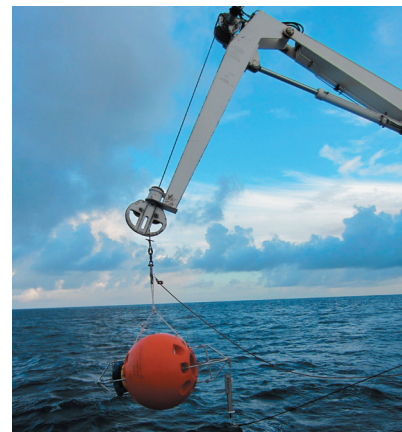


THOR ADCP Deployments in Faroese Waters 2010 - 2011

Tórshavn · January 2012



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Contents

Introduction.....	3
Quality control and calibration	4
Report format	4
NWFB1006.....	6
NWFC1006.....	15
NWNA1006	22
NWNB1006	29
NWNE1006	36
NWNG1006.....	43
NWSC1006	53
NWSX1006	63
NWSY1006.....	74

Introduction

This report documents nine ADCP deployments in Faroese waters in 2010 – 2011. 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.

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 (14 – 61) of depth layers ("bins") which were 25 m for all rigs except for the deployments NWNA, NWSX 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 NWSX and NWSY, each ensemble is based only upon one ping. In deployment NWSX and 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.

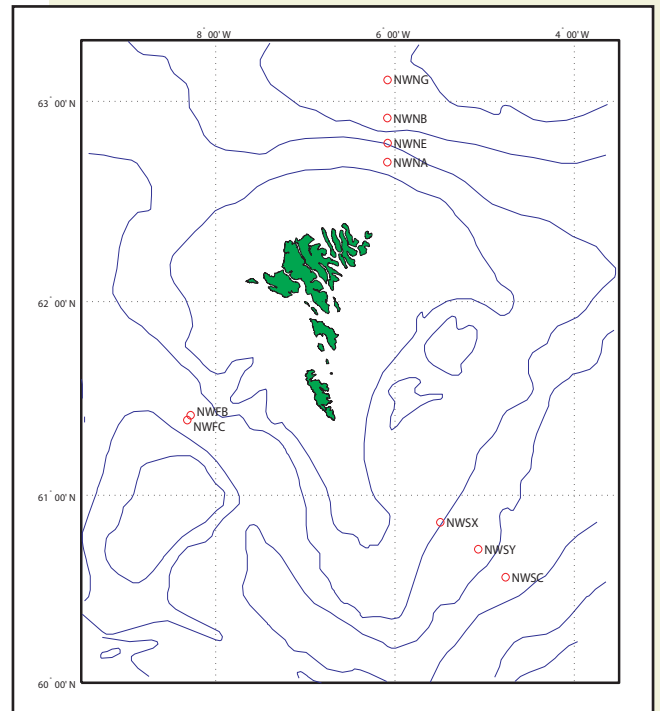


Figure 1. ADCP mooring sites in Faroese waters 2010-2011 superposed on a map with the bottom topography. Each site is indicated by a four-letter label.

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 depth	Int. min.	Valid data period	Dur. days	No bins	Depth range	Comments
NWFB1006	814	20	2010 06 05-2011 05 23	351	16	398- 773	Microcat
NWFC1006	839	20	2010 06 05-2011 05 23	351	23	248- 798	
NWNA1006	298	20	2010 06 04-2011 05 20	350	24	51- 281	
NWNB1006	961	20	2010 06 04-2011 05 20	350	23	122- 672	
NWNE1006	456	20	2010 06 04-2011 05 20	350	14	99- 424	
NWNG1006	1796	20	2010 06 04-2011 05 20	350	22	68- 593	Aanderaa
NWSC1006	1066	20	2010 06 05-2011 05 21	350	20	137- 612	Aanderaa
NWSX1006	549	20	2010 06 04-2011 05 21	350	48	60- 530	Microcat
NWSY1006	908	20	2010 06 05-2011 05 21	350	61	77- 677	

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, NWNA, NWSX, and NWSY. The instrument depth at site NWFC and NWNA 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 salinity data from the MiroCats are not calibrated and must be treated with caution.

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.

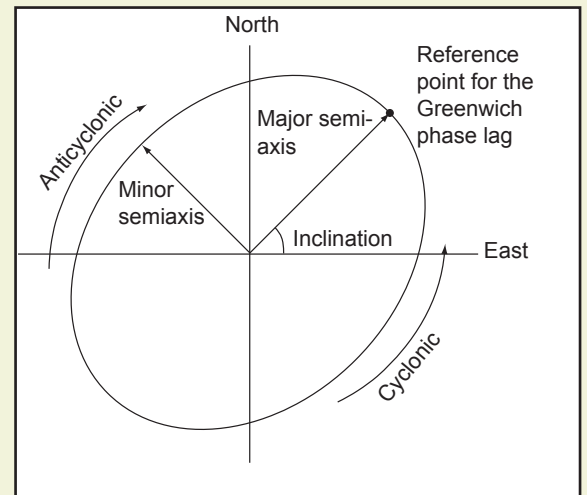


Figure 2. Parameters of the tidal ellipse for a given constituent. The reference point for the Greenwich phase lag is always chosen to be above the east-west axis.

NWFB1006

Latitude: 61°25.000'N
Longitude: 008°17.000'W
Echo sounding depth: 825 m
Bottom depth corr.: 814 m
Time of deployment: 5/6 - 2010 1223 UTC
Time of recovery: 23/5 - 2011 0425 UTC

ADCP:

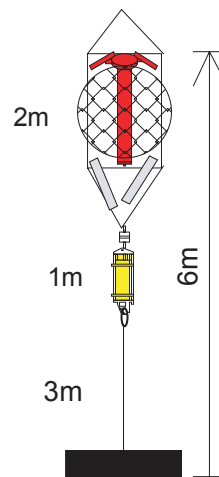
Instrument no.: RDI ADCP 1642
Instrument frequency: 75 kHz
Height above bottom: 6 m
Depth: 808 m (corr.)
Time of first data: 5/6 - 2010 1240 UTC
Time of last data: 23/05 - 2011 0400 UTC
Sample interval: 20 min
No. of ensembles: 25319
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 773 m (corr.)
No. of bins: 16

Micro Cat:

Instrument no.: 1993
Height above bottom: 5 m
Time of first data: 5/6 - 2010 1240 UTC
Time of last data: 23/5 - 2011 0420 UTC
Sample interval: 10 min
No. of ensembles: 50639
Instrument depth: 809 m

Data:

The ADCP data for the uppermost bins were affected by some instrumental malfunction.
The temperature measurements from the ADCP could not be used.
The salinity from the MicroCat is uncalibrated and may have a drift.



NWFB1006 ADCP 1642

Error statistics for deployment: NWFB1006 updated 2012/01/09

Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature data invalid due to instrument failure
 Velocity edited up to and including bin 16 by TP in Jan 2012
 Intensity edited up to and including bin 16 by EVM in Sep 2011

Total number of ensembles: 25319
 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: 25319

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

Bin	Int. ens. flgd	Velocity ens. flgd	%	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	1	283	1	181	28	8	3	2	0	0	0	0	0	
2	1	291	1	144	51	9	3	0	1	0	0	0	0	
3	0	360	1	151	62	13	4	2	1	1	0	0	0	
4	0	436	2	169	64	21	4	1	5	2	0	0	0	
5	0	506	2	202	77	18	9	3	2	2	0	0	0	
6	0	503	2	189	85	17	6	3	4	2	0	0	0	
7	0	796	3	273	127	33	13	7	6	3	0	0	0	
8	0	892	4	294	121	43	15	10	13	2	0	0	0	
9	0	1217	5	463	139	61	18	8	18	5	0	0	0	
10	0	1335	5	517	148	69	32	14	14	2	0	0	0	
11	0	1427	6	538	161	54	35	16	21	0	0	1	0	
12	0	1391	5	423	138	74	26	19	24	5	0	1	0	
13	0	1188	5	391	123	56	19	13	22	5	0	0	0	
14	0	1464	6	380	118	67	29	14	31	10	4	0	0	
15	0	1513	6	317	108	55	20	16	33	12	6	2	0	
16	0	2872	11	452	187	81	36	22	59	36	9	10	0	

NWFB1006 ADCP 1642

Deployment: NWFB1006 updated 2012/01/09
Instrument no.: 1642
Instrument freq.: 75
Latitude: 61 25.000 N
Longitude: 08 17.000 W
Bottom depth: 814
Instrument depth: 808
Center depth of first bin: 773
Bin length: 25
Number of bins: 16
Number of first ensemble: 303
Time of first ensemble: 2010 06 05 12 40
Number of last ensemble: 25621
Time of last ensemble: 2011 05 23 04 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	773	41	983	976	304	989
2	748	66	1059	1054	307	989
3	723	91	1089	1084	309	986
4	698	116	1094	1090	310	983
5	673	141	1088	1083	311	980
6	648	166	1066	1061	312	980
7	623	191	1015	1007	313	969
8	598	216	919	906	315	965
9	573	241	775	752	318	952
10	548	266	602	563	320	947
11	523	291	445	382	323	944
12	498	316	334	245	325	945
13	473	341	274	160	327	953
14	448	366	243	110	328	942
15	423	391	232	82	330	940
16	398	416	229	63	332	887

NWFB1006 ADCP 1642

Deployment: NWFB1006

Frequency of high speeds.

=====

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

```

=====
Bin|Depth|
no.|  m|      Speed (cm/s)
-----|-----|-----
10  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160  170  180
-----|-----|-----
1| 773| 989 989 989 988 985 974 936 859 717 482 227  72  17  4  1  0  0  0
2| 748| 989 989 989 989 986 980 958 910 833 683 439 181  46 10  2  0  0  0
3| 723| 986 986 986 986 984 978 958 917 855 739 533 257  69 14  2  0  0  0
4| 698| 983 983 983 983 981 975 954 915 855 746 549 270  74 14  3  0  0  0
5| 673| 980 980 980 980 978 969 946 906 842 730 533 264  71 13  2  0  0  0
6| 648| 980 980 979 978 973 960 930 878 807 688 492 242  63 12  2  0  0  0
7| 623| 968 966 963 954 942 919 872 810 727 591 390 188  48  9  1  0  0  0
8| 598| 961 950 934 917 889 846 783 693 582 431 259 109  26  5  1  0  0  0
9| 573| 941 914 875 829 768 698 607 495 374 238 119  40  9  2  0  0  0  0
10| 548| 918 851 768 682 591 488 373 263 169  87  34  9  2  0  0  0  0  0
11| 523| 889 763 615 480 359 254 172 105  57  26  8  2  0  0  0  0  0  0
12| 498| 853 650 454 298 190 118  65  36  19  7  2  1  0  0  0  0  0  0
13| 473| 828 574 347 190  99  50  25  14  7  3  1  0  0  0  0  0  0  0
14| 448| 801 519 279 126  55  25  11  6  2  1  0  0  0  0  0  0  0  0
15| 423| 790 496 253 108  41  15  6  3  1  0  0  0  0  0  0  0  0  0
16| 398| 741 464 239  98  34  11  4  1  1  0  0  0  0  0  0  0  0  0
    
```

NWFB1006 ADCP 1642

Harmonic constants for constituent M2 for deployment NWFB1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	773	30	59	19	336	30	19	7	54	A
02	748	35	61	19	329	35	19	178	242	A
03	723	34	67	17	323	34	16	171	252	A
04	698	32	77	15	318	33	12	165	263	A
05	673	30	84	14	308	32	9	160	270	A
06	648	24	99	16	282	29	1	147	280	A
07	623	22	129	23	264	29	12	135	286	C
08	598	26	152	25	256	28	22	137	296	C
09	573	29	180	28	240	35	21	43	208	C
10	548	37	212	34	216	51	2	42	214	C
11	523	49	239	54	188	66	31	50	210	A
12	498	63	252	78	177	82	58	65	196	A
13	473	69	258	94	175	95	68	80	183	A
14	448	72	263	101	176	101	72	86	179	A
15	423	75	269	106	178	106	75	92	176	A
16	398	76	273	108	179	108	76	95	176	A

Harmonic constants for constituent S2 for deployment NWFB1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	773	13	89	11	17	14	10	31	67	A
02	748	15	97	10	16	15	10	11	89	A
03	723	15	102	10	15	15	10	3	100	A
04	698	13	106	8	7	13	8	171	292	A
05	673	8	118	7	341	10	4	143	314	A
06	648	7	161	5	310	8	2	144	330	C
07	623	13	193	4	271	13	4	4	194	C
08	598	18	201	5	281	18	5	3	202	C
09	573	20	227	7	275	20	5	13	230	C
10	548	20	260	11	214	22	7	22	252	A
11	523	25	283	23	206	27	21	36	254	A
12	498	29	296	33	208	33	29	83	214	A
13	473	31	294	40	211	41	30	78	220	A
14	448	29	290	40	210	40	28	75	220	A
15	423	26	294	40	212	41	25	83	216	A
16	398	26	299	41	215	41	26	84	219	A

NWFB1006 ADCP 1642

Harmonic constants for constituent N2 for deployment NWFB1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	773	9	28	6	291	9	6	172	212	A
02	748	9	34	6	289	9	5	167	222	A
03	723	9	39	5	290	10	5	166	226	A
04	698	9	41	5	297	10	5	170	227	A
05	673	10	49	5	296	10	4	165	236	A
06	648	10	68	3	287	11	2	165	251	A
07	623	14	85	2	265	14	0	170	265	C
08	598	15	96	4	248	16	2	166	274	C
09	573	13	129	3	221	13	3	180	309	C
10	548	12	168	6	164	14	0	27	167	A
11	523	14	185	12	139	17	7	37	167	A
12	498	13	191	13	138	17	8	44	166	A
13	473	10	219	16	149	17	10	71	159	A
14	448	12	249	17	154	17	12	96	150	A
15	423	14	262	18	161	19	13	106	150	A
16	398	14	268	20	165	21	14	106	155	A

Harmonic constants for constituent O1 for deployment NWFB1006.

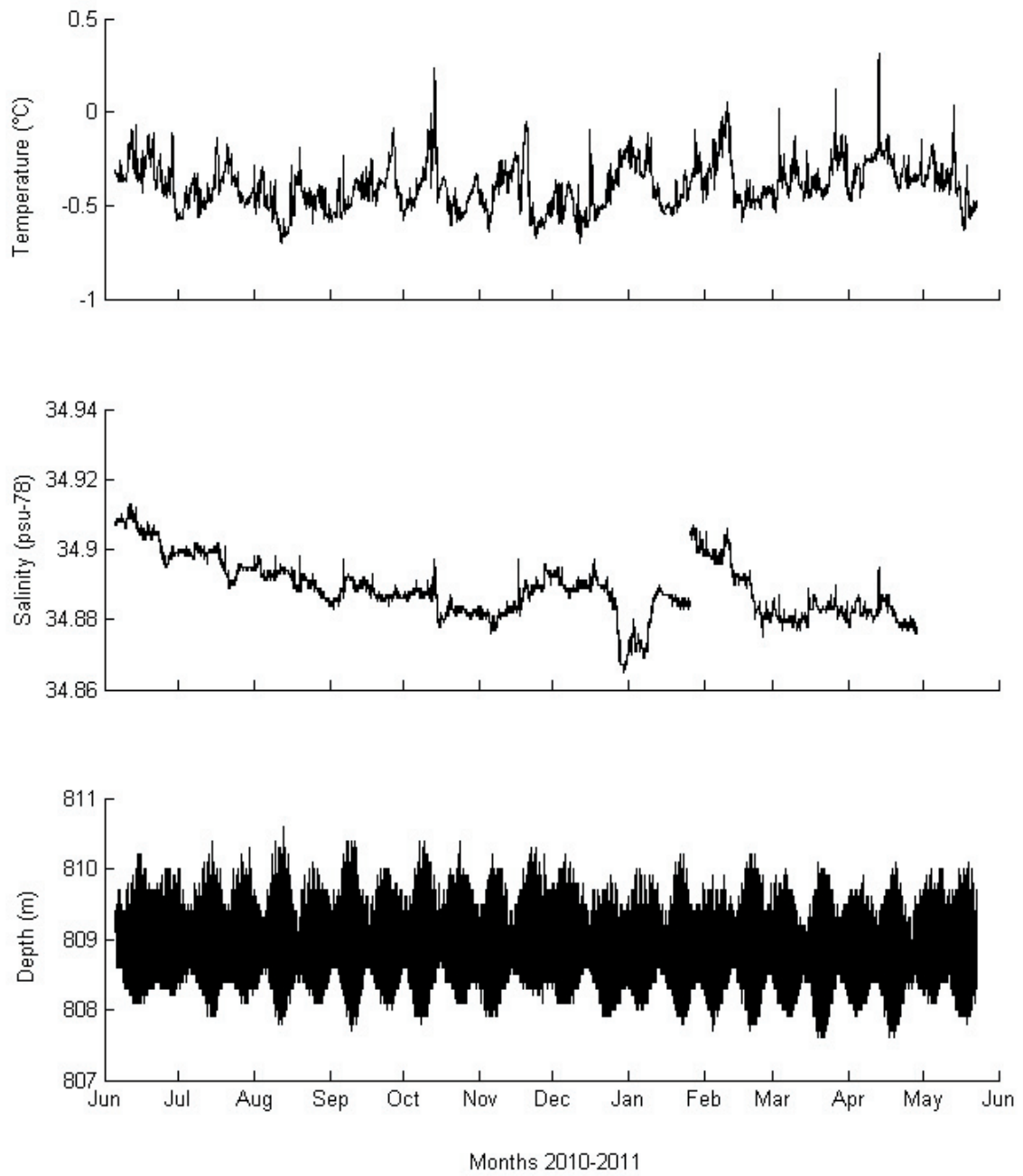
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	773	16	325	8	168	18	3	155	150	A
02	748	19	327	7	162	20	2	159	149	A
03	723	19	323	9	156	21	2	156	146	A
04	698	19	326	10	152	21	1	152	147	A
05	673	19	326	11	153	22	1	151	148	A
06	648	23	332	11	155	26	0	154	153	A
07	623	28	340	15	161	32	0	151	161	A
08	598	35	342	23	161	42	0	146	161	C
09	573	35	345	29	168	46	1	141	166	A
10	548	31	348	29	175	43	3	137	171	A
11	523	25	352	25	173	36	1	135	173	A
12	498	19	358	22	180	30	1	131	179	A
13	473	14	5	20	187	24	0	124	186	A
14	448	13	10	19	188	23	1	124	188	C
15	423	16	22	19	198	25	1	130	200	C
16	398	18	17	21	204	27	2	130	201	A

NWFB1006 ADCP 1642

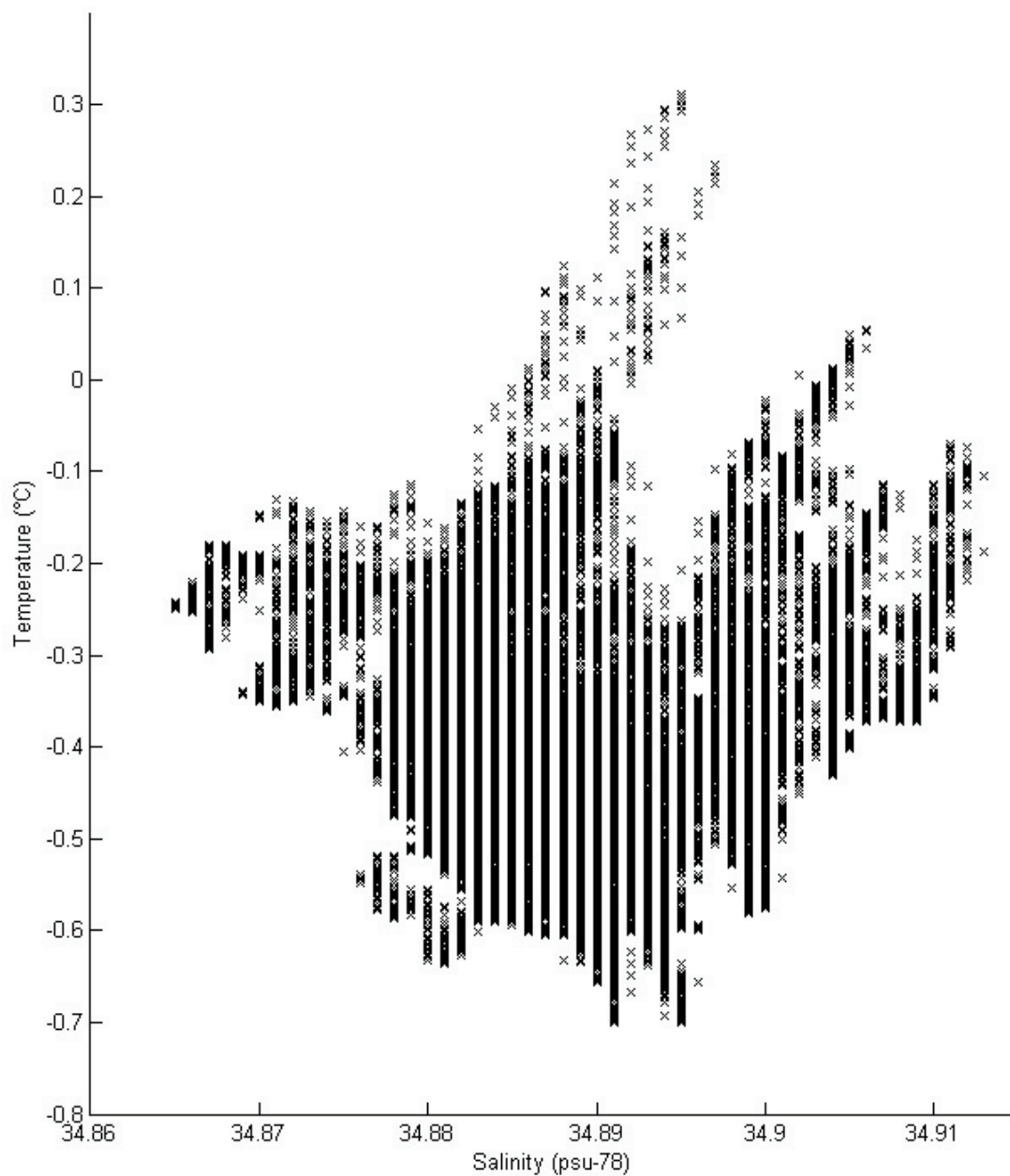
Harmonic constants for constituent K1 for deployment NWFB1006.

