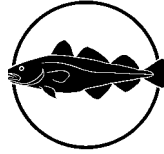


# **The Faroese Fisheries Laboratory**

**Fiskirannsóknarstovan**



## **Nordic WOCE ADCP Deployments in Faroese Waters 2005 - 2006**

**By**

**Ebba Mortensen, Karin Margretha H. Larsen, Bogi Hansen,  
Regin Kristiansen, and Svein Østerhus**

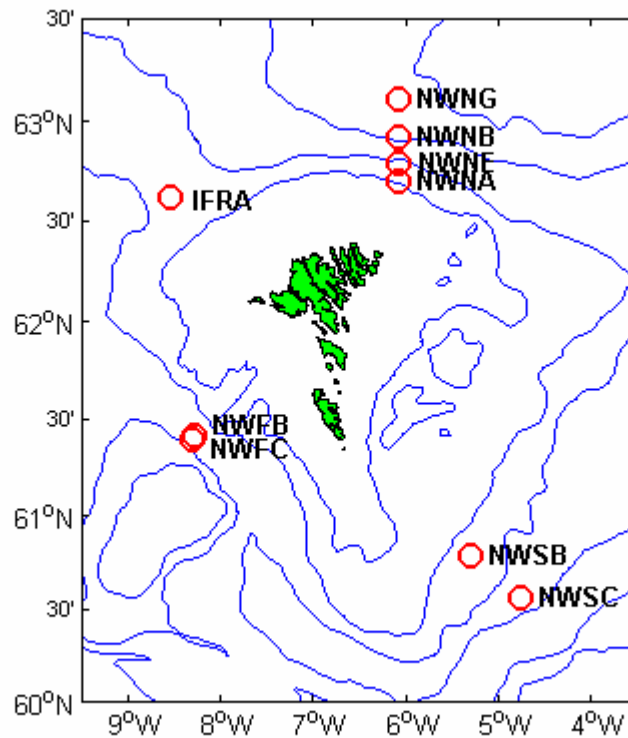
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## Introduction

This report documents nine ADCP deployments in Faroese waters in 2005 – 2006. Aanderaa Current Meters are included in two, and Microcats in two 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. Two deployments were at NWNB and one at each of the other sites. At site NWNB the mooring broke loose and was recovered in January, data downloaded, and the mooring redeployed. An additional mooring, IFRA, was located on the Iceland-Faroe Ridge. The mooring at site IFRA, which included a Microcat, could not be recovered although several attempts were made.



**Figure 1.** ADCP mooring sites in Faroese waters 2005-2006 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 NWNb and NWNc, "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 NWNb 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 site NWSC, an Aanderaa current meter was on the mooring line below the ADCP. At site NWNG, two Aanderaa current meters were 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.

**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. 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
NWFB0506	817	20	2005 06 11-2006 05 24	346	27	125- 775	Microcat
NWFC0506	815	20	2005 06 11-2006 05 24	346	25	173- 773	
NWNA0506	303	20	2005 06 11-2006 05 23	346	24	56- 286	
NWNB0506	956	20	2005 06 11-2006 01 27	230	23	116- 666	
NWNB0602	942	20	2006 02 16-2006 05 22	95	19	202- 652	
NWNE0506	456	20	2005 06 11-2006 05 23	346	15	74- 424	
NWNG0506	1803	20	2005 06 11-2006 05 22	345	22	68- 593	2 Aanderaas
NWSB0506	789	20	2005 06 12-2006 05 19	341	21	145- 645	
NWSC0506	1070	20	2005 06 12-2006 05 19	341	23	65- 615	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 and NWFC. The instrument depth at site NWFC is 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. Salinity from the Aanderaa instruments is not calibrated.

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

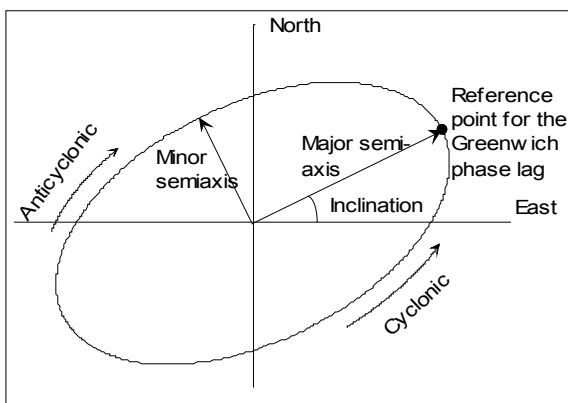
For each deployment, the report contains several pages, beginning with a page that has a drawing of the mooring and details of the deployment. After that, there are some pages describing the ADCP data, beginning with a page with detailed error statistics for the deployment which indicates also how many “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 all the 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 1-2 pages show 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 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: NWFB0506**

**Latitude:** 61°24.897'N

**Longitude:** 08°17.097'W

**Echo sounding depth:** 823m

**Bottom depth corr.:** 817m (determined from MC-data)

**Time of deployment:** 11/6 -2005 1702UTC

**Time of recovery:** 24/5 - 2006 0300UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1642

**Instrument frequency:** 75kHz

**Height above bottom:** 6m

**Depth:** 811m (corr.)

**Time of first data:** 11/6 - 2005 1740UTC

**Time of last data:** 24/5 - 2006 0240UTC

**Sample interval:** 20 min

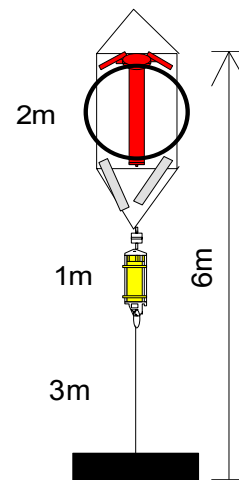
**No. of ensembles:** 24940

**Pings per ens.:** 1

**Binlength:** 25m

**Depth of first bin:** 775m (corr.)

**No. of bins:** 27



### **Micro Cat:**

**Instrument no.:** 1993

**Height above bottom:** 5m

**Time of first data:** 11/6 - 2005 1707UTC

**Time of last data:** 24/05 - 2006 0257UTC

**Sample interval:** 10 min

**No. of ensembles:** 49884

**Instrument depth:** 812m

**Data:** The salinity observations from the MicroCat could not be used.

## NWFB0506 ADCP 1642

Error statistics for deployment: NWFB0506 updated 2006/08/15

Surface distance invalid due to range limitation  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 27 by EJ in Jul 2006  
 Intensity edited up to and including bin 27 by EM in Jun 2006

Total number of ensembles: 24940  
 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: 150

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	22	0	22	0	0	0	0	0	0	0	0	0
2	0	23	0	23	0	0	0	0	0	0	0	0	0
3	0	22	0	22	0	0	0	0	0	0	0	0	0
4	0	19	0	19	0	0	0	0	0	0	0	0	0
5	0	19	0	17	1	0	0	0	0	0	0	0	0
6	0	48	0	32	3	2	1	0	0	0	0	0	0
7	0	124	0	112	4	0	1	0	0	0	0	0	0
8	0	311	1	252	23	3	1	0	0	0	0	0	0
9	0	565	2	444	44	8	1	1	0	0	0	0	0
10	0	578	2	472	42	6	1	0	0	0	0	0	0
11	0	487	2	395	29	6	4	0	0	0	0	0	0
12	0	314	1	264	19	4	0	0	0	0	0	0	0
13	0	216	1	188	9	2	1	0	0	0	0	0	0
14	0	178	1	155	6	2	0	1	0	0	0	0	0
15	0	165	1	141	9	2	0	0	0	0	0	0	0
16	0	290	1	245	13	5	1	0	0	0	0	0	0
17	0	466	2	352	43	8	1	0	0	0	0	0	0
18	0	881	4	634	87	16	5	1	0	0	0	0	0
19	0	1430	6	959	134	36	12	3	5	0	0	0	0
20	0	1797	7	1113	202	57	17	3	4	0	0	0	0
21	0	1810	7	1214	180	42	14	7	3	0	0	0	0
22	0	1664	7	1183	136	50	12	1	1	0	0	0	0
23	0	1562	6	1081	156	29	10	6	2	0	0	0	0
24	0	1545	6	1093	140	28	17	4	0	0	0	0	0
25	0	2169	9	1390	240	56	14	7	6	0	0	0	0
26	0	4517	18	2146	574	167	71	26	37	3	0	0	0
27	0	9746	39	2633	957	447	263	132	219	32	5	1	0

## NWFB0506 ADCP 1642

Deployment: NWFB0506 updated 2006/08/15  
Instrument no.: 1642  
Instrument freq.: 75  
Latitude: 61 24.897 N  
Longitude: 08 17.097 W  
Bottom depth: 817  
Instrument depth: 811  
Center depth of first bin: 775  
Bin length: 25  
Number of bins: 27  
Number of first ensemble: 366  
Time of first ensemble: 2005 06 11 17 40  
Number of last ensemble: 25305  
Time of last ensemble: 2006 05 24 02 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	775	42	938	929	300	999
2	750	67	1007	998	303	999
3	725	92	1032	1024	305	999
4	700	117	1040	1032	306	999
5	675	142	1037	1029	307	999
6	650	167	1016	1007	308	998
7	625	192	956	945	309	995
8	600	217	837	820	312	988
9	575	242	675	644	315	977
10	550	267	512	451	318	977
11	525	292	382	284	322	980
12	500	317	296	167	325	987
13	475	342	248	94	328	991
14	450	367	222	49	335	993
15	425	392	206	17	1	993
16	400	417	196	17	112	988
17	375	442	189	39	135	981
18	350	467	184	64	143	965
19	325	492	182	89	147	943
20	300	517	175	105	150	928
21	275	542	167	114	153	927
22	250	567	156	113	155	933
23	225	592	143	109	155	937
24	200	617	132	102	155	938
25	175	642	121	94	157	913
26	150	667	112	85	161	819
27	125	692	109	75	167	609



## NWFB0506 ADCP 1642

Deployment: NWFB0506

Frequency of high speeds.

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

Bin Depth  no.  m	Speed (cm/s)																	
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1  775	999	999	999	999	996	984	943	835	631	347	122	26	4	0	0	0	0	0
2  750	999	999	999	999	997	991	970	910	776	556	273	80	14	2	0	0	0	0
3  725	999	999	999	999	998	990	975	925	813	624	348	122	24	3	0	0	0	0
4  700	999	999	999	999	998	990	974	924	819	647	372	140	27	4	0	0	0	0
5  675	999	999	999	999	998	990	971	916	809	640	374	137	28	4	0	0	0	0
6  650	998	998	998	998	996	986	953	885	761	587	336	121	24	3	0	0	0	0
7  625	995	995	994	990	976	941	882	783	639	463	256	89	18	2	0	0	0	0
8  600	985	976	957	923	876	806	710	587	451	304	150	47	10	1	0	0	0	0
9  575	960	909	840	760	675	590	491	382	269	152	63	21	5	1	0	0	0	0
10  550	926	807	675	568	477	385	287	190	112	51	20	8	2	0	0	0	0	0
11  525	900	719	534	393	281	190	117	65	33	16	7	3	0	0	0	0	0	0
12  500	882	644	403	237	132	70	36	19	10	5	2	0	0	0	0	0	0	0
13  475	860	567	302	131	56	25	13	6	3	1	0	0	0	0	0	0	0	0
14  450	837	511	236	80	25	9	4	2	1	0	0	0	0	0	0	0	0	0
15  425	817	471	188	56	15	4	2	1	0	0	0	0	0	0	0	0	0	0
16  400	798	433	161	42	10	2	1	0	0	0	0	0	0	0	0	0	0	0
17  375	778	406	141	32	7	2	1	0	0	0	0	0	0	0	0	0	0	0
18  350	748	388	129	29	7	2	1	0	0	0	0	0	0	0	0	0	0	0
19  325	705	373	131	31	7	3	1	1	0	0	0	0	0	0	0	0	0	0
20  300	656	353	126	29	8	3	2	1	0	0	0	0	0	0	0	0	0	0
21  275	612	333	121	28	7	3	2	1	0	0	0	0	0	0	0	0	0	0
22  250	582	306	103	23	4	1	0	0	0	0	0	0	0	0	0	0	0	0
23  225	539	263	83	17	3	1	0	0	0	0	0	0	0	0	0	0	0	0
24  200	496	229	68	14	2	1	0	0	0	0	0	0	0	0	0	0	0	0
25  175	440	198	57	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0
26  150	349	159	51	13	3	1	0	0	0	0	0	0	0	0	0	0	0	0
27  125	240	119	47	15	5	2	1	0	0	0	0	0	0	0	0	0	0	0

## NWFB0506 ADCP 1642

Harmonic constants for constituent M2 for deployment NWFB0506.

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	775	23	68	18	339	23	18	2	67	A
02	750	27	69	16	334	27	16	175	252	A
03	725	28	76	14	333	28	14	172	260	A
04	700	28	84	13	334	29	12	170	268	A
05	675	28	92	13	322	29	9	162	277	A
06	650	27	107	12	301	29	3	156	289	A
07	625	31	132	11	275	32	6	163	309	C
08	600	36	156	11	263	37	11	174	334	C
09	575	40	185	16	223	42	9	18	189	C
10	550	48	221	36	195	58	13	36	212	A
11	525	59	240	60	182	74	40	46	210	A
12	500	67	250	78	178	84	59	58	202	A
13	475	71	258	88	178	90	68	72	192	A
14	450	71	265	95	179	95	71	83	184	A
15	425	70	271	96	182	96	70	87	184	A
16	400	68	274	93	185	93	68	89	186	A
17	375	66	279	89	188	89	66	91	188	A
18	350	62	281	81	189	81	62	94	187	A
19	325	55	281	68	190	68	55	91	190	A
20	300	42	281	51	195	51	42	80	204	A
21	275	34	280	38	197	38	33	66	218	A
22	250	28	281	29	201	31	26	49	237	A
23	225	23	281	23	203	25	20	46	241	A
24	200	19	281	19	206	21	16	40	249	A
25	175	17	281	16	216	20	13	42	252	A
26	150	15	278	14	229	19	9	44	254	A
27	125	18	284	17	233	22	11	42	261	A

Harmonic constants for constituent S2 for deployment NWFB0506.

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	775	10	67	8	32	12	4	37	54	A
02	750	10	73	7	24	12	5	29	61	A
03	725	10	81	6	15	11	6	20	70	A
04	700	8	81	5	4	8	5	13	73	A
05	675	6	78	5	340	6	5	163	272	A
06	650	1	73	5	302	5	1	100	300	A
07	625	5	219	4	270	6	3	37	239	C
08	600	12	209	3	181	12	2	15	207	A
09	575	14	216	7	163	15	5	19	209	A
10	550	17	265	14	203	19	11	34	244	A
11	525	26	292	28	211	29	25	54	243	A
12	500	29	300	39	215	40	29	82	221	A
13	475	32	298	44	213	45	31	84	217	A
14	450	31	296	45	210	45	31	85	214	A
15	425	28	299	43	211	43	28	87	213	A
16	400	25	303	40	215	40	25	88	216	A
17	375	23	308	36	219	36	23	89	220	A
18	350	19	315	31	224	31	19	91	224	A
19	325	15	315	25	228	25	15	87	229	A
20	300	10	309	17	228	18	10	81	233	A
21	275	7	296	11	246	12	5	62	258	A
22	250	5	293	7	284	9	1	55	287	A
23	225	5	294	5	331	7	2	47	313	C
24	200	4	307	2	334	5	1	29	313	C
25	175	3	297	3	255	4	2	43	277	A
26	150	2	289	3	284	4	0	58	286	A
27	125	4	323	4	316	6	0	44	320	A

## NWFB0506 ADCP 1642

Harmonic constants for constituent N2 for deployment NWFB0506.

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	775	6	78	3	354	6	3	4	75	A
02	750	7	68	4	351	7	4	9	64	A
03	725	9	74	3	346	9	3	1	74	A
04	700	9	77	3	343	9	3	178	258	A
05	675	8	69	4	321	8	4	171	253	A
06	650	9	59	6	289	10	4	152	251	A
07	625	8	63	8	272	11	3	132	259	A
08	600	6	98	9	266	11	1	124	270	C
09	575	7	139	3	299	8	1	158	316	C
10	550	7	149	1	149	7	0	7	149	A
11	525	6	200	6	157	8	3	49	176	A
12	500	9	221	11	166	13	6	57	184	A
13	475	11	227	15	165	17	9	63	180	A
14	450	11	235	18	162	18	10	74	171	A
15	425	12	243	18	160	19	12	82	165	A
16	400	12	245	19	159	19	12	86	162	A
17	375	13	251	19	161	19	13	90	161	A
18	350	13	253	18	163	18	13	90	164	A
19	325	11	245	13	165	13	11	63	187	A
20	300	8	245	9	177	9	6	54	202	A
21	275	7	237	6	194	8	3	41	218	A
22	250	6	236	4	210	7	2	36	227	A
23	225	3	235	3	222	4	0	40	229	A
24	200	4	251	3	201	4	2	29	238	A
25	175	4	243	4	203	5	2	41	226	A
26	150	2	235	3	240	4	0	50	238	C
27	125	4	253	7	228	8	1	66	232	A

Harmonic constants for constituent O1 for deployment NWFB0506.

