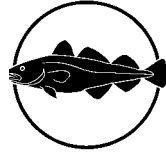


The Faroese Fisheries Laboratory

Fiskirannsóknarstovan



Nordic WOCE ADCP Deployments in Faroese Waters 2003 - 2004

By

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Technical Report No.: 04-04

Tórshavn

November 2004

Introduction

This report documents 10 ADCP deployments in Faroese waters in 2003 – 2004 and one between 2001 and 2003. Aanderaa Current Meters are included in three, and Microcats in two of the deployments. The deployments are listed in Table 1. Each deployment is identified by an 8-character label where the first four characters indicate the site (Fig. 1) while the last characters show year and month of deployment. The moorings were located at 10 standard (Nordic WOCE) sites with two deployments at NWFC and one at each of the other sites. At site NWFC the mooring was recovered in November, data downloaded, and the mooring redeployed.

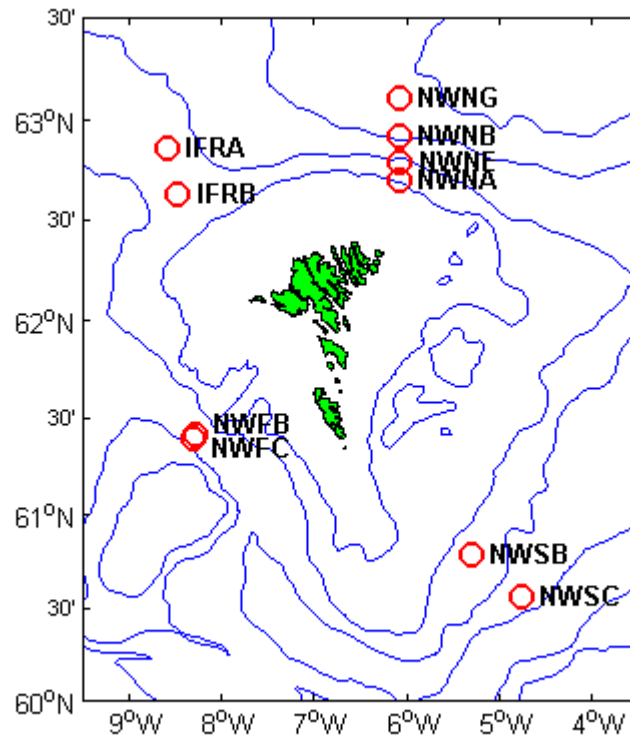


Figure 1. ADCP and Aanderaa mooring sites in Faroese waters 2003-2004 superposed on a map with the bottom topography. Each site is indicated by a four-letter label.

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 IFRB, shallow water rigs with 75 kHz RDI Long Rangers were used. For each deployment, the ADCP measures the velocity averaged over a number (17 – 44) of depth layers ("bins") which were 25m for all rigs except for the deployments IFRA, IFRB and NWNA where the depth layers were 10m. At 20 minutes 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 IFRB, where each ensemble is based upon 12 pings. At sites NWNB, 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's interval. At two deployments, IFRA and NWFB, Microcats were attached to the ADCP. They record temperature, salinity and pressure every 5 minutes.

Two deployments behaved unsatisfactorily, IFRA and NWNE. Because of a water leak in the IFRA ADCP, only Microcat data were retrieved from this position. The NWNE ADCP was deployed in 2001, but by accident it was put upside-down on the seafloor, and therefore not recovered until 2004. The bad orientation also spoilt all measurements except for temperature. 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	Depth range	Comments
IFRA0307	500	--	2003 07 04-2004 05 25	331	--	---	Microcat
IFRB0307	495	20	2003 07 04-2004 06 11	343	44	45- 475	
NWFB0307	813	20	2003 07 05-2004 06 12	343	17	371- 771	Microcat
NWFC0307	835	20	2003 07 05-2003 11 01	118	25	193- 793	
NWFC0311	836	20	2003 11 07-2004 06 12	218	25	194- 794	
NWNA0307	294	20	2003 07 04-2004 06 11	342	23	57- 277	
NWNB0307	955	20	2003 07 05-2004 06 11	342	24	90- 665	Aanderaa
NWNE0107	447	--	2001 07 05-2003 12 30	906	--	---	
NWNG0307	1799	20	2003 07 05-2004 06 11	342	21	90- 590	Aanderaa
NWSB0307	783	20	2003 07 06-2004 06 14	344	21	139- 639	
NWSC0307	1060	20	2003 07 06-2004 06 14	344	22	85- 610	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, 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 is not calibrated. The Microcat data from IFRA and NWFB, which include pressure, temperature, and conductivity measurements, will require editing and calibration but are included in the report.

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. Finally, for the ADCP deployments, 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 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 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.

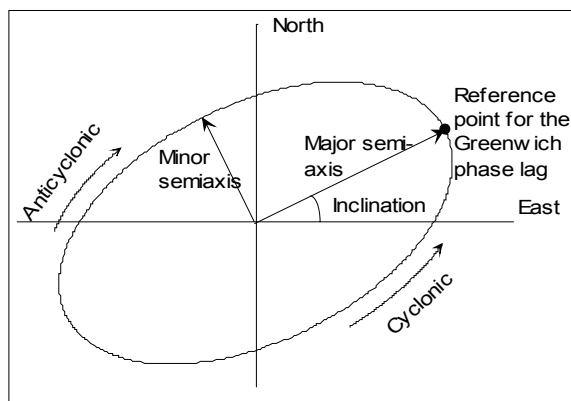


Figure 2. Parameters of the tidal ellipse for a given constituent. The reference point for the Greenwich phase lag is always chosen to be above the east-west axis.

Deployment Id: IFRA0307

Latitude: 62°37.971'N

Longitude: 008°28.330'W

Echo sound depth: 496m

Bottom depth corr.: 500m

Time of deployment: 04/07 -2003 0725UTC

Time of recovery: 11/06 - 2004 1230UTC

ADCP:

Instrument no.: RDI WH Long Ranger ADCP 3369

Instrument frequency: 75kHz

Height above bottom: 1m

Depth: 499m (corr.)

Time of first data: No data

Time of last data: No data

Sample interval: No data

No. of ensembles: No data

Pings per ens.: No data

Binlength: No data

Depth of first bin: No data

No. of bins: No data

Micro Cat:

Instrument no.: 0981

Height above bottom: 1m

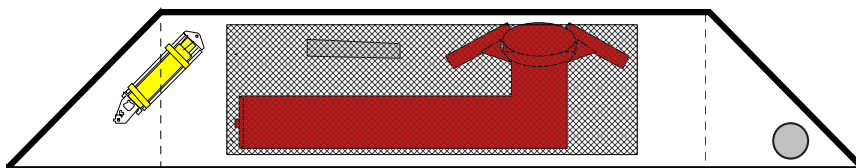
Time of first data: 04/07 - 2003 0730UTC

Time of last data: 25/05 - 2004 2135UTC

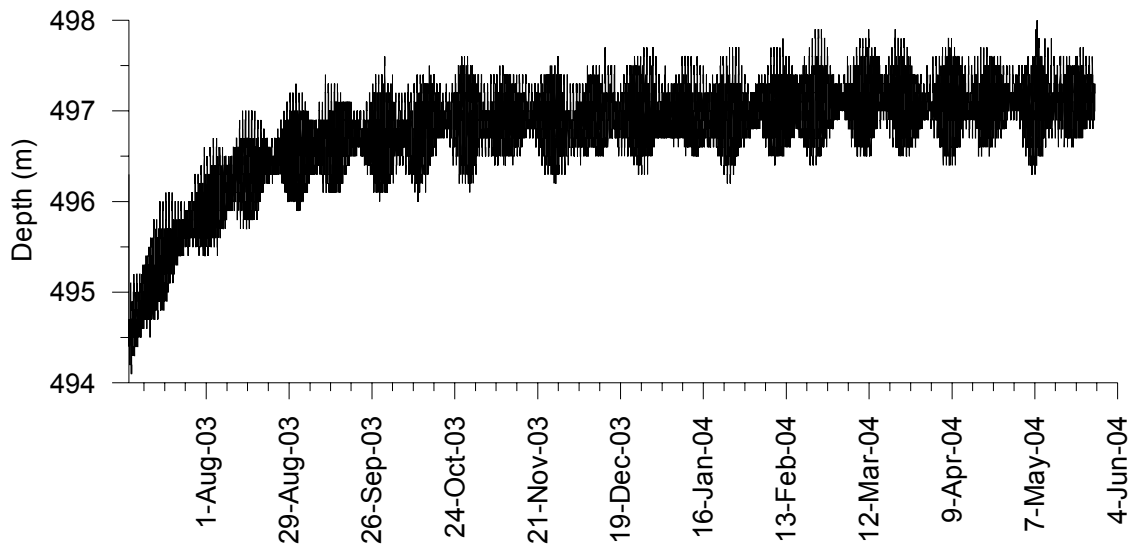
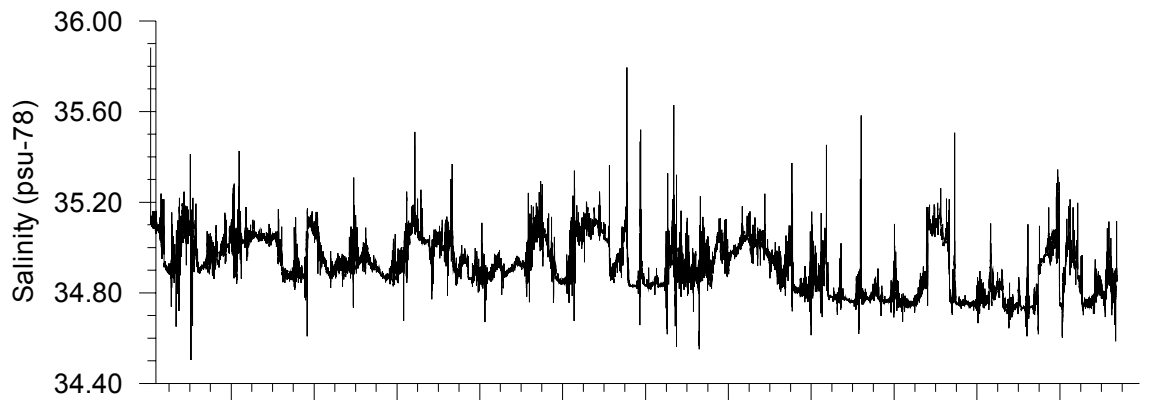
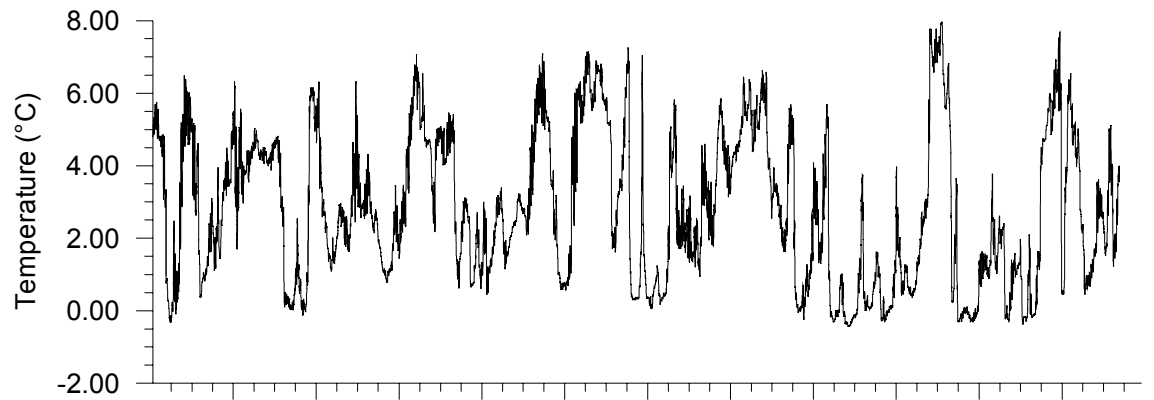
Sample interval: 5 min

No. of ensembles: 94058

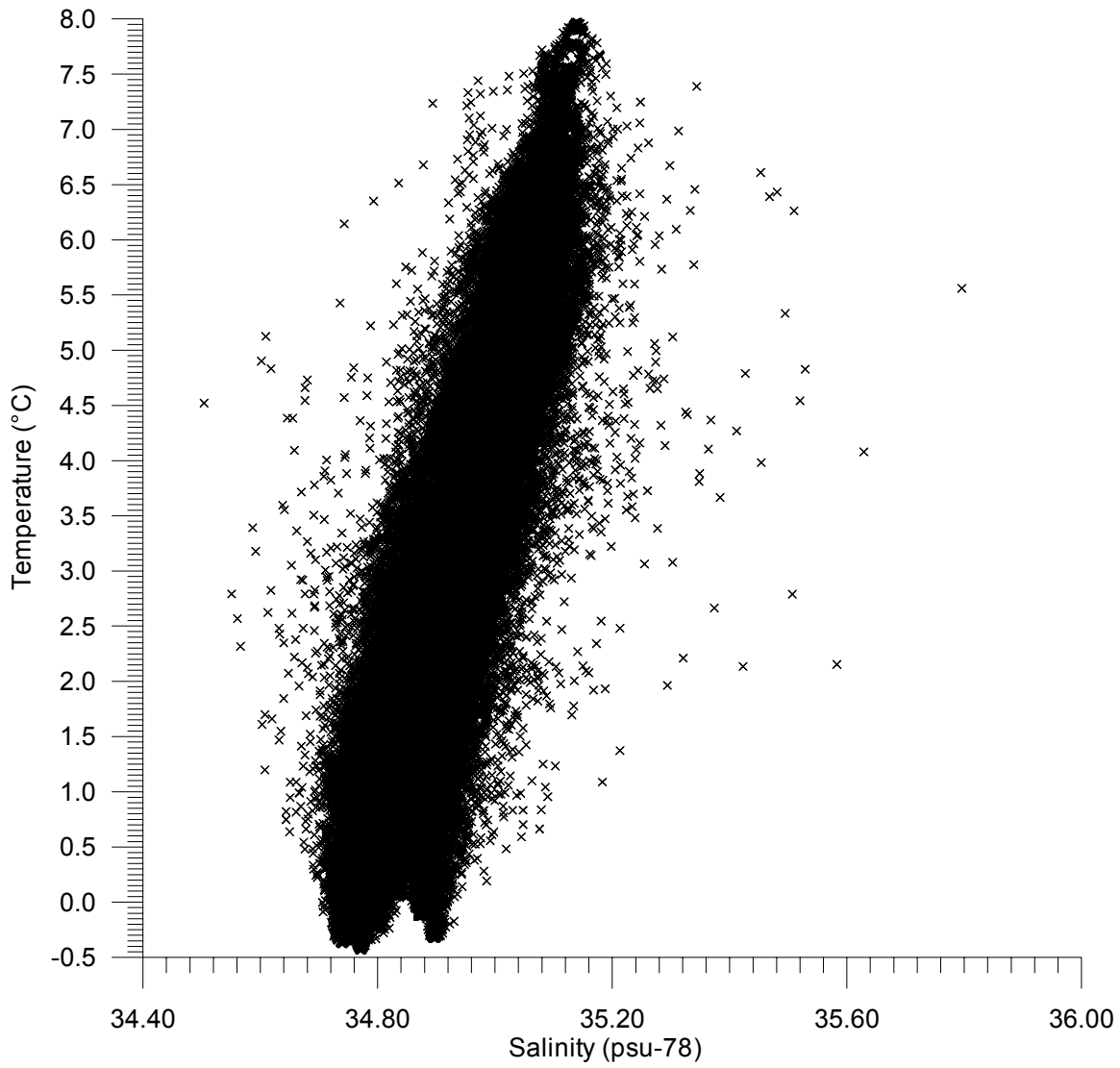
Instrument depth: 500m



IFRA0307
MicroCat 0981
(Salinity has not been quality controlled)



IFRA0307
MicroCat 0981
(Salinity has not been quality controlled)



Deployment Id: IFRB0307

Latitude: 62°51.668'N

Longitude: 008°35.360'W

Echo sound depth: 491m

Bottom depth corr.: 495m

Time of deployment: 04/07 -2003 0401UTC

Time of recovery: 11/06 - 2004 0948UTC

ADCP:

Instrument no.: RDI WH Long Ranger ADCP 3368

Instrument frequency: 75kHz

Height above bottom: 1m

Depth: 494m (corr.)

Time of first data: 04/07 – 2003 0520UTC

Time of last data: 11/06 – 2004 0920UTC

Sample interval: 20 min

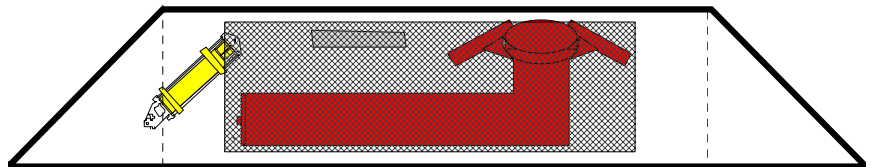
No. of ensembles: 24709

Pings per ens.: 12

Binlength: 10 m

Depth of first bin: 475m (corr.)

No. of bins: 50



IFRB0307 ADCP 3368

Error statistics for deployment: IFRB0307 updated 2004/11/22

Surface distance not available
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 44 by HV in Nov 2004
 Intensity edited up to and including bin 44 by HS in Okt 2004

Total number of ensembles: 24709
 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	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	279	1	273	3	0	0	0	0	0	0	0	0	0
2	0	148	1	144	2	0	0	0	0	0	0	0	0	0
3	0	146	1	134	3	2	0	0	0	0	0	0	0	0
4	0	155	1	152	0	1	0	0	0	0	0	0	0	0
5	0	136	1	134	1	0	0	0	0	0	0	0	0	0
6	1	189	1	185	2	0	0	0	0	0	0	0	0	0
7	0	207	1	201	3	0	0	0	0	0	0	0	0	0
8	0	176	1	162	7	0	0	0	0	0	0	0	0	0
9	0	141	1	139	1	0	0	0	0	0	0	0	0	0
10	0	170	1	164	3	0	0	0	0	0	0	0	0	0
11	0	153	1	149	2	0	0	0	0	0	0	0	0	0
12	0	174	1	174	0	0	0	0	0	0	0	0	0	0
13	0	170	1	166	2	0	0	0	0	0	0	0	0	0
14	0	122	0	120	1	0	0	0	0	0	0	0	0	0
15	0	164	1	160	2	0	0	0	0	0	0	0	0	0
16	0	176	1	172	2	0	0	0	0	0	0	0	0	0
17	0	212	1	200	6	0	0	0	0	0	0	0	0	0
18	0	156	1	148	4	0	0	0	0	0	0	0	0	0
19	0	179	1	164	6	1	0	0	0	0	0	0	0	0
20	0	130	1	126	2	0	0	0	0	0	0	0	0	0
21	0	204	1	200	2	0	0	0	0	0	0	0	0	0
22	0	166	1	156	5	0	0	0	0	0	0	0	0	0
23	0	127	1	125	1	0	0	0	0	0	0	0	0	0
24	0	148	1	138	5	0	0	0	0	0	0	0	0	0
25	0	167	1	150	5	1	1	0	0	0	0	0	0	0
26	0	240	1	200	11	2	0	0	2	0	0	0	0	0
27	0	255	1	206	20	3	0	0	0	0	0	0	0	0
28	0	374	2	249	19	13	3	2	4	0	0	0	0	0
29	0	404	2	233	35	6	6	3	3	0	1	0	0	0
30	0	484	2	238	37	12	9	7	5	0	1	0	0	0
31	0	533	2	296	38	12	7	4	7	2	0	0	0	0
32	0	620	3	299	53	21	12	6	6	2	0	0	0	0
33	0	606	2	276	40	24	14	8	10	1	0	0	0	0
34	0	719	3	321	68	25	8	9	11	2	0	0	0	0
35	0	833	3	316	62	29	17	9	12	6	1	0	0	0
36	0	967	4	336	72	35	16	10	16	9	1	0	0	0
37	0	1105	4	360	68	34	9	9	27	8	4	0	0	0
38	0	1369	6	409	76	31	25	13	26	12	7	1	0	0
39	0	1553	6	499	90	32	19	17	29	14	6	2	0	0
40	0	1730	7	499	89	42	22	12	28	16	7	5	0	0
41	0	1969	8	592	147	49	27	19	33	18	7	2	0	0
42	0	2274	9	745	160	64	38	18	48	18	3	2	0	0
43	0	2672	11	911	216	90	34	23	32	25	6	2	0	0
44	0	5763	23	1934	599	211	116	60	92	22	7	3	0	0

IFRB0307 ADCP 3368

Deployment: IFRB0307 updated 2004/11/22
Instrument no.: 3368
Instrument freq.: 75
Latitude: 62 51.668 N
Longitude: 08 35.360 W
Bottom depth: 495
Instrument depth: 494
Center depth of first bin: 475
Bin length: 10
Number of bins: 44
Number of first ensemble: 53
Time of first ensemble: 2003 07 04 05 20
Number of last ensemble: 24761
Time of last ensemble: 2004 06 11 09 20
Time between ensembles (min.): 20
All directions have been corrected by adding: -12.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	475	20	213	30	343	989
2	465	30	223	30	346	994
3	455	40	229	29	352	994
4	445	50	234	29	357	994
5	435	60	238	31	0	994
6	425	70	243	33	5	992
7	415	80	249	36	8	992
8	405	90	255	40	12	993
9	395	100	263	43	15	994
10	385	110	270	46	18	993
11	375	120	277	50	21	994
12	365	130	284	54	24	993
13	355	140	292	57	26	993
14	345	150	298	61	27	995
15	335	160	304	65	28	993
16	325	170	309	68	30	993
17	315	180	314	71	31	991
18	305	190	318	74	32	994
19	295	200	322	77	32	993
20	285	210	325	79	33	995
21	275	220	328	81	34	992
22	265	230	331	83	34	993
23	255	240	333	85	34	995
24	245	250	336	86	34	994
25	235	260	338	87	35	993
26	225	270	339	88	34	990
27	215	280	340	89	34	990
28	205	290	342	90	34	985
29	195	300	344	90	34	984
30	185	310	346	91	35	980
31	175	320	348	93	34	978
32	165	330	349	93	34	975
33	155	340	351	93	34	975
34	145	350	353	95	34	971
35	135	360	355	96	34	966
36	125	370	356	95	35	961
37	115	380	358	96	35	955
38	105	390	360	95	34	945
39	95	400	363	96	34	937
40	85	410	367	97	34	930
41	75	420	370	97	34	920
42	65	430	375	98	35	908
43	55	440	379	96	35	892
44	45	450	338	90	35	767

