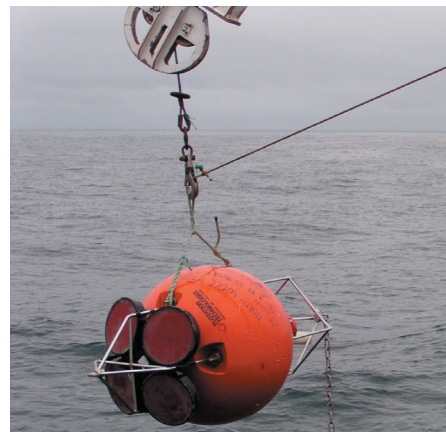


THOR ADCP Deployments in Faroese Waters 2009 - 2010

Tórshavn · December 2010



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Introduction.....	3
Quality control and calibration	4
Report format	4
NWFB0906	6
NWFC0906	15
NWNA0906.....	22
NWNB0906	29
NWNE0906.....	36
NWNG0906	43
NWSC0906.....	53
NWSX0906	63
NWSY0908	66

Introduction

This report documents nine ADCP deployments in Faroese waters in 2009 – 2010. Aanderaa Current Meters are included in two, and Microcats in two of the deployments. The deployments are listed in Table 1. Each deployment is identified by an 8-character label where the first four characters indicate the site (Fig. 1) while the last characters show year and month of deployment. Most of the moorings were located at standard (Nordic WOCE) sites. There were no ADCP data from the mooring at site NWSX due to battery case failure.

At sites NWFB, NWFC, NWNB, NWNG, NWSC and NWSY, 75 kHz RDI ADCP's were placed in the top of single-point moorings. At sites NWNA, NWNE, and NWSX, "shallow-water" rigs were used, where a RDI ADCP was placed on the bottom inside a protective aluminium frame. At sites NWSX and NWSY the instruments were 75 kHz Long Rangers. The other ADCP's were all 75 kHz RDI Broadband ADCP 's except at sites NWNA and NWNE where the instruments were 150 kHz Broadbands. For each deployment, the ADCP measures the velocity averaged over a number (15 – 62) of depth layers ("bins") which were 25 m for all rigs except for the deployments NWNA and NWSY where the depth layers were 10 m. At 20 minute intervals, the ADCP records the data from all bins into "ensembles". In all deployments, except NWSY, each ensemble is based only upon one ping. In deployment NWSY, each ensemble is based upon 10 pings. At sites NWNG and NWSC, an Aanderaa current meter was on the mooring line below the ADCP. The Aanderaa current meters recorded speed, direction and temperature at 60 minute intervals. At deployments NWFB and NWSX, a Microcat was attached to the ADCP. The Microcat recorded temperature, salinity and pressure every 10 minutes.

At NWFB, the data for the uppermost bins were affected by some instrumental malfunction. Therefore only the deepest 16 bins are included in this record.

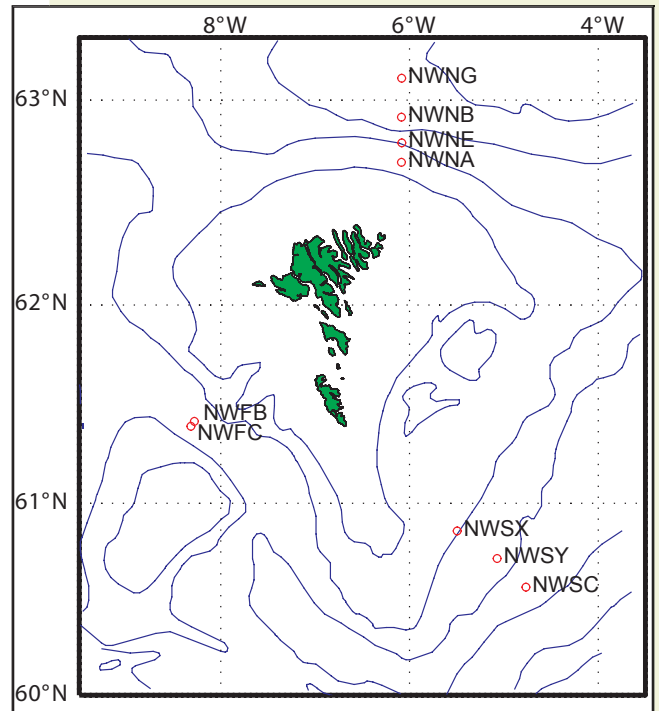


Figure 1. ADCP mooring sites in Faroese waters 2009-2010 superposed on a map with the bottom topography. Each site is indicated by a four-letter label.

Table 1. List of deployments with information on duration and range of valid data. All depths are in meters. The last column indicates whether Aanderaa or Microcat instruments were on the mooring.

Deployment	Bottom Int. depth min.	Valid data period	Dur. No days bins Depthrange	Comments
NWFB0906	812 20	2009 06 07-2010 05 15	341 16 396- 771	Microcat
NWFC0906	841 20	2009 06 07-2010 05 15	341 25 200- 800	
NWNA0906	301 20	2009 06 05-2010 05 14	343 24 54- 284	
NWNB0906	959 20	2009 06 05-2010 05 14	343 23 120- 670	
NWNE0906	455 20	2009 06 05-2010 05 14	343 15 73- 423	
NWNG0906	1810 20	2009 06 05-2010 05 14	343 23 57- 607	Aanderaa
NWSC0906	1065 20	2009 06 07-2010 05 17	344 22 86- 611	Aanderaa
NWSX0906	552 -	2009 06 06-2010 05 17	- - -	Microcat
NWSY0908	910 20	2009 08 30-2010 05 17	259 62 69- 679	

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 Faroe Marine Research Institute (FAMRI), based upon MATLAB. The editing has been done with a philosophy of minimal interference. Thus, only observations, which were considered clearly erroneous, were flagged. Generally, the series have been edited up to the level where about 50% of the observations were found to be valid. Bins above this level have not been included. The velocity direction has been corrected for magnetic deviation, by adding a constant as indicated in the header of the data file. The instrument depths are found using the data from the surface echo, except for the sites NWFB, NWFC, NWSX, and NWSY. The instrument depth at site NWFC is found from the echo sounding depth (corrected for change in sound velocity) and the length of the mooring line. The instrument depths at sites NWFB and NWSX are found from the Microcat pressure measurements, and the instrument depth at site NWSY is found from the ADCP pressure measurements.

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

Data from the Microcat instruments have been quality controlled by a standard procedure based upon data variation with time in relation to neighbouring values (spikes). The editing has been done manually using an interactive graphical software package developed by FAMRI, based upon MATLAB. In addition the salinity data have been edited by removing all consecutive salinity pairs, where there is a large jump in the temperature. The data from the MicroCat at site NWSX indicate a drift in salinity.

Report format

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

The description of the Aanderaa current meter data includes first a text page listing metadata information in the header and showing the list of parameters in the data file with a tally of the number of records flagged and not flagged for error in each parameter. Any comments to the data are then listed. The rest of the text page describes features of the velocity observations in the series. First is shown the residual current, defined as the vectorial average of all non-flagged records. Next are shown the results of tidal analysis on the

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

The Microcat data 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. There are, however, no ADCP data from the deployment at site NWSX.

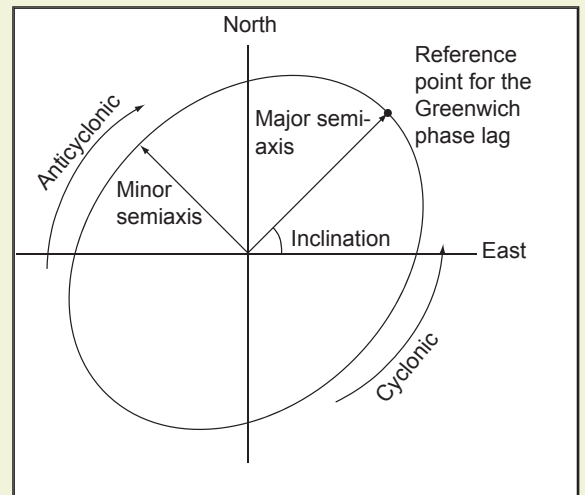


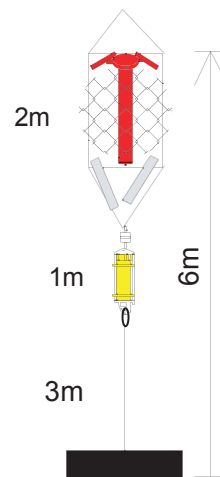
Figure 2. Parameters of the tidal ellipse for a given constituent. The reference point for the Greenwich phase lag is always chosen to be above the east-west axis.

NWFB0906

Latitude: 61°25.000'N
Longitude: 008°16.800'W
Echo sounding depth: 828 m
Bottom depth corr.: 812 m
Time of deployment: 7/6 - 2009 1938 UTC
Time of recovery: 15/5 - 2010 1922 UTC

ADCP:

Instrument no.: RDI ADCP 1642
Instrument frequency: 75 kHz
Height above bottom: 6 m
Depth: 806 m (corr.)
Time of first data: 7/6 - 2009 2000 UTC
Time of last data: 15/05 - 2010 1900 UTC
Sample interval: 20 min
No. of ensembles: 24622
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 771 m (corr.)
No. of bins: 16



Micro Cat:

Instrument no.: 1993
Height above bottom: 5 m
Time of first data: 07/06 - 2009 1950 UTC
Time of last data: 15/05 - 2010 1920 UTC
Sample interval: 10 min
No. of ensembles: 49246
Instrument depth: 807 m

Data:

The ADCP data for the uppermost bins were affected by some instrumental malfunction.

NWFB0906 ADCP 1642

Error statistics for deployment: NWFB0906 updated 2010/11/30

 Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature data edited by EJ in Sep 2010
 Velocity edited up to and including bin 16 by EJ in Jun 2010
 Intensity edited up to and including bin 16 by EJ in Sep 2010

Total number of ensembles: 24622
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 16
 Number of acceptable intensity bins: 16

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: 7

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	2	82	0	73	3	1	0	0	0	0	0	0	0	0
2	5	42	0	40	1	0	0	0	0	0	0	0	0	0
3	2	33	0	33	0	0	0	0	0	0	0	0	0	0
4	2	32	0	32	0	0	0	0	0	0	0	0	0	0
5	2	33	0	31	1	0	0	0	0	0	0	0	0	0
6	1	39	0	35	2	0	0	0	0	0	0	0	0	0
7	0	60	0	52	4	0	0	0	0	0	0	0	0	0
8	0	171	1	144	9	3	0	0	0	0	0	0	0	0
9	0	389	2	311	30	2	3	0	0	0	0	0	0	0
10	3	519	2	385	42	11	3	1	0	0	0	0	0	0
11	0	442	2	343	32	5	5	0	0	0	0	0	0	0
12	0	410	2	332	27	8	0	0	0	0	0	0	0	0
13	1	365	1	280	22	6	2	0	2	0	0	0	0	0
14	1	399	2	289	29	7	1	1	3	0	0	0	0	0
15	1	527	2	316	62	14	5	2	2	0	0	0	0	0
16	3	910	4	475	90	32	13	8	9	0	0	0	0	0

NWFB0906 ADCP 1642

Deployment: NWFB0906 updated 2010/11/30
Instrument no.: 1642
Instrument freq.: 75
Latitude: 61 25.000 N
Longitude: 08 16.800 W
Bottom depth: 812
Instrument depth: 806
Center depth of first bin: 771
Bin length: 25
Number of bins: 16
Number of first ensemble: 93
Time of first ensemble: 2009 06 07 20 00
Number of last ensemble: 24714
Time of last ensemble: 2010 05 15 19 00
Time between ensembles (min.): 20
All directions have been corrected by adding: -8.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	771	41	967	963	307	997
2	746	66	1038	1034	310	998
3	721	91	1063	1060	312	999
4	696	116	1068	1065	313	999
5	671	141	1064	1061	314	999
6	646	166	1043	1040	315	998
7	621	191	989	983	316	998
8	596	216	881	870	319	993
9	571	241	727	705	323	984
10	546	266	567	523	327	979
11	521	291	427	355	331	982
12	496	316	327	230	334	983
13	471	341	268	150	337	985
14	446	366	239	104	341	984
15	421	391	227	80	347	979
16	396	416	229	71	351	963

NWFB0906 ADCP 1642

Deployment: NWFB0906

Frequency of high speeds.

=====

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

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=====
Bin|Depth|
no.|  m|    10   20   30   40   50   60   70   80   90  100  110  120  130  140  150  160  170  180
-----|-----|
 1| 771|  997  997  997  997  997  995  976  893  695  401  155   38    6    1    0    0    0    0
 2| 746|  998  998  998  998  998  998  992  956  852  624  326  104   18    3    0    0    0    0
 3| 721|  999  999  999  999  999  999  995  969  888  699  410  141   27    3    0    0    0    0
 4| 696|  999  999  999  999  999  999  994  972  895  716  428  149   27    3    0    0    0    0
 5| 671|  999  999  999  999  999  998  993  969  887  703  416  142   24    2    0    0    0    0
 6| 646|  998  998  998  998  998  995  985  942  841  647  378  125   19    2    0    0    0    0
 7| 621|  998  998  997  995  986  967  925  848  727  536  288   89   13    1    0    0    0    0
 8| 596|  992  986  972  947  908  856  788  690  546  353  164   47    7    1    0    0    0    0
 9| 571|  971  931  880  823  759  679  583  458  315  176   71   17    3    0    0    0    0    0
10| 546|  942  855  760  663  565  458  349  242  141   66   21    4    1    0    0    0    0    0
11| 521|  921  778  619  474  353  248  160   91   43   14    3    0    0    0    0    0    0    0
12| 496|  896  690  471  299  185  106   51   21    6    1    0    0    0    0    0    0    0    0
13| 471|  869  609  353  184   86   36   12    3    0    0    0    0    0    0    0    0    0    0
14| 446|  844  546  286  125   47   14    2    0    0    0    0    0    0    0    0    0    0    0
15| 421|  824  513  256  104   33    8    1    0    0    0    0    0    0    0    0    0    0    0
16| 396|  809  508  257  108   34    9    2    0    0    0    0    0    0    0    0    0    0    0

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NWFB0906 ADCP 1642

Harmonic constants for constituent M2 for deployment NWFB0906.

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	30	54	24	320	30	24	169	243	A
02	746	34	59	24	321	34	24	169	247	A
03	721	33	66	22	322	34	21	165	255	A
04	696	32	75	19	322	33	17	161	265	A
05	671	29	85	17	313	32	12	155	275	A
06	646	27	103	16	297	31	3	149	286	A
07	621	29	134	18	270	32	11	151	303	C
08	596	36	161	20	257	36	20	176	339	C
09	571	42	192	21	239	45	15	21	199	C
10	546	54	217	30	199	61	8	28	213	A
11	521	66	233	53	177	75	38	34	213	A
12	496	73	241	76	170	86	61	48	203	A
13	471	78	246	93	168	97	73	65	188	A
14	446	78	251	101	170	103	75	74	183	A
15	421	78	255	106	173	107	76	78	181	A
16	396	76	261	110	176	111	76	82	182	A

Harmonic constants for constituent S2 for deployment NWFB0906.

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	13	93	10	29	14	8	28	77	A
02	746	16	101	9	27	16	8	11	95	A
03	721	15	106	9	28	15	8	10	100	A
04	696	13	106	6	20	13	6	2	105	A
05	671	9	112	4	353	9	3	166	297	A
06	646	7	140	5	316	9	0	146	319	C
07	621	13	172	6	300	13	5	160	345	C
08	596	15	199	8	303	15	7	170	14	C
09	571	17	235	7	268	18	4	20	239	C
10	546	21	267	16	218	24	10	34	250	A
11	521	29	288	30	214	33	25	50	246	A
12	496	34	294	39	212	40	33	66	233	A
13	471	33	292	41	211	42	32	72	225	A
14	446	31	289	40	211	41	29	71	224	A
15	421	29	291	40	212	41	28	75	223	A
16	396	28	292	40	216	41	27	74	226	A

NWFB0906 ADCP 1642

Harmonic constants for constituent N2 for deployment NWFB0906.

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	8	48	5	311	8	5	174	231	A
02	746	9	55	5	309	9	5	167	242	A
03	721	9	55	5	306	9	5	167	242	A
04	696	9	57	4	316	9	4	172	241	A
05	671	8	68	3	310	8	3	167	253	A
06	646	7	66	5	284	8	3	149	257	A
07	621	7	59	5	254	9	1	145	244	A
08	596	4	67	9	226	9	1	112	229	C
09	571	2	138	11	222	11	2	89	222	C
10	546	4	215	11	224	12	1	69	223	C
11	521	11	215	11	186	15	4	45	201	A
12	496	13	199	13	152	17	7	45	176	A
13	471	14	196	14	143	17	9	45	169	A
14	446	12	206	15	146	17	9	58	165	A
15	421	12	216	18	151	19	10	66	165	A
16	396	14	221	21	151	22	13	69	164	A

Harmonic constants for constituent O1 for deployment NWFB0906.

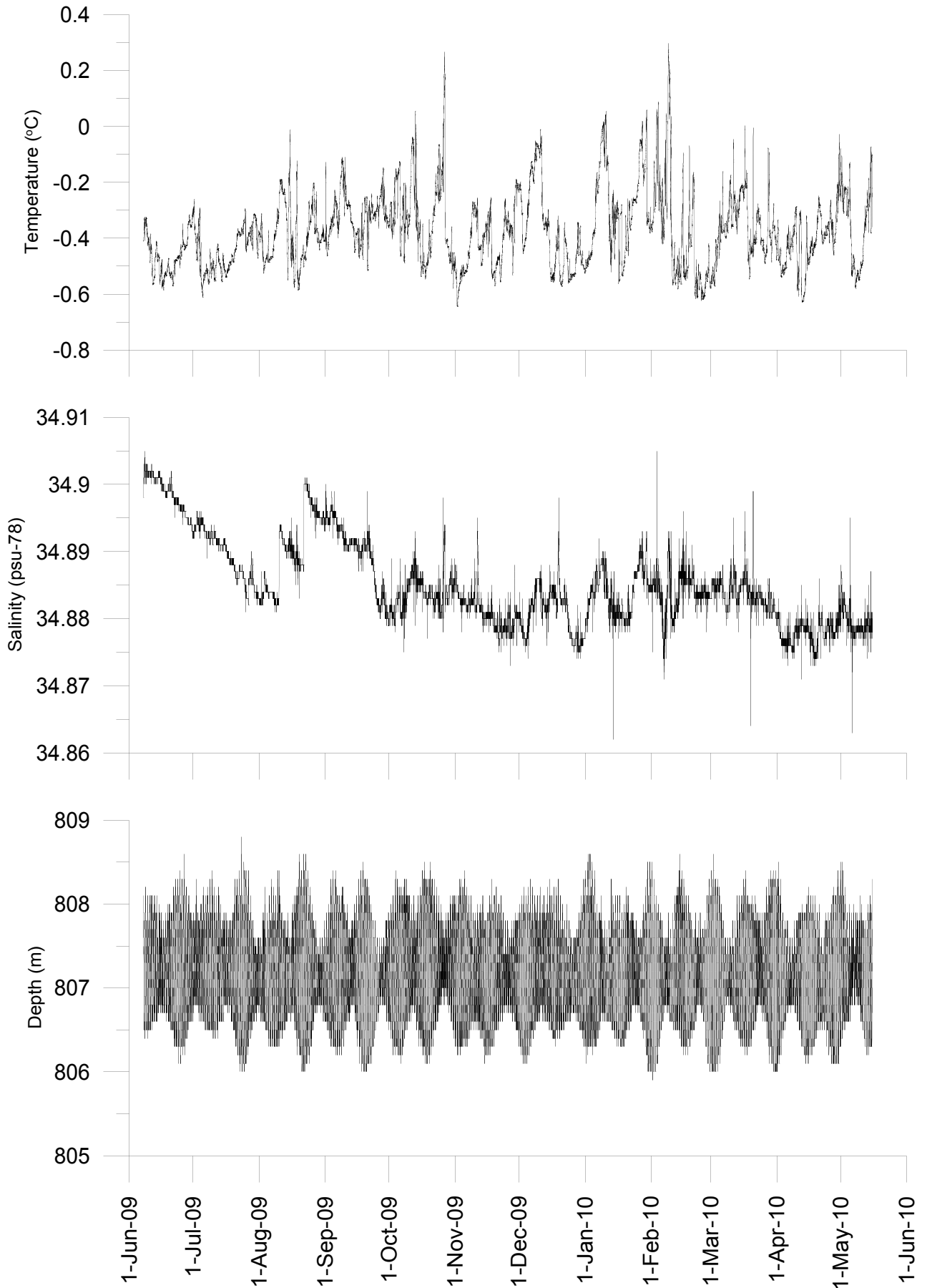
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	771	16	323	9	157	19	2	152	146	A
02	746	19	322	10	152	21	1	152	145	A
03	721	19	321	11	148	22	1	150	143	A
04	696	18	324	12	148	21	1	145	145	A
05	671	18	331	12	144	22	1	145	149	C
06	646	21	333	13	142	25	2	148	150	C
07	621	27	334	16	145	31	2	149	152	C
08	596	30	340	23	147	38	4	142	155	C
09	571	30	346	27	155	40	4	137	161	C
10	546	25	357	27	167	36	3	132	171	C
11	521	17	358	23	174	28	1	127	175	C
12	496	14	3	21	176	25	1	123	178	C
13	471	11	11	18	181	22	2	122	184	C
14	446	12	20	17	189	21	2	125	193	C
15	421	13	28	17	195	21	2	128	200	C
16	396	14	25	18	200	23	1	128	202	C