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	775	17	328	6	153	18	0	162	149	A
02	750	20	325	7	153	21	1	162	145	A
03	725	20	323	8	144	22	0	158	143	A
04	700	20	323	10	142	22	0	154	142	C
05	675	21	326	10	144	23	0	154	146	C
06	650	25	328	10	149	27	0	159	149	A
07	625	30	333	14	154	33	0	155	153	A
08	600	37	336	22	159	43	1	149	157	A
09	575	38	340	27	159	47	0	144	159	C
10	550	34	347	28	162	44	2	141	165	C
11	525	28	352	25	169	38	1	139	171	C
12	500	23	353	21	170	31	1	137	172	C
13	475	18	3	17	171	25	2	137	177	C
14	450	16	11	14	176	21	3	140	185	C
15	425	15	8	12	179	19	1	141	185	C
16	400	13	8	11	179	17	1	139	184	C
17	375	12	14	9	185	15	1	142	190	C
18	350	9	17	8	185	12	1	141	192	C
19	325	7	28	5	172	8	3	145	196	C
20	300	6	47	7	193	9	3	128	207	C
21	275	7	60	7	204	9	3	135	222	C
22	250	5	75	4	213	6	2	146	242	C
23	225	3	76	1	150	3	1	5	77	C
24	200	2	62	2	91	3	1	52	80	C
25	175	0	142	1	63	1	0	86	64	A
26	150	2	233	1	91	2	1	162	57	A
27	125	4	262	1	316	4	1	7	263	C

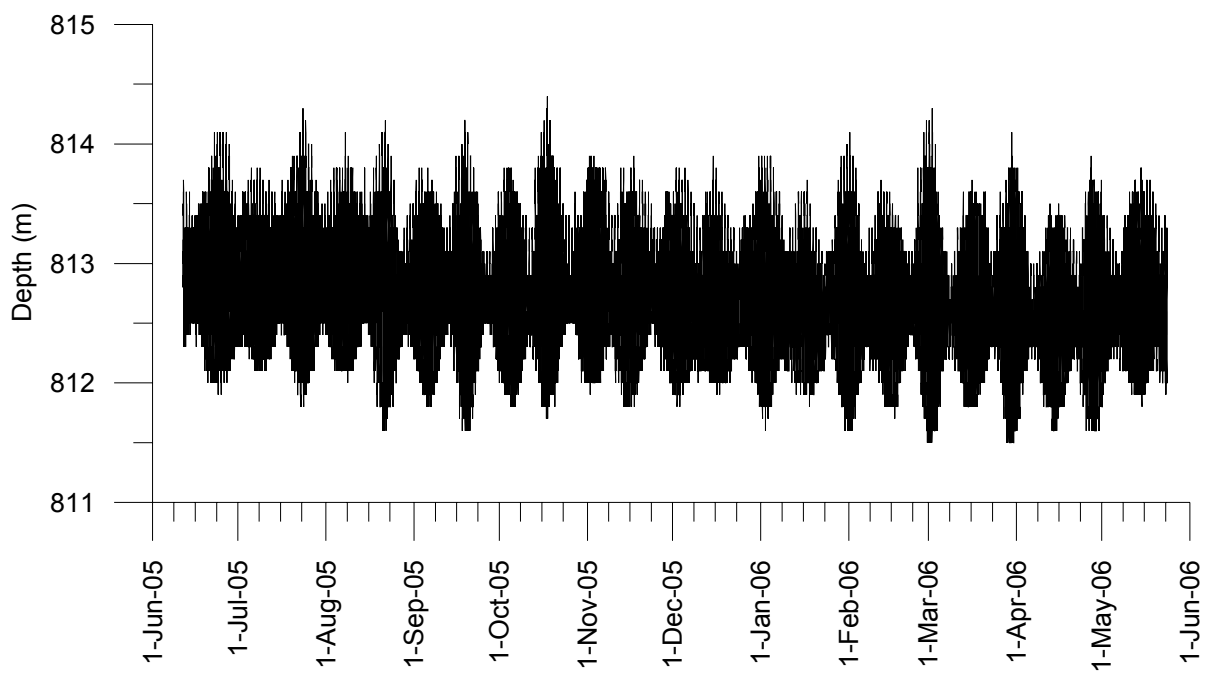
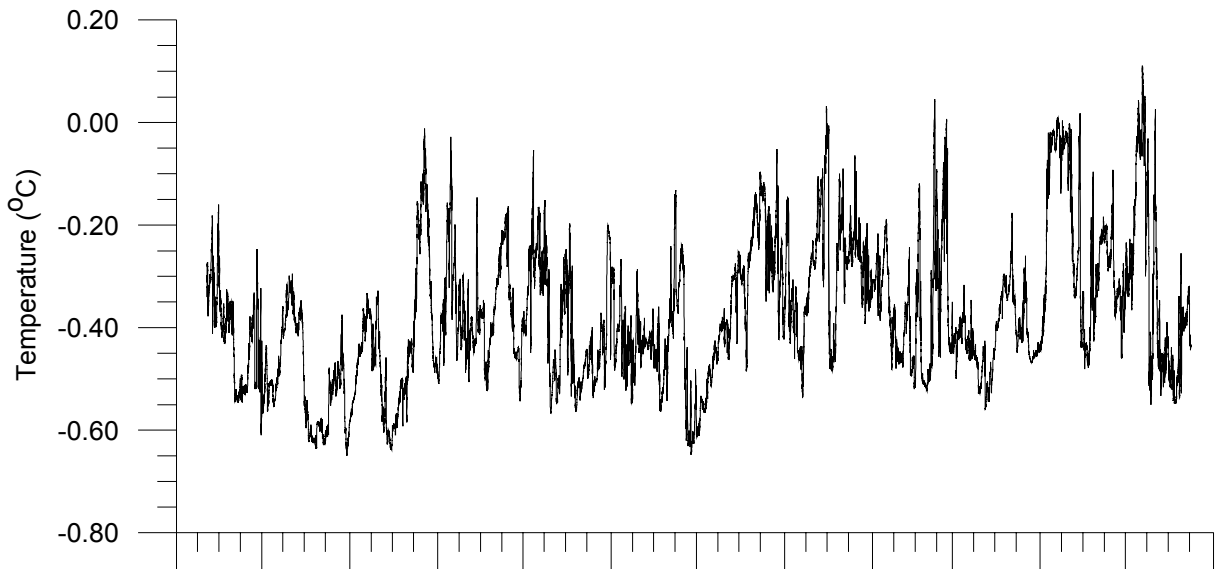
## **NWFB0506 ADCP 1642**

Harmonic constants for constituent K1 for deployment NWFB0506.

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	775	21	228	7	50	22	0	162	48	A
02	750	22	228	8	49	23	0	160	48	A
03	725	23	226	10	48	25	0	157	47	A
04	700	23	227	11	51	25	1	155	48	A
05	675	23	230	12	45	25	1	153	49	C
06	650	27	235	12	45	29	2	156	54	C
07	625	33	239	16	56	37	1	154	58	C
08	600	39	242	23	61	45	0	150	62	C
09	575	40	243	28	64	49	1	144	63	A
10	550	33	243	31	63	45	0	137	63	C
11	525	24	244	30	62	38	1	130	63	C
12	500	18	247	25	68	31	0	126	67	A
13	475	15	249	25	69	29	0	120	69	C
14	450	13	262	25	70	28	2	117	73	C
15	425	12	273	25	73	27	4	115	77	C
16	400	12	274	25	75	27	4	115	78	C
17	375	11	275	25	75	27	4	114	78	C
18	350	8	296	18	81	20	4	112	87	C
19	325	8	329	14	110	15	5	117	118	C
20	300	10	347	13	133	16	5	125	145	C
21	275	10	353	16	144	18	4	122	153	C
22	250	11	353	15	146	18	4	125	156	C
23	225	8	2	10	144	12	4	127	158	C
24	200	4	31	4	128	4	3	165	199	C
25	175	3	40	1	78	3	0	10	42	C
26	150	4	34	2	220	4	0	147	215	A
27	125	2	26	3	184	3	1	126	192	C

## NWFB0506 MicroCat 1993

The salinity observations from the MicroCat could not be used.



## **Deployment Id: NWFC0506**

**Latitude:** 61°23.365'N

**Longitude:** 08°19.094'W

**Echo sounding depth:** 824m

**Bottom depth corr.:** 815m

**Time of deployment:** 11/06 -2005 1728UTC

**Time of recovery:** 24/5 - 2006 0222UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1285

**Instrument frequency:** 75kHz

**Height above bottom:** 6m

**Depth:** 809m (corr.)

**Time of first data:** 11/06 - 2005 1800UTC

**Time of last data:** 24/05 - 2006 0200UTC

**Sample interval:** 20 min

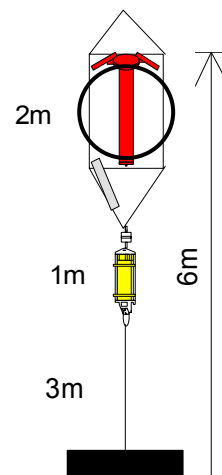
**No. of ensembles:** 24937

**Pings per ens.:** 1

**Binlength:** 25m

**Depth of first bin:** 773m (corr.)

**No. of bins:** 25



**Data:** All data OK

## NWFC0506 ADCP 1285

Error statistics for deployment: NWFC0506 updated 2006/08/15

Surface distance invalid due to range limitation  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 25 by EJ in Jul 2006  
 Intensity edited up to and including bin 25 by EM in Jun 2006

Total number of ensembles: 24937  
 Interval between ensembles: 20 min  
 Original number of bins: 32  
 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: 3

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	67	0	65	1	0	0	0	0	0	0	0	0	0
2	0	75	0	71	2	0	0	0	0	0	0	0	0	0
3	0	148	1	135	5	1	0	0	0	0	0	0	0	0
4	0	316	1	281	16	1	0	0	0	0	0	0	0	0
5	0	702	3	556	55	12	0	0	0	0	0	0	0	0
6	0	1352	5	995	130	24	5	1	0	0	0	0	0	0
7	0	1477	6	1104	138	25	3	2	0	0	0	0	0	0
8	0	1150	5	829	115	16	4	3	2	0	0	0	0	0
9	0	924	4	660	92	17	6	1	0	0	0	0	0	0
10	0	628	3	474	58	10	2	0	0	0	0	0	0	0
11	0	412	2	290	37	12	3	0	0	0	0	0	0	0
12	0	339	1	249	29	6	2	0	1	0	0	0	0	0
13	0	330	1	261	22	7	1	0	0	0	0	0	0	0
14	0	283	1	205	25	4	2	0	1	0	0	0	0	0
15	0	233	1	173	17	4	2	0	1	0	0	0	0	0
16	0	190	1	142	11	6	2	0	0	0	0	0	0	0
17	0	238	1	172	23	3	0	1	1	0	0	0	0	0
18	0	462	2	231	27	10	7	3	6	4	0	0	0	0
19	0	1101	4	360	54	29	14	13	13	14	5	0	0	0
20	1	2500	10	534	116	69	31	36	52	34	13	0	0	0
21	1	4171	17	694	185	81	52	44	99	73	22	2	0	0
22	1	5551	22	905	251	119	76	55	142	73	26	9	1	1
23	1	7249	29	1093	345	154	97	62	188	94	38	14	1	1
24	1	8943	36	1238	343	180	96	76	200	121	38	32	5	5
25	1	10659	43	1292	433	198	102	78	196	108	44	46	16	16

## **NWFC0506 ADCP 1285**

Deployment: NWFC0506 updated 2006/08/15  
Instrument no.: 1285  
Instrument freq.: 75  
Latitude: 61 23.365 N  
Longitude: 08 19.094 W  
Bottom depth: 815  
Instrument depth: 809  
Center depth of first bin: 773  
Bin length: 25  
Number of bins: 25  
Number of first ensemble: 367  
Time of first ensemble: 2005 06 11 18 00  
Number of last ensemble: 25303  
Time of last ensemble: 2006 05 24 02 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	773	42	951	945	301	997
2	748	67	1016	1011	304	997
3	723	92	1020	1015	306	994
4	698	117	981	976	308	987
5	673	142	885	878	308	972
6	648	167	710	688	308	946
7	623	192	516	439	311	941
8	598	217	376	217	317	954
9	573	242	287	73	337	963
10	548	267	241	39	75	975
11	523	292	223	76	106	983
12	498	317	215	96	112	986
13	473	342	212	106	116	987
14	448	367	212	111	118	989
15	423	392	213	115	120	991
16	398	417	214	117	121	992
17	373	442	216	118	122	990
18	348	467	217	119	123	981
19	323	492	218	120	124	956
20	298	517	220	121	124	900
21	273	542	221	122	124	833
22	248	567	222	123	125	777
23	223	592	221	123	125	709
24	198	617	219	121	125	641
25	173	642	217	119	126	573



# NWFC0506 ADCP 1285

Deployment: NWFC0506

Frequency of high speeds.

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

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  773	995	992	990	987	981	966	929	828	649	412	190	57	10	1	0	0	0	0
2  748	994	992	990	988	982	972	952	896	773	584	346	139	31	4	0	0	0	0
3  723	991	988	985	983	977	966	944	888	774	591	362	151	37	5	1	0	0	0
4  698	985	980	976	971	962	943	908	831	696	501	295	117	28	6	1	0	0	0
5  673	967	954	939	920	888	837	763	652	510	364	213	88	25	5	1	0	0	0
6  648	916	857	798	739	670	596	515	423	321	220	127	50	13	2	1	0	0	0
7  623	870	728	604	516	441	373	304	232	159	96	48	17	4	1	0	0	0	0
8  598	862	658	474	345	253	188	137	89	54	30	15	6	2	0	0	0	0	0
9  573	847	592	351	200	118	73	45	27	15	9	4	2	1	0	0	0	0	0
10  548	837	537	269	117	51	25	12	8	4	2	1	1	0	0	0	0	0	0
11  523	829	512	232	85	27	9	4	2	1	0	0	0	0	0	0	0	0	0
12  498	830	499	211	73	20	4	1	0	0	0	0	0	0	0	0	0	0	0
13  473	824	487	200	69	19	4	1	0	0	0	0	0	0	0	0	0	0	0
14  448	830	483	199	70	19	4	0	0	0	0	0	0	0	0	0	0	0	0
15  423	831	486	204	74	20	4	1	0	0	0	0	0	0	0	0	0	0	0
16  398	832	489	208	77	22	4	1	0	0	0	0	0	0	0	0	0	0	0
17  373	830	496	215	78	23	4	1	0	0	0	0	0	0	0	0	0	0	0
18  348	825	493	218	80	26	5	1	0	0	0	0	0	0	0	0	0	0	0
19  323	804	480	214	80	28	5	1	0	0	0	0	0	0	0	0	0	0	0
20  298	760	458	202	79	29	7	1	0	0	0	0	0	0	0	0	0	0	0
21  273	700	424	191	73	28	8	2	0	0	0	0	0	0	0	0	0	0	0
22  248	656	395	181	72	26	7	1	0	0	0	0	0	0	0	0	0	0	0
23  223	596	359	165	66	24	7	1	0	0	0	0	0	0	0	0	0	0	0
24  198	533	319	145	58	23	8	1	0	0	0	0	0	0	0	0	0	0	0
25  173	471	277	126	51	20	8	2	0	0	0	0	0	0	0	0	0	0	0

## NWFC0506 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC0506.

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	773	14	83	8	243	16	2	152	259	C
02	748	16	81	9	245	18	2	152	257	C
03	723	20	81	12	256	23	1	149	260	C
04	698	24	82	20	279	31	5	141	269	A
05	673	35	83	36	292	49	13	134	278	A
06	648	59	93	43	301	71	16	145	283	A
07	623	70	107	31	313	75	13	157	291	A
08	598	55	129	6	61	55	6	2	129	A
09	573	45	171	37	120	52	25	36	152	A
10	548	51	200	58	126	62	45	58	150	A
11	523	57	214	71	131	72	55	76	142	A
12	498	59	223	77	136	77	59	84	141	A
13	473	60	232	81	143	81	60	88	144	A
14	448	60	240	85	149	85	60	91	149	A
15	423	61	247	87	154	87	60	94	152	A
16	398	62	252	90	158	90	62	95	155	A
17	373	65	256	92	162	92	65	96	157	A
18	348	67	259	94	164	94	67	96	160	A
19	323	69	263	97	167	98	68	98	161	A
20	298	70	266	99	170	100	69	98	164	A
21	273	73	267	102	171	103	72	98	166	A
22	248	71	270	100	174	101	71	98	168	A
23	223	71	269	99	175	99	71	95	172	A
24	198	71	271	99	178	99	71	94	175	A
25	173	70	275	101	182	102	69	94	179	A

Harmonic constants for constituent S2 for deployment NWFC0506.

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	773	2	73	2	255	3	0	142	254	A
02	748	3	67	2	257	4	0	143	251	A
03	723	4	80	3	284	5	1	147	267	A
04	698	6	98	5	318	7	3	139	295	A
05	673	12	117	10	336	15	5	139	314	A
06	648	22	123	13	343	24	8	151	313	A
07	623	27	137	11	2	28	7	163	321	A
08	598	22	168	4	107	22	4	6	167	A
09	573	20	216	18	156	23	13	40	190	A
10	548	23	240	29	162	30	22	68	178	A
11	523	24	255	34	166	34	24	89	167	A
12	498	23	258	33	171	33	23	86	174	A
13	473	20	264	32	178	32	20	86	180	A
14	448	19	272	33	182	33	19	90	183	A
15	423	20	279	35	185	35	20	94	183	A
16	398	21	285	36	187	36	20	97	183	A
17	373	21	292	37	191	37	21	100	185	A
18	348	22	298	37	196	37	21	101	190	A
19	323	23	300	35	200	35	23	101	193	A
20	298	23	303	33	207	33	22	98	201	A
21	273	23	301	33	210	33	23	92	209	A
22	248	22	307	33	215	33	22	93	213	A
23	223	22	310	34	214	35	22	96	210	A
24	198	25	308	34	218	34	25	90	218	A
25	173	25	306	32	215	32	25	93	212	A

## NWFC0506 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC0506.

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	773	4	34	2	307	4	2	2	33	A
02	748	4	40	1	268	4	1	168	223	A
03	723	5	52	2	270	5	1	161	236	A
04	698	7	53	4	273	8	2	155	241	A
05	673	7	43	8	268	10	4	132	247	A
06	648	10	52	11	277	14	6	131	257	A
07	623	17	85	13	296	20	5	144	276	A
08	598	16	90	8	312	17	5	157	277	A
09	573	13	95	0	198	13	0	180	275	C
10	548	10	125	8	120	13	1	39	123	A
11	523	9	162	14	107	15	7	64	119	A
12	498	9	181	16	109	16	9	75	117	A
13	473	10	190	17	116	17	9	77	124	A
14	448	9	202	18	123	18	9	82	127	A
15	423	10	218	19	129	19	10	89	129	A
16	398	11	235	20	133	20	10	98	129	A
17	373	12	244	20	140	21	12	102	133	A
18	348	13	247	22	144	22	12	101	139	A
19	323	13	252	23	146	23	13	103	139	A
20	298	13	252	24	153	24	13	97	149	A
21	273	14	236	22	154	23	14	81	160	A
22	248	14	237	21	150	21	14	86	153	A
23	223	12	231	21	152	21	11	82	156	A
24	198	13	238	23	151	23	13	87	153	A
25	173	15	255	25	150	26	14	102	144	A

Harmonic constants for constituent O1 for deployment NWFC0506.

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	773	13	343	6	157	15	1	157	163	C
02	748	16	341	7	164	17	0	156	161	A
03	723	18	339	10	162	21	0	151	159	A
04	698	21	340	15	163	26	1	143	161	A
05	673	28	339	23	160	36	0	140	160	A
06	648	40	338	30	162	50	2	143	159	A
07	623	44	339	31	166	54	3	145	161	A
08	598	39	344	28	173	48	4	144	167	A
09	573	30	351	26	179	39	3	139	174	A
10	548	23	357	22	183	32	2	136	180	A
11	523	20	1	19	185	27	1	136	183	A
12	498	18	1	17	184	24	1	137	182	A
13	473	16	4	16	181	23	1	135	183	C
14	448	16	2	16	180	23	0	135	181	C
15	423	16	357	17	178	23	0	134	178	A
16	398	16	356	17	177	23	0	134	176	A
17	373	16	356	17	175	24	0	134	176	C
18	348	16	355	17	176	23	0	135	176	A
19	323	17	357	16	179	23	1	137	178	A
20	298	17	356	14	182	22	1	140	179	A
21	273	17	3	15	187	22	1	139	185	A
22	248	18	357	14	188	23	2	142	182	A
23	223	19	356	15	182	24	1	142	178	A
24	198	19	348	13	178	23	2	145	171	A
25	173	16	346	12	174	20	1	144	169	A

## NWFC0506 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC0506.

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	773	16	224	9	43	18	0	151	43	C
02	748	18	225	10	43	20	0	150	45	C
03	723	19	227	12	51	23	1	149	48	A
04	698	20	234	16	64	25	2	142	58	A
05	673	25	250	22	73	33	1	138	71	A
06	648	34	254	28	74	44	0	141	74	A
07	623	37	249	28	73	47	1	143	71	A
08	598	32	244	27	72	42	3	140	67	A
09	573	29	243	27	72	39	3	137	67	A
10	548	25	248	26	69	36	1	134	69	A
11	523	22	254	25	71	33	1	131	72	C
12	498	19	258	23	71	30	2	129	74	C
13	473	17	264	23	69	28	4	127	74	C
14	448	15	268	23	67	27	5	122	73	C
15	423	15	266	24	65	28	5	120	70	C
16	398	15	263	25	63	29	4	120	68	C
17	373	15	259	25	64	29	4	120	67	C
18	348	15	258	25	63	29	3	121	67	C
19	323	15	258	24	64	28	3	122	68	C
20	298	15	259	23	68	27	2	124	72	C
21	273	16	259	21	73	27	1	128	75	C
22	248	14	259	19	76	24	1	126	77	C
23	223	14	260	17	71	22	2	128	75	C
24	198	11	256	16	65	19	2	125	69	C
25	173	12	252	17	51	21	4	125	58	C

## **Deployment Id: Nwana0506**

**Latitude:** 62°41.945'N

**Longitude:** 06°04.312'W

**Echo sound depth:** 296m

**Bottom depth corr.:** 303m

**Time of deployment:** 10/06 -2005 2349UTC

**Time of recovery:** 23/5 - 2006 0652UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1279

**Instrument frequency:** 150kHz

**Height above bottom:** 1m

**Depth:** 302m (corr.)

**Time of first data:** 11/06 – 2005 0000UTC

**Time of last data:** 23/05 – 2006 0640UTC

**Sample interval:** 20 min

**No. of ensembles:** 24933

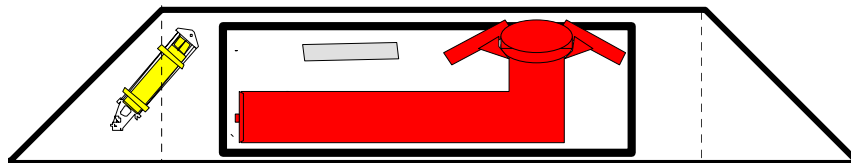
**Pings per ens.:** 1

**Binlength:** 10 m

**Depth of first bin:** 286m (corr.)

**No. of bins:** 24

**Data:** All data OK



## NWNA0506 ADCP 1279

Error statistics for deployment: NWNA0506 updated 2006/08/15

Surface distance not edited  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 24 by EJ in Jul 2006  
 Intensity edited up to and including bin 24 by EM in Jun 2006

