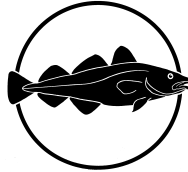


The Faroese Fisheries Laboratory

Fiskirannsóknarstovan



Nordic WOCE ADCP Deployments in Faroese Waters 2006 - 2007

By

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Introduction

This report documents eight ADCP deployments in Faroese waters in 2006 – 2007. Aanderaa Current Meters are included in two, and Microcat Conductivity and Temperature Recorder in one of the deployments. The deployments are listed in Table 1. Each deployment is identified by an 8-character label where the first four characters indicate the site (Fig. 1) while the last characters show year and month of deployment. The moorings were located at standard (Nordic WOCE) sites. At site NWSB the mooring broke loose and was recovered in March. There were, however, no data due to instrument failure.

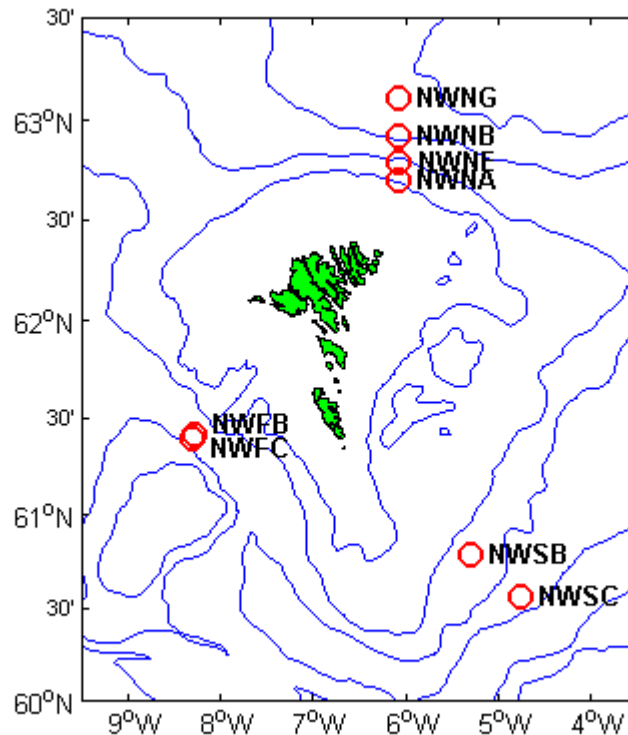


Figure 1. ADCP mooring sites in Faroese waters 2006-2007 superposed on a map with the bottom topography. Each site is indicated by a four-letter label.

At site NWFB, NWFC, NWNB, NWNG, NWSB, and NWSC, 75 kHz RDI Broadband ADCP's were placed in the top of single-point moorings. At site NWNA and NWNE, "shallow-water" rigs were used where a 150 kHz RDI Broadband ADCP was placed on the bottom inside a protective aluminium frame. For each deployment, the ADCP measures the velocity averaged over a number (15 – 27) of depth layers ("bins") which were 25m for all rigs except for the deployment NWNA where the depth layers were 10m. At 20 minute intervals, the ADCP records the data from all bins into "ensembles". In these deployments, each ensemble is based only upon one ping. At sites NWNG and NWSC, an Aanderaa current meter was on the mooring line below the ADCP. The Aanderaa current meters recorded speed, direction and temperature at 60 minute intervals. At deployment NWFB, a Microcat was attached to the ADCP. The Microcat recorded temperature, salinity, and pressure every 10 minutes. The salinity observations from the Microcat could not be used, due to instrumental malfunction.

Table 1. List of deployments with information on duration and range of valid data. All depths are in meters. The last column indicates for one deployment that one of the ADCP beams has been faulty and 3-beam computations have been used, and that for one deployment there were no data. It also indicates whether Aanderaa or Microcat instruments were on the mooring.

Deployment	Bottom depth	Int. min.	Valid data period	Dur. days	No bins	Depthrange	Comments
NWFB0606	812	20	2006 06 12-2007 05 19	341	27	121- 771	Microcat
NWFC0606	834	20	2006 06 12-2007 05 19	341	26	168- 793	
NWNA0606	304	20	2006 06 09-2007 05 18	343	25	47- 287	
NWNB0606	958	20	2006 06 09-2007 05 18	342	22	144- 669	
NWNE0606	462	20	2006 06 09-2007 05 18	343	15	81- 431	
NWNG0606	1808	20	2006 06 09-2007 05 18	342	22	80- 605	Aanderaa
NWSB0606	794	--	-----	---	--	-----	No data
NWSC0606	1070	20	2006 06 13-2007 05 20	341	23	66- 616	3-beam Aanderaa

Quality control and calibration

The ADCP data have been quality controlled by a standard procedure based upon consideration of ADCP performance (error velocity etc.) and data variation with time in relation to neighbouring bins (spikes). The editing has been done manually using an interactive graphical software package developed by the Faroese Fisheries Laboratory (FFL), based upon MATLAB. Generally, the series have been edited up to the level where about 50% of the observations were found to be valid. Bins above this level have not been included. The velocity direction has been corrected for magnetic deviation, by adding a constant as indicated in the header of the data file. The instrument depths are found using the data from the surface echo, except for the sites NWFB, NWFC and NWNA. The instrument depth at sites NWFC and NWNA are found from the echo sounding depth (corrected for change in sound velocity) and the length of the mooring line. The instrument depth at site NWFB is found from the Microcat pressure measurement.

The Aanderaa data have been calibrated using calibration coefficients from the manufacturer. In the Aanderaa current meter, several speed and compass readings are taken during a sampling interval, while the temperature and conductivity readings are taken once at the end of the interval only. At the end of the interval, the instrument stores a vector average of the velocity for the whole sampling interval, as well as the temperature and conductivity readings. In the data file, the time of each record is the middle of the speed-averaging interval. In the calibration procedure the velocity direction has been corrected for magnetic deviation, by adding a constant. The actual correction for each deployment is stored in the header of the data file. The data have been quality controlled by a standard procedure based upon data variation with time in relation to neighbouring values (spikes). The editing has been done manually using an interactive graphical software package developed by the Faroese Fisheries Laboratory (FFL), based upon MATLAB.

Data from the Microcat instrument have been quality controlled by a standard procedure based upon data variation with time in relation to neighbouring values (spikes). The editing has been done manually using an interactive graphical software package developed by the Faroese Fisheries Laboratory (FFL), based upon MATLAB.

Report format

For each deployment, the report contains several pages, beginning with a page that has a drawing of the mooring and details of the deployment. After that, there are some pages describing the ADCP data, beginning with a page with detailed error statistics for the deployment which indicates also how many “long” (i.e. several consecutive ensembles) error gaps are for each bin. On the next page there is for each bin listed the average speed (scalar average) and velocity magnitude and direction (vectorial average) as well as the fraction of “good” ensembles (in parts per thousand). This is followed by a frequency distribution of speeds for each bin which lists the frequency (in parts per thousand) of speeds (scalar) exceeding specified values. Then there are some pages listing tidal constituents. These pages contain five tables with data for the constituents M2, S2, N2, O1, and K1. Each table lists for each bin the amplitude and Greenwich phase lag for the east and north velocity components and lists also major and minor semi-axes of the tidal ellipse for the constituent as well as its inclination (Fig. 2) and sense of rotation (cyclonic = C, anticyclonic = A). The tidal constants were computed by an adapted version of the Foreman FORTRAN package.

The description of the Aanderaa current meter data includes first a text page listing metadata information in the header and showing the list of parameters in the data file with a tally of the number of records flagged and not flagged for error in each parameter. Any comments to the data are then listed. The rest of the text page describes features of the velocity observations in the series. First is shown the residual current, defined as the vectorial average of all non-flagged records. Next are shown the results of tidal analysis on the series. The number of records interpolated before the analysis is listed as well as the number that could not be interpolated (too large gap). Since both deployments have 60 minutes intervals, all analyses are performed on unfiltered data. 15 of the dominant constituents are listed and for each constituent, amplitude and Greenwich phase lag are shown for the east (E-ampl and E-gpl) and the north (N-ampl and N-gpl) velocity components respectively, followed by the characteristics of the tidal ellipse, its major and minor semi-axes, the inclination (Incl) of the ellipse, its Greenwich phase lag (Grphl), and whether it rotates cyclonically (C) or anticyclonically (A). The definitions of the tidal ellipse parameters are shown in Figure 2. The tidal constants were computed by an adapted version of the Foreman FORTRAN package. Finally, on the Aanderaa text page, is a table listing the directional current distribution as relative numbers of observations in parts per thousand. The table also lists for each direction interval, the relative flux, the average speed and the maximum speed. Then one page shows plots of the listed parameters as a function of time and one page shows the progressive vector diagram.

The Microcat data contain temperature, pressure and depth. The data are presented on one page, showing plots of temperature and depth time series.

On the following pages, the data descriptions from each deployment, except deployment NWSB0606, are presented in the same sequence as Table 1. For each deployment the ADCP data are presented first, followed by possible Aanderaa or Microcat data.

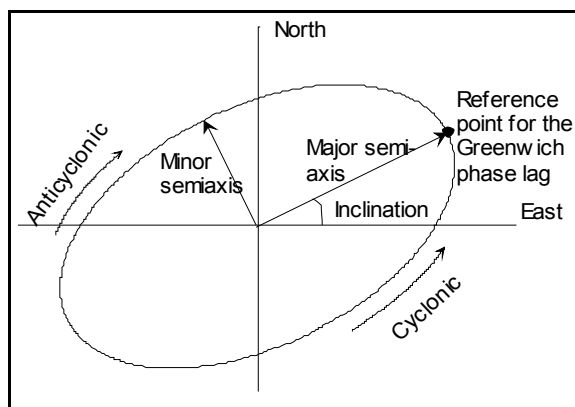


Figure 2. Parameters of the tidal ellipse for a given constituent. The reference point for the Greenwich phase lag is always chosen to be above the east-west axis.

Deployment Id: NWFB0606

Latitude: 61°25.051'N

Longitude: 008°17.244'W

Echo sounding depth: 823m

Bottom depth corr.: 812m

Time of deployment: 12/6 - 2006 0154UTC

Time of recovery: 19/5 - 2007 1702UTC

ADCP:

Instrument no.: RDI ADCP 1642

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 806m (corr.)

Time of first data: 12/6 - 2006 0240UTC

Time of last data: 19/05 - 2007 1640UTC

Sample interval: 20 min

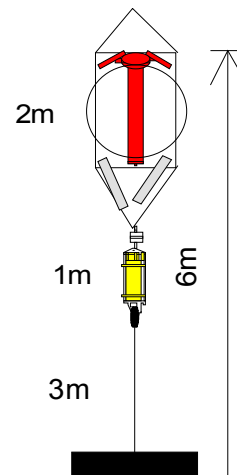
No. of ensembles: 24595

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 771m (corr.)

No. of bins: 27



MicroCat:

Instrument no.: 1993

Height above bottom: 5m

Time of first data: 12/6 - 2006 0220UTC

Time of last data: 19/05 - 2007 1700UTC

Sample interval: 10 min

No. of ensembles: 49193

Instrument depth: 807m

Data: The salinity observations from the MicroCat could not be used.
The temperature measurements from the ADCP could not be used.

NWFB0606 ADCP 1642

Error statistics for deployment: NWFB0606 updated 2007/10/25

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature data invalid due to instrument malfunction
 Velocity edited up to and including bin 27 by EJ in Jul 2007
 Intensity edited up to and including bin 27 by EM in Jun 2007

Total number of ensembles: 24595
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 27
 Number of acceptable intensity bins: 27

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 24595

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	2	69	0	61	4	0	0	0	0	0	0	0	0	0
2	4	22	0	22	0	0	0	0	0	0	0	0	0	0
3	0	13	0	13	0	0	0	0	0	0	0	0	0	0
4	0	21	0	21	0	0	0	0	0	0	0	0	0	0
5	0	24	0	18	3	0	0	0	0	0	0	0	0	0
6	0	44	0	32	6	0	0	0	0	0	0	0	0	0
7	0	98	0	82	6	0	1	0	0	0	0	0	0	0
8	0	237	1	190	15	3	2	0	0	0	0	0	0	0
9	0	447	2	380	29	3	0	0	0	0	0	0	0	0
10	0	611	2	481	47	12	0	0	0	0	0	0	0	0
11	0	484	2	369	47	7	0	0	0	0	0	0	0	0
12	0	337	1	292	15	5	0	0	0	0	0	0	0	0
13	0	277	1	229	21	2	0	0	0	0	0	0	0	0
14	0	208	1	179	10	3	0	0	0	0	0	0	0	0
15	0	147	1	132	6	1	0	0	0	0	0	0	0	0
16	0	150	1	132	9	0	0	0	0	0	0	0	0	0
17	0	172	1	137	13	3	0	0	0	0	0	0	0	0
18	0	235	1	193	13	2	1	1	0	0	0	0	0	0
19	1	324	1	244	20	9	3	0	0	0	0	0	0	0
20	0	448	2	329	47	7	1	0	0	0	0	0	0	0
21	2	536	2	382	51	13	2	1	0	0	0	0	0	0
22	0	618	3	448	56	14	4	0	0	0	0	0	0	0
23	1	667	3	514	52	11	4	0	0	0	0	0	0	0
24	3	899	4	690	66	20	3	1	0	0	0	0	0	0
25	4	2060	8	1358	209	55	18	4	4	0	0	0	0	0
26	0	5564	23	2374	704	221	111	48	49	4	1	0	0	0
27	2	11236	46	2381	1010	544	290	174	289	57	7	2	0	0

NWFB0606 ADCP 1642

Deployment: NWFB0606 updated 2007/10/25
 Instrument no.: 1642
 Instrument freq.: 75
 Latitude: 61 25.051 N
 Longitude: 08 17.244 W
 Bottom depth: 812
 Instrument depth: 806
 Center depth of first bin: 771
 Bin length: 25
 Number of bins: 27
 Number of first ensemble: 387
 Time of first ensemble: 2006 06 12 02 40
 Number of last ensemble: 24981
 Time of last ensemble: 2007 05 19 16 40
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -12.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	771	41	981	974	302	997
2	746	66	1052	1046	305	999
3	721	91	1079	1074	307	999
4	696	116	1087	1082	309	999
5	671	141	1081	1076	309	999
6	646	166	1057	1051	310	998
7	621	191	996	987	312	996
8	596	216	880	865	314	990
9	571	241	718	689	318	982
10	546	266	541	489	321	975
11	521	291	399	317	324	980
12	496	316	306	200	328	986
13	471	341	250	127	332	989
14	446	366	219	81	338	992
15	421	391	199	55	346	994
16	396	416	185	43	352	994
17	371	441	171	39	355	993
18	346	466	155	38	354	990
19	321	491	135	39	349	987
20	296	516	114	41	343	982
21	271	541	100	44	339	978
22	246	566	91	47	335	975
23	221	591	85	49	332	973
24	196	616	80	49	331	963
25	171	641	75	47	332	916
26	146	666	70	43	331	774
27	121	691	71	41	331	543

NWFB0606 ADCP 1642

Deployment: NWFB0606

Frequency of high speeds.

Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

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=====
Bin|Depth|
no.| m| 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180
-----
1| 771| 997 997 997 997 997 993 966 888 727 466 199 52 8 1 0 0 0 0
2| 746| 999 999 999 999 999 998 988 945 847 670 396 140 28 4 0 0 0 0
3| 721| 999 999 999 999 999 998 991 958 875 729 487 208 45 5 1 0 0 0
4| 696| 999 999 999 999 999 998 990 958 879 743 516 231 52 5 1 0 0 0
5| 671| 999 999 999 999 998 995 985 949 868 731 503 224 49 5 1 0 0 0
6| 646| 998 998 998 997 994 986 965 916 823 680 457 201 42 4 1 0 0 0
7| 621| 996 995 991 982 967 945 899 824 720 566 358 153 30 3 0 0 0 0
8| 596| 985 972 950 923 887 839 763 666 540 382 217 83 16 1 0 0 0 0
9| 571| 966 920 865 806 732 643 546 431 316 197 99 32 6 0 0 0 0 0
10| 546| 935 840 725 607 499 399 308 223 143 78 29 7 2 0 0 0 0 0
11| 521| 909 746 558 406 292 207 143 89 49 21 6 1 0 0 0 0 0 0
12| 496| 882 648 417 247 146 88 51 28 12 4 1 0 0 0 0 0 0 0
13| 471| 849 556 300 142 68 36 19 8 3 0 0 0 0 0 0 0 0 0
14| 446| 817 483 223 89 37 16 6 2 1 0 0 0 0 0 0 0 0 0
15| 421| 792 432 175 61 21 8 3 1 0 0 0 0 0 0 0 0 0 0
16| 396| 762 378 142 45 14 4 2 1 0 0 0 0 0 0 0 0 0 0
17| 371| 719 326 114 34 12 4 1 0 0 0 0 0 0 0 0 0 0 0
18| 346| 657 264 86 26 8 3 0 0 0 0 0 0 0 0 0 0 0 0
19| 321| 557 197 59 18 6 2 0 0 0 0 0 0 0 0 0 0 0 0
20| 296| 449 136 38 12 4 1 0 0 0 0 0 0 0 0 0 0 0 0
21| 271| 365 98 26 8 3 0 0 0 0 0 0 0 0 0 0 0 0 0
22| 246| 318 75 19 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0
23| 221| 281 63 15 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0
24| 196| 243 48 12 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0
25| 171| 197 38 10 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0
26| 146| 144 28 8 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0
27| 121| 105 25 9 3 2 1 0 0 0 0 0 0 0 0 0 0 0 0
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NWFB0606 ADCP 1642

Harmonic constants for constituent M2 for deployment NWFB0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	26	66	21	333	26	21	173	252	A
02	746	29	72	19	334	29	18	172	257	A
03	721	30	79	17	332	31	16	167	266	A
04	696	29	87	15	329	30	13	163	274	A
05	671	28	90	16	315	30	10	155	279	A
06	646	25	100	18	291	31	3	145	283	A
07	621	29	130	20	275	34	10	147	299	C
08	596	40	152	19	273	42	16	163	325	C
09	571	44	175	16	257	45	16	3	176	C
10	546	49	208	28	190	56	7	29	204	A
11	521	60	233	60	173	73	42	45	203	A
12	496	68	247	83	172	87	63	63	192	A
13	471	72	254	94	172	95	70	77	181	A
14	446	73	259	97	173	97	72	83	178	A
15	421	70	263	95	176	95	70	85	180	A
16	396	66	268	90	179	90	66	88	180	A
17	371	60	272	82	183	82	60	88	184	A
18	346	52	276	72	188	72	52	87	190	A
19	321	44	280	60	193	60	44	86	196	A
20	296	34	286	47	199	47	34	86	201	A
21	271	27	288	38	204	38	27	82	210	A
22	246	21	291	29	211	30	20	77	220	A
23	221	17	292	25	217	25	16	73	228	A
24	196	15	293	22	220	23	14	71	233	A
25	171	15	294	19	222	20	14	64	240	A
26	146	14	290	17	224	18	11	58	246	A
27	121	13	283	16	231	19	9	53	250	A

Harmonic constants for constituent S2 for deployment NWFB0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	9	94	4	30	9	4	13	89	A
02	746	11	103	4	39	11	4	11	100	A
03	721	10	102	3	39	10	3	10	99	A
04	696	8	98	3	357	8	3	176	279	A
05	671	6	98	4	302	7	1	149	284	A
06	646	4	120	5	298	6	0	131	299	C
07	621	6	172	6	310	8	3	139	334	C
08	596	9	204	6	307	9	6	162	11	C
09	571	8	242	7	276	10	3	43	258	C
10	546	10	300	16	238	17	8	69	249	A
11	521	20	316	30	233	31	20	82	238	A
12	496	28	310	40	227	40	27	82	233	A
13	471	30	300	42	217	42	29	81	224	A
14	446	29	291	40	213	41	28	74	224	A
15	421	26	287	35	214	37	24	69	228	A
16	396	22	289	32	219	33	20	69	232	A
17	371	20	294	28	223	30	18	70	236	A
18	346	17	297	25	226	26	15	70	239	A
19	321	15	298	21	229	22	13	69	242	A
20	296	11	300	18	230	18	10	72	241	A
21	271	8	301	14	231	14	7	75	238	A
22	246	6	302	10	242	11	5	72	250	A
23	221	5	306	9	252	10	4	69	261	A
24	196	4	327	9	259	9	4	78	264	A
25	171	3	333	9	266	9	3	80	269	A
26	146	5	324	8	275	8	3	66	284	A
27	121	6	322	7	265	8	4	51	288	A

NWFB0606 ADCP 1642

Harmonic constants for constituent N2 for deployment NWFB0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	8	59	7	300	10	6	141	264	A
02	746	10	53	7	298	11	6	156	247	A
03	721	11	51	7	294	12	6	159	242	A
04	696	11	61	6	289	12	4	159	248	A
05	671	9	73	4	271	10	1	159	255	A
06	646	8	89	4	233	8	2	158	263	C
07	621	11	106	5	242	12	3	160	280	C
08	596	15	109	9	272	17	2	150	285	C
09	571	17	118	9	299	20	0	153	298	A
10	546	16	146	6	338	17	1	161	327	A
11	521	16	179	7	102	16	7	7	176	A
12	496	17	198	12	130	18	11	24	184	A
13	471	14	214	16	146	18	12	52	173	A
14	446	14	233	18	155	19	13	73	167	A
15	421	14	250	21	163	21	14	87	164	A
16	396	14	255	21	167	21	14	88	168	A
17	371	15	255	21	166	21	15	89	167	A
18	346	15	255	19	166	19	15	87	168	A
19	321	13	253	16	168	16	12	80	176	A
20	296	9	250	12	177	13	8	67	193	A
21	271	7	257	9	179	9	7	70	193	A
22	246	6	256	7	178	7	5	68	195	A
23	221	4	247	7	180	7	4	68	193	A
24	196	4	255	6	186	6	3	74	194	A
25	171	3	269	5	192	5	3	80	197	A
26	146	4	301	5	210	5	4	91	210	A
27	121	3	313	4	217	4	3	103	207	A

Harmonic constants for constituent O1 for deployment NWFB0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	16	327	7	140	18	1	157	146	C
02	746	18	325	8	135	19	1	157	144	C
03	721	20	325	8	140	21	1	157	144	C
04	696	20	328	9	132	22	2	156	145	C
05	671	21	329	10	137	23	2	154	146	C
06	646	24	332	11	141	26	2	156	150	C
07	621	31	337	14	143	34	3	156	155	C
08	596	37	341	21	154	43	2	150	159	C
09	571	39	342	28	158	48	1	144	160	C
10	546	30	346	30	165	43	0	135	165	C
11	521	22	355	26	172	34	1	130	173	C
12	496	19	7	22	180	29	2	131	183	C
13	471	17	9	20	184	26	1	131	186	C
14	446	15	11	18	191	24	0	130	191	A
15	421	13	10	17	194	22	1	128	192	A
16	396	12	11	15	192	19	0	127	192	A
17	371	10	13	13	191	16	0	126	192	C
18	346	8	12	11	194	14	0	126	193	A
19	321	7	14	9	195	12	0	128	195	A
20	296	6	11	8	200	10	1	128	197	A
21	271	5	358	7	204	9	2	128	194	A
22	246	4	343	5	201	6	2	131	184	A
23	221	4	332	5	202	5	2	126	184	A
24	196	3	327	3	196	4	2	126	178	A
25	171	2	344	3	186	4	1	126	178	A
26	146	3	322	3	186	4	1	130	167	A
27	121	3	325	2	231	3	2	177	147	A

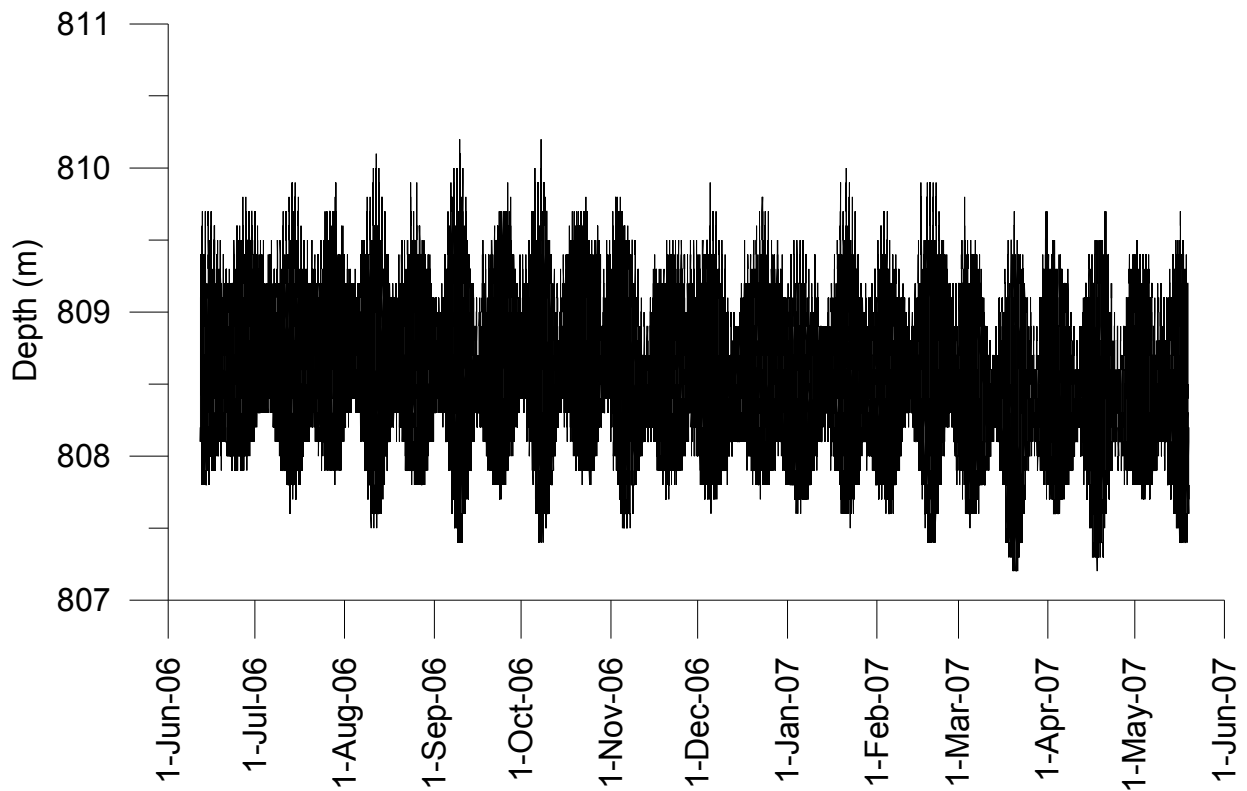
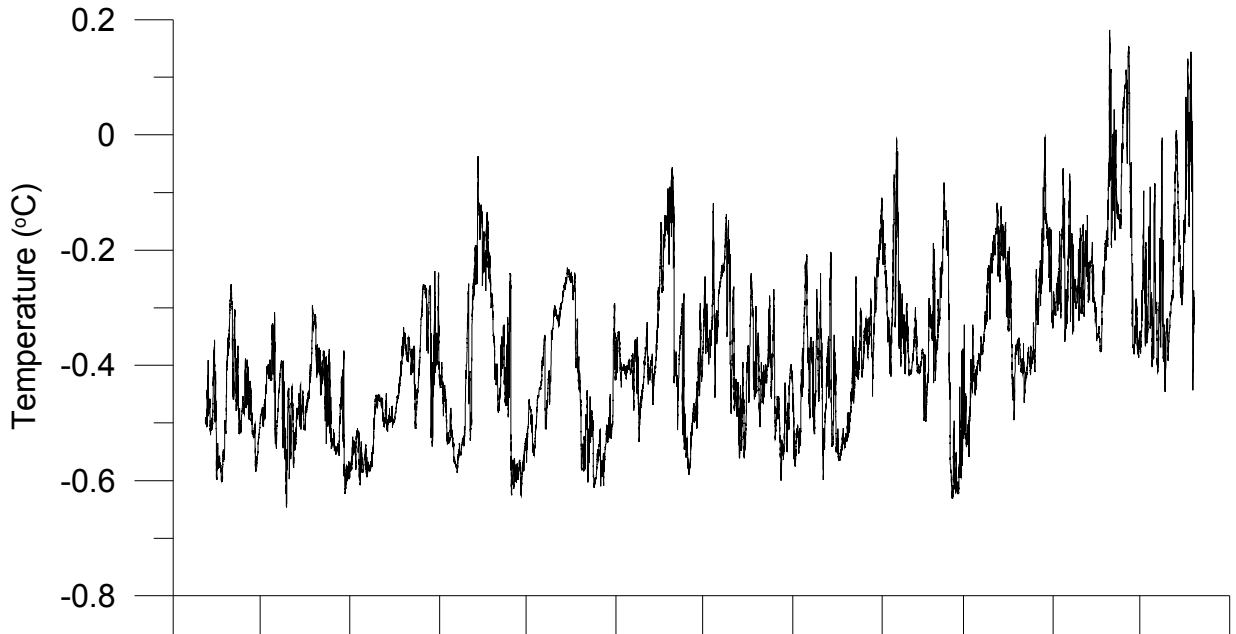
NWFB0606 ADCP 1642

Harmonic constants for constituent K1 for deployment NWFB0606.

Bin	Depth m	E-ampl mm/sec	E-gph deg	N-ampl mm/sec	N-gph deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	16	225	7	38	18	1	156	44	C
02	746	19	226	9	37	21	1	155	44	C
03	721	18	221	11	41	21	0	150	41	C
04	696	18	223	11	39	21	1	148	42	C
05	671	18	229	12	41	21	1	147	47	C
06	646	20	235	11	47	23	1	151	53	C
07	621	27	238	14	54	30	1	153	57	C
08	596	33	240	20	59	39	0	149	60	C
09	571	34	241	27	58	44	1	141	60	C
10	546	29	248	29	60	41	3	135	64	C
11	521	24	259	26	65	35	4	132	71	C
12	496	18	264	23	68	29	4	128	74	C
13	471	13	278	20	71	23	5	123	79	C
14	446	11	303	18	75	20	7	115	85	C
15	421	11	313	17	71	18	9	112	83	C
16	396	9	317	17	66	17	9	104	73	C
17	371	7	325	16	66	16	7	96	68	C
18	346	6	326	13	62	13	6	94	63	C
19	321	7	319	11	62	11	7	102	69	C
20	296	7	318	10	64	10	7	113	80	C
21	271	8	315	8	55	9	7	120	80	C
22	246	6	307	6	47	7	6	124	76	C
23	221	4	301	5	49	5	4	123	74	C
24	196	3	283	4	44	5	3	120	61	C
25	171	3	254	4	39	5	1	119	48	C
26	146	2	248	3	52	4	0	119	56	C
27	121	4	261	2	59	4	1	148	75	C

NWFB0606 MicroCat 1993

The salinity observations from the MicroCat could not be used.



Deployment Id: NWFC0606

Latitude: 61°23.427'N

Longitude: 008°18.941'W

Echo sounding depth: 843m

Bottom depth corr.: 834m

Time of deployment: 12/06 - 2006 0216UTC

Time of recovery: 19/5 - 2007 1549UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 828m (corr.)

Time of first data: 12/06 - 2006 0240UTC

Time of last data: 19/05 - 2007 1520UTC

Sample interval: 20 min

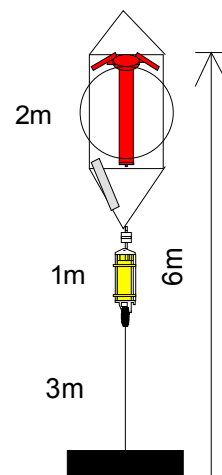
No. of ensembles: 24591

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 793m (corr.)