IFRB0307 ADCP 3368

Deployment: IFRB0307

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	475	836	491	207	66	16	3	0	0	0	0	0	0	0	0	0	0	0	0
2	465	854	528	234	84	23	4	1	0	0	0	0	0	0	0	0	0	0	0
3	455	860	546	252	92	26	5	0	0	0	0	0	0	0	0	0	0	0	0
4	445	862	558	271	100	31	6	1	0	0	0	0	0	0	0	0	0	0	0
5	435	861	565	288	116	36	9	1	0	0	0	0	0	0	0	0	0	0	0
6	425	859	572	302	128	44	11	2	0	0	0	0	0	0	0	0	0	0	0
7	415	864	582	316	137	53	14	3	0	0	0	0	0	0	0	0	0	0	0
8	405	874	598	334	151	58	20	5	1	0	0	0	0	0	0	0	0	0	0
9	395	882	621	350	169	66	24	6	1	0	0	0	0	0	0	0	0	0	0
10	385	886	637	370	182	76	28	8	1	0	0	0	0	0	0	0	0	0	0
11	375	892	654	393	195	83	31	9	2	0	0	0	0	0	0	0	0	0	0
12	365	900	671	410	209	92	36	11	2	0	0	0	0	0	0	0	0	0	0
13	355	907	689	431	224	99	38	12	2	1	0	0	0	0	0	0	0	0	0
14	345	911	704	450	237	109	41	14	3	0	0	0	0	0	0	0	0	0	0
15	335	917	713	461	252	119	45	14	3	1	0	0	0	0	0	0	0	0	0
16	325	919	722	477	263	127	48	15	3	0	0	0	0	0	0	0	0	0	0
17	315	921	731	488	273	132	53	16	4	0	0	0	0	0	0	0	0	0	0
18	305	925	737	500	283	139	56	18	4	1	0	0	0	0	0	0	0	0	0
19	295	928	745	506	289	145	60	20	4	1	0	0	0	0	0	0	0	0	0
20	285	932	753	514	302	152	63	22	5	1	0	0	0	0	0	0	0	0	0
21	275	927	753	521	311	156	66	22	6	1	0	0	0	0	0	0	0	0	0
22	265	929	756	529	319	163	69	25	6	1	0	0	0	0	0	0	0	0	0
23	255	929	758	535	327	165	72	26	6	1	0	0	0	0	0	0	0	0	0
24	245	929	766	540	327	171	75	27	8	1	0	0	0	0	0	0	0	0	0
25	235	929	767	546	330	176	77	28	8	1	0	0	0	0	0	0	0	0	0
26	225	928	767	548	333	176	78	29	8	1	0	0	0	0	0	0	0	0	0
27	215	929	768	549	333	180	81	29	9	1	0	0	0	0	0	0	0	0	0
28	205	923	766	551	336	180	83	30	9	1	0	0	0	0	0	0	0	0	0
29	195	926	769	553	339	185	85	32	10	2	0	0	0	0	0	0	0	0	0
30	185	923	768	552	342	186	86	33	11	2	0	0	0	0	0	0	0	0	0
31	175	922	769	556	346	189	89	35	11	2	0	0	0	0	0	0	0	0	0
32	165	920	769	559	348	189	89	37	11	2	0	0	0	0	0	0	0	0	0
33	155	922	775	563	350	192	92	38	12	2	0	0	0	0	0	0	0	0	0
34	145	919	770	563	354	196	94	39	13	3	1	0	0	0	0	0	0	0	0
35	135	915	771	563	355	199	96	41	13	3	1	0	0	0	0	0	0	0	0
36	125	910	767	559	356	200	98	42	13	3	0	0	0	0	0	0	0	0	0
37	115	906	764	560	357	202	100	43	14	3	0	0	0	0	0	0	0	0	0
38	105	897	758	556	357	203	100	44	14	3	1	0	0	0	0	0	0	0	0
39	95	891	755	562	359	208	102	44	14	3	1	0	0	0	0	0	0	0	0
40	85	884	754	564	364	212	106	47	15	3	1	0	0	0	0	0	0	0	0
41	75	874	746	564	369	215	108	48	17	4	1	0	0	0	0	0	0	0	0
42	65	863	744	565	375	221	112	51	19	5	2	0	0	0	0	0	0	0	0
43	55	850	733	561	378	225	114	52	21	6	1	0	0	0	0	0	0	0	0
44	45	717	582	408	250	134	67	31	14	7	3	2	1	1	0	0	0	0	0

IFRB0307 ADCP 3368

Harmonic constants for constituent M2 for deployment IFRB0307.

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	475	150	237	99	234	179	3	33	236	A
02	465	161	246	123	232	201	24	37	241	A
03	455	167	254	147	232	218	42	41	244	A
04	445	170	261	168	234	233	56	45	247	A
05	435	173	266	186	235	244	69	47	249	A
06	425	178	271	200	235	255	81	49	251	A
07	415	184	275	213	235	265	93	50	252	A
08	405	190	278	223	235	274	104	51	252	A
09	395	197	280	233	235	282	114	52	253	A
10	385	205	281	240	234	291	123	52	253	A
11	375	211	282	247	234	298	130	52	253	A
12	365	218	283	253	233	304	138	51	253	A
13	355	226	283	258	232	310	146	51	253	A
14	345	232	283	261	231	315	151	50	253	A
15	335	238	282	265	230	321	154	50	252	A
16	325	242	282	269	230	326	158	50	252	A
17	315	248	282	271	229	330	162	49	252	A
18	305	252	281	273	228	333	165	49	252	A
19	295	255	281	274	227	335	167	49	251	A
20	285	257	280	276	227	337	170	48	251	A
21	275	259	280	277	226	339	171	48	251	A
22	265	261	280	278	226	340	172	48	250	A
23	255	262	280	277	226	340	173	48	250	A
24	245	263	279	277	225	341	174	48	250	A
25	235	265	279	277	225	342	175	47	250	A
26	225	265	279	277	225	342	174	47	250	A
27	215	266	279	277	225	342	175	47	250	A
28	205	266	279	277	224	342	175	47	250	A
29	195	267	279	277	224	343	176	47	250	A
30	185	268	278	278	224	344	176	47	250	A
31	175	270	278	279	224	345	177	47	250	A
32	165	271	278	278	224	346	177	46	250	A
33	155	273	278	279	223	347	179	46	250	A
34	145	274	278	280	223	348	179	46	250	A
35	135	275	278	280	223	349	181	46	250	A
36	125	275	277	279	223	348	181	46	249	A
37	115	277	277	280	222	349	182	46	249	A
38	105	280	277	280	222	351	183	45	249	A
39	95	282	277	280	221	352	185	45	249	A
40	85	284	276	280	221	353	186	44	249	A
41	75	285	276	279	220	353	186	44	249	A
42	65	288	275	278	219	353	188	43	249	A
43	55	288	274	279	219	355	186	43	248	A
44	45	223	275	219	217	274	149	44	247	A

IFRB0307 ADCP 3368

Harmonic constants for constituent S2 for deployment IFRB0307.

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	475	65	265	26	249	70	6	21	263	A
02	465	72	273	35	245	79	15	25	268	A
03	455	76	282	46	250	86	22	29	274	A
04	445	76	291	55	256	90	27	34	279	A
05	435	76	297	63	260	94	30	38	283	A
06	425	75	301	67	264	95	32	41	285	A
07	415	74	305	70	265	96	34	43	286	A
08	405	74	308	73	268	97	36	45	288	A
09	395	74	311	76	269	99	38	46	290	A
10	385	76	314	79	269	102	41	47	290	A
11	375	78	314	81	269	104	43	47	291	A
12	365	80	315	82	269	105	45	46	291	A
13	355	82	317	83	268	107	48	45	292	A
14	345	84	318	85	267	108	51	46	292	A
15	335	86	317	87	266	110	53	46	291	A
16	325	87	317	88	266	111	54	45	291	A
17	315	87	318	89	265	111	56	46	291	A
18	305	89	317	90	265	113	56	46	290	A
19	295	90	317	92	264	115	57	46	290	A
20	285	92	318	93	264	117	59	46	290	A
21	275	93	317	94	264	118	59	46	290	A
22	265	94	318	95	264	119	61	46	290	A
23	255	94	318	96	264	120	61	46	290	A
24	245	95	318	96	264	121	61	45	291	A
25	235	96	318	95	264	120	61	45	291	A
26	225	96	318	96	264	121	61	45	291	A
27	215	96	318	95	264	120	61	44	292	A
28	205	97	318	94	265	121	61	44	293	A
29	195	98	319	95	265	122	61	43	293	A
30	185	98	319	94	265	121	62	43	293	A
31	175	99	319	94	265	122	62	43	294	A
32	165	98	319	94	266	122	61	43	294	A
33	155	99	319	94	266	122	62	43	294	A
34	145	99	319	94	266	122	61	42	294	A
35	135	99	319	93	265	121	61	42	295	A
36	125	100	319	93	264	121	62	42	294	A
37	115	100	318	93	264	122	61	42	294	A
38	105	101	317	94	264	123	61	42	293	A
39	95	102	317	94	264	125	62	41	293	A
40	85	103	318	95	262	125	65	41	293	A
41	75	104	317	98	262	126	66	42	292	A
42	65	106	319	98	261	127	69	40	294	A
43	55	104	319	98	261	125	69	42	292	A
44	45	82	319	79	265	101	51	43	293	A

IFRB0307 ADCP 3368

Harmonic constants for constituent N2 for deployment IFRB0307.

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	475	33	204	10	229	34	4	16	206	C
02	465	32	213	14	217	35	1	24	214	C
03	455	31	224	21	219	37	1	34	222	A
04	445	30	235	27	222	40	4	42	229	A
05	435	28	245	33	230	43	6	50	236	A
06	425	28	255	38	231	46	9	54	239	A
07	415	30	260	41	230	49	12	55	240	A
08	405	32	262	44	226	52	16	56	238	A
09	395	35	262	45	222	54	19	55	236	A
10	385	39	263	48	219	57	23	53	235	A
11	375	44	264	50	216	61	26	51	235	A
12	365	47	263	54	213	66	30	51	233	A
13	355	50	263	58	211	69	33	51	232	A
14	345	52	264	60	209	71	36	52	231	A
15	335	53	265	61	209	72	37	52	231	A
16	325	55	264	60	207	72	38	50	231	A
17	315	56	263	60	205	72	40	49	231	A
18	305	57	262	60	205	73	40	48	231	A
19	295	59	261	60	204	74	40	46	231	A
20	285	59	261	60	204	74	41	46	232	A
21	275	60	261	60	203	74	41	45	232	A
22	265	60	260	61	202	75	42	45	231	A
23	255	61	261	61	202	75	42	46	231	A
24	245	62	260	61	202	76	42	44	232	A
25	235	62	259	61	202	76	42	45	231	A
26	225	62	259	60	202	76	41	44	231	A
27	215	62	259	60	202	75	41	43	232	A
28	205	62	258	59	201	75	41	42	232	A
29	195	62	259	59	201	75	41	42	232	A
30	185	62	258	59	200	75	42	43	231	A
31	175	61	258	58	200	74	41	42	232	A
32	165	61	257	59	201	75	40	43	231	A
33	155	62	256	58	200	75	40	42	231	A
34	145	61	256	59	201	75	40	43	230	A
35	135	62	256	58	199	74	40	41	231	A
36	125	61	255	57	199	74	39	41	230	A
37	115	62	253	55	198	74	38	40	230	A
38	105	59	252	54	198	71	36	41	228	A
39	95	58	250	53	197	70	34	40	227	A
40	85	57	250	52	196	69	36	40	227	A
41	75	58	248	51	195	69	34	39	226	A
42	65	58	247	50	193	68	34	38	225	A
43	55	59	248	51	192	69	37	37	226	A
44	45	50	239	41	181	57	30	34	219	A

IFRB0307 ADCP 3368

Harmonic constants for constituent O1 for deployment IFRB0307.

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	475	29	34	13	328	29	11	12	30	A
02	465	29	33	13	318	30	12	8	30	A
03	455	29	32	13	312	29	12	5	30	A
04	445	29	31	12	310	29	12	5	29	A
05	435	29	33	13	310	29	13	4	31	A
06	425	30	33	14	312	30	13	5	30	A
07	415	29	30	14	313	30	14	8	26	A
08	405	29	27	13	305	29	13	4	26	A
09	395	29	25	14	296	29	14	1	25	A
10	385	28	23	14	292	28	14	179	204	A
11	375	30	23	14	289	30	14	177	204	A
12	365	30	23	15	288	30	15	177	204	A
13	355	31	25	15	291	31	15	177	206	A
14	345	31	27	15	292	31	15	177	208	A
15	335	32	26	15	290	32	15	176	208	A
16	325	32	26	15	291	32	15	177	207	A
17	315	32	24	14	294	32	14	180	205	A
18	305	32	25	14	291	32	14	178	206	A
19	295	32	24	13	290	32	13	178	205	A
20	285	33	24	12	291	33	12	178	205	A
21	275	32	26	12	290	32	12	178	207	A
22	265	33	27	12	292	33	12	178	208	A
23	255	32	27	12	293	32	12	178	208	A
24	245	32	27	12	295	32	12	179	207	A
25	235	32	27	12	296	32	12	180	207	A
26	225	33	27	12	298	33	12	0	27	A
27	215	33	27	11	298	33	11	0	27	A
28	205	32	28	12	297	32	12	180	208	A
29	195	32	27	13	295	32	13	179	207	A
30	185	33	26	13	291	33	13	178	207	A
31	175	32	26	12	294	32	12	179	206	A
32	165	32	24	12	295	32	12	0	24	A
33	155	31	26	13	291	31	13	177	208	A
34	145	32	26	12	291	32	11	178	206	A
35	135	32	26	13	286	32	12	176	207	A
36	125	32	25	12	291	32	12	178	206	A
37	115	33	26	12	288	33	12	177	207	A
38	105	33	28	12	291	33	12	177	208	A
39	95	33	27	11	285	34	11	176	209	A
40	85	35	28	11	283	35	10	175	210	A
41	75	35	30	11	279	36	10	173	211	A
42	65	34	27	12	275	34	11	171	210	A
43	55	34	29	13	277	34	12	171	213	A
44	45	22	27	7	259	23	5	169	210	A

IFRB0307 ADCP 3368

Harmonic constants for constituent K1 for deployment IFRB0307.

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	475	27	279	13	191	27	13	1	279	A
02	465	27	276	13	184	27	13	179	97	A
03	455	26	273	12	183	26	12	180	93	A
04	445	26	272	13	182	26	13	1	271	A
05	435	26	270	14	182	26	13	1	270	A
06	425	28	269	14	183	28	14	3	267	A
07	415	28	269	14	182	28	14	2	269	A
08	405	28	269	15	177	28	15	178	90	A
09	395	28	268	17	172	28	16	175	91	A
10	385	29	267	17	172	29	17	176	89	A
11	375	29	267	17	172	29	17	175	90	A
12	365	29	267	17	169	29	17	173	91	A
13	355	29	268	17	164	29	17	168	94	A
14	345	30	267	17	166	30	16	171	92	A
15	335	30	266	17	169	30	17	174	90	A
16	325	30	265	17	171	30	17	176	87	A
17	315	30	266	16	173	30	16	178	87	A
18	305	31	266	16	176	31	16	0	266	A
19	295	30	267	16	175	30	16	179	88	A
20	285	30	267	17	173	30	17	177	88	A
21	275	29	267	17	173	30	17	176	89	A
22	265	29	268	17	170	29	17	173	92	A
23	255	29	267	17	169	29	17	173	91	A
24	245	28	268	17	169	28	17	172	93	A
25	235	28	268	17	171	28	17	173	93	A
26	225	28	268	18	167	28	17	168	96	A
27	215	28	269	18	168	28	17	168	96	A
28	205	28	269	17	169	28	17	171	94	A
29	195	28	269	18	170	28	17	171	94	A
30	185	28	268	17	171	28	17	173	92	A
31	175	29	267	17	173	29	17	176	90	A
32	165	29	266	16	173	29	16	177	88	A
33	155	30	267	17	174	30	16	178	88	A
34	145	31	266	16	175	31	16	179	86	A
35	135	29	265	16	173	29	16	178	86	A
36	125	30	264	15	169	30	14	177	86	A
37	115	31	266	15	171	31	15	176	88	A
38	105	30	264	16	169	30	16	176	86	A
39	95	31	263	16	169	31	16	177	85	A
40	85	32	261	16	172	32	16	0	261	A
41	75	30	261	17	170	30	17	179	82	A
42	65	31	259	17	167	31	17	178	81	A
43	55	29	264	16	167	29	16	175	87	A
44	45	26	262	12	150	26	11	168	87	A

Deployment Id: NWFB0307

Latitude: 61°24.890'N

Longitude: 008°16.930'W

Echo sounding depth: 822m

Bottom depth corr.: 813m

Time of deployment: 05/07 -2003 1317UTC

Time of recovery: 12/06 - 2004 2045UTC

ADCP:

Instrument no.: RDI ADCP 1642

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 807m (corr.)

Time of first data: 05/07 - 2003 1400UTC

Time of last data: 12/06 - 2004 2020UTC

Sample interval: 20 min

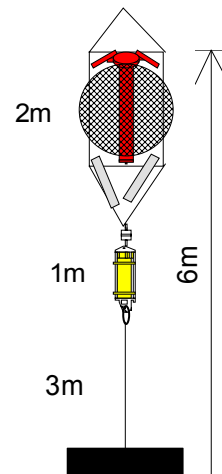
No. of ensembles: 24716

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 771m (corr.)

No. of bins: 32



Micro Cat:

Instrument no.: 0982

Height above bottom: 5m

Time of first data: 05/07 - 2003 1335UTC

Time of last data: 26/05 - 2004 1935UTC

Sample interval: 5 min

No. of ensembles: 93961

Instrument depth: 808m

NWFB0307 ADCP 1642

Error statistics for deployment: NWFB0307 updated 2004/11/03

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 17 by HS in Okt 2004
 Intensity edited up to and including bin 17 by HS in Okt 2004

Total number of ensembles: 24716
 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: 6

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	332	1	325	2	1	0	0	0	0	0	0	0	0
2	1	223	1	217	3	0	0	0	0	0	0	0	0	0
3	0	456	2	418	19	0	0	0	0	0	0	0	0	0
4	0	515	2	467	18	4	0	0	0	0	0	0	0	0
5	2	499	2	447	24	0	1	0	0	0	0	0	0	0
6	0	393	2	336	21	5	0	0	0	0	0	0	0	0
7	0	423	2	381	13	4	1	0	0	0	0	0	0	0
8	0	516	2	429	36	5	0	0	0	0	0	0	0	0
9	0	720	3	598	49	8	0	0	0	0	0	0	0	0
10	0	776	3	594	60	10	5	0	2	0	0	0	0	0
11	0	714	3	597	44	5	2	0	1	0	0	0	0	0
12	0	573	2	470	30	1	1	0	2	0	1	0	0	0
13	0	647	3	484	32	8	4	1	2	1	1	0	0	0
14	0	934	4	565	48	18	7	3	12	3	0	1	0	0
15	0	1510	6	687	101	31	25	18	21	8	1	1	0	0
16	0	2791	11	973	198	85	33	30	53	19	10	0	0	0
17	0	4566	18	1118	321	151	91	58	104	43	7	5	0	0

NWFB0307 ADCP 1642

Deployment: NWFB0307 updated 2004/11/22
Instrument no.: 1642
Instrument freq.: 75
Latitude: 61 24.890 N
Longitude: 08 16.930 W
Bottom depth: 813
Instrument depth: 807
Center depth of first bin: 771
Bin length: 25
Number of bins: 17
Number of first ensemble: 271
Time of first ensemble: 2003 07 05 14 00
Number of last ensemble: 24986
Time of last ensemble: 2004 06 12 20 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	771	42	936	931	300	987
2	746	67	1003	1000	303	991
3	721	92	1030	1026	306	982
4	696	117	1035	1031	307	979
5	671	142	1026	1023	308	980
6	646	167	996	991	309	984
7	621	192	926	917	311	983
8	596	217	805	787	313	979
9	571	242	645	612	316	971
10	546	267	485	426	319	969
11	521	292	358	268	322	971
12	496	317	279	159	323	977
13	471	342	237	93	324	974
14	446	367	217	52	325	962
15	421	392	212	29	319	939
16	396	417	217	25	294	887
17	371	442	229	39	276	815

