

NACLIM ADCP Deployments in Faroese Waters 2014 - 2015

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Introduction

This report documents 7 ADCP deployments in Faroese waters in 2014 – 2015. MicroCats are included in three of the deployments. An Aanderaa is included in one deployment. 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. The deployments are listed in Tables 1 and 2.

At sites NWFB, NWFC, NWNB, NWNG, and NWSC RDI ADCPs were placed in the top of single-point moorings. At sites NWNA, and NWSH “shallow-water” rigs were used, where an RDI ADCP was placed on the bottom inside a protective aluminum frame.

For each deployment, the ADCP measures the velocity averaged over a number of depth layers (“bins”). At 20 minute intervals, the ADCP records the data from all bins into “ensembles”.

An Aanderaa current meter on the mooring line below one of the ADCP recorded speed, direction and temperature at 60 minutes intervals. The MicroCats attached to three of the ADCPs recorded temperature, salinity and pressure every 10 minutes.

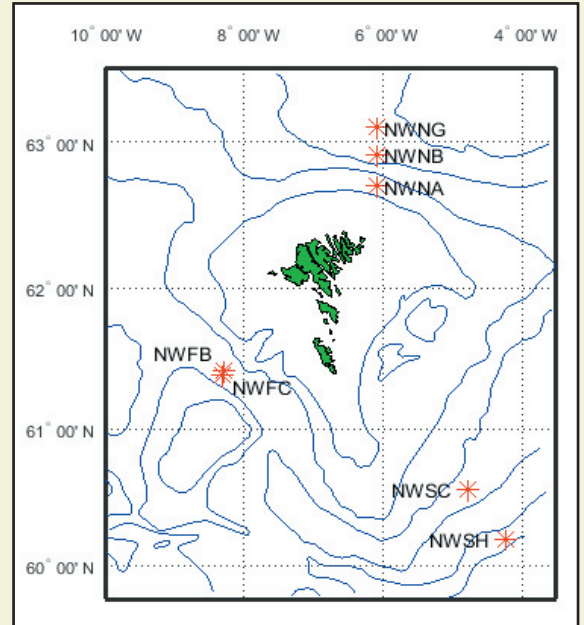


Figure 1. ADCP mooring sites in Faroese waters 2014-2015 superposed on a map with the bottom topography. Each site is indicated by a four-letter label.

Table 1. List of deployments with information on ADCP number, type and settings.

Deployment	Instr. No	ADCP type	Freq. kHz	Pings per ens	Binlng. m
NWFB1406	1577	Broadband	75	1	25
NWFC1408	1285	Broadband	75	1	25
NWNA1406	1279	Broadband	150	1	10
NWNB1406	19518	Long Ranger	75	10	10
NWNG1406	1644	Broadband	75	1	25
NWSC1406	8552	Long Ranger	75	10	10
NWSH1406	3368	Long Ranger	75	10	10

Table 2. List of deployments with information on duration and range of valid data. All depths are in meters. The last column indicates whether other instruments were on the mooring.

Deployment	Bottom depth	Int. min.	Valid data period	Dur. days	No bins	Depth range	Comments
NWFB1406	809	20	2014 06 09–2015 05 24	349	23	217– 767	Microcat
NWFC1408	818	20	2014 08 29–2015 05 24	267	24	201– 776	
NWNA1406	300	20	2014 06 05–2015 05 25	353	24	53– 283	Microcat
NWNB1406	958	20	2014 06 06–2015 05 25	353	63	66– 686	
NWNG1406	1802	20	2014 06 06–2015 05 25	353	22	73– 598	
NWSC1406	1067	20	2014 06 08–2015 05 23	348	58	60– 630	Aanderaa
NWSH1406	202	20	2014 06 08–2015 05 23	348	16	32– 182	Microcat

Quality control

The ADCP data have been quality controlled using an automatic routine. The data have been processed such that threshold values for e.g. maximum error velocity, minimum mean correlation and others were set. Also, error velocities deviating more than a selected number times the standard deviation from the mean error velocity were error flagged. Speed spikes are calculated in a similar manner selecting a number of standard deviations and then error flagging those values where u or v deviated more than the threshold from a 3 point median filtered u and v series. For specific values used, see the error statistics for the individual series.

Generally, the series have been edited up to the level where about 50% of the observations were found to be valid. Bins above this level have not been included.

The velocity direction has been corrected for magnetic deviation, by adding a constant as indicated in the header of the data file.

The instrument depth at site NWNG is found using the data from the surface echo. The instrument depth at site NWFC is found from the echo sounding depth (corrected for change in sound velocity). The instrument depths at sites NWFB, NWNA and NWSH are found from the MicroCat pressure measurements. The instrument depths at sites NWNB and NWSC are found from the ADCP pressure measurements.

At site NWFC the mooring surfaced a few days after deployment in June. It was redeployed in August, and here we only include the data from August to May.

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.

The pressure and temperature data from the MicroCat instruments have been quality controlled by a standard procedure based upon data variation with time in relation to neighboring values (spikes). The editing has been done manually using an interactive graphical software package developed by FAMRI, based upon MATLAB.

Report format

For each deployment, the report contains several pages, beginning with a page that has a drawing of the mooring and details of the deployment. After that, there are some pages describing the ADCP data, beginning with a page with detailed error statistics and threshold settings for the deployment, and it 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 the deployment has 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 Tables 1 and 2. For each deployment, the ADCP data are presented first, followed by possible Aanderaa or MicroCat data.

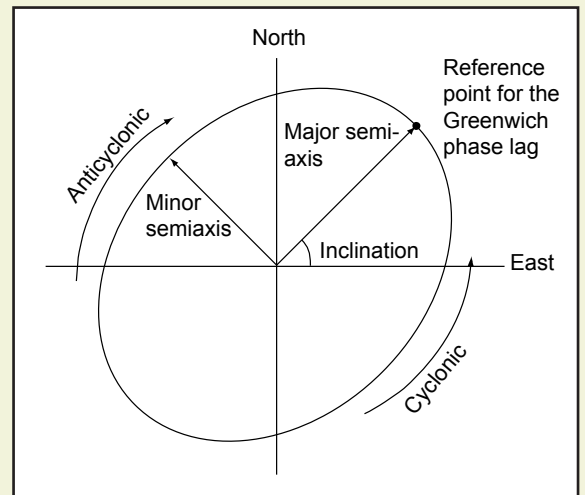


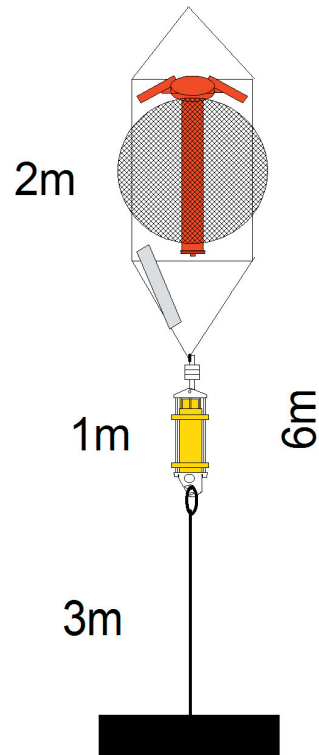
Figure 2. Parameters of the tidal ellipse for a given constituent. The reference point for the Greenwich phase lag is always chosen to be above the east-west axis.

NWFB1406

Latitude: 61°24.951'N
Longitude: 008°17.000'W
Echo sounding depth: 818 m
Bottom depth corr.: 809 m
Time of deployment: 9/6 -2014 0340 UTC
Time of recovery: 24/5 - 2015 1011 UTC

ADCP:

Instrument no.: RDI ADCP 1577
Instrument frequency: 75 kHz
Height above bottom: 6 m
Depth: 803 m (corr.)
Time of first data: 9/6 - 2014 0420 UTC
Time of last data: 24/5 - 2015 1000 UTC
Sample interval: 20 min
No. of ensembles: 25146
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 767 m (corr.)
No. of bins: 23



MicroCat

Instrument no.: 6094
Height above bottom: 5 m
Time of first data: 9/6 - 2014 0410 UTC
Time of last data: 24/5 - 2015 1010 UTC
Sample interval: 10 min
No. of ensembles: 50293
Instrument depth: 804 m

Data:

ADCP data ok.
The salinity from the MicroCat may have a small drift.

NWFB1406 ADCP 1577

Error statistics for deployment: NWFB1406 updated 2015/06/23

 Temperature edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:

Minimum Intensity:40.0
 Minimum Mean Correlation:64.0
 Maximum Speed, number of std dev for each bin: 5.0
 Maximum Error Velocity (erv_tr+0.1*spd):100.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 5.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 23): 2.52
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 32): 0.20

Total number of ensembles: 25146
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 23

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 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	36	0	36	0	0	0	0	0	0	0	0	0	
2	0	33	0	33	0	0	0	0	0	0	0	0	0	
3	0	39	0	35	2	0	0	0	0	0	0	0	0	
4	0	39	0	37	1	0	0	0	0	0	0	0	0	
5	0	36	0	32	0	0	1	0	0	0	0	0	0	
6	0	49	0	45	0	0	1	0	0	0	0	0	0	
7	0	126	1	102	9	2	0	0	0	0	0	0	0	
8	0	294	1	241	23	1	1	0	0	0	0	0	0	
9	0	456	2	353	44	5	0	0	0	0	0	0	0	
10	0	467	2	381	32	6	1	0	0	0	0	0	0	
11	0	532	2	381	46	12	2	3	0	0	0	0	0	
12	0	420	2	299	39	8	3	0	1	0	0	0	0	
13	0	344	1	261	26	7	1	0	1	0	0	0	0	
14	0	334	1	250	33	6	0	0	0	0	0	0	0	
15	0	384	2	284	28	5	1	2	2	0	0	0	0	
16	0	575	2	321	45	8	9	4	6	3	0	0	0	
17	0	1181	5	386	90	23	10	6	14	17	6	0	0	
18	0	2433	10	480	105	42	16	17	34	23	17	10	1	
19	0	4186	17	508	125	54	24	21	56	35	22	29	4	
20	0	6304	25	555	151	46	41	26	62	61	32	43	14	
21	0	8572	34	534	162	66	42	35	76	64	34	64	28	
22	0	10424	41	536	144	74	41	29	86	67	31	75	45	
23	0	12138	48	542	170	83	33	36	89	70	58	53	50	

NWFB1406 ADCP 1577

Deployment: NWFB1406 updated 2015/06/23
 Instrument no.: 1577
 Instrument freq.: 75
 Latitude: 61 24.951 N
 Longitude: 08 17.000 W
 Bottom depth: 809
 Instrument depth: 803
 Center depth of first bin: 767
 Bin length: 25
 Number of bins: 23
 Number of first ensemble: 419
 Time of first ensemble: 2014 06 09 04 20
 Number of last ensemble: 25564
 Time of last ensemble: 2015 05 24 10 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	767	42	961	955	307	999
2	742	67	1024	1018	310	999
3	717	92	1045	1039	312	998
4	692	117	1048	1043	313	998
5	667	142	1040	1035	314	999
6	642	167	1014	1006	314	998
7	617	192	950	939	316	995
8	592	217	837	817	318	988
9	567	242	684	647	320	982
10	542	267	524	459	322	981
11	517	292	391	292	323	979
12	492	317	303	170	323	983
13	467	342	256	93	321	986
14	442	367	231	48	318	987
15	417	392	217	21	312	985
16	392	417	210	6	289	977
17	367	442	206	4	180	953
18	342	467	203	7	140	903
19	317	492	199	9	118	834
20	292	517	192	11	92	749
21	267	542	185	13	82	659
22	242	567	180	17	96	585
23	217	592	177	18	100	517

NWFB1406 ADCP 1577

Frequency of high speeds.

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

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Bin Depth	no. m	Speed (cm/s)																
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
1 767	999	999	998	997	992	974	927	823	648	439	225	72	12	1	0	0	0	0
2 742	999	999	999	998	995	981	951	885	757	580	378	167	39	6	0	0	0	0
3 717	998	998	998	998	994	982	955	895	781	618	434	217	58	7	0	0	0	0
4 692	998	998	998	997	993	981	953	893	784	625	448	232	63	8	0	0	0	0
5 667	998	997	996	994	990	977	941	879	770	616	437	229	60	8	0	0	0	0
6 642	997	995	993	988	976	954	911	841	727	571	402	206	54	7	0	0	0	0
7 617	993	986	972	956	937	902	841	749	627	482	326	152	39	5	0	0	0	0
8 592	977	953	921	888	847	784	703	600	470	331	195	83	22	4	0	0	0	0
9 567	957	899	838	775	699	608	506	387	266	165	89	33	8	1	0	0	0	0
10 542	941	843	724	603	484	373	280	191	117	63	26	6	1	0	0	0	0	0
11 517	912	748	563	401	279	193	123	70	34	14	4	1	0	0	0	0	0	0
12 492	881	653	419	248	143	80	41	17	7	2	0	0	0	0	0	0	0	0
13 467	857	579	326	158	69	31	13	4	0	0	0	0	0	0	0	0	0	0
14 442	837	528	264	107	36	11	2	0	0	0	0	0	0	0	0	0	0	0
15 417	822	496	228	79	21	4	0	0	0	0	0	0	0	0	0	0	0	0
16 392	806	473	204	68	14	3	0	0	0	0	0	0	0	0	0	0	0	0
17 367	780	448	188	60	12	2	0	0	0	0	0	0	0	0	0	0	0	0
18 342	735	412	172	54	10	2	0	0	0	0	0	0	0	0	0	0	0	0
19 317	668	368	151	48	11	2	1	0	0	0	0	0	0	0	0	0	0	0
20 292	590	310	121	37	9	2	1	0	0	0	0	0	0	0	0	0	0	0
21 267	508	250	94	28	6	2	1	0	0	0	0	0	0	0	0	0	0	0
22 242	445	211	77	24	6	2	0	0	0	0	0	0	0	0	0	0	0	0
23 217	391	180	65	21	4	1	0	0	0	0	0	0	0	0	0	0	0	0

NWFB1406 ADCP 1577

Harmonic constants for constituent M2 for deployment NWFB1406.