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	773	18	230	8	65	20	2	156	53	A
02	748	20	228	10	60	22	2	155	50	A
03	723	20	226	11	62	23	3	152	50	A
04	698	20	230	13	61	23	2	147	53	A
05	673	21	229	14	62	25	3	147	53	A
06	648	22	234	15	63	27	2	146	57	A
07	623	27	240	18	63	32	1	146	61	A
08	598	29	244	23	67	37	1	142	66	A
09	573	31	246	27	66	41	0	138	66	A
10	548	29	248	30	67	42	0	134	68	C
11	523	23	249	26	67	35	1	132	68	C
12	498	19	256	26	69	32	2	127	72	C
13	473	13	262	28	70	31	2	114	72	C
14	448	9	274	23	65	24	4	109	68	C
15	423	8	290	21	63	22	6	105	67	C
16	398	8	286	20	64	21	5	107	68	C

NWFB1006 MicroCat 1993



NWFB1006 MicroCat 1993



NWFC1006

Latitude: 61°23.570'N

Longitude: 008°19.000'W

Echo sounding depth: 848 m

Bottom depth corr.: 839 m

Time of deployment: 5/6 - 2010 1206 UTC

Time of recovery: 23/5 - 2011 0348 UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75 kHz

Height above bottom: 6 m

Depth: 833 m (corr.)

Time of first data: 5/6 - 2010 1240 UTC

Time of last data: 23/5 - 2011 0320 UTC

Sample interval: 20 min

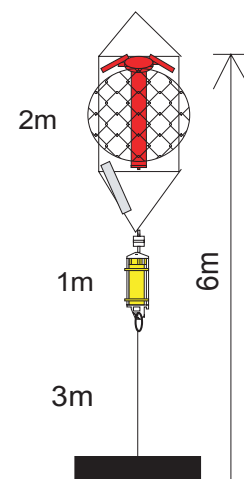
No. of ensembles: 25317

Pings per ens.: 1

Binlength: 25 m

Depth of first bin: 798 m (corr.)

No. of bins: 23



Data:

All data ok.

NWFC1006 ADCP 1285

Error statistics for deployment: NWFC1006 updated 2012/01/09

 Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by EVM in Oct 2011
 Velocity edited up to and including bin 23 by AKL in Jan 2012
 Intensity edited up to and including bin 23 by EVM in Sep 2011

Total number of ensembles: 25317
 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. Velocity			Number of velocity gaps of length										
	ens. flgd	ens. flgd	% flgd	1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	737	3	574	40	11	6	4	1	0	0	0	0	
2	0	319	1	275	14	4	1	0	0	0	0	0	0	
3	0	322	1	266	14	4	4	0	0	0	0	0	0	
4	0	565	2	386	48	13	9	0	1	0	0	0	0	
5	0	1269	5	692	143	54	18	7	3	0	0	0	0	
6	0	1842	7	948	197	65	32	11	14	2	0	0	0	
7	0	2503	10	1442	283	82	30	9	13	0	0	0	0	
8	0	2895	11	1556	338	99	38	17	13	2	0	0	0	
9	0	2535	10	1399	307	76	29	12	16	1	0	0	0	
10	0	1698	7	1056	166	52	17	4	5	0	1	0	0	
11	0	1252	5	766	118	39	10	6	4	1	1	0	0	
12	0	690	3	428	74	24	6	2	1	0	0	0	0	
13	0	453	2	352	28	6	5	0	1	0	0	0	0	
14	0	341	1	273	13	7	3	0	1	0	0	0	0	
15	0	245	1	201	8	2	0	1	2	0	0	0	0	
16	0	282	1	223	14	4	1	0	2	0	0	0	0	
17	0	313	1	204	13	5	4	1	3	0	1	0	0	
18	0	472	2	240	25	16	2	1	8	1	2	0	0	
19	0	1588	6	386	87	40	31	30	32	14	6	1	0	
20	0	3142	12	503	109	67	50	30	54	46	17	7	1	
21	0	4562	18	474	101	62	44	24	77	53	42	16	6	
22	0	7773	31	754	155	87	63	40	97	67	42	33	25	
23	0	11818	47	739	208	120	73	43	118	84	51	53	29	

NWFC1006 ADCP 1285

Deployment: NWFC1006 updated 2012/01/09
 Instrument no.: 1285
 Instrument freq.: 75
 Latitude: 61 23.570 N
 Longitude: 08 19.000 W
 Bottom depth: 839
 Instrument depth: 833
 Center depth of first bin: 798
 Bin length: 25
 Number of bins: 23
 Number of first ensemble: 303
 Time of first ensemble: 2010 06 05 12 40
 Number of last ensemble: 25619
 Time of last ensemble: 2011 05 23 03 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	798	41	1047	1042	305	971
2	773	66	1115	1111	307	987
3	748	91	1133	1129	310	987
4	723	116	1125	1120	311	978
5	698	141	1095	1090	312	950
6	673	166	1019	1011	312	927
7	648	191	854	834	314	901
8	623	216	657	609	318	886
9	598	241	470	376	323	900
10	573	266	333	190	331	933
11	548	291	255	74	359	951
12	523	316	223	43	49	973
13	498	341	208	52	89	982
14	473	366	203	66	104	987
15	448	391	201	76	112	990
16	423	416	203	82	116	989
17	398	441	205	87	118	988
18	373	466	207	91	120	981
19	348	491	208	92	121	937
20	323	516	210	93	123	876
21	298	541	212	94	124	820
22	273	566	213	95	124	693
23	248	591	214	98	124	533

NWFC1006 ADCP 1285

Frequency of high speeds.

=====

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

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Bin	Depth	Speed (cm/s)																	
		no.	m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
1	798	971	969	967	963	954	945	923	871	776	620	411	210	78	22	5	1	0	0
2	773	987	986	983	980	973	964	953	924	866	762	594	358	147	39	7	1	0	0
3	748	987	986	983	980	973	965	954	928	878	788	638	409	173	47	8	1	0	0
4	723	977	976	973	970	963	953	939	910	855	763	615	396	171	45	8	1	0	0
5	698	949	947	944	937	926	910	890	849	786	689	545	353	154	43	10	1	0	0
6	673	924	915	902	887	867	840	806	749	666	560	430	273	123	38	8	1	0	0
7	648	884	850	815	783	738	685	626	549	458	357	253	152	68	21	5	1	0	0
8	623	846	762	681	616	554	485	416	341	263	189	123	66	28	10	3	1	0	0
9	598	831	681	535	432	354	288	226	164	115	79	45	21	8	3	1	0	0	0
10	573	828	599	400	270	192	135	92	60	39	22	9	3	1	0	0	0	0	0
11	548	814	531	282	144	82	49	27	14	7	3	1	0	0	0	0	0	0	0
12	523	814	491	222	90	40	18	8	4	2	0	0	0	0	0	0	0	0	0
13	498	807	460	192	66	21	7	2	1	0	0	0	0	0	0	0	0	0	0
14	473	809	451	178	55	14	3	1	0	0	0	0	0	0	0	0	0	0	0
15	448	806	450	181	55	13	3	0	0	0	0	0	0	0	0	0	0	0	0
16	423	806	446	182	61	15	3	1	0	0	0	0	0	0	0	0	0	0	0
17	398	807	452	188	66	18	4	1	0	0	0	0	0	0	0	0	0	0	0
18	373	805	454	194	69	20	5	1	0	0	0	0	0	0	0	0	0	0	0
19	348	768	432	188	67	21	5	1	0	0	0	0	0	0	0	0	0	0	0
20	323	719	409	179	67	22	5	1	0	0	0	0	0	0	0	0	0	0	0
21	298	675	388	171	66	22	5	1	0	0	0	0	0	0	0	0	0	0	0
22	273	569	327	148	59	19	5	1	0	0	0	0	0	0	0	0	0	0	0
23	248	438	253	116	50	18	5	0	0	0	0	0	0	0	0	0	0	0	0

NWFC1006 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC1006.

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	798	13	80	9	299	15	5	147	272	A
02	773	15	75	12	290	18	5	143	267	A
03	748	18	68	17	281	23	7	137	264	A
04	723	19	65	19	279	25	8	135	262	A
05	698	22	77	23	290	30	9	132	275	A
06	673	29	105	30	306	41	8	135	296	A
07	648	46	125	37	317	58	6	142	310	A
08	623	58	135	35	315	68	0	149	315	A
09	598	51	150	16	290	53	10	166	327	C
10	573	36	189	23	175	43	5	32	185	A
11	548	44	230	53	160	57	38	60	181	A
12	523	49	244	67	163	68	48	78	172	A
13	498	52	255	76	167	76	52	87	169	A
14	473	55	263	82	171	82	55	92	170	A
15	448	59	270	85	176	85	58	95	173	A
16	423	62	275	88	180	88	62	96	176	A
17	398	65	278	90	183	90	64	96	179	A
18	373	65	281	93	186	93	65	97	181	A
19	348	67	283	96	189	96	66	95	186	A
20	323	68	283	98	191	98	68	93	189	A
21	298	69	283	98	192	98	69	91	192	A
22	273	72	284	100	192	100	72	92	191	A
23	248	77	285	99	192	100	77	96	188	A

Harmonic constants for constituent S2 for deployment NWFC1006.

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	798	6	124	6	343	8	3	133	324	A
02	773	5	124	5	342	7	2	134	324	A
03	748	6	99	6	329	8	4	138	302	A
04	723	6	106	7	337	8	4	127	318	A
05	698	9	135	10	349	13	4	132	334	A
06	673	14	166	13	8	18	4	137	356	A
07	648	23	181	14	11	27	2	150	3	A
08	623	28	187	16	8	32	0	151	7	A
09	598	22	207	7	29	23	0	163	27	A
10	573	16	243	8	207	18	4	24	237	A
11	548	18	289	22	204	22	18	80	211	A
12	523	20	299	29	207	29	20	93	204	A
13	498	20	299	32	205	32	20	93	203	A
14	473	18	301	32	210	32	18	91	209	A
15	448	19	306	34	215	34	19	91	214	A
16	423	19	308	35	218	35	19	90	217	A
17	398	21	312	37	218	37	21	93	217	A
18	373	21	313	37	221	37	21	92	219	A
19	348	21	317	37	224	37	21	93	222	A
20	323	22	314	36	225	36	22	89	225	A
21	298	21	317	35	228	35	21	89	228	A
22	273	23	321	34	229	34	23	93	227	A
23	248	23	324	39	232	39	23	93	230	A

NWFC1006 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC1006.

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	798	5	51	4	237	6	0	143	233	A
02	773	5	41	3	236	6	1	152	224	A
03	748	6	34	4	229	7	1	150	218	A
04	723	7	29	4	240	8	2	148	218	A
05	698	9	47	6	254	11	3	147	235	A
06	673	14	66	9	266	16	3	149	251	A
07	648	20	88	9	278	22	2	156	269	A
08	623	18	110	7	297	19	1	161	291	A
09	598	18	119	5	295	19	0	164	299	C
10	573	13	133	2	79	13	1	4	133	A
11	548	10	177	9	97	10	8	26	156	A
12	523	10	199	13	116	13	10	76	127	A
13	498	8	211	15	131	15	8	82	135	A
14	473	7	238	17	143	17	7	93	141	A
15	448	9	248	18	151	18	9	95	149	A
16	423	10	261	19	157	19	9	100	152	A
17	398	10	268	19	159	20	9	102	153	A
18	373	11	271	19	160	20	10	106	151	A
19	348	11	271	21	164	21	10	101	159	A
20	323	11	275	21	169	21	11	101	164	A
21	298	9	275	22	173	22	9	96	171	A
22	273	10	266	22	176	22	10	90	176	A
23	248	12	265	22	179	22	12	86	181	A

Harmonic constants for constituent O1 for deployment NWFC1006.

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	798	11	345	10	160	14	1	138	163	C
02	773	10	344	10	166	14	0	136	165	A
03	748	11	342	11	160	16	0	136	161	C
04	723	11	345	14	163	18	0	130	164	C
05	698	17	349	16	176	24	1	136	172	A
06	673	27	358	25	182	37	1	137	180	A
07	648	39	1	33	187	51	3	139	183	A
08	623	41	1	36	187	54	3	138	184	A
09	598	37	5	34	186	50	1	137	186	A
10	573	28	10	29	192	40	1	134	191	A
11	548	20	20	24	201	31	0	130	200	A
12	523	18	19	19	207	26	2	133	203	A
13	498	16	19	17	201	24	1	134	200	A
14	473	16	23	16	201	23	0	136	202	C
15	448	16	27	15	202	22	1	135	205	C
16	423	16	28	14	205	21	1	139	207	C
17	398	16	27	14	205	21	0	138	206	C
18	373	16	27	15	205	22	0	137	206	C
19	348	14	19	13	199	20	0	137	199	C
20	323	13	18	12	200	18	0	137	199	A
21	298	11	12	10	183	15	1	138	188	C
22	273	10	4	7	180	12	0	142	182	C
23	248	11	22	6	193	13	1	153	200	C

NWFC1006 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC1006.

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	798	15	238	13	68	19	2	140	62	A
02	773	14	239	12	70	19	2	141	64	A
03	748	14	238	14	72	20	2	136	65	A
04	723	13	246	14	67	19	0	133	67	A
05	698	16	256	16	75	22	0	135	76	C
06	673	25	256	23	75	34	0	137	76	C
07	648	35	255	31	74	47	0	139	75	C
08	623	38	250	36	69	52	0	137	69	C
09	598	30	249	34	70	46	1	132	70	A
10	573	22	258	28	74	36	1	128	75	C
11	548	17	268	23	77	29	3	127	81	C
12	523	16	270	23	76	27	3	124	81	C
13	498	13	273	23	79	26	3	120	82	C
14	473	12	279	24	82	26	3	117	85	C
15	448	11	284	23	80	26	4	114	84	C
16	423	10	282	24	78	26	4	113	82	C
17	398	11	275	24	77	26	3	113	80	C
18	373	11	271	24	76	26	3	114	79	C
19	348	12	272	22	75	24	3	118	79	C
20	323	12	270	19	73	22	3	121	78	C
21	298	11	272	16	75	19	3	125	81	C
22	273	14	270	17	77	21	2	129	82	C
23	248	14	265	18	64	23	4	126	71	C

NWNA1006

Latitude: 62°42.080'N

Longitude: 006°04.800'W

Echo sound depth: 299 m

Bottom depth corr.: 298 m

Time of deployment: 4/6 - 2010 0131 UTC

Time of recovery: 20/5 - 2011 0335 UTC

ADCP:

Instrument no.: RDI ADCP 1279

Instrument frequency: 150 kHz

Height above bottom: 1m

Depth: 297 m (corr.)

Time of first data: 4/6 – 2010 0140 UTC

Time of last data: 20/5 – 2011 0320 UTC

Sample interval: 20 min

No. of ensembles: 25206

Pings per ens.: 1

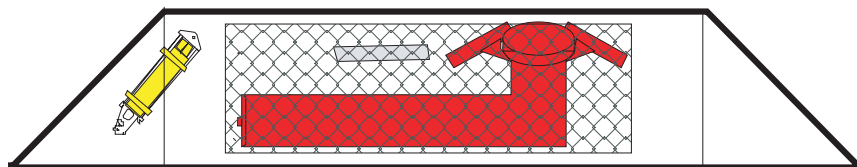
Binlength: 10 m

Depth of first bin: 281 m (corr.)

No. of bins: 24

Data:

All data ok.



NWNA1006 ADCP 1279

Error statistics for deployment: NWNA1006 updated 2011/11/30

 Surface distance invalid due to range limitation
 Heading, pitch and roll not edited
 Temperature edited by EVM in Sep 2011
 Velocity edited up to and including bin 24 by JMB in Nov 2011
 Intensity edited up to and including bin 24 by EVM in Sep 2011

Total number of ensembles: 25206
 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	% flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	1	2782	11	1852	315	64	21	2	2	0	0	0	0	
2	0	3393	13	1999	425	115	32	10	3	0	0	0	0	
3	0	3344	13	1962	379	124	37	9	8	0	0	0	0	
4	0	3197	13	1910	365	108	38	11	4	0	0	0	0	
5	0	2800	11	1797	311	73	22	10	4	0	0	0	0	
6	0	2719	11	1783	323	59	17	5	3	0	0	0	0	
7	0	2421	10	1610	260	61	14	5	4	0	0	0	0	
8	0	2093	8	1453	204	54	13	0	3	0	0	0	0	
9	0	1786	7	1239	176	42	11	5	0	0	0	0	0	
10	0	1867	7	1245	193	47	11	5	4	0	0	0	0	
11	0	1733	7	1180	176	39	14	3	2	0	0	0	0	
12	0	1571	6	1023	160	40	11	3	5	1	0	0	0	
13	0	1606	6	1034	145	48	17	5	7	0	0	0	0	
14	0	1830	7	1045	177	59	20	11	8	3	1	0	0	
15	0	2358	9	1216	232	72	25	7	12	9	4	0	0	
16	0	2292	9	1115	215	44	24	9	15	10	6	2	0	
17	0	2963	12	1253	209	81	31	17	16	15	8	8	0	
18	0	3440	14	1181	206	69	33	25	27	24	9	17	0	
19	0	4084	16	1191	278	77	31	19	37	23	15	20	2	
20	0	5822	23	1295	361	143	67	23	73	24	18	31	6	
21	0	7216	29	1384	401	185	87	44	78	36	16	43	7	
22	0	8557	34	1382	417	201	90	50	101	53	23	43	18	
23	0	10401	41	1350	389	185	112	52	129	51	23	30	38	
24	0	12786	51	1220	399	175	97	53	134	78	43	39	49	

NWNA1006 ADCP 1279

Deployment: NWNA1006 updated 2011/11/30
 Instrument no.: 1279
 Instrument freq.: 150
 Latitude: 62 42.080 N
 Longitude: 06 04.800 W
 Bottom depth: 298
 Instrument depth: 297
 Center depth of first bin: 281
 Bin length: 10
 Number of bins: 24
 Number of first ensemble: 198
 Time of first ensemble: 2010 06 04 01 40
 Number of last ensemble: 25403
 Time of last ensemble: 2011 05 20 03 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	281	17	205	132	96	890
2	271	27	218	136	99	865
3	261	37	225	134	102	867
4	251	47	230	135	104	873
5	241	57	234	138	106	889
6	231	67	237	144	106	892
7	221	77	239	148	107	904
8	211	87	242	153	107	917
9	201	97	244	158	107	929
10	191	107	247	164	107	926
11	181	117	249	168	108	931
12	171	127	251	170	107	938
13	161	137	253	173	107	936
14	151	147	256	176	107	927
15	141	157	258	179	107	906
16	131	167	259	181	107	909
17	121	177	262	183	107	882
18	111	187	264	184	107	864
19	101	197	269	187	107	838
20	91	207	272	190	107	769
21	81	217	277	193	107	714
22	71	227	281	196	108	661
23	61	237	288	200	108	587
24	51	247	292	202	108	493