NWFB0307 ADCP 1642

Deployment: NWFB0307

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  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160  170  180  
-----|-----|-----  
1| 771| 987 987 987 987 984 966 922 814 615 345 121 25 3 0 0 0 0 0  
2| 746| 991 991 991 991 989 979 952 888 759 547 277 83 13 1 0 0 0 0  
3| 721| 982 982 982 982 980 971 948 893 788 612 355 125 20 1 0 0 0 0  
4| 696| 979 979 979 979 978 969 947 896 795 622 369 130 21 1 0 0 0 0  
5| 671| 980 980 980 980 979 969 945 888 782 599 346 125 19 1 0 0 0 0  
6| 646| 984 984 983 981 977 965 928 847 722 529 293 105 16 1 0 0 0 0  
7| 621| 982 979 974 965 949 911 838 724 586 409 218 70 11 0 0 0 0 0  
8| 596| 975 959 934 896 839 761 661 542 409 262 122 32 4 0 0 0 0 0  
9| 571| 955 905 830 735 641 543 442 337 227 118 43 9 1 0 0 0 0 0  
10| 546| 928 820 675 534 419 324 232 151 83 36 10 2 0 0 0 0 0 0  
11| 521| 899 715 513 345 227 144 84 44 18 5 2 1 0 0 0 0 0 0  
12| 496| 868 624 379 197 97 46 20 8 4 1 0 0 0 0 0 0 0 0  
13| 471| 839 547 277 113 37 11 4 2 1 0 0 0 0 0 0 0 0 0  
14| 446| 808 489 221 76 18 4 1 0 0 0 0 0 0 0 0 0 0 0  
15| 421| 776 453 205 72 17 3 0 0 0 0 0 0 0 0 0 0 0 0  
16| 396| 731 433 206 81 24 6 1 0 0 0 0 0 0 0 0 0 0 0  
17| 371| 683 419 212 95 36 11 4 1 0 0 0 0 0 0 0 0 0 0  
-----|-----|-----
```

NWFB0307 ADCP 1642

Harmonic constants for constituent M2 for deployment NWFB0307.

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	771	25	41	17	303	26	17	171	227	A
02	746	29	40	17	295	30	16	168	227	A
03	721	30	44	16	290	31	14	165	230	A
04	696	30	48	14	282	31	11	162	235	A
05	671	29	55	14	269	31	7	156	241	A
06	646	28	70	15	248	32	0	151	249	C
07	621	34	94	17	233	36	10	158	267	C
08	596	37	115	22	224	38	20	165	287	C
09	571	32	151	24	195	38	15	34	166	C
10	546	42	192	40	161	56	15	43	177	A
11	521	58	209	63	147	73	44	50	174	A
12	496	68	218	80	143	85	62	61	165	A
13	471	71	224	91	142	92	69	76	153	A
14	446	71	230	96	143	96	70	85	147	A
15	421	69	237	98	146	98	69	91	145	A
16	396	69	242	100	150	100	69	93	148	A
17	371	70	246	100	153	100	70	94	150	A

Harmonic constants for constituent S2 for deployment NWFB0307.

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	771	14	104	14	21	15	13	41	67	A
02	746	17	104	14	20	17	14	15	91	A
03	721	17	111	13	16	17	13	172	297	A
04	696	15	121	11	4	16	9	153	317	A
05	671	12	144	7	346	14	2	150	330	A
06	646	17	173	5	310	17	4	166	350	C
07	621	22	190	4	311	22	3	175	9	C
08	596	23	204	3	305	23	3	179	24	C
09	571	24	232	5	225	25	1	11	232	A
10	546	25	259	16	212	27	10	29	247	A
11	521	27	282	28	213	32	22	49	243	A
12	496	30	295	34	215	35	29	62	239	A
13	471	29	302	37	218	37	29	80	225	A
14	446	26	302	37	221	38	26	78	229	A
15	421	24	293	36	224	38	22	70	236	A
16	396	27	294	37	221	38	25	68	236	A
17	371	27	300	35	220	36	26	74	232	A

NWFB0307 ADCP 1642

Harmonic constants for constituent N2 for deployment NWFB0307.

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	771	7	68	5	291	8	3	150	259	A
02	746	7	64	5	283	8	3	149	255	A
03	721	8	62	4	294	8	3	161	249	A
04	696	9	61	3	308	9	3	172	243	A
05	671	11	60	4	299	11	3	169	243	A
06	646	13	62	4	279	14	2	165	245	A
07	621	15	62	7	261	16	2	156	246	A
08	596	17	72	10	268	19	2	151	256	A
09	571	17	88	13	291	21	4	144	276	A
10	546	11	118	8	275	14	3	146	290	C
11	521	11	180	6	160	12	2	26	176	A
12	496	13	214	15	139	16	12	58	164	A
13	471	13	223	19	138	19	13	84	142	A
14	446	13	224	20	138	20	13	86	141	A
15	421	15	231	21	142	21	15	89	142	A
16	396	16	230	23	143	23	16	86	146	A
17	371	17	223	24	147	24	16	74	158	A

Harmonic constants for constituent O1 for deployment NWFB0307.

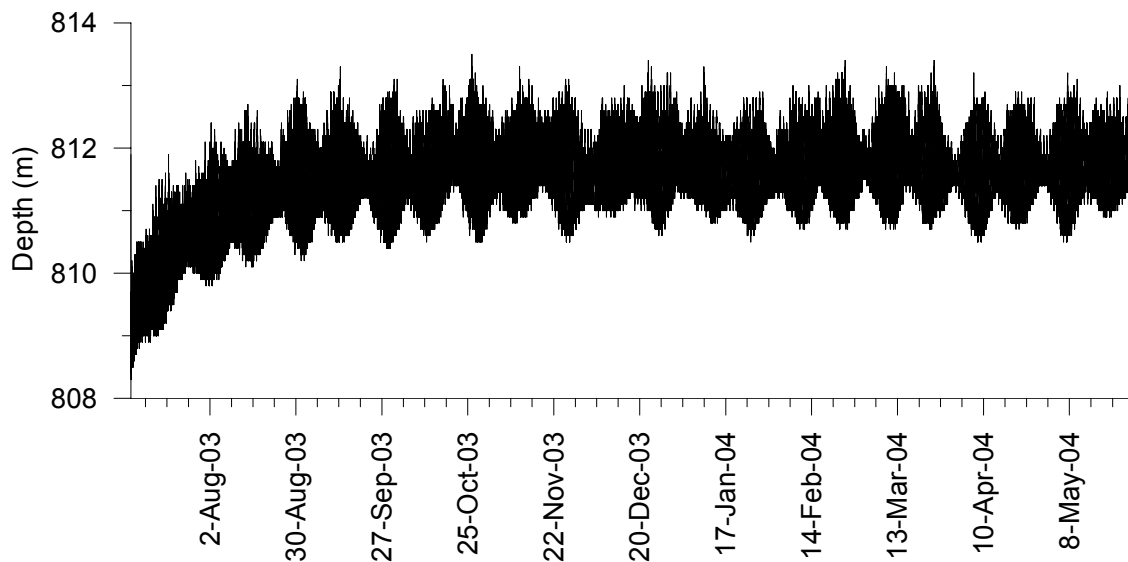
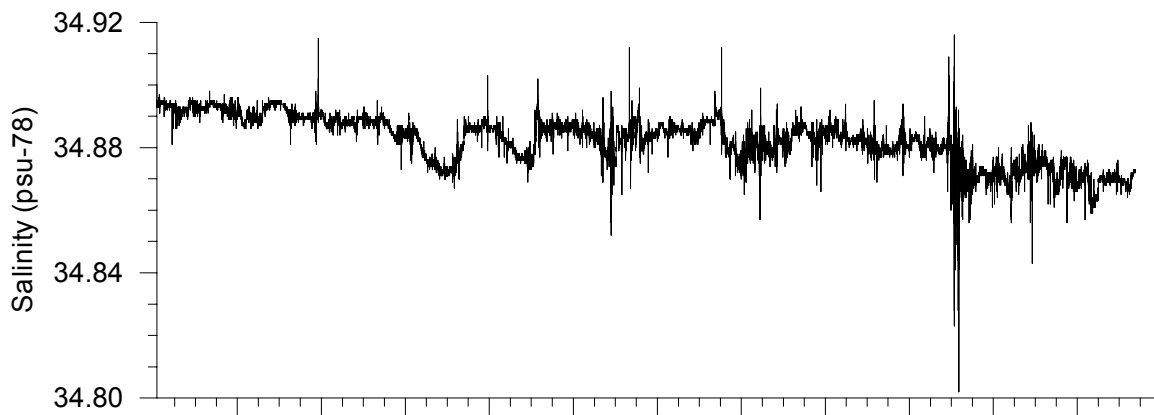
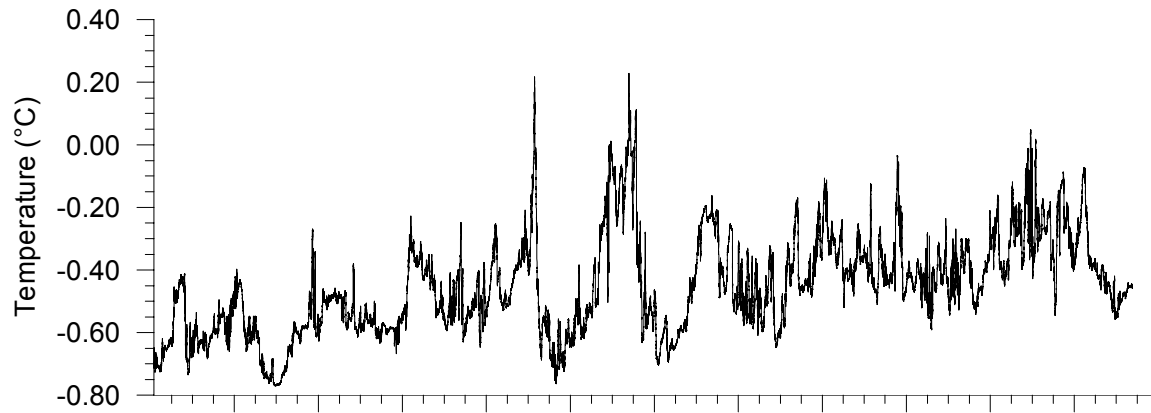
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	27	278	11	96	29	0	157	98	C
02	746	30	279	14	97	33	0	155	99	C
03	721	30	279	16	95	34	1	152	98	C
04	696	31	280	16	94	34	1	153	98	C
05	671	32	284	17	91	36	3	153	101	C
06	646	38	289	20	92	43	5	153	105	C
07	621	46	294	27	99	53	6	150	111	C
08	596	48	301	38	107	60	7	142	116	C
09	571	42	309	39	116	57	6	138	123	C
10	546	36	315	33	125	49	4	137	130	C
11	521	30	316	30	128	42	3	135	132	C
12	496	24	318	25	127	35	3	134	133	C
13	471	22	327	21	131	30	4	137	139	C
14	446	24	331	18	140	30	3	144	147	C
15	421	26	336	19	144	32	3	144	152	C
16	396	29	331	21	145	36	2	145	149	C
17	371	32	325	23	147	40	1	144	145	A

NWFB0307 ADCP 1642

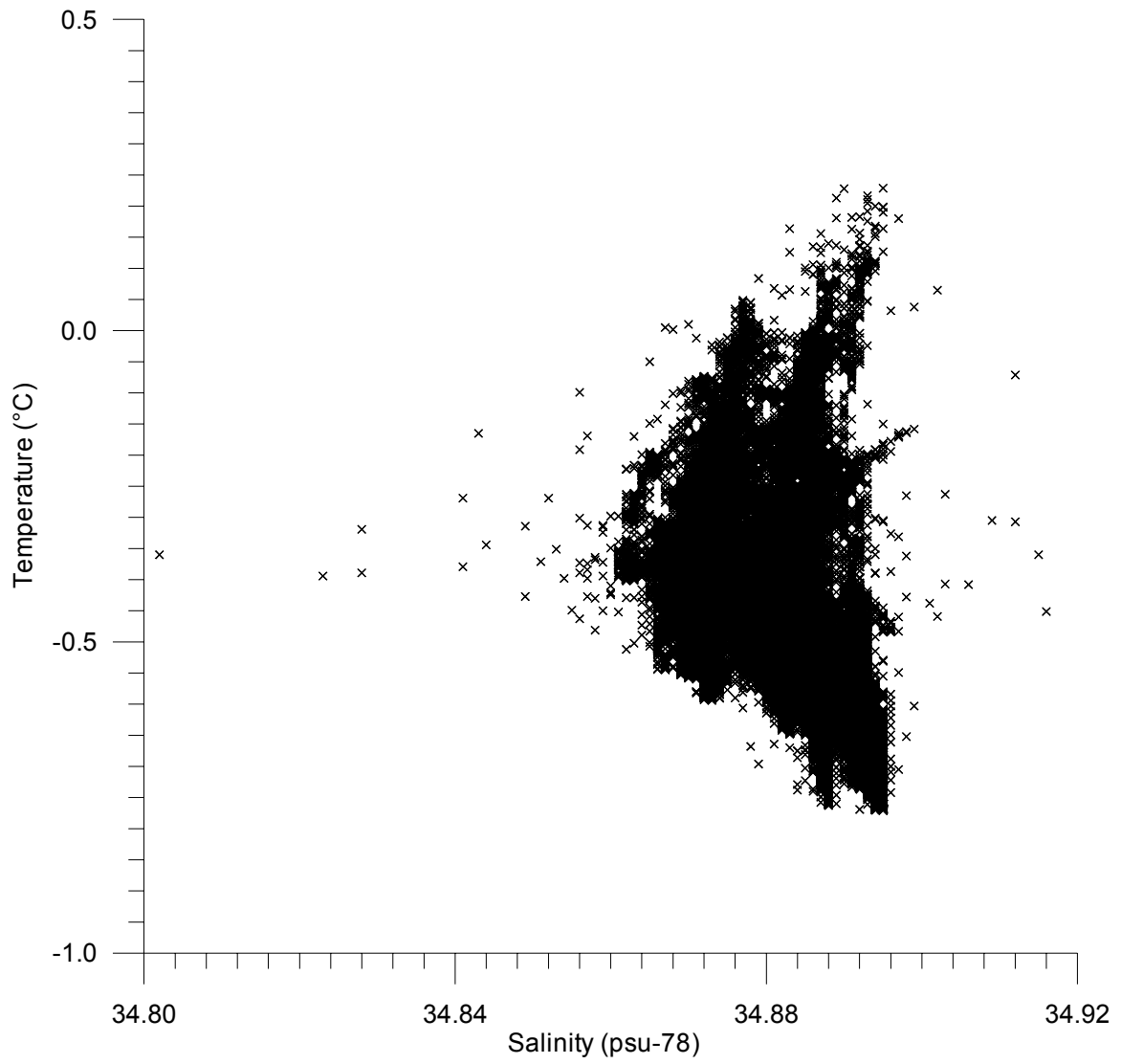
Harmonic constants for constituent K1 for deployment NWFB0307.

Bin	Depth m	E-ampl mm/sec	E-gphl deg	N-ampl mm/sec	N-gphl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	23	233	8	51	24	0	161	53	C
02	746	25	231	11	50	28	0	157	51	C
03	721	27	232	13	58	30	1	155	53	A
04	696	27	231	13	57	30	1	155	52	A
05	671	28	236	15	53	32	1	153	56	C
06	646	34	244	17	62	38	1	153	64	C
07	621	44	250	23	67	49	1	152	69	C
08	596	46	254	31	72	56	1	146	73	C
09	571	44	255	33	76	55	1	143	75	A
10	546	37	255	34	77	50	1	137	76	A
11	521	32	256	31	77	45	1	135	76	A
12	496	26	262	29	81	39	0	132	81	C
13	471	21	269	26	88	33	0	129	88	C
14	446	16	276	23	94	28	1	124	95	C
15	421	9	281	22	95	23	1	111	95	C
16	396	2	269	23	89	23	0	95	89	C
17	371	8	85	19	95	21	1	68	93	C

NWFB0307
MicroCat 0982
(Salinity has not been quality controlled)



NWFB0307
MicroCat 0982
(Salinity has not been quality controlled)



Deployment Id: NWFC0307

Latitude: 61°23.466'N

Longitude: 008°19.045'W

Echo sounding depth: 844m

Bottom depth corr.: 835m

Time of deployment: 05/07 -2003 1451UTC

Time of recovery: 01/11 - 2003 1254UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 829m (corr.)

Time of first data: 05/07 - 2003 1520UTC

Time of last data: 01/11 - 2003 1240UTC

Sample interval: 20 min

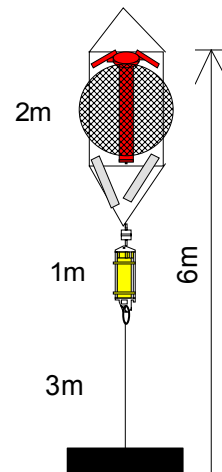
No. of ensembles: 8561

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 793m (corr.)

No. of bins: 32



NWFC0307 ADCP 1285

Error statistics for deployment: NWFC0307 updated 2004/11/03

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 25 by HS in Okt 2004
 Intensity edited up to and including bin 25 by HS in Okt 2004

Total number of ensembles: 8561
 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	0	328	4	294	14	2	0	0	0	0	0	0	0	0
2	0	152	2	146	1	0	1	0	0	0	0	0	0	0
3	8	187	2	170	7	1	0	0	0	0	0	0	0	0
4	1	423	5	291	38	10	4	2	0	0	0	0	0	0
5	1	839	10	447	88	28	11	6	8	0	0	0	0	0
6	0	1140	13	568	114	44	29	6	8	1	0	0	0	0
7	0	1525	18	715	181	76	31	12	6	0	0	0	0	0
8	0	1447	17	717	179	55	27	11	7	0	0	0	0	0
9	0	1156	14	600	153	46	16	7	2	0	0	0	0	0
10	0	738	9	463	87	21	7	2	0	0	0	0	0	0
11	0	493	6	341	46	11	4	1	1	0	0	0	0	0
12	0	373	4	283	25	6	3	2	0	0	0	0	0	0
13	0	283	3	219	25	2	2	0	0	0	0	0	0	0
14	0	408	5	323	28	3	5	0	0	0	0	0	0	0
15	0	377	4	301	26	2	2	2	0	0	0	0	0	0
16	0	422	5	338	21	6	3	1	1	0	0	0	0	0
17	0	384	4	303	23	6	1	0	2	0	0	0	0	0
18	0	401	5	315	32	1	2	1	1	0	0	0	0	0
19	0	409	5	339	25	5	0	1	0	0	0	0	0	0
20	1	434	5	349	28	7	2	0	0	0	0	0	0	0
21	1	691	8	452	47	13	6	2	4	3	0	0	0	0
22	0	1329	16	569	104	37	15	6	17	11	2	0	0	0
23	2	2352	27	595	153	53	37	26	34	18	12	6	0	0
24	0	3314	39	652	200	73	39	23	34	35	12	16	2	2
25	0	3983	47	602	190	68	37	34	56	33	12	20	6	6

NWFC0307 ADCP 1285

Deployment: NWFC0307 updated 2004/11/03
Instrument no.: 1285
Instrument freq.: 75
Latitude: 61 23.466 N
Longitude: 08 19.045 W
Bottom depth: 835
Instrument depth: 829
Center depth of first bin: 793
Bin length: 25
Number of bins: 25
Number of first ensemble: 275
Time of first ensemble: 2003 07 05 15 20
Number of last ensemble: 8835
Time of last ensemble: 2003 11 01 12 40
Time between ensembles (min.): 20
All directions have been corrected by adding: -12.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	793	42	1090	1082	300	962
2	768	67	1138	1130	303	982
3	743	92	1134	1127	305	978
4	718	117	1117	1110	306	951
5	693	142	1078	1069	306	902
6	668	167	984	972	306	867
7	643	192	791	745	309	822
8	618	217	589	478	314	831
9	593	242	417	250	322	865
10	568	267	293	87	346	914
11	543	292	227	65	80	942
12	518	317	211	92	105	956
13	493	342	208	106	113	967
14	468	367	207	110	115	952
15	443	392	205	111	116	956
16	418	417	204	110	117	951
17	393	442	202	109	118	955
18	368	467	200	107	118	953
19	343	492	198	105	119	952
20	318	517	196	103	120	949
21	293	542	197	102	120	919
22	268	567	198	101	122	845
23	243	592	201	102	123	725
24	218	617	201	102	124	613
25	193	642	198	101	125	535

NWFC0307 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC0307.

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	793	16	98	23	293	27	3	124	288	A
02	768	17	93	23	295	28	5	126	287	A
03	743	17	93	27	291	32	5	123	286	A
04	718	19	95	32	294	37	5	121	289	A
05	693	32	105	42	310	51	11	126	301	A
06	668	58	117	64	321	84	18	132	310	A
07	643	87	132	64	328	107	15	144	318	A
08	618	91	144	39	334	98	7	157	325	A
09	593	78	163	1	313	78	1	179	343	C
10	568	65	196	48	147	75	32	33	180	A
11	543	74	226	77	145	81	69	54	177	A
12	518	75	238	89	152	89	75	79	161	A
13	493	73	246	91	161	92	72	80	169	A
14	468	68	255	93	170	93	68	81	177	A
15	443	68	264	94	177	94	68	85	181	A
16	418	70	270	97	183	97	69	86	185	A
17	393	68	274	96	188	96	68	85	191	A
18	368	67	278	95	192	96	66	84	196	A
19	343	68	281	96	194	96	68	87	196	A
20	318	70	284	95	196	95	70	87	198	A
21	293	70	287	97	198	97	70	88	199	A
22	268	72	287	97	200	97	72	85	204	A
23	243	73	291	99	203	99	73	87	205	A
24	218	75	297	101	206	101	75	92	204	A
25	193	77	303	104	212	104	77	92	210	A

Harmonic constants for constituent S2 for deployment NWFC0307.

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	793	8	130	7	336	10	2	136	322	A
02	768	8	134	7	334	11	2	139	323	A
03	743	10	123	11	344	14	5	131	326	A
04	718	9	126	13	340	15	4	121	331	A
05	693	11	149	14	334	17	1	128	332	A
06	668	18	159	20	347	27	2	132	343	A
07	643	31	170	21	359	37	3	145	353	A
08	618	31	182	13	11	33	2	157	4	A
09	593	22	205	7	283	22	7	4	206	C
10	568	24	257	17	205	27	12	32	241	A
11	543	32	283	31	197	32	30	33	252	A
12	518	32	289	35	195	36	32	108	179	A
13	493	30	293	35	200	35	30	101	191	A
14	468	27	296	33	203	33	27	96	198	A
15	443	25	299	30	211	30	25	86	214	A
16	418	24	304	30	217	30	24	84	222	A
17	393	22	309	30	221	30	22	86	224	A
18	368	21	315	30	223	30	21	93	221	A
19	343	21	318	30	228	30	21	90	229	A
20	318	19	322	30	232	30	19	90	231	A
21	293	21	325	28	237	29	21	86	240	A
22	268	22	327	30	240	30	22	85	244	A
23	243	26	329	29	241	29	26	83	247	A
24	218	27	344	30	239	33	25	123	213	A
25	193	27	345	30	235	33	23	126	208	A

NWFC0307 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC0307.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	6	120	5	250	7	3	145	282	C
02	768	7	118	5	255	8	3	145	284	C
03	743	6	89	4	246	7	1	145	262	C
04	718	6	74	8	248	10	1	129	250	C
05	693	12	67	13	273	17	4	133	261	A
06	668	20	72	26	307	29	14	122	290	A
07	643	37	100	34	314	48	15	139	295	A
08	618	41	115	28	330	47	14	147	306	A
09	593	25	136	17	347	30	7	147	325	A
10	568	23	157	12	12	25	6	156	343	A
11	543	10	164	5	120	10	3	20	158	A
12	518	7	175	8	146	10	3	51	158	A
13	493	8	206	11	141	12	7	66	154	A
14	468	10	211	14	132	14	10	76	141	A
15	443	11	226	16	136	16	11	91	135	A
16	418	12	242	18	154	18	12	87	156	A
17	393	13	245	19	161	19	13	82	166	A
18	368	14	249	22	165	22	14	83	170	A
19	343	14	260	25	171	25	14	89	172	A
20	318	17	262	28	176	28	17	87	178	A
21	293	20	269	29	180	29	20	89	180	A
22	268	24	273	31	181	31	23	94	178	A
23	243	20	268	32	187	32	20	81	193	A
24	218	18	285	35	193	35	18	91	192	A
25	193	20	281	36	193	36	20	88	194	A