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	767	28	60	21	319	29	20	165	251	A
02	742	33	64	21	318	34	19	165	253	A
03	717	33	72	20	316	35	17	161	262	A
04	692	33	82	18	313	35	13	159	270	A
05	667	33	89	17	308	36	10	155	276	A
06	642	27	104	19	288	33	1	146	285	A
07	617	30	135	22	269	35	14	148	301	C
08	592	39	158	21	260	39	20	171	334	C
09	567	45	183	21	240	47	17	16	189	C
10	542	50	212	32	201	59	5	32	209	A
11	517	58	234	56	180	72	36	43	209	A
12	492	67	248	79	175	84	60	60	197	A
13	467	74	257	92	175	94	72	74	187	A
14	442	77	262	98	176	99	76	83	181	A
15	417	76	266	101	177	101	76	88	179	A
16	392	74	269	100	179	100	74	90	179	A
17	367	74	272	98	180	99	74	93	177	A
18	342	74	273	99	181	99	74	94	177	A
19	317	75	275	100	182	100	75	95	178	A
20	292	74	279	100	185	100	74	95	181	A
21	267	73	280	97	187	97	73	94	184	A
22	242	71	284	98	189	98	70	98	183	A
23	217	71	285	97	193	97	71	92	192	A

Harmonic constants for constituent S2 for deployment NWFB1406.

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	767	9	110	7	29	9	7	19	94	A
02	742	12	115	8	25	12	8	179	296	A
03	717	12	123	6	23	12	6	173	306	A
04	692	10	121	7	359	10	5	153	315	A
05	667	7	117	8	342	10	4	130	323	A
06	642	6	153	9	327	11	0	125	329	C
07	617	9	198	11	317	12	7	127	340	C
08	592	14	236	9	304	15	8	20	248	C
09	567	18	255	8	237	20	2	23	252	A
10	542	21	266	17	208	24	13	35	245	A
11	517	24	280	29	205	30	22	64	224	A
12	492	27	288	34	207	34	26	73	220	A
13	467	26	293	33	210	33	25	76	221	A
14	442	24	293	33	214	34	23	75	224	A
15	417	23	295	33	218	34	22	76	227	A
16	392	23	300	34	221	34	22	77	230	A
17	367	23	303	34	224	35	22	78	231	A
18	342	23	311	34	225	34	23	85	228	A
19	317	23	310	34	227	34	23	82	232	A
20	292	23	311	33	224	33	23	87	226	A
21	267	21	310	27	226	27	21	79	235	A
22	242	19	323	29	238	29	19	84	242	A
23	217	18	318	26	235	26	18	81	241	A

NWFB1406 ADCP 1577

Harmonic constants for constituent N2 for deployment NWFB1406.

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	767	10	56	4	298	10	4	167	241	A
02	742	11	60	4	301	11	4	168	244	A
03	717	12	63	5	300	13	4	165	248	A
04	692	12	60	5	295	12	4	164	246	A
05	667	11	68	6	274	12	2	155	253	A
06	642	9	82	5	265	10	0	149	263	A
07	617	6	106	5	252	7	2	143	273	C
08	592	5	114	8	237	9	4	116	250	C
09	567	8	119	11	244	12	6	118	258	C
10	542	6	134	11	236	11	6	100	242	C
11	517	5	172	10	203	11	2	65	198	C
12	492	7	215	12	169	13	5	65	178	A
13	467	10	234	16	159	16	10	75	168	A
14	442	12	243	18	157	18	12	86	160	A
15	417	13	250	19	156	19	13	94	154	A
16	392	13	258	19	159	19	13	102	150	A
17	367	13	262	19	167	19	13	96	162	A
18	342	14	267	21	170	21	13	98	165	A
19	317	15	271	21	166	22	14	109	153	A
20	292	16	271	21	161	22	14	116	144	A
21	267	17	273	21	168	22	15	116	148	A
22	242	14	275	21	171	21	13	106	161	A
23	217	14	278	22	169	23	13	106	160	A

Harmonic constants for constituent O1 for deployment NWFB1406.

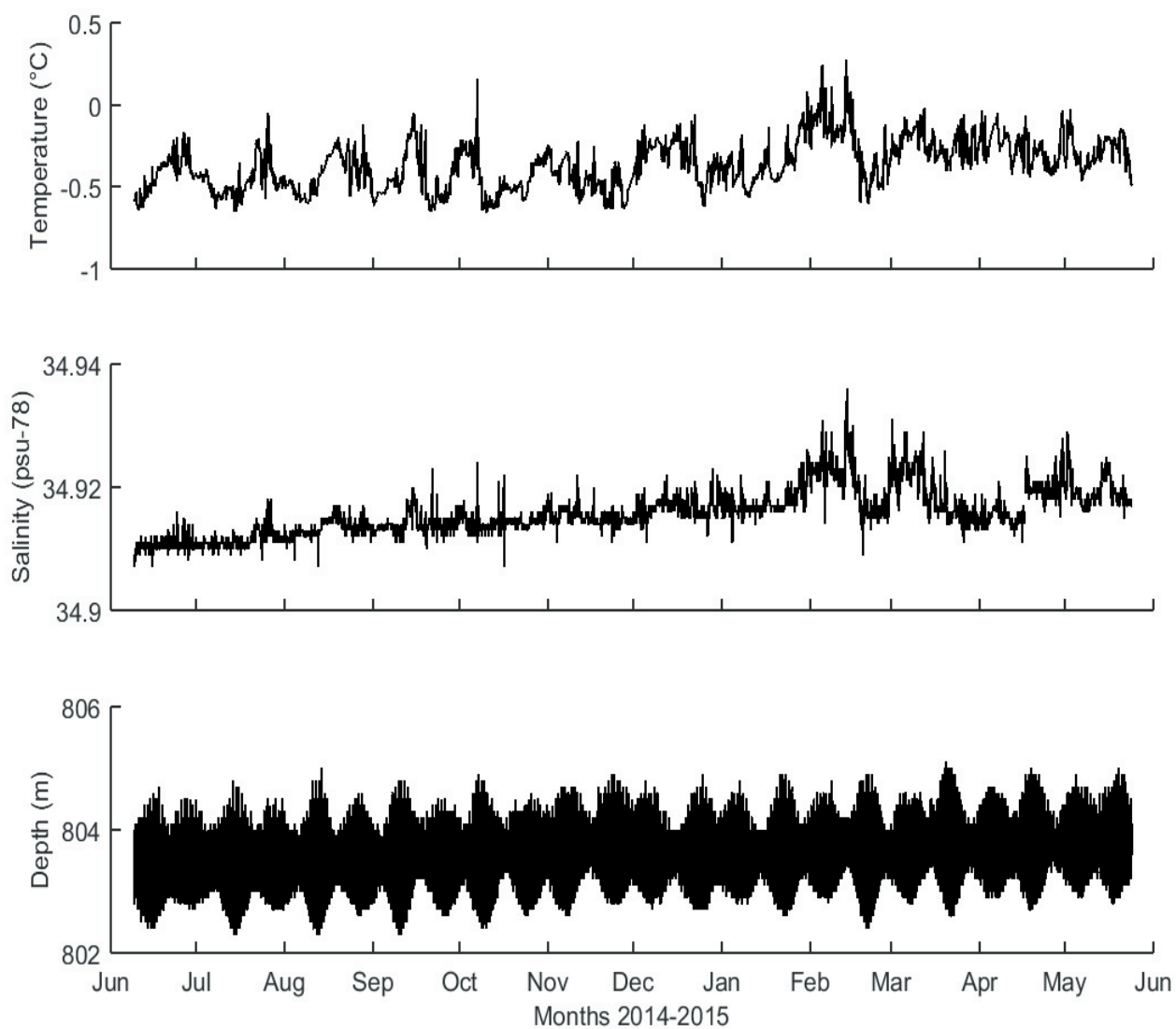
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	767	15	312	11	158	18	4	147	140	A
02	742	16	318	11	150	20	2	146	142	A
03	717	17	320	13	145	21	1	143	142	A
04	692	15	323	14	144	21	0	138	143	A
05	667	17	334	13	145	22	2	142	151	C
06	642	22	342	14	150	26	2	148	158	C
07	617	28	344	18	163	33	0	147	164	C
08	592	30	347	25	161	39	2	140	164	C
09	567	31	352	29	162	42	3	137	167	C
10	542	26	357	30	162	39	5	131	168	C
11	517	22	5	26	163	33	6	130	172	C
12	492	19	17	20	173	27	6	133	184	C
13	467	16	22	16	186	23	3	136	195	C
14	442	14	20	13	189	19	2	136	195	C
15	417	12	26	12	190	17	2	137	198	C
16	392	11	31	13	191	17	3	132	200	C
17	367	12	33	15	190	18	4	129	199	C
18	342	11	37	13	205	17	2	130	210	C
19	317	11	24	14	201	18	0	127	202	C
20	292	9	44	12	218	15	1	126	220	C
21	267	10	45	13	205	16	3	129	213	C
22	242	8	21	14	198	16	0	121	199	C
23	217	10	18	13	201	16	0	129	199	A

NWFB1406 ADCP 1577

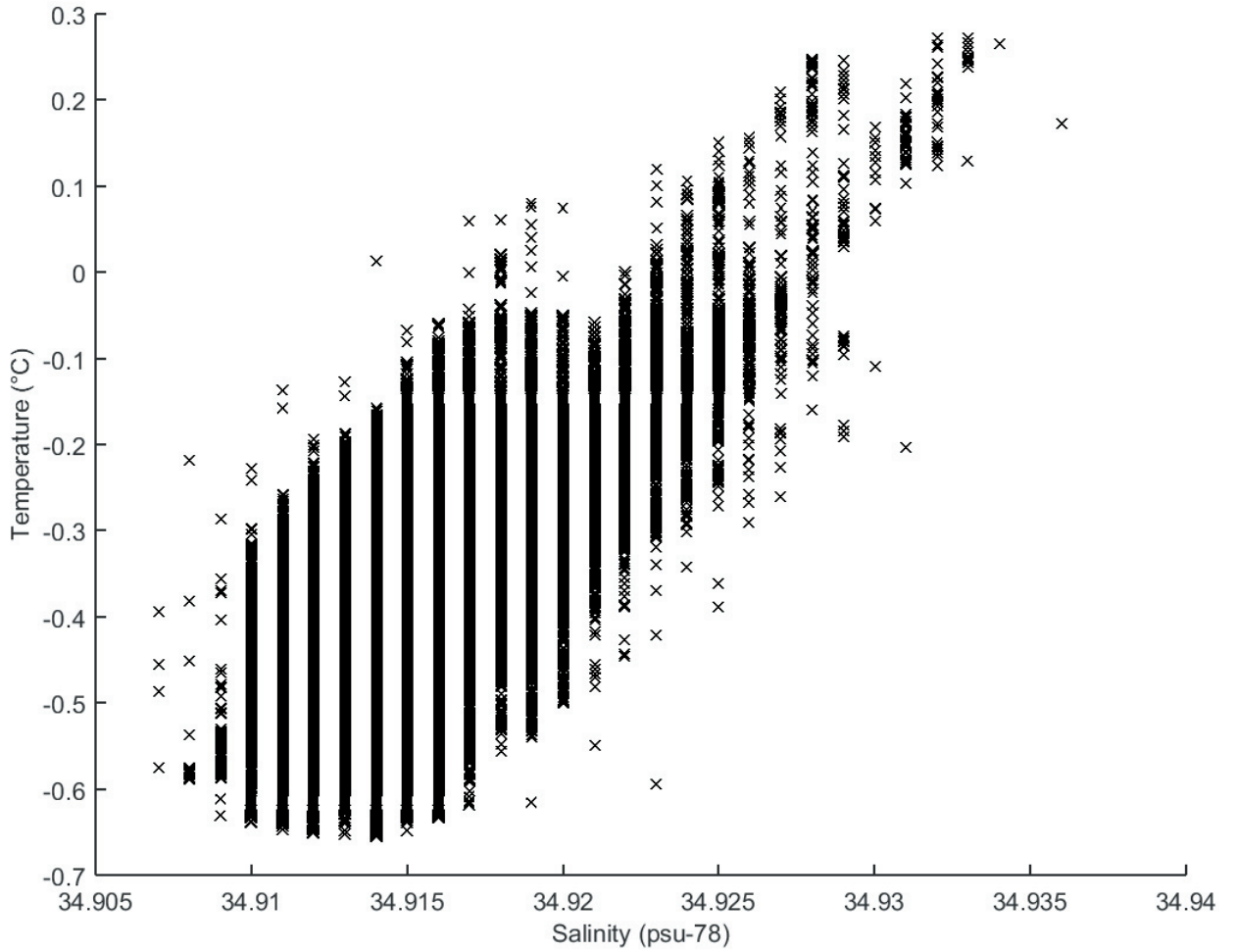
Harmonic constants for constituent K1 for deployment NWFB1406.

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	767	18	222	10	53	21	2	153	44	A
02	742	20	225	12	53	23	1	150	47	A
03	717	20	225	13	48	24	1	148	46	A
04	692	19	228	14	49	24	0	144	49	A
05	667	20	234	14	49	25	1	144	52	C
06	642	23	238	16	55	28	1	145	57	C
07	617	26	242	20	65	33	1	142	63	A
08	592	29	242	26	69	39	2	139	65	A
09	567	31	244	27	66	41	1	139	65	A
10	542	25	244	29	64	38	0	130	64	A
11	517	17	243	26	68	31	1	123	66	A
12	492	14	256	19	76	24	0	126	76	A
13	467	12	269	18	82	22	1	124	84	C
14	442	11	277	18	84	21	2	121	88	C
15	417	11	280	20	87	23	2	118	90	C
16	392	11	281	20	89	22	2	119	92	C
17	367	10	284	16	91	18	2	122	94	C
18	342	11	291	13	99	17	2	129	104	C
19	317	13	286	12	97	18	1	139	102	C
20	292	16	284	16	106	22	0	135	105	A
21	267	14	290	13	116	19	1	137	113	A
22	242	17	309	16	124	23	1	136	126	C
23	217	17	311	16	123	23	2	138	127	C

NWFB1406 MicroCat 6094



NWFB1406 MicroCat 6094



NWFC1408

Latitude: 61°23.100'N

Longitude: 008°19.100'W

Echo sounding depth: 830 m

Bottom depth corr.: 818 m

Time of deployment: 29/8 -2014 1808 UTC

Time of recovery: 24/5 - 2015 0933 UTC

ADCP:

Instrument no.: RDI ADCP 1285

Instrument frequency: 75 kHz

Height above bottom: 6 m

Depth: 812 m (corr.)