No. of bins: 26



Data: All data ok.

NWFC0606 ADCP 1285

Error statistics for deployment: NWFC0606 updated 2007/08/09

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2007
 Velocity edited up to and including bin 26 by EJ in Jul 2007
 Intensity edited up to and including bin 26 by EM in Jun 2007

Total number of ensembles: 24591
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 26
 Number of acceptable intensity bins: 26

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 27

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	62	0	60	1	0	0	0	0	0	0	0	0	0
2	0	47	0	47	0	0	0	0	0	0	0	0	0	0
3	0	110	0	89	6	1	0	0	1	0	0	0	0	0
4	0	306	1	252	27	0	0	0	0	0	0	0	0	0
5	0	690	3	518	64	9	1	1	1	0	0	0	0	0
6	0	1066	4	775	94	23	4	2	1	0	0	0	0	0
7	0	1492	6	1047	151	30	7	5	0	0	0	0	0	0
8	0	1608	7	1178	147	31	8	1	1	0	0	0	0	0
9	0	1462	6	1029	159	28	5	1	1	0	0	0	0	0
10	0	1045	4	759	96	17	8	1	1	0	0	0	0	0
11	0	633	3	446	68	12	1	1	1	0	0	0	0	0
12	0	469	2	341	39	8	4	2	0	0	0	0	0	0
13	1	389	2	276	26	12	4	0	1	0	0	0	0	0
14	0	364	1	234	32	11	7	1	0	0	0	0	0	0
15	0	303	1	198	30	6	3	3	0	0	0	0	0	0
16	0	237	1	177	15	4	2	2	0	0	0	0	0	0
17	0	198	1	148	16	3	1	1	0	0	0	0	0	0
18	0	332	1	152	41	8	0	5	4	1	0	0	0	0
19	0	796	3	263	44	21	10	3	15	13	1	0	0	0
20	0	1684	7	451	91	39	26	11	19	19	15	0	0	0
21	3	3375	14	640	186	73	35	39	82	57	15	2	0	0
22	3	5500	22	826	264	130	69	51	133	73	35	7	0	0
23	3	7480	30	995	331	127	80	67	174	96	50	19	3	3
24	4	9359	38	1115	398	180	103	78	207	127	37	37	5	5
25	5	11228	46	1254	382	217	99	79	208	132	61	38	17	17
26	8	13598	55	1212	412	208	137	88	203	144	68	59	29	29

NWFC0606 ADCP 1285

Deployment: NWFC0606 updated 2007/08/09
Instrument no.: 1285
Instrument freq.: 75
Latitude: 61 23.427 N
Longitude: 08 18.941 W
Bottom depth: 834
Instrument depth: 828
Center depth of first bin: 793
Bin length: 25
Number of bins: 26
Number of first ensemble: 387
Time of first ensemble: 2006 06 12 02 40
Number of last ensemble: 24977
Time of last ensemble: 2007 05 19 15 20
Time between ensembles (min.): 20
All directions have been corrected by adding: -12.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	793	41	1025	1020	295	997
2	768	66	1097	1093	298	998
3	743	91	1102	1098	300	996
4	718	116	1082	1078	302	988
5	693	141	1037	1033	302	972
6	668	166	931	923	302	957
7	643	191	750	722	304	939
8	618	216	546	463	307	935
9	593	241	385	236	313	941
10	568	266	287	90	331	958
11	543	291	237	39	41	974
12	518	316	215	61	89	981
13	493	341	205	79	99	984
14	468	366	200	87	104	985
15	443	391	198	90	107	988
16	418	416	197	89	109	990
17	393	441	197	88	111	992
18	368	466	196	86	113	986
19	343	491	195	85	113	968
20	318	516	196	83	114	932
21	293	541	197	83	114	863
22	268	566	199	82	115	776
23	243	591	200	81	115	696
24	218	616	202	82	116	619
25	193	641	203	81	117	543
26	168	666	201	81	122	447

NWFC0606 ADCP 1285

Deployment: NWFC0606

Frequency of high speeds.

Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

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Bin Depth	Speed (cm/s)																	
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 793	997	997	997	996	995	989	969	903	775	582	346	139	36	5	0	0	0	0
2 768	998	997	997	996	996	993	984	958	883	739	531	279	90	15	1	0	0	0
3 743	995	995	995	994	993	990	981	955	882	749	546	289	94	16	2	0	0	0
4 718	987	986	986	985	983	978	962	929	845	710	497	250	78	13	1	0	0	0
5 693	971	970	967	961	951	936	910	856	755	606	416	216	72	12	2	0	0	0
6 668	951	938	920	897	869	832	774	689	573	445	305	163	62	14	2	1	0	0
7 643	914	859	802	746	686	621	545	457	366	270	173	93	37	10	1	0	0	0
8 618	875	749	633	539	462	388	317	249	181	119	69	35	15	4	1	0	0	0
9 593	848	655	478	350	262	194	141	97	63	39	21	9	3	1	0	0	0	0
10 568	837	582	349	201	118	74	49	30	18	10	4	2	1	0	0	0	0	0
11 543	825	515	259	119	54	28	15	8	4	2	1	0	0	0	0	0	0	0
12 518	811	479	210	76	26	10	4	2	1	1	0	0	0	0	0	0	0	0
13 493	802	454	187	61	18	5	1	0	0	0	0	0	0	0	0	0	0	0
14 468	794	437	177	56	17	4	1	0	0	0	0	0	0	0	0	0	0	0
15 443	793	433	172	51	15	4	0	0	0	0	0	0	0	0	0	0	0	0
16 418	791	429	167	51	17	4	0	0	0	0	0	0	0	0	0	0	0	0
17 393	792	426	167	52	16	4	0	0	0	0	0	0	0	0	0	0	0	0
18 368	784	422	164	50	16	5	1	0	0	0	0	0	0	0	0	0	0	0
19 343	768	408	158	49	16	5	1	0	0	0	0	0	0	0	0	0	0	0
20 318	743	393	154	50	16	5	1	0	0	0	0	0	0	0	0	0	0	0
21 293	689	368	146	48	16	6	2	0	0	0	0	0	0	0	0	0	0	0
22 268	622	335	134	45	16	6	2	0	0	0	0	0	0	0	0	0	0	0
23 243	557	302	121	42	14	4	2	0	0	0	0	0	0	0	0	0	0	0
24 218	499	275	112	37	14	3	1	0	0	0	0	0	0	0	0	0	0	0
25 193	443	243	99	35	11	4	1	0	0	0	0	0	0	0	0	0	0	0
26 168	361	196	79	28	10	3	1	0	0	0	0	0	0	0	0	0	0	0

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NWFC0606 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	11	109	7	285	13	0	150	288	C
02	768	14	103	8	275	16	1	151	281	C
03	743	16	101	11	273	19	1	144	278	C
04	718	17	94	16	287	23	3	136	280	A
05	693	23	95	25	302	33	8	133	290	A
06	668	41	114	37	314	54	10	138	303	A
07	643	72	125	44	325	83	13	149	310	A
08	618	82	136	29	337	86	10	162	318	A
09	593	59	158	7	120	59	4	5	157	A
10	568	45	200	40	150	55	25	41	178	A
11	543	49	232	62	156	65	46	67	173	A
12	518	54	249	73	162	73	54	85	166	A
13	493	57	262	78	169	78	57	94	166	A
14	468	59	270	81	175	81	58	98	170	A
15	443	60	277	84	181	84	59	99	175	A
16	418	62	284	87	187	87	61	100	180	A
17	393	65	289	90	191	91	64	101	183	A
18	368	67	293	93	194	94	66	102	186	A
19	343	69	296	95	197	96	67	104	187	A
20	318	71	299	97	198	99	68	105	188	A
21	293	74	300	98	200	100	71	106	188	A
22	268	72	302	98	202	100	70	105	191	A
23	243	72	304	100	203	101	70	104	193	A
24	218	73	307	100	205	102	69	107	194	A
25	193	74	310	98	206	101	70	109	193	A
26	168	68	313	100	210	102	65	105	200	A

Harmonic constants for constituent S2 for deployment NWFC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	2	132	1	244	2	1	160	300	C
02	768	4	158	1	238	4	1	2	158	C
03	743	5	141	2	316	5	0	160	320	C
04	718	5	127	4	351	6	2	148	320	A
05	693	7	153	8	4	10	3	131	351	A
06	668	18	162	11	10	20	4	150	349	A
07	643	28	160	12	3	30	4	158	344	A
08	618	23	171	5	351	24	0	167	351	C
09	593	11	206	8	220	14	2	37	211	C
10	568	10	283	20	214	21	9	78	219	A
11	543	15	309	27	214	27	15	94	211	A
12	518	19	311	31	215	31	19	97	210	A
13	493	22	306	31	218	31	22	88	220	A
14	468	22	306	33	220	33	22	85	224	A
15	443	21	308	33	223	33	21	86	225	A
16	418	22	313	35	223	35	22	90	223	A
17	393	21	319	35	226	35	21	92	225	A
18	368	21	322	34	227	34	21	95	224	A
19	343	21	325	33	231	33	20	94	228	A
20	318	21	328	31	232	31	20	97	227	A
21	293	21	334	30	236	30	20	100	229	A
22	268	19	333	27	239	27	19	97	234	A
23	243	19	334	27	242	27	19	93	239	A
24	218	17	347	25	243	26	16	105	234	A
25	193	19	355	26	253	26	18	106	242	A
26	168	13	358	27	264	27	13	92	263	A

NWFC0606 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	6	66	3	267	7	1	153	251	A
02	768	7	68	4	243	8	0	154	247	C
03	743	8	69	4	239	9	1	150	246	C
04	718	7	69	5	241	9	1	142	246	C
05	693	5	68	7	249	9	0	128	248	A
06	668	7	59	9	253	11	1	128	247	A
07	643	11	90	13	292	17	3	130	283	A
08	618	23	104	17	316	28	8	144	295	A
09	593	22	117	10	346	23	7	161	303	A
10	568	13	148	6	66	13	6	4	146	A
11	543	11	188	11	116	12	9	47	150	A
12	518	12	209	15	127	15	12	73	140	A
13	493	13	219	16	134	16	13	74	148	A
14	468	13	233	18	143	18	13	89	144	A
15	443	14	251	20	153	20	14	100	146	A
16	418	16	262	21	159	21	15	108	146	A
17	393	16	269	21	164	22	15	111	150	A
18	368	16	275	21	171	21	15	110	158	A
19	343	17	276	21	173	22	16	111	157	A
20	318	17	280	22	177	23	16	113	160	A
21	293	20	279	23	179	24	19	114	160	A
22	268	22	277	24	174	26	20	121	149	A
23	243	17	274	25	184	25	17	90	183	A
24	218	13	284	24	183	24	12	98	179	A
25	193	12	284	22	189	22	12	94	186	A
26	168	12	296	22	196	22	12	98	191	A

Harmonic constants for constituent O1 for deployment NWFC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	13	352	8	163	15	1	147	170	C
02	768	14	347	8	163	16	0	148	166	C
03	743	15	344	9	165	17	0	150	164	A
04	718	17	347	11	172	20	1	147	169	A
05	693	21	352	16	175	26	1	143	173	A
06	668	33	353	24	177	41	1	143	175	A
07	643	45	350	31	179	54	4	146	173	A
08	618	44	349	30	178	53	4	145	172	A
09	593	35	356	25	184	43	3	145	178	A
10	568	27	6	21	189	34	1	142	187	A
11	543	22	6	17	186	28	0	141	186	A
12	518	19	5	16	188	25	1	140	187	A
13	493	17	4	15	193	23	2	139	188	A
14	468	15	5	14	197	21	2	138	191	A
15	443	15	8	14	196	21	1	138	192	A
16	418	15	9	14	195	20	1	137	192	A
17	393	14	7	14	192	20	1	135	189	A
18	368	14	3	14	191	20	1	135	187	A
19	343	14	2	13	189	19	1	137	185	A
20	318	14	360	13	185	19	1	138	182	A
21	293	16	8	13	187	20	0	141	188	C
22	268	17	358	15	189	23	2	138	183	A
23	243	17	2	15	196	23	3	139	188	A
24	218	17	4	16	200	23	3	137	191	A
25	193	15	4	14	200	20	3	135	192	A
26	168	14	18	12	209	18	2	138	203	A

NWFC0606 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	13	241	9	41	15	3	144	54	C
02	768	14	235	10	39	17	2	143	49	C
03	743	13	237	11	42	17	2	141	51	C
04	718	13	245	13	51	18	2	136	59	C
05	693	17	260	17	61	24	4	134	70	C
06	668	28	262	22	70	36	4	142	77	C
07	643	39	255	27	70	48	2	145	73	C
08	618	41	253	27	68	49	2	147	72	C
09	593	34	255	23	71	41	1	145	74	C
10	568	27	265	21	76	34	3	142	82	C
11	543	23	267	19	79	29	2	140	83	C
12	518	18	270	18	77	25	3	136	84	C
13	493	16	281	16	76	23	5	135	88	C
14	468	15	289	17	75	21	7	131	90	C
15	443	14	299	17	73	21	9	128	91	C
16	418	14	297	19	72	23	9	124	86	C
17	393	14	293	21	69	23	9	120	81	C
18	368	13	293	21	70	23	8	119	81	C
19	343	13	291	20	69	22	8	119	80	C
20	318	11	294	18	63	20	8	116	74	C
21	293	13	286	17	66	21	7	125	80	C
22	268	14	296	17	70	20	8	126	87	C
23	243	9	308	14	71	15	7	116	84	C
24	218	7	320	10	49	10	7	88	48	C
25	193	6	310	7	60	7	5	122	83	C
26	168	12	279	8	77	14	3	147	93	C

Deployment Id: Nwana0606

Latitude: 62°42.307'N

Longitude: 006°04.697'W

Echo sound depth: 305m

Bottom depth corr.: 304m

Time of deployment: 09/06 - 2006 0500UTC

Time of recovery: 18/05 - 2007 0931UTC

ADCP:

Instrument no.: RDI ADCP 1279

Instrument frequency: 150kHz

Height above bottom: 1m

Depth: 303m (corr.)

Time of first data: 09/06 - 2006 0520UTC

Time of last data: 18/05 - 2007 0920UTC

Sample interval: 20 min

No. of ensembles: 24709

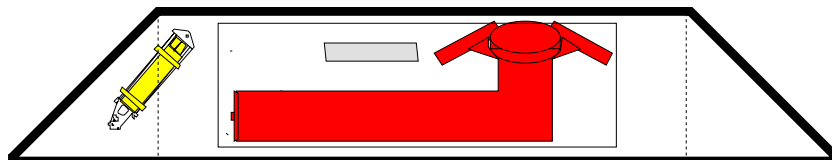
Pings per ens.: 1

Binlength: 10 m

Depth of first bin: 287m (corr.)

No. of bins: 25

Data: All data ok.



