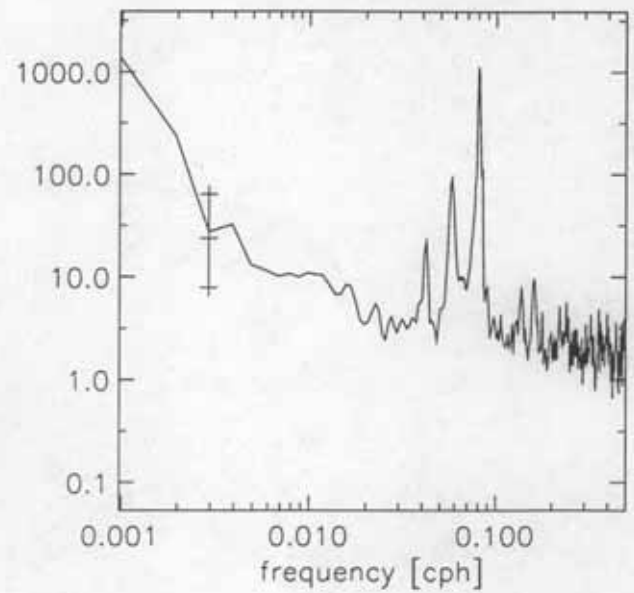
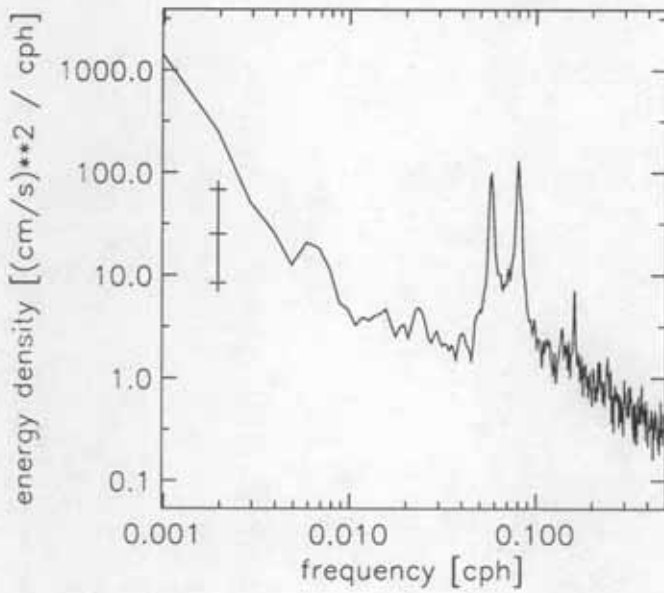


AvH

record no: a90150, sampling interval = 60.0 minutes

u-component (zonal)

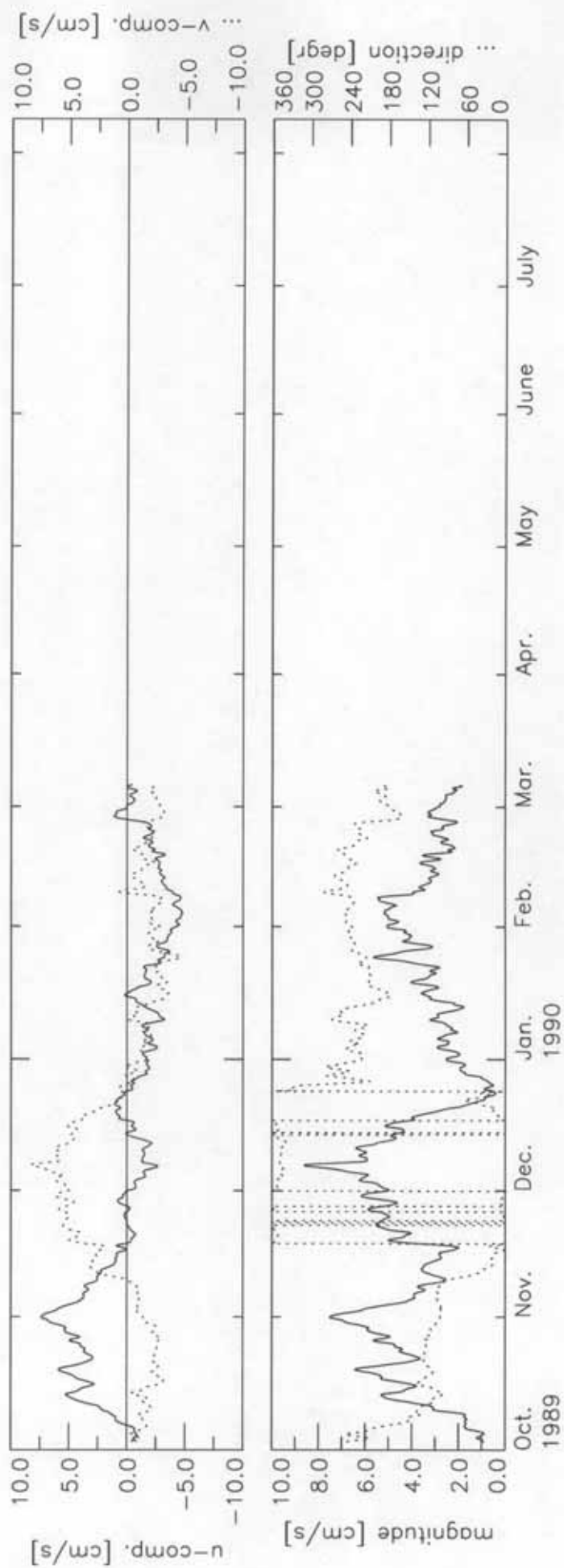
v-component (meridional)



1.10.1989 20:00 - 12. 7.1990 21:00 (UTC)

Time marks (x) are given every 720 hours

AvH, record no. = a90151, sampling depth = 5154 m

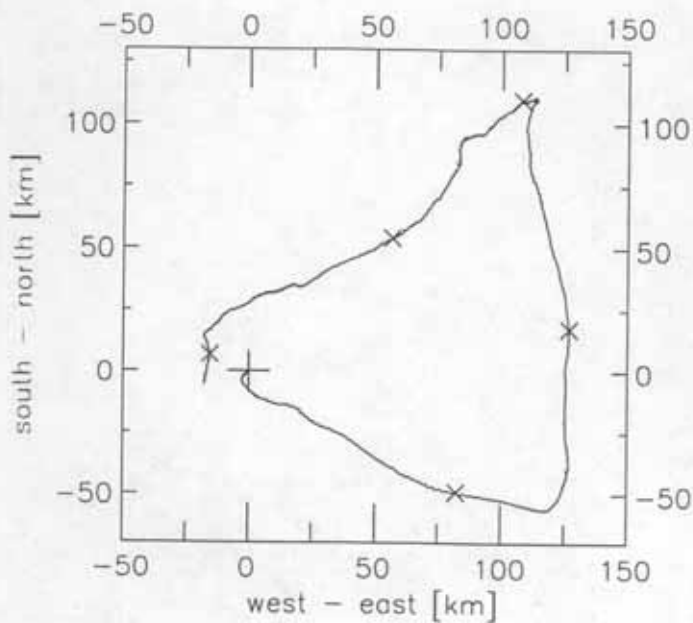
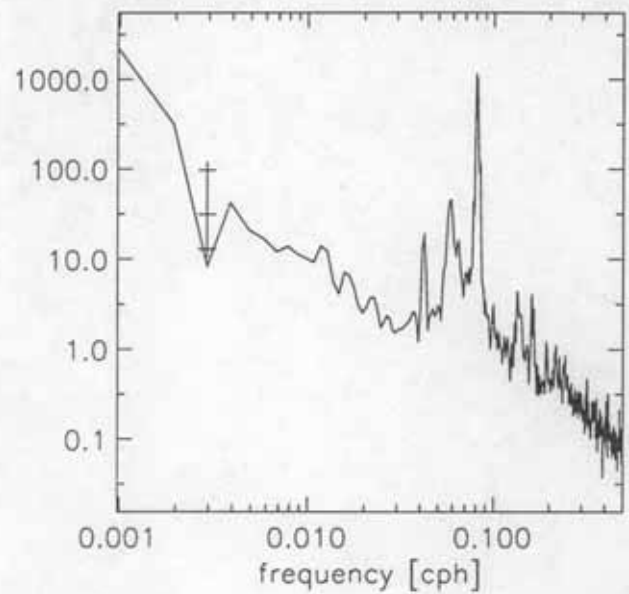
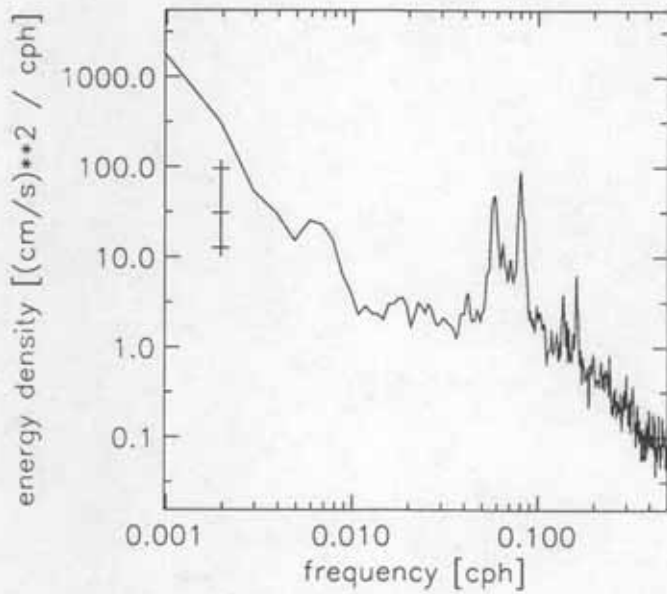


AvH

record no: a90151, sampling interval = 60.0 minutes

u-component (zonal)

v-component (meridional)



1.10.1989 22:00 - 7. 3.1990 3:00 (UTC)

Time marks (x) are given every 720 hours

K1

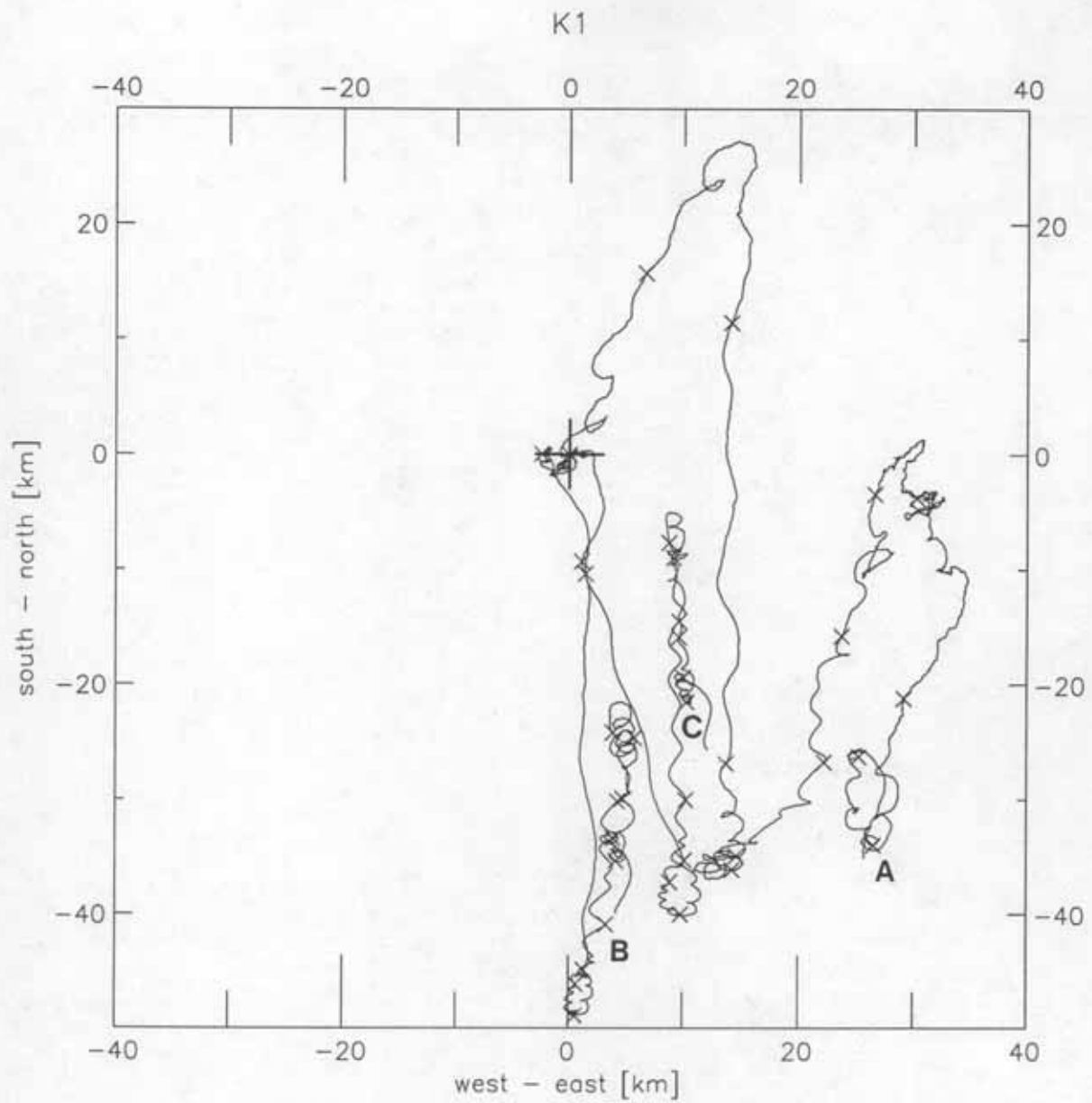
Mooring Data K1

current meter	sampl. depth	mab	record no.	sampling time
-	m	m	-	UTC
K1: 19.3.91 - 13.4.91, 40° 47.4'N, 9° 06.2'W, si = 10'				
RCM4 7242	40	65	91023	19.3.91 14:10 - 13.4.91 10:20
RCM4 8510	71	34	91024	19.3.91 14:10 - 13.4.91 08:50
RCM4 8509	98	7	91025	19.3.91 15:00 - 13.4.91 10:00

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

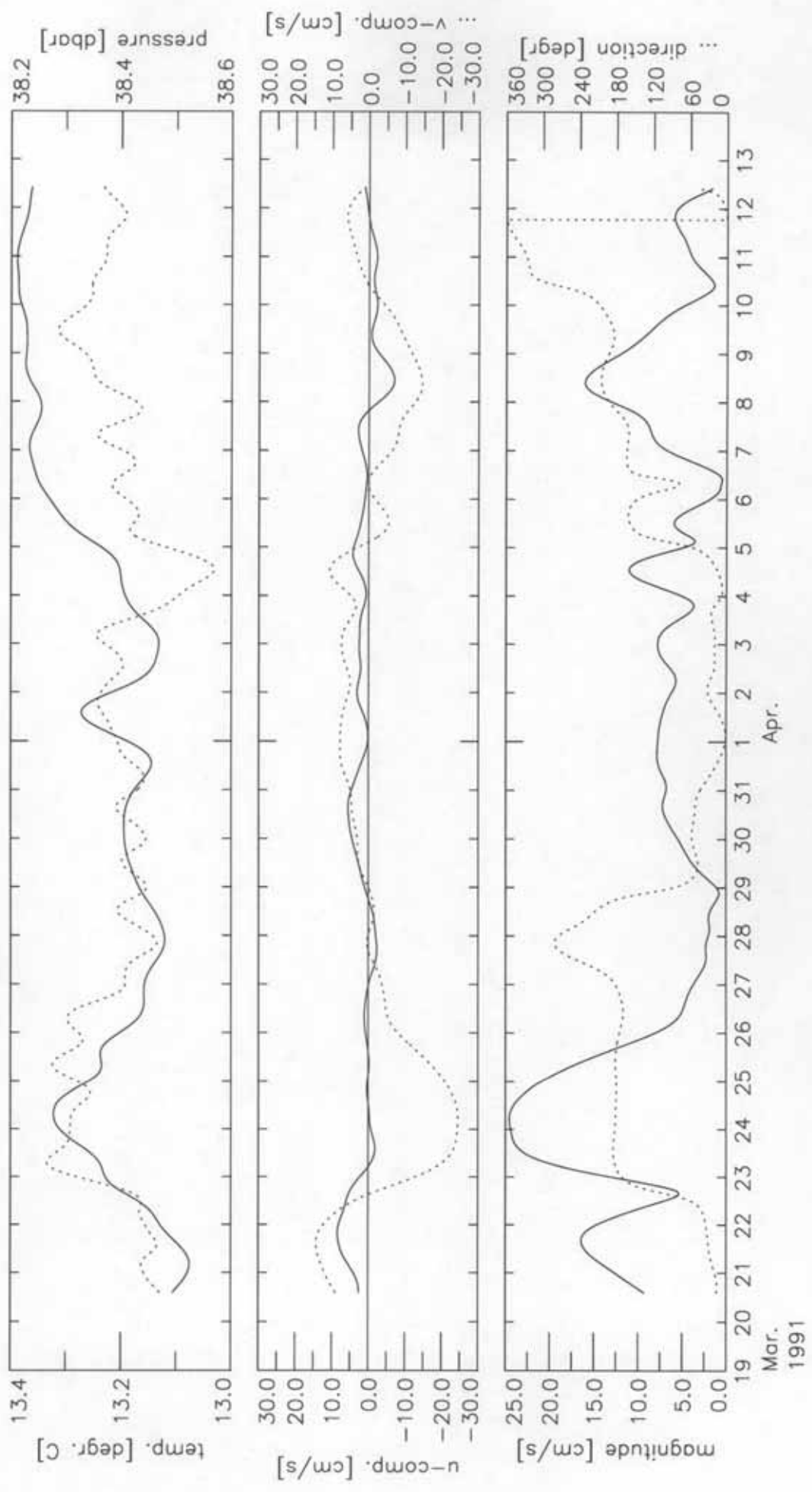
Id	sampl. depth	rec. length	\bar{u} \bar{v}	mag v	$\frac{\overline{u'u'}}{\overline{v'v'}}$	$\overline{u'v'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /s ² × 10 ⁶	°
K1:	40	1.1±0.10	15.7	8.1	15.6	52.0	0.9	2.2	0.6	144	
	71	-1.6±0.33	2.0	95.9	1.6	1.9	1.2	10.2	10.0	173	
		0.2±0.03	8.2	0.7		24.4	0.7	0.5	<0.1		
		-1.6±0.24	1.7	48.0		1.4	1.5	9.1	6.3		
		0.6±0.06	7.3	3.4	-9.8	23.9	1.1	1.8	0.3	148	
		-0.9±0.23	1.1	44.4		0.6	1.6	9.1	6.0		



Time marks (x) are given every 48 hours

Ao91023; sd= 40 m; 19. 3.1991 15:00 - 13. 4.1991 10:20 (UTC)
Bo91024; sd= 71 m; 19. 3.1991 15:00 - 13. 4.1991 8:50 (UTC)
Co91025; sd= 98 m; 19. 3.1991 15:00 - 13. 4.1991 10:00 (UTC)

K1, record no. = a91023, sampling depth = 40 m

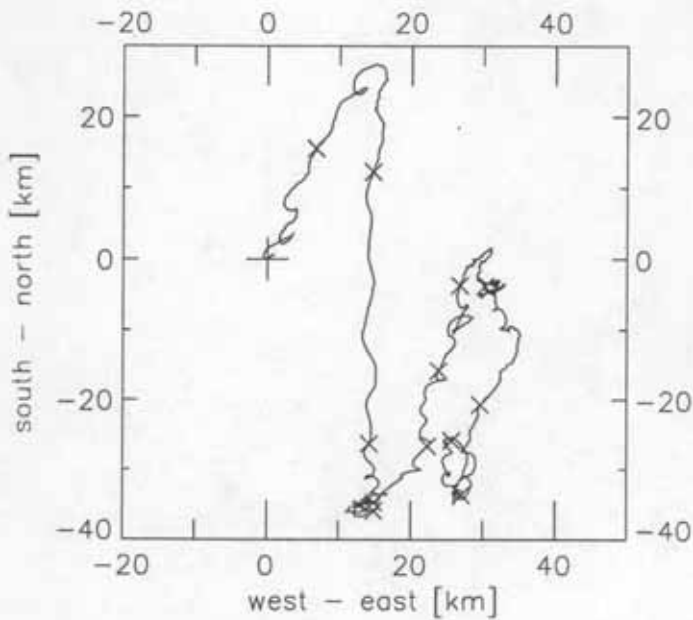
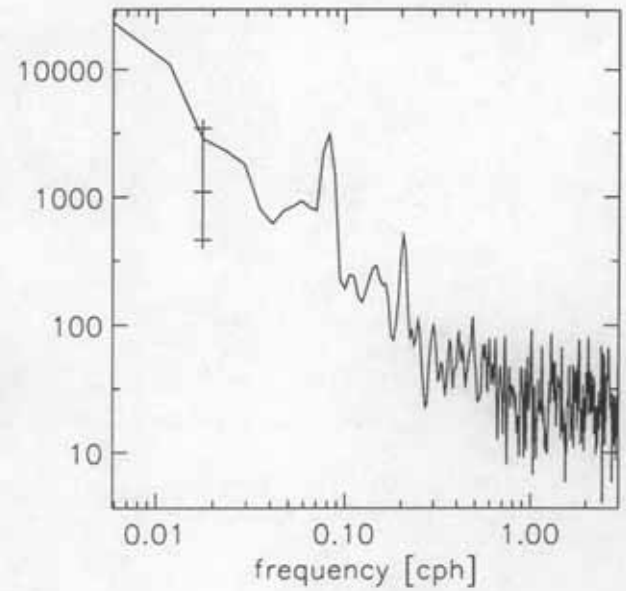
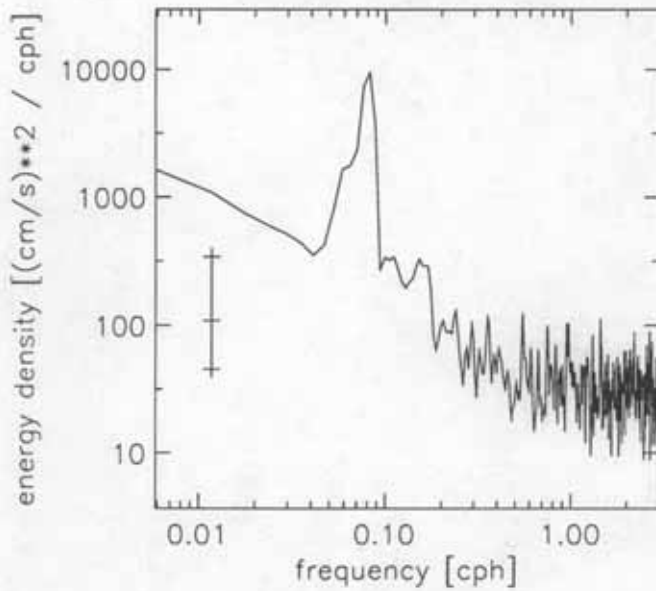


K1

record no: a91023, sampling interval = 10.0 minutes

u-component (zonal)

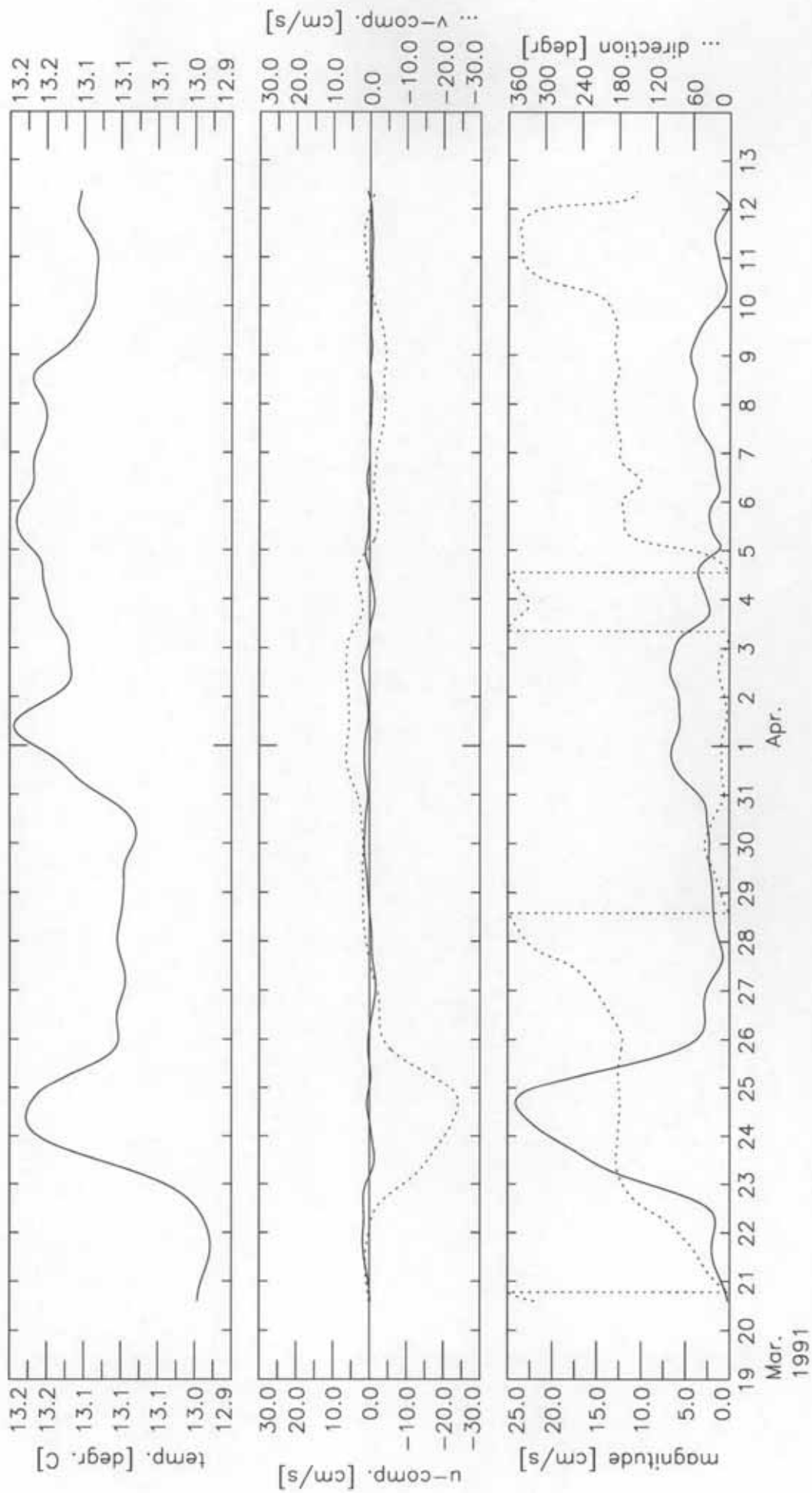
v-component (meridional)



19. 3.1991 14:10 - 13. 4.1991 10:20 (UTC)

Time marks (x) are given every 48 hours

K1, record no. = a91024, sampling depth = 71 m

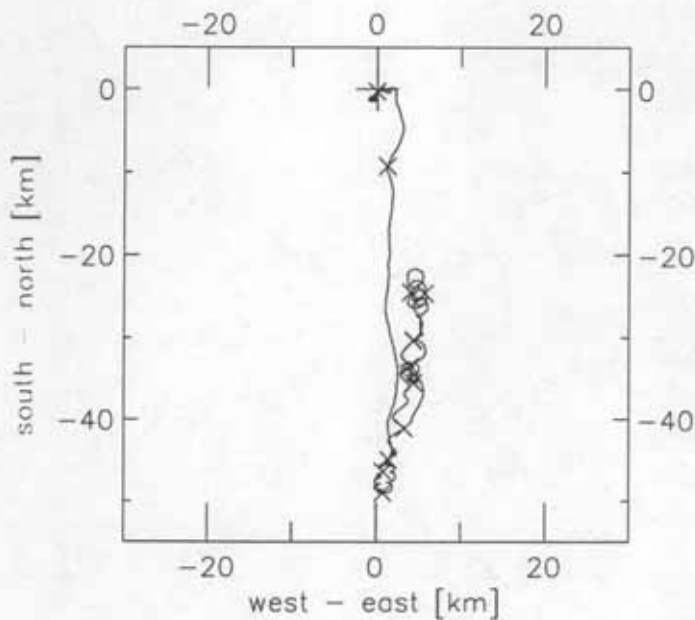
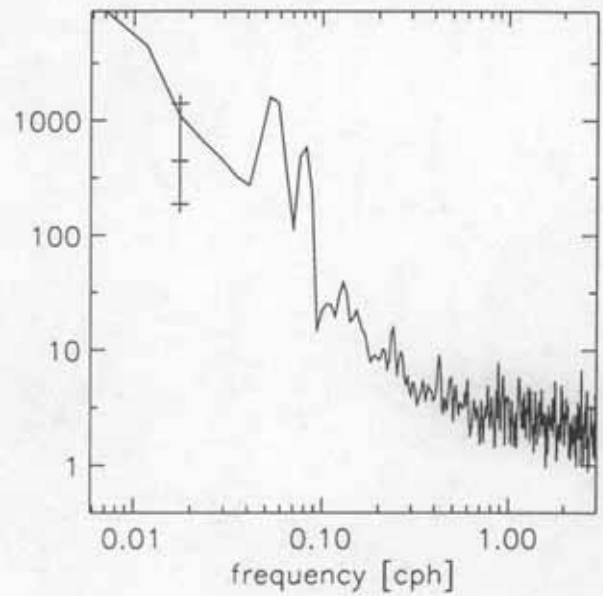
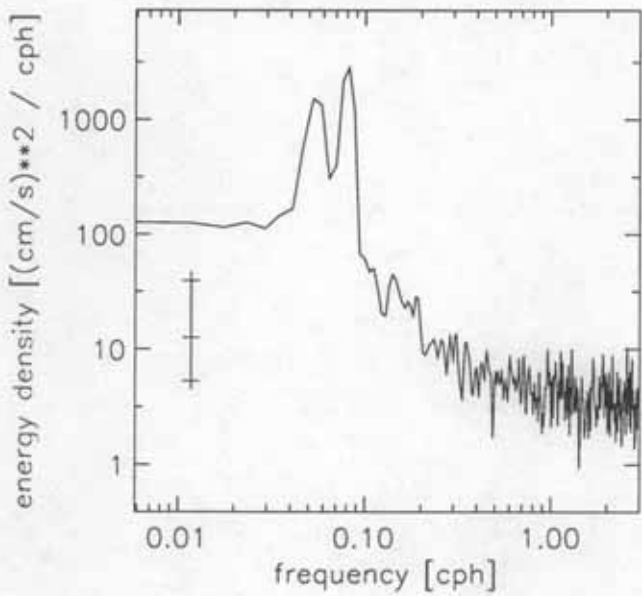


K1

record no: a91024, sampling interval = 10.0 minutes

u-component (zonal)

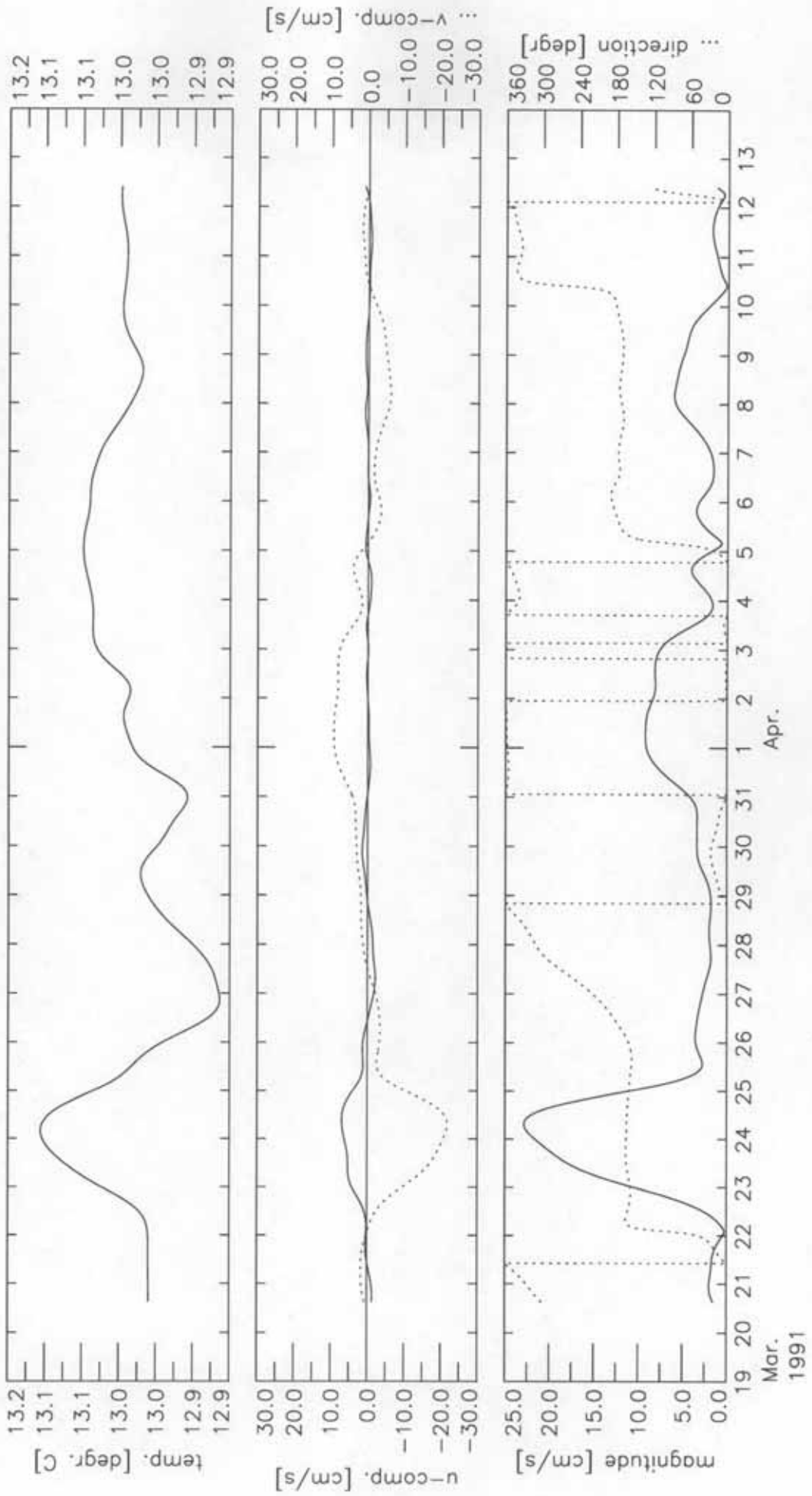
v-component (meridional)



19. 3.1991 14:10 - 13. 4.1991 8:50 (UTC)

Time marks (x) are given every 48 hours

K1, record no. = a91025, sampling depth = 98 m

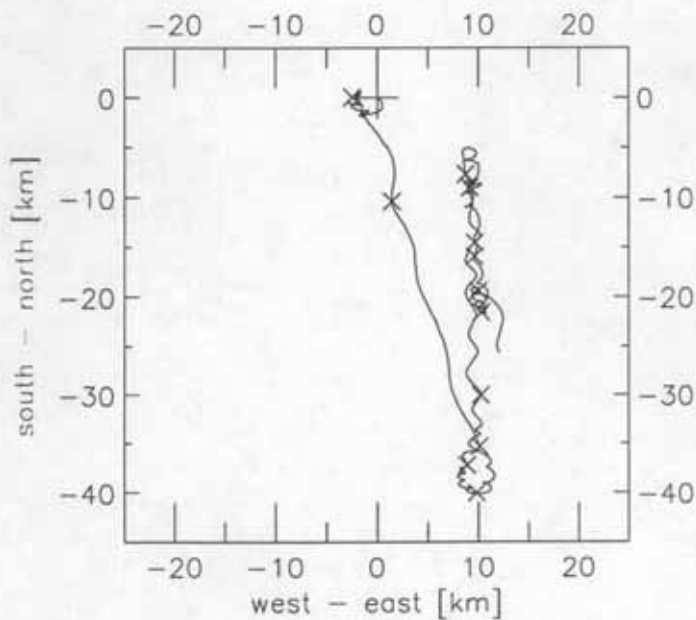
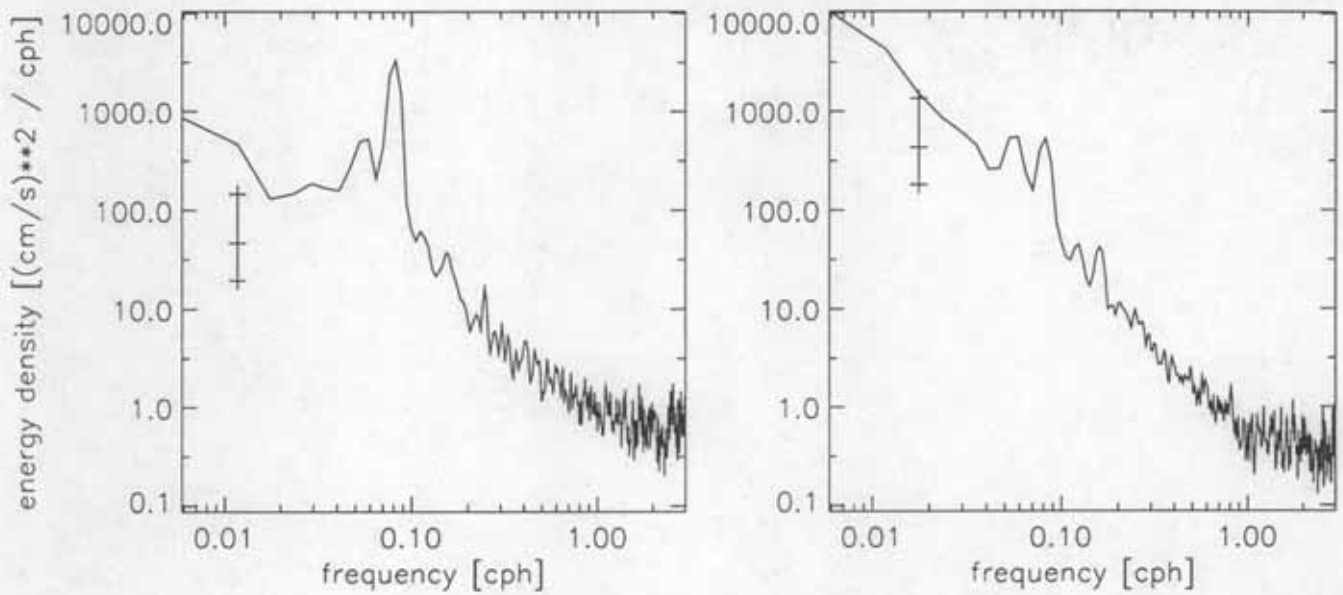