Harmonic constants for constituent O1 for deployment NWFC0307.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	6	292	10	160	11	4	118	148	A
02	768	8	293	9	160	11	5	129	141	A
03	743	9	290	10	158	12	5	131	137	A
04	718	8	301	12	163	13	5	120	151	A
05	693	10	337	15	165	18	1	124	162	A
06	668	23	333	21	164	31	3	138	158	A
07	643	32	335	26	169	41	5	141	161	A
08	618	30	352	26	172	40	0	139	172	C
09	593	28	1	22	185	36	1	142	183	A
10	568	23	16	23	193	32	1	135	194	C
11	543	15	27	16	196	22	2	133	201	C
12	518	13	25	15	202	19	1	131	203	C
13	493	11	25	13	204	17	0	132	205	C
14	468	11	28	16	203	20	1	126	205	C
15	443	11	15	13	202	17	1	129	199	A
16	418	10	17	11	193	15	1	132	195	C
17	393	11	18	9	194	14	0	139	196	C
18	368	12	19	10	194	15	1	140	197	C
19	343	13	20	11	196	16	1	140	198	C
20	318	14	16	12	198	18	0	139	197	A
21	293	12	18	11	191	17	1	138	195	C
22	268	14	23	10	190	17	2	145	199	C
23	243	13	28	7	208	15	0	150	208	C
24	218	12	24	8	217	15	2	147	208	A
25	193	14	358	6	227	14	4	164	182	A

NWFC0307 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC0307.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	793	4	199	15	38	16	1	103	37	A
02	768	3	194	16	35	16	1	101	35	A
03	743	4	203	17	36	17	1	102	36	A
04	718	4	210	17	38	18	1	104	37	A
05	693	3	226	20	52	21	0	99	51	A
06	668	17	264	29	64	33	5	119	69	C
07	643	36	258	35	62	49	7	136	70	C
08	618	42	244	35	69	54	2	140	66	A
09	593	37	240	32	68	49	3	139	63	A
10	568	19	243	20	58	28	1	135	61	C
11	543	11	258	15	61	19	3	126	67	C
12	518	13	269	14	76	19	2	132	81	C
13	493	15	268	16	79	22	2	132	83	C
14	468	15	263	17	78	23	1	132	80	C
15	443	16	267	15	69	22	3	136	79	C
16	418	14	273	14	59	19	6	136	76	C
17	393	14	278	13	61	19	6	137	80	C
18	368	14	282	13	61	18	7	136	82	C
19	343	12	281	13	70	17	5	134	85	C
20	318	13	275	11	67	16	4	141	84	C
21	293	15	275	11	70	18	4	144	87	C
22	268	16	270	12	68	20	4	144	83	C
23	243	15	283	11	95	19	1	144	100	C
24	218	13	293	9	78	15	5	145	101	C
25	193	10	301	6	124	12	0	148	122	A

Deployment Id: NWFC0311

Latitude: 61°23.570'N

Longitude: 008°18.877'W

Echo sounding depth: 845m

Bottom depth corr.: 836m

Time of deployment: 07/11 -2003 0403UTC

Time of recovery: 12/06 - 2004 2045UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75kHz

Height above bottom: 6m

Depth: 830m (corr.)

Time of first data: 07/11 - 2003 0440UTC

Time of last data: 12/06 - 2004 2100UTC

Sample interval: 20 min

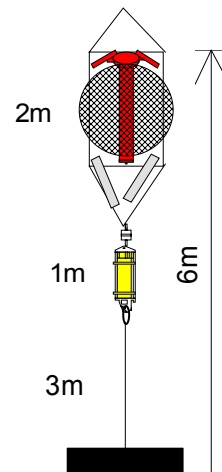
No. of ensembles: 15746

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 794m (corr.)

No. of bins: 32



NWFC0311 ADCP 1285

Error statistics for deployment: NWFC0311 updated 2004/11/03

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 25 by HS in Okt 2004
 Intensity edited up to and including bin 25 by HS in Okt 2004

Total number of ensembles: 15746
 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	0	432	3	386	23	0	0	0	0	0	0	0	0	0
2	0	181	1	175	3	0	0	0	0	0	0	0	0	0
3	5	313	2	283	12	2	0	0	0	0	0	0	0	0
4	0	458	3	351	30	10	0	1	2	0	0	0	0	0
5	0	831	5	583	80	24	4	0	0	0	0	0	0	0
6	0	969	6	655	84	31	6	2	3	0	0	0	0	0
7	0	1225	8	809	116	39	8	3	3	0	0	0	0	0
8	0	1217	8	846	120	32	6	2	0	0	0	0	0	0
9	0	923	6	662	85	20	6	0	1	0	0	0	0	0
10	0	706	4	524	51	15	5	3	0	0	0	0	0	0
11	0	646	4	503	42	14	3	1	0	0	0	0	0	0
12	0	713	5	562	58	7	1	2	0	0	0	0	0	0
13	0	756	5	584	57	11	3	1	1	0	0	0	0	0
14	0	889	6	661	63	13	8	1	2	1	0	0	0	0
15	0	872	6	649	63	14	6	4	0	1	0	0	0	0
16	0	1030	7	720	88	20	5	3	4	1	0	0	0	0
17	0	935	6	642	80	17	5	7	4	0	0	0	0	0
18	0	1077	7	701	72	22	7	0	9	4	1	0	0	0
19	1	1905	12	932	136	34	17	10	24	10	6	0	0	0
20	1	2962	19	1030	185	61	25	18	44	21	19	3	0	0
21	6	4215	27	923	222	72	47	34	70	53	24	9	1	1
22	4	5227	33	975	207	105	72	30	107	68	29	11	3	3
23	9	6168	39	923	245	109	92	50	126	76	30	15	6	6
24	12	7122	45	844	235	108	67	55	122	73	39	18	15	15
25	11	8112	52	851	205	98	73	36	95	65	34	32	24	24

NWFC0311 ADCP 1285

Deployment: NWFC0311 updated 2004/11/03
Instrument no.: 1285
Instrument freq.: 75
Latitude: 61 23.570 N
Longitude: 08 18.877 W
Bottom depth: 836
Instrument depth: 830
Center depth of first bin: 794
Bin length: 25
Number of bins: 25
Number of first ensemble: 261
Time of first ensemble: 2003 11 07 04 40
Number of last ensemble: 16006
Time of last ensemble: 2004 06 12 21 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	794	42	980	975	299	973
2	769	67	1041	1038	301	989
3	744	92	1055	1052	303	980
4	719	117	1042	1039	304	971
5	694	142	991	987	305	947
6	669	167	867	858	306	938
7	644	192	670	643	308	922
8	619	217	455	389	311	923
9	594	242	310	190	315	941
10	569	267	239	69	327	955
11	544	292	211	23	57	959
12	519	317	202	51	107	955
13	494	342	202	73	116	952
14	469	367	203	86	119	944
15	444	392	205	92	121	945
16	419	417	208	98	123	935
17	394	442	211	102	126	941
18	369	467	216	106	127	932
19	344	492	218	111	128	879
20	319	517	223	117	129	812
21	294	542	228	123	129	732
22	269	567	233	126	129	668
23	244	592	238	131	128	608
24	219	617	240	132	128	548
25	194	642	242	136	129	485

NWFC0311 ADCP 1285

Deployment: NWFC0311

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.| m|      10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
-----
 1| 794| 973 973 973 972 965 938 890 802 666 488 278 106 24  3  0  0  0  0
 2| 769| 989 989 989 987 983 966 928 873 770 621 432 211 58  8  0  0  0  0
 3| 744| 980 980 980 979 973 958 920 872 780 643 471 246 69  8  1  0  0  0
 4| 719| 971 971 971 969 962 945 904 851 762 613 436 220 54  7  1  0  0  0
 5| 694| 947 946 943 937 923 892 837 767 657 500 342 171 49  8  0  0  0  0
 6| 669| 931 915 895 870 835 781 694 589 469 338 219 105 31  6  1  0  0  0
 7| 644| 893 833 771 709 638 552 442 339 245 161  90  36 10  1  0  0  0  0
 8| 619| 846 708 570 457 361 279 204 142  88  50  21  9  3  1  0  0  0  0
 9| 594| 818 580 380 251 168 111  68  37  19  9  5  3  1  0  0  0  0  0
10| 569| 802 500 261 126  65  31  14  7  4  3  2  1  0  0  0  0  0  0
11| 544| 788 452 198  74  24  7  3  1  1  0  0  0  0  0  0  0  0  0
12| 519| 771 427 180  57  12  2  0  0  0  0  0  0  0  0  0  0  0  0
13| 494| 765 424 178  64  14  2  0  0  0  0  0  0  0  0  0  0  0  0
14| 469| 756 416 181  69  20  4  0  0  0  0  0  0  0  0  0  0  0  0
15| 444| 764 422 189  76  23  4  0  0  0  0  0  0  0  0  0  0  0  0
16| 419| 755 426 192  79  27  5  0  0  0  0  0  0  0  0  0  0  0  0
17| 394| 763 434 204  85  29  7  1  0  0  0  0  0  0  0  0  0  0  0
18| 369| 761 446 211  88  32  8  1  0  0  0  0  0  0  0  0  0  0  0
19| 344| 722 421 208  90  35  9  1  0  0  0  0  0  0  0  0  0  0  0
20| 319| 672 399 201  91  33  9  1  0  0  0  0  0  0  0  0  0  0  0
21| 294| 608 374 195  89  36 10  2  0  0  0  0  0  0  0  0  0  0  0
22| 269| 558 346 185  86  36 11  2  0  0  0  0  0  0  0  0  0  0  0
23| 244| 507 321 176  86  38 13  2  1  0  0  0  0  0  0  0  0  0  0
24| 219| 456 290 161  81  37 14  3  0  0  0  0  0  0  0  0  0  0  0
25| 194| 402 256 148  75  34 14  4  0  0  0  0  0  0  0  0  0  0  0
-----

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NWFC0311 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC0311.

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	794	17	52	7	256	18	3	159	235	A
02	769	17	47	9	260	19	4	156	232	A
03	744	18	40	11	253	20	5	150	229	A
04	719	17	36	13	255	20	7	143	231	A
05	694	21	55	18	265	26	7	140	248	A
06	669	32	81	23	276	39	5	145	266	A
07	644	39	95	23	282	45	3	150	276	A
08	619	32	120	10	239	33	9	171	298	C
09	594	29	173	27	135	38	13	42	156	A
10	569	42	206	53	130	55	40	67	147	A
11	544	50	221	68	134	69	50	85	138	A
12	519	55	231	75	142	75	55	89	143	A
13	494	57	241	81	148	81	57	94	146	A
14	469	58	247	84	153	84	57	95	150	A
15	444	59	253	86	157	86	59	98	151	A
16	419	61	256	89	159	90	60	99	154	A
17	394	63	259	91	162	91	62	100	155	A
18	369	64	262	92	164	92	63	101	157	A
19	344	66	266	93	168	94	64	101	160	A
20	319	70	267	95	170	96	69	101	162	A
21	294	75	268	98	171	99	74	101	163	A
22	269	78	268	102	171	103	77	101	163	A
23	244	72	270	100	172	101	71	101	165	A
24	219	69	270	99	175	99	68	97	170	A
25	194	72	272	96	175	97	71	103	165	A

Harmonic constants for constituent S2 for deployment NWFC0311.

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	794	8	131	4	353	8	2	156	319	A
02	769	9	131	4	355	9	2	163	316	A
03	744	10	133	4	356	10	2	163	317	A
04	719	10	135	6	8	11	4	158	325	A
05	694	14	175	9	6	17	1	145	358	A
06	669	25	194	12	26	28	2	154	17	A
07	644	31	196	12	29	33	3	160	18	A
08	619	26	212	7	88	26	6	171	34	A
09	594	16	241	12	179	18	10	28	225	A
10	569	18	285	23	206	24	17	74	218	A
11	544	23	306	30	211	30	22	99	204	A
12	519	23	310	31	213	31	23	102	205	A
13	494	21	312	32	218	32	21	94	216	A
14	469	20	310	32	223	32	20	87	225	A
15	444	21	313	34	224	34	21	90	224	A
16	419	22	320	34	230	34	22	91	229	A
17	394	21	326	37	230	37	21	95	227	A
18	369	21	338	37	235	37	20	101	229	A
19	344	23	339	36	235	37	21	104	227	A
20	319	26	345	38	237	40	24	109	225	A
21	294	26	348	38	244	39	25	106	233	A
22	269	29	331	32	249	33	28	64	271	A
23	244	30	340	26	248	30	26	173	166	A
24	219	30	351	29	252	32	27	139	208	A
25	194	34	351	27	243	36	24	153	190	A

NWFC0311 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC0311.

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	794	4	66	2	124	4	2	18	73	C
02	769	3	54	1	134	3	1	7	57	C
03	744	4	47	1	196	4	0	170	226	C
04	719	4	33	1	262	4	1	172	214	A
05	694	7	62	2	293	7	1	170	244	A
06	669	11	76	6	286	12	3	153	263	A
07	644	15	85	9	296	17	4	152	272	A
08	619	19	90	10	298	22	4	154	276	A
09	594	14	99	1	292	14	0	174	279	A
10	569	9	149	8	120	12	3	42	136	A
11	544	12	186	15	119	17	10	60	139	A
12	519	11	200	18	123	18	11	78	129	A
13	494	10	210	18	125	18	9	86	127	A
14	469	8	225	18	137	18	8	89	137	A
15	444	10	241	19	146	19	10	93	144	A
16	419	13	245	21	154	21	13	92	153	A
17	394	13	249	20	157	20	13	92	156	A
18	369	13	254	21	155	21	13	99	149	A
19	344	14	255	21	158	21	13	98	153	A
20	319	11	265	22	160	23	11	100	156	A
21	294	11	256	18	157	18	11	100	151	A
22	269	12	263	22	165	23	12	96	161	A
23	244	14	256	27	168	27	14	88	169	A
24	219	14	260	23	159	23	14	100	153	A
25	194	9	254	18	160	18	9	93	159	A

Harmonic constants for constituent O1 for deployment NWFC0311.

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	794	24	308	14	103	27	5	151	122	C
02	769	25	303	16	116	29	2	147	121	C
03	744	27	300	18	109	32	3	147	117	C
04	719	27	302	21	120	34	1	143	121	C
05	694	37	305	27	120	46	2	144	123	C
06	669	54	313	35	129	64	2	147	132	C
07	644	67	321	47	140	82	1	145	141	C
08	619	68	328	48	152	83	3	145	150	A
09	594	60	334	42	154	73	0	145	154	A
10	569	46	336	31	153	55	1	146	155	C
11	544	36	337	26	153	44	1	144	155	C
12	519	28	335	26	148	38	2	138	152	C
13	494	27	336	24	147	36	3	138	152	C
14	469	27	337	23	144	35	4	139	151	C
15	444	26	336	24	149	35	2	137	153	C
16	419	25	336	25	145	35	4	134	150	C
17	394	24	332	24	143	34	3	136	148	C
18	369	24	329	24	144	34	1	134	146	C
19	344	21	333	24	139	32	4	131	145	C
20	319	22	338	21	136	30	6	136	148	C
21	294	25	341	18	135	30	7	144	152	C
22	269	25	344	19	158	31	2	143	161	C
23	244	20	331	23	156	31	1	131	154	A
24	219	24	297	22	143	32	7	137	129	A
25	194	27	292	30	118	40	2	131	115	A

NWFC0311 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC0311.

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	794	22	262	11	73	25	1	155	80	C
02	769	22	260	11	71	25	1	154	78	C
03	744	23	264	12	75	26	2	152	82	C
04	719	24	272	14	80	28	3	151	90	C
05	694	34	278	20	88	39	3	150	96	C
06	669	47	277	30	91	56	2	148	95	C
07	644	57	271	38	91	68	0	146	91	A
08	619	56	261	38	92	67	6	146	85	A
09	594	39	257	29	86	48	4	144	80	A
10	569	26	255	22	76	34	0	140	75	A
