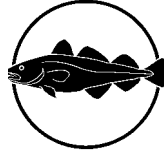


The Faroese Fisheries Laboratory

Fiskirannsóknarstovan



Nordic WOCE ADCP Deployments in Faroese Waters 2004 - 2005

By

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

Technical Report No.: 05-01

Contents

Introduction	3
IFRA0409	6
IFRC0407	15
NWFB0407	26
NWFC0407	35
NWNA0407	42
NWNB0407	49
NWNE0407	56
NWNG0407	63
NWSB0407	73
NWSC0407	80

Introduction

This report documents 10 ADCP deployments in Faroese waters in 2004 – 2005. 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. 8 of the moorings were located at standard (Nordic WOCE) sites. The other two were located on the Iceland-Faroe Ridge.

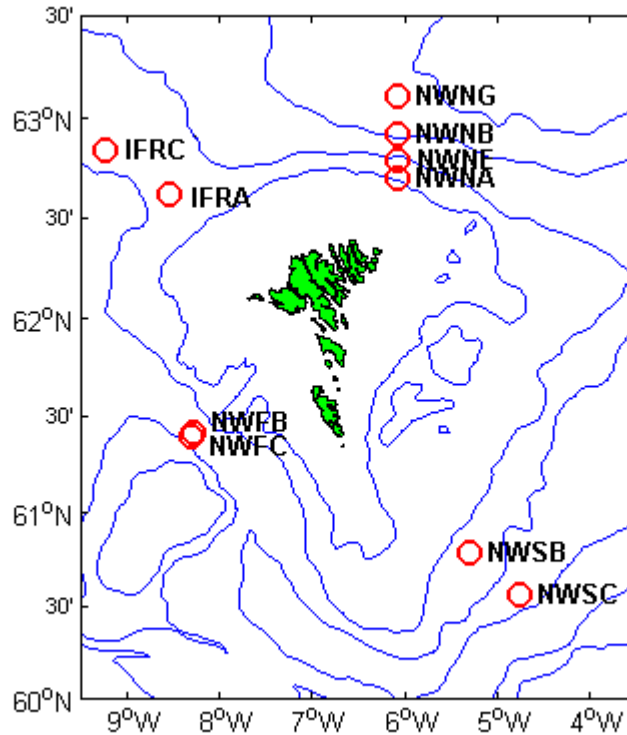


Figure 1. ADCP mooring sites in Faroese waters 2004-2005 superposed on a map with the bottom topography. Each site is indicated by a four-letter label.

At site NWFB, NWFC, NWNB, NWNG, NWSB, and NWSC, 75 kHz RDI Broadband ADCP's were placed in the top of single-point moorings. At site NWNA and NWNE, "shallow-water" rigs were used where a 150 kHz RDI Broadband ADCP was placed on the bottom inside a protective aluminium frame. At IFRA and IFRC, shallow water rigs with 75 kHz RDI Long Rangers were used. For each deployment, the ADCP measures the velocity averaged over a number (15 – 44) of depth layers ("bins") which were 25m for all rigs except for the deployments IFRA, IFRC and NWNA where the depth layers were 10m. At 20 minute intervals, the ADCP records the data from all bins into "ensembles". In these deployments, each ensemble is based only upon one ping, except for IFRA and IFRC, where each ensemble is based upon 12 pings. At sites NWNG and NWSC, an Aanderaa current meter was on the mooring line below the ADCP. The Aanderaa current meters recorded speed, direction and temperature at 60 minute intervals. At two deployments, IFRC and NWFB, Microcats were attached to the ADCP. They record temperature, salinity and pressure every 10 minutes.

At NWFB, the data for the uppermost bins were affected by some instrumental malfunction. Therefore only the deepest 17 bins are included in this record.

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 an Aanderaa or a Microcat instrument was on the mooring.

Deployment	Bottom depth	Int. min.	Valid data period	Dur. days	No bins	Depthrange	Comments
IFRA0409	498	20	2004 09 06-2005 05 24	260	44	50- 480	
IFRC0407	497	20	2004 07 03-2005 05 24	325	43	59- 479	Microcat
NWFB0407	812	20	2004 07 03-2005 05 23	324	17	370- 770	Microcat
NWFC0407	829	20	2004 07 03-2005 05 23	324	26	162- 787	
NWNA0407	293	20	2004 07 02-2005 05 20	321	25	36- 276	
NWNB0407	987	20	2004 07 02-2005 05 20	321	25	97- 697	
NWNE0407	455	20	2004 07 02-2005 05 20	321	15	82- 432	
NWNG0407	1798	20	2004 07 02-2005 05 20	321	22	63- 588	Aanderaa
NWSB0407	786	20	2004 07 03-2005 05 22	322	23	92- 642	
NWSC0407	1068	20	2004 07 04-2005 05 22	322	22	88- 613	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 depth is found from the echo sounding depth (corrected for change in sound velocity) and the length of the mooring line, but at sites NWNB, NWNE, NWNG, NWSB, and NWSC the instrument depth is corrected using the data from the surface echo.

The Aanderaa data have been calibrated using calibration data 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 instruments 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 all include temperature, salinity, pressure and depth. The data are presented on two pages, the first page showing plots of temperature, salinity and depth time series, while the second is a T-S diagram of the recorded data.

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.

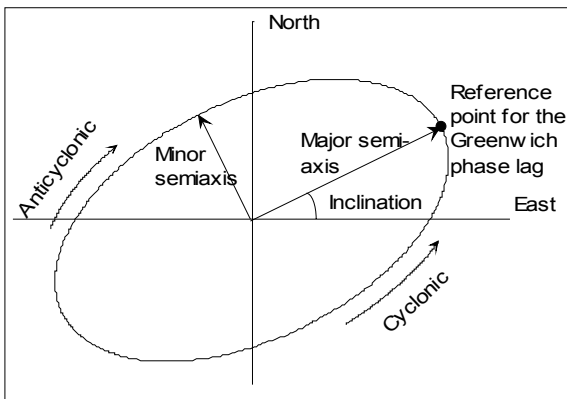


Figure 2. Parameters of the tidal ellipse for a given constituent. The reference point for the Greenwich phase lag is always chosen to be above the east-west axis.

Deployment Id: IFRA0409

Latitude: 62°38.100'N

Longitude: 008°27.200'W

Echo sound depth: 498m

Bottom depth corr.: 498m

Time of deployment: 06/09 - 2004 0855UTC

Time of recovery: 24/05 - 2005 1050UTC

ADCP:

Instrument no.: RDI ADCP 5516 long range

Instrument frequency: 75kHz

Height above bottom: 1m

Depth: 497m (corr.)

Time of first data: 06/09 – 2004 0920UTC

Time of last data: 24/05 – 2005 1000UTC

Sample interval: 20 min

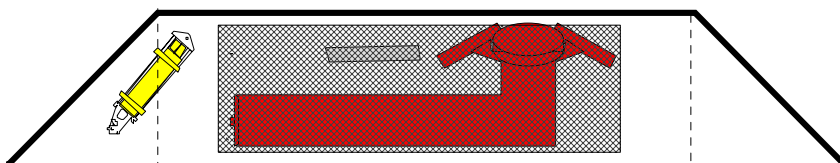
No. of ensembles: 18723

Pings per ens.: 12

Binlength: 10 m

Depth of first bin: 480m (corr.)

No. of bins: 44



Data: All data ok.

IFRA0409 ADCP 5516

Error statistics for deployment: IFRA0409 updated 2005/08/23

Surface distance not available
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 44 by SE in Jul 2005
 Intensity edited up to and including bin 44 by EM in Aug 2005
 Irregularities occur in, but especially after, bin 44

Total number of ensembles: 18723
 Interval between ensembles: 20 min
 Original number of bins: 50
 Number of acceptable velocity bins: 44
 Number of acceptable intensity bins: 44

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	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	40	0	38	1	0	0	0	0	0	0	0	0	0
2	0	47	0	47	0	0	0	0	0	0	0	0	0	0
3	0	63	0	61	1	0	0	0	0	0	0	0	0	0
4	0	61	0	61	0	0	0	0	0	0	0	0	0	0
5	0	86	0	78	4	0	0	0	0	0	0	0	0	0
6	0	104	1	104	0	0	0	0	0	0	0	0	0	0
7	0	61	0	59	1	0	0	0	0	0	0	0	0	0
8	0	36	0	36	0	0	0	0	0	0	0	0	0	0
9	0	61	0	61	0	0	0	0	0	0	0	0	0	0
10	0	72	0	70	1	0	0	0	0	0	0	0	0	0
11	0	55	0	55	0	0	0	0	0	0	0	0	0	0
12	0	66	0	66	0	0	0	0	0	0	0	0	0	0
13	0	66	0	62	2	0	0	0	0	0	0	0	0	0
14	0	75	0	71	2	0	0	0	0	0	0	0	0	0
15	0	89	0	89	0	0	0	0	0	0	0	0	0	0
16	0	97	1	93	2	0	0	0	0	0	0	0	0	0
17	0	66	0	64	1	0	0	0	0	0	0	0	0	0
18	0	69	0	67	1	0	0	0	0	0	0	0	0	0
19	0	98	1	94	2	0	0	0	0	0	0	0	0	0
20	0	104	1	100	2	0	0	0	0	0	0	0	0	0
21	0	128	1	121	2	1	0	0	0	0	0	0	0	0
22	0	129	1	118	4	1	0	0	0	0	0	0	0	0
23	0	65	0	63	1	0	0	0	0	0	0	0	0	0
24	0	53	0	51	1	0	0	0	0	0	0	0	0	0
25	0	124	1	118	3	0	0	0	0	0	0	0	0	0
26	0	131	1	110	5	2	0	1	0	0	0	0	0	0
27	0	197	1	150	11	5	1	0	1	0	0	0	0	0
28	0	227	1	137	18	5	7	1	1	0	0	0	0	0
29	0	294	2	171	31	7	3	2	3	0	0	0	0	0
30	0	404	2	168	41	16	4	5	6	1	0	0	0	0
31	0	547	3	216	44	23	11	7	5	3	1	0	0	0
32	0	666	4	210	52	27	13	6	12	5	1	0	0	0
33	0	778	4	241	45	18	11	4	15	9	4	0	0	0
34	0	930	5	264	71	23	10	3	12	13	5	0	0	0
35	0	1139	6	247	65	29	11	13	14	14	8	2	0	0
36	0	1261	7	311	78	38	17	8	23	15	4	2	0	0
37	0	1362	7	360	67	39	19	11	33	9	5	3	0	0
38	0	1349	7	382	79	35	21	9	27	16	2	3	0	0
39	0	1319	7	463	98	42	27	14	29	5	3	0	0	0
40	0	1394	7	486	114	48	25	21	22	10	1	0	0	0
41	0	1678	9	576	138	55	27	15	23	14	5	0	0	0
42	0	2175	12	676	178	61	32	19	37	22	3	3	0	0
43	0	2843	15	827	202	83	46	29	45	32	6	3	0	0
44	0	3907	21	1150	311	128	60	30	70	34	9	3	0	0

IFRA0409 ADCP 5516

Deployment: IFRA0409 updated 2005/08/23
 Instrument no.: 5516
 Instrument freq.: 75
 Latitude: 62 38.100 N
 Longitude: 08 27.200 W
 Bottom depth: 498
 Instrument depth: 497
 Center depth of first bin: 480
 Bin length: 10
 Number of bins: 44
 Number of first ensemble: 500
 Time of first ensemble: 2004 09 06 09 20
 Number of last ensemble: 19222
 Time of last ensemble: 2005 05 24 10 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	480	480	254	49	320	998
2	470	470	280	44	323	997
3	460	460	295	36	325	997
4	450	450	302	29	327	997
5	440	440	305	22	332	995
6	430	430	305	17	342	994
7	420	420	306	13	357	997
8	410	410	305	12	20	998
9	400	400	304	13	37	997
10	390	390	303	14	52	996
11	380	380	302	18	61	997
12	370	370	301	21	67	996
13	360	360	300	23	70	996
14	350	350	298	25	73	996
15	340	340	295	29	76	995
16	330	330	293	32	76	995
17	320	320	292	35	78	996
18	310	310	292	36	80	996
19	300	300	291	37	80	995
20	290	290	292	38	81	994
21	280	280	292	39	82	993
22	270	270	292	40	83	993
23	260	260	292	41	84	997
24	250	250	292	42	84	997
25	240	240	293	43	85	993
26	230	230	292	44	84	993
27	220	220	293	45	83	989
28	210	210	293	46	82	988
29	200	200	293	47	81	984
30	190	190	293	49	80	978
31	180	180	294	50	80	971
32	170	170	295	50	80	964
33	160	160	295	50	79	958
34	150	150	294	51	78	950
35	140	140	293	52	77	939
36	130	130	293	51	78	933
37	120	120	293	53	79	927
38	110	110	292	51	80	928
39	100	100	293	51	82	930
40	90	90	294	51	83	926
41	80	80	297	51	84	910
42	70	70	298	50	86	884
43	60	60	301	50	87	848
44	50	50	301	50	91	791

IFRA0409 ADCP 5516

Deployment: IFRA0409

Frequency of high speeds.

=====

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

Bin no.	Depth m	Speed (cm/s)																	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1	480	898	628	330	136	39	4	0	0	0	0	0	0	0	0	0	0	0	0
2	470	916	694	411	190	68	14	1	0	0	0	0	0	0	0	0	0	0	0
3	460	919	718	456	229	93	24	3	0	0	0	0	0	0	0	0	0	0	0
4	450	926	731	473	249	106	30	4	0	0	0	0	0	0	0	0	0	0	0
5	440	929	738	481	250	105	32	5	0	0	0	0	0	0	0	0	0	0	0
6	430	928	737	485	250	105	32	6	0	0	0	0	0	0	0	0	0	0	0
7	420	928	744	486	250	103	32	8	1	0	0	0	0	0	0	0	0	0	0
8	410	929	745	483	247	102	31	8	2	0	0	0	0	0	0	0	0	0	0
9	400	927	734	484	247	100	32	9	2	0	0	0	0	0	0	0	0	0	0
10	390	923	730	480	246	101	34	10	3	0	0	0	0	0	0	0	0	0	0
11	380	928	723	475	244	99	33	10	3	0	0	0	0	0	0	0	0	0	0
12	370	924	720	472	243	102	34	12	3	1	0	0	0	0	0	0	0	0	0
13	360	923	711	464	242	101	35	12	3	1	0	0	0	0	0	0	0	0	0
14	350	922	710	454	239	101	35	12	3	1	0	0	0	0	0	0	0	0	0
15	340	915	698	447	236	99	35	12	4	1	0	0	0	0	0	0	0	0	0
16	330	914	693	440	232	99	34	13	4	1	0	0	0	0	0	0	0	0	0
17	320	910	688	435	235	100	34	12	4	1	0	0	0	0	0	0	0	0	0
18	310	912	684	434	230	100	35	12	5	1	0	0	0	0	0	0	0	0	0
19	300	907	683	427	231	101	35	13	5	1	0	0	0	0	0	0	0	0	0
20	290	906	682	430	230	100	37	14	6	1	0	0	0	0	0	0	0	0	0
21	280	910	681	429	229	100	39	14	6	2	0	0	0	0	0	0	0	0	0
22	270	907	683	429	229	101	38	15	6	1	0	0	0	0	0	0	0	0	0
23	260	909	680	426	230	103	38	16	7	1	0	0	0	0	0	0	0	0	0
24	250	911	682	427	227	106	37	16	7	1	0	0	0	0	0	0	0	0	0
25	240	907	682	428	230	105	37	17	7	1	0	0	0	0	0	0	0	0	0
26	230	907	683	426	230	106	39	17	7	2	0	0	0	0	0	0	0	0	0
27	220	906	681	426	230	106	39	17	7	2	0	0	0	0	0	0	0	0	0
28	210	905	675	422	229	107	40	18	7	2	0	0	0	0	0	0	0	0	0
29	200	901	676	419	228	106	39	18	7	2	0	0	0	0	0	0	0	0	0
30	190	898	672	417	225	106	40	18	8	2	0	0	0	0	0	0	0	0	0
31	180	890	667	415	224	105	40	19	8	2	0	0	0	0	0	0	0	0	0
32	170	885	663	408	227	105	41	20	10	3	1	0	0	0	0	0	0	0	0
33	160	878	656	412	224	105	41	19	9	3	0	0	0	0	0	0	0	0	0
34	150	868	648	405	222	103	43	19	9	3	1	0	0	0	0	0	0	0	0
35	140	856	636	397	222	102	42	20	9	3	1	0	0	0	0	0	0	0	0
36	130	853	633	392	217	99	43	19	9	3	1	0	0	0	0	0	0	0	0
37	120	848	628	391	213	100	42	20	9	3	1	0	0	0	0	0	0	0	0
38	110	849	629	389	210	99	43	20	10	4	1	0	0	0	0	0	0	0	0
39	100	850	631	389	210	102	45	21	11	4	1	0	0	0	0	0	0	0	0
40	90	846	635	389	209	102	47	21	10	4	1	0	0	0	0	0	0	0	0
41	80	835	628	387	210	104	48	23	11	6	2	1	0	0	0	0	0	0	0
42	70	809	612	377	206	100	47	22	11	5	2	1	0	0	0	0	0	0	0
43	60	779	589	368	203	104	50	25	12	5	3	1	0	0	0	0	0	0	0
44	50	723	540	339	189	97	47	24	13	7	3	2	1	0	0	0	0	0	0

IFRA0409 ADCP 5516

Harmonic constants for constituent M2 for deployment IFRA0409.

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	480	235	236	108	205	253	53	22	231	A
02	470	266	243	140	200	287	88	23	235	A
03	460	288	246	166	198	312	113	25	237	A
04	450	299	249	183	199	326	128	26	239	A
05	440	303	252	195	202	334	135	27	240	A
06	430	304	255	204	205	338	140	29	242	A
07	420	304	257	213	208	343	144	30	243	A
08	410	303	260	221	211	345	146	32	245	A
09	400	299	262	227	213	345	148	34	246	A
10	390	295	263	229	215	344	147	34	247	A
11	380	292	265	231	217	343	145	35	248	A
12	370	290	266	234	219	343	145	36	249	A
13	360	288	267	235	221	343	144	37	250	A
14	350	285	268	236	222	341	142	37	251	A
15	340	282	269	235	223	340	138	38	251	A
16	330	279	269	233	224	337	136	38	251	A
17	320	275	269	233	225	336	132	38	251	A
18	310	274	269	232	226	335	130	38	252	A
19	300	273	269	232	226	333	130	39	252	A
20	290	271	269	232	226	333	129	39	252	A
21	280	271	269	232	226	332	128	39	252	A
22	270	269	269	231	227	331	127	39	252	A
23	260	268	270	230	227	330	126	39	252	A
24	250	267	269	229	227	329	125	39	252	A
25	240	267	269	229	227	329	124	39	252	A
26	230	267	269	228	228	329	123	39	252	A
27	220	267	269	229	228	329	123	39	252	A
28	210	266	269	228	228	329	122	39	252	A
29	200	265	269	227	228	328	121	39	252	A
30	190	265	269	227	228	327	120	39	252	A
31	180	265	269	226	228	326	120	39	252	A
32	170	263	269	225	228	325	119	39	252	A
33	160	262	269	226	228	326	119	39	252	A
34	150	261	268	224	228	323	118	39	252	A
35	140	260	268	224	228	323	116	39	252	A
36	130	257	269	224	229	321	115	40	252	A
37	120	256	268	223	229	320	113	40	252	A
38	110	255	269	222	229	318	113	40	252	A
39	100	252	269	220	231	317	109	40	253	A
40	90	248	269	218	231	313	106	40	253	A
41	80	247	269	220	233	314	103	41	253	A
42	70	244	269	215	234	310	99	41	254	A
43	60	238	269	217	235	308	95	42	254	A
44	50	221	270	211	236	292	89	44	254	A

IFRA0409 ADCP 5516

Harmonic constants for constituent S2 for deployment IFRA0409.

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	480	90	274	44	243	98	21	24	269	A
02	470	104	283	59	238	114	38	25	274	A
03	460	113	290	72	240	124	50	27	278	A
04	450	117	294	80	242	130	56	29	280	A
05	440	117	297	84	245	132	59	31	282	A
06	430	116	299	86	247	131	59	32	283	A
07	420	113	300	87	250	130	58	34	284	A
08	410	111	303	87	253	129	57	35	286	A
09	400	107	304	88	255	127	56	37	286	A
10	390	107	305	87	257	126	55	37	288	A
11	380	105	305	88	258	125	54	38	287	A
12	370	104	305	88	259	126	52	38	287	A
13	360	102	305	88	261	125	51	39	287	A
14	350	100	306	88	262	123	49	40	287	A
15	340	99	306	87	263	123	48	40	288	A
16	330	98	306	87	264	122	47	40	288	A
17	320	98	306	87	265	123	46	41	288	A
18	310	98	307	87	265	122	46	40	289	A
19	300	96	306	86	266	121	45	41	289	A
20	290	95	307	85	266	120	44	41	289	A
21	280	94	307	85	266	119	44	41	289	A
22	270	95	306	84	266	119	43	41	289	A
23	260	96	307	84	267	120	43	40	290	A
24	250	95	306	83	267	119	42	40	290	A
25	240	96	307	83	268	120	42	40	291	A
26	230	96	308	84	269	121	41	40	292	A
27	220	96	308	82	270	120	41	39	292	A
28	210	96	309	82	270	120	41	40	293	A
29	200	95	309	82	271	119	40	40	293	A
30	190	95	309	82	271	118	41	40	293	A
31	180	94	309	81	271	117	40	40	293	A
32	170	94	309	82	272	118	39	40	293	A
33	160	93	309	80	271	117	39	40	293	A
34	150	91	308	80	272	115	37	40	292	A
35	140	92	308	78	271	114	37	39	293	A
36	130	93	307	78	270	116	38	39	292	A
37	120	90	306	79	270	114	37	40	291	A
38	110	88	306	77	271	111	34	40	291	A
39	100	87	304	76	270	111	33	40	290	A
40	90	87	305	76	269	110	35	40	290	A
41	80	88	304	74	269	110	33	39	290	A
42	70	82	304	73	268	105	34	41	289	A
43	60	80	302	73	268	103	31	42	287	A
44	50	79	301	66	264	98	32	39	286	A

IFRA0409 ADCP 5516

Harmonic constants for constituent N2 for deployment IFRA0409.