NWNA1006 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|
no.|  m|  10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
-----
 1| 281| 706 401 186  70  18   2   0   0   0   0   0   0   0   0   0   0   0
 2| 271| 705 418 205  89  29   6   1   0   0   0   0   0   0   0   0   0   0
 3| 261| 722 439 220  98  35   9   1   0   0   0   0   0   0   0   0   0   0
 4| 251| 734 454 229 104  42  11   1   0   0   0   0   0   0   0   0   0   0
 5| 241| 750 470 243 115  45  13   2   0   0   0   0   0   0   0   0   0   0
 6| 231| 755 477 251 120  51  15   3   0   0   0   0   0   0   0   0   0   0
 7| 221| 765 488 262 127  54  16   2   0   0   0   0   0   0   0   0   0   0
 8| 211| 779 499 273 135  57  18   3   0   0   0   0   0   0   0   0   0   0
 9| 201| 790 513 281 140  61  20   4   1   0   0   0   0   0   0   0   0   0
10| 191| 791 515 287 146  64  20   4   1   0   0   0   0   0   0   0   0   0
11| 181| 797 523 292 151  66  21   4   1   1   0   0   0   0   0   0   0   0
12| 171| 806 530 300 154  68  22   5   1   0   0   0   0   0   0   0   0   0
13| 161| 806 538 303 159  68  24   6   2   1   0   0   0   0   0   0   0   0
14| 151| 800 539 308 161  72  25   6   2   1   0   0   0   0   0   0   0   0
15| 141| 785 530 307 162  72  24   6   2   1   0   0   0   0   0   0   0   0
16| 131| 790 536 309 167  74  26   6   2   1   0   0   0   0   0   0   0   0
17| 121| 766 523 308 165  74  27   7   2   1   0   0   0   0   0   0   0   0
18| 111| 750 515 308 167  76  26   8   2   1   0   0   0   0   0   0   0   0
19| 101| 731 509 309 169  77  30   9   3   1   0   0   0   0   0   0   0   0
20|  91| 671 475 290 163  74  28   9   3   1   0   0   0   0   0   0   0   0
21|  81| 625 448 281 156  71  28   9   3   1   1   0   0   0   0   0   0   0
22|  71| 581 419 267 149  71  28   9   3   1   1   0   0   0   0   0   0   0
23|  61| 523 381 245 138  69  28  10   3   1   1   0   0   0   0   0   0   0
24|  51| 442 328 210 120  61  25   8   2   1   0   0   0   0   0   0   0   0
  
```

NWNA1006 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA1006.

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	281	133	291	89	174	142	74	156	124	A
02	271	145	291	102	174	156	85	154	125	A
03	261	156	291	112	176	168	94	154	127	A
04	251	162	293	117	178	173	100	154	128	A
05	241	166	295	120	181	177	104	155	130	A
06	231	170	297	121	185	180	106	156	132	A
07	221	171	300	121	188	180	107	157	134	A
08	211	172	302	120	191	180	108	158	135	A
09	201	172	303	119	194	179	108	159	136	A
10	191	174	305	116	197	179	107	162	136	A
11	181	173	307	115	200	178	107	163	137	A
12	171	173	309	113	202	178	105	163	139	A
13	161	174	310	111	204	178	104	165	140	A
14	151	175	312	109	207	178	103	166	140	A
15	141	172	313	106	209	175	102	167	140	A
16	131	171	314	105	211	174	100	168	141	A
17	121	170	316	103	212	172	99	168	143	A
18	111	169	317	102	214	172	98	169	143	A
19	101	169	318	98	215	171	94	169	144	A
20	91	170	319	97	217	171	94	170	145	A
21	81	167	321	96	220	168	93	171	146	A
22	71	167	322	94	221	168	92	171	147	A
23	61	170	324	96	227	171	95	175	147	A
24	51	172	325	100	230	172	99	176	148	A

Harmonic constants for constituent S2 for deployment NWNA1006.

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	281	43	338	28	217	46	23	155	171	A
02	271	45	337	34	219	50	27	152	173	A
03	261	46	333	38	224	50	33	150	175	A
04	251	50	335	40	225	54	35	152	174	A
05	241	55	335	42	226	58	38	155	172	A
06	231	61	337	42	228	63	38	159	170	A
07	221	63	340	43	228	66	38	159	173	A
08	211	65	343	44	231	68	39	159	175	A
09	201	68	345	42	233	71	38	162	175	A
10	191	68	346	44	233	71	38	160	178	A
11	181	69	349	42	236	72	37	161	179	A
12	171	69	350	42	239	71	38	162	180	A
13	161	69	351	41	240	71	37	164	179	A
14	151	69	351	40	242	71	37	165	180	A
15	141	68	353	40	244	70	37	165	181	A
16	131	68	354	39	245	70	36	165	182	A
17	121	66	355	39	247	68	36	166	183	A
18	111	66	359	38	248	68	34	164	187	A
19	101	66	359	39	252	68	36	166	187	A
20	91	65	360	38	253	66	36	166	188	A
21	81	65	0	37	254	66	35	167	188	A
22	71	65	2	37	254	67	34	167	189	A
23	61	64	2	34	255	65	32	168	188	A
24	51	64	360	33	259	64	32	173	183	A

NWNA1006 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA1006.

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	281	21	267	16	138	24	11	146	104	A
02	271	25	266	18	141	27	13	150	101	A
03	261	27	268	19	145	30	15	152	103	A
04	251	28	269	21	150	31	17	151	106	A
05	241	30	268	21	155	32	19	156	102	A
06	231	30	270	23	158	32	20	152	109	A
07	221	32	272	23	160	34	20	157	106	A
08	211	33	274	23	163	34	21	157	109	A
09	201	34	276	24	165	36	21	157	111	A
10	191	36	279	25	169	38	22	159	112	A
11	181	38	279	23	170	39	21	164	109	A
12	171	38	280	23	173	39	21	165	108	A
13	161	38	282	23	177	39	22	167	109	A
14	151	38	282	23	180	38	22	169	109	A
15	141	38	283	24	182	38	23	169	110	A
16	131	38	286	23	184	39	23	170	112	A
17	121	38	287	23	186	39	23	170	113	A
18	111	39	286	23	185	40	22	171	111	A
19	101	37	284	23	187	37	22	173	108	A
20	91	38	285	23	185	39	22	172	110	A
21	81	38	286	24	185	38	23	169	113	A
22	71	34	284	20	190	34	20	176	106	A
23	61	32	297	19	192	33	18	167	124	A
24	51	35	310	16	200	35	15	169	134	A

Harmonic constants for constituent O1 for deployment NWNA1006.

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	281	24	38	11	310	24	11	1	38	A
02	271	26	36	12	291	27	12	172	220	A
03	261	27	41	13	291	27	12	169	226	A
04	251	27	36	12	296	27	12	175	218	A
05	241	27	31	12	287	27	11	173	214	A
06	231	26	28	13	289	26	12	175	210	A
07	221	26	27	13	287	26	13	173	211	A
08	211	27	27	14	286	27	14	172	212	A
09	201	28	29	15	285	28	14	170	214	A
10	191	28	33	15	285	29	14	168	219	A
11	181	29	34	16	284	29	15	166	221	A
12	171	29	37	17	283	30	15	162	226	A
13	161	29	36	17	284	30	16	163	225	A
14	151	29	38	18	286	30	16	161	229	A
15	141	29	38	19	284	30	16	158	231	A
16	131	30	41	20	281	32	16	155	233	A
17	121	30	39	20	280	32	16	156	231	A
18	111	33	40	20	283	34	17	159	231	A
19	101	36	39	22	280	38	18	159	229	A
20	91	36	38	20	283	38	18	163	226	A
21	81	36	35	20	284	37	18	165	223	A
22	71	36	39	21	282	38	18	161	229	A
23	61	33	31	22	276	35	19	157	224	A
24	51	34	27	20	265	36	16	158	217	A

NWNA1006 ADCP 1279

Harmonic constants for constituent K1 for deployment NWNA1006.

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	281	31	278	17	193	31	17	4	276	A
02	271	34	287	20	190	34	20	174	111	A
03	261	38	290	21	182	39	20	167	117	A
04	251	40	287	22	179	41	21	166	114	A
05	241	39	285	21	176	40	19	167	112	A
06	231	39	281	21	175	39	20	168	107	A
07	221	39	277	21	176	39	21	171	102	A
08	211	39	276	22	175	40	22	171	101	A
09	201	39	275	22	173	40	22	170	100	A
10	191	39	273	23	170	40	22	169	99	A
11	181	40	272	22	171	41	22	171	96	A
12	171	42	274	24	171	43	23	170	99	A
13	161	43	274	24	170	43	23	169	99	A
14	151	44	273	25	169	45	24	169	98	A
15	141	45	271	25	168	45	24	170	96	A
16	131	46	270	25	167	46	25	170	95	A
17	121	47	267	26	165	47	25	171	92	A
18	111	46	265	26	164	46	25	171	90	A
19	101	47	263	25	164	47	24	173	87	A
20	91	46	261	24	162	46	23	173	85	A
21	81	46	257	22	160	46	22	176	79	A
22	71	46	254	20	157	46	20	176	76	A
23	61	45	250	18	149	45	18	175	72	A
24	51	44	247	17	149	44	17	176	69	A

NWNB1006

Latitude: 62°55.060'N

Longitude: 006°05.150'W

Echo sounding depth: 977 m

Bottom depth corr.: 961 m

Time of deployment: 4/6 - 2010 0349 UTC

Time of recovery: 20/5 - 2011 0609 UTC

ADCP:

Instrument no.: RDI ADCP 1577

Instrument frequency: 75 kHz

Height above bottom: 254 m (corr.)

Depth: 707 m (corr.)

Time of first data: 4/6 - 2010 0420 UTC

Time of last data: 20/5 - 2011 0540 UTC

Sample interval: 20 min

No. of ensembles: 25205

Pings per ens.: 1

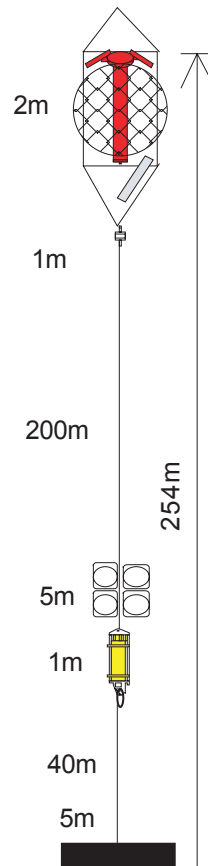
Binlength: 25 m

Depth of first bin: 672 m (corr.)

No. of bins: 23

Data:

All data ok.



NWNB1006 ADCP 1577

Error statistics for deployment: NWNB1006 updated 2011/08/29

 Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by TP in Jul 2011
 Velocity edited up to and including bin 23 by TP in Jul 2011
 Intensity edited up to and including bin 23 by EVM in Aug 2011

Total number of ensembles: 25205
 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. fldg	Velocity ens. fldg	% fldg	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	5	78	0	68	5	0	0	0	0	0	0	0	0
2	7	111	0	97	7	0	0	0	0	0	0	0	0
3	3	170	1	122	18	4	0	0	0	0	0	0	0
4	0	147	1	102	8	7	2	0	0	0	0	0	0
5	0	144	1	103	10	7	0	0	0	0	0	0	0
6	0	222	1	132	19	4	1	3	3	0	0	0	0
7	0	245	1	139	22	4	0	1	4	1	0	0	0
8	0	245	1	114	20	14	4	1	4	0	0	0	0
9	0	303	1	123	33	12	7	4	4	0	0	0	0
10	0	439	2	236	40	13	9	1	6	0	0	0	0
11	0	437	2	213	60	11	3	1	6	1	0	0	0
12	0	502	2	237	55	17	10	6	3	1	0	0	0
13	1	549	2	232	67	15	10	7	6	1	0	0	0
14	0	651	3	328	72	20	8	3	8	1	0	0	0
15	0	741	3	369	70	27	17	3	4	1	1	0	0
16	0	845	3	369	65	22	9	3	14	8	1	0	0
17	0	1820	7	472	115	38	21	11	28	18	12	3	0
18	0	3366	13	565	150	78	42	33	46	31	19	17	1
19	0	4963	20	530	162	97	56	34	97	37	15	41	4
20	0	6658	26	507	165	90	48	39	87	40	29	52	15
21	0	8605	34	526	189	88	54	48	81	64	40	57	27
22	0	11499	46	468	144	107	54	44	85	72	34	57	56
23	2	14541	58	360	143	84	44	39	97	80	40	45	68

NWNB1006 ADCP 1577

Deployment: NWNB1006 updated 2011/08/29
 Instrument no.: 1577
 Instrument freq.: 75
 Latitude: 62 55.060 N
 Longitude: 06 05.150 W
 Bottom depth: 961
 Instrument depth: 707
 Center depth of first bin: 672
 Bin length: 25
 Number of bins: 23
 Number of first ensemble: 206
 Time of first ensemble: 2010 06 04 04 20
 Number of last ensemble: 25410
 Time of last ensemble: 2011 05 20 05 40
 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	672	289	140	37	94	997
2	647	314	139	32	92	996
3	622	339	138	29	92	993
4	597	364	137	25	90	994
5	572	389	137	22	89	994
6	547	414	137	20	90	991
7	522	439	137	19	94	990
8	497	464	139	21	96	990
9	472	489	144	26	97	988
10	447	514	150	33	99	983
11	422	539	160	45	101	983
12	397	564	169	61	104	980
13	372	589	181	78	105	978
14	347	614	195	95	106	974
15	322	639	209	111	106	971
16	297	664	225	129	107	966
17	272	689	239	143	108	928
18	247	714	254	158	107	866
19	222	739	268	170	108	803
20	197	764	278	176	108	736
21	172	789	286	176	108	659
22	147	814	288	169	107	544
23	122	839	285	160	103	423

NWNB1006 ADCP 1577

Frequency of high speeds.

=====

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

=====

Bin Depth	Speed (cm/s)																	
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 672	602	217	65	15	4	1	0	0	0	0	0	0	0	0	0	0	0	0
2 647	603	212	61	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0
3 622	593	210	56	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0
4 597	597	205	54	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0
5 572	611	199	50	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6 547	613	195	47	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
7 522	615	197	46	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8 497	628	206	43	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
9 472	647	223	49	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
10 447	668	252	58	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0
11 422	700	293	75	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0
12 397	720	329	98	18	3	0	0	0	0	0	0	0	0	0	0	0	0	0
13 372	747	376	126	29	5	1	0	0	0	0	0	0	0	0	0	0	0	0
14 347	778	422	161	42	9	2	0	0	0	0	0	0	0	0	0	0	0	0
15 322	797	473	203	62	14	3	1	0	0	0	0	0	0	0	0	0	0	0
16 297	818	515	248	92	23	5	1	0	0	0	0	0	0	0	0	0	0	0
17 272	805	529	272	112	33	7	2	0	0	0	0	0	0	0	0	0	0	0
18 247	763	524	293	133	47	10	2	0	0	0	0	0	0	0	0	0	0	0
19 222	712	508	302	148	59	17	3	1	0	0	0	0	0	0	0	0	0	0
20 197	657	478	293	154	68	23	6	1	0	0	0	0	0	0	0	0	0	0
21 172	595	436	270	148	70	27	7	2	0	0	0	0	0	0	0	0	0	0
22 147	494	364	220	120	62	25	7	2	0	0	0	0	0	0	0	0	0	0
23 122	382	279	168	89	47	23	8	2	0	0	0	0	0	0	0	0	0	0

NWNB1006 ADCP 1577

Harmonic constants for constituent M2 for deployment NWNB1006.

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	672	73	266	41	125	80	23	154	94	A
02	647	76	268	41	131	82	26	156	96	A
03	622	79	269	41	136	84	28	158	97	A
04	597	82	271	42	142	87	31	160	98	A
05	572	85	273	42	150	89	33	162	100	A
06	547	87	276	40	158	89	34	165	102	A
07	522	89	279	38	167	90	34	169	103	A
08	497	93	283	38	176	94	36	172	105	A
09	472	98	287	41	190	98	40	176	108	A
10	447	105	292	46	201	105	46	180	112	A
11	422	112	295	51	208	112	51	2	294	A
12	397	116	298	55	215	116	54	4	296	A
13	372	118	301	58	220	118	57	6	298	A
14	347	119	303	61	225	120	60	8	300	A
15	322	121	308	65	233	122	62	11	303	A
16	297	121	313	69	241	123	65	14	305	A
17	272	120	318	74	248	124	68	17	308	A
18	247	121	321	80	252	126	72	20	309	A
19	222	123	323	82	256	129	72	22	310	A
20	197	124	327	85	258	130	76	22	313	A
21	172	128	328	94	260	135	83	25	313	A
22	147	133	330	96	260	140	86	23	316	A
23	122	135	331	102	258	142	93	23	315	A

Harmonic constants for constituent S2 for deployment NWNB1006.

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	672	31	312	16	189	32	13	161	140	A
02	647	32	314	16	195	33	14	163	141	A
03	622	33	315	16	200	34	14	165	142	A
04	597	33	318	17	206	34	15	167	144	A
05	572	34	319	16	211	34	15	169	144	A
06	547	35	321	16	216	35	16	171	145	A
07	522	35	323	15	225	35	15	175	145	A
08	497	35	328	15	234	35	15	178	148	A
09	472	36	330	16	239	36	16	179	151	A
10	447	37	336	17	254	37	17	5	333	A
11	422	39	344	19	270	39	18	10	339	A
12	397	40	348	22	276	40	20	13	342	A
13	372	41	348	22	275	41	21	12	342	A
14	347	42	346	23	274	42	22	13	340	A
15	322	39	346	21	276	40	19	14	339	A
16	297	36	347	18	286	38	15	16	340	A
17	272	34	352	18	304	37	12	22	345	A
18	247	36	359	20	313	39	13	25	350	A
19	222	40	5	23	320	43	15	26	356	A
20	197	42	9	27	319	46	19	28	357	A
21	172	41	5	26	314	45	18	26	354	A
22	147	37	359	26	312	42	17	31	346	A
23	122	39	358	30	300	44	23	30	341	A

NWNB1006 ADCP 1577

Harmonic constants for constituent N2 for deployment NWNB1006.