11	544	23	257	21	75	31	1	137	76	C
12	519	21	266	23	79	31	2	132	83	C
13	494	18	275	23	84	29	3	128	88	C
14	469	14	280	23	90	27	2	122	93	C
15	444	12	285	22	88	25	3	119	92	C
16	419	11	294	24	86	26	5	114	91	C
17	394	8	300	25	84	25	5	105	87	C
18	369	9	296	27	80	28	5	105	82	C
19	344	10	280	31	74	32	4	107	76	C
20	319	14	260	37	74	39	1	110	75	C
21	294	18	256	35	76	39	0	117	76	C
22	269	14	236	28	72	31	4	117	69	A
23	244	17	222	23	84	27	10	126	69	A
24	219	23	226	25	85	32	11	133	67	A
25	194	22	241	36	58	42	1	122	59	C

Deployment Id: Nwana0307

Latitude: 62°41.992'N

Longitude: 006°04.865'W

Echo sound depth: 295m

Bottom depth corr.: 294m

Time of deployment: 04/07 -2003 2155UTC

Time of recovery: 11/06 - 2004 2007UTC

ADCP:

Instrument no.: RDI ADCP 1279

Instrument frequency: 150kHz

Height above bottom: 1m

Depth: 293m (corr.)

Time of first data: 04/07 – 2003 2200UTC

Time of last data: 11/06 – 2004 1900UTC

Sample interval: 20 min

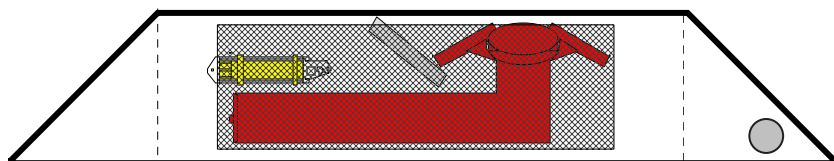
No. of ensembles: 24688

Pings per ens.: 1

Binlength: 10 m

Depth of first bin: 277m (corr.)

No. of bins: 30



NWNA0307 ADCP 1279

Error statistics for deployment: NWNA0307 updated 2004/11/23

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 23 by HS in Okt 2004
 Intensity edited up to and including bin 23 by HS in Okt 2004

Total number of ensembles: 24688
 Interval between ensembles: 20 min
 Original number of bins: 30
 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	6	3023	12	2117	302	67	15	4	3	0	0	0	0
2	4	2915	12	2030	293	72	12	4	2	0	0	0	0
3	4	2631	11	1834	260	61	12	5	3	0	0	0	0
4	1	2358	10	1581	238	56	21	5	3	0	0	0	0
5	0	2288	9	1590	228	53	13	5	1	0	0	0	0
6	1	2049	8	1452	194	37	15	4	3	0	0	0	0
7	1	1968	8	1351	177	41	15	9	2	0	1	0	0
8	2	1820	7	1219	165	40	11	5	8	0	1	0	0
9	0	1924	8	1232	186	50	17	9	6	1	0	0	0
10	1	1924	8	1276	187	59	17	3	2	0	0	0	0
11	1	1879	8	1209	202	47	19	5	1	1	0	0	0
12	0	1957	8	1277	184	47	14	9	9	0	0	0	0
13	0	2012	8	1249	196	67	13	9	4	3	0	0	0
14	4	2326	9	1421	239	73	17	5	16	0	0	0	0
15	6	2281	9	1375	231	52	27	12	13	2	0	0	0
16	2	2390	10	1410	217	74	22	13	16	4	0	0	0
17	0	3012	12	1524	303	93	39	22	24	4	0	1	1
18	2	3805	15	1617	363	119	66	34	40	11	4	0	2
19	6	4325	18	1727	443	138	68	36	65	19	3	2	0
20	7	5759	23	1824	466	180	76	60	88	32	15	4	3
21	9	7252	29	1884	550	245	105	48	89	34	22	18	5
22	6	9468	38	1851	545	258	128	69	124	50	25	30	14
23	0	12276	50	1506	540	247	122	77	133	41	10	26	32

NWNA0307 ADCP 1279

Deployment: NWNA0307 updated 2004/11/23
Instrument no.: 1279
Instrument freq.: 150
Latitude: 62 41.992 N
Longitude: 06 04.865 W
Bottom depth: 294
Instrument depth: 293
Center depth of first bin: 277
Bin length: 10
Number of bins: 23
Number of first ensemble: 223
Time of first ensemble: 2003 07 04 22 00
Number of last ensemble: 24910
Time of last ensemble: 2004 06 11 19 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	277	17	202	128	95	878
2	267	27	218	136	98	882
3	257	37	230	142	100	893
4	247	47	237	147	102	904
5	237	57	243	152	103	907
6	227	67	247	156	104	917
7	217	77	249	161	105	920
8	207	87	250	164	105	926
9	197	97	252	168	105	922
10	187	107	253	173	105	922
11	177	117	254	176	105	924
12	167	127	254	179	105	921
13	157	137	255	183	105	919
14	147	147	256	185	105	906
15	137	157	258	187	104	908
16	127	167	259	190	104	903
17	117	177	263	194	104	878
18	107	187	267	199	105	846
19	97	197	271	201	105	825
20	87	207	276	207	105	767
21	77	217	283	214	105	706
22	67	227	294	225	105	616
23	57	237	309	240	105	503

NWNA0307 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA0307.

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	277	131	297	84	179	139	69	157	129	A
02	267	146	296	99	180	156	83	156	129	A
03	257	158	296	113	181	169	95	155	131	A
04	247	167	297	121	184	178	104	155	133	A
05	237	174	299	126	186	185	110	155	134	A
06	227	179	299	128	189	188	114	157	134	A
07	217	181	301	129	192	190	116	158	135	A
08	207	182	303	128	195	190	117	159	136	A
09	197	183	305	126	197	189	116	161	137	A
10	187	182	306	124	199	187	115	162	137	A
11	177	180	308	122	202	185	114	163	139	A
12	167	179	310	120	204	184	112	163	140	A
13	157	179	311	117	206	183	110	164	141	A
14	147	177	313	114	208	181	108	165	141	A
15	137	177	314	111	210	180	106	166	142	A
16	127	175	315	110	211	179	105	167	143	A
17	117	175	317	108	213	178	103	168	144	A
18	107	173	318	107	215	175	103	168	145	A
19	97	172	319	105	217	174	102	170	145	A
20	87	174	320	103	220	176	100	171	146	A
21	77	174	323	103	223	175	101	172	148	A
22	67	177	325	104	226	178	102	172	149	A
23	57	183	327	105	230	183	104	174	150	A

Harmonic constants for constituent S2 for deployment NWNA0307.

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	277	52	338	36	226	55	32	157	172	A
02	267	56	337	42	226	60	37	155	173	A
03	257	58	338	45	227	62	39	153	175	A
04	247	59	338	46	226	64	40	151	177	A
05	237	61	338	47	227	65	41	153	176	A
06	227	62	339	47	228	66	42	154	176	A
07	217	62	341	47	229	66	41	154	178	A
08	207	64	344	45	232	67	40	157	178	A
09	197	64	345	44	234	67	39	159	177	A
10	187	64	347	43	235	67	38	159	179	A
11	177	64	348	42	237	66	37	160	179	A
12	167	63	349	40	238	66	36	161	180	A
13	157	64	351	40	240	66	36	162	181	A
14	147	63	352	39	241	65	36	162	181	A
15	137	63	353	37	244	65	34	164	182	A
16	127	61	354	36	244	63	33	164	182	A
17	117	61	355	35	248	63	33	167	182	A
18	107	62	355	35	250	63	33	168	181	A
19	97	61	358	33	253	62	31	170	183	A
20	87	61	358	33	256	62	32	171	183	A
21	77	61	0	31	258	62	30	172	184	A
22	67	58	1	30	263	58	29	175	184	A
23	57	56	4	28	266	57	27	175	186	A

NWNA0307 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA0307.

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	277	25	260	18	135	28	13	149	96	A
02	267	28	263	21	138	32	16	148	100	A
03	257	29	266	24	141	34	17	143	107	A
04	247	32	266	25	146	35	19	148	104	A
05	237	33	269	25	153	36	21	151	107	A
06	227	35	272	27	157	38	22	151	110	A
07	217	36	276	27	161	39	23	153	113	A
08	207	38	279	26	165	40	23	156	112	A
09	197	37	283	25	169	39	22	158	115	A
10	187	37	285	25	170	40	21	157	118	A
11	177	37	287	24	173	39	21	159	119	A
12	167	37	288	24	177	38	21	161	119	A
13	157	37	290	24	179	38	21	161	120	A
14	147	36	290	22	181	37	20	165	118	A
15	137	37	290	23	183	38	21	165	118	A
16	127	37	292	23	185	38	22	164	121	A
17	117	39	292	22	186	39	21	168	119	A
18	107	39	294	22	188	39	21	168	120	A
19	97	38	296	23	189	39	22	165	124	A
20	87	38	300	24	191	39	22	163	130	A
21	77	35	300	22	195	36	21	166	128	A
22	67	33	303	22	206	33	22	172	128	A
23	57	37	308	23	218	37	23	0	308	A

Harmonic constants for constituent O1 for deployment NWNA0307.

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	277	25	39	8	287	25	8	172	221	A
02	267	26	39	10	283	26	9	169	223	A
03	257	26	39	11	282	26	10	167	224	A
04	247	26	39	12	276	27	10	163	226	A
05	237	26	39	12	280	27	10	165	225	A
06	227	26	39	12	281	27	11	165	225	A
07	217	26	41	12	274	27	9	163	227	A
08	207	26	40	13	273	27	10	161	228	A
09	197	25	39	14	275	27	11	159	228	A
10	187	27	40	14	272	28	10	160	228	A
11	177	27	39	15	273	28	11	158	228	A
12	167	26	38	16	273	28	12	155	230	A
13	157	27	39	16	271	29	12	156	229	A
14	147	28	37	16	269	30	12	156	227	A
15	137	30	37	17	269	32	12	157	227	A
16	127	30	38	17	270	32	13	157	227	A
17	117	29	37	17	271	31	13	157	227	A
18	107	29	35	17	269	31	13	157	225	A
19	97	30	32	18	270	32	14	158	222	A
20	87	30	32	17	267	32	13	157	222	A
21	77	28	32	18	274	30	15	158	224	A
22	67	32	26	16	277	32	15	168	212	A
23	57	29	31	15	272	30	13	163	218	A

NWNA0307 ADCP 1279

Harmonic constants for constituent K1 for deployment NWNA0307.

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	277	35	269	20	191	35	19	10	264	A
02	267	38	275	23	185	38	23	180	96	A
03	257	41	276	24	183	41	24	177	98	A
04	247	42	274	24	177	42	24	175	97	A
05	237	42	274	24	178	42	23	175	97	A
06	227	42	275	23	176	42	23	174	98	A
07	217	43	273	23	176	43	23	174	96	A
08	207	43	273	24	176	43	23	175	96	A
09	197	43	274	24	176	43	24	174	98	A
10	187	42	272	25	175	42	25	174	96	A
11	177	41	273	25	176	41	25	174	96	A
12	167	39	273	25	176	39	25	173	98	A
13	157	39	275	25	176	39	25	170	101	A
14	147	39	274	25	174	39	25	170	100	A
15	137	40	273	25	175	40	24	172	98	A
16	127	38	273	24	174	39	24	171	99	A
17	117	38	272	25	174	38	24	171	97	A
18	107	38	267	24	172	38	23	175	91	A
19	97	39	267	25	171	39	24	174	91	A
20	87	36	264	24	171	36	24	177	85	A
21	77	37	260	19	172	37	19	1	260	A
22	67	33	264	20	179	33	20	5	261	A
23	57	32	262	21	178	32	21	7	257	A

Deployment Id: NWNB0307

Latitude: 62°55.025'N

Longitude: 006°05.115'W

Echo sounding depth: 976m

Bottom depth corr.: 955m

Time of deployment: 05/07 -2003 0003UTC

Time of recovery: 11/06 - 2004 2209UTC

ADCP:

Instrument no.: RDI ADCP 1577

Instrument frequency: 75kHz

Height above bottom: 254m (corr.)

Depth: 701m (corr.)

Time of first data: 05/07 - 2003 0020UTC

Time of last data: 11/06 - 2004 2040UTC

Sample interval: 20 min

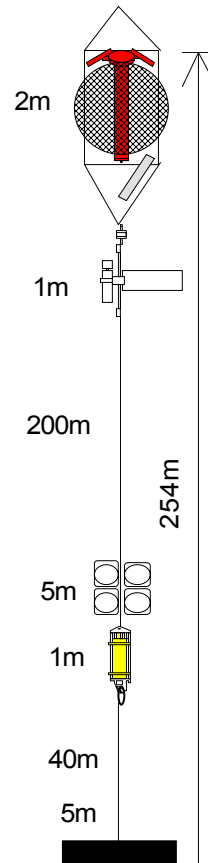
No. of ensembles: 24686

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 665m (corr.)

No. of bins: 32



Aanderaa:

Instrument no.: RCM7 9494

Height above bottom: 252 m

Depth: 703m (corr.)

Time of first data: 05/07 – 2003 0130UTC

Time of last data: 11/06 – 2004 1930UTC

Sample interval: 60 min

No. of ensembles: 8227

NWNB0307 ADCP 1577

Error statistics for deployment: NWNB0307 updated 2004/11/22

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 24 by HS in Okt 2004
 Intensity edited up to and including bin 24 by HS in Okt 2004

Total number of ensembles: 24686
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 24
 Number of acceptable intensity bins: 24

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	5	89	0	87	1	0	0	0	0	0	0	0	0	0
2	3	119	0	109	5	0	0	0	0	0	0	0	0	0
3	1	143	1	137	3	0	0	0	0	0	0	0	0	0
4	1	283	1	269	7	0	0	0	0	0	0	0	0	0
5	0	257	1	230	12	1	0	0	0	0	0	0	0	0
6	0	281	1	267	7	0	0	0	0	0	0	0	0	0
7	0	358	1	337	9	1	0	0	0	0	0	0	0	0
8	0	415	2	386	13	1	0	0	0	0	0	0	0	0
9	0	216	1	208	4	0	0	0	0	0	0	0	0	0
10	2	327	1	285	18	2	0	0	0	0	0	0	0	0
11	1	422	2	380	18	2	0	0	0	0	0	0	0	0
12	0	372	2	321	22	1	1	0	0	0	0	0	0	0
13	0	382	2	349	13	1	1	0	0	0	0	0	0	0
14	1	361	1	339	11	0	0	0	0	0	0	0	0	0
15	2	478	2	424	21	4	0	0	0	0	0	0	0	0
16	0	472	2	430	16	2	1	0	0	0	0	0	0	0
17	0	695	3	551	45	9	4	1	1	0	0	0	0	0
18	0	1105	4	632	78	22	5	3	14	4	2	0	0	0
19	0	1954	8	705	100	39	20	16	27	19	2	6	0	0
20	0	3330	13	795	146	44	46	22	37	24	14	21	1	1
21	0	4853	20	941	201	77	35	25	41	42	27	28	6	6
22	0	6461	26	1020	232	82	44	30	46	39	34	42	16	16
23	1	8836	36	1080	333	116	57	35	85	61	35	55	26	26
24	0	11581	47	1181	369	143	72	52	107	79	36	71	43	43

NWNB0307 ADCP 1577

Deployment: NWNB0307 updated 2004/11/23
Instrument no.: 1577
Instrument freq.: 75
Latitude: 62 55.025 N
Longitude: 06 05.115 W
Bottom depth: 955
Instrument depth: 701
Center depth of first bin: 665
Bin length: 25
Number of bins: 24
Number of first ensemble: 230
Time of first ensemble: 2003 07 05 00 20
Number of last ensemble: 24915
Time of last ensemble: 2004 06 11 20 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	665	290	134	66	98	996
2	640	315	133	61	98	995
3	615	340	131	57	99	994
4	590	365	130	54	99	989
5	565	390	129	50	100	990
6	540	415	129	46	100	989
7	515	440	133	43	101	985
8	490	465	139	41	102	983
9	465	490	148	42	101	991
10	440	515	156	44	101	987
11	415	540	165	52	101	983
12	390	565	175	63	103	985
13	365	590	187	79	104	985
14	340	615	203	98	105	985
15	315	640	221	116	105	981
16	290	665	239	134	105	981
17	265	690	254	148	105	972