NWFB0906 ADCP 1642

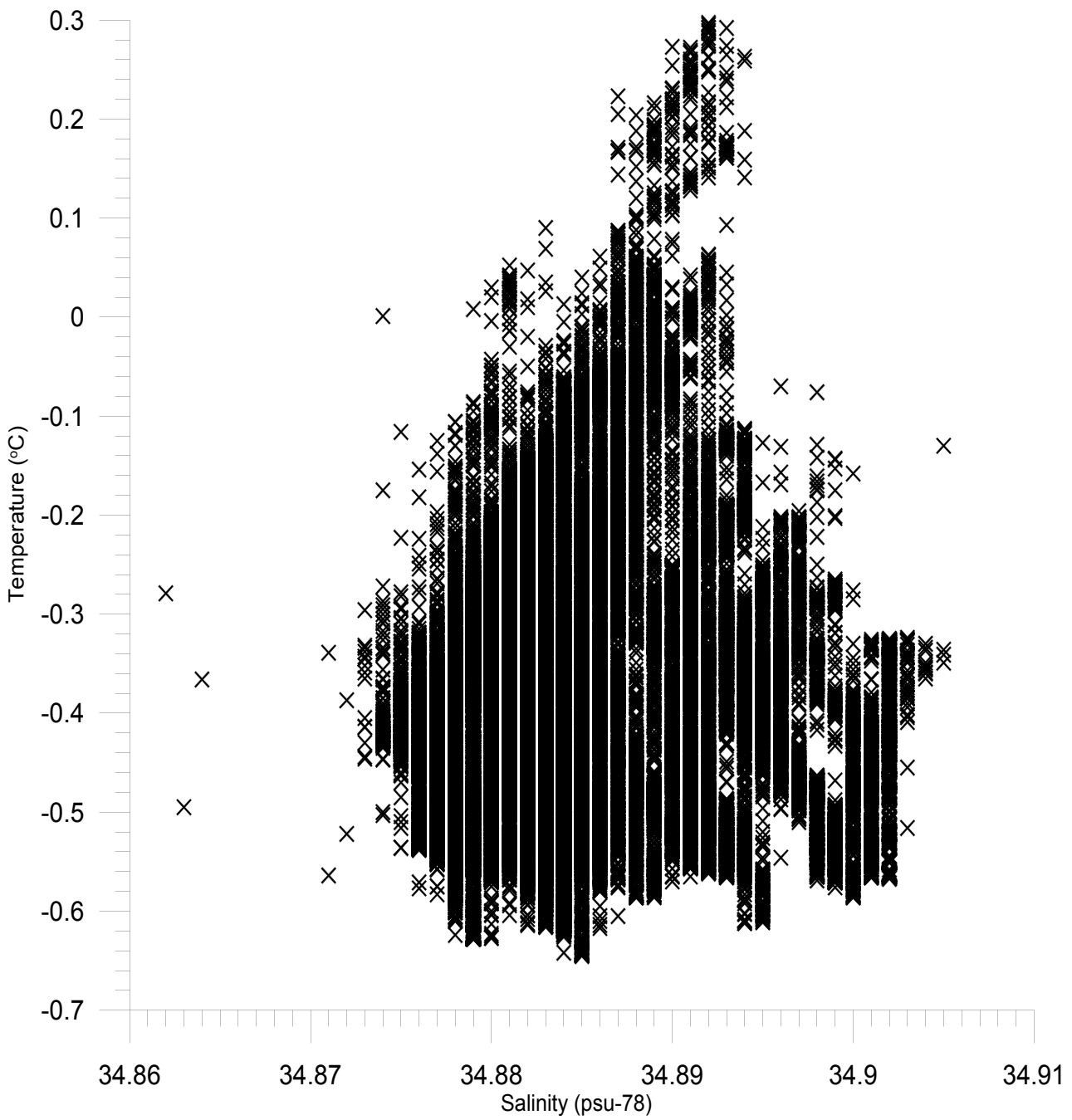
Harmonic constants for constituent K1 for deployment NWFB0906.

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	13	218	9	54	15	2	145	43	A
02	746	14	221	9	59	17	2	148	46	A
03	721	16	223	10	60	19	3	147	48	A
04	696	16	220	11	59	19	3	144	46	A
05	671	16	222	12	54	20	2	143	47	A
06	646	19	229	12	58	23	2	147	51	A
07	621	24	235	16	62	29	2	146	57	A
08	596	28	237	22	64	36	2	142	60	A
09	571	28	236	28	63	39	2	135	60	A
10	546	24	233	30	65	38	4	129	60	A
11	521	19	234	30	69	36	4	122	65	A
12	496	14	242	28	74	32	3	116	71	A
13	471	9	252	25	80	27	1	110	79	A
14	446	6	281	21	84	21	2	106	86	C
15	421	5	300	18	93	19	2	104	95	C
16	396	4	288	17	100	17	1	104	100	C

NWFB0906 MicroCat 1993



NWFB0906 MicroCat 1993



NWFCo906

Latitude: 61°23.550'N

Longitude: 008°19.010'W

Echo sounding depth: 850 m

Bottom depth corr.: 841 m

Time of deployment: 7/6 - 2009 1920 UTC

Time of recovery: 15/5 - 2010 1824 UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75 kHz

Height above bottom: 6 m

Depth: 835 m (corr.)

Time of first data: 7/6 - 2009 1940 UTC

Time of last data: 15/5 - 2010 1800 UTC

Sample interval: 20 min

No. of ensembles: 24620

Pings per ens.: 1

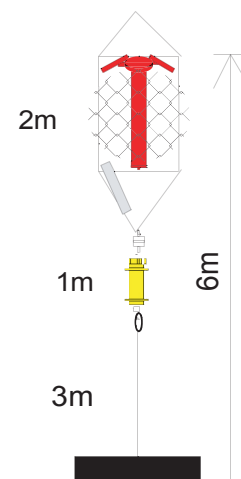
Binlength: 25 m

Depth of first bin: 800 m (corr.)

No. of bins: 25

Data:

All data ok.



NWFC0906 ADCP 1285

Error statistics for deployment: NWFC0906 updated 2010/11/04

Surface distance invalid due to range limitation

Heading, pitch and roll not edited

Temperature edited by EJ in Sep 2010

Velocity edited up to and including bin 25 by EJ in Jun 2010

Intensity edited up to and including bin 25 by EJ in Sep 2010

Total number of ensembles: 24620

Interval between ensembles: 20 min

Original number of bins: 32

Number of acceptable velocity bins: 25

Number of acceptable intensity bins: 25

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

Number of temperature ens. flagged: 3

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

Bin	Int. ens. flgd	Velocity ens. flgd	Velocity % flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	6	152	1	145	2	1	0	0	0	0	0	0	0	0
2	4	81	0	75	3	0	0	0	0	0	0	0	0	0
3	6	124	1	101	5	2	0	0	1	0	0	0	0	0
4	2	558	2	348	68	17	2	3	0	0	0	0	0	0
5	2	1308	5	662	173	49	15	10	7	0	0	0	0	0
6	0	1847	8	1007	239	66	15	8	9	0	0	0	0	0
7	1	2403	10	1384	307	81	22	7	6	0	0	0	0	0
8	1	2672	11	1572	366	82	25	3	1	0	0	0	0	0
9	2	2061	8	1242	287	50	17	3	2	0	0	0	0	0
10	1	1436	6	882	182	38	11	5	1	0	0	0	0	0
11	4	856	3	591	89	17	3	2	2	0	0	0	0	0
12	0	507	2	385	44	7	2	1	0	0	0	0	0	0
13	3	367	1	272	32	7	0	2	0	0	0	0	0	0
14	2	317	1	245	19	10	1	0	0	0	0	0	0	0
15	2	260	1	201	18	5	2	0	0	0	0	0	0	0
16	1	216	1	177	13	3	1	0	0	0	0	0	0	0
17	3	224	1	153	23	4	2	1	0	0	0	0	0	0
18	1	249	1	173	18	5	1	3	1	0	0	0	0	0
19	2	626	3	224	53	12	9	3	13	6	1	0	0	0
20	1	1474	6	439	97	28	26	11	15	16	11	0	0	0
21	3	2993	12	760	191	93	51	28	61	31	10	2	0	0
22	5	4947	20	1012	301	122	76	45	100	74	21	2	0	0
23	3	6902	28	1094	368	147	99	70	141	77	46	15	0	0
24	5	8860	36	1255	359	171	105	69	212	140	41	21	4	4
25	2	11012	45	1328	385	187	118	65	220	158	76	40	2	2

NWFC0906 ADCP 1285

Deployment: NWFC0906 updated 2010/11/04
 Instrument no.: 1285
 Instrument freq.: 75
 Latitude: 61 23.550 N
 Longitude: 08 19.010 W
 Bottom depth: 841
 Instrument depth: 835
 Center depth of first bin: 800
 Bin length: 25
 Number of bins: 25
 Number of first ensemble: 381
 Time of first ensemble: 2009 06 07 19 40
 Number of last ensemble: 25000
 Time of last ensemble: 2010 05 15 18 00
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -8.0

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	800	41	1033	1024	301	994
2	775	66	1113	1105	304	997
3	750	91	1133	1126	307	995
4	725	116	1126	1119	308	977
5	700	141	1097	1089	308	947
6	675	166	1007	997	309	925
7	650	191	821	794	310	902
8	625	216	600	526	314	891
9	600	241	416	280	322	916
10	575	266	299	116	338	942
11	550	291	237	48	37	965
12	525	316	212	58	85	979
13	500	341	202	70	98	985
14	475	366	199	76	104	987
15	450	391	197	78	107	989
16	425	416	196	79	110	991
17	400	441	196	80	113	991
18	375	466	197	81	116	990
19	350	491	197	81	117	975
20	325	516	197	81	116	940
21	300	541	197	80	115	878
22	275	566	197	77	116	799
23	250	591	199	77	116	720
24	225	616	200	74	116	640
25	200	641	199	69	116	553

NWFC0906 ADCP 1285

Frequency of high speeds.

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

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Bin Depth	no. m	Speed (cm/s)																
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
1 800	994	993	993	993	992	988	977	931	804	594	339	135	35	6	1	0	0	0
2 775	996	996	996	995	994	992	988	972	917	785	562	292	92	17	2	0	0	0
3 750	995	995	994	993	992	990	986	976	931	822	620	345	119	22	3	0	0	0
4 725	977	977	976	976	974	971	967	954	903	785	591	330	114	22	3	1	0	0
5 700	947	946	945	944	940	933	916	883	814	694	521	301	107	23	4	1	0	0
6 675	922	915	905	891	874	846	807	749	664	545	398	228	85	20	3	0	0	0
7 650	885	846	803	761	717	662	599	527	438	332	221	117	41	10	2	0	0	0
8 625	844	744	649	572	501	430	362	293	222	149	87	39	13	3	0	0	0	0
9 600	839	665	507	383	294	229	172	120	76	44	19	8	2	0	0	0	0	0
10 575	830	589	373	227	141	86	51	29	14	6	3	1	0	0	0	0	0	0
11 550	819	521	266	118	51	23	10	4	2	0	0	0	0	0	0	0	0	0
12 525	811	470	206	74	23	7	2	0	0	0	0	0	0	0	0	0	0	0
13 500	801	447	182	58	14	3	0	0	0	0	0	0	0	0	0	0	0	0
14 475	796	433	176	54	12	2	0	0	0	0	0	0	0	0	0	0	0	0
15 450	792	425	173	53	12	2	0	0	0	0	0	0	0	0	0	0	0	0
16 425	795	421	169	55	13	2	0	0	0	0	0	0	0	0	0	0	0	0
17 400	794	419	170	55	13	3	0	0	0	0	0	0	0	0	0	0	0	0
18 375	794	419	169	56	15	3	1	0	0	0	0	0	0	0	0	0	0	0
19 350	782	412	168	55	15	3	1	0	0	0	0	0	0	0	0	0	0	0
20 325	752	398	161	55	15	4	1	0	0	0	0	0	0	0	0	0	0	0
21 300	701	371	149	51	15	3	0	0	0	0	0	0	0	0	0	0	0	0
22 275	636	336	139	48	14	3	0	0	0	0	0	0	0	0	0	0	0	0
23 250	576	306	129	45	14	4	1	0	0	0	0	0	0	0	0	0	0	0
24 225	513	275	117	40	13	4	1	0	0	0	0	0	0	0	0	0	0	0
25 200	444	239	97	35	11	3	0	0	0	0	0	0	0	0	0	0	0	0

NWFC0906 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC0906.

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	800	11	92	12	305	16	5	133	290	A
02	775	14	84	13	303	18	6	137	282	A
03	750	15	76	16	293	21	7	132	276	A
04	725	16	67	19	291	23	9	128	274	A
05	700	20	83	24	304	29	11	128	288	A
06	675	36	110	34	318	48	12	137	303	A
07	650	58	121	43	321	71	12	144	308	A
08	625	62	137	32	321	69	2	153	318	A
09	600	50	169	8	154	50	2	8	168	A
10	575	45	211	45	152	55	32	45	182	A
11	550	53	234	68	155	70	50	72	169	A
12	525	56	243	77	161	78	55	79	169	A
13	500	56	251	81	166	81	56	83	171	A
14	475	58	259	83	172	83	58	87	174	A
15	450	59	267	85	177	85	59	91	176	A
16	425	59	274	87	181	87	59	93	179	A
17	400	61	279	89	186	89	61	94	183	A
18	375	62	282	91	188	91	62	95	185	A
19	350	64	285	92	191	92	64	95	187	A
20	325	64	287	91	193	92	64	96	189	A
21	300	67	290	93	195	93	66	96	191	A
22	275	66	289	92	198	92	66	92	196	A
23	250	69	292	91	200	91	69	94	197	A
24	225	73	296	94	203	94	73	94	200	A
25	200	75	300	96	205	96	74	98	199	A

Harmonic constants for constituent S2 for deployment NWFC0906.

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	800	5	122	4	314	6	1	139	307	A
02	775	6	112	6	311	8	1	135	301	A
03	750	6	94	6	307	8	2	139	288	A
04	725	7	88	6	309	9	3	139	286	A
05	700	9	129	7	325	11	2	141	315	A
06	675	20	146	12	359	22	6	151	334	A
07	650	29	159	14	4	32	6	155	344	A
08	625	26	189	7	41	27	3	167	11	A
09	600	20	248	11	168	20	11	8	244	A
10	575	24	281	23	195	24	22	23	260	A
11	550	24	299	32	205	32	24	97	199	A
12	525	24	306	36	211	36	24	96	207	A
13	500	24	307	36	214	36	24	93	212	A
14	475	23	310	36	216	36	23	95	213	A
15	450	22	311	36	218	36	22	93	216	A
16	425	22	315	36	220	36	22	96	216	A
17	400	21	322	36	222	36	21	99	217	A
18	375	20	326	36	225	36	20	99	220	A
19	350	21	330	33	231	33	20	99	226	A
20	325	22	338	31	236	31	22	105	226	A
21	300	23	341	29	239	30	22	108	226	A
22	275	20	339	28	239	28	19	103	230	A
23	250	21	342	31	245	31	20	97	241	A
24	225	18	347	32	244	32	17	100	239	A
25	200	19	356	31	252	31	18	102	245	A

NWFC0906 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC0906.

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	800	3	67	2	297	3	1	147	263	A
02	775	4	49	1	210	4	0	166	228	C
03	750	3	42	2	224	4	0	144	223	A
04	725	2	43	3	218	4	0	131	220	C
05	700	4	29	3	225	5	1	144	214	A
06	675	7	49	6	280	8	4	142	249	A
07	650	10	76	11	294	14	5	132	276	A
08	625	12	87	15	281	19	2	130	275	A
09	600	12	100	13	283	17	0	134	282	A
10	575	7	132	6	239	7	5	155	294	C
11	550	7	190	8	146	10	4	53	163	A
12	525	8	211	12	137	12	7	73	148	A
13	500	8	223	14	143	14	8	82	148	A
14	475	9	239	15	150	15	9	89	150	A
15	450	9	239	16	154	16	9	86	156	A
16	425	11	244	16	161	16	11	82	166	A
17	400	11	249	16	162	16	11	86	164	A
18	375	12	251	17	161	17	12	90	161	A
19	350	12	251	19	160	19	12	90	160	A
20	325	14	250	20	162	20	14	87	164	A
21	300	13	252	20	170	20	13	81	176	A
22	275	13	257	20	172	20	13	85	176	A
23	250	13	259	18	168	18	13	92	167	A
24	225	14	274	21	169	22	13	105	160	A
25	200	12	275	18	189	18	12	85	192	A

Harmonic constants for constituent O1 for deployment NWFC0906.

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	800	12	333	12	145	17	1	134	149	C
02	775	13	335	13	145	18	2	135	150	C
03	750	13	338	14	149	19	2	134	153	C
04	725	14	341	15	155	20	1	134	158	C
05	700	19	348	17	166	25	0	139	167	C
06	675	31	351	25	176	39	2	141	173	A
07	650	42	356	30	181	52	2	144	178	A
08	625	40	5	34	185	53	0	140	185	C
09	600	35	10	32	186	47	2	138	188	C
10	575	27	7	25	181	37	2	138	184	C
11	550	20	13	18	183	27	2	137	188	C
12	525	17	16	15	186	22	2	138	192	C
13	500	16	20	15	188	22	2	136	195	C
14	475	15	25	15	188	21	3	133	196	C
15	450	14	25	15	185	20	4	133	194	C
16	425	14	24	15	188	20	3	132	195	C
17	400	14	28	15	190	20	3	133	198	C
18	375	14	34	15	191	20	4	132	201	C
19	350	14	33	16	192	21	4	132	201	C
20	325	13	27	18	189	22	3	127	196	C
21	300	15	27	17	196	22	2	131	201	C
22	275	15	24	16	195	22	2	134	199	C
23	250	14	32	15	191	20	4	134	201	C
24	225	14	36	15	186	20	5	132	200	C
25	200	14	42	14	194	19	5	136	208	C

NWFC0906 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC0906.

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	800	7	237	10	44	12	1	126	49	C
02	775	8	231	9	43	12	1	131	46	C
03	750	9	225	11	44	14	0	129	44	C
04	725	9	222	14	48	16	1	124	46	A
05	700	12	239	13	53	18	1	131	55	C
06	675	21	248	18	60	28	2	139	65	C
07	650	33	252	26	73	42	0	141	72	A
08	625	32	246	26	75	41	3	140	70	A
09	600	28	243	25	73	37	3	138	68	A
10	575	21	249	23	76	31	2	132	73	A
11	550	15	263	20	84	25	0	128	84	A
12	525	13	269	20	87	24	0	123	88	C
13	500	11	274	19	86	22	1	120	88	C
14	475	9	281	18	84	20	2	117	88	C
15	450	8	283	18	80	20	3	111	84	C
16	425	6	282	19	79	20	2	107	81	C
17	400	6	288	21	77	21	3	104	79	C
18	375	5	292	23	79	23	3	102	81	C
19	350	5	285	22	81	22	2	103	82	C
20	325	8	278	19	77	21	3	111	80	C
21	300	10	284	19	77	21	4	117	82	C
22	275	11	287	19	82	21	4	120	89	C
23	250	12	283	20	81	22	4	120	86	C
24	225	10	282	18	73	20	4	117	79	C
25	200	6	275	13	59	14	3	113	65	C

NWNA0906

Latitude: 62°41.983'N

Longitude: 006°05.115'W

Echo sound depth: 298 m

Bottom depth corr.: 301 m

Time of deployment: 5/6 - 2009 0254 UTC

Time of recovery: 14/5 - 2010 0526 UTC

ADCP:

Instrument no.: RDI ADCP 1279

Instrument frequency: 150 kHz

Height above bottom: 1m

Depth: 300 m (corr.)