Time of first data: 29/8 - 2014 1820 UTC

Time of last data: 24/5 - 2015 0920 UTC

Sample interval: 20 min

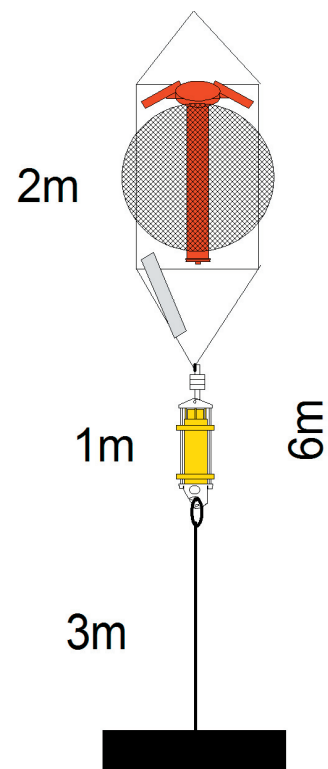
No. of ensembles: 19270

Pings per ens.: 1

Binlength: 25 m

Depth of first bin: 776 m (corr.)

No. of bins: 24



Data:

All data ok.

NWFC1408 ADCP 1285

Error statistics for deployment: NWFC1408 updated 2015/06/25

 Temperature edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:

Minimum Mean Correlation:64.0
 Maximum Speed, number of std dev for each bin: 6.0
 Maximum Error Velocity (erv_tr+0.1*spd):100.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 4.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 24): 2.74
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 32): 2.00
 Vertical Speed Spikes, u and v deviated from 3 point median by number of std dev: 4.0

Total number of ensembles: 19270
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 24

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 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	232	1	185	16	5	0	0	0	0	0	0	0	0
2	0	590	3	489	38	7	1	0	0	0	0	0	0	0
3	0	470	2	370	34	5	3	1	0	0	0	0	0	0
4	0	564	3	434	39	13	2	1	0	0	0	0	0	0
5	0	739	4	549	72	11	2	1	0	0	0	0	0	0
6	0	873	5	631	74	17	7	3	0	0	0	0	0	0
7	0	2025	11	1104	255	72	28	6	8	0	0	0	0	0
8	0	1527	8	905	183	46	17	7	2	0	0	0	0	0
9	0	1656	9	804	170	74	29	10	16	1	0	0	0	0
10	0	1376	7	668	125	54	27	11	16	1	0	0	0	0
11	0	761	4	447	82	23	12	3	1	1	0	0	0	0
12	0	570	3	367	58	14	8	1	1	0	0	0	0	0
13	0	520	3	355	49	8	5	1	1	1	0	0	0	0
14	0	531	3	365	47	9	6	0	3	0	0	0	0	0
15	0	559	3	393	49	16	5	0	0	0	0	0	0	0
16	0	588	3	416	50	12	1	2	3	0	0	0	0	0
17	0	704	4	433	58	12	7	1	5	4	0	0	0	0
18	0	1181	6	449	95	28	15	11	17	8	3	1	0	0
19	0	2267	12	461	101	46	24	21	25	35	11	6	1	1
20	0	3887	20	501	112	62	24	23	53	43	21	24	4	4
21	0	5525	29	521	132	51	37	25	76	51	31	27	14	14
22	0	7308	38	627	171	77	35	36	86	57	36	39	22	22
23	0	8984	47	594	184	95	55	35	89	58	45	47	25	25
24	0	10592	55	545	189	106	57	30	90	85	42	45	34	34

NWFC1408 ADCP 1285

Deployment: NWFC1408 updated 2015/06/25
 Instrument no.: 1285
 Instrument freq.: 75
 Latitude: 61 23.100 N
 Longitude: 08 19.100 W
 Bottom depth: 818
 Instrument depth: 812
 Center depth of first bin: 776
 Bin length: 25
 Number of bins: 24
 Number of first ensemble: 6293
 Time of first ensemble: 2014 08 29 18 20
 Number of last ensemble: 25562
 Time of last ensemble: 2015 05 24 09 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -6.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	776	42	922	914	306	988
2	751	67	981	973	309	969
3	726	92	977	970	311	976
4	701	117	934	927	313	971
5	676	142	850	838	314	962
6	651	167	719	688	315	955
7	626	192	528	453	318	895
8	601	217	382	247	322	921
9	576	242	291	93	330	914
10	551	267	247	19	65	929
11	526	292	224	67	120	961
12	501	317	217	98	128	970
13	476	342	216	115	131	973
14	451	367	216	124	133	972
15	426	392	215	129	134	971
16	401	417	216	134	135	969
17	376	442	218	137	135	963
18	351	467	220	139	136	939
19	326	492	221	139	135	882
20	301	517	222	137	135	798
21	276	542	221	133	135	713
22	251	567	219	129	135	621
23	226	592	218	128	135	534
24	201	617	214	123	137	450

NWFC1408 ADCP 1285

Frequency of high speeds.

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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
1	776	987	986	985	978	967	943	869	727	538	353	188	73	20	4	1	0	0	0	0
2	751	969	968	966	960	949	934	892	801	653	466	288	132	38	6	1	0	0	0	0
3	726	975	974	971	962	948	931	883	788	649	474	298	143	43	7	1	0	0	0	0
4	701	969	966	955	937	910	876	812	712	580	432	269	129	41	8	1	0	0	0	0
5	676	948	923	894	857	816	767	695	597	478	349	220	109	37	9	1	0	0	0	0
6	651	914	845	787	738	684	616	531	433	330	235	157	86	32	7	1	0	0	0	0
7	626	829	712	606	511	426	350	277	209	149	102	66	36	11	2	1	0	0	0	0
8	601	828	629	452	331	250	194	145	102	62	39	22	10	3	1	0	0	0	0	0
9	576	788	550	331	201	132	90	56	29	14	8	3	1	0	0	0	0	0	0	0
10	551	793	522	276	128	62	30	14	6	1	1	0	0	0	0	0	0	0	0	0
11	526	813	509	236	81	25	9	4	0	0	0	0	0	0	0	0	0	0	0	0
12	501	815	505	219	65	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0
13	476	822	502	215	62	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0
14	451	819	499	214	65	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0
15	426	819	498	217	64	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0
16	401	819	500	216	67	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0
17	376	818	495	221	72	16	4	0	0	0	0	0	0	0	0	0	0	0	0	0
18	351	799	483	217	76	18	3	0	0	0	0	0	0	0	0	0	0	0	0	0
19	326	750	458	208	73	18	4	1	0	0	0	0	0	0	0	0	0	0	0	0
20	301	677	416	194	72	17	4	0	0	0	0	0	0	0	0	0	0	0	0	0
21	276	600	366	167	63	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0
22	251	520	316	145	54	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0
23	226	442	270	121	47	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0
24	201	369	219	101	39	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0

NWFC1408 ADCP 1285

Harmonic constants for constituent M2 for deployment NWFC1408.

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	776	14	113	16	292	21	0	132	292	C
02	751	16	107	17	296	23	2	133	292	A
03	726	22	108	24	294	32	2	132	291	A
04	701	25	103	31	295	39	4	128	290	A
05	676	30	104	42	299	52	6	126	294	A
06	651	44	117	50	302	66	3	132	300	A
07	626	48	133	39	311	62	1	141	312	C
08	601	44	164	7	319	45	3	171	343	C
09	576	44	204	28	149	48	21	25	192	A
10	551	51	231	53	158	59	44	48	192	A
11	526	56	249	69	165	69	55	76	176	A
12	501	57	258	74	171	74	57	85	174	A
13	476	58	264	77	175	77	58	88	176	A
14	451	58	269	78	179	78	58	90	179	A
15	426	59	272	79	183	79	59	89	183	A
16	401	61	277	82	185	82	61	92	184	A
17	376	64	281	84	188	84	64	95	184	A
18	351	67	282	86	190	86	67	95	187	A
19	326	68	282	88	192	88	68	92	190	A
20	301	71	283	92	193	92	71	90	193	A
21	276	74	284	93	194	93	74	89	195	A
22	251	74	283	94	194	95	74	87	196	A
23	226	73	285	95	197	95	73	85	201	A
24	201	75	288	100	200	100	75	87	202	A

Harmonic constants for constituent S2 for deployment NWFC1408.

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	776	4	182	3	350	6	1	143	357	C
02	751	6	187	4	358	7	1	148	5	C
03	726	6	179	5	353	8	0	144	357	C
04	701	10	176	8	357	13	0	142	357	A
05	676	18	163	15	358	23	3	140	349	A
06	651	23	164	21	355	31	3	138	349	A
07	626	18	164	12	338	22	1	146	343	C
08	601	11	193	9	252	12	7	37	215	C
09	576	10	257	18	209	20	7	68	217	A
10	551	14	290	28	207	28	14	85	209	A
11	526	16	297	28	206	28	16	90	206	A
12	501	16	302	29	212	29	16	89	213	A
13	476	16	306	29	218	29	16	89	218	A
14	451	18	307	31	221	31	18	86	223	A
15	426	20	311	34	223	34	20	89	223	A
16	401	21	315	37	222	37	21	92	221	A
17	376	21	316	36	223	36	21	92	222	A
18	351	21	318	34	223	34	21	95	221	A
19	326	22	323	33	227	33	22	98	222	A
20	301	24	326	31	228	31	23	104	217	A
21	276	24	325	33	234	33	24	92	232	A
22	251	24	334	35	234	35	24	103	226	A
23	226	24	338	41	236	42	23	101	229	A
24	201	26	336	40	228	41	24	107	218	A

NWFC1408 ADCP 1285

Harmonic constants for constituent N2 for deployment NWFC1408.

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	776	3	59	8	242	8	0	112	242	A
02	751	4	56	10	244	11	1	112	243	A
03	726	6	61	10	254	12	1	121	251	A
04	701	7	59	10	259	12	2	125	252	A
05	676	5	80	10	274	11	1	117	271	A
06	651	7	110	10	277	12	1	125	281	C
07	626	10	116	8	268	13	3	142	285	C
08	601	13	126	4	263	13	3	167	303	C
09	576	11	177	6	150	12	2	26	172	A
10	551	12	199	9	121	12	8	16	188	A
11	526	10	212	10	141	12	8	46	175	A
12	501	10	231	13	149	13	10	73	162	A
13	476	11	245	15	156	15	11	89	157	A
14	451	12	257	17	161	17	12	98	156	A
15	426	12	258	17	161	17	12	99	155	A
16	401	12	262	18	164	18	12	99	158	A
17	376	12	265	18	165	18	12	102	157	A
18	351	10	263	18	167	19	10	95	164	A
19	326	10	261	17	166	17	10	94	164	A
20	301	11	259	18	169	18	11	89	170	A
21	276	12	266	18	170	18	11	96	166	A
22	251	8	260	17	165	17	8	93	163	A
23	226	10	262	20	169	20	10	92	167	A
24	201	12	261	23	161	23	12	97	158	A

Harmonic constants for constituent O1 for deployment NWFC1408.

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	776	11	335	13	144	17	2	130	149	C
02	751	12	334	14	144	18	2	130	148	C
03	726	13	335	16	157	21	0	130	156	A
04	701	18	355	22	173	28	0	129	173	C
05	676	24	359	29	173	38	2	129	176	C
06	651	34	360	33	173	47	3	136	177	C
07	626	35	4	32	176	47	3	138	180	C
08	601	33	12	31	175	44	7	137	184	C
09	576	31	12	27	188	41	2	139	190	C
10	551	24	10	19	197	30	2	141	193	A
11	526	18	24	14	201	23	0	141	203	C
12	501	17	32	13	202	21	2	142	209	C
13	476	15	31	13	204	20	1	141	208	C
14	451	14	22	13	194	20	1	138	198	C
15	426	15	21	15	189	21	2	135	195	C
16	401	16	22	14	186	21	3	138	195	C
17	376	16	22	14	188	21	2	139	196	C
18	351	16	17	15	186	22	2	137	192	C
19	326	17	13	17	179	24	3	135	186	C
20	301	16	10	18	181	24	2	132	185	C
21	276	18	16	19	188	26	2	132	192	C
22	251	13	8	17	185	21	1	128	186	C
23	226	9	3	19	174	21	1	115	176	C
24	201	10	10	14	166	17	3	123	173	C

NWFC1408 ADCP 1285

Harmonic constants for constituent K1 for deployment NWFC1408.

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	776	14	274	15	72	20	4	132	82	C
02	751	15	269	13	73	20	3	139	82	C
03	726	16	269	14	88	21	0	138	89	C
04	701	19	279	20	94	27	1	134	96	C
05	676	28	272	29	91	41	0	134	92	C
06	651	35	261	34	85	48	2	135	83	A
07	626	30	256	29	77	42	1	136	77	A
08	601	23	246	25	76	34	3	133	71	A
09	576	19	245	23	69	30	1	130	68	A
10	551	14	256	21	75	25	0	124	75	C
11	526	13	268	19	80	23	1	123	83	C
12	501	12	269	18	84	22	1	124	85	C
13	476	11	273	18	88	21	1	122	90	C
14	451	11	274	19	89	22	1	121	91	C
15	426	12	279	19	84	22	3	121	88	C
16	401	13	278	21	85	24	2	122	89	C
17	376	13	277	21	86	25	2	121	89	C
18	351	13	276	22	81	26	3	119	85	C
19	326	13	269	20	81	24	1	123	83	C
20	301	14	264	18	74	23	2	127	78	C
21	276	11	280	14	81	18	3	127	88	C
22	251	9	275	14	72	17	3	122	79	C
23	226	7	281	15	77	16	3	114	81	C
24	201	11	237	15	47	18	2	127	51	C

NWNA1406

Latitude: 62°42.153'N

Longitude: 006°05.053'W

Echo sound depth: 297 m

Bottom depth corr.: 300 m

Time of deployment: 5/6 -2014 1842 UTC

Time of recovery: 25/5 - 2015 0949 UTC

ADCP:

Instrument no.: RDI ADCP 1279

Instrument frequency: 150 kHz

Height above bottom: 1m

Depth: 299 m (corr.)

Time of first data: 5/6 – 2014 2000 UTC

Time of last data: 25/5 –2015 0940 UTC

Sample interval: 20 min

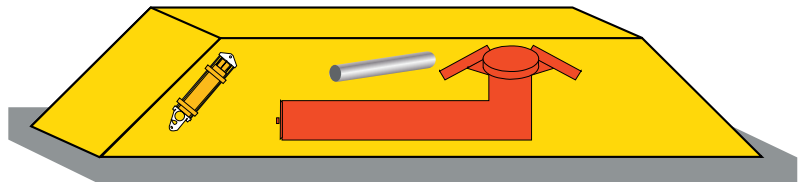
No. of ensembles: 25458

Pings per ens.: 1

Binlength: 10 m

Depth of first bin: 283 m (corr.)

No. of bins: 24



MicroCat

Instrument no.: 0984

Height above bottom: 1 m

Time of first data: 5/6 - 2014 1950 UTC

Time of last data: 25/5 - 2015 0950 UTC

Sample interval: 10 min

No. of ensembles: 50917

Instrument depth: 299 m

Data:

All data ok.