18	240	715	267	161	106	955
19	215	740	279	169	106	921
20	190	765	289	173	106	865
21	165	790	296	175	106	803
22	140	815	303	176	105	738
23	115	840	308	175	105	642
24	90	865	300	160	102	531

NWNB0307 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB0307.

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	665	69	275	28	129	73	15	160	100	A
02	640	70	276	29	133	74	16	161	100	A
03	615	71	277	28	136	74	17	162	101	A
04	590	72	277	28	139	75	18	163	102	A
05	565	74	278	28	145	76	20	164	102	A
06	540	77	278	30	150	80	23	165	102	A
07	515	83	278	34	160	84	29	167	103	A
08	490	90	281	38	173	91	36	171	104	A
09	465	98	284	42	186	98	41	176	106	A
10	440	103	290	45	200	103	45	180	110	A
11	415	109	295	49	212	109	48	4	293	A
12	390	114	302	56	225	115	55	8	299	A
13	365	119	308	64	233	121	61	11	302	A
14	340	121	310	69	239	124	64	14	303	A
15	315	123	314	73	243	126	67	16	306	A
16	290	123	317	76	247	127	69	17	307	A
17	265	123	319	79	250	128	71	19	308	A
18	240	122	320	76	251	126	69	18	309	A
19	215	121	321	77	253	126	69	19	310	A
20	190	124	323	78	253	128	70	18	313	A
21	165	123	324	76	255	127	68	18	314	A
22	140	125	324	74	256	129	66	18	314	A
23	115	129	327	74	261	134	65	17	318	A
24	90	131	328	74	262	136	65	17	319	A

Harmonic constants for constituent S2 for deployment NWNB0307.

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	665	25	302	15	167	28	10	153	133	A
02	640	25	302	15	167	28	10	154	132	A
03	615	26	303	14	170	28	10	157	131	A
04	590	28	303	15	179	30	12	160	131	A
05	565	31	309	16	189	32	13	163	136	A
06	540	33	312	16	199	34	14	167	137	A
07	515	35	316	17	212	35	16	171	140	A
08	490	36	323	16	229	36	16	178	144	A
09	465	38	328	18	246	38	18	5	326	A
10	440	41	333	20	256	41	19	8	329	A
11	415	44	340	21	264	44	20	9	336	A
12	390	44	347	22	277	45	20	12	341	A
13	365	41	356	24	293	43	20	19	347	A
14	340	37	3	26	308	41	19	28	349	A
15	315	38	6	28	312	43	20	32	350	A
16	290	39	4	29	309	44	21	31	348	A
17	265	39	1	28	309	44	20	31	346	A
18	240	38	3	29	311	43	20	33	346	A
19	215	36	3	30	311	42	20	36	344	A
20	190	36	2	30	310	43	20	37	343	A
21	165	36	2	31	311	43	21	38	342	A
22	140	38	2	32	310	45	21	37	342	A
23	115	35	352	31	309	44	17	41	333	A
24	90	35	349	33	301	44	19	43	326	A

NWNB0307 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB0307.

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	665	13	267	3	166	13	3	178	88	A
02	640	14	267	3	158	14	3	175	88	A
03	615	15	265	4	150	15	4	173	87	A
04	590	14	263	5	151	15	4	173	85	A
05	565	14	259	4	136	14	4	170	82	A
06	540	14	258	5	131	14	4	168	82	A
07	515	14	269	3	134	14	2	172	90	A
08	490	14	281	2	216	14	2	3	281	A
09	465	16	280	3	198	16	3	2	280	A
10	440	17	271	4	174	17	4	178	92	A
11	415	17	268	4	185	17	4	1	268	A
12	390	18	279	5	202	18	5	4	278	A
13	365	23	286	11	205	23	11	5	284	A
14	340	25	288	13	213	25	12	10	283	A
15	315	24	290	12	217	24	11	10	286	A
16	290	23	291	10	217	23	10	8	288	A
17	265	23	291	11	212	24	11	6	289	A
18	240	26	290	14	215	26	13	11	284	A
19	215	27	286	15	211	28	15	11	280	A
20	190	26	275	16	203	26	15	17	265	A
21	165	25	276	15	190	25	15	4	274	A
22	140	24	276	18	188	24	18	4	273	A
23	115	30	276	18	187	30	18	1	275	A
24	90	29	277	14	186	29	14	179	98	A

Harmonic constants for constituent O1 for deployment NWNB0307.

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	665	6	48	5	267	7	2	144	242	A
02	640	6	45	4	272	7	3	152	237	A
03	615	6	48	4	264	7	2	148	239	A
04	590	6	44	5	268	7	3	146	239	A
05	565	7	37	6	264	8	3	141	237	A
06	540	7	34	6	267	8	4	143	234	A
07	515	7	40	5	268	8	3	149	233	A
08	490	8	46	6	271	9	4	145	242	A
09	465	8	49	5	269	9	3	149	241	A
10	440	7	44	4	286	8	3	163	232	A
11	415	7	36	4	275	7	3	159	225	A
12	390	9	25	6	279	10	5	167	212	A
13	365	11	30	6	280	11	6	164	219	A
14	340	11	31	6	275	12	5	164	218	A
15	315	12	25	6	272	12	6	166	212	A
16	290	12	29	7	287	12	7	171	214	A
17	265	11	28	6	298	11	6	180	208	A
18	240	12	29	6	289	12	6	173	213	A
19	215	11	29	7	290	11	7	172	214	A
20	190	10	34	6	283	11	6	163	223	A
21	165	10	22	6	263	11	5	157	213	A
22	140	11	42	7	274	12	5	154	234	A
23	115	9	55	5	248	10	1	149	238	A
24	90	7	80	8	229	10	3	127	241	C

NWNB0307 ADCP 1577

Harmonic constants for constituent K1 for deployment NWNB0307.

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	665	5	276	4	155	5	3	143	119	A
02	640	5	274	4	153	5	3	148	112	A
03	615	5	266	5	149	6	4	138	114	A
04	590	5	268	5	149	6	4	132	121	A
05	565	5	275	6	150	7	4	132	125	A
06	540	5	282	5	161	6	4	134	132	A
07	515	5	276	5	164	6	4	135	130	A
08	490	6	268	6	163	6	5	142	119	A
09	465	6	264	6	154	7	5	141	113	A
10	440	7	270	5	151	8	4	153	106	A
11	415	8	276	6	166	8	5	160	108	A
12	390	10	271	7	158	11	6	158	103	A
13	365	14	263	7	146	14	6	163	91	A
14	340	15	260	10	133	17	7	154	92	A
15	315	17	258	11	133	19	8	154	90	A
16	290	18	266	10	147	19	8	162	94	A
17	265	18	270	9	138	19	6	160	97	A
18	240	16	274	7	133	17	4	160	99	A
19	215	12	271	7	130	13	4	151	101	A
20	190	4	260	5	135	6	3	124	117	A
21	165	4	87	5	177	5	4	91	178	C
22	140	13	75	9	214	15	5	149	243	C
23	115	18	48	11	229	21	0	148	228	A
24	90	27	38	15	217	31	0	151	218	C

NWNB0307 Aanderaa 9494

Deployment: NWNB0307 analyzed from beginning to end
 Instrument no.: 9494
 Instrument type: Aanderaa
 Latitude: 62 55.025 N
 Longitude: 06 05.115 W
 Bottom depth: 955
 Instrument depth: 703
 Number of records: 8227
 Time of first record: 2003 07 05 01 30
 Time of last record : 2004 06 11 19 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	8227	0
Column 8 : Speed	8227	0
Column 9 : Direct	8227	0
Column 10 : Salt	8227	0
Column 11 : Press	8227	0

Comments

Residual current: 65 mm/sec towards: 96 degrees

TIDAL ANALYSIS

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

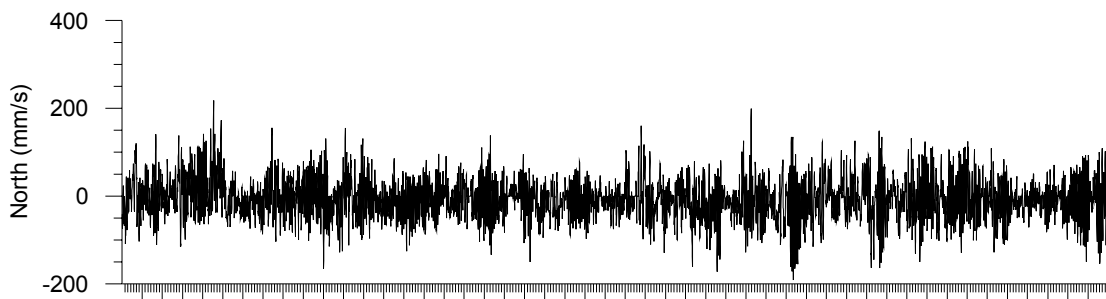
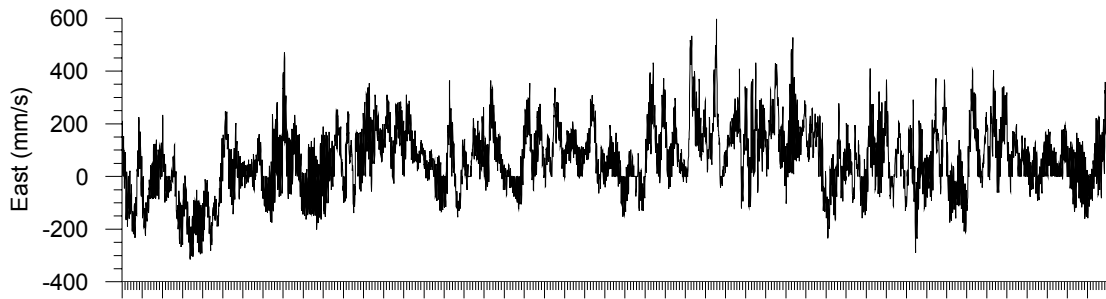
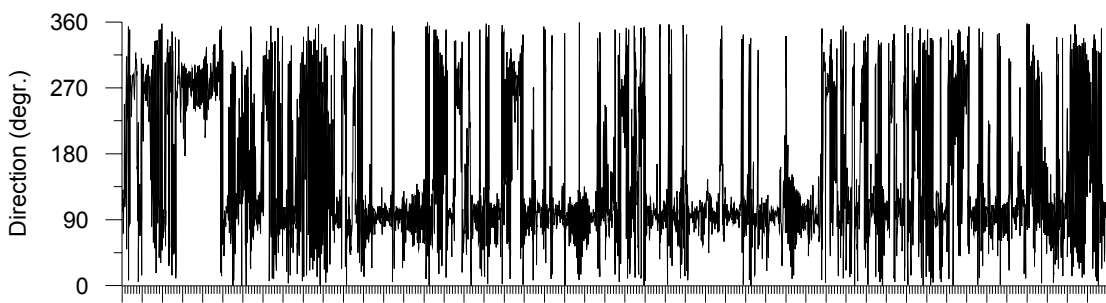
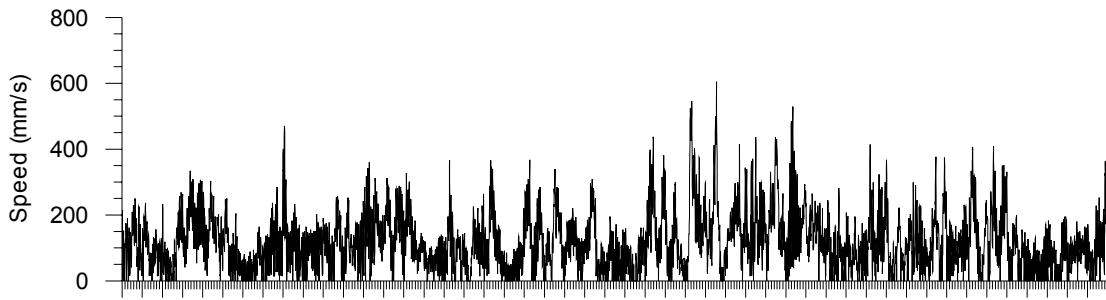
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	17	126	5	307	18	0	164	306	A
MSF	.00282193	6	130	3	256	6	2	159	302	C
Q1	.03721850	2	45	4	214	4	0	119	217	C
O1	.03873065	5	55	3	265	6	1	154	241	A
NO1	.04026859	1	181	2	39	2	1	119	30	A
P1	.04155259	2	283	2	177	2	1	130	144	A
K1	.04178075	4	276	3	166	5	3	153	114	A
N2	.07899925	12	273	2	169	12	2	177	94	A
M2	.08051140	61	275	25	125	65	12	160	99	A
L2	.08202355	3	268	3	163	4	3	130	130	A
S2	.08333334	23	303	13	169	25	9	155	132	A
K2	.08356149	8	299	5	188	9	5	163	128	A
MK3	.12229210	0	161	0	349	1	0	125	346	A
M4	.16102280	1	319	0	175	1	0	172	140	A
MS4	.16384470	1	90	1	33	1	1	35	69	A

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

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

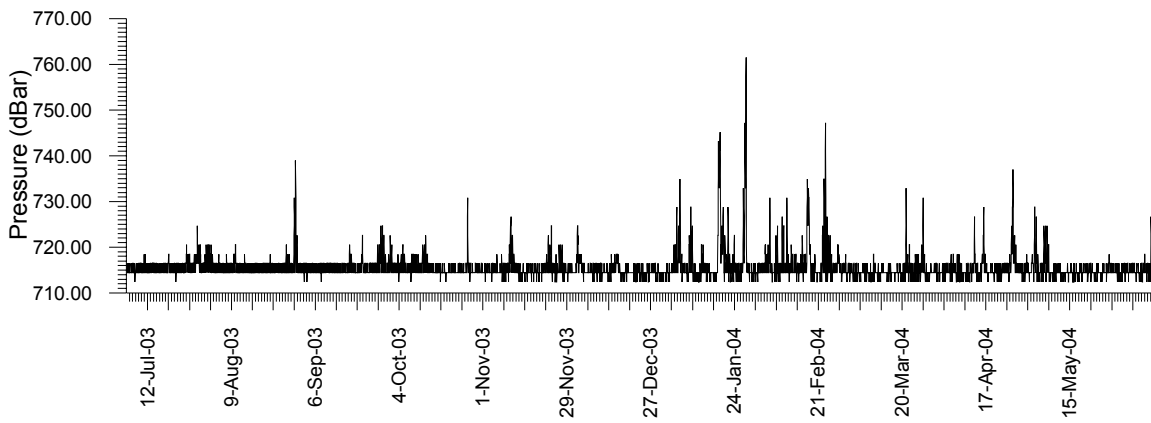
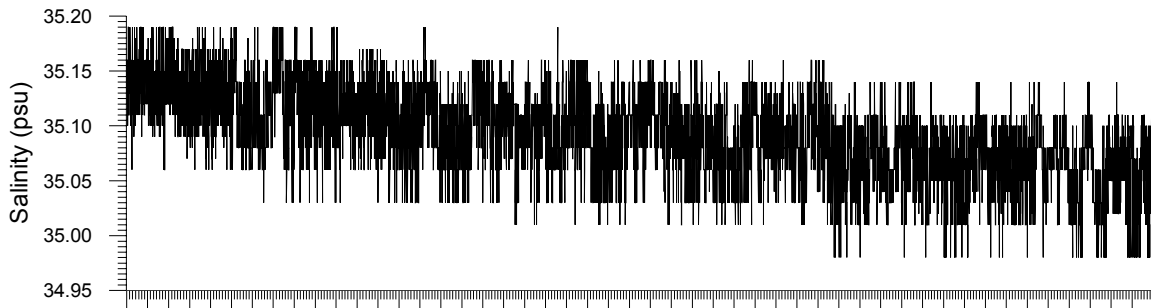
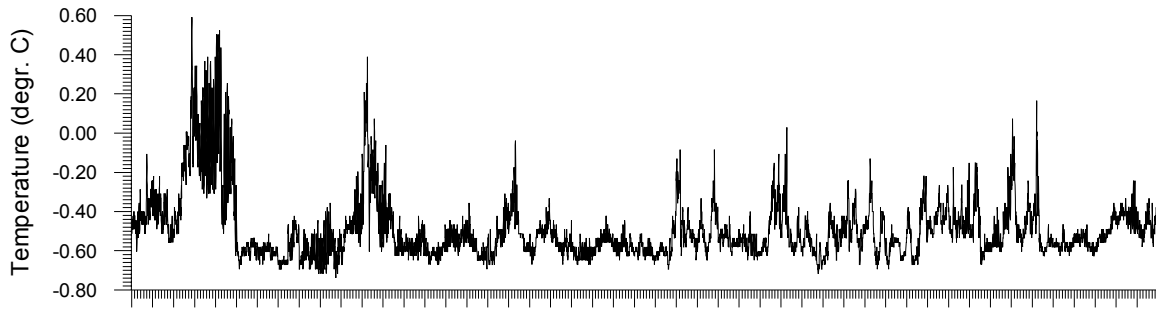
Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	13	15	25	23	23	15	12	14	15	15	15	10	196	196
50 - 100	8	19	48	61	32	13	8	13	21	26	17	9	275	471
100 - 150	3	9	49	74	19	3	1	4	19	26	13	3	223	695
150 - 200	0.36	1	39	74	7	1	0.12	1	8	15	6	1	152	847
200 - 300	0	0.49	27	69	3	0	0	0.24	2	13	1	0	116	963
300 - 400	0	0	6	21	0	0	0	0	0.12	1	0	0	28	991
400 - 500	0	0	1	6	0	0	0	0	0	0	0	0	7	998
500 - 600	0	0	0.12	1	0	0	0	0	0	0	0	0	1	1000
600 - 700	0	0	0	0.12	0	0	0	0	0	0	0	0	.12	1000
Total (ppt)	24	45	195	329	84	32	22	32	66	96	53	23		
Rel. flux (ppt)	10	26	218	455	58	15	7	16	51	95	37	11		
Avg. spd (mm/s)	50	69	134	166	84	54	42	59	94	119	85	59		
Max. spd (mm/s)	199	274	524	605	269	180	170	210	301	334	277	191		

NWNB0307
Instrument: Aanderaa 9494



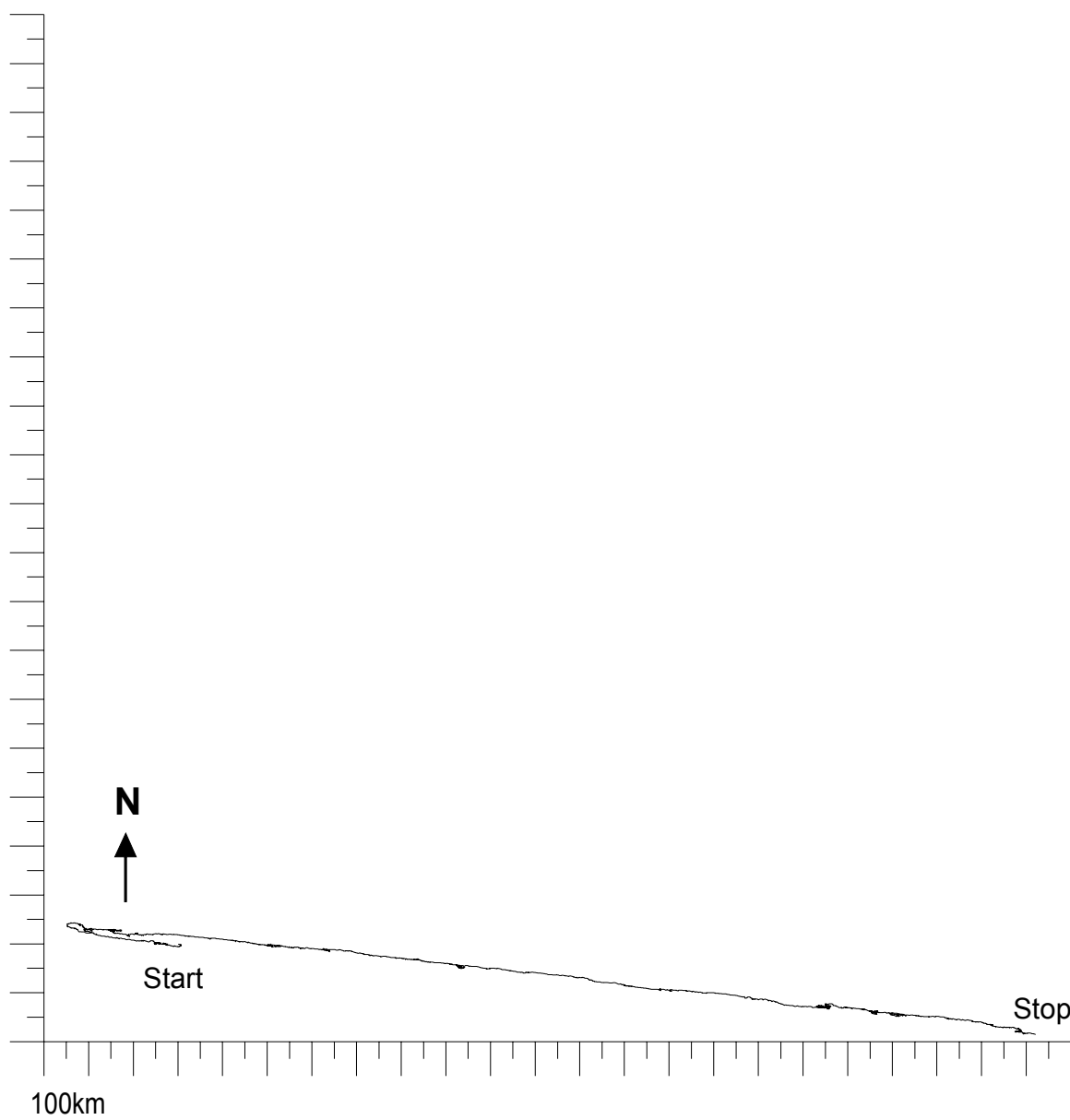
12-Jul-03 9-Aug-03 6-Sep-03 4-Oct-03 1-Nov-03 29-Nov-03 27-Dec-03 24-Jan-04 21-Feb-04 20-Mar-04 17-Apr-04 15-May-04

NWNB0307
Instrument: Aanderaa 9494



Progressive vector diagram

NWNB0307: Aanderaa 9494



Deployment Id: NWNE0107 (was deployed upside down)

Latitude: 62°47.537'N

Longitude: 006°04.240'W

Echo sounding depth: 453m

Bottom depth corr.: 447m

Time of deployment: 06/07 -2001 1940UTC

Time of recovery: 12/06 – 2004 0655UTC

ADCP:

Instrument no.: RDI ADCP 1244

Instrument frequency: 150kHz

Height above bottom: 1m

Depth: 446m (corr.)

Time of first data: 06/07 – 2001 2000 UTC

Time of last data: 30/12 – 2003 1840 UTC

Sample interval: 20 min

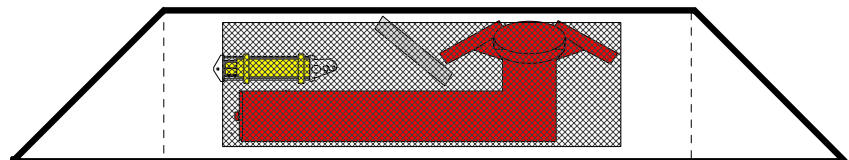
No. of ensembles: 65301

Pings per ens.: 1

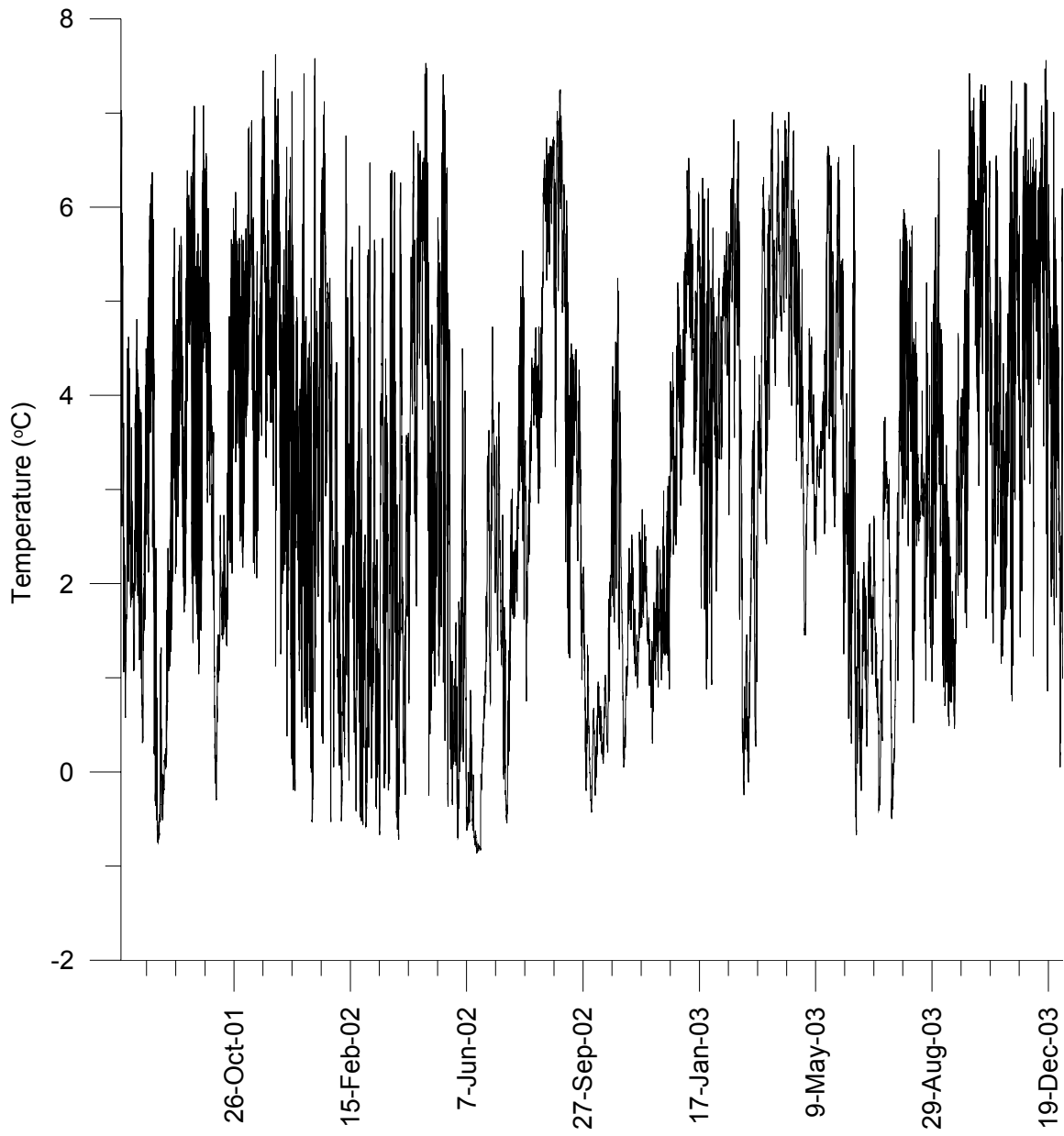
Binlength: 25 m

Depth of first bin:

No. of bins:



NWNE0107 ADCP 1244
(Only temperature available)



Deployment Id: NWNG0307

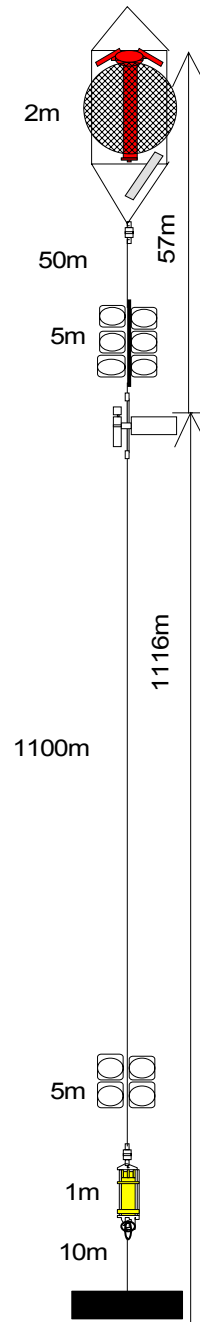
Latitude: 63°06.096'N
Longitude: 006°05.030'W
Echo sounding depth: 1835 m
Bottom depth corr.: 1799m
Time of deployment: 05/07 -2003 0128UTC
Time of recovery: 11/06 - 2004 2338UTC

ADCP:

Instrument no.: RDI ADCP 1292
Instrument frequency: 75kHz
Height above bottom: 1173 m
Depth: 626m (corr.)
Time of first data: 05/07 – 2003 0220UTC
Time of last data: 11/06 – 2004 2220UTC
Sample interval: 20 min
No. of ensembles: 24685
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 590m (corr.)
No. of bins: 32

Aanderaa:

Instrument no.: RCM9 721
Height above bottom: 1116 m
Depth: 683m (corr.)
Time of first data: 05/07 – 2003 0230UTC
Time of last data: 11/06 – 2004 2130UTC
Sample interval: 60 min
No. of ensembles: 8228



NWNG0307 ADCP 1292

Error statistics for deployment: NWNG0307 updated 2004/11/03

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 21 by HV in Okt 2004
 Intensity edited up to and including bin 21 by HS in Okt 2004

Total number of ensembles: 24685
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 21
 Number of acceptable intensity bins: 21

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	600	2	562	16	2	0	0	0	0	0	0	0	0
2	0	324	1	296	11	2	0	0	0	0	0	0	0	0
3	3	442	2	415	10	1	1	0	0	0	0	0	0	0
4	1	605	2	563	16	2	1	0	0	0	0	0	0	0
5	1	468	2	440	14	0	0	0	0	0	0	0	0	0
6	0	696	3	622	30	2	2	0	0	0	0	0	0	0
7	2	527	2	473	22	2	1	0	0	0	0	0	0	0
8	0	487	2	447	15	2	1	0	0	0	0	0	0	0
9	3	380	2	337	17	3	0	0	0	0	0	0	0	0
10	1	382	2	348	14	2	0	0	0	0	0	0	0	0
11	0	384	2	341	15	3	1	0	0	0	0	0	0	0
12	2	347	1	294	22	3	0	0	0	0	0	0	0	0
13	2	727	3	634	40	3	1	0	0	0	0	0	0	0
14	0	597	2	529	24	4	2	0	0	0	0	0	0	0
15	0	579	2	488	39	3	1	0	0	0	0	0	0	0
16	0	664	3	561	29	6	1	0	0	0	1	0	0	0
17	0	1022	4	605	69	10	2	5	10	5	3	0	0	0
18	2	1507	6	567	88	24	13	9	17	5	5	7	0	0
19	1	2169	9	704	119	26	7	17	22	16	9	10	0	0
20	1	3229	13	756	192	54	35	21	41	24	16	13	2	0
21	0	5001	20	1050	229	110	45	35	59	45	26	21	4	0

NWNG0307 ADCP 1292

Deployment: NWNG0307 updated 2004/11/22
Instrument no.: 1292
Instrument freq.: 75
Latitude: 63 06.096 N
Longitude: 06 05.030 W
Bottom depth: 1799
Instrument depth: 626
Center depth of first bin: 590
Bin length: 25
Number of bins: 21
Number of first ensemble: 236
Time of first ensemble: 2003 07 05 02 20
Number of last ensemble: 24920
Time of last ensemble: 2004 06 11 22 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	590	1209	96	18	133	976
2	565	1234	98	18	134	987
3	540	1259	101	18	133	982
4	515	1284	104	18	132	975
5	490	1309	107	18	132	981
6	465	1334	111	19	132	972
7	440	1359	115	20	133	979
8	415	1384	120	20	131	980
9	390	1409	127	22	129	985
10	365	1434	135	24	131	985
11	340	1459	145	28	130	984
12	315	1484	157	33	129	986
13	290	1509	171	40	128	971
14	265	1534	182	47	125	976
15	240	1559	193	54	123	977
16	215	1584	204	62	122	973
17	190	1609	214	67	124	959
18	165	1634	224	68	127	939
19	140	1659	234	71	129	912
20	115	1684	245	71	131	869
21	90	1709	258	72	133	797

NWNG0307 ADCP 1292

Harmonic constants for constituent M2 for deployment NWNG0307.