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	480	38	215	23	212	44	1	31	214	A
02	470	45	225	27	196	51	12	30	217	A
03	460	50	228	31	187	56	18	29	218	A
04	450	49	229	33	184	56	21	30	217	A
05	440	50	228	32	180	55	21	28	216	A
06	430	52	227	32	177	57	23	27	216	A
07	420	56	227	33	176	60	24	25	217	A
08	410	60	230	36	180	65	25	26	219	A
09	400	62	234	41	186	69	27	28	222	A
10	390	64	237	46	188	73	31	31	223	A
11	380	66	240	49	188	75	34	33	224	A
12	370	66	241	52	189	76	35	34	224	A
13	360	67	242	51	190	76	35	33	226	A
14	350	67	243	52	190	76	36	33	226	A
15	340	68	242	53	189	78	37	34	225	A
16	330	68	241	54	190	79	36	35	223	A
17	320	67	242	55	192	79	36	36	224	A
18	310	66	243	56	194	78	36	38	224	A
19	300	65	245	55	195	78	35	38	225	A
20	290	65	245	56	196	79	35	39	225	A
21	280	64	245	56	197	78	35	39	225	A
22	270	63	246	56	197	77	36	40	226	A
23	260	63	247	56	197	77	35	40	226	A
24	250	63	246	56	197	77	35	40	225	A
25	240	62	246	55	197	76	34	40	225	A
26	230	62	245	55	198	76	32	40	225	A
27	220	62	244	55	198	76	33	40	224	A
28	210	60	245	55	198	75	33	41	225	A
29	200	60	245	54	198	74	32	41	224	A
30	190	60	243	54	199	74	30	41	224	A
31	180	58	244	54	198	73	30	42	223	A
32	170	58	243	54	201	73	28	42	224	A
33	160	56	244	53	202	72	28	43	224	A
34	150	55	244	53	203	72	27	44	224	A
35	140	54	246	52	204	70	26	44	226	A
36	130	51	246	52	208	69	24	46	227	A
37	120	48	246	52	213	68	20	48	228	A
38	110	47	247	52	214	68	20	49	228	A
39	100	48	247	50	213	66	20	47	229	A
40	90	45	247	51	212	65	20	49	227	A
41	80	46	246	52	211	66	21	49	226	A
42	70	45	243	54	211	67	19	51	224	A
43	60	43	245	53	210	66	20	52	223	A
44	50	35	243	52	212	61	16	58	221	A

IFRA0409 ADCP 5516

Harmonic constants for constituent O1 for deployment IFRA0409.

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	480	28	33	5	315	28	5	2	32	A
02	470	28	30	6	296	28	6	179	210	A
03	460	28	28	8	288	28	7	177	209	A
04	450	27	24	8	277	27	7	175	205	A
05	440	28	21	8	274	28	8	175	202	A
06	430	28	22	7	270	28	7	174	203	A
07	420	29	19	7	266	29	6	174	201	A
08	410	29	20	6	276	30	6	177	201	A
09	400	29	22	5	269	29	5	176	203	A
10	390	29	20	6	278	29	6	177	200	A
11	380	29	19	7	274	29	7	176	200	A
12	370	28	19	7	275	28	7	176	199	A
13	360	28	19	8	269	29	8	174	200	A
14	350	28	19	8	265	28	7	173	201	A
15	340	28	19	7	265	28	7	174	201	A
16	330	28	19	7	263	28	6	174	200	A
17	320	27	17	6	256	27	5	173	198	A
18	310	27	18	6	256	28	5	174	199	A
19	300	28	19	6	256	28	5	173	201	A
20	290	27	16	6	260	27	6	174	198	A
21	280	27	17	6	263	27	6	174	198	A
22	270	26	15	6	261	26	6	174	196	A
23	260	25	16	6	259	25	6	173	198	A
24	250	25	15	6	255	25	5	173	196	A
25	240	25	15	6	264	25	6	175	196	A
26	230	25	13	6	264	25	6	175	194	A
27	220	25	11	6	259	25	6	174	193	A
28	210	26	11	7	258	26	6	174	193	A
29	200	25	10	6	258	25	6	174	191	A
30	190	25	12	6	258	25	6	174	193	A
31	180	25	10	6	246	25	5	173	191	A
32	170	26	12	7	250	26	6	172	193	A
33	160	25	11	8	255	26	7	172	193	A
34	150	25	11	8	248	25	7	169	194	A
35	140	27	9	9	248	27	8	169	192	A
36	130	26	11	9	252	27	7	170	194	A
37	120	27	10	9	253	27	8	170	192	A
38	110	29	11	8	245	29	6	171	193	A
39	100	28	9	7	247	28	6	172	191	A
40	90	27	7	9	231	27	6	166	190	A
41	80	28	9	7	230	29	5	169	190	A
42	70	26	3	9	223	27	5	166	186	A
43	60	21	357	6	232	21	5	170	179	A
44	50	21	349	3	248	21	3	178	169	A

IFRA0409 ADCP 5516

Harmonic constants for constituent K1 for deployment IFRA0409.

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	480	27	270	9	177	27	9	179	91	A
02	470	28	265	10	157	29	10	173	87	A
03	460	28	262	11	147	28	10	170	85	A
04	450	27	260	10	139	28	9	168	84	A
05	440	28	257	10	136	28	9	168	81	A
06	430	28	254	11	131	28	9	166	79	A
07	420	28	255	12	130	29	10	164	81	A
08	410	27	255	13	127	28	10	160	83	A
09	400	28	255	15	130	29	11	160	83	A
10	390	30	253	14	131	31	11	164	79	A
11	380	29	253	14	129	31	11	163	79	A
12	370	28	254	13	129	30	11	163	80	A
13	360	27	255	13	131	28	10	161	82	A
14	350	25	256	12	132	26	10	162	83	A
15	340	24	259	11	134	25	9	163	85	A
16	330	23	264	11	129	25	7	160	90	A
17	320	24	267	9	133	25	7	164	91	A
18	310	24	269	8	128	25	5	165	92	A
19	300	24	270	7	133	25	5	167	93	A
20	290	25	270	8	133	26	5	166	93	A
21	280	26	269	8	130	26	5	167	92	A
22	270	25	268	9	131	26	6	165	92	A
23	260	25	269	9	133	26	6	165	93	A
24	250	25	266	9	131	26	6	165	89	A
25	240	25	264	9	135	25	7	165	88	A
26	230	25	264	10	134	26	7	164	89	A
27	220	24	263	10	136	25	7	165	88	A
28	210	24	261	9	139	25	7	168	85	A
29	200	25	260	8	145	25	8	171	83	A
30	190	26	260	9	148	27	8	172	83	A
31	180	26	259	8	153	26	7	175	81	A
32	170	27	257	8	158	27	8	177	78	A
33	160	27	254	8	162	27	8	179	74	A
34	150	27	256	7	168	27	7	1	256	A
35	140	28	255	7	169	28	7	1	255	A
36	130	29	250	6	179	29	6	4	249	A
37	120	28	254	7	171	28	7	2	253	A
38	110	28	253	8	178	28	7	4	251	A
39	100	26	251	8	182	26	7	7	249	A
40	90	27	254	8	163	27	8	180	74	A
41	80	27	252	8	171	27	8	3	251	A
42	70	24	260	6	170	24	6	180	80	A
43	60	22	272	6	186	22	6	1	271	A
44	50	18	249	5	253	19	0	14	250	C

Deployment Id: IFRC0407

Latitude: 62°45.805'N

Longitude: 009°42.697'W

Echo sound depth: 493m

Bottom depth corr.: 497m

Time of deployment: 03/07 - 2004 0257UTC

Time of recovery: 24/05 - 2005 0600UTC

ADCP:

Instrument no.: RDI ADCP 3368 long range

Instrument frequency: 75kHz

Height above bottom: 1m

Depth: 496m (corr.)

Time of first data: 03/07 – 2004 0320UTC

Time of last data: 24/05 – 2005 0500UTC

Sample interval: 20 min

No. of ensembles: 23406

Pings per ens.: 12

Binlength: 10 m

Depth of first bin: 479m (corr.)

No. of bins: 43

Micro Cat:

Instrument no.: 0981

Height above bottom: 1m

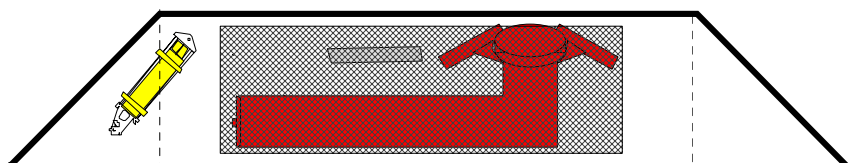
Time of first data: 03/07 - 2004 0310UTC

Time of last data: 24/05 - 2005 0530UTC

Sample interval: 10 min

No. of ensembles: 46803

Instrument depth: 496m



Data: All data ok.

IFRC0407 ADCP 3368

Error statistics for deployment: IFRC0407 updated 2005/08/23

Surface distance not available
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 43 by SE in Aug 2005
 Intensity edited up to and including bin 43 by EM in Aug 2005
 Irregularities occur especially after bin 43

Total number of ensembles: 23406
 Interval between ensembles: 20 min
 Original number of bins: 50
 Number of acceptable velocity bins: 43
 Number of acceptable intensity bins: 43

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	Velocity % flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	54	0	54	0	0	0	0	0	0	0	0	0	0
2	0	47	0	47	0	0	0	0	0	0	0	0	0	0
3	0	64	0	62	1	0	0	0	0	0	0	0	0	0
4	0	46	0	44	1	0	0	0	0	0	0	0	0	0
5	0	63	0	61	1	0	0	0	0	0	0	0	0	0
6	0	62	0	62	0	0	0	0	0	0	0	0	0	0
7	0	64	0	62	1	0	0	0	0	0	0	0	0	0
8	0	65	0	63	1	0	0	0	0	0	0	0	0	0
9	0	77	0	75	1	0	0	0	0	0	0	0	0	0
10	0	43	0	37	3	0	0	0	0	0	0	0	0	0
11	0	43	0	43	0	0	0	0	0	0	0	0	0	0
12	0	53	0	53	0	0	0	0	0	0	0	0	0	0
13	0	38	0	38	0	0	0	0	0	0	0	0	0	0
14	0	55	0	55	0	0	0	0	0	0	0	0	0	0
15	0	56	0	54	1	0	0	0	0	0	0	0	0	0
16	0	63	0	63	0	0	0	0	0	0	0	0	0	0
17	0	54	0	54	0	0	0	0	0	0	0	0	0	0
18	0	52	0	50	1	0	0	0	0	0	0	0	0	0
19	0	38	0	33	1	1	0	0	0	0	0	1	0	0
20	0	67	0	65	1	0	0	0	0	0	0	0	0	0
21	0	44	0	42	1	0	0	0	0	0	0	1	0	0
22	0	48	0	48	0	0	0	0	0	0	0	0	0	0
23	0	56	0	54	1	0	0	0	0	0	0	0	0	0
24	0	35	0	31	0	0	1	0	0	0	0	0	0	0
25	0	36	0	32	2	0	0	0	0	0	0	0	0	0
26	0	51	0	33	6	2	0	0	0	0	0	0	0	0
27	0	130	1	78	13	2	1	2	1	0	0	0	0	0
28	0	217	1	95	29	8	2	1	2	1	0	0	0	0
29	0	337	1	123	35	17	7	2	5	2	0	0	0	0
30	0	460	2	136	43	23	9	2	7	4	1	0	0	0
31	0	595	3	162	42	24	6	9	11	7	1	0	0	0
32	0	761	3	212	51	22	11	9	20	4	1	2	0	0
33	0	957	4	237	51	24	17	10	26	6	2	3	0	0
34	0	1061	5	270	57	22	21	11	20	14	4	0	0	0
35	0	1293	6	248	85	39	18	13	27	14	7	2	0	0
36	0	1352	6	302	86	41	17	17	33	10	4	3	0	0
37	0	1417	6	352	99	37	27	21	28	15	4	1	0	0
38	0	1472	6	434	97	49	18	18	31	16	2	1	0	0
39	0	1468	6	465	141	64	17	13	25	15	0	0	0	0
40	0	1617	7	527	139	46	19	15	20	14	6	1	0	0
41	0	2037	9	604	166	76	34	17	29	16	8	0	0	0
42	0	2610	11	673	182	91	45	24	37	22	11	4	0	0
43	0	3243	14	780	227	101	64	28	63	26	12	1	1	1

IFRC0407 ADCP 3368

Deployment: IFRC0407 updated 2005/08/23
Instrument no.: 3368
Instrument freq.: 75
Latitude: 62 45.805 N
Longitude: 09 42.697 W
Bottom depth: 497
Instrument depth: 496
Center depth of first bin: 479
Bin length: 10
Number of bins: 43
Number of first ensemble: 254
Time of first ensemble: 2004 07 03 03 20
Number of last ensemble: 23659
Time of last ensemble: 2005 05 24 05 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	479	18	226	26	219	998
2	469	28	239	24	219	998
3	459	38	247	22	217	997
4	449	48	253	18	214	998
5	439	58	256	17	203	997
6	429	68	259	16	194	997
7	419	78	262	17	184	997
8	409	88	267	18	172	997
9	399	98	273	19	156	997
10	389	108	280	21	143	998
11	379	118	285	24	131	998
12	369	128	291	27	124	998
13	359	138	296	31	120	998
14	349	148	301	34	116	998
15	339	158	304	37	114	998
16	329	168	308	40	112	997
17	319	178	312	43	111	998
18	309	188	314	45	109	998
19	299	198	317	47	108	998
20	289	208	320	49	108	997
21	279	218	322	52	107	998
22	269	228	325	53	107	998
23	259	238	327	54	106	998
24	249	248	328	55	106	999
25	239	258	330	56	107	998
26	229	268	331	57	107	998
27	219	278	332	58	106	994
28	209	288	334	59	107	991
29	199	298	335	58	107	986
30	189	308	336	58	108	980
31	179	318	337	58	108	975
32	169	328	338	59	108	967
33	159	338	340	58	109	959
34	149	348	342	58	109	955
35	139	358	342	57	110	945
36	129	368	344	59	110	942
37	119	378	347	60	110	939
38	109	388	349	61	110	937
39	99	398	353	62	108	937
40	89	408	355	62	107	931
41	79	418	357	62	105	913
42	69	428	359	61	103	888
43	59	438	363	61	98	861

IFRC0407 ADCP 3368

Deployment: IFRC0407

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
1 479	848	521	256	98	30	8	1	0	0	0	0	0	0	0	0	0	0	0
2 469	866	554	291	124	43	12	2	0	0	0	0	0	0	0	0	0	0	0
3 459	870	579	313	142	50	15	4	1	0	0	0	0	0	0	0	0	0	0
4 449	877	595	324	149	58	18	4	1	0	0	0	0	0	0	0	0	0	0
5 439	883	607	334	155	59	18	4	0	0	0	0	0	0	0	0	0	0	0
6 429	883	616	342	162	64	20	4	1	0	0	0	0	0	0	0	0	0	0
7 419	883	618	354	170	67	21	5	1	0	0	0	0	0	0	0	0	0	0
8 409	887	631	368	178	74	25	5	1	0	0	0	0	0	0	0	0	0	0
9 399	891	648	383	191	81	26	7	1	0	0	0	0	0	0	0	0	0	0
10 389	899	668	401	197	90	30	8	2	1	0	0	0	0	0	0	0	0	0
11 379	908	681	415	210	96	35	10	2	1	0	0	0	0	0	0	0	0	0
12 369	911	691	431	221	100	38	12	4	1	0	0	0	0	0	0	0	0	0
13 359	917	699	439	230	105	42	14	4	1	0	0	0	0	0	0	0	0	0
14 349	923	708	451	238	112	47	18	6	2	1	0	0	0	0	0	0	0	0
15 339	925	710	456	249	119	50	20	7	2	1	0	0	0	0	0	0	0	0
16 329	928	719	464	255	123	53	23	8	3	1	0	0	0	0	0	0	0	0
17 319	930	728	475	260	129	57	26	9	3	1	0	0	0	0	0	0	0	0
18 309	932	733	475	265	132	61	27	11	3	1	0	0	0	0	0	0	0	0
19 299	934	734	483	269	138	64	29	12	4	1	0	0	0	0	0	0	0	0
20 289	932	740	490	275	143	67	31	14	4	1	0	0	0	0	0	0	0	0
21 279	936	743	490	281	146	69	32	15	5	1	0	0	0	0	0	0	0	0
22 269	934	745	496	285	149	74	35	16	5	2	1	0	0	0	0	0	0	0
23 259	936	748	500	289	154	76	37	17	6	2	1	0	0	0	0	0	0	0
24 249	935	747	505	290	156	79	40	18	7	2	1	0	0	0	0	0	0	0
25 239	938	749	505	294	156	81	41	18	8	3	1	0	0	0	0	0	0	0
26 229	938	748	511	297	160	84	42	19	8	3	1	0	0	0	0	0	0	0
27 219	931	750	509	297	161	85	43	22	8	3	1	0	0	0	0	0	0	0
28 209	930	748	510	299	163	88	44	22	9	2	1	0	0	0	0	0	0	0
29 199	928	745	509	301	164	88	47	23	9	3	1	0	0	0	0	0	0	0
30 189	923	744	506	300	162	87	47	23	9	3	1	0	0	0	0	0	0	0
31 179	918	744	507	300	165	89	48	24	10	3	1	1	0	0	0	0	0	0
32 169	910	737	505	299	165	88	50	25	10	3	1	0	0	0	0	0	0	0
33 159	902	732	503	299	165	90	51	25	11	4	1	0	0	0	0	0	0	0
34 149	899	732	503	297	167	93	52	27	12	4	1	1	0	0	0	0	0	0
35 139	891	725	498	293	165	92	52	28	12	5	1	1	0	0	0	0	0	0
36 129	889	725	498	298	169	93	54	29	14	5	2	1	0	0	0	0	0	0
37 119	888	724	499	298	171	98	55	31	15	6	2	1	0	0	0	0	0	0
38 109	886	725	501	305	174	100	56	31	15	7	3	1	0	0	0	0	0	0
39 99	887	732	507	311	179	104	61	34	17	8	3	1	1	0	0	0	0	0
40 89	882	731	510	312	179	105	60	34	19	8	3	1	1	0	0	0	0	0
41 79	866	717	504	311	178	104	61	35	20	9	3	1	1	0	0	0	0	0
42 69	841	700	497	305	176	102	61	36	19	10	4	1	1	0	0	0	0	0
43 59	815	681	491	307	177	103	61	35	20	10	4	1	0	0	0	0	0	0

IFRC0407 ADCP 3368

Harmonic constants for constituent M2 for deployment IFRC0407.

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	479	157	241	122	212	193	48	37	230	A
02	469	171	250	150	214	216	70	40	235	A
03	459	178	257	173	216	233	87	44	238	A
04	449	182	264	190	220	243	99	47	241	A
05	439	184	269	201	222	250	106	49	243	A
06	429	185	273	209	224	255	113	50	244	A
07	419	188	275	217	225	261	120	51	245	A
08	409	192	276	224	225	267	127	52	245	A
09	399	198	277	231	224	274	133	52	245	A
10	389	204	278	238	224	280	140	52	245	A
11	379	209	278	243	223	286	146	52	245	A
12	369	213	278	246	223	290	149	52	245	A
13	359	215	278	249	223	292	151	52	245	A
14	349	216	278	251	222	294	153	52	244	A
15	339	217	278	253	222	296	154	53	244	A
16	329	219	278	254	222	297	157	53	244	A
17	319	221	278	256	221	299	158	52	244	A
18	309	223	278	257	221	301	159	52	244	A
19	299	223	278	258	221	301	160	52	244	A
20	289	224	278	259	221	302	161	52	244	A
21	279	224	279	259	221	303	161	53	244	A
22	269	225	278	260	221	304	162	52	244	A
23	259	225	278	261	221	304	162	53	244	A
24	249	226	278	261	221	305	163	53	244	A
25	239	226	279	261	221	304	163	53	244	A
26	229	226	279	261	221	305	164	53	244	A
27	219	226	279	261	221	304	164	52	244	A
28	209	226	278	261	221	304	163	52	244	A
29	199	226	278	260	221	303	163	52	244	A
30	189	226	278	259	221	303	162	52	243	A
31	179	227	278	258	220	302	163	52	243	A
32	169	225	278	258	221	302	162	52	243	A
33	159	228	277	257	220	303	163	51	243	A
34	149	227	277	258	220	303	162	52	243	A
35	139	228	278	257	220	302	164	51	243	A
36	129	229	277	259	220	304	163	51	243	A
37	119	229	277	259	220	304	165	51	243	A
38	109	230	278	261	219	305	168	52	243	A
39	99	231	278	262	219	306	168	52	243	A
40	89	232	278	262	219	306	169	52	243	A
41	79	234	278	264	219	308	172	52	243	A
42	69	235	277	262	218	308	172	51	243	A
43	59	234	277	262	218	307	171	51	242	A

IFRC0407 ADCP 3368

Harmonic constants for constituent S2 for deployment IFRC0407.

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	479	56	278	44	250	70	16	37	267	A
02	469	63	286	53	251	78	25	39	272	A
03	459	65	293	61	253	84	31	42	275	A
04	449	66	298	66	255	87	34	45	277	A
05	439	66	303	70	258	89	37	47	279	A
06	429	67	306	73	260	91	39	48	281	A
07	419	67	308	75	261	92	40	49	282	A
08	409	69	311	76	262	94	42	50	283	A
09	399	69	312	78	261	95	45	51	282	A
10	389	70	313	81	261	97	47	51	282	A
11	379	72	314	83	261	99	48	52	282	A
12	369	75	315	86	261	102	51	52	283	A
13	359	77	316	87	260	103	54	51	283	A
14	349	77	315	88	259	104	55	52	281	A
15	339	77	316	90	260	104	55	53	281	A
16	329	76	316	91	260	106	54	54	281	A
17	319	77	315	91	260	106	54	54	280	A
18	309	77	315	91	260	107	54	53	281	A
19	299	77	315	92	260	107	54	54	280	A
20	289	77	315	92	260	107	55	54	280	A
21	279	77	316	93	259	107	56	54	280	A
22	269	78	316	95	259	109	57	54	280	A
23	259	79	316	95	260	110	57	54	280	A
24	249	81	316	94	260	110	58	53	281	A
25	239	81	316	95	259	110	58	53	281	A
26	229	81	317	95	259	110	59	53	281	A
27	219	81	317	95	259	110	59	53	281	A
28	209	82	316	95	259	110	59	53	281	A
29	199	82	316	96	259	111	59	53	281	A
30	189	83	316	95	259	111	59	52	282	A
31	179	82	316	97	259	113	59	53	281	A
32	169	83	316	98	259	113	61	53	281	A
33	159	83	316	97	260	113	59	53	281	A
34	149	84	317	98	260	114	61	53	281	A
35	139	85	315	98	258	115	61	52	281	A
36	129	85	314	97	258	114	60	52	281	A
37	119	85	314	98	258	115	60	53	279	A
38	109	82	313	95	257	112	57	52	279	A
39	99	81	312	95	258	112	56	52	279	A
40	89	81	312	94	259	112	54	52	280	A
41	79	78	310	95	259	111	52	54	278	A
42	69	80	312	94	259	111	54	52	280	A
43	59	79	317	94	260	109	58	54	281	A

IFRC0407 ADCP 3368

Harmonic constants for constituent N2 for deployment IFRC0407.

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	479	37	203	19	168	40	10	25	196	A
02	469	40	209	24	170	44	13	28	200	A
03	459	41	216	29	175	47	16	32	204	A
04	449	42	223	33	182	50	18	37	208	A
05	439	40	231	36	189	50	19	42	213	A
06	429	41	238	40	193	53	22	45	216	A
07	419	40	244	43	197	54	23	48	219	A
08	409	40	250	45	200	54	25	50	221	A
09	399	39	252	46	203	55	25	52	222	A
10	389	40	252	47	202	56	25	52	222	A
11	379	40	253	47	202	56	26	52	222	A
12	369	41	254	48	201	56	28	52	222	A
13	359	43	255	49	200	58	30	51	223	A
14	349	44	256	51	201	60	30	53	223	A
15	339	45	258	53	202	62	31	53	223	A
16	329	47	257	55	202	64	33	53	223	A
17	319	46	259	56	203	64	33	54	224	A
18	309	47	261	56	204	65	34	55	224	A
19	299	48	262	57	203	65	35	54	224	A
20	289	48	262	57	203	65	36	54	225	A
21	279	48	262	57	204	66	35	54	225	A
22	269	48	262	57	203	65	36	55	225	A
23	259	47	263	57	203	65	36	55	224	A
24	249	47	263	57	204	65	36	55	225	A
25	239	47	263	57	204	65	35	55	224	A
26	229	47	263	57	204	65	35	56	224	A
27	219	47	262	57	203	65	36	55	224	A
28	209	48	262	56	203	64	36	54	225	A
29	199	48	261	57	203	65	35	54	225	A
30	189	47	261	56	202	64	36	55	223	A
31	179	46	262	57	202	64	36	57	222	A
32	169	46	262	57	201	64	36	56	222	A
33	159	46	261	57	201	64	35	57	221	A
34	149	45	261	55	201	62	34	56	222	A
35	139	45	261	55	202	63	34	56	222	A
36	129	44	261	56	202	63	34	58	220	A
37	119	47	260	57	199	64	36	56	219	A
38	109	44	258	56	199	63	34	57	218	A
39	99	46	257	58	198	65	35	57	218	A
40	89	48	256	58	194	65	38	56	215	A
41	79	46	254	57	194	64	35	56	214	A
42	69	46	255	56	194	63	36	56	215	A
43	59	48	253	57	194	65	35	54	216	A

IFRC0407 ADCP 3368

Harmonic constants for constituent O1 for deployment IFRC0407.