NWNA1406 ADCP 1279

Error statistics for deployment: NWNA1406 updated 2015/09/07

 Temperature edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:

Minimum Intensity:42.0
 Minimum Mean Correlation:50.0
 Maximum Speed, number of std dev for each bin: 5.0
 Maximum Vertical Velocity:150.0
 Maximum Error Velocity (erv_tr+0.1*spd):100.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 4.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 24): 1.53
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 30): 0.20
 Vertical Speed Spikes, u and v deviated from 3 point median by number of std dev: 4.0
 Vertical Velocity Spikes, deviated from 3 point median by number of std dev: 5.0

Total number of ensembles: 25458
 Interval between ensembles: 20 min
 Original number of bins: 30
 Number of acceptable velocity bins: 24

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 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	1904	7	1495	143	34	1	2	1	0	0	0	0	
2	0	2183	9	1566	218	55	4	0	0	0	0	0	0	
3	0	1989	8	1357	206	40	13	6	3	0	0	0	0	
4	0	1762	7	1297	154	28	12	5	0	0	0	0	0	
5	0	1500	6	1088	131	34	8	2	1	0	0	0	0	
6	0	1402	6	986	137	28	12	2	0	0	0	0	0	
7	0	1289	5	904	128	35	6	0	0	0	0	0	0	
8	0	1218	5	805	124	37	12	0	1	0	0	0	0	
9	0	1227	5	808	131	29	9	3	3	0	0	0	0	
10	0	1273	5	801	136	35	11	4	4	0	0	0	0	
11	0	1373	5	791	138	44	19	8	8	0	0	0	0	
12	0	1531	6	781	163	62	27	9	10	1	0	0	0	
13	0	1887	7	822	202	71	34	17	17	4	2	0	0	
14	0	2057	8	771	199	68	39	27	28	13	0	0	0	
15	0	2482	10	812	208	60	44	24	43	13	12	0	0	
16	0	2962	12	814	231	79	40	22	48	30	12	3	0	
17	0	3654	14	845	233	113	53	38	61	29	17	8	0	
18	0	4597	18	928	254	126	67	30	81	40	21	18	0	
19	0	5670	22	920	278	129	67	35	87	49	30	28	3	
20	0	7072	28	895	284	132	74	57	96	53	30	39	13	
21	0	8462	33	884	280	133	70	54	113	65	24	61	16	
22	0	10008	39	908	293	154	60	49	115	74	29	53	38	
23	0	11630	46	901	288	140	74	50	111	68	31	41	56	
24	0	13115	52	880	345	157	99	56	107	61	26	39	58	

NWNA1406 ADCP 1279

Deployment: NWNA1406 updated 2015/09/07
 Instrument no.: 1279
 Instrument freq.: 150
 Latitude: 62 42.153 N
 Longitude: 06 05.053 W
 Bottom depth: 300
 Instrument depth: 299
 Center depth of first bin: 283
 Bin length: 10
 Number of bins: 24
 Number of first ensemble: 178
 Time of first ensemble: 2014 06 05 20 00
 Number of last ensemble: 25635
 Time of last ensemble: 2015 05 25 09 40
 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	283	17	196	111	94	925
2	273	27	210	114	98	914
3	263	37	219	116	101	922
4	253	47	227	123	103	931
5	243	57	233	129	104	941
6	233	67	236	136	105	945
7	223	77	238	142	106	949
8	213	87	239	146	106	952
9	203	97	240	150	106	952
10	193	107	240	154	106	950
11	183	117	240	155	106	946
12	173	127	240	156	106	940
13	163	137	240	158	105	926
14	153	147	241	159	105	919
15	143	157	243	161	105	903
16	133	167	245	163	104	884
17	123	177	247	166	105	856
18	113	187	249	169	104	819
19	103	197	254	174	104	777
20	93	207	259	180	105	722
21	83	217	265	186	104	668
22	73	227	272	193	104	607
23	63	237	278	199	104	543
24	53	247	284	203	104	485

NWNA1406 ADCP 1279

Frequency of high speeds.

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

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Bin Depth	Speed (cm/s)																		
no. m	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
1 283	725	395	166	57	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0
2 273	741	429	193	73	21	5	1	0	0	0	0	0	0	0	0	0	0	0	0
3 263	764	457	216	88	29	8	2	0	0	0	0	0	0	0	0	0	0	0	0
4 253	783	480	237	103	37	11	3	0	0	0	0	0	0	0	0	0	0	0	0
5 243	798	499	255	114	44	13	3	0	0	0	0	0	0	0	0	0	0	0	0
6 233	802	508	263	119	49	15	4	1	0	0	0	0	0	0	0	0	0	0	0
7 223	805	512	270	127	54	18	5	1	0	0	0	0	0	0	0	0	0	0	0
8 213	808	514	269	127	57	18	5	1	0	0	0	0	0	0	0	0	0	0	0
9 203	809	512	273	132	58	20	6	1	0	0	0	0	0	0	0	0	0	0	0
10 193	806	509	275	136	61	21	7	1	0	0	0	0	0	0	0	0	0	0	0
11 183	804	505	273	135	60	22	6	1	0	0	0	0	0	0	0	0	0	0	0
12 173	795	499	272	135	59	21	6	1	0	0	0	0	0	0	0	0	0	0	0
13 163	783	492	270	133	60	21	7	1	0	0	0	0	0	0	0	0	0	0	0
14 153	776	488	269	136	60	22	7	1	0	0	0	0	0	0	0	0	0	0	0
15 143	761	485	270	135	62	23	7	1	0	0	0	0	0	0	0	0	0	0	0
16 133	748	482	266	134	62	22	8	1	0	0	0	0	0	0	0	0	0	0	0
17 123	726	471	264	135	61	23	8	2	0	0	0	0	0	0	0	0	0	0	0
18 113	697	456	258	133	59	23	7	2	0	0	0	0	0	0	0	0	0	0	0
19 103	668	442	249	132	62	24	8	2	0	0	0	0	0	0	0	0	0	0	0
20 93	623	418	243	130	62	24	9	2	1	0	0	0	0	0	0	0	0	0	0
21 83	580	397	237	127	60	25	10	2	1	0	0	0	0	0	0	0	0	0	0
22 73	527	372	226	122	58	25	9	3	1	0	0	0	0	0	0	0	0	0	0
23 63	475	344	214	116	55	23	9	3	1	0	0	0	0	0	0	0	0	0	0
24 53	427	315	198	109	52	23	9	3	1	0	0	0	0	0	0	0	0	0	0

NWNA1406 ADCP 1279

Harmonic constants for constituent M2 for deployment NWNA1406.

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	283	132	294	88	175	141	71	155	127	A
02	273	144	294	102	176	156	83	153	129	A
03	263	153	295	112	178	166	92	152	131	A
04	253	161	295	119	180	174	99	153	132	A
05	243	167	297	122	183	178	104	154	133	A
06	233	170	298	122	185	181	106	155	133	A
07	223	172	300	121	187	182	106	157	134	A
08	213	173	301	120	190	181	107	158	135	A
09	203	172	303	117	193	180	106	159	136	A
10	193	172	304	115	196	178	105	161	136	A
11	183	172	306	113	198	177	104	162	137	A
12	173	171	307	110	200	176	102	164	137	A
13	163	170	309	108	202	175	101	164	139	A
14	153	169	311	107	204	173	100	164	140	A
15	143	170	312	105	206	173	98	165	140	A
16	133	169	313	103	207	172	97	166	141	A
17	123	167	315	101	209	170	95	166	142	A
18	113	165	316	99	211	168	94	167	144	A
19	103	165	318	97	214	167	93	169	144	A
20	93	161	320	94	217	163	91	169	146	A
21	83	162	322	93	221	163	91	171	146	A
22	73	162	324	92	225	163	90	173	149	A
23	63	163	326	93	229	164	91	174	150	A
24	53	164	328	93	232	165	92	175	151	A

Harmonic constants for constituent S2 for deployment NWNA1406.

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	283	49	339	33	225	51	28	157	172	A
02	273	52	336	39	225	55	34	154	173	A
03	263	54	336	44	226	58	38	151	176	A
04	253	58	337	45	225	62	39	152	175	A
05	243	62	338	47	225	66	40	153	175	A
06	233	65	340	46	226	69	40	156	174	A
07	223	67	341	46	230	71	41	159	174	A
08	213	68	343	45	233	71	40	161	174	A
09	203	69	344	44	234	71	40	162	175	A
10	193	70	345	43	236	72	39	164	174	A
11	183	71	347	42	237	73	38	164	175	A
12	173	71	349	41	239	72	38	165	177	A
13	163	70	349	40	240	72	37	165	176	A
14	153	70	350	39	242	71	36	166	178	A
15	143	69	353	38	243	70	35	166	180	A
16	133	67	354	37	243	69	34	166	181	A
17	123	66	356	37	245	68	33	165	183	A
18	113	65	356	35	247	67	33	167	183	A
19	103	62	358	35	249	64	32	166	185	A
20	93	60	360	32	252	61	30	168	186	A
21	83	59	360	32	254	60	30	169	185	A
22	73	57	0	30	258	58	29	172	185	A
23	63	55	4	27	264	55	27	173	187	A
24	53	50	5	29	268	50	29	174	188	A

NWNA1406 ADCP 1279

Harmonic constants for constituent N2 for deployment NWNA1406.

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	283	21	271	16	124	25	7	143	103	A
02	273	23	269	18	129	28	10	145	102	A
03	263	26	267	18	131	29	11	148	101	A
04	253	27	264	21	135	31	14	146	101	A
05	243	30	266	22	138	34	15	149	101	A
06	233	32	268	23	141	36	16	150	103	A
07	223	33	271	23	147	37	18	152	105	A
08	213	34	272	24	150	37	18	152	107	A
09	203	35	277	25	153	39	19	151	112	A
10	193	36	278	25	156	39	20	152	113	A
11	183	37	280	25	159	40	20	153	114	A
12	173	39	282	27	163	42	22	154	116	A
13	163	39	283	26	164	42	22	155	117	A
14	153	40	286	26	170	42	22	158	118	A
15	143	41	288	26	174	43	22	160	118	A
16	133	41	292	26	177	43	22	159	123	A
17	123	41	294	26	182	43	23	161	125	A
18	113	41	297	26	186	42	24	160	128	A
19	103	42	299	25	188	43	23	162	129	A
20	93	43	300	24	192	44	23	166	127	A
21	83	43	300	23	196	43	22	170	125	A
22	73	41	305	23	198	42	22	167	132	A
23	63	42	307	19	195	43	17	168	132	A
24	53	41	308	17	208	42	17	175	130	A

Harmonic constants for constituent O1 for deployment NWNA1406.

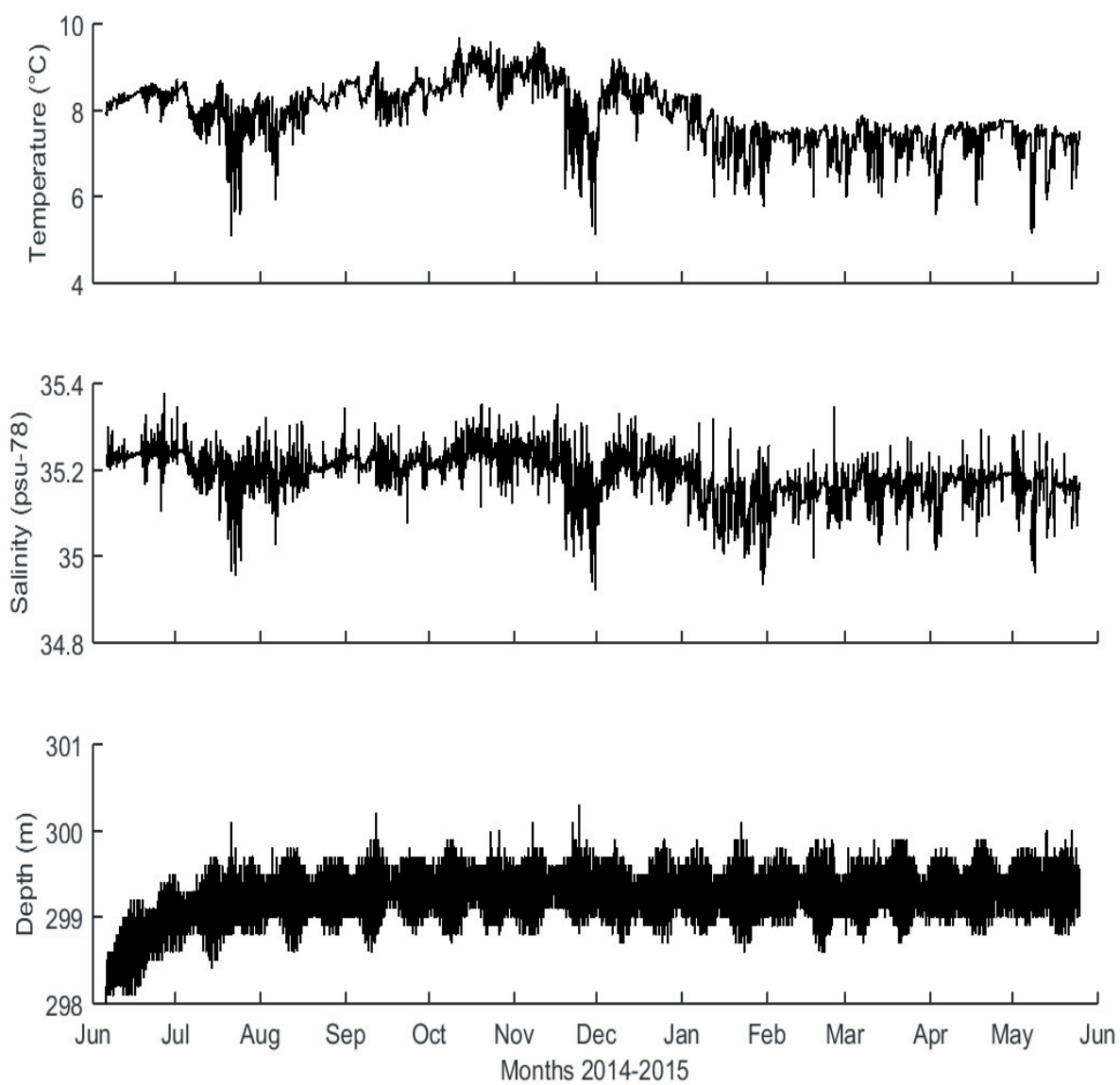
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	283	26	47	12	294	26	11	168	232	A
02	273	26	42	13	291	27	12	168	227	A
03	263	28	40	14	293	29	13	169	226	A
04	253	27	40	15	292	27	14	167	227	A
05	243	26	39	14	295	26	13	170	224	A
06	233	26	37	14	290	27	13	168	224	A
07	223	27	37	15	290	28	14	168	223	A
08	213	27	37	15	291	28	14	168	223	A
09	203	28	40	15	288	29	14	166	227	A
10	193	29	39	16	284	30	14	164	227	A
11	183	30	41	16	285	31	14	163	229	A
12	173	30	42	16	283	31	13	163	229	A
13	163	31	42	16	281	32	13	162	230	A
14	153	31	43	16	283	32	13	162	230	A
15	143	31	44	18	283	32	14	160	233	A
16	133	30	45	18	280	32	14	157	235	A
17	123	30	47	18	280	32	13	156	237	A
18	113	28	47	19	285	31	15	153	241	A
19	103	29	48	21	278	33	14	149	242	A
20	93	28	49	20	279	31	14	148	244	A
21	83	28	50	19	284	31	14	152	244	A
22	73	27	44	19	280	30	14	152	239	A
23	63	28	45	21	281	31	15	149	242	A
24	53	30	51	22	279	35	14	148	245	A