K1

record no: a91025, sampling interval = 10.0 minutes

u-component (zonal)

v-component (meridional)



19. 3.1991 15:00 - 13. 4.1991 10:00 (UTC)

Time marks (x) are given every 48 hours

WH

Mooring Data WH

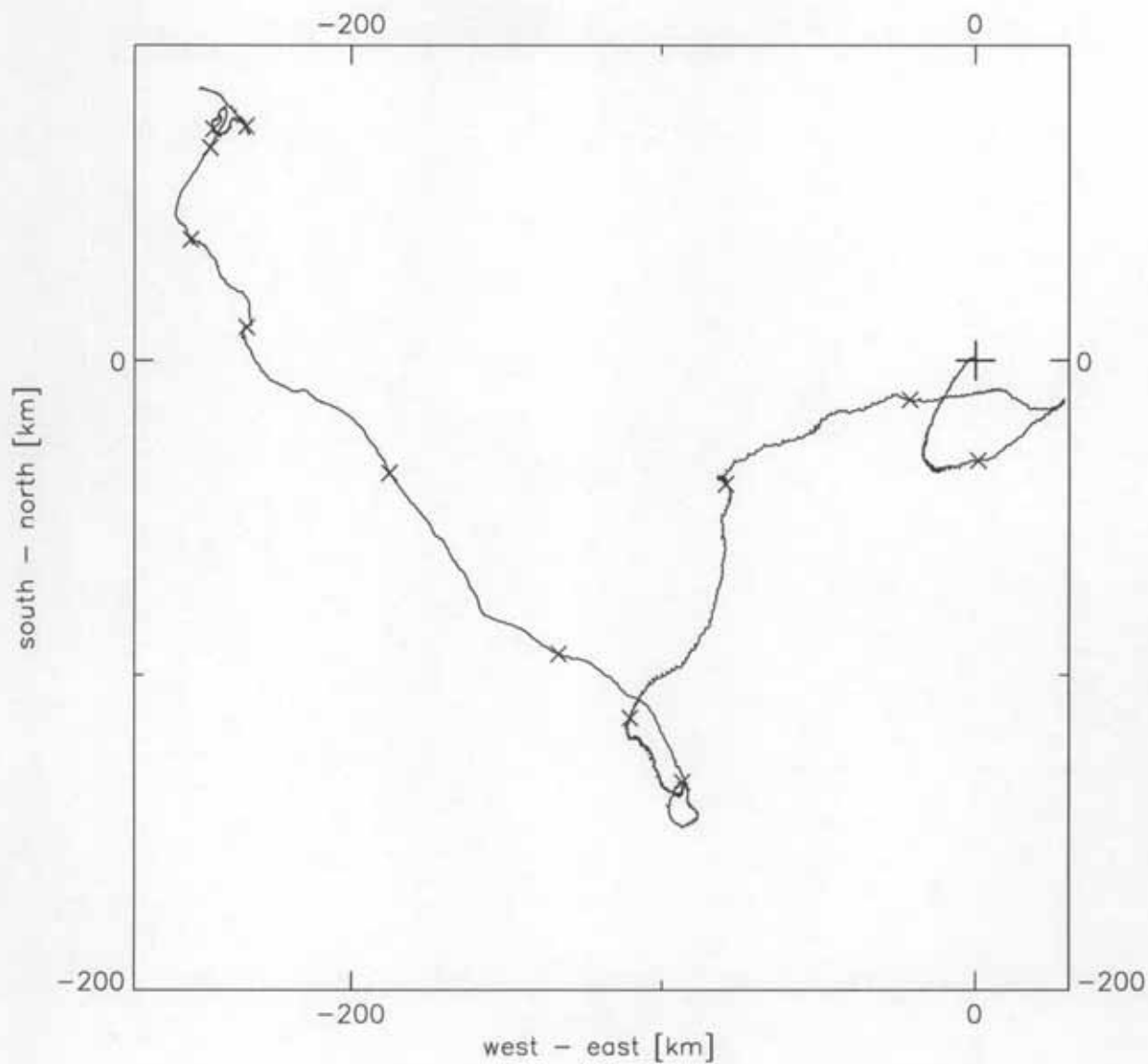
current meter	sampl. depth	mab	record no.	sampling time
-	m	m	-	UTC
WH: 15.8.90 - 27.8.91, 40° 13.3'N, 10° 15.7'W, si = 60'				
RCM5 6787	1164	2736	91088	15.8.90 12:00 - 26.8.91 05:00 ¹⁾
RCM5 6785	1564	2336	91089	15.8.90 12:00 - 27.8.91 07:00

mab = metres above bottom, si = sampling interval
¹⁾speed only, no direction

Current statistics (low-passed data)

Id	sampl. depth	rec. length	\bar{u} \bar{v}	cm/s	mag V	$\frac{\overline{u'u'}}{\overline{v'v'}}$	$\overline{u'v'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /sx10 ⁶	°
WH: 1564	377	-0.8±0.04 0.3±0.04		3.0 0.8	3.0 3.4	-0.1	3.2 0.3	8.0 20.1	12.0 31.9	2.1 5.9	289	

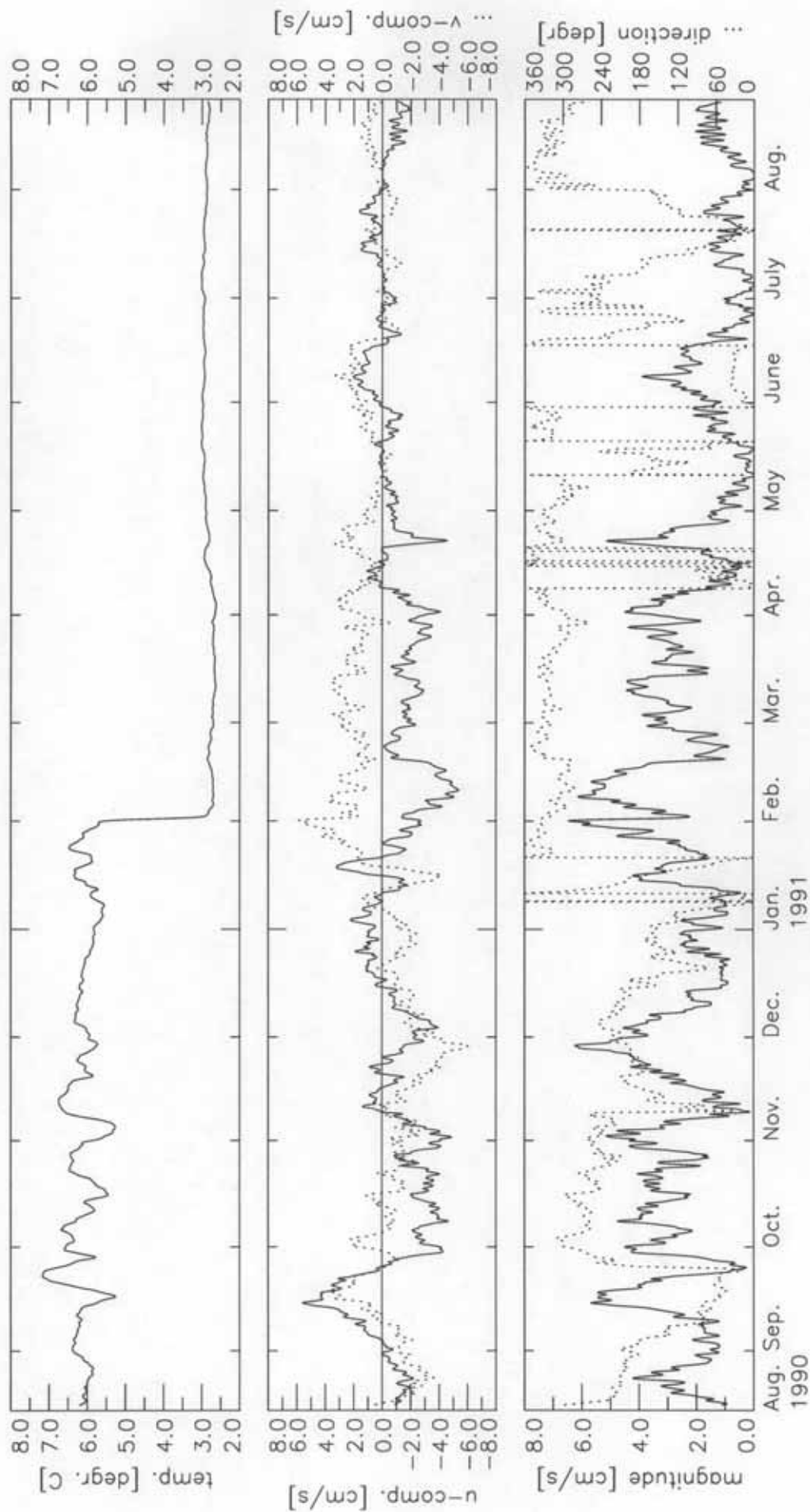
WH



Time marks (x) are given every 720 hours

o91089; sd= 1564 m; 15. 8.1990 12:00 - 27. 8.1991 7:00 (UTC)

WH, record no. = a91089, sampling depth = 1564 m

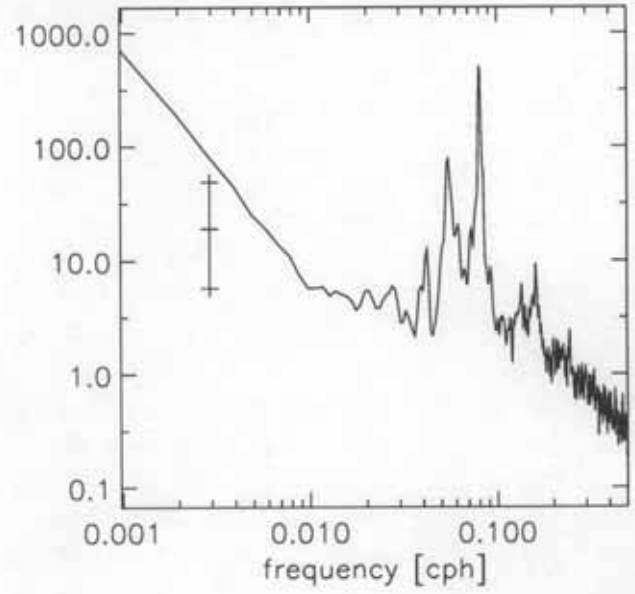
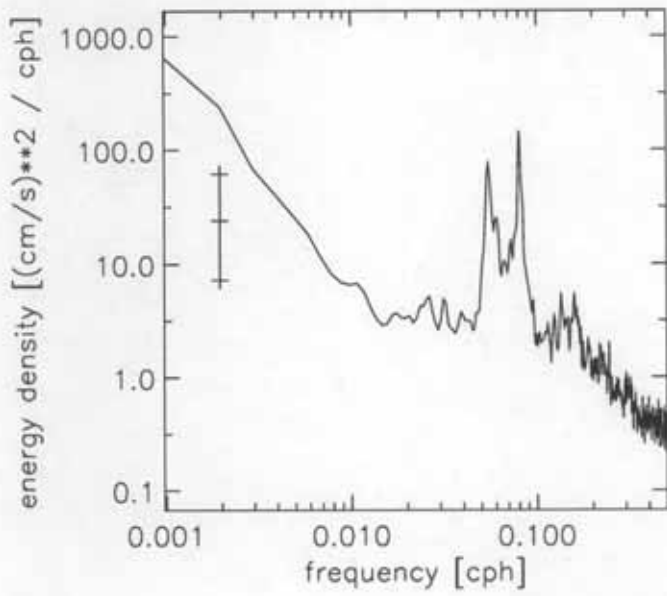


WH

record no: a91089, sampling interval = 60.0 minutes

u-component (zonal)

v-component (meridional)



P3

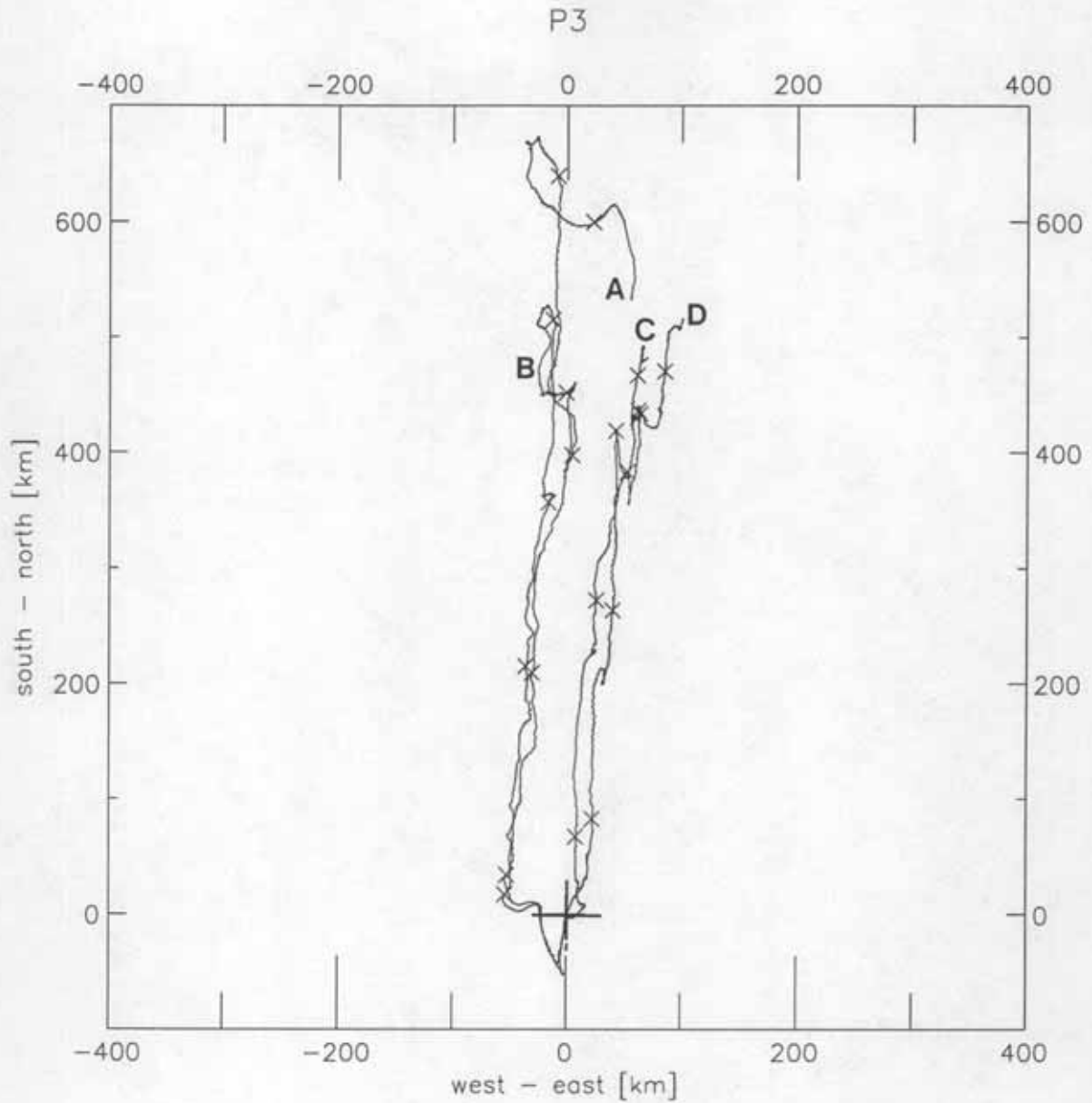
Mooring Data P3

current meter	sampl. depth	mab	record no.	sampling time					
-	m	m	-	UTC					
P3:	30.7.83	- 14.1.84	40°	1.8'N,	9°	45.2'W,	si = 30'		
RCM4	6559	260	650	83081	30.7.83	11:40	- 14.1.84	07:10	
RCM4	5933	410	500	83080	30.7.83	11:40	- 14.1.84	07:40	
RCM4	6143	650	260	83079	30.7.83	11:40	- 14.1.84	07:10	
RCM4	4889	810	100	83078	30.7.83	11:40	- 14.1.84	07:10	

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

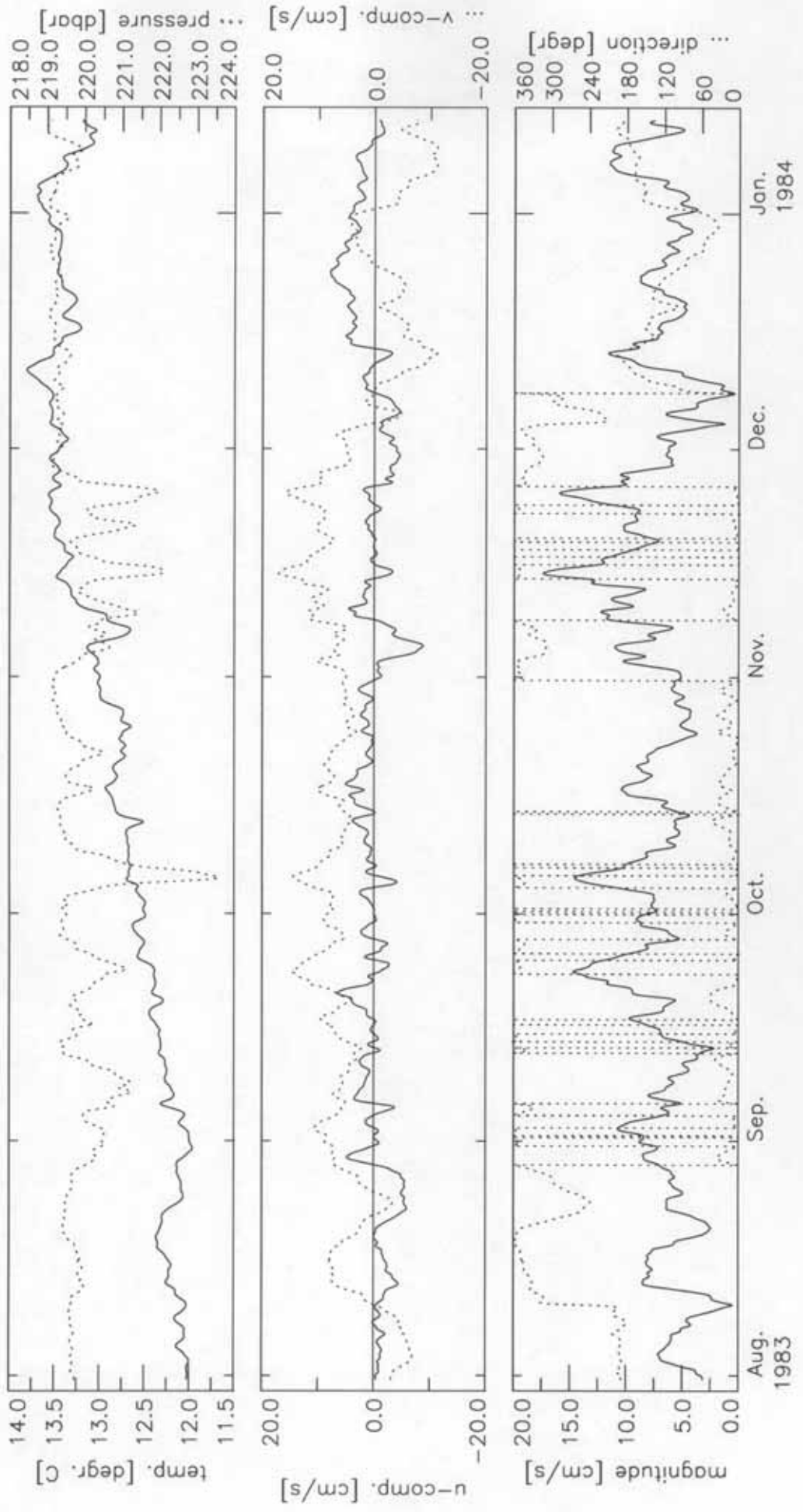
Id	sampl. depth	rec. length	\bar{u} \bar{v}	mag v	$\frac{\overline{u'u'}}{\overline{v'v'}}$	$\overline{u'v'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /sx10 ⁶	°
P3:	260	0.4±0.06	9.2	8.1	-2.1	23.9	5.2	12.9	3.7	6	
	410	3.8±0.14	3.8	39.7	0.8	7.2	10.3	55.9	35.2	0	
	650	0.0±0.05	7.9	4.7	3.8	18.9	2.8	5.2	1.1	8	
	810	2.8±0.13	2.8	33.1	1.3	3.8	9.0	44.7	25.8	11	
		0.5±0.03	6.9	1.4	10.8	5.7	1.6	1.7	0.2		
		3.3±0.10	3.4	20.3	-0.9	10.1	4.7	18.3	8.3		
		0.7±0.02	7.6	1.0		6.7	1.4	1.2	0.1		
		3.6±0.10	3.6	19.2			3.3	12.6	5.5		



Time marks (x) are given every 720 hours

A	α 83081;	sd= 260 m;	30. 7.1983	11:40 - 14. 1.1984	7:10 (UTC)
B	α 83080;	sd= 410 m;	30. 7.1983	11:40 - 14. 1.1984	7:40 (UTC)
C	α 83079;	sd= 650 m;	30. 7.1983	11:40 - 14. 1.1984	7:10 (UTC)
D	α 83078;	sd= 810 m;	30. 7.1983	11:40 - 14. 1.1984	7:10 (UTC)

P3, record no. = a83081, sampling depth = 260 m

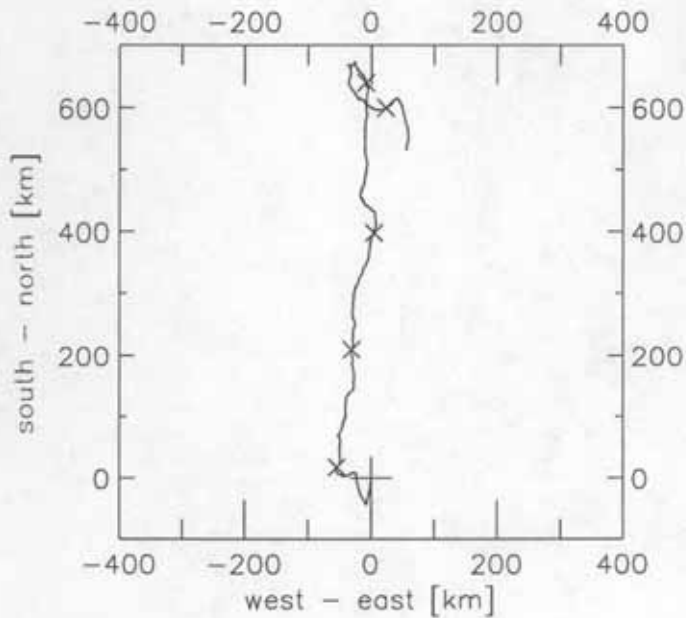
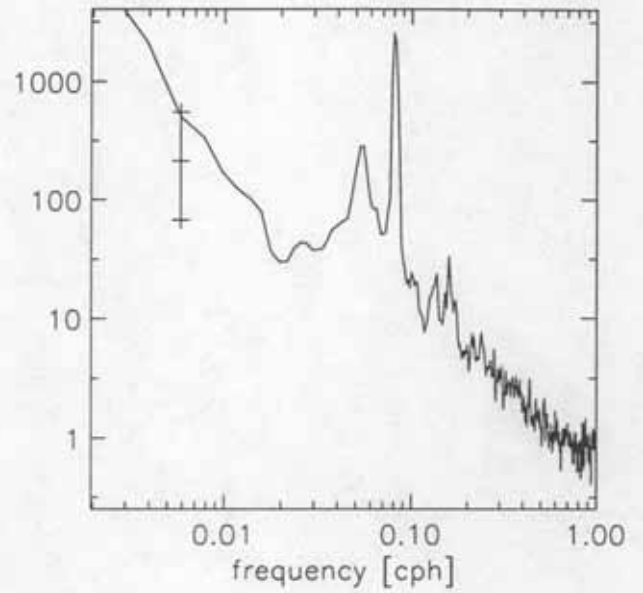
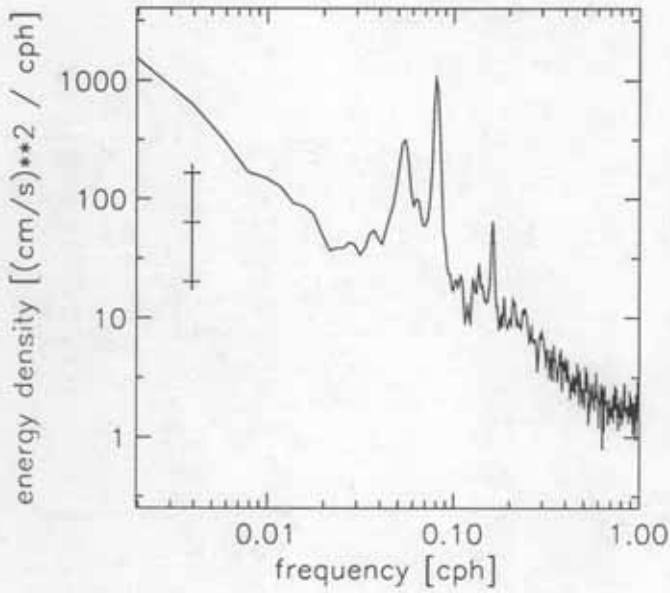


P3

record no: a83081, sampling interval = 30.0 minutes

u-component (zonal)

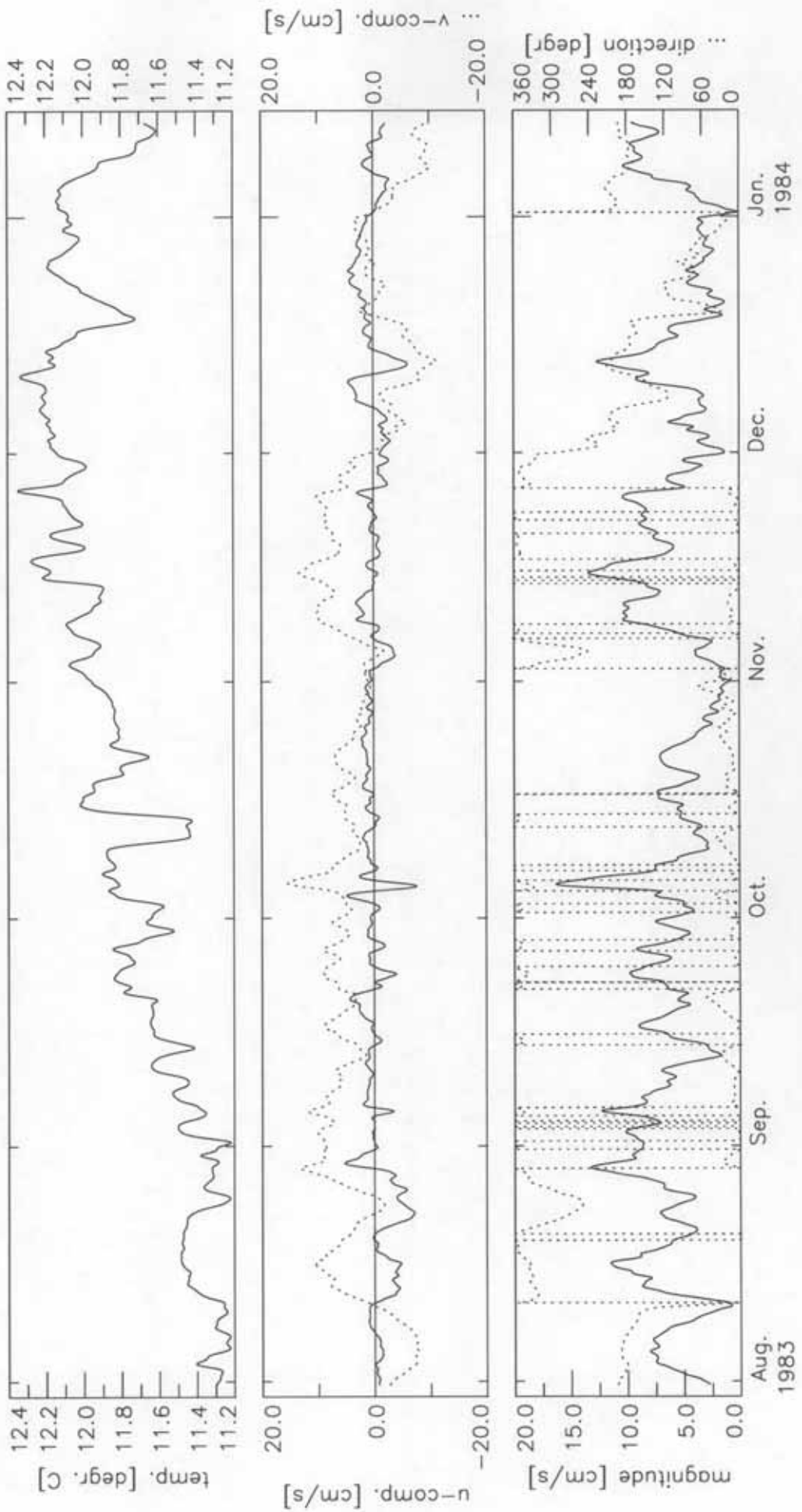
v-component (meridional)



30. 7.1983 11:40 - 14. 1.1984 7:10 (UTC)

Time marks (x) are given every 720 hours

P3, record no. = a83080, sampling depth = 410 m

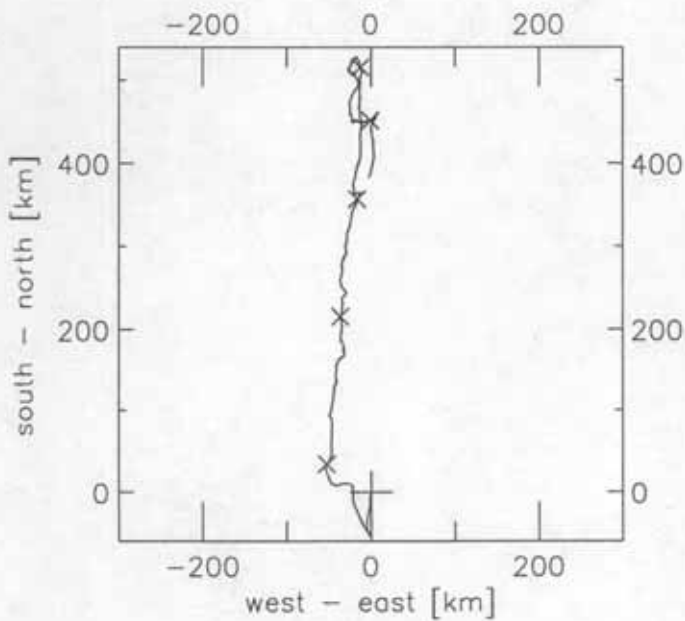
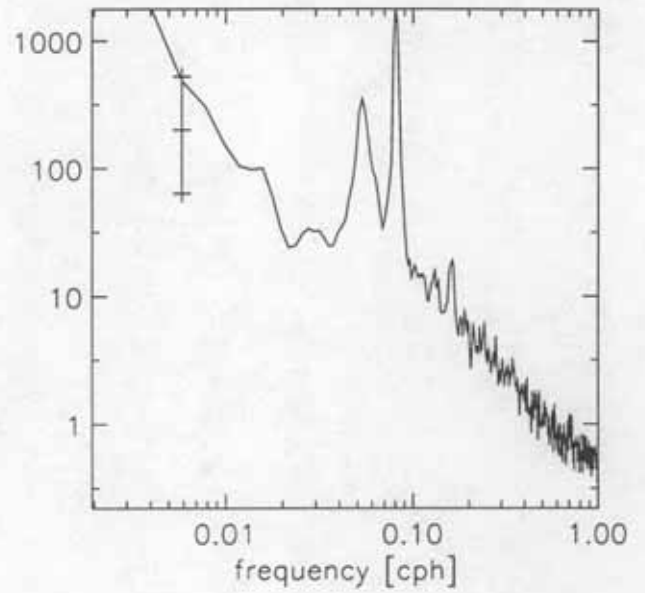
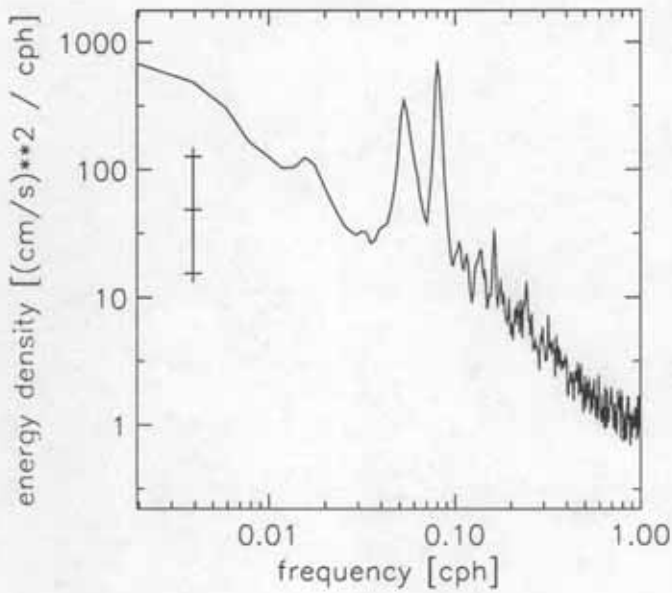


P3

record no: a83080, sampling interval = 30.0 minutes

u-component (zonal)

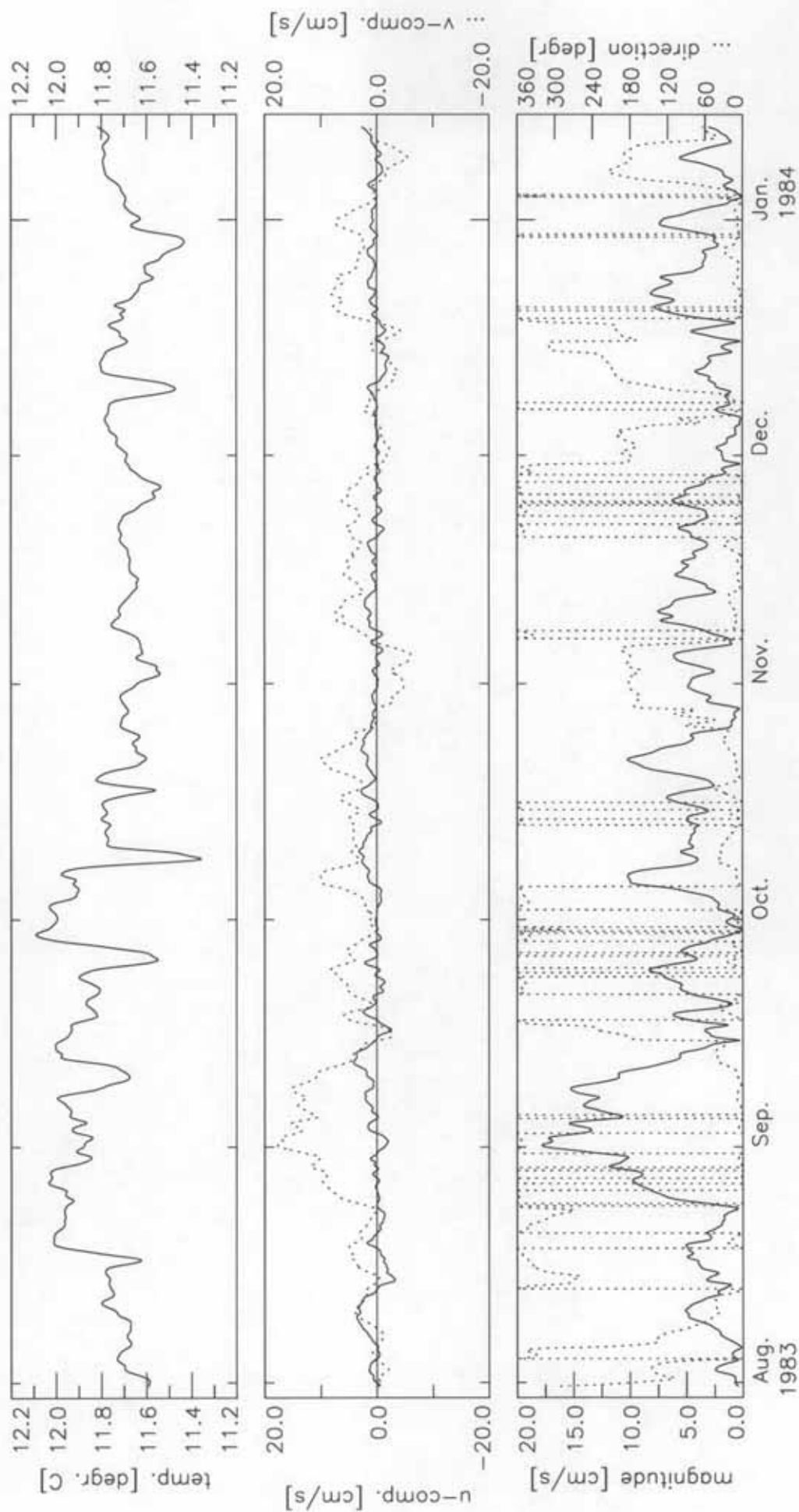
v-component (meridional)



30. 7.1983 11:40 - 14. 1.1984 7:40 (UTC)