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	672	14	273	3	171	14	3	177	93	A
02	647	13	277	2	170	13	2	177	97	A
03	622	12	273	2	161	12	2	176	94	A
04	597	11	269	2	144	12	2	173	90	A
05	572	11	264	2	134	11	1	174	85	A
06	547	11	263	2	115	11	1	170	84	A
07	522	9	260	2	58	9	1	168	79	C
08	497	7	270	3	9	7	3	175	88	C
09	472	7	263	3	29	7	3	163	77	C
10	447	8	257	4	40	8	2	155	70	C
11	422	10	256	4	32	10	3	163	71	C
12	397	13	251	4	87	14	1	163	73	A
13	372	18	252	7	138	18	6	170	76	A
14	347	20	259	9	159	20	8	175	82	A
15	322	23	270	12	183	23	12	2	269	A
16	297	23	277	14	202	24	13	12	270	A
17	272	23	285	13	212	23	12	14	277	A
18	247	24	286	14	213	24	13	14	278	A
19	222	22	281	12	208	23	11	12	275	A
20	197	27	290	15	215	27	14	11	284	A
21	172	27	299	16	226	28	15	13	292	A
22	147	35	304	23	234	36	21	20	292	A
23	122	38	311	24	255	41	19	25	299	A

Harmonic constants for constituent O1 for deployment NWNB1006.

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	672	4	68	4	278	5	1	134	264	A
02	647	4	71	4	285	5	1	135	268	A
03	622	4	69	4	289	5	2	135	269	A
04	597	3	73	3	284	4	1	133	270	A
05	572	3	66	3	269	4	1	141	255	A
06	547	5	59	3	274	6	2	146	250	A
07	522	6	48	3	295	7	3	164	236	A
08	497	8	50	4	280	8	3	160	237	A
09	472	7	45	4	251	8	2	151	231	A
10	447	7	43	4	242	8	1	153	227	A
11	422	9	38	4	279	9	3	166	223	A
12	397	8	49	4	285	9	3	161	236	A
13	372	9	39	6	260	10	3	152	229	A
14	347	9	39	7	258	11	4	147	231	A
15	322	9	32	7	246	11	3	143	224	A
16	297	10	26	7	246	12	4	150	217	A
17	272	8	42	7	270	10	4	140	242	A
18	247	8	60	7	284	9	4	139	259	A
19	222	8	42	7	296	9	7	148	247	A
20	197	9	63	13	295	14	6	118	282	A
21	172	8	70	15	299	16	6	111	292	A
22	147	13	100	19	293	23	2	124	289	A
23	122	18	123	23	306	29	1	128	305	A

NWNB1006 ADCP 1577

Harmonic constants for constituent K1 for deployment NWNB1006.

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	672	6	276	5	125	7	2	137	109	A
02	647	6	277	5	120	8	2	142	106	A
03	622	7	272	6	118	9	2	141	102	A
04	597	8	271	6	122	10	3	143	102	A
05	572	8	274	7	127	10	3	141	107	A
06	547	7	273	7	123	10	3	137	107	A
07	522	8	272	7	123	10	3	136	107	A
08	497	8	266	7	129	10	4	141	103	A
09	472	9	268	7	131	10	4	145	103	A
10	447	10	265	7	133	11	5	150	98	A
11	422	11	272	7	150	12	6	154	105	A
12	397	11	272	7	140	12	5	151	104	A
13	372	11	271	8	127	13	4	145	103	A
14	347	10	264	9	125	13	5	141	101	A
15	322	9	273	8	139	11	5	140	113	A
16	297	12	276	8	138	14	5	150	107	A
17	272	14	263	6	171	14	6	179	84	A
18	247	10	246	6	204	11	4	27	237	A
19	222	8	199	8	214	11	1	47	207	C
20	197	7	173	13	236	14	6	72	228	C
21	172	7	153	13	236	13	7	85	233	C
22	147	3	134	12	215	12	3	88	215	C
23	122	8	272	11	185	11	8	86	188	A

NWNE1006

Latitude: 62°47.590'N

Longitude: 006°04.980'W

Echo sounding depth: 454 m

Bottom depth corr.: 456 m

Time of deployment: 4/6 - 2010 0244 UTC

Time of recovery: 20/5 – 2011 0447 UTC

ADCP:

Instrument no.: RDI ADCP 1244

Instrument frequency: 150 kHz

Height above bottom: 1 m

Depth: 455 m (corr.)

Time of first data: 4/6 – 2010 0300 UTC

Time of last data: 20/5 – 2011 0420 UTC

Sample interval: 20 min

No. of ensembles: 25205

Pings per ens.: 1

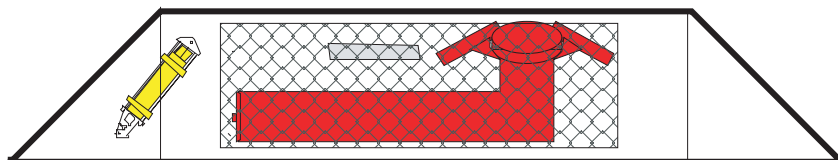
Binlength: 25 m

Depth of first bin: 424 m (corr.)

No. of bins: 14

Data:

All data ok.



NWNE1006 ADCP 1244

Error statistics for deployment: NWNE1006 updated 2011/11/30

 Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EVM in Sep 2011
 Velocity edited up to and including bin 14 by JMB in Nov 2011
 Intensity edited up to and including bin 14 by EVM in Sep 2011

Total number of ensembles: 25205
 Interval between ensembles: 20 min
 Original number of bins: 20
 Number of acceptable velocity bins: 14
 Number of acceptable intensity bins: 14

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	% flgd	Number of velocity gaps of length									
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50
1	0	1056	4	833	78	11	3	1	2	0	0	0	0
2	0	1197	5	960	95	13	2	0	0	0	0	0	0
3	0	1522	6	1214	115	16	5	2	0	0	0	0	0
4	0	1601	6	1253	133	20	4	1	0	0	0	0	0
5	0	1837	7	1407	159	27	5	1	1	0	0	0	0
6	0	1851	7	1433	157	21	6	2	1	0	0	0	0
7	0	1925	8	1433	172	32	7	2	2	0	0	0	0
8	0	2023	8	1433	203	31	14	3	3	0	0	0	0
9	0	2054	8	1374	209	37	13	6	8	1	0	0	0
10	0	2260	9	1331	216	59	24	7	20	3	0	0	0
11	0	3167	13	1346	217	76	34	6	45	21	11	3	0
12	0	4634	18	1198	252	101	50	25	84	33	22	17	0
13	0	6842	27	1265	301	157	65	37	110	47	32	48	0
14	0	10085	40	1534	453	199	90	57	128	65	35	82	6

NWNE1006 ADCP 1244

Deployment: NWNE1006 updated 2011/11/30
Instrument no.: 1244
Instrument freq.: 150
Latitude: 62 47.590 N
Longitude: 06 04.980 W
Bottom depth: 456
Instrument depth: 455
Center depth of first bin: 424
Bin length: 25
Number of bins: 14
Number of first ensemble: 202
Time of first ensemble: 2010 06 04 03 00
Number of last ensemble: 25406
Time of last ensemble: 2011 05 20 04 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	424	32	218	98	92	958
2	399	57	228	120	98	953
3	374	82	236	140	102	940
4	349	107	244	159	103	936
5	324	132	253	175	103	927
6	299	157	262	190	104	927
7	274	182	273	203	104	924
8	249	207	282	214	105	920
9	224	232	290	222	105	919
10	199	257	297	229	105	910
11	174	282	302	234	105	874
12	149	307	305	235	105	816
13	124	332	309	236	106	729
14	99	357	313	233	105	600

NWNE1006 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	424	796	477	228	92	26	3	0	0	0	0	0	0	0	0	0	0	0	0
2	399	791	486	252	122	43	10	1	0	0	0	0	0	0	0	0	0	0	0
3	374	797	491	267	132	52	14	2	0	0	0	0	0	0	0	0	0	0	0
4	349	797	510	291	142	60	19	4	0	0	0	0	0	0	0	0	0	0	0
5	324	795	519	307	162	71	22	5	1	0	0	0	0	0	0	0	0	0	0
6	299	802	534	329	186	84	28	7	1	0	0	0	0	0	0	0	0	0	0
7	274	803	559	356	203	98	35	9	2	0	0	0	0	0	0	0	0	0	0
8	249	804	573	371	221	111	45	13	2	0	0	0	0	0	0	0	0	0	0
9	224	808	580	387	234	123	53	18	3	1	0	0	0	0	0	0	0	0	0
10	199	802	583	396	247	132	62	23	5	1	0	0	0	0	0	0	0	0	0
11	174	773	566	388	244	137	66	27	7	1	0	0	0	0	0	0	0	0	0
12	149	720	531	362	234	133	66	28	10	1	0	0	0	0	0	0	0	0	0
13	124	645	477	327	211	122	64	28	11	2	1	0	0	0	0	0	0	0	0
14	99	535	400	273	174	103	54	25	11	3	1	0	0	0	0	0	0	0	0

NWNE1006 ADCP 1244

Harmonic constants for constituent M2 for deployment NWNE1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	424	121	257	100	139	136	78	146	98	A
02	399	130	264	103	148	144	83	149	103	A
03	374	136	274	96	160	145	83	156	109	A
04	349	140	284	90	175	145	83	162	115	A
05	324	139	294	83	190	141	79	168	120	A
06	299	140	303	80	205	141	79	173	126	A
07	274	141	309	79	216	142	79	178	131	A
08	249	141	314	80	224	141	80	180	134	A
09	224	140	317	80	230	140	79	3	315	A
10	199	139	319	79	234	139	79	4	317	A
11	174	137	320	79	238	138	78	7	316	A
12	149	136	321	79	240	137	77	8	317	A
13	124	136	323	77	241	136	76	6	320	A
14	99	136	327	77	245	137	76	7	323	A

Harmonic constants for constituent S2 for deployment NWNE1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	424	47	306	35	197	49	31	156	142	A
02	399	50	309	37	204	52	35	160	143	A
03	374	51	316	35	215	52	34	166	146	A
04	349	51	323	36	224	52	35	169	151	A
05	324	53	330	35	234	53	35	173	155	A
06	299	52	338	33	247	52	33	179	159	A
07	274	49	348	30	261	49	30	3	346	A
08	249	50	354	28	267	50	28	2	353	A
09	224	51	357	27	269	51	27	1	356	A
10	199	49	359	26	270	49	26	1	358	A
11	174	47	358	23	275	47	23	5	356	A
12	149	44	354	21	275	45	21	7	351	A
13	124	42	355	23	276	42	22	9	350	A
14	99	49	2	25	275	49	25	2	1	A

NWNE1006 ADCP 1244

Harmonic constants for constituent N2 for deployment NWNE1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	424	20	238	18	115	24	13	142	80	A
02	399	22	221	24	98	29	16	131	73	A
03	374	18	228	20	93	24	10	131	74	A
04	349	17	261	10	109	19	4	151	88	A
05	324	21	286	8	184	21	8	175	107	A
06	299	25	293	12	206	25	12	2	292	A
07	274	27	294	14	213	27	14	6	291	A
08	249	29	290	15	203	29	15	3	288	A
09	224	30	289	15	204	30	15	3	288	A
10	199	31	288	17	201	31	17	2	287	A
11	174	32	291	16	196	32	16	177	112	A
12	149	29	287	16	195	29	16	178	108	A
13	124	31	290	17	195	31	17	176	113	A
14	99	30	288	20	196	30	20	178	109	A

Harmonic constants for constituent O1 for deployment NWNE1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	424	16	28	10	314	16	9	14	21	A
02	399	18	35	9	299	18	9	176	217	A
03	374	19	35	8	283	19	7	170	219	A
04	349	19	36	9	287	20	9	169	221	A
05	324	19	36	11	298	19	11	173	220	A
06	299	19	40	11	297	19	11	168	227	A
07	274	21	39	12	299	21	12	172	223	A
08	249	22	37	12	295	22	11	172	221	A
09	224	21	40	12	297	21	11	170	225	A
10	199	20	38	12	297	21	12	170	224	A
11	174	20	37	11	297	20	11	171	222	A
12	149	23	32	12	296	23	11	175	215	A
13	124	23	35	10	303	23	10	179	215	A
14	99	22	40	12	313	22	12	3	38	A

NWNE1006 ADCP 1244

Harmonic constants for constituent K1 for deployment NWNE1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	424	20	254	13	176	20	12	11	248	A
02	399	19	263	12	163	19	11	171	88	A
03	374	19	269	13	158	20	11	160	101	A
04	349	18	273	14	149	20	10	147	111	A
05	324	18	280	15	146	21	9	141	119	A
06	299	21	286	16	149	25	9	145	121	A
07	274	22	279	16	152	25	12	148	115	A
08	249	21	276	16	154	24	12	148	114	A
09	224	20	276	18	155	23	13	142	119	A
10	199	18	276	18	157	22	13	136	126	A
11	174	15	265	17	161	18	13	119	139	A
12	149	7	222	17	173	18	5	75	177	A
13	124	9	170	17	179	20	1	62	177	C
14	99	14	166	16	188	21	4	49	179	C

NWNG1006

Latitude: 63°06.000'N
Longitude: 006°05.000'W
Echo sounding depth: 1844 m
Bottom depth corr.: 1796 m
Time of deployment: 4/6 - 2010 0505 UTC
Time of recovery: 20/5 - 2011 0802 UTC

ADCP:

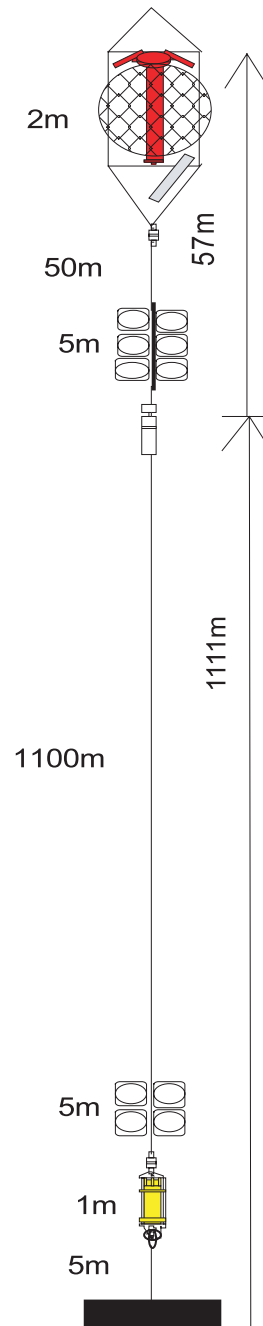
Instrument no.: RDI ADCP 1292
Instrument frequency: 75 kHz
Height above bottom: 1168 m
Depth: 628 m (corr.)
Time of first data: 4/6 – 2010 0540 UTC
Time of last data: 20/5 – 2011 0740 UTC
Sample interval: 20 min
No. of ensembles: 25207
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 593 m (corr.)
No. of bins: 22

Aanderaa:

Instrument no.: RCM9 721
Height above bottom: 1111 m
Depth: 685 m (corr.)
Time of first data: 4/6 – 2010 0530 UTC
Time of last data: 20/5 – 2011 0630 UTC
Sample interval: 60 min
No. of ensembles: 8402

Data:

All data ok.



NWNG1006 ADCP 1292

Error statistics for deployment: NWNG1006 updated 2011/09/07

Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EVM in Sep 2011
 Velocity edited up to and including bin 22 by TP in Aug 2011
 Intensity edited up to and including bin 22 by EVM in Sep 2011

Total number of ensembles: 25207
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 22
 Number of acceptable intensity bins: 22

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

Number of temperature ens. flagged: 2

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

Bin	Int. ens. flgd	Velocity ens. flgd	% flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	3	158	1	109	16	4	0	1	0	0	0	0	0	
2	0	182	1	112	18	10	1	0	0	0	0	0	0	
3	0	224	1	119	35	4	2	3	0	0	0	0	0	
4	0	185	1	102	29	5	1	0	1	0	0	0	0	
5	0	201	1	123	10	12	4	0	1	0	0	0	0	
6	0	179	1	82	25	5	4	2	1	0	0	0	0	
7	0	195	1	85	24	8	4	2	2	0	0	0	0	
8	0	206	1	104	25	9	5	1	0	0	0	0	0	
9	0	364	1	154	35	20	4	6	5	0	0	0	0	
10	0	435	2	159	39	13	8	3	5	3	1	0	0	
11	1	638	3	266	70	30	8	4	11	1	0	0	0	
12	0	780	3	274	50	28	20	18	18	3	0	0	0	
13	0	954	4	386	84	42	23	6	14	4	0	0	0	
14	0	1120	4	378	89	46	20	19	17	4	3	0	0	
15	0	1522	6	413	131	49	27	11	30	11	5	1	0	
16	0	2123	8	464	141	57	39	19	40	14	7	8	0	
17	1	2956	12	520	143	51	48	25	54	25	9	18	0	
18	0	4096	16	485	120	78	37	18	55	40	25	27	3	
19	1	6649	26	425	161	73	45	21	69	54	27	59	16	
20	0	7639	30	422	119	58	32	15	47	53	22	71	32	
21	0	10694	42	497	131	85	35	26	79	73	37	67	51	
22	0	14889	59	486	150	79	43	21	66	71	41	57	84	

NWNG1006 ADCP 1292

Deployment: NWNG1006 updated 2011/09/07
 Instrument no.: 1292
 Instrument freq.: 75
 Latitude: 63 06.000 N
 Longitude: 06 05.000 W
 Bottom depth: 1796
 Instrument depth: 628
 Center depth of first bin: 593
 Bin length: 25
 Number of bins: 22
 Number of first ensemble: 210
 Time of first ensemble: 2010 06 04 05 40
 Number of last ensemble: 25416
 Time of last ensemble: 2011 05 20 07 40
 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	593	1203	94	16	127	994
2	568	1228	96	17	127	993
3	543	1253	98	17	128	991
4	518	1278	101	18	127	993
5	493	1303	106	18	125	992
6	468	1328	111	19	120	993
7	443	1353	117	21	119	992
8	418	1378	124	23	115	992
9	393	1403	131	26	110	986
10	368	1428	140	32	108	983
11	343	1453	149	37	108	975
12	318	1478	161	44	108	969
13	293	1503	173	51	108	962
14	268	1528	187	57	108	956
15	243	1553	201	63	108	940
16	218	1578	218	70	108	916
17	193	1603	234	73	108	883
18	168	1628	249	76	107	838
19	143	1653	265	78	101	736
20	118	1678	280	82	98	697
21	93	1703	293	92	94	576
22	68	1728	305	109	91	409

NWNG1006 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
1 593	403	34	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 568	418	43	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 543	433	52	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 518	453	61	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 493	480	76	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 468	508	95	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 443	536	118	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 418	570	146	22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 393	594	174	32	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0
10 368	622	209	46	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
11 343	650	247	66	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0
12 318	676	290	87	20	3	0	0	0	0	0	0	0	0	0	0	0	0	0
13 293	706	335	111	27	5	1	0	0	0	0	0	0	0	0	0	0	0	0
14 268	736	383	147	40	9	1	0	0	0	0	0	0	0	0	0	0	0	0
15 243	750	421	181	60	14	2	0	0	0	0	0	0	0	0	0	0	0	0
16 218	762	459	217	83	24	4	0	0	0	0	0	0	0	0	0	0	0	0
17 193	751	474	244	106	38	9	1	0	0	0	0	0	0	0	0	0	0	0