NWNA1406 ADCP 1279

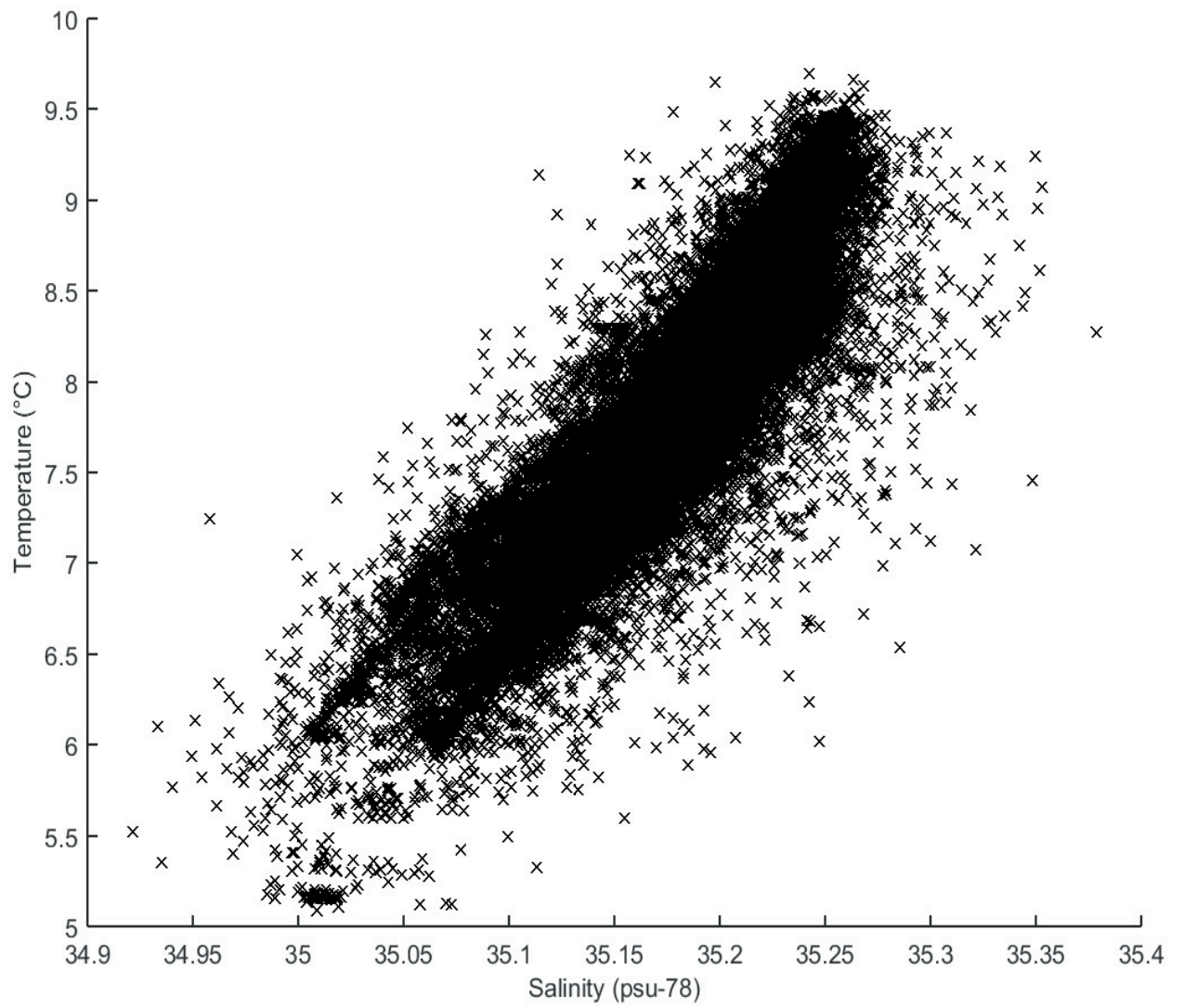
Harmonic constants for constituent K1 for deployment NWNA1406.

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	283	28	273	18	194	28	18	12	265	A
02	273	30	280	22	191	30	22	2	279	A
03	263	35	280	22	187	35	22	177	103	A
04	253	36	278	20	180	36	20	173	102	A
05	243	34	272	20	179	34	20	177	93	A
06	233	34	272	20	177	34	20	175	94	A
07	223	34	270	20	175	34	20	175	92	A
08	213	35	270	21	174	35	21	175	93	A
09	203	37	270	22	174	37	22	175	93	A
10	193	38	269	22	171	38	21	173	93	A
11	183	39	267	21	170	40	21	174	91	A
12	173	41	265	22	169	41	22	176	87	A
13	163	42	263	21	167	42	21	176	85	A
14	153	45	260	21	166	45	21	178	81	A
15	143	46	258	22	166	46	22	179	79	A
16	133	47	258	21	164	47	21	178	78	A
17	123	48	259	21	164	48	21	177	81	A
18	113	46	257	20	164	46	20	178	78	A
19	103	44	257	21	164	44	21	178	78	A
20	93	42	252	22	164	42	22	2	251	A
21	83	41	252	20	163	41	20	1	252	A
22	73	37	254	19	172	37	19	5	252	A
23	63	36	262	20	171	36	20	180	82	A
24	53	37	258	18	168	37	18	0	258	A

NWNA1406 MicroCat 0984



NWNA1406 MicroCat 0984



NWNB1406

Latitude: 62°54.960'N

Longitude: 006°05.010'W

Echo sounding depth: 974 m

Bottom depth corr.: 958 m

Time of deployment: 5/6 - 2014 2342 UTC

Time of recovery: 25/5 - 2015 1141 UTC

ADCP:

Instrument no.: RDI ADCP 19518

Instrument frequency: 75 kHz

Height above bottom: 253 m (corr.)

Depth: 705 m (corr.)

Time of first data: 6/6 - 2014 0040 UTC

Time of last data: 25/5 - 2015 1100 UTC

Sample interval: 20 min

No. of ensembles: 25448

Pings per ens.: 10

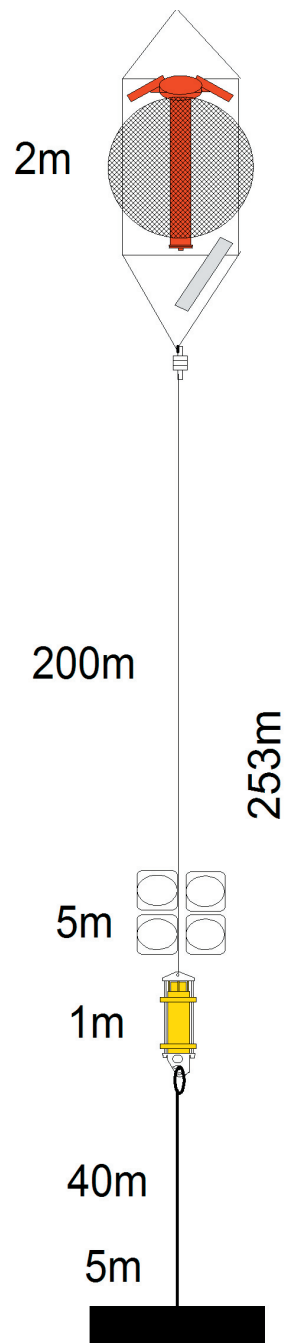
Binlength: 10 m

Depth of first bin: 686 m (corr.)

No. of bins: 63

Data:

All data ok.



NWNB1406 ADCP 19518

Error statistics for deployment: NWNB1406 updated 2015/09/09

 Temperature edited
 Depth edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:
 Minimum Intensity:50.0
 Minimum Mean Correlation:64.0
 Maximum Speed, number of std dev for each bin: 6.0
 Maximum Vertical Velocity:150.0
 Maximum Error Velocity (erv tr+0.1*spd):100.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 5.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 63): 3.32
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 70): 3.00
 Vertical Speed Spikes, u and v deviated from 3 point median by number of std dev: 4.0

At the end of the period, the instrument is occasionally dragged down by up to 30 meters

Total number of ensembles: 25448
 Interval between ensembles: 20 min
 Original number of bins: 70
 Number of acceptable velocity bins: 63

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

Number of depth ens. flagged : 0
 Number of temperature ens. flagged: 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	57	0	57	0	0	0	0	0	0	0	0	0	0	0
2	0	47	0	47	0	0	0	0	0	0	0	0	0	0	0
3	0	36	0	36	0	0	0	0	0	0	0	0	0	0	0
4	0	55	0	55	0	0	0	0	0	0	0	0	0	0	0
5	0	56	0	56	0	0	0	0	0	0	0	0	0	0	0
6	0	44	0	40	2	0	0	0	0	0	0	0	0	0	0
7	0	39	0	39	0	0	0	0	0	0	0	0	0	0	0
8	0	54	0	54	0	0	0	0	0	0	0	0	0	0	0
9	0	37	0	35	1	0	0	0	0	0	0	0	0	0	0
10	0	46	0	46	0	0	0	0	0	0	0	0	0	0	0
11	0	35	0	33	1	0	0	0	0	0	0	0	0	0	0
12	0	37	0	35	1	0	0	0	0	0	0	0	0	0	0
13	0	52	0	52	0	0	0	0	0	0	0	0	0	0	0
14	0	53	0	51	1	0	0	0	0	0	0	0	0	0	0
15	0	45	0	45	0	0	0	0	0	0	0	0	0	0	0
16	0	54	0	52	1	0	0	0	0	0	0	0	0	0	0
17	0	58	0	58	0	0	0	0	0	0	0	0	0	0	0
18	0	49	0	49	0	0	0	0	0	0	0	0	0	0	0
19	0	62	0	60	1	0	0	0	0	0	0	0	0	0	0
20	0	44	0	42	1	1	0	0	0	0	0	0	0	0	0
21	0	51	0	49	1	1	0	0	0	0	0	0	0	0	0
22	0	64	0	60	2	2	0	0	0	0	0	0	0	0	0
23	0	52	0	52	0	0	0	0	0	0	0	0	0	0	0
24	0	52	0	52	0	0	0	0	0	0	0	0	0	0	0
25	0	52	0	52	0	0	0	0	0	0	0	0	0	0	0
26	0	59	0	56	4	1	0	0	0	0	0	0	0	0	0
27	0	77	0	73	3	0	0	0	0	0	0	0	0	0	0
28	0	88	0	83	3	0	0	0	0	0	0	0	0	0	0
29	0	99	0	70	5	0	0	0	0	0	0	0	0	0	0
30	0	100	0	77	2	0	0	0	0	0	0	0	0	0	0
31	0	88	0	96	5	0	0	0	0	0	0	0	0	0	0
32	0	83	0	78	3	0	0	0	0	0	0	0	0	0	0
33	0	121	0	105	8	0	0	0	0	0	0	0	0	0	0
34	0	102	0	94	4	0	0	0	0	0	0	0	0	0	0
35	0	120	0	114	3	0	0	0	0	0	0	0	0	0	0
36	0	126	0	112	7	0	0	0	0	0	0	0	0	0	0
37	0	104	0	96	4	0	0	0	0	0	0	0	0	0	0
38	0	103	0	95	4	0	0	0	0	0	0	0	0	0	0
39	0	137	0	127	5	0	0	0	0	0	0	0	0	0	0
40	0	136	0	110	6	2	0	0	0	0	0	0	0	0	0
41	0	214	0	140	1	2	0	2	2	0	0	0	0	0	0
42	0	293	0	121	2	7	0	2	2	3	0	0	0	0	0
43	0	459	0	136	2	0	1	5	4	8	0	0	0	0	0
44	0	654	0	140	2	0	1	10	5	1	1	0	0	0	0
45	0	849	0	133	2	0	1	11	11	1	1	0	0	0	0
46	0	1159	0	132	2	0	1	10	9	5	7	0	0	0	0
47	0	1423	0	133	4	0	1	11	8	1	1	0	0	0	0
48	0	1768	0	131	3	0	1	11	9	1	1	0	0	0	0
49	0	2177	0	167	3	0	2	11	11	8	1	0	0	0	0
50	0	2633	0	169	3	0	1	12	12	15	2	0	0	0	0
51	0	3074	0	169	4	0	1	16	16	26	2	0	0	0	0
52	0	3598	0	218	5	0	2	17	14	36	3	0	0	0	0
53	0	4102	0	210	4	0	3	15	11	44	4	0	0	0	10
54	0	4690	0	244	6	0	2	20	9	43	5	0	0	0	11
55	0	5271	0	249	5	0	2	20	11	55	4	0	0	0	12
56	0	5915	0	282	6	0	3	13	11	67	6	0	0	0	11
57	0	6433	0	354	6	0	2	30	12	67	4	0	0	0	17
58	0	7022	0	362	8	0	3	17	9	59	4	0	0	0	20
59	0	7796	0	406	8	0	4	25	10	55	5	0	0	0	20
60	0	8527	0	408	1	0	5	28	18	47	5	0	0	0	28
61	0	9374	0	508	1	0	5	36	23	62	4	0	0	0	32
62	0	10259	0	654	1	0	6	22	27	44	4	0	0	0	34
63	0	12790	0	1029	2	0	7	64	31	59	4	0	0	0	57