NWNA0606 ADCP 1279

Error statistics for deployment: NWNA0606 updated 2007/08/09

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2007
 Velocity edited up to and including bin 25 by EJ in Jul 2007
 Intensity edited up to and including bin 25 by EM in Jul 2007

Total number of ensembles: 24709
 Interval between ensembles: 20 min
 Original number of bins: 30
 Number of acceptable velocity bins: 25
 Number of acceptable intensity bins: 25

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 0

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	6	1734	7	1369	143	23	1	1	0	0	0	0	0
2	3	1872	8	1409	173	29	6	0	1	0	0	0	0
3	0	1673	7	1253	170	16	8	0	0	0	0	0	0
4	0	1488	6	1130	133	21	6	1	0	0	0	0	0
5	0	1325	5	1063	102	16	1	0	1	0	0	0	0
6	0	1275	5	1031	92	10	5	2	0	0	0	0	0
7	0	1148	5	870	86	24	4	2	1	0	0	0	0
8	0	1031	4	824	86	9	2	0	0	0	0	0	0
9	0	993	4	779	82	12	2	0	1	0	0	0	0
10	0	957	4	751	78	9	3	1	1	0	0	0	0
11	0	997	4	739	93	14	6	0	1	0	0	0	0
12	0	906	4	674	78	12	6	2	1	0	0	0	0
13	0	819	3	604	71	12	4	3	1	0	0	0	0
14	1	947	4	677	66	18	7	4	5	0	0	0	0
15	0	1083	4	674	84	30	12	5	9	1	0	0	0
16	2	1397	6	723	95	39	20	9	22	5	1	0	0
17	0	1772	7	763	116	42	25	22	35	11	1	0	0
18	1	2317	9	852	137	67	24	23	36	23	7	0	0
19	0	3141	13	994	188	70	39	29	61	27	13	2	1
20	1	4135	17	1097	254	103	54	30	82	40	16	3	2
21	0	5394	22	1270	290	136	80	54	85	65	19	6	3
22	2	6757	27	1366	396	144	74	54	103	70	30	14	8
23	0	8451	34	1339	424	179	96	65	117	74	33	28	16
24	0	10253	41	1283	409	204	146	64	122	69	42	39	21
25	0	11868	48	1260	430	207	124	57	127	58	36	54	40

NWNA0606 ADCP 1279

Deployment: NWNA0606 updated 2007/08/09
Instrument no.: 1279
Instrument freq.: 150
Latitude: 62 42.307 N
Longitude: 06 04.697 W
Bottom depth: 304
Instrument depth: 303
Center depth of first bin: 287
Bin length: 10
Number of bins: 25
Number of first ensemble: 179
Time of first ensemble: 2006 06 09 05 20
Number of last ensemble: 24887
Time of last ensemble: 2007 05 18 09 20
Time between ensembles (min.): 20
All directions have been corrected by adding: -12.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	287	17	203	123	97	930
2	277	27	215	121	100	924
3	267	37	226	122	103	932
4	257	47	235	131	105	940
5	247	57	240	139	107	946
6	237	67	242	145	108	948
7	227	77	243	151	108	954
8	217	87	244	156	108	958
9	207	97	242	160	108	960
10	197	107	242	164	108	961
11	187	117	241	167	108	960
12	177	127	241	170	108	963
13	167	137	242	174	108	967
14	157	147	243	177	108	962
15	147	157	244	179	108	956
16	137	167	246	182	108	943
17	127	177	249	184	108	928
18	117	187	253	187	108	906
19	107	197	258	192	108	873
20	97	207	262	194	108	833
21	87	217	269	198	109	782
22	77	227	279	204	109	727
23	67	237	287	207	109	658
24	57	247	296	209	109	585
25	47	257	306	204	108	520

NWNA0606 ADCP 1279

Deployment: NWNA0606

Frequency of high speeds.

Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

```

=====
Bin|Depth|
no.|  m|  10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
-----
 1| 287| 744 424 180  61  17  4  1  0  0  0  0  0  0  0  0  0  0  0
 2| 277| 757 448 207  78  26  8  2  0  0  0  0  0  0  0  0  0  0  0
 3| 267| 784 480 240  96  33 10  2  0  0  0  0  0  0  0  0  0  0  0
 4| 257| 807 514 262 107 38 13  3  1  0  0  0  0  0  0  0  0  0  0
 5| 247| 817 529 277 118 41 13  3  1  0  0  0  0  0  0  0  0  0  0
 6| 237| 822 537 285 124 44 14  4  1  0  0  0  0  0  0  0  0  0  0
 7| 227| 824 538 290 128 46 15  4  1  0  0  0  0  0  0  0  0  0  0
 8| 217| 827 538 293 132 48 15  4  1  0  0  0  0  0  0  0  0  0  0
 9| 207| 822 532 295 129 49 15  4  1  0  0  0  0  0  0  0  0  0  0
10| 197| 820 533 296 132 51 16  4  1  0  0  0  0  0  0  0  0  0  0
11| 187| 812 524 294 132 50 16  4  1  0  0  0  0  0  0  0  0  0  0
12| 177| 813 526 296 134 54 18  5  1  1  0  0  0  0  0  0  0  0  0
13| 167| 814 527 301 139 55 18  5  1  1  0  0  0  0  0  0  0  0  0
14| 157| 808 529 302 140 54 18  6  2  0  0  0  0  0  0  0  0  0  0
15| 147| 801 532 302 140 57 19  6  2  1  0  0  0  0  0  0  0  0  0
16| 137| 795 528 304 142 58 20  6  2  1  0  0  0  0  0  0  0  0  0
17| 127| 786 526 305 143 58 20  7  2  1  0  0  0  0  0  0  0  0  0
18| 117| 774 523 304 146 62 22  8  3  1  0  0  0  0  0  0  0  0  0
19| 107| 751 518 305 148 63 24  9  3  1  0  0  0  0  0  0  0  0  0
20|  97| 721 501 296 149 63 24  9  3  1  1  0  0  0  0  0  0  0  0
21|  87| 684 483 289 144 65 27 11  4  2  1  1  0  0  0  0  0  0  0
22|  77| 645 464 283 147 70 31 13  6  3  2  1  1  0  0  0  0  0  0
23|  67| 588 428 267 143 71 34 15  8  4  2  1  1  1  0  0  0  0  0
24|  57| 525 387 246 137 70 35 18 10  5  4  3  2  1  1  0  0  0  0
25|  47| 468 351 227 130 67 35 19 11  7  5  3  2  2  1  1  0  0  0
-----

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NWNA0606 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	287	137	293	96	175	148	78	154	128	A
02	277	148	293	112	176	162	92	151	130	A
03	267	159	292	124	178	173	103	151	131	A
04	257	170	292	132	178	184	111	151	131	A
05	247	174	294	136	181	188	117	152	132	A
06	237	176	295	136	184	188	118	153	133	A
07	227	177	297	134	186	188	118	154	133	A
08	217	177	299	131	188	187	117	156	134	A
09	207	175	300	127	191	184	114	157	135	A
10	197	174	303	124	193	183	111	158	137	A
11	187	172	305	120	195	180	108	159	138	A
12	177	171	306	116	197	178	106	160	138	A
13	167	170	308	112	199	175	103	162	139	A
14	157	167	310	109	201	173	100	162	140	A
15	147	165	311	106	204	170	99	163	141	A
16	137	163	313	104	205	167	96	164	142	A
17	127	161	314	101	207	165	95	165	143	A
18	117	160	315	98	209	163	92	166	143	A
19	107	156	317	96	210	159	90	165	146	A
20	97	156	319	93	213	159	87	166	146	A
21	87	155	320	91	215	157	87	168	147	A
22	77	155	321	87	218	156	84	170	147	A
23	67	153	323	81	221	154	79	171	148	A
24	57	154	325	83	228	155	82	174	148	A
25	47	159	327	88	232	160	87	177	148	A

Harmonic constants for constituent S2 for deployment NWNA0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	287	48	336	35	217	53	28	152	172	A
02	277	49	332	42	221	53	35	147	176	A
03	267	53	331	47	222	58	41	146	176	A
04	257	58	333	48	222	63	41	148	175	A
05	247	62	334	47	220	67	40	152	172	A
06	237	65	338	48	222	70	40	153	174	A
07	227	66	340	49	224	71	41	153	176	A
08	217	69	341	48	225	74	41	155	175	A
09	207	69	342	48	229	73	41	157	175	A
10	197	70	343	46	231	73	41	159	176	A
11	187	69	345	45	232	72	40	160	176	A
12	177	68	347	42	234	71	38	161	177	A
13	167	67	349	40	238	70	36	163	178	A
14	157	66	350	39	241	68	36	164	179	A
15	147	66	353	38	243	68	35	165	180	A
16	137	65	353	37	246	67	35	167	180	A
17	127	64	355	36	246	65	33	166	182	A
18	117	64	356	36	247	66	33	166	184	A
19	107	64	357	35	249	65	32	168	183	A
20	97	60	356	34	251	61	32	168	182	A
21	87	58	358	32	252	59	30	169	183	A
22	77	58	1	33	256	59	31	169	187	A
23	67	56	2	33	259	57	32	169	188	A
24	57	55	3	33	262	55	32	171	188	A
25	47	55	6	35	262	56	34	166	195	A

NWNA0606 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	287	31	259	20	141	32	16	157	91	A
02	277	30	262	22	134	34	16	148	98	A
03	267	31	263	23	132	36	15	146	99	A
04	257	31	259	24	131	36	17	146	96	A
05	247	29	261	23	134	34	16	146	99	A
06	237	30	264	22	136	34	15	148	99	A
07	227	30	267	22	143	33	17	149	104	A
08	217	31	268	21	150	33	18	155	102	A
09	207	31	272	22	155	34	18	155	106	A
10	197	33	275	22	159	35	19	156	108	A
11	187	34	278	22	161	36	19	157	111	A
12	177	35	281	23	166	37	20	157	114	A
13	167	36	284	23	169	38	20	160	115	A
14	157	38	286	23	173	39	21	161	116	A
15	147	38	289	23	176	39	21	161	120	A
16	137	38	292	23	178	39	20	162	121	A
17	127	38	293	23	181	39	21	162	123	A
18	117	37	296	22	183	39	20	162	125	A
19	107	39	297	21	188	40	19	167	124	A
20	97	37	297	20	191	37	19	168	123	A
21	87	38	301	20	196	39	19	170	126	A
22	77	37	307	17	207	37	17	174	130	A
23	67	40	311	15	228	40	15	3	310	A
24	57	36	309	13	236	36	12	7	306	A
25	47	30	305	18	213	30	18	179	125	A

Harmonic constants for constituent O1 for deployment NWNA0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	287	23	29	11	297	23	11	179	209	A
02	277	25	23	12	292	25	12	180	203	A
03	267	26	24	13	287	26	13	175	207	A
04	257	26	27	13	288	26	13	174	211	A
05	247	26	28	12	286	26	12	173	211	A
06	237	26	28	12	283	26	12	171	212	A
07	227	26	28	12	280	26	12	169	213	A
08	217	25	27	13	281	26	12	170	211	A
09	207	27	29	13	280	27	12	169	214	A
10	197	27	30	13	278	27	12	167	216	A
11	187	26	31	13	275	26	11	166	217	A
12	177	26	30	14	277	27	12	165	217	A
13	167	27	31	14	276	28	12	165	218	A
14	157	28	31	15	276	29	13	164	218	A
15	147	28	32	16	277	29	14	163	220	A
16	137	28	32	16	279	29	14	164	220	A
17	127	29	34	16	278	30	14	161	223	A
18	117	28	33	15	278	29	13	163	221	A
19	107	26	29	14	276	27	12	165	216	A
20	97	26	34	15	277	28	13	161	223	A
21	87	24	28	15	275	25	13	160	219	A
22	77	24	30	15	279	25	13	162	220	A
23	67	26	21	17	278	26	16	166	210	A
24	57	27	28	17	267	29	14	157	219	A
25	47	32	29	21	272	34	17	158	220	A

NWNA0606 ADCP 1279

Harmonic constants for constituent K1 for deployment NWNA0606.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	287	30	282	19	199	30	19	7	277	A
02	277	36	288	23	185	37	22	168	116	A
03	267	41	291	23	179	43	20	165	118	A
04	257	38	287	21	175	39	19	165	115	A
05	247	36	285	22	174	37	19	163	115	A
06	237	35	282	20	173	36	19	165	110	A
07	227	35	280	21	169	36	19	164	109	A
08	217	35	280	21	170	36	19	164	108	A
09	207	36	279	21	169	37	19	165	107	A
10	197	36	278	21	168	37	19	164	107	A
11	187	35	278	21	166	36	19	162	107	A
12	177	36	275	22	164	37	19	162	105	A
13	167	37	275	21	163	38	19	163	103	A
14	157	36	272	22	163	37	20	164	101	A
15	147	36	272	21	162	37	19	165	100	A
16	137	37	271	20	162	38	18	167	98	A
17	127	37	269	20	161	37	19	166	97	A
18	117	36	267	19	159	37	18	168	93	A
19	107	37	268	20	159	38	18	167	95	A
20	97	34	268	20	159	35	18	166	95	A
21	87	34	268	20	165	35	19	169	94	A
22	77	34	269	22	164	35	21	166	98	A
23	67	37	275	25	168	38	23	162	106	A
24	57	33	264	23	175	33	23	1	263	A
25	47	32	270	21	171	32	21	170	97	A

Deployment Id: NWNB0606

Latitude: 62°54.478'N

Longitude: 006°04.960'W

Echo sounding depth: 975m

Bottom depth corr.: 958m

Time of deployment: 09/06 - 2006 0803UTC

Time of recovery: 18/05 - 2007 0553UTC,

ADCP:

Instrument no.: RDI ADCP 1577

Instrument frequency: 75kHz

Height above bottom: 254m (corr.)

Depth: 704m (corr.)

Time of first data: 09/06 - 2006 0840UTC

Time of last data: 18/05 - 2007 0540UTC

Sample interval: 20 min

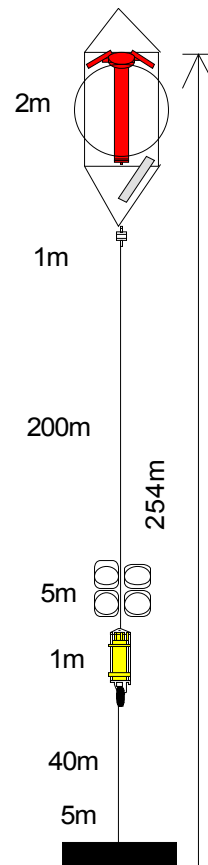
No. of ensembles: 24688

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 669m (corr.)

No. of bins: 22



Data: All data ok.

NWNB0606 ADCP 1577

Error statistics for deployment: NWNB0606 updated 2007/08/09

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2007
 Velocity edited up to and including bin 22 by EJ in Aug 2007
 Intensity edited up to and including bin 22 by EM in Jul 2007

Total number of ensembles: 24688
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 22
 Number of acceptable intensity bins: 22

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 0

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	3	56	0	31	2	0	1	1	0	1	0	0	0
2	5	49	0	38	1	0	0	0	1	0	0	0	0
3	3	34	0	26	0	0	0	0	1	0	0	0	0
4	0	32	0	28	0	0	1	0	0	0	0	0	0
5	0	23	0	17	1	0	1	0	0	0	0	0	0
6	0	16	0	10	0	0	0	0	1	0	0	0	0
7	0	17	0	13	2	0	0	0	0	0	0	0	0
8	0	22	0	17	1	1	0	0	0	0	0	0	0
9	1	29	0	23	1	0	1	0	0	0	0	0	0
10	0	38	0	30	1	0	0	0	1	0	0	0	0
11	0	43	0	36	1	0	0	1	0	0	0	0	0
12	0	75	0	57	4	0	1	0	1	0	0	0	0
13	0	84	0	73	4	1	0	0	0	0	0	0	0
14	0	85	0	65	4	2	0	0	1	0	0	0	0
15	0	142	1	100	7	1	0	2	2	0	0	0	0
16	1	272	1	141	11	0	3	4	3	4	0	0	0
17	0	710	3	230	32	7	9	4	12	6	4	1	0
18	0	1858	8	351	75	30	15	12	40	28	11	4	0
19	1	3632	15	494	134	67	38	25	71	49	20	17	0
20	0	5390	22	594	150	66	62	43	93	57	29	40	1
21	1	7422	30	690	211	120	77	53	124	61	26	59	9
22	1	9803	40	767	317	157	88	71	153	80	34	61	27

NWNB0606 ADCP 1577

Deployment: NWNB0606 updated 2007/08/09
 Instrument no.: 1577
 Instrument freq.: 75
 Latitude: 62 54.478 N
 Longitude: 06 04.960 W
 Bottom depth: 958
 Instrument depth: 704
 Center depth of first bin: 669
 Bin length: 25
 Number of bins: 22
 Number of first ensemble: 189
 Time of first ensemble: 2006 06 09 08 40
 Number of last ensemble: 24876
 Time of last ensemble: 2007 05 18 05 40
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -12.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	669	289	128	46	97	998
2	644	314	127	41	97	998
3	619	339	127	36	97	999
4	594	364	128	31	97	999
5	569	389	129	28	98	999
6	544	414	131	26	98	999
7	519	439	133	25	100	999
8	494	464	136	26	102	999
9	469	489	139	31	105	999
10	444	514	143	40	106	998
11	419	539	150	51	106	998
12	394	564	163	65	106	997
13	369	589	178	86	107	997
14	344	614	195	110	108	997
15	319	639	217	137	108	994
16	294	664	241	164	108	989
17	269	689	264	188	108	971
18	244	714	284	209	109	925
19	219	739	301	226	109	853
20	194	764	318	241	109	782
21	169	789	331	253	109	699
22	144	814	341	262	109	603

NWNB0606 ADCP 1577

Deployment: NWNB0606

Frequency of high speeds.

Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