Time of first data: 5/6 - 2009 0320 UTC

Time of last data: 14/5 - 2010 0520 UTC

Sample interval: 20 min

No. of ensembles: 24703

Pings per ens.: 1

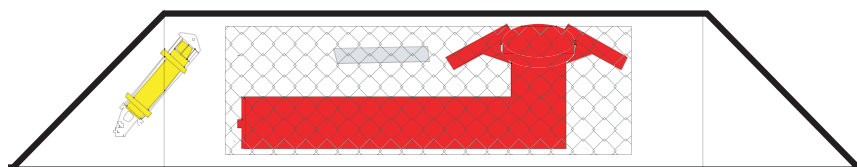
Binlength: 10 m

Depth of first bin: 284 m (corr.)

No. of bins: 24

Data:

All data ok.



NWNA0906 ADCP 1279

Error statistics for deployment: NWNA0906 updated 2010/11/04

 Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EJ in Sep 2010
 Velocity edited up to and including bin 24 by EJ in Jun 2010
 Intensity edited up to and including bin 24 by EJ in Sep 2010

Total number of ensembles: 24703
 Interval between ensembles: 20 min
 Original number of bins: 30
 Number of acceptable velocity bins: 24
 Number of acceptable intensity bins: 24

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	7	1877	8	1340	195	35	5	3	1	0	0	0	0
2	2	1879	8	1377	180	35	8	1	0	0	0	0	0
3	4	1628	7	1202	164	21	6	1	1	0	0	0	0
4	3	1410	6	1042	136	23	4	2	0	0	0	0	0
5	5	1185	5	934	98	14	2	1	0	0	0	0	0
6	4	1073	4	846	93	7	2	1	1	0	0	0	0
7	3	903	4	691	74	13	5	1	0	0	0	0	0
8	3	932	4	725	67	14	5	1	1	0	0	0	0
9	3	815	3	644	67	8	2	1	0	0	0	0	0
10	3	750	3	585	64	7	1	1	1	0	0	0	0
11	2	804	3	570	66	11	4	5	2	1	0	0	0
12	5	859	3	584	62	22	9	4	2	1	0	0	0
13	5	829	3	509	72	17	9	3	4	4	0	0	0
14	4	887	4	537	64	17	13	3	6	3	1	0	0
15	7	1094	4	554	99	32	13	13	12	1	1	0	0
16	0	1314	5	535	105	45	15	9	27	9	0	0	0
17	4	1696	7	577	120	50	24	15	31	12	6	0	0
18	4	2261	9	609	142	47	42	24	34	27	9	3	0
19	5	3030	12	709	164	62	32	22	69	34	12	6	0
20	4	4031	16	850	204	82	40	26	76	44	21	13	1
21	3	5321	22	1049	245	98	55	34	79	48	31	22	4
22	2	6886	28	1222	310	157	56	40	80	51	31	36	9
23	3	8656	35	1387	384	164	72	66	105	49	34	52	16
24	4	10652	43	1419	454	226	92	67	101	71	39	50	27

NWNA0906 ADCP 1279

Deployment: NWNA0906 updated 2010/11/04
 Instrument no.: 1279
 Instrument freq.: 150
 Latitude: 62 41.983 N
 Longitude: 06 05.115 W
 Bottom depth: 301
 Instrument depth: 300
 Center depth of first bin: 284
 Bin length: 10
 Number of bins: 24
 Number of first ensemble: 188
 Time of first ensemble: 2009 06 05 03 20
 Number of last ensemble: 24890
 Time of last ensemble: 2010 05 14 05 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -7.0

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	284	17	200	125	102	924
2	274	27	213	130	105	924
3	264	37	223	131	108	934
4	254	47	232	135	110	943
5	244	57	236	139	112	952
6	234	67	239	144	113	957
7	224	77	240	149	113	963
8	214	87	240	152	113	962
9	204	97	241	158	113	967
10	194	107	242	162	113	970
11	184	117	243	166	113	967
12	174	127	243	168	112	965
13	164	137	244	170	112	966
14	154	147	246	173	112	964
15	144	157	248	175	112	956
16	134	167	248	176	112	947
17	124	177	250	179	112	931
18	114	187	253	181	112	908
19	104	197	257	185	112	877
20	94	207	262	189	113	837
21	84	217	269	194	113	785
22	74	227	278	199	113	721
23	64	237	289	205	113	650
24	54	247	304	212	113	569

NWNA0906 ADCP 1279

Frequency of high speeds.

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

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Bin Depth		Speed (cm/s)																	
no.	m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1	284	733	407	171	57	15	3	1	0	0	0	0	0	0	0	0	0	0	0
2	274	750	440	208	79	24	6	2	1	0	0	0	0	0	0	0	0	0	0
3	264	774	473	235	96	32	9	2	1	0	0	0	0	0	0	0	0	0	0
4	254	797	504	255	110	39	12	3	1	0	0	0	0	0	0	0	0	0	0
5	244	809	518	268	121	42	14	3	1	0	0	0	0	0	0	0	0	0	0
6	234	812	527	277	127	47	15	4	1	0	0	0	0	0	0	0	0	0	0
7	224	817	530	283	131	49	16	5	1	0	0	0	0	0	0	0	0	0	0
8	214	814	527	282	132	50	16	4	1	0	0	0	0	0	0	0	0	0	0
9	204	826	528	289	137	53	17	5	1	0	0	0	0	0	0	0	0	0	0
10	194	825	530	292	140	55	18	5	1	0	0	0	0	0	0	0	0	0	0
11	184	819	530	293	142	58	19	6	1	0	0	0	0	0	0	0	0	0	0
12	174	818	531	291	142	57	19	6	1	0	0	0	0	0	0	0	0	0	0
13	164	822	533	296	144	58	20	6	1	0	0	0	0	0	0	0	0	0	0
14	154	822	540	301	145	61	21	6	1	0	0	0	0	0	0	0	0	0	0
15	144	817	538	303	147	62	21	6	1	0	0	0	0	0	0	0	0	0	0
16	134	806	536	301	148	61	21	6	1	0	0	0	0	0	0	0	0	0	0
17	124	795	532	303	149	62	22	6	1	0	0	0	0	0	0	0	0	0	0
18	114	779	526	300	148	62	23	7	2	0	0	0	0	0	0	0	0	0	0
19	104	756	516	300	151	63	23	7	2	1	0	0	0	0	0	0	0	0	0
20	94	726	505	298	150	65	24	8	2	1	0	0	0	0	0	0	0	0	0
21	84	689	484	292	150	66	26	9	3	1	1	0	0	0	0	0	0	0	0
22	74	639	460	282	149	67	28	10	5	2	1	1	0	0	0	0	0	0	0
23	64	583	429	269	146	71	31	13	5	3	2	1	1	1	0	0	0	0	0
24	54	516	391	253	143	73	34	15	8	4	3	2	1	1	1	1	0	0	0

NWNA0906 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA0906.

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	284	125	291	95	167	141	70	148	128	A
02	274	139	290	111	168	157	83	147	129	A
03	264	150	289	123	169	170	94	146	130	A
04	254	160	289	131	171	179	104	147	130	A
05	244	167	290	136	174	185	110	148	131	A
06	234	170	292	137	177	187	113	149	132	A
07	224	172	293	136	179	187	114	150	133	A
08	214	172	295	134	182	186	114	151	134	A
09	204	174	297	131	184	186	113	153	134	A
10	194	174	299	128	187	185	112	155	134	A
11	184	176	300	125	189	185	110	157	135	A
12	174	175	303	123	192	184	109	158	136	A
13	164	174	305	120	194	182	107	158	138	A
14	154	175	307	118	196	182	106	159	139	A
15	144	173	308	116	198	180	104	160	140	A
16	134	171	310	112	201	177	102	161	141	A
17	124	171	312	109	203	176	100	162	142	A
18	114	169	314	105	206	174	97	164	143	A
19	104	169	316	102	209	173	95	165	145	A
20	94	166	318	99	212	170	93	166	146	A
21	84	167	320	97	215	170	92	168	147	A
22	74	165	322	93	219	167	90	170	148	A
23	64	164	324	90	223	165	88	172	148	A
24	54	162	326	95	227	163	93	172	150	A

Harmonic constants for constituent S2 for deployment NWNA0906.

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	284	45	333	33	213	49	26	151	170	A
02	274	48	330	39	219	52	34	151	170	A
03	264	50	328	44	220	54	38	147	173	A
04	254	54	329	48	221	59	42	146	174	A
05	244	57	332	51	221	64	43	144	178	A
06	234	62	335	52	221	68	43	147	177	A
07	224	64	337	51	222	70	42	149	177	A
08	214	65	339	50	224	71	42	151	177	A
09	204	67	340	49	226	71	42	154	176	A
10	194	68	341	48	226	72	41	156	175	A
11	184	67	342	47	227	72	40	155	177	A
12	174	68	343	46	227	72	38	156	176	A
13	164	68	344	45	227	72	37	157	177	A
14	154	68	345	44	228	71	37	158	176	A
15	144	67	346	42	230	71	36	159	177	A
16	134	66	347	40	232	69	35	160	178	A
17	124	65	350	38	234	68	33	161	179	A
18	114	64	353	37	237	67	32	162	182	A
19	104	63	355	34	241	65	30	164	183	A
20	94	61	359	33	244	63	29	164	186	A
21	84	59	0	30	248	60	27	166	186	A
22	74	59	1	28	253	60	27	170	185	A
23	64	62	6	29	258	63	27	170	190	A
24	54	58	7	31	261	59	30	169	193	A

NWNA0906 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA0906.

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	284	27	258	21	130	31	14	146	96	A
02	274	30	259	24	131	35	16	144	98	A
03	264	31	258	27	133	36	19	142	100	A
04	254	33	260	27	136	38	19	145	100	A
05	244	33	263	27	141	37	20	145	104	A
06	234	33	266	27	144	37	20	145	107	A
07	224	32	270	25	146	36	19	147	108	A
08	214	32	272	25	150	36	19	148	110	A
09	204	32	273	23	151	35	18	151	109	A
10	194	32	276	23	154	35	18	152	111	A
11	184	33	277	22	160	36	18	156	110	A
12	174	34	278	22	162	36	19	158	110	A
13	164	34	279	23	166	36	20	158	112	A
14	154	34	283	23	169	36	20	157	116	A
15	144	34	285	23	171	36	20	158	117	A
16	134	34	286	22	173	36	19	160	117	A
17	124	34	287	22	174	36	19	160	118	A
18	114	35	291	22	176	37	19	159	122	A
19	104	37	293	22	182	38	20	163	122	A
20	94	37	293	21	186	38	20	167	119	A
21	84	36	293	23	189	37	22	167	121	A
22	74	37	297	21	195	37	21	170	123	A
23	64	35	296	20	198	35	20	173	121	A
24	54	37	299	21	205	37	21	177	121	A

Harmonic constants for constituent O1 for deployment NWNA0906.

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	284	21	27	9	283	22	9	173	210	A
02	274	22	26	9	285	22	9	175	209	A
03	264	24	28	11	281	24	10	171	212	A
04	254	24	25	11	280	25	10	172	208	A
05	244	24	28	10	279	24	9	171	212	A
06	234	26	32	10	279	26	9	170	215	A
07	224	27	31	11	280	27	10	171	214	A
08	214	27	31	12	276	27	11	167	216	A
09	204	27	34	13	278	27	11	166	220	A
10	194	27	33	13	277	28	11	165	219	A
11	184	27	35	14	277	28	12	162	223	A
12	174	28	36	14	274	29	11	163	223	A
13	164	29	36	15	274	30	12	162	223	A
14	154	30	36	16	272	31	12	160	224	A
15	144	30	34	16	271	32	13	160	222	A
16	134	30	35	16	269	32	12	160	223	A
17	124	31	35	17	268	33	13	158	224	A
18	114	33	36	17	269	35	13	160	223	A
19	104	34	37	17	269	36	13	161	224	A
20	94	35	38	19	272	37	14	159	227	A
21	84	35	43	19	276	37	14	159	232	A
22	74	39	39	20	269	41	14	159	227	A
23	64	41	39	21	264	44	14	157	227	A
24	54	38	40	19	266	41	13	159	227	A

NWNA0906 ADCP 1279

Harmonic constants for constituent K1 for deployment NWNA0906.

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	284	31	271	17	187	32	17	5	268	A
02	274	31	279	22	184	31	22	173	104	A
03	264	33	285	24	177	35	22	159	118	A
04	254	35	284	23	171	37	20	159	116	A
05	244	35	282	20	168	37	18	163	111	A
06	234	34	280	20	166	35	17	163	109	A
07	224	33	280	20	164	35	17	160	110	A
08	214	33	279	21	166	34	18	160	110	A
09	204	34	278	21	167	35	19	163	107	A
10	194	35	277	21	163	36	18	161	107	A
11	184	36	274	21	161	37	19	162	103	A
12	174	36	272	23	159	38	20	161	102	A
13	164	36	269	22	158	38	20	163	98	A
14	154	37	267	22	156	38	20	163	96	A
15	144	37	264	23	153	39	21	163	93	A
16	134	38	263	23	154	39	21	164	92	A
17	124	38	262	23	154	39	21	165	90	A
18	114	38	262	23	151	39	21	163	91	A
19	104	37	261	22	151	38	20	164	90	A
20	94	39	263	22	150	40	20	164	90	A
21	84	40	262	22	151	41	20	165	89	A
22	74	39	259	21	156	40	20	171	83	A
23	64	38	261	22	159	38	21	170	87	A
24	54	37	259	20	163	37	20	176	81	A

NWNB0906

Latitude: 62°55.100'N

Longitude: 006°05.100'W

Echo sounding depth: 985 m

Bottom depth corr.: 959 m

Time of deployment: 5/6 - 2009 0616 UTC

Time of recovery: 14/5 - 2010 0741 UTC

ADCP:

Instrument no.: RDI ADCP 1577

Instrument frequency: 75 kHz

Height above bottom: 254 m (corr.)

Depth: 705 m (corr.)

Time of first data: 5/6 - 2009 0640 UTC

Time of last data: 14/5 - 2010 0720 UTC

Sample interval: 20 min

No. of ensembles: 24699

Pings per ens.: 1

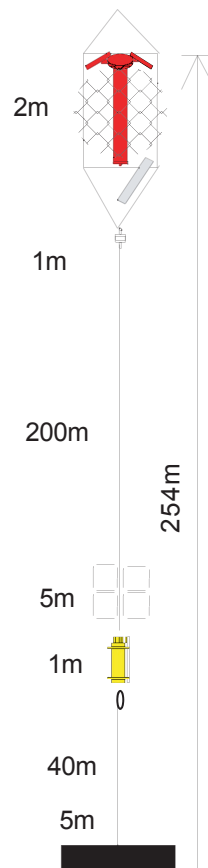
Binlength: 25 m

Depth of first bin: 670 m (corr.)

No. of bins: 23

Data:

All data ok.



NWNB0906 ADCP 1577

Error statistics for deployment: NWNB0906 updated 2010/11/04

Surface distance not edited

Heading, pitch and roll not edited

Temperature edited by EJ in Sep 2010

Velocity edited up to and including bin 23 by EJ in Jul 2010

Intensity edited up to and including bin 23 by EJ in Sep 2010

Total number of ensembles: 24699

Interval between ensembles: 20 min

Original number of bins: 32

Number of acceptable velocity bins: 23

Number of acceptable intensity bins: 23

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	7	22	0	20	1	0	0	0	0	0	0	0	0	0
2	2	21	0	19	1	0	0	0	0	0	0	0	0	0
3	0	27	0	25	1	0	0	0	0	0	0	0	0	0
4	0	25	0	22	0	1	0	0	0	0	0	0	0	0
5	0	21	0	21	0	0	0	0	0	0	0	0	0	0
6	0	18	0	18	0	0	0	0	0	0	0	0	0	0
7	1	13	0	13	0	0	0	0	0	0	0	0	0	0
8	0	17	0	15	1	0	0	0	0	0	0	0	0	0
9	0	21	0	16	1	1	0	0	0	0	0	0	0	0
10	0	22	0	22	0	0	0	0	0	0	0	0	0	0
11	0	38	0	32	3	0	0	0	0	0	0	0	0	0
12	2	47	0	43	2	0	0	0	0	0	0	0	0	0
13	2	75	0	55	5	0	1	0	1	0	0	0	0	0
14	1	83	0	57	8	2	1	0	0	0	0	0	0	0
15	2	225	1	91	12	3	4	2	5	3	0	0	0	0
16	1	513	2	134	32	5	6	5	9	6	4	0	0	0
17	3	1058	4	166	43	26	19	10	22	14	4	4	0	0
18	1	1921	8	228	61	27	31	18	37	23	7	12	0	0
19	2	2861	12	289	85	54	25	26	58	32	7	22	0	0
20	1	4737	19	394	156	72	36	44	74	60	20	32	2	0
21	2	7039	28	521	192	102	72	52	118	80	42	36	12	0
22	2	9392	38	554	195	118	83	74	171	121	67	41	18	0
23	2	11285	46	511	212	113	87	70	142	143	57	70	31	0

NWNB0906 ADCP 1577

Deployment: NWNB0906 updated 2010/11/04
 Instrument no.: 1577
 Instrument freq.: 75
 Latitude: 62 55.100 N
 Longitude: 06 05.100 W
 Bottom depth: 959
 Instrument depth: 705
 Center depth of first bin: 670
 Bin length: 25
 Number of bins: 23
 Number of first ensemble: 198
 Time of first ensemble: 2009 06 05 06 40
 Number of last ensemble: 24896
 Time of last ensemble: 2010 05 14 07 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -7.0

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	670	289	130	11	94	999
2	645	314	129	6	96	999
3	620	339	128	2	91	999
4	595	364	128	1	311	999
5	570	389	130	3	287	999
6	545	414	131	3	261	999
7	520	439	132	4	215	999
8	495	464	133	6	163	999
9	470	489	135	12	136	999
10	445	514	140	22	124	999
11	420	539	148	35	120	998
12	395	564	159	51	118	998
13	370	589	171	71	115	997
14	345	614	185	93	114	997
15	320	639	202	115	114	991
16	295	664	221	139	114	979
17	270	689	240	160	114	957
18	245	714	259	180	114	922
19	220	739	277	198	114	884
20	195	764	292	211	115	808
21	170	789	306	220	116	715
22	145	814	310	221	116	620
23	120	839	305	214	115	543

NWNB0906 ADCP 1577

Frequency of high speeds.

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

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Bin Depth	Speed (cm/s)																		
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
1 670	572	180	39	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 645	570	178	36	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 620	574	176	34	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 595	580	172	31	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 570	586	176	32	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 545	597	173	32	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 520	604	183	33	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 495	608	191	33	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 470	620	194	36	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 445	645	213	43	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 420	677	244	56	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 395	710	291	75	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 370	741	339	106	26	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0
14 345	769	385	142	40	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
15 320	802	445	184	61	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0
16 295	819	503	242	85	25	5	0	0	0	0	0	0	0	0	0	0	0	0	0
17 270	826	546	285	115	38	8	1	0	0	0	0	0	0	0	0	0	0	0	0
18 245	812	569	334	151	52	12	1	0	0	0	0	0	0	0	0	0	0	0	0
19 220	788	579	366	187	72	18	3	0	0	0	0	0	0	0	0	0	0	0	0
20 195	726	554	366	198	85	25	5	0	0	0	0	0	0	0	0	0	0	0	0
21 170	648	503	349	197	93	32	8	1	0	0	0	0	0	0	0	0	0	0	0
22 145	562	439	307	174	86	34	10	2	0	0	0	0	0	0	0	0	0	0	0
23 120	485	376	258	149	75	31	10	3	0	0	0	0	0	0	0	0	0	0	0

NWNB0906 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB0906.

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	670	69	266	41	122	77	21	152	95	A
02	645	70	268	39	125	77	21	154	96	A
03	620	73	270	38	130	79	22	156	97	A
04	595	77	271	39	136	82	26	158	99	A
05	570	81	273	40	143	86	29	160	100	A
06	545	85	274	40	149	89	31	162	101	A
07	520	90	275	42	154	93	35	164	101	A
08	495	94	277	43	161	97	38	166	103	A
09	470	100	280	45	170	102	42	170	105	A
10	445	106	284	48	181	106	46	173	107	A
11	420	112	290	52	194	113	52	177	111	A
12	395	120	296	57	208	120	56	2	295	A
13	370	123	301	61	218	124	60	4	299	A
14	345	125	307	64	228	126	63	7	304	A
15	320	125	315	69	241	127	65	12	309	A
16	295	126	320	73	250	129	67	15	312	A
17	270	127	323	77	255	132	69	18	314	A
18	245	127	325	81	258	133	72	20	314	A
19	220	128	328	85	261	134	75	21	316	A
20	195	128	330	87	262	134	77	22	317	A
21	170	132	331	91	262	138	82	22	318	A
22	145	131	300	92	234	138	79	24	286	A
23	120	131	301	89	234	138	77	22	288	A

Harmonic constants for constituent S2 for deployment NWNB0906.