NWNB1406 ADCP 19518

Deployment: NWNB1406 updated 2015/09/09
 Instrument no.: 19518
 Instrument freq.: 75
 Latitude: 62 54.960 N
 Longitude: 06 05.010 W
 Bottom depth: 958
 Instrument depth: 705
 Center depth of first bin: 686
 Bin length: 10
 Number of bins: 63
 Number of first ensemble: 471
 Time of first ensemble: 2014 06 06 00 40
 Number of last ensemble: 25918
 Time of last ensemble: 2015 05 25 11 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	686	272	135	36	94	998
2	676	282	129	33	91	998
3	666	292	129	31	90	999
4	656	302	129	30	91	998
5	646	312	129	28	90	999
6	636	322	130	27	89	998
7	626	332	129	26	89	998
8	616	342	130	24	88	998
9	606	352	131	22	90	999
10	596	362	131	21	91	998
11	586	372	131	20	90	999
12	576	382	131	19	89	999
13	566	392	132	18	88	998
14	556	402	133	17	86	998
15	546	412	134	17	86	998
16	536	422	136	16	86	998
17	526	432	137	15	83	998
18	516	442	140	16	86	998
19	506	452	142	17	87	998
20	496	462	145	19	91	998
21	486	472	149	21	91	998
22	476	482	152	24	93	997
23	466	492	155	27	95	998
24	456	502	158	30	98	997
25	446	512	161	34	99	998
26	436	522	165	41	98	997
27	426	532	170	47	100	997
28	416	542	174	53	100	997
29	406	552	180	60	100	997
30	396	562	186	67	102	997
31	386	572	191	74	102	996
32	376	582	196	82	103	997
33	366	592	201	89	103	995
34	356	602	206	97	104	996
35	346	612	211	105	104	995
36	336	622	216	113	104	995
37	326	632	222	120	104	996
38	316	642	228	128	104	996
39	306	652	235	136	104	995
40	296	662	241	143	104	995
41	286	672	247	149	104	992
42	276	682	252	154	105	988
43	266	692	257	159	105	982
44	256	702	263	165	105	974
45	246	712	268	169	106	967
46	236	722	273	173	106	954
47	226	732	276	177	105	944
48	216	742	278	179	105	931
49	206	752	281	182	105	914
50	196	762	283	185	105	896
51	186	772	287	188	105	879
52	176	782	291	191	105	859
53	166	792	295	195	105	839
54	156	802	298	197	105	816
55	146	812	302	200	105	793
56	136	822	306	203	106	768
57	126	832	310	206	106	747
58	116	842	313	209	106	724
59	106	852	316	210	106	694
60	96	862	318	211	106	665
61	86	872	319	209	106	632
62	76	882	319	207	106	597
63	66	892	311	194	104	497

NWNB1406 ADCP 19518

Frequency of high speeds.

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

Bin no.	Depth m	Speed (cm/s)																	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1	686	597	192	47	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0
2	676	571	175	41	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	666	571	172	39	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0
4	656	573	172	39	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0
5	646	574	173	37	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6	636	575	176	38	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
7	626	579	172	38	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8	616	584	175	38	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9	606	589	176	37	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
10	596	585	178	39	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
11	586	588	176	38	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	576	590	175	39	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
13	566	591	177	40	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0
14	556	598	185	42	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
15	546	607	190	43	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
16	536	616	193	44	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	526	627	200	43	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
18	516	634	208	48	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
19	506	643	222	50	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
20	496	658	236	56	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0
21	486	675	250	60	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0
22	476	684	263	64	13	3	0	0	0	0	0	0	0	0	0	0	0	0	0
23	466	693	273	69	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0
24	456	703	286	76	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0
25	446	716	298	79	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0
26	436	721	317	90	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0
27	426	735	334	100	25	5	1	0	0	0	0	0	0	0	0	0	0	0	0
28	416	747	353	108	29	6	1	0	0	0	0	0	0	0	0	0	0	0	0
29	406	762	373	122	33	7	1	0	0	0	0	0	0	0	0	0	0	0	0
30	396	777	395	140	39	9	1	0	0	0	0	0	0	0	0	0	0	0	0
31	386	786	413	151	46	11	2	0	0	0	0	0	0	0	0	0	0	0	0
32	376	792	428	166	54	13	2	0	0	0	0	0	0	0	0	0	0	0	0
33	366	801	445	180	62	17	2	0	0	0	0	0	0	0	0	0	0	0	0
34	356	808	460	196	68	20	3	0	0	0	0	0	0	0	0	0	0	0	0
35	346	814	477	214	74	24	4	0	0	0	0	0	0	0	0	0	0	0	0
36	336	826	492	226	81	28	6	1	0	0	0	0	0	0	0	0	0	0	0
37	326	831	512	241	93	31	8	1	0	0	0	0	0	0	0	0	0	0	0
38	316	839	532	262	105	38	9	1	0	0	0	0	0	0	0	0	0	0	0
39	306	846	551	277	116	44	11	2	0	0	0	0	0	0	0	0	0	0	0
40	296	852	563	294	130	47	14	2	0	0	0	0	0	0	0	0	0	0	0
41	286	858	578	310	142	53	15	3	0	0	0	0	0	0	0	0	0	0	0
42	276	862	588	320	148	58	18	3	0	0	0	0	0	0	0	0	0	0	0
43	266	860	601	333	158	63	20	4	0	0	0	0	0	0	0	0	0	0	0
44	256	861	605	346	171	73	24	5	1	0	0	0	0	0	0	0	0	0	0
45	246	856	608	353	180	81	27	6	1	0	0	0	0	0	0	0	0	0	0
46	236	849	612	361	185	86	30	7	1	0	0	0	0	0	0	0	0	0	0
47	226	841	607	363	191	91	32	8	1	0	0	0	0	0	0	0	0	0	0
48	216	832	600	366	196	94	32	8	1	0	0	0	0	0	0	0	0	0	0
49	206	816	593	365	200	98	35	9	2	0	0	0	0	0	0	0	0	0	0
50	196	801	581	364	200	99	37	9	2	0	0	0	0	0	0	0	0	0	0
51	186	789	575	361	206	104	40	10	2	0	0	0	0	0	0	0	0	0	0
52	176	773	567	358	209	107	41	11	2	0	0	0	0	0	0	0	0	0	0
53	166	758	562	354	210	109	45	14	3	0	0	0	0	0	0	0	0	0	0
54	156	740	547	349	209	111	48	17	4	0	0	0	0	0	0	0	0	0	0
55	146	722	539	346	207	113	51	19	5	1	0	0	0	0	0	0	0	0	0
56	136	699	526	340	206	117	54	22	6	1	0	0	0	0	0	0	0	0	0
57	126	678	511	336	206	118	57	24	9	2	0	0	0	0	0	0	0	0	0
58	116	657	495	328	206	120	62	26	9	3	0	0	0	0	0	0	0	0	0
59	106	630	476	317	200	120	64	29	12	3	0	0	0	0	0	0	0	0	0
60	96	600	456	304	194	120	66	29	12	3	0	0	0	0	0	0	0	0	0
61	86	571	434	288	185	115	64	30	11	4	1	0	0	0	0	0	0	0	0
62	76	538	409	274	173	109	60	29	11	4	1	0	0	0	0	0	0	0	0
63	66	447	332	218	138	84	46	22	9	3	1	0	0	0	0	0	0	0	0

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Harmonic constants for constituent M2 for deployment NWNB1406.

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	686	68	262	42	112	78	18	150	90	A
02	676	68	263	39	115	76	18	152	90	A
03	666	69	264	38	117	76	18	153	91	A
04	656	70	265	38	118	77	19	154	92	A
05	646	70	266	38	119	78	19	154	92	A
06	636	71	266	38	121	78	20	155	92	A
07	626	72	266	36	123	78	20	156	93	A
08	616	72	267	37	125	79	21	156	94	A
09	606	73	267	38	127	80	23	156	94	A
10	596	75	268	37	129	80	23	158	95	A
11	586	76	269	37	132	81	23	159	96	A
12	576	78	270	36	136	83	24	161	96	A
13	566	79	271	36	139	83	25	161	97	A
14	556	82	272	36	141	85	26	162	98	A
15	546	83	273	36	145	86	27	163	98	A
16	536	84	274	36	149	87	29	165	99	A
17	526	87	275	35	154	89	30	167	99	A
18	516	89	276	36	160	91	32	168	100	A
19	506	91	278	38	165	93	34	169	102	A
20	496	95	279	39	171	96	37	171	103	A
21	486	98	281	42	175	99	40	172	104	A
22	476	101	282	44	181	102	43	174	105	A
23	466	104	284	46	187	104	46	176	106	A
24	456	107	286	49	193	107	48	178	107	A
25	446	109	288	50	198	109	50	0	288	A
26	436	111	290	53	203	111	53	2	289	A
27	426	112	292	55	207	112	55	3	290	A
28	416	115	294	57	209	115	56	4	292	A
29	406	117	294	58	212	117	57	5	292	A
30	396	118	295	59	213	119	58	5	293	A
31	386	120	297	61	216	120	60	6	293	A
32	376	120	298	62	219	121	60	7	294	A
33	366	122	299	63	221	123	61	8	295	A
34	356	123	301	63	225	124	61	9	296	A
35	346	122	302	64	227	123	61	11	297	A
36	336	121	304	65	230	123	61	11	298	A
37	326	120	305	67	233	122	62	13	298	A
38	316	120	307	67	235	123	62	13	300	A
39	306	121	308	68	237	124	63	14	301	A
40	296	121	309	69	239	124	64	15	302	A
41	286	122	311	71	240	125	65	15	302	A
42	276	123	311	72	242	126	66	16	303	A
43	266	123	312	73	243	127	67	17	303	A
44	256	126	312	76	244	130	68	17	303	A
45	246	127	313	77	244	131	70	18	304	A
46	236	128	315	79	245	132	72	17	305	A
47	226	128	316	82	246	133	74	19	305	A
48	216	126	316	83	248	132	73	21	304	A
49	206	127	317	84	249	133	74	21	305	A
50	196	127	317	85	252	134	73	23	305	A
51	186	127	319	87	253	135	75	23	306	A
52	176	129	320	88	254	136	76	23	307	A
53	166	131	320	90	253	138	78	23	306	A
54	156	131	320	91	253	138	79	23	306	A
55	146	129	320	91	253	137	80	24	306	A
56	136	129	320	90	252	137	79	23	306	A
57	126	128	320	92	253	136	80	24	305	A
58	116	127	321	91	252	134	80	23	306	A
59	106	126	320	88	251	132	79	22	307	A
60	96	124	320	87	251	130	77	23	306	A
61	86	121	319	81	251	126	71	21	307	A
62	76	116	319	76	251	121	68	20	307	A
63	66	108	319	72	253	113	63	22	306	A

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Harmonic constants for constituent S2 for deployment NWNB1406.

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	686	25	301	17	175	28	13	152	135	A
02	676	25	303	16	176	27	12	153	135	A
03	666	26	302	17	174	28	12	152	135	A
04	656	26	299	18	175	29	14	152	133	A
05	646	27	298	19	174	30	15	150	134	A
06	636	27	297	20	173	31	15	149	134	A
07	626	28	297	20	174	31	15	150	133	A
08	616	28	296	20	174	31	16	151	132	A
09	606	28	297	20	173	31	15	150	133	A
10	596	28	298	20	175	31	15	152	132	A
11	586	29	299	19	176	31	15	154	132	A
12	576	30	300	20	179	32	16	155	132	A
13	566	29	299	19	181	31	16	156	132	A
14	556	31	300	19	183	33	16	159	132	A
15	546	32	300	19	183	34	16	159	131	A
16	536	31	303	18	184	33	15	161	132	A
17	526	31	305	16	186	32	14	162	133	A
18	516	30	308	15	190	31	13	164	134	A
19	506	30	309	15	194	31	13	166	135	A
20	496	31	312	14	199	31	13	168	137	A
21	486	30	316	14	207	30	13	169	141	A
22	476	30	319	14	211	31	13	170	143	A
23	466	31	319	14	215	31	14	172	143	A
24	456	31	322	14	217	32	13	172	145	A
25	446	33	325	13	225	33	13	175	147	A
26	436	34	326	15	233	34	15	179	146	A
27	426	36	329	16	242	36	16	2	328	A
28	416	37	330	18	251	37	17	6	328	A
29	406	39	332	19	254	39	19	8	328	A
30	396	41	334	21	255	41	21	7	331	A
31	386	40	339	22	257	40	22	6	335	A
32	376	40	341	21	261	40	21	7	337	A
33	366	41	344	21	264	41	21	7	340	A
34	356	40	344	21	266	41	20	8	340	A
35	346	40	344	22	268	41	21	10	339	A
36	336	40	347	22	272	41	21	12	341	A
37	326	41	349	23	275	42	21	12	343	A
38	316	42	351	24	279	43	22	14	343	A
39	306	42	351	25	281	43	23	17	342	A
40	296	42	354	26	286	44	24	18	344	A
41	286	43	356	27	289	45	24	20	346	A
42	276	43	358	27	290	45	24	19	348	A
43	266	42	0	29	292	45	25	22	348	A
44	256	44	2	29	295	46	26	21	349	A
45	246	45	2	30	298	48	26	24	348	A
46	236	45	2	30	298	48	25	23	349	A
47	226	45	360	30	300	48	24	25	347	A
48	216	44	1	29	298	47	24	24	348	A
49	206	42	1	27	299	45	23	23	348	A
50	196	41	2	29	301	44	23	27	347	A
51	186	40	4	29	305	44	22	28	348	A
52	176	42	6	30	305	45	24	28	351	A
53	166	44	8	34	307	49	27	32	349	A
54	156	43	10	36	306	48	29	33	348	A
55	146	45	10	37	309	51	29	33	349	A
56	136	46	7	38	309	52	28	35	347	A
57	126	48	8	39	307	54	30	33	348	A
58	116	51	8	39	308	57	31	31	350	A
59	106	51	8	37	308	56	30	29	352	A
60	96	55	9	37	306	58	30	24	356	A
61	86	55	10	35	303	57	31	19	360	A
62	76	54	7	34	303	57	29	21	356	A
63	66	56	8	33	303	58	29	19	358	A

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Harmonic constants for constituent N2 for deployment NWNB1406.