```

=====
Bin|Depth|
no.|  m|  10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
-----
1| 669| 561 175 39  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0
2| 644| 564 171 37  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0
3| 619| 569 170 35  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0
4| 594| 572 168 34  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0
5| 569| 582 173 31  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0
6| 544| 590 180 33  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0
7| 519| 602 189 37  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0
8| 494| 614 199 41  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0
9| 469| 631 209 43  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0
10| 444| 645 232 54  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0
11| 419| 665 264 68 13  0  0  0  0  0  0  0  0  0  0  0  0  0  0
12| 394| 705 309 93 20  2  0  0  0  0  0  0  0  0  0  0  0  0  0
13| 369| 745 365 134 33  6  0  0  0  0  0  0  0  0  0  0  0  0  0
14| 344| 780 425 179 55 10  0  0  0  0  0  0  0  0  0  0  0  0  0
15| 319| 823 499 238 84 19  0  0  0  0  0  0  0  0  0  0  0  0  0
16| 294| 857 566 300 128 35  6  0  0  0  0  0  0  0  0  0  0  0  0
17| 269| 862 615 356 172 58 13  1  0  0  0  0  0  0  0  0  0  0  0
18| 244| 840 631 390 201 81 21  4  0  0  0  0  0  0  0  0  0  0  0
19| 219| 782 611 397 223 100 30  7  1  0  0  0  0  0  0  0  0  0  0
20| 194| 723 577 391 234 117 40 12  2  0  0  0  0  0  0  0  0  0  0
21| 169| 648 527 368 233 126 50 17  4  0  0  0  0  0  0  0  0  0  0
22| 144| 559 459 328 215 121 54 19  5  1  0  0  0  0  0  0  0  0  0
-----

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NWNB0606 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	669	77	261	49	127	86	32	152	92	A
02	644	80	262	49	131	87	34	154	93	A
03	619	83	263	49	134	90	35	156	93	A
04	594	85	264	50	139	91	38	157	95	A
05	569	90	266	51	143	95	40	159	95	A
06	544	95	269	52	151	99	44	162	97	A
07	519	100	273	52	160	102	47	165	99	A
08	494	103	277	50	170	104	47	169	102	A
09	469	104	283	48	183	105	47	174	105	A
10	444	105	287	45	193	105	45	178	108	A
11	419	107	292	45	204	107	45	1	292	A
12	394	111	298	50	220	112	48	7	295	A
13	369	116	304	57	234	118	53	12	299	A
14	344	118	310	65	244	122	58	16	303	A
15	319	118	317	71	253	123	61	20	306	A
16	294	120	323	77	261	128	64	23	311	A
17	269	122	327	86	266	132	70	26	313	A
18	244	125	331	91	270	136	74	28	315	A
19	219	128	334	95	270	139	79	28	317	A
20	194	131	335	100	269	141	85	28	318	A
21	169	133	336	101	268	143	88	27	319	A
22	144	131	335	100	269	142	84	28	317	A

Harmonic constants for constituent S2 for deployment NWNB0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	669	31	304	19	186	33	16	159	135	A
02	644	31	307	18	189	33	15	161	137	A
03	619	32	311	17	195	33	15	163	139	A
04	594	32	313	17	200	33	15	165	140	A
05	569	33	316	17	203	34	15	166	142	A
06	544	33	317	17	209	34	16	169	142	A
07	519	33	318	15	216	33	15	173	142	A
08	494	34	324	14	225	34	14	176	145	A
09	469	36	330	15	241	36	15	0	330	A
10	444	38	336	16	254	38	16	4	334	A
11	419	39	342	18	265	39	17	7	339	A
12	394	39	346	19	273	40	18	10	342	A
13	369	40	352	21	279	41	20	11	347	A
14	344	39	356	20	287	40	18	13	350	A
15	319	38	359	22	297	40	18	20	350	A
16	294	39	3	25	304	41	20	24	350	A
17	269	40	5	27	305	44	22	26	352	A
18	244	42	6	30	306	46	24	27	352	A
19	219	43	8	31	308	47	25	29	351	A
20	194	43	11	31	317	48	23	31	355	A
21	169	45	12	33	318	51	24	31	356	A
22	144	48	16	33	306	50	30	21	4	A

NWNB0606 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	669	15	209	15	75	19	8	135	52	A
02	644	15	212	15	75	20	8	137	52	A
03	619	16	215	15	80	20	8	138	55	A
04	594	17	218	16	82	22	9	139	58	A
05	569	17	223	16	86	22	9	139	62	A
06	544	19	225	17	95	23	11	140	66	A
07	519	21	232	17	105	24	12	146	70	A
08	494	21	238	15	118	23	12	154	72	A
09	469	23	247	13	137	23	12	164	76	A
10	444	25	256	13	159	25	13	175	78	A
11	419	27	263	13	177	27	13	3	261	A
12	394	28	273	14	195	28	13	7	270	A
13	369	27	282	15	210	27	14	14	275	A
14	344	27	284	17	213	28	15	16	275	A
15	319	28	282	17	213	29	15	17	273	A
16	294	29	285	17	216	30	16	17	276	A
17	269	33	296	19	223	34	18	14	288	A
18	244	34	300	20	228	35	19	15	292	A
19	219	31	302	25	238	34	21	33	281	A
20	194	32	311	27	244	36	23	34	288	A
21	169	32	317	24	251	35	21	27	301	A
22	144	34	325	27	260	38	22	30	306	A

Harmonic constants for constituent O1 for deployment NWNB0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	669	4	36	3	292	4	3	161	230	A
02	644	4	33	3	284	4	3	157	228	A
03	619	4	33	3	281	5	2	164	221	A
04	594	5	42	2	296	5	2	169	227	A
05	569	6	40	3	304	6	3	175	222	A
06	544	6	41	3	308	6	3	178	223	A
07	519	6	45	3	302	6	3	171	229	A
08	494	6	37	3	289	6	3	169	222	A
09	469	6	37	3	311	6	3	4	35	A
10	444	6	37	4	305	6	4	178	218	A
11	419	7	34	4	292	7	4	168	222	A
12	394	8	31	5	284	8	5	166	219	A
13	369	8	38	5	288	8	4	163	228	A
14	344	9	37	5	288	9	4	168	223	A
15	319	10	27	6	292	10	6	176	209	A
16	294	13	35	6	293	13	6	173	218	A
17	269	14	37	6	285	14	5	169	221	A
18	244	14	36	5	302	14	5	178	217	A
19	219	15	28	6	335	16	5	15	24	A
20	194	16	30	7	338	17	5	17	25	A
21	169	13	25	10	350	16	5	36	13	A
22	144	12	23	5	356	13	2	20	19	A

NWNB0606 ADCP 1577

Harmonic constants for constituent K1 for deployment NWNB0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	669	4	276	4	130	6	2	140	110	A
02	644	4	275	4	132	6	2	141	110	A
03	619	5	269	4	132	6	2	145	104	A
04	594	5	273	4	135	6	2	142	109	A
05	569	6	269	4	137	6	3	150	102	A
06	544	6	268	5	141	7	3	150	103	A
07	519	7	270	4	146	8	3	157	100	A
08	494	6	267	4	140	7	3	150	102	A
09	469	6	272	4	142	7	3	155	102	A
10	444	7	283	4	141	8	2	156	110	A
11	419	9	280	4	135	10	2	160	105	A
12	394	12	277	3	125	12	1	167	98	A
13	369	13	266	4	127	14	3	166	89	A
14	344	14	257	8	118	15	5	153	86	A
15	319	15	261	8	127	16	6	156	90	A
16	294	15	269	6	128	16	4	161	94	A
17	269	16	268	7	132	16	5	160	94	A
18	244	10	270	7	140	11	5	150	104	A
19	219	2	246	6	144	6	2	95	142	A
20	194	3	225	7	141	7	3	87	142	A
21	169	4	196	6	150	7	3	60	163	A
22	144	4	226	2	166	4	2	22	215	A

Deployment Id: NWNE0606

Latitude: 62°47.786'N

Longitude: 006°04.577'W

Echo sounding depth: 463m

Bottom depth corr.: 462m

Time of deployment: 09/06 - 2006 0658UTC

Time of recovery: 18/05 - 2007 0815UTC

ADCP:

Instrument no.: RDI ADCP 1244

Instrument frequency: 150kHz

Height above bottom: 1m

Depth: 461m (corr.)

Time of first data: 09/06 - 2006 0700 UTC

Time of last data: 18/05 - 2007 0800 UTC

Sample interval: 20 min

No. of ensembles: 24700

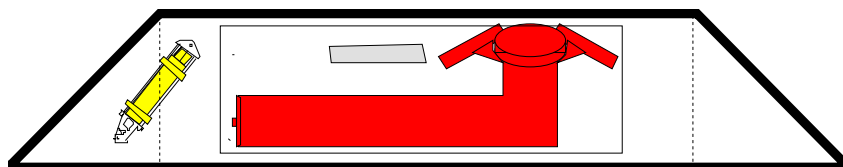
Pings per ens.: 1

Binlength: 25 m

Depth of first bin: 431 (corr.)

No. of bins: 15

Data: All data ok.



NWNE0606 ADCP 1244

Error statistics for deployment: NWNE0606 updated 2007/08/09

Surface distance not edited
Heading, pitch and roll not edited
Temperature edited by EM in Jun 2007
Velocity edited up to and including bin 15 by EJ in Jul 2007
Intensity edited up to and including bin 15 by EM in Jul 2007

Total number of ensembles: 24700
Interval between ensembles: 20 min
Original number of bins: 20
Number of acceptable velocity bins: 15
Number of acceptable intensity bins: 15

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 0

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	1	1338	5	1140	81	9	1	1	0	0	0	0	0
2	1	1400	6	1180	93	6	4	0	0	0	0	0	0
3	3	1603	6	1305	121	13	3	1	0	0	0	0	0
4	1	1560	6	1296	115	6	4	0	0	0	0	0	0
5	1	1485	6	1252	100	7	3	0	0	0	0	0	0
6	0	1510	6	1271	96	13	2	0	0	0	0	0	0
7	0	1501	6	1271	93	12	2	0	0	0	0	0	0
8	1	1575	6	1329	104	10	2	0	0	0	0	0	0
9	0	1671	7	1403	105	12	4	0	1	0	0	0	0
10	2	1906	8	1428	141	35	9	4	5	0	0	0	0
11	2	2494	10	1491	198	50	17	12	27	7	1	0	0
12	1	3686	15	1432	236	85	35	38	48	36	9	4	0
13	5	5290	21	1431	270	109	53	32	77	55	32	11	0
14	1	7867	32	1442	340	147	68	48	113	104	57	24	1
15	1	11158	45	1287	377	165	83	47	144	103	77	54	16

NWNE0606 ADCP 1244

Deployment: NWNE0606 updated 2007/08/09
Instrument no.: 1244
Instrument freq.: 150
Latitude: 62 47.786 N
Longitude: 06 04.577 W
Bottom depth: 462
Instrument depth: 461
Center depth of first bin: 431
Bin length: 25
Number of bins: 15
Number of first ensemble: 184
Time of first ensemble: 2006 06 09 07 00
Number of last ensemble: 24883
Time of last ensemble: 2007 05 18 08 00
Time between ensembles (min.): 20
All directions have been corrected by adding: -12.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	431	31	232	115	86	946
2	406	56	238	129	94	943
3	381	81	238	144	97	935
4	356	106	239	158	98	937
5	331	131	243	173	98	940
6	306	156	251	190	98	939
7	281	181	260	206	98	939
8	256	206	270	220	99	936
9	231	231	277	229	98	932
10	206	256	282	235	98	923
11	181	281	289	242	98	899
12	156	306	294	245	98	851
13	131	331	300	249	98	786
14	106	356	309	254	98	681
15	81	381	316	254	99	548

NWNE0606 ADCP 1244

Deployment: NWNE0606

Frequency of high speeds.

=====

Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

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=====
Bin|Depth|
no.|  m|  10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
-----
 1| 431| 817 526 256  96  28  6  1  0  0  0  0  0  0  0  0  0  0  0
 2| 406| 818 532 267 113  37  9  1  0  0  0  0  0  0  0  0  0  0  0
 3| 381| 801 517 268 120  45 12  1  0  0  0  0  0  0  0  0  0  0  0
 4| 356| 792 512 278 130  50 14  2  0  0  0  0  0  0  0  0  0  0  0
 5| 331| 794 517 291 143  55 17  3  0  0  0  0  0  0  0  0  0  0  0
 6| 306| 799 530 312 158  65 21  5  0  0  0  0  0  0  0  0  0  0  0
 7| 281| 806 553 333 178  77 26  6  1  0  0  0  0  0  0  0  0  0  0
 8| 256| 812 568 356 196  88 31  9  1  0  0  0  0  0  0  0  0  0  0
 9| 231| 811 579 367 210  99 38 12  2  0  0  0  0  0  0  0  0  0  0
10| 206| 806 581 378 219 107 42 13  3  1  0  0  0  0  0  0  0  0  0
11| 181| 791 574 379 224 114 49 17  5  1  0  0  0  0  0  0  0  0  0
12| 156| 751 553 365 216 115 51 19  7  2  1  0  0  0  0  0  0  0  0
13| 131| 698 519 346 207 113 53 21  8  2  1  0  0  0  0  0  0  0  0
14| 106| 613 462 312 189 107 51 23  9  4  1  1  0  0  0  0  0  0  0
15|  81| 494 378 257 158  90 45 20 10  5  2  1  1  0  0  0  0  0  0
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NWNE0606 ADCP 1244

Harmonic constants for constituent M2 for deployment NWNE0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	431	155	253	131	145	167	116	150	95	A
02	406	163	265	126	157	171	114	155	102	A
03	381	160	279	112	173	165	104	162	111	A
04	356	154	291	97	190	156	94	169	118	A
05	331	146	302	87	208	146	87	176	125	A
06	306	140	310	82	221	140	82	1	310	A
07	281	137	315	80	230	138	79	4	313	A
08	256	136	318	78	236	137	76	7	314	A
09	231	134	319	77	240	135	75	9	314	A
10	206	131	322	77	244	133	74	10	316	A
11	181	128	324	75	247	129	72	12	317	A
12	156	125	325	74	250	127	70	13	317	A
13	131	123	326	72	255	126	66	15	318	A
14	106	120	328	68	263	125	59	17	320	A
15	81	115	335	71	268	120	63	19	325	A

Harmonic constants for constituent S2 for deployment NWNE0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	431	62	297	49	194	64	46	158	133	A
02	406	64	305	50	202	66	47	160	140	A
03	381	62	321	43	217	64	41	162	153	A
04	356	58	336	37	233	59	36	167	164	A
05	331	57	347	35	248	57	34	171	173	A
06	306	53	356	31	262	53	31	177	178	A
07	281	49	359	29	273	49	29	4	356	A
08	256	47	360	28	278	47	28	7	356	A
09	231	46	359	27	284	46	26	12	352	A
10	206	44	360	26	287	45	24	14	352	A
11	181	42	1	24	291	43	22	15	353	A
12	156	40	2	24	289	41	22	14	354	A
13	131	38	359	19	296	40	17	16	352	A
14	106	37	5	17	300	38	15	13	359	A
15	81	40	356	16	306	42	12	15	351	A