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	590	68	292	32	250	73	20	21	286	A
02	565	68	293	33	253	73	20	22	287	A
03	540	67	295	33	258	72	19	23	288	A
04	515	64	296	33	262	70	17	25	290	A
05	490	63	297	34	267	70	15	26	291	A
06	465	61	299	35	273	69	14	28	293	A
07	440	60	302	38	279	69	13	31	296	A
08	415	59	306	40	283	70	13	34	299	A
09	390	58	313	46	286	72	17	38	303	A
10	365	56	319	51	293	74	17	42	308	A
11	340	55	326	56	298	77	20	46	312	A
12	315	59	332	63	298	82	25	47	314	A
13	290	64	337	69	298	88	31	48	316	A
14	265	65	340	72	299	91	34	49	317	A
15	240	63	341	74	300	92	33	51	317	A
16	215	64	343	75	302	93	34	51	318	A
17	190	64	343	78	301	94	35	52	317	A
18	165	66	344	81	301	97	38	53	317	A
19	140	65	347	82	302	97	40	54	318	A
20	115	65	350	85	304	99	41	55	319	A
21	90	63	351	82	305	96	38	56	320	A

Harmonic constants for constituent S2 for deployment NWNG0307.

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	590	27	337	14	287	28	10	22	329	A
02	565	26	339	14	292	28	9	23	331	A
03	540	26	341	14	295	28	9	23	333	A
04	515	25	342	14	298	27	9	25	333	A
05	490	25	346	15	303	28	9	28	336	A
06	465	25	351	17	311	29	9	31	340	A
07	440	25	354	18	316	30	9	34	342	A
08	415	24	356	19	323	30	9	38	344	A
09	390	23	2	19	331	29	8	40	349	A
10	365	22	2	17	337	27	6	38	352	A
11	340	24	359	18	333	29	6	36	350	A
12	315	23	4	18	341	29	6	38	355	A
13	290	20	6	20	343	28	6	46	354	A
14	265	19	13	22	346	29	7	50	357	A
15	240	19	24	25	350	30	9	54	2	A
16	215	20	30	26	349	31	11	54	4	A
17	190	23	31	27	346	33	14	51	4	A
18	165	27	28	28	343	36	15	47	3	A
19	140	30	22	31	337	40	16	45	359	A
20	115	33	20	36	339	45	17	48	357	A
21	90	35	21	39	336	48	20	49	356	A

NWNG0307 ADCP 1292

Harmonic constants for constituent N2 for deployment NWNG0307.

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	590	12	269	4	241	12	2	18	267	A
02	565	11	268	4	250	12	1	18	266	A
03	540	10	269	4	257	11	1	22	267	A
04	515	9	277	6	266	10	1	32	274	A
05	490	8	281	6	278	10	0	34	280	A
06	465	7	278	5	289	9	1	35	281	C
07	440	8	273	5	282	9	1	30	275	C
08	415	9	261	3	279	9	1	18	262	C
09	390	8	254	3	311	8	3	14	258	C
10	365	6	268	5	303	8	2	38	281	C
11	340	8	276	6	291	9	1	37	281	C
12	315	6	280	7	295	9	1	50	289	C
13	290	5	312	11	301	12	1	64	303	A
14	265	7	342	13	304	14	4	65	311	A
15	240	9	349	14	303	15	6	63	313	A
16	215	9	343	14	306	16	5	61	315	A
17	190	8	341	12	314	14	3	58	322	A
18	165	6	343	11	315	12	2	62	321	A
19	140	7	331	9	313	11	2	53	320	A
20	115	9	338	9	309	12	3	45	323	A
21	90	11	333	8	296	13	4	35	321	A

Harmonic constants for constituent O1 for deployment NWNG0307.

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	590	5	61	1	328	5	1	179	241	A
02	565	6	60	1	321	6	1	178	241	A
03	540	6	63	2	333	6	2	0	63	A
04	515	6	65	2	339	6	2	1	65	A
05	490	6	65	1	8	7	1	7	64	A
06	465	5	60	1	48	6	0	9	60	A
07	440	5	59	1	318	5	1	179	239	A
08	415	5	53	1	359	5	1	8	52	A
09	390	6	62	1	340	6	1	2	62	A
10	365	6	70	1	354	6	1	3	69	A
11	340	6	66	1	25	6	1	10	65	A
12	315	7	55	2	346	7	1	5	54	A
13	290	8	51	1	351	8	1	4	51	A
14	265	8	42	1	338	8	1	3	41	A
15	240	8	44	2	337	8	2	5	43	A
16	215	8	47	2	330	8	2	4	46	A
17	190	9	43	3	351	9	2	12	40	A
18	165	10	40	3	340	10	3	10	37	A
19	140	10	46	3	330	10	3	4	45	A
20	115	9	55	1	286	9	1	174	235	A
21	90	7	54	2	295	7	2	169	237	A

NWNG0307 ADCP 1292

Harmonic constants for constituent K1 for deployment NWNG0307.

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	590	4	296	2	161	4	1	164	121	A
02	565	4	297	2	170	4	1	163	123	A
03	540	4	285	2	161	4	2	157	116	A
04	515	4	293	2	143	5	1	151	120	A
05	490	5	301	3	149	5	1	152	127	A
06	465	4	302	2	139	5	1	157	125	A
07	440	4	294	2	134	5	1	157	117	A
08	415	5	278	2	163	5	2	167	103	A
09	390	6	274	3	158	6	2	166	99	A
10	365	5	273	3	140	5	2	156	102	A
11	340	6	272	4	132	7	2	153	101	A
12	315	5	261	5	118	6	2	133	101	A
13	290	5	268	6	135	7	3	124	120	A
14	265	6	274	6	144	8	4	134	119	A
15	240	7	280	5	157	8	4	151	115	A
16	215	8	278	6	163	8	5	153	114	A
17	190	6	281	6	175	6	5	136	137	A
18	165	1	318	5	185	5	0	95	184	A
19	140	1	203	6	177	6	1	78	178	A
20	115	3	112	7	201	7	3	90	201	C
21	90	6	67	12	215	12	3	113	220	C

NWNG0307 Aanderaa 721

Deployment: NWNG0307 analyzed from beginning to end
 Instrument no.: 721
 Instrument type: Aanderaa
 Latitude: 63 06.096 N
 Longitude: 06 05.030 W
 Bottom depth: 1799
 Instrument depth: 683
 Number of records: 8228
 Time of first record: 2003 07 05 02 30
 Time of last record : 2004 06 11 21 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	8228	0
Column 8 : Speed	8228	0
Column 9 : Direct	8228	0

Comments

Residual current: 14 mm/sec towards: 148 degrees

TIDAL ANALYSIS

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

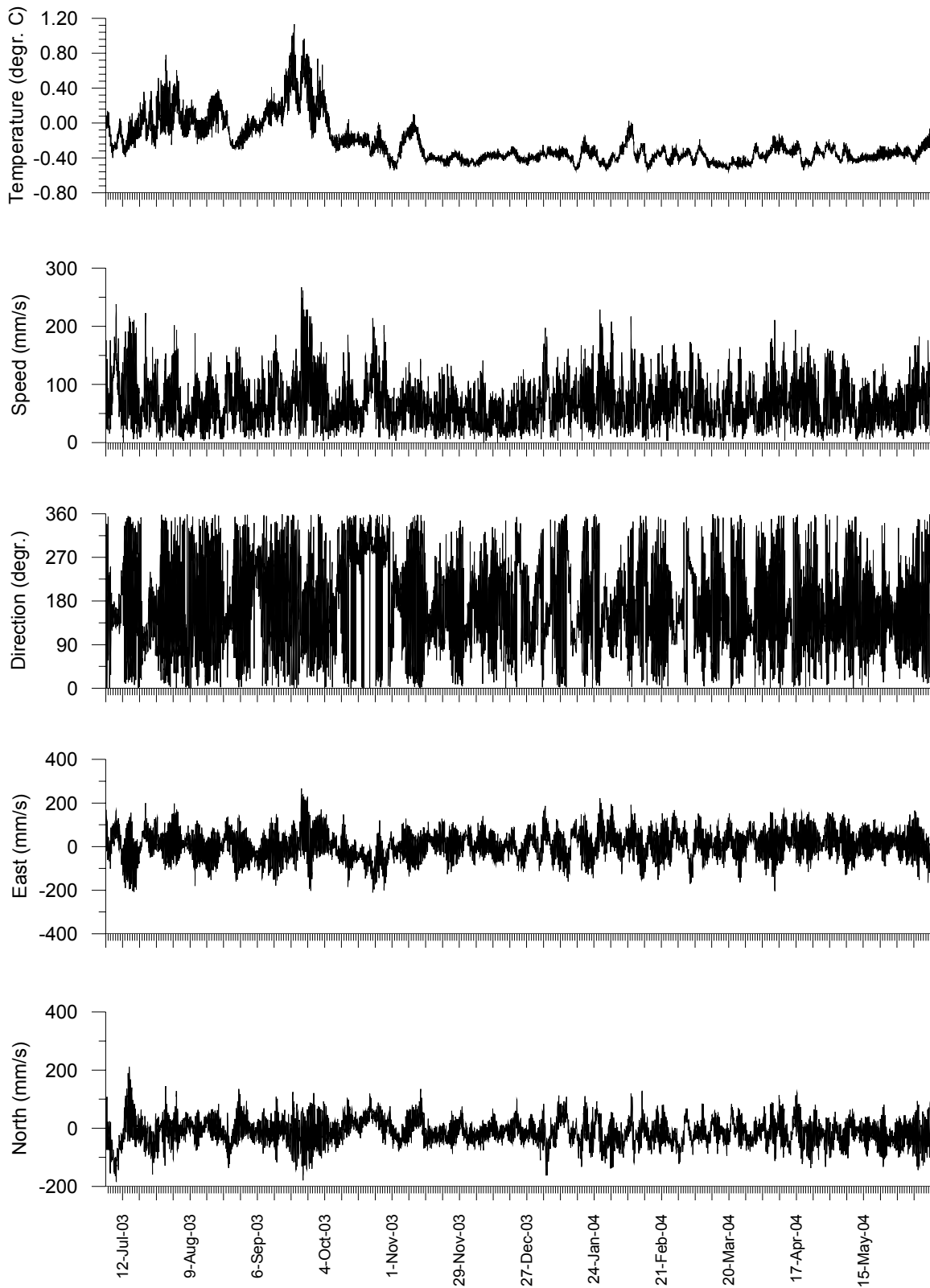
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	6	195	4	354	7	1	147	9	C
MSF	.00282193	10	233	12	60	16	1	131	57	A
Q1	.03721850	2	20	0	225	2	0	172	201	A
O1	.03873065	4	62	0	274	4	0	175	243	A
NO1	.04026859	1	256	0	300	1	0	24	265	C
P1	.04155259	1	264	1	137	1	1	145	103	A
K1	.04178075	3	298	1	159	3	1	159	124	A
N2	.07899925	10	278	5	257	11	2	25	274	A
M2	.08051140	58	287	22	240	60	16	16	283	A
L2	.08202355	1	256	0	356	1	0	172	71	C
S2	.08333334	23	331	11	281	24	8	19	324	A
K2	.08356149	7	309	1	254	7	1	7	308	A
MK3	.12229210	1	161	1	79	1	1	84	82	A
M4	.16102280	0	142	1	66	1	0	84	69	A
MS4	.16384470	1	145	1	105	1	0	38	130	A

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

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

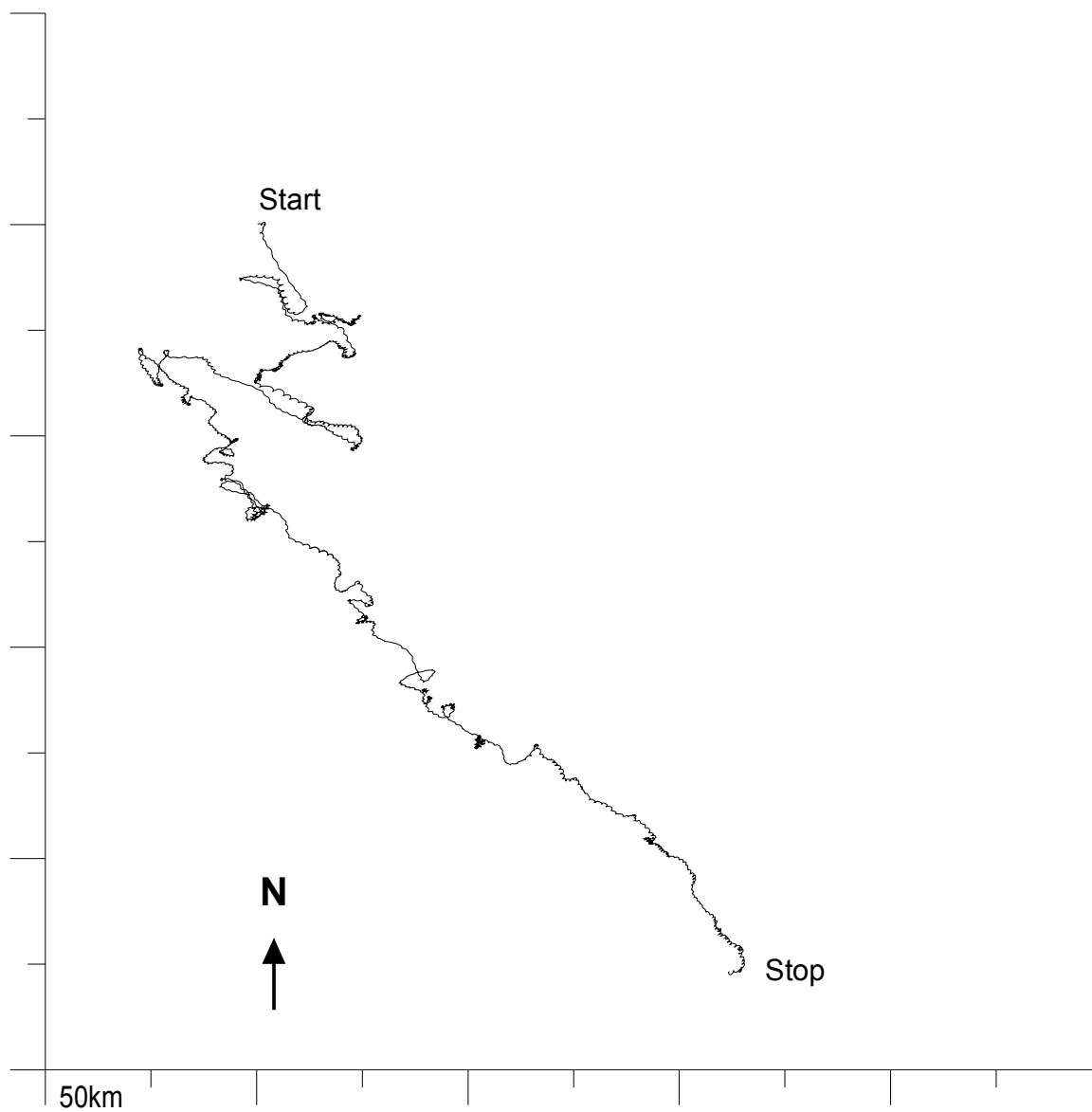
Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	22	23	32	37	35	41	39	36	31	24	20	17	359	359
50 - 100	16	28	55	61	50	34	33	48	54	35	18	14	447	806
100 - 150	3	10	27	29	16	9	8	11	22	16	3	2	156	962
150 - 200	1	2	5	7	3	2	1	2	5	4	1	0.36	32	994
200 - 300	0	0.12	1	2	1	0.12	0	0.24	1	1	0	0.12	6	1000
Total (ppt)	41	63	121	136	106	85	81	97	113	80	42	33		
Rel.flux (ppt)	32	63	138	154	107	74	68	91	125	89	35	25		
Avg.spd (mm/s)	55	69	80	79	71	61	59	66	77	78	58	54		
Max.spd (mm/s)	188	217	267	261	258	205	176	211	217	217	199	214		

NWNG0307
Instrument: Aanderaa 721



Progressive vector diagram

NWNG0307: Aanderaa 721



Deployment Id: NWSB0307

Latitude: 60°47.000'N

Longitude: 005°17.981'W

Echo sounding depth: 799m

Bottom depth corr.: 783m

Time of deployment: 06/07 -2003 0502UTC

Time of recovery: 14/06 - 2004 1955UTC

ADCP:

Instrument no.: RDI ADCP 1644

Instrument frequency: 75kHz

Height above bottom: 108m

Depth: 675m (corr.)

Time of first data: 06/07 - 2003 0540UTC

Time of last data: 14/06 - 2004 1940UTC

Sample interval: 20 min

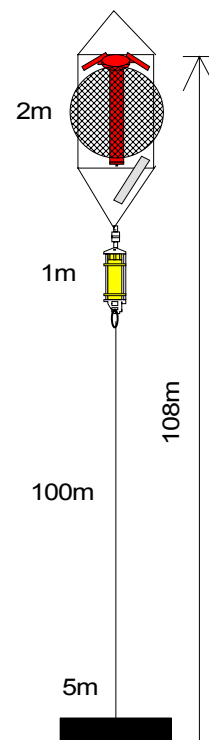
No. of ensembles: 24811

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 639 (corr.)

No. of bins: 32



NWSB0307 ADCP 1644

Error statistics for deployment: NWSB0307 updated 2004/11/22

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by HS in Okt 2004
 Velocity edited up to and including bin 21 by HV in Okt 2004
 Intensity edited up to and including bin 21 by HS in Okt 2004

Total number of ensembles: 24811
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 21
 Number of acceptable intensity bins: 21

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	Velocity % flgd	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	5	41	0	41	0	0	0	0	0	0	0	0	0
2	5	51	0	51	0	0	0	0	0	0	0	0	0
3	2	65	0	63	1	0	0	0	0	0	0	0	0
4	2	62	0	60	1	0	0	0	0	0	0	0	0
5	0	58	0	56	1	0	0	0	0	0	0	0	0
6	0	47	0	45	1	0	0	0	0	0	0	0	0
7	1	86	0	74	6	0	0	0	0	0	0	0	0
8	2	243	1	225	9	0	0	0	0	0	0	0	0
9	0	171	1	165	3	0	0	0	0	0	0	0	0
10	0	194	1	187	2	1	0	0	0	0	0	0	0
11	0	257	1	230	12	1	0	0	0	0	0	0	0
12	0	155	1	141	7	0	0	0	0	0	0	0	0
13	1	155	1	143	6	0	0	0	0	0	0	0	0
14	0	245	1	210	13	0	1	1	0	0	0	0	0
15	0	480	2	328	24	6	2	1	6	2	0	0	0
16	0	922	4	429	50	21	7	7	11	11	1	0	0
17	3	1745	7	624	107	34	16	14	38	21	3	0	0
18	1	3158	13	843	150	63	30	25	56	42	14	5	0
19	1	4714	19	810	181	73	46	31	67	47	36	26	0
20	0	6696	27	817	214	81	42	30	77	49	48	60	1
21	0	8824	36	873	222	103	62	43	66	46	61	93	5

NWSB0307 ADCP 1644

Deployment: NWSB0307 updated 2004/11/22
Instrument no.: 1644
Instrument freq.: 75
Latitude: 60 47.000 N
Longitude: 05 17.981 W
Bottom depth: 783
Instrument depth: 675
Center depth of first bin: 639
Bin length: 25
Number of bins: 21
Number of first ensemble: 318
Time of first ensemble: 2003 07 06 05 40
Number of last ensemble: 25128
Time of last ensemble: 2004 06 14 19 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	639	144	214	47	190	998
2	614	169	209	43	190	998
3	589	194	203	40	192	997
4	564	219	198	39	194	998
5	539	244	195	36	195	998
6	514	269	193	32	196	998
7	489	294	193	28	199	997
8	464	319	191	24	203	990
9	439	344	193	22	197	993
10	414	369	199	22	196	992
11	389	394	209	23	203	990
12	364	419	219	22	210	994
13	339	444	227	22	219	994
14	314	469	237	22	225	990
15	289	494	245	21	226	981
16	264	519	252	21	224	963
17	239	544	258	19	224	930
18	214	569	265	16	224	873
19	189	594	275	13	228	810
20	164	619	285	5	257	730
21	139	644	294	14	326	644

NWSB0307 ADCP 1644

Harmonic constants for constituent M2 for deployment NWSB0307.

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	639	244	248	127	201	261	86	22	240	A
02	614	238	249	126	205	257	81	23	241	A
03	589	229	249	123	209	250	73	24	242	A
04	564	220	250	119	213	242	65	25	243	A
05	539	212	251	117	218	235	57	27	244	A
06	514	203	252	118	223	230	50	29	245	A
07	489	192	253	119	230	222	41	31	247	A
08	464	176	255	121	238	211	29	34	249	A
09	439	158	258	124	246	200	19	38	253	A
10	414	144	261	133	253	196	14	43	257	A
11	389	134	265	144	257	196	13	47	261	A
12	364	127	268	152	260	197	14	50	264	A
13	339	123	271	158	261	199	16	52	265	A
14	314	120	271	160	261	200	17	53	265	A
15	289	118	271	162	261	200	16	54	265	A
16	264	115	271	162	262	198	15	55	265	A
17	239	113	272	163	262	198	15	55	265	A
18	214	111	274	167	263	199	17	56	267	A
19	189	113	275	172	264	205	18	57	267	A
20	164	115	276	172	264	206	19	56	268	A
21	139	116	276	177	265	211	19	57	268	A

Harmonic constants for constituent S2 for deployment NWSB0307.

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	639	84	290	49	250	93	29	27	282	A
02	614	82	290	49	252	92	27	28	281	A
03	589	82	290	48	253	91	26	27	281	A
04	564	79	290	48	255	89	25	28	282	A
05	539	76	291	46	259	86	22	30	283	A
06	514	72	295	47	267	83	19	32	287	A
07	489	68	298	50	273	83	18	35	290	A
08	464	65	299	50	277	80	16	37	291	A
09	439	58	301	48	282	74	12	39	293	A
10	414	54	301	50	289	73	8	43	296	A
11	389	49	301	52	294	71	4	47	298	A
12	364	44	300	53	299	69	1	50	299	A
13	339	41	297	54	301	67	2	53	299	C
14	314	41	298	57	303	70	3	55	301	C
15	289	41	301	57	302	70	1	54	302	C
16	264	43	303	55	300	70	2	52	302	A
17	239	44	305	56	301	71	2	52	303	A
18	214	43	308	58	306	72	2	54	307	A
19	189	42	306	58	304	71	1	54	305	A
20	164	46	306	62	306	77	1	53	306	A
21	139	45	302	64	294	78	5	55	297	A

NWSB0307 ADCP 1644

Harmonic constants for constituent N2 for deployment NWSB0307.

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	639	48	203	13	132	48	12	5	201	A
02	614	47	204	12	138	48	11	6	203	A
03	589	45	204	10	140	45	9	6	203	A
04	564	44	206	10	146	45	9	7	204	A
05	539	47	206	13	149	48	11	9	204	A
06	514	45	205	11	150	45	9	8	203	A
07	489	39	204	7	182	40	3	9	203	A
08	464	33	213	11	227	35	3	18	214	C
09	439	30	226	21	233	37	2	35	229	C
10	414	31	240	29	227	42	5	43	234	A
11	389	34	248	36	222	48	11	46	235	A
12	364	36	252	39	219	51	15	47	234	A
13	339	36	255	40	220	51	16	48	236	A
14	314	36	259	40	220	51	18	49	237	A