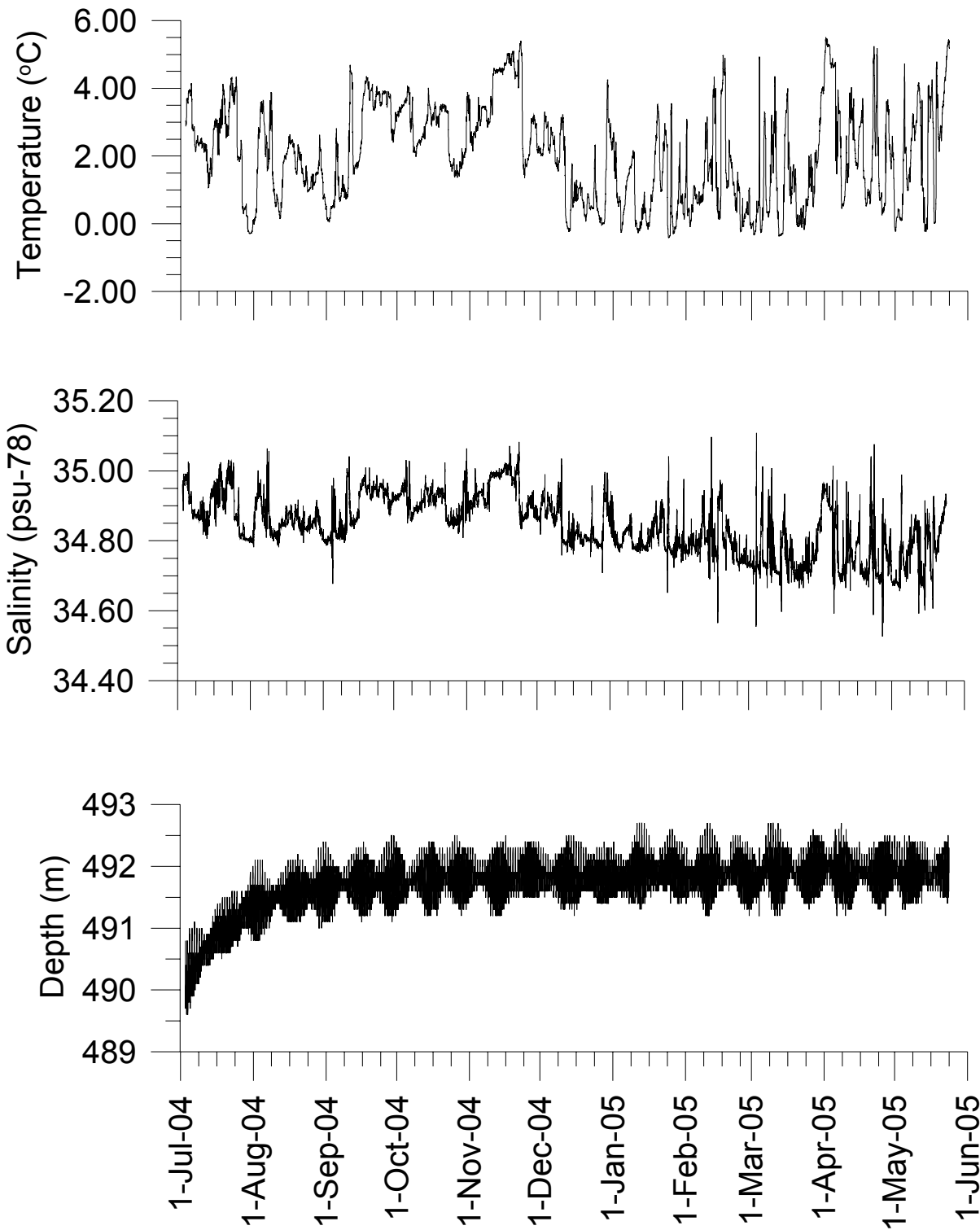
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	479	26	13	13	284	26	13	0	13	A
02	469	27	9	14	277	27	14	179	190	A
03	459	28	6	15	266	28	15	173	190	A
04	449	29	4	16	261	29	15	171	189	A
05	439	28	3	16	263	28	15	172	187	A
06	429	28	2	17	264	28	16	172	187	A
07	419	28	3	16	269	28	16	176	185	A
08	409	29	3	16	267	29	16	175	186	A
09	399	30	5	17	267	30	17	173	189	A
10	389	30	5	17	268	30	17	174	188	A
11	379	30	5	17	267	30	16	174	188	A
12	369	29	5	17	267	29	17	172	190	A
13	359	29	5	17	266	29	17	173	189	A
14	349	30	6	18	268	30	17	173	190	A
15	339	30	7	18	268	30	17	172	192	A
16	329	30	8	18	270	30	18	173	192	A
17	319	29	9	17	270	30	17	173	193	A
18	309	30	9	17	270	30	17	172	193	A
19	299	29	8	17	269	29	17	171	193	A
20	289	29	8	17	266	29	17	170	194	A
21	279	28	7	17	268	28	17	171	193	A
22	269	29	7	18	268	29	17	171	193	A
23	259	29	7	18	269	29	17	173	191	A
24	249	29	8	18	270	29	18	172	193	A
25	239	29	7	17	270	29	17	173	191	A
26	229	30	8	17	268	30	17	172	192	A
27	219	29	6	17	266	29	17	171	192	A
28	209	28	7	17	262	29	16	168	193	A
29	199	27	6	17	264	28	16	168	193	A
30	189	27	7	18	263	27	17	165	197	A
31	179	27	7	18	259	28	17	161	199	A
32	169	26	8	17	260	27	16	162	199	A
33	159	27	7	17	258	27	16	162	197	A
34	149	27	8	18	257	28	16	158	202	A
35	139	28	9	17	259	29	16	162	199	A
36	129	29	5	17	260	30	17	168	192	A
37	119	26	8	17	260	27	16	163	198	A
38	109	26	8	18	262	27	17	161	201	A
39	99	27	12	18	265	27	17	162	204	A
40	89	25	15	18	263	27	15	158	208	A
41	79	27	16	18	263	29	16	159	208	A
42	69	28	14	14	254	29	12	162	202	A
43	59	26	16	14	255	27	11	161	205	A

IFRC0407 ADCP 3368

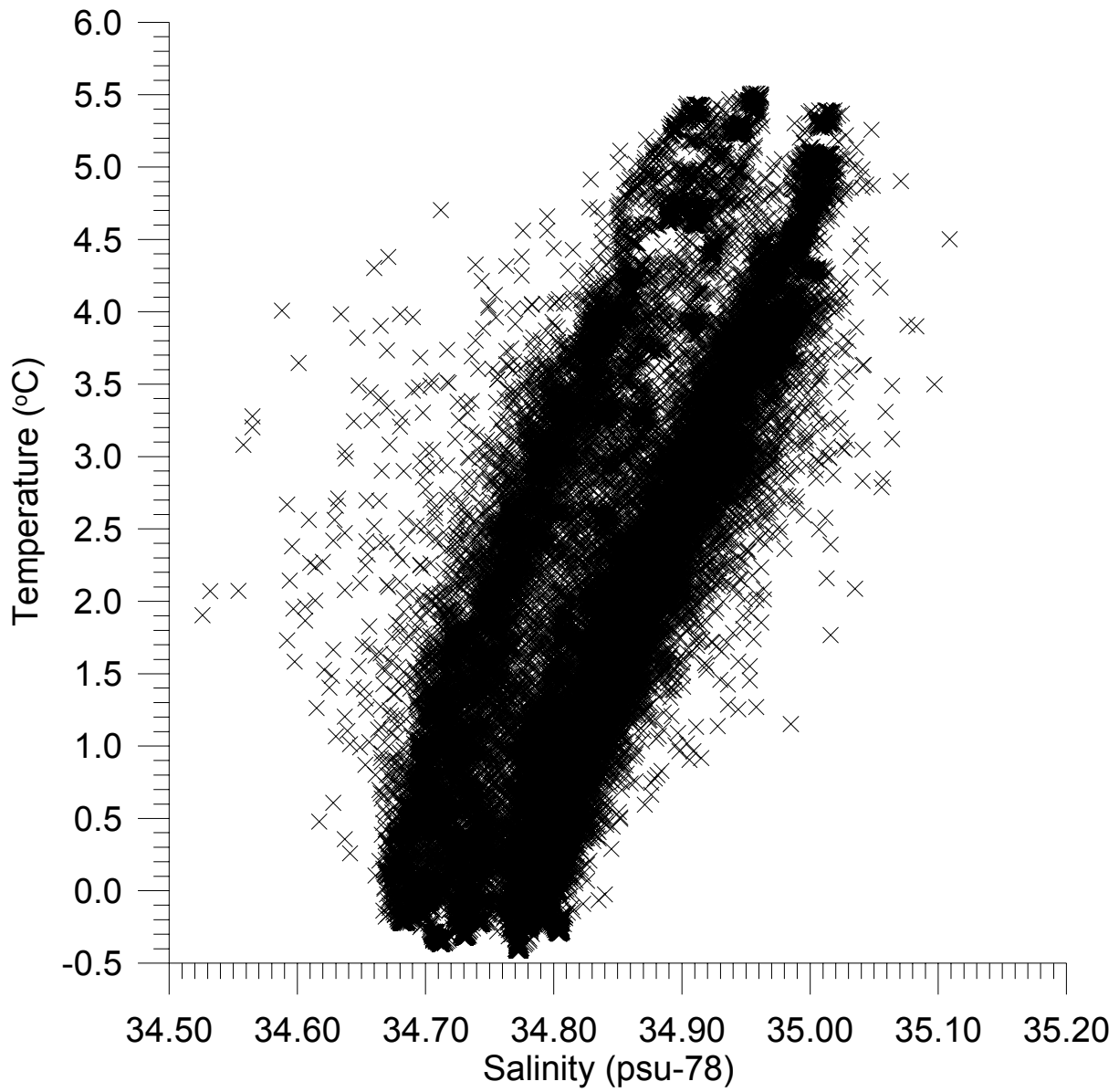
Harmonic constants for constituent K1 for deployment IFRC0407.

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	479	29	261	18	173	29	18	2	260	A
02	469	28	257	18	167	28	18	1	256	A
03	459	28	254	20	161	28	20	177	76	A
04	449	28	252	19	156	28	19	172	77	A
05	439	28	257	18	154	28	17	166	86	A
06	429	28	256	18	152	29	17	167	83	A
07	419	29	254	19	155	30	19	170	80	A
08	409	29	251	20	153	30	19	170	77	A
09	399	30	252	18	154	30	18	172	76	A
10	389	30	253	18	153	30	18	171	78	A
11	379	30	253	19	156	30	18	173	77	A
12	369	31	253	20	155	31	20	171	79	A
13	359	31	255	20	155	31	20	169	82	A
14	349	31	254	21	155	31	21	169	81	A
15	339	30	253	21	156	30	20	170	80	A
16	329	30	252	21	157	30	20	173	77	A
17	319	29	250	20	157	30	20	176	73	A
18	309	29	249	20	156	29	20	175	73	A
19	299	29	250	20	153	29	20	171	76	A
20	289	29	250	20	151	29	20	168	78	A
21	279	28	249	20	150	28	19	167	78	A
22	269	27	250	19	150	28	19	168	78	A
23	259	27	250	20	148	27	19	163	82	A
24	249	26	248	20	147	27	19	162	81	A
25	239	26	246	21	144	27	20	159	81	A
26	229	27	245	21	142	28	20	158	81	A
27	219	26	246	21	142	28	19	157	83	A
28	209	26	245	22	142	27	20	155	84	A
29	199	26	246	22	143	27	21	153	87	A
30	189	26	245	21	143	27	20	157	82	A
31	179	26	243	22	146	26	21	163	76	A
32	169	26	245	22	145	27	21	157	84	A
33	159	26	245	22	148	27	21	165	77	A
34	149	26	246	22	146	27	21	159	82	A
35	139	26	244	22	143	27	21	157	83	A
36	129	26	247	22	145	27	20	155	87	A
37	119	26	249	22	144	28	20	152	90	A
38	109	25	249	21	142	27	19	149	92	A
39	99	26	248	21	147	27	20	161	82	A
40	89	25	250	21	150	26	20	156	90	A
41	79	22	253	21	150	24	19	140	107	A
42	69	20	253	21	155	22	18	123	126	A
43	59	22	248	20	169	24	19	32	221	A

IFRC0407 MicroCat 0981



IFRC0407 MicroCat 0981



Deployment Id: NWFB0407

Latitude: 61°24.974'N

Longitude: 008°16.906'W

Echo sounding depth: 821m

Bottom depth corr.: 812m

Time of deployment: 03/07 - 2004 1206UTC

Time of recovery: 23/05 - 2005 1528UTC

ADCP:

Instrument no.: RDI ADCP 1642

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 806m (corr.)

Time of first data: 03/07 - 2004 1240UTC

Time of last data: 23/05 - 2005 1520UTC

Sample interval: 20 min

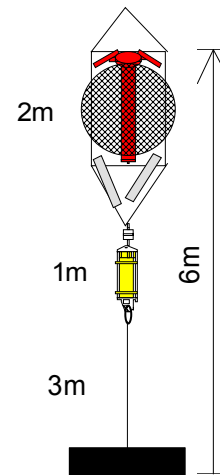
No. of ensembles: 23337

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 770m (corr.)

No. of bins: 17



Micro Cat: (The protective plugs were on the MicroCat during deployment)

Instrument no.: 1993

Height above bottom: 5m

Time of first data: 03/07 - 2004 1240UTC

Time of last data: 23/05 - 2005 1530UTC

Sample interval: 10 min

No. of ensembles: 46377

Instrument depth: 807m

Data: All ADCP data ok. Two days missing in Microcat data.

NWFB0407 ADCP 1642

Error statistics for deployment: NWFB0407 updated 2005/08/23

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 17 by SE in Aug 2005
 Intensity edited up to and including bin 17 by EM in Aug 2005
 Irregularities occur after bin 17

Total number of ensembles: 23337
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 17
 Number of acceptable intensity bins: 17

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: 57

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	31	0	29	1	0	0	0	0	0	0	0	0
2	0	11	0	11	0	0	0	0	0	0	0	0	0
3	0	8	0	8	0	0	0	0	0	0	0	0	0
4	0	14	0	14	0	0	0	0	0	0	0	0	0
5	0	18	0	16	1	0	0	0	0	0	0	0	0
6	0	47	0	43	2	0	0	0	0	0	0	0	0
7	0	116	0	106	3	0	1	0	0	0	0	0	0
8	0	222	1	178	19	2	0	0	0	0	0	0	0
9	0	366	2	303	28	1	1	0	0	0	0	0	0
10	0	464	2	384	35	2	1	0	0	0	0	0	0
11	0	459	2	373	40	2	0	0	0	0	0	0	0
12	0	354	2	285	30	3	0	0	0	0	0	0	0
13	0	295	1	230	23	3	1	0	1	0	0	0	0
14	0	335	1	244	22	7	4	2	0	0	0	0	0
15	0	531	2	345	44	16	5	6	0	0	0	0	0
16	0	1035	4	597	125	34	8	4	5	0	0	0	0
17	0	1808	8	976	201	62	18	11	15	1	0	0	0

NWFB0407 ADCP 1642

Deployment: NWFB0407 updated 2005/08/23
Instrument no.: 1642
Instrument freq.: 75
Latitude: 61 24.974 N
Longitude: 08 16.906 W
Bottom depth: 812
Instrument depth: 806
Center depth of first bin: 770
Bin length: 25
Number of bins: 17
Number of first ensemble: 216
Time of first ensemble: 2004 07 03 12 40
Number of last ensemble: 23552
Time of last ensemble: 2005 05 23 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	770	42	918	913	301	999
2	745	67	982	977	304	1000
3	720	92	1006	1001	306	1000
4	695	117	1009	1004	308	999
5	670	142	997	991	308	999
6	645	167	962	954	309	998
7	620	192	893	877	311	995
8	595	217	782	753	313	990
9	570	242	640	588	316	984
10	545	267	494	409	319	980
11	520	292	374	254	322	980
12	495	317	294	143	327	985
13	470	342	253	76	335	987
14	445	367	233	38	360	986
15	420	392	227	33	53	977
16	395	417	228	53	81	956
17	370	442	234	78	90	923