Total number of ensembles: 24933  
 Interval between ensembles: 20 min  
 Original number of bins: 30  
 Number of acceptable velocity bins: 24  
 Number of acceptable intensity bins: 24

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	0	2367	9	1686	232	46	6	7	3	0	0	0	0
2	1	2345	9	1644	237	48	9	7	2	0	0	0	0
3	0	2169	9	1545	225	36	9	2	3	0	0	0	0
4	0	1795	7	1363	156	30	6	0	1	0	0	0	0
5	0	1615	6	1227	146	27	1	1	1	0	0	0	0
6	0	1387	6	1065	117	22	3	2	0	0	0	0	0
7	0	1342	5	1030	118	18	3	2	0	0	0	0	0
8	0	1306	5	1027	99	13	9	0	1	0	0	0	0
9	0	1273	5	1034	94	11	2	2	0	0	0	0	0
10	0	1233	5	923	103	17	8	3	1	0	0	0	0
11	0	1235	5	945	99	12	3	3	4	0	0	0	0
12	0	1288	5	952	88	20	7	3	4	2	0	0	0
13	0	1355	5	945	101	33	6	1	4	4	0	0	0
14	0	1469	6	937	115	34	15	9	4	4	0	0	0
15	0	1654	7	952	126	34	17	4	23	4	2	0	0
16	0	2002	8	985	119	58	28	18	30	7	3	0	0
17	0	2485	10	963	150	52	31	25	42	24	5	2	0
18	0	3179	13	999	198	73	39	26	54	28	4	10	0
19	0	4077	16	1174	204	85	48	28	74	41	10	11	1
20	0	5155	21	1318	283	107	51	35	83	53	16	11	4
21	0	6611	27	1521	399	133	58	49	79	67	25	21	5
22	0	8204	33	1630	432	185	86	55	108	62	29	27	15
23	0	9977	40	1607	482	215	105	54	124	64	32	34	26
24	0	11733	47	1624	531	242	129	69	124	77	36	39	35

**NWNA0506 ADCP 1279**

Deployment: NWNA0506 updated 2006/08/15  
 Instrument no.: 1279  
 Instrument freq.: 150  
 Latitude: 62 41.945 N  
 Longitude: 06 04.312 W  
 Bottom depth: 303  
 Instrument depth: 302  
 Center depth of first bin: 286  
 Bin length: 10  
 Number of bins: 24  
 Number of first ensemble: 313  
 Time of first ensemble: 2005 06 11 00 00  
 Number of last ensemble: 25245  
 Time of last ensemble: 2006 05 23 06 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	286	17	201	128	93	905
2	276	27	214	131	96	906
3	266	37	224	132	99	913
4	256	47	233	140	101	928
5	246	57	241	150	102	935
6	236	67	246	158	102	944
7	226	77	248	165	103	946
8	216	87	249	168	103	948
9	206	97	251	172	103	949
10	196	107	252	177	103	951
11	186	117	252	179	103	950
12	176	127	253	183	103	948
13	166	137	254	185	103	946
14	156	147	255	187	103	941
15	146	157	257	190	102	934
16	136	167	259	192	103	920
17	126	177	261	195	103	900
18	116	187	264	198	103	872
19	106	197	270	201	103	836
20	96	207	276	205	103	793
21	86	217	283	208	103	735
22	76	227	294	213	103	671
23	66	237	309	221	104	600
24	56	247	330	228	103	529

# **NWNA0506 ADCP 1279**

Deployment: NWNA0506

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| 286|  717  397  173   62   20    5    1    0    0    0    0    0    0    0    0    0    0    0
 2| 276|  732  428  203   85   30   10    2    1    0    0    0    0    0    0    0    0    0    0
 3| 266|  752  456  229  100   41   14    5    1    0    0    0    0    0    0    0    0    0    0
 4| 256|  777  484  253  117   48   18    6    1    0    0    0    0    0    0    0    0    0    0
 5| 246|  793  509  271  130   57   22    8    2    0    0    0    0    0    0    0    0    0    0
 6| 236|  805  523  287  139   63   25   10    2    0    0    0    0    0    0    0    0    0    0
 7| 226|  805  525  292  147   68   28   11    3    1    0    0    0    0    0    0    0    0    0
 8| 216|  807  528  298  151   69   30   12    4    1    0    0    0    0    0    0    0    0    0
 9| 206|  809  530  300  152   70   30   13    4    1    0    0    0    0    0    0    0    0    0
10| 196|  809  535  306  156   72   32   14    5    2    0    0    0    0    0    0    0    0    0
11| 186|  806  530  306  156   72   33   15    5    2    1    0    0    0    0    0    0    0    0
12| 176|  806  530  305  158   74   34   15    6    3    1    0    0    0    0    0    0    0    0
13| 166|  802  531  306  159   76   35   16    7    3    1    0    0    0    0    0    0    0    0
14| 156|  801  533  307  155   75   36   16    7    3    1    0    0    0    0    0    0    0    0
15| 146|  795  534  308  157   77   37   18    7    3    1    0    0    0    0    0    0    0    0
16| 136|  785  528  310  156   79   38   18    8    3    1    0    0    0    0    0    0    0    0
17| 126|  770  520  310  159   79   38   18    8    3    1    0    0    0    0    0    0    0    0
18| 116|  748  509  306  160   79   37   18    8    4    1    1    0    0    0    0    0    0    0
19| 106|  722  499  303  163   81   40   21    9    4    1    0    0    0    0    0    0    0    0
20|  96|  689  482  298  163   83   42   21   10    4    1    1    0    0    0    0    0    0    0
21|  86|  647  464  288  160   83   41   21   11    5    2    1    0    0    0    0    0    0    0
22|  76|  597  437  277  158   84   43   22   12    6    2    1    0    0    0    0    0    0    0
23|  66|  539  405  269  161   87   46   25   12    6    3    2    1    0    0    0    0    0    0
24|  56|  483  375  257  160   94   52   29   16    9    4    3    2    1    1    1    0    0    0
=====

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## NWNA0506 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA0506.

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	286	134	299	82	184	140	71	160	130	A
02	276	149	299	98	183	157	83	157	131	A
03	266	159	298	109	184	168	94	157	132	A
04	256	168	298	116	186	177	101	157	132	A
05	246	175	299	121	189	183	108	158	133	A
06	236	178	301	123	192	186	111	159	134	A
07	226	180	302	123	194	187	112	161	134	A
08	216	181	304	122	196	187	113	161	135	A
09	206	180	305	121	199	185	113	163	136	A
10	196	180	307	119	201	184	112	164	137	A
11	186	179	308	117	203	183	110	164	138	A
12	176	178	310	114	204	182	107	165	138	A
13	166	175	311	111	207	179	106	166	139	A
14	156	175	312	109	209	178	105	167	140	A
15	146	174	314	106	210	177	101	167	141	A
16	136	172	316	104	212	175	99	168	142	A
17	126	170	317	101	214	172	98	169	143	A
18	116	168	318	97	217	169	95	170	144	A
19	106	166	320	95	219	167	93	171	145	A
20	96	165	321	93	222	166	91	172	146	A
21	86	163	324	88	226	164	86	174	147	A
22	76	162	326	90	231	163	89	176	148	A
23	66	164	328	92	234	164	91	176	150	A
24	56	168	328	96	240	168	96	1	328	A

Harmonic constants for constituent S2 for deployment NWNA0506.

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	286	47	347	27	232	49	24	163	175	A
02	276	50	342	32	233	51	30	163	172	A
03	266	52	341	38	235	54	35	160	175	A
04	256	56	343	41	233	59	36	157	178	A
05	246	62	344	43	233	65	38	158	178	A
06	236	63	345	42	235	66	38	160	176	A
07	226	64	346	42	237	67	38	162	177	A
08	216	65	348	41	239	67	38	162	178	A
09	206	65	347	42	240	67	39	163	177	A
10	196	64	349	42	241	66	39	163	179	A
11	186	64	350	42	240	67	38	161	181	A
12	176	65	350	41	243	67	38	164	179	A
13	166	65	351	40	243	67	37	164	181	A
14	156	65	351	40	245	66	37	165	180	A
15	146	65	352	38	247	66	36	167	180	A
16	136	64	353	38	246	66	36	166	181	A
17	126	64	355	37	247	65	35	166	182	A
18	116	62	355	35	248	63	32	167	182	A
19	106	61	357	34	249	62	32	167	184	A
20	96	61	359	35	247	63	31	164	187	A
21	86	63	360	34	248	65	30	166	187	A
22	76	58	360	35	252	59	32	165	188	A
23	66	61	358	32	246	63	29	166	185	A
24	56	57	359	28	251	58	26	169	184	A

## NWNA0506 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA0506.

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	286	24	280	16	154	26	12	154	112	A
02	276	27	283	16	153	29	11	154	114	A
03	266	29	280	18	155	31	13	156	111	A
04	256	28	277	18	159	30	15	158	108	A
05	246	30	275	20	159	32	17	157	107	A
06	236	32	276	22	163	34	19	158	109	A
07	226	34	277	22	165	36	20	159	109	A
08	216	36	278	24	168	37	21	160	110	A
09	206	36	279	24	169	37	21	160	111	A
10	196	36	281	23	172	38	21	163	111	A
11	186	36	284	24	176	38	22	162	115	A
12	176	36	286	23	180	37	22	166	114	A
13	166	37	288	23	181	38	22	164	117	A
14	156	38	290	23	183	39	22	166	118	A
15	146	39	292	23	185	39	22	166	120	A
16	136	38	293	23	189	38	22	168	120	A
17	126	40	293	24	190	40	23	168	120	A
18	116	39	293	24	195	39	23	172	118	A
19	106	40	295	23	197	40	23	173	119	A
20	96	41	296	22	197	41	22	174	119	A
21	86	41	295	20	195	41	20	174	119	A
22	76	40	297	21	195	41	21	172	121	A
23	66	36	298	19	206	36	19	178	119	A
24	56	35	302	22	204	35	21	172	127	A

Harmonic constants for constituent O1 for deployment NWNA0506.

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	286	19	40	11	325	19	11	13	33	A
02	276	21	37	12	322	22	11	11	32	A
03	266	25	33	11	315	25	11	7	30	A
04	256	26	36	11	313	26	11	4	34	A
05	246	27	36	12	310	27	11	2	35	A
06	236	27	37	11	308	27	11	0	37	A
07	226	30	37	11	312	30	11	2	36	A
08	216	30	36	11	308	30	11	1	36	A
09	206	30	37	11	307	30	11	180	217	A
10	196	30	36	11	303	30	11	179	217	A
11	186	29	38	12	300	29	12	176	220	A
12	176	29	37	12	296	29	12	174	220	A
13	166	30	38	13	296	30	12	174	220	A
14	156	30	38	13	297	30	13	174	221	A
15	146	31	39	13	296	31	13	173	222	A
16	136	29	40	12	295	30	12	173	223	A
17	126	31	39	13	294	31	12	173	222	A
18	116	30	40	13	295	30	12	172	223	A
19	106	32	44	12	292	32	11	171	227	A
20	96	31	40	14	289	32	13	169	224	A
21	86	31	40	13	281	32	11	167	225	A
22	76	30	35	13	277	31	11	167	220	A
23	66	32	29	15	282	33	14	171	213	A
24	56	30	37	15	281	31	13	164	224	A

## NWNA0506 ADCP 1279

Harmonic constants for constituent K1 for deployment NWNA0506.

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	286	28	274	22	211	31	18	32	254	A
02	276	35	277	25	205	37	23	20	264	A
03	266	43	281	23	196	43	23	4	279	A
04	256	42	280	23	195	42	22	3	278	A
05	246	38	280	22	192	38	22	2	278	A
06	236	37	279	23	191	37	22	2	277	A
07	226	35	277	21	188	35	21	1	277	A
08	216	34	278	22	188	34	22	1	278	A
09	206	33	279	22	189	33	22	180	99	A
10	196	33	279	22	189	33	22	0	279	A
11	186	33	279	22	188	33	22	179	99	A
12	176	35	278	22	183	35	22	175	101	A
13	166	35	276	22	185	35	22	179	96	A
14	156	35	274	23	185	35	23	1	274	A
15	146	34	273	22	185	34	22	2	272	A
16	136	34	271	22	184	35	22	4	268	A
17	126	34	271	22	185	34	22	5	267	A
18	116	34	268	22	186	34	21	8	263	A
19	106	33	271	22	183	33	22	3	269	A
20	96	33	269	22	184	33	22	5	266	A
21	86	32	268	22	185	32	22	10	261	A
22	76	30	273	24	185	30	23	5	269	A
23	66	28	259	23	193	30	19	33	237	A
24	56	27	270	23	186	28	23	16	257	A

## **Deployment Id: NWNB0506**

**Latitude:** 62°55.044'N

**Longitude:** 06°05.043'W

**Echo sounding depth:** 977m

**Bottom depth corr.:** 956m

**Time of deployment:** 11/06 -2005 0307UTC

**Time of recovery:** 30/01 - 2006 0900UTC, Surfaced 29/1-2006

### **ADCP:**

**Instrument no.:** RDI ADCP 1577

**Instrument frequency:** 75kHz

**Height above bottom:** 254m (corr.)

**Depth:** 702m (corr.)

**Time of first data:** 11/06 - 2005 0320UTC

**Time of last data:** 27/01 - 2006 1620UTC

**Sample interval:** 20 min

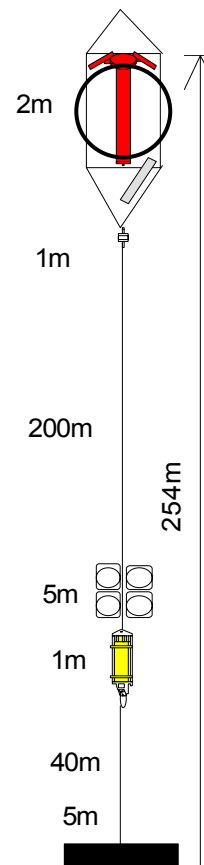
**No. of ensembles:** 16600

**Pings per ens.:** 1

**Binlength:** 25m

**Depth of first bin:** 666m (corr.)

**No. of bins:** 23



**Data:** All data OK

## NWNB0506 ADCP 1577

Error statistics for deployment: NWNB0506 updated 2006/08/15

Surface distance not edited  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 23 by EJ in Aug 2006  
 Intensity edited up to and including bin 23 by EM in Jun 2006

Total number of ensembles: 16600  
 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	1	87	1	26	9	0	3	0	4	0	0	0	0
2	0	156	1	50	6	3	0	1	8	1	0	0	0
3	0	115	1	34	7	1	1	1	6	1	0	0	0
4	0	114	1	41	3	4	2	1	6	0	0	0	0
5	0	56	0	19	1	3	1	2	2	0	0	0	0
6	0	56	0	21	3	3	2	0	2	0	0	0	0
7	0	70	0	26	4	5	2	1	1	0	0	0	0
8	0	84	1	22	5	4	0	2	4	0	0	0	0
9	0	85	1	31	5	1	2	2	3	0	0	0	0
10	0	86	1	26	10	2	0	3	3	0	0	0	0
11	0	63	0	28	4	3	0	1	2	0	0	0	0
12	0	110	1	32	4	0	1	2	4	2	0	0	0
13	0	136	1	29	4	4	3	0	5	3	0	0	0
14	0	152	1	43	7	1	6	4	3	2	0	0	0
15	0	166	1	43	6	4	0	1	5	4	0	0	0
16	0	218	1	78	5	4	0	0	3	6	0	0	0
17	0	406	2	145	16	9	3	5	10	2	2	0	0
18	0	808	5	252	60	16	10	10	20	6	0	2	0
19	0	2009	12	353	102	45	35	19	48	28	3	6	0
20	0	3485	21	395	123	69	55	32	86	61	17	5	2
21	0	4582	28	386	135	87	72	44	118	68	19	15	4
22	0	5695	34	383	143	104	75	55	109	66	33	14	17
23	0	7719	47	397	127	105	67	44	116	111	59	29	15

## NWNB0506 ADCP 1577

Deployment: NWNB0506 updated 2006/08/15  
Instrument no.: 1577  
Instrument freq.: 75  
Latitude: 62 55.044 N  
Longitude: 06 05.043 W  
Bottom depth: 956  
Instrument depth: 702  
Center depth of first bin: 666  
Bin length: 25  
Number of bins: 23  
Number of first ensemble: 323  
Time of first ensemble: 2005 06 11 03 20  
Number of last ensemble: 16922  
Time of last ensemble: 2006 01 27 16 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	666	290	126	39	96	995
2	641	315	124	33	96	991
3	616	340	124	28	96	993
4	591	365	123	25	97	993
5	566	390	124	21	97	997
6	541	415	125	18	98	997
7	516	440	127	15	100	996
8	491	465	129	15	101	995
9	466	490	132	15	103	995
10	441	515	134	18	105	995
11	416	540	136	24	109	996
12	391	565	140	30	111	993
13	366	590	145	41	113	992
14	341	615	156	59	113	991
15	316	640	172	83	111	990
16	291	665	191	108	112	987
17	266	690	212	131	112	976
18	241	715	241	159	111	951
19	216	740	265	180	110	879
20	191	765	284	199	109	790
21	166	790	297	214	107	724
22	141	815	304	222	105	657
23	116	840	315	231	107	535

## NWNB0506 ADCP 1577

Deployment: NWNB0506

Frequency of high speeds.

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

Bin Depth  no.  m	Speed (cm/s)																	
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1  666	581	165	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2  641	571	157	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3  616	565	156	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4  591	563	150	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5  566	567	156	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6  541	570	165	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7  516	577	173	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8  491	583	178	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9  466	597	190	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10  441	607	194	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11  416	614	205	39	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12  391	632	218	50	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13  366	645	244	56	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14  341	679	282	79	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15  316	725	342	119	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16  291	762	399	173	55	6	0	0	0	0	0	0	0	0	0	0	0	0	0
17  266	789	455	236	86	17	0	0	0	0	0	0	0	0	0	0	0	0	0
18  241	799	520	303	139	49	10	0	0	0	0	0	0	0	0	0	0	0	0
19  216	759	539	339	177	66	15	0	0	0	0	0	0	0	0	0	0	0	0
20  191	695	514	340	194	85	28	1	0	0	0	0	0	0	0	0	0	0	0
21  166	636	476	331	200	97	42	12	0	0	0	0	0	0	0	0	0	0	0
22  141	576	432	304	195	102	44	15	0	0	0	0	0	0	0	0	0	0	0
23  116	477	367	257	164	92	44	16	3	0	0	0	0	0	0	0	0	0	0

## NWNB0506 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB0506.

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	666	76	270	37	143	80	28	161	97	A
02	641	77	270	37	144	80	28	162	97	A
03	616	79	272	37	146	83	29	162	98	A
04	591	81	274	38	152	84	31	164	100	A
05	566	85	276	39	157	87	33	165	102	A
06	541	88	277	40	162	90	36	167	102	A
07	516	90	279	42	168	92	38	169	104	A
08	491	93	282	42	178	94	41	172	106	A
09	466	99	286	45	189	99	45	176	107	A
10	441	106	289	50	199	106	50	180	110	A
11	416	110	294	53	209	110	53	3	292	A
12	391	109	300	55	221	110	53	7	296	A
13	366	106	305	55	235	109	51	13	299	A
14	341	106	312	61	247	110	53	18	303	A
15	316	107	317	65	255	113	55	21	306	A
16	291	107	322	68	259	113	56	22	310	A
17	266	109	325	69	263	116	57	23	313	A
18	241	114	328	75	267	122	61	25	315	A
19	216	118	329	83	268	128	67	27	314	A
20	191	116	330	83	269	127	67	27	315	A
21	166	123	333	84	272	132	68	25	319	A
22	141	120	332	83	268	128	70	24	319	A
23	116	124	330	86	263	130	75	23	317	A

Harmonic constants for constituent S2 for deployment NWNB0506.