15	289	34	260	40	223	50	16	50	239	A
16	264	33	260	40	227	50	15	52	240	A
17	239	34	263	42	228	51	16	52	242	A
18	214	36	271	41	232	51	18	50	248	A
19	189	36	277	45	237	54	19	54	252	A
20	164	34	279	49	234	56	21	58	247	A
21	139	33	275	51	231	58	20	61	243	A

Harmonic constants for constituent O1 for deployment NWSB0307.

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	639	29	343	16	38	31	12	21	351	C
02	614	28	344	16	36	30	12	24	354	C
03	589	28	343	17	34	30	12	25	353	C
04	564	28	343	16	35	30	12	23	353	C
05	539	28	343	16	34	30	12	24	353	C
06	514	28	344	16	35	30	12	23	353	C
07	489	27	342	15	39	29	12	21	350	C
08	464	26	339	14	40	27	12	18	347	C
09	439	24	338	15	40	25	12	21	349	C
10	414	22	335	14	43	23	12	19	346	C
11	389	21	336	14	45	22	12	18	346	C
12	364	22	335	11	47	22	11	12	340	C
13	339	22	330	9	51	22	9	5	332	C
14	314	21	330	8	53	21	8	3	331	C
15	289	22	332	8	47	22	7	6	334	C
16	264	22	334	7	49	22	7	6	336	C
17	239	23	334	7	56	23	7	3	334	C
18	214	23	337	8	62	23	8	2	337	C
19	189	24	341	11	54	24	10	10	345	C
20	164	23	342	11	48	23	10	14	348	C
21	139	24	335	13	53	24	13	9	339	C

NWSB0307 ADCP 1644

Harmonic constants for constituent K1 for deployment NWSB0307.

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	639	19	208	7	265	19	5	12	212	C
02	614	19	208	7	261	19	5	13	211	C
03	589	18	205	6	260	19	5	12	209	C
04	564	18	203	6	262	18	5	10	206	C
05	539	18	204	6	265	18	5	9	207	C
06	514	18	201	6	271	18	6	7	203	C
07	489	17	197	7	266	17	6	10	201	C
08	464	17	194	8	256	17	7	14	200	C
09	439	17	194	6	250	18	5	12	197	C
10	414	17	190	6	265	17	5	5	192	C
11	389	16	183	4	266	16	4	2	184	C
12	364	15	170	3	236	15	3	5	171	C
13	339	15	158	5	161	15	0	18	158	C
14	314	13	153	7	159	15	1	28	154	C
15	289	12	155	7	152	14	0	30	154	A
16	264	14	164	7	130	15	4	24	158	A
17	239	15	162	4	131	15	2	14	160	A
18	214	13	156	4	278	14	4	169	334	C
19	189	14	136	12	295	18	3	139	307	C
20	164	14	129	23	302	27	2	122	304	C
21	139	12	137	33	303	35	3	110	305	C

Deployment Id: NWSC0307

Latitude: 60°33.980'N

Longitude: 004°46.167'W

Echo sounding depth: 1091m

Bottom depth corr.: 1060m

Time of deployment: 06/07 -2003 0237UTC

Time of recovery: 14/06 - 2004 1655UTC

ADCP:

Instrument no.: RDI ADCP 1245

Instrument frequency: 75kHz

Height above bottom: 414m (corr.)

Depth: 646m (corr.)

Time of first data: 06/07 - 2003 0320UTC

Time of last data: 14/06 - 2004 1640UTC

Sample interval: 20 min

No. of ensembles: 24809

Pings per ens.: 1

Binlength: 25m

Depth of first bin: 610 m (corr.)

No. of bins: 32

Aanderaa:

Instrument no.: RCM9 718

Height above bottom: 308m

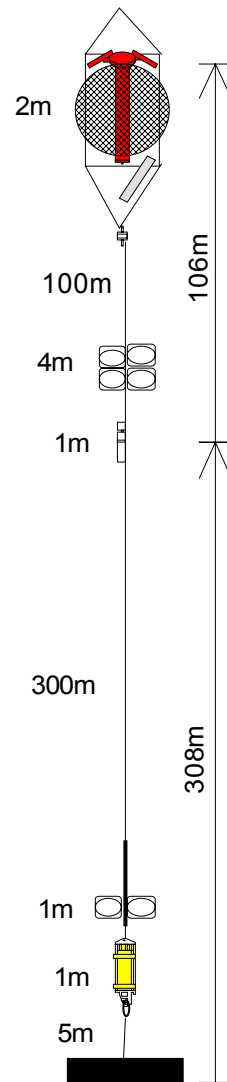
Depth: 752m (corr.)

Time of first data: 06/07 – 2003 0330 UTC

Time of last data: 14/06 – 2004 1530 UTC

Sample interval: 60 min

No. of records: 8269



NWSC0307 ADCP 1245

Error statistics for deployment: NWSC0307 updated 2004/11/03

Surface distance not edited

Heading, pitch and roll not edited

Temperature edited by HS in Okt 2004

Velocity edited up to and including bin 22 by HS in Okt 2004

Intensity edited up to and including bin 22 by HS in Okt 2004

Total number of ensembles: 24809

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	162	1	152	3	0	1	0	0	0	0	0	0
2	0	227	1	223	2	0	0	0	0	0	0	0	0
3	3	194	1	181	5	1	0	0	0	0	0	0	0
4	1	237	1	225	6	0	0	0	0	0	0	0	0
5	0	225	1	196	13	1	0	0	0	0	0	0	0
6	0	241	1	226	6	1	0	0	0	0	0	0	0
7	1	274	1	237	15	1	1	0	0	0	0	0	0
8	1	354	1	307	13	7	0	0	0	0	0	0	0
9	0	401	2	348	19	5	0	0	0	0	0	0	0
10	0	347	1	319	14	0	0	0	0	0	0	0	0
11	0	248	1	234	7	0	0	0	0	0	0	0	0
12	1	310	1	290	10	0	0	0	0	0	0	0	0
13	1	363	1	330	15	1	0	0	0	0	0	0	0
14	4	408	2	351	21	5	0	0	0	0	0	0	0
15	1	534	2	431	40	3	1	0	1	0	0	0	0
16	1	832	3	574	57	18	4	1	7	1	0	0	0
17	6	1427	6	566	62	34	9	6	18	15	9	0	0
18	0	2334	9	620	91	25	22	6	23	16	24	8	0
19	0	3792	15	746	142	60	31	16	39	21	18	36	0
20	4	5468	22	956	214	69	27	13	44	32	28	54	1
21	0	7922	32	1152	306	125	52	37	76	52	25	78	5
22	0	10903	44	1129	343	127	83	46	71	37	22	73	26

NWSC0307 ADCP 1245

Deployment: NWSC0307 updated 2004/11/23
Instrument no.: 1245
Instrument freq.: 75
Latitude: 60 33.980 N
Longitude: 04 46.167 W
Bottom depth: 1060
Instrument depth: 646
Center depth of first bin: 610
Bin length: 25
Number of bins: 22
Number of first ensemble: 311
Time of first ensemble: 2003 07 06 03 20
Number of last ensemble: 25119
Time of last ensemble: 2004 06 14 16 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	610	450	188	61	208	993
2	585	475	189	60	208	991
3	560	500	190	58	209	992
4	535	525	193	55	208	990
5	510	550	197	51	208	991
6	485	575	202	45	207	990
7	460	600	208	40	204	989
8	435	625	216	37	200	986
9	410	650	224	33	193	984
10	385	675	232	28	188	986
11	360	700	238	25	184	990
12	335	725	246	22	178	988
13	310	750	252	20	171	985
14	285	775	258	19	163	984
15	260	800	266	17	154	978
16	235	825	271	15	138	966
17	210	850	277	17	113	942
18	185	875	282	20	93	906
19	160	900	286	21	77	847
20	135	925	288	20	62	780
21	110	950	290	14	37	681
22	85	975	294	4	322	561

NWSC0307 ADCP 1245

Harmonic constants for constituent M2 for deployment NWSC0307.

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	610	145	256	115	251	185	8	38	254	A
02	585	140	257	119	253	183	7	40	255	A
03	560	136	258	122	255	182	5	42	257	A
04	535	131	259	124	257	180	2	43	258	A
05	510	124	260	126	260	177	1	46	260	C
06	485	119	260	127	263	174	4	47	262	C
07	460	116	260	127	265	172	7	48	263	C
08	435	111	262	131	266	172	6	50	265	C
09	410	106	265	135	268	172	4	52	267	C
10	385	102	266	139	270	172	5	54	268	C
11	360	98	267	142	270	172	5	55	269	C
12	335	96	269	144	272	173	3	56	271	C
13	310	93	269	144	274	171	6	57	272	C
14	285	87	269	146	276	169	9	59	274	C
15	260	84	270	150	276	171	8	61	275	C
16	235	84	271	151	277	172	8	61	276	C
17	210	82	271	149	278	170	9	61	276	C
18	185	86	273	147	278	170	6	60	277	C
19	160	85	273	149	277	171	5	60	276	C
20	135	82	272	152	279	172	9	62	277	C
21	110	83	271	159	280	179	12	62	278	C
22	85	78	271	157	280	175	11	64	278	C

Harmonic constants for constituent S2 for deployment NWSC0307.

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	610	40	291	44	302	59	6	47	297	C
02	585	38	288	42	306	56	9	48	298	C
03	560	36	288	44	309	56	10	51	301	C
04	535	37	291	44	309	57	9	50	302	C
05	510	39	292	46	304	60	6	50	299	C
06	485	42	294	48	301	64	4	48	298	C
07	460	44	297	48	301	65	2	48	299	C
08	435	46	296	47	297	66	1	46	297	C
09	410	46	295	46	297	65	1	44	296	C
10	385	45	293	43	298	62	3	44	295	C
11	360	43	289	42	300	60	6	44	294	C
12	335	44	290	44	298	62	5	45	294	C
13	310	46	292	45	298	65	4	44	295	C
14	285	46	293	45	299	64	3	44	296	C
15	260	47	297	45	302	65	3	44	299	C
16	235	47	301	46	305	66	2	44	303	C
17	210	47	301	48	310	67	5	46	306	C
18	185	46	302	49	310	67	5	46	306	C
19	160	48	299	45	310	66	6	43	304	C
20	135	44	293	45	306	63	7	45	299	C
21	110	43	295	40	297	59	1	43	296	C
22	85	43	301	35	299	55	1	39	301	A

NWSC0307 ADCP 1245

Harmonic constants for constituent N2 for deployment NWSC0307.

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	610	29	217	17	237	33	5	29	222	C
02	585	30	219	18	237	34	5	30	223	C
03	560	29	220	18	235	34	4	31	224	C
04	535	30	222	18	226	35	1	31	223	C
05	510	30	229	21	229	36	0	35	229	C
06	485	29	238	26	228	39	3	42	233	A
07	460	28	244	32	232	42	4	48	237	A
08	435	26	254	36	238	45	6	54	243	A
09	410	28	264	40	238	48	10	56	246	A
10	385	27	268	41	239	47	12	58	247	A
11	360	26	276	44	243	49	12	62	251	A
12	335	26	279	45	246	51	13	62	254	A
13	310	26	283	46	247	52	14	63	255	A
14	285	27	284	49	245	54	16	64	253	A
15	260	30	283	51	243	56	18	63	252	A
16	235	31	283	50	240	56	19	62	250	A
17	210	33	282	48	239	55	20	59	251	A
18	185	31	279	51	241	57	17	62	250	A
19	160	33	280	49	238	56	20	59	250	A
20	135	31	282	52	240	58	19	63	250	A
21	110	32	279	50	242	57	17	60	252	A
22	85	35	270	49	240	59	15	56	250	A

Harmonic constants for constituent O1 for deployment NWSC0307.

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	610	9	14	9	44	12	3	47	30	C
02	585	8	8	8	46	11	4	44	26	C
03	560	9	6	8	41	12	4	40	21	C
04	535	10	8	8	37	12	3	41	21	C
05	510	10	8	9	39	13	3	40	21	C
06	485	11	9	9	41	14	4	36	20	C
07	460	9	12	8	46	12	4	41	27	C
08	435	8	7	7	37	11	3	41	20	C
09	410	7	11	7	38	10	2	44	24	C
10	385	7	16	7	40	10	2	46	28	C
11	360	7	8	7	38	10	3	45	24	C
12	335	8	5	6	34	10	2	39	16	C
13	310	8	8	7	26	10	2	44	17	C
14	285	7	12	8	27	10	1	52	21	C
15	260	6	12	6	32	9	2	47	23	C
16	235	5	359	7	25	8	2	54	16	C
17	210	3	26	6	24	7	0	62	24	A
18	185	6	41	6	34	9	1	44	38	A
19	160	7	59	6	14	9	3	37	42	A
20	135	5	65	8	12	9	3	66	22	A
21	110	8	36	7	14	11	2	43	26	A
22	85	6	15	5	348	8	2	37	5	A

NWSC0307 ADCP 1245

Harmonic constants for constituent K1 for deployment NWSC0307.

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	610	7	236	3	238	8	0	19	236	C
02	585	6	230	3	231	7	0	25	231	C
03	560	6	234	3	194	7	2	18	229	A
04	535	7	232	3	219	8	1	23	230	A
05	510	7	222	4	223	8	0	28	222	C
06	485	7	231	3	216	8	1	24	229	A
07	460	7	225	4	190	8	2	27	218	A
08	435	7	224	4	181	8	3	25	216	A
09	410	7	230	5	172	8	4	30	213	A
10	385	6	226	6	185	8	3	42	208	A
11	360	4	231	5	178	6	3	60	193	A
12	335	0	184	6	157	6	0	88	157	A
13	310	3	133	7	159	7	1	68	155	C
14	285	5	165	9	158	10	1	58	160	A
15	260	10	173	10	150	14	3	46	161	A
16	235	11	169	8	146	13	3	38	160	A
17	210	10	172	5	187	11	1	27	175	C
18	185	10	170	9	247	10	8	30	194	C
19	160	10	179	13	282	13	10	114	300	C
20	135	8	151	20	283	21	6	106	288	C
21	110	8	141	21	290	23	4	110	294	C
22	85	10	161	23	301	24	6	110	306	C

NWSC0307 Aanderaa 718

Deployment: NWSC0307 analyzed from beginning to end
 Instrument no.: 718
 Instrument type: Aanderaa
 Latitude: 60 33.980 N
 Longitude: 04 46.167 W
 Bottom depth: 1060
 Instrument depth: 752
 Number of records: 8269
 Time of first record: 2003 07 06 03 30
 Time of last record : 2004 06 14 15 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	8269	0
Column 8 : Speed	8269	0
Column 9 : Direct	8269	0

Comments

Residual current: 53 mm/sec towards: 212 degrees

TIDAL ANALYSIS

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

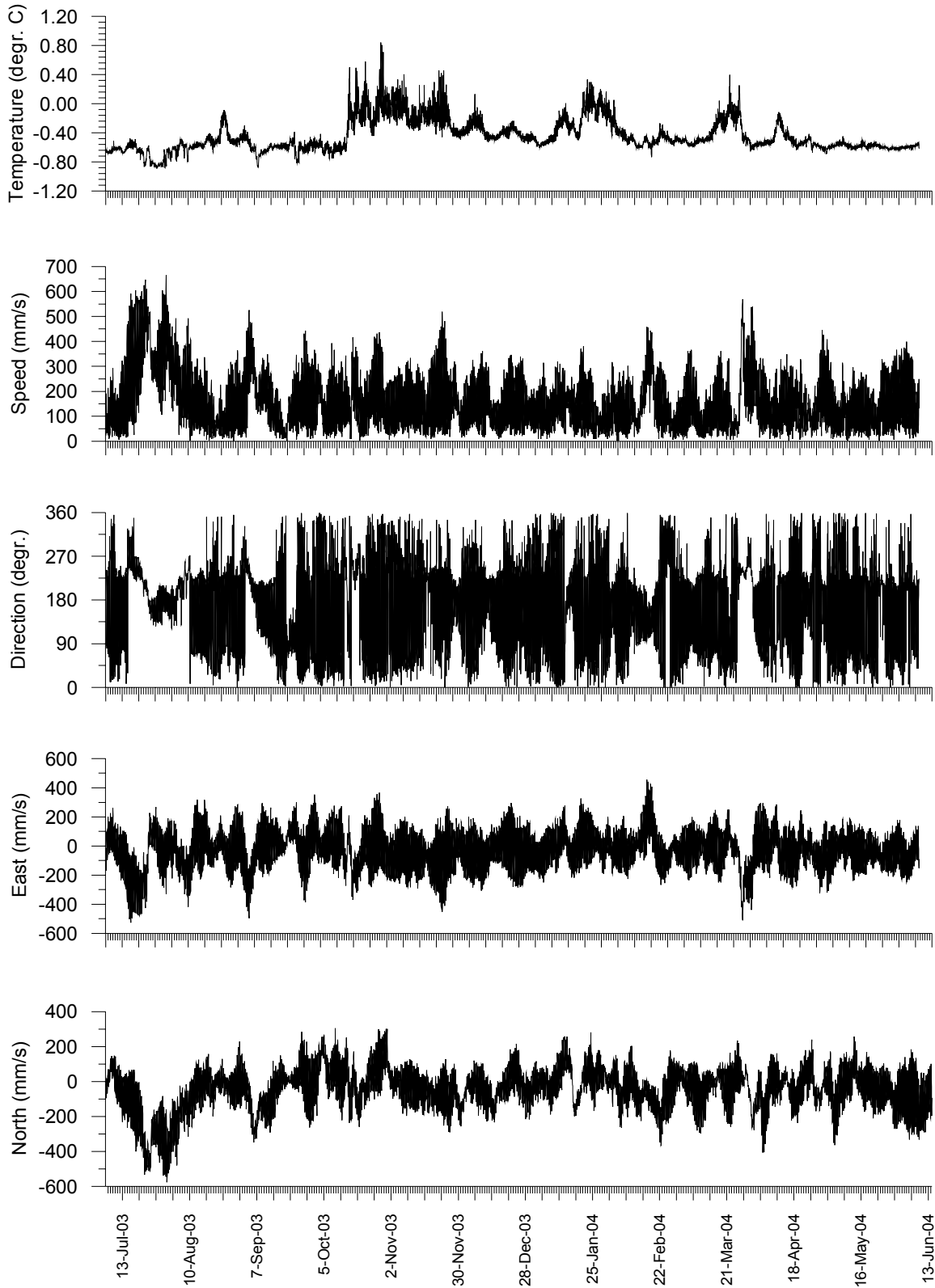
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	11	54	12	81	16	4	49	69	C
MSF	.00282193	8	51	9	140	9	8	85	135	C
Q1	.03721850	3	327	3	354	4	1	53	344	C
O1	.03873065	8	16	8	46	11	3	43	30	C
NO1	.04026859	1	254	1	257	1	0	32	255	C
P1	.04155259	2	287	1	300	3	0	32	291	C
K1	.04178075	6	245	2	255	7	0	22	247	C
N2	.07899925	30	208	9	238	31	4	14	210	C
M2	.08051140	145	255	96	243	173	17	33	252	A
L2	.08202355	4	257	3	175	4	3	14	246	A
S2	.08333334	43	300	42	297	60	2	44	299	A
K2	.08356149	8	305	13	306	15	0	58	306	C
MK3	.12229210	1	229	1	175	1	1	56	193	A
M4	.16102280	1	223	2	342	2	1	108	349	C
MS4	.16384470	2	300	1	331	2	0	17	303	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	12	12	12	11	9	9	9	14	11	7	7	10	124	124
50 - 100	16	26	28	18	11	10	20	29	26	14	10	10	219	343
100 - 150	10	33	29	11	8	10	15	40	25	10	4	4	199	542
150 - 200	6	26	21	5	5	5	15	44	25	5	2	2	160	703
200 - 300	5	24	20	5	7	7	17	70	33	2	1	1	192	895
300 - 400	0.36	8	2	2	2	4	12	28	10	0	0	0	70	964
400 - 500	0	1	0.12	1	0	3	6	8	5	0	0	0	24	988
500 - 600	0	0	0	0	0	1	3	4	3	0	0	0	10	998
600 - 700	0	0	0	0	0	0	1	1	0	0	0	0	2	1000
Total (ppt)	50	130	113	53	41	50	99	237	138	38	24	26		
Rel. flux (ppt)	33	125	96	39	33	49	121	302	154	23	12	12		
Avg. spd (mm/s)	105	156	138	120	127	159	199	206	180	99	79	76		
Max. spd (mm/s)	320	437	416	458	384	519	666	648	592	284	252	226		

NWSC0307
Instrument: Aanderaa 718



Progressive vector diagram

NWSC0307: Aanderaa 718