Time marks (x) are given every 720 hours

P3, record no. = a83079, sampling depth = 650 m

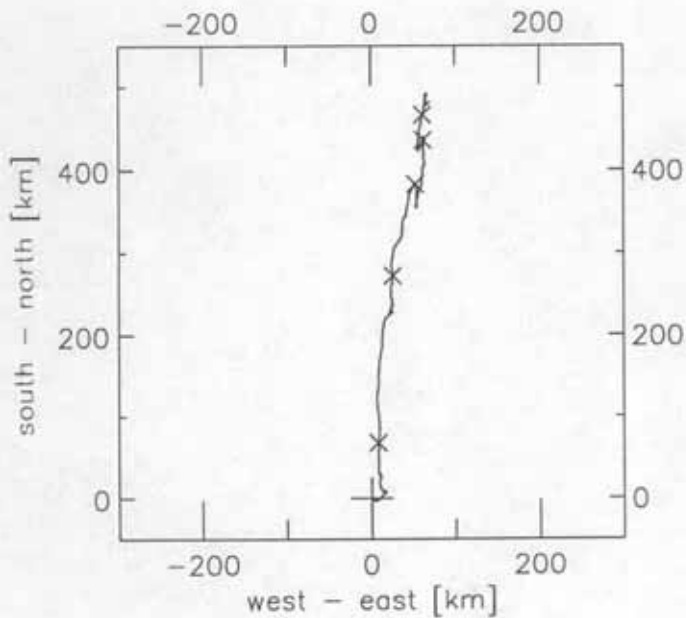
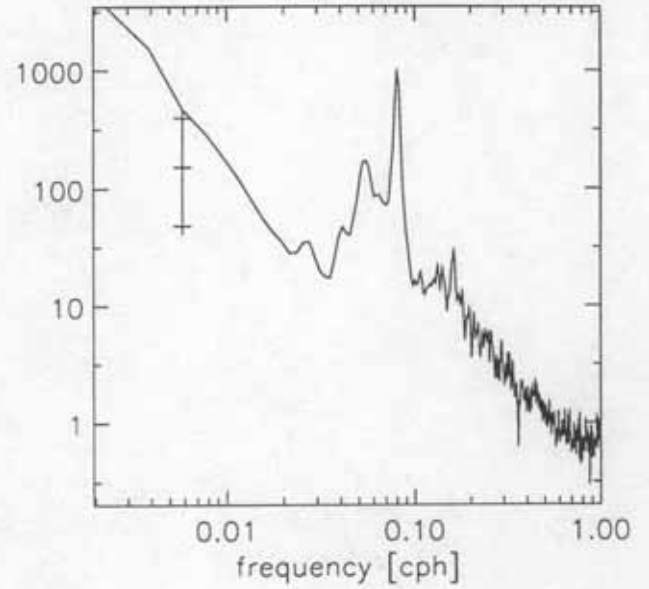
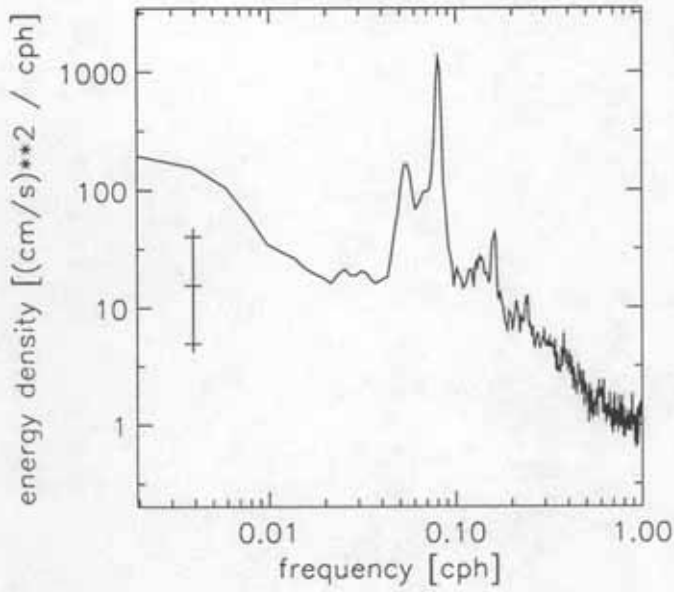


P3

record no: a83079, sampling interval = 30.0 minutes

u-component (zonal)

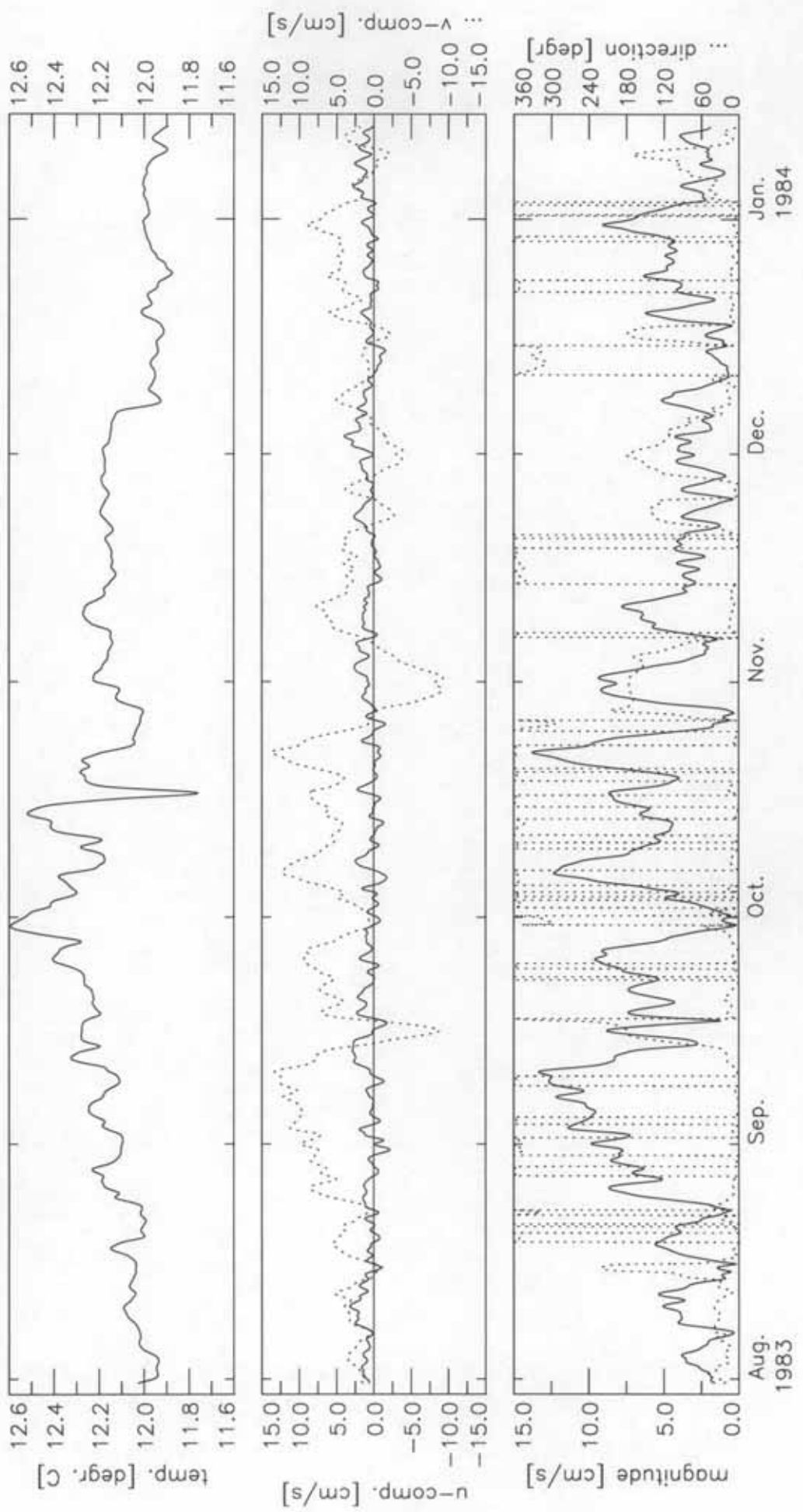
v-component (meridional)



30. 7.1983 11:40 - 14. 1.1984 7:10 (UTC)

Time marks (x) are given every 720 hours

P3, record no. = a83078, sampling depth = 810 m

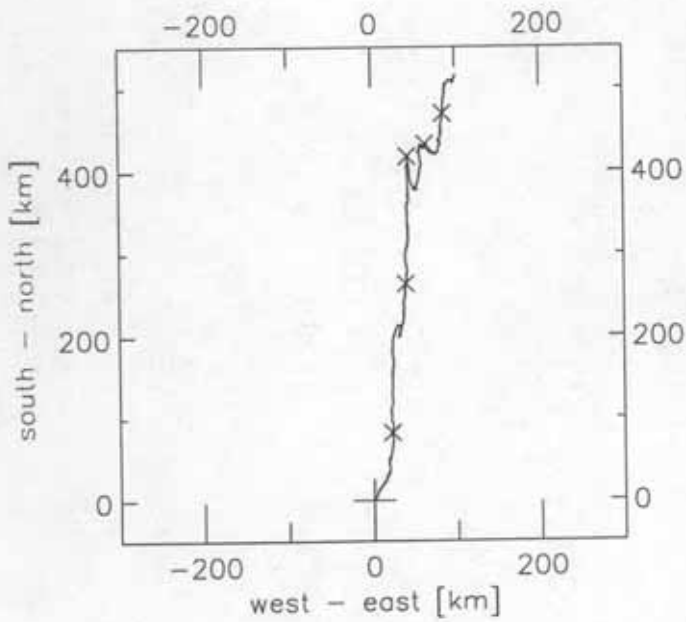
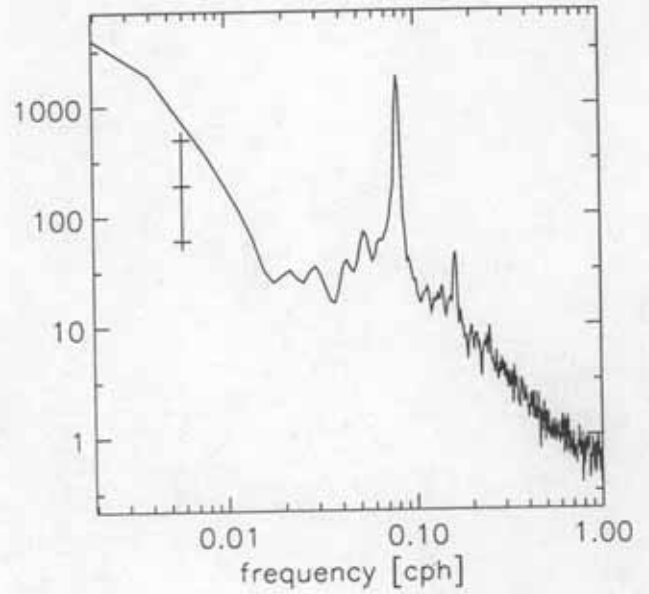
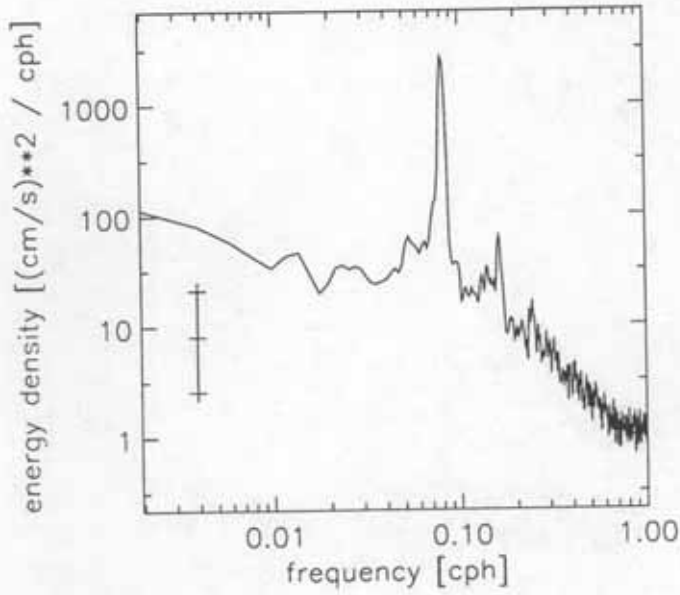


P3

record no: a83078, sampling interval = 30.0 minutes

u-component (zonal)

v-component (meridional)



30. 7.1983 11:40 - 14. 1.1984 7:10 (UTC)

Time marks (x) are given every 720 hours

CS

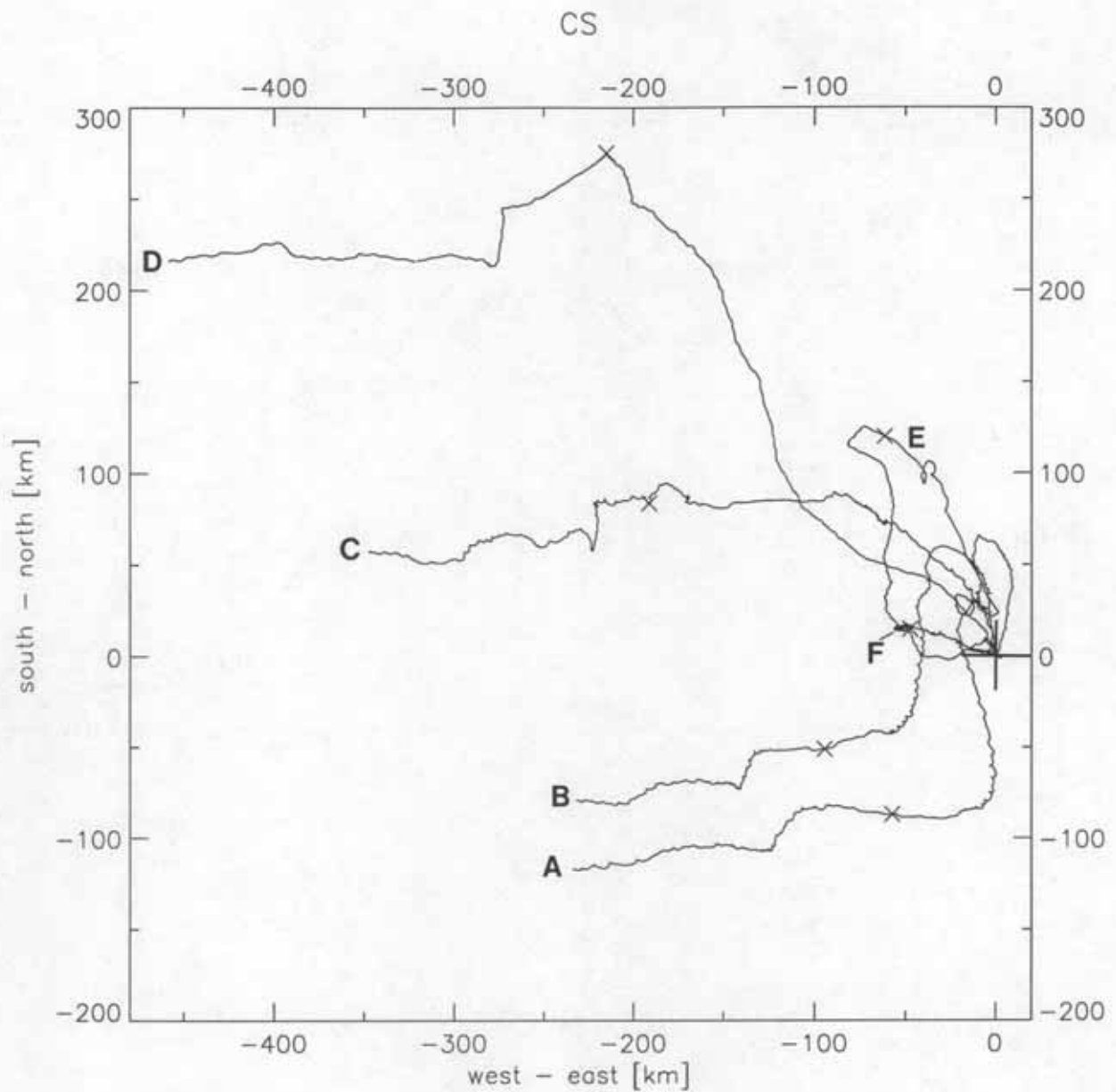
Mooring Data CS

current meter	sampl. depth	mab	record no.	sampling time
-	m	m	-	UTC
CS: 28.3.92 - 19.5.92, 36° 37.1'N, 9° 22.0'W, si = 60'				
RCM8 10586	235	1725	92047	28.3.92 19:00 - 19.5.92 10:00
RCM5 6833	337	1623	92048	28.3.92 19:00 - 19.5.92 10:00
RCM8 10590	538	1422	92049	28.3.92 19:00 - 19.5.92 10:00
RCM8 10588	753	1207	92050	28.3.92 19:00 - 19.5.92 08:00
RCM5 6966	1254	706	92051	28.3.92 19:00 - 19.5.92 10:00
RCM8 10081	1855	105	92052	28.3.92 19:00 - 19.5.92 10:00

mab = metres above bottom, si = sampling interval

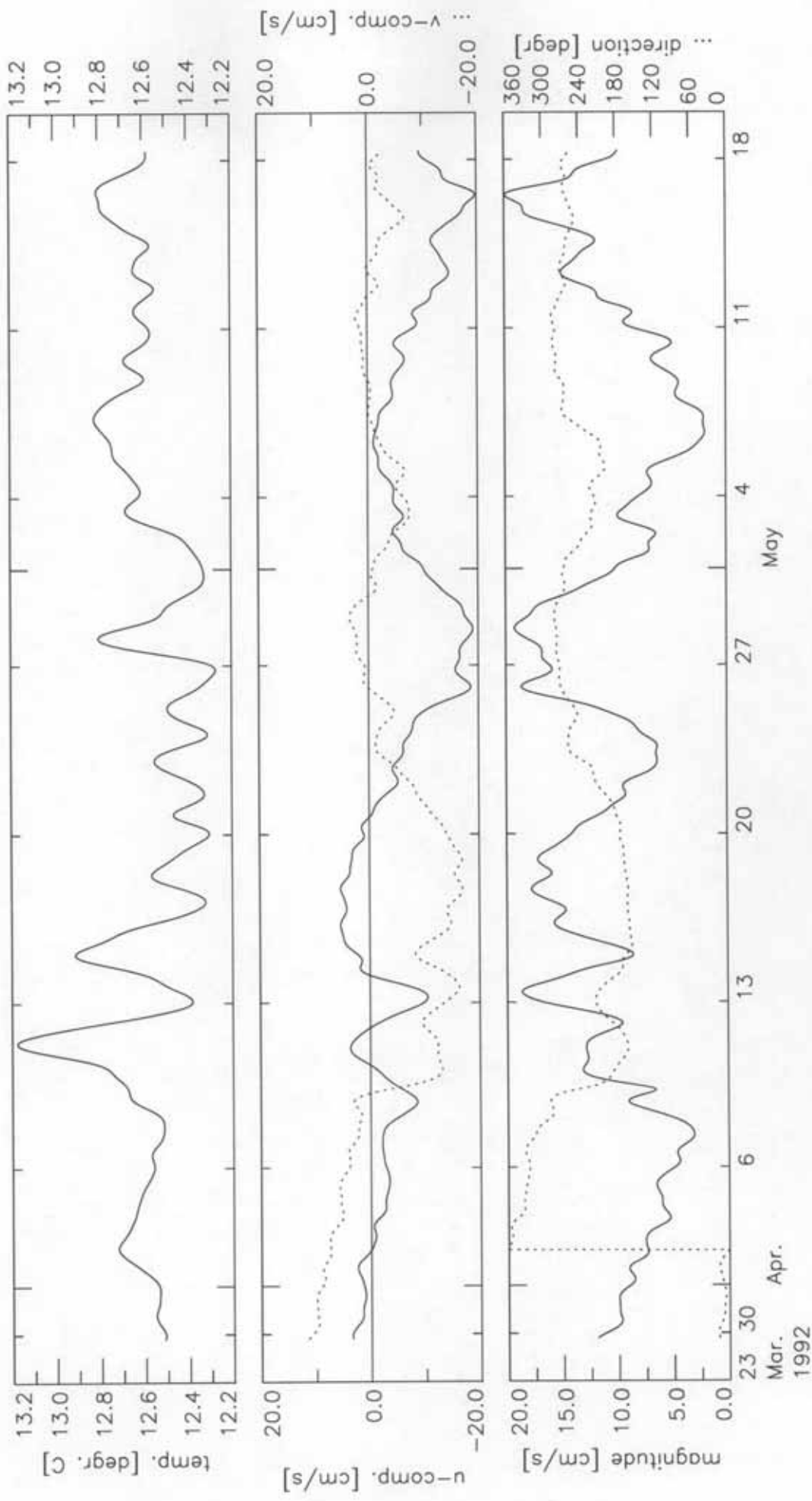
Current statistics (low-passed data)

Id	sampl. depth	rec. length	\bar{u} \bar{v}	cm/s	mag V	$\frac{\overline{u'u'}}{\overline{v'v'}}$	$\overline{u'v'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /s ² × 10 ⁶	°
CS:	235	50	-5.3±0.37	12.1	44.2	-12.4	47.6	3.0	17.5	11.6	241	
	337	50	-2.9±0.41	6.1	51.0	-2.4	18.5	3.7	23.1	16.5	248	
	538	50	-5.2±0.23	10.2	17.1	-2.4	23.8	2.7	9.8	4.0	278	
	753	50	-2.1±0.31	5.6	30.4	2.7	15.6	3.4	16.0	8.8	296	
	1254	50	-7.5±0.37	12.1	42.7	9.5	33.6	1.5	8.7	5.7	346	
	1855	50	1.1±0.28	7.8	24.5	-29.4	30.6	3.2	13.8	6.8	289	
			-10.2±0.37	15.1	41.6	0.2	55.2	1.8	9.9	6.4		
			4.9±0.47	11.3	68.9	-1.6	63.6	6.1	44.0	36.5		
			-0.1±0.41	10.8	51.9	8.9	60.3	1.6	10.1	7.2		
			0.6±0.47	0.6	68.8	0.7	0.2	3.5	24.8	20.6		
			-1.1±0.05	4.6	8.9	0.8	4.9	0.8	2.1	0.6		
			0.4±0.05	1.2	0.8	0.8	0.7	0.8	0.6	<0.1		



- A**_{a92047}; sd= 235 m; 28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)
- B**_{a92048}; sd= 337 m; 28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)
- C**_{a92049}; sd= 538 m; 28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)
- D**_{a92050}; sd= 753 m; 28. 3.1992 19:00 - 19. 5.1992 8:00 (UTC)
- E**_{a92051}; sd= 1254 m; 28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)
- F**_{a92052}; sd= 1855 m; 28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)

CS, record no. = a92047, sampling depth = 235 m

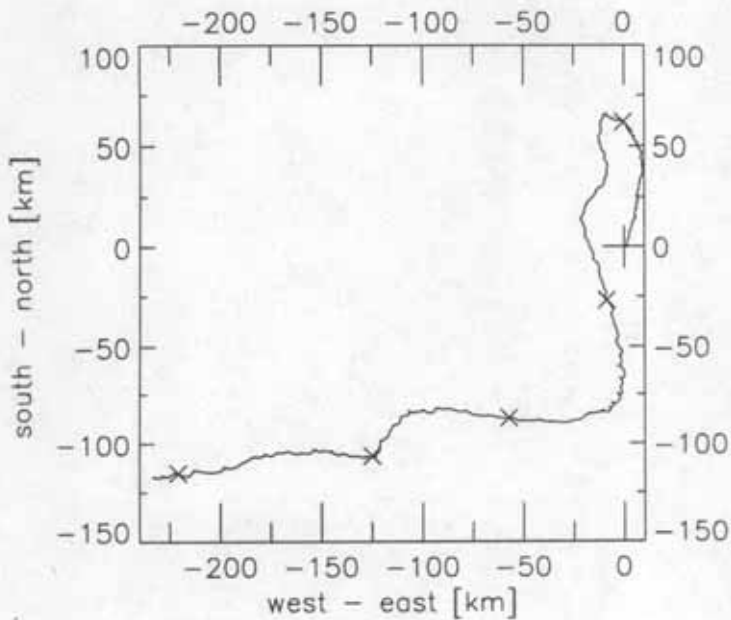
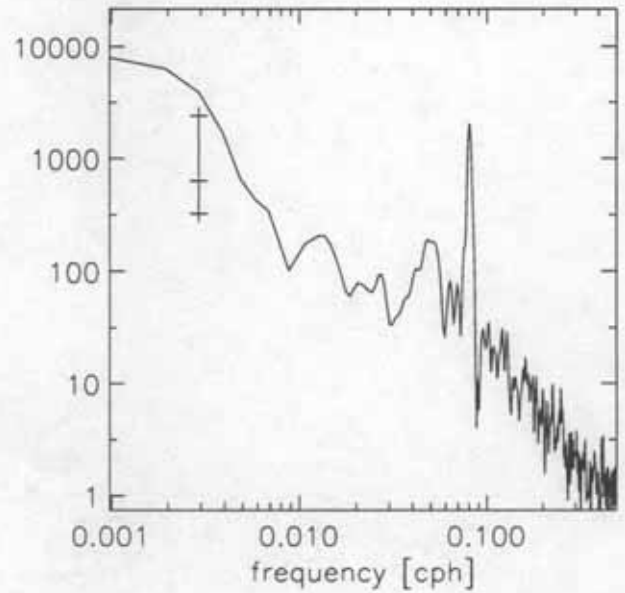
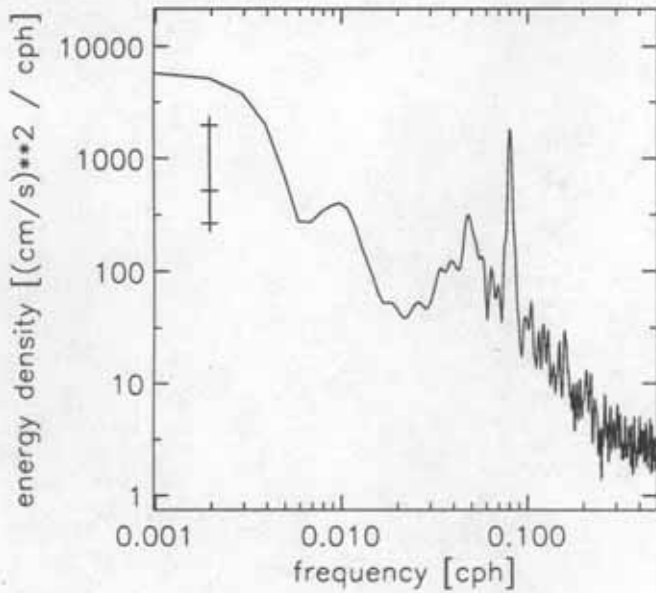


CS

record no: a92047, sampling interval = 60.0 minutes

u-component (zonal)

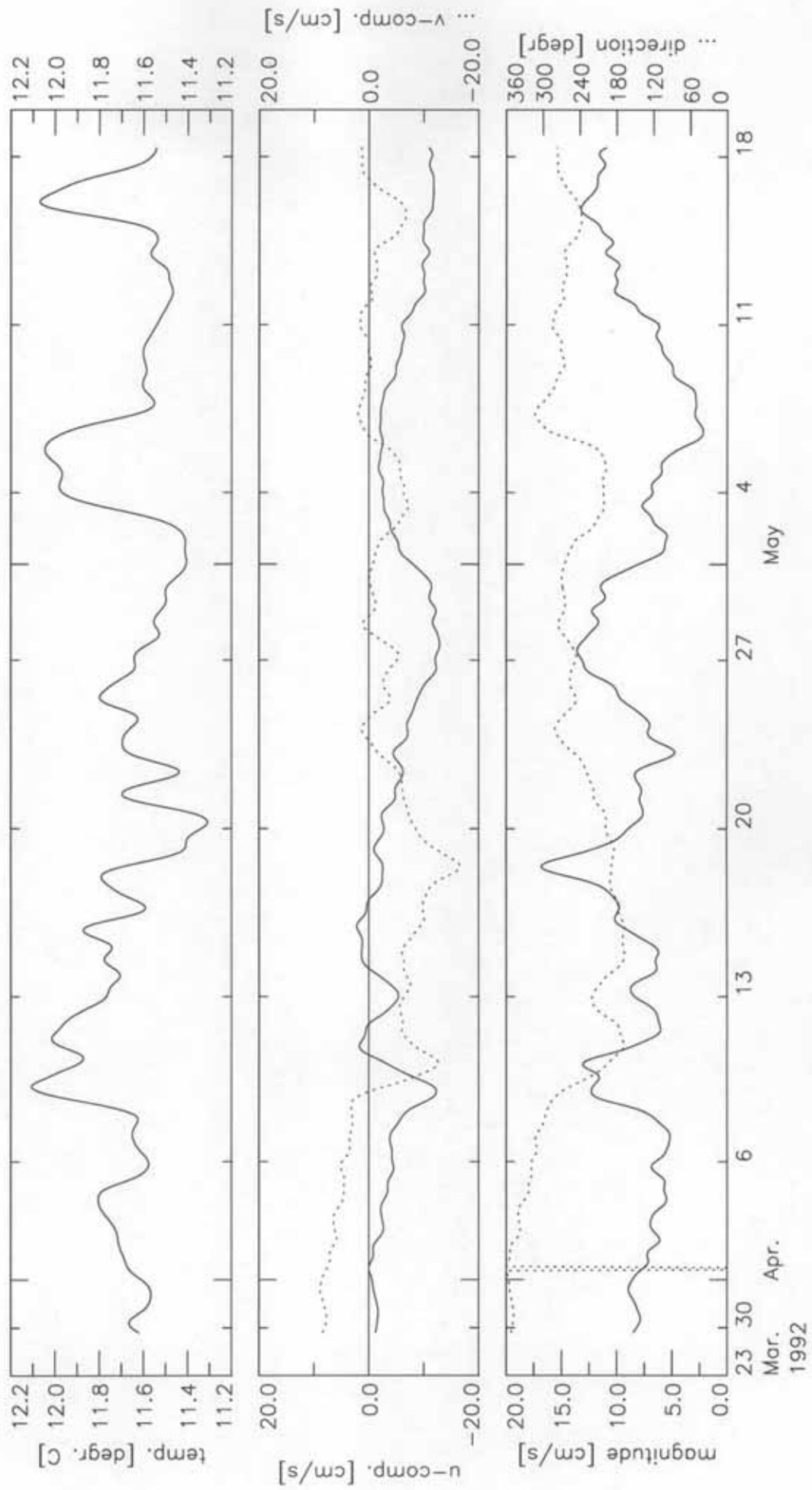
v-component (meridional)



28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)

Time marks (x) are given every 240 hours

CS, record no. = a92048, sampling depth = 337 m

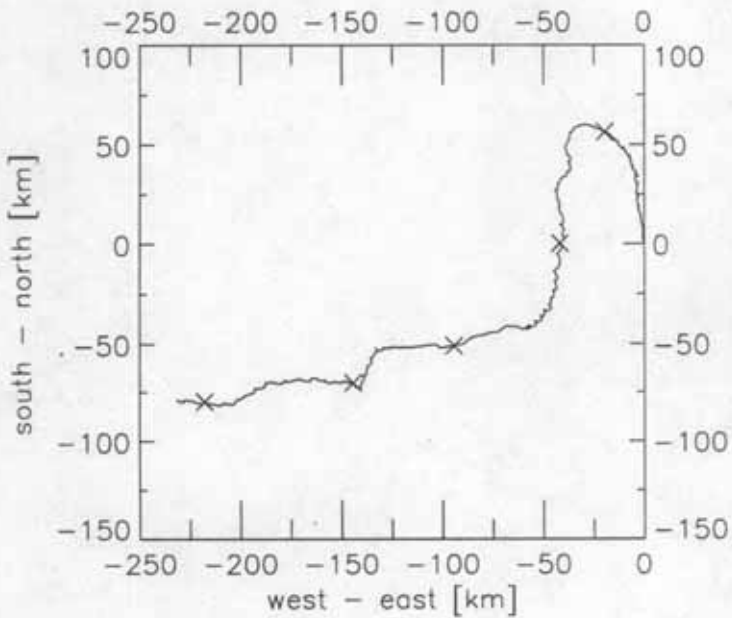
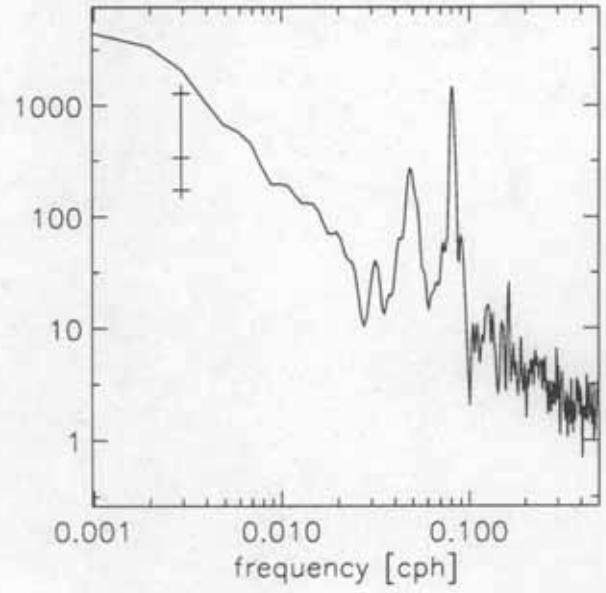
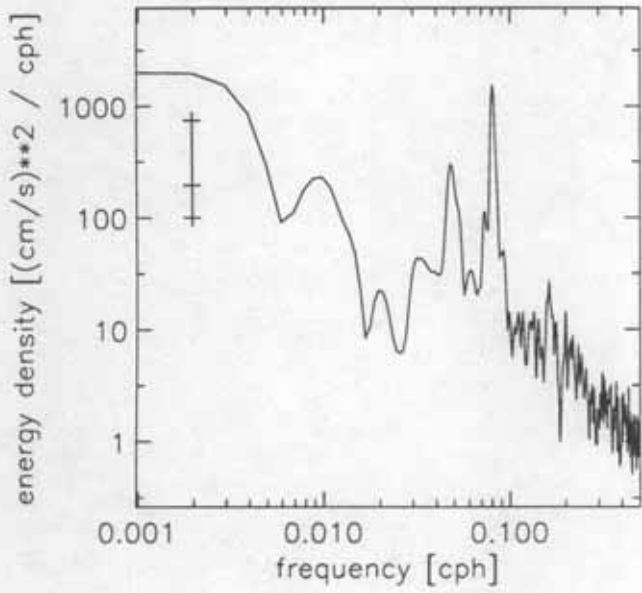


CS

record no: a92048, sampling interval = 60.0 minutes

u-component (zonal)

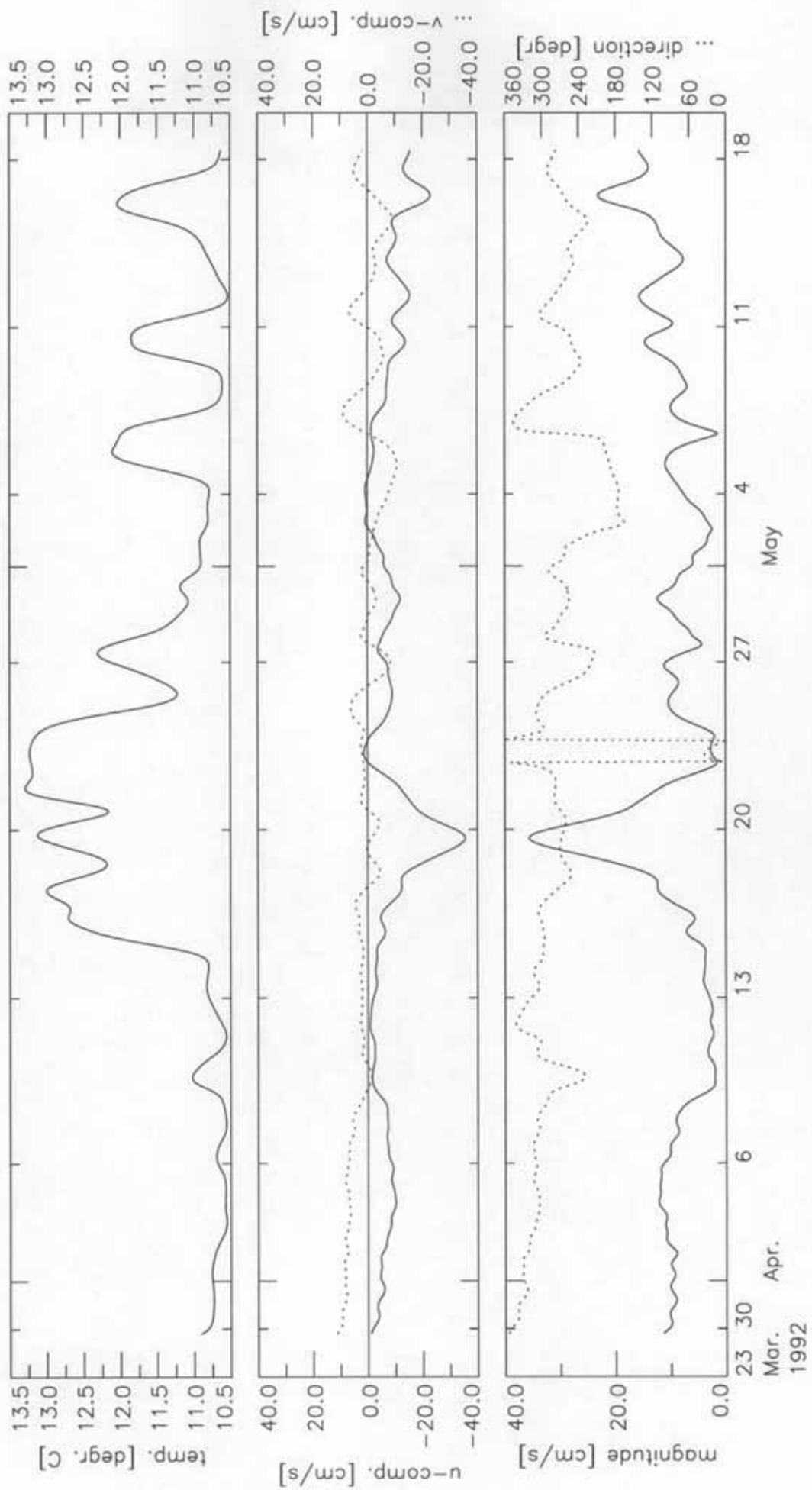
v-component (meridional)



28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)

Time marks (x) are given every 240 hours

CS, record no. = a92049, sampling depth = 538 m

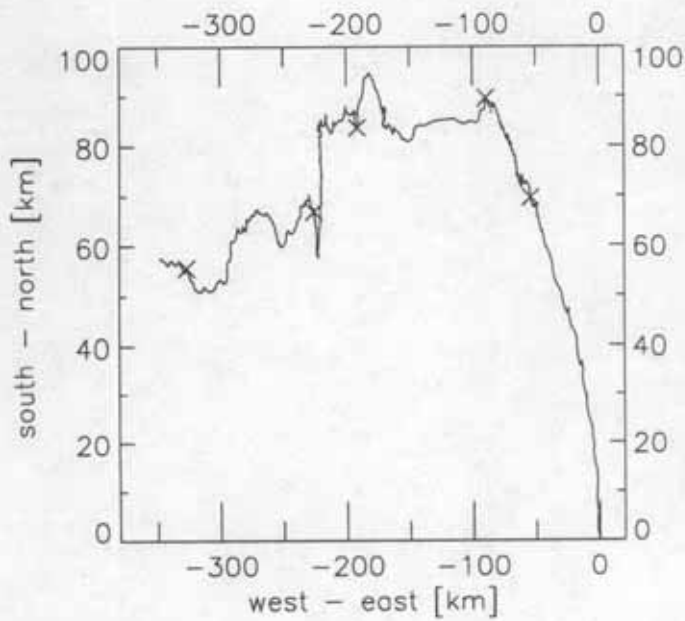
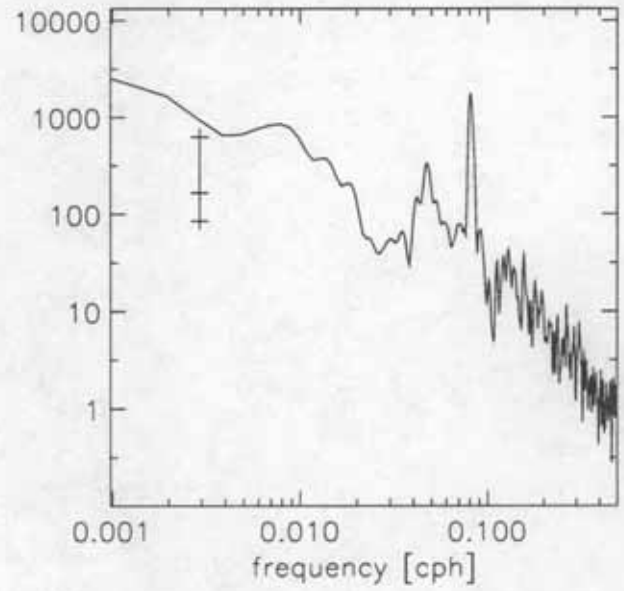
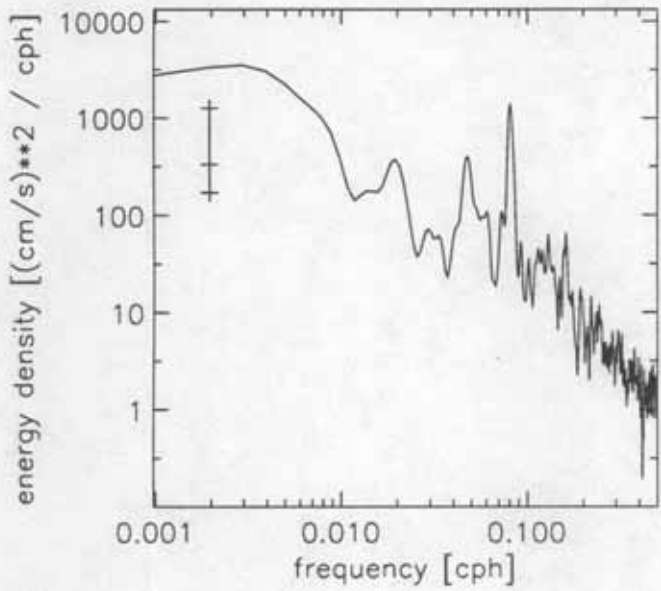