18 168	726	483	262	127	51	15	2	0	0	0	0	0	0	0	0	0	0	0
19 143	652	461	260	131	59	21	5	1	0	0	0	0	0	0	0	0	0	0
20 118	630	457	268	142	67	26	9	3	0	0	0	0	0	0	0	0	0	0
21 93	525	391	239	129	65	30	11	5	2	1	0	0	0	0	0	0	0	0
22 68	378	283	179	100	56	28	12	5	3	1	1	0	0	0	0	0	0	0

NWNG1006 ADCP 1292

Harmonic constants for constituent M2 for deployment NWNG1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	593	69	291	27	243	72	19	16	287	A
02	568	70	293	29	246	73	20	17	288	A
03	543	70	294	30	249	73	20	18	289	A
04	518	69	295	30	251	73	20	19	290	A
05	493	69	296	31	254	74	20	20	291	A
06	468	70	298	34	257	75	21	21	292	A
07	443	70	302	36	262	76	21	24	295	A
08	418	68	306	38	270	75	20	27	299	A
09	393	65	310	42	280	75	18	31	302	A
10	368	63	315	45	287	75	18	34	306	A
11	343	63	322	50	292	77	20	37	311	A
12	318	65	328	57	294	82	25	40	313	A
13	293	67	333	63	294	86	30	43	315	A
14	268	69	339	71	298	92	35	46	318	A
15	243	69	345	78	302	97	38	50	320	A
16	218	71	350	82	306	100	41	51	324	A
17	193	74	357	93	308	109	47	54	326	A
18	168	75	2	99	307	112	54	58	324	A
19	143	80	4	106	308	119	59	58	325	A
20	118	84	3	107	309	122	60	57	326	A
21	93	85	359	110	313	128	52	55	329	A
22	68	84	357	98	312	119	48	51	330	A

Harmonic constants for constituent S2 for deployment NWNG1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	593	26	329	11	288	27	7	19	324	A
02	568	26	330	11	289	27	7	20	325	A
03	543	24	333	11	297	26	6	21	328	A
04	518	24	334	11	299	25	6	21	329	A
05	493	23	332	10	298	25	5	21	327	A
06	468	23	329	9	297	24	4	19	325	A
07	443	23	329	8	303	24	3	18	326	A
08	418	22	330	9	318	23	2	21	328	A
09	393	20	338	10	333	22	1	27	337	A
10	368	19	353	13	342	23	2	33	349	A
11	343	17	359	15	347	23	2	42	353	A
12	318	15	9	16	348	22	4	46	359	A
13	293	15	22	18	355	23	5	51	6	A
14	268	16	32	20	358	24	7	51	11	A
15	243	16	29	22	359	26	7	55	9	A
16	218	16	30	21	358	25	7	55	9	A
17	193	17	34	23	354	27	9	56	7	A
18	168	20	28	25	354	31	9	53	6	A
19	143	25	22	24	351	34	9	44	7	A
20	118	30	21	23	334	35	14	34	5	A
21	93	34	22	23	341	39	13	31	11	A
22	68	26	30	26	342	34	15	45	5	A

NWNG1006 ADCP 1292

Harmonic constants for constituent N2 for deployment NWNG1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	593	13	260	3	206	14	3	8	258	A
02	568	14	265	4	217	14	3	10	263	A
03	543	13	263	4	219	14	2	12	261	A
04	518	13	263	3	229	13	2	12	261	A
05	493	13	268	3	247	13	1	13	267	A
06	468	13	271	4	251	13	1	17	270	A
07	443	13	276	5	251	14	2	19	273	A
08	418	15	288	9	263	17	3	30	282	A
09	393	17	299	13	263	21	7	36	286	A
10	368	18	304	14	256	21	9	36	287	A
11	343	19	302	15	251	22	10	33	286	A
12	318	19	305	15	256	22	10	34	289	A
13	293	20	304	15	256	23	10	32	290	A
14	268	21	307	15	256	23	10	31	292	A
15	243	20	308	15	258	23	10	33	292	A
16	218	21	308	17	266	25	9	37	293	A
17	193	22	313	19	267	27	11	39	295	A
18	168	25	321	21	259	29	17	35	299	A
19	143	30	324	22	257	32	19	25	308	A
20	118	34	325	22	257	36	20	19	315	A
21	93	34	324	22	265	36	18	25	311	A
22	68	45	319	31	274	51	19	32	306	A

Harmonic constants for constituent O1 for deployment NWNG1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	593	5	62	2	286	5	1	163	246	A
02	568	5	65	2	276	5	1	162	248	A
03	543	4	60	2	294	5	1	166	245	A
04	518	5	61	2	291	5	1	163	246	A
05	493	5	56	2	293	6	1	170	238	A
06	468	5	49	2	283	5	1	167	233	A
07	443	5	56	2	282	5	1	160	242	A
08	418	5	57	2	299	5	2	169	241	A
09	393	5	56	2	290	6	1	167	240	A
10	368	5	47	1	250	5	1	165	229	A
11	343	4	44	1	308	4	1	178	224	A
12	318	6	47	2	327	6	2	3	46	A
13	293	7	44	2	331	7	2	5	42	A
14	268	7	35	2	353	7	1	15	32	A
15	243	8	38	5	356	8	3	28	28	A
16	218	10	36	3	330	10	3	8	34	A
17	193	10	39	4	310	10	4	0	39	A
18	168	9	54	3	282	9	2	167	237	A
19	143	9	41	2	100	9	2	7	42	C
20	118	12	3	1	113	12	1	179	183	C
21	93	14	354	5	232	15	4	169	176	A
22	68	18	350	12	255	18	12	174	174	A

NWNG1006 ADCP 1292

Harmonic constants for constituent K1 for deployment NWNG1006.

Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	593	4	293	3	165	5	2	140	135	A
02	568	4	284	3	159	5	2	140	128	A
03	543	4	290	3	152	4	2	139	128	A
04	518	4	287	3	150	4	2	141	124	A
05	493	4	294	2	150	4	1	150	123	A
06	468	4	304	2	136	4	0	149	127	A
07	443	4	290	3	129	5	1	148	115	A
08	418	5	283	3	144	5	2	150	114	A
09	393	5	289	3	151	6	2	158	116	A
10	368	6	282	3	174	6	3	171	106	A
11	343	5	294	3	154	6	2	155	121	A
12	318	6	304	3	152	6	1	156	129	A
13	293	7	305	2	222	7	2	3	304	A
14	268	7	313	3	263	7	2	17	308	A
15	243	6	290	4	267	7	1	28	285	A
16	218	5	287	3	267	5	1	30	282	A
17	193	3	298	5	260	6	2	60	270	A
18	168	3	241	11	264	11	1	74	262	C
19	143	5	167	17	261	17	5	91	261	C
20	118	6	111	22	250	23	4	103	252	C
21	93	4	123	22	238	23	4	95	239	C
22	68	10	352	23	229	24	8	105	224	A

NWNG1006 Aanderaa 721

Deployment: NWNG1006 analyzed from beginning to end
 Instrument no.: 721
 Instrument type: Aanderaa
 Latitude: 63 06.000 N
 Longitude: 06 05.000 W
 Bottom depth: 1796
 Instrument depth: 685
 Number of records: 8402
 Time of first record: 2010 06 04 05 30
 Time of last record : 2011 05 20 06 30
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8402	0
Column 8 : Speed	8402	0
Column 9 : Direct	8402	0

Comments

Residual current: 18 mm/sec towards: 136 degrees

TIDAL ANALYSIS

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

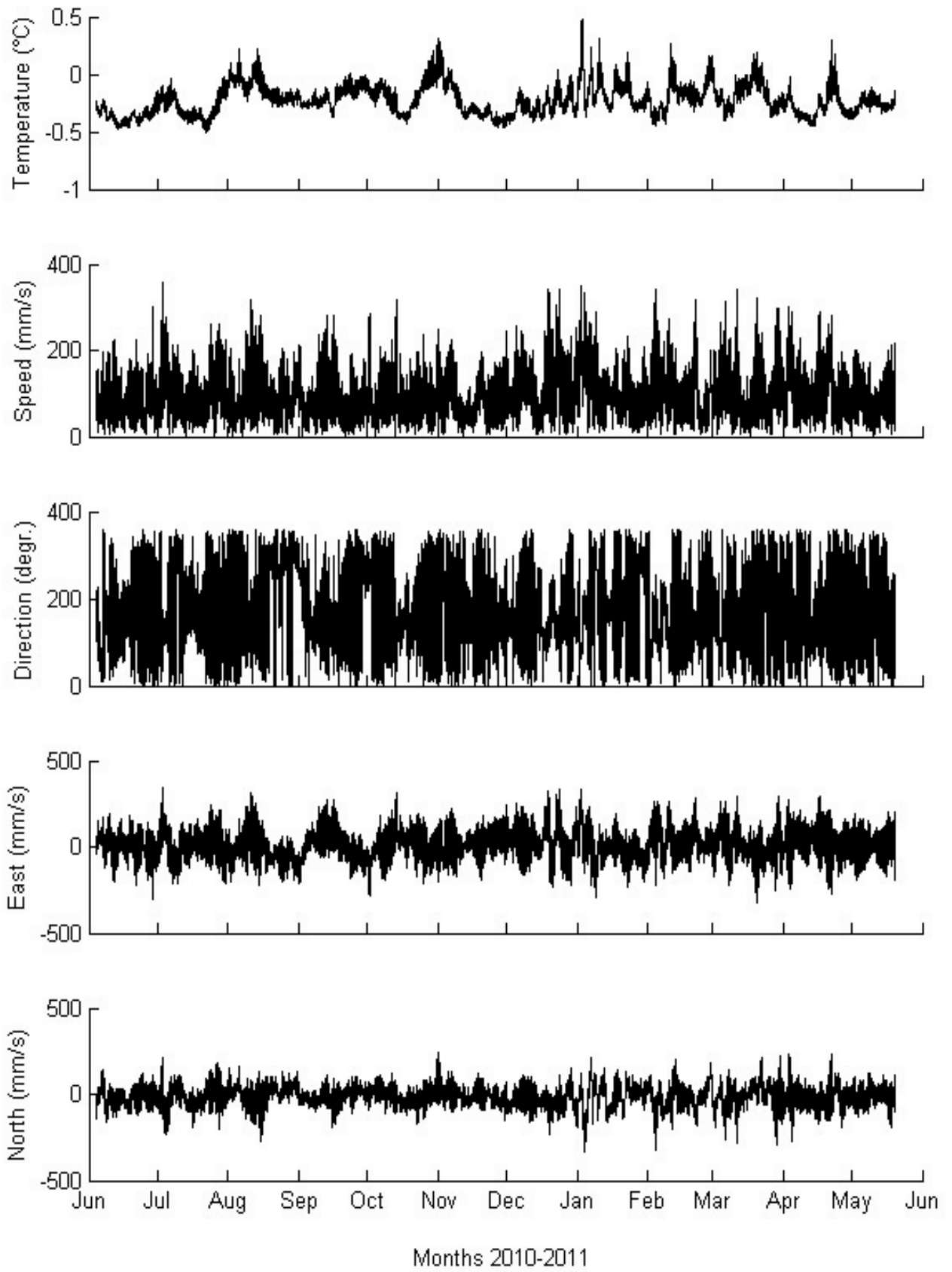
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	9	102	2	37	10	1	4	101	A
MSF	.00282193	6	346	2	213	6	2	163	171	A
Q1	.03721850	4	34	1	163	4	0	173	213	C
O1	.03873065	6	64	1	311	6	1	177	244	A
NO1	.04026859	0	121	1	327	1	0	106	325	A
P1	.04155259	2	282	1	116	2	0	153	105	A
K1	.04178075	5	297	3	162	5	2	152	128	A
N2	.07899925	15	249	2	166	15	2	1	249	A
M2	.08051140	81	288	32	240	84	23	16	283	A
L2	.08202355	10	314	9	242	11	8	31	292	A
S2	.08333334	30	325	12	281	31	8	18	320	A
K2	.08356149	7	339	5	295	9	3	32	326	A
MK3	.12229210	1	92	0	34	1	0	20	83	A
M4	.16102280	1	61	1	21	1	0	29	51	A
MS4	.16384470	1	205	1	121	1	1	9	199	A

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

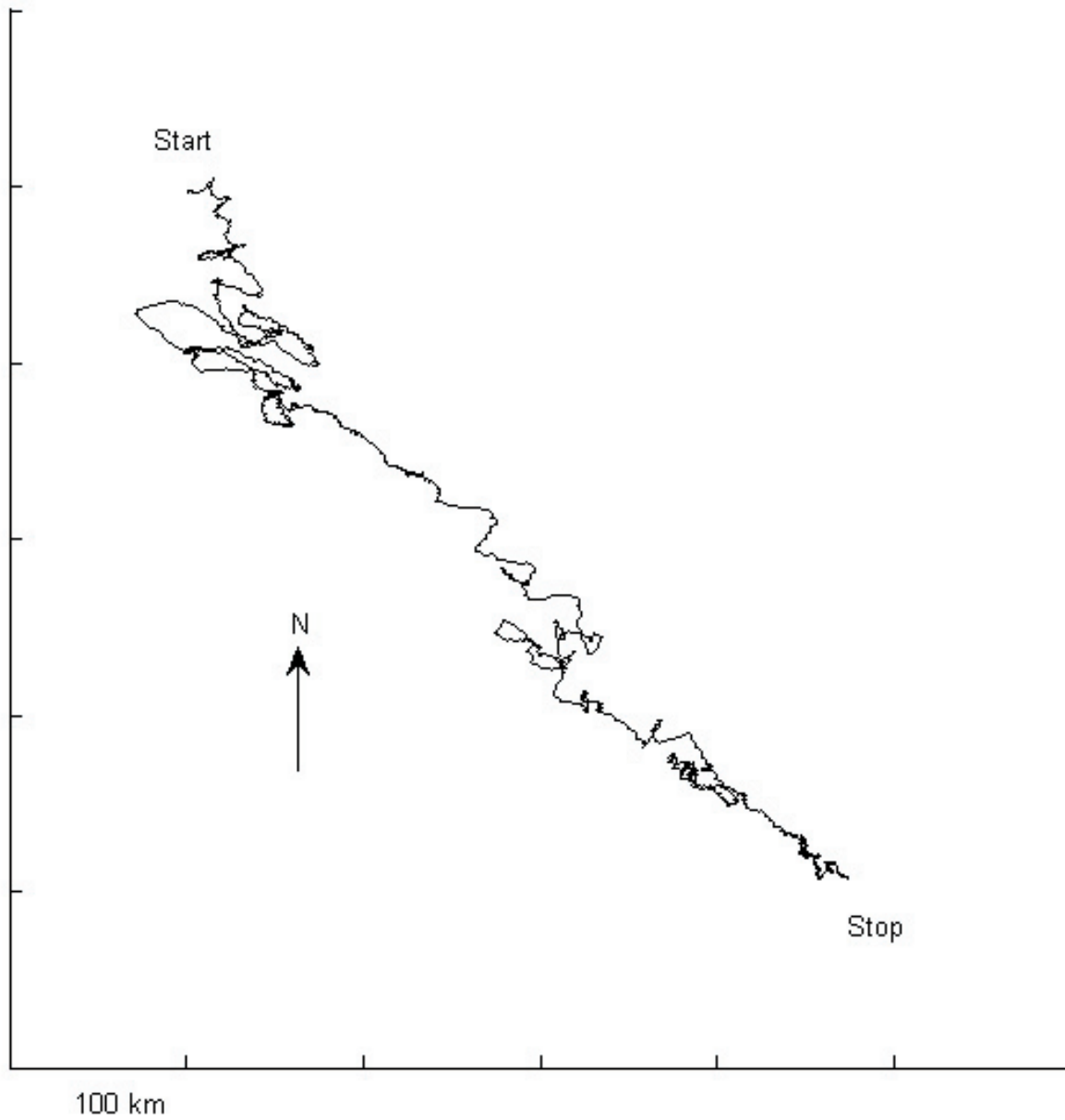
Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	17	15	15	17	20	20	18	18	17	15	17	15	205	205
50 - 100	23	28	40	39	36	32	35	33	36	35	22	18	376	581
100 - 150	9	18	35	36	23	16	15	24	29	24	10	5	245	826
150 - 200	2	9	18	20	9	5	6	12	17	10	1	1	111	937
200 - 300	1	3	13	15	6	3	3	5	5	4	1	0.24	59	996
300 - 400	0	0.12	1	1	1	0.36	0.24	0.12	0.36	0	0	0	4	1000
Total (ppt)	53	73	122	128	95	76	77	91	105	90	51	39		
Rel.flux (ppt)	41	72	144	154	96	66	70	91	112	89	38	26		
Avg.spd (mm/s)	78	98	118	121	100	87	91	100	106	100	75	67		
Max.spd (mm/s)	249	311	358	343	343	331	340	320	320	290	261	223		

NWNG1006 Aanderaa 721



NWNG1006 Aanderaa 721



NWSC1006

Latitude: 60°34.000'N
Longitude: 004°46.000'W
Echo sounding depth: 1096 m
Bottom depth corr.: 1066 m
Time of deployment: 5/6 - 2010 0115 UTC
Time of recovery: 21/5 - 2011 1758 UTC

ADCP:

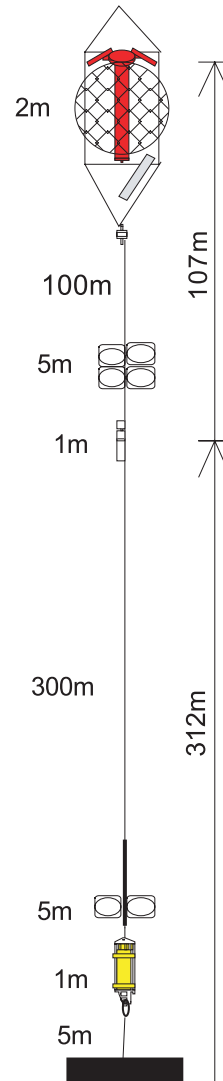
Instrument no.: RDI ADCP 1644
Instrument frequency: 75 kHz
Height above bottom: 419 m (corr.)
Depth: 647 m (corr.)
Time of first data: 5/6 - 2010 0140 UTC
Time of last data: 21/5 - 2011 1740 UTC
Sample interval: 20 min
No. of ensembles: 25249
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 612 m (corr.)
No. of bins: 20

Aanderaa:

Instrument no.: RCM9 718
Height above bottom: 312 m
Depth: 754 m (corr.)
Time of first data: 5/6 - 2010 0130 UTC
Time of last data: 21/5 - 2011 1630 UTC
Sample interval: 60 min
No. of records: 8416

Data:

All data ok.



NWSC1006 ADCP 1644

Error statistics for deployment: NWSC1006 updated 2011/08/29

 Surface distance not edited
 Heading, pitch and roll not edited
 Temperature edited by EVM in Aug 2011
 Velocity edited up to and including bin 20 by ErJ in Aug 2011
 Intensity edited up to and including bin 20 by EVM in Aug 2011

Total number of ensembles: 25249
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 20
 Number of acceptable intensity bins: 20

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. fld	Velocity ens. fld	% fld	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	1	98	0	92	3	0	0	0	0	0	0	0	0	0
2	0	37	0	37	0	0	0	0	0	0	0	0	0	0
3	0	35	0	35	0	0	0	0	0	0	0	0	0	0
4	0	30	0	30	0	0	0	0	0	0	0	0	0	0
5	0	47	0	40	2	1	0	0	0	0	0	0	0	0
6	0	50	0	44	3	0	0	0	0	0	0	0	0	0
7	0	26	0	22	2	0	0	0	0	0	0	0	0	0
8	1	52	0	46	3	0	0	0	0	0	0	0	0	0
9	0	94	0	88	3	0	0	0	0	0	0	0	0	0
10	1	121	0	113	4	0	0	0	0	0	0	0	0	0
11	1	128	1	110	9	0	0	0	0	0	0	0	0	0
12	2	138	1	134	2	0	0	0	0	0	0	0	0	0
13	0	196	1	152	13	2	3	0	0	0	0	0	0	0
14	0	276	1	195	12	5	3	1	2	1	0	0	0	0
15	0	671	3	331	47	15	9	3	11	3	1	0	0	0
16	0	954	4	458	62	21	7	6	10	5	2	2	0	0
17	0	1808	7	591	124	44	28	15	24	18	5	1	1	1
18	0	3689	15	846	241	98	49	38	60	42	15	7	0	0
19	1	6164	24	848	277	125	84	57	125	61	34	29	1	1
20	0	9015	36	1069	310	167	94	55	134	93	42	65	3	3

NWSC1006 ADCP 1644

Deployment: NWSC1006 updated 2011/08/29
 Instrument no.: 1644
 Instrument freq.: 75
 Latitude: 60 34.000 N
 Longitude: 04 46.000 W
 Bottom depth: 1066
 Instrument depth: 647
 Center depth of first bin: 612
 Bin length: 25
 Number of bins: 20
 Number of first ensemble: 270
 Time of first ensemble: 2010 06 05 01 40
 Number of last ensemble: 25518
 Time of last ensemble: 2011 05 21 17 40
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -5.0

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	612	454	174	59	199	996
2	587	479	175	59	197	999
3	562	504	176	57	196	999
4	537	529	177	55	193	999
5	512	554	180	55	191	998
6	487	579	184	56	187	998
7	462	604	190	58	183	999
8	437	629	197	59	179	998
9	412	654	204	63	174	996
10	387	679	210	65	170	995
11	362	704	215	64	164	995
12	337	729	223	61	160	995
13	312	754	231	60	156	992
14	287	779	237	61	151	989
15	262	804	244	64	147	973
16	237	829	253	67	145	962
17	212	854	262	70	143	928
18	187	879	273	77	141	854
19	162	904	285	82	140	756
20	137	929	295	87	134	643

NWSC1006 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
1 612	741	353	114	29	4	1	0	0	0	0	0	0	0	0	0	0	0	0
2 587	746	356	114	29	4	1	0	0	0	0	0	0	0	0	0	0	0	0
3 562	749	362	116	29	4	1	0	0	0	0	0	0	0	0	0	0	0	0
4 537	751	370	118	31	5	1	0	0	0	0	0	0	0	0	0	0	0	0
5 512	760	377	126	32	5	1	0	0	0	0	0	0	0	0	0	0	0	0
6 487	767	391	138	33	6	1	0	0	0	0	0	0	0	0	0	0	0	0
7 462	786	409	152	42	9	2	0	0	0	0	0	0	0	0	0	0	0	0
8 437	802	430	169	52	13	3	1	0	0	0	0	0	0	0	0	0	0	0
9 412	809	457	192	61	18	5	2	0	0	0	0	0	0	0	0	0	0	0
10 387	815	478	205	71	21	6	2	1	0	0	0	0	0	0	0	0	0	0
11 362	827	494	221	76	25	6	2	1	0	0	0	0	0	0	0	0	0	0
12 337	840	514	241	90	26	7	2	1	0	0	0	0	0	0	0	0	0	0
13 312	842	540	263	103	33	10	3	1	0	0	0	0	0	0	0	0	0	0
14 287	849	555	282	117	40	13	4	1	0	0	0	0	0	0	0	0	0	0
15 262	835	559	294	132	49	16	6	2	0	0	0	0	0	0	0	0	0	0
16 237	834	572	312	145	62	22	7	2	1	0	0	0	0	0	0	0	0	0
17 212	809	568	323	156	72	29	9	3	1	0	0	0	0	0	0	0	0	0
18 187	751	543	321	165	78	33	12	4	1	0	0	0	0	0	0	0	0	0
19 162	674	495	304	165	82	38	16	6	1	0	0	0	0	0	0	0	0	0
20 137	575	426	272	157	82	40	17	6	2	1	0	0	0	0	0	0	0	0

NWSC1006 ADCP 1644

Harmonic constants for constituent M2 for deployment NWSC1006.

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	612	161	255	92	249	186	8	30	254	A
02	587	160	255	93	250	185	8	30	254	A
03	562	159	256	94	250	185	7	31	254	A
04	537	158	256	96	251	185	7	31	255	A
05	512	158	257	97	252	185	7	32	255	A
06	487	156	257	97	254	184	5	32	256	A
07	462	151	258	99	256	181	2	33	257	A
08	437	147	260	105	259	181	1	36	259	A
09	412	142	261	112	262	181	0	38	261	C
10	387	135	262	114	265	177	4	40	264	C
11	362	127	264	117	269	172	8	43	266	C
12	337	121	266	122	271	172	8	45	269	C
13	312	118	267	127	273	173	9	47	270	C
14	287	115	268	131	274	174	10	49	271	C
15	262	113	269	134	275	175	9	50	273	C
16	237	113	271	138	276	178	8	51	274	C
17	212	116	271	140	277	181	9	50	274	C
18	187	117	270	141	277	183	11	51	274	C
19	162	120	270	143	279	186	15	50	276	C
20	137	121	270	147	280	190	16	50	276	C

Harmonic constants for constituent S2 for deployment NWSC1006.

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	612	45	296	42	308	61	6	43	302	C
02	587	45	296	41	308	61	6	43	301	C
03	562	45	297	42	307	61	6	43	302	C
04	537	46	298	43	305	63	4	43	302	C
05	512	47	299	43	305	64	3	42	302	C
06	487	48	300	44	302	65	1	43	301	C
07	462	50	300	44	299	66	0	41	300	A
08	437	51	299	42	296	66	2	39	298	A
09	412	55	301	43	295	70	3	38	299	A
10	387	55	299	43	295	70	2	38	297	A
11	362	53	295	41	297	67	1	38	296	C
12	337	54	290	41	295	68	3	37	292	C
13	312	57	290	40	291	69	1	35	290	C
14	287	58	294	39	291	70	1	34	293	A
15	262	57	298	40	291	69	4	35	296	A
16	237	58	299	39	290	70	5	34	296	A
17	212	59	299	39	290	70	5	33	296	A
18	187	65	300	39	290	76	6	31	298	A
19	162	67	303	37	288	76	9	29	300	A
20	137	71	301	39	290	81	6	29	299	A

NWSC1006 ADCP 1644

Harmonic constants for constituent N2 for deployment NWSC1006.

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	612	35	222	12	220	37	0	19	222	A
02	587	35	224	14	224	37	0	22	224	C
03	562	34	224	14	224	37	0	22	224	A
04	537	34	225	14	222	37	1	23	225	A
05	512	35	229	16	221	39	2	25	227	A
06	487	35	233	19	227	39	2	28	231	A
07	462	33	237	21	230	39	2	33	235	A
08	437	31	244	24	237	39	2	38	241	A
09	412	27	245	25	241	37	2	43	243	A
10	387	26	251	29	248	39	1	49	249	A
11	362	25	261	33	250	41	4	53	254	A
12	337	25	262	33	250	41	4	53	254	A
13	312	25	265	35	252	43	4	55	256	A
14	287	27	268	36	252	45	6	54	258	A
15	262	28	266	37	251	46	6	54	256	A
16	237	29	263	37	247	46	6	53	253	A
17	212	29	262	38	248	48	6	53	253	A
18	187	29	261	36	250	46	4	51	254	A
19	162	28	257	36	255	45	1	52	256	A
20	137	25	263	34	258	42	2	54	260	A

Harmonic constants for constituent O1 for deployment NWSC1006.

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	612	11	15	9	44	13	3	39	26	C
02	587	11	17	8	42	13	3	38	26	C
03	562	10	17	8	44	13	3	37	27	C
04	537	11	15	8	45	13	3	34	24	C
05	512	11	13	8	43	13	3	35	23	C
06	487	11	13	8	36	13	3	38	22	C