NWNE0606 ADCP 1244

Harmonic constants for constituent N2 for deployment NWNE0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	431	27	195	27	80	32	20	136	46	A
02	406	31	206	28	90	35	22	142	52	A
03	381	33	227	28	114	36	23	147	69	A
04	356	31	254	22	134	34	17	152	90	A
05	331	31	275	18	158	32	15	161	104	A
06	306	31	283	17	177	32	16	168	109	A
07	281	31	285	16	189	31	16	176	107	A
08	256	30	290	17	206	31	17	5	287	A
09	231	31	292	18	217	32	17	12	286	A
10	206	30	299	18	223	31	17	12	291	A
11	181	31	301	20	228	32	19	17	290	A
12	156	32	301	21	237	34	18	23	288	A
13	131	33	300	19	239	35	16	20	291	A
14	106	34	298	19	238	36	16	20	289	A
15	81	38	289	14	243	39	10	15	285	A

Harmonic constants for constituent O1 for deployment NWNE0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	431	20	34	12	318	20	12	13	27	A
02	406	20	40	12	300	20	11	171	225	A
03	381	19	46	12	297	20	11	164	235	A
04	356	19	40	10	289	20	9	167	226	A
05	331	20	34	9	280	20	8	168	219	A
06	306	20	30	8	273	21	7	169	214	A
07	281	20	25	8	274	21	8	171	208	A
08	256	21	23	9	281	21	8	174	205	A
09	231	19	25	9	286	19	8	175	207	A
10	206	18	27	8	280	19	7	172	210	A
11	181	19	29	6	283	19	6	174	211	A
12	156	20	28	7	297	20	7	179	208	A
13	131	22	34	6	299	22	6	178	215	A
14	106	18	27	7	290	18	7	176	208	A
15	81	18	28	8	299	18	8	0	28	A

NWNE0606 ADCP 1244

Harmonic constants for constituent K1 for deployment NWNE0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	431	24	266	17	188	25	16	14	257	A
02	406	25	269	15	182	25	15	4	266	A
03	381	26	272	13	167	26	12	171	96	A
04	356	25	265	11	157	25	10	171	88	A
05	331	25	259	10	161	25	10	176	81	A
06	306	23	263	9	169	23	9	178	84	A
07	281	23	272	9	181	23	9	180	92	A
08	256	22	275	10	183	22	10	179	96	A
09	231	21	274	10	190	21	10	3	273	A
10	206	21	273	10	198	21	10	9	269	A
11	181	20	275	11	202	20	10	13	268	A
12	156	16	269	11	196	17	10	19	256	A
13	131	13	258	11	207	15	7	38	238	A
14	106	13	275	12	215	15	9	39	250	A
15	81	6	251	18	227	19	2	72	230	A

Deployment Id: NWNG0606

Latitude: 63°06.180'N

Longitude: 006°05.100'W

Echo sounding depth: 1849 m

Bottom depth corr.: 1808m

Time of deployment: 09/06 - 2006 0916UTC

Time of recovery: 18/05 - 2007 0337UTC

ADCP:

Instrument no.: RDI ADCP 1292

Instrument frequency: 75kHz

Height above bottom: 1168 m

Depth: 640m (corr.)

Time of first data: 09/06 - 2006 1000UTC

Time of last data: 18/05 - 2007 0320UTC

Sample interval: 20 min

No. of ensembles: 24677

Pings per ens.: 1

Binlength: 25 m

Depth of first bin: 605m (corr.)

No. of bins: 22

Aanderaa:

Instrument no.: RCM9 721

Height above bottom: 1111 m

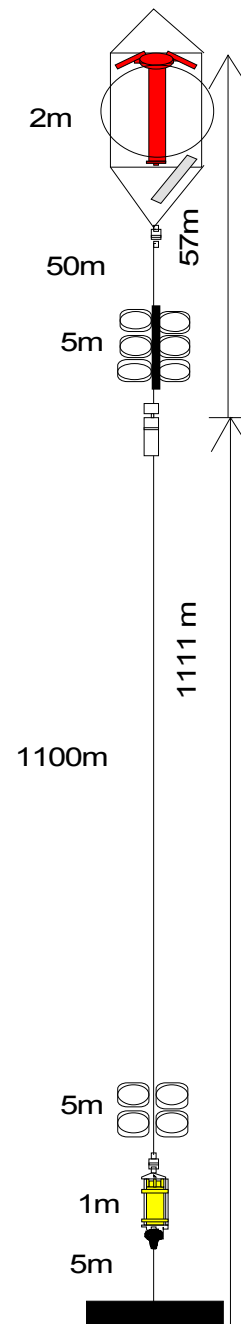
Depth: 697m (corr.)

Time of first data: 09/06 - 2006 1029UTC

Time of last data: 18/05 - 2007 0129UTC

Sample interval: 60 min

No. of ensembles: 8224



Data: All data ok.

NWNG0606 ADCP 1292

Error statistics for deployment: NWNG0606 updated 2007/08/09

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2007
 Velocity edited up to and including bin 22 by EJ in Jul 2007
 Intensity edited up to and including bin 22 by EM in Jul 2007

Total number of ensembles: 24677
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 22
 Number of acceptable intensity bins: 22

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 2

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	32	0	32	0	0	0	0	0	0	0	0	0	0
2	0	35	0	35	0	0	0	0	0	0	0	0	0	0
3	0	22	0	22	0	0	0	0	0	0	0	0	0	0
4	0	18	0	18	0	0	0	0	0	0	0	0	0	0
5	1	15	0	15	0	0	0	0	0	0	0	0	0	0
6	0	20	0	18	1	0	0	0	0	0	0	0	0	0
7	0	24	0	22	1	0	0	0	0	0	0	0	0	0
8	0	26	0	22	2	0	0	0	0	0	0	0	0	0
9	0	21	0	15	0	0	0	0	1	0	0	0	0	0
10	1	62	0	48	1	1	1	1	0	0	0	0	0	0
11	1	64	0	62	1	0	0	0	0	0	0	0	0	0
12	0	94	0	73	1	5	1	0	0	0	0	0	0	0
13	1	116	0	94	6	2	1	0	0	0	0	0	0	0
14	0	217	1	142	12	3	0	3	4	0	0	0	0	0
15	1	253	1	180	14	2	1	2	2	1	0	0	0	0
16	0	350	1	224	15	5	4	2	2	3	0	0	0	0
17	1	585	2	341	43	8	4	3	9	1	1	0	0	0
18	0	1336	5	504	66	35	10	7	21	8	2	5	0	0
19	1	2648	11	597	111	52	31	13	32	27	14	12	0	0
20	0	4313	17	686	164	53	34	29	59	43	29	23	3	3
21	1	6273	25	883	223	88	59	40	84	77	36	30	7	7
22	1	8367	34	1211	327	143	62	54	124	104	38	38	10	10

NWNG0606 ADCP 1292

Deployment: NWNG0606 updated 2007/08/09
 Instrument no.: 1292
 Instrument freq.: 75
 Latitude: 63 06.180 N
 Longitude: 06 05.100 W
 Bottom depth: 1808
 Instrument depth: 640
 Center depth of first bin: 605
 Bin length: 25
 Number of bins: 22
 Number of first ensemble: 193
 Time of first ensemble: 2006 06 09 10 00
 Number of last ensemble: 24869
 Time of last ensemble: 2007 05 18 03 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -12.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	605	1203	87	31	128	999
2	580	1228	89	31	127	999
3	555	1253	90	32	126	999
4	530	1278	92	33	125	999
5	505	1303	95	35	123	999
6	480	1328	98	37	123	999
7	455	1353	103	40	123	999
8	430	1378	107	43	121	999
9	405	1403	112	48	120	999
10	380	1428	119	52	119	997
11	355	1453	129	60	117	997
12	330	1478	142	69	117	996
13	305	1503	158	81	118	995
14	280	1528	174	93	118	991
15	255	1553	195	108	118	990
16	230	1578	215	123	118	986
17	205	1603	239	139	118	976
18	180	1628	261	156	118	946
19	155	1653	283	171	117	893
20	130	1678	305	186	116	825
21	105	1703	328	199	116	746
22	80	1728	354	210	116	661

NWNG0606 ADCP 1292

Deployment: NWNG0606

Frequency of high speeds.

Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

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=====
Bin|Depth|
no.|  m|      10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
-----
1| 605| 363  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
2| 580| 371  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
3| 555| 382  22  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
4| 530| 401  26  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
5| 505| 421  31  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
6| 480| 445  41  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
7| 455| 475  59  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
8| 430| 498  76  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
9| 405| 524  95 10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
10| 380| 554 118 15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
11| 355| 600 159 28  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
12| 330| 653 219 46  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0
13| 305| 702 286 83 13  0  0  0  0  0  0  0  0  0  0  0  0  0  0
14| 280| 740 347 124 26  1  0  0  0  0  0  0  0  0  0  0  0  0  0
15| 255| 781 412 180 55  8  0  0  0  0  0  0  0  0  0  0  0  0  0
16| 230| 813 478 232 86 22  3  0  0  0  0  0  0  0  0  0  0  0  0
17| 205| 829 533 290 129 46 12  2  0  0  0  0  0  0  0  0  0  0  0
18| 180| 822 569 334 171 73 25  7  0  0  0  0  0  0  0  0  0  0  0
19| 155| 791 571 358 201 99 44 18  4  0  0  0  0  0  0  0  0  0  0
20| 130| 743 560 371 222 117 57 27 11  3  0  0  0  0  0  0  0  0  0
21| 105| 678 528 369 236 136 70 34 16  6  2  0  0  0  0  0  0  0  0
22|  80| 609 487 356 242 151 85 43 23 10  4  2  0  0  0  0  0  0  0
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NWNG0606 ADCP 1292

Harmonic constants for constituent M2 for deployment NWNG0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	605	69	293	32	247	72	22	19	287	A
02	580	68	295	32	251	72	21	21	289	A
03	555	67	296	33	255	71	20	22	289	A
04	530	65	298	34	260	71	19	24	291	A
05	505	63	301	36	265	70	19	26	294	A
06	480	63	305	38	269	71	20	29	296	A
07	455	63	309	42	273	73	21	31	299	A
08	430	61	314	44	281	72	20	34	303	A
09	405	58	319	46	288	71	19	37	307	A
10	380	56	323	49	293	72	19	41	311	A
11	355	58	328	53	296	75	22	42	314	A
12	330	61	335	61	297	81	28	45	316	A
13	305	63	343	67	301	86	33	47	320	A
14	280	63	351	74	306	90	37	51	324	A
15	255	69	1	84	307	98	48	54	327	A
16	230	81	7	97	308	111	61	55	329	A
17	205	91	11	108	307	121	73	56	329	A
18	180	97	16	116	309	127	82	58	331	A
19	155	105	19	126	310	137	91	59	331	A
20	130	114	21	138	308	147	103	62	328	A
21	105	126	20	149	308	160	112	59	330	A
22	80	133	19	153	307	166	117	58	331	A

Harmonic constants for constituent S2 for deployment NWNG0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	605	22	326	9	290	23	5	20	321	A
02	580	22	324	9	285	23	5	19	320	A
03	555	22	324	9	283	23	5	17	319	A
04	530	21	325	8	288	22	5	18	321	A
05	505	20	328	9	299	22	4	23	324	A
06	480	20	329	9	301	22	4	22	325	A
07	455	20	328	8	306	22	3	22	325	A
08	430	21	329	10	304	22	4	24	325	A
09	405	21	338	11	308	23	5	26	332	A
10	380	22	344	12	311	24	6	27	337	A
11	355	22	348	14	317	25	6	31	340	A
12	330	21	2	16	326	25	8	36	349	A
13	305	19	11	18	336	25	8	43	354	A
14	280	19	14	19	342	26	8	46	358	A
15	255	19	23	21	347	27	9	49	3	A
16	230	22	32	24	351	30	11	49	8	A
17	205	25	45	30	353	36	17	53	12	A
18	180	28	49	34	353	39	20	55	12	A
19	155	29	48	39	355	44	21	59	11	A
20	130	31	50	38	356	45	22	54	16	A
21	105	29	52	33	3	40	18	50	23	A
22	80	34	55	31	360	41	21	41	30	A

NWNG0606 ADCP 1292

Harmonic constants for constituent N2 for deployment NWNG0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	605	13	254	2	226	13	1	8	253	A
02	580	12	250	2	259	12	0	9	250	C
03	555	11	249	2	270	11	1	8	249	C
04	530	10	253	1	295	10	1	6	253	C
05	505	10	252	2	287	11	1	7	253	C
06	480	11	254	1	265	11	0	6	254	C
07	455	13	253	3	180	13	3	4	252	A
08	430	16	259	5	190	16	5	7	257	A
09	405	17	269	8	213	17	6	17	262	A
10	380	17	282	11	228	18	8	26	270	A
11	355	17	292	13	237	20	9	33	275	A
12	330	20	294	14	242	22	10	32	279	A
13	305	22	301	18	248	26	12	36	281	A
14	280	24	310	22	251	28	16	42	284	A
15	255	27	315	26	252	32	20	44	284	A
16	230	27	321	30	254	34	22	52	281	A
17	205	26	325	30	254	33	23	57	278	A
18	180	25	327	31	261	34	21	58	282	A
19	155	28	338	31	263	34	25	57	289	A
20	130	36	346	37	262	38	34	49	300	A
21	105	35	346	40	261	40	35	72	277	A
22	80	34	342	47	259	47	34	80	266	A

Harmonic constants for constituent O1 for deployment NWNG0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	605	5	53	1	316	5	1	179	233	A
02	580	6	61	1	350	6	1	3	60	A
03	555	5	68	1	6	5	0	3	68	A
04	530	5	63	1	238	5	0	173	243	C
05	505	6	59	1	294	6	1	171	241	A
06	480	6	56	2	295	6	1	172	238	A
07	455	6	53	1	334	6	1	1	53	A
08	430	6	55	1	38	6	0	8	55	A
09	405	6	45	1	352	6	0	3	45	A
10	380	6	56	1	323	6	1	180	237	A
11	355	7	57	1	293	7	1	175	237	A
12	330	6	51	1	280	6	1	174	231	A
13	305	6	54	1	255	6	0	172	234	A
14	280	5	52	1	201	5	1	169	231	C
15	255	7	52	1	212	7	0	175	232	C
16	230	8	47	0	337	8	0	1	47	A
17	205	8	51	3	12	8	2	15	48	A
18	180	9	64	3	32	9	2	17	61	A
19	155	11	59	4	74	12	1	17	60	C
20	130	8	60	7	61	11	0	39	60	C
21	105	9	68	12	84	15	2	53	79	C
22	80	10	73	15	88	18	2	56	84	C

NWNG0606 ADCP 1292

Harmonic constants for constituent K1 for deployment NWNG0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	605	4	286	2	212	4	2	10	282	A
02	580	4	287	2	177	4	2	170	111	A
03	555	4	288	2	153	4	1	160	114	A
04	530	5	289	2	156	5	2	160	115	A
05	505	5	296	3	166	5	2	155	126	A
06	480	4	295	3	164	5	2	154	126	A
07	455	5	298	2	160	5	1	158	124	A
08	430	5	295	1	132	5	0	165	116	A
09	405	5	294	2	166	5	1	167	118	A
10	380	6	283	2	176	6	2	174	105	A
11	355	6	277	2	173	6	2	176	98	A
12	330	6	276	2	136	7	1	166	99	A
13	305	8	280	2	123	8	1	170	101	A
14	280	7	277	3	112	8	1	158	99	A
15	255	8	274	6	119	10	2	146	102	A
16	230	8	270	6	111	10	2	142	98	A
17	205	9	274	5	108	10	1	153	97	A
18	180	7	270	6	113	9	2	142	99	A
19	155	8	273	3	95	9	0	161	93	A
20	130	13	279	1	173	13	1	178	99	A
21	105	13	284	2	297	13	0	6	284	C
22	80	16	270	2	224	16	1	4	270	A