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	666	31	321	12	221	31	11	176	143	A
02	641	29	323	10	217	29	10	174	145	A
03	616	28	324	8	216	28	8	174	146	A
04	591	27	324	7	216	27	7	175	145	A
05	566	27	325	7	220	27	7	176	146	A
06	541	28	328	8	225	28	8	176	149	A
07	516	28	329	9	236	28	8	179	149	A
08	491	29	330	10	257	30	10	6	328	A
09	466	31	330	13	257	31	12	8	327	A
10	441	32	331	15	261	33	14	11	326	A
11	416	34	329	17	260	35	16	13	323	A
12	391	35	335	18	264	36	17	12	329	A
13	366	39	340	21	267	39	19	12	334	A
14	341	43	342	22	261	43	22	7	338	A
15	316	40	344	20	268	40	20	9	340	A
16	291	38	346	19	273	38	18	11	341	A
17	266	34	354	19	285	35	18	15	346	A
18	241	32	1	21	295	34	18	20	350	A
19	216	29	1	20	295	30	18	25	346	A
20	191	25	358	19	300	27	14	31	341	A
21	166	33	358	17	317	36	10	23	351	A
22	141	29	0	16	308	31	12	22	351	A
23	116	25	4	24	308	30	16	42	338	A



## NWNB0506 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB0506.

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	666	23	249	14	134	24	12	160	79	A
02	641	24	252	15	137	25	13	160	82	A
03	616	24	253	15	140	25	14	160	84	A
04	591	24	254	14	144	25	13	164	82	A
05	566	24	258	13	154	25	12	170	83	A
06	541	24	264	12	168	24	12	176	86	A
07	516	25	267	13	176	25	13	179	88	A
08	491	26	270	13	179	26	13	180	90	A
09	466	27	273	15	183	27	15	0	273	A
10	441	26	280	13	189	26	13	179	100	A
11	416	23	283	9	202	23	9	4	281	A
12	391	21	289	8	213	21	7	6	286	A
13	366	20	292	8	217	20	8	7	289	A
14	341	18	309	8	247	18	7	14	304	A
15	316	18	344	16	289	21	11	37	323	A
16	291	24	349	20	293	28	14	36	328	A
17	266	25	346	20	287	28	15	34	326	A
18	241	23	338	18	281	26	14	33	320	A
19	216	24	333	18	278	27	13	30	317	A
20	191	29	317	21	271	34	13	32	303	A
21	166	29	311	18	262	32	13	26	300	A
22	141	25	312	15	252	27	13	22	301	A
23	116	30	305	18	225	30	17	8	301	A

Harmonic constants for constituent O1 for deployment NWNB0506.

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	666	5	54	4	268	6	2	148	244	A
02	641	5	62	3	261	6	1	151	247	A
03	616	5	61	3	258	6	1	148	245	A
04	591	5	53	4	262	6	2	141	245	A
05	566	4	46	4	263	6	2	136	244	A
06	541	5	48	4	271	6	2	141	246	A
07	516	6	54	4	286	6	3	153	246	A
08	491	6	54	4	282	6	3	150	247	A
09	466	6	50	4	274	7	2	153	239	A
10	441	5	41	3	252	6	1	152	228	A
11	416	7	38	3	256	7	2	162	222	A
12	391	7	31	4	258	8	3	154	221	A
13	366	9	36	4	264	9	3	159	223	A
14	341	8	39	6	279	9	5	152	235	A
15	316	10	37	7	269	11	5	154	229	A
16	291	12	46	8	278	13	6	154	238	A
17	266	13	56	8	295	14	6	158	246	A
18	241	14	54	8	308	14	7	167	242	A
19	216	12	60	8	304	13	7	155	254	A
20	191	12	59	9	297	13	7	149	256	A
21	166	12	23	15	283	15	12	111	267	A
22	141	14	29	16	280	17	12	126	252	A
23	116	16	11	21	273	22	16	105	261	A

## NWNB0506 ADCP 1577

Harmonic constants for constituent K1 for deployment NWNB0506.

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	666	7	267	7	135	9	4	136	110	A
02	641	6	266	6	137	8	4	139	108	A
03	616	7	265	6	142	8	4	143	106	A
04	591	8	268	6	138	9	4	145	105	A
05	566	8	274	7	137	9	4	141	112	A
06	541	8	273	6	136	9	4	145	108	A
07	516	8	269	6	146	10	5	149	106	A
08	491	9	265	7	148	10	6	154	100	A
09	466	9	269	7	141	11	5	148	105	A
10	441	10	278	6	148	11	4	155	108	A
11	416	11	276	7	163	12	6	161	106	A
12	391	10	271	7	160	11	6	160	103	A
13	366	9	266	6	153	9	5	157	100	A
14	341	9	250	7	143	9	6	156	86	A
15	316	9	244	8	157	9	8	15	230	A
16	291	10	257	8	157	10	8	157	95	A
17	266	12	268	10	152	14	8	148	108	A
18	241	18	269	12	153	19	10	156	102	A
19	216	17	277	14	173	18	13	157	114	A
20	191	13	280	13	167	16	10	135	133	A
21	166	11	283	13	155	16	8	126	135	A
22	141	11	298	11	146	15	4	135	132	A
23	116	19	326	7	178	20	4	161	150	A

## **Deployment Id: NWNB0602**

**Latitude:** 62°54.940'N

**Longitude:** 06°05.400'W

**Echo sounding depth:** 968m

**Bottom depth corr.:** 942m

**Time of deployment:** 16/2 -2006 0518UTC

**Time of recovery:** 22/5 - 2006 1533UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1577

**Instrument frequency:** 75kHz

**Height above bottom:** 254m (corr.)

**Depth:** 688m (corr.)

**Time of first data:** 16/02 - 2006 0600UTC

**Time of last data:** 22/05 - 2006 1520UTC

**Sample interval:** 20 min

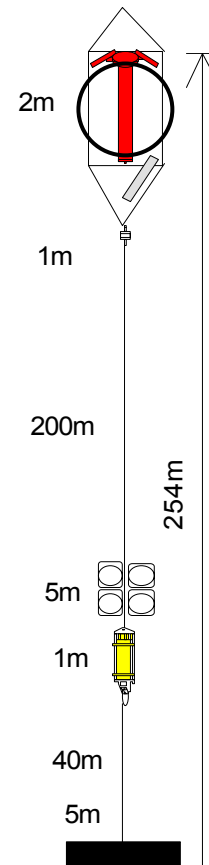
**No. of ensembles:** 6869

**Pings per ens.:** 1

**Binlength:** 25m

**Depth of first bin:** 652m (corr.)

**No. of bins:** 19



**Data:** All data OK

## NWNB0602 ADCP 1577

Error statistics for deployment: NWNB0602 updated 2006/08/15

Surface distance not edited  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 19 by EJ in Aug 2006  
 Intensity edited up to and including bin 19 by EM in Jun 2006

Total number of ensembles: 6869  
 Interval between ensembles: 20 min  
 Original number of bins: 32  
 Number of acceptable velocity bins: 19  
 Number of acceptable intensity bins: 19

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	0	10	0	8	1	0	0	0	0	0	0	0	0
2	0	26	0	20	3	0	0	0	0	0	0	0	0
3	0	33	0	21	3	0	0	0	1	0	0	0	0
4	0	22	0	14	1	0	0	0	1	0	0	0	0
5	0	28	0	20	0	0	0	0	1	0	0	0	0
6	0	20	0	8	2	0	0	0	1	0	0	0	0
7	0	18	0	9	1	0	0	0	1	0	0	0	0
8	0	23	0	14	1	1	1	0	0	0	0	0	0
9	0	32	0	21	1	0	1	1	0	0	0	0	0
10	0	55	1	35	1	0	1	1	1	0	0	0	0
11	0	49	1	33	1	0	1	0	1	0	0	0	0
12	0	67	1	44	2	1	0	1	0	1	0	0	0
13	0	70	1	46	1	0	0	0	0	2	0	0	0
14	0	79	1	58	2	0	0	0	2	0	0	0	0
15	0	112	2	81	6	2	0	1	1	0	0	0	0
16	0	340	5	133	17	13	3	4	7	2	1	0	0
17	0	936	14	167	48	17	10	10	19	11	6	2	0
18	0	1887	27	173	53	27	18	16	30	24	14	12	0
19	0	2825	41	152	54	27	22	15	35	23	18	30	1

**NWNB0602 ADCP 1577**

Deployment: NWNB0602 updated 2006/08/15  
 Instrument no.: 1577  
 Instrument freq.: 75  
 Latitude: 62 54.940 N  
 Longitude: 06 05.400 W  
 Bottom depth: 942  
 Instrument depth: 688  
 Center depth of first bin: 652  
 Bin length: 25  
 Number of bins: 19  
 Number of first ensemble: 202  
 Time of first ensemble: 2006 02 16 06 00  
 Number of last ensemble: 7070  
 Time of last ensemble: 2006 05 22 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	652	290	147	72	98	999
2	627	315	145	69	98	996
3	602	340	145	67	98	995
4	577	365	146	66	99	997
5	552	390	146	65	100	996
6	527	415	149	65	100	997
7	502	440	152	68	101	997
8	477	465	156	76	102	997
9	452	490	166	87	102	995
10	427	515	179	104	102	992
11	402	540	193	123	103	993
12	377	565	211	148	103	990
13	352	590	231	174	103	990
14	327	615	252	198	103	988
15	302	640	279	225	104	984
16	277	665	309	252	106	951
17	252	690	332	272	106	864
18	227	715	349	282	107	725
19	202	740	362	285	107	589

## NWNB0602 ADCP 1577

Deployment: NWNB0602

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| 652| 626  235   85   24    3    0    0    0    0    0    0    0    0    0    0    0    0    0
 2| 627| 624  227   83   19    2    0    0    0    0    0    0    0    0    0    0    0    0
 3| 602| 636  224   82   16    0    0    0    0    0    0    0    0    0    0    0    0    0
 4| 577| 646  226   74   13    0    0    0    0    0    0    0    0    0    0    0    0    0
 5| 552| 643  231   72   12    0    0    0    0    0    0    0    0    0    0    0    0    0
 6| 527| 658  244   74   10    0    0    0    0    0    0    0    0    0    0    0    0    0
 7| 502| 669  269   77   10    0    0    0    0    0    0    0    0    0    0    0    0    0
 8| 477| 681  280   85   13    0    0    0    0    0    0    0    0    0    0    0    0    0
 9| 452| 714  322  100   21    1    0    0    0    0    0    0    0    0    0    0    0    0
10| 427| 750  370  129   29    3    0    0    0    0    0    0    0    0    0    0    0    0
11| 402| 785  424  168   45    7    0    0    0    0    0    0    0    0    0    0    0    0
12| 377| 817  485  219   68   10    0    0    0    0    0    0    0    0    0    0    0    0
13| 352| 835  544  289  105   26    1    0    0    0    0    0    0    0    0    0    0    0
14| 327| 860  595  348  150   46    8    0    0    0    0    0    0    0    0    0    0    0
15| 302| 891  651  410  208   77   22    0    0    0    0    0    0    0    0    0    0    0
16| 277| 882  705  470  260  116   35    6    0    0    0    0    0    0    0    0    0    0
17| 252| 813  676  476  280  142   44    9    0    0    0    0    0    0    0    0    0    0
18| 227| 686  580  430  267  144   52   11    0    0    0    0    0    0    0    0    0    0
19| 202| 559  482  364  238  130   55   11    1    0    0    0    0    0    0    0    0    0
=====

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## NWNB0602 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB0602.

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	652	68	268	39	114	77	15	151	94	A
02	627	68	269	36	118	76	16	154	95	A
03	602	71	270	35	121	78	17	156	96	A
04	577	74	272	35	125	79	17	157	97	A
05	552	77	275	33	134	81	20	160	100	A
06	527	83	278	32	145	86	22	164	103	A
07	502	88	281	28	156	89	22	169	104	A
08	477	91	283	26	172	92	24	174	104	A
09	452	97	287	32	192	97	32	178	108	A
10	427	103	293	38	207	103	38	2	292	A
11	402	109	297	42	219	110	41	5	295	A
12	377	111	301	48	230	112	45	10	297	A
13	352	112	304	53	235	114	49	12	299	A
14	327	107	310	56	244	110	50	15	303	A
15	302	108	317	64	250	112	56	18	307	A
16	277	113	321	74	257	120	63	23	309	A
17	252	119	325	83	258	126	72	24	310	A
18	227	122	325	94	258	131	81	28	307	A
19	202	143	331	114	264	156	97	30	311	A

Harmonic constants for constituent S2 for deployment NWNB0602.

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	652	31	303	23	177	34	16	149	139	A
02	627	31	305	22	183	34	17	153	140	A
03	602	32	306	22	191	34	19	157	139	A
04	577	33	310	23	196	35	19	157	143	A
05	552	36	314	23	204	37	21	162	144	A
06	527	37	318	22	213	38	21	167	145	A
07	502	37	324	20	228	37	20	176	146	A
08	477	37	331	18	246	37	18	3	329	A
09	452	37	338	19	264	37	18	11	333	A
10	427	40	343	23	272	41	21	14	336	A
11	402	38	349	22	280	39	20	15	342	A
12	377	38	349	21	284	40	19	17	341	A
13	352	40	349	20	290	41	16	17	342	A
14	327	37	356	20	302	39	15	21	348	A
15	302	39	11	23	305	40	20	19	1	A
16	277	40	18	26	308	42	24	20	6	A
17	252	39	20	29	303	40	27	19	6	A
18	227	39	28	37	301	40	36	16	13	A
19	202	44	29	29	302	44	29	4	26	A

## NWNB0602 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB0602.

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	652	14	283	6	342	14	5	13	288	C
02	627	15	282	5	7	15	5	2	282	C
03	602	15	280	4	8	15	4	1	280	C
04	577	17	277	2	58	17	1	174	97	C
05	552	19	272	5	119	20	2	168	93	A
06	527	20	267	8	132	21	6	163	92	A
07	502	25	258	13	146	26	12	167	84	A
08	477	29	255	17	145	30	15	165	83	A
09	452	30	250	21	130	32	17	153	85	A
10	427	33	249	26	135	36	22	150	89	A
11	402	35	252	26	135	38	21	152	89	A
12	377	35	254	21	144	36	20	163	83	A
13	352	35	251	18	146	35	17	169	77	A
14	327	30	251	15	149	30	14	172	74	A
15	302	24	248	10	163	24	10	3	247	A
16	277	20	251	12	188	21	10	20	241	A
17	252	19	269	13	205	21	11	25	254	A
18	227	24	274	10	184	24	10	0	274	A
19	202	25	279	9	290	27	2	20	280	C

Harmonic constants for constituent O1 for deployment NWNB0602.

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	652	8	50	7	297	9	6	147	252	A
02	627	8	46	8	302	9	7	140	259	A
03	602	7	51	7	299	9	6	135	265	A
04	577	8	45	7	308	8	7	154	248	A
05	552	10	49	8	317	10	8	175	233	A
06	527	10	59	8	322	10	8	169	248	A
07	502	8	62	8	324	9	7	155	263	A
08	477	8	59	7	299	9	5	145	261	A
09	452	9	51	6	302	9	6	156	247	A
10	427	9	50	6	302	9	5	162	241	A
11	402	10	40	5	319	10	5	7	36	A
12	377	8	57	4	323	8	4	177	239	A
13	352	10	67	3	289	11	2	168	250	A
14	327	14	61	3	212	14	1	170	240	C
15	302	15	53	5	220	16	1	163	232	C
16	277	16	45	7	207	17	2	156	222	C
17	252	15	53	13	203	20	5	139	220	C
18	227	17	56	14	212	22	4	140	226	C
19	202	38	56	16	242	42	1	157	237	A



## **NWNB0602 ADCP 1577**

Harmonic constants for constituent K1 for deployment NWNB0602.

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	652	8	276	2	61	9	1	168	94	C
02	627	8	268	3	84	9	0	156	87	C
03	602	7	265	4	100	8	1	148	89	A
04	577	6	268	4	125	7	2	145	101	A
05	552	6	290	5	130	8	1	141	118	A
06	527	5	270	5	136	6	3	133	114	A
07	502	6	257	5	154	7	5	150	101	A
08	477	7	277	6	135	9	3	135	115	A
09	452	6	286	10	132	12	2	121	125	A
10	427	10	292	10	140	14	3	134	126	A
11	402	14	283	8	141	16	5	152	112	A
12	377	22	282	10	155	23	8	162	108	A
13	352	27	281	13	161	28	11	164	107	A
14	327	31	277	15	156	33	12	164	103	A
15	302	33	274	14	152	34	12	165	99	A
16	277	32	262	11	158	32	11	175	84	A
17	252	23	252	9	157	23	9	178	73	A
18	227	7	223	10	170	11	5	65	181	A
19	202	15	151	4	65	15	4	1	151	A

## **Deployment Id: NWNE0506**

**Latitude:** 62°47.440'N

**Longitude:** 006°04.422'W

**Echo sounding depth:** 451m

**Bottom depth corr.:** 456m

**Time of deployment:** 11/06 -2005 0151UTC

**Time of recovery:** 23/5 – 2006 0535UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1244

**Instrument frequency:** 150kHz

**Height above bottom:** 1m

**Depth:** 455m (corr.)

**Time of first data:** 11/06 – 2005 0200 UTC

**Time of last data:** 23/05 – 2006 0200 UTC

**Sample interval:** 20 min

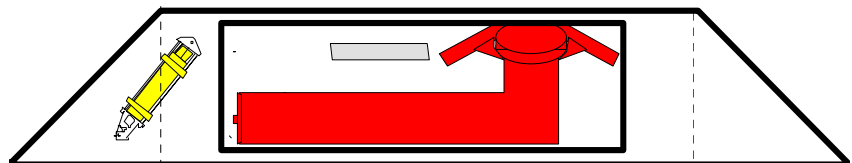
**No. of ensembles:** 24922

**Pings per ens.:** 1

**Binlength:** 25 m

**Depth of first bin:** 424 (corr.)

**No. of bins:** 15



**Data:** All data OK

## **NWNE0506 ADCP 1244**

Error statistics for deployment: NWNE0506 updated 2006/08/15

Surface distance not edited  
Heading, pitch and roll not edited  
Temperature edited by EM in Jun 2006  
Velocity edited up to and including bin 15 by EJ in Jul 2006  
Intensity edited up to and including bin 15 by EM in Jun 2006

Total number of ensembles: 24922  
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	0	1691	7	1375	113	22	6	0	0	0	0	0	0
2	0	1799	7	1430	146	19	5	0	0	0	0	0	0
3	0	1910	8	1519	149	23	6	0	0	0	0	0	0
4	0	1893	8	1543	140	18	4	0	0	0	0	0	0
5	0	1849	7	1508	140	15	4	0	0	0	0	0	0
6	0	1826	7	1490	131	18	5	0	0	0	0	0	0
7	0	1904	8	1544	142	20	4	0	0	0	0	0	0
8	0	1974	8	1590	145	27	2	1	0	0	0	0	0
9	0	2182	9	1632	191	29	14	0	4	0	0	0	0
10	0	2635	11	1722	212	50	16	6	12	9	1	0	0
11	0	3363	13	1648	275	70	17	13	38	18	11	0	0
12	0	4165	17	1636	254	74	33	21	41	25	30	3	0
13	0	5367	22	1698	366	92	32	13	58	35	35	18	0
14	0	8018	32	1789	447	170	80	45	92	77	39	39	0
15	0	11869	48	1626	451	224	97	66	143	122	67	76	7