CS

record no: a92049, sampling interval = 60.0 minutes

u-component (zonal)

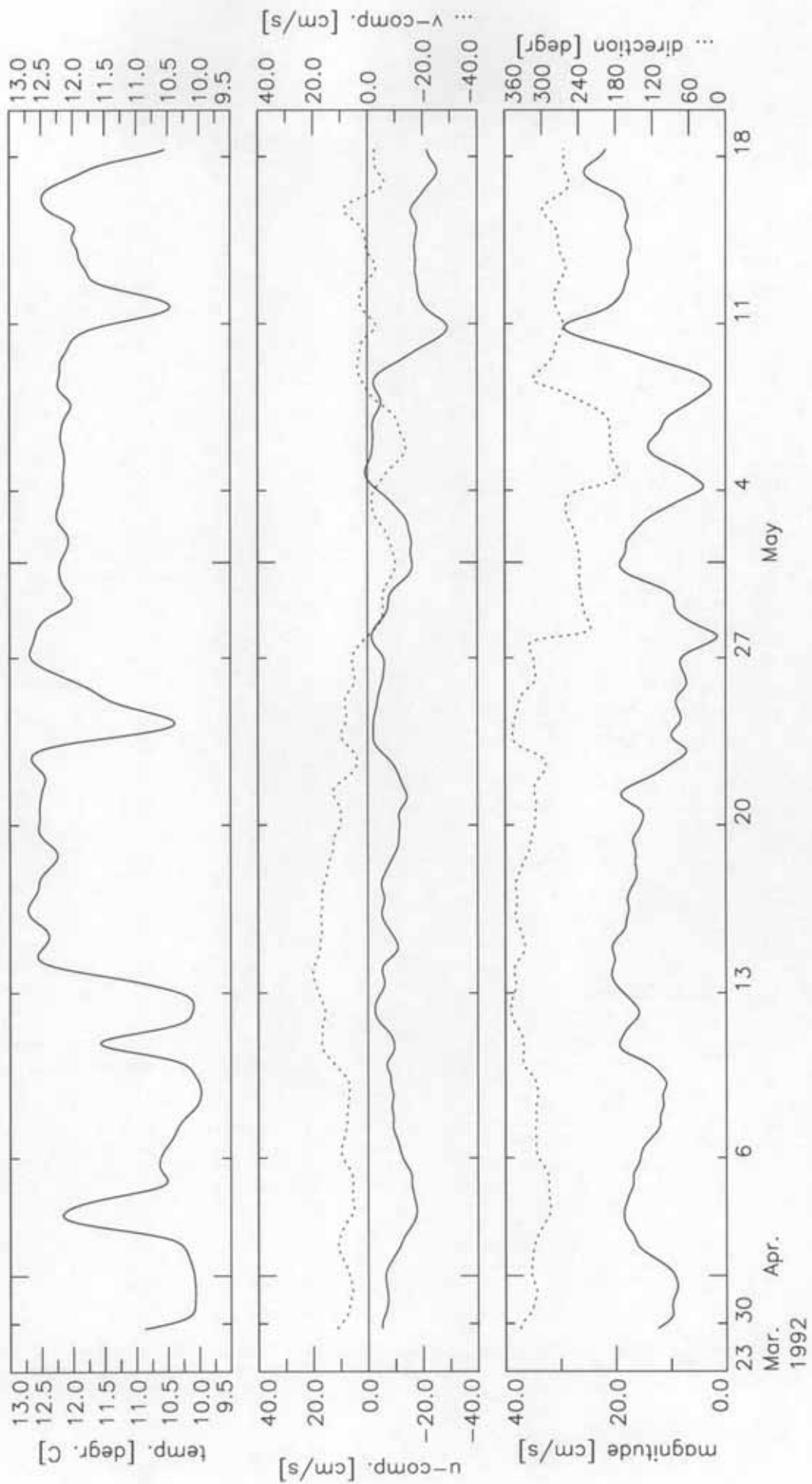
v-component (meridional)



28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)

Time marks (x) are given every 240 hours

CS, record no. = a92050, sampling depth = 753 m

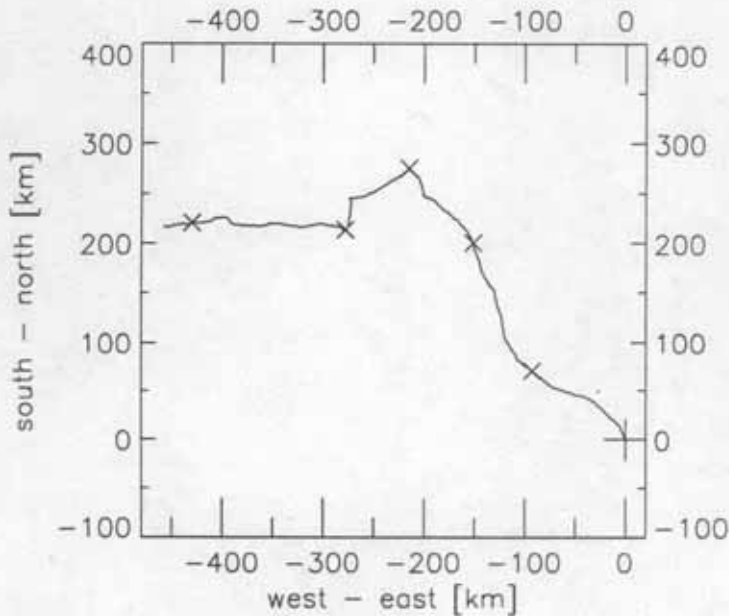
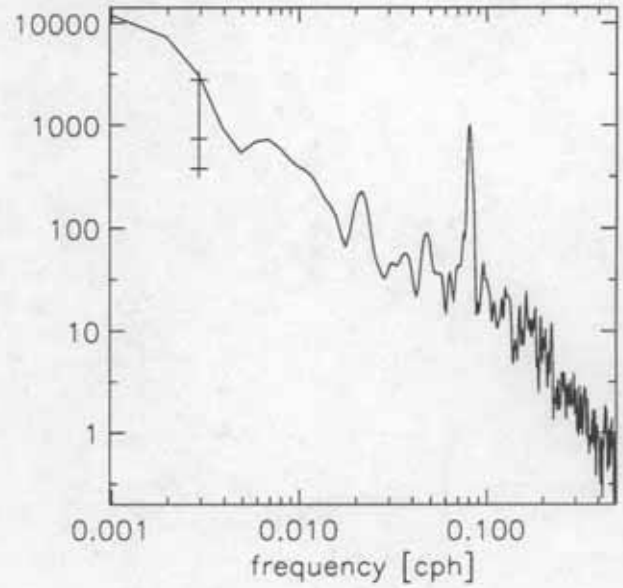
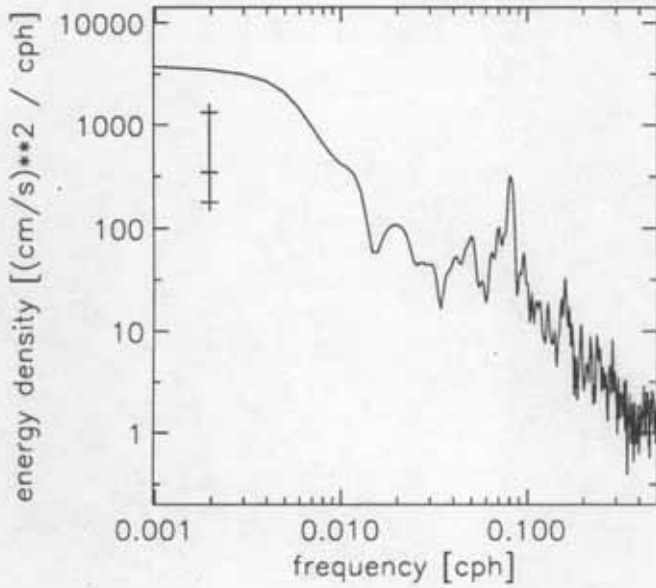


CS

record no: a92050, sampling interval = 60.0 minutes

u-component (zonal)

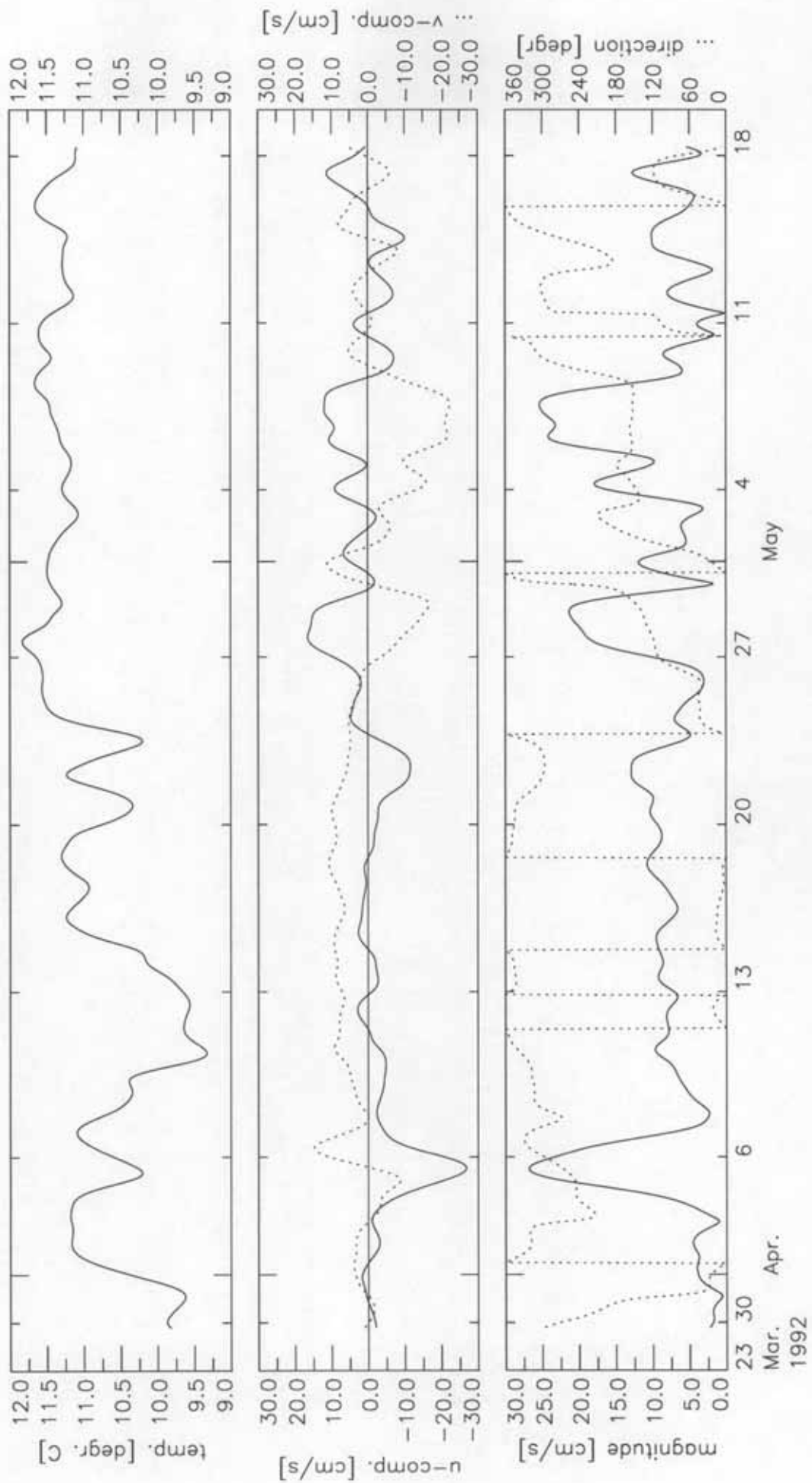
v-component (meridional)



28. 3.1992 19:00 - 19. 5.1992 8:00 (UTC)

Time marks (x) are given every 240 hours

CS, record no. = a92051, sampling depth = 1254 m

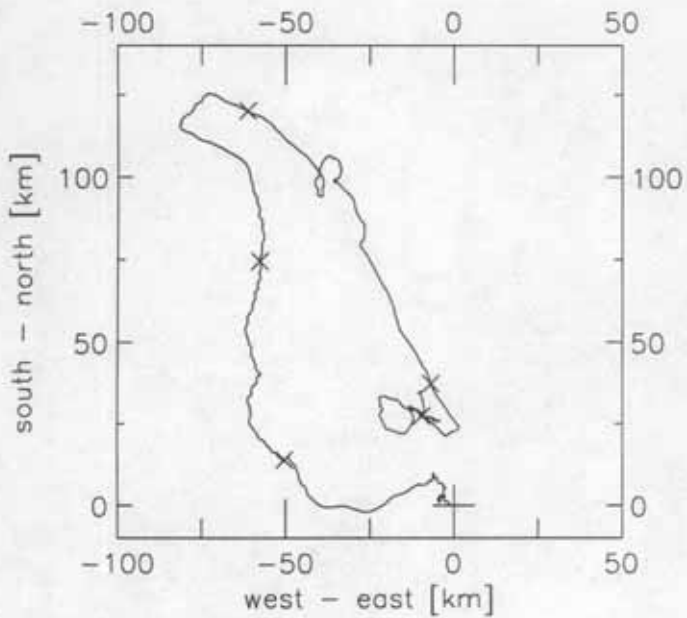
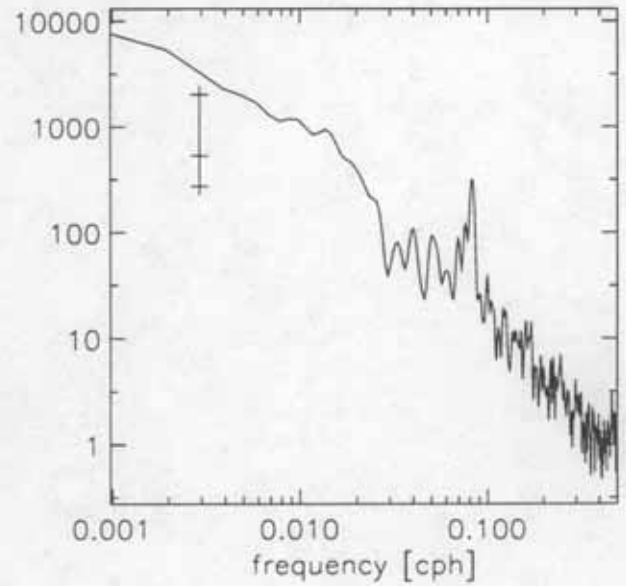
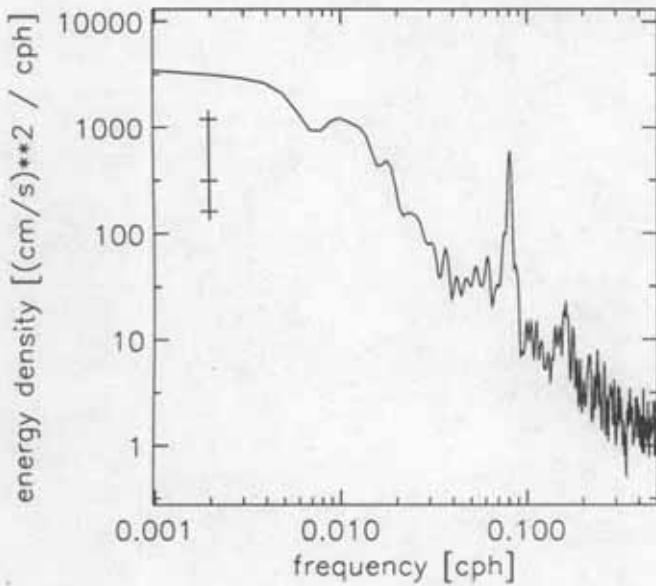


CS

record no: a92051, sampling interval = 60.0 minutes

u-component (zonal)

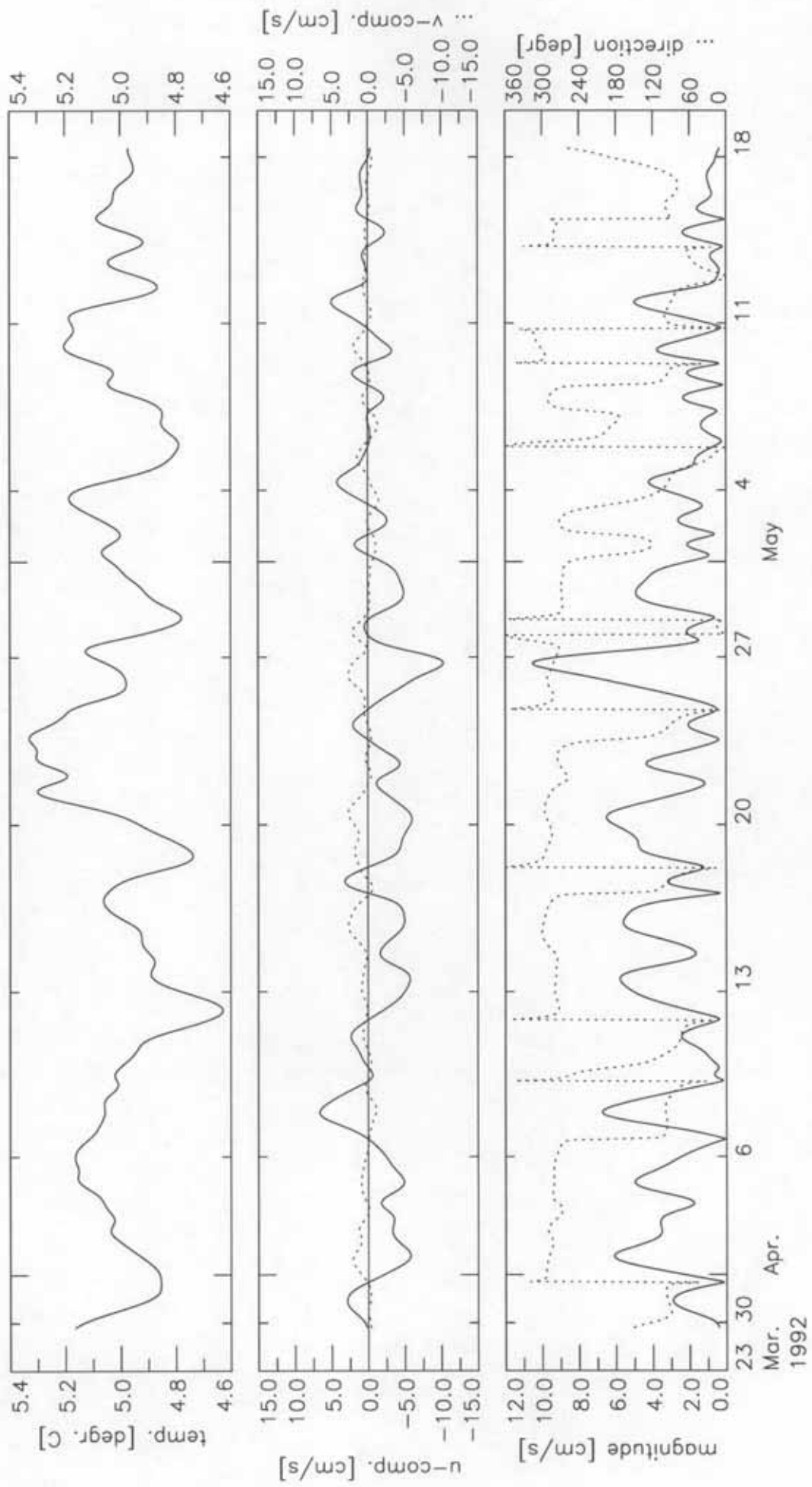
v-component (meridional)



28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)

Time marks (x) are given every 240 hours

CS, record no. = a92052, sampling depth = 1855 m

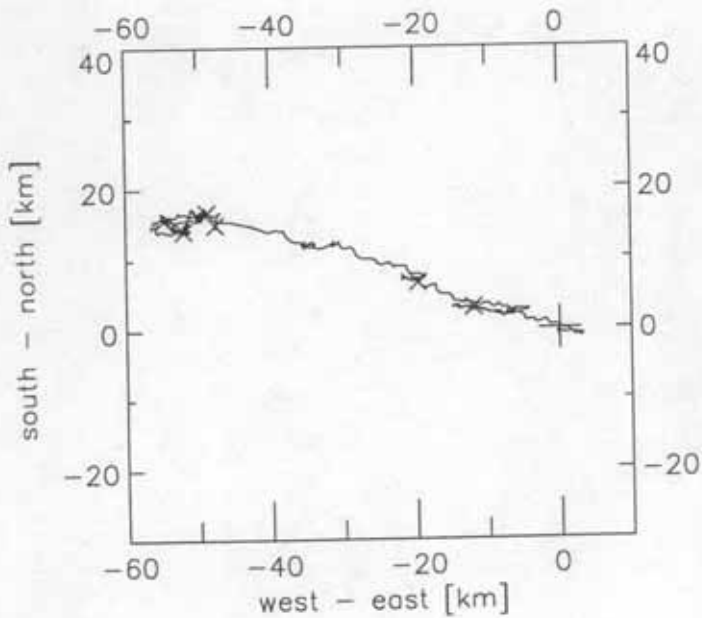
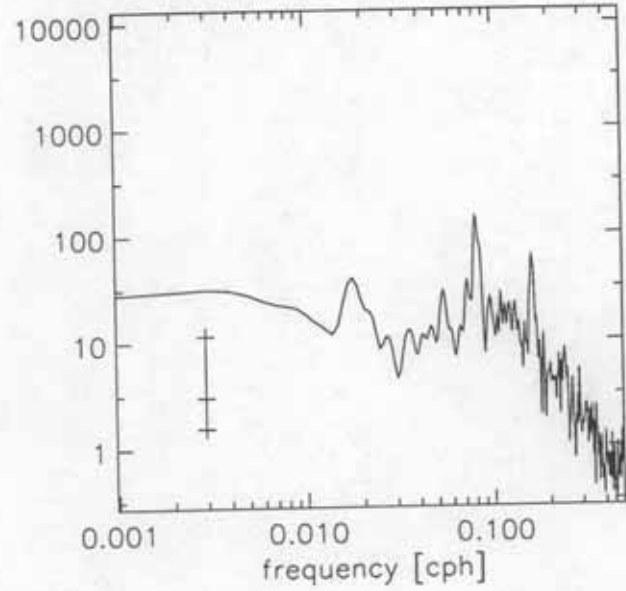
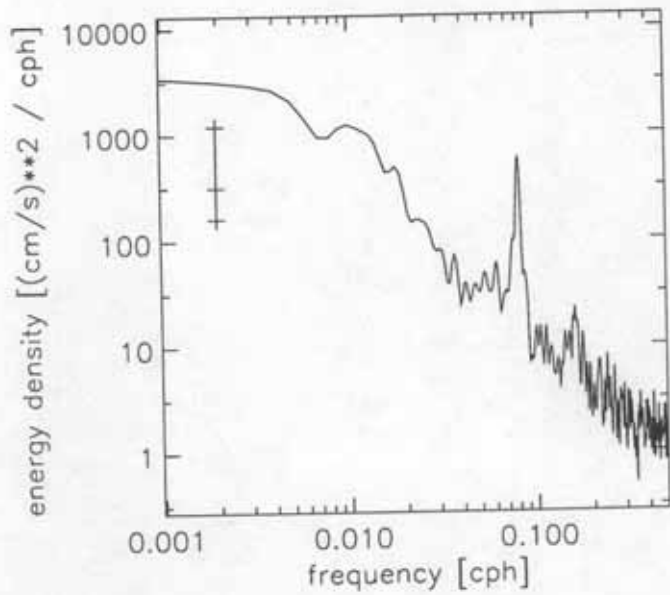


CS

record no: a92052, sampling interval = 60.0 minutes

u-component (zonal)

v-component (meridional)



28. 3.1992 19:00 - 19. 5.1992 10:00 (UTC)

Time marks (x) are given every 240 hours

AL1, AL2

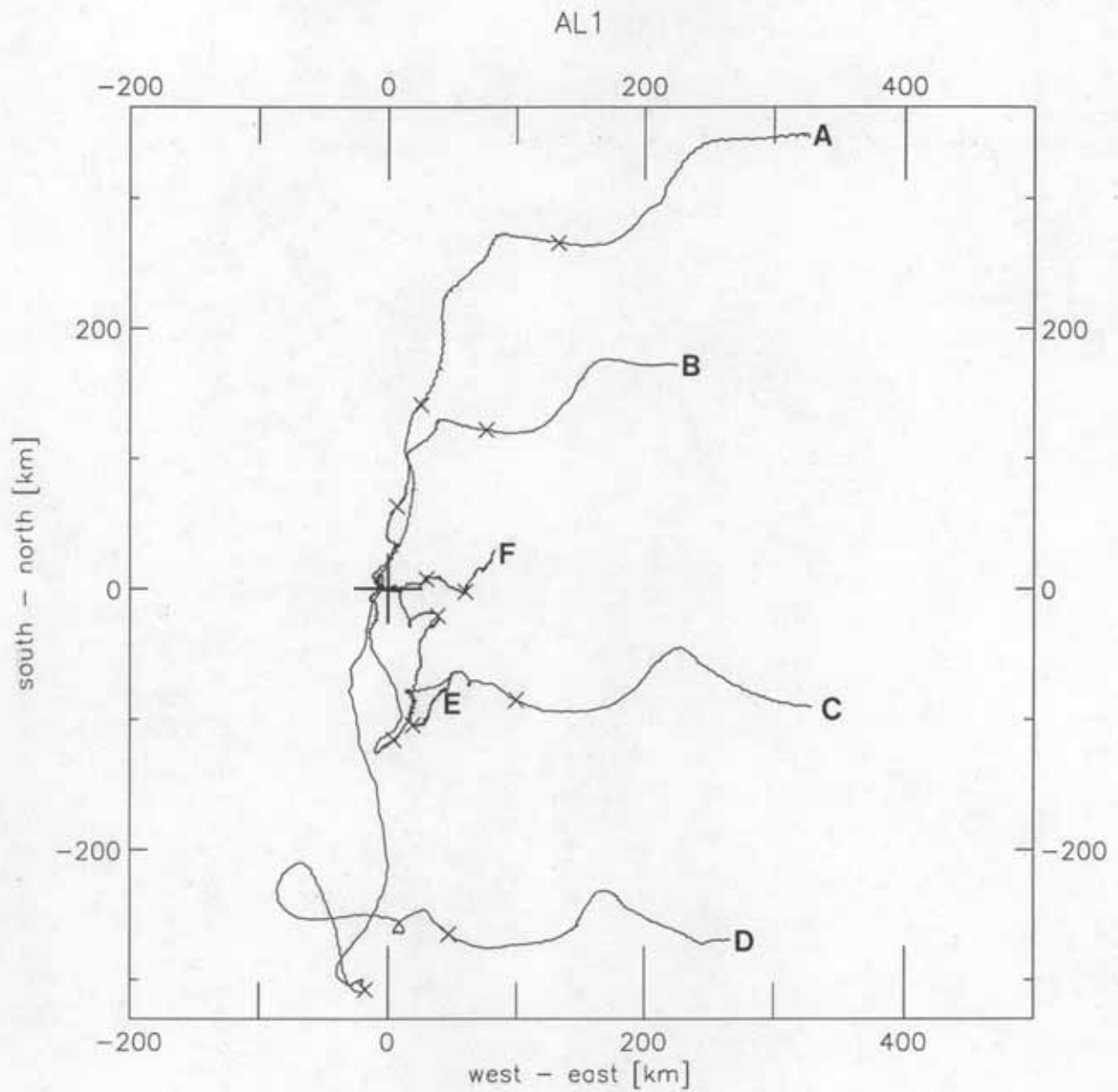
Mooring Data AL1 and AL2

current meter	sampl. depth	mab	record no.	sampling time			
-	m	m	-	UTC			
AL1: 28.10.91 - 14.1.92, 36° 14.16'N, 8° 36.12'W, si = 30'							
RCM4	8509	358	1678	92001	20.10.91	12:30	- 14.1.92 09:00
RCM4	7242	510	1526	92002	20.10.91	12:30	- 14.1.92 09:00
RCM7	9750	811	1225	92003	20.10.91	12:30	- 14.1.92 09:00
RCM8	9386	1214	822	92004	20.10.91	12:30	- 14.1.92 09:00
RCM8	10081	1715	321	92005	20.10.91	12:30	- 14.1.92 09:00
RCM8	10082	2016	20	92006	20.10.91	12:30	- 14.1.92 09:00
AL2: 14.1.92 - 19.5.92, 36° 14.20'N, 8° 35.10'W, si = 30'							
RCM5	6786	309	1689	92041	14.1.92	15:00	- 19.5.92 04:30
RCM5	6703	471	1527	92042	14.1.92	15:00	- 19.5.92 05:00
RCM5	6701	773	1255	92043	14.1.92	15:00	- 19.5.92 05:00
RCM5	6700	1176	822	92044	14.1.92	15:00	- 19.5.92 05:30
RCM4	6129	1677	321	92045	14.1.92	15:00	- 19.5.92 05:30
RCM5	6119	1978	20	92046	14.1.92	15:00	- 27.3.92 16:00

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

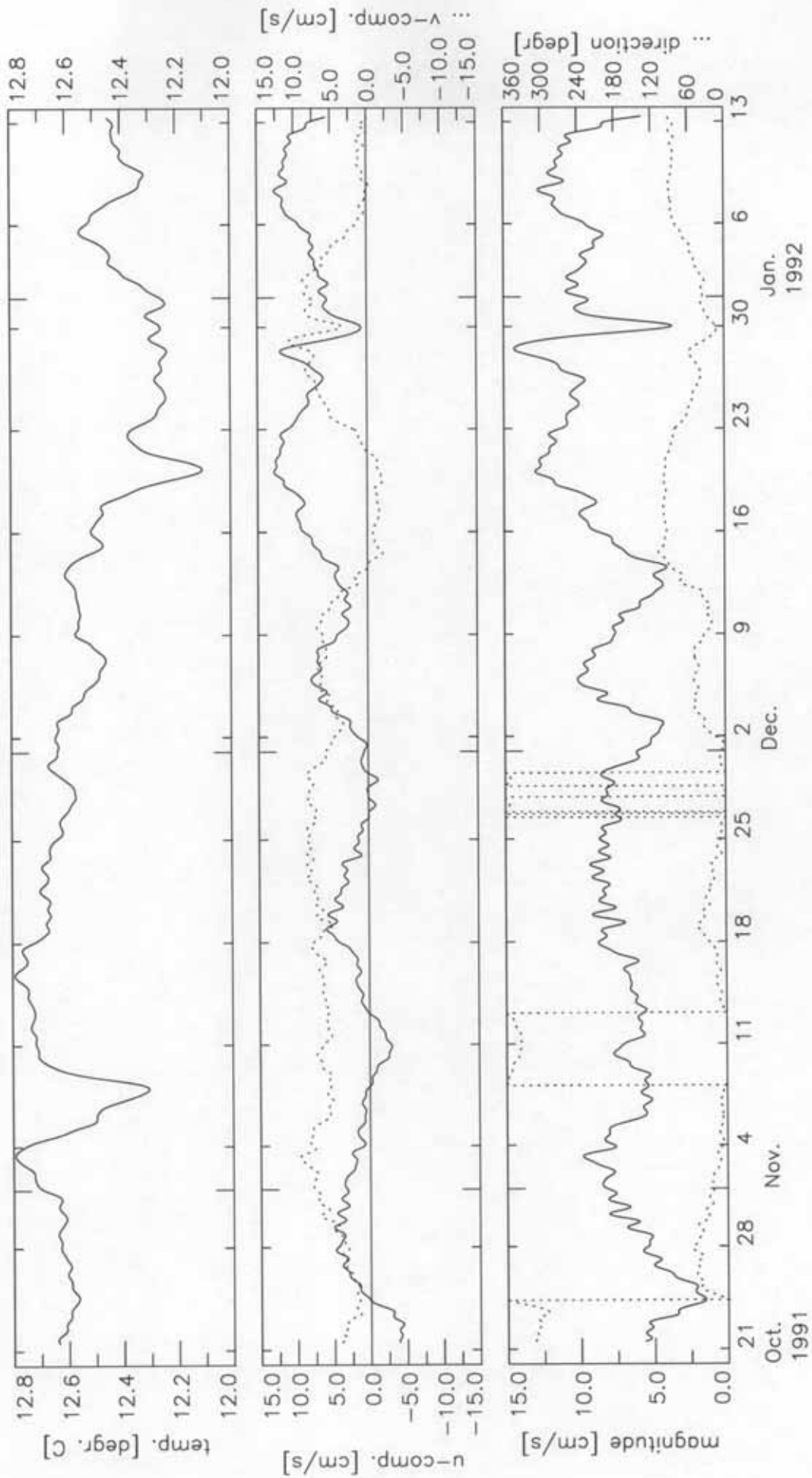
Id	sampl. depth	rec. length	\bar{u} cm/s	\bar{v} cm/s	mag V	$\frac{\overline{u'u'}}{V'V'}$ cm ² /s ²	$\overline{u'v'}$ cm ² /s ²	k_E k_M cm ² /s ²	T_x T_y days	L_x L_y km	K_x K_y cm ² /sx10 ⁶	dir
AL1:	358	84	4.5±0.13	4.5±0.13	9.3	17.3	-6.5	13.4	9.7	34.9	14.5	43
	510	84	4.8±0.09	3.1±0.10	6.5	9.5	-2.6	21.5	3.9	10.3	3.2	53
	811	84	2.4±0.07	4.5±0.18	6.6	11.6	-3.5	8.3	9.9	29.1	9.9	105
	1214	84	-1.2±0.17	3.5±0.26	3.9	4.9	2.4	7.6	3.5	6.6	1.5	136
	1750	84	-3.7±0.35	0.7±0.05	9.6	33.3	2.3	32.4	7.7	38.6	22.3	144
	2016	84	-0.9±0.09	1.1±0.04	4.6	31.6	-0.1	10.7	3.8	18.3	10.3	72
AL2:	309	124	2.3±0.14	2.3±0.14	13.9	70.1	-1.7	98.6	5.7	41.2	34.5	28
	471	124	4.3±0.10	1.4±0.12	5.1	127.1	2.4	13.3	4.4	43.3	48.9	31
	773	124	1.7±0.12	3.6±0.15	7.4	3.0	-1.2	5.7	2.9	4.3	7.5	25
	1176	124	-0.1±0.03	0.2±0.02	1.1	8.3	-0.3	0.6	4.7	11.8	3.4	335
	1677	124	-0.2±0.04	1.0±0.06	0.2	1.0	-1.3	<0.1	1.7	1.7	0.2	346
	1978	71	0.7±0.03	1.8±0.08	4.4	5.7	0.6	<0.1	2.4	3.2	0.5	22
					1.0	0.6		2.9	4.5	9.3	2.2	
					3.9	0.6		1.9	1.1	0.7	<0.1	
					1.9	5.2		1.9	2.0	4.0	0.9	



Time marks (x) are given every 720 hours

A	a92001; sd= 358 m; 20.10.1991	12:30 - 14. 1.1992	9:00 (UTC)
B	a92002; sd= 510 m; 20.10.1991	12:30 - 14. 1.1992	9:00 (UTC)
C	a92003; sd= 811 m; 20.10.1991	12:30 - 14. 1.1992	9:00 (UTC)
D	a92004; sd= 1214 m; 20.10.1991	12:30 - 14. 1.1992	9:00 (UTC)
E	a92005; sd= 1750 m; 20.10.1991	12:30 - 14. 1.1992	9:00 (UTC)
F	a92006; sd= 2016 m; 20.10.1991	12:30 - 14. 1.1992	9:00 (UTC)