NWFB0407 ADCP 1642

Deployment: NWFB0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 770| 999 999 999 998 996 974 914 781 558 310 118 27 3 0 0 0 0 0
2| 745| 1000 1000 1000 1000 998 986 945 870 710 479 243 80 13 1 0 0 0 0
3| 720| 1000 1000 1000 999 998 986 950 889 754 541 307 117 20 1 0 0 0 0
4| 695| 999 999 999 998 993 979 947 889 760 554 326 124 22 1 0 0 0 0
5| 670| 999 998 995 990 981 965 931 868 737 539 317 124 21 1 0 0 0 0
6| 645| 995 989 981 971 956 930 890 815 674 490 285 111 19 1 0 0 0 0
7| 620| 988 972 952 932 904 860 801 702 559 396 225 83 14 1 0 0 0 0
8| 595| 976 942 895 848 795 726 645 537 413 275 146 49 9 1 0 0 0 0
9| 570| 953 881 790 705 629 549 458 357 252 147 66 18 3 0 0 0 0
10| 545| 927 804 660 536 437 349 267 188 113 55 18 4 0 0 0 0
11| 520| 901 716 518 362 260 185 120 67 33 11 2 0 0 0 0 0
12| 495| 878 643 396 230 130 70 36 18 9 2 0 0 0 0 0 0 0
13| 470| 861 590 314 142 58 24 12 6 2 0 0 0 0 0 0 0 0
14| 445| 846 546 268 101 32 10 3 1 0 0 0 0 0 0 0 0 0
15| 420| 839 529 249 89 23 4 0 0 0 0 0 0 0 0 0 0 0
16| 395| 820 532 249 83 21 4 0 0 0 0 0 0 0 0 0 0 0
17| 370| 799 534 258 88 22 4 0 0 0 0 0 0 0 0 0 0 0
-----

```

NWFB0407 ADCP 1642

Harmonic constants for constituent M2 for deployment NWFB0407.

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	770	23	72	16	337	23	16	173	257	A
02	745	27	75	15	330	27	15	168	262	A
03	720	28	80	14	326	29	13	165	267	A
04	695	28	89	12	324	29	10	164	275	A
05	670	28	99	12	312	30	6	160	283	A
06	645	26	117	13	288	29	2	153	295	C
07	620	27	132	15	274	30	9	154	304	C
08	595	33	152	18	256	33	17	169	326	C
09	570	39	178	22	228	42	16	23	187	C
10	545	44	206	35	199	56	3	39	203	A
11	520	50	237	57	188	69	32	51	208	A
12	495	62	257	81	181	83	58	69	196	A
13	470	70	263	93	179	94	69	81	186	A
14	445	74	267	98	179	99	74	86	181	A
15	420	75	270	101	179	101	75	92	178	A
16	395	72	275	101	181	102	72	96	177	A
17	370	71	279	100	185	100	70	96	181	A

Harmonic constants for constituent S2 for deployment NWFB0407.

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	770	10	99	7	20	10	7	15	89	A
02	745	11	104	7	13	11	7	179	285	A
03	720	12	111	8	14	12	8	172	296	A
04	695	11	115	8	7	11	7	159	308	A
05	670	11	127	6	358	11	5	154	318	A
06	645	11	153	4	357	11	1	161	335	A
07	620	13	181	2	298	13	2	175	0	C
08	595	13	208	5	241	14	3	20	212	C
09	570	14	241	12	237	18	1	41	239	A
10	545	16	275	20	233	24	9	52	249	A
11	520	23	293	30	225	32	20	63	242	A
12	495	28	304	37	219	37	28	81	225	A
13	470	28	305	38	215	38	28	89	216	A
14	445	26	306	37	214	37	26	93	212	A
15	420	24	310	35	214	35	24	97	210	A
16	395	22	314	35	215	35	21	99	210	A
17	370	20	320	33	222	33	19	97	218	A

NWFB0407 ADCP 1642

Harmonic constants for constituent N2 for deployment NWFB0407.

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	770	3	66	3	241	4	0	137	244	C
02	745	5	60	3	230	6	0	146	237	C
03	720	6	58	4	238	7	0	146	238	A
04	695	8	59	4	240	9	0	151	239	A
05	670	8	59	4	260	9	1	155	243	A
06	645	10	80	3	281	10	1	163	262	A
07	620	14	100	3	322	14	2	172	281	A
08	595	16	109	3	329	16	2	171	291	A
09	570	14	118	2	219	14	2	178	297	C
10	545	9	137	9	191	11	6	45	164	C
11	520	8	178	14	185	16	1	60	183	C
12	495	11	203	18	169	21	5	62	177	A
13	470	14	216	21	160	23	10	64	173	A
14	445	14	226	23	157	23	13	72	167	A
15	420	13	231	23	155	24	13	79	160	A
16	395	12	230	23	154	23	12	80	159	A
17	370	11	229	20	163	21	10	75	170	A

Harmonic constants for constituent O1 for deployment NWFB0407.

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	770	21	331	10	142	23	1	154	149	C
02	745	23	332	12	144	26	2	153	151	C
03	720	24	332	14	143	27	2	149	150	C
04	695	24	333	16	146	28	2	146	151	C
05	670	25	337	17	153	30	1	146	156	C
06	645	30	343	20	157	35	2	147	161	C
07	620	33	348	24	163	41	2	145	166	C
08	595	35	352	27	169	44	1	143	171	C
09	570	33	352	29	171	43	0	139	171	C
10	545	28	355	26	167	39	3	137	172	C
11	520	24	8	22	170	32	5	137	180	C
12	495	18	22	18	172	25	6	136	187	C
13	470	16	31	15	176	21	7	137	194	C
14	445	16	38	14	178	20	7	140	201	C
15	420	16	41	14	181	20	7	141	205	C
16	395	15	44	15	180	19	8	136	203	C
17	370	12	50	15	182	17	7	124	198	C

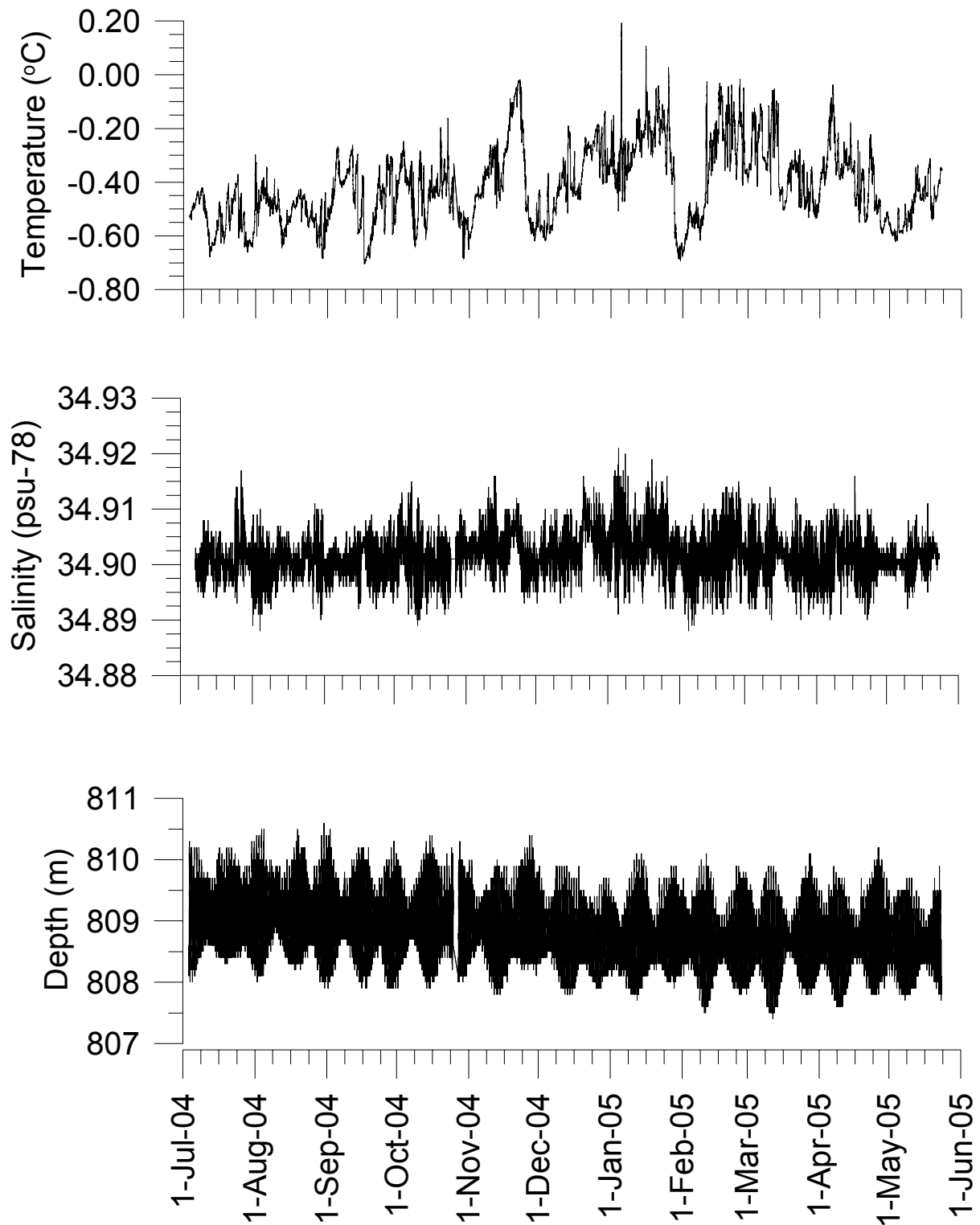
NWFB0407 ADCP 1642

Harmonic constants for constituent K1 for deployment NWFB0407.

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	770	16	233	9	57	19	1	151	54	A
02	745	18	236	11	58	21	0	150	56	A
03	720	20	239	12	58	23	0	148	58	C
04	695	21	242	14	59	25	0	146	61	C
05	670	21	247	15	67	26	0	144	67	A
06	645	23	251	17	76	29	1	144	73	A
07	620	29	250	21	78	35	2	144	73	A
08	595	33	245	25	69	41	1	142	66	A
09	570	33	248	27	61	42	3	141	65	C
10	545	26	252	27	61	37	4	134	66	C
11	520	20	260	25	61	32	5	128	68	C
12	495	16	273	21	69	26	5	127	78	C
13	470	16	284	20	80	25	5	127	89	C
14	445	17	291	20	80	25	7	129	92	C
15	420	19	294	20	75	26	9	134	94	C
16	395	24	287	19	70	29	9	143	93	C
17	370	27	288	15	70	30	9	154	101	C

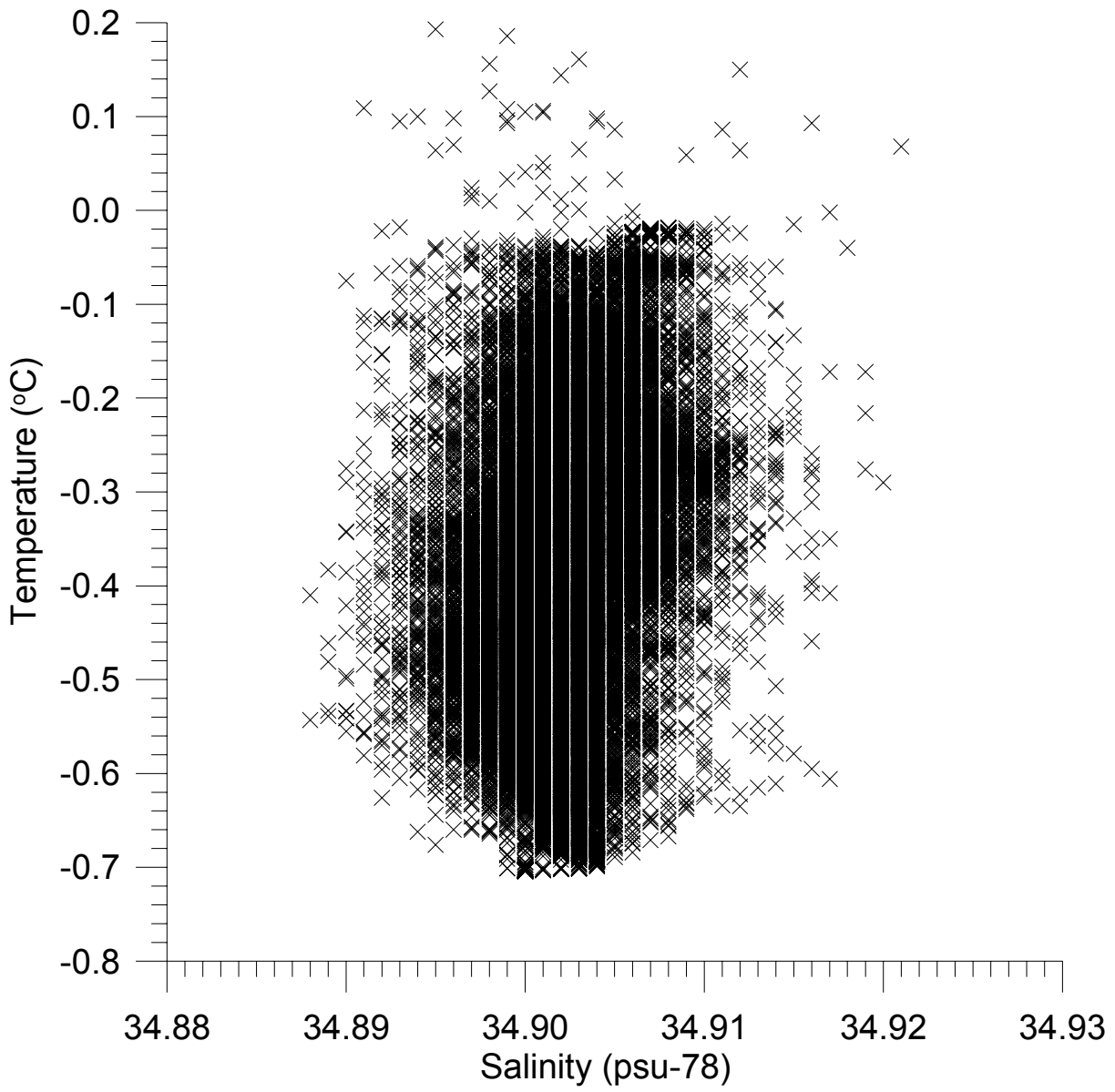
NWFB0407 MicroCat 1993

The protective plugs were on the MicroCat during deployment



NWFB0407 MicroCat 1993

The protective plugs were on the MicroCat during deployment



Deployment Id: NWFC0407

Latitude: 61°23.444'N

Longitude: 008°19.000'W

Echo sounding depth: 838m

Bottom depth corr.: 829m

Time of deployment: 03/07 -2004 1226UTC

Time of recovery: 23/5 - 2005 1602UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 823m (corr.)

Time of first data: 03/07 - 2004 1300UTC

Time of last data: 23/05 - 2005 1540UTC

Sample interval: 20 min

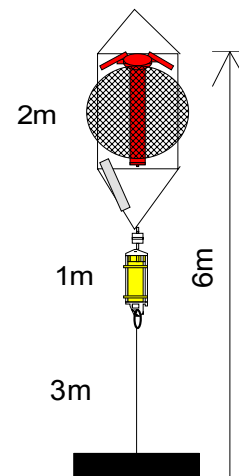
No. of ensembles: 23337

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 787m (corr.)

No. of bins: 26



Data: All data ok.

NWFC0407 ADCP 1285

Error statistics for deployment: NWFC0407 updated 2005/09/28

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 26 by SE in Sep 2005
 Intensity edited by EM in Sep 2005
 Irregularities occur in, but especially after, bin 26

Total number of ensembles: 23337
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 26
 Number of acceptable intensity bins: 26

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

Number of temperature ens. flagged: 11

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	3	40	0	40	0	0	0	0	0	0	0	0	0
2	9	54	0	48	3	0	0	0	0	0	0	0	0
3	10	114	0	98	5	2	0	0	0	0	0	0	0
4	0	305	1	256	21	1	1	0	0	0	0	0	0
5	0	681	3	508	62	12	2	1	0	0	0	0	0
6	0	1093	5	801	106	18	4	2	0	0	0	0	0
7	0	1576	7	1082	158	37	10	3	2	0	0	0	0
8	0	1702	7	1117	188	40	17	3	1	0	0	0	0
9	0	1417	6	947	155	34	9	3	1	0	0	0	0
10	0	1132	5	744	133	22	11	1	1	0	0	0	0
11	0	745	3	493	71	23	6	2	1	0	0	0	0
12	0	621	3	413	58	17	5	3	1	0	0	0	0
13	0	556	2	383	41	13	7	3	1	0	0	0	0
14	0	470	2	348	38	3	6	1	1	0	0	0	0
15	0	412	2	299	27	11	4	2	0	0	0	0	0
16	0	325	1	238	25	3	3	2	1	0	0	0	0
17	0	461	2	305	35	4	6	4	1	2	0	0	0
18	0	727	3	327	36	20	7	5	7	8	2	0	0
19	0	1255	5	352	50	21	10	7	16	14	10	2	0
20	0	1341	6	249	67	34	17	9	31	25	5	1	0
21	0	2828	12	562	136	46	33	11	54	45	20	3	0
22	0	3918	17	849	182	79	57	27	95	42	19	8	0
23	2	5015	21	886	257	103	73	62	125	76	22	3	0
24	0	6733	29	1082	315	152	83	48	120	96	35	18	2
25	2	8336	36	1228	339	180	110	50	158	83	49	37	4
26	1	10803	46	1436	479	234	159	72	181	96	50	43	13

NWFC0407 ADCP 1285

Deployment: NWFC0407 updated 2005/09/28
Instrument no.: 1285
Instrument freq.: 75
Latitude: 61 23.444 N
Longitude: 08 19.000 W
Bottom depth: 829
Instrument depth: 823
Center depth of first bin: 787
Bin length: 25
Number of bins: 26
Number of first ensemble: 217
Time of first ensemble: 2004 07 03 13 00
Number of last ensemble: 23553
Time of last ensemble: 2005 05 23 15 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	787	42	969	963	305	998
2	762	67	1026	1020	308	998
3	737	92	1022	1016	310	995
4	712	117	988	980	312	987
5	687	142	921	908	312	971
6	662	167	793	765	312	953
7	637	192	612	547	314	932
8	612	217	440	308	318	927
9	587	242	321	121	329	939
10	562	267	255	32	56	951
11	537	292	229	76	113	968
12	512	317	220	105	120	973
13	487	342	218	120	123	976
14	462	367	218	128	125	980
15	437	392	220	132	127	982
16	412	417	222	134	128	986
17	387	442	223	136	129	980
18	362	467	225	137	130	969
19	337	492	227	139	131	946
20	312	517	232	141	131	943
21	287	542	232	140	131	879
22	262	567	232	138	131	832
23	237	592	234	138	131	785
24	212	617	235	137	133	711
25	187	642	235	136	134	643
26	162	667	240	142	136	537

NWFC0407 ADCP 1285

Deployment: NWFC0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 787| 997 995 993 991 985 966 926 837 674 457 244 90 20 2 0 0 0 0
2| 762| 996 994 991 988 983 971 946 892 784 594 373 174 47 7 1 0 0 0
3| 737| 993 988 985 981 975 960 932 883 782 597 374 173 46 6 1 0 0 0
4| 712| 983 975 967 956 945 926 896 836 723 535 326 147 41 6 1 0 0 0
5| 687| 959 940 924 907 887 855 805 725 598 426 257 123 41 8 1 0 0 0
6| 662| 931 887 844 800 760 702 626 526 407 287 178 94 34 7 1 0 0 0
7| 637| 884 785 695 617 547 468 392 307 228 156 95 50 19 4 1 0 0 0
8| 612| 844 682 533 413 328 259 200 147 101 64 32 14 4 1 0 0 0
9| 587| 832 605 395 255 169 117 80 49 25 11 4 1 0 0 0 0 0
10| 562| 823 545 303 149 72 36 17 8 2 0 0 0 0 0 0 0 0
11| 537| 824 518 255 97 29 10 3 1 0 0 0 0 0 0 0 0 0
12| 512| 823 504 232 81 19 4 1 0 0 0 0 0 0 0 0 0 0
13| 487| 824 494 225 78 20 3 0 0 0 0 0 0 0 0 0 0 0
14| 462| 826 497 227 79 22 4 0 0 0 0 0 0 0 0 0 0 0
15| 437| 833 503 235 81 22 4 0 0 0 0 0 0 0 0 0 0 0
16| 412| 836 507 239 85 24 5 0 0 0 0 0 0 0 0 0 0 0
17| 387| 831 513 242 87 25 6 1 0 0 0 0 0 0 0 0 0 0
18| 362| 821 510 243 88 26 7 1 0 0 0 0 0 0 0 0 0 0
19| 337| 803 502 244 92 28 8 1 0 0 0 0 0 0 0 0 0 0
20| 312| 802 510 259 100 32 10 2 1 0 0 0 0 0 0 0 0 0
21| 287| 748 478 240 95 31 10 1 0 0 0 0 0 0 0 0 0 0
22| 262| 706 455 231 90 31 9 1 0 0 0 0 0 0 0 0 0 0
23| 237| 666 434 220 89 29 8 1 0 0 0 0 0 0 0 0 0 0
24| 212| 607 395 204 81 27 7 1 0 0 0 0 0 0 0 0 0 0
25| 187| 547 356 186 73 24 6 1 0 0 0 0 0 0 0 0 0 0
26| 162| 460 303 164 67 21 6 1 0 0 0 0 0 0 0 0 0 0
-----

```

NWFC0407 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC0407.

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	787	13	100	12	282	18	0	139	281	A
02	762	14	100	13	278	20	0	137	279	C
03	737	17	98	16	281	24	1	136	280	A
04	712	18	99	22	293	28	3	129	287	A
05	687	26	108	32	309	40	7	130	300	A
06	662	44	119	41	322	59	12	138	309	A
07	637	61	131	40	331	72	12	147	317	A
08	612	60	147	22	341	63	5	160	328	A
09	587	50	176	10	120	50	8	7	175	A
10	562	48	214	43	151	55	33	38	189	A
11	537	55	239	66	157	67	53	71	172	A
12	512	59	250	76	162	76	59	87	164	A
13	487	59	256	79	166	79	59	90	166	A
14	462	59	264	82	172	82	59	92	171	A
15	437	61	269	85	178	85	61	92	177	A
16	412	63	275	87	182	88	63	94	180	A
17	387	64	279	90	185	91	64	95	181	A
18	362	65	283	92	188	93	65	97	183	A
19	337	67	287	95	191	95	67	98	186	A
20	312	69	289	96	194	97	68	97	189	A
21	287	70	291	97	197	97	69	96	192	A
22	262	72	293	97	199	98	72	96	195	A
23	237	73	293	98	199	98	72	96	195	A
24	212	72	294	96	199	96	72	98	194	A
25	187	71	297	100	201	100	70	98	195	A
26	162	66	303	104	204	104	64	99	199	A

Harmonic constants for constituent S2 for deployment NWFC0407.

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	787	2	84	5	355	5	2	90	355	A
02	762	2	104	4	353	4	2	109	342	A
03	737	4	122	5	350	6	3	123	334	A
04	712	7	128	9	349	11	4	125	335	A
05	687	12	144	13	352	17	4	133	339	A
06	662	17	156	17	356	24	4	135	347	A
07	637	20	169	14	11	25	5	145	356	A
08	612	21	199	7	44	22	3	163	21	A
09	587	19	240	10	165	19	10	10	235	A
10	562	20	277	23	192	23	20	74	206	A
11	537	21	293	29	202	29	21	92	201	A
12	512	22	296	30	209	30	21	87	211	A
13	487	21	298	30	213	30	21	82	219	A
14	462	19	303	30	219	31	19	84	223	A
15	437	19	309	32	223	32	19	87	225	A
16	412	20	312	32	224	32	20	87	226	A
17	387	21	313	33	226	33	21	86	228	A
18	362	21	315	32	229	32	21	86	232	A
19	337	24	320	31	229	31	24	93	226	A
20	312	23	320	30	230	30	23	91	229	A
21	287	22	320	30	234	30	22	84	239	A
22	262	22	321	28	236	28	22	80	243	A
23	237	22	324	30	237	30	22	86	240	A
24	212	23	327	30	245	31	23	77	255	A
25	187	22	328	31	251	32	21	74	262	A
26	162	23	330	32	258	33	21	68	272	A

NWFC0407 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC0407.

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	787	1	55	4	207	4	1	110	210	C
02	762	2	36	3	213	4	0	117	213	C
03	737	2	54	3	219	4	0	123	223	C
04	712	4	58	5	255	7	1	125	250	A
05	687	5	85	8	283	10	1	120	278	A
06	662	14	96	12	294	18	3	140	284	A
07	637	20	102	12	290	24	1	149	284	A
08	612	19	114	9	284	21	1	156	293	C
09	587	16	141	3	211	16	3	4	142	C
10	562	11	164	8	132	13	3	35	153	A
11	537	11	188	12	140	15	7	50	160	A
12	512	12	212	16	144	17	10	63	161	A
13	487	11	227	17	151	17	11	74	161	A
14	462	10	235	16	156	17	10	79	163	A
15	437	10	234	17	162	17	9	75	170	A
16	412	11	242	18	162	18	11	81	167	A
17	387	11	252	18	166	18	11	86	168	A
18	362	12	258	19	165	19	12	93	163	A
19	337	14	265	20	166	20	13	101	159	A
20	312	15	264	19	173	19	15	92	171	A
21	287	15	267	17	181	17	14	79	190	A
22	262	12	271	19	183	19	12	88	185	A
23	237	13	283	18	183	18	13	104	173	A
24	212	13	279	17	191	17	13	86	194	A
25	187	10	284	17	190	17	10	94	188	A
26	162	13	294	17	193	17	13	107	180	A

Harmonic constants for constituent O1 for deployment NWFC0407.

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	787	15	4	13	165	20	3	140	176	C
02	762	17	5	15	171	22	3	139	179	C
03	737	19	6	17	176	26	2	137	181	C
04	712	22	11	21	181	30	3	137	186	C
05	687	26	14	24	186	35	3	137	190	C
06	662	30	10	29	187	42	1	136	189	C
07	637	33	11	32	192	46	0	136	192	A
08	612	30	12	30	191	42	1	135	191	C
09	587	27	15	25	191	36	1	137	193	C
10	562	22	24	21	193	30	3	137	199	C
11	537	19	29	19	189	27	5	135	199	C
12	512	19	29	19	189	26	5	135	199	C
13	487	18	30	18	190	25	5	134	200	C
14	462	17	30	17	188	23	4	135	199	C
15	437	16	29	17	183	23	5	132	194	C
16	412	15	26	17	180	22	5	130	191	C
17	387	14	26	18	182	23	5	127	191	C
18	362	13	26	18	180	22	5	125	189	C
19	337	12	26	17	178	20	5	125	187	C
20	312	12	31	17	178	21	6	124	188	C
21	287	13	31	18	181	21	5	124	191	C
22	262	12	27	16	182	20	4	127	191	C
23	237	14	34	18	185	22	5	126	195	C
24	212	14	26	17	188	22	3	128	195	C
25	187	15	22	16	191	22	2	132	196	C
26	162	11	31	12	185	16	4	133	197	C

NWFC0407 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC0407.

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	787	16	274	11	71	19	3	147	87	C
02	762	17	276	11	81	20	2	147	91	C
03	737	19	278	13	95	23	1	145	97	C
04	712	20	287	16	102	25	1	141	105	C
05	687	21	285	18	99	28	1	140	103	C
06	662	27	268	24	89	36	0	138	89	A
07	637	33	256	31	79	46	1	137	78	A
08	612	34	257	33	78	47	1	136	77	A
09	587	29	260	29	81	41	0	134	80	A
10	562	22	266	25	80	33	2	131	83	C
11	537	19	271	22	84	29	2	131	87	C
12	512	17	271	20	84	26	2	130	87	C
13	487	16	276	20	88	25	2	128	91	C
14	462	15	283	20	89	24	3	126	94	C
15	437	13	290	19	85	23	5	123	92	C
16	412	12	299	19	83	22	6	118	91	C
17	387	11	302	20	82	22	7	116	90	C
18	362	11	301	19	82	21	6	116	91	C
19	337	12	300	18	80	20	7	120	91	C
20	312	12	295	18	82	21	6	121	91	C
21	287	13	302	16	92	20	5	126	103	C
22	262	13	299	15	92	20	5	129	103	C
23	237	10	291	13	71	15	5	126	86	C
24	212	10	299	11	69	14	6	132	92	C
25	187	8	311	9	57	9	7	124	83	C
26	162	7	280	6	47	8	4	139	76	C

Deployment Id: Nwana0407

Latitude: 62°42.020'N

Longitude: 006°05.072'W

Echo sound depth: 294m

Bottom depth corr.: 293m

Time of deployment: 02/07 -2004 0330UTC

Time of recovery: 20/05 - 2005 0318UTC

ADCP:

Instrument no.: RDI ADCP 1279

Instrument frequency: 150kHz

Height above bottom: 1m

Depth: 292m (corr.)

Time of first data: 02/07 – 2004 0340UTC

Time of last data: 20/05 – 2005 0300UTC

Sample interval: 20 min

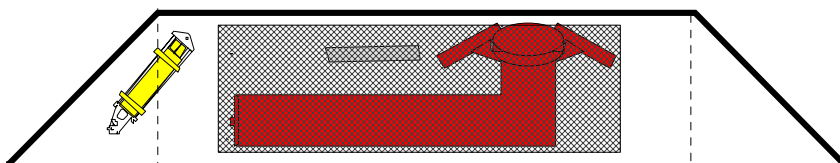
No. of ensembles: 23183

Pings per ens.: 1

Binlength: 10 m

Depth of first bin: 276m (corr.)

No. of bins: 25



Data: All data ok.