**NWNE0506 ADCP 1244**

Deployment: NWNE0506 updated 2006/08/15  
 Instrument no.: 1244  
 Instrument freq.: 150  
 Latitude: 62 47.440 N  
 Longitude: 06 04.422 W  
 Bottom depth: 456  
 Instrument depth: 455  
 Center depth of first bin: 424  
 Bin length: 25  
 Number of bins: 15  
 Number of first ensemble: 319  
 Time of first ensemble: 2005 06 11 02 00  
 Number of last ensemble: 25240  
 Time of last ensemble: 2006 05 23 02 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	424	32	226	119	94	932
2	399	57	236	136	102	928
3	374	82	241	151	104	923
4	349	107	249	168	106	924
5	324	132	257	190	106	926
6	299	157	267	211	106	927
7	274	182	280	232	106	924
8	249	207	292	246	106	921
9	224	232	303	257	106	912
10	199	257	311	265	106	894
11	174	282	318	271	106	865
12	149	307	325	275	106	833
13	124	332	333	280	106	785
14	99	357	344	284	106	678
15	74	382	366	293	106	524

## **NWNE0506 ADCP 1244**

Deployment: NWNE0506

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| 424| 776 486 247  95  28  5  1  0  0  0  0  0  0  0  0  0  0
 2| 399| 790 511 267 111  37  9  2  1  0  0  0  0  0  0  0  0  0
 3| 374| 791 512 280 122  46 13  3  0  0  0  0  0  0  0  0  0  0
 4| 349| 796 524 298 147  58 18  4  0  0  0  0  0  0  0  0  0  0
 5| 324| 794 535 318 167  73 23  6  0  0  0  0  0  0  0  0  0  0
 6| 299| 794 559 344 186  86 31  9  3  0  0  0  0  0  0  0  0  0
 7| 274| 801 582 379 208 101 41 15  4  0  0  0  0  0  0  0  0  0
 8| 249| 806 600 404 230 116 51 20  6  1  0  0  0  0  0  0  0  0
 9| 224| 806 610 419 246 131 61 26  9  2  0  0  0  0  0  0  0  0
10| 199| 794 607 428 255 137 66 31 13  3  0  0  0  0  0  0  0  0
11| 174| 774 595 424 258 143 73 35 16  5  1  0  0  0  0  0  0  0
12| 149| 749 580 411 259 145 77 39 18  7  2  0  0  0  0  0  0  0
13| 124| 709 558 398 254 149 82 43 21  9  3  1  0  0  0  0  0  0
14|  99| 617 491 352 233 142 80 43 22 11  4  1  0  0  0  0  0  0
15|  74| 483 398 296 201 126 74 41 22 11  4  2  1  0  0  0  0  0
-----

```

## NWNE0506 ADCP 1244

Harmonic constants for constituent M2 for deployment NWNE0506.

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	424	126	254	108	137	143	85	145	96	A
02	399	141	262	112	149	153	94	150	101	A
03	374	154	276	109	164	162	96	157	110	A
04	349	157	287	104	180	162	96	162	118	A
05	324	152	297	96	193	155	91	167	125	A
06	299	147	306	90	206	149	87	171	131	A
07	274	144	311	84	215	144	83	175	134	A
08	249	141	315	81	223	141	81	178	135	A
09	224	137	316	78	227	137	78	1	316	A
10	199	135	318	76	230	135	76	2	317	A
11	174	134	319	75	232	134	75	2	318	A
12	149	132	320	73	234	133	73	3	319	A
13	124	132	320	68	236	132	67	4	318	A
14	99	130	323	63	240	130	62	5	320	A
15	74	125	329	64	245	126	64	4	327	A

Harmonic constants for constituent S2 for deployment NWNE0506.

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	424	52	304	41	200	54	39	158	140	A
02	399	59	310	45	208	60	43	160	145	A
03	374	60	325	43	221	61	40	161	158	A
04	349	61	338	40	231	62	37	163	169	A
05	324	57	345	35	239	58	33	166	173	A
06	299	50	348	31	245	50	30	168	175	A
07	274	47	349	28	253	47	28	174	173	A
08	249	46	353	26	256	46	25	174	176	A
09	224	43	354	23	261	43	23	178	175	A
10	199	41	354	22	266	41	22	1	354	A
11	174	43	355	20	271	43	20	4	354	A
12	149	43	358	21	275	43	21	4	356	A
13	124	40	358	21	287	41	19	13	352	A
14	99	40	357	23	297	42	19	20	347	A
15	74	47	6	22	297	48	20	12	1	A

## **NWNE0506 ADCP 1244**

Harmonic constants for constituent N2 for deployment NWNE0506.

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	424	28	245	23	130	32	19	147	86	A
02	399	27	249	18	131	28	15	155	83	A
03	374	22	247	16	124	24	12	149	84	A
04	349	21	248	17	129	23	13	148	87	A
05	324	22	263	14	152	23	13	160	95	A
06	299	25	281	15	178	25	14	168	108	A
07	274	27	289	16	196	27	16	177	111	A
08	249	27	291	18	201	27	18	0	291	A
09	224	27	290	16	202	27	16	2	288	A
10	199	26	284	15	203	26	15	8	280	A
11	174	26	283	13	203	26	13	7	280	A
12	149	26	286	15	202	26	14	5	283	A
13	124	27	284	15	204	27	15	8	280	A
14	99	31	294	11	197	31	11	177	115	A
15	74	30	316	10	171	31	5	165	138	A

Harmonic constants for constituent O1 for deployment NWNE0506.

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	424	16	20	9	315	17	8	17	11	A
02	399	17	26	9	308	17	9	9	21	A
03	374	17	23	9	300	17	9	5	20	A
04	349	17	22	9	292	17	9	0	22	A
05	324	19	26	9	291	19	9	177	207	A
06	299	22	28	9	283	22	8	173	211	A
07	274	20	34	9	286	21	8	171	218	A
08	249	19	29	9	286	19	9	173	212	A
09	224	18	25	10	286	18	9	174	208	A
10	199	17	25	10	290	17	9	176	207	A
11	174	16	36	12	288	17	11	160	228	A
12	149	16	45	12	288	18	10	150	243	A
13	124	18	41	11	282	19	9	158	233	A
14	99	15	38	11	290	16	10	155	235	A
15	74	20	41	11	275	22	8	159	229	A

## **NWNE0506 ADCP 1244**

Harmonic constants for constituent K1 for deployment NWNE0506.

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	424	17	260	16	183	19	15	39	227	A
02	399	23	262	16	166	23	16	172	87	A
03	374	29	258	15	156	29	15	171	83	A
04	349	29	257	14	154	30	13	173	80	A
05	324	29	256	12	159	29	12	176	78	A
06	299	27	266	12	168	27	12	176	87	A
07	274	26	269	11	168	27	11	174	92	A
08	249	23	271	11	168	24	11	172	95	A
09	224	21	276	11	173	21	10	171	100	A
10	199	19	274	12	176	19	12	172	99	A
11	174	19	272	11	173	19	11	173	96	A
12	149	15	266	12	169	15	11	168	95	A
13	124	12	270	11	173	13	11	155	111	A
14	99	11	289	13	190	13	10	109	175	A
15	74	2	17	16	207	16	0	97	206	A



## **Deployment Id: NWNG0506**

**Latitude:** 63°06.375'N

**Longitude:** 06°05.069'W

**Echo sounding depth:** 1856 m

**Bottom depth corr.:** 1803m

**Time of deployment:** 11/06 -2005 0427UTC

**Time of recovery:** 22/05 - 2006 1248UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1292

**Instrument frequency:** 75kHz

**Height above bottom:** 1174 m

**Depth:** 629m (corr.)

**Time of first data:** 11/06 – 2005 0520UTC

**Time of last data:** 22/05 – 2006 1240UTC

**Sample interval:** 20 min

**No. of ensembles:** 24863

**Pings per ens.:** 1

**Binlength:** 25 m

**Depth of first bin:** 593m (corr.)

**No. of bins:** 22

### **Aanderaa:**

**Instrument no.:** RCM9 721, RCM7 9758

**Height above bottom:** 12 m, 1117 m

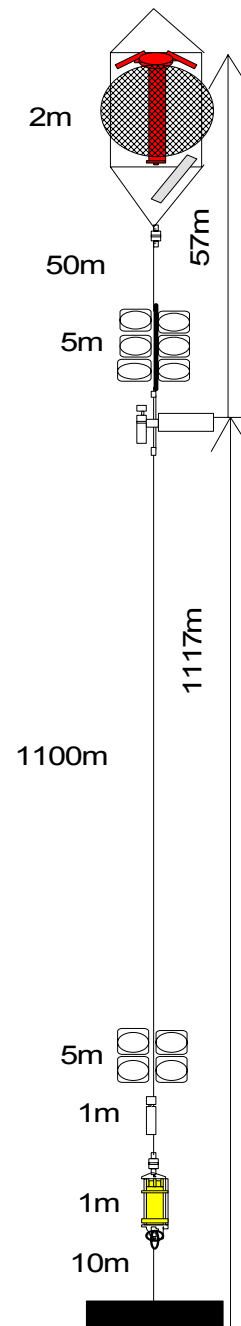
**Depth:** 1791m, 686 m (corr.)

**Time of first data:** 11/06 – 2005 0430UTC

**Time of last data:** 22/05 – 2006 1130UTC

**Sample interval:** 60 min

**No. of ensembles:** 8288



**Data: Aanderaa 9758 not fully calibrated and specially edited, see comments.**

## NWNG0506 ADCP 1292

Error statistics for deployment: NWNG0506 updated 2006/08/15

Surface distance not edited  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 22 by EJ in Jul 2006  
 Intensity edited up to and including bin 22 by EM in Jun 2006

Total number of ensembles: 24863  
 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	0	33	0	28	2	0	0	0	0	0	0	0	0	0
2	0	44	0	43	0	0	0	0	0	0	0	0	0	0
3	0	46	0	38	2	1	0	0	0	0	0	0	0	0
4	0	32	0	29	1	0	0	0	0	0	0	0	0	0
5	0	41	0	31	3	1	0	0	0	0	0	0	0	0
6	0	90	0	53	6	4	3	0	0	0	0	0	0	0
7	0	157	1	55	11	6	4	1	5	0	0	0	0	0
8	0	253	1	82	9	8	4	6	5	3	0	0	0	0
9	0	336	1	88	21	9	3	0	11	5	0	0	0	0
10	0	535	2	150	27	8	4	5	11	10	1	0	0	0
11	0	651	3	172	27	15	5	7	15	10	2	0	0	0
12	1	405	2	166	17	9	3	3	5	8	0	0	0	0
13	0	538	2	198	16	5	4	9	12	9	0	0	0	0
14	1	430	2	166	22	4	4	1	9	8	0	0	0	0
15	0	481	2	289	14	3	2	3	5	6	1	0	0	0
16	0	547	2	368	16	8	7	0	4	3	1	0	0	0
17	0	1189	5	455	56	30	15	5	19	10	2	3	0	0
18	0	1802	7	519	79	40	11	13	30	25	5	5	0	0
19	0	3106	12	658	139	52	30	22	45	41	14	11	1	1
20	0	4540	18	763	178	77	33	29	64	56	41	15	1	1
21	0	6740	27	1051	270	123	78	46	86	77	52	27	3	3
22	0	10089	41	1531	436	205	100	65	142	120	61	44	6	6

## **NWNG0506 ADCP 1292**

Deployment: NWNG0506 updated 2006/08/15  
Instrument no.: 1292  
Instrument freq.: 75  
Latitude: 63 06.375 N  
Longitude: 06 05.069 W  
Bottom depth: 1803  
Instrument depth: 629  
Center depth of first bin: 593  
Bin length: 25  
Number of bins: 22  
Number of first ensemble: 329  
Time of first ensemble: 2005 06 11 05 20  
Number of last ensemble: 25191  
Time of last ensemble: 2006 05 22 12 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	593	1210	90	25	123	999
2	568	1235	91	26	124	998
3	543	1260	93	27	126	998
4	518	1285	96	29	128	999
5	493	1310	99	31	128	998
6	468	1335	102	33	130	996
7	443	1360	107	34	132	994
8	418	1385	110	36	131	990
9	393	1410	114	40	133	986
10	368	1435	120	45	134	978
11	343	1460	127	49	133	974
12	318	1485	140	59	132	984
13	293	1510	152	70	131	978
14	268	1535	169	81	130	983
15	243	1560	188	94	130	981
16	218	1585	209	107	129	978
17	193	1610	224	114	131	952
18	168	1635	246	126	131	928
19	143	1660	262	134	131	875
20	118	1685	284	143	131	817
21	93	1710	305	147	130	729
22	68	1735	337	152	132	594

## NWNG0506 ADCP 1292

Deployment: NWNG0506

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 593| 381 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2| 568| 389 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3| 543| 406 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4| 518| 423 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5| 493| 449 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6| 468| 471 54 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7| 443| 500 66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8| 418| 522 79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9| 393| 543 95 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10| 368| 568 112 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11| 343| 606 145 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
12| 318| 654 201 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
13| 293| 686 257 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14| 268| 726 328 103 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0
15| 243| 758 395 158 44 7 0 0 0 0 0 0 0 0 0 0 0 0
16| 218| 788 451 217 79 21 5 0 0 0 0 0 0 0 0 0 0 0 0
17| 193| 798 482 254 104 29 0 0 0 0 0 0 0 0 0 0 0 0
18| 168| 793 515 297 146 56 15 0 0 0 0 0 0 0 0 0 0 0 0
19| 143| 760 517 311 168 76 26 3 0 0 0 0 0 0 0 0 0 0 0
20| 118| 723 513 326 190 98 46 17 3 0 0 0 0 0 0 0 0 0 0
21| 93| 658 488 325 198 109 53 22 6 0 0 0 0 0 0 0 0 0 0
22| 68| 547 430 303 199 121 65 32 12 2 0 0 0 0 0 0 0 0 0
-----

```

## NWNG0506 ADCP 1292

Harmonic constants for constituent M2 for deployment NWNG0506.

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	593	66	292	31	259	71	16	23	287	A
02	568	65	292	31	259	70	15	23	287	A
03	543	64	294	32	264	70	15	25	288	A
04	518	63	297	35	270	71	14	27	291	A
05	493	61	301	37	274	70	14	29	294	A
06	468	60	304	39	278	70	14	32	296	A
07	443	59	306	42	282	71	14	35	298	A
08	418	56	308	41	286	68	13	36	301	A
09	393	52	310	41	290	66	11	38	303	A
10	368	51	311	43	293	66	10	40	304	A
11	343	50	313	46	296	67	10	43	305	A
12	318	49	321	52	301	71	12	47	310	A
13	293	49	328	60	302	76	17	51	313	A
14	268	53	336	69	304	84	24	54	315	A
15	243	58	341	76	304	91	29	55	316	A
16	218	62	347	86	305	100	36	57	318	A
17	193	65	350	94	304	107	41	59	317	A
18	168	74	355	105	304	118	51	60	318	A
19	143	79	357	114	304	127	57	61	318	A
20	118	85	358	121	302	134	64	61	317	A
21	93	90	359	125	302	138	68	61	318	A
22	68	96	1	129	302	143	75	60	319	A

Harmonic constants for constituent S2 for deployment NWNG0506.

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	593	21	324	9	297	22	4	21	321	A
02	568	20	326	9	305	22	3	23	323	A
03	543	19	326	8	310	21	2	23	323	A
04	518	19	323	7	306	21	2	20	321	A
05	493	20	321	7	305	21	2	18	319	A
06	468	20	318	6	313	21	0	16	317	A
07	443	20	316	5	321	21	0	15	317	C
08	418	19	317	7	336	20	2	19	319	C
09	393	17	314	8	346	18	4	23	319	C
10	368	16	310	7	345	17	4	21	315	C
11	343	18	316	6	332	19	2	19	318	C
12	318	17	326	8	332	19	1	25	327	C
13	293	15	332	11	339	18	1	36	335	C
14	268	14	339	13	343	20	1	43	341	C
15	243	12	351	17	349	21	0	53	350	A
16	218	13	2	18	348	22	3	54	353	A
17	193	11	5	21	351	23	2	62	354	A
18	168	14	16	24	349	27	6	62	356	A
19	143	17	20	26	346	30	8	59	355	A
20	118	19	22	24	345	29	10	53	358	A
21	93	15	23	25	344	28	9	62	353	A
22	68	19	18	25	340	30	10	54	354	A

## NWNG0506 ADCP 1292

Harmonic constants for constituent N2 for deployment NWNG0506.

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	593	17	283	10	236	18	7	27	272	A
02	568	16	288	10	246	18	6	29	277	A
03	543	15	289	10	252	17	5	33	277	A
04	518	14	288	10	254	16	5	34	277	A
05	493	14	288	9	253	16	5	32	278	A
06	468	15	291	11	256	18	5	34	280	A
07	443	16	299	13	260	19	7	37	284	A
08	418	16	305	14	261	20	8	39	287	A
09	393	16	307	15	272	21	7	42	292	A
10	368	16	309	15	278	21	6	42	295	A
11	343	16	307	14	278	20	5	41	294	A
12	318	14	309	14	288	19	4	43	299	A
13	293	11	310	14	293	17	3	53	299	A
14	268	9	313	13	293	15	3	55	300	A
15	243	11	327	15	298	18	4	53	309	A
16	218	12	333	19	300	21	6	58	310	A
17	193	14	347	21	301	24	9	61	313	A
18	168	15	356	24	300	26	11	67	311	A
19	143	18	6	29	306	30	14	68	317	A
20	118	19	11	32	301	33	17	74	310	A
21	93	18	14	37	299	37	17	81	303	A
22	68	22	10	37	291	38	21	81	296	A

Harmonic constants for constituent O1 for deployment NWNG0506.

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	593	6	56	1	309	6	1	176	236	A
02	568	5	53	1	298	5	1	174	235	A
03	543	6	57	1	316	6	1	179	237	A
04	518	6	56	1	346	6	1	2	56	A
05	493	6	60	1	295	6	1	175	241	A
06	468	6	57	1	295	7	1	173	238	A
07	443	5	58	1	318	6	1	177	239	A
08	418	5	60	1	294	5	1	171	242	A
09	393	6	59	1	326	6	1	180	239	A
10	368	6	62	1	298	6	1	175	243	A
11	343	4	60	0	307	4	0	178	240	A
12	318	6	54	2	313	6	2	176	235	A
13	293	7	58	3	318	7	3	175	240	A
14	268	7	67	4	327	7	4	173	250	A
15	243	6	67	2	319	6	2	172	250	A
16	218	4	57	1	295	5	1	173	238	A
17	193	6	19	2	306	6	2	8	16	A
18	168	8	5	2	303	8	1	6	4	A
19	143	9	10	3	298	9	3	8	7	A
20	118	6	7	5	307	7	4	41	340	A
21	93	7	333	7	295	9	3	46	314	A
22	68	11	323	4	291	11	2	20	319	A

## **NWNG0506 ADCP 1292**

Harmonic constants for constituent K1 for deployment NWNG0506.