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	670	30	305	15	186	31	13	163	133	A
02	645	30	306	16	187	31	13	163	134	A
03	620	30	306	15	185	31	13	163	133	A
04	595	31	308	15	186	32	12	164	134	A
05	570	32	308	15	189	33	13	165	133	A
06	545	35	309	17	195	36	15	166	135	A
07	520	39	313	20	207	39	19	170	138	A
08	495	41	319	22	220	42	21	174	142	A
09	470	44	327	24	236	44	24	179	147	A
10	445	45	334	24	249	45	24	4	332	A
11	420	43	337	23	257	43	22	7	334	A
12	395	37	342	18	266	37	17	8	338	A
13	370	36	349	16	280	36	14	11	344	A
14	345	36	354	18	288	37	16	14	348	A
15	320	37	357	20	291	38	18	16	349	A
16	295	35	356	20	296	37	16	19	347	A
17	270	33	357	20	303	36	15	24	346	A
18	245	34	359	19	307	36	14	23	350	A
19	220	33	1	18	307	35	13	20	353	A
20	195	35	2	17	312	37	12	19	356	A
21	170	37	5	14	307	38	12	13	1	A
22	145	31	341	21	283	33	16	26	328	A
23	120	31	340	22	280	34	18	28	324	A

NWNB0906 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB0906.

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	670	9	250	6	67	11	0	148	69	C
02	645	10	245	6	67	12	0	148	66	A
03	620	11	238	7	67	13	1	147	60	A
04	595	11	238	8	71	14	2	146	62	A
05	570	12	242	7	74	14	1	148	65	A
06	545	13	251	7	76	14	1	151	72	A
07	520	14	256	5	97	15	2	161	78	A
08	495	17	264	3	151	17	3	175	85	A
09	470	17	272	4	170	17	4	177	93	A
10	445	19	275	6	177	19	6	177	96	A
11	420	22	274	8	189	22	8	2	274	A
12	395	24	272	9	187	24	9	2	271	A
13	370	25	274	11	194	25	11	6	272	A
14	345	25	281	13	204	26	13	9	277	A
15	320	30	280	16	196	30	16	5	277	A
16	295	31	279	18	197	32	18	7	275	A
17	270	30	284	18	203	30	17	8	279	A
18	245	33	285	18	202	33	18	5	282	A
19	220	33	284	16	196	33	16	1	283	A
20	195	31	284	16	206	31	15	8	281	A
21	170	29	285	15	216	30	14	14	278	A
22	145	26	264	16	205	28	13	23	253	A
23	120	25	283	20	216	27	17	29	264	A

Harmonic constants for constituent O1 for deployment NWNB0906.

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	670	4	50	4	220	5	0	137	225	C
02	645	4	46	3	222	5	0	143	225	C
03	620	4	39	3	231	5	1	142	224	A
04	595	4	38	3	224	5	0	141	220	A
05	570	4	26	4	229	6	1	139	216	A
06	545	4	24	4	239	6	2	137	221	A
07	520	6	24	4	243	7	2	149	215	A
08	495	7	24	4	246	8	3	153	213	A
09	470	8	34	5	254	9	3	150	225	A
10	445	8	39	5	260	9	3	154	227	A
11	420	8	36	5	259	9	3	156	224	A
12	395	9	37	5	267	9	3	158	225	A
13	370	10	31	6	263	11	5	152	224	A
14	345	11	28	7	268	12	6	157	219	A
15	320	11	33	9	274	12	7	150	231	A
16	295	13	37	8	270	14	6	152	230	A
17	270	13	36	8	283	13	7	162	225	A
18	245	13	36	7	285	14	7	165	224	A
19	220	13	36	7	292	13	7	168	223	A
20	195	10	25	8	286	10	8	164	217	A
21	170	12	24	5	284	12	5	175	206	A
22	145	16	7	5	291	16	4	4	6	A
23	120	16	18	8	278	16	8	173	201	A

NWNB0906 ADCP 1577

Harmonic constants for constituent K1 for deployment NWNB0906.

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	670	4	286	4	155	6	3	132	133	A
02	645	4	276	4	149	5	3	130	126	A
03	620	4	275	5	144	6	3	126	126	A
04	595	4	275	5	144	6	3	130	124	A
05	570	5	273	5	143	7	3	130	122	A
06	545	5	273	5	147	6	3	131	123	A
07	520	6	279	6	152	7	4	138	123	A
08	495	7	282	6	152	9	4	146	119	A
09	470	7	277	5	151	8	4	148	113	A
10	445	7	272	5	145	8	4	150	106	A
11	420	8	265	7	137	10	4	147	102	A
12	395	9	272	7	132	11	4	145	106	A
13	370	10	272	7	127	12	3	149	102	A
14	345	11	274	7	130	12	4	150	104	A
15	320	10	275	8	134	13	4	142	110	A
16	295	11	276	9	140	13	5	141	114	A
17	270	9	273	9	153	11	7	136	122	A
18	245	8	254	8	145	9	7	132	112	A
19	220	7	230	10	139	10	7	92	138	A
20	195	8	211	9	151	11	6	53	173	A
21	170	7	202	12	130	12	7	74	138	A
22	145	5	126	10	128	11	0	65	128	C
23	120	6	113	8	109	9	0	53	110	A

NWNE0906

Latitude: 62°47.628'N

Longitude: 006°04.914'W

Echo sounding depth: 456 m

Bottom depth corr.: 455 m

Time of deployment: 5/6 - 2009 0441 UTC

Time of recovery: 14/5 - 2010 0630 UTC

ADCP:

Instrument no.: RDI ADCP 1244

Instrument frequency: 150 kHz

Height above bottom: 1 m

Depth: 454 m (corr.)

Time of first data: 5/6 - 2009 0500 UTC

Time of last data: 14/5 - 2010 0620 UTC

Sample interval: 20 min

No. of ensembles: 24701

Pings per ens.: 1

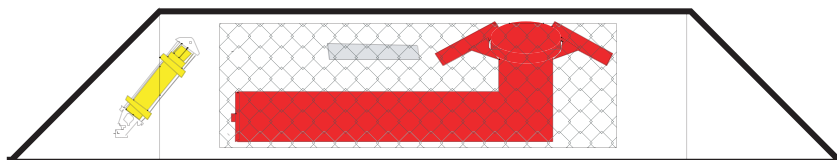
Binlength: 25 m

Depth of first bin: 423 m (corr.)

No. of bins: 15

Data:

All data ok.



NWNE0906 ADCP 1244

Error statistics for deployment: NWNE0906 updated 2010/11/04

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EJ in Sep 2010
 Velocity edited up to and including bin 15 by EJ in Jul 2010
 Intensity edited up to and including bin 15 by EJ in Sep 2010

Total number of ensembles: 24701
 Interval between ensembles: 20 min
 Original number of bins: 20
 Number of acceptable velocity bins: 15
 Number of acceptable intensity bins: 15

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

Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	6	866	4	752	51	4	0	0	0	0	0	0	0
2	1	928	4	788	59	6	1	0	0	0	0	0	0
3	6	1068	4	913	67	4	1	1	0	0	0	0	0
4	3	1100	4	918	81	4	2	0	0	0	0	0	0
5	3	1051	4	911	62	4	1	0	0	0	0	0	0
6	4	1051	4	917	59	4	1	0	0	0	0	0	0
7	1	1028	4	879	68	3	1	0	0	0	0	0	0
8	5	1015	4	864	69	3	1	0	0	0	0	0	0
9	3	1056	4	857	66	11	2	0	1	1	0	0	0
10	3	1509	6	868	71	17	11	11	18	11	3	0	0
11	5	2392	10	892	131	24	17	21	37	32	10	0	0
12	3	3481	14	925	127	52	29	14	52	37	37	3	0
13	6	5138	21	1049	186	79	42	28	53	54	46	21	0
14	3	7697	31	1198	332	115	68	39	104	74	40	52	2
15	1	11370	46	1243	391	171	66	48	133	83	52	97	13

NWNE0906 ADCP 1244

Deployment: NWNE0906 updated 2010/11/04
 Instrument no.: 1244
 Instrument freq.: 150
 Latitude: 62 47.628 N
 Longitude: 06 04.914 W
 Bottom depth: 455
 Instrument depth: 454
 Center depth of first bin: 423
 Bin length: 25
 Number of bins: 15
 Number of first ensemble: 193
 Time of first ensemble: 2009 06 05 05 00
 Number of last ensemble: 24893
 Time of last ensemble: 2010 05 14 06 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -7.0

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	423	32	217	114	90	965
2	398	57	229	139	96	962
3	373	82	240	163	99	957
4	348	107	249	186	99	955
5	323	132	259	204	100	957
6	298	157	268	218	100	957
7	273	182	279	232	101	958
8	248	207	288	245	101	959
9	223	232	297	257	101	957
10	198	257	303	264	101	939
11	173	282	307	268	101	903
12	148	307	310	271	101	859
13	123	332	316	276	102	792
14	98	357	326	283	102	688
15	73	382	342	291	102	540

NWNE0906 ADCP 1244

Frequency of high speeds.

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

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Bin Depth		Speed (cm/s)																	
no.	m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1	423	810	480	221	84	22	4	0	0	0	0	0	0	0	0	0	0	0	0
2	398	815	509	250	106	35	9	1	0	0	0	0	0	0	0	0	0	0	0
3	373	821	522	277	127	50	14	2	0	0	0	0	0	0	0	0	0	0	0
4	348	815	542	307	153	64	19	5	0	0	0	0	0	0	0	0	0	0	0
5	323	826	564	336	175	72	26	6	1	0	0	0	0	0	0	0	0	0	0
6	298	835	584	361	192	84	29	8	1	0	0	0	0	0	0	0	0	0	0
7	273	848	612	385	211	95	35	10	3	0	0	0	0	0	0	0	0	0	0
8	248	854	632	409	229	106	42	13	4	1	0	0	0	0	0	0	0	0	0
9	223	855	644	427	247	117	50	18	5	1	0	0	0	0	0	0	0	0	0
10	198	837	636	435	256	126	55	22	7	2	1	0	0	0	0	0	0	0	0
11	173	809	618	421	252	129	59	24	8	3	1	0	0	0	0	0	0	0	0
12	148	771	592	405	243	127	60	26	10	3	1	1	0	0	0	0	0	0	0
13	123	718	553	383	234	124	58	28	10	4	2	1	0	0	0	0	0	0	0
14	98	629	492	346	214	116	58	27	11	5	2	1	0	0	0	0	0	0	0
15	73	501	403	290	185	102	52	26	10	5	2	1	1	0	0	0	0	0	0

NWNE0906 ADCP 1244

Harmonic constants for constituent M2 for deployment NWNE0906.

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	423	139	257	115	144	152	96	148	99	A
02	398	150	266	114	155	160	99	153	103	A
03	373	157	278	106	171	162	99	162	109	A
04	348	156	290	98	187	159	94	168	117	A
05	323	153	300	93	203	153	91	173	125	A
06	298	147	308	88	216	147	88	178	129	A
07	273	144	313	85	225	144	85	1	313	A
08	248	141	316	82	230	141	81	4	314	A
09	223	138	317	80	233	139	79	5	314	A
10	198	136	318	78	236	137	77	7	314	A
11	173	136	318	75	239	137	73	8	314	A
12	148	133	321	73	243	134	71	9	316	A
13	123	131	325	69	247	132	68	8	321	A
14	98	126	329	70	258	128	65	13	322	A
15	73	125	335	69	267	128	62	16	327	A

Harmonic constants for constituent S2 for deployment NWNE0906.

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	423	55	310	41	209	57	39	164	142	A
02	398	55	318	42	218	56	40	164	150	A
03	373	53	329	39	231	54	39	168	158	A
04	348	52	339	35	241	53	35	171	165	A
05	323	49	344	31	251	49	31	176	167	A
06	298	48	347	29	258	48	29	1	347	A
07	273	46	351	26	262	46	26	1	350	A
08	248	46	353	25	266	46	25	3	351	A
09	223	46	354	24	271	46	23	5	351	A
10	198	46	353	22	275	47	22	7	350	A
11	173	46	353	22	276	46	21	8	350	A
12	148	45	354	20	275	45	19	6	352	A
13	123	41	357	19	282	41	18	9	353	A
14	98	40	360	17	288	41	16	9	356	A
15	73	46	4	16	300	47	14	10	1	A

NWNE0906 ADCP 1244

Harmonic constants for constituent N2 for deployment NWNE0906.

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	423	16	240	13	86	20	5	140	71	A
02	398	19	248	13	112	22	8	149	80	A
03	373	22	262	14	141	24	11	157	93	A
04	348	27	270	17	153	28	14	158	102	A
05	323	31	271	20	156	33	17	159	103	A
06	298	33	276	21	163	35	19	160	107	A
07	273	34	281	22	175	35	20	165	110	A
08	248	34	287	22	185	34	21	168	115	A
09	223	31	290	20	191	32	20	171	116	A
10	198	29	293	18	195	29	18	173	117	A
11	173	27	294	16	198	28	16	175	117	A
12	148	28	294	17	198	28	17	175	116	A
13	123	26	302	16	219	26	16	7	297	A
14	98	27	307	16	229	27	15	10	302	A
15	73	31	307	18	241	33	16	17	299	A

Harmonic constants for constituent O1 for deployment NWNE0906.

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	423	22	26	12	299	22	12	2	25	A
02	398	24	32	11	294	24	11	176	214	A
03	373	25	37	12	293	25	11	172	221	A
04	348	22	40	11	300	23	11	174	223	A
05	323	19	36	9	299	19	9	176	218	A
06	298	19	36	10	297	19	10	173	220	A
07	273	18	38	13	295	19	12	164	229	A
08	248	17	40	13	292	18	12	157	235	A
09	223	19	38	13	289	19	12	159	231	A
10	198	19	37	13	291	19	12	162	229	A
11	173	20	34	12	292	20	12	168	221	A
12	148	23	35	12	291	23	12	170	219	A
13	123	23	42	12	278	24	9	161	229	A
14	98	23	38	13	283	24	12	162	227	A
15	73	22	43	10	263	24	6	160	229	A

NWNE0906 ADCP 1244

Harmonic constants for constituent K1 for deployment NWNE0906.

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	423	21	259	14	175	21	14	7	255	A
02	398	21	268	15	165	21	14	163	99	A
03	373	22	271	16	162	23	14	156	107	A
04	348	20	272	15	153	22	12	151	108	A
05	323	19	275	13	155	21	11	153	110	A
06	298	20	278	14	153	22	11	152	112	A
07	273	20	278	15	155	23	11	149	115	A
08	248	19	278	14	152	21	10	148	115	A
09	223	17	277	13	157	19	10	151	114	A
10	198	17	271	13	164	18	12	156	108	A
11	173	18	270	13	165	19	12	161	103	A
12	148	18	271	13	167	18	12	161	104	A
13	123	17	275	13	178	17	13	168	104	A
14	98	16	272	11	183	16	11	2	271	A
15	73	9	300	13	191	14	8	111	177	A

NWNGo906

Latitude: 63°06.300'N
Longitude: 006°05.000'W
Echo sounding depth: 1853 m
Bottom depth corr.: 1810 m
Time of deployment: 5/6 - 2009 0802 UTC
Time of recovery: 14/5 - 2010 0945 UTC

ADCP:

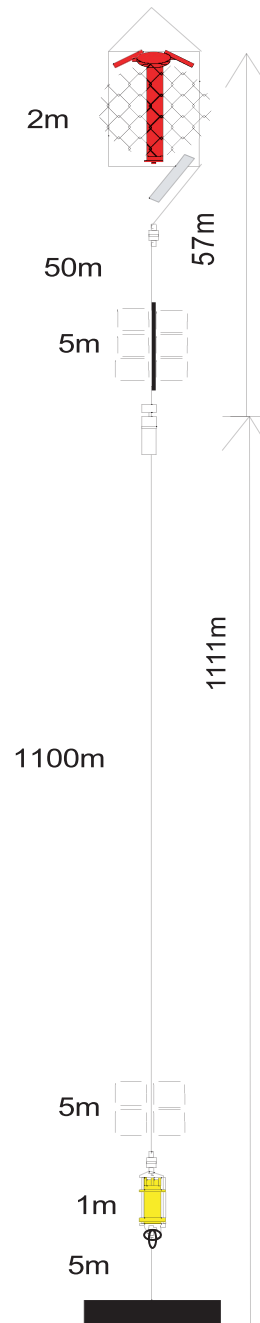
Instrument no.: RDI ADCP 1292
Instrument frequency: 75 kHz
Height above bottom: 1168 m
Depth: 642 m (corr.)
Time of first data: 5/6 - 2009 0840 UTC
Time of last data: 14/5 - 2010 0900 UTC
Sample interval: 20 min
No. of ensembles: 24698
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 607 m (corr.)
No. of bins: 23

Aanderaa:

Instrument no.: RCM9 721
Height above bottom: 1111 m
Depth: 699 m (corr.)
Time of first data: 5/6 - 2009 0829 UTC
Time of last data: 14/5 - 2010 0829 UTC
Sample interval: 60 min
No. of ensembles: 8233

Data:

All data ok.



NWNG0906 ADCP 1292

Error statistics for deployment: NWNG0906 updated 2010/11/04

Surface distance not edited

Heading, pitch and roll not edited

Temperature edited by EJ in Sep 2010

Velocity edited up to and including bin 23 by EJ in Aug 2010

Intensity edited up to and including bin 23 by EJ in Sep 2010

Total number of ensembles: 24698

Interval between ensembles: 20 min

Original number of bins: 32

Number of acceptable velocity bins: 23

Number of acceptable intensity bins: 23

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

Number of temperature ens. flagged: 2

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

Bin	Int. ens. flgd	Velocity ens. flgd	Velocity % flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	2	20	0	20	0	0	0	0	0	0	0	0	0	0
2	2	28	0	28	0	0	0	0	0	0	0	0	0	0
3	2	41	0	41	0	0	0	0	0	0	0	0	0	0
4	0	37	0	37	0	0	0	0	0	0	0	0	0	0
5	2	35	0	29	1	0	1	0	0	0	0	0	0	0
6	0	29	0	26	0	1	0	0	0	0	0	0	0	0
7	1	31	0	29	1	0	0	0	0	0	0	0	0	0
8	1	26	0	26	0	0	0	0	0	0	0	0	0	0
9	2	30	0	28	1	0	0	0	0	0	0	0	0	0
10	1	34	0	30	2	0	0	0	0	0	0	0	0	0
11	2	50	0	46	2	0	0	0	0	0	0	0	0	0
12	2	79	0	77	1	0	0	0	0	0	0	0	0	0
13	3	112	0	98	7	0	0	0	0	0	0	0	0	0
14	5	138	1	115	8	1	1	0	0	0	0	0	0	0
15	3	367	1	168	19	7	2	3	7	5	0	0	0	0
16	2	659	3	248	36	12	7	5	9	5	4	0	0	0
17	4	1117	5	267	75	23	12	15	21	11	4	3	0	0
18	2	2013	8	345	80	29	26	17	36	34	8	7	0	0
19	4	3037	12	368	79	45	24	9	26	44	33	14	0	0
20	2	4280	17	480	131	58	25	22	52	53	42	20	2	2
21	2	5827	24	638	184	67	45	19	78	65	52	36	3	3
22	2	7853	32	1025	282	134	54	48	101	83	58	48	3	3
23	4	11549	47	1408	383	184	87	40	129	96	98	71	9	9

NWNG0906 ADCP 1292

Deployment: NWNG0906 updated 2010/11/04
 Instrument no.: 1292
 Instrument freq.: 75
 Latitude: 63 06.300 N
 Longitude: 06 05.000 W
 Bottom depth: 1810
 Instrument depth: 642
 Center depth of first bin: 607
 Bin length: 25
 Number of bins: 23
 Number of first ensemble: 204
 Time of first ensemble: 2009 06 05 08 40
 Number of last ensemble: 24901
 Time of last ensemble: 2010 05 14 09 00
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -7.0

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	607	1203	89	21	143	999
2	582	1228	90	22	143	999
3	557	1253	91	23	141	998
4	532	1278	93	24	140	999
5	507	1303	95	26	139	999
6	482	1328	98	29	139	999
7	457	1353	103	32	139	999
8	432	1378	107	37	139	999
9	407	1403	113	42	140	999
10	382	1428	121	48	140	999
11	357	1453	131	56	139	998
12	332	1478	143	64	139	997
13	307	1503	157	73	139	995
14	282	1528	172	81	139	994
15	257	1553	186	89	140	985
16	232	1578	202	100	139	973
17	207	1603	220	112	139	955
18	182	1628	239	125	139	918
19	157	1653	258	135	140	877
20	132	1678	277	143	140	827
21	107	1703	297	152	139	764
22	82	1728	320	160	140	682
23	57	1753	330	145	144	532

NWNG0906 ADCP 1292

Frequency of high speeds.