07	462	10	13	7	39	12	3	35	22	C
08	437	9	15	7	49	11	3	35	26	C
09	412	11	14	7	45	13	3	33	24	C
10	387	12	10	6	35	14	3	26	15	C
11	362	13	10	7	36	14	3	27	16	C
12	337	13	9	7	42	14	3	25	16	C
13	312	13	3	7	43	14	4	23	10	C
14	287	12	360	7	41	13	4	28	10	C
15	262	11	4	6	46	12	4	23	12	C
16	237	10	357	4	26	11	2	21	1	C
17	212	11	357	5	16	12	1	25	1	C
18	187	10	359	10	32	13	4	43	15	C
19	162	8	356	9	58	10	6	56	37	C
20	137	9	11	9	53	11	4	44	31	C

NWSC1006 ADCP 1644

Harmonic constants for constituent K1 for deployment NWSC1006.

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	612	7	246	1	249	7	0	10	246	C
02	587	7	257	2	256	8	0	14	257	A
03	562	7	258	1	279	7	1	11	259	C
04	537	8	248	2	235	8	0	11	247	A
05	512	7	249	2	250	8	0	13	249	C
06	487	7	254	2	259	7	0	19	254	C
07	462	6	254	2	237	7	1	17	252	A
08	437	5	253	2	277	5	1	16	255	C
09	412	4	234	2	266	4	1	26	241	C
10	387	5	218	4	223	7	0	41	221	C
11	362	4	196	5	199	7	0	54	198	C
12	337	5	128	4	167	6	2	37	143	C
13	312	6	129	4	156	7	2	36	139	C
14	287	5	168	4	161	6	0	41	165	A
15	262	8	210	5	161	9	3	24	201	A
16	237	10	206	6	175	12	3	27	199	A
17	212	10	197	6	199	11	0	30	198	C
18	187	10	206	5	170	11	3	24	199	A
19	162	14	227	2	112	14	2	177	48	A
20	137	21	242	2	88	21	1	175	62	A

NWSC1006 AANDERAA 718

Deployment: NWSC1006 analyzed from beginning to end
 Instrument no.: 718
 Instrument type: Aanderaa
 Latitude: 60 34.000 N
 Longitude: 04 46.000 W
 Bottom depth: 1066
 Instrument depth: 754
 Number of records: 8416
 Time of first record: 2010 06 05 01 30
 Time of last record : 2011 05 21 16 30
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8416	0
Column 8 : Speed	8416	0
Column 9 : Direct	8416	0

Comments

Residual current: 64 mm/sec towards: 196 degrees

TIDAL ANALYSIS

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

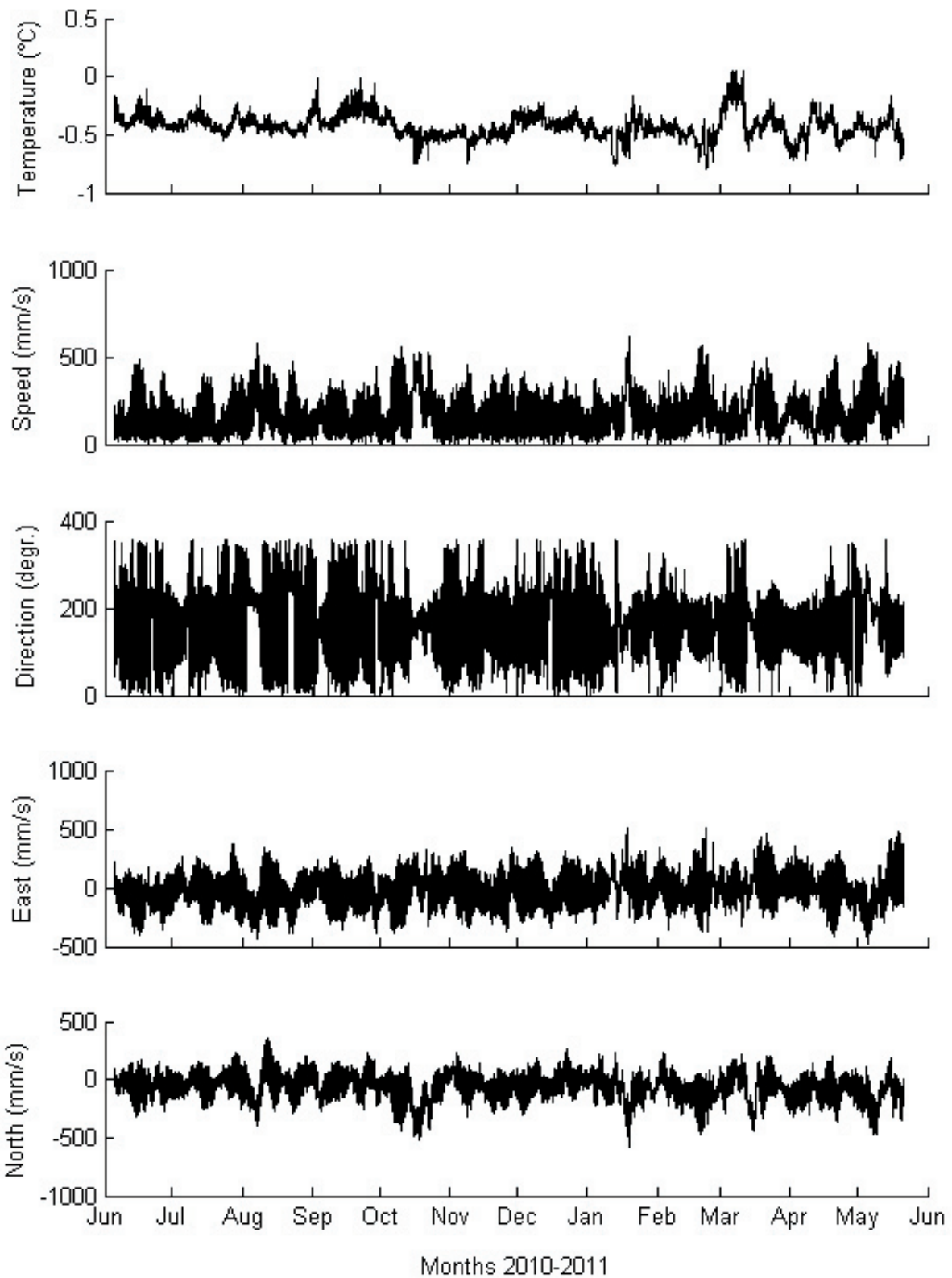
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	10	75	17	90	19	2	59	86	C
MSF	.00282193	5	26	15	86	15	5	79	83	C
Q1	.03721850	5	329	5	3	6	2	47	347	C
O1	.03873065	11	12	9	41	14	4	41	24	C
NO1	.04026859	2	94	1	120	2	0	35	102	C
P1	.04155259	3	246	1	300	3	1	11	249	C
K1	.04178075	7	252	2	303	7	2	11	254	C
N2	.07899925	35	223	15	226	38	1	22	223	C
M2	.08051140	163	256	102	249	192	11	32	254	A
L2	.08202355	5	107	5	309	7	1	135	298	A
S2	.08333334	48	299	45	303	65	3	43	301	C
K2	.08356149	15	295	13	301	20	1	42	298	C
MK3	.12229210	0	191	1	333	1	0	118	342	C
M4	.16102280	1	156	3	357	3	0	109	355	A
MS4	.16384470	0	63	2	15	2	0	85	16	A

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

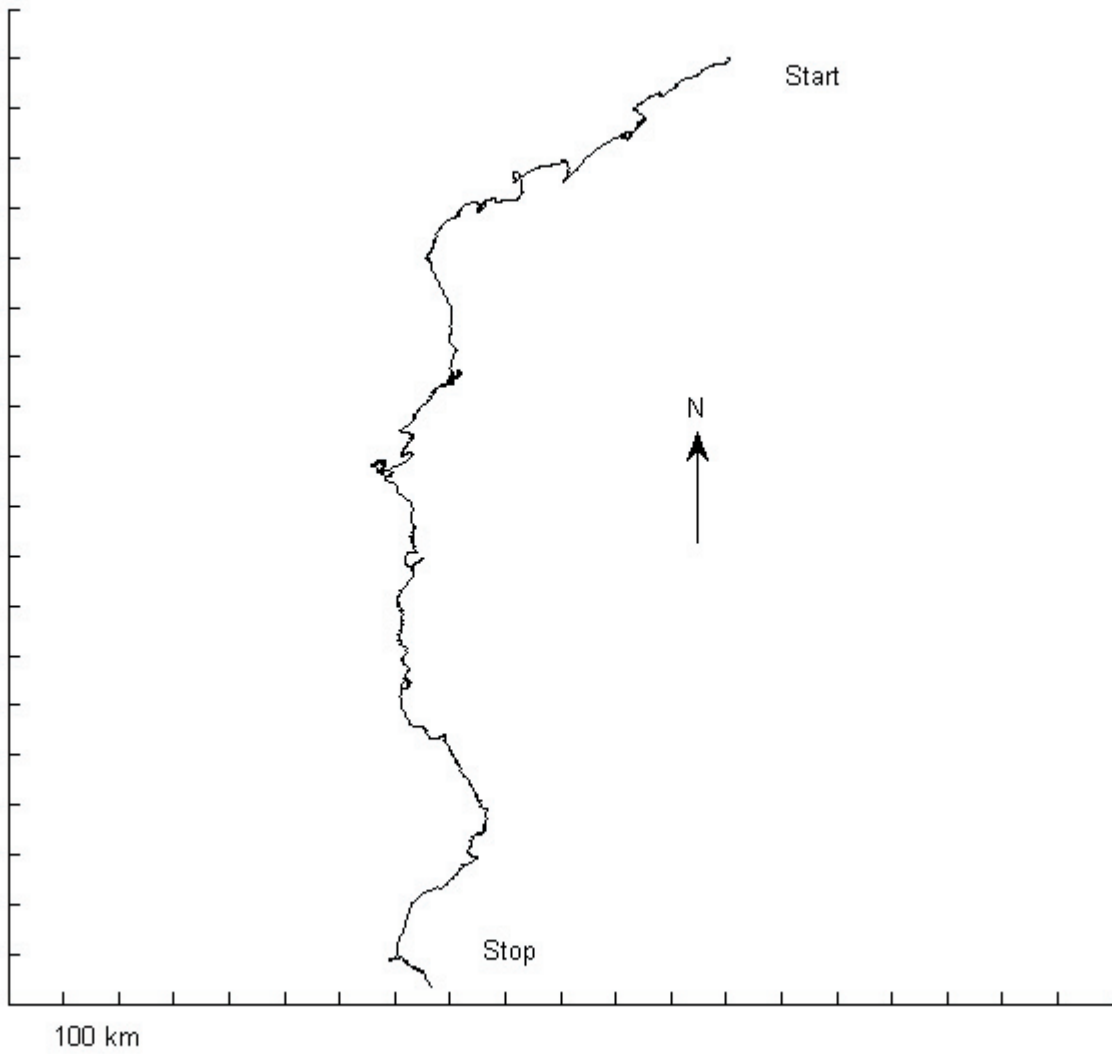
Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	10	10	9	8	9	8	6	10	8	7	4	6	95	95
50 - 100	11	21	21	20	13	16	20	23	23	10	7	7	189	285
100 - 150	8	24	29	16	13	13	21	34	26	8	3	4	199	484
150 - 200	4	21	27	13	8	8	21	41	26	3	1	1	172	656
200 - 300	2	20	29	15	5	10	30	77	29	2	0.24	0	218	874
300 - 400	0	5	9	4	3	5	11	40	10	0.12	0	0	88	961
400 - 500	0	1	2	2	3	4	5	14	2	0	0	0	33	994
500 - 600	0	0	0	0.36	0	0.12	1	4	0	0	0	0	6	1000
600 - 700	0	0	0	0	0	0	0.24	0	0	0	0	0	.24	1000
Total (ppt)	33	102	126	77	53	65	114	243	124	30	14	18		
Rel.flux (ppt)	18	91	123	68	45	61	126	316	121	17	6	7		
Avg.spd (mm/s)	93	156	169	153	147	164	192	227	170	99	75	71		
Max.spd (mm/s)	270	458	496	522	478	513	622	578	475	334	208	185		

NWSC1006 Aanderaa 718



NWSC1006 Aanderaa 718

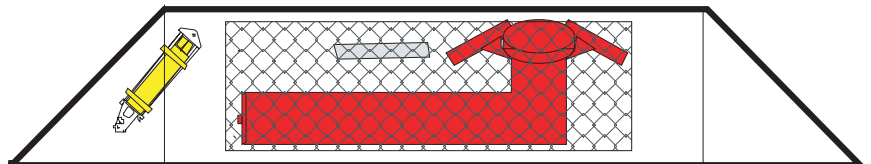


NWSX1006

Latitude: 60°51.510'N
Longitude: 005°30.120'W
Echo sounding depth: 540 m
Bottom depth corr.: 549 m
Time of deployment: 4/6 - 2010 2125 UTC
Time of recovery: 21/5 – 2011 1417 UTC

ADCP:

Instrument no.: RDI ADCP 3368
Instrument frequency: 75 kHz
Height above bottom: 1 m
Depth: 548 m (corr.)
Time of first data: 4/6 – 2010 2140 UTC
Time of last data: 21/5 – 2011 1400 UTC
Sample interval: 20 min
No. of ensembles: 25250
Pings per ens.: 10
Binlength: 10 m
Depth of first bin: 530 m (corr.)
No. of bins: 48



MicroCat:

Instrument no.: 0984
Height above bottom: 1 m
Time of first data: 4/6 – 2010 2150 UTC
Time of last data: 21/5 – 2011 1410 UTC
Sample interval: 10 min
No. of ensembles: 50499
Instrument depth: 548 m

Data:

The salinity from the MicroCat is uncalibrated and may have a drift.

NWSX1006 ADCP 3368

Error statistics for deployment: NWSX1006 updated 2011/10/31

 Surface distance not edited
 Depth edited by EVM in Sep 2011
 Heading, pitch and roll not edited
 Temperature edited by EVM in Sep 2011
 Velocity edited up to and including bin 48 by JMB in Oct 2011
 Intensity edited up to and including bin 48 by EVM in Sep 2011

Total number of ensembles: 25250
 Interval between ensembles: 20 min
 Original number of bins: 60
 Number of acceptable velocity bins: 48
 Number of acceptable intensity bins: 48

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 : 1
 Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. flgd	Velocity % flgd	Number of velocity gaps of length										
				1	2	3	4	5	6-10	11-20	21-30	31-50	>50	
1	0	33	0	33	0	0	0	0	0	0	0	0	0	0
2	0	25	0	23	1	0	0	0	0	0	0	0	0	0
3	0	11	0	11	0	0	0	0	0	0	0	0	0	0
4	0	14	0	14	0	0	0	0	0	0	0	0	0	0
5	0	15	0	15	0	0	0	0	0	0	0	0	0	0
6	0	27	0	25	1	0	0	0	0	0	0	0	0	0
7	0	14	0	14	0	0	0	0	0	0	0	0	0	0
8	0	18	0	18	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	19	0	19	0	0	0	0	0	0	0	0	0	0
11	0	29	0	29	0	0	0	0	0	0	0	0	0	0
12	0	28	0	26	1	0	0	0	0	0	0	0	0	0
13	0	36	0	36	0	0	0	0	0	0	0	0	0	0
14	0	26	0	26	0	0	0	0	0	0	0	0	0	0
15	0	37	0	37	0	0	0	0	0	0	0	0	0	0
16	0	39	0	39	0	0	0	0	0	0	0	0	0	0
17	0	37	0	37	0	0	0	0	0	0	0	0	0	0
18	0	44	0	44	0	0	0	0	0	0	0	0	0	0
19	0	33	0	33	0	0	0	0	0	0	0	0	0	0
20	0	35	0	35	0	0	0	0	0	0	0	0	0	0
21	0	57	0	57	0	0	0	0	0	0	0	0	0	0
22	0	58	0	58	0	0	0	0	0	0	0	0	0	0
23	0	70	0	68	1	0	0	0	0	0	0	0	0	0
24	0	53	0	53	0	0	0	0	0	0	0	0	0	0
25	0	35	0	35	0	0	0	0	0	0	0	0	0	0
26	0	54	0	54	0	0	0	0	0	0	0	0	0	0
27	0	84	0	84	0	0	0	0	0	0	0	0	0	0
28	0	154	1	154	0	0	0	0	0	0	0	0	0	0
29	0	79	0	77	1	0	0	0	0	0	0	0	0	0
30	0	93	0	93	0	0	0	0	0	0	0	0	0	0
31	0	80	0	76	2	0	0	0	0	0	0	0	0	0
32	0	126	0	121	1	1	0	0	0	0	0	0	0	0
33	0	143	1	125	6	0	0	0	1	0	0	0	0	0
34	0	161	1	147	4	0	0	0	1	0	0	0	0	0
35	0	199	1	165	12	2	1	0	0	0	0	0	0	0
36	0	204	1	172	8	1	2	1	0	0	0	0	0	0
37	0	234	1	191	12	5	1	0	0	0	0	0	0	0
38	0	243	1	194	7	3	4	0	1	0	0	0	0	0
39	0	281	1	208	20	9	0	0	1	0	0	0	0	0
40	0	357	1	247	28	9	2	0	3	0	0	0	0	0
41	0	455	2	290	26	16	3	3	3	1	0	0	0	0
42	0	555	2	342	43	8	7	2	4	1	1	0	0	0
43	0	829	3	446	63	26	10	5	5	4	1	0	0	0
44	0	1599	6	382	49	16	11	4	22	22	15	4	0	0
45	0	2541	10	336	40	21	17	9	36	26	27	11	2	2
46	0	2979	12	404	58	32	10	17	38	35	28	13	2	2
47	0	4477	18	387	50	38	21	19	42	45	30	35	6	6
48	0	6346	25	487	57	39	26	21	62	69	28	56	12	12

NWSX1006 ADCP 3368

Deployment: NWSX1006 updated 2011/10/31
 Instrument no.: 3368
 Instrument freq.: 75
 Latitude: 60 51.510 N
 Longitude: 05 30.120 W
 Bottom depth: 549
 Instrument depth: 548
 Center depth of first bin: 530
 Bin length: 10
 Number of bins: 48
 Number of first ensemble: 258
 Time of first ensemble: 2010 06 04 21 40
 Number of last ensemble: 25507
 Time of last ensemble: 2011 05 21 14 00
 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	530	19	238	73	192	999
2	520	29	254	78	196	999
3	510	39	263	79	200	1000
4	500	49	269	80	203	999
5	490	59	272	79	206	999
6	480	69	273	78	209	999
7	470	79	273	77	211	999
8	460	89	272	77	214	999
9	450	99	271	76	216	999
10	440	109	270	76	218	999
11	430	119	268	76	220	999
12	420	129	265	75	221	999
13	410	139	262	76	223	999
14	400	149	259	75	224	999
15	390	159	255	75	225	999
16	380	169	252	76	226	998
17	370	179	248	77	227	999
18	360	189	244	80	227	998
19	350	199	241	82	227	999
20	340	209	238	84	228	999
21	330	219	235	86	229	998
22	320	229	234	88	229	998
23	310	239	231	88	229	997
24	300	249	228	88	230	998
25	290	259	225	88	230	999
26	280	269	223	88	230	998
27	270	279	222	87	231	997
28	260	289	221	88	231	994
29	250	299	221	89	232	997
30	240	309	221	91	232	996
31	230	319	221	92	232	997
32	220	329	221	93	232	995
33	210	339	221	93	232	994
34	200	349	220	93	232	994
35	190	359	220	92	232	992
36	180	369	219	90	232	992
37	170	379	219	88	231	991
38	160	389	220	88	231	990
39	150	399	221	87	231	989
40	140	409	221	86	231	986
41	130	419	223	85	231	982
42	120	429	222	82	231	978
43	110	439	223	80	232	967
44	100	449	222	78	232	937
45	90	459	222	75	232	899
46	80	469	223	74	231	882
47	70	479	224	73	231	823
48	60	489	225	71	230	749

NWSX1006 ADCP 3368

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 no.	Depth m	Speed (cm/s)																	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1	530	850	573	302	122	34	6	0	0	0	0	0	0	0	0	0	0	0	0
2	520	869	607	348	157	52	13	1	0	0	0	0	0	0	0	0	0	0	0
3	510	879	628	370	175	61	16	2	0	0	0	0	0	0	0	0	0	0	0
4	500	888	639	387	187	68	19	3	0	0	0	0	0	0	0	0	0	0	0
5	490	895	647	397	191	72	19	3	0	0	0	0	0	0	0	0	0	0	0
6	480	898	650	396	197	72	19	3	0	0	0	0	0	0	0	0	0	0	0
7	470	897	652	394	193	72	20	3	0	0	0	0	0	0	0	0	0	0	0
8	460	900	650	391	192	74	21	3	0	0	0	0	0	0	0	0	0	0	0
9	450	895	647	385	190	72	22	4	0	0	0	0	0	0	0	0	0	0	0
10	440	895	645	380	186	71	21	4	1	0	0	0	0	0	0	0	0	0	0
11	430	896	638	376	179	70	20	4	1	0	0	0	0	0	0	0	0	0	0
12	420	893	630	367	174	66	19	3	1	0	0	0	0	0	0	0	0	0	0
13	410	892	623	354	168	64	19	3	1	0	0	0	0	0	0	0	0	0	0
14	400	889	616	343	160	61	16	3	1	0	0	0	0	0	0	0	0	0	0
15	390	886	605	336	153	57	14	3	1	0	0	0	0	0	0	0	0	0	0
16	380	874	595	327	149	54	14	4	0	0	0	0	0	0	0	0	0	0	0
17	370	868	587	314	141	51	14	4	1	0	0	0	0	0	0	0	0	0	0
18	360	865	573	302	132	46	14	4	1	0	0	0	0	0	0	0	0	0	0
19	350	862	561	295	127	44	15	5	1	0	0	0	0	0	0	0	0	0	0
20	340	858	553	288	122	44	15	5	1	0	0	0	0	0	0	0	0	0	0
21	330	850	543	275	117	43	16	5	1	0	0	0	0	0	0	0	0	0	0
22	320	849	535	272	113	43	16	5	1	0	0	0	0	0	0	0	0	0	0
23	310	844	527	263	107	42	15	5	1	0	0	0	0	0	0	0	0	0	0
24	300	841	523	256	102	40	14	4	1	0	0	0	0	0	0	0	0	0	0
25	290	837	513	250	98	37	14	4	1	0	0	0	0	0	0	0	0	0	0
26	280	832	506	245	95	36	13	4	1	1	0	0	0	0	0	0	0	0	0
27	270	829	498	242	93	32	13	4	2	1	0	0	0	0	0	0	0	0	0
28	260	828	496	236	91	34	12	5	1	1	0	0	0	0	0	0	0	0	0
29	250	830	499	233	91	34	14	5	2	1	0	0	0	0	0	0	0	0	0
30	240	828	503	237	91	33	13	5	2	1	0	0	0	0	0	0	0	0	0
31	230	830	501	236	90	35	13	6	2	1	0	0	0	0	0	0	0	0	0
32	220	828	498	234	91	35	14	6	2	1	0	0	0	0	0	0	0	0	0
33	210	825	493	232	91	36	14	7	2	1	0	0	0	0	0	0	0	0	0
34	200	820	490	230	91	36	15	7	3	1	0	0	0	0	0	0	0	0	0
35	190	816	489	229	92	37	15	6	2	1	0	0	0	0	0	0	0	0	0
36	180	814	486	229	93	37	15	6	2	1	0	0	0	0	0	0	0	0	0
37	170	815	487	226	93	36	15	6	2	0	0	0	0	0	0	0	0	0	0
38	160	816	488	232	94	36	15	5	2	0	0	0	0	0	0	0	0	0	0
39	150	819	491	230	93	37	15	6	2	0	0	0	0	0	0	0	0	0	0
40	140	818	489	230	92	37	15	5	2	0	0	0	0	0	0	0	0	0	0
41	130	820	497	231	94	36	15	6	2	0	0	0	0	0	0	0	0	0	0
42	120	815	497	230	94	35	14	5	2	0	0	0	0	0	0	0	0	0	0
43	110	807	489	231	94	35	13	5	1	0	0	0	0	0	0	0	0	0	0
44	100	782	472	220	90	33	13	5	1	0	0	0	0	0	0	0	0	0	0
45	90	753	451	212	87	32	12	5	2	0	0	0	0	0	0	0	0	0	0
46	80	740	444	211	85	32	13	6	2	0	0	0	0	0	0	0	0	0	0
47	70	690	414	195	80	31	13	6	2	1	0	0	0	0	0	0	0	0	0
48	60	625	378	181	74	29	14	6	2	1	0	0	0	0	0	0	0	0	0

NWSX1006 ADCP 3368

Harmonic constants for constituent M2 for deployment NWSX1006.

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	530	225	245	120	207	246	68	25	238	A
02	520	246	247	130	202	265	84	23	239	A
03	510	258	247	137	200	277	93	23	239	A
04	500	266	248	145	200	286	100	23	240	A
05	490	270	249	152	201	292	105	24	240	A
06	480	273	250	157	201	295	108	24	240	A
07	470	273	250	161	203	297	109	25	240	A
08	460	273	251	165	204	299	110	26	241	A
09	450	271	252	167	206	299	110	27	241	A
10	440	268	253	168	207	297	109	28	242	A
11	430	265	254	168	209	295	107	28	243	A
12	420	262	254	169	210	293	105	29	243	A
13	410	258	255	169	212	291	102	30	244	A
14	400	252	256	168	214	287	99	30	244	A
15	390	248	256	166	216	283	95	31	245	A
16	380	241	256	165	218	278	90	32	245	A
17	370	234	257	161	219	271	85	32	245	A
18	360	227	257	157	221	265	79	33	246	A
19	350	222	257	154	223	259	74	33	246	A
20	340	217	257	150	224	254	69	33	247	A
21	330	212	257	147	226	250	64	33	247	A
22	320	208	256	144	227	246	59	33	247	A
23	310	204	256	139	228	241	55	33	247	A
24	300	200	255	137	229	237	51	33	247	A
25	290	197	255	134	230	234	48	33	248	A
26	280	194	255	132	232	231	44	33	248	A
27	270	191	255	130	232	228	41	33	248	A
28	260	188	255	130	234	225	39	34	248	A
29	250	187	254	128	234	224	37	34	248	A
30	240	186	254	126	235	222	35	34	248	A
31	230	184	254	125	235	219	34	34	248	A
32	220	181	253	122	235	216	31	33	248	A
33	210	179	253	120	236	213	30	33	248	A
34	200	178	253	118	236	211	28	33	248	A
35	190	176	253	116	237	209	26	33	248	A
36	180	174	252	116	238	208	24	33	248	A
37	170	172	252	115	239	206	23	33	248	A
38	160	172	252	114	240	205	21	33	248	A
39	150	171	252	114	240	205	20	34	248	A
40	140	169	252	114	241	203	18	34	248	A
41	130	169	252	114	241	203	18	34	248	A
42	120	168	252	114	242	202	17	34	249	A
43	110	166	253	114	243	201	16	34	249	A
44	100	166	252	113	243	200	14	34	250	A
45	90	164	252	112	244	198	13	34	249	A
46	80	161	251	110	244	194	11	34	249	A
47	70	156	250	108	244	190	9	35	248	A
48	60	152	249	108	245	186	7	35	248	A

NWSX1006 ADCP 3368

Harmonic constants for constituent S2 for deployment NWSX1006.

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	530	74	285	46	252	84	22	30	276	A
02	520	82	286	48	248	91	26	28	277	A
03	510	87	287	51	244	96	32	26	278	A
04	500	91	288	53	242	100	35	26	278	A
05	490	94	288	54	242	102	36	25	279	A
06	480	95	289	55	243	104	36	25	280	A
07	470	97	289	55	244	106	36	25	280	A
08	460	95	290	56	246	105	36	26	280	A
09	450	95	290	57	247	105	35	27	281	A
10	440	94	291	58	248	104	35	28	281	A
11	430	92	291	57	251	103	33	28	281	A
12	420	89	291	56	253	100	31	29	282	A
13	410	87	292	54	255	98	29	29	283	A
14	400	84	292	53	258	96	26	30	283	A
15	390	83	292	52	260	95	24	30	283	A