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	593	5	291	2	187	5	2	173	115	A
02	568	5	290	2	170	5	2	166	115	A
03	543	5	292	2	181	5	2	170	116	A
04	518	5	289	3	169	5	2	161	117	A
05	493	5	291	3	159	5	2	156	120	A
06	468	5	288	2	150	5	1	161	113	A
07	443	5	287	3	162	5	2	158	116	A
08	418	4	285	3	166	5	3	152	120	A
09	393	6	283	3	158	6	2	164	108	A
10	368	6	279	2	174	6	2	175	101	A
11	343	6	294	1	188	6	1	176	115	A
12	318	6	287	2	147	6	1	167	110	A
13	293	5	272	2	139	6	2	164	96	A
14	268	5	269	1	142	6	1	171	91	A
15	243	5	267	1	75	6	0	166	86	C
16	218	7	269	2	115	7	1	168	90	A
17	193	6	265	2	144	6	2	169	88	A
18	168	5	249	2	136	5	2	169	73	A
19	143	2	291	2	100	3	0	132	105	C
20	118	5	328	2	117	5	1	156	143	C
21	93	6	355	4	76	6	4	16	7	C
22	68	2	77	12	62	12	1	81	63	A

# NWNG0506 Aanderaa 721

Deployment: NWNG0506 analyzed from beginning to end  
 Instrument no.: 721  
 Instrument type: Aanderaa  
 Latitude: 63 06.375 N  
 Longitude: 06 05.069 W  
 Bottom depth: 1803  
 Instrument depth: 1791  
 Number of records: 8288  
 Time of first record: 2005 06 11 04 30  
 Time of last record : 2006 05 22 11 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	8288	0
Column 8 : Speed	8287	1
Column 9 : Direct	8288	0

Comments

Residual current: 25 mm/sec towards: 143 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	1	194	4	352	4	0	105	353	C
MSF	.00282193	9	174	12	321	15	4	126	333	C
Q1	.03721850	3	45	1	93	3	1	16	49	C
O1	.03873065	5	64	0	244	5	0	175	244	C
NO1	.04026859	1	312	1	162	1	0	147	141	A
P1	.04155259	1	205	1	213	1	0	42	209	C
K1	.04178075	2	283	2	192	2	2	178	105	A
N2	.07899925	14	237	5	141	14	5	178	58	A
M2	.08051140	58	254	15	149	58	14	176	75	A
L2	.08202355	6	239	5	142	6	5	159	76	A
S2	.08333334	19	312	7	276	20	4	17	309	A
K2	.08356149	4	300	1	310	4	0	15	300	C
MK3	.12229210	1	249	1	138	1	1	120	118	A
M4	.16102280	1	117	1	66	1	1	31	102	A
MS4	.16384470	1	208	1	142	1	1	41	179	A

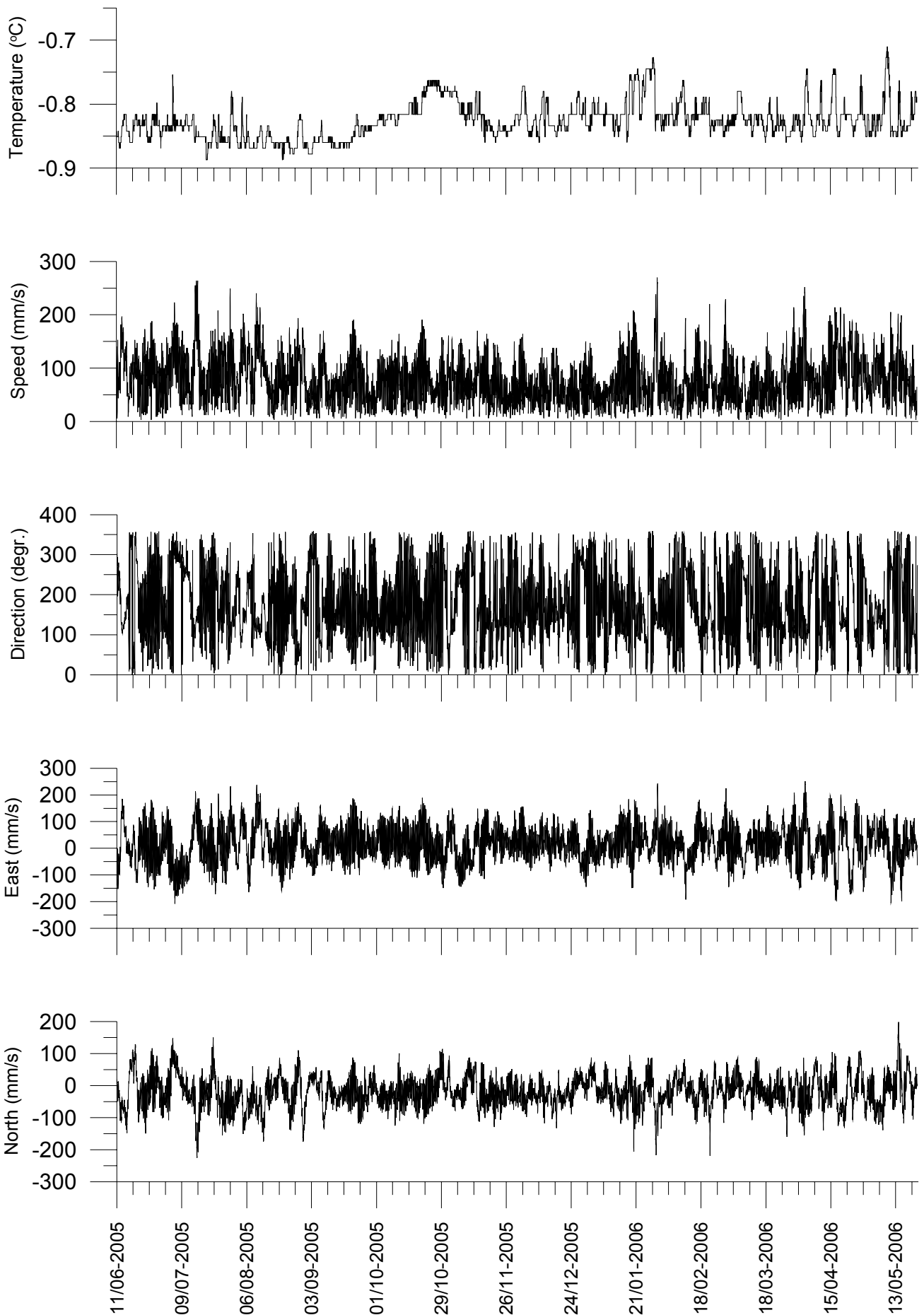
## DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

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

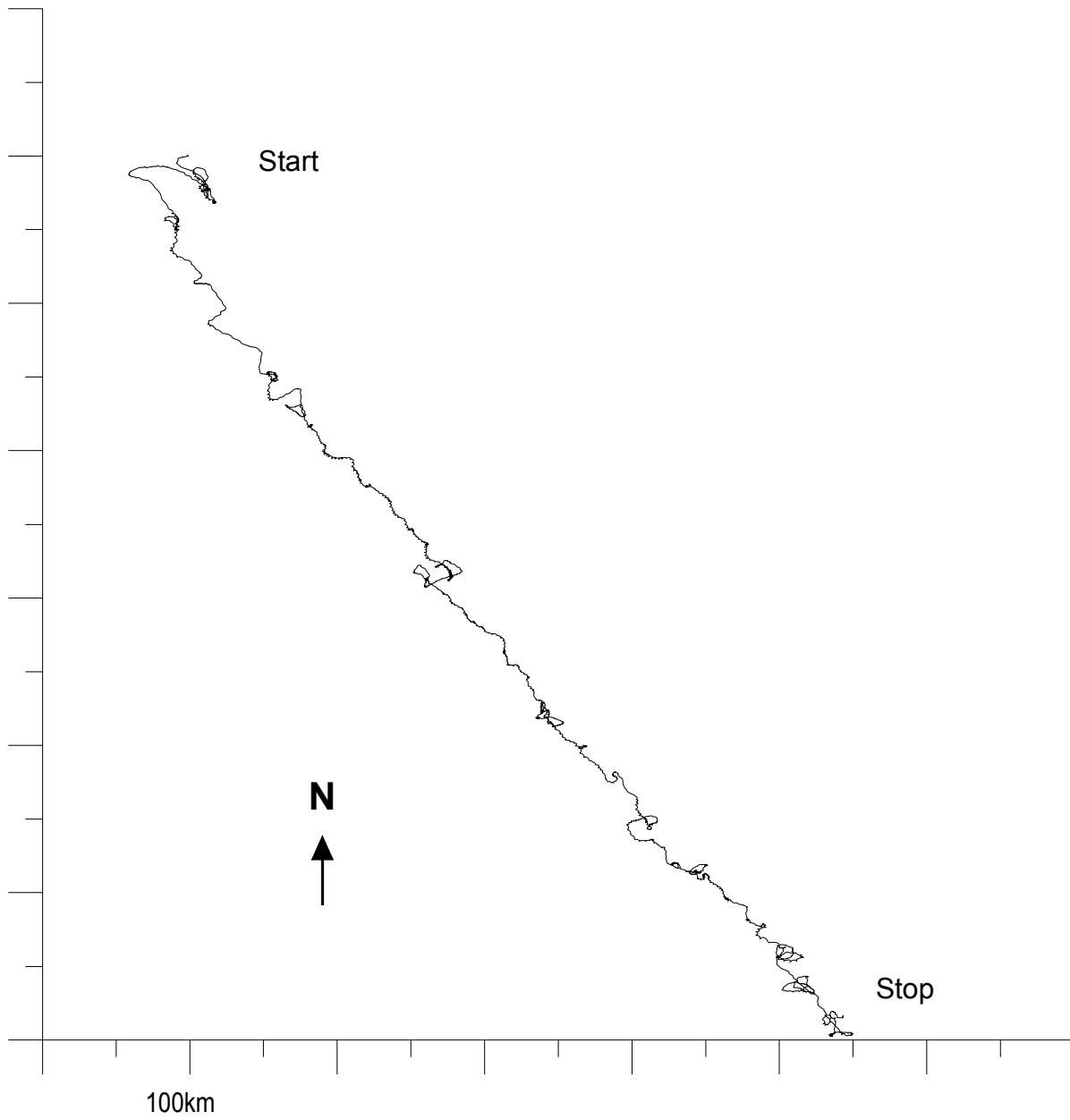
Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	19	18	21	30	29	31	30	33	24	25	17	18	297	297
50 - 100	15	18	40	63	67	42	39	40	44	31	22	14	436	732
100 - 150	2	7	22	51	40	20	8	10	23	15	8	3	209	941
150 - 200	1	1	7	15	9	3	1	2	4	5	2	0.48	50	991
200 - 300	0.12	0	0.36	4	2	1	0.12	0	0	1	0	0	9	1000
Total (ppt)	37	44	91	164	147	97	79	85	94	77	49	36		
Rel.flux (ppt)	26	37	98	200	167	93	65	71	96	78	43	27		
Avg.spd (mm/s)	55	66	84	96	89	75	64	65	79	79	70	58		
Max.spd (mm/s)	202	176	252	270	264	252	208	188	199	223	185	170		



**NWNG0506 Aanderaa 721**



**NWNG0506 Aanderaa 721**



# NWNG0506 Aanderaa 9758

Deployment: NG0506 U analyzed from beginning to end  
 Instrument no.: 9758  
 Instrument type: Aanderaa  
 Latitude: 63 06.375 N  
 Longitude: 06 05.069 W  
 Bottom depth: 1803  
 Instrument depth: 686  
 Number of records: 8288  
 Time of first record: 2005 06 11 04 30  
 Time of last record : 2006 05 22 11 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	8288	0
Column 8 : Speed	6706	1582
Column 9 : Direct	7095	1193
Column 10 : Salt	8288	0

Comments

Temperature not fully calibrated, but probably accurate within 0.02°C.  
 Conductivity not calibrated.  
 All records with zero speed have been error flagged for velocity due to assumed instrument malfunction.

Residual current: 29 mm/sec towards: 127 degrees

TIDAL ANALYSIS

Error flagged records interpolated for velocity: 212, records not int.: 1370  
 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	5	210	2	285	5	2	6	212	C
MSF	.00282193	7	164	6	327	9	1	137	336	C
Q1	.03721850	3	38	0	198	3	0	176	217	C
O1	.03873065	5	62	0	312	5	0	178	242	A
NO1	.04026859	0	309	1	282	1	0	65	287	A
P1	.04155259	1	2	1	126	1	1	118	140	C
K1	.04178075	4	290	2	204	4	2	2	289	A
N2	.07899925	16	268	8	210	16	7	19	260	A
M2	.08051140	63	292	27	250	66	17	19	287	A
L2	.08202355	3	67	2	6	3	2	38	43	A
S2	.08333334	22	323	10	277	23	6	19	317	A
K2	.08356149	8	326	5	270	9	4	27	313	A
MK3	.12229210	1	82	0	344	1	0	175	264	A
M4	.16102280	1	14	0	355	1	0	7	14	A
MS4	.16384470	1	66	1	336	1	1	0	66	A

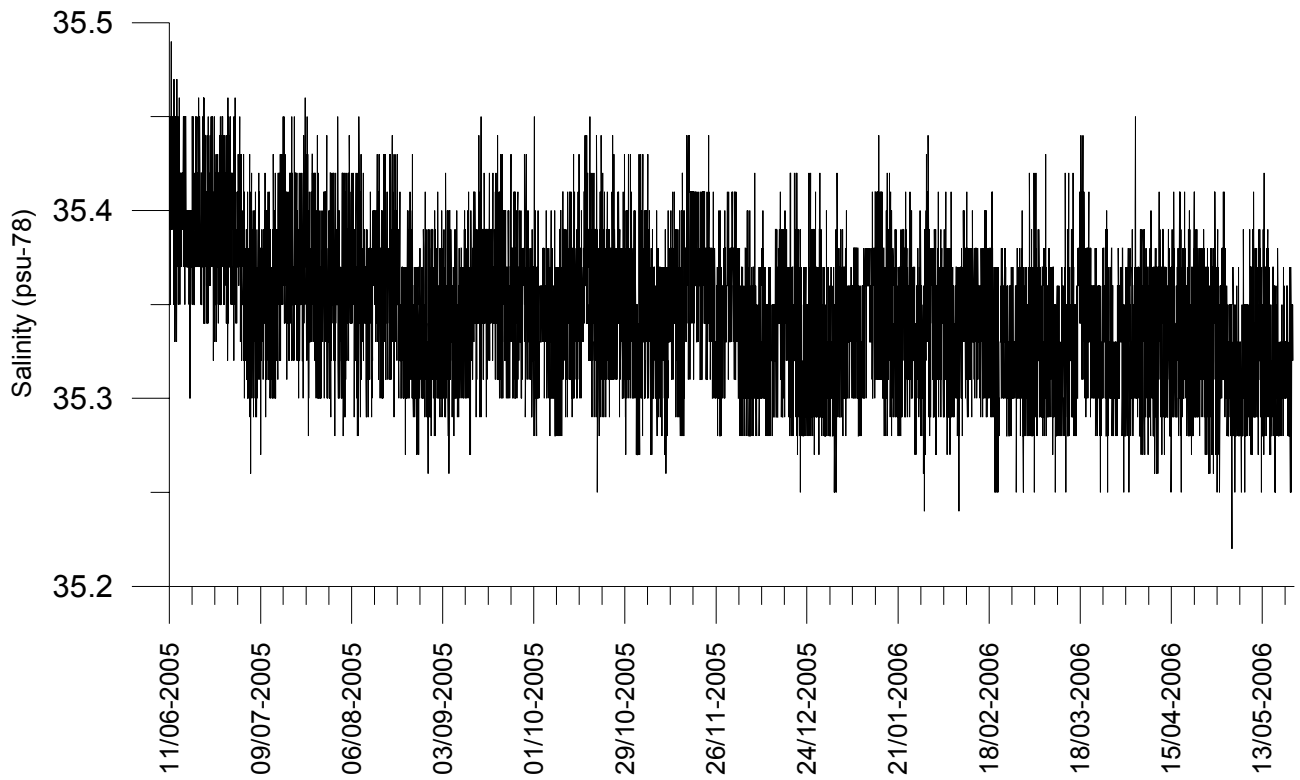
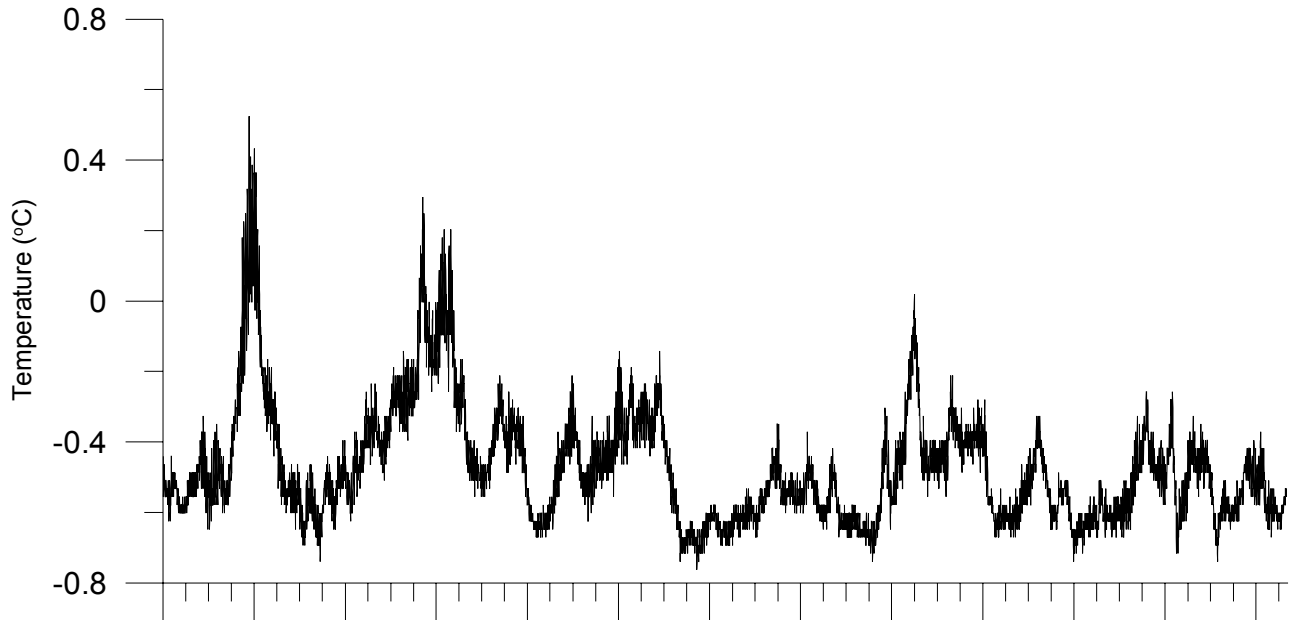
DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

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	13	28	32	40	33	25	25	32	25	17	11	8	288	288	
50 - 100	13	39	59	88	62	39	48	55	35	24	8	6	475	763	
100 - 150	2	14	37	48	18	9	9	21	18	8	1	1	185	948	
150 - 200	0	3	11	16	3	1	1	5	4	1	0	0	44	992	
200 - 300	0	0	2	4	1	0.30	0.15	0.15	0.30	0	0	0	8	1000	
Total (ppt)	28	83	140	195	117	74	83	113	81	49	21	15			
Rel.flux (ppt)	21	77	161	230	112	64	74	112	82	43	14	10			
Avg.spd (mm/s)	58	70	87	89	73	66	67	75	77	67	52	52			
Max.spd (mm/s)	146	193	262	272	256	217	201	214	217	180	149	149			

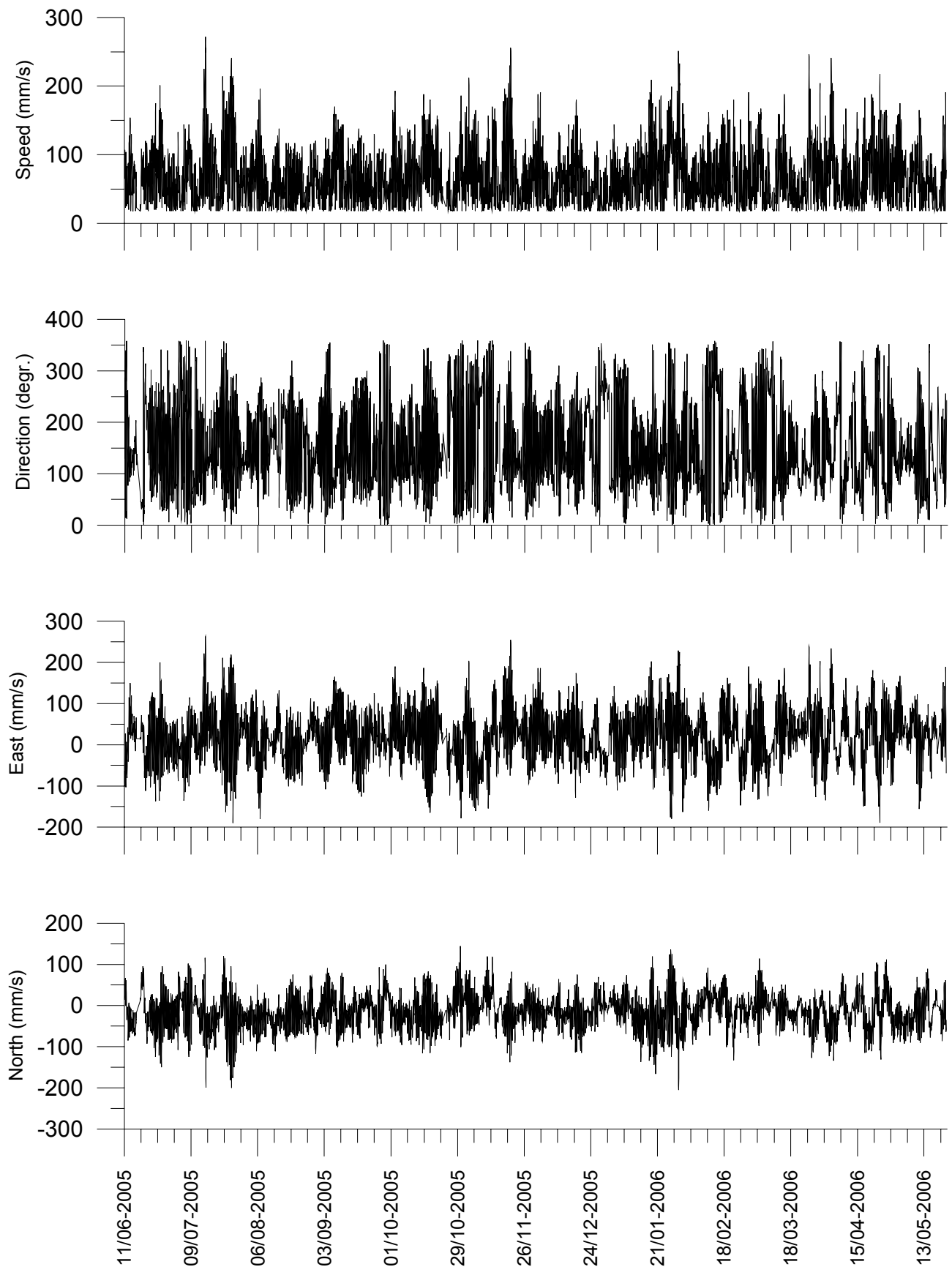
**NWNG0506 Aanderaa 9758**

Temperature not fully calibrated, but probably accurate within 0.02°C.  
Conductivity not calibrated.