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

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Bin Depth	Speed (cm/s)																	
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 607	376	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 582	382	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 557	389	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 532	402	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 507	421	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 482	443	44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 457	468	60	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 432	496	77	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 407	525	99	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 382	562	134	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 357	602	174	30	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 332	650	224	51	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
13 307	692	278	79	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0
14 282	735	338	114	27	5	0	0	0	0	0	0	0	0	0	0	0	0	0
15 257	755	379	152	48	11	1	0	0	0	0	0	0	0	0	0	0	0	0
16 232	774	424	188	71	20	4	1	0	0	0	0	0	0	0	0	0	0	0
17 207	786	465	234	98	31	10	2	0	0	0	0	0	0	0	0	0	0	0
18 182	780	495	270	128	49	16	5	0	0	0	0	0	0	0	0	0	0	0
19 157	765	514	299	154	66	25	8	2	0	0	0	0	0	0	0	0	0	0
20 132	730	520	322	175	83	32	12	4	1	0	0	0	0	0	0	0	0	0
21 107	687	512	329	189	101	45	19	7	3	1	0	0	0	0	0	0	0	0
22 82	627	483	325	199	113	56	26	11	5	1	0	0	0	0	0	0	0	0
23 57	492	386	264	164	92	50	25	11	4	2	1	0	0	0	0	0	0	0

NWNG0906 ADCP 1292

Harmonic constants for constituent M2 for deployment NWNG0906.

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	607	71	294	32	245	75	23	18	288	A
02	582	71	295	32	249	75	22	19	289	A
03	557	70	296	32	252	74	21	19	291	A
04	532	70	298	33	255	74	21	21	291	A
05	507	69	301	34	260	74	21	23	294	A
06	482	66	304	37	269	73	19	26	297	A
07	457	64	309	39	276	72	19	29	301	A
08	432	62	313	42	281	73	19	32	304	A
09	407	61	317	45	285	73	20	35	306	A
10	382	60	322	48	290	74	20	37	310	A
11	357	60	326	53	293	77	22	40	312	A
12	332	64	331	59	294	83	28	42	314	A
13	307	70	335	68	292	91	36	44	315	A
14	282	74	340	75	293	96	41	46	316	A
15	257	75	343	80	297	100	43	48	318	A
16	232	73	348	83	300	101	44	51	320	A
17	207	74	353	88	303	105	48	53	322	A
18	182	74	356	94	306	109	48	55	323	A
19	157	74	3	102	309	115	53	60	325	A
20	132	78	8	113	311	124	59	62	325	A
21	107	87	10	121	310	132	69	62	325	A
22	82	90	9	120	307	131	72	61	325	A
23	57	89	4	108	305	123	68	56	325	A

Harmonic constants for constituent S2 for deployment NWNG0906.

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	607	19	330	8	302	21	4	21	326	A
02	582	19	330	7	307	20	3	20	327	A
03	557	18	329	7	317	19	1	20	328	A
04	532	18	326	6	317	19	1	17	325	A
05	507	18	323	5	316	19	1	15	322	A
06	482	19	327	7	304	21	3	18	325	A
07	457	21	333	9	302	22	4	21	328	A
08	432	21	334	9	300	22	5	21	329	A
09	407	21	332	8	308	23	3	20	329	A
10	382	20	336	9	320	22	2	25	333	A
11	357	16	343	10	337	19	1	33	341	A
12	332	13	349	12	353	18	1	42	351	C
13	307	10	358	14	359	17	0	53	359	C
14	282	9	18	16	8	18	1	62	10	A
15	257	10	39	21	10	22	4	66	15	A
16	232	12	48	23	9	25	7	66	16	A
17	207	12	51	24	10	26	7	66	17	A
18	182	11	57	26	9	27	8	73	14	A
19	157	7	75	28	15	28	6	82	17	A
20	132	8	85	32	11	32	7	86	12	A
21	107	13	81	41	6	41	12	85	8	A
22	82	12	58	42	2	43	10	81	4	A
23	57	10	70	35	354	35	10	86	355	A

NWNG0906 ADCP 1292

Harmonic constants for constituent N2 for deployment NWNG0906.

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	607	18	262	8	187	18	8	8	258	A
02	582	17	262	7	186	18	7	7	260	A
03	557	17	264	7	190	17	7	8	261	A
04	532	18	273	9	204	18	8	12	268	A
05	507	19	280	11	214	20	9	17	272	A
06	482	20	282	12	219	21	10	19	273	A
07	457	20	282	12	219	21	10	19	273	A
08	432	20	283	12	219	21	10	19	273	A
09	407	19	280	11	209	19	10	15	272	A
10	382	19	276	9	204	19	9	11	271	A
11	357	17	277	9	210	18	8	14	271	A
12	332	17	285	11	223	18	9	22	274	A
13	307	19	298	13	235	20	11	26	283	A
14	282	18	321	15	255	20	12	34	298	A
15	257	16	336	17	268	20	13	47	300	A
16	232	15	345	18	280	20	12	58	301	A
17	207	15	357	19	290	21	13	63	307	A
18	182	17	1	20	284	21	16	64	304	A
19	157	20	352	22	273	23	18	57	301	A
20	132	23	350	24	268	25	21	58	295	A
21	107	25	340	24	262	27	22	38	308	A
22	82	25	326	29	249	30	23	58	274	A
23	57	24	325	25	246	27	22	52	279	A

Harmonic constants for constituent O1 for deployment NWNG0906.

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	607	4	59	2	277	5	1	163	243	A
02	582	5	60	1	286	5	1	167	242	A
03	557	4	55	1	288	5	1	168	238	A
04	532	5	59	2	307	5	1	173	241	A
05	507	6	65	1	311	6	1	174	246	A
06	482	6	60	2	289	6	1	168	243	A
07	457	7	56	1	300	7	1	174	237	A
08	432	6	48	1	336	6	1	3	48	A
09	407	5	55	1	297	5	1	173	236	A
10	382	5	54	2	291	5	1	169	237	A
11	357	6	48	2	269	6	1	162	232	A
12	332	6	52	2	280	6	2	166	236	A
13	307	6	56	3	297	6	2	166	241	A
14	282	7	63	3	323	7	3	176	245	A
15	257	8	60	3	316	8	3	175	242	A
16	232	7	63	2	312	7	2	171	246	A
17	207	7	73	1	326	7	1	177	254	A
18	182	6	79	4	48	7	2	33	69	A
19	157	5	78	7	41	8	3	51	55	A
20	132	6	58	10	29	11	3	60	36	A
21	107	7	43	14	12	15	3	65	18	A
22	82	10	50	15	11	17	6	57	24	A
23	57	7	34	19	10	20	3	70	13	A

NWNG0906 ADCP 1292

Harmonic constants for constituent K1 for deployment NWNG0906.

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	607	4	291	2	183	4	2	169	116	A
02	582	4	288	2	162	4	2	154	120	A
03	557	4	285	3	142	4	1	144	118	A
04	532	4	280	3	139	5	2	148	111	A
05	507	4	290	2	140	5	1	154	116	A
06	482	5	295	2	137	5	1	159	118	A
07	457	5	294	2	148	6	1	161	118	A
08	432	6	298	3	163	6	2	160	124	A
09	407	6	306	2	178	6	2	165	130	A
10	382	5	300	2	164	5	1	162	125	A
11	357	5	290	2	140	5	1	157	114	A
12	332	6	279	4	146	7	2	153	109	A
13	307	7	288	3	151	8	2	159	114	A
14	282	7	307	2	118	7	0	160	126	C
15	257	8	307	2	139	8	0	166	127	A
16	232	8	300	2	175	8	1	173	121	A
17	207	7	299	3	137	8	1	158	121	A
18	182	8	311	7	138	10	1	141	134	A
19	157	8	322	7	140	11	0	141	141	C
20	132	11	324	4	174	11	2	161	147	A
21	107	14	322	5	232	14	5	180	143	A
22	82	14	329	11	223	15	10	158	164	A
23	57	17	319	24	217	24	17	107	205	A

NWNG0906 Aanderaa 721

Deployment: NWNG0906 analyzed from beginning to end
 Instrument no.: 721
 Instrument type: Aanderaa
 Latitude: 63 06.300 N
 Longitude: 06 05.000 W
 Bottom depth: 1853
 Instrument depth: 699
 Number of records: 8233
 Time of first record: 2009 06 05 08 29
 Time of last record : 2010 05 14 08 29
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8232	1
Column 8 : Speed	8233	0
Column 9 : Direct	8233	0

Comments

Residual current: 19 mm/sec towards: 133 degrees

TIDAL ANALYSIS

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

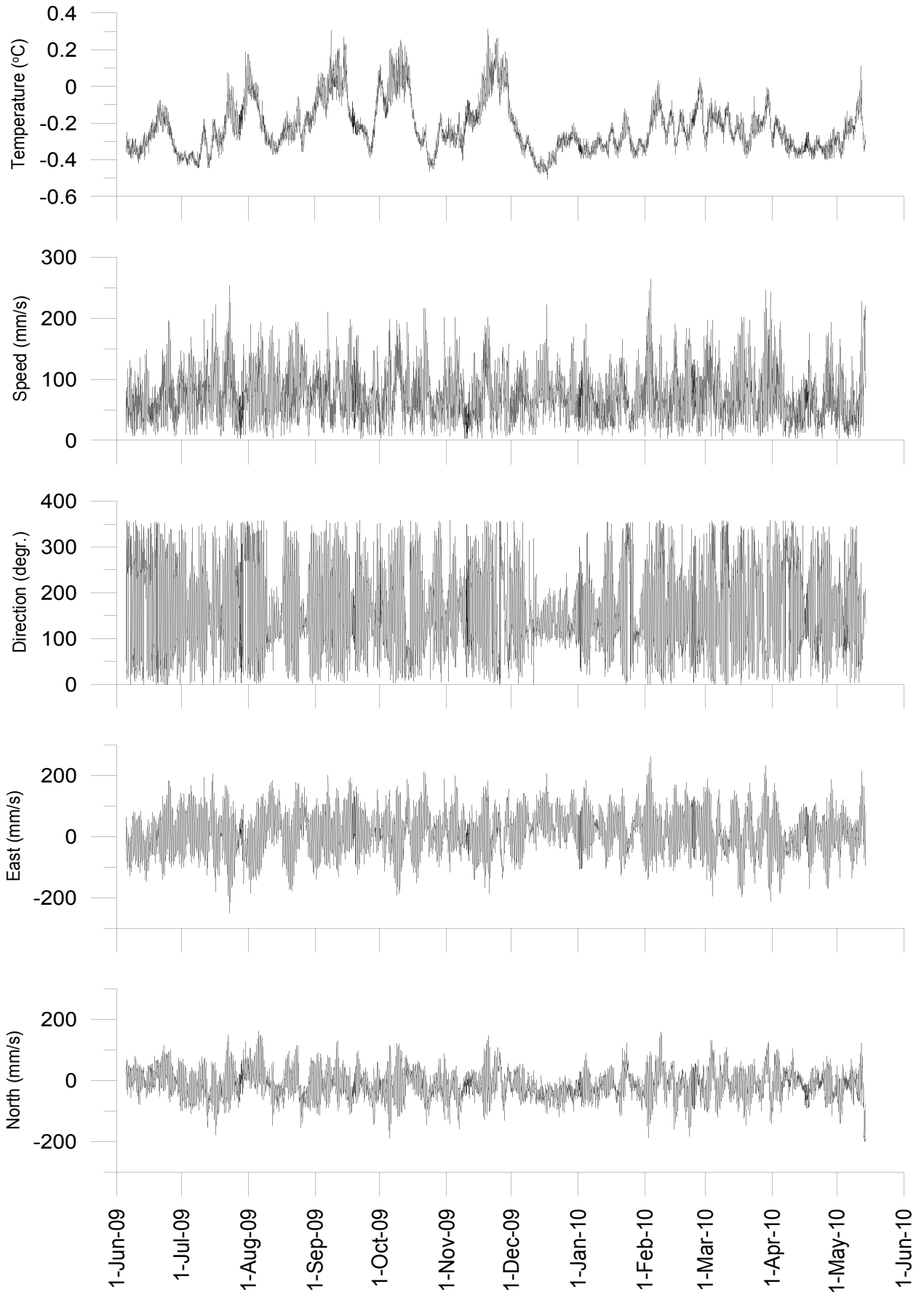
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	4	336	4	107	5	2	138	134	C
MSF	.00282193	4	55	4	292	6	3	134	264	A
Q1	.03721850	3	26	0	179	3	0	170	205	C
O1	.03873065	5	58	1	300	5	1	174	239	A
NO1	.04026859	0	244	0	68	0	0	136	66	A
P1	.04155259	1	314	1	120	1	0	146	130	C
K1	.04178075	3	299	2	190	3	1	170	123	A
N2	.07899925	17	262	7	189	17	7	9	258	A
M2	.08051140	68	290	30	241	71	22	18	284	A
L2	.08202355	3	308	2	248	4	2	27	293	A
S2	.08333334	22	334	12	293	24	7	25	326	A
K2	.08356149	5	313	2	298	5	0	17	312	A
MK3	.12229210	0	220	0	71	0	0	126	60	A
M4	.16102280	0	294	1	96	1	0	119	100	C
MS4	.16384470	1	193	0	139	1	0	40	170	A

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

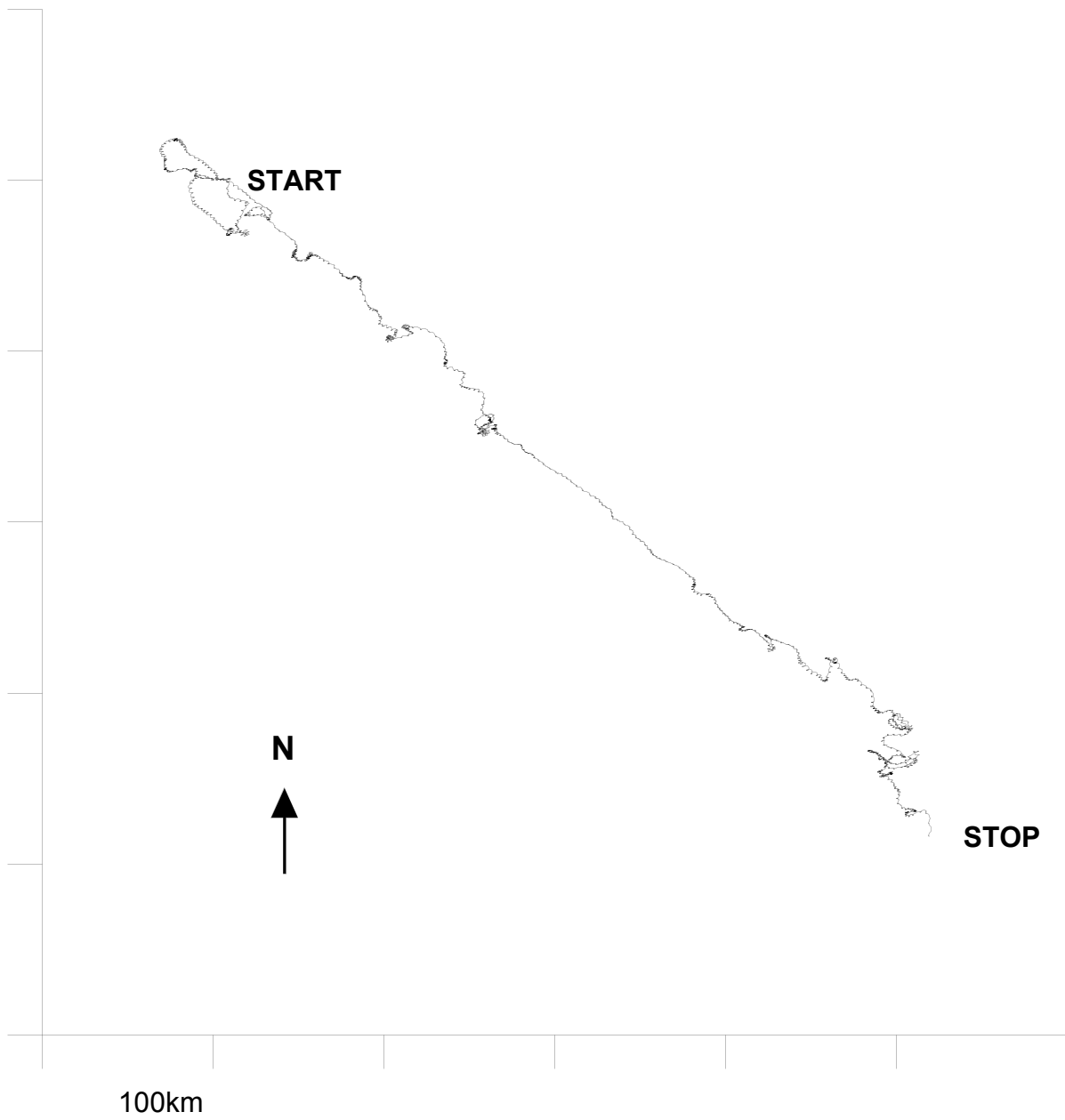
Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

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	27	33	31	29	26	27	27	20	19	15	300	300
50 - 100	18	31	51	69	49	40	38	44	52	30	17	12	450	749
100 - 150	5	15	33	44	18	10	10	18	25	11	3	3	195	944
150 - 200	1	5	11	11	3	2	3	4	7	2	0	0	49	994
200 - 300	0	0.12	2	1	0.36	0.24	0.36	0.49	1	0	0	0	6	1000
Total (ppt)	46	75	124	158	102	80	78	94	112	63	39	30		
Rel.flux (ppt)	36	76	147	181	97	70	70	93	121	59	28	21		
Avg.spd (mm/s)	61	79	91	88	73	67	70	76	83	72	55	54		
Max.spd (mm/s)	179	205	264	243	217	214	220	223	255	197	141	144		

NWNG0906 Aanderaa 721



NWNG0906 Aanderaa 721



NWSCo906

Latitude: 60°33.970'N
Longitude: 004°46.030'W
Echo sounding depth: 1088 m
Bottom depth corr.: 1065 m
Time of deployment: 7/6 - 2009 0058 UTC
Time of recovery: 17/5 - 2010 0344 UTC

ADCP:

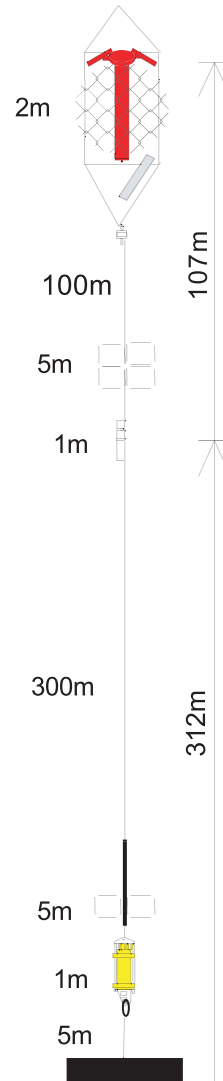
Instrument no.: RDI ADCP 1644
Instrument frequency: 75 kHz
Height above bottom: 419 m (corr.)
Depth: 646 m (corr.)
Time of first data: 7/6 - 2009 0120 UTC
Time of last data: 17/5 - 2010 0320 UTC
Sample interval: 20 min
No. of ensembles: 24775
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 611 m (corr.)
No. of bins: 22

Aanderaa:

Instrument no.: RCM9 718
Height above bottom: 312 m
Depth: 753 m (corr.)
Time of first data: 7/6 - 2009 0129 UTC
Time of last data: 17/5 - 2010 0229 UTC
Sample interval: 60 min
No. of records: 8258

Data:

All data ok.