NWNG0606 Aanderaa 721

Deployment: NWNG0606 analyzed from beginning to end
 Instrument no.: 721
 Instrument type: Aanderaa
 Latitude: 63 06.180 N
 Longitude: 06 05.100 W
 Bottom depth: 1808
 Instrument depth: 697
 Number of records: 8224
 Time of first record: 2006 06 09 10 29
 Time of last record : 2007 05 18 01 29
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8224	0
Column 8 : Speed	8224	0
Column 9 : Direct	8224	0

Comments

Residual current: 22 mm/sec towards: 131 degrees

TIDAL ANALYSIS

Error flagged records interpolated for velocity: 0, records not int.: 0
 Tidal analysis performed on unfiltered data

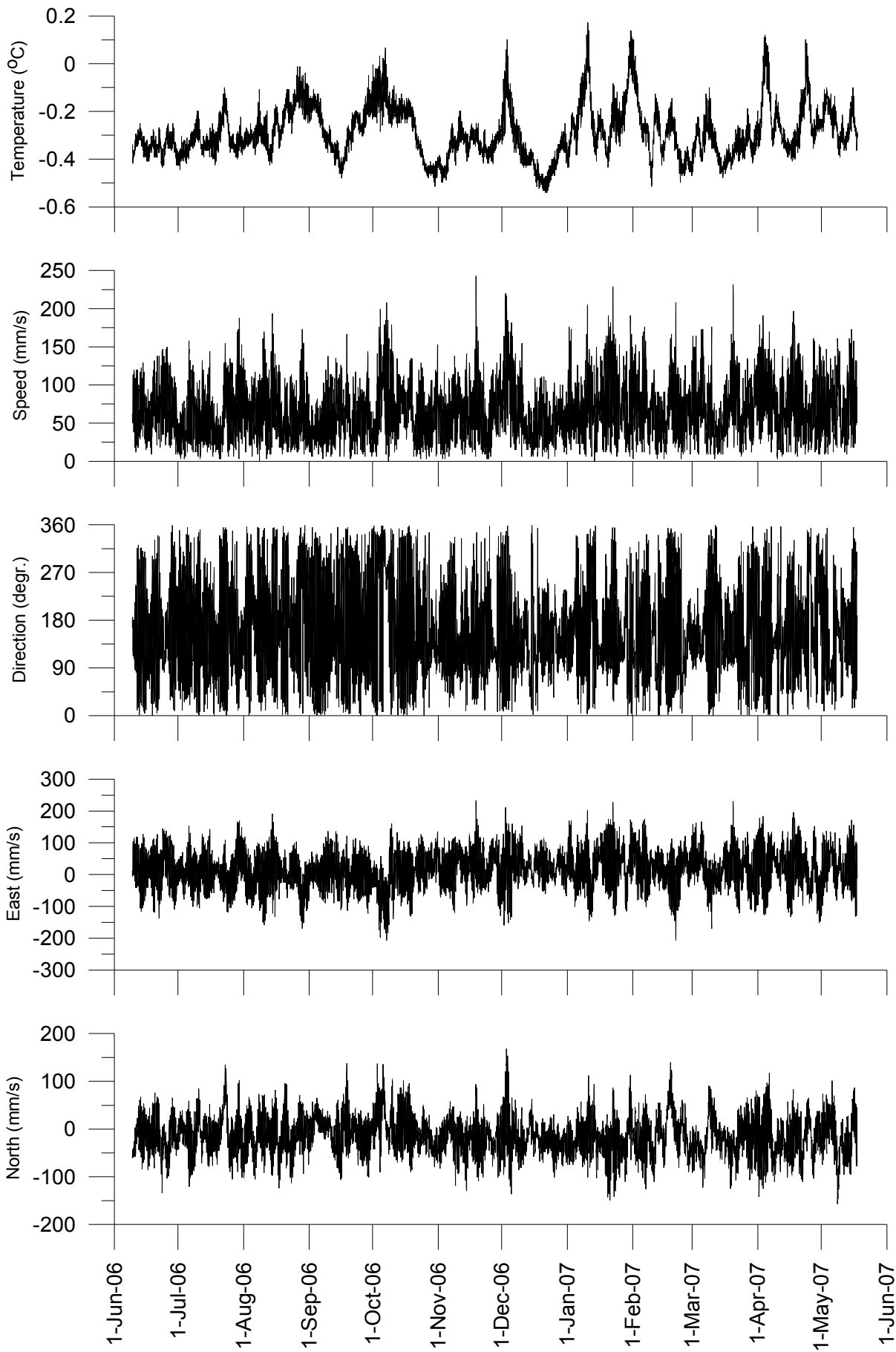
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	2	136	1	84	3	1	18	130	A
MSF	.00282193	3	73	3	346	3	3	63	11	A
Q1	.03721850	2	45	0	70	2	0	4	46	C
O1	.03873065	5	58	0	269	5	0	176	238	A
NO1	.04026859	0	348	0	284	0	0	46	315	A
P1	.04155259	1	298	1	145	1	0	132	133	A
K1	.04178075	4	293	2	186	4	2	171	117	A
N2	.07899925	12	262	4	202	12	3	9	260	A
M2	.08051140	61	289	25	235	63	20	15	284	A
L2	.08202355	5	285	5	210	6	4	34	258	A
S2	.08333334	19	322	6	278	20	4	13	319	A
K2	.08356149	8	329	5	261	8	4	15	322	A
MK3	.12229210	1	232	0	162	1	0	17	223	A
M4	.16102280	1	155	1	96	1	0	48	122	A
MS4	.16384470	0	271	0	148	0	0	143	113	A

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

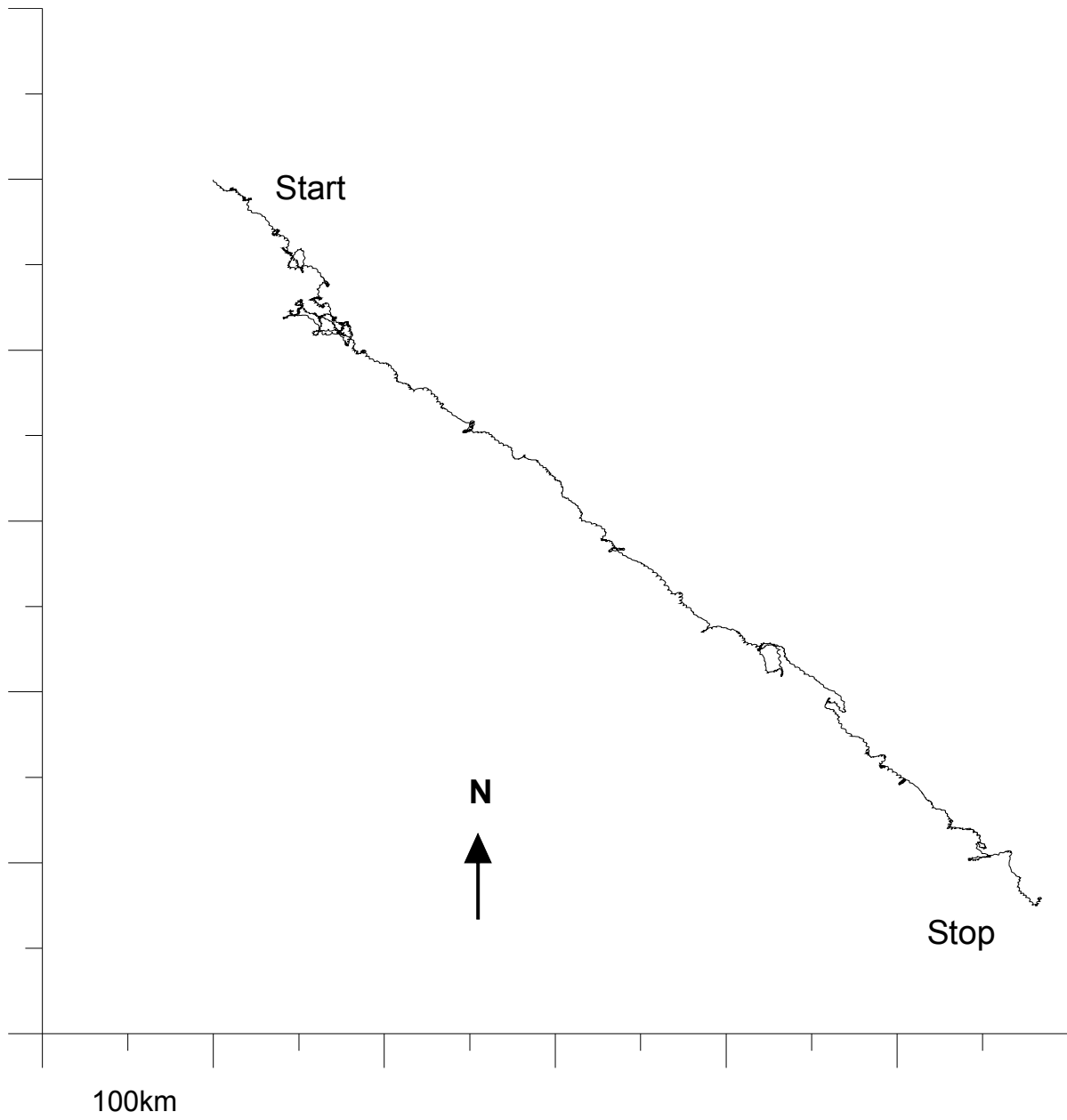
Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	20	27	34	39	43	39	40	35	26	19	18	13	354	354
50 - 100	15	29	66	80	59	44	43	49	38	25	15	10	473	826
100 - 150	3	8	29	39	14	7	8	13	16	9	4	1	150	976
150 - 200	0.24	1	5	8	1	0	0.49	1	3	2	0.36	0.12	22	998
200 - 300	0	0.24	1	1	0	0	0	0	0.12	0.24	0	0	2	1000
Total (ppt)	39	65	136	166	117	90	92	97	83	55	36	25		
Rel.flux (ppt)	30	62	157	195	112	77	79	94	89	56	30	18		
Avg.spd (mm/s)	53	65	79	80	65	58	59	66	74	70	57	51		
Max.spd (mm/s)	167	217	243	232	176	150	161	182	208	208	167	155		

NWNG0606 Aanderaa 721



NWNG0606 Aanderaa 721



Deployment Id: NWSC0606

Latitude: 60°33.960'N

Longitude: 004°46.000'W

Echo sounding depth: 1090m

Bottom depth corr.: 1070m

Time of deployment: 13/06 - 2006 0945UTC

Time of recovery: 22/5 - 2007 1004UTC

ADCP:

Instrument no.: RDI ADCP 1245

Instrument frequency: 75kHz

Height above bottom: 419m (corr.)

Depth: 651m (corr.)

Time of first data: 13/06 - 2006 1000UTC

Time of last data: 20/05 - 2007 0940UTC

Sample interval: 20 min

No. of ensembles: 24552

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 616 m (corr.)

No. of bins: 23

Aanderaa:

Instrument no.: RCM9 718

Height above bottom: 312m

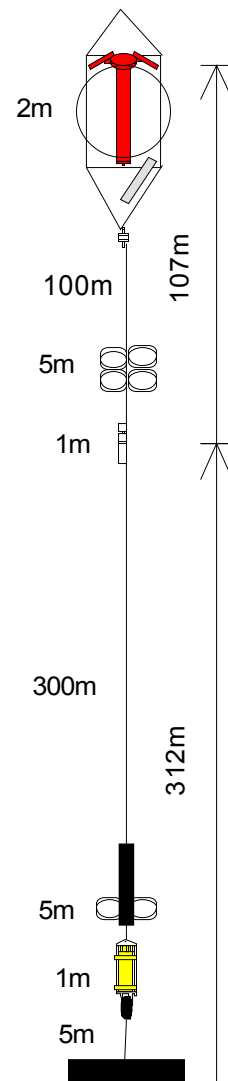
Depth: 758m (corr.)

Time of first data: 13/06 - 2006 0930 UTC

Time of last data: 20/05 - 2007 0730 UTC

Sample interval: 60 min

No. of records: 8183



Data: All data ok.

NWSC0606 ADCP 1245

Error statistics for deployment: NWSC0606 updated 2007/08/09

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2007
 Velocity edited up to and including bin 23 by EJ in Aug 2007
 Intensity edited up to and including bin 23 by EM in Jul 2007

Total number of ensembles: 24552
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 23
 Number of acceptable intensity bins: 23

Flagged values have been replaced by error codes: -999.99 for temperature, -999 for velocity and intensity. For observations where velocity is flagged, error codes have been inserted into speed, direction and vertical velocity files.

Number of temperature ens. flagged: 1

Below are for each bin listed ensembles flagged for intensity in number and for velocity in number and % of total ens.number. For velocity is also shown the number of gaps of various lengths (gap length = number of consecutive flagged ens.).

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	4	34	0	34	0	0	0	0	0	0	0	0	0	0
2	0	25	0	23	1	0	0	0	0	0	0	0	0	0
3	2	27	0	25	1	0	0	0	0	0	0	0	0	0
4	1	29	0	27	1	0	0	0	0	0	0	0	0	0
5	0	26	0	24	1	0	0	0	0	0	0	0	0	0
6	1	32	0	28	2	0	0	0	0	0	0	0	0	0
7	1	36	0	34	1	0	0	0	0	0	0	0	0	0
8	0	57	0	53	2	0	0	0	0	0	0	0	0	0
9	0	49	0	45	2	0	0	0	0	0	0	0	0	0
10	0	64	0	55	3	1	0	0	0	0	0	0	0	0
11	0	47	0	34	4	0	0	1	0	0	0	0	0	0
12	0	70	0	55	1	1	1	0	1	0	0	0	0	0
13	0	107	0	73	8	1	0	1	1	0	0	0	0	0
14	0	175	1	105	12	3	2	0	4	0	0	0	0	0
15	0	251	1	136	18	9	2	1	5	0	0	0	0	0
16	1	458	2	170	38	14	7	4	7	5	0	0	0	0
17	0	920	4	202	53	21	11	6	19	15	5	0	0	0
18	0	2015	8	235	73	33	14	9	31	39	17	6	0	0
19	0	3199	13	306	92	47	22	18	42	37	34	18	0	0
20	0	4316	18	484	138	65	38	30	67	47	30	31	0	0
21	0	4884	20	631	200	106	70	44	114	71	20	16	1	0
22	0	4958	20	685	222	114	60	37	109	68	20	16	2	0
23	2	11373	46	650	273	151	108	88	241	147	75	52	13	0

NWSC0606 ADCP 1245

Deployment: NWSC0606 updated 2007/08/09
Instrument no.: 1245
Instrument freq.: 75
Latitude: 60 33.960 N
Longitude: 04 46.000 W
Bottom depth: 1070
Instrument depth: 651
Center depth of first bin: 616
Bin length: 25
Number of bins: 23
Number of first ensemble: 481
Time of first ensemble: 2006 06 13 10 00
Number of last ensemble: 25032
Time of last ensemble: 2007 05 20 09 40
Time between ensembles (min.): 20
All directions have been corrected by adding: -11.0

Below is listed for each bin the average speed (scalar average) and the average velocity magnitude and direction formed as a vectorial average of non-flagged (Good) observations. The last column shows the number of good values used in parts per thousand.

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	616	454	181	47	179	999
2	591	479	184	46	178	999
3	566	504	188	44	173	999
4	541	529	191	42	164	999
5	516	554	197	41	153	999
6	491	579	204	41	141	999
7	466	604	211	45	132	999
8	441	629	221	51	124	998
9	416	654	231	55	119	998
10	391	679	242	60	116	997
11	366	704	250	62	113	998
12	341	729	258	63	109	997
13	316	754	264	64	106	996
14	291	779	270	67	103	993
15	266	804	277	71	100	990
16	241	829	281	70	98	981
17	216	854	284	68	97	963
18	191	879	286	67	94	918
19	166	904	291	66	91	870
20	141	929	298	64	89	824
21	116	954	312	70	90	801
22	91	979	334	77	93	798
23	66	1004	345	68	76	537

NWSC0606 ADCP 1245

Deployment: NWSC0606

Frequency of high speeds.