AL1, record no. = a92001, sampling depth = 358 m

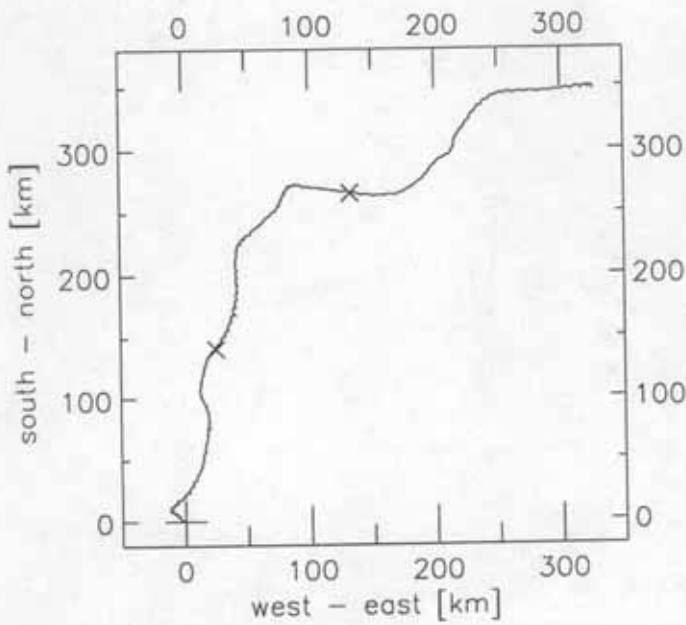
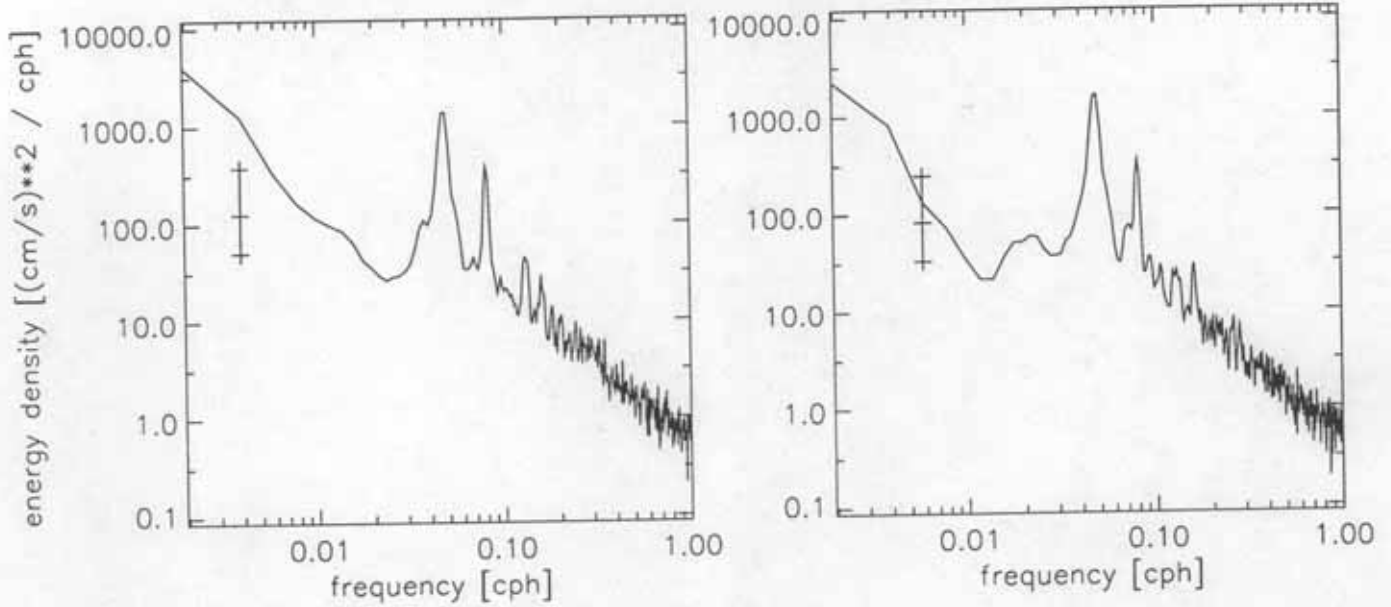


AL1

record no: a92001, sampling interval = 30.0 minutes

u-component (zonal)

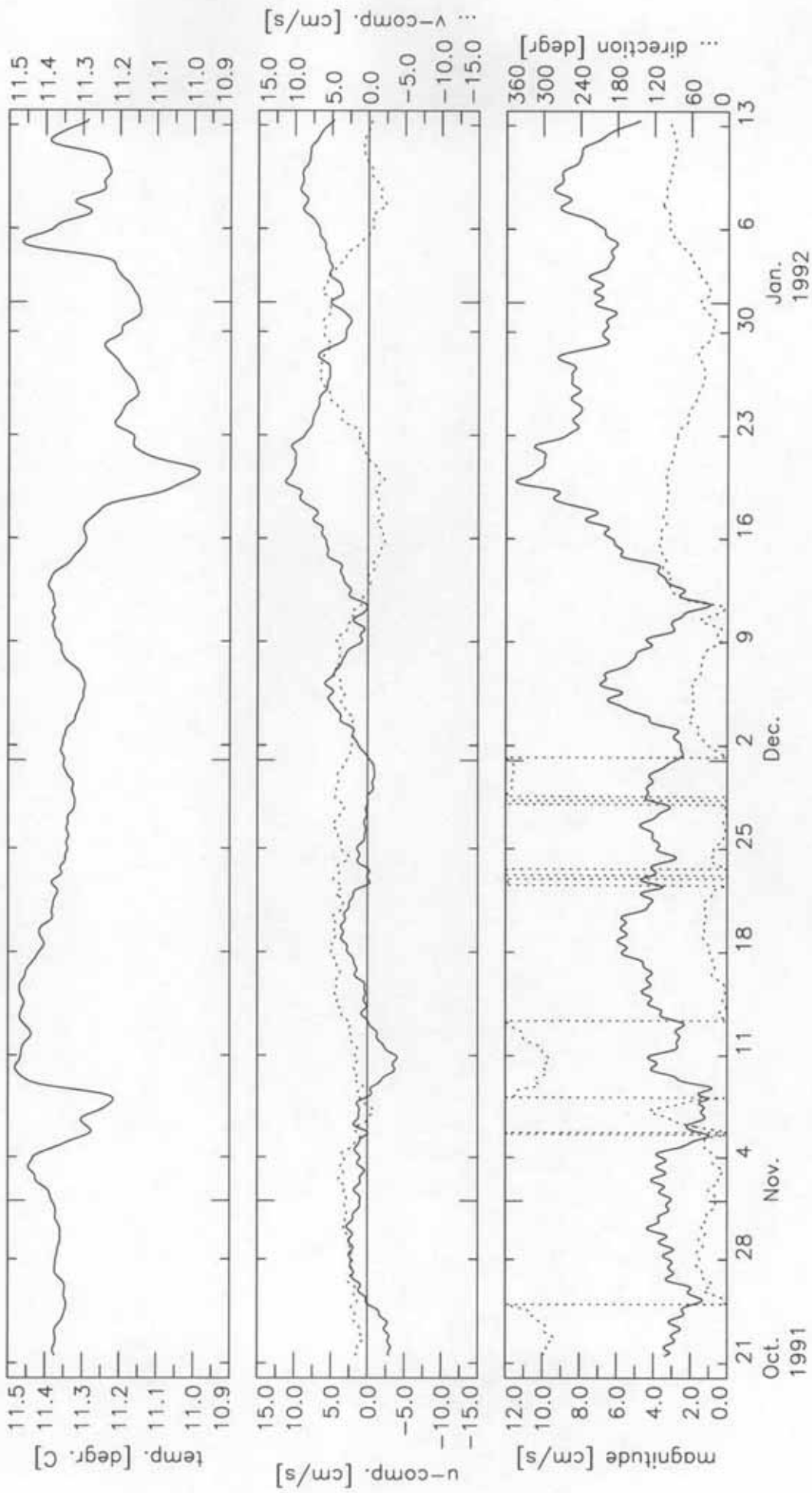
v-component (meridional)



20.10.1991 12:30 - 14. 1.1992 9:00 (UTC)

Time marks (x) are given every 720 hours

AL1, record no. = a92002, sampling depth = 510 m

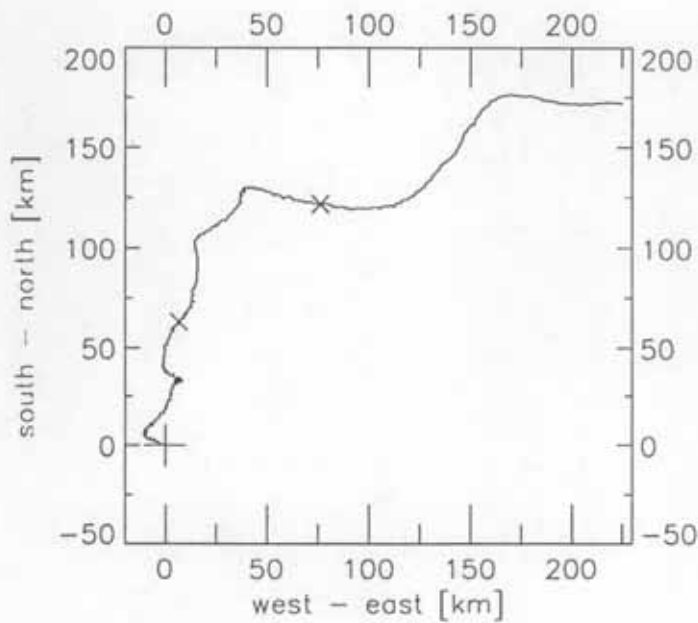
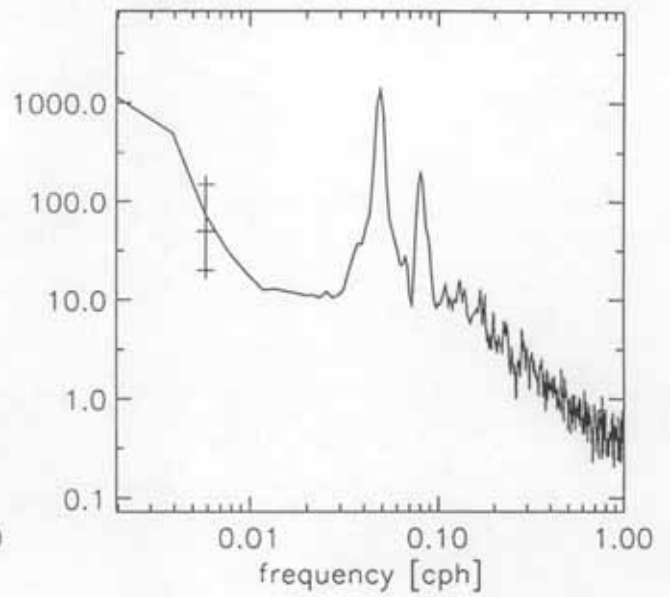
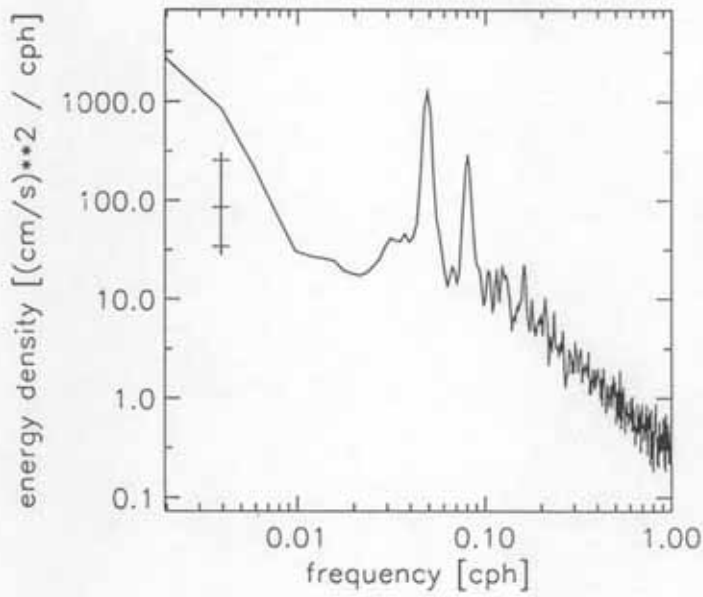


AL1

record no: a92002, sampling interval = 30.0 minutes

u-component (zonal)

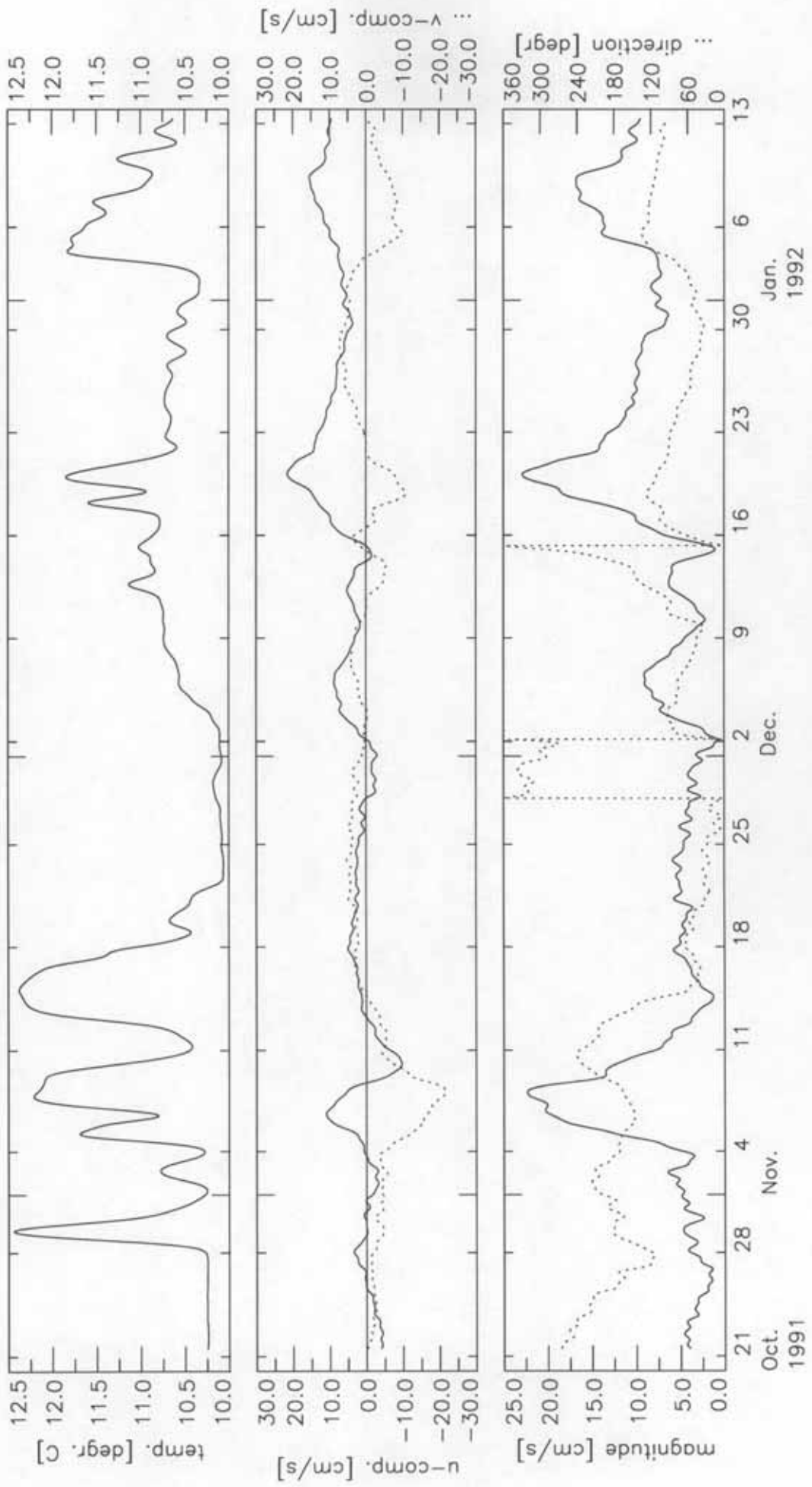
v-component (meridional)



20.10.1991 12:30 - 14. 1.1992 9:00 (UTC)

Time marks (x) are given every 720 hours

AL1, record no. = a92003, sampling depth = 811 m

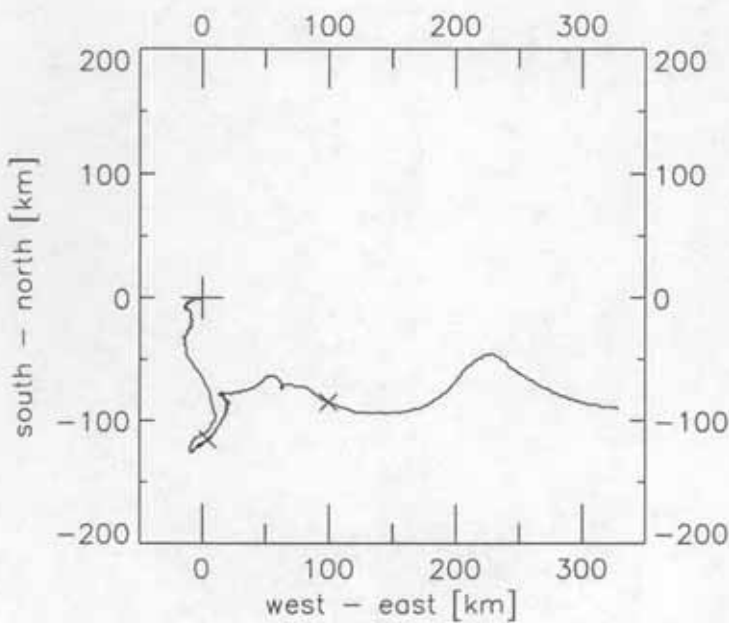
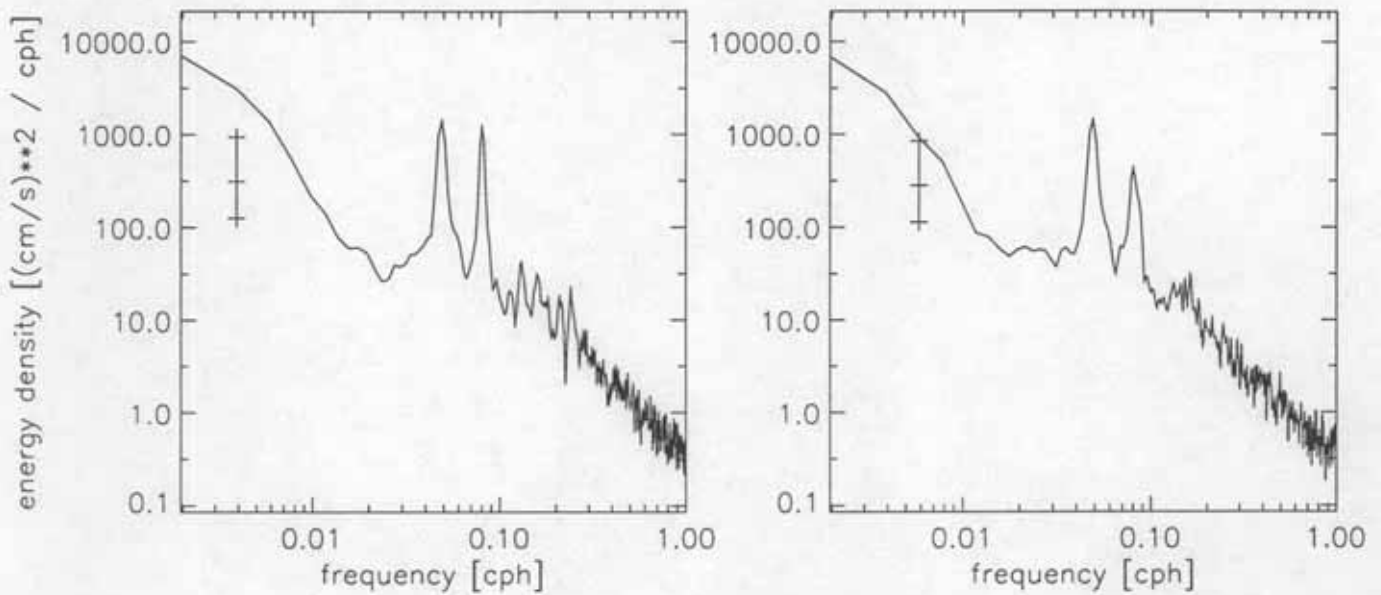


AL1

record no: a92003, sampling interval = 30.0 minutes

u-component (zonal)

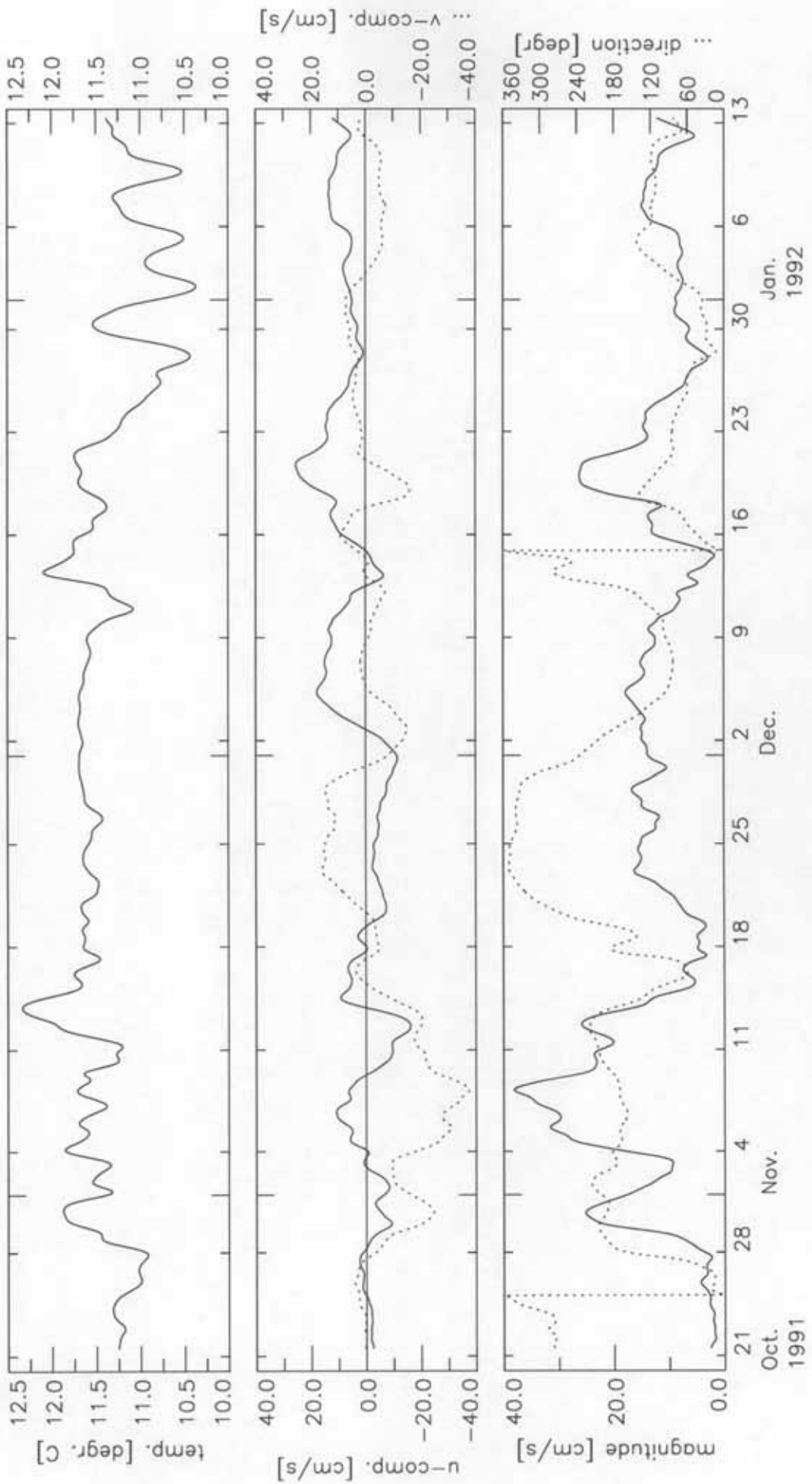
v-component (meridional)



20.10.1991 12:30 - 14. 1.1992 9:00 (UTC)

Time marks (x) are given every 720 hours

AL1, record no. = a92004, sampling depth = 1214 m

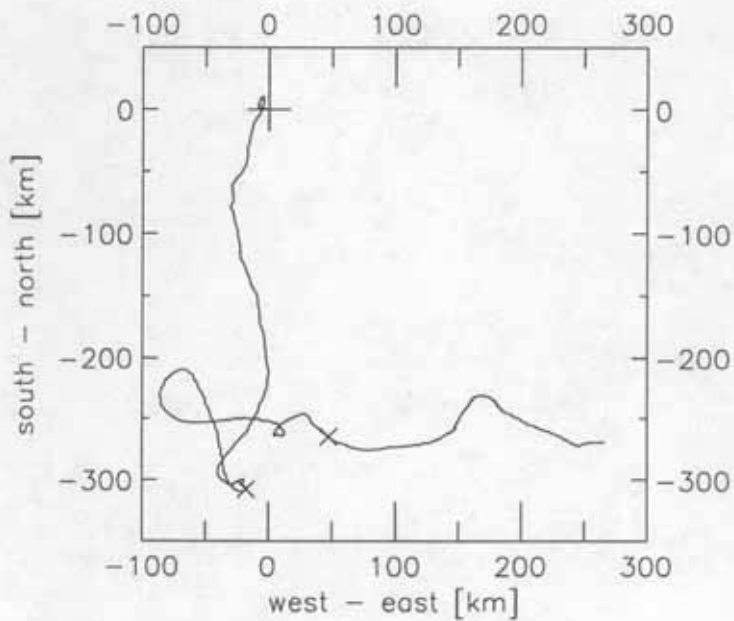
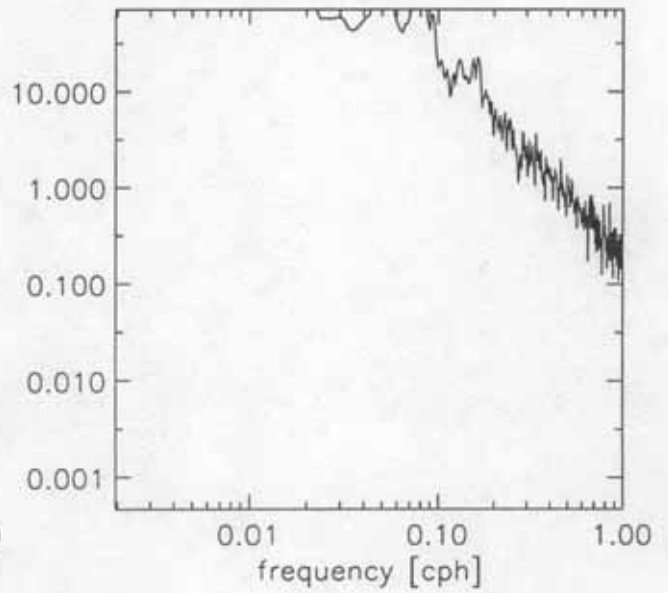
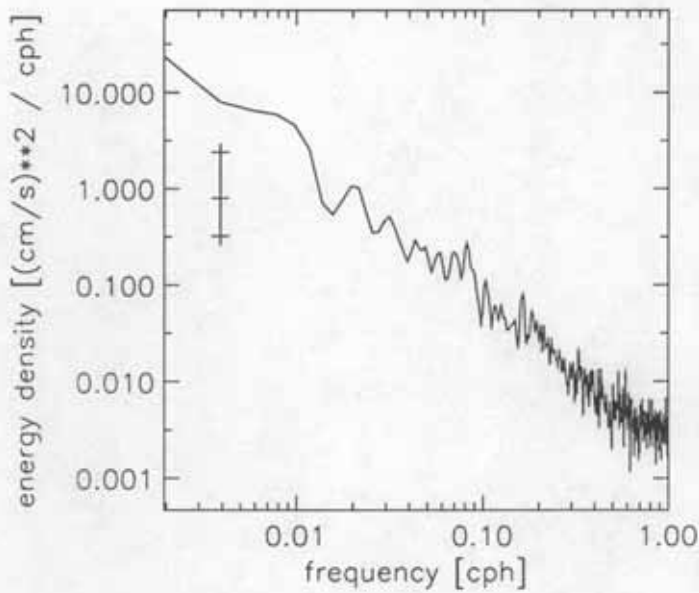


AL1

record no: a92004, sampling interval = 30.0 minutes

u-component (zonal)

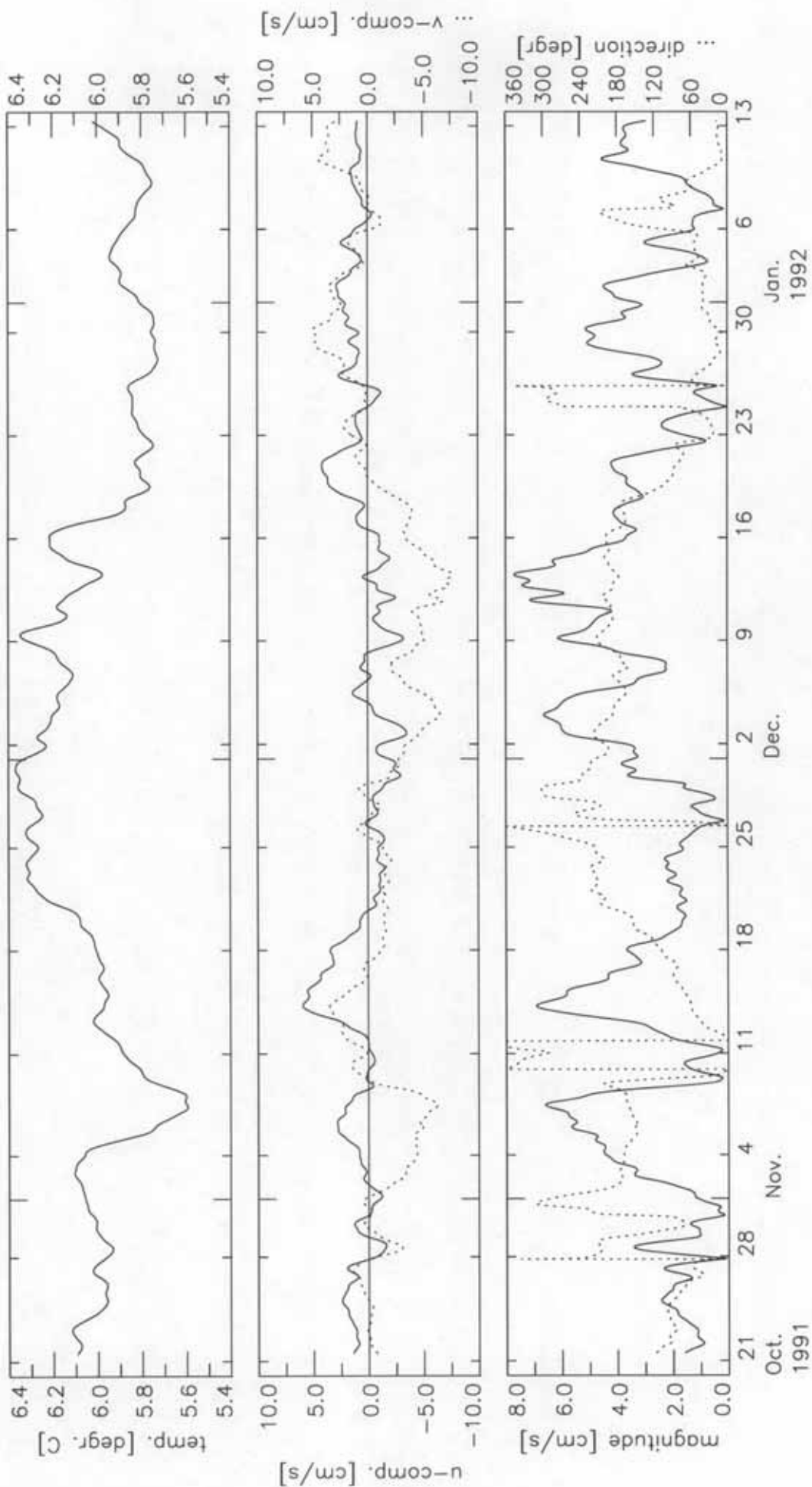
v-component (meridional)



20.10.1991 12:30 - 14. 1.1992 9:00 (UTC)

Time marks (x) are given every 720 hours

AL1, record no. = a92005, sampling depth = 1750 m

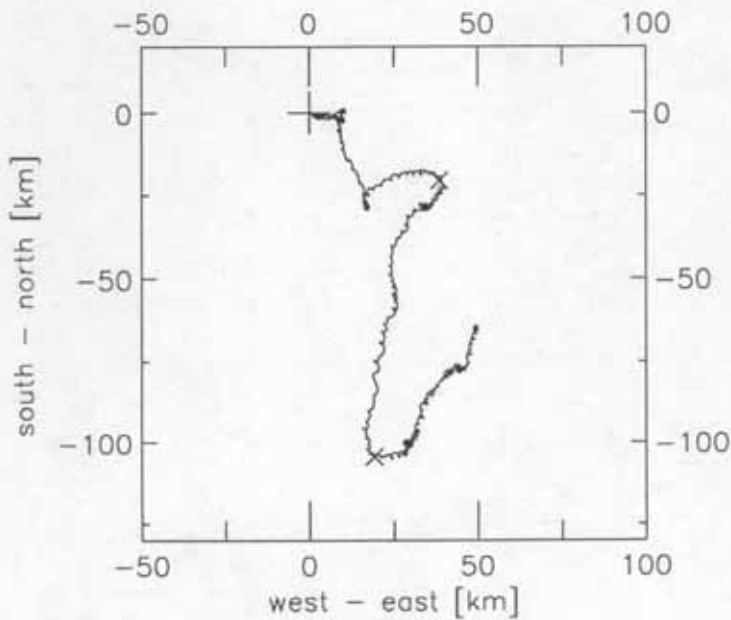
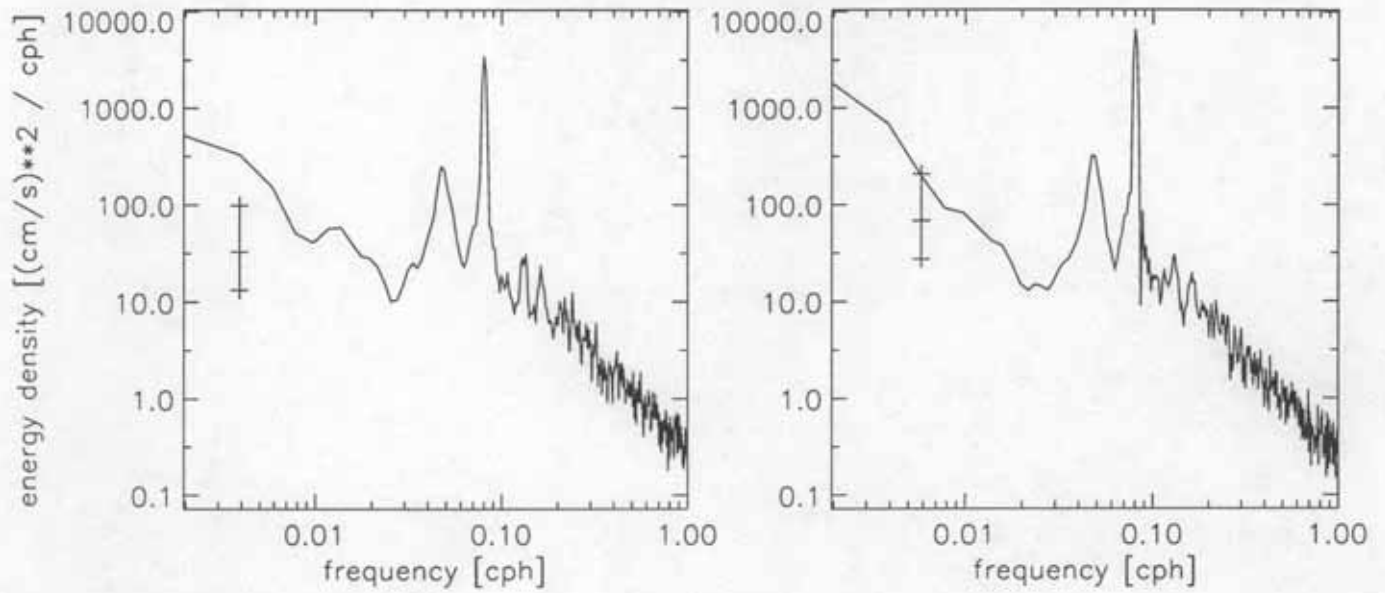


AL1

record no: a92005, sampling interval = 30.0 minutes

u-component (zonal)

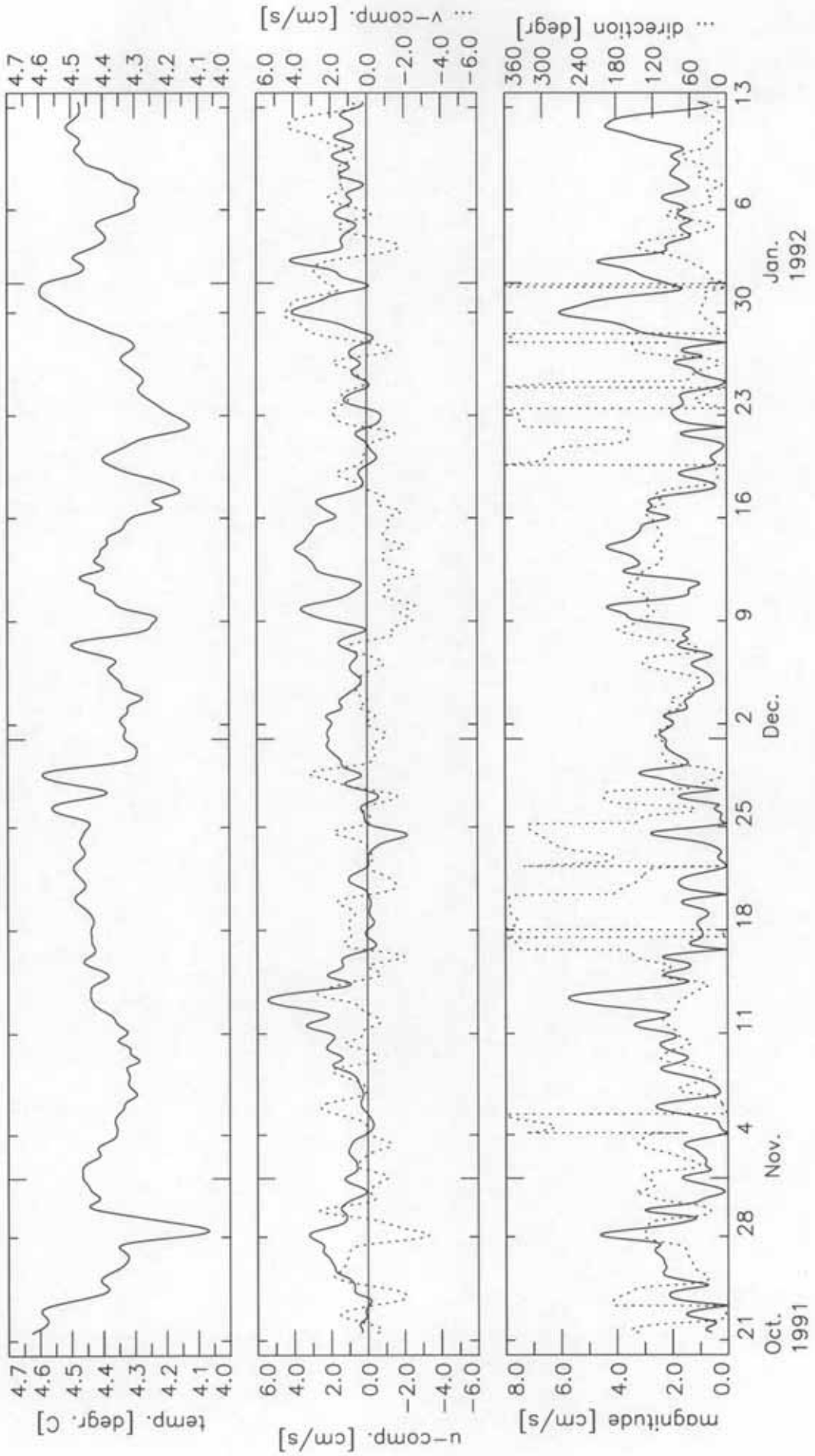
v-component (meridional)