NWSC0906 ADCP 1644

Error statistics for deployment: NWSC0906 updated 2010/11/04

Surface distance not edited

Heading, pitch and roll not edited

Temperature edited by EJ in Sep 2010

Velocity edited up to and including bin 22 by EJ in Sep 2010

Intensity edited up to and including bin 22 by EJ in Sep 2010

Total number of ensembles: 24775

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: 1

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	2	28	0	28	0	0	0	0	0	0	0	0	0
2	4	24	0	21	0	1	0	0	0	0	0	0	0
3	1	22	0	20	1	0	0	0	0	0	0	0	0
4	0	14	0	12	1	0	0	0	0	0	0	0	0
5	1	16	0	14	1	0	0	0	0	0	0	0	0
6	2	27	0	27	0	0	0	0	0	0	0	0	0
7	2	29	0	26	0	1	0	0	0	0	0	0	0
8	3	41	0	30	2	0	0	0	1	0	0	0	0
9	3	31	0	23	0	0	0	0	1	0	0	0	0
10	2	50	0	43	0	0	0	0	1	0	0	0	0
11	1	50	0	42	0	0	0	0	1	0	0	0	0
12	4	50	0	41	1	0	0	0	1	0	0	0	0
13	1	74	0	56	3	2	0	0	1	0	0	0	0
14	2	158	1	74	4	3	2	2	4	1	0	0	0
15	5	416	2	96	18	5	8	4	7	6	3	0	0
16	4	1208	5	202	55	29	17	12	23	16	10	0	0
17	3	2766	11	284	81	34	21	22	41	47	34	6	0
18	5	4236	17	346	120	58	41	23	53	56	53	16	0
19	7	5642	23	395	128	66	54	34	86	64	58	38	0
20	4	6917	28	471	167	99	45	46	90	78	53	62	0
21	4	8206	33	505	158	76	67	41	78	84	47	85	5
22	5	10138	41	544	171	91	65	47	67	80	55	98	15

NWSC0906 ADCP 1644

Deployment: NWSC0906 updated 2010/11/04
 Instrument no.: 1644
 Instrument freq.: 75
 Latitude: 60 33.970 N
 Longitude: 04 46.030 W
 Bottom depth: 1065
 Instrument depth: 646
 Center depth of first bin: 611
 Bin length: 25
 Number of bins: 22
 Number of first ensemble: 326
 Time of first ensemble: 2009 06 07 01 20
 Number of last ensemble: 25100
 Time of last ensemble: 2010 05 17 03 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -6.0

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	611	454	164	51	189	999
2	586	479	166	55	188	999
3	561	504	168	57	186	999
4	536	529	170	60	183	999
5	511	554	175	63	179	999
6	486	579	180	67	174	999
7	461	604	185	71	170	999
8	436	629	194	76	166	998
9	411	654	203	82	161	999
10	386	679	210	88	158	998
11	361	704	216	91	156	998
12	336	729	223	92	154	998
13	311	754	232	91	152	997
14	286	779	244	93	148	994
15	261	804	253	98	145	983
16	236	829	262	104	143	951
17	211	854	268	109	141	888
18	186	879	275	114	138	829
19	161	904	283	121	137	772
20	136	929	290	124	137	721
21	111	954	296	127	138	669
22	86	979	306	130	139	591

NWSC0906 ADCP 1644

Frequency of high speeds.

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

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Bin Depth	Speed (cm/s)																	
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 611	734	314	80	13	3	1	0	0	0	0	0	0	0	0	0	0	0	0
2 586	741	319	84	14	3	1	0	0	0	0	0	0	0	0	0	0	0	0
3 561	751	327	87	16	4	1	0	0	0	0	0	0	0	0	0	0	0	0
4 536	753	338	93	17	4	1	0	0	0	0	0	0	0	0	0	0	0	0
5 511	771	356	105	20	5	2	0	0	0	0	0	0	0	0	0	0	0	0
6 486	779	374	117	25	5	2	0	0	0	0	0	0	0	0	0	0	0	0
7 461	790	395	132	29	6	2	0	0	0	0	0	0	0	0	0	0	0	0
8 436	807	427	153	39	8	2	0	0	0	0	0	0	0	0	0	0	0	0
9 411	829	464	176	49	11	2	0	0	0	0	0	0	0	0	0	0	0	0
10 386	839	483	198	64	15	3	0	0	0	0	0	0	0	0	0	0	0	0
11 361	835	502	215	80	22	5	1	0	0	0	0	0	0	0	0	0	0	0
12 336	842	518	234	92	31	8	1	0	0	0	0	0	0	0	0	0	0	0
13 311	857	542	260	107	41	12	3	0	0	0	0	0	0	0	0	0	0	0
14 286	869	577	290	122	50	18	5	1	0	0	0	0	0	0	0	0	0	0
15 261	868	599	314	133	56	23	8	1	0	0	0	0	0	0	0	0	0	0
16 236	846	600	324	139	61	28	13	4	0	0	0	0	0	0	0	0	0	0
17 211	794	568	316	144	63	31	16	9	2	0	0	0	0	0	0	0	0	0
18 186	744	539	308	146	65	33	18	12	5	2	0	0	0	0	0	0	0	0
19 161	692	513	301	148	69	34	20	12	8	3	1	0	0	0	0	0	0	0
20 136	648	489	292	145	69	36	21	13	8	5	2	1	0	0	0	0	0	0
21 111	605	462	284	145	69	36	21	12	7	4	2	1	1	0	0	0	0	0
22 86	540	412	266	144	69	38	23	13	6	3	1	1	0	0	0	0	0	0

NWSC0906 ADCP 1644

Harmonic constants for constituent M2 for deployment NWSC0906.

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	611	159	250	81	250	178	0	27	250	C
02	586	158	250	82	251	178	1	27	250	C
03	561	156	250	84	253	177	4	28	251	C
04	536	155	250	85	255	177	6	29	251	C
05	511	153	251	90	256	178	7	30	253	C
06	486	150	253	96	259	178	8	33	255	C
07	461	146	255	101	260	177	8	35	257	C
08	436	145	257	108	260	181	5	37	258	C
09	411	145	259	113	261	184	3	38	259	C
10	386	140	261	119	263	184	4	40	262	C
11	361	134	262	122	266	181	5	42	264	C
12	336	128	264	126	268	179	7	44	266	C
13	311	123	268	136	270	183	3	48	269	C
14	286	122	272	148	271	192	2	51	272	A
15	261	120	276	158	272	198	7	53	273	A
16	236	119	279	167	273	205	12	54	275	A
17	211	119	283	173	273	209	16	56	276	A
18	186	118	286	179	273	214	21	57	277	A
19	161	115	288	187	274	218	24	59	278	A
20	136	117	289	192	274	223	26	59	278	A
21	111	116	289	193	273	224	26	59	277	A
22	86	123	287	191	272	226	27	58	276	A

Harmonic constants for constituent S2 for deployment NWSC0906.

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	611	53	290	36	295	64	3	34	292	C
02	586	53	291	38	294	65	2	35	292	C
03	561	54	293	40	293	67	0	36	293	C
04	536	54	294	41	294	68	0	37	294	A
05	511	54	296	43	296	69	0	39	296	A
06	486	53	297	44	297	69	0	40	297	C
07	461	51	296	45	297	68	0	41	296	C
08	436	52	297	48	296	70	1	43	296	A
09	411	52	299	49	299	71	0	44	299	A
10	386	51	302	52	301	73	1	45	301	A
11	361	51	300	51	301	72	1	45	301	C
12	336	51	297	50	302	72	3	45	299	C
13	311	50	297	50	304	71	4	45	300	C
14	286	48	298	50	306	70	4	46	302	C
15	261	48	302	48	305	68	1	45	304	C
16	236	49	305	48	303	69	1	45	304	A
17	211	52	306	50	306	73	0	44	306	C
18	186	50	309	50	307	71	2	45	308	A
19	161	51	310	45	305	68	3	42	308	A
20	136	48	310	45	300	65	6	43	305	A
21	111	46	305	43	296	63	5	43	301	A
22	86	47	302	41	296	62	3	41	300	A

NWSC0906 ADCP 1644

Harmonic constants for constituent N2 for deployment NWSC0906.

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	611	35	227	14	219	38	2	22	226	A
02	586	35	228	15	223	38	1	23	227	A
03	561	33	227	15	233	36	1	24	228	C
04	536	31	227	16	241	35	4	27	230	C
05	511	30	231	19	244	35	4	31	234	C
06	486	32	232	21	241	38	3	33	235	C
07	461	33	236	22	235	40	0	33	235	A
08	436	34	234	22	230	41	1	32	233	A
09	411	34	240	25	235	42	2	37	238	A
10	386	31	245	28	238	42	2	41	242	A
11	361	29	247	29	243	41	2	44	245	A
12	336	29	250	31	245	43	2	47	247	A
13	311	29	255	33	245	43	4	49	249	A
14	286	25	258	36	251	44	2	55	253	A
15	261	23	267	40	258	46	3	60	260	A
16	236	25	269	39	258	46	4	58	261	A
17	211	26	268	39	257	47	4	57	260	A
18	186	26	273	41	256	48	7	58	261	A
19	161	26	271	43	252	50	7	60	257	A
20	136	26	266	41	257	48	3	58	260	A
21	111	24	262	42	258	49	2	60	259	A
22	86	28	268	46	245	53	9	60	251	A

Harmonic constants for constituent O1 for deployment NWSC0906.

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	611	10	9	9	36	13	3	41	20	C
02	586	10	9	9	34	13	3	40	19	C
03	561	10	12	9	36	13	3	39	21	C
04	536	10	8	8	41	12	4	40	22	C
05	511	10	8	8	41	12	3	36	20	C
06	486	11	14	9	38	14	3	40	24	C
07	461	11	16	9	42	14	3	37	26	C
08	436	12	14	9	35	14	3	36	22	C
09	411	11	8	8	34	13	3	35	17	C
10	386	10	7	7	42	12	3	34	18	C
11	361	10	15	8	37	13	2	37	23	C
12	336	10	12	8	33	13	2	37	19	C
13	311	10	18	8	35	13	2	40	25	C
14	286	9	17	7	41	11	2	38	27	C
15	261	10	15	8	47	12	3	40	28	C
16	236	10	13	10	40	13	3	44	26	C
17	211	11	23	12	41	16	3	48	33	C
18	186	9	43	13	31	16	2	53	35	A
19	161	8	78	12	42	14	4	57	53	A
20	136	13	102	15	42	17	10	55	64	A
21	111	17	96	17	37	21	12	44	68	A
22	86	18	101	17	28	20	15	40	69	A

NWSC0906 ADCP 1644

Harmonic constants for constituent K1 for deployment NWSC0906.

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	611	6	237	2	242	7	0	20	237	C
02	586	6	237	3	247	6	0	26	239	C
03	561	6	232	2	255	7	1	21	235	C
04	536	7	229	2	243	7	0	15	230	C
05	511	8	233	3	231	8	0	21	232	A
06	486	6	238	4	244	7	0	36	240	C
07	461	5	245	3	266	6	1	25	249	C
08	436	6	234	3	278	6	2	19	240	C
09	411	7	218	3	252	7	2	22	224	C
10	386	7	202	4	206	8	0	28	203	C
11	361	5	196	7	209	9	1	56	205	C
12	336	2	127	10	213	10	2	89	213	C
13	311	4	105	12	214	12	3	96	216	C
14	286	3	150	12	204	12	2	81	202	C
15	261	5	190	9	196	11	1	59	195	C
16	236	8	211	5	207	10	0	32	210	A
17	211	12	252	6	253	13	0	29	252	C
18	186	17	271	8	271	19	0	26	271	A
19	161	22	269	12	322	23	9	22	278	C
20	136	23	274	19	333	26	14	34	294	C
21	111	22	268	28	327	31	17	57	308	C
22	86	21	268	33	326	36	17	66	314	C

NWSC0906 AANDERAA 718

Deployment: NWSC0906 analyzed from beginning to end
 Instrument no.: 718
 Instrument type: Aanderaa
 Latitude: 60 33.970 N
 Longitude: 04 46.030 W
 Bottom depth: 1065
 Instrument depth: 753
 Number of records: 8258
 Time of first record: 2009 06 07 01 29
 Time of last record : 2010 05 17 02 29
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8258	0
Column 8 : Speed	8258	0
Column 9 : Direct	8258	0

Comments

Residual current: 49 mm/sec towards: 190 degrees

TIDAL ANALYSIS

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

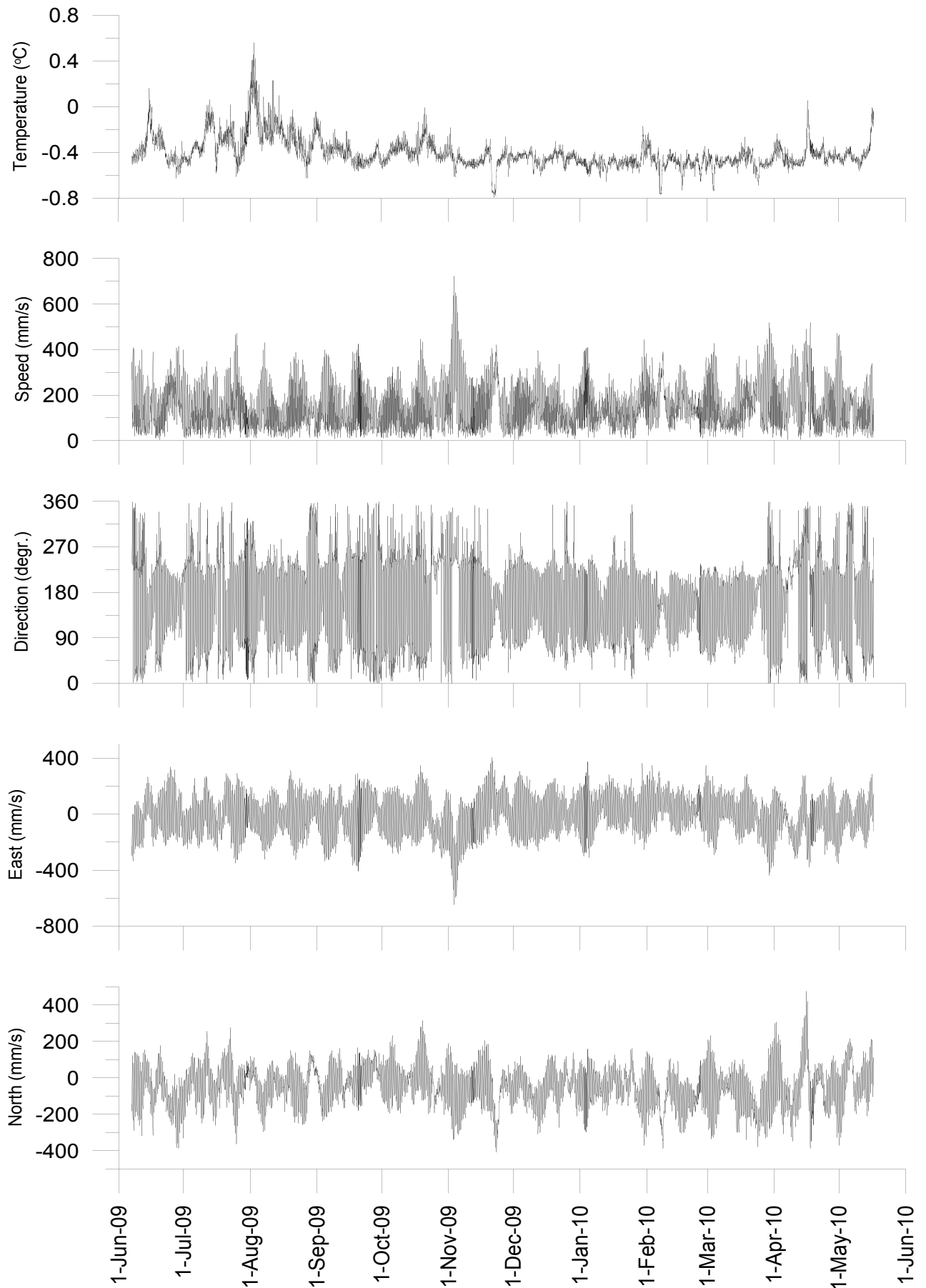
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	15	137	13	195	17	9	37	159	C
MSF	.00282193	11	154	15	337	18	0	126	336	A
Q1	.03721850	3	330	4	349	5	1	51	341	C
O1	.03873065	9	14	10	36	14	3	47	26	C
NO1	.04026859	2	88	1	96	2	0	29	90	C
P1	.04155259	0	268	3	315	3	0	84	314	C
K1	.04178075	6	230	3	265	6	2	24	236	C
N2	.07899925	32	220	16	221	36	0	26	220	C
M2	.08051140	151	249	92	248	177	1	31	249	A
L2	.08202355	3	321	5	255	5	2	76	261	A
S2	.08333334	50	289	41	293	65	2	39	291	C
K2	.08356149	12	287	12	306	17	3	44	296	C
MK3	.12229210	0	209	1	345	1	0	94	345	C
M4	.16102280	1	263	1	186	1	1	9	258	A
MS4	.16384470	1	323	1	331	1	0	20	324	C

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

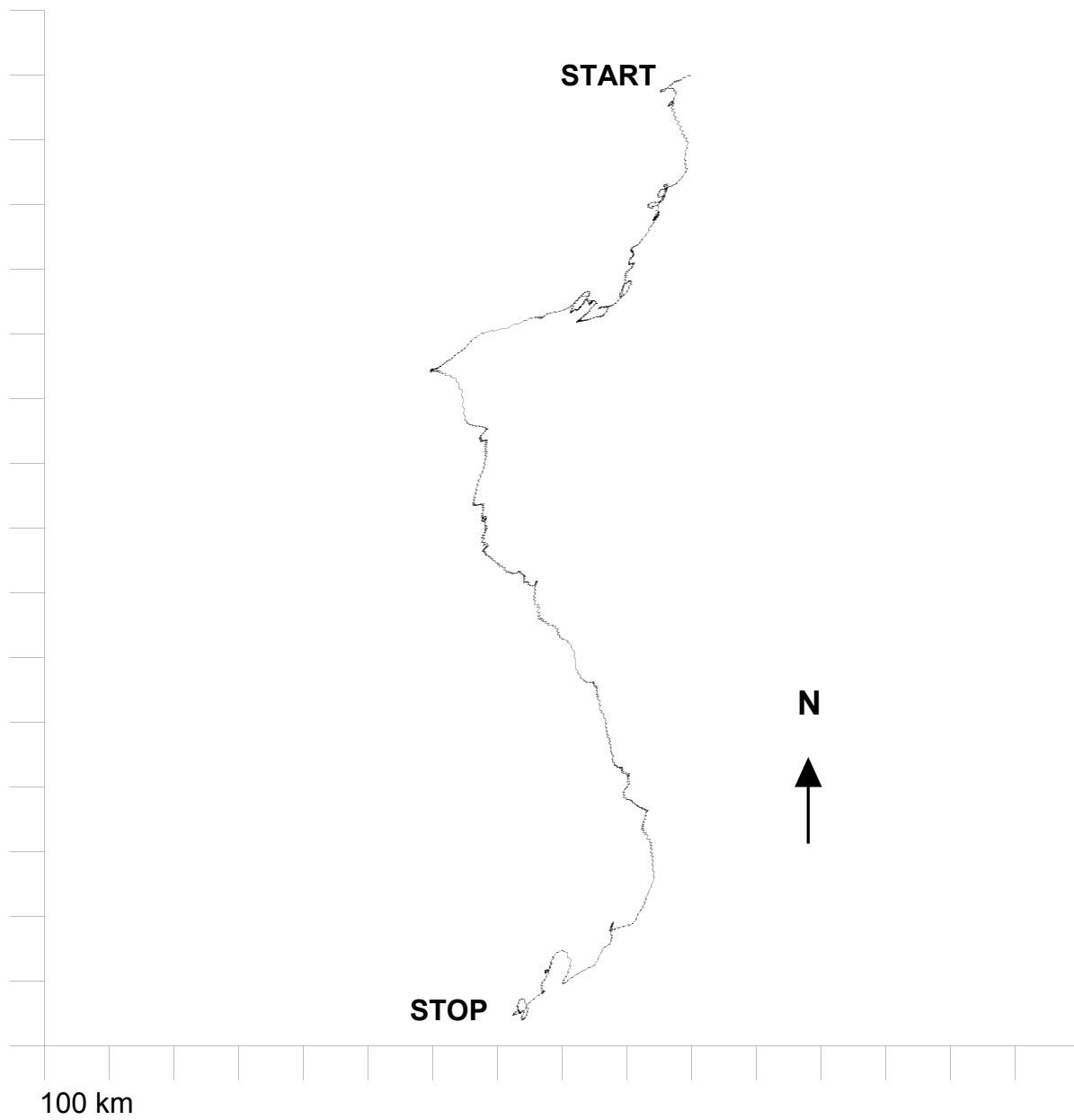
Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	8	9	8	9	10	10	9	8	7	7	4	5	95	95
50 - 100	10	15	30	26	22	22	29	25	20	10	5	5	219	314
100 - 150	8	23	42	25	16	15	28	35	24	6	2	3	226	540
150 - 200	4	19	36	17	7	10	22	40	22	3	1	1	182	722
200 - 300	2	20	34	8	5	6	25	75	26	2	0.36	0.12	203	925
300 - 400	1	7	4	2	1	2	8	28	7	0.48	0.24	0.36	61	986
400 - 500	0.48	1	0.12	0.12	0	0	1	7	2	0	0	0.12	11	997
500 - 600	0	0	0	0	0	0	0	1	1	0	0	0	2	999
600 - 700	0	0	0	0	0	0	0	0.12	1	0	0	0	1	1000
700 - 800	0	0	0	0	0	0	0	0	0.12	0	0	0	.12	1000
Total (ppt)	32	93	152	87	62	65	123	220	110	28	13	15		
Rel.flux (ppt)	23	95	150	70	44	49	123	291	123	18	7	8		
Avg.spd (mm/s)	110	161	154	126	112	119	157	208	175	101	85	86		
Max.spd (mm/s)	490	446	408	405	343	393	422	639	722	340	340	422		

NWSC0906 Aanderaa 718



NWSC0906 Aanderaa 718



NWSX0906

Latitude: 60°51.500'N

Longitude: 005°29.700'W

Echo sounding depth: 559 m

Bottom depth corr.: 552 m

Time of deployment: 6/6 - 2009 2142 UTC

Time of recovery: 17/5 - 2010 1048 UTC

ADCP:

Instrument no.: RDI ADCP 3368

Instrument frequency: 75 kHz

Height above bottom: 1 m

Depth: 551 m (corr.)