NWNA0407 ADCP 1279

Error statistics for deployment: NWNA0407 updated 2005/08/23

Surface distance invalid due to range limitation

Heading, pitch and roll not edited

Temperature edited by EM in Jun 2005

Velocity edited up to and including bin 25 by SE in Jul 2005

Intensity edited up to and including bin 26 by EM in Aug 2005

Total number of ensembles: 23183

Interval between ensembles: 20 min

Original number of bins: 30

Number of acceptable velocity bins: 25

Number of acceptable intensity bins: 25

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	Velocity % flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	5	1640	7	1285	143	19	3	0	0	0	0	0	0	0
2	2	1845	8	1408	174	18	5	3	0	0	0	0	0	0
3	0	1593	7	1262	128	21	3	0	0	0	0	0	0	0
4	0	1413	6	1112	117	18	2	1	0	0	0	0	0	0
5	1	1316	6	1033	111	13	4	0	1	0	0	0	0	0
6	1	1111	5	911	70	16	3	0	0	0	0	0	0	0
7	1	1159	5	956	75	11	2	0	2	0	0	0	0	0
8	0	1052	5	847	81	10	1	0	1	0	0	0	0	0
9	0	998	4	806	75	10	3	0	0	0	0	0	0	0
10	0	1026	4	814	83	14	1	0	0	0	0	0	0	0
11	0	1052	5	833	86	10	3	1	0	0	0	0	0	0
12	0	1020	4	731	100	10	8	4	1	0	0	0	0	0
13	0	1041	4	762	82	19	9	2	2	0	0	0	0	0
14	0	1119	5	765	90	28	8	4	3	1	0	0	0	0
15	1	1192	5	765	79	30	14	10	5	3	0	0	0	0
16	2	1398	6	793	102	35	14	7	15	4	2	0	0	0
17	0	1743	8	836	111	38	25	15	19	10	4	0	0	0
18	0	2251	10	952	153	58	24	11	29	17	6	2	0	0
19	4	2953	13	1065	208	66	25	19	46	24	8	6	0	0
20	1	4099	18	1317	281	93	41	23	39	27	17	15	0	0
21	1	5288	23	1450	402	140	59	37	70	30	16	16	4	4
22	0	6746	29	1661	416	188	90	39	85	50	23	20	7	7
23	1	8218	35	1641	526	213	103	47	94	50	21	29	18	18
24	1	9830	42	1595	563	259	111	91	153	71	20	24	23	23
25	1	11556	50	1501	569	290	146	97	155	54	27	32	33	33

NWNA0407 ADCP 1279

Deployment: NWNA0407 updated 2005/08/23
Instrument no.: 1279
Instrument freq.: 150
Latitude: 62 42.020 N
Longitude: 06 05.072 W
Bottom depth: 293
Instrument depth: 292
Center depth of first bin: 276
Bin length: 10
Number of bins: 25
Number of first ensemble: 117
Time of first ensemble: 2004 07 02 0340
Number of last ensemble: 23299
Time of last ensemble: 2005 05 20 03 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	276	17	199	124	98	929
2	266	27	210	127	102	920
3	256	37	217	128	105	931
4	246	47	224	132	107	939
5	236	57	227	138	109	943
6	226	67	230	142	111	952
7	216	77	231	147	112	950
8	206	87	232	151	112	955
9	196	97	233	155	112	957
10	186	107	234	159	112	956
11	176	117	235	162	112	955
12	166	127	236	166	111	956
13	156	137	237	169	111	955
14	146	147	239	171	111	952
15	136	157	241	174	111	949
16	126	167	243	176	111	940
17	116	177	246	177	112	925
18	106	187	249	179	112	903
19	96	197	253	181	112	873
20	86	207	259	184	112	823
21	76	217	265	186	113	772
22	66	227	274	187	113	709
23	56	237	285	189	114	646
24	46	247	298	191	113	576
25	36	257	310	191	114	502

NWNA0407 ADCP 1279

Deployment: NWNA0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 276| 731 399 173 61 19 4 1 0 0 0 0 0 0 0 0 0 0 0
2| 266| 745 421 194 77 29 9 2 0 0 0 0 0 0 0 0 0 0 0
3| 256| 765 445 214 88 34 12 3 0 0 0 0 0 0 0 0 0 0 0
4| 246| 783 468 232 95 39 13 4 1 0 0 0 0 0 0 0 0 0 0
5| 236| 790 477 244 103 41 14 4 1 0 0 0 0 0 0 0 0 0 0
6| 226| 795 488 254 111 44 16 4 1 0 0 0 0 0 0 0 0 0 0
7| 216| 793 492 258 117 46 16 4 1 0 0 0 0 0 0 0 0 0 0
8| 206| 800 492 259 121 48 17 4 1 0 0 0 0 0 0 0 0 0 0
9| 196| 799 494 266 124 51 17 4 1 0 0 0 0 0 0 0 0 0 0
10| 186| 795 495 270 126 51 17 4 1 0 0 0 0 0 0 0 0 0 0
11| 176| 794 499 271 129 54 17 4 1 0 0 0 0 0 0 0 0 0 0
12| 166| 797 499 276 131 56 19 4 1 0 0 0 0 0 0 0 0 0 0
13| 156| 800 504 279 134 57 19 4 1 0 0 0 0 0 0 0 0 0 0
14| 146| 795 504 280 137 59 20 5 1 0 0 0 0 0 0 0 0 0 0
15| 136| 795 507 283 141 62 21 6 2 1 0 0 0 0 0 0 0 0 0
16| 126| 791 505 286 144 63 23 7 2 1 0 0 0 0 0 0 0 0 0
17| 116| 779 505 284 147 65 24 7 2 1 0 0 0 0 0 0 0 0 0
18| 106| 765 500 285 148 69 26 8 3 1 1 0 0 0 0 0 0 0 0
19| 96| 743 495 282 149 69 26 9 4 1 0 0 0 0 0 0 0 0 0
20| 86| 709 478 276 147 69 27 10 4 2 1 1 0 0 0 0 0 0 0
21| 76| 672 460 267 143 70 29 12 5 2 1 1 0 0 0 0 0 0 0
22| 66| 625 436 260 139 69 30 13 7 3 2 1 0 0 0 0 0 0 0
23| 56| 575 412 254 140 70 34 16 9 5 2 1 1 0 0 0 0 0 0
24| 46| 521 380 241 138 72 35 18 10 6 4 2 1 1 1 0 0 0 0
25| 36| 456 346 225 132 71 36 19 10 5 3 1 1 0 0 0 0 0 0
-----

```

NWNA0407 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA0407.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	276	129	291	91	171	140	73	153	126	A
02	266	139	290	105	172	152	85	151	128	A
03	256	150	291	116	174	165	94	150	130	A
04	246	160	293	123	177	175	101	151	131	A
05	236	164	294	127	178	179	105	151	132	A
06	226	168	296	127	181	181	107	152	133	A
07	216	170	297	125	184	182	107	154	134	A
08	206	170	299	124	187	180	108	155	134	A
09	196	170	300	121	189	179	107	157	135	A
10	186	170	302	119	191	178	106	158	136	A
11	176	172	303	119	193	180	107	159	136	A
12	166	172	305	117	196	178	106	160	137	A
13	156	172	307	116	199	179	106	161	138	A
14	146	172	309	114	200	178	105	161	140	A
15	136	172	310	113	202	178	103	162	141	A
16	126	171	312	111	204	176	103	163	142	A
17	116	171	314	110	206	176	102	163	143	A
18	106	170	315	106	209	174	100	165	144	A
19	96	170	317	104	210	174	97	165	145	A
20	86	170	319	101	213	173	96	167	146	A
21	76	166	321	98	215	168	93	167	148	A
22	66	165	323	96	218	168	91	168	150	A
23	56	167	325	97	220	170	93	168	151	A
24	46	169	326	105	225	171	102	170	152	A
25	36	174	326	100	226	175	98	172	150	A

Harmonic constants for constituent S2 for deployment NWNA0407.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	276	48	335	34	220	51	28	155	170	A
02	266	51	332	38	222	54	34	155	168	A
03	256	51	328	43	223	54	39	152	169	A
04	246	55	329	45	221	58	40	151	170	A
05	236	58	332	47	220	63	41	150	172	A
06	226	61	332	49	220	66	41	151	171	A
07	216	62	333	49	219	68	41	150	172	A
08	206	63	335	48	220	68	40	152	173	A
09	196	63	338	47	221	68	39	151	175	A
10	186	63	339	46	223	68	38	152	175	A
11	176	63	341	45	225	68	38	154	176	A
12	166	64	344	43	229	68	37	156	178	A
13	156	63	347	42	230	67	35	157	179	A
14	146	63	350	41	234	67	35	158	182	A
15	136	64	351	39	237	67	34	161	181	A
16	126	64	354	37	239	67	32	162	182	A
17	116	63	356	37	243	65	33	163	185	A
18	106	64	357	35	245	65	32	164	185	A
19	96	63	359	34	252	64	32	168	185	A
20	86	63	359	34	255	63	33	170	184	A
21	76	60	360	33	261	60	32	173	183	A
22	66	61	2	34	261	62	33	171	187	A
23	56	59	4	35	266	59	35	173	188	A
24	46	63	3	36	262	63	35	171	188	A
25	36	63	2	37	267	63	37	175	185	A

NWNA0407 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA0407.

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	276	27	266	21	140	30	15	147	103	A
02	266	29	265	23	138	34	16	147	103	A
03	256	30	264	26	141	35	19	143	106	A
04	246	30	264	28	145	36	21	140	110	A
05	236	32	267	27	149	36	21	144	110	A
06	226	34	271	28	153	38	22	145	114	A
07	216	34	275	28	160	37	23	148	116	A
08	206	35	279	27	165	37	23	151	117	A
09	196	34	280	26	167	36	22	152	118	A
10	186	33	281	24	171	35	21	158	115	A
11	176	33	282	25	170	35	21	154	119	A
12	166	33	284	24	174	35	22	156	119	A
13	156	33	287	23	175	34	20	158	120	A
14	146	33	288	22	175	35	19	159	120	A
15	136	32	288	21	175	34	18	160	120	A
16	126	32	290	20	175	34	17	160	121	A
17	116	33	292	21	179	34	18	160	123	A
18	106	33	294	21	181	34	19	161	124	A
19	96	31	296	20	188	32	18	164	126	A
20	86	33	300	18	190	34	17	166	127	A
21	76	28	301	17	192	29	16	164	130	A
22	66	29	302	17	194	29	16	166	130	A
23	56	31	302	20	186	33	17	158	134	A
24	46	30	299	13	191	30	12	171	122	A
25	36	33	299	22	174	36	17	153	132	A

Harmonic constants for constituent O1 for deployment NWNA0407.

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	276	22	34	11	301	22	11	178	215	A
02	266	24	31	12	287	25	11	172	215	A
03	256	26	32	12	280	27	11	168	217	A
04	246	27	35	13	281	27	11	166	220	A
05	236	27	32	14	278	27	12	165	219	A
06	226	26	29	13	276	27	12	165	216	A
07	216	26	28	13	273	27	11	166	214	A
08	206	27	26	12	267	28	10	166	211	A
09	196	27	26	12	270	27	11	166	212	A
10	186	28	28	13	264	29	10	163	214	A
11	176	28	29	14	263	29	11	162	216	A
12	166	28	29	15	265	30	11	161	217	A
13	156	29	30	15	264	30	12	159	219	A
14	146	30	30	15	262	31	12	160	218	A
15	136	31	31	16	261	33	12	158	219	A
16	126	32	29	16	260	33	11	160	217	A
17	116	31	31	17	259	34	12	158	219	A
18	106	31	31	17	263	33	12	159	219	A
19	96	31	31	17	263	33	13	158	220	A
20	86	31	35	17	267	33	12	158	224	A
21	76	31	30	17	272	32	15	161	219	A
22	66	30	36	17	268	32	13	156	226	A
23	56	32	41	18	273	34	13	156	231	A
24	46	34	28	19	260	36	14	157	218	A
25	36	28	30	21	281	30	19	156	225	A

NWNA0407 ADCP 1279

Harmonic constants for constituent K1 for deployment NWNA0407.

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	276	33	269	18	189	33	18	8	264	A
02	266	36	276	22	185	36	22	179	97	A
03	256	39	284	23	179	40	22	167	112	A
04	246	40	284	23	173	41	21	165	111	A
05	236	39	279	21	174	40	20	170	105	A
06	226	38	277	19	169	39	18	168	103	A
07	216	37	275	18	170	37	17	171	99	A
08	206	37	273	17	169	37	16	172	97	A
09	196	36	273	17	171	36	16	173	96	A
10	186	36	274	18	170	36	17	171	98	A
11	176	36	274	18	174	36	17	174	97	A
12	166	35	275	18	171	35	17	170	100	A
13	156	35	273	19	171	35	19	171	98	A
14	146	35	271	19	168	35	18	171	96	A
15	136	36	268	18	168	36	18	173	92	A
16	126	35	265	19	170	36	18	176	87	A
17	116	35	264	19	171	35	19	178	85	A
18	106	35	263	18	174	35	18	1	263	A
19	96	35	265	19	177	35	19	1	265	A
20	86	31	265	18	183	31	18	7	261	A
21	76	33	267	19	191	33	18	12	260	A
22	66	31	271	18	195	31	18	11	265	A
23	56	30	267	22	192	31	21	20	253	A
24	46	28	273	21	199	29	19	21	259	A
25	36	24	275	23	199	26	21	41	241	A

Deployment Id: NWNB0407

Latitude: 62°55.282'N

Longitude: 006°04.905'W

Echo sounding depth: 1002m

Bottom depth corr.: 987m

Time of deployment: 02/07 - 2004 0636UTC

Time of recovery: 20/05 - 2005 0630UTC

ADCP:

Instrument no.: RDI ADCP 1577

Instrument frequency: 75kHz

Height above bottom: 254m (corr.)

Depth: 733m (corr.)

Time of first data: 02/07 - 2004 0700UTC

Time of last data: 20/05 - 2005 0600UTC

Sample interval: 20 min

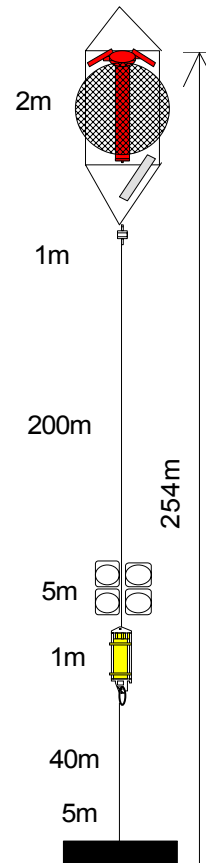
No. of ensembles: 23182

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 697m (corr.)

No. of bins: 25



Data: All data ok.

NWNB0407 ADCP 1577

Error statistics for deployment: NWNB0407 updated 2005/08/23

Surface distance edited
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 25 by SE in Jul 2005
 Intensity edited up to and including bin 25 by EM in Aug 2005
 Irregularities occur in, but especially after, bin 25

Total number of ensembles: 23182
 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: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	3	61	0	57	2	0	0	0	0	0	0	0	0
2	3	100	0	89	4	1	0	0	0	0	0	0	0
3	3	97	0	76	9	1	0	0	0	0	0	0	0
4	1	89	0	76	5	1	0	0	0	0	0	0	0
5	2	93	0	76	7	1	0	0	0	0	0	0	0
6	2	93	0	78	6	1	0	0	0	0	0	0	0
7	1	121	1	99	8	2	0	0	0	0	0	0	0
8	1	133	1	116	7	1	0	0	0	0	0	0	0
9	0	108	0	91	4	3	0	0	0	0	0	0	0
10	0	59	0	55	2	0	0	0	0	0	0	0	0
11	0	45	0	45	0	0	0	0	0	0	0	0	0
12	0	55	0	51	2	0	0	0	0	0	0	0	0
13	0	87	0	81	3	0	0	0	0	0	0	0	0
14	0	103	0	92	4	1	0	0	0	0	0	0	0
15	0	157	1	153	2	0	0	0	0	0	0	0	0
16	0	168	1	141	9	3	0	0	0	0	0	0	0
17	0	232	1	194	11	4	1	0	0	0	0	0	0
18	0	551	2	282	40	15	10	2	12	1	0	0	0
19	0	1687	7	420	99	47	21	12	49	16	7	1	0
20	0	3383	15	571	148	58	52	36	81	47	18	5	0
21	0	5490	24	669	171	97	56	41	124	74	33	15	6
22	0	7406	32	667	207	125	60	56	126	86	55	28	13
23	1	8573	37	694	206	123	89	42	108	77	60	47	18
24	1	9956	43	649	204	123	70	51	110	84	53	65	33
25	1	11928	51	596	178	102	67	48	117	81	48	68	50

NWNB0407 ADCP 1577

Deployment: NWNB0407 updated 2005/08/23
Instrument no.: 1577
Instrument freq.: 75
Latitude: 62 55.282 N
Longitude: 06 04.905 W
Bottom depth: 987
Instrument depth: 733
Center depth of first bin: 697
Bin length: 25
Number of bins: 25
Number of first ensemble: 127
Time of first ensemble: 2004 07 02 07 00
Number of last ensemble: 23308
Time of last ensemble: 2005 05 20 06 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	697	290	146	59	101	997
2	672	315	145	54	100	996
3	647	340	143	49	101	996
4	622	365	141	44	100	996
5	597	390	139	41	100	996
6	572	415	137	38	101	996
7	547	440	137	36	103	995
8	522	465	136	36	105	994
9	497	490	137	37	107	995
10	472	515	139	39	108	997
11	447	540	143	42	110	998
12	422	565	148	46	111	998
13	397	590	155	52	112	996
14	372	615	167	64	114	996
15	347	640	183	82	115	993
16	322	665	201	104	115	993
17	297	690	220	125	115	990
18	272	715	241	146	115	976
19	247	740	258	162	115	927
20	222	765	274	176	115	854
21	197	790	287	184	116	763
22	172	815	293	187	117	681
23	147	840	296	186	116	630
24	122	865	293	175	117	571
25	97	890	288	159	120	485

NWNB0407 ADCP 1577

Deployment: NWNB0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 697| 626 234 73 23 7 1 0 0 0 0 0 0 0 0 0 0 0 0
2| 672| 622 227 69 21 6 0 0 0 0 0 0 0 0 0 0 0 0 0
3| 647| 620 222 67 20 4 0 0 0 0 0 0 0 0 0 0 0 0 0
4| 622| 619 212 61 17 3 0 0 0 0 0 0 0 0 0 0 0 0 0
5| 597| 612 202 56 14 2 0 0 0 0 0 0 0 0 0 0 0 0 0
6| 572| 611 197 52 13 2 0 0 0 0 0 0 0 0 0 0 0 0 0
7| 547| 615 195 49 11 1 0 0 0 0 0 0 0 0 0 0 0 0 0
8| 522| 611 194 47 10 1 0 0 0 0 0 0 0 0 0 0 0 0 0
9| 497| 613 195 50 11 1 0 0 0 0 0 0 0 0 0 0 0 0 0
10| 472| 621 209 53 11 1 0 0 0 0 0 0 0 0 0 0 0 0 0
11| 447| 638 230 58 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0
12| 422| 658 246 70 11 1 0 0 0 0 0 0 0 0 0 0 0 0 0
13| 397| 685 267 84 19 2 0 0 0 0 0 0 0 0 0 0 0 0 0
14| 372| 720 308 104 27 3 0 0 0 0 0 0 0 0 0 0 0 0 0
15| 347| 762 368 141 42 8 0 0 0 0 0 0 0 0 0 0 0 0 0
16| 322| 797 437 188 66 16 2 0 0 0 0 0 0 0 0 0 0 0 0
17| 297| 817 492 239 99 30 6 1 0 0 0 0 0 0 0 0 0 0 0
18| 272| 837 540 291 135 50 13 3 1 0 0 0 0 0 0 0 0 0 0
19| 247| 807 552 317 160 69 20 5 1 0 0 0 0 0 0 0 0 0 0
20| 222| 751 536 324 180 85 29 7 2 0 0 0 0 0 0 0 0 0 0
21| 197| 675 497 316 182 91 36 11 3 1 0 0 0 0 0 0 0 0 0
22| 172| 606 447 284 173 92 38 13 5 2 0 0 0 0 0 0 0 0 0
23| 147| 560 413 263 160 88 40 16 7 2 0 0 0 0 0 0 0 0 0
24| 122| 504 367 233 141 78 36 16 9 3 1 0 0 0 0 0 0 0 0
25| 97| 429 299 190 115 64 30 15 8 3 1 1 0 0 0 0 0 0 0
-----

```

NWNB0407 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB0407.

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	697	78	268	41	136	84	29	158	96	A
02	672	80	269	42	139	85	30	159	97	A
03	647	82	271	41	143	86	31	161	98	A
04	622	83	273	39	149	87	31	163	99	A
05	597	84	275	38	154	87	31	165	101	A
06	572	86	278	37	161	88	32	167	103	A
07	547	88	280	37	169	90	34	170	104	A
08	522	91	283	38	179	92	36	173	106	A
09	497	93	285	39	185	93	38	175	107	A
10	472	93	288	39	192	94	38	177	109	A
11	447	96	290	39	200	96	39	0	290	A
12	422	98	294	41	213	99	40	4	292	A
13	397	101	301	44	228	102	41	9	297	A
14	372	101	308	49	243	103	43	14	302	A
15	347	100	314	53	255	105	43	19	305	A
16	322	103	318	59	261	109	46	21	308	A
17	297	108	321	64	262	114	52	22	311	A
18	272	112	324	71	264	120	58	23	313	A
19	247	115	328	76	266	123	63	24	315	A
20	222	120	329	81	266	128	67	25	315	A
21	197	122	329	85	266	131	71	26	315	A
22	172	120	330	83	268	129	68	26	316	A
23	147	118	329	85	271	130	66	29	314	A
24	122	117	334	85	271	126	70	27	318	A
25	97	113	332	84	274	125	64	30	316	A

Harmonic constants for constituent S2 for deployment NWNB0407.

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	697	34	303	21	185	36	17	159	134	A
02	672	34	304	20	187	35	17	160	134	A
03	647	33	307	19	189	35	16	161	136	A
04	622	32	309	18	189	34	15	160	138	A
05	597	32	311	17	191	33	14	162	138	A
06	572	32	311	16	199	33	14	167	137	A
07	547	32	314	15	207	33	14	170	139	A
08	522	33	320	14	225	33	14	178	141	A
09	497	35	328	16	245	35	16	4	326	A
10	472	36	336	18	261	36	17	10	331	A
11	447	34	344	17	277	35	15	14	338	A
12	422	31	348	17	293	33	13	21	340	A
13	397	31	350	16	298	33	12	20	343	A
14	372	32	352	16	298	34	12	19	345	A
15	347	34	358	17	307	35	12	20	351	A
16	322	36	5	23	313	40	17	25	354	A
17	297	38	7	25	311	41	19	27	354	A
18	272	39	7	26	310	42	20	27	353	A
19	247	35	5	26	315	40	18	33	349	A
20	222	34	8	28	320	41	18	37	350	A
21	197	38	14	28	321	43	20	31	359	A
22	172	35	11	28	326	41	17	37	354	A
23	147	32	2	31	324	43	15	44	344	A
24	122	36	1	33	317	46	18	41	342	A
25	97	41	356	29	312	47	17	31	344	A

NWNB0407 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB0407.