20.10.1991 12:30 - 14. 1.1992 9:00 (UTC)

Time marks (x) are given every 720 hours

AL1, record no. = a92006, sampling depth = 2016 m

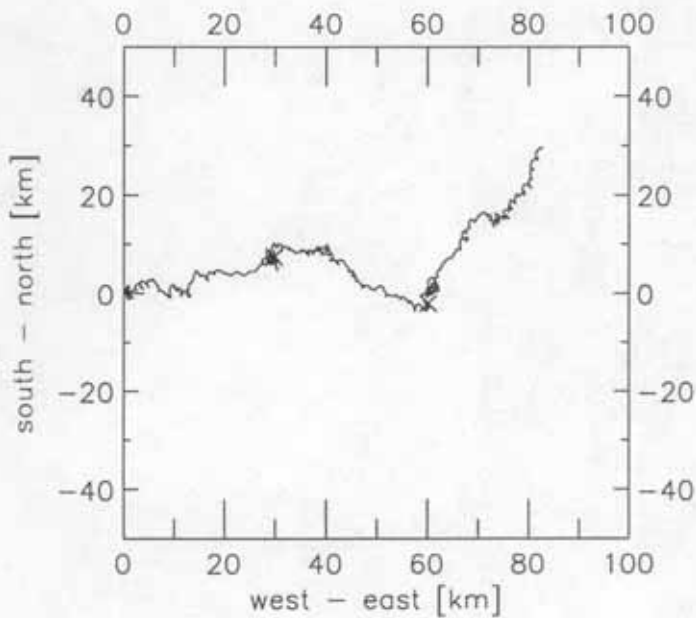
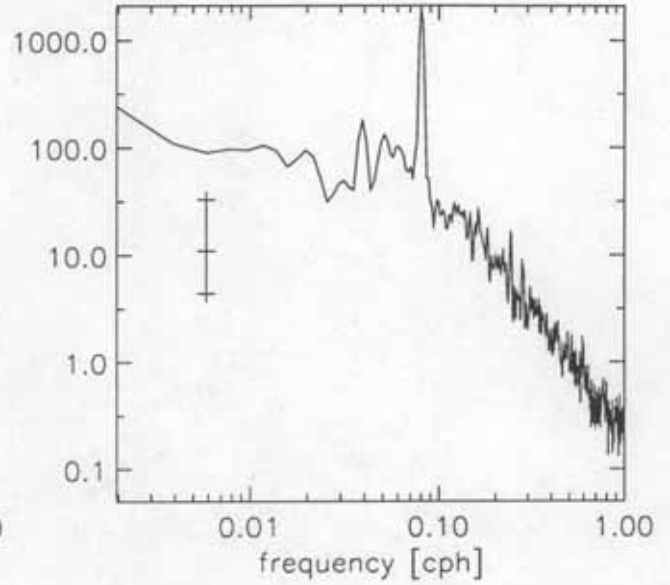
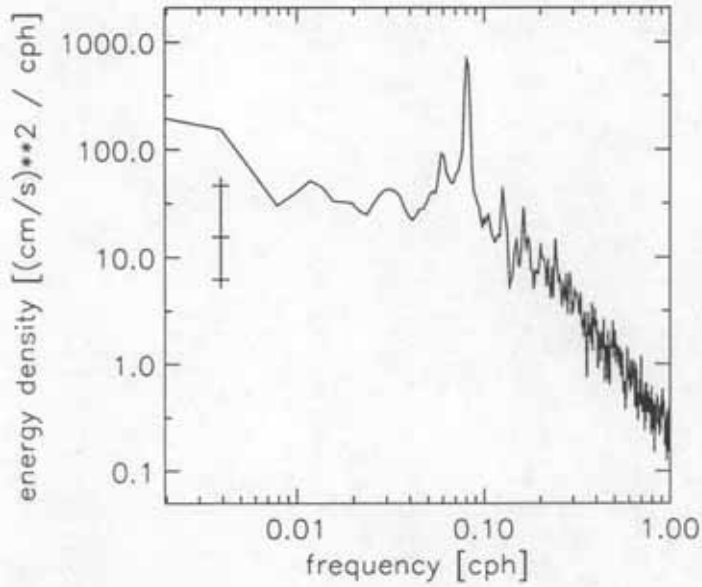


AL1

record no: a92006, sampling interval = 30.0 minutes

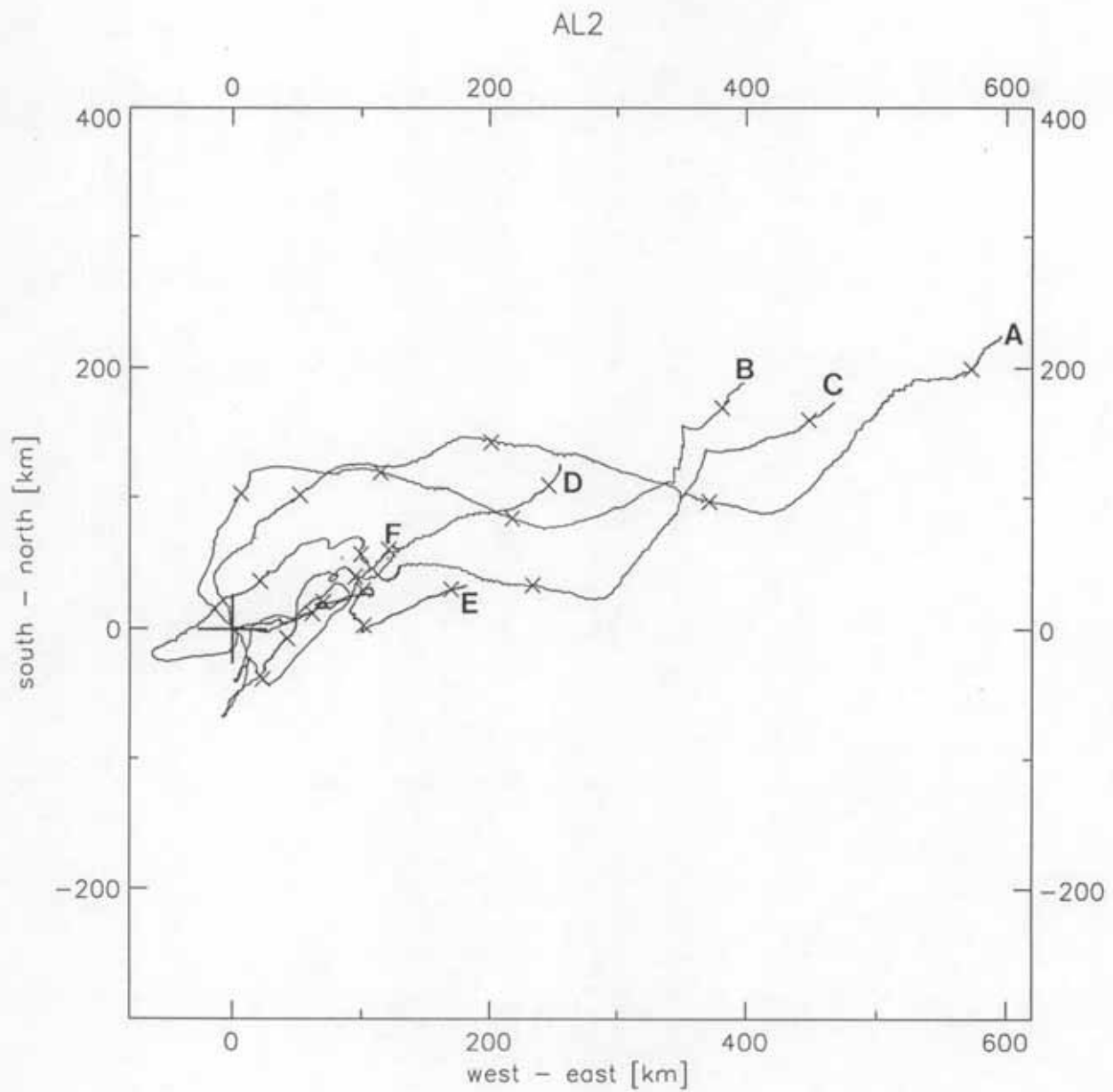
u-component (zonal)

v-component (meridional)



20.10.1991 12:30 - 14. 1.1992 9:00 (UTC)

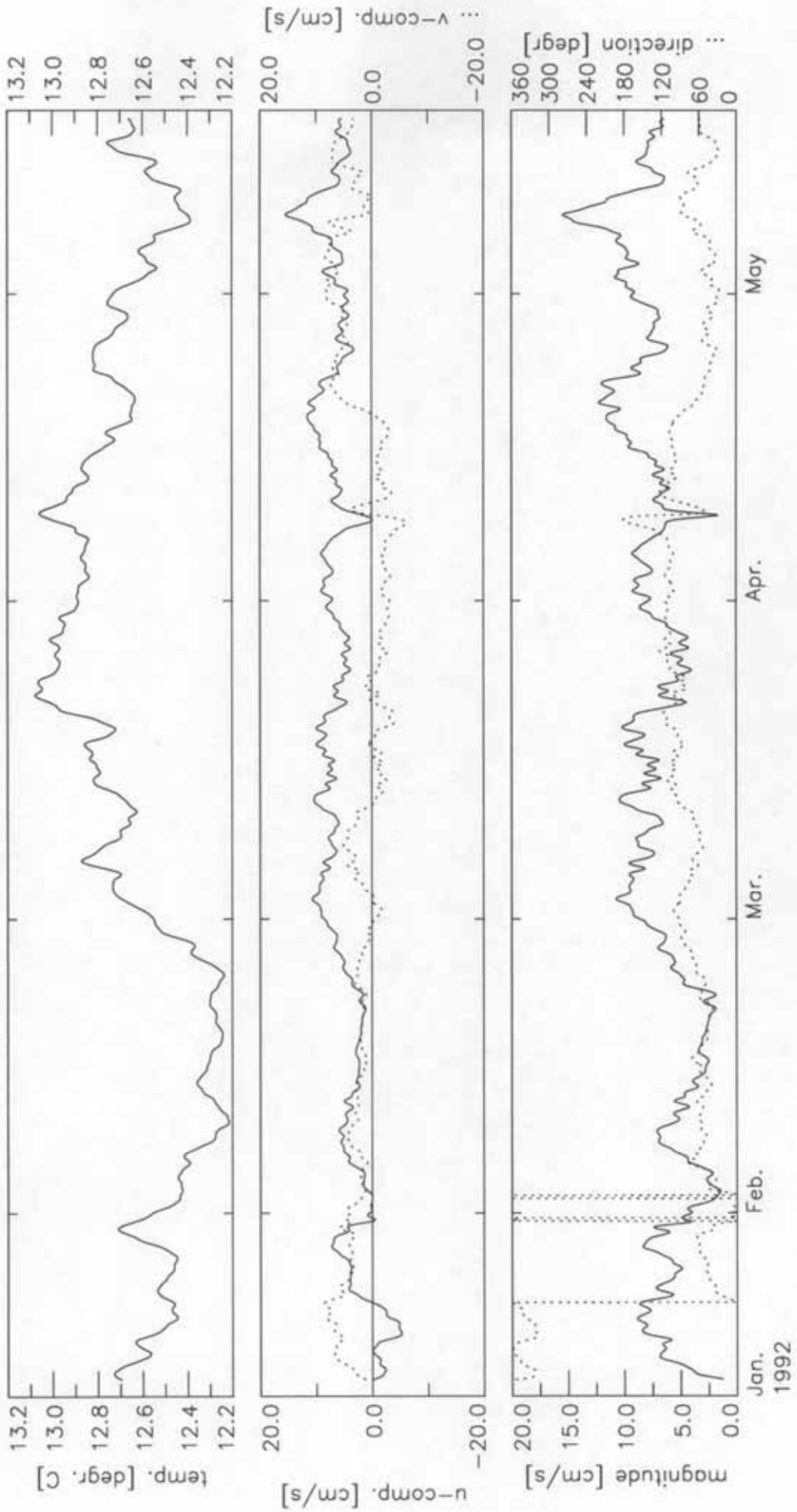
Time marks (x) are given every 720 hours



Time marks (x) are given every 720 hours

A	o92041;	sd= 309 m;	14. 1.1992	15:00 – 19. 5.1992	4:00 (UTC)
B	o92042;	sd= 471 m;	14. 1.1992	15:00 – 19. 5.1992	5:00 (UTC)
C	o92043;	sd= 773 m;	14. 1.1992	15:00 – 19. 5.1992	5:00 (UTC)
D	o92044;	sd= 1176 m;	14. 1.1992	15:00 – 19. 5.1992	5:30 (UTC)
E	o92045;	sd= 1677 m;	14. 1.1992	15:00 – 19. 5.1992	5:30 (UTC)
F	o92046;	sd= 1978 m;	14. 1.1992	15:00 – 27. 3.1992	16:00 (UTC)

AL2, record no. = a92041, sampling depth = 309 m

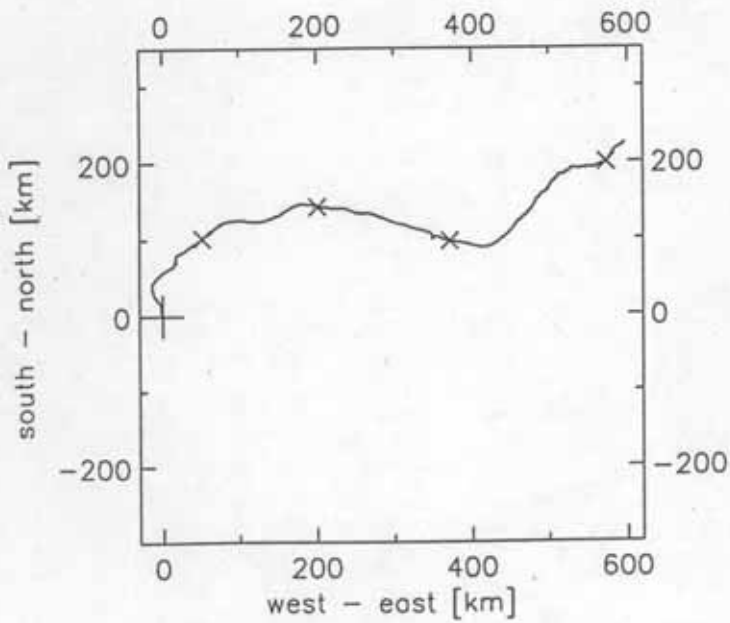
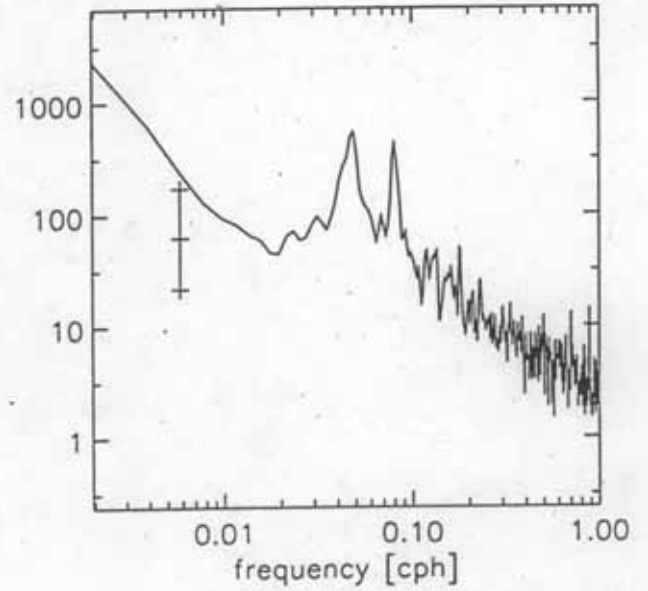
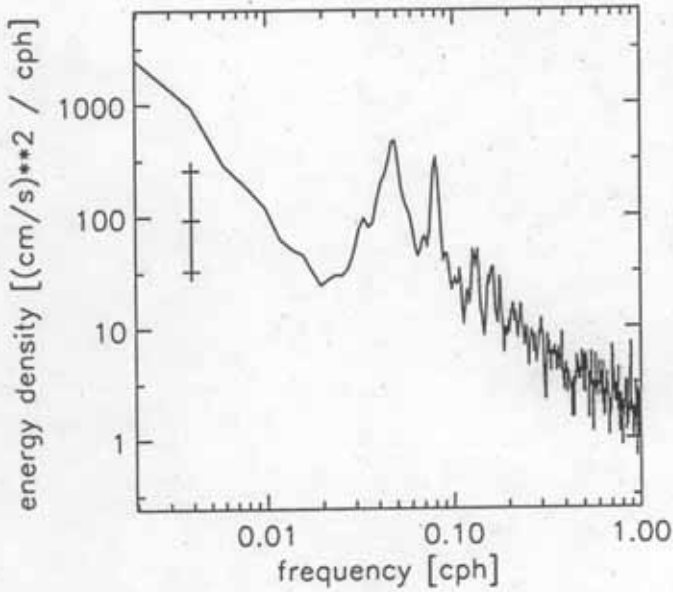


AL2

record no: a92041, sampling interval = 30.0 minutes

u-component (zonal)

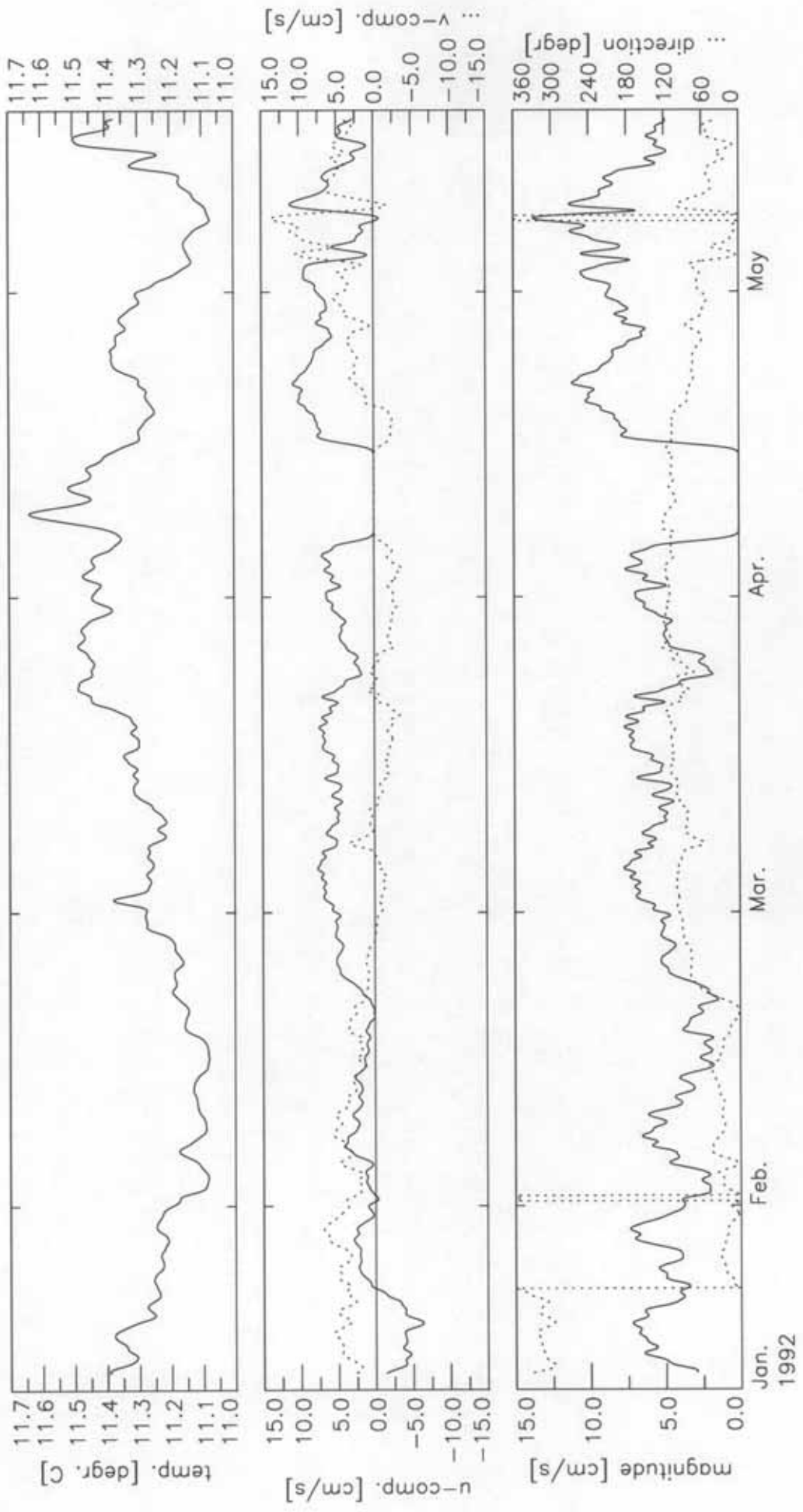
v-component (meridional)



14. 1.1992 15:00 - 19. 5.1992 4:00 (UTC)

Time marks (x) are given every 720 hours

AL2, record no. = a92042, sampling depth = 471 m

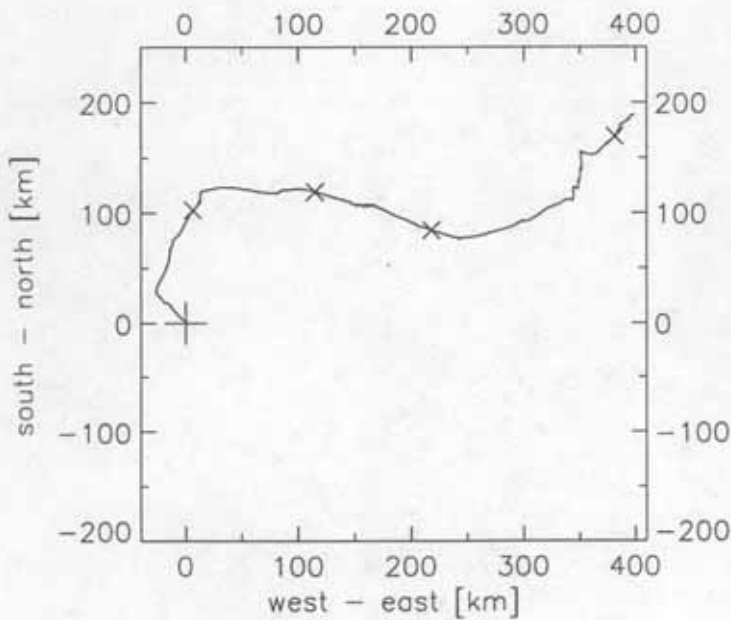
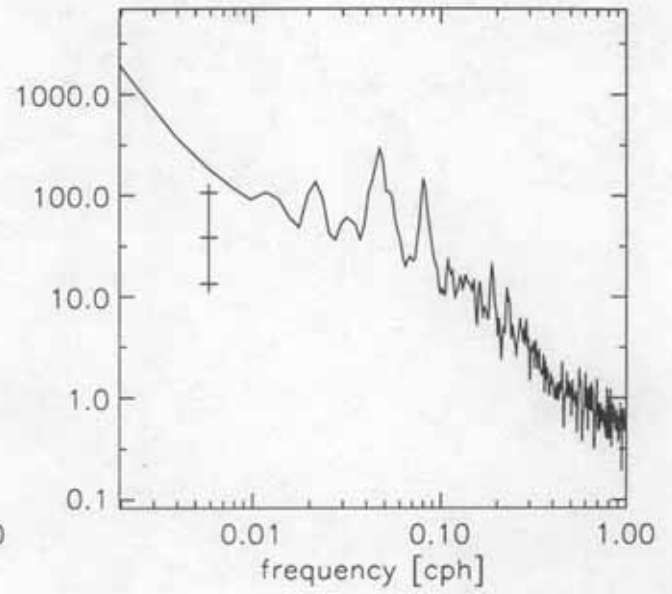
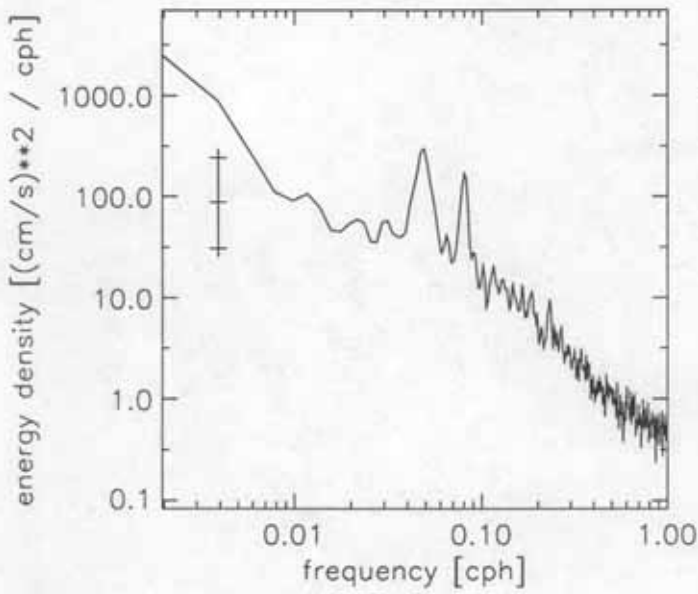


AL2

record no: a92042, sampling interval = 30.0 minutes

u-component (zonal)

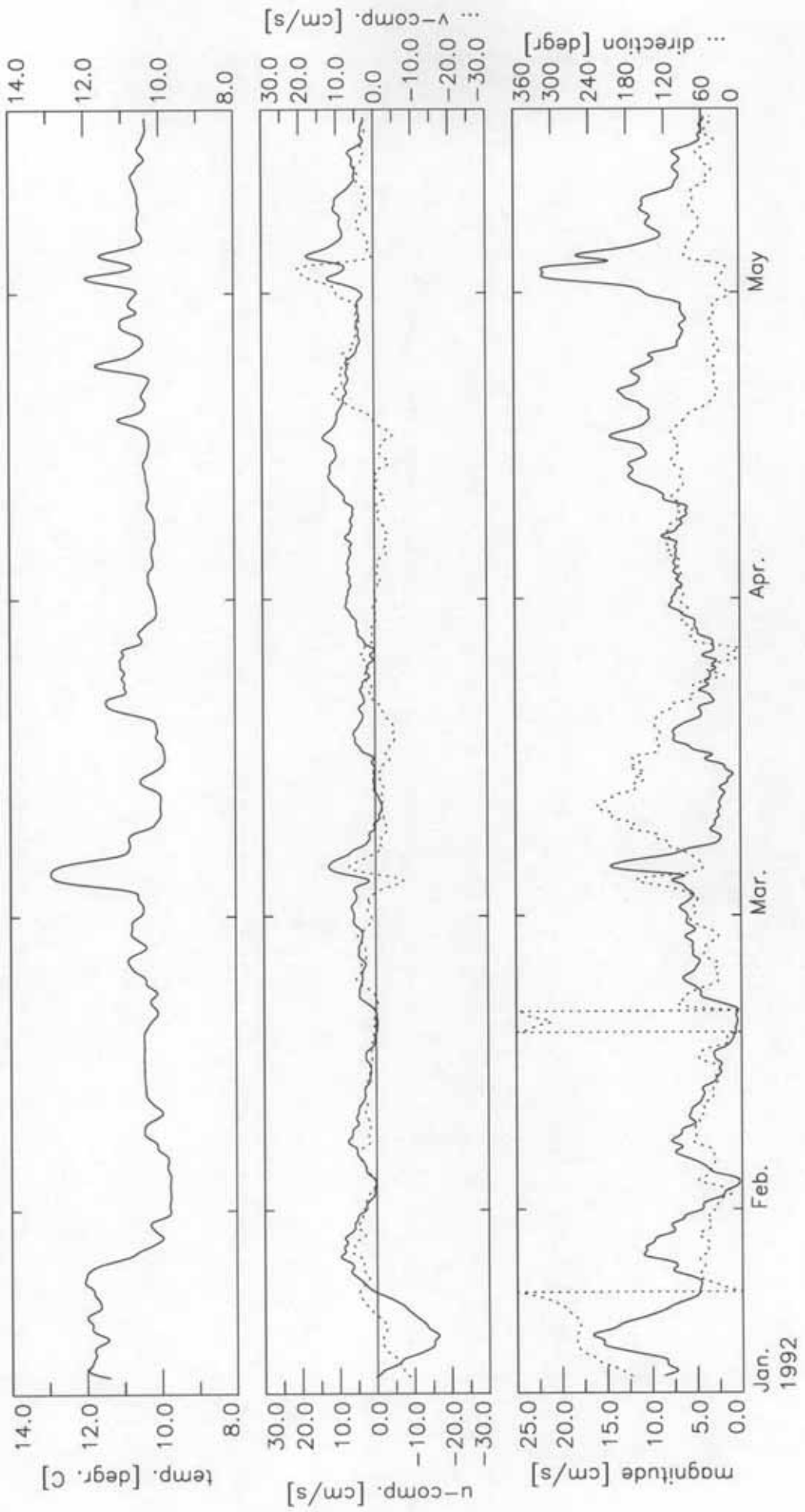
v-component (meridional)



14. 1.1992 15:00 - 19. 5.1992 5:00 (UTC)

Time marks (x) are given every 720 hours

AL2, record no. = a92043, sampling depth = 773 m

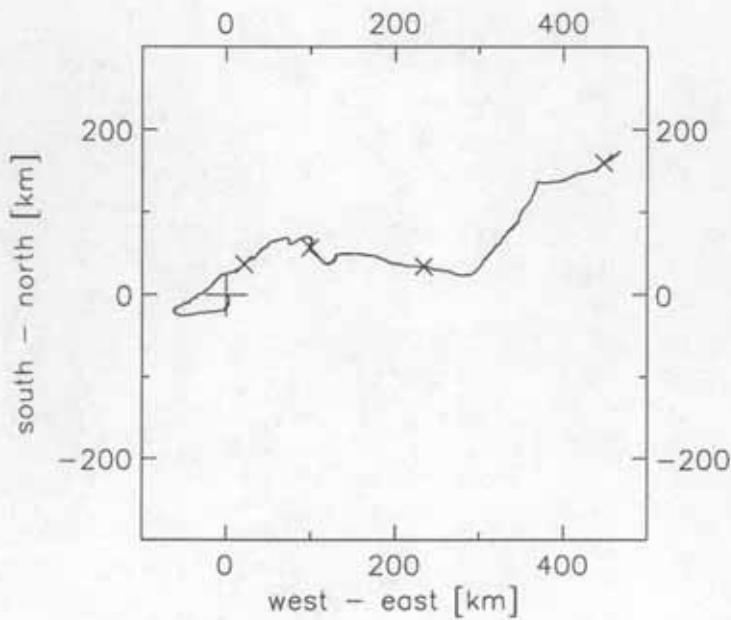
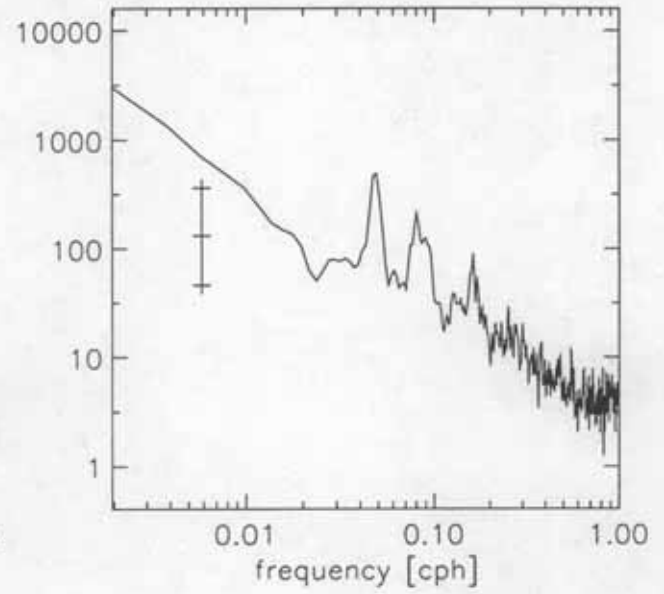
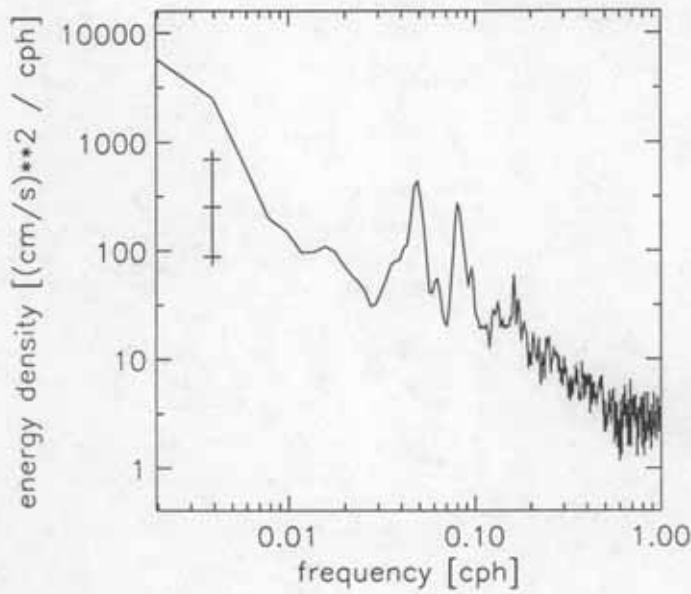


AL2

record no: a92043, sampling interval = 30.0 minutes

u-component (zonal)

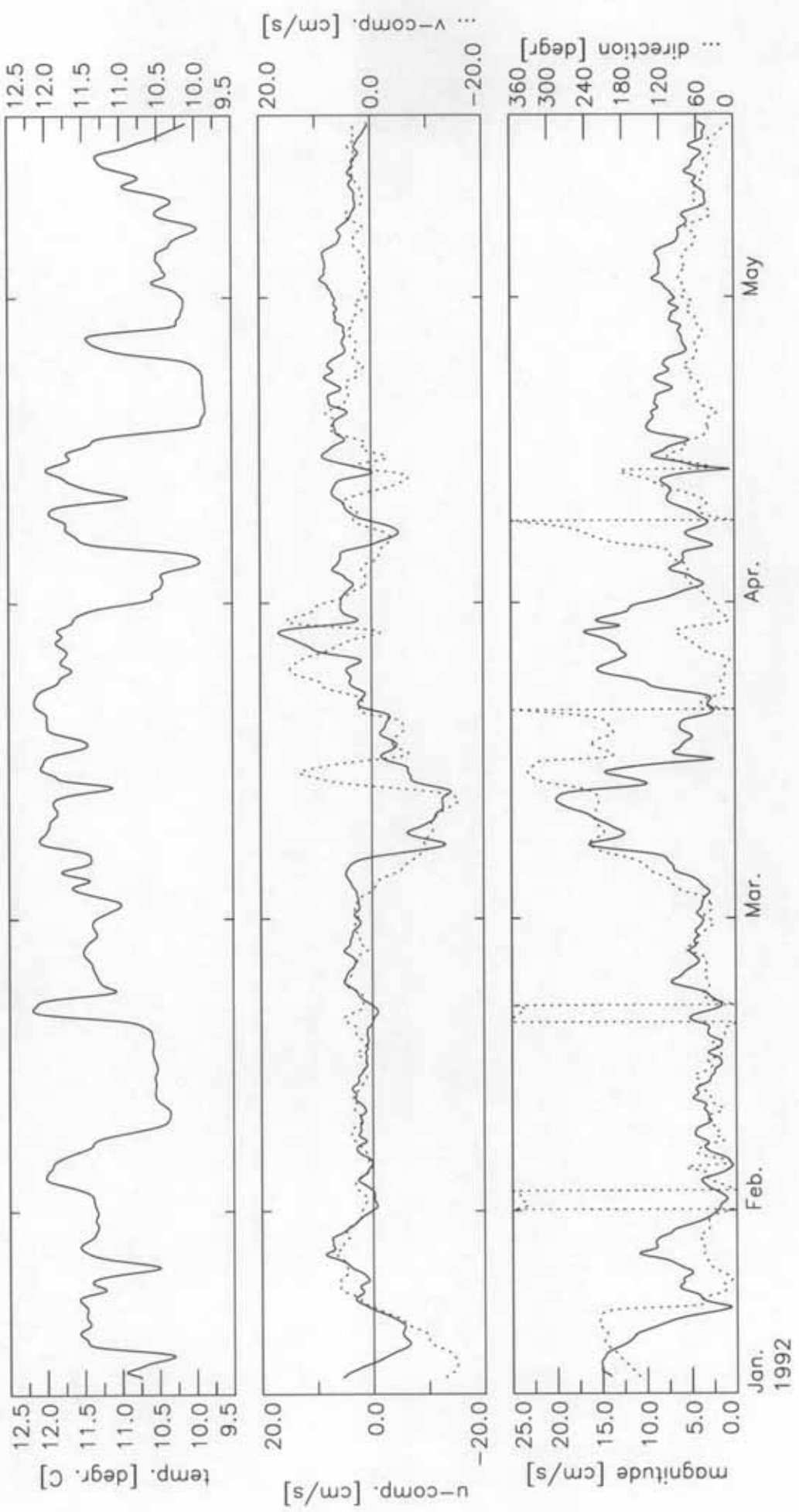
v-component (meridional)



14. 1.1992 15:00 - 19. 5.1992 5:00 (UTC)