MicroCat:

Instrument no.: 0984

Height above bottom: 1 m

Time of first data: 06/06 - 2009 2200 UTC

Time of last data: 17/05 - 2010 1050 UTC

Sample interval: 10 min

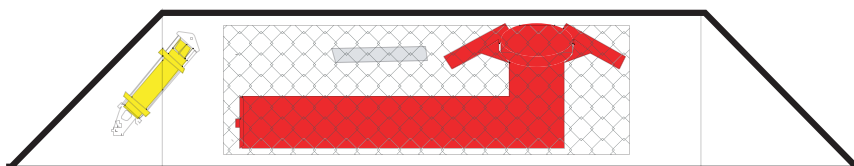
No. of ensembles: 49614

Instrument depth: 551 m

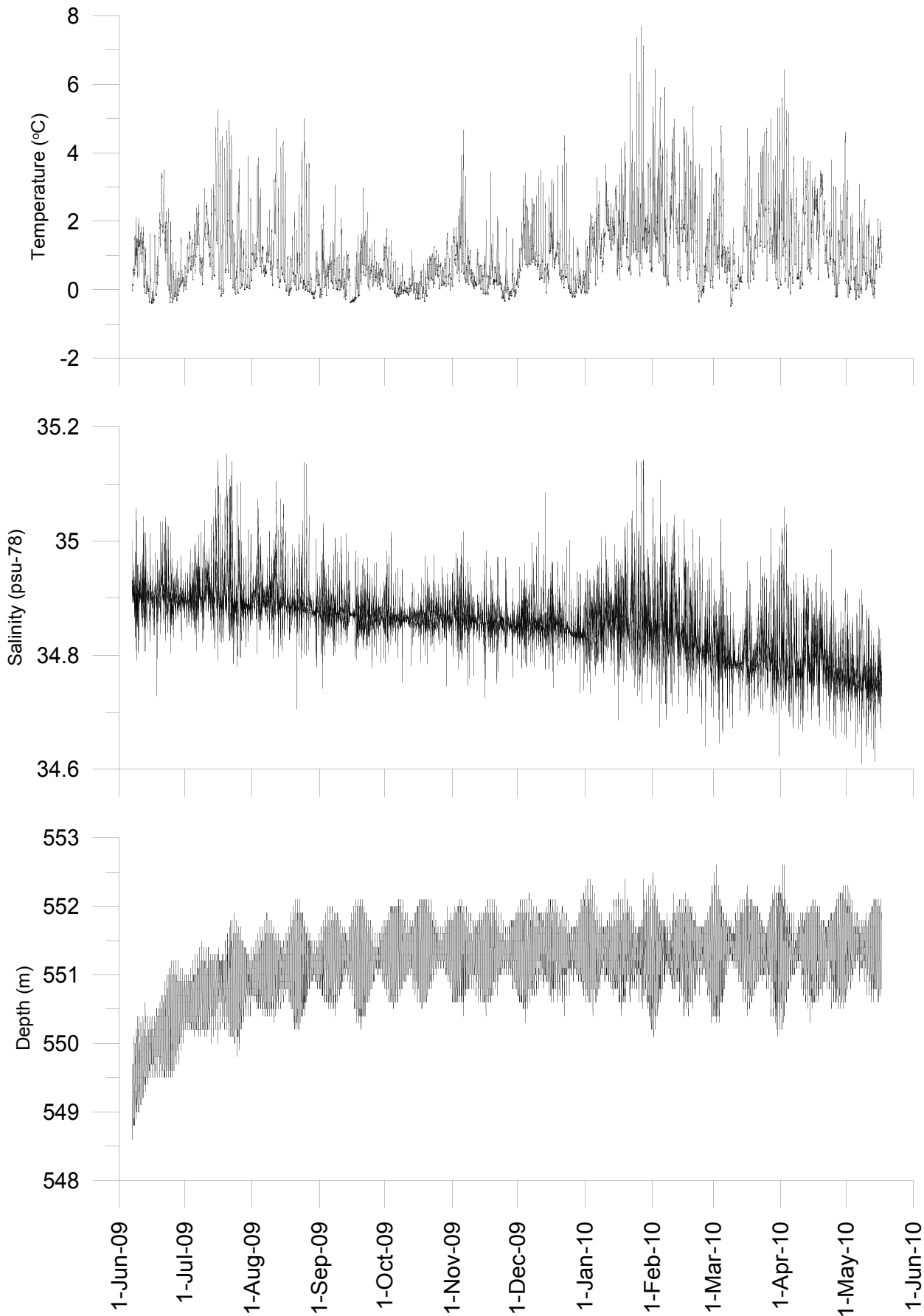
Data:

There are no data from the ADCP due to battery case failure.

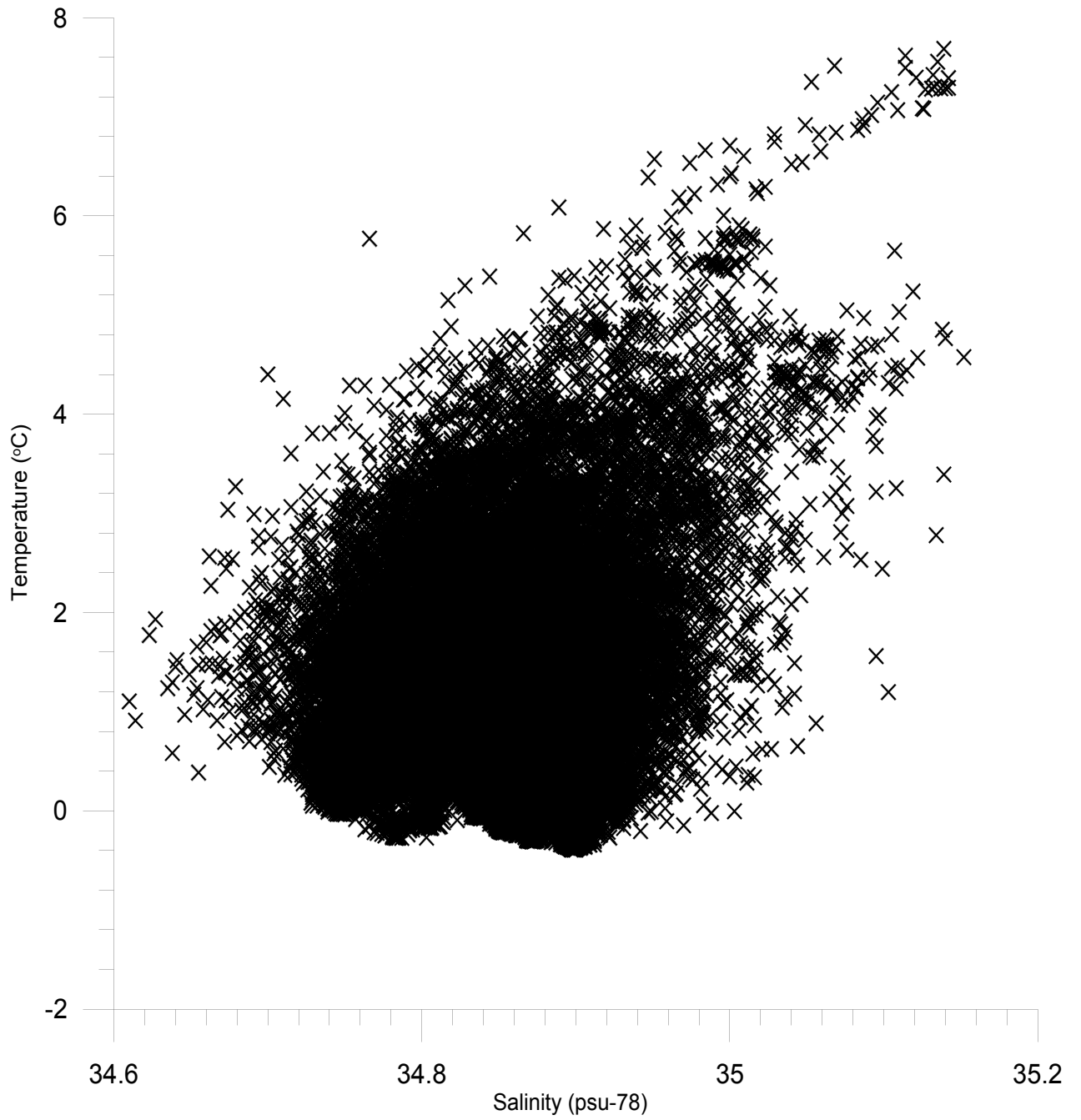
There is a drift in the salinity from the MicroCat.



NWSX0906 MicroCat 0984



NWSX0906 MicroCat 0984



NWSY0908

Latitude: 60°42.934'N
Longitude: 005°04.333'W
Echo sounding depth: 916 m
Bottom depth corr.: 910 m
Time of deployment: 30/8 - 2009 2027 UTC
Time of recovery: 17/5 - 2010 0654 UTC

ADCP:

Instrument no.: RDI ADCP 8552
Instrument frequency: 75 kHz
Height above bottom: 213 m
Depth: 697 m (corr.)
Time of first data: 30/8 - 2009 2100 UTC
Time of last data: 17/5 - 2010 0620 UTC
Sample interval: 20 min
No. of ensembles: 18677
Pings per ens.: 10
Binlength: 10 m
Depth of first bin: 679 m (corr.)
No. of bins: 62

Data:

All data ok.



NWSY0908 ADCP 8552

Error statistics for deployment: NWSY0908 updated 2010/11/11

 Surface distance not edited
 Depth edited by EM in Nov 2010
 Heading, pitch and roll not edited
 Temperature edited by EJ in Sep 2010
 Velocity edited up to and including bin 62 by EJ in Sep 2010
 Intensity edited up to and including bin 62 by EJ in Sep 2010

Total number of ensembles: 18677
 Interval between ensembles: 20 min
 Original number of bins: 70
 Number of acceptable velocity bins: 62
 Number of acceptable intensity bins: 62

Flagged values have been replaced by error codes: -999.99 for temperature and depth, -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 depth ens. flagged : 0
 Number of temperature ens. flagged: 1

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

Bin	Int. ens. flgd	Velocity ens. flgd	% flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	15	0	13	1	0	0	0	0	0	0	0	0	0
2	0	20	0	20	0	0	0	0	0	0	0	0	0	0
3	0	17	0	17	0	0	0	0	0	0	0	0	0	0
4	0	18	0	18	0	0	0	0	0	0	0	0	0	0
5	0	21	0	21	0	0	0	0	0	0	0	0	0	0
6	0	21	0	19	1	0	0	0	0	0	0	0	0	0
7	0	21	0	19	1	0	0	0	0	0	0	0	0	0
8	0	16	0	16	0	0	0	0	0	0	0	0	0	0
9	0	15	0	15	0	0	0	0	0	0	0	0	0	0
10	0	23	0	21	1	0	0	0	0	0	0	0	0	0
11	0	23	0	21	1	0	0	0	0	0	0	0	0	0
12	0	20	0	18	1	0	0	0	0	0	0	0	0	0
13	0	25	0	21	2	0	0	0	0	0	0	0	0	0
14	0	23	0	18	1	1	0	0	0	0	0	0	0	0
15	0	25	0	23	1	0	0	0	0	0	0	0	0	0
16	2	13	0	13	0	0	0	0	0	0	0	0	0	0
17	1	29	0	20	0	3	0	0	0	0	0	0	0	0
18	1	27	0	27	0	0	0	0	0	0	0	0	0	0
19	0	21	0	17	0	0	1	0	0	0	0	0	0	0
20	1	37	0	31	3	0	0	0	0	0	0	0	0	0
21	1	23	0	19	0	0	1	0	0	0	0	0	0	0
22	0	29	0	27	1	0	0	0	0	0	0	0	0	0
23	0	34	0	31	0	1	0	0	0	0	0	0	0	0
24	1	28	0	28	0	0	0	0	0	0	0	0	0	0
25	1	24	0	22	1	0	0	0	0	0	0	0	0	0
26	1	31	0	26	1	1	0	0	0	0	0	0	0	0
27	1	35	0	27	2	0	1	0	0	0	0	0	0	0
28	2	49	0	36	1	2	0	1	0	0	0	0	0	0
29	1	54	0	36	3	1	1	1	0	0	0	0	0	0
30	2	37	0	30	2	1	0	0	0	0	0	0	0	0
31	1	45	0	34	2	1	1	0	0	0	0	0	0	0
32	0	70	0	44	5	1	2	1	0	0	0	0	0	0
33	0	58	0	37	3	2	1	1	0	0	0	0	0	0
34	1	73	0	58	1	0	0	0	2	0	0	0	0	0
35	1	59	0	40	2	2	1	1	0	0	0	0	0	0
36	1	50	0	41	2	0	0	1	0	0	0	0	0	0
37	1	69	0	50	3	1	1	0	1	0	0	0	0	0
38	0	66	0	39	6	2	1	1	0	0	0	0	0	0
39	1	64	0	38	7	2	0	0	1	0	0	0	0	0
40	0	68	0	45	5	1	1	0	1	0	0	0	0	0
41	1	72	0	52	3	0	0	0	2	0	0	0	0	0
42	1	86	0	46	6	2	2	0	2	0	0	0	0	0
43	1	132	1	71	5	3	0	0	1	0	0	0	0	0
44	0	192	1	62	13	2	0	2	5	4	0	0	0	0
45	0	305	2	82	9	1	1	3	6	7	2	0	0	0
46	0	413	2	100	9	5	5	3	12	6	3	0	0	0
47	3	681	4	117	28	7	5	8	11	11	7	0	0	0
48	1	939	5	134	40	14	10	7	17	10	12	0	0	0
49	4	1301	7	167	46	20	11	14	14	15	14	6	0	0
50	1	1679	9	175	48	15	6	11	22	23	12	14	0	0
51	2	2065	11	182	53	31	19	8	22	22	19	17	0	0
52	1	2478	13	180	51	22	18	15	27	28	26	21	0	0
53	0	2877	15	199	73	36	15	9	26	25	34	25	0	0
54	0	3269	18	189	68	29	19	9	26	28	36	33	0	0
55	1	3758	20	210	62	27	9	15	32	25	35	47	0	0
56	2	4250	23	240	55	24	10	10	35	29	37	55	0	0
57	0	4843	26	233	67	27	21	12	31	34	40	67	0	0
58	2	5377	29	267	79	28	20	15	29	50	42	69	0	0
59	2	5981	32	336	80	36	25	12	22	54	41	83	0	0
60	0	6674	36	365	93	44	19	14	33	59	39	90	4	0
61	1	7530	40	400	127	55	24	20	43	54	32	99	7	0
62	1	8538	46	563	153	50	29	18	48	75	46	92	12	0

NWSY0908 ADCP 8552

Deployment: NWSY0908 updated 2010/11/11
 Instrument no.: 8552
 Instrument freq.: 75
 Latitude: 60 42.934 N
 Longitude: 05 04.333 W
 Bottom depth: 910
 Instrument depth: 697
 Center depth of first bin: 679
 Bin length: 10
 Number of bins: 62
 Number of first ensemble: 454
 Time of first ensemble: 2009 08 30 21 00
 Number of last ensemble: 19130
 Time of last ensemble: 2010 05 17 06 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -6.0

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	679	231	203	48	188	999
2	669	241	203	48	188	999
3	659	251	204	48	188	999
4	649	261	203	48	189	999
5	639	271	203	48	188	999
6	629	281	203	48	188	999
7	619	291	201	48	188	999
8	609	301	202	48	188	999
9	599	311	201	49	188	999
10	589	321	200	49	188	999
11	579	331	200	49	187	999
12	569	341	199	50	187	999
13	559	351	198	50	187	999
14	549	361	196	51	187	999
15	539	371	196	52	186	999
16	529	381	195	53	186	999
17	519	391	194	54	184	998
18	509	401	194	55	184	999
19	499	411	194	56	183	999
20	489	421	195	58	183	998
21	479	431	195	59	183	999
22	469	441	195	62	183	998
23	459	451	195	64	183	998
24	449	461	196	65	182	999
25	439	471	197	67	181	999
26	429	481	200	68	180	998
27	419	491	202	71	179	998
28	409	501	205	73	178	997
29	399	511	208	75	178	997
30	389	521	213	78	178	998
31	379	531	217	81	177	998
32	369	541	221	84	178	996
33	359	551	227	85	179	997
34	349	561	232	86	179	996
35	339	571	237	86	180	997
36	329	581	240	84	179	997
37	319	591	244	82	178	996
38	309	601	246	80	177	996
39	299	611	250	79	176	997
40	289	621	253	80	174	996
41	279	631	255	79	172	996
42	269	641	257	80	171	995
43	259	651	261	82	169	993
44	249	661	263	83	168	990
45	239	671	267	85	167	984
46	229	681	271	85	166	978
47	219	691	273	85	166	964
48	209	701	275	87	165	950
49	199	711	277	86	164	930
50	189	721	278	86	162	910
51	179	731	280	86	161	889
52	169	741	282	87	159	867
53	159	751	283	87	158	846
54	149	761	285	86	156	825
55	139	771	287	85	155	799
56	129	781	289	84	154	772
57	119	791	291	83	152	741
58	109	801	294	82	150	712
59	99	811	299	83	147	680
60	89	821	303	84	143	643
61	79	831	309	85	142	597
62	69	841	307	84	135	543

NWSY0908 ADCP 8552

Frequency of high speeds.