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	697	17	226	15	99	20	10	139	70	A
02	672	17	225	17	102	21	11	138	71	A
03	647	19	227	17	105	22	12	141	71	A
04	622	19	227	17	106	23	12	142	71	A
05	597	19	231	16	106	22	11	144	71	A
06	572	19	235	14	108	21	9	149	71	A
07	547	19	244	12	114	21	8	154	75	A
08	522	21	254	12	130	22	9	158	83	A
09	497	23	263	13	150	24	12	163	91	A
10	472	22	271	12	172	22	11	174	94	A
11	447	21	279	11	196	21	11	5	277	A
12	422	22	277	10	201	22	10	8	274	A
13	397	24	282	12	209	25	11	11	277	A
14	372	28	289	17	216	28	16	14	281	A
15	347	28	293	18	222	29	17	17	283	A
16	322	26	296	17	233	28	14	22	284	A
17	297	26	305	18	241	27	15	25	291	A
18	272	26	311	20	250	29	16	30	294	A
19	247	28	314	24	255	32	18	37	291	A
20	222	29	319	26	254	33	21	37	294	A
21	197	29	316	26	259	34	18	38	293	A
22	172	33	322	26	256	36	22	30	302	A
23	147	32	323	25	251	34	23	25	305	A
24	122	33	329	26	246	33	26	16	316	A
25	97	33	339	23	249	33	23	180	159	A

Harmonic constants for constituent O1 for deployment NWNB0407.

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	697	3	55	4	267	5	1	126	255	A
02	672	3	53	4	261	5	1	127	251	A
03	647	3	51	4	254	5	1	124	247	A
04	622	3	36	4	252	5	2	125	240	A
05	597	3	39	4	252	5	1	125	241	A
06	572	3	50	4	254	5	1	125	246	A
07	547	3	54	4	255	5	1	129	247	A
08	522	4	44	4	277	5	3	136	250	A
09	497	5	47	4	282	6	3	141	250	A
10	472	7	47	5	284	7	3	152	242	A
11	447	8	51	5	284	8	4	153	243	A
12	422	7	61	5	302	7	4	150	258	A
13	397	5	49	5	290	6	4	139	256	A
14	372	8	38	5	272	9	4	150	233	A
15	347	10	41	6	277	11	5	158	231	A
16	322	10	36	6	270	11	4	158	225	A
17	297	12	33	7	256	13	4	155	221	A
18	272	12	28	8	257	13	5	152	220	A
19	247	11	36	5	251	12	3	156	222	A
20	222	11	40	4	255	11	2	162	223	A
21	197	13	32	3	244	14	2	168	213	A
22	172	17	23	4	259	17	3	173	204	A
23	147	19	17	3	267	19	3	177	198	A
24	122	17	5	6	279	17	6	2	4	A
25	97	13	20	11	263	15	9	141	226	A

NWNB0407 ADCP 1577

Harmonic constants for constituent K1 for deployment NWNB0407.

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	697	3	275	4	131	4	1	121	121	A
02	672	3	288	4	136	5	1	128	125	A
03	647	4	303	4	142	5	1	134	133	A
04	622	4	294	4	152	5	2	133	134	A
05	597	3	284	4	154	5	2	126	136	A
06	572	3	271	4	159	5	3	111	147	A
07	547	4	273	5	157	5	3	117	141	A
08	522	4	284	5	167	5	3	128	142	A
09	497	4	277	4	169	5	4	135	133	A
10	472	4	274	5	170	5	4	128	138	A
11	447	5	280	6	154	7	3	122	137	A
12	422	7	278	7	144	9	4	131	124	A
13	397	10	277	7	134	12	4	146	109	A
14	372	11	260	7	126	12	4	154	90	A
15	347	15	251	7	125	15	5	162	78	A
16	322	15	253	9	132	16	7	158	83	A
17	297	15	255	9	137	16	7	159	85	A
18	272	16	264	10	146	17	8	157	96	A
19	247	13	273	10	150	15	8	149	110	A
20	222	6	275	9	167	9	6	112	152	A
21	197	5	84	6	169	6	5	78	159	C
22	172	18	63	7	205	18	4	162	239	C
23	147	22	70	7	207	22	5	166	247	C
24	122	23	51	12	187	24	8	158	224	C
25	97	12	79	8	173	12	8	175	256	C

Deployment Id: NWNE0407

Latitude: 62°47.510'N

Longitude: 006°05.352'W

Echo sounding depth: 449m

Bottom depth corr.: 455m

Time of deployment: 02/07 - 2004 0510UTC

Time of recovery: 20/05 - 2005 0442UTC

ADCP:

Instrument no.: RDI ADCP 1244

Instrument frequency: 150kHz

Height above bottom: 1m

Depth: 454m (corr.)

Time of first data: 02/07 - 2004 0520 UTC

Time of last data: 20/05 - 2005 0420 UTC

Sample interval: 20 min

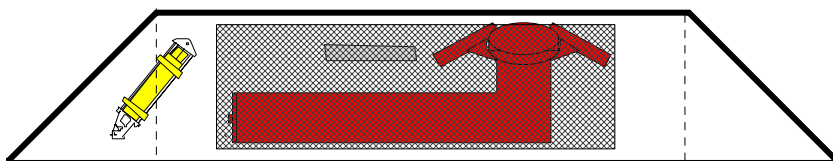
No. of ensembles: 23182

Pings per ens.: 1

Binlength: 25 m

Depth of first bin: 432 (corr.)

No. of bins: 15



Data: All data ok.

NWNE0407 ADCP 1244

Error statistics for deployment: NWNE0407 updated 2005/08/23

Surface distance edited

Heading, pitch and roll not edited

Temperature edited by EM in Jun 2005

Velocity edited up to and including bin 15 by SE in Jul 2005

Intensity edited up to and including bin 15 by EM in Aug 2005

Irregularities occur in, but especially after, bin 15

Total number of ensembles: 23182

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	8	2017	9	1554	168	32	5	1	1	0	0	0	0
2	7	1979	9	1563	150	33	3	1	0	0	0	0	0
3	3	2037	9	1606	162	30	3	1	0	0	0	0	0
4	1	1927	8	1560	146	25	0	0	0	0	0	0	0
5	0	1886	8	1551	136	21	0	0	0	0	0	0	0
6	1	1898	8	1560	139	20	0	0	0	0	0	0	0
7	1	1974	9	1605	147	25	0	0	0	0	0	0	0
8	0	2060	9	1636	177	22	1	0	0	0	0	0	0
9	2	2264	10	1705	206	33	7	4	0	0	0	0	0
10	6	2541	11	1736	234	59	16	5	7	1	0	0	0
11	5	3122	13	1727	280	49	29	12	30	14	3	0	0
12	1	3789	16	1719	287	68	30	19	30	23	17	3	0
13	6	4853	21	1737	334	97	45	18	44	27	31	10	0
14	5	6370	27	1767	405	152	64	42	47	29	36	33	0
15	8	8619	37	1717	478	199	81	54	94	56	31	57	5

NWNE0407 ADCP 1244

Deployment: NWNE0407 updated 2005/08/23
Instrument no.: 1244
Instrument freq.: 150
Latitude: 62 47.510 N
Longitude: 06 05.352 W
Bottom depth: 455
Instrument depth: 454
Center depth of first bin: 432
Bin length: 25
Number of bins: 15
Number of first ensemble: 122
Time of first ensemble: 2004 07 02 05 20
Number of last ensemble: 23303
Time of last ensemble: 2005 05 20 04 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	432	23	235	108	95	913
2	407	48	244	126	102	915
3	382	73	244	139	106	912
4	357	98	248	157	107	917
5	332	123	255	177	108	919
6	307	148	264	197	108	918
7	282	173	274	212	108	915
8	257	198	281	222	109	911
9	232	223	286	228	109	902
10	207	248	290	232	109	890
11	182	273	293	235	109	865
12	157	298	294	235	109	837
13	132	323	293	232	109	791
14	107	348	296	227	110	725
15	82	373	307	220	111	628

NWNE0407 ADCP 1244

Deployment: NWNE0407

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	
1 432	781	505	257	105	38	9	1	0	0	0	0	0	0	0	0	0	0	0	
2 407	781	518	281	131	50	15	3	1	0	0	0	0	0	0	0	0	0	0	
3 382	780	506	277	135	55	18	5	1	0	0	0	0	0	0	0	0	0	0	
4 357	783	508	285	145	68	26	6	1	0	0	0	0	0	0	0	0	0	0	
5 332	787	511	300	163	82	34	10	2	0	0	0	0	0	0	0	0	0	0	
6 307	785	527	326	183	94	43	14	4	1	0	0	0	0	0	0	0	0	0	
7 282	789	545	343	201	104	49	18	5	1	0	0	0	0	0	0	0	0	0	
8 257	790	554	355	212	114	56	21	7	2	0	0	0	0	0	0	0	0	0	
9 232	785	553	362	220	122	60	26	9	3	1	0	0	0	0	0	0	0	0	
10 207	773	547	362	223	127	66	29	12	3	1	1	0	0	0	0	0	0	0	
11 182	751	529	352	219	127	69	34	15	6	2	1	0	0	0	0	0	0	0	
12 157	724	514	337	213	126	69	35	17	7	3	1	1	0	0	0	0	0	0	
13 132	685	478	317	195	116	65	35	19	9	4	2	1	0	0	0	0	0	0	
14 107	631	446	290	176	106	63	36	19	11	6	3	1	1	1	0	0	0	0	
15 82	557	403	260	159	99	59	35	20	12	8	4	3	2	1	1	0	0	0	

```
-----
```

NWNE0407 ADCP 1244

Harmonic constants for constituent M2 for deployment NWNE0407.

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	432	130	250	118	135	149	93	141	97	A
02	407	147	258	120	145	161	101	148	100	A
03	382	151	273	111	162	160	98	156	109	A
04	357	149	287	101	179	154	93	161	119	A
05	332	149	299	94	194	152	89	165	128	A
06	307	147	307	88	205	149	85	170	133	A
07	282	144	311	83	213	145	82	174	134	A
08	257	141	313	80	219	141	80	177	135	A
09	232	140	316	77	224	140	77	179	136	A
10	207	137	316	73	226	137	73	180	136	A
11	182	135	317	70	228	135	70	0	317	A
12	157	135	318	67	231	135	67	2	317	A
13	132	130	319	65	235	130	64	4	317	A
14	107	128	320	64	239	129	63	6	317	A
15	82	124	323	69	250	126	64	13	316	A

Harmonic constants for constituent S2 for deployment NWNE0407.

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	432	64	301	51	195	67	47	154	140	A
02	407	64	303	49	195	68	44	155	140	A
03	382	58	313	41	203	61	37	157	148	A
04	357	54	331	35	217	56	30	159	162	A
05	332	52	341	30	229	54	27	163	169	A
06	307	51	347	28	243	52	27	169	173	A
07	282	49	348	27	253	50	27	176	170	A
08	257	48	349	26	256	48	26	178	170	A
09	232	46	350	25	259	46	25	179	171	A
10	207	44	352	23	266	44	23	3	350	A
11	182	44	354	21	269	44	21	3	352	A
12	157	41	351	19	276	41	18	9	347	A
13	132	36	349	18	281	37	16	13	344	A
14	107	31	354	18	290	32	16	19	345	A
15	82	38	10	24	298	39	22	17	360	A

NWNE0407 ADCP 1244

Harmonic constants for constituent N2 for deployment NWNE0407.

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	432	28	210	22	90	31	17	147	50	A
02	407	27	218	21	103	29	18	149	58	A
03	382	27	237	21	114	30	15	148	75	A
04	357	28	251	19	130	30	15	155	84	A
05	332	27	266	16	154	28	14	163	95	A
06	307	28	279	15	173	28	14	168	105	A
07	282	28	285	14	187	28	14	175	108	A
08	257	29	289	16	195	29	16	177	111	A
09	232	30	293	18	203	30	18	180	113	A
10	207	31	295	18	209	32	18	3	293	A
11	182	30	295	17	205	30	17	0	295	A
12	157	28	295	17	200	28	17	175	118	A
13	132	29	297	17	208	29	17	2	296	A
14	107	30	298	17	208	30	17	0	298	A
15	82	30	292	20	198	30	20	174	116	A

Harmonic constants for constituent O1 for deployment NWNE0407.

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	432	23	31	12	298	23	12	178	212	A
02	407	22	32	12	288	23	11	170	217	A
03	382	21	35	13	279	22	11	158	227	A
04	357	20	34	14	276	21	11	154	229	A
05	332	19	35	12	274	20	10	156	227	A
06	307	20	39	12	274	22	9	157	229	A
07	282	21	39	10	275	22	8	162	226	A
08	257	20	39	9	280	21	8	166	225	A
09	232	20	38	10	285	20	9	165	225	A
10	207	19	34	11	289	19	10	169	220	A
11	182	19	32	10	288	20	10	170	217	A
12	157	19	28	10	299	19	10	0	28	A
13	132	18	26	12	290	18	12	173	211	A
14	107	20	35	14	284	21	13	158	228	A
15	82	21	29	11	270	22	9	161	218	A

NWNE0407 ADCP 1244

Harmonic constants for constituent K1 for deployment NWNE0407.

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	432	22	259	15	185	22	14	17	249	A
02	407	27	265	14	163	28	14	172	89	A
03	382	31	258	16	142	32	14	165	85	A
04	357	32	254	15	141	32	14	167	80	A
05	332	27	255	13	149	28	12	170	80	A
06	307	24	261	12	160	24	11	173	84	A
07	282	23	270	11	164	23	10	170	95	A
08	257	22	273	9	171	22	9	174	95	A
09	232	21	270	10	172	21	9	175	92	A
10	207	20	274	9	184	20	9	0	273	A
11	182	18	277	9	186	18	9	179	98	A
12	157	14	282	12	196	14	11	11	273	A
13	132	10	306	13	201	14	9	111	186	A
14	107	7	2	13	204	15	3	118	199	A
15	82	12	2	14	207	18	4	129	197	A

Deployment Id: NWNG0407

Latitude: 63°05.840'N

Longitude: 006°05.200'W

Echo sounding depth: 1850 m

Bottom depth corr.: 1798m

Time of deployment: 02/07 - 2004 0755UTC

Time of recovery: 20/05 - 2005 0900UTC

ADCP:

Instrument no.: RDI ADCP 1292

Instrument frequency: 75kHz

Height above bottom: 1174 m

Depth: 624m (corr.)

Time of first data: 02/07 – 2004 0840UTC

Time of last data: 20/05 – 2005 0800UTC

Sample interval: 20 min

No. of ensembles: 23183

Pings per ens.: 1

Binlength: 25 m

Depth of first bin: 588m (corr.)

No. of bins: 22

Aanderaa:

Instrument no.: RCM9 721

Height above bottom: 12 m

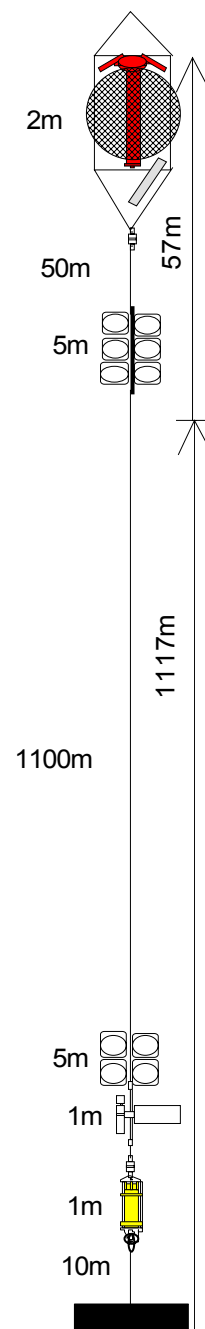
Depth: 1786m (corr.)

Time of first data: 02/07 – 2004 0830UTC

Time of last data: 20/05 – 2005 0730UTC

Sample interval: 60 min

No. of ensembles: 7728



Data: All data ok.

NWNG0407 ADCP 1292

Error statistics for deployment: NWNG0407 updated 2005/08/22

Surface distance edited
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 22 by SE in Jul 2005
 Intensity edited up to and including bin 22 by EM in Aug 2005

Total number of ensembles: 23183
 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	1	72	0	68	2	0	0	0	0	0	0	0	0	0
2	5	64	0	61	0	1	0	0	0	0	0	0	0	0
3	6	79	0	77	1	0	0	0	0	0	0	0	0	0
4	4	73	0	73	0	0	0	0	0	0	0	0	0	0
5	7	99	0	91	4	0	0	0	0	0	0	0	0	0
6	6	148	1	132	8	0	0	0	0	0	0	0	0	0
7	9	159	1	145	7	0	0	0	0	0	0	0	0	0
8	7	189	1	166	10	1	0	0	0	0	0	0	0	0
9	2	177	1	170	2	1	0	0	0	0	0	0	0	0
10	5	187	1	181	3	0	0	0	0	0	0	0	0	0
11	5	194	1	186	4	0	0	0	0	0	0	0	0	0
12	3	191	1	181	3	0	1	0	0	0	0	0	0	0
13	0	384	2	347	15	1	1	0	0	0	0	0	0	0
14	6	338	1	287	21	3	0	0	0	0	0	0	0	0
15	2	390	2	356	17	0	0	0	0	0	0	0	0	0
16	3	557	2	462	36	5	2	0	0	0	0	0	0	0
17	4	779	3	533	44	13	4	3	10	1	0	0	0	0
18	4	1345	6	665	97	26	17	10	13	7	3	0	0	0
19	4	2341	10	719	137	61	36	20	28	19	8	7	0	0
20	3	3657	16	790	187	79	39	22	61	32	21	14	0	0
21	2	5305	23	965	265	89	55	31	68	49	26	31	2	2
22	8	7725	33	1430	422	157	90	55	98	67	35	43	1	1

NWNG0407 ADCP 1292

Deployment: NWNG0407 updated 2005/08/22
Instrument no.: 1292
Instrument freq.: 75
Latitude: 63 05.840 N
Longitude: 06 05.200 W
Bottom depth: 1798
Instrument depth: 624
Center depth of first bin: 588
Bin length: 25
Number of bins: 22
Number of first ensemble: 132
Time of first ensemble: 2004 07 02 08 40
Number of last ensemble: 23314
Time of last ensemble: 2005 05 20 08 00
Time between ensembles (min.): 20
All directions have been corrected by adding: -12.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	588	1210	98	21	116	997
2	563	1235	100	21	116	997
3	538	1260	101	23	117	997
4	513	1285	103	23	118	997
5	488	1310	107	24	120	996
6	463	1335	111	27	123	994
7	438	1360	116	30	124	993
8	413	1385	123	35	124	992
9	388	1410	131	40	127	992
10	363	1435	142	46	129	992
11	338	1460	152	54	131	992
12	313	1485	168	65	134	992
13	288	1510	185	76	135	983
14	263	1535	201	85	135	985
15	238	1560	218	95	135	983
16	213	1585	235	104	134	976
17	188	1610	252	114	134	966
18	163	1635	267	123	134	942
19	138	1660	280	132	133	899
20	113	1685	292	138	133	842
21	88	1710	306	142	133	771
22	63	1735	322	142	135	667