Time marks (x) are given every 720 hours

AL2, record no. = a92044, sampling depth = 1176 m

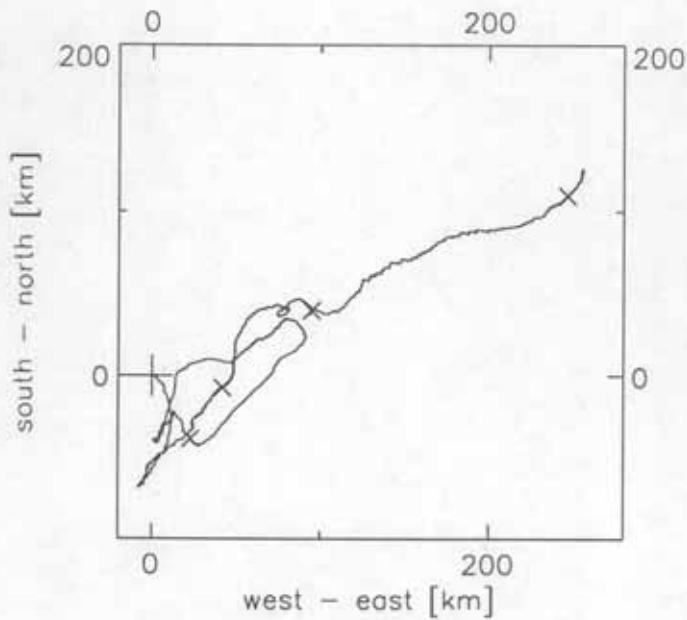
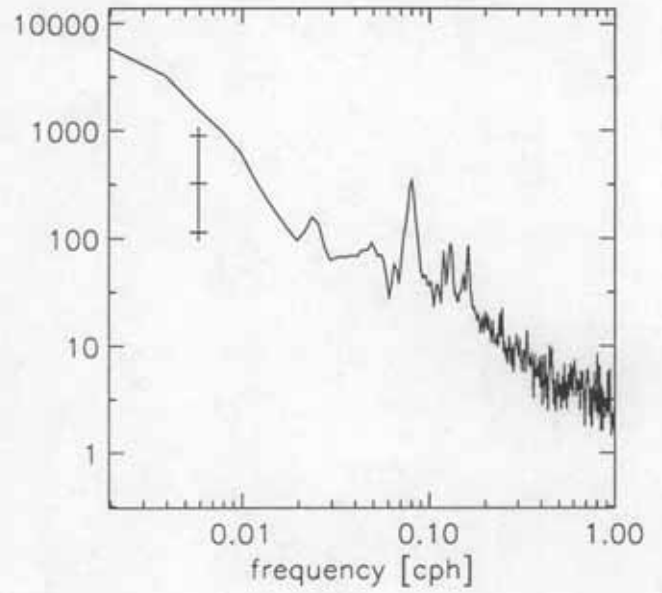
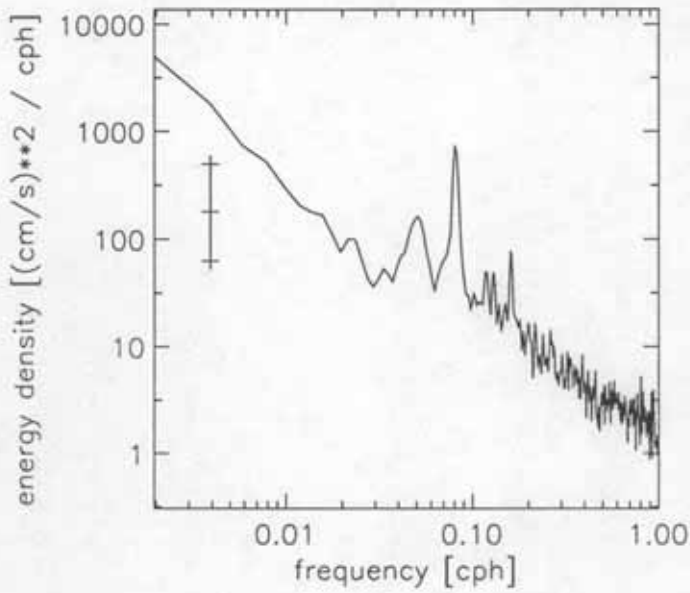


AL2

record no: a92044, sampling interval = 30.0 minutes

u-component (zonal)

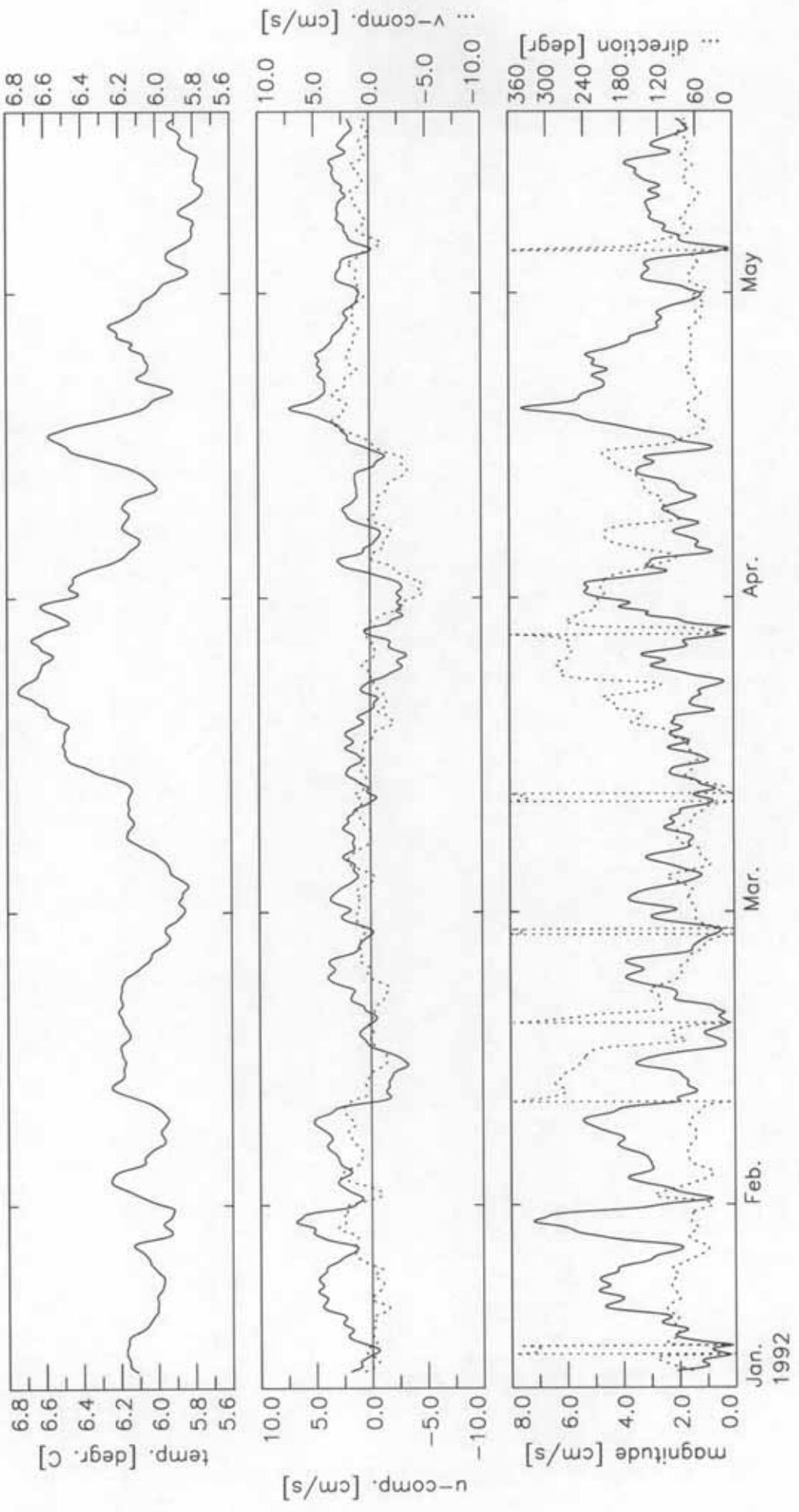
v-component (meridional)



14. 1.1992 15:00 - 19. 5.1992 5:30 (UTC)

Time marks (x) are given every 720 hours

AL2, record no. = a92045, sampling depth = 1677 m

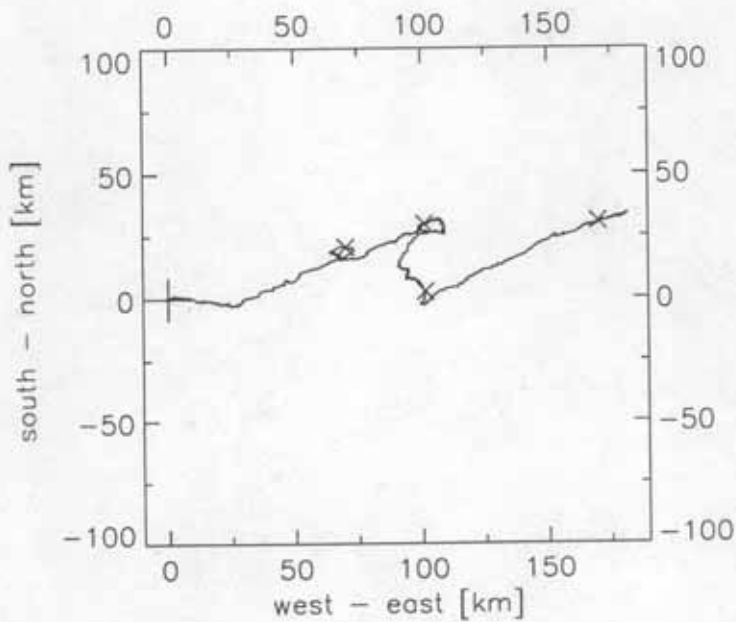
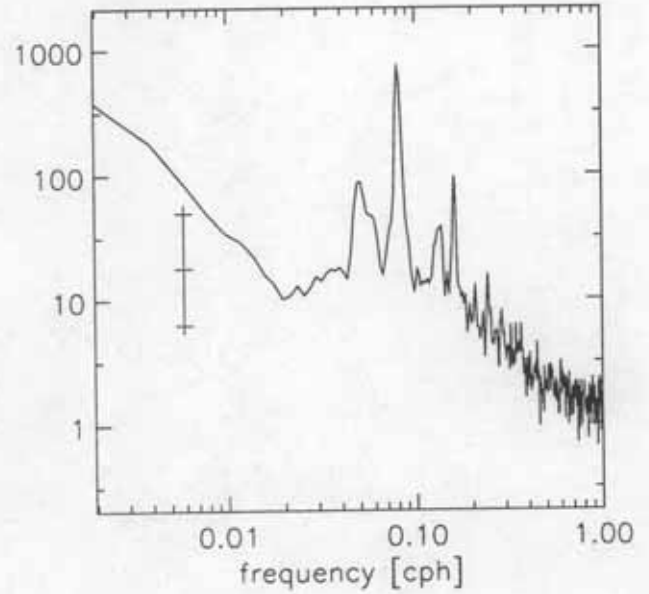
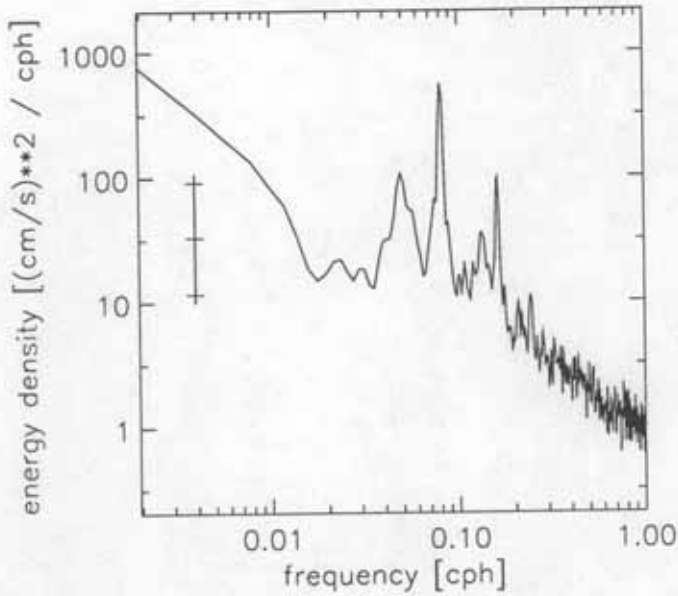


AL2

record no: a92045, sampling interval = 30.0 minutes

u-component (zonal)

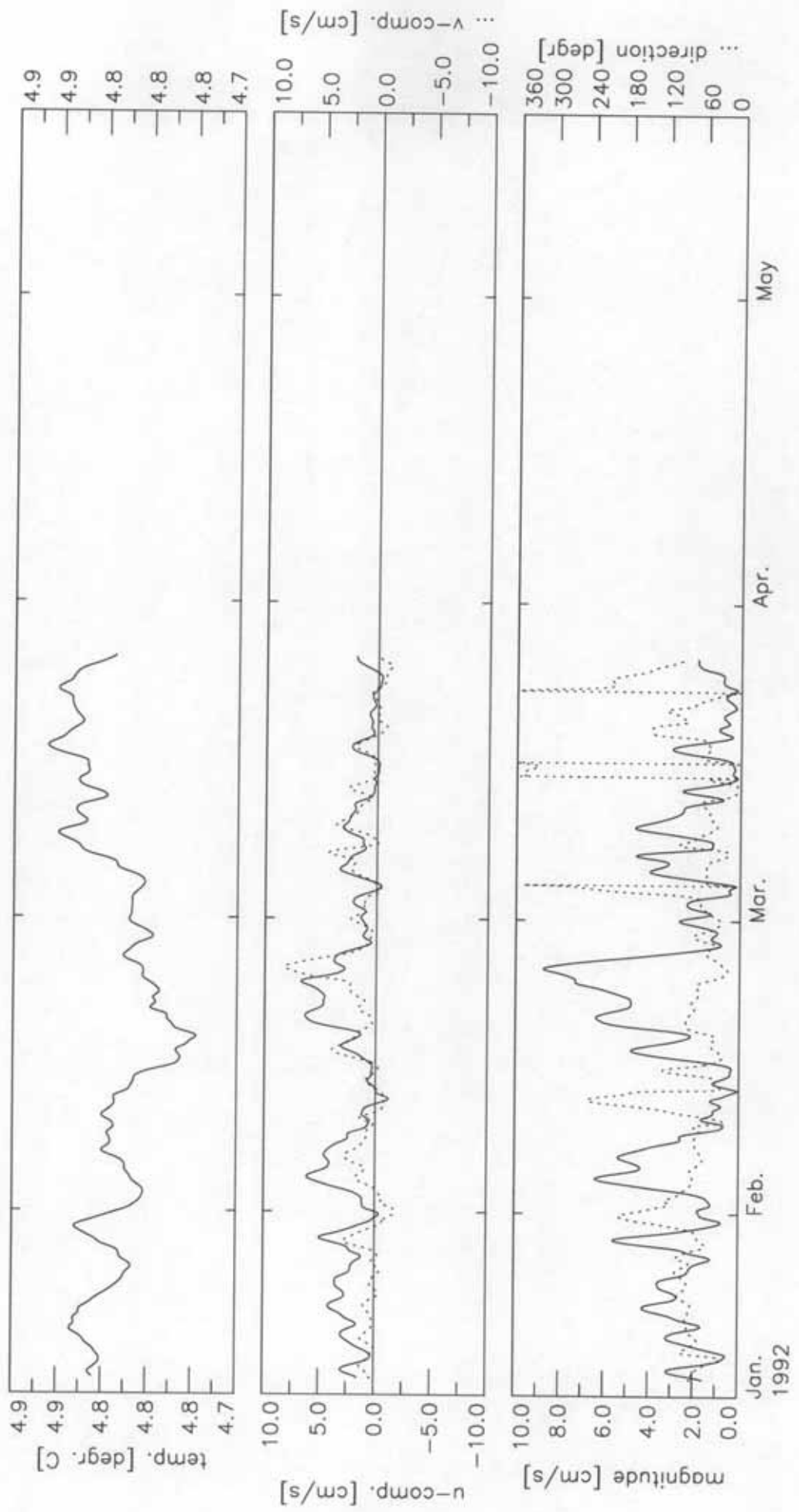
v-component (meridional)



14. 1.1992 15:00 - 19. 5.1992 5:30 (UTC)

Time marks (x) are given every 720 hours

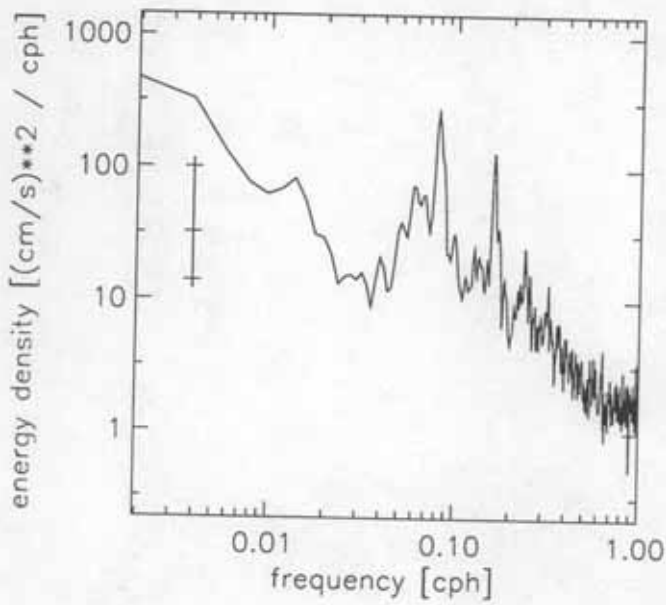
AL2, record no. = a92046, sampling depth = 1978 m



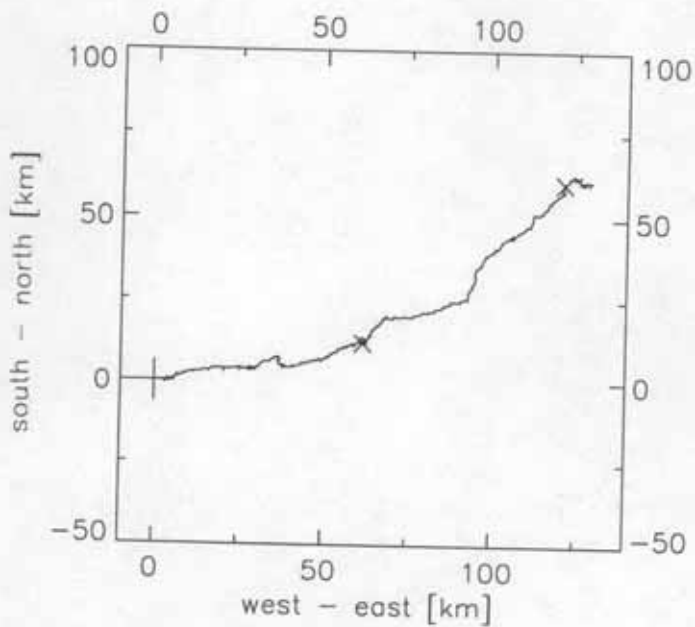
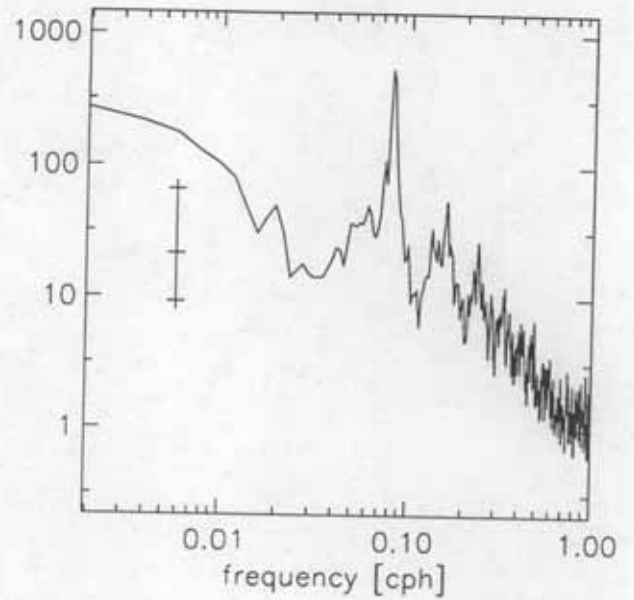
AL2

record no: a92046, sampling interval = 30.0 minutes

u-component (zonal)



v-component (meridional)



14. 1.1992 15:00 - 27. 3.1992 16:00 (UTC)

Time marks (x) are given every 720 hours

R

Mooring Data R

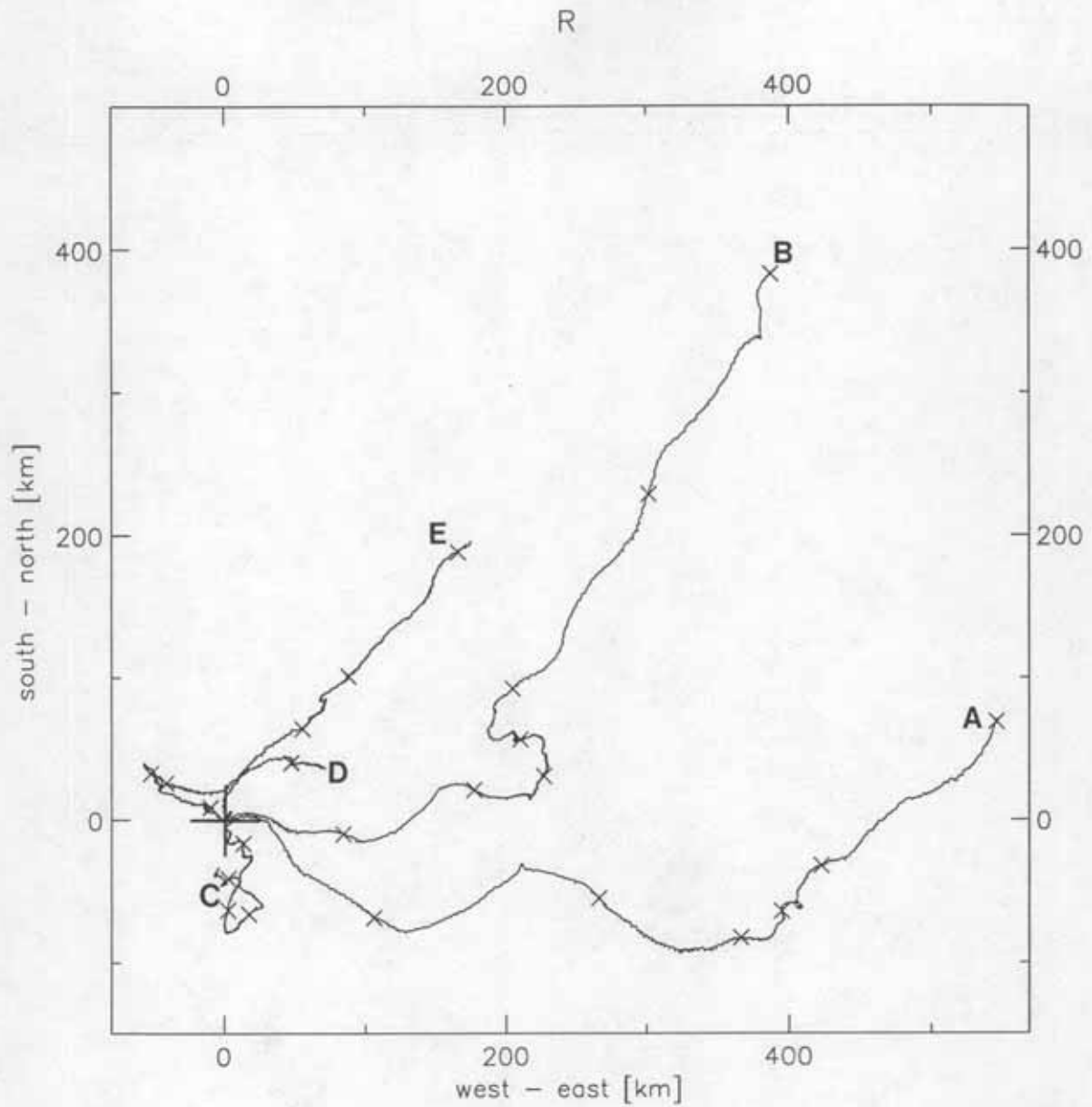
current meter	sampl. depth	mab	record no.	sampling time			
-	m	m	-	UTC			
R:	20.10.91 - 15.4.92, 34° 29.1'N, 7° 50.8'W, si = 30'						
RCM7 9084	538	1457	92036	19.10.91	12:00	-	16.4.92 16:30
RCM7 9053	791	1204	92037	19.10.91	12:00	-	18.5.92 18:30
RCM8 9754	1192	803	92038	19.10.91	12:00	-	7.3.92 19:00
RCM8 10079	1693	302	92039	19.10.91	12:00	-	1.3.92 07:00
RCM8 10080	1975	20	92040	19.10.91	12:00	-	22.3.92 18:00

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

Id	sampl. depth	rec. length	\bar{u} \bar{v}	cm/s	mag V	$\frac{\overline{u'u'}}{V'V'}$	$\overline{u'v'}$	k_E k_M	T_x T_y	L_x L_y	K_x K_y	dir
m	days	cm/s	cm/s	cm/s	cm ² /s ²	cm ² /s ²	cm ² /s ²	cm ² /s ²	days	km	cm ² /s ² × 10 ⁶	°
R:	538	178	3.1±0.06	6.2	8.7	0.7	8.0	19.9	50.8	15.0	59	
	791	210	1.9±0.06	3.6	7.3	2.0	6.6	7.3	16.9	4.6	45	
	1192	138	2.1±0.04	5.9	5.4	0.5	6.7	13.7	27.4	6.4	191	
	1693	132	2.1±0.05	3.0	8.0	2.4	4.5	19.6	48.0	13.6	123	
	1975	91	2.1±0.03	3.6	1.5	2.4	1.8	4.0	4.3	0.5	42 ¹⁾	
			-0.1±0.03	0.3	2.2	2.4	<0.1	9.4	11.9	1.7		
			-0.3±0.03	4.4	3.8	4.4	4.1	8.8	14.8	2.9		
			0.1±0.05	0.1	4.4	2.4	<0.1	11.5	20.7	4.3		
			-0.0±0.05	6.7	4.7	5.4	3.6	2.9	5.4	1.2		
			2.2±0.06	3.3	2.6	5.4	5.4	3.1	4.3	0.7		

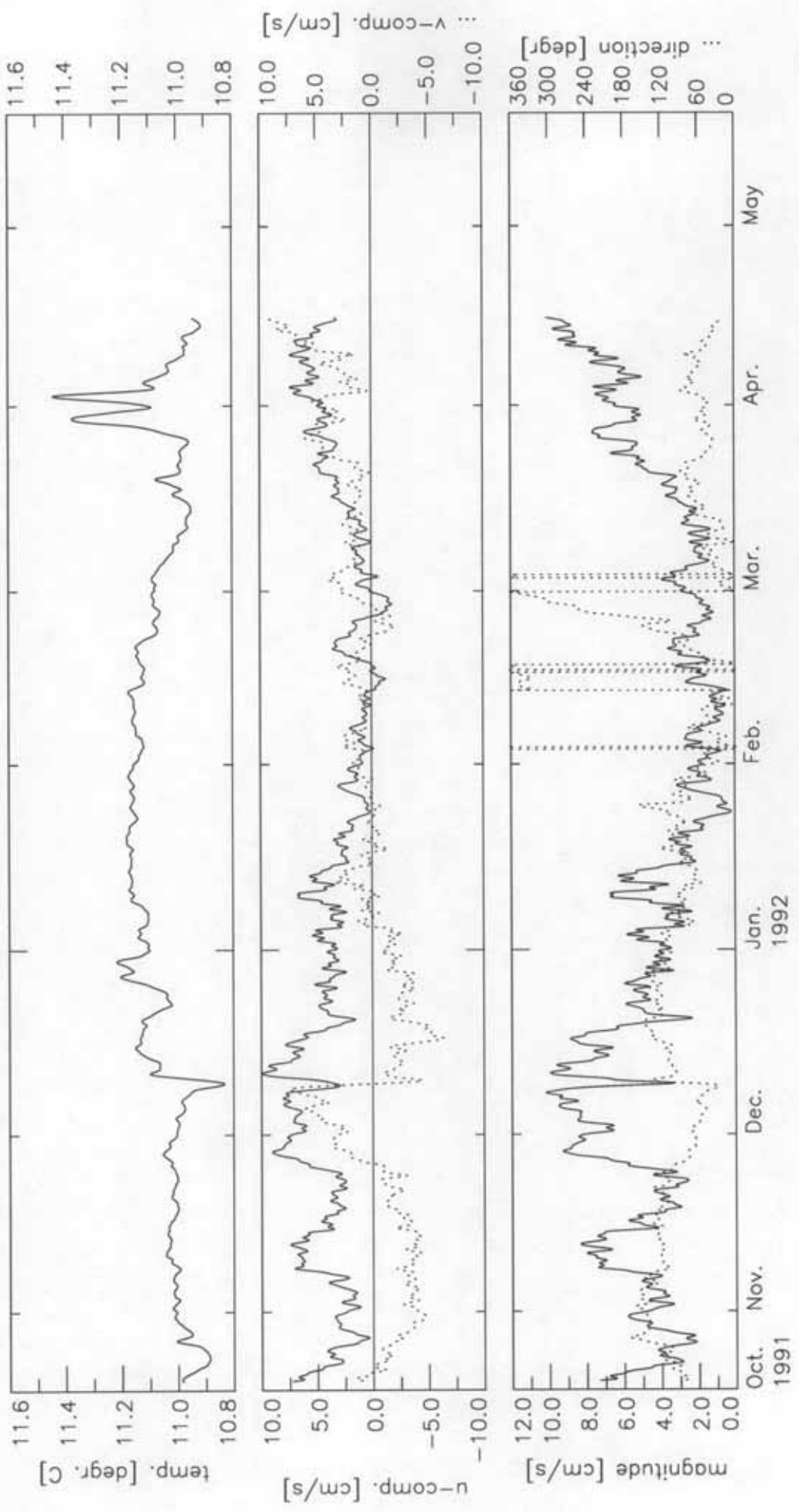
1) Rotor blocked from 19.1.92 - 5.3.92. Statistics calculated from 20.10.91 - 19.1.92.



Time marks (x) are given every 720 hours

A	a92036; sd= 538 m; 19.10.1991 12:00 - 16. 4.1992 16:30 (UTC)
B	a92037; sd= 791 m; 19.10.1991 12:00 - 18. 5.1992 18:30 (UTC)
C	a92038; sd= 1192 m; 19.10.1991 12:00 - 7. 3.1992 19:00 (UTC)
D	a92039; sd= 1693 m; 19.10.1991 12:00 - 1. 2.1992 7:00 (UTC)
E	a92040; sd= 1975 m; 19.10.1991 12:00 - 19. 1.1992 10:00 (UTC)

R, record no. = a92036, sampling depth = 538 m

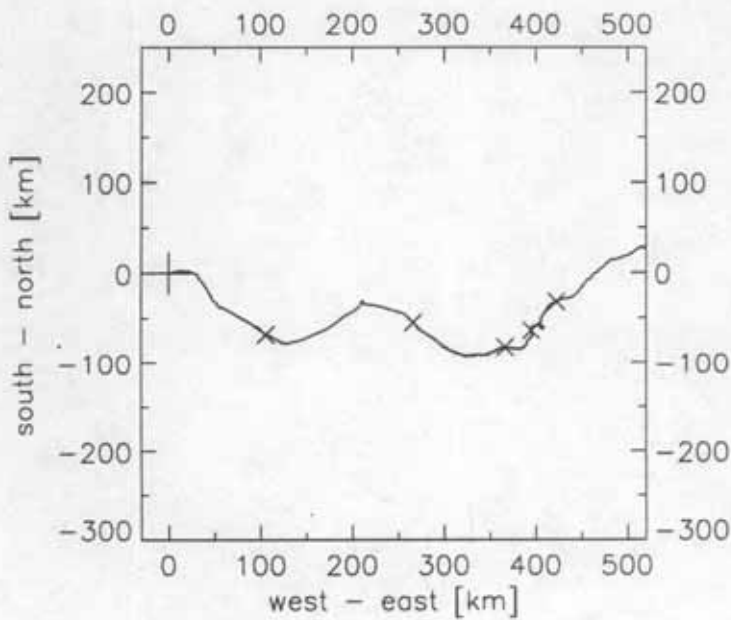
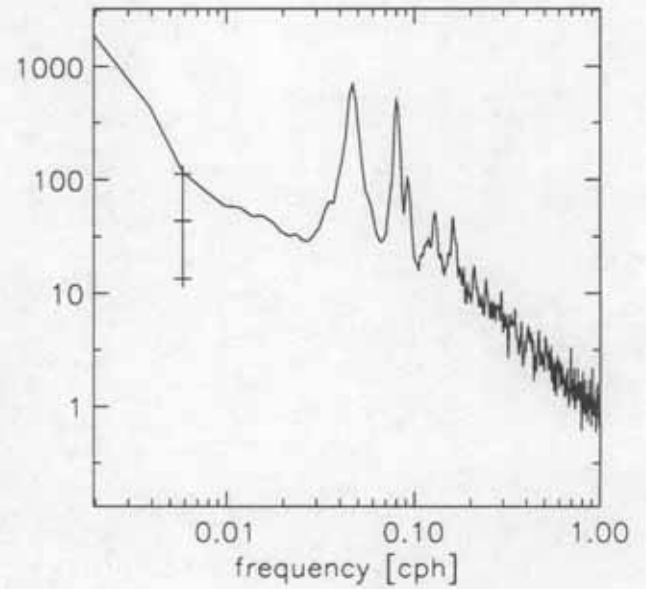
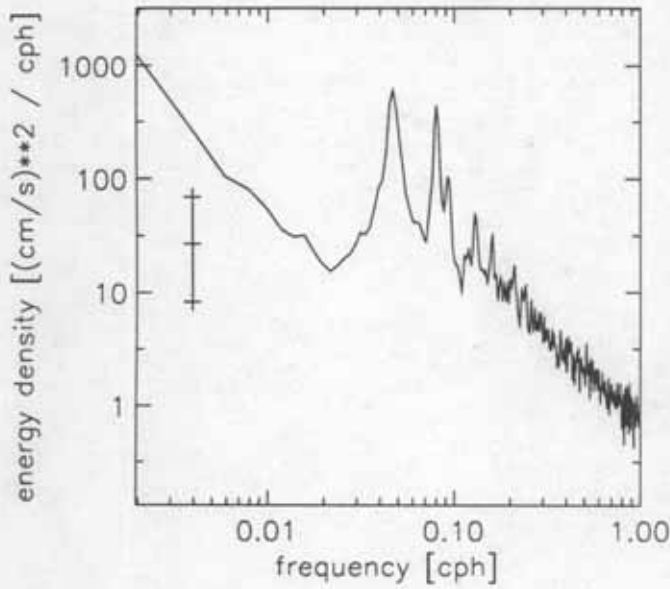


R

record no: a92036, sampling interval = 30.0 minutes

u-component (zonal)

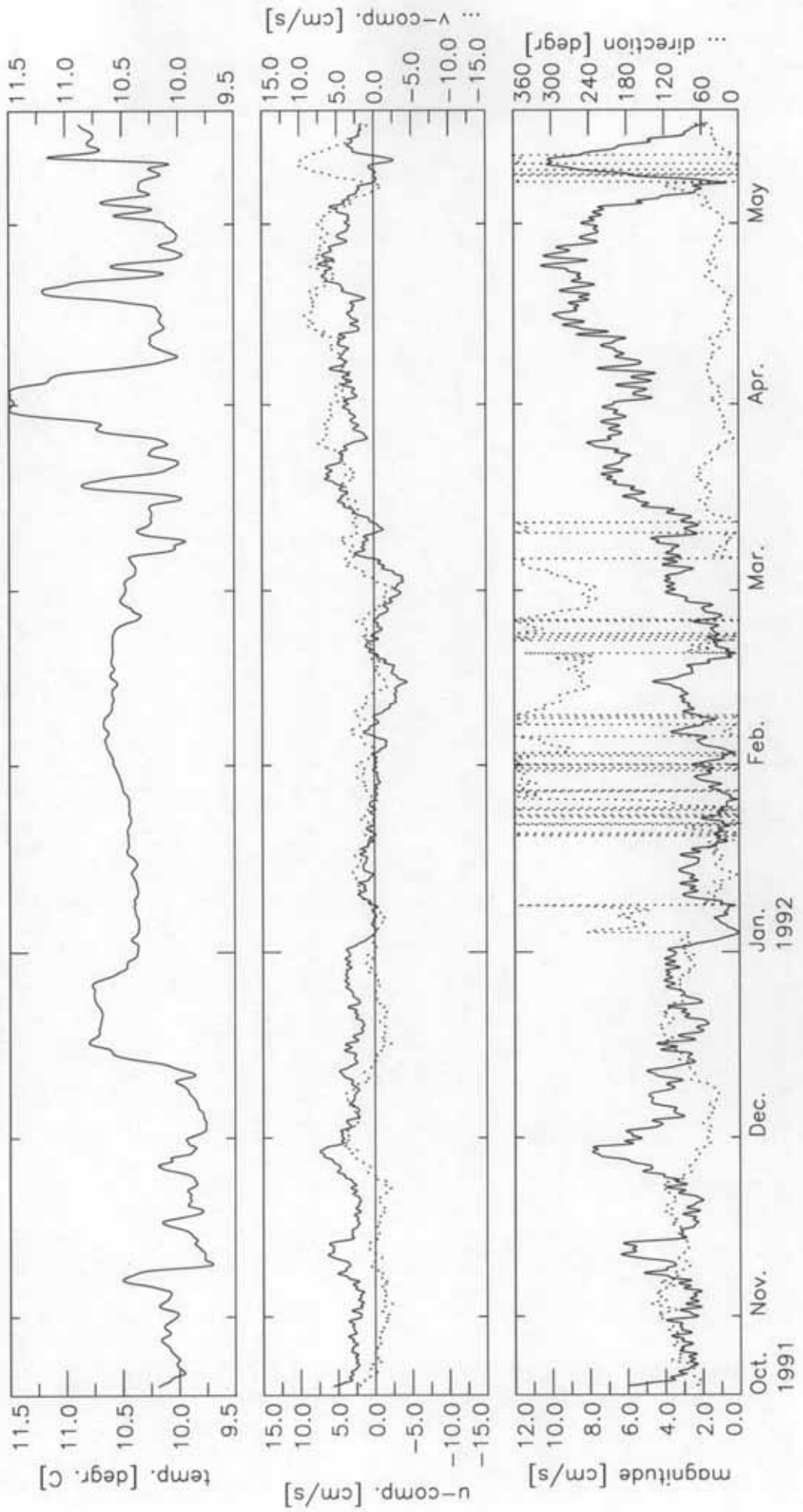
v-component (meridional)



19.10.1991 12:00 - 16. 4.1992 16:30 (UTC)