16	380	81	291	51	263	93	21	31	284	A
17	370	78	291	50	266	91	18	31	284	A
18	360	76	290	50	267	90	17	32	283	A
19	350	74	288	48	269	87	13	33	282	A
20	340	71	287	49	269	85	12	34	281	A
21	330	69	286	48	269	84	12	35	281	A
22	320	69	287	49	270	84	12	35	281	A
23	310	69	288	49	272	83	11	35	283	A
24	300	69	289	49	273	84	11	35	284	A
25	290	70	291	48	274	84	12	34	285	A
26	280	71	292	48	273	85	13	34	286	A
27	270	70	292	48	272	84	14	34	286	A
28	260	71	293	48	273	84	14	34	287	A
29	250	70	293	47	273	83	14	33	287	A
30	240	69	293	46	272	82	14	33	287	A
31	230	68	294	45	273	81	14	33	287	A
32	220	68	295	45	275	81	14	33	289	A
33	210	68	296	45	276	81	13	33	290	A
34	200	69	297	47	278	82	13	33	291	A
35	190	69	297	47	280	82	12	34	292	A
36	180	68	297	46	280	81	12	34	292	A
37	170	67	297	46	282	80	10	34	292	A
38	160	67	297	45	282	80	9	33	292	A
39	150	66	295	45	283	79	8	34	291	A
40	140	65	293	42	284	77	6	33	290	A
41	130	63	292	41	283	75	6	33	289	A
42	120	61	291	40	284	73	4	33	289	A
43	110	60	289	38	285	71	2	32	288	A
44	100	57	288	38	286	69	1	33	288	A
45	90	57	289	40	287	69	1	35	288	A
46	80	55	289	40	288	68	1	36	289	A
47	70	54	289	43	288	69	1	38	289	A
48	60	50	291	43	287	66	2	41	289	A

NWSX1006 ADCP 3368

Harmonic constants for constituent N2 for deployment NWSX1006.

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	530	43	205	13	160	45	9	13	203	A
02	520	46	206	15	157	48	11	13	203	A
03	510	48	207	17	160	50	12	14	204	A
04	500	49	209	17	159	50	13	14	205	A
05	490	49	210	18	162	51	13	15	206	A
06	480	51	211	18	162	52	13	14	207	A
07	470	51	213	19	162	53	14	14	209	A
08	460	52	214	20	159	53	16	14	210	A
09	450	55	216	22	161	57	18	15	211	A
10	440	57	217	26	163	59	20	17	211	A
11	430	57	219	28	166	60	21	19	212	A
12	420	57	221	29	169	60	22	20	214	A
13	410	56	222	30	173	60	21	22	214	A
14	400	55	225	31	177	59	21	24	216	A
15	390	54	227	31	180	59	21	25	217	A
16	380	54	228	32	185	60	20	26	219	A
17	370	53	229	34	187	60	20	29	219	A
18	360	52	229	36	188	60	20	32	217	A
19	350	51	230	38	189	60	21	34	216	A
20	340	50	232	37	192	59	20	34	219	A
21	330	49	234	36	196	58	19	34	222	A
22	320	47	235	35	200	56	17	35	223	A
23	310	44	236	35	203	54	16	37	224	A
24	300	42	238	35	207	53	14	39	225	A
25	290	41	239	34	210	52	13	39	228	A
26	280	40	242	35	212	51	13	40	229	A
27	270	40	243	34	215	51	13	40	231	A
28	260	40	243	34	216	51	12	40	232	A
29	250	40	243	34	217	51	12	40	232	A
30	240	40	244	33	218	51	12	39	234	A
31	230	40	245	33	219	50	12	38	235	A
32	220	40	244	32	220	51	11	38	235	A
33	210	40	243	33	220	51	10	39	234	A
34	200	40	242	33	220	50	10	39	234	A
35	190	38	241	31	220	49	9	39	233	A
36	180	37	241	30	220	47	9	38	233	A
37	170	37	240	29	220	46	8	38	232	A
38	160	37	241	29	223	46	7	38	234	A
39	150	37	241	29	223	46	7	37	234	A
40	140	37	241	29	223	46	7	38	234	A
41	130	36	240	29	225	46	6	39	234	A
42	120	35	242	29	227	45	6	39	236	A
43	110	34	242	29	230	44	5	40	237	A
44	100	32	242	29	234	43	3	42	238	A
45	90	30	243	29	238	42	2	45	241	A
46	80	29	242	29	240	41	1	45	241	A
47	70	27	244	30	244	41	0	48	244	A
48	60	26	242	29	240	39	1	47	241	A

NWSX1006 ADCP 3368

Harmonic constants for constituent O1 for deployment NWSX1006.

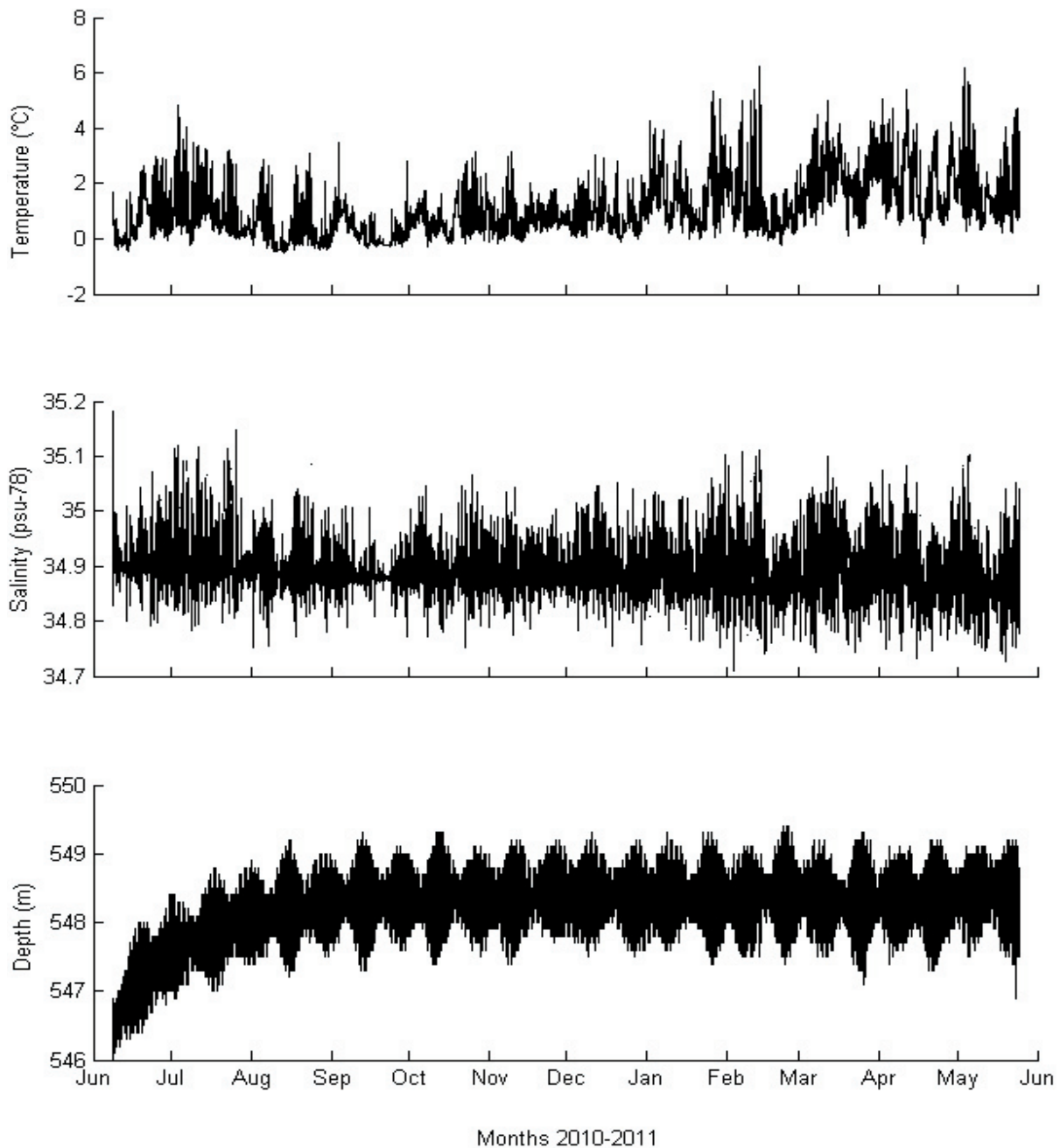
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	530	70	331	12	351	71	4	9	332	C
02	520	70	330	9	2	71	5	6	331	C
03	510	67	328	9	21	68	7	5	328	C
04	500	65	327	9	33	65	9	3	327	C
05	490	62	325	12	41	62	11	3	326	C
06	480	60	323	12	44	60	12	2	324	C
07	470	57	322	13	52	57	13	0	322	C
08	460	55	321	13	52	55	13	180	141	C
09	450	53	319	13	56	53	13	178	139	C
10	440	51	317	13	65	51	12	176	136	C
11	430	47	316	13	73	48	12	172	134	C
12	420	45	315	14	79	46	12	169	132	C
13	410	44	313	14	82	45	11	168	130	C
14	400	44	308	13	91	45	8	166	126	C
15	390	41	306	11	102	43	4	167	125	C
16	380	41	305	9	113	42	2	167	125	C
17	370	40	304	9	117	41	1	167	124	C
18	360	39	303	10	124	41	0	166	123	A
19	350	39	303	11	126	40	1	164	123	A
20	340	37	302	12	134	39	2	163	123	A
21	330	37	302	12	136	39	3	163	123	A
22	320	36	299	13	139	38	4	161	121	A
23	310	37	298	13	139	39	5	161	120	A
24	300	37	298	13	144	39	5	162	120	A
25	290	37	296	13	150	38	7	163	119	A
26	280	36	296	14	148	38	7	161	120	A
27	270	36	295	15	151	38	8	161	120	A
28	260	35	296	16	149	38	8	159	121	A
29	250	36	297	15	150	38	8	160	122	A
30	240	35	298	14	153	37	8	161	122	A
31	230	35	297	14	151	37	8	160	121	A
32	220	35	295	15	148	37	8	160	120	A
33	210	33	296	14	148	35	7	159	120	A
34	200	33	297	14	146	35	6	159	121	A
35	190	33	297	13	142	35	5	160	120	A
36	180	31	299	13	141	34	5	158	122	A
37	170	32	301	13	139	35	4	159	123	A
38	160	31	302	13	133	34	2	158	124	A
39	150	31	302	13	132	34	2	158	123	A
40	140	30	302	13	135	33	3	157	124	A
41	130	30	302	13	137	33	3	157	124	A
42	120	30	302	13	138	33	3	157	125	A
43	110	30	303	13	137	32	3	157	125	A
44	100	31	306	12	130	33	1	158	126	A
45	90	30	305	12	125	32	0	158	125	A
46	80	29	306	11	122	31	1	160	125	C
47	70	28	301	11	104	30	3	159	119	C
48	60	29	301	11	105	31	3	159	119	C

NWSX1006 ADCP 3368

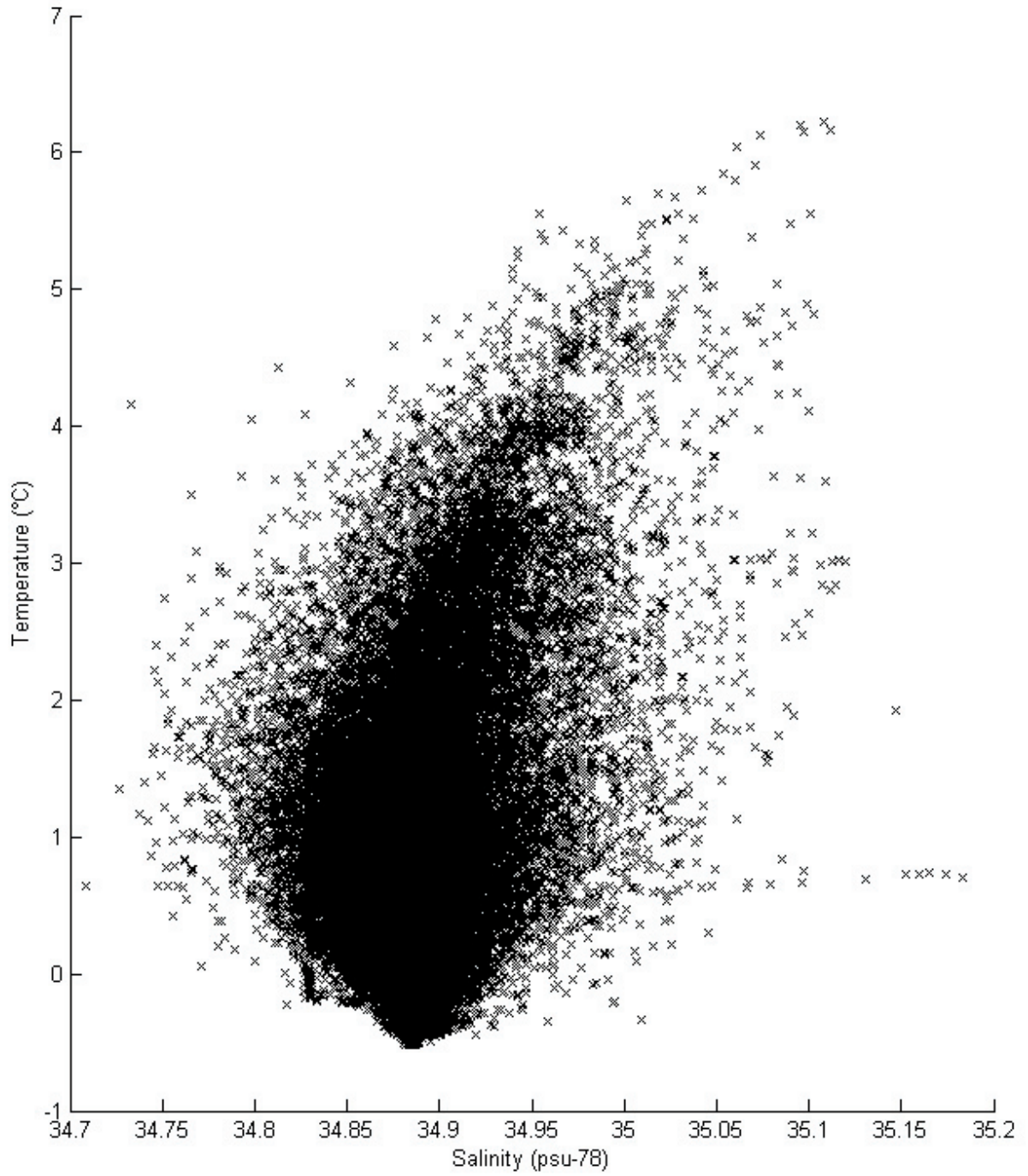
Harmonic constants for constituent K1 for deployment NWSX1006.

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	530	54	216	11	186	55	5	10	215	A
02	520	55	215	6	176	55	4	5	214	A
03	510	54	211	3	202	54	0	3	211	A
04	500	50	209	3	281	50	3	1	209	C
05	490	47	207	4	309	47	4	179	26	C
06	480	44	204	4	320	44	4	177	24	C
07	470	42	202	5	328	42	4	176	21	C
08	460	39	199	5	333	39	3	175	18	C
09	450	37	196	5	350	37	2	173	15	C
10	440	35	194	5	350	36	2	173	13	C
11	430	34	193	6	357	34	2	171	12	C
12	420	31	190	7	355	32	2	168	10	C
13	410	28	187	8	357	29	1	165	7	C
14	400	26	182	8	7	27	1	162	3	A
15	390	26	177	9	14	27	2	161	359	A
16	380	26	170	10	24	27	5	162	354	A
17	370	26	165	10	35	27	7	166	349	A
18	360	27	159	11	46	27	10	169	343	A
19	350	28	154	12	55	28	12	176	335	A
20	340	28	150	13	62	28	13	1	149	A
21	330	29	148	12	69	29	12	6	146	A
22	320	30	146	13	73	30	12	8	143	A
23	310	29	147	13	71	29	12	7	144	A
24	300	28	149	13	70	28	12	6	147	A
25	290	27	152	14	71	28	14	6	149	A
26	280	27	156	15	70	27	15	3	154	A
27	270	26	160	16	67	26	16	178	341	A
28	260	26	162	17	70	26	17	179	342	A
29	250	27	164	17	70	27	17	176	347	A
30	240	27	164	16	71	27	16	178	345	A
31	230	27	164	16	73	27	16	179	345	A
32	220	27	160	16	73	27	16	3	159	A
33	210	26	159	15	72	26	15	2	158	A
34	200	27	160	15	69	27	15	179	340	A
35	190	28	162	15	71	28	15	179	342	A
36	180	27	163	15	66	27	14	175	346	A
37	170	26	163	13	64	26	13	173	347	A
38	160	25	166	12	60	26	11	171	350	A
39	150	24	167	11	61	24	11	171	351	A
40	140	24	170	12	56	24	10	166	357	A
41	130	24	170	12	52	25	10	163	357	A
42	120	24	173	12	42	25	8	160	360	A
43	110	25	177	12	38	26	7	159	3	A
44	100	23	180	11	26	25	4	156	4	A
45	90	22	183	10	9	24	1	155	4	A
46	80	23	188	10	11	25	0	156	9	A
47	70	24	197	9	351	25	4	160	14	C
48	60	28	200	10	343	29	6	163	16	C

NWSX1006 MicroCat 0984



NWSX1006 MicroCat 0984



NWSY1006

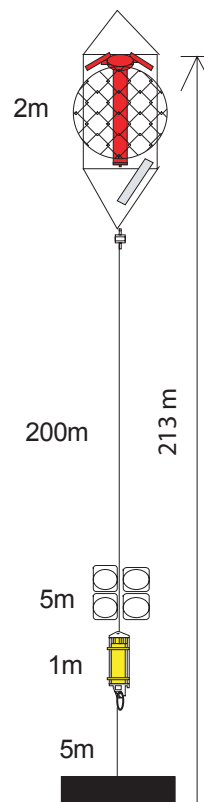
Latitude: 60°42.900'N
Longitude: 005°04.900'W
Echo sounding depth: 914 m
Bottom depth corr.: 908 m
Time of deployment: 4/6 – 2010 2342 UTC
Time of recovery: 21/5 – 2011 1622 UTC

ADCP:

Instrument no.: RDI ADCP 8552
Instrument frequency: 75 kHz
Height above bottom: 213 m
Depth: 695 m (corr.)
Time of first data: 5/6 – 2010 0020 UTC
Time of last data: 21/5 – 2011 1600 UTC
Sample interval: 20 min
No. of ensembles: 25248
Pings per ens.: 10
Binlength: 10 m
Depth of first bin: 677 m (corr.)
No. of bins: 61

Data:

All data ok.



NWSY1006 ADCP 8552

Error statistics for deployment: NWSY1006 updated 2011/11/04

 Surface distance not edited
 Depth edited by EVM in Sep 2011
 Heading, pitch and roll not edited
 Temperature edited by EVM in Sep 2011
 Velocity edited up to and including bin 61 by AKL in Nov 2011
 Intensity edited up to and including bin 61 by EVM in Sep 2011

Total number of ensembles: 25248
 Interval between ensembles: 20 min
 Original number of bins: 70
 Number of acceptable velocity bins: 61
 Number of acceptable intensity bins: 61

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 : 1
 Number of temperature ens. flagged: 0

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

Bin	Int. ens. flgd	Velocity ens. % flgd	Number of velocity gaps of length											
			1	2	3	4	5	6-10	11-20	21-30	31-50	>50		
1	0	87	0	87	0	0	0	0	0	0	0	0	0	0
2	0	73	0	73	0	0	0	0	0	0	0	0	0	0
3	0	120	0	115	1	1	0	0	0	0	0	0	0	0
4	0	98	0	96	1	0	0	0	0	0	0	0	0	0
5	0	81	0	81	0	0	0	0	0	0	0	0	0	0
6	0	93	0	91	1	0	0	0	0	0	0	0	0	0
7	0	101	0	101	0	0	0	0	0	0	0	0	0	0
8	0	111	0	109	1	0	0	0	0	0	0	0	0	0
9	0	128	1	128	0	0	0	0	0	0	0	0	0	0
10	0	91	0	91	0	0	0	0	0	0	0	0	0	0
11	0	88	0	88	0	0	0	0	0	0	0	0	0	0
12	0	101	0	101	0	0	0	0	0	0	0	0	0	0
13	0	92	0	92	0	0	0	0	0	0	0	0	0	0
14	0	93	0	93	0	0	0	0	0	0	0	0	0	0
15	0	101	0	101	0	0	0	0	0	0	0	0	0	0
16	0	67	0	67	0	0	0	0	0	0	0	0	0	0
17	0	77	0	77	0	0	0	0	0	0	0	0	0	0
18	0	78	0	78	0	0	0	0	0	0	0	0	0	0
19	0	73	0	73	0	0	0	0	0	0	0	0	0	0
20	0	89	0	89	0	0	0	0	0	0	0	0	0	0
21	0	90	0	90	0	0	0	0	0	0	0	0	0	0
22	0	74	0	74	0	0	0	0	0	0	0	0	0	0
23	0	121	0	121	0	0	0	0	0	0	0	0	0	0
24	0	95	0	95	0	0	0	0	0	0	0	0	0	0
25	0	81	0	81	0	0	0	0	0	0	0	0	0	0
26	0	73	0	73	0	0	0	0	0	0	0	0	0	0
27	0	93	0	93	0	0	0	0	0	0	0	0	0	0
28	0	79	0	79	0	0	0	0	0	0	0	0	0	0
29	0	110	0	108	1	0	0	0	0	0	0	0	0	0
30	0	81	0	81	0	0	0	0	0	0	0	0	0	0
31	0	60	0	58	1	0	0	0	0	0	0	0	0	0
32	0	86	0	86	0	0	0	0	0	0	0	0	0	0
33	0	84	0	84	0	0	0	0	0	0	0	0	0	0
34	0	82	0	82	0	0	0	0	0	0	0	0	0	0
35	0	80	0	78	1	0	0	0	0	0	0	0	0	0
36	0	72	0	72	0	0	0	0	0	0	0	0	0	0
37	0	74	0	74	0	0	0	0	0	0	0	0	0	0
38	0	76	0	74	1	0	0	0	0	0	0	0	0	0
39	0	78	0	78	0	0	0	0	0	0	0	0	0	0
40	0	70	0	68	1	0	0	0	0	0	0	0	0	0
41	0	87	0	87	0	0	0	0	0	0	0	0	0	0
42	0	97	0	95	1	0	0	0	0	0	0	0	0	0
43	0	99	0	97	1	0	0	0	0	0	0	0	0	0
44	0	88	0	88	0	0	0	0	0	0	0	0	0	0
45	0	143	1	108	4	1	1	0	2	0	0	0	0	0
46	0	185	1	109	7	1	0	0	2	3	0	0	0	0
47	0	276	1	157	8	5	1	3	0	4	0	0	0	0
48	0	368	1	165	12	9	2	3	4	5	1	0	0	0
49	0	499	2	172	19	9	5	2	8	7	3	0	0	0
50	0	746	3	243	29	12	8	5	9	7	7	0	0	0
51	0	1062	4	266	48	14	13	13	12	8	6	5	0	0
52	0	1432	6	369	63	23	10	10	20	11	8	7	0	0
53	0	1911	8	441	72	30	19	8	27	19	12	9	0	0
54	0	2381	9	416	78	34	13	15	32	24	19	14	0	0
55	0	3046	12	445	78	32	21	11	35	30	19	25	1	0
56	0	3598	14	486	99	35	15	14	26	32	22	39	0	0
57	0	4646	18	610	102	47	21	16	37	36	30	46	3	0
58	0	6143	24	475	80	32	20	12	52	55	38	67	7	0
59	0	8729	35	606	124	81	47	26	69	74	38	84	19	0
60	0	11401	45	578	138	87	48	40	82	81	61	67	32	0
61	0	13465	53	707	129	82	55	42	82	56	64	72	34	0

NWSY1006 ADCP 8552

Deployment: NWSY1006 updated 2011/11/04
 Instrument no.: 8552
 Instrument freq.: 75
 Latitude: 60 42.900 N
 Longitude: 05 04.900 W
 Bottom depth: 908
 Instrument depth: 695
 Center depth of first bin: 677
 Bin length: 10
 Number of bins: 61
 Number of first ensemble: 257
 Time of first ensemble: 2010 06 05 00 20
 Number of last ensemble: 25504
 Time of last ensemble: 2011 05 21 16 00
 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	677	231	200	32	190	997
2	667	241	200	32	190	997
3	657	251	200	33	189	995
4	647	261	199	33	189	996
5	637	271	199	33	189	997
6	627	281	199	33	188	996
7	617	291	199	33	187	996
8	607	301	199	33	187	996
9	597	311	198	33	186	995
10	587	321	198	33	186	996
11	577	331	197	33	184	997
12	567	341	196	33	183	996
13	557	351	195	33	182	996
14	547	361	194	34	182	996
15	537	371	192	34	182	996
16	527	381	189	35	183	997
17	517	391	187	36	183	997
18	507	401	185	36	182	997
19	497	411	183	37	180	997
20	487	421	182	38	179	996
21	477	431	181	39	179	996
22	467	441	180	40	179	997
23	457	451	180	40	179	995
24	447	461	180	41	179	996
25	437	471	180	42	179	997
26	427	481	181	44	178	997
27	417	491	183	45	178	996
28	407	501	186	47	177	997
29	397	511	189	48	177	996
30	387	521	191	50	177	997
31	377	531	194	51	176	998
32	367	541	198	51	175	997
33	357	551	202	50	174	997
34	347	561	205	49	173	997
35	337	571	209	48	172	997
36	327	581	213	47	170	997
37	317	591	216	46	169	997
38	307	601	220	46	166	997
39	297	611	223	45	163	997
40	287	621	225	44	160	997
41	277	631	229	43	157	997
42	267	641	232	44	154	996
43	257	651	235	44	153	996
44	247	661	239	44	151	997
45	237	671	241	44	149	994
46	227	681	244	45	148	993
47	217	691	247	45	146	989
48	207	701	250	45	145	985
49	197	711	254	46	142	980
50	187	721	257	46	141	970
51	177	731	260	47	138	958
52	167	741	262	48	135	943
53	157	751	265	48	133	924
54	147	761	268	49	131	906
55	137	771	272	49	126	879
56	127	781	276	51	124	857
57	117	791	280	52	120	816
58	107	801	285	55	117	757
59	97	811	290	61	109	654
60	87	821	300	64	102	548
61	77	831	307	78	94	467

NWSY1006 ADCP 8552

Frequency of high speeds.

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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
1 677	842	460	163	34	3	0	0	0	0	0	0	0	0	0	0	0	0	0
2 667	842	466	160	33	3	0	0	0	0	0	0	0	0	0	0	0	0	0
3 657	840	462	160	32	4	0	0	0	0	0	0	0	0	0	0	0	0	0
4 647	840	459	158	32	4	0	0	0	0	0	0	0	0	0	0	0	0	0
5 637	839	457	157	34	4	0	0	0	0	0	0	0	0	0	0	0	0	0
6 627	838	457	155	33	3	0	0	0	0	0	0	0	0	0	0	0	0	0
7 617	837	457	157	32	3	0	0	0	0	0	0	0	0	0	0	0	0	0
8 607	838	460	158	31	3	0	0	0	0	0	0	0	0	0	0	0	0	0
9 597	837	452	154	31	3	0	0	0	0	0	0	0	0	0	0	0	0	0
10 587	839	452	153	30	3	0	0	0	0	0	0	0	0	0	0	0	0	0
11 577	835	451	150	30	4	0	0	0	0	0	0	0	0	0	0	0	0	0
12 567	829	445	151	30	3	0	0	0	0	0	0	0	0	0	0	0	0	0
13 557	828	441	146	30	3	0	0	0	0	0	0	0	0	0	0	0	0	0
14 547	823	435	144	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0
15 537	814	428	140	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0
16 527	811	421	135	27	3	0	0	0	0	0	0	0	0	0	0	0	0	0
17 517	802	410	130	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0
18 507	794	400	127	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0
19 497	790	392	121	25	3	0	0	0	0	0	0	0	0	0	0	0	0	0
20 487	788	381	121	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0