NWNG0407 ADCP 1292

Deployment: NWNG0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 588| 446 39 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2| 563| 456 43 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3| 538| 465 47 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4| 513| 479 54 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5| 488| 500 67 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6| 463| 528 79 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7| 438| 557 100 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8| 413| 591 127 13 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9| 388| 626 164 22 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10| 363| 665 210 36 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11| 338| 693 259 59 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0
12| 313| 741 328 88 15 1 0 0 0 0 0 0 0 0 0 0 0 0 0
13| 288| 776 401 124 25 3 0 0 0 0 0 0 0 0 0 0 0 0 0
14| 263| 812 462 172 41 8 1 0 0 0 0 0 0 0 0 0 0 0 0
15| 238| 837 514 222 68 15 2 0 0 0 0 0 0 0 0 0 0 0 0
16| 213| 855 557 266 99 28 6 1 0 0 0 0 0 0 0 0 0 0 0
17| 188| 865 594 308 131 46 12 2 0 0 0 0 0 0 0 0 0 0 0
18| 163| 854 608 331 156 66 22 5 1 0 0 0 0 0 0 0 0 0 0
19| 138| 823 605 342 175 78 33 11 3 1 0 0 0 0 0 0 0 0 0
20| 113| 779 582 344 183 90 42 18 6 2 1 0 0 0 0 0 0 0 0
21| 88| 716 546 333 185 98 52 26 11 5 2 1 0 0 0 0 0 0 0
22| 63| 618 473 300 178 106 63 37 20 10 5 2 1 0 0 0 0 0 0
-----

```

NWNG0407 ADCP 1292

Harmonic constants for constituent M2 for deployment NWNG0407.

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	588	68	294	32	256	73	18	22	288	A
02	563	67	297	34	262	73	18	24	291	A
03	538	64	301	37	269	72	17	28	294	A
04	513	64	305	40	275	73	18	31	297	A
05	488	63	308	43	279	74	18	33	299	A
06	463	61	310	44	281	74	18	34	301	A
07	438	61	312	45	285	74	17	36	302	A
08	413	61	314	48	286	76	18	37	304	A
09	388	62	317	52	288	79	20	40	305	A
10	363	65	322	57	289	83	24	41	308	A
11	338	64	329	64	293	86	28	45	311	A
12	313	62	336	71	299	90	30	50	315	A
13	288	64	343	81	304	97	34	54	318	A
14	263	68	351	90	305	105	42	56	320	A
15	238	71	357	96	308	110	47	58	323	A
16	213	74	1	104	309	117	52	60	324	A
17	188	78	2	110	309	123	56	60	324	A
18	163	82	3	113	308	126	60	60	324	A
19	138	85	4	117	309	130	64	60	324	A
20	113	83	4	118	309	131	62	61	324	A
21	88	83	5	119	311	132	61	61	325	A
22	63	76	4	113	308	123	58	63	322	A

Harmonic constants for constituent S2 for deployment NWNG0407.

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	588	22	326	9	293	23	4	19	322	A
02	563	21	327	9	296	23	4	21	323	A
03	538	21	328	9	304	22	3	22	325	A
04	513	20	328	9	316	22	2	25	326	A
05	488	17	329	9	323	20	1	28	327	A
06	463	16	333	10	333	18	0	31	333	A
07	438	16	338	11	337	19	0	35	337	A
08	413	17	349	16	337	23	2	42	343	A
09	388	19	1	18	335	25	6	44	348	A
10	363	20	10	22	340	29	8	47	354	A
11	338	19	20	24	344	29	9	54	357	A
12	313	21	20	25	341	31	11	51	357	A
13	288	25	18	27	336	34	13	47	356	A
14	263	24	22	29	338	35	14	51	356	A
15	238	23	30	32	344	37	14	59	357	A
16	213	23	32	34	345	38	15	60	357	A
17	188	23	29	34	345	38	14	60	357	A
18	163	22	31	35	346	39	14	61	357	A
19	138	22	37	37	346	40	16	66	356	A
20	113	21	39	37	345	40	16	67	355	A
21	88	25	44	39	339	41	22	69	350	A
22	63	24	29	37	338	40	17	62	350	A

NWNG0407 ADCP 1292

Harmonic constants for constituent N2 for deployment NWNG0407.

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	588	15	282	10	246	17	5	31	272	A
02	563	15	279	9	243	17	5	27	271	A
03	538	17	278	9	237	18	5	23	271	A
04	513	19	275	10	229	20	7	23	267	A
05	488	22	277	13	220	23	10	22	267	A
06	463	25	280	16	218	27	13	22	269	A
07	438	26	289	19	226	28	16	26	274	A
08	413	25	298	20	242	29	15	34	279	A
09	388	24	308	24	253	30	16	44	281	A
10	363	22	320	24	263	29	16	50	287	A
11	338	21	324	24	270	29	15	51	292	A
12	313	23	330	28	272	32	17	55	293	A
13	288	23	340	28	281	32	17	55	302	A
14	263	22	349	26	286	29	17	56	308	A
15	238	22	354	26	291	29	17	56	313	A
16	213	21	360	27	296	30	18	59	316	A
17	188	24	4	29	297	31	20	58	318	A
18	163	28	4	31	292	34	24	56	318	A
19	138	29	2	33	292	36	24	57	316	A
20	113	31	358	33	288	37	26	51	317	A
21	88	30	359	32	290	36	25	50	319	A
22	63	27	355	32	293	36	21	55	316	A

Harmonic constants for constituent O1 for deployment NWNG0407.

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	588	6	54	2	311	6	2	176	235	A
02	563	5	51	1	308	5	1	177	232	A
03	538	5	55	1	323	5	1	179	235	A
04	513	5	57	1	310	5	1	175	238	A
05	488	4	52	2	308	5	2	174	234	A
06	463	5	54	2	311	5	2	175	236	A
07	438	5	60	2	320	5	2	176	241	A
08	413	5	62	1	311	5	1	175	243	A
09	388	5	60	2	322	5	2	178	240	A
10	363	5	60	2	311	5	2	174	242	A
11	338	6	58	2	305	6	2	173	239	A
12	313	7	55	2	285	7	1	171	237	A
13	288	6	45	2	281	6	1	172	226	A
14	263	7	42	2	320	7	2	2	42	A
15	238	8	48	2	320	8	2	1	48	A
16	213	8	58	3	323	8	3	177	239	A
17	188	8	62	4	329	8	4	178	243	A
18	163	8	68	2	326	8	2	177	248	A
19	138	10	75	2	1	10	2	4	74	A
20	113	11	68	3	40	12	1	13	66	A
21	88	10	68	3	24	10	2	13	65	A
22	63	8	47	2	59	8	0	14	48	C

NWNG0407 ADCP 1292

Harmonic constants for constituent K1 for deployment NWNG0407.

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	588	4	286	2	184	4	2	171	111	A
02	563	4	293	2	181	4	2	160	125	A
03	538	4	289	3	178	4	2	162	119	A
04	513	4	285	3	167	5	2	156	118	A
05	488	4	280	3	170	5	3	155	116	A
06	463	5	287	3	171	5	2	160	117	A
07	438	5	288	3	167	5	2	159	117	A
08	413	5	291	2	177	5	2	167	117	A
09	388	6	290	2	187	6	2	175	111	A
10	363	7	290	2	213	7	2	4	288	A
11	338	6	274	2	176	6	2	177	95	A
12	313	7	260	3	157	7	3	172	84	A
13	288	8	257	4	166	8	4	179	77	A
14	263	7	266	4	176	7	4	180	86	A
15	238	8	279	5	183	8	5	174	103	A
16	213	9	289	5	178	9	5	165	116	A
17	188	9	285	4	173	9	4	168	110	A
18	163	8	290	6	168	8	4	151	126	A
19	138	7	306	7	166	10	3	136	146	A
20	113	7	292	6	154	8	3	138	131	A
21	88	7	300	4	162	7	2	152	130	A
22	63	4	0	4	214	6	2	140	195	A

NWNG0407 Aanderaa 721

Deployment: NWNG0407 analyzed from beginning to end
 Instrument no.: 721
 Instrument type: Aanderaa
 Latitude: 63 05.840 N
 Longitude: 06 05.200 W
 Bottom depth: 1798
 Instrument depth: 1786
 Number of records: 7728
 Time of first record: 2004 07 02 08 30
 Time of last record : 2005 05 20 07 30
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	7728	0
Column 8 : Speed	7728	0
Column 9 : Direct	7728	0

Comments

Residual current: 32 mm/sec towards: 161 degrees

TIDAL ANALYSIS

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

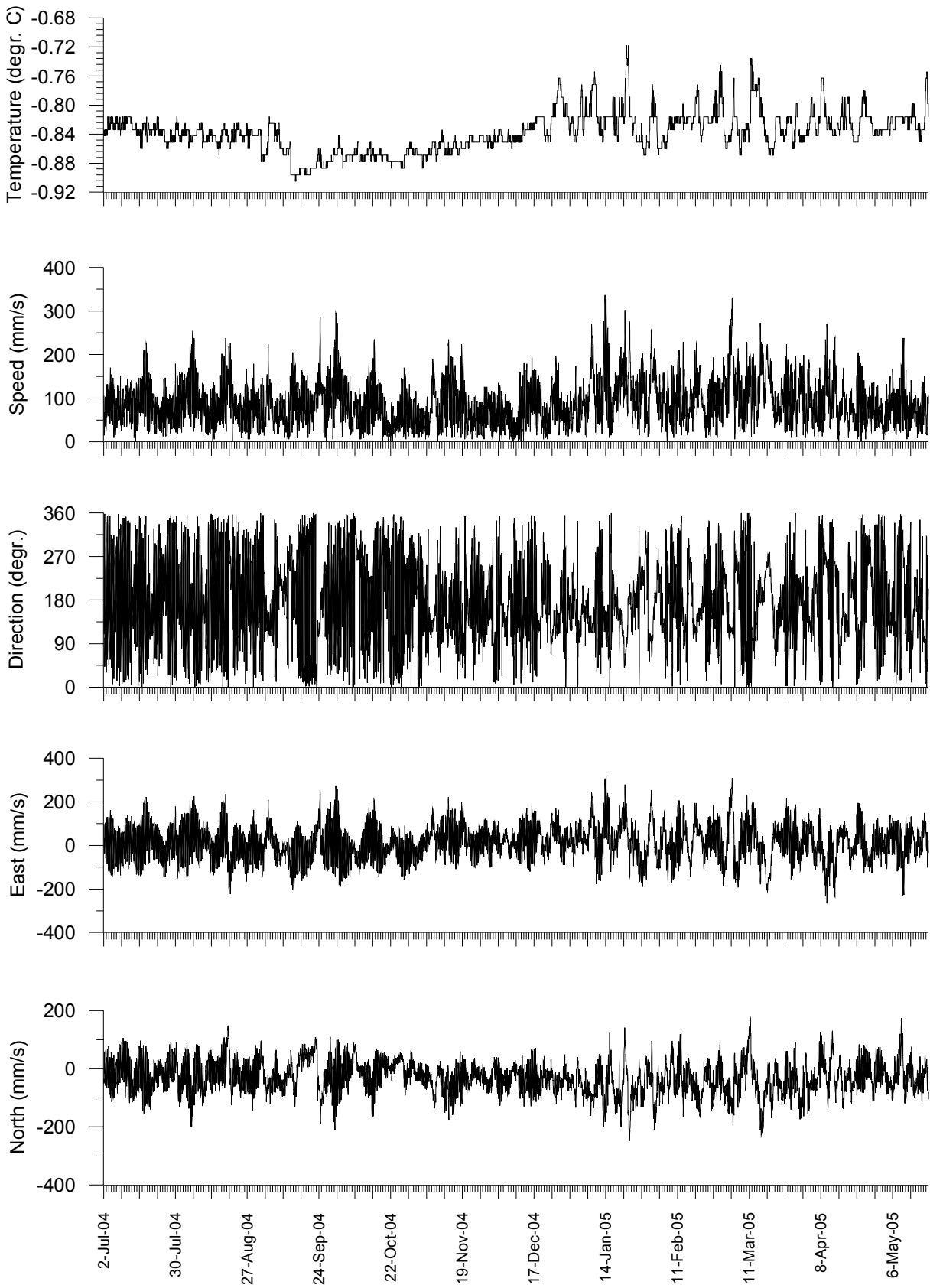
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	5	8	6	47	7	3	49	30	C
MSF	.00282193	6	264	6	55	9	2	137	71	C
Q1	.03721850	3	32	0	52	3	0	8	33	C
O1	.03873065	4	62	1	288	5	1	172	243	A
NO1	.04026859	1	77	0	188	1	0	160	245	C
P1	.04155259	1	335	1	176	2	0	139	164	A
K1	.04178075	3	290	2	209	3	2	6	287	A
N2	.07899925	14	207	10	76	16	7	150	40	A
M2	.08051140	65	256	24	145	66	22	172	79	A
L2	.08202355	2	39	3	330	3	2	69	342	A
S2	.08333334	26	297	11	210	26	11	1	296	A
K2	.08356149	5	294	1	113	5	0	171	114	C
MK3	.12229210	1	67	1	335	1	1	92	334	A
M4	.16102280	1	121	1	345	2	0	109	339	A
MS4	.16384470	0	208	1	9	1	0	106	10	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)

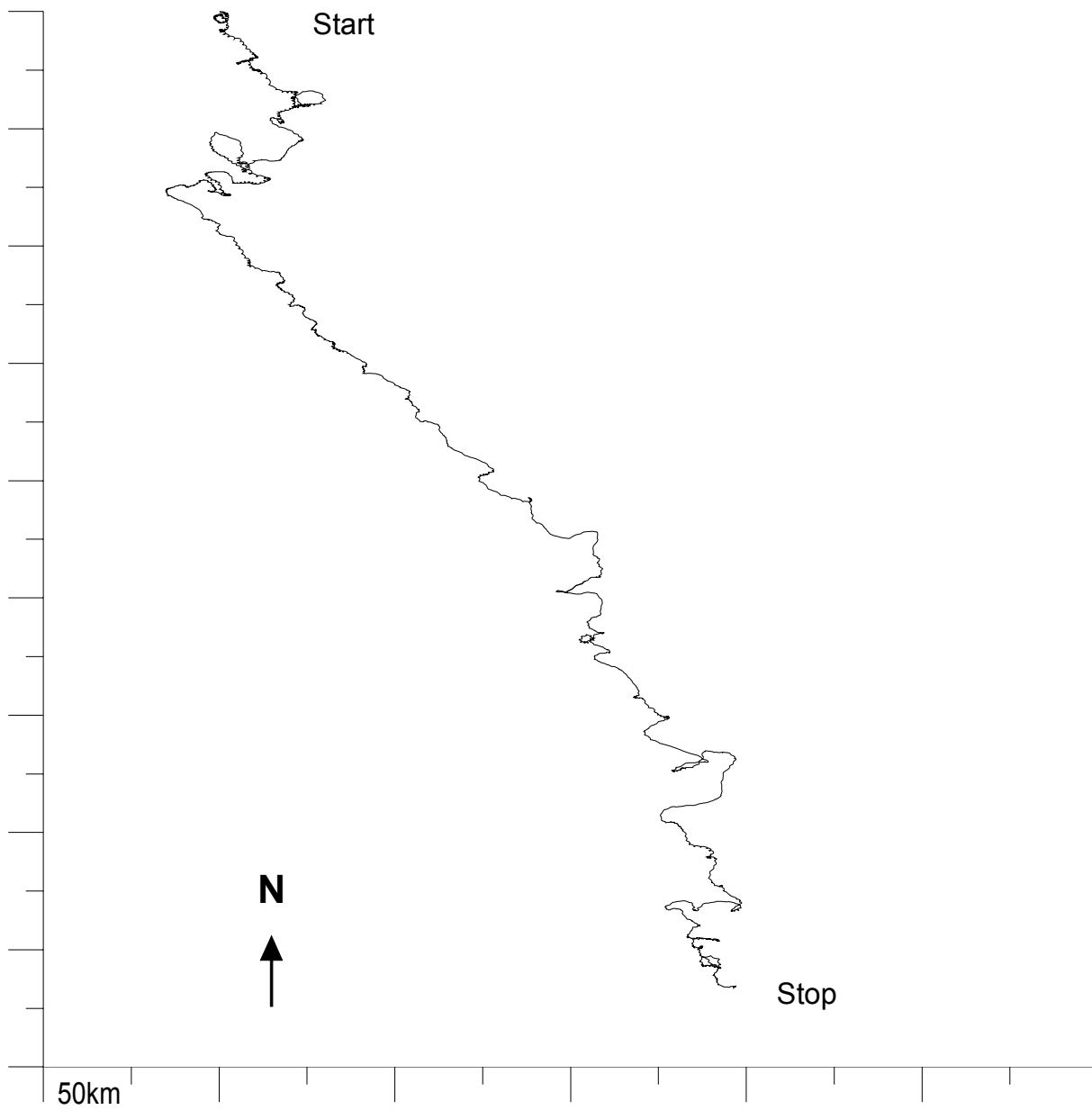
Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	15	14	21	16	25	22	27	20	20	19	15	11	226	226
50 - 100	12	17	27	52	59	53	47	43	35	32	24	15	416	642
100 - 150	3	6	14	43	45	26	21	24	31	21	8	3	244	886
150 - 200	0	2	7	23	18	7	5	7	11	5	1	1	85	971
200 - 300	0	0.26	1	10	6	2	1	1	4	1	0.26	0.13	28	999
300 - 400	0	0	0.13	1	0.13	0	0	0	0	0	0	0	1	1000
Total (ppt)	30	40	70	144	153	110	101	95	100	78	48	30		
Rel.flux (ppt)	19	32	66	182	171	105	90	92	109	75	38	21		
Avg.spd (mm/s)	57	72	85	114	101	87	81	87	99	86	72	64		
Max.spd (mm/s)	144	240	302	337	311	229	276	273	270	238	220	202		

NWNG0407 Aanderaa 721



NWNG0407 Aanderaa 721

Progressive vector diagram



Deployment Id: NWSB0407

Latitude: 60°47.000'N

Longitude: 005°18.262'W

Echo sounding depth: 795m

Bottom depth corr.: 786m

Time of deployment: 03/07 - 2004 2130UTC

Time of recovery: 22/05 - 2005 1500UTC

ADCP:

Instrument no.: RDI ADCP 1644

Instrument frequency: 75kHz

Height above bottom: 108m

Depth: 678m (corr.)

Time of first data: 03/07 - 2004 2200UTC

Time of last data: 22/05 - 2005 1440UTC

Sample interval: 20 min

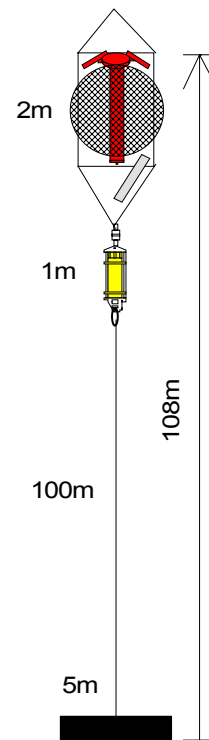
No. of ensembles: 23235

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 642 (corr.)

No. of bins: 23



Data: All data ok.

NWSB0407 ADCP 1644

Error statistics for deployment: NWSB0407 updated 2005/09/29

Surface distance edited
 Heading, pitch and roll not edited
 Temperature edited by EM in Jun 2005
 Velocity edited up to and including bin 23 by SE in Sep 2005
 Intensity edited up to and including bin 23 by EM in Sep 2005
 Irregularities occur in, but especially after, bin 23

Total number of ensembles: 23235
 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	1	37	0	37	0	0	0	0	0	0	0	0	0
2	3	1	0	1	0	0	0	0	0	0	0	0	0
3	1	27	0	27	0	0	0	0	0	0	0	0	0
4	0	3	0	3	0	0	0	0	0	0	0	0	0
5	0	33	0	33	0	0	0	0	0	0	0	0	0
6	0	27	0	25	1	0	0	0	0	0	0	0	0
7	0	32	0	30	1	0	0	0	0	0	0	0	0
8	0	46	0	42	2	0	0	0	0	0	0	0	0
9	0	37	0	37	0	0	0	0	0	0	0	0	0
10	0	54	0	54	0	0	0	0	0	0	0	0	0
11	1	58	0	58	0	0	0	0	0	0	0	0	0
12	0	84	0	82	1	0	0	0	0	0	0	0	0
13	0	69	0	67	1	0	0	0	0	0	0	0	0
14	0	96	0	90	3	0	0	0	0	0	0	0	0
15	0	174	1	172	1	0	0	0	0	0	0	0	0
16	0	426	2	285	24	5	7	0	6	1	0	0	0
17	0	696	3	297	40	25	13	7	12	4	0	0	0
18	0	1844	8	482	112	34	22	16	32	26	10	0	0
19	0	3869	17	564	148	55	51	29	39	49	43	8	1
20	0	5958	26	586	165	78	56	32	64	67	59	32	4
21	2	7782	33	649	208	94	78	45	78	61	52	74	3
22	1	9220	40	696	226	140	71	43	100	69	50	84	12
23	3	11070	48	804	250	127	92	43	102	87	35	91	29

NWSB0407 ADCP 1644

Deployment: NWSB0407 updated 2005/09/29
Instrument no.: 1644
Instrument freq.: 75
Latitude: 60 47.000 N
Longitude: 05 18.262 W
Bottom depth: 786
Instrument depth: 678
Center depth of first bin: 642
Bin length: 25
Number of bins: 23
Number of first ensemble: 244
Time of first ensemble: 2004 07 03 22 00
Number of last ensemble: 23478
Time of last ensemble: 2005 05 22 14 40
Time between ensembles (min.): 20
All directions have been corrected by adding: -11.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	642	144	205	51	191	998
2	617	169	201	49	190	1000
3	592	194	197	48	190	999
4	567	219	194	46	189	1000
5	542	244	193	44	188	999
6	517	269	193	43	187	999
7	492	294	193	40	187	999
8	467	319	193	37	188	998
9	442	344	193	34	186	998
10	417	369	193	31	184	998
11	392	394	196	28	175	998
12	367	419	201	27	168	996
13	342	444	208	28	166	997
14	317	469	216	26	164	996
15	292	494	222	22	158	993
16	267	519	228	19	150	982
17	242	544	234	19	149	970
18	217	569	238	18	146	921
19	192	594	240	19	139	833
20	167	619	245	18	117	744
21	142	644	252	23	85	665
22	117	669	262	32	71	603
23	92	694	272	48	62	524

NWSB0407 ADCP 1644

Deployment: NWSB0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 642| 827 477 194 48 6 0 0 0 0 0 0 0 0 0 0 0 0 0
2| 617| 823 463 184 42 5 0 0 0 0 0 0 0 0 0 0 0 0 0
3| 592| 811 451 170 36 3 0 0 0 0 0 0 0 0 0 0 0 0 0
4| 567| 803 440 163 33 3 0 0 0 0 0 0 0 0 0 0 0 0 0
5| 542| 795 437 163 33 3 0 0 0 0 0 0 0 0 0 0 0 0 0
6| 517| 793 433 168 37 4 0 0 0 0 0 0 0 0 0 0 0 0 0
7| 492| 790 427 169 40 5 0 0 0 0 0 0 0 0 0 0 0 0 0
8| 467| 794 427 170 39 6 0 0 0 0 0 0 0 0 0 0 0 0 0
9| 442| 792 426 165 43 7 0 0 0 0 0 0 0 0 0 0 0 0 0
10| 417| 792 418 165 46 9 2 0 0 0 0 0 0 0 0 0 0 0 0
11| 392| 792 424 170 51 13 3 1 0 0 0 0 0 0 0 0 0 0 0
12| 367| 801 442 181 58 16 5 2 0 0 0 0 0 0 0 0 0 0 0
13| 342| 819 470 202 69 18 7 2 0 0 0 0 0 0 0 0 0 0 0
14| 317| 827 497 222 81 25 8 3 1 0 0 0 0 0 0 0 0 0 0
15| 292| 834 508 239 91 31 9 3 1 0 0 0 0 0 0 0 0 0 0
16| 267| 831 514 256 103 35 11 4 1 0 0 0 0 0 0 0 0 0 0
17| 242| 830 520 266 114 42 14 5 2 0 0 0 0 0 0 0 0 0 0
18| 217| 793 501 260 114 45 14 5 2 0 0 0 0 0 0 0 0 0 0
19| 192| 722 458 238 107 45 13 4 2 0 0 0 0 0 0 0 0 0 0
20| 167| 647 419 222 104 45 14 3 1 0 0 0 0 0 0 0 0 0 0
21| 142| 584 388 209 100 45 17 4 1 0 0 0 0 0 0 0 0 0 0
22| 117| 534 366 206 103 47 17 6 1 0 0 0 0 0 0 0 0 0 0
23| 92| 466 333 193 101 45 17 6 2 0 0 0 0 0 0 0 0 0 0
-----

```

NWSB0407 ADCP 1644

Harmonic constants for constituent M2 for deployment NWSB0407.

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	642	230	246	113	204	247	71	22	240	A
02	617	225	248	115	208	243	67	23	241	A
03	592	218	249	115	212	239	63	25	242	A
04	567	212	251	118	217	235	59	27	244	A
05	542	208	253	124	221	235	57	29	245	A
06	517	203	255	129	225	234	55	31	247	A
07	492	197	257	134	230	233	51	33	249	A
08	467	189	259	138	235	230	47	35	251	A
09	442	180	260	140	239	225	39	37	252	A
10	417	168	260	138	245	216	28	39	254	A
11	392	155	261	138	250	207	20	42	256	A
12	367	144	262	139	254	200	14	44	259	A
13	342	136	265	145	258	198	12	47	261	A
14	317	129	267	151	261	199	10	50	264	A
15	292	123	269	157	264	200	9	52	266	A
16	267	120	271	163	264	202	12	54	267	A
17	242	116	273	166	265	202	14	55	268	A
18	217	115	274	168	266	203	14	56	268	A
19	192	111	275	171	267	203	14	57	269	A
20	167	112	278	175	266	206	20	58	269	A
21	142	107	279	176	267	205	20	59	270	A
22	117	109	280	174	266	204	23	58	270	A
23	92	105	282	171	267	200	23	59	271	A

Harmonic constants for constituent S2 for deployment NWSB0407.

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	642	82	288	48	251	92	26	27	280	A
02	617	79	287	46	254	89	23	27	280	A
03	592	76	287	44	256	86	21	28	280	A
04	567	74	288	43	259	83	18	29	281	A
05	542	71	289	43	265	81	15	30	283	A
06	517	70	291	45	270	82	14	32	285	A
07	492	68	294	48	274	83	14	35	287	A
08	467	65	295	49	278	81	11	37	289	A
09	442	60	296	49	283	77	9	39	291	A
10	417	55	299	50	289	75	7	42	295	A
11	392	51	300	50	294	72	4	44	297	A
12	367	47	297	50	297	69	0	47	297	A
13	342	41	295	51	304	65	5	51	301	C
14	317	39	297	55	306	67	5	54	303	C
15	292	40	299	57	308	69	5	55	305	C
16	267	40	303	58	305	71	1	55	304	C
17	242	41	304	58	302	71	2	54	303	A
18	217	42	306	58	303	71	2	54	304	A
19	192	46	308	59	303	75	3	52	305	A
20	167	47	310	62	304	78	4	53	306	A
21	142	45	308	58	303	73	3	52	305	A
22	117	44	299	55	298	70	1	51	298	A
23	92	41	292	48	300	63	4	50	296	C

NWSB0407 ADCP 1644

Harmonic constants for constituent N2 for deployment NWSB0407.