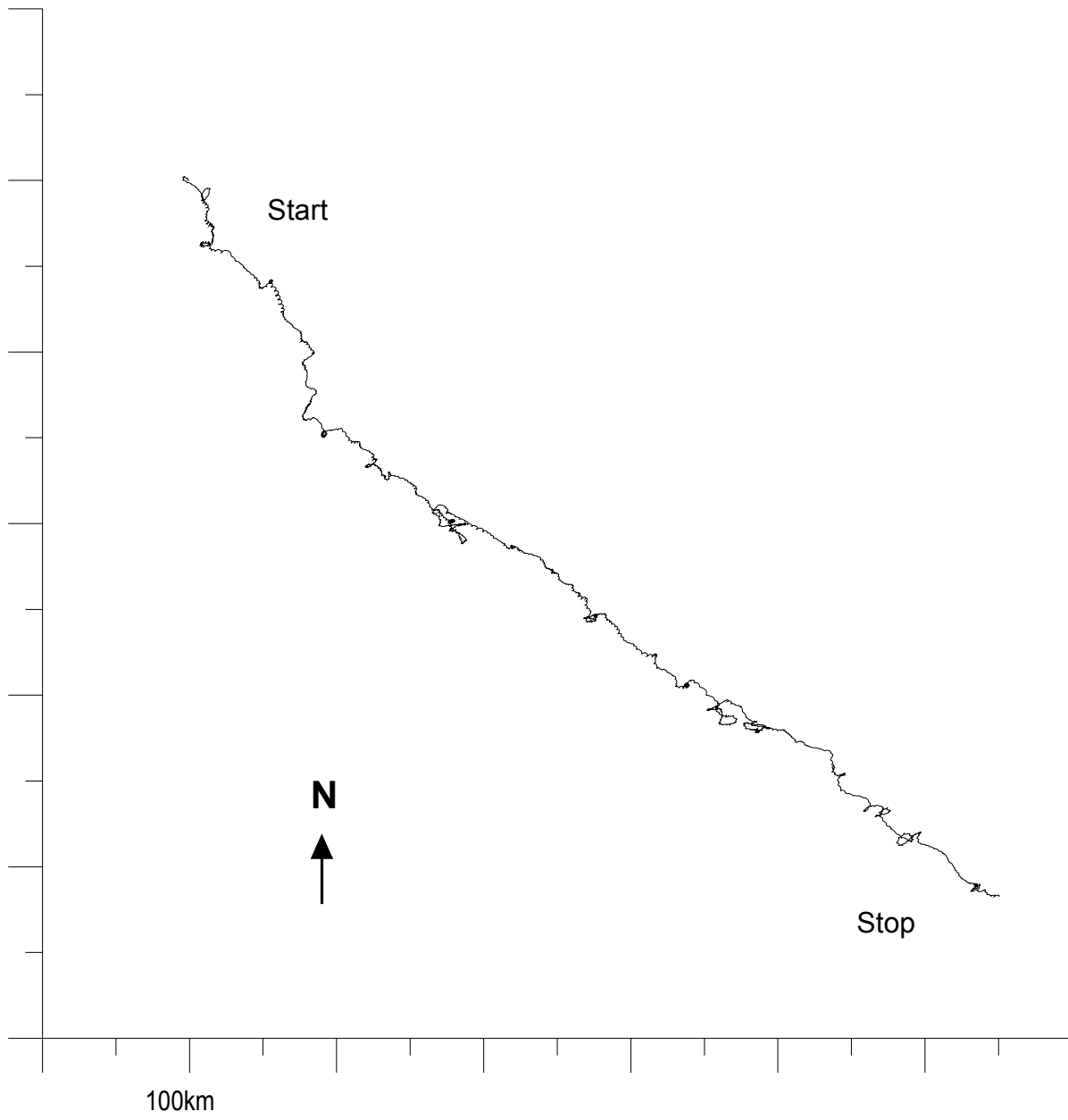


## **NWNG0506 Aanderaa 9758**

All records with zero speed have been error flagged for velocity due to assumed instrument malfunction.



**NWNG0506 Aanderaa 9758**



## **Deployment Id: NWSB0506**

**Latitude:** 60°46.980'N

**Longitude:** 05°17.808'W

**Echo sounding depth:** 806m

**Bottom depth corr.:** 789m

**Time of deployment:** 12/06 -2005 0227UTC

**Time of recovery:** 19/5 - 2006 0830UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1644

**Instrument frequency:** 75kHz

**Height above bottom:** 108m

**Depth:** 681m (corr.)

**Time of first data:** 12/06 - 2005 0300UTC

**Time of last data:** 19/05 - 2006 0800UTC

**Sample interval:** 20 min

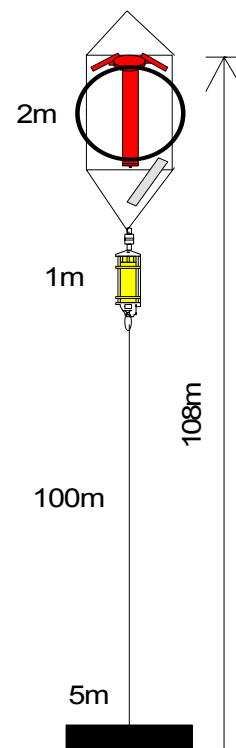
**No. of ensembles:** 24568

**Pings per ens.:** 1

**Binlength:** 25m

**Depth of first bin:** 645(corr.)

**No. of bins:** 21



**Data:** All data OK

## NWSB0506 ADCP 1644

Error statistics for deployment: NWSB0506 updated 2006/08/15

Surface distance not edited  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 21 by EJ in Aug 2006  
 Intensity edited up to and including bin 21 by EM in Jun 2006

Total number of ensembles: 24568  
 Interval between ensembles: 20 min  
 Original number of bins: 32  
 Number of acceptable velocity bins: 21  
 Number of acceptable intensity bins: 21

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	0	106	0	26	3	3	2	4	5	0	0	0	0
2	0	40	0	23	2	1	1	0	1	0	0	0	0
3	0	43	0	16	4	2	2	1	0	0	0	0	0
4	0	34	0	19	2	1	2	0	0	0	0	0	0
5	0	46	0	26	1	1	1	1	1	0	0	0	0
6	0	78	0	20	4	2	4	1	3	0	0	0	0
7	0	27	0	16	2	1	1	0	0	0	0	0	0
8	0	48	0	28	0	2	1	2	0	0	0	0	0
9	0	44	0	33	1	0	1	1	0	0	0	0	0
10	0	34	0	27	2	1	0	0	0	0	0	0	0
11	0	80	0	58	4	3	0	1	0	0	0	0	0
12	0	75	0	53	4	1	0	1	1	0	0	0	0
13	0	117	0	63	3	2	0	0	6	0	0	0	0
14	0	115	0	84	4	4	1	0	1	0	0	0	0
15	0	183	1	136	5	3	0	3	2	0	0	0	0
16	0	437	2	219	24	11	8	5	3	4	0	0	0
17	0	1025	4	318	58	21	17	7	22	8	6	0	0
18	0	2825	11	469	119	64	35	25	51	53	11	6	0
19	0	6086	25	609	193	112	61	59	110	87	48	26	0
20	0	9229	38	562	186	118	69	63	165	125	63	68	2
21	0	11398	46	596	204	126	84	58	167	152	79	88	5



## NWSB0506 ADCP 1644

Deployment: NWSB0506 updated 2006/08/15  
Instrument no.: 1644  
Instrument freq.: 75  
Latitude: 60 46.980 N  
Longitude: 05 17.808 W  
Bottom depth: 789  
Instrument depth: 681  
Center depth of first bin: 645  
Bin length: 25  
Number of bins: 21  
Number of first ensemble: 394  
Time of first ensemble: 2005 06 12 03 00  
Number of last ensemble: 24961  
Time of last ensemble: 2006 05 19 08 00  
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	645	144	203	46	186	996
2	620	169	201	44	184	998
3	595	194	197	43	184	998
4	570	219	193	41	183	999
5	545	244	191	39	183	998
6	520	269	188	37	182	997
7	495	294	188	36	182	999
8	470	319	186	35	184	998
9	445	344	184	36	184	998
10	420	369	185	37	185	999
11	395	394	188	38	186	997
12	370	419	192	39	188	997
13	345	444	199	40	194	995
14	320	469	205	37	197	995
15	295	494	209	33	200	993
16	270	519	213	31	202	982
17	245	544	219	30	204	958
18	220	569	221	26	204	885
19	195	594	222	24	202	752
20	170	619	224	24	199	624
21	145	644	228	23	185	536

# **NWSB0506 ADCP 1644**

Deployment: NWSB0506

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| 645|  826  465  184   47    7    0    0    0    0    0    0    0    0    0    0    0    0    0
 2| 620|  821  457  177   48    9    0    0    0    0    0    0    0    0    0    0    0    0    0
 3| 595|  810  445  168   42    6    0    0    0    0    0    0    0    0    0    0    0    0    0
 4| 570|  805  432  157   38    5    0    0    0    0    0    0    0    0    0    0    0    0    0
 5| 545|  800  424  148   35    4    0    0    0    0    0    0    0    0    0    0    0    0    0
 6| 520|  793  416  141   30    3    0    0    0    0    0    0    0    0    0    0    0    0    0
 7| 495|  792  413  142   32    5    0    0    0    0    0    0    0    0    0    0    0    0    0
 8| 470|  778  404  139   33    5    0    0    0    0    0    0    0    0    0    0    0    0    0
 9| 445|  771  392  138   33    5    0    0    0    0    0    0    0    0    0    0    0    0    0
10| 420|  778  393  142   36    6    0    0    0    0    0    0    0    0    0    0    0    0    0
11| 395|  780  402  152   39    5    0    0    0    0    0    0    0    0    0    0    0    0    0
12| 370|  785  416  166   45    7    0    0    0    0    0    0    0    0    0    0    0    0    0
13| 345|  806  440  177   55   10    0    0    0    0    0    0    0    0    0    0    0    0    0
14| 320|  820  458  191   60   15    3    0    0    0    0    0    0    0    0    0    0    0    0
15| 295|  822  467  200   64   20    5    0    0    0    0    0    0    0    0    0    0    0    0
16| 270|  825  476  208   72   23    6    0    0    0    0    0    0    0    0    0    0    0    0
17| 245|  806  482  218   78   26    8    1    0    0    0    0    0    0    0    0    0    0    0
18| 220|  747  450  211   77   23    8    1    0    0    0    0    0    0    0    0    0    0    0
19| 195|  640  387  177   64   20    6    1    0    0    0    0    0    0    0    0    0    0    0
20| 170|  535  329  148   57   16    4    0    0    0    0    0    0    0    0    0    0    0    0
21| 145|  459  287  134   55   19    5    1    0    0    0    0    0    0    0    0    0    0    0
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## NWSB0506 ADCP 1644

Harmonic constants for constituent M2 for deployment NWSB0506.

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	645	228	247	119	205	246	74	23	240	A
02	620	223	248	121	209	244	70	25	241	A
03	595	218	250	121	213	240	66	26	242	A
04	570	212	251	123	217	237	62	28	243	A
05	545	206	253	126	221	234	59	30	245	A
06	520	200	254	128	224	230	56	31	246	A
07	495	195	255	129	228	228	50	32	247	A
08	470	185	256	128	233	222	42	34	248	A
09	445	173	256	126	238	211	32	36	250	A
10	420	160	257	129	244	204	24	39	252	A
11	395	150	260	134	248	200	20	42	255	A
12	370	139	262	137	253	194	15	44	257	A
13	345	130	264	140	257	191	12	47	260	A
14	320	124	265	144	260	190	8	49	262	A
15	295	116	267	149	262	189	7	52	264	A
16	270	110	269	152	264	187	8	54	266	A
17	245	104	270	152	265	184	8	56	267	A
18	220	99	273	153	266	182	11	57	268	A
19	195	94	274	154	267	180	10	59	269	A
20	170	95	276	154	269	181	10	58	271	A
21	145	92	282	157	268	181	19	60	272	A

Harmonic constants for constituent S2 for deployment NWSB0506.

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	645	76	288	42	252	84	23	26	280	A
02	620	76	288	42	254	84	22	27	281	A
03	595	75	289	42	255	83	21	27	281	A
04	570	73	289	42	258	82	19	28	282	A
05	545	70	289	41	260	79	17	28	282	A
06	520	67	288	39	262	77	15	29	282	A
07	495	67	288	40	263	77	14	30	282	A
08	470	67	288	42	263	78	15	31	282	A
09	445	67	291	44	267	78	15	33	284	A
10	420	64	291	44	270	77	13	34	284	A
11	395	61	290	43	275	74	10	35	285	A
12	370	56	290	46	283	72	4	39	287	A
13	345	48	288	48	292	68	2	45	290	C
14	320	43	288	51	301	66	7	50	296	C
15	295	40	291	55	305	67	8	54	300	C
16	270	39	297	55	304	68	4	55	302	C
17	245	38	304	56	303	68	0	56	303	A
18	220	39	313	60	308	71	3	57	309	A
19	195	41	317	60	311	73	4	56	313	A
20	170	42	319	60	309	73	6	55	312	A
21	145	46	319	60	311	76	5	53	314	A

## NWSB0506 ADCP 1644

Harmonic constants for constituent N2 for deployment NWSB0506.

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	645	59	213	24	145	59	22	10	209	A
02	620	57	215	23	154	58	20	13	210	A
03	595	54	217	22	165	56	17	16	212	A
04	570	51	221	21	177	53	14	18	216	A
05	545	47	223	20	191	50	10	21	219	A
06	520	42	228	22	203	47	8	26	223	A
07	495	39	234	24	217	45	6	32	229	A
08	470	36	238	28	225	45	5	38	233	A
09	445	32	247	32	233	45	6	46	240	A
10	420	27	255	34	241	44	5	52	246	A
11	395	23	256	34	246	41	3	56	249	A
12	370	19	256	34	253	39	1	61	254	A
13	345	17	262	36	260	39	1	65	260	A
14	320	16	271	39	260	41	3	68	262	A
15	295	18	273	40	256	44	5	67	259	A
16	270	22	271	42	252	46	6	63	256	A
17	245	23	271	42	249	48	8	63	254	A
18	220	24	274	42	249	48	9	61	254	A
19	195	23	275	43	248	48	9	63	254	A
20	170	25	281	43	250	48	11	62	257	A
21	145	27	285	40	247	46	15	59	258	A

Harmonic constants for constituent O1 for deployment NWSB0506.

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	645	31	343	16	31	33	11	21	350	C
02	620	31	343	16	32	33	11	21	350	C
03	595	30	342	16	32	32	12	22	350	C
04	570	30	341	16	34	31	12	21	349	C
05	545	30	339	16	33	31	12	21	347	C
06	520	28	339	16	33	30	12	23	349	C
07	495	27	337	15	38	29	13	19	345	C
08	470	26	337	15	41	27	13	17	345	C
09	445	25	337	15	40	26	12	19	346	C
10	420	25	332	14	40	26	13	17	341	C
11	395	24	330	14	37	24	12	18	339	C
12	370	24	330	13	34	25	11	16	337	C
13	345	23	330	12	39	24	11	13	336	C
14	320	22	328	11	42	22	10	10	332	C
15	295	21	326	9	47	21	9	5	328	C
16	270	20	321	8	54	20	8	179	141	C
17	245	20	323	7	49	20	7	1	323	C
18	220	20	334	8	38	20	7	11	338	C
19	195	18	346	10	32	20	7	25	355	C
20	170	15	1	14	51	19	9	40	22	C
21	145	9	23	14	76	15	6	65	65	C

## NWSB0506 ADCP 1644

Harmonic constants for constituent K1 for deployment NWSB0506.

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	645	18	209	5	265	18	4	9	211	C
02	620	18	210	5	265	18	4	10	212	C
03	595	18	207	5	259	18	4	11	210	C
04	570	17	208	5	251	18	4	13	211	C
05	545	17	207	6	255	17	4	13	210	C
06	520	16	208	5	260	16	4	13	211	C
07	495	15	204	5	259	16	4	12	208	C
08	470	15	204	6	269	15	5	10	208	C
09	445	14	209	6	269	14	5	13	214	C
10	420	13	200	5	275	14	5	7	203	C
11	395	13	191	3	255	13	3	6	193	C
12	370	12	181	4	176	13	0	17	180	A
13	345	10	167	7	167	12	0	33	167	A
14	320	8	155	9	167	12	1	49	162	C
15	295	6	163	10	158	11	0	57	160	A
16	270	10	182	9	144	13	4	41	166	A
17	245	15	177	8	141	16	4	25	170	A
18	220	16	171	6	202	17	3	19	174	C
19	195	12	192	11	250	15	8	42	218	C
20	170	11	220	15	266	17	7	57	251	C
21	145	8	230	14	269	15	4	65	262	C

## **Deployment Id: NWSC0506**

**Latitude:** 60°34.014'N

**Longitude:** 04°45.936'W

**Echo sounding depth:** 1080m

**Bottom depth corr.:** 1070m

**Time of deployment:** 12/06 -2005 0435UTC

**Time of recovery:** 19/5 - 2006 1048UTC

### **ADCP:**

**Instrument no.:** RDI ADCP 1245

**Instrument frequency:** 75kHz

**Height above bottom:** 419m (corr.)

**Depth:** 651m (corr.)

**Time of first data:** 12/06 - 2005 0520UTC

**Time of last data:** 19/05 - 2006 1020UTC

**Sample interval:** 20 min

**No. of ensembles:** 24568

**Pings per ens.:** 1

**Binlength:** 25m

**Depth of first bin:** 615 m (corr.)

**No. of bins:** 23

### **Aanderaa:**

**Instrument no.:** RCM9 718

**Height above bottom:** 312m

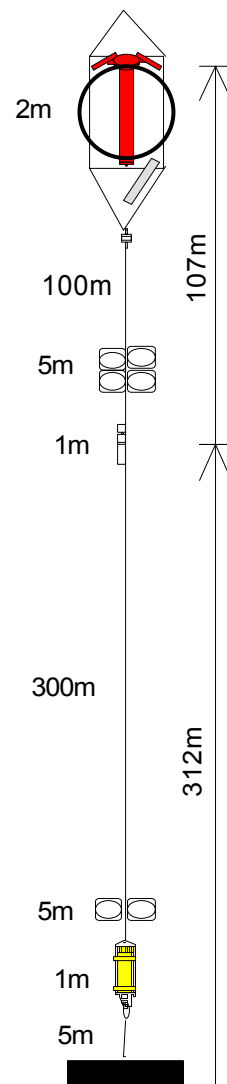
**Depth:** 758m (corr.)