21 477	781	380	121	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0
22 467	780	377	122	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0
23 457	774	374	122	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0
24 447	770	370	120	27	3	0	0	0	0	0	0	0	0	0	0	0	0	0
25 437	770	372	122	27	4	0	0	0	0	0	0	0	0	0	0	0	0	0
26 427	774	378	129	28	4	0	0	0	0	0	0	0	0	0	0	0	0	0
27 417	776	386	133	32	4	0	0	0	0	0	0	0	0	0	0	0	0	0
28 407	788	396	140	34	4	0	0	0	0	0	0	0	0	0	0	0	0	0
29 397	790	407	147	39	6	1	0	0	0	0	0	0	0	0	0	0	0	0
30 387	792	412	155	43	8	1	0	0	0	0	0	0	0	0	0	0	0	0
31 377	796	417	167	49	10	1	0	0	0	0	0	0	0	0	0	0	0	0
32 367	804	432	175	54	12	2	0	0	0	0	0	0	0	0	0	0	0	0
33 357	812	449	179	58	15	3	0	0	0	0	0	0	0	0	0	0	0	0
34 347	816	460	191	63	17	3	0	0	0	0	0	0	0	0	0	0	0	0
35 337	826	473	199	66	19	4	0	0	0	0	0	0	0	0	0	0	0	0
36 327	827	489	212	72	22	6	1	0	0	0	0	0	0	0	0	0	0	0
37 317	837	497	224	77	23	6	1	0	0	0	0	0	0	0	0	0	0	0
38 307	842	509	232	80	23	7	1	0	0	0	0	0	0	0	0	0	0	0
39 297	843	519	240	88	27	7	2	0	0	0	0	0	0	0	0	0	0	0
40 287	846	527	250	93	29	7	2	0	0	0	0	0	0	0	0	0	0	0
41 277	848	538	260	97	30	8	2	0	0	0	0	0	0	0	0	0	0	0
42 267	849	549	269	103	32	10	2	0	0	0	0	0	0	0	0	0	0	0
43 257	855	558	279	107	34	11	3	0	0	0	0	0	0	0	0	0	0	0
44 247	859	569	290	115	38	11	3	1	0	0	0	0	0	0	0	0	0	0
45 237	857	575	298	122	40	13	4	1	0	0	0	0	0	0	0	0	0	0
46 227	859	581	306	126	43	14	3	1	0	0	0	0	0	0	0	0	0	0
47 217	856	585	315	134	47	15	4	1	0	0	0	0	0	0	0	0	0	0
48 207	857	588	321	141	50	17	4	1	0	0	0	0	0	0	0	0	0	0
49 197	856	593	328	148	54	18	5	1	0	0	0	0	0	0	0	0	0	0
50 187	849	592	330	154	58	19	5	1	0	0	0	0	0	0	0	0	0	0
51 177	845	590	335	158	60	20	5	1	0	0	0	0	0	0	0	0	0	0
52 167	834	586	335	161	64	20	6	1	0	0	0	0	0	0	0	0	0	0
53 157	821	580	331	160	65	22	7	1	0	0	0	0	0	0	0	0	0	0
54 147	808	576	334	160	66	23	7	2	0	0	0	0	0	0	0	0	0	0
55 137	785	571	332	162	67	25	8	2	0	0	0	0	0	0	0	0	0	0
56 127	771	564	336	164	69	26	8	2	0	0	0	0	0	0	0	0	0	0
57 117	740	550	328	160	69	25	8	2	0	0	0	0	0	0	0	0	0	0
58 107	691	519	312	159	69	25	7	2	0	0	0	0	0	0	0	0	0	0
59 97	602	454	280	144	63	23	6	2	0	0	0	0	0	0	0	0	0	0
60 87	509	394	249	132	59	21	6	2	0	0	0	0	0	0	0	0	0	0
61 77	433	339	222	122	55	21	7	2	0	0	0	0	0	0	0	0	0	0

NWSY1006 ADCP 8552

Harmonic constants for constituent M2 for deployment NWSY1006.

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	677	222	248	110	209	239	65	23	242	A
02	667	222	248	111	209	239	65	23	242	A
03	657	221	249	110	209	238	65	23	242	A
04	647	220	249	110	209	238	64	23	242	A
05	637	219	249	110	210	237	64	23	242	A
06	627	218	249	109	210	236	63	23	242	A
07	617	218	249	110	211	236	62	23	242	A
08	607	217	249	110	211	236	62	24	242	A
09	597	215	249	110	212	234	61	24	242	A
10	587	214	249	110	212	233	60	24	242	A
11	577	213	249	109	214	232	58	24	243	A
12	567	210	249	108	215	230	55	25	243	A
13	557	207	249	107	217	227	53	25	243	A
14	547	204	249	106	218	225	50	25	243	A
15	537	201	250	103	220	221	46	25	244	A
16	527	196	249	102	222	217	42	26	244	A
17	517	191	249	100	225	212	37	26	244	A
18	507	186	249	98	227	208	33	27	244	A
19	497	181	249	96	230	203	27	27	245	A
20	487	175	249	95	233	197	23	28	246	A
21	477	169	249	95	237	193	18	29	246	A
22	467	163	249	95	240	188	12	30	247	A
23	457	157	249	95	243	183	7	31	247	A
24	447	151	249	94	248	178	1	32	249	A
25	437	143	249	95	252	172	4	34	250	C
26	427	137	250	97	255	167	7	35	251	C
27	417	130	250	100	258	164	10	38	253	C
28	407	124	252	105	261	162	13	40	255	C
29	397	119	253	109	264	161	15	42	258	C
30	387	113	254	111	267	158	18	45	260	C
31	377	108	255	115	269	156	19	47	263	C
32	367	103	256	118	270	156	19	49	264	C
33	357	100	258	122	272	156	20	51	266	C
34	347	95	260	127	274	157	18	53	269	C
35	337	91	263	132	275	160	15	55	271	C
36	327	90	266	137	275	164	12	57	272	C
37	317	88	268	143	275	168	9	58	273	C
38	307	86	272	148	275	171	5	60	274	C
39	297	85	274	153	276	174	1	61	275	C
40	287	85	277	156	276	178	2	62	276	A
41	277	84	280	160	276	181	5	62	277	A
42	267	85	282	163	275	184	8	63	277	A
43	257	86	283	165	275	186	10	63	277	A
44	247	86	284	167	275	188	11	63	277	A
45	237	87	284	168	275	188	12	63	277	A
46	227	87	286	169	275	190	14	63	277	A
47	217	87	287	170	275	191	17	63	278	A
48	207	88	288	172	275	192	17	63	278	A
49	197	89	289	174	275	194	19	63	278	A
50	187	90	290	174	275	195	21	63	278	A
51	177	90	290	175	275	196	21	63	278	A
52	167	90	290	175	275	196	21	63	278	A
53	157	89	291	176	275	196	21	64	279	A
54	147	89	291	176	276	196	21	64	279	A
55	137	87	293	177	276	196	22	64	279	A
56	127	85	294	178	276	196	24	65	280	A
57	117	85	297	180	277	197	27	66	280	A
58	107	83	300	183	276	199	31	67	280	A
59	97	84	299	188	275	203	31	67	279	A
60	87	93	298	190	274	208	34	65	278	A
61	77	97	297	186	272	206	37	64	277	A

NWSY1006 ADCP 8552

Harmonic constants for constituent S2 for deployment NWSY1006.

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	677	69	288	38	264	77	14	27	283	A
02	667	69	288	37	263	77	14	27	283	A
03	657	69	288	38	264	77	14	28	283	A
04	647	69	289	38	264	77	14	28	283	A
05	637	68	289	38	264	77	14	28	283	A
06	627	69	288	38	264	77	14	28	283	A
07	617	68	288	38	264	77	14	28	283	A
08	607	67	289	38	265	76	14	28	283	A
09	597	67	288	39	268	77	12	29	283	A
10	587	66	289	38	268	76	12	29	284	A
11	577	65	288	38	268	75	11	29	283	A
12	567	65	288	37	269	74	10	29	283	A
13	557	65	288	37	270	74	10	29	284	A
14	547	65	288	37	270	74	10	29	284	A
15	537	65	288	37	271	74	10	29	284	A
16	527	64	288	37	270	73	10	30	284	A
17	517	64	288	38	270	74	10	30	283	A
18	507	64	287	38	270	74	9	30	283	A
19	497	62	287	39	272	73	9	31	283	A
20	487	61	287	39	275	72	7	32	284	A
21	477	58	288	39	277	70	6	33	285	A
22	467	56	288	39	279	68	5	35	285	A
23	457	55	288	39	281	67	4	35	286	A
24	447	53	289	39	284	66	3	36	287	A
25	437	51	288	39	287	64	1	37	288	A
26	427	49	289	39	290	63	0	38	290	C
27	417	48	289	39	293	62	2	39	291	C
28	407	48	290	39	294	62	2	39	291	C
29	397	47	292	40	296	62	2	40	294	C
30	387	46	293	42	299	62	3	42	295	C
31	377	44	293	44	301	62	4	44	297	C
32	367	43	294	45	304	62	5	46	299	C
33	357	41	294	47	306	62	6	48	301	C
34	347	39	293	48	307	62	7	51	301	C
35	337	37	290	49	309	60	9	53	302	C
36	327	35	289	50	310	60	10	56	303	C
37	317	34	292	52	310	61	9	57	304	C
38	307	34	295	52	311	62	8	57	306	C
39	297	34	300	54	311	63	6	58	308	C
40	287	35	304	55	310	65	3	57	308	C
41	277	37	308	56	309	67	1	56	309	C
42	267	38	307	55	308	67	1	55	308	C
43	257	40	307	55	307	68	0	54	307	C
44	247	40	308	54	307	67	1	53	307	A
45	237	41	308	54	306	68	1	53	307	A
46	227	41	309	55	307	69	1	53	308	A
47	217	41	310	55	307	69	2	53	308	A
48	207	43	312	56	307	71	3	53	309	A
49	197	45	311	57	307	72	3	52	309	A
50	187	46	311	56	307	73	2	51	309	A
51	177	48	311	56	306	74	3	49	308	A
52	167	50	312	56	306	75	4	49	309	A
53	157	49	310	55	306	74	3	48	308	A
54	147	51	310	54	305	74	3	47	307	A
55	137	51	312	55	305	75	4	47	308	A
56	127	52	311	54	305	75	4	46	308	A
57	117	52	313	53	305	75	5	46	309	A
58	107	51	312	55	304	74	5	47	307	A
59	97	47	312	53	304	71	5	49	308	A
60	87	42	313	55	305	69	4	53	308	A
61	77	38	308	57	310	68	1	56	309	C

NWSY1006 ADCP 8552

Harmonic constants for constituent N2 for deployment NWSY1006.

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	677	48	212	15	160	49	11	11	209	A
02	667	47	212	14	160	48	11	11	209	A
03	657	46	212	14	159	47	11	11	209	A
04	647	46	212	15	160	47	11	11	209	A
05	637	48	212	15	159	49	12	12	209	A
06	627	47	212	15	160	48	11	12	209	A
07	617	46	213	14	161	47	11	11	210	A
08	607	47	212	14	157	47	11	11	209	A
09	597	46	212	14	160	47	11	11	210	A
10	587	46	212	14	158	47	11	11	209	A
11	577	46	211	13	158	47	11	10	209	A
12	567	46	211	13	159	47	10	10	209	A
13	557	46	212	13	157	46	10	10	209	A
14	547	44	212	13	161	45	10	11	209	A
15	537	43	211	11	160	43	9	10	209	A
16	527	42	211	11	161	43	8	10	209	A
17	517	40	210	11	169	41	7	12	208	A
18	507	39	211	11	165	40	8	11	208	A
19	497	38	210	9	174	39	5	11	209	A
20	487	35	211	9	186	36	3	12	210	A
21	477	35	211	8	189	36	3	13	209	A
22	467	35	212	9	198	36	2	14	211	A
23	457	34	212	10	205	35	1	16	211	A
24	447	33	215	10	213	34	0	17	215	A
25	437	32	218	11	214	34	1	19	218	A
26	427	30	221	12	216	32	1	21	220	A
27	417	30	223	14	219	33	1	25	222	A
28	407	29	223	15	223	32	0	27	223	A
29	397	28	226	17	224	33	0	32	225	A
30	387	26	230	21	233	34	1	39	231	C
31	377	24	237	24	235	34	0	44	236	A
32	367	24	244	26	240	35	1	48	242	A
33	357	25	251	30	241	39	3	50	245	A
34	347	26	258	34	239	42	7	52	246	A
35	337	28	263	38	240	46	9	54	248	A
36	327	29	268	40	241	48	11	55	250	A
37	317	29	272	41	239	48	13	56	250	A
38	307	30	275	41	237	48	16	56	249	A
39	297	32	275	41	236	49	16	54	250	A
40	287	32	274	41	236	49	16	53	249	A
41	277	33	275	41	235	49	18	53	250	A
42	267	33	276	41	236	49	17	53	251	A
43	257	33	279	42	237	50	18	55	252	A
44	247	32	282	43	239	50	19	56	253	A
45	237	32	285	44	240	51	19	57	254	A
46	227	32	287	45	241	52	20	58	254	A
47	217	33	289	46	241	52	21	59	255	A
48	207	32	290	45	242	52	21	58	256	A
49	197	32	294	46	243	51	22	60	257	A
50	187	31	294	47	245	52	21	62	257	A
51	177	29	296	46	246	50	20	63	258	A
52	167	28	299	48	247	52	21	66	257	A
53	157	27	299	49	248	53	19	68	257	A
54	147	27	304	50	250	53	21	69	259	A
55	137	29	308	51	250	54	23	69	259	A
56	127	29	311	52	252	55	24	71	261	A
57	117	31	305	55	251	59	24	68	260	A
58	107	32	309	56	252	59	25	69	261	A
59	97	35	307	58	251	62	27	67	262	A
60	87	36	307	64	248	67	30	69	258	A
61	77	41	304	65	246	70	32	67	257	A

NWSY1006 ADCP 8552

Harmonic constants for constituent O1 for deployment NWSY1006.

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	677	16	357	9	35	18	5	26	5	C
02	667	16	354	9	35	18	6	26	3	C
03	657	16	353	10	36	18	6	27	3	C
04	647	17	354	10	37	18	6	26	3	C
05	637	16	354	10	38	18	6	28	4	C
06	627	16	353	10	37	18	6	27	3	C
07	617	16	352	10	40	17	6	27	3	C
08	607	16	355	10	36	18	6	28	5	C
09	597	16	354	10	38	18	6	27	4	C
10	587	16	353	10	39	17	6	27	3	C
11	577	16	352	9	34	18	6	26	1	C
12	567	16	353	10	36	18	6	31	5	C
13	557	15	357	10	33	17	5	30	6	C
14	547	15	357	10	37	17	6	31	8	C
15	537	16	355	10	39	17	6	29	6	C
16	527	16	355	10	35	18	6	28	5	C
17	517	16	353	10	37	18	6	27	3	C
18	507	16	350	9	37	18	6	24	359	C
19	497	17	349	9	37	18	6	22	357	C
20	487	17	348	9	34	18	6	22	355	C
21	477	17	346	8	29	18	5	19	351	C
22	467	16	348	8	29	17	5	21	354	C
23	457	16	350	8	32	17	5	23	357	C
24	447	15	350	8	36	16	5	21	357	C
25	437	16	348	7	40	17	5	17	353	C
26	427	16	349	7	42	17	5	17	355	C
27	417	16	348	7	43	16	6	17	354	C
28	407	16	347	8	40	17	6	21	355	C
29	397	16	348	9	39	17	7	25	359	C
30	387	15	348	9	42	16	7	25	360	C
31	377	15	351	9	48	16	7	23	2	C
32	367	15	353	10	49	16	8	27	7	C
33	357	15	353	11	43	17	7	31	8	C
34	347	15	349	10	36	17	6	29	1	C
35	337	14	345	9	28	16	6	29	356	C
36	327	15	345	8	23	17	5	26	353	C
37	317	14	344	8	20	16	4	26	352	C
38	307	14	345	8	17	15	4	27	352	C
39	297	14	345	7	17	15	3	25	352	C
40	287	13	349	8	21	15	4	29	357	C
41	277	14	349	8	26	15	4	27	358	C
42	267	14	347	8	23	15	4	26	354	C
43	257	13	346	9	26	15	5	32	358	C
44	247	13	344	9	23	15	5	32	355	C
45	237	12	345	8	26	14	4	30	356	C
46	227	13	346	8	29	15	5	29	357	C
47	217	12	341	8	32	14	6	28	354	C
48	207	12	339	8	30	13	5	26	350	C
49	197	13	341	8	26	15	5	28	352	C
50	187	13	343	7	29	14	5	23	351	C
51	177	13	340	6	37	14	5	17	347	C
52	167	13	346	6	59	13	6	10	351	C
53	157	13	340	6	67	13	6	1	340	C
54	147	14	336	8	75	14	8	173	153	C
55	137	12	334	6	76	12	6	171	149	C
56	127	12	331	7	73	12	7	170	146	C
57	117	10	343	8	98	10	6	150	144	C
58	107	10	333	9	81	11	8	142	124	C
59	97	12	340	9	50	13	8	27	358	C
60	87	13	332	11	46	14	10	31	355	C
61	77	14	334	15	19	19	8	49	360	C

NWSY1006 ADCP 8552

Harmonic constants for constituent K1 for deployment NWSY1006.

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	677	11	205	3	257	11	2	10	207	C
02	667	11	204	4	254	12	3	13	207	C
03	657	11	204	4	252	12	3	14	207	C
04	647	11	207	4	250	11	2	14	210	C
05	637	12	211	3	253	12	2	11	213	C
06	627	12	209	3	229	12	1	13	210	C
07	617	12	206	3	246	12	2	13	208	C
08	607	11	204	3	261	11	2	8	205	C
09	597	11	204	3	247	12	2	10	205	C
10	587	11	205	2	250	11	2	9	206	C
11	577	11	205	3	256	11	2	10	207	C
12	567	11	206	2	264	11	2	7	207	C
13	557	11	204	2	255	11	2	8	205	C
14	547	12	204	2	245	12	1	8	205	C
15	537	12	201	3	240	12	2	10	203	C
16	527	11	203	3	227	12	1	13	205	C
17	517	11	211	3	246	12	2	11	213	C
18	507	11	209	3	248	11	2	12	211	C
19	497	11	214	2	257	11	1	7	215	C
20	487	11	213	2	273	11	1	4	214	C
21	477	11	206	2	266	11	1	4	207	C
22	467	10	204	1	290	10	1	1	204	C
23	457	11	207	1	266	11	0	1	207	C
24	447	11	206	1	331	11	0	178	26	C
25	437	11	213	1	302	11	1	0	214	C
26	427	10	213	2	203	10	0	9	213	A
27	417	9	214	1	217	9	0	9	214	C
28	407	8	207	1	241	8	1	7	207	C
29	397	8	198	2	237	8	1	10	200	C
30	387	8	186	4	218	8	2	22	191	C
31	377	7	185	5	218	9	2	34	196	C
32	367	8	172	5	207	9	2	29	181	C
33	357	8	164	6	209	9	4	33	178	C
34	347	8	152	6	192	9	3	33	164	C
35	337	8	139	6	187	10	4	32	153	C
36	327	9	141	6	181	10	3	32	153	C
37	317	8	142	6	182	10	3	35	156	C
38	307	8	150	6	181	10	3	33	160	C
39	297	8	156	4	171	9	1	27	159	C
40	287	9	169	4	172	10	0	23	170	C
41	277	9	180	3	146	10	2	15	177	A
42	267	10	185	3	144	10	2	13	183	A
43	257	10	185	3	142	10	2	15	182	A
44	247	10	186	3	138	10	2	12	183	A
45	237	10	183	4	121	10	3	11	179	A
46	227	10	175	3	120	11	3	11	173	A
47	217	10	174	3	132	11	2	12	172	A
48	207	11	175	3	141	11	1	11	173	A
49	197	11	182	2	115	11	2	4	181	A
50	187	12	185	1	127	12	1	2	185	A
51	177	12	197	1	314	12	1	178	17	C
52	167	13	210	1	292	13	1	0	210	C
53	157	14	216	2	17	14	1	172	36	C
54	147	14	222	3	18	15	1	168	40	C
55	137	17	230	5	344	17	5	172	48	C
56	127	20	231	6	352	20	5	171	49	C
57	117	23	240	9	329	23	9	1	240	C
58	107	28	239	10	320	28	9	4	240	C
59	97	29	237	11	300	30	10	11	240	C
60	87	28	241	12	300	28	10	15	247	C
61	77	25	231	10	299	26	9	10	235	C



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