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	642	59	212	22	142	60	21	9	209	A
02	617	56	215	22	152	57	19	11	211	A
03	592	53	216	21	160	55	17	14	212	A
04	567	52	218	22	170	54	15	17	213	A
05	542	52	222	24	176	55	16	19	216	A
06	517	53	225	25	180	56	17	20	219	A
07	492	52	227	27	186	56	16	23	220	A
08	467	48	229	27	194	53	14	27	221	A
09	442	41	232	26	206	47	10	31	225	A
10	417	37	236	28	217	46	7	37	229	A
11	392	36	244	32	222	47	9	41	234	A
12	367	35	248	34	222	48	11	44	235	A
13	342	31	248	34	233	46	6	47	240	A
14	317	26	253	34	241	43	4	52	245	A
15	292	25	264	38	243	45	8	58	249	A
16	267	25	270	43	247	49	9	61	252	A
17	242	26	279	47	250	52	11	63	256	A
18	217	26	287	48	250	53	15	65	257	A
19	192	26	300	50	254	54	18	67	262	A
20	167	28	308	52	253	55	21	69	262	A
21	142	25	308	54	256	57	19	72	262	A
22	117	24	302	53	258	56	16	70	263	A
23	92	21	290	49	261	52	9	69	265	A

Harmonic constants for constituent O1 for deployment NWSB0407.

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	642	25	347	14	32	28	9	25	356	C
02	617	25	347	14	32	27	9	25	356	C
03	592	25	347	14	32	27	9	25	356	C
04	567	26	347	14	31	28	9	24	355	C
05	542	25	347	14	29	27	9	24	355	C
06	517	25	344	14	33	27	10	24	354	C
07	492	24	343	14	36	26	10	23	353	C
08	467	23	342	13	33	24	9	22	351	C
09	442	21	341	12	37	23	9	20	349	C
10	417	21	339	12	41	22	10	18	347	C
11	392	22	339	10	38	23	8	15	344	C
12	367	21	340	8	38	21	7	13	344	C
13	342	20	341	8	39	21	6	12	345	C
14	317	20	340	7	34	20	6	13	344	C
15	292	18	336	6	39	18	6	10	338	C
16	267	19	333	4	44	19	4	5	334	C
17	242	20	333	4	38	20	4	5	334	C
18	217	20	333	10	18	21	6	21	340	C
19	192	18	333	13	11	21	7	34	345	C
20	167	18	344	16	359	24	3	43	351	C
21	142	15	348	18	354	23	1	51	352	C
22	117	12	338	15	352	20	2	51	347	C
23	92	16	321	14	352	21	6	41	334	C

NWSB0407 ADCP 1644

Harmonic constants for constituent K1 for deployment NWSB0407.

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	642	18	204	7	264	19	6	11	207	C
02	617	18	203	7	260	19	6	12	207	C
03	592	19	204	7	250	19	5	16	209	C
04	567	19	203	7	252	20	5	16	207	C
05	542	17	202	8	253	18	6	17	207	C
06	517	16	202	8	253	17	6	18	208	C
07	492	16	199	8	260	16	7	17	207	C
08	467	16	194	7	256	16	6	15	200	C
09	442	15	187	5	259	15	5	7	189	C
10	417	13	182	3	277	13	3	179	1	C
11	392	12	188	4	250	12	3	10	191	C
12	367	12	182	5	219	12	3	20	187	C
13	342	10	164	7	198	12	4	33	174	C
14	317	11	154	11	196	14	5	44	174	C
15	292	10	164	10	195	14	4	46	180	C
16	267	11	168	8	184	14	2	36	173	C
17	242	14	163	5	162	15	0	20	163	A
18	217	13	164	2	293	13	1	176	344	C
19	192	12	173	10	313	15	5	144	339	C
20	167	9	183	14	308	16	7	116	320	C
21	142	9	180	18	314	20	6	111	321	C
22	117	12	200	20	313	21	11	108	322	C
23	92	17	201	13	307	17	12	157	5	C

Deployment Id: NWSC0407

Latitude: 60°33.958'N

Longitude: 004°45.775'W

Echo sounding depth: 1083m

Bottom depth corr.: 1068m

Time of deployment: 04/07 - 2004 0012UTC

Time of recovery: 22/05 - 2005 1157UTC

ADCP:

Instrument no.: RDI ADCP 1245

Instrument frequency: 75kHz

Height above bottom: 419m (corr.)

Depth: 649m (corr.)

Time of first data: 04/07 - 2004 0100UTC

Time of last data: 22/05 - 2005 1140UTC

Sample interval: 20 min

No. of ensembles: 23217

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 613 m (corr.)

No. of bins: 22

Aanderaa:

Instrument no.: RCM9 718

Height above bottom: 312m

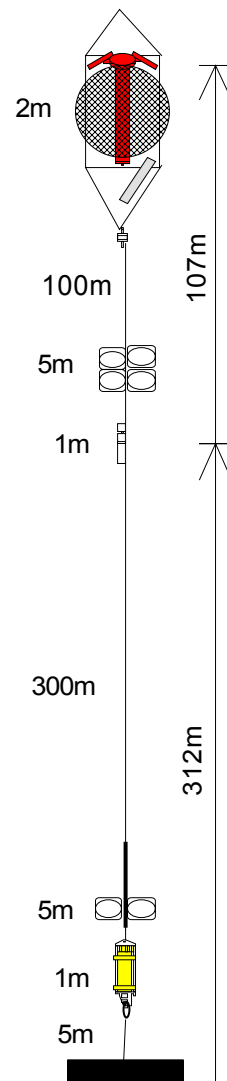
Depth: 756m (corr.)

Time of first data: 04/07 - 2004 0030 UTC

Time of last data: 22/05 - 2005 1030 UTC

Sample interval: 60min

No. of records: 7739



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

NWSC0407 ADCP 1245

Error statistics for deployment: NWSC0407 updated 2005/09/29

Surface distance edited

Heading, pitch and roll not edited

Temperature edited by EM in Jun 2005

Velocity edited up to and including bin 22 by SE in Sep 2005

Intensity edited up to and including bin 22 by EM in Sep 2005

Irregularities occur in, but especially after, bin 22

Total number of ensembles: 23217

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	82	0	80	1	0	0	0	0	0	0	0	0	0
2	0	89	0	85	2	0	0	0	0	0	0	0	0	0
3	1	103	0	93	5	0	0	0	0	0	0	0	0	0
4	1	90	0	84	3	0	0	0	0	0	0	0	0	0
5	0	108	0	95	5	1	0	0	0	0	0	0	0	0
6	0	177	1	136	9	4	1	0	1	0	0	0	0	0
7	0	196	1	142	8	0	1	1	2	1	0	0	0	0
8	0	259	1	176	20	4	1	1	3	0	0	0	0	0
9	0	363	2	251	29	4	5	1	1	1	0	0	0	0
10	0	444	2	274	39	15	3	1	4	0	0	0	0	0
11	0	359	2	233	27	8	6	1	3	0	0	0	0	0
12	0	351	2	209	26	10	5	3	3	0	0	0	0	0
13	0	407	2	253	23	11	1	6	4	1	0	0	0	0
14	0	455	2	285	26	13	4	4	3	2	0	0	0	0
15	0	555	2	350	37	16	7	4	3	1	0	0	0	0
16	0	699	3	421	60	20	3	3	8	1	0	0	0	0
17	2	940	4	450	80	19	9	5	21	4	0	0	0	0
18	1	1867	8	584	93	36	18	11	32	20	9	3	0	0
19	1	2968	13	594	129	46	20	15	32	20	29	16	0	0
20	0	4083	18	617	161	42	36	10	41	32	30	34	0	0
21	2	4922	21	734	196	76	50	24	52	30	17	35	6	6
22	0	6012	26	1107	310	116	71	46	84	59	18	24	5	5

NWSC0407 ADCP 1245

Deployment: NWSC0407 updated 2005/09/29
Instrument no.: 1245
Instrument freq.: 75
Latitude: 60 33.958 N
Longitude: 04 45.775 W
Bottom depth: 1068
Instrument depth: 649
Center depth of first bin: 613
Bin length: 25
Number of bins: 22
Number of first ensemble: 253
Time of first ensemble: 2004 07 04 01 00
Number of last ensemble: 23469
Time of last ensemble: 2005 05 22 11 40
Time between ensembles (min.): 20
All directions have been corrected by adding: -11.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	613	455	178	71	218	996
2	588	480	178	68	216	996
3	563	505	179	65	215	996
4	538	530	180	60	213	996
5	513	555	183	53	210	995
6	488	580	187	45	203	992
7	463	605	192	39	193	992
8	438	630	198	34	179	989
9	413	655	205	30	161	984
10	388	680	214	30	145	981
11	363	705	222	30	127	985
12	338	730	230	29	110	985
13	313	755	238	30	97	982
14	288	780	245	33	86	980
15	263	805	250	36	83	976
16	238	830	255	37	80	970
17	213	855	260	42	79	960
18	188	880	267	50	74	920
19	163	905	275	57	71	872
20	138	930	283	65	70	824
21	113	955	292	69	73	788
22	88	980	303	68	80	741

NWSC0407 ADCP 1245

Deployment: NWSC0407

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|
-----
1| 613| 728 357 138 41 11 1 0 0 0 0 0 0 0 0 0 0 0
2| 588| 733 359 134 40 10 1 0 0 0 0 0 0 0 0 0 0 0 0
3| 563| 747 364 134 39 8 1 0 0 0 0 0 0 0 0 0 0 0 0
4| 538| 751 372 137 37 7 1 0 0 0 0 0 0 0 0 0 0 0 0
5| 513| 756 381 143 39 6 1 0 0 0 0 0 0 0 0 0 0 0 0
6| 488| 765 395 151 40 8 1 0 0 0 0 0 0 0 0 0 0 0 0
7| 463| 779 417 166 45 8 1 0 0 0 0 0 0 0 0 0 0 0 0
8| 438| 787 430 182 53 9 1 0 0 0 0 0 0 0 0 0 0 0 0
9| 413| 795 455 194 66 15 2 0 0 0 0 0 0 0 0 0 0 0 0
10| 388| 807 477 221 84 24 4 1 0 0 0 0 0 0 0 0 0 0 0
11| 363| 819 496 243 98 33 7 1 0 0 0 0 0 0 0 0 0 0 0
12| 338| 825 519 265 114 42 11 2 0 0 0 0 0 0 0 0 0 0 0
13| 313| 834 541 280 128 53 16 3 0 0 0 0 0 0 0 0 0 0 0
14| 288| 844 558 295 140 61 19 5 1 0 0 0 0 0 0 0 0 0 0
15| 263| 845 565 308 149 66 22 6 1 0 0 0 0 0 0 0 0 0 0
16| 238| 841 573 316 156 73 28 8 2 0 0 0 0 0 0 0 0 0 0
17| 213| 839 578 322 163 80 31 10 4 1 0 0 0 0 0 0 0 0 0
18| 188| 809 560 323 169 82 35 14 4 1 0 0 0 0 0 0 0 0 0
19| 163| 776 548 324 171 87 40 16 5 2 0 0 0 0 0 0 0 0 0
20| 138| 738 529 322 172 89 43 19 7 2 0 0 0 0 0 0 0 0 0
21| 113| 708 515 323 183 98 49 22 9 3 1 0 0 0 0 0 0 0 0
22| 88| 671 497 319 185 106 57 25 11 4 2 1 0 0 0 0 0 0 0
-----

```

NWSC0407 ADCP 1245

Harmonic constants for constituent M2 for deployment NWSC0407.

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	613	147	254	117	249	188	8	39	252	A
02	588	144	255	121	251	188	7	40	254	A
03	563	141	256	124	253	187	6	41	255	A
04	538	137	258	128	254	187	6	43	256	A
05	513	135	259	133	256	189	6	45	258	A
06	488	130	261	137	257	189	6	47	259	A
07	463	126	263	142	259	189	5	48	261	A
08	438	120	262	141	263	185	0	50	262	C
09	413	112	262	136	266	176	6	51	265	C
10	388	104	263	136	269	171	9	53	267	C
11	363	96	265	140	271	169	9	56	269	C
12	338	92	266	142	272	169	8	57	271	C
13	313	89	268	146	274	171	8	59	272	C
14	288	88	270	148	275	173	6	59	273	C
15	263	88	271	149	275	173	5	59	274	C
16	238	87	271	149	276	173	7	60	274	C
17	213	85	272	150	276	172	5	60	275	C
18	188	85	273	152	276	174	5	61	276	C
19	163	84	273	155	277	176	5	62	276	C
20	138	82	274	157	278	177	6	63	277	C
21	113	78	276	160	279	178	4	64	279	C
22	88	75	277	158	281	175	5	65	280	C

Harmonic constants for constituent S2 for deployment NWSC0407.

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	613	41	293	48	300	63	4	49	297	C
02	588	40	292	49	301	63	5	51	298	C
03	563	39	294	50	301	64	4	52	299	C
04	538	41	294	51	300	66	3	51	298	C
05	513	43	293	51	297	67	3	50	295	C
06	488	45	292	51	296	67	2	48	294	C
07	463	46	293	49	295	68	2	46	294	C
08	438	46	292	47	297	65	3	46	295	C
09	413	45	293	48	300	65	4	47	297	C
10	388	44	289	47	302	64	7	47	296	C
11	363	42	284	45	304	61	10	47	295	C
12	338	40	282	45	306	59	13	49	296	C
13	313	39	284	46	305	59	11	50	296	C
14	288	41	291	46	304	61	7	48	298	C
15	263	45	295	46	302	64	4	46	299	C
16	238	48	296	45	299	66	2	43	297	C
17	213	51	296	45	299	68	2	42	297	C
18	188	54	298	47	301	71	2	41	299	C
19	163	53	299	48	304	71	4	42	301	C
20	138	51	296	47	304	69	5	43	300	C
21	113	53	291	45	300	69	6	40	295	C
22	88	53	287	42	301	67	8	38	292	C

NWSC0407 ADCP 1245

Harmonic constants for constituent N2 for deployment NWSC0407.

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	613	28	214	17	235	33	5	30	219	C
02	588	29	215	18	239	34	6	31	222	C
03	563	27	216	20	238	33	6	35	224	C
04	538	24	221	23	240	33	5	43	230	C
05	513	24	228	27	240	36	4	48	235	C
06	488	27	237	31	235	41	0	50	236	A
07	463	28	246	37	233	46	5	53	238	A
08	438	26	252	37	237	45	6	56	242	A
09	413	24	251	35	241	42	3	56	244	A
10	388	23	250	34	243	41	2	56	245	A
11	363	21	252	33	250	39	1	58	251	A
12	338	20	262	35	256	40	2	60	258	A
13	313	21	262	37	253	43	3	60	255	A
14	288	21	266	37	251	43	5	61	254	A
15	263	22	264	39	251	44	4	61	254	A
16	238	23	265	40	250	45	5	60	254	A
17	213	24	266	40	250	46	5	59	254	A
18	188	26	269	41	251	49	7	58	256	A
19	163	25	272	43	248	49	9	61	254	A
20	138	24	265	42	251	49	5	60	255	A
21	113	26	270	43	247	50	9	59	253	A
22	88	26	276	43	244	49	12	60	252	A

Harmonic constants for constituent O1 for deployment NWSC0407.

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	613	9	20	9	43	12	2	47	32	C
02	588	8	16	9	44	12	3	49	32	C
03	563	9	12	8	42	12	3	43	26	C
04	538	9	11	8	42	12	3	41	24	C
05	513	10	8	8	34	13	3	40	19	C
06	488	10	14	9	35	13	2	45	25	C
07	463	8	20	9	34	11	1	49	28	C
08	438	6	18	8	41	10	2	51	32	C
09	413	7	15	9	41	11	2	53	31	C
10	388	9	17	10	27	13	1	48	23	C
11	363	8	25	9	32	12	1	48	29	C
12	338	6	29	7	42	9	1	51	37	C
13	313	5	20	6	48	8	2	49	35	C
14	288	6	20	7	42	9	2	49	33	C
15	263	7	25	7	36	10	1	46	31	C
16	238	7	15	8	29	11	1	49	23	C
17	213	8	21	10	23	13	0	52	22	C
18	188	10	29	10	12	14	2	46	20	A
19	163	11	36	10	11	14	3	44	24	A
20	138	10	42	7	15	12	3	35	33	A
21	113	9	50	7	357	11	5	33	33	A
22	88	4	26	7	339	8	3	65	349	A

NWSC0407 ADCP 1245

Harmonic constants for constituent K1 for deployment NWSC0407.

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	613	7	247	2	235	7	0	18	246	A
02	588	6	243	2	238	6	0	15	242	A
03	563	6	246	2	208	6	1	18	242	A
04	538	6	240	2	179	6	2	9	238	A
05	513	6	229	2	160	6	1	6	228	A
06	488	7	213	2	127	7	2	1	213	A
07	463	8	214	5	143	8	4	17	204	A
08	438	6	210	5	150	7	4	33	190	A
09	413	7	203	6	156	8	3	37	186	A
10	388	5	209	5	205	7	0	47	207	A
11	363	4	236	8	239	9	0	64	239	C
12	338	1	73	8	225	8	0	95	225	C
13	313	4	97	8	202	8	4	100	207	C
14	288	3	115	8	187	8	3	82	184	C
15	263	3	148	7	177	8	1	70	174	C
16	238	3	153	7	171	7	1	68	169	C
17	213	2	215	7	167	7	1	80	169	A
18	188	4	262	6	197	6	3	68	209	A
19	163	7	272	6	242	9	2	38	260	A
20	138	9	264	9	277	13	2	45	270	C
21	113	13	263	10	289	16	4	38	273	C
22	88	16	266	7	293	17	3	21	270	C

NWSC0407 Aanderaa 718

Deployment: NWSC0407 analyzed from beginning to end
 Instrument no.: 718
 Instrument type: Aanderaa
 Latitude: 60 33.958 N
 Longitude: 04 45.775 W
 Bottom depth: 1068
 Instrument depth: 756
 Number of records: 7739
 Time of first record: 2004 07 04 00 30
 Time of last record : 2005 05 22 10 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	7738	1
Column 8 : Speed	7739	0
Column 9 : Direct	7739	0

Comments

Residual current: 70 mm/sec towards: 224 degrees

TIDAL ANALYSIS

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

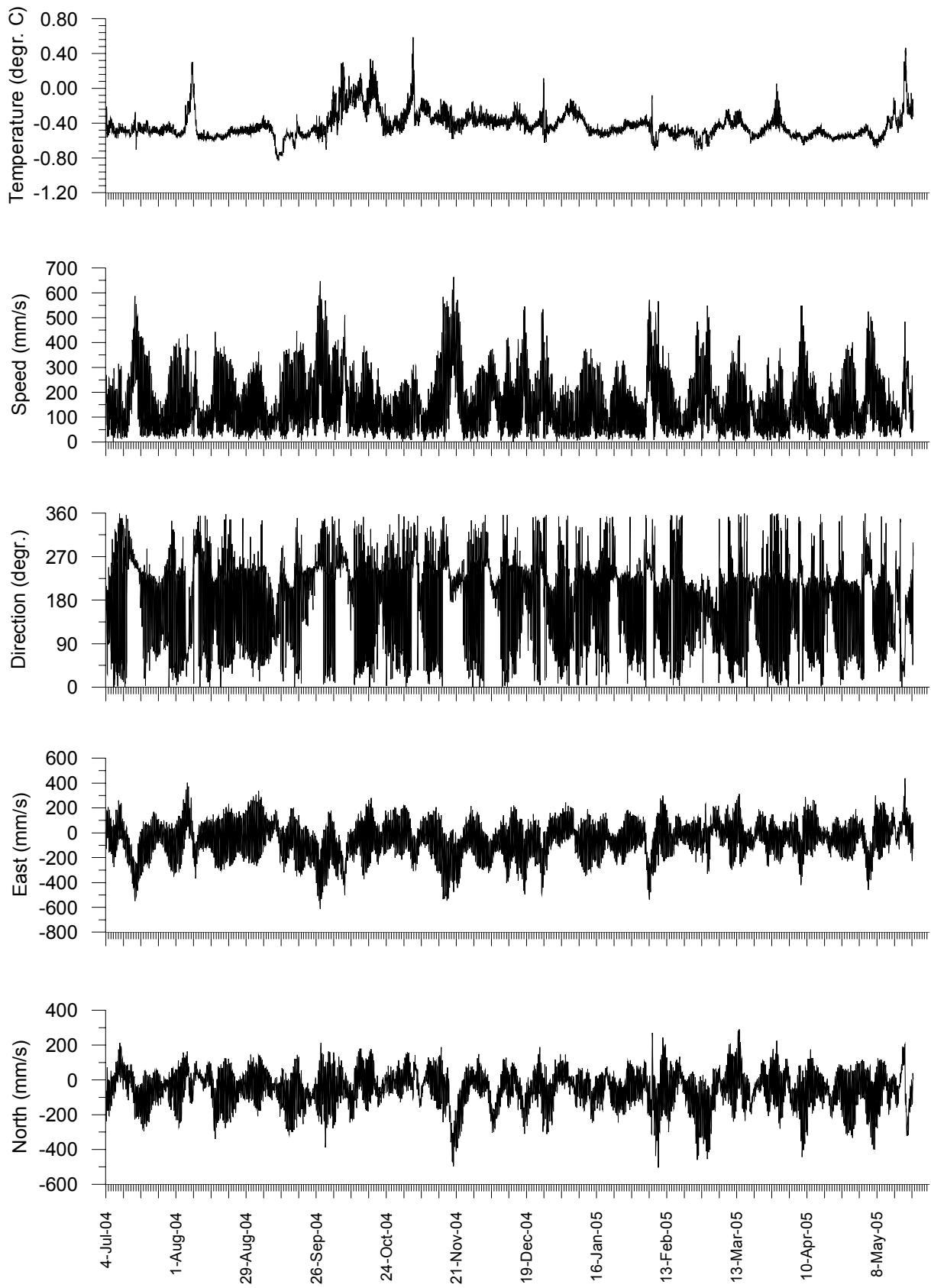
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	16	235	12	166	17	10	26	218	A
MSF	.00282193	12	135	1	67	12	1	2	135	A
Q1	.03721850	4	337	5	8	6	2	46	353	C
O1	.03873065	9	14	8	38	11	2	40	24	C
NO1	.04026859	0	217	0	139	0	0	84	142	A
P1	.04155259	2	249	1	61	2	0	146	67	C
K1	.04178075	6	234	1	228	6	0	8	234	A
N2	.07899925	33	221	15	219	37	0	24	221	A
M2	.08051140	143	253	91	247	170	9	32	252	A
L2	.08202355	2	287	2	304	3	0	50	297	C
S2	.08333334	41	298	41	299	58	0	45	298	C
K2	.08356149	12	310	15	298	19	2	52	302	A
MK3	.12229210	1	119	1	290	1	0	119	292	C
M4	.16102280	4	324	3	309	5	1	36	319	A
MS4	.16384470	3	354	3	0	4	0	43	357	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	10	13	14	13	12	14	16	11	10	11	8	8	141	141
50 - 100	13	26	27	25	19	17	26	34	26	13	9	8	242	384
100 - 150	7	26	29	15	7	9	24	36	28	8	4	1	194	578
150 - 200	3	18	20	6	3	5	14	42	27	7	1	1	147	725
200 - 300	0.26	16	15	2	1	2	17	62	44	6	1	0.39	167	892
300 - 400	0	2	3	0	0	1	9	33	24	1	0	0	73	964
400 - 500	0	0.39	1	0	0	0	3	10	9	0	0	0	23	988
500 - 600	0	0	0	0	0	0	1	5	6	0	0	0	11	999
600 - 700	0	0	0	0	0	0	0	1	0.39	0	0	0	1	1000
Total (ppt)	33	101	109	60	43	48	110	233	175	47	23	18		
Rel.flux (ppt)	17	87	93	35	23	29	109	314	240	36	11	7		
Avg.spd (mm/s)	78	134	133	92	84	94	154	210	214	118	73	62		
Max.spd (mm/s)	235	428	484	293	296	326	566	663	648	367	252	279		

NWSC0407 Aanderaa 718



NWSC0407 Aanderaa 718

Progressive vector diagram