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

Bin Depth no. m	Speed (cm/s)																	
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 679	837	473	172	38	6	1	0	0	0	0	0	0	0	0	0	0	0	0
2 669	841	469	176	39	5	1	0	0	0	0	0	0	0	0	0	0	0	0
3 659	838	476	177	40	6	1	0	0	0	0	0	0	0	0	0	0	0	0
4 649	842	476	174	39	6	1	0	0	0	0	0	0	0	0	0	0	0	0
5 639	838	472	171	38	6	1	0	0	0	0	0	0	0	0	0	0	0	0
6 629	839	473	171	38	6	1	0	0	0	0	0	0	0	0	0	0	0	0
7 619	833	467	170	40	7	1	0	0	0	0	0	0	0	0	0	0	0	0
8 609	834	466	170	40	6	1	0	0	0	0	0	0	0	0	0	0	0	0
9 599	835	464	169	39	6	1	0	0	0	0	0	0	0	0	0	0	0	0
10 589	831	462	169	40	6	1	0	0	0	0	0	0	0	0	0	0	0	0
11 579	829	460	167	38	6	1	0	0	0	0	0	0	0	0	0	0	0	0
12 569	828	459	164	38	6	1	0	0	0	0	0	0	0	0	0	0	0	0
13 559	825	451	162	37	6	1	0	0	0	0	0	0	0	0	0	0	0	0
14 549	820	445	158	35	7	1	0	0	0	0	0	0	0	0	0	0	0	0
15 539	820	443	158	35	6	1	0	0	0	0	0	0	0	0	0	0	0	0
16 529	818	439	156	35	6	1	0	0	0	0	0	0	0	0	0	0	0	0
17 519	814	438	154	35	6	0	0	0	0	0	0	0	0	0	0	0	0	0
18 509	812	433	156	36	6	0	0	0	0	0	0	0	0	0	0	0	0	0
19 499	811	432	157	40	6	0	0	0	0	0	0	0	0	0	0	0	0	0
20 489	809	430	163	41	8	0	0	0	0	0	0	0	0	0	0	0	0	0
21 479	804	430	163	45	8	0	0	0	0	0	0	0	0	0	0	0	0	0
22 469	801	433	163	45	8	1	0	0	0	0	0	0	0	0	0	0	0	0
23 459	802	429	167	46	10	1	0	0	0	0	0	0	0	0	0	0	0	0
24 449	802	435	168	48	11	1	0	0	0	0	0	0	0	0	0	0	0	0
25 439	809	438	168	48	11	1	0	0	0	0	0	0	0	0	0	0	0	0
26 429	816	449	173	51	12	1	0	0	0	0	0	0	0	0	0	0	0	0
27 419	815	452	180	57	15	3	0	0	0	0	0	0	0	0	0	0	0	0
28 409	824	464	187	63	17	4	0	0	0	0	0	0	0	0	0	0	0	0
29 399	825	471	196	69	21	4	0	0	0	0	0	0	0	0	0	0	0	0
30 389	831	481	211	79	25	6	1	0	0	0	0	0	0	0	0	0	0	0
31 379	834	488	221	86	29	7	1	0	0	0	0	0	0	0	0	0	0	0
32 369	840	497	230	97	33	8	0	0	0	0	0	0	0	0	0	0	0	0
33 359	843	516	246	106	40	12	1	0	0	0	0	0	0	0	0	0	0	0
34 349	847	528	264	118	44	14	2	0	0	0	0	0	0	0	0	0	0	0
35 339	851	536	279	127	50	16	3	0	0	0	0	0	0	0	0	0	0	0
36 329	853	551	289	135	54	19	4	0	0	0	0	0	0	0	0	0	0	0
37 319	857	558	297	140	57	19	4	0	0	0	0	0	0	0	0	0	0	0
38 309	862	566	308	145	59	20	4	0	0	0	0	0	0	0	0	0	0	0
39 299	863	577	322	151	59	19	4	0	0	0	0	0	0	0	0	0	0	0
40 289	867	589	331	153	59	19	4	0	0	0	0	0	0	0	0	0	0	0
41 279	869	599	337	154	59	19	4	0	0	0	0	0	0	0	0	0	0	0
42 269	871	609	341	163	61	20	5	0	0	0	0	0	0	0	0	0	0	0
43 259	875	615	349	168	65	22	6	0	0	0	0	0	0	0	0	0	0	0
44 249	873	617	356	174	68	23	6	0	0	0	0	0	0	0	0	0	0	0
45 239	872	620	363	179	72	24	6	0	0	0	0	0	0	0	0	0	0	0
46 229	871	623	368	186	77	27	7	1	0	0	0	0	0	0	0	0	0	0
47 219	859	620	371	187	82	28	8	1	0	0	0	0	0	0	0	0	0	0
48 209	847	614	372	192	84	30	8	1	0	0	0	0	0	0	0	0	0	0
49 199	828	603	369	193	84	31	7	1	0	0	0	0	0	0	0	0	0	0
50 189	811	591	364	191	85	30	9	2	0	0	0	0	0	0	0	0	0	0
51 179	795	579	360	189	86	30	9	3	0	0	0	0	0	0	0	0	0	0
52 169	773	568	355	188	88	32	9	2	0	0	0	0	0	0	0	0	0	0
53 159	755	554	349	187	90	31	9	2	0	0	0	0	0	0	0	0	0	0
54 149	737	541	345	184	89	34	8	2	0	0	0	0	0	0	0	0	0	0
55 139	714	529	338	184	90	35	9	2	0	0	0	0	0	0	0	0	0	0
56 129	691	508	329	184	89	36	10	2	0	0	0	0	0	0	0	0	0	0
57 119	663	490	321	179	86	37	11	3	0	0	0	0	0	0	0	0	0	0
58 109	639	476	309	175	85	37	12	3	0	0	0	0	0	0	0	0	0	0
59 99	618	465	305	176	87	35	12	3	0	0	0	0	0	0	0	0	0	0
60 89	584	444	293	172	86	36	12	4	0	0	0	0	0	0	0	0	0	0
61 79	546	418	279	166	84	36	12	3	0	0	0	0	0	0	0	0	0	0
62 69	495	383	257	149	72	30	10	3	0	0	0	0	0	0	0	0	0	0

NWSY0908 ADCP 8552

Harmonic constants for constituent M2 for deployment NWSY0908.

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	679	215	244	90	209	228	49	20	240	A
02	669	215	244	90	209	228	49	20	240	A
03	659	215	244	91	209	228	49	20	240	A
04	649	215	244	89	210	228	47	20	240	A
05	639	214	244	89	210	227	47	20	240	A
06	629	214	244	89	212	227	45	20	240	A
07	619	212	244	88	212	225	44	20	240	A
08	609	212	244	88	212	225	44	20	240	A
09	599	211	244	87	212	224	43	20	240	A
10	589	210	244	86	212	223	42	20	240	A
11	579	208	244	85	214	221	40	20	240	A
12	569	207	244	84	215	220	38	20	240	A
13	559	203	243	83	217	217	35	21	240	A
14	549	200	243	82	218	214	32	21	240	A
15	539	198	243	81	221	212	29	21	240	A
16	529	196	243	79	222	209	26	21	240	A
17	519	192	243	79	224	206	24	21	240	A
18	509	188	243	80	226	203	21	22	241	A
19	499	184	243	80	230	200	17	23	241	A
20	489	181	244	82	233	198	14	24	242	A
21	479	175	244	83	236	193	11	25	243	A
22	469	169	244	83	240	188	5	26	243	A
23	459	162	244	83	244	182	1	27	244	A
24	449	154	245	84	249	175	5	29	246	C
25	439	145	245	87	254	169	11	31	248	C
26	429	137	246	91	259	163	17	33	250	C
27	419	128	247	94	262	158	20	36	252	C
28	409	123	248	100	265	157	23	39	255	C
29	399	118	250	104	267	155	23	41	257	C
30	389	112	252	109	269	154	23	44	260	C
31	379	106	254	115	271	155	23	47	263	C
32	369	101	258	122	273	157	21	51	267	C
33	359	98	262	131	274	163	16	53	270	C
34	349	96	266	137	275	167	12	55	272	C
35	339	94	271	145	275	173	5	57	274	C
36	329	93	276	152	274	178	2	58	275	A
37	319	93	280	159	273	184	9	60	275	A
38	309	95	283	165	273	190	14	60	276	A
39	299	98	287	172	273	197	20	61	276	A
40	289	100	289	177	273	202	24	61	277	A
41	279	101	290	181	272	206	28	61	277	A
42	269	104	293	184	272	209	32	61	277	A
43	259	105	294	188	272	212	35	62	277	A
44	249	108	295	191	271	216	38	62	277	A
45	239	111	295	191	271	217	39	61	277	A
46	229	114	296	195	271	221	43	61	277	A
47	219	114	297	197	271	223	45	61	277	A
48	209	116	297	198	270	225	46	61	277	A
49	199	116	298	200	271	226	47	61	277	A
50	189	114	298	203	271	229	46	62	277	A
51	179	113	299	202	271	227	47	62	277	A
52	169	112	300	204	271	228	49	63	277	A
53	159	114	300	205	271	229	50	63	277	A
54	149	112	302	203	271	226	53	63	277	A
55	139	114	302	210	270	233	54	64	276	A
56	129	115	302	212	271	236	53	64	278	A
57	119	118	303	216	270	239	59	64	276	A
58	109	122	304	218	269	241	64	64	276	A
59	99	127	304	221	269	246	66	63	276	A
60	89	134	303	225	268	252	69	62	276	A
61	79	141	303	224	266	254	74	60	276	A
62	69	142	305	217	265	246	80	60	276	A

NWSY0908 ADCP 8552

Harmonic constants for constituent S2 for deployment NWSY0908.

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	679	74	288	39	257	82	18	26	281	A
02	669	74	288	40	258	82	18	26	282	A
03	659	74	288	40	257	83	19	26	282	A
04	649	73	288	40	258	82	18	27	282	A
05	639	73	289	40	259	81	18	27	282	A
06	629	73	289	40	260	81	17	27	283	A
07	619	73	289	39	261	81	16	27	283	A
08	609	73	289	40	263	81	16	27	283	A
09	599	72	290	40	264	81	16	28	284	A
10	589	72	290	41	264	81	16	28	284	A
11	579	71	291	41	265	80	15	29	285	A
12	569	70	290	41	267	80	14	29	284	A
13	559	70	290	41	267	80	14	30	285	A
14	549	68	291	42	270	79	13	31	286	A
15	539	67	292	42	273	78	11	32	286	A
16	529	65	292	42	275	77	10	32	287	A
17	519	64	291	42	278	76	8	33	287	A
18	509	62	292	41	277	74	9	33	288	A
19	499	61	291	40	278	73	7	33	287	A
20	489	59	289	40	279	71	6	34	286	A
21	479	58	288	40	280	70	5	34	286	A
22	469	57	286	38	282	68	3	34	285	A
23	459	56	287	38	283	67	2	34	286	A
24	449	56	285	37	283	67	1	34	284	A
25	439	54	285	36	285	65	0	34	285	C
26	429	51	285	36	289	62	2	35	286	C
27	419	48	285	37	293	60	4	38	288	C
28	409	45	288	40	298	60	5	42	292	C
29	399	43	290	43	301	60	6	45	296	C
30	389	42	292	45	302	61	5	47	297	C
31	379	39	292	46	303	60	6	49	299	C
32	369	38	292	48	304	61	6	52	300	C
33	359	39	288	52	306	64	10	53	299	C
34	349	39	285	52	307	64	12	54	299	C
35	339	37	280	51	309	62	15	55	300	C
36	329	36	279	52	312	61	17	56	301	C
37	319	35	279	54	315	61	18	60	305	C
38	309	33	280	55	317	62	18	62	308	C
39	299	31	285	57	318	64	15	64	311	C
40	289	30	289	57	317	63	13	64	312	C
41	279	30	296	55	318	62	10	62	313	C
42	269	30	299	54	317	61	8	62	313	C
43	259	31	300	52	315	60	7	60	311	C
44	249	32	299	52	314	61	7	59	310	C
45	239	34	302	52	313	62	5	57	310	C
46	229	35	302	53	312	63	6	57	309	C
47	219	36	303	55	313	65	5	57	310	C
48	209	36	304	54	314	65	5	57	311	C
49	199	36	309	57	316	67	3	58	314	C
50	189	36	313	57	316	67	1	58	315	C
51	179	37	316	57	316	68	0	57	316	C
52	169	40	319	61	318	73	1	57	318	A
53	159	42	324	63	317	75	4	56	319	A
54	149	43	330	66	319	78	7	57	322	A
55	139	45	331	69	319	82	8	57	323	A
56	129	44	334	72	321	84	9	59	324	A
57	119	48	340	74	320	87	14	58	326	A
58	109	48	339	73	319	86	14	57	325	A
59	99	45	342	70	319	82	16	58	325	A
60	89	43	342	69	315	80	17	60	322	A
61	79	47	337	77	313	89	16	60	319	A
62	69	42	344	73	311	82	20	63	318	A

NWSY0908 ADCP 8552

Harmonic constants for constituent N2 for deployment NWSY0908.

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	679	46	222	18	179	48	12	17	218	A
02	669	45	222	18	179	47	12	17	218	A
03	659	46	221	18	180	48	11	17	217	A
04	649	46	222	17	182	48	10	17	218	A
05	639	46	222	17	179	48	11	16	218	A
06	629	45	221	18	178	47	12	17	217	A
07	619	46	221	18	178	48	11	17	217	A
08	609	47	221	18	180	49	12	17	217	A
09	599	47	220	19	178	49	12	18	216	A
10	589	47	221	20	179	49	13	18	216	A
11	579	47	223	20	179	50	13	18	218	A
12	569	47	222	20	176	50	14	18	217	A
13	559	48	222	21	177	51	14	18	217	A
14	549	48	221	19	177	50	13	17	217	A
15	539	47	220	19	182	50	11	18	216	A
16	529	45	219	18	182	47	10	18	215	A
17	519	43	218	16	185	45	8	18	215	A
18	509	41	218	15	189	43	7	18	215	A
19	499	39	217	15	194	41	5	20	214	A
20	489	37	215	14	198	39	4	21	213	A
21	479	36	217	15	204	39	3	23	215	A
22	469	34	216	16	216	38	0	26	216	A
23	459	32	218	16	224	36	1	26	219	C
24	449	31	221	16	231	35	3	27	223	C
25	439	28	221	17	234	33	3	32	225	C
26	429	26	224	19	244	32	5	36	231	C
27	419	24	228	21	243	32	4	42	235	C
28	409	21	230	24	245	32	4	48	238	C
29	399	19	239	26	250	32	3	54	246	C
30	389	17	248	27	252	32	1	58	251	C
31	379	17	252	29	252	34	0	60	252	A
32	369	19	257	30	252	35	1	59	253	A
33	359	20	259	32	250	37	3	58	253	A
34	349	23	258	32	250	39	3	55	253	A
35	339	23	258	34	248	41	3	57	251	A
36	329	22	258	34	247	40	3	56	251	A
37	319	22	258	33	248	39	3	57	251	A
38	309	21	258	33	247	39	3	58	250	A
39	299	21	260	33	247	39	4	58	250	A
40	289	20	259	33	246	38	4	59	250	A
41	279	21	263	33	248	39	5	57	253	A
42	269	22	268	34	250	40	5	58	255	A
43	259	22	273	36	251	42	7	59	257	A
44	249	22	274	38	253	43	7	61	258	A
45	239	22	279	39	253	44	8	62	258	A
46	229	22	282	40	250	44	10	63	257	A
47	219	23	280	41	250	46	10	63	257	A
48	209	24	282	42	251	47	11	62	259	A
49	199	26	284	43	252	48	12	61	260	A
50	189	26	288	44	249	49	15	62	258	A
51	179	26	289	44	250	49	15	62	259	A
52	169	26	293	44	253	49	15	63	262	A
53	159	23	294	44	253	48	14	67	260	A
54	149	18	291	43	253	45	11	70	258	A
55	139	18	287	42	249	44	10	70	254	A
56	129	16	273	43	245	45	7	71	248	A
57	119	18	264	42	240	45	7	68	244	A
58	109	17	264	40	241	43	6	68	244	A
59	99	22	262	45	241	50	7	65	245	A
60	89	25	271	45	238	50	12	63	245	A
61	79	29	270	42	237	50	13	57	247	A
62	69	35	269	40	239	52	14	49	252	A

NWSY0908 ADCP 8552

Harmonic constants for constituent O1 for deployment NWSY0908.

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	679	15	348	10	38	17	7	30	2	C
02	669	14	349	10	40	16	7	30	3	C
03	659	15	348	11	36	17	7	31	2	C
04	649	15	351	11	38	17	7	34	6	C
05	639	15	346	11	36	17	7	33	2	C
06	629	15	347	11	34	17	7	31	1	C
07	619	15	346	11	34	17	7	32	0	C
08	609	16	345	11	36	18	8	31	360	C
09	599	15	345	11	37	17	8	32	1	C
10	589	15	347	11	38	17	7	31	2	C
11	579	16	346	11	35	18	7	29	359	C
12	569	16	346	11	36	18	7	31	0	C
13	559	16	348	12	34	18	7	33	3	C
14	549	15	348	11	35	17	7	34	3	C
15	539	14	347	11	40	16	8	35	5	C
16	529	16	344	10	36	17	7	28	357	C
17	519	15	345	10	40	17	8	27	358	C
18	509	16	343	11	42	17	8	27	357	C
19	499	15	341	11	40	17	8	26	355	C
20	489	15	342	9	35	16	6	23	352	C
21	479	15	342	8	38	16	7	22	351	C
22	469	15	341	8	45	15	7	18	349	C
23	459	15	341	9	49	16	8	17	350	C
24	449	16	346	9	52	16	8	17	354	C
25	439	15	349	9	49	16	7	21	359	C
26	429	15	347	9	51	15	8	20	357	C
27	419	15	349	9	51	15	7	20	359	C
28	409	15	349	9	53	15	8	19	359	C
29	399	15	346	9	58	15	9	17	356	C
30	389	15	344	9	56	15	8	14	352	C
31	379	15	344	8	55	16	8	13	350	C
32	369	15	345	7	58	15	7	11	350	C
33	359	17	346	6	46	17	5	12	350	C
34	349	16	348	6	23	16	3	17	352	C
35	339	13	350	8	18	15	3	30	357	C
36	329	13	350	9	18	16	3	32	358	C
37	319	13	349	9	15	16	3	34	357	C
38	309	13	345	8	22	14	4	28	354	C
39	299	13	338	8	33	14	6	24	349	C
40	289	13	335	8	38	14	7	21	346	C
41	279	13	338	9	45	14	8	23	351	C
42	269	14	336	9	46	14	8	20	348	C
43	259	14	336	9	41	15	8	21	347	C
44	249	14	336	9	40	15	8	23	349	C
45	239	14	341	8	40	15	7	21	350	C
46	229	15	346	7	40	16	6	19	353	C
47	219	14	348	7	36	15	5	22	356	C
48	209	15	352	7	29	16	4	23	358	C
49	199	14	358	8	32	16	4	28	6	C
50	189	12	358	11	31	16	5	42	13	C
51	179	10	3	13	41	15	5	55	28	C
52	169	5	30	14	46	15	1	71	44	C
53	159	7	32	16	33	18	0	67	33	C
54	149	6	77	16	39	16	3	73	42	A
55	139	6	66	19	30	20	4	74	33	A
56	129	6	91	21	40	22	5	79	42	A
57	119	9	104	24	33	24	8	82	36	A
58	109	8	101	23	24	23	8	85	25	A
59	99	6	122	23	29	23	5	91	29	A
60	89	7	150	26	35	26	6	97	33	A
61	79	5	137	26	38	26	5	92	37	A
62	69	6	125	25	31	25	6	91	31	A

NWSY0908 ADCP 8552

Harmonic constants for constituent K1 for deployment NWSY0908.

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	679	11	192	4	257	11	4	10	195	C
02	669	11	192	4	261	11	4	10	196	C
03	659	11	191	5	259	11	4	11	195	C
04	649	11	191	5	265	11	4	7	194	C
05	639	10	194	5	273	10	5	8	198	C
06	629	10	192	5	266	10	5	10	197	C
07	619	10	193	5	268	10	5	10	198	C
08	609	9	185	5	272	9	5	2	186	C
09	599	9	188	5	270	9	5	8	193	C
10	589	9	191	5	263	9	5	15	199	C
11	579	8	191	5	259	8	4	16	199	C
12	569	9	190	4	260	9	3	10	193	C
13	559	9	193	4	240	9	3	19	199	C
14	549	9	195	4	245	9	3	20	202	C
15	539	9	200	5	229	10	2	25	205	C
16	529	8	206	5	244	9	3	28	215	C
17	519	9	202	7	236	10	3	35	214	C
18	509	8	203	6	239	9	3	37	216	C
19	499	7	204	6	247	8	3	36	220	C
20	489	6	200	6	251	8	4	49	229	C
21	479	6	193	6	257	7	5	51	231	C
22	469	6	192	6	269	6	5	48	233	C
23	459	4	194	5	283	5	4	88	281	C
24	449	5	191	5	304	6	4	138	340	C
25	439	5	192	4	300	6	4	155	355	C
26	429	6	190	4	288	6	4	170	3	C
27	419	8	195	4	266	8	4	15	203	C
28	409	9	189	4	257	9	4	11	193	C
29	399	9	187	5	218	10	2	25	193	C
30	389	8	182	7	202	10	2	38	190	C
31	379	7	163	8	192	11	3	47	178	C
32	369	6	144	10	190	12	4	63	179	C
33	359	7	123	13	189	14	6	75	182	C
34	349	8	101	17	193	17	8	92	194	C
35	339	10	82	18	192	18	9	104	200	C
36	329	12	71	19	198	21	9	116	209	C
37	319	13	63	20	200	22	8	119	211	C
38	309	13	56	21	196	23	7	118	205	C
39	299	10	50	20	191	22	6	113	197	C
40	289	6	53	19	191	20	4	104	194	C
41	279	5	66	18	190	18	4	99	192	C
42	269	2	98	15	189	15	2	90	189	C
43	259	2	146	12	195	12	2	83	194	C
44	249	4	186	11	201	11	1	70	199	C
45	239	6	180	9	208	10	2	57	200	C
46	229	8	190	8	220	10	3	45	205	C
47	219	9	195	9	242	12	5	44	217	C
48	209	9	199	9	255	11	6	41	224	C
49	199	10	215	11	266	14	7	49	244	C
50	189	12	231	14	274	18	7	51	257	C
51	179	14	236	18	273	22	7	52	259	C
52	169	21	246	23	273	30	7	47	260	C
53	159	24	245	25	274	34	9	46	260	C
54	149	29	252	32	269	43	6	49	261	C
55	139	33	249	38	267	50	8	49	259	C
56	129	38	250	46	263	59	7	51	258	C
57	119	44	250	52	262	68	7	50	257	C
58	109	47	250	56	263	73	8	50	258	C
59	99	44	256	56	264	71	5	51	261	C
60	89	52	261	58	270	77	6	48	266	C
61	79	49	257	64	266	80	6	53	262	C
62	69	52	254	62	267	80	9	50	261	C



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