**Time of first data:** 12/06 – 2005 0430 UTC

**Time of last data:** 19/05 – 2006 0930 UTC

**Sample interval:** 60 min

**No. of records:** 8190



**Data:** All data ok, but ADCP velocity is based on 3 beams, only.

## NWSC0506 ADCP1245

Error statistics for deployment: NWSC0506 updated 2006/08/15

Surface distance not edited  
 Heading, pitch and roll not edited  
 Temperature edited by EM in Jun 2006  
 Velocity edited up to and including bin 23 by EJ in Aug 2006  
 Intensity edited up to and including bin 23 by EM in Jun 2006

Total number of ensembles: 24568  
 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: 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	2	42	0	42	0	0	0	0	0	0	0	0	0
2	0	28	0	28	0	0	0	0	0	0	0	0	0
3	0	30	0	28	1	0	0	0	0	0	0	0	0
4	0	39	0	37	1	0	0	0	0	0	0	0	0
5	0	43	0	41	1	0	0	0	0	0	0	0	0
6	0	60	0	58	1	0	0	0	0	0	0	0	0
7	0	98	0	90	4	0	0	0	0	0	0	0	0
8	0	96	0	90	3	0	0	0	0	0	0	0	0
9	0	128	1	111	7	1	0	0	0	0	0	0	0
10	0	122	0	107	6	1	0	0	0	0	0	0	0
11	0	80	0	71	2	0	0	1	0	0	0	0	0
12	0	63	0	55	4	0	0	0	0	0	0	0	0
13	0	71	0	67	2	0	0	0	0	0	0	0	0
14	0	85	0	81	2	0	0	0	0	0	0	0	0
15	0	91	0	84	2	1	0	0	0	0	0	0	0
16	0	218	1	121	10	5	2	3	5	0	0	0	0
17	0	846	3	186	32	17	8	1	20	15	6	0	0
18	0	2018	8	195	32	15	9	7	28	25	30	8	0
19	0	3101	13	195	57	19	7	9	17	40	24	36	0
20	1	3760	15	242	62	18	13	7	19	30	37	45	0
21	1	3685	15	340	123	55	36	19	58	43	22	28	0
22	0	3401	14	552	167	92	57	24	69	39	12	13	0
23	1	6297	26	486	181	73	53	39	91	86	58	31	4

## **NWSC0506 ADCP1245**

Deployment: NWSC0506 updated 2006/08/15  
Instrument no.: 1245  
Instrument freq.: 75  
Latitude: 60 34.014 N  
Longitude: 04 45.936 W  
Bottom depth: 1070  
Instrument depth: 651  
Center depth of first bin: 615  
Bin length: 25  
Number of bins: 23  
Number of first ensemble: 401  
Time of first ensemble: 2005 06 12 05 20  
Number of last ensemble: 24968  
Time of last ensemble: 2006 05 19 10 20  
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	615	455	181	71	191	998
2	590	480	183	70	190	999
3	565	505	183	68	189	999
4	540	530	186	65	187	998
5	515	555	190	63	185	998
6	490	580	193	59	181	998
7	465	605	198	54	176	996
8	440	630	207	50	171	996
9	415	655	217	47	164	995
10	390	680	228	45	156	995
11	365	705	239	43	154	997
12	340	730	247	36	151	997
13	315	755	254	29	145	997
14	290	780	260	24	133	997
15	265	805	265	23	121	996
16	240	830	271	23	113	991
17	215	855	277	25	107	966
18	190	880	281	29	97	918
19	165	905	286	33	91	874
20	140	930	294	38	89	847
21	115	955	305	37	89	850
22	90	980	323	31	101	862
23	65	1005	344	30	121	744



## **NWSC0506 ADCP1245**

Deployment: NWSC0506

Frequency of high speeds.

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

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  615	753	373	130	43	14	4	1	0	0	0	0	0	0	0	0	0	0	0	0
2  590	759	379	131	42	14	4	1	0	0	0	0	0	0	0	0	0	0	0	0
3  565	769	378	129	42	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0
4  540	777	389	134	42	13	4	1	0	0	0	0	0	0	0	0	0	0	0	0
5  515	792	408	139	44	14	4	0	0	0	0	0	0	0	0	0	0	0	0	0
6  490	799	420	153	48	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0
7  465	806	435	165	54	16	4	0	0	0	0	0	0	0	0	0	0	0	0	0
8  440	820	468	193	62	19	5	1	0	0	0	0	0	0	0	0	0	0	0	0
9  415	835	501	220	74	22	5	1	0	0	0	0	0	0	0	0	0	0	0	0
10  390	852	536	256	93	28	7	1	0	0	0	0	0	0	0	0	0	0	0	0
11  365	867	572	287	110	35	9	1	0	0	0	0	0	0	0	0	0	0	0	0
12  340	882	595	310	124	41	13	3	0	0	0	0	0	0	0	0	0	0	0	0
13  315	889	610	333	140	48	16	4	1	0	0	0	0	0	0	0	0	0	0	0
14  290	894	625	346	151	55	18	6	1	0	0	0	0	0	0	0	0	0	0	0
15  265	896	631	359	165	62	22	7	2	0	0	0	0	0	0	0	0	0	0	0
16  240	896	638	375	177	71	26	9	3	1	0	0	0	0	0	0	0	0	0	0
17  215	878	631	379	185	78	30	11	3	1	0	0	0	0	0	0	0	0	0	0
18  190	833	608	370	188	81	32	11	3	1	0	0	0	0	0	0	0	0	0	0
19  165	795	585	360	188	84	34	13	4	1	0	0	0	0	0	0	0	0	0	0
20  140	774	579	367	197	91	40	15	6	2	1	0	0	0	0	0	0	0	0	0
21  115	780	595	388	217	106	50	22	10	5	2	1	0	0	0	0	0	0	0	0
22  90	797	628	421	248	132	66	32	16	9	5	2	1	1	0	0	0	0	0	0
23  65	690	553	389	245	142	79	43	23	12	7	4	2	1	1	0	0	0	0	0

## NWSC0506 ADCP1245

Harmonic constants for constituent M2 for deployment NWSC0506.

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	615	146	255	113	251	184	5	38	253	A
02	590	145	255	116	252	186	5	39	254	A
03	565	142	256	119	253	185	6	40	255	A
04	540	139	258	122	254	185	6	41	256	A
05	515	136	259	125	256	184	6	42	258	A
06	490	132	259	126	257	182	4	44	258	A
07	465	129	259	127	258	181	1	45	258	A
08	440	125	260	129	259	180	1	46	259	A
09	415	121	260	132	261	179	1	47	261	C
10	390	119	260	133	263	178	4	48	262	C
11	365	115	261	131	265	174	6	49	263	C
12	340	109	262	133	267	172	7	51	265	C
13	315	105	264	138	269	173	7	53	267	C
14	290	102	265	141	270	174	6	54	268	C
15	265	100	267	143	271	175	5	55	270	C
16	240	98	268	145	272	175	5	56	271	C
17	215	96	268	145	272	174	5	57	271	C
18	190	92	268	145	273	172	6	58	272	C
19	165	92	273	149	274	175	2	58	274	C
20	140	93	274	154	275	180	0	59	275	C
21	115	96	274	155	273	182	2	58	273	A
22	90	100	273	152	273	182	1	57	273	A
23	65	101	268	149	272	180	6	56	271	C

Harmonic constants for constituent S2 for deployment NWSC0506.

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	615	43	295	48	300	64	3	48	298	C
02	590	43	295	47	300	64	3	48	297	C
03	565	41	294	47	300	62	4	49	297	C
04	540	39	295	49	301	63	4	51	299	C
05	515	40	294	48	302	63	4	50	298	C
06	490	40	292	49	301	63	5	51	297	C
07	465	42	289	48	298	63	5	49	294	C
08	440	44	287	46	297	64	5	46	292	C
09	415	45	289	48	296	66	4	47	293	C
10	390	46	288	48	299	66	6	46	294	C
11	365	47	285	46	301	65	9	45	293	C
12	340	46	284	45	300	64	9	44	291	C
13	315	47	283	44	301	63	10	43	291	C
14	290	48	288	43	300	64	7	42	294	C
15	265	47	294	44	297	64	2	43	295	C
16	240	47	299	44	296	65	2	43	298	A
17	215	48	301	44	295	65	3	43	298	A
18	190	52	305	45	300	69	2	41	303	A
19	165	56	308	45	298	72	6	39	304	A
20	140	55	309	45	294	70	9	39	303	A
21	115	46	304	43	292	63	7	43	299	A
22	90	46	297	42	295	62	1	42	296	A
23	65	43	296	42	299	60	1	45	297	C

## NWSC0506 ADCP1245

Harmonic constants for constituent N2 for deployment NWSC0506.

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	615	30	221	17	233	34	3	29	224	C
02	590	30	220	17	234	34	3	29	223	C
03	565	31	221	18	230	36	3	31	224	C
04	540	31	225	20	229	37	1	33	226	C
05	515	33	227	22	225	39	1	34	226	A
06	490	32	232	24	227	40	2	37	230	A
07	465	32	234	26	225	41	3	39	230	A
08	440	31	232	25	230	40	0	39	231	A
09	415	28	231	24	237	37	2	41	234	C
10	390	26	233	26	247	37	4	45	240	C
11	365	25	237	28	246	37	3	49	242	C
12	340	24	245	32	249	40	1	53	247	C
13	315	23	248	34	248	41	0	56	248	C
14	290	23	254	37	248	43	2	58	249	A
15	265	23	256	39	247	45	3	59	250	A
16	240	24	259	39	247	46	4	59	250	A
17	215	26	264	40	248	48	6	58	253	A
18	190	28	264	43	248	51	7	58	253	A
19	165	28	263	43	246	50	7	57	251	A
20	140	27	262	41	244	48	7	58	249	A
21	115	23	275	39	249	45	9	61	255	A
22	90	21	270	38	244	42	8	62	250	A
23	65	27	266	34	232	42	12	53	245	A

Harmonic constants for constituent O1 for deployment NWSC0506.

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	615	9	7	10	34	14	3	48	22	C
02	590	10	9	10	35	14	3	47	23	C
03	565	10	7	10	38	14	4	47	23	C
04	540	10	4	10	38	14	4	45	21	C
05	515	10	4	9	41	13	4	41	20	C
06	490	9	359	9	39	12	5	43	18	C
07	465	9	4	9	38	13	4	46	22	C
08	440	9	9	10	33	13	3	47	22	C
09	415	10	18	10	31	14	2	45	24	C
10	390	10	17	10	28	14	1	44	23	C
11	365	9	10	10	27	13	2	47	19	C
12	340	10	11	8	37	12	3	40	22	C
13	315	10	0	7	29	12	3	31	8	C
14	290	10	1	7	33	12	3	34	11	C
15	265	10	355	7	40	11	4	34	10	C
16	240	10	354	8	39	12	5	36	10	C
17	215	7	343	6	37	8	4	37	3	C
18	190	4	306	6	49	6	3	102	56	C
19	165	4	175	8	67	8	4	102	62	A
20	140	6	179	8	70	8	5	115	54	A
21	115	5	142	8	49	8	5	93	47	A
22	90	6	134	10	22	10	5	107	13	A
23	65	2	169	9	350	9	0	102	350	A

## NWSC0506 ADCP1245

Harmonic constants for constituent K1 for deployment NWSC0506.

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	615	8	229	3	265	8	2	21	234	C
02	590	7	225	3	268	7	2	18	230	C
03	565	6	226	2	259	7	1	16	229	C
04	540	6	223	2	253	6	1	19	226	C
05	515	6	215	2	245	6	1	14	217	C
06	490	6	219	2	202	6	1	20	217	A
07	465	6	208	2	208	6	0	18	208	C
08	440	5	222	2	255	5	1	24	227	C
09	415	5	236	3	241	6	0	34	238	C
10	390	5	216	6	220	8	0	48	219	C
11	365	3	177	11	198	11	1	76	196	C
12	340	4	95	12	190	12	4	91	190	C
13	315	4	58	12	183	12	3	102	186	C
14	290	0	274	9	178	9	0	90	178	A
15	265	4	225	7	179	8	3	62	190	A
16	240	5	202	6	162	7	3	51	178	A
17	215	6	197	5	151	8	3	40	178	A
18	190	9	229	1	271	9	1	6	230	C
19	165	16	243	7	290	17	5	17	248	C
20	140	19	252	11	306	20	8	22	261	C
21	115	13	243	14	316	15	11	52	286	C
22	90	11	224	8	317	11	8	176	41	C
23	65	11	278	7	302	13	2	31	285	C

# NWSC0506 Aanderaa 718

Deployment: NWSC0506 analyzed from beginning to end  
 Instrument no.: 718  
 Instrument type: Aanderaa  
 Latitude: 60 34.014 N  
 Longitude: 04 45.936 W  
 Bottom depth: 1070  
 Instrument depth: 758  
 Number of records: 8190  
 Time of first record: 2005 06 12 04 30  
 Time of last record : 2006 05 19 09 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	8190	0
Column 8 : Speed	8190	0
Column 9 : Direct	8190	0

Comments  
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Residual current: 74 mm/sec towards: 189 degrees  
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## TIDAL ANALYSIS

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

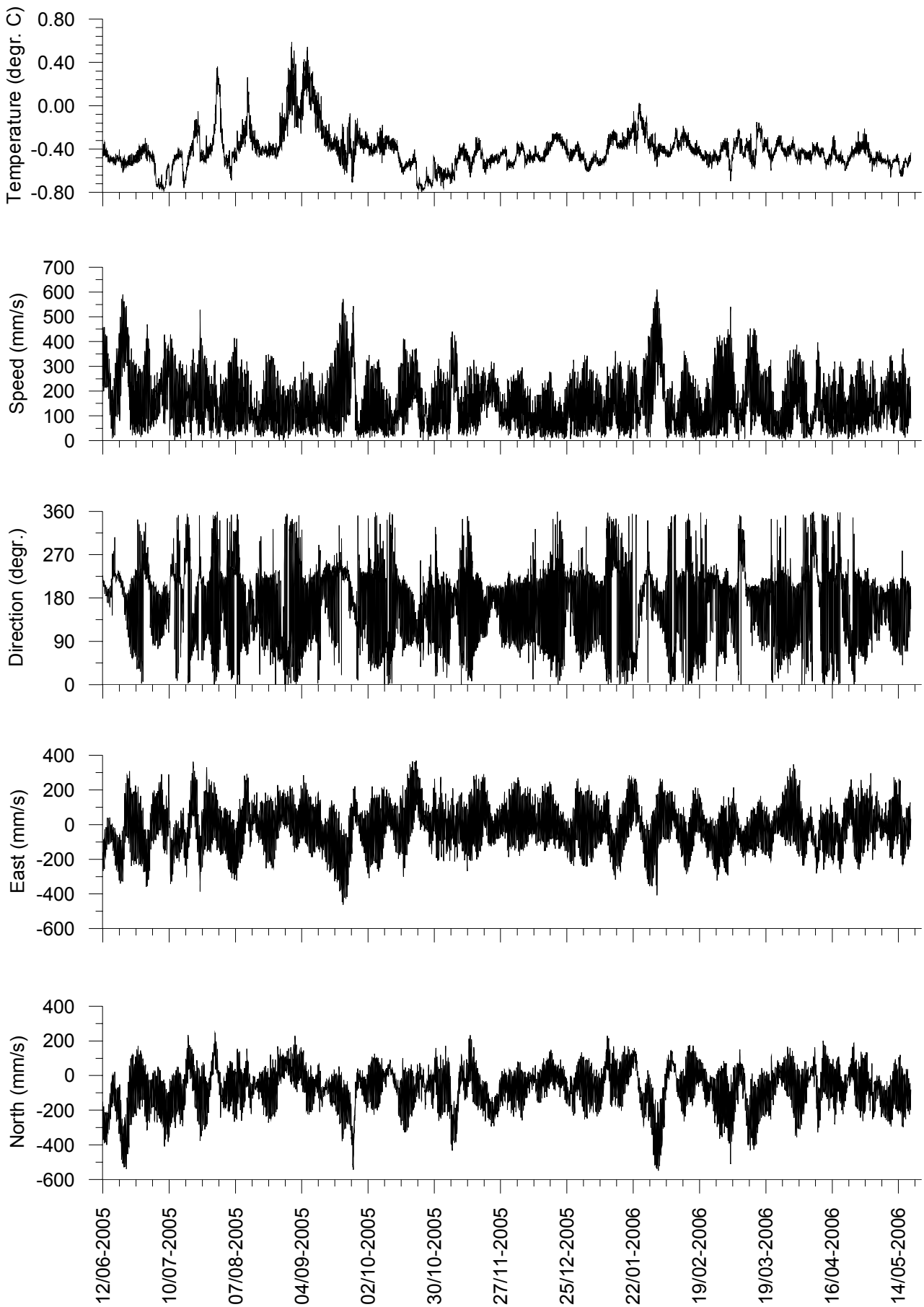
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	12	90	12	113	17	3	46	102	C
MSF	.00282193	13	150	24	246	24	13	95	248	C
Q1	.03721850	5	330	4	3	6	2	38	343	C
O1	.03873065	9	11	10	38	13	3	47	26	C
NO1	.04026859	1	12	0	282	1	0	0	12	A
P1	.04155259	2	239	1	316	2	1	11	245	C
K1	.04178075	7	230	2	253	7	1	18	232	C
N2	.07899925	26	220	14	240	29	4	27	224	C
M2	.08051140	132	253	97	251	164	4	36	253	A
L2	.08202355	2	8	4	290	4	1	85	292	A
S2	.08333334	40	298	42	301	58	1	46	299	C
K2	.08356149	11	295	14	299	18	1	51	297	C
MK3	.12229210	1	208	1	286	1	1	20	223	C
M4	.16102280	2	177	3	311	4	1	113	319	C
MS4	.16384470	2	258	1	358	2	1	158	60	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	12	14	11	13	13	14	9	7	6	6	121	121
50 - 100	10	17	27	27	21	21	25	26	16	9	6	7	213	334
100 - 150	5	16	29	24	16	17	30	39	13	5	3	3	201	535
150 - 200	3	15	28	13	6	13	28	37	13	2	1	2	159	695
200 - 300	2	15	31	10	5	8	47	75	14	0.49	0	0	206	901
300 - 400	0	1	5	2	2	5	21	32	4	0	0	0	72	973
400 - 500	0	0	0	0	0	2	9	9	0.12	0	0	0	20	993
500 - 600	0	0	0	0	0	0	5	2	0	0	0	0	7	1000
600 - 700	0	0	0	0	0	0	0	0.12	0	0	0	0	.12	1000
Total (ppt)	29	74	132	89	62	78	177	234	69	23	16	17		
Rel.flux (ppt)	17	63	125	67	43	68	224	303	63	12	7	8		
Avg.spd (mm/s)	93	137	152	121	112	140	203	208	148	83	71	77		
Max.spd (mm/s)	258	326	370	372	352	484	575	610	490	273	191	194		

**NWSC0506 Aanderaa 718**



**NWSC0506 Aanderaa 718**