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Frequency (in parts per thousand) of speeds equal to or exceeding specified vales.

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Bin Depth	Speed (cm/s)																	
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 616	751	383	137	39	9	2	0	0	0	0	0	0	0	0	0	0	0	0
2 591	767	389	139	40	9	2	0	0	0	0	0	0	0	0	0	0	0	0
3 566	780	406	142	39	10	2	0	0	0	0	0	0	0	0	0	0	0	0
4 541	786	421	154	43	10	2	0	0	0	0	0	0	0	0	0	0	0	0
5 516	805	442	167	48	13	2	0	0	0	0	0	0	0	0	0	0	0	0
6 491	814	464	188	54	15	2	0	0	0	0	0	0	0	0	0	0	0	0
7 466	834	491	209	66	17	2	0	0	0	0	0	0	0	0	0	0	0	0
8 441	844	522	240	76	23	4	1	0	0	0	0	0	0	0	0	0	0	0
9 416	862	555	265	94	27	6	1	0	0	0	0	0	0	0	0	0	0	0
10 391	876	589	301	116	33	7	1	0	0	0	0	0	0	0	0	0	0	0
11 366	882	609	325	134	44	8	2	0	0	0	0	0	0	0	0	0	0	0
12 341	886	620	347	157	56	14	3	0	0	0	0	0	0	0	0	0	0	0
13 316	886	634	359	170	67	19	4	1	0	0	0	0	0	0	0	0	0	0
14 291	885	634	372	180	75	25	7	2	1	0	0	0	0	0	0	0	0	0
15 266	888	644	389	196	84	32	10	3	1	0	0	0	0	0	0	0	0	0
16 241	881	650	395	202	89	35	12	3	1	0	0	0	0	0	0	0	0	0
17 216	868	632	395	209	93	38	13	4	1	0	0	0	0	0	0	0	0	0
18 191	829	607	379	205	94	40	14	4	1	0	0	0	0	0	0	0	0	0
19 166	787	582	365	200	97	44	18	7	2	1	0	0	0	0	0	0	0	0
20 141	748	556	355	201	104	51	23	9	4	1	0	0	0	0	0	0	0	0
21 116	727	549	364	218	119	64	33	15	8	3	2	0	0	0	0	0	0	0
22 91	729	559	387	247	149	87	51	29	16	9	4	3	1	1	0	0	0	0
23 66	488	376	266	179	114	71	41	24	14	8	5	2	1	1	0	0	0	0

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NWSC0606 ADCP 1245

Harmonic constants for constituent M2 for deployment NWSC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	616	141	252	113	250	181	3	39	251	A
02	591	137	253	115	252	179	1	40	253	A
03	566	133	255	120	254	179	0	42	255	A
04	541	130	256	125	256	180	1	44	256	C
05	516	126	257	127	258	179	2	45	258	C
06	491	124	257	126	259	177	3	46	258	C
07	466	120	257	126	261	174	6	46	259	C
08	441	114	260	130	264	173	7	49	262	C
09	416	109	262	135	266	173	7	51	265	C
10	391	105	265	142	268	176	5	53	267	C
11	366	101	268	146	270	177	2	55	269	C
12	341	98	270	150	270	179	0	57	270	C
13	316	96	271	153	271	181	0	58	271	A
14	291	95	273	153	272	180	1	58	272	A
15	266	94	274	154	273	180	1	59	273	A
16	241	92	275	154	274	179	2	59	274	A
17	216	90	275	154	274	178	2	60	275	A
18	191	90	275	152	274	177	1	59	274	A
19	166	90	274	153	274	178	0	60	274	A
20	141	94	275	154	274	180	1	59	275	A
21	116	94	274	153	274	180	0	58	274	C
22	91	94	276	154	274	181	3	59	274	A
23	66	57	294	142	275	152	18	69	277	A

Harmonic constants for constituent S2 for deployment NWSC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	616	45	295	46	294	64	0	46	294	A
02	591	43	296	49	294	65	1	49	295	A
03	566	42	298	52	297	67	0	51	298	A
04	541	42	299	54	298	68	1	52	299	A
05	516	41	302	55	301	69	1	53	301	A
06	491	39	303	55	302	68	1	55	302	A
07	466	41	305	57	301	70	2	55	302	A
08	441	42	304	56	299	70	3	53	301	A
09	416	41	300	53	300	67	0	52	300	C
10	391	40	293	50	301	64	4	51	298	C
11	366	40	284	48	302	62	9	51	295	C
12	341	40	282	47	301	61	10	50	293	C
13	316	42	283	47	303	62	11	49	295	C
14	291	43	286	47	305	63	10	47	296	C
15	266	46	291	46	303	64	7	45	297	C
16	241	46	294	46	304	65	6	45	299	C
17	216	43	291	45	306	61	8	46	299	C
18	191	42	284	47	309	62	13	48	298	C
19	166	41	279	48	312	61	18	50	298	C
20	141	41	285	51	313	63	15	52	303	C
21	116	45	297	46	307	64	6	46	303	C
22	91	47	289	44	304	64	8	43	296	C
23	66	25	289	28	302	38	4	48	296	C

NWSC0606 ADCP 1245

Harmonic constants for constituent N2 for deployment NWSC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	616	29	223	17	229	34	2	30	224	C
02	591	30	227	19	225	36	0	32	226	A
03	566	30	232	23	226	38	2	37	230	A
04	541	29	237	24	229	38	3	40	234	A
05	516	29	241	25	233	38	2	42	238	A
06	491	26	241	26	236	36	2	45	238	A
07	466	26	237	26	239	37	0	45	238	C
08	441	25	235	27	239	37	1	47	237	C
09	416	23	237	27	243	35	2	50	240	C
10	391	22	242	29	243	36	0	53	243	C
11	366	22	247	31	248	38	1	55	248	C
12	341	20	255	34	249	40	2	60	250	A
13	316	19	261	38	249	42	4	64	251	A
14	291	21	269	40	247	45	7	64	251	A
15	266	22	273	43	246	47	9	64	251	A
16	241	23	266	44	244	49	8	63	248	A
17	216	22	267	42	239	47	9	64	244	A
18	191	22	265	41	236	45	10	63	242	A
19	166	23	262	38	239	44	8	60	245	A
20	141	25	261	41	237	47	9	59	244	A
21	116	27	268	43	240	49	11	60	248	A
22	91	24	273	41	242	46	11	61	249	A
23	66	14	322	41	245	42	14	85	247	A

Harmonic constants for constituent O1 for deployment NWSC0606.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	616	10	14	9	35	13	2	42	23	C
02	591	9	21	10	29	13	1	47	25	C
03	566	10	23	10	33	14	1	46	28	C
04	541	10	21	10	36	14	2	48	29	C
05	516	10	25	10	33	14	1	47	29	C
06	491	8	22	10	31	13	1	50	27	C
07	466	9	16	9	30	13	1	47	23	C
08	441	9	19	10	22	13	0	50	21	C
09	416	10	22	10	24	14	0	46	23	C
10	391	9	9	9	25	13	2	44	17	C
11	366	9	6	9	20	13	2	44	12	C
12	341	9	4	10	17	13	2	47	11	C
13	316	9	5	9	21	13	2	48	14	C
14	291	9	5	8	17	12	1	42	10	C
15	266	10	3	8	18	13	2	39	9	C
16	241	11	2	8	22	13	2	36	9	C
17	216	9	1	9	31	12	3	43	15	C
18	191	11	6	8	46	13	4	32	18	C
19	166	11	14	8	60	13	5	33	29	C
20	141	10	11	7	62	11	5	29	25	C
21	116	8	9	8	62	10	5	43	34	C
22	91	7	23	9	40	11	2	55	34	C
23	66	7	251	16	53	17	2	114	56	C

NWSC0606 ADCP 1245

Harmonic constants for constituent K1 for deployment NWSC0606.

Bin	Depth m	E-ampl mm/sec	E-gph deg	N-ampl mm/sec	N-gph deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	616	8	222	3	239	9	1	17	224	C
02	591	7	219	2	238	7	1	17	221	C
03	566	6	228	3	220	7	0	25	227	A
04	541	7	221	3	209	8	1	21	220	A
05	516	9	215	2	189	9	1	14	213	A
06	491	9	209	2	161	9	2	10	208	A
07	466	8	217	2	183	8	1	15	215	A
08	441	5	228	2	154	5	2	9	224	A
09	416	5	234	4	169	6	3	24	220	A
10	391	3	285	4	188	4	3	106	176	A
11	366	4	15	5	177	6	1	131	185	C
12	341	6	49	7	150	7	6	112	167	C
13	316	6	51	9	152	9	6	101	159	C
14	291	3	96	9	153	9	2	80	151	C
15	266	4	166	9	150	9	1	67	153	A
16	241	7	177	8	149	10	2	50	161	A
17	216	11	138	4	160	12	2	20	141	C
18	191	20	121	4	241	20	3	174	300	C
19	166	27	107	9	267	28	3	162	285	C
20	141	26	108	12	282	29	1	154	286	C
21	116	11	118	11	290	15	1	135	294	C
22	91	6	234	6	259	9	2	44	246	C
23	66	9	131	13	279	15	4	122	288	C

NWSC0606 Aanderaa 718

Deployment: NWSC0606 analyzed from beginning to end
 Instrument no.: 718
 Instrument type: Aanderaa
 Latitude: 60 33.960 N
 Longitude: 04 46.000 W
 Bottom depth: 1070
 Instrument depth: 758
 Number of records: 8183
 Time of first record: 2006 06 13 09 30
 Time of last record : 2007 05 20 07 30
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8183	0
Column 8 : Speed	8183	0
Column 9 : Direct	8183	0

Comments

Residual current: 44 mm/sec towards: 193 degrees

TIDAL ANALYSIS

Error flagged records interpolated for velocity: 0, records not int.: 0
 Tidal analysis performed on unfiltered data

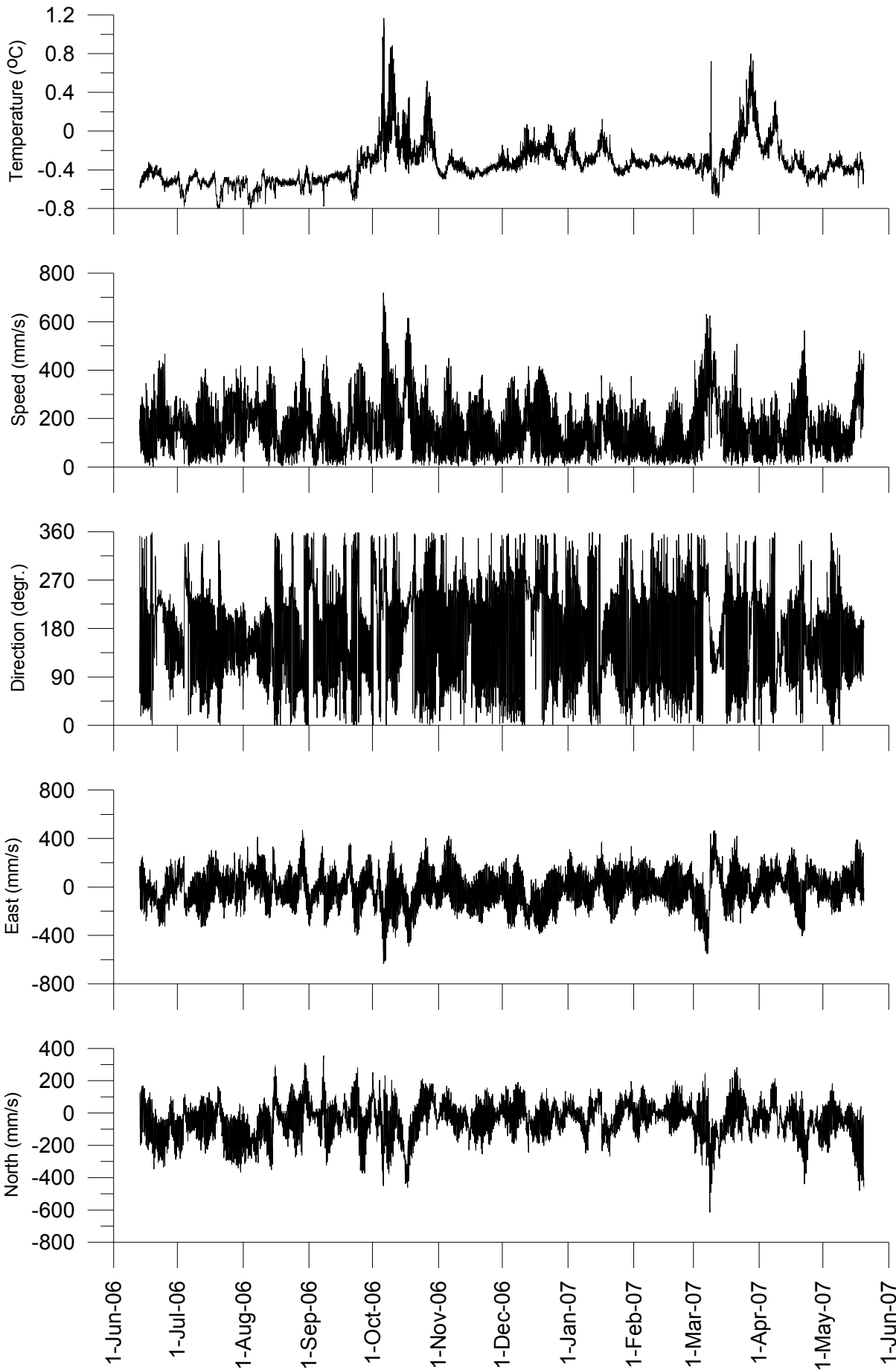
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	18	342	23	336	29	1	52	338	A
MSF	.00282193	15	149	5	166	15	1	19	151	C
Q1	.03721850	4	341	5	357	6	1	50	350	C
O1	.03873065	10	16	7	35	13	2	35	22	C
NO1	.04026859	0	294	1	18	1	0	88	17	C
P1	.04155259	2	276	1	343	2	1	30	296	C
K1	.04178075	7	230	3	246	8	1	22	232	C
N2	.07899925	26	216	11	242	28	5	21	220	C
M2	.08051140	148	251	89	245	173	8	31	250	A
L2	.08202355	10	300	12	223	13	9	65	242	A
S2	.08333334	45	295	40	296	61	1	42	296	C
K2	.08356149	10	315	15	309	18	1	55	311	A
MK3	.12229210	1	220	0	256	1	0	17	224	C
M4	.16102280	1	273	1	283	2	0	41	277	C
MS4	.16384470	2	286	1	25	2	1	175	104	C

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	9	10	10	11	11	11	9	11	12	10	6	6	116	116
50 - 100	13	21	26	21	16	15	17	24	27	13	8	9	210	327
100 - 150	7	21	35	19	14	12	18	29	29	10	4	4	202	529
150 - 200	5	19	28	16	10	9	14	34	23	4	3	2	166	695
200 - 300	3	22	30	13	11	11	23	51	31	5	1	1	204	899
300 - 400	0.49	5	8	5	3	3	10	22	16	1	0	0	74	972
400 - 500	0	1	2	2	0.12	1	3	9	4	0	0	0	20	992
500 - 600	0	0.12	0	0	0.37	0.12	0.49	3	1	0	0	0	5	998
600 - 700	0	0	0	0	0	0	0.24	1	1	0	0	0	2	1000
700 - 800	0	0	0	0	0	0	0	0.12	0.12	0	0	0	.24	1000
Total (ppt)	38	98	139	87	64	62	95	184	145	43	23	23		
Rel.flux (ppt)	24	94	138	79	54	53	106	234	162	30	13	12		
Avg.spd (mm/s)	103	155	161	148	136	139	181	207	182	113	93	88		
Max.spd (mm/s)	343	507	490	493	575	522	625	719	710	390	296	284		

NWSC0606 Aanderaa 718



NWSC0606 Aanderaa 718