Time marks (x) are given every 720 hours

R, record no. = a92037, sampling depth = 791 m

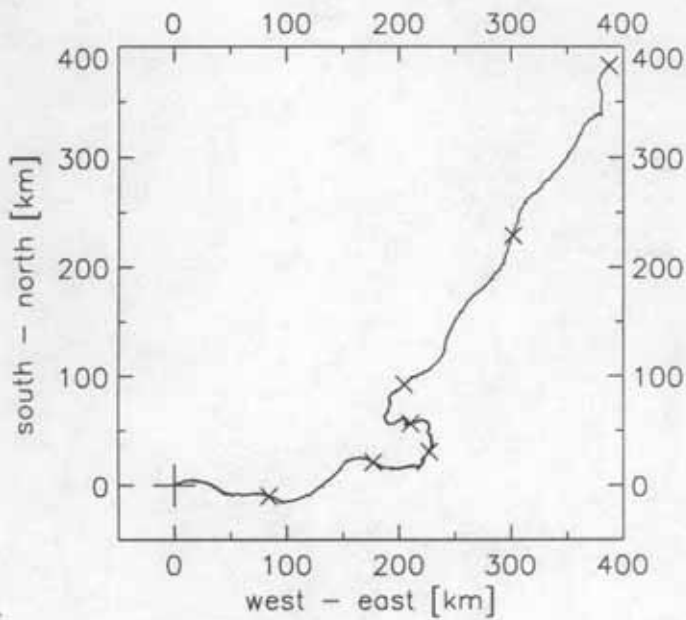
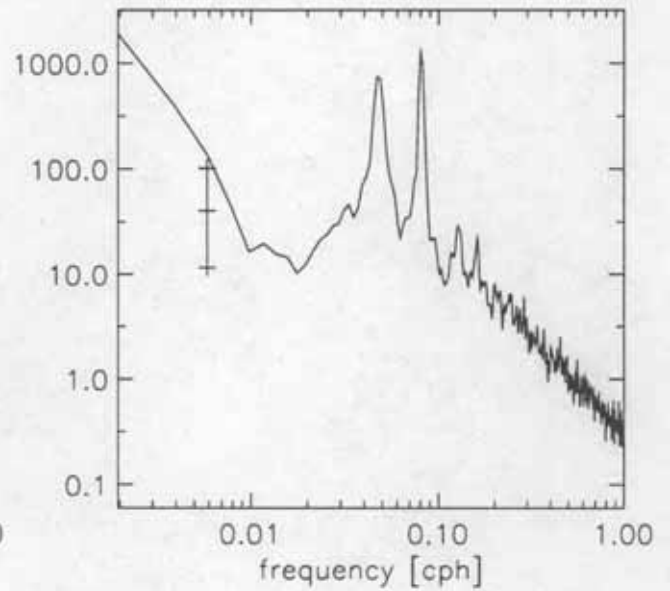
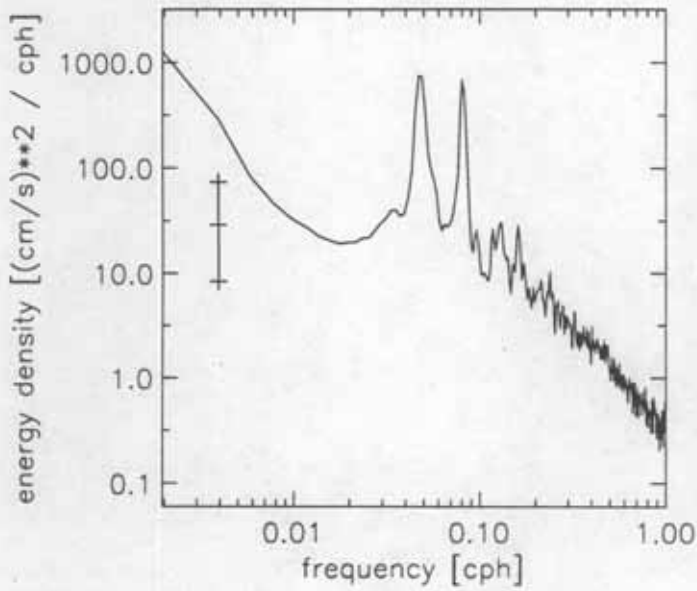


R

record no: a92037, sampling interval = 30.0 minutes

u-component (zonal)

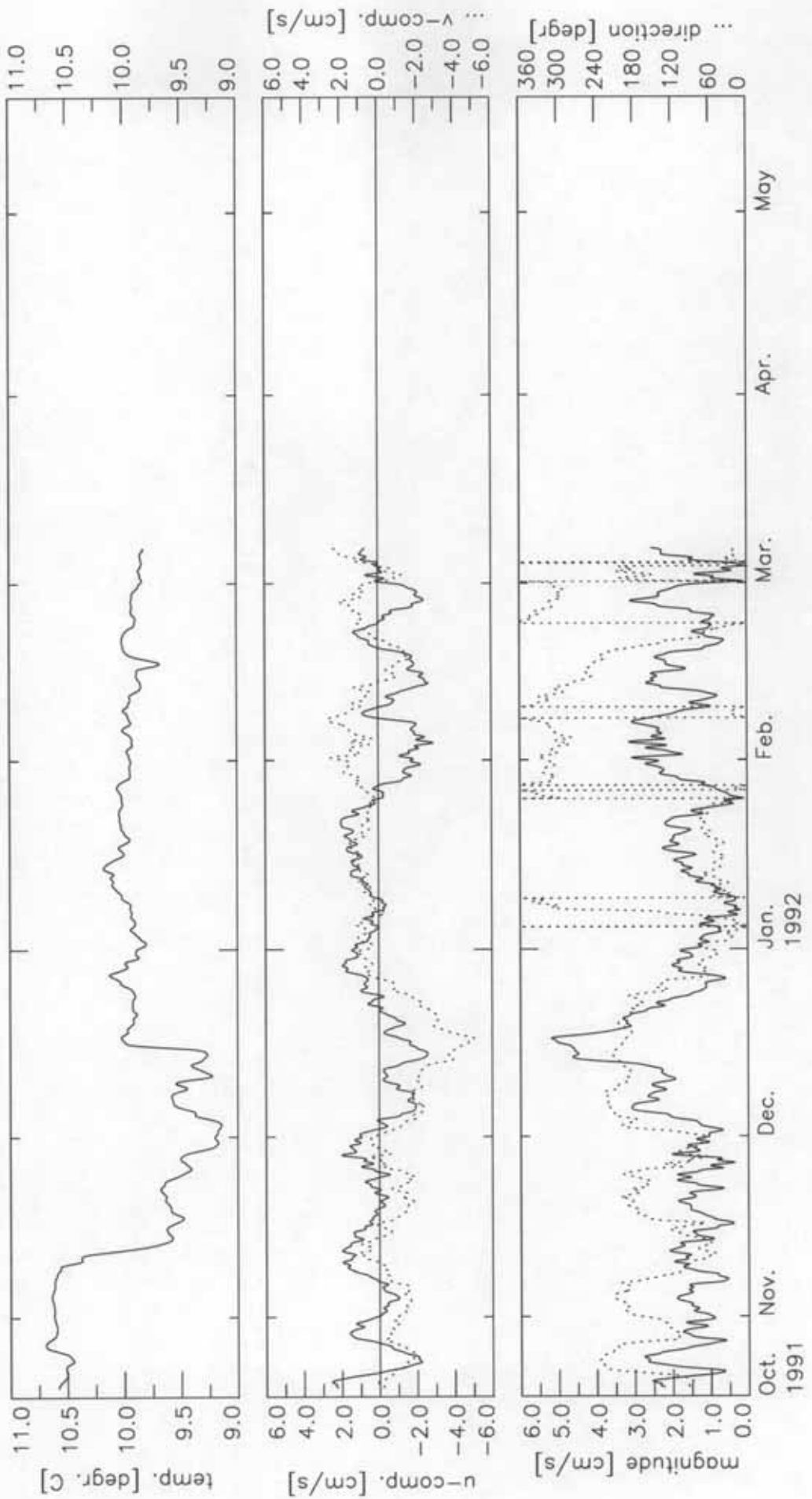
v-component (meridional)



19.10.1991 12:00 - 18. 5.1992 18:30 (UTC)

Time marks (x) are given every 720 hours

R, record no. = a92038, sampling depth = 1192 m

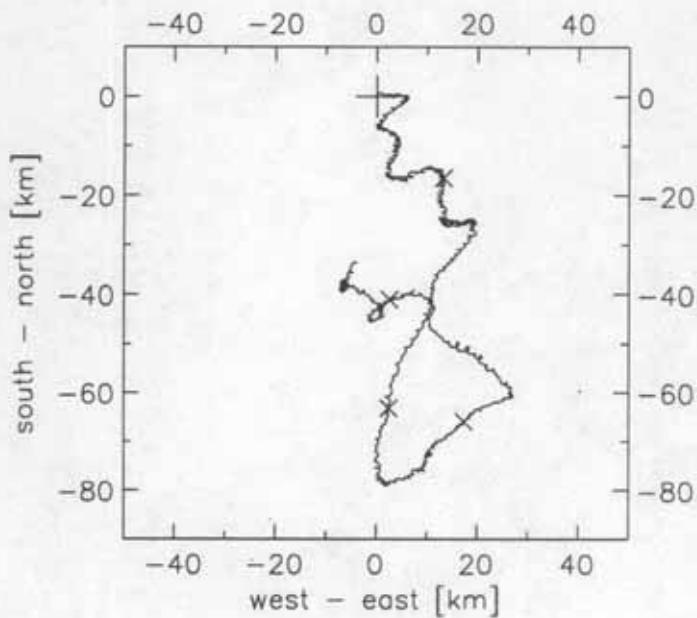
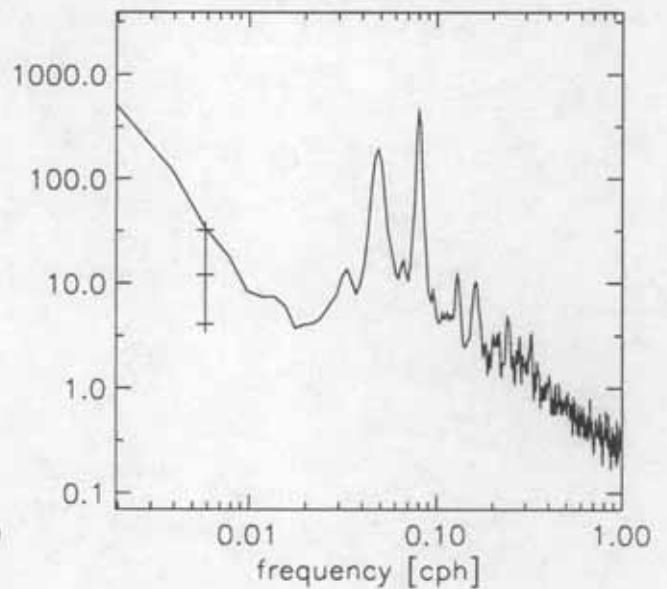
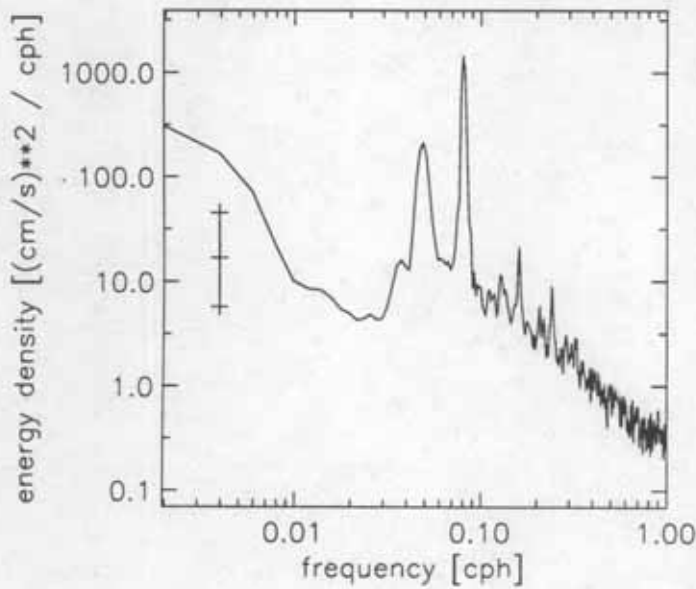


R

record no: a92038, sampling interval = 30.0 minutes

u-component (zonal)

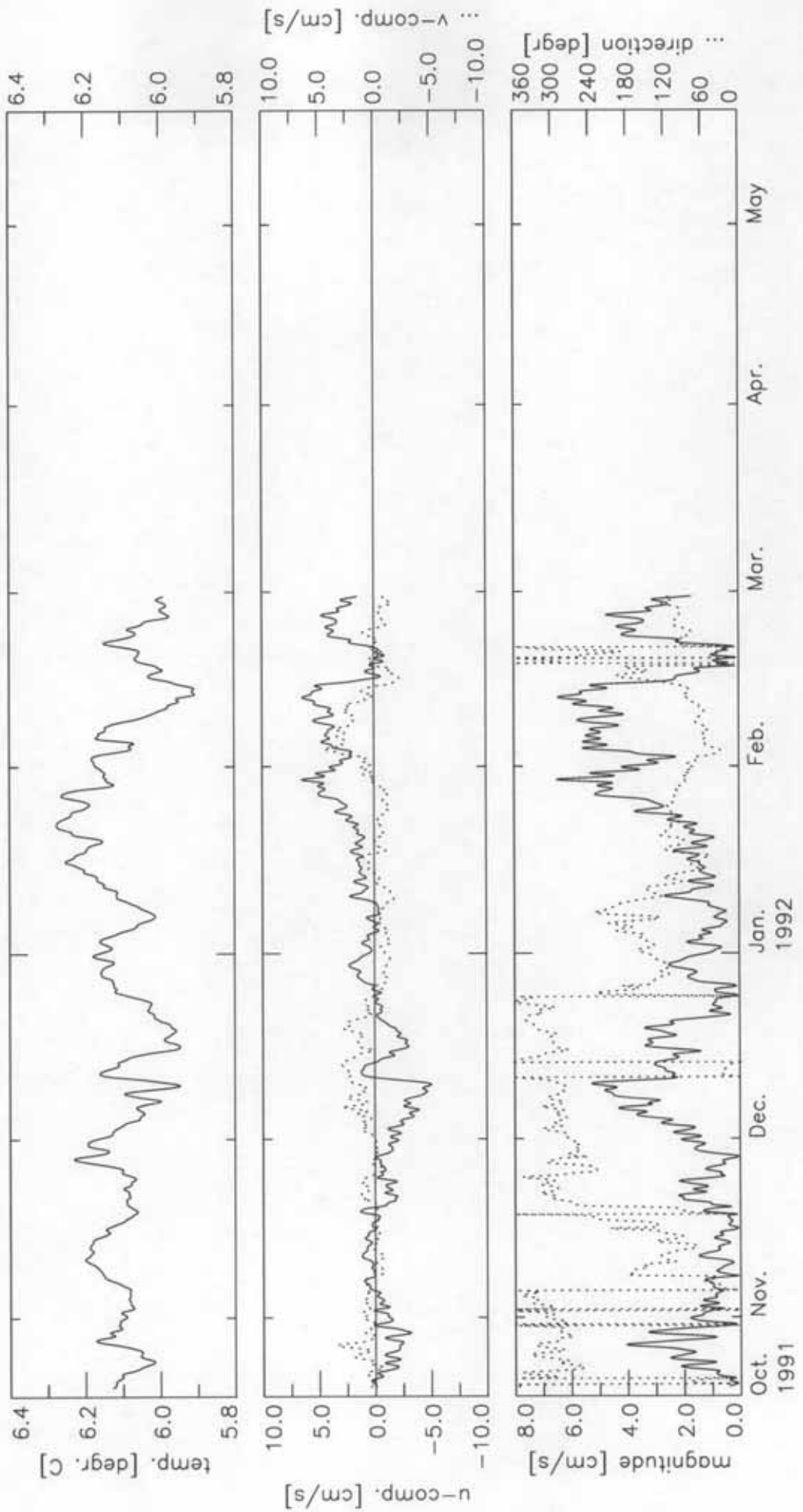
v-component (meridional)



19.10.1991 12:00 - 7. 3.1992 19:00 (UTC)

Time marks (x) are given every 720 hours

R, record no. = a92039, sampling depth = 1693 m

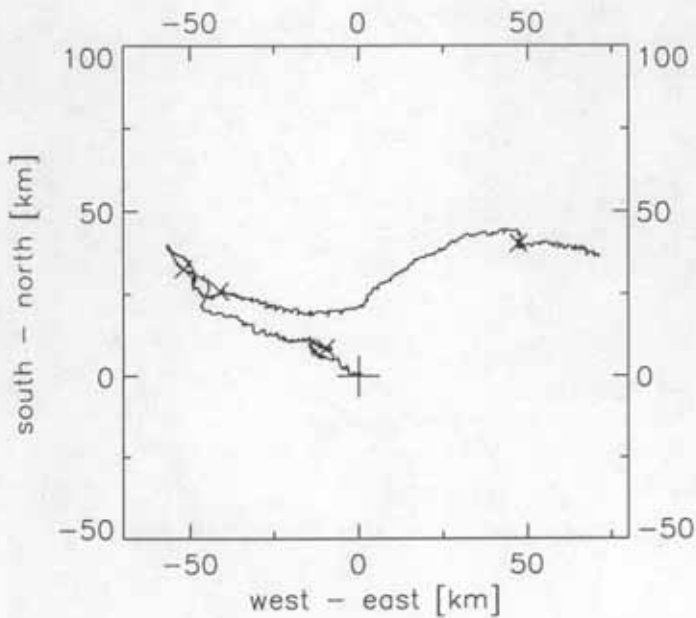
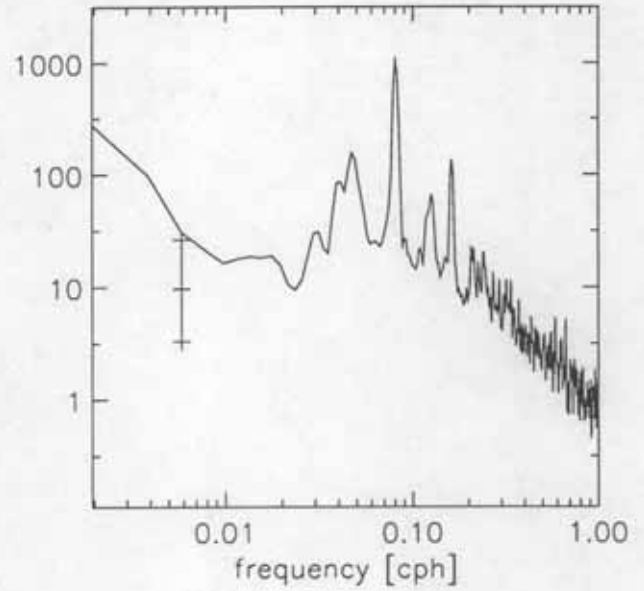
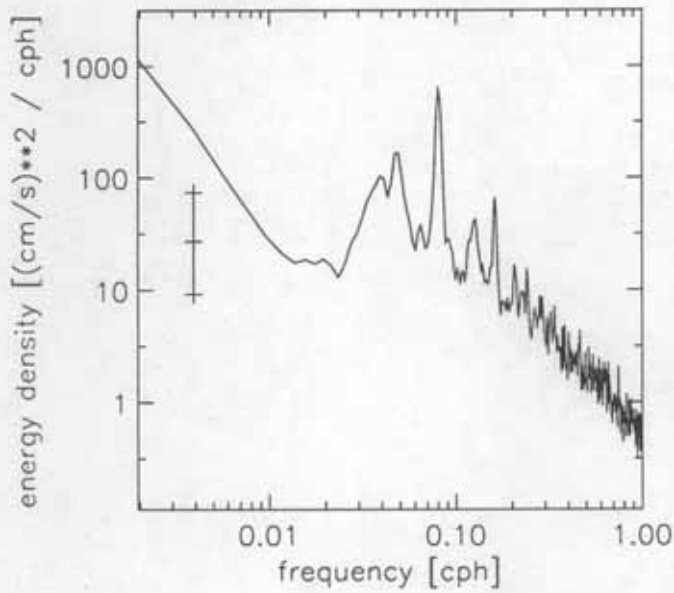


R

record no: a92039, sampling interval = 30.0 minutes

u-component (zonal)

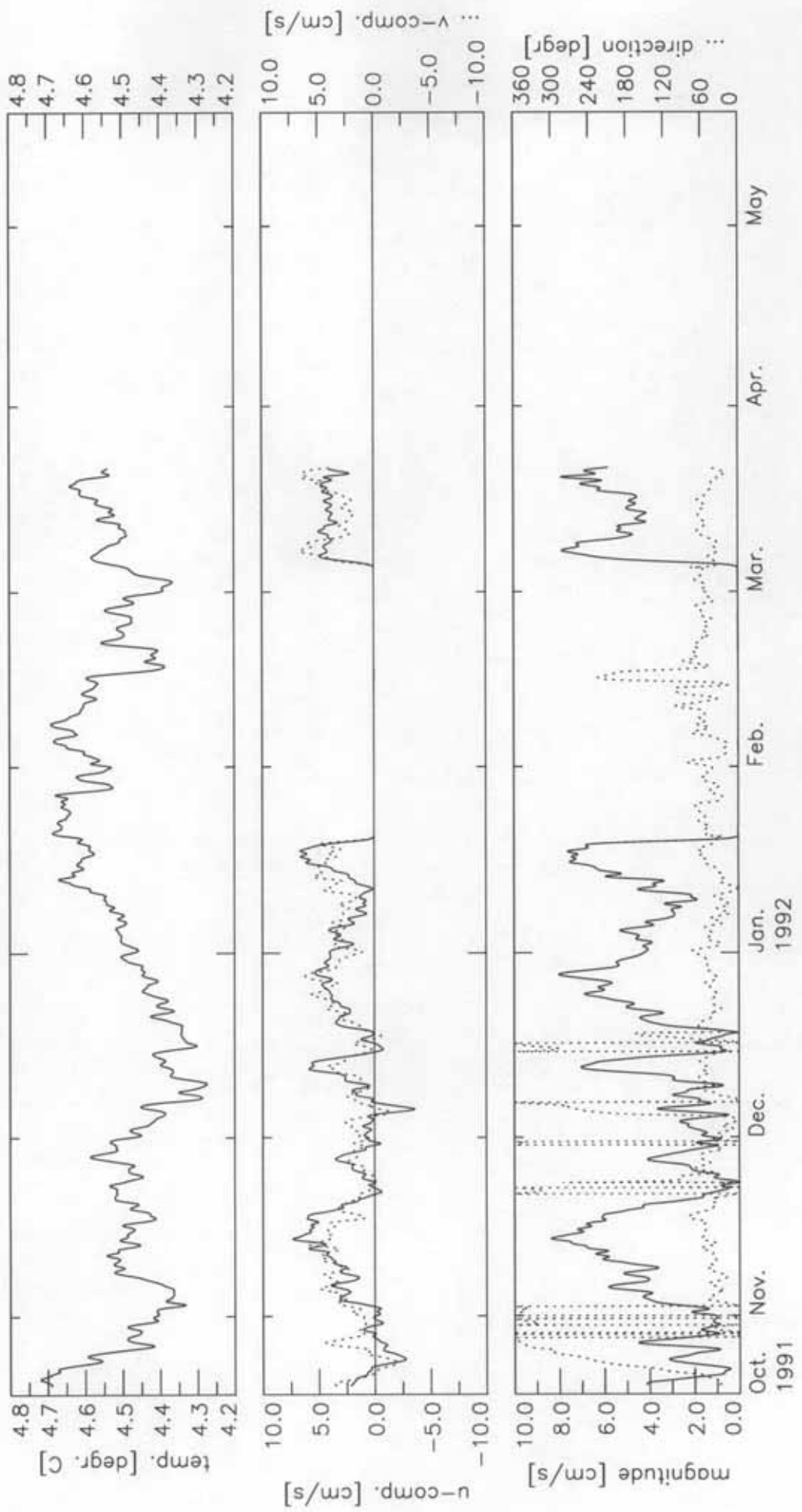
v-component (meridional)



19.10.1991 12:00 - 1. 2.1992 7:00 (UTC)

Time marks (x) are given every 720 hours

R, record no. = a92040, sampling depth = 1975 m

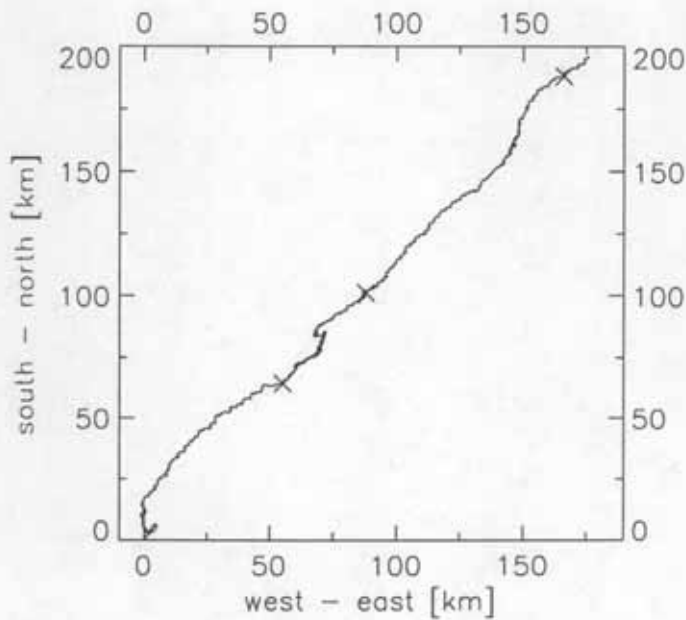
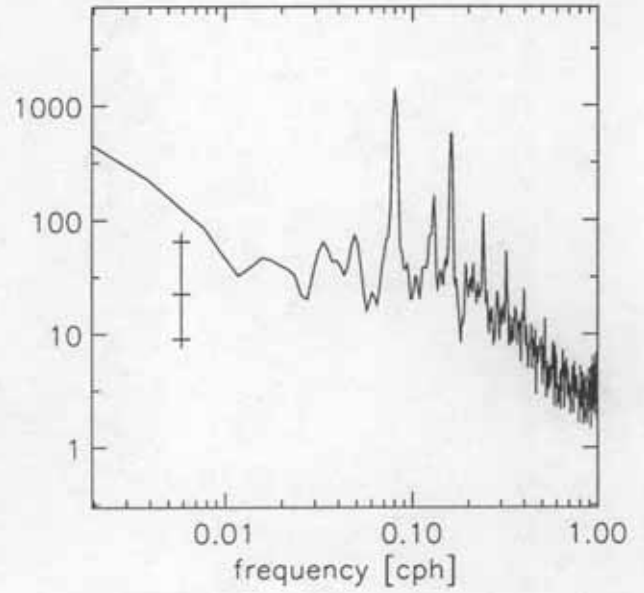
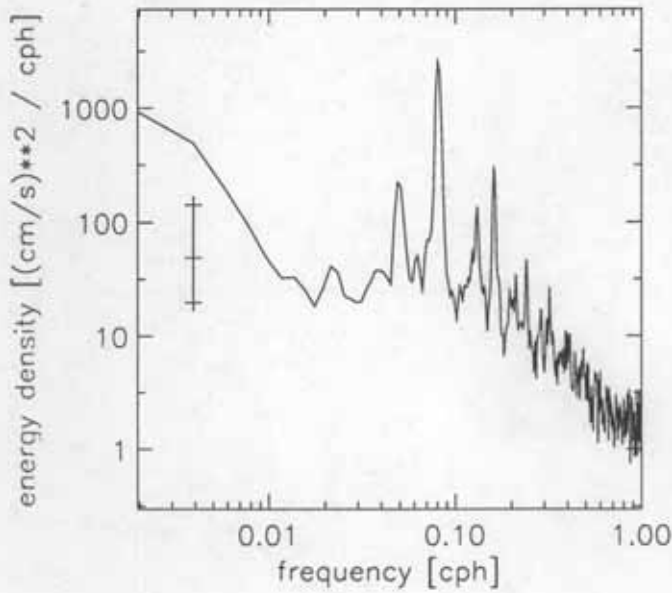


R

record no: a92040, sampling interval = 30.0 minutes

u-component (zonal)

v-component (meridional)



19.10.1991 12:00 - 19. 1.1992 10:00 (UTC)

Time marks (x) are given every 720 hours

M3

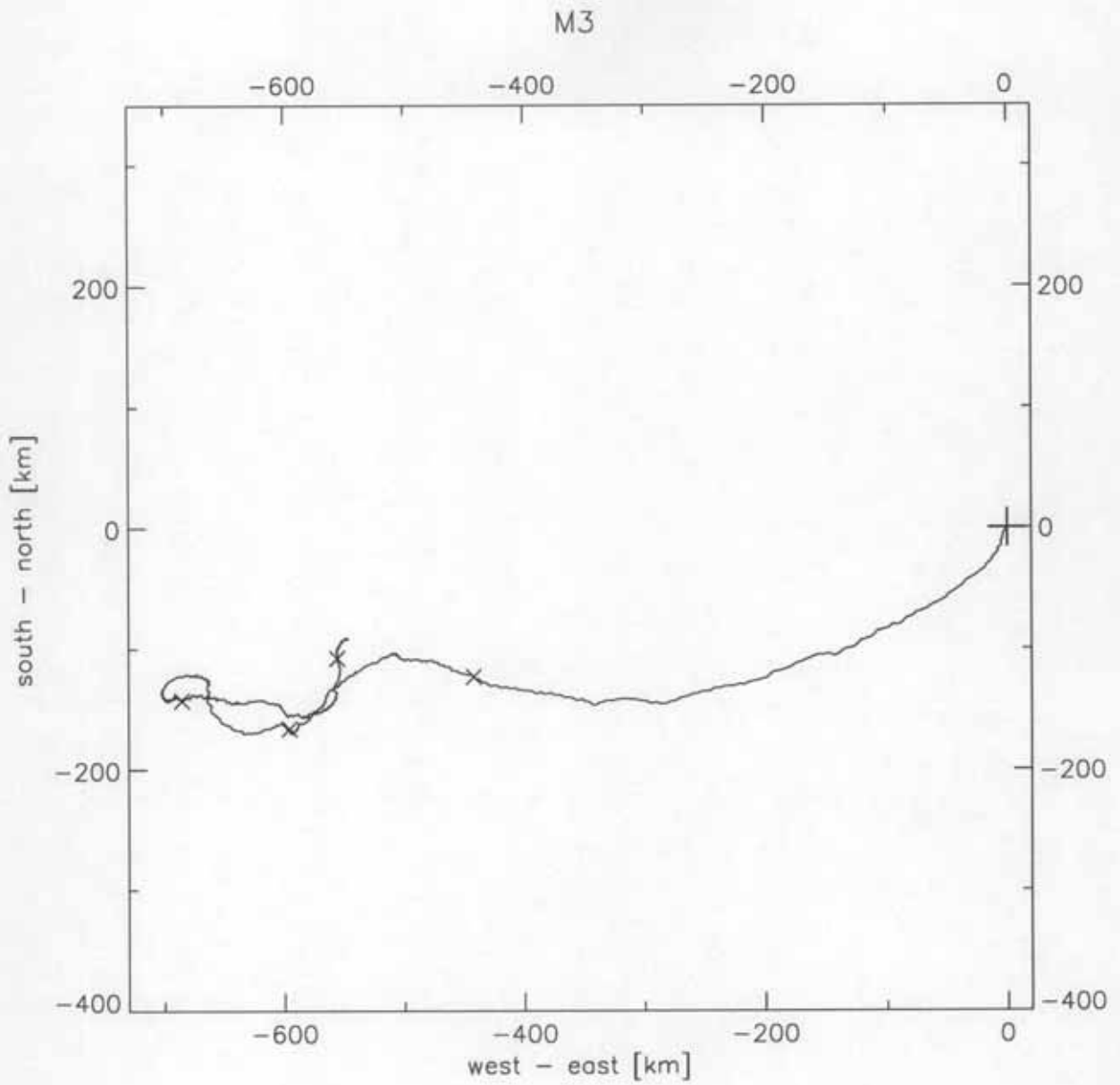
Mooring Data M3

current meter	sampl. depth	mab	record no.	sampling time
-	m	m	-	UTC
M3: 18.1.92 - 25.5.92, 32° 35.72'N, 10° 49.18'W, si = 30'				
RCM8 10086	169	3810	92057	18.1.92 10:30 - 25.5.92 13:00

mab = metres above bottom, si = sampling interval

Current statistics (low-passed data)

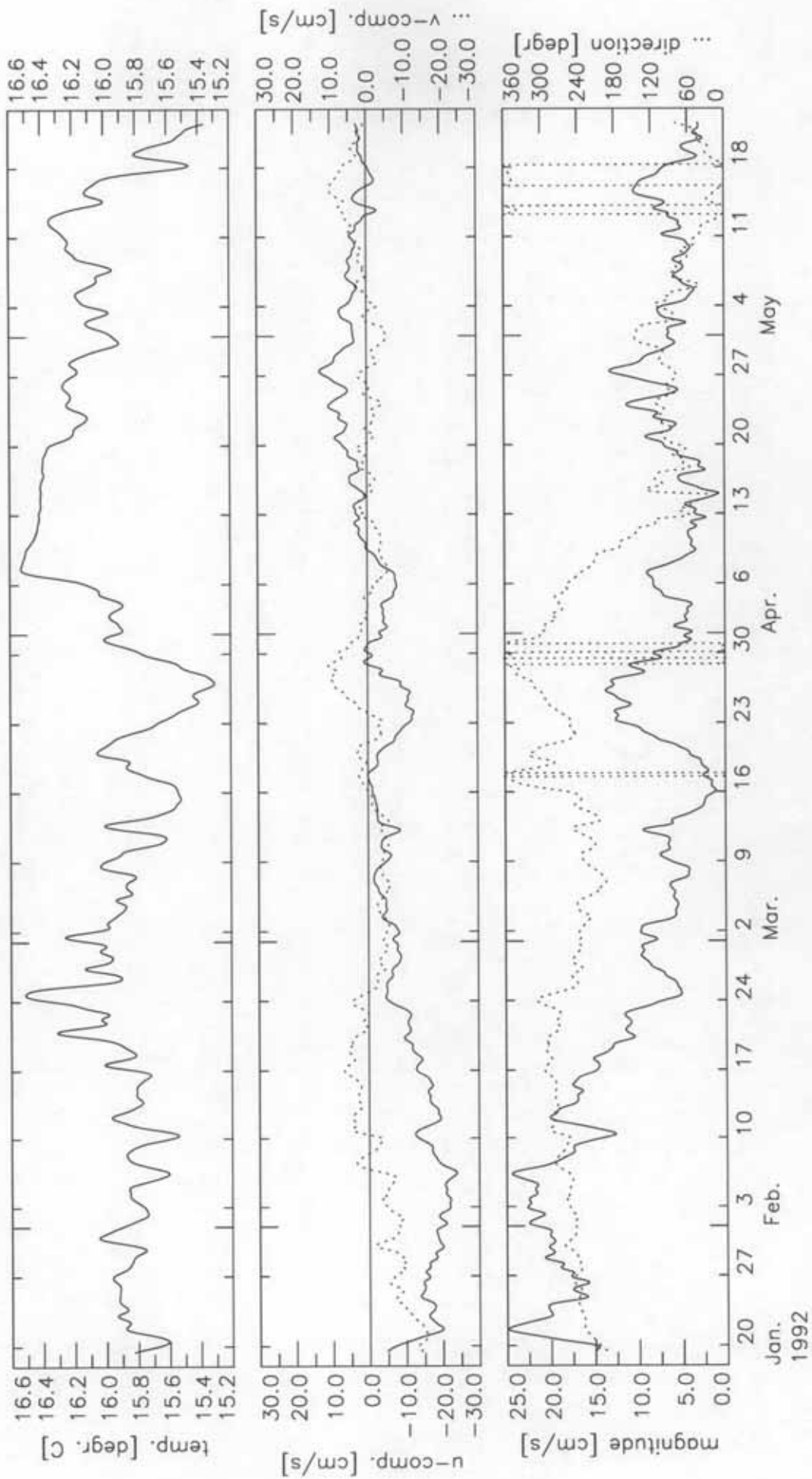
Id	sampl. depth	rec. length	\bar{u} \bar{v}	cm/s	mag v	cm/s	$\frac{\overline{u'u'}}{\overline{v'v'}}$	cm ² /s ²	$\overline{u'v'}$	cm ² /s ²	k_E k_M	cm ² /s ²	T_x T_y	days	L_x L_y	km	K_x K_y	cm ² /s ² × 10 ⁶	dir	°
M3:	169	124	-0.9 ± 0.14	-6.4 ± 0.21	11.7	6.5	29.5	66.5	16.7	48.0	21.0	48.0	6.9	17.4	32.3	122.3	17.6	99.8	188	



Time marks (x) are given every 720 hours

a92057; sd= 169 m; 18. 1.1992 10:30 - 23. 5.1992 13:00 (UTC)

M3, record no. = a92057, sampling depth = 169 m

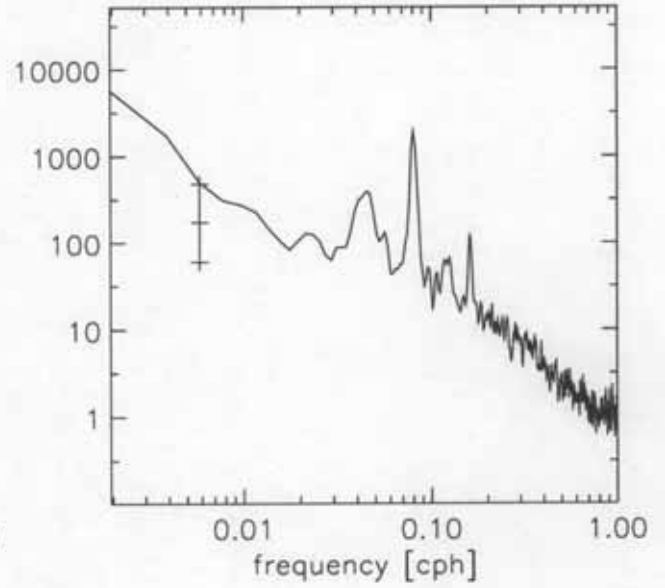
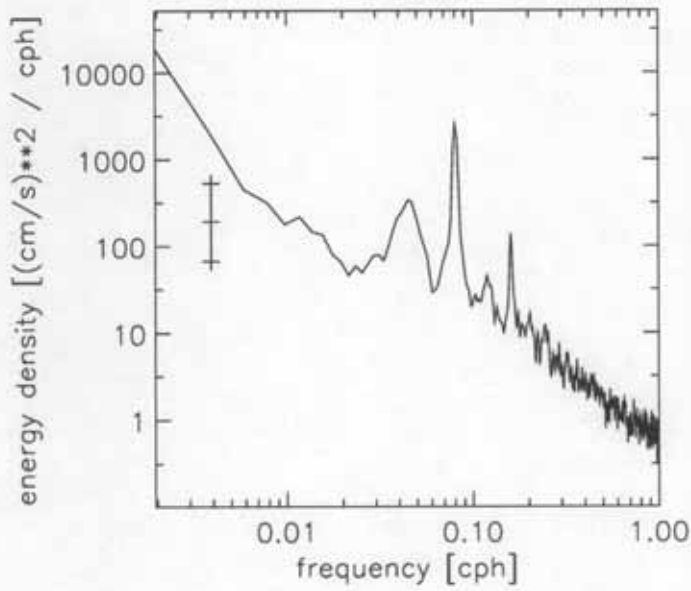


M3

record no: a92057, sampling interval = 30.0 minutes

u-component (zonal)

v-component (meridional)



Berichte des Bundesamtes für Seeschifffahrt und Hydrographie

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