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	686	17	227	12	96	19	8	149	61	A
02	676	16	229	13	100	19	8	147	66	A
03	666	17	228	12	99	19	8	150	62	A
04	656	18	230	13	104	20	9	151	65	A
05	646	18	232	13	106	20	9	150	67	A
06	636	18	232	12	109	20	10	153	66	A
07	626	19	233	13	108	21	9	153	66	A
08	616	20	233	12	109	21	9	155	65	A
09	606	19	235	12	109	21	9	154	67	A
10	596	19	234	12	111	21	10	155	66	A
11	586	19	236	12	110	20	9	153	68	A
12	576	19	236	12	113	20	9	155	68	A
13	566	19	238	12	116	20	10	156	70	A
14	556	19	239	13	121	20	10	155	73	A
15	546	20	241	13	124	21	11	158	73	A
16	536	21	242	13	130	22	11	163	71	A
17	526	21	244	13	135	22	12	163	73	A
18	516	21	248	12	140	21	12	165	76	A
19	506	21	248	11	140	21	11	167	75	A
20	496	20	250	11	143	21	10	168	76	A
21	486	20	249	10	144	20	9	171	73	A
22	476	20	253	9	156	20	9	176	75	A
23	466	21	257	9	159	21	9	175	80	A
24	456	20	259	9	168	20	9	179	80	A
25	446	19	260	8	174	19	8	2	260	A
26	436	21	264	9	185	21	9	6	262	A
27	426	21	267	10	186	21	10	5	265	A
28	416	21	270	10	192	21	10	7	267	A
29	406	21	270	9	198	22	9	9	266	A
30	396	22	273	10	194	22	10	6	270	A
31	386	21	272	8	196	21	8	6	270	A
32	376	20	271	8	204	20	7	10	268	A
33	366	20	270	8	209	20	7	13	265	A
34	356	20	271	9	214	21	8	16	265	A
35	346	21	277	10	213	21	9	16	270	A
36	336	21	281	11	220	22	9	17	273	A
37	326	21	286	12	231	22	9	21	277	A
38	316	20	290	12	234	22	9	23	280	A
39	306	21	297	13	240	22	10	24	285	A
40	296	22	300	15	239	23	12	25	287	A
41	286	22	303	16	245	24	12	29	287	A
42	276	22	307	17	248	25	13	31	289	A
43	266	22	309	20	253	26	14	40	285	A
44	256	24	308	21	251	28	15	37	286	A
45	246	26	308	21	248	29	16	34	288	A
46	236	27	305	21	244	30	17	32	286	A
47	226	27	302	22	239	30	18	34	281	A
48	216	28	299	20	232	29	17	26	283	A
49	206	28	297	21	229	30	18	25	281	A
50	196	28	294	18	223	29	17	18	283	A
51	186	28	290	19	218	29	17	19	278	A
52	176	27	289	19	220	29	17	22	276	A
53	166	28	289	18	222	29	16	19	279	A
54	156	28	288	17	227	30	14	21	278	A
55	146	26	287	18	230	28	13	27	273	A
56	136	28	294	18	236	31	15	25	281	A
57	126	30	291	19	240	33	14	27	279	A
58	116	33	294	21	238	35	16	25	283	A
59	106	34	293	22	232	36	18	25	280	A
60	96	34	291	23	230	36	19	25	278	A
61	86	28	297	23	238	32	17	34	277	A
62	76	25	299	22	241	29	16	38	276	A
63	66	22	296	22	241	27	14	45	269	A

NWNB1406 ADCP 19518

Harmonic constants for constituent O1 for deployment NWNB1406.

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	686	3	32	6	272	6	3	107	264	A
02	676	3	24	6	266	6	2	107	259	A
03	666	2	32	5	267	5	2	105	263	A
04	656	2	62	5	275	5	1	110	271	A
05	646	3	34	4	266	5	2	115	255	A
06	636	3	50	4	272	4	1	119	261	A
07	626	2	55	4	272	5	1	116	265	A
08	616	3	37	4	284	4	2	113	270	A
09	606	3	33	4	269	4	2	115	257	A
10	596	3	50	4	271	5	2	120	260	A
11	586	3	50	4	276	5	2	120	263	A
12	576	4	41	4	270	5	2	127	251	A
13	566	4	39	5	275	6	3	127	253	A
14	556	3	34	5	276	5	3	117	261	A
15	546	4	33	5	277	6	3	117	261	A
16	536	3	43	5	268	6	2	119	257	A
17	526	5	34	6	263	7	3	130	242	A
18	516	5	43	7	262	8	3	124	249	A
19	506	5	33	5	265	7	3	130	242	A
20	496	6	26	6	276	6	5	134	242	A
21	486	5	19	4	277	5	4	140	233	A
22	476	6	17	5	286	6	5	176	201	A
23	466	6	23	5	295	6	5	6	18	A
24	456	7	23	5	296	7	5	5	19	A
25	446	7	28	6	278	8	5	146	233	A
26	436	8	24	6	271	9	5	150	224	A
27	426	9	22	6	269	10	5	159	214	A
28	416	9	27	6	274	10	5	161	218	A
29	406	8	31	7	281	9	6	153	229	A
30	396	9	26	6	292	9	6	175	209	A
31	386	9	33	6	293	9	6	170	219	A
32	376	10	31	5	292	10	5	174	214	A
33	366	10	28	6	283	10	5	168	215	A
34	356	9	22	5	280	9	5	170	208	A
35	346	10	20	6	289	10	6	179	200	A
36	336	12	19	6	288	12	6	179	200	A
37	326	12	14	7	291	12	7	7	10	A
38	316	13	17	8	281	13	8	174	201	A
39	306	12	18	9	282	12	9	170	205	A
40	296	12	22	9	278	13	9	159	218	A
41	286	13	29	11	278	14	9	148	232	A
42	276	13	32	9	287	13	8	165	221	A
43	266	15	34	9	273	16	7	158	225	A
44	256	17	31	8	267	17	6	163	218	A
45	246	17	30	8	280	17	8	168	216	A
46	236	18	37	8	284	18	7	169	221	A
47	226	18	37	7	293	18	7	173	219	A
48	216	18	36	8	295	18	8	174	219	A
49	206	19	40	9	300	19	9	174	223	A
50	196	20	43	10	311	20	10	179	224	A
51	186	20	44	11	318	20	11	3	42	A
52	176	20	44	11	331	21	10	11	39	A
53	166	21	48	13	322	21	13	4	46	A
54	156	18	41	14	326	19	13	21	27	A
55	146	19	44	15	323	19	15	16	32	A
56	136	19	48	17	325	20	17	19	32	A
57	126	20	49	18	330	21	17	36	18	A
58	116	20	50	18	317	21	18	171	238	A
59	106	20	46	19	320	21	19	22	26	A
60	96	22	51	19	319	23	19	171	238	A
61	86	24	49	25	326	26	23	52	1	A
62	76	25	43	29	323	30	23	65	343	A
63	66	16	53	28	327	28	16	87	329	A

NWNB1406 ADCP 19518

Harmonic constants for constituent K1 for deployment NWNB1406.

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	686	5	248	6	153	6	5	102	144	A
02	676	5	255	6	159	6	5	108	143	A
03	666	5	263	6	153	6	4	123	129	A
04	656	4	257	6	157	6	4	106	145	A
05	646	5	274	5	155	6	3	133	126	A
06	636	4	269	5	152	6	3	120	133	A
07	626	4	270	5	149	6	3	122	130	A
08	616	4	271	5	143	6	3	126	124	A
09	606	5	277	5	143	7	3	137	118	A
10	596	5	270	5	145	6	3	134	118	A
11	586	6	270	6	144	7	4	135	117	A
12	576	5	269	6	148	7	4	127	126	A
13	566	5	268	6	151	7	4	124	129	A
14	556	6	268	6	159	7	5	134	125	A
15	546	6	258	6	154	7	6	133	118	A
16	536	6	265	6	156	7	5	134	121	A
17	526	7	250	6	148	7	6	142	102	A
18	516	6	254	7	151	7	6	129	119	A
19	506	6	249	7	148	7	6	113	130	A
20	496	6	247	8	149	8	6	106	137	A
21	486	7	255	8	152	8	6	120	128	A
22	476	7	256	8	145	9	6	128	117	A
23	466	7	256	9	150	9	6	118	130	A
24	456	8	260	8	151	9	6	138	113	A
25	446	8	250	8	151	9	7	146	100	A
26	436	8	247	8	147	9	8	137	106	A
27	426	9	254	9	148	11	8	133	113	A
28	416	9	263	10	144	12	7	129	118	A
29	406	10	268	10	145	12	7	134	117	A
30	396	10	269	10	150	12	7	139	116	A
31	386	12	271	10	154	13	8	145	113	A
32	376	10	268	9	152	12	7	142	113	A
33	366	10	268	9	145	12	7	140	113	A
34	356	9	270	9	148	11	6	139	116	A
35	346	9	274	9	148	11	6	135	121	A
36	336	8	268	8	148	10	6	130	122	A
37	326	8	265	7	145	9	5	142	109	A
38	316	8	263	7	145	9	6	141	109	A
39	306	9	263	8	151	10	7	143	109	A
40	296	9	262	9	152	10	7	143	110	A
41	286	9	260	10	155	10	8	126	127	A
42	276	7	251	10	155	11	7	99	149	A
43	266	7	260	10	161	10	7	101	154	A
44	256	6	263	10	162	11	6	99	157	A
45	246	6	252	10	170	10	6	84	173	A
46	236	6	242	10	176	11	5	72	185	A
47	226	8	227	9	184	11	4	50	202	A
48	216	6	203	10	180	12	2	63	185	A
49	206	7	169	10	178	13	1	56	175	C
50	196	8	165	10	179	13	2	51	174	C
51	186	10	146	9	184	13	4	44	165	C
52	176	10	144	8	184	12	4	37	159	C
53	166	10	146	11	209	12	7	53	185	C
54	156	11	136	10	219	11	10	39	172	C
55	146	11	125	13	221	14	11	108	236	C
56	136	13	136	15	219	16	12	75	207	C
57	126	13	135	19	216	19	12	80	209	C
58	116	13	142	19	219	20	12	75	209	C
59	106	16	145	21	213	22	14	62	195	C
60	96	14	155	22	214	23	11	66	202	C
61	86	17	160	24	216	26	13	62	202	C
62	76	12	169	25	215	27	8	69	208	C
63	66	9	189	21	199	23	1	67	197	C

NWNG1406

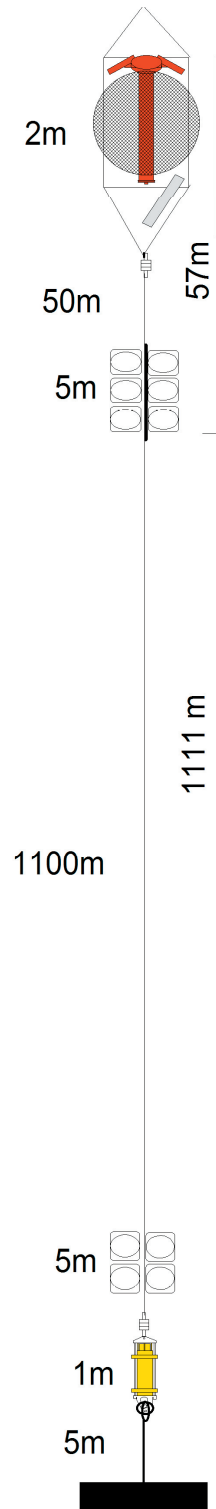
Latitude: 63°06.000'N
Longitude: 006°05.000'W
Echo sounding depth: 1842 m
Bottom depth corr.: 1802 m
Time of deployment: 6/6 -2014 0525 UTC
Time of recovery: 25/5 - 2015 1330 UTC

ADCP:

Instrument no.: RDI ADCP 1644
Instrument frequency: 75 kHz
Height above bottom: 1168 m
Depth: 634 m (corr.)
Time of first data: 6/6 – 2014 0620 UTC
Time of last data: 25/5 – 2015 1320 UTC
Sample interval: 20 min
No. of ensembles: 25438
Pings per ens.: 1
Binlength: 25 m
Depth of first bin: 598 m (corr.)
No. of bins: 22

Data:

All data ok.



NWNG1406 ADCP 1644

Error statistics for deployment: NWNG1406 updated 2015/08/06

 Temperature edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:

Minimum Intensity:50.0
 Minimum Mean Correlation:64.0
 Maximum Speed, number of std dev for each bin: 5.0
 Maximum Vertical Velocity:138.0
 Maximum Error Velocity (erv_tr+0.1*spd):100.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 6.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 22): 3.34
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 32): 0.20
 Vertical Speed Spikes, u and v deviated from 3 point median by number of std dev: 5.0

Total number of ensembles: 25438
 Interval between ensembles: 20 min
 Original number of bins: 32
 Number of acceptable velocity bins: 22

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 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	29	0	29	0	0	0	0	0	0	0	0	0
2	0	36	0	36	0	0	0	0	0	0	0	0	0
3	0	24	0	24	0	0	0	0	0	0	0	0	0
4	0	20	0	20	0	0	0	0	0	0	0	0	0
5	0	19	0	19	0	0	0	0	0	0	0	0	0
6	0	24	0	20	2	0	0	0	0	0	0	0	0
7	0	40	0	31	3	1	0	0	0	0	0	0	0
8	0	56	0	50	3	0	0	0	0	0	0	0	0
9	0	62	0	45	7	1	0	0	0	0	0	0	0
10	0	81	0	57	5	2	2	0	0	0	0	0	0
11	0	100	0	74	10	2	0	0	0	0	0	0	0
12	0	143	1	127	5	0	0	0	1	0	0	0	0
13	0	191	1	148	12	5	1	0	0	0	0	0	0
14	0	314	1	166	23	9	4	2	6	0	0	0	0
15	0	1033	4	261	43	13	11	8	18	15	3	3	0
16	0	2318	9	291	70	39	21	11	31	27	16	15	0
17	0	3661	14	372	81	42	22	17	40	27	19	37	3
18	0	5246	21	427	115	53	28	26	55	42	21	52	10
19	0	7008	28	491	158	74	41	21	44	50	40	62	19
20	0	9051	36	582	190	64	35	30	75	67	57	74	25
21	0	11515	45	685	202	96	47	42	78	73	66	98	35
22	0	14361	56	797	289	137	79	51	108	66	67	81	65

NWNG1406 ADCP 1644

Deployment: NWNG1406 updated 2015/08/06
 Instrument no.: 1644
 Instrument freq.: 75
 Latitude: 63 06.000 N
 Longitude: 06 05.000 W
 Bottom depth: 1802
 Instrument depth: 634
 Center depth of first bin: 598
 Bin length: 25
 Number of bins: 22
 Number of first ensemble: 209
 Time of first ensemble: 2014 06 06 06 20
 Number of last ensemble: 25646
 Time of last ensemble: 2015 05 25 13 20
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -6.0

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

Bin no.	Depth m	Height m	Speed mm/s	Vel mm/s	Dir deg	Good ppt
1	598	1204	90	22	133	999
2	573	1229	91	22	132	999
3	548	1254	93	23	131	999
4	523	1279	94	24	129	999
5	498	1304	97	25	128	999
6	473	1329	100	27	125	999
7	448	1354	106	30	122	998
8	423	1379	111	34	120	998
9	398	1404	117	39	120	998
10	373	1429	126	47	118	997
11	348	1454	137	55	117	996
12	323	1479	148	64	115	994
13	298	1504	160	73	115	992
14	273	1529	174	82	116	988
15	248	1554	189	89	117	959
16	223	1579	203	94	117	909
17	198	1604	217	99	117	856
18	173	1629	228	100	118	794
19	148	1654	241	101	119	725
20	123	1679	253	101	121	644
21	98	1704	260	99	121	547
22	73	1729	274	95	119	435

NWNG1406 ADCP 1644

Frequency of high speeds.

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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	
1 598	380	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 573	391	23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 548	408	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 523	416	29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 498	432	37	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 473	451	57	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 448	476	78	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 423	506	94	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 398	539	116	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 373	578	160	24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 348	629	200	42	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 323	664	243	59	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 298	695	289	93	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 273	725	341	129	33	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 248	739	379	161	52	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0
16 223	724	398	185	67	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0
17 198	691	413	210	87	26	6	1	0	0	0	0	0	0	0	0	0	0	0	0
18 173	653	400	218	98	35	12	3	0	0	0	0	0	0	0	0	0	0	0	0
19 148	605	385	218	107	46	18	6	1	0	0	0	0	0	0	0	0	0	0	0
20 123	546	355	210	109	54	24	10	3	1	0	0	0	0	0	0	0	0	0	0
21 98	464	303	185	103	54	27	11	4	1	0	0	0	0	0	0	0	0	0	0
22 73	374	247	154	94	54	31	15	8	3	1	0	0	0	0	0	0	0	0	0

NWNG1406 ADCP 1644

Harmonic constants for constituent M2 for deployment NWNG1406.

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	598	72	286	26	232	73	21	13	282	A
02	573	72	287	27	233	74	21	13	283	A
03	548	72	288	27	234	74	21	14	284	A
04	523	70	288	26	239	72	19	15	284	A
05	498	69	289	26	245	72	18	16	285	A
06	473	69	292	28	249	72	19	18	287	A
07	448	67	295	30	255	72	18	20	290	A
08	423	66	298	31	261	71	17	22	292	A
09	398	64	301	32	269	70	16	24	295	A
10	373	65	306	36	276	72	16	28	300	A
11	348	67	313	43	280	77	21	31	304	A
12	323	67	319	49	285	80	24	35	308	A
13	298	66	329	58	291	83	28	40	313	A
14	273	68	337	68	296	89	34	45	317	A
15	248	71	343	73	298	94	38	46	320	A
16	223	72	348	76	302	97	41	47	323	A
17	198	74	352	83	301	101	47	51	322	A
18	173	76	355	89	302	106	51	52	323	A
19	148	75	357	90	301	105	54	54	322	A
20	123	75	358	91	299	103	57	55	320	A
21	98	74	355	81	301	97	50	49	325	A
22	73	69	358	81	308	96	44	52	328	A

Harmonic constants for constituent S2 for deployment NWNG1406.

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	598	26	325	10	273	27	8	15	320	A
02	573	25	324	10	276	26	7	17	319	A
03	548	25	325	10	282	26	6	17	321	A
04	523	24	327	9	288	25	5	16	323	A
05	498	22	330	9	300	24	4	20	326	A
06	473	21	337	10	311	23	4	23	333	A
07	448	20	341	11	326	23	2	27	338	A
08	423	19	343	11	337	22	1	31	341	A
09	398	18	346	12	339	22	1	33	344	A
10	373	17	343	10	347	20	0	31	344	C
11	348	16	341	10	354	19	2	31	345	C
12	323	14	351	13	1	19	2	44	356	C
13	298	13	11	19	360	23	2	56	3	A
14	273	17	20	23	352	28	7	55	1	A
15	248	19	25	25	351	30	9	55	3	A
16	223	19	35	27	350	31	12	59	3	A
17	198	22	38	33	349	37	15	61	2	A
18	173	22	45	32	348	35	17	64	1	A
19	148	23	47	34	343	36	19	67	356	A
20	123	30	33	36	342	42	20	54	1	A
21	98	33	35	37	348	46	20	49	8	A
22	73	36	38	38	350	48	21	47	13	A

NWNG1406 ADCP 1644

Harmonic constants for constituent N2 for deployment NWNG1406.

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	598	13	249	2	153	13	2	179	69	A
02	573	13	253	2	208	13	1	5	253	A
03	548	13	256	3	220	13	2	10	255	A
04	523	13	260	4	217	14	3	12	257	A
05	498	15	269	5	219	15	4	14	266	A
06	473	16	277	8	227	17	6	19	270	A
07	448	17	284	10	236	18	7	24	275	A
08	423	15	293	10	249	17	6	30	281	A
09	398	13	292	8	259	15	4	29	284	A
10	373	12	292	8	263	14	3	33	283	A
11	348	14	301	12	265	17	6	39	287	A
12	323	17	312	16	265	21	9	42	291	A
13	298	19	315	17	263	23	11	39	294	A
14	273	21	315	18	259	25	13	39	292	A
15	248	25	325	23	262	29	18	41	297	A
16	223	30	325	27	263	35	21	39	299	A
17	198	34	323	31	258	39	24	38	297	A
18	173	36	324	34	260	42	26	41	295	A
19	148	37	328	35	264	44	27	41	299	A
20	123	35	333	40	267	45	28	55	291	A
21	98	35	337	38	273	44	27	51	300	A
22	73	23	355	42	277	43	22	81	282	A

Harmonic constants for constituent O1 for deployment NWNG1406.

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	598	5	57	1	263	5	0	170	238	A
02	573	5	53	1	266	5	0	174	233	A
03	548	4	56	0	292	4	0	178	236	A
04	523	5	56	0	203	5	0	177	236	C
05	498	6	60	0	292	6	0	178	240	A
06	473	6	57	1	345	6	1	2	57	A
07	448	6	53	1	308	6	1	177	234	A
08	423	6	52	2	279	7	1	167	235	A
09	398	7	70	2	319	7	2	174	251	A
10	373	7	82	1	7	7	1	2	81	A
11	348	5	86	1	245	5	0	171	266	C
12	323	4	65	3	215	5	1	150	237	C
13	298	7	52	2	217	8	1	163	230	C
14	273	9	56	1	241	9	0	170	236	A
15	248	6	58	2	188	6	2	166	235	C
16	223	5	87	7	140	8	4	62	126	C
17	198	3	86	7	129	7	2	67	122	C
18	173	4	46	3	140	4	3	168	216	C
19	148	5	36	3	350	5	2	25	27	A
20	123	9	3	8	355	12	1	39	360	A
21	98	16	10	15	1	22	2	42	6	A
22	73	26	9	23	350	34	6	41	1	A

NWNG1406 ADCP 1644

Harmonic constants for constituent K1 for deployment NWNG1406.

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	598	4	287	3	154	5	2	145	123	A
02	573	4	301	3	152	5	1	146	131	A
03	548	4	298	3	157	5	1	149	129	A
04	523	5	296	3	161	5	2	156	124	A
05	498	5	290	3	159	5	2	153	122	A
06	473	6	293	3	155	6	2	159	119	A
07	448	6	297	3	142	6	1	153	122	A
08	423	5	286	2	128	5	1	158	109	A
09	398	5	281	2	109	5	0	162	101	A
10	373	5	278	1	123	5	1	164	100	A
11	348	3	268	2	148	4	2	161	97	A
12	323	4	277	4	141	5	2	144	112	A
13	298	6	278	3	137	6	2	153	107	A
14	273	5	281	3	124	6	1	146	108	A
15	248	4	282	4	152	5	3	131	130	A
16	223	2	82	6	177	6	2	92	178	C
17	198	5	73	9	224	10	2	116	230	C
18	173	9	95	11	240	13	4	129	254	C
19	148	13	91	14	239	19	5	133	254	C
20	123	21	109	18	237	24	12	142	268	C
21	98	22	110	24	249	31	11	131	267	C
22	73	22	122	35	259	39	13	119	270	C

NWSC1406

Latitude: 60°34.000'N
Longitude: 004°46.000'W
Echo sounding depth: 1082 m
Bottom depth corr.: 1067 m
Time of deployment: 8/6 -2014 1546 UTC
Time of recovery: 23/5 - 2015 1210 UTC

ADCP:

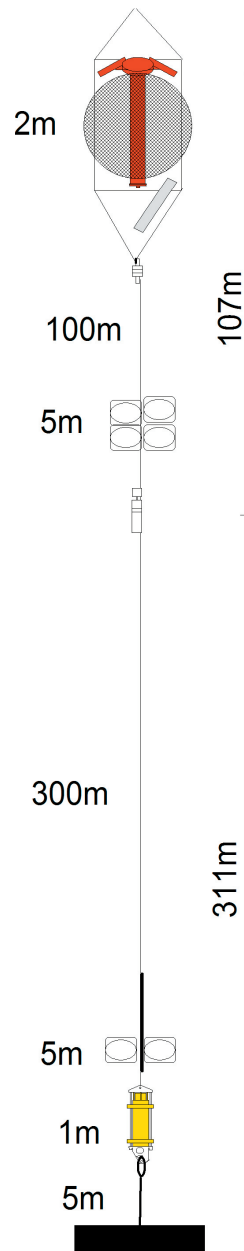
Instrument no.: RDI ADCP 8552
Instrument frequency: 75 kHz
Height above bottom: 418 m
Depth: 649 m (corr.)
Time of first data: 8/6 - 2014 1620 UTC
Time of last data: 23/5 - 2015 1139 UTC
Sample interval: 20 min
No. of ensembles: 25115
Pings per ens.: 10
Binlength: 10 m
Depth of first bin: 630 m (corr.)
No. of bins: 58

Aanderaa:

Instrument no.: RCM9 721
Height above bottom: 311 m
Depth: 756 m (corr.)
Time of first data: 8/6 - 2014 1630 UTC
Time of last data: 23/5 - 2015 1130 UTC
Sample interval: 60 min
No. of records: 8357

Data:

Data ok.



NWSC1406 ADCP 8552

Error statistics for deployment: NWSC1406 updated 2015/10/22

 Temperature edited
 Depth edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:
 Minimum Intensity:68.0
 Minimum Mean Correlation:60.0
 Maximum Speed, number of std dev for each bin: 5.0
 Maximum Vertical Velocity:150.0
 Maximum Error Velocity (erv tr+0.1*spd):100.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 5.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 58): 2.86
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 70): 2.00
 Vertical Speed Spikes, u and v deviated from 3 point median by number of std dev: 4.0

Total number of ensembles: 25115
 Interval between ensembles: 20 min
 Original number of bins: 70
 Number of acceptable velocity bins: 58

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

Number of depth ens. flagged : 0
 Number of temperature ens. flagged: 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	40	0	38	1	0	0	0	0	0	0	0	0	0
2	0	42	0	38	2	0	0	0	0	0	0	0	0	0
3	0	42	0	42	0	0	0	0	0	0	0	0	0	0
4	0	49	0	47	1	0	0	0	0	0	0	0	0	0
5	0	46	0	44	1	0	0	0	0	0	0	0	0	0
6	0	42	0	40	1	0	0	0	0	0	0	0	0	0
7	0	33	0	33	0	0	0	0	0	0	0	0	0	0
8	0	54	0	50	2	0	0	0	0	0	0	0	0	0
9	0	40	0	40	0	0	0	0	0	0	0	0	0	0
10	0	45	0	40	1	1	0	0	0	0	0	0	0	0
11	0	51	0	39	4	0	1	0	0	0	0	0	0	0
12	0	52	0	45	2	1	0	0	0	0	0	0	0	0
13	0	68	0	57	4	1	0	0	0	0	0	0	0	0
14	0	61	0	56	1	1	0	0	0	0	0	0	0	0
15	0	72	0	64	2	0	1	0	0	0	0	0	0	0
16	0	54	0	50	2	0	0	0	0	0	0	0	0	0
17	0	53	0	51	1	0	0	0	0	0	0	0	0	0
18	0	68	0	64	2	0	0	0	0	0	0	0	0	0
19	0	80	0	63	7	1	0	0	0	0	0	0	0	0
20	0	72	0	68	2	0	0	0	0	0	0	0	0	0
21	0	88	0	77	4	1	0	0	0	0	0	0	0	0
22	0	95	0	81	7	0	0	0	0	0	0	0	0	0
23	0	98	0	78	10	0	0	0	0	0	0	0	0	0
24	0	83	0	73	5	0	0	0	0	0	0	0	0	0
25	0	121	0	116	1	1	0	0	0	0	0	0	0	0
26	0	109	0	87	8	0	0	0	1	0	0	0	0	0
27	0	104	0	94	5	0	0	0	0	0	0	0	0	0
28	0	100	0	86	7	0	0	0	0	0	0	0	0	0
29	0	117	0	95	8	2	0	0	0	0	0	0	0	0
30	0	121	0	105	6	0	1	0	0	0	0	0	0	0
31	0	125	0	101	9	2	0	0	0	0	0	0	0	0
32	0	117	0	102	6	1	0	0	0	0	0	0	0	0
33	0	147	1	128	8	1	0	0	0	0	0	0	0	0
34	0	128	1	109	8	1	0	0	0	0	0	0	0	0
35	0	161	1	143	9	0	0	0	0	0	0	0	0	0
36	0	207	1	160	19	3	0	0	0	0	0	0	0	0
37	0	184	1	158	11	0	1	0	0	0	0	0	0	0
38	0	267	1	193	28	3	0	0	1	0	0	0	0	0
39	0	294	1	192	25	4	5	4	0	0	0	0	0	0
40	0	463	2	188	44	14	10	4	8	2	0	0	0	0
41	0	759	3	193	33	21	16	5	18	13	1	0	0	0
42	0	1156	5	165	47	30	11	10	33	28	3	0	0	0
43	0	1604	6	205	44	21	15	9	35	39	10	1	0	0
44	0	2031	8	193	50	28	22	10	34	46	19	3	0	0
45	0	2505	10	177	58	24	22	18	43	42	35	3	0	0
46	0	2900	12	176	49	24	16	15	41	31	43	15	0	0
47	0	3263	13	212	58	22	15	8	42	32	38	28	0	0
48	0	3575	14	221	64	18	16	11	38	30	39	35	0	0
49	0	3912	16	257	55	30	18	12	36	41	36	40	0	0
50	0	4360	17	282	51	35	22	18	34	35	35	54	0	0
51	0	4877	19	285	78	34	24	21	34	37	23	66	3	0
52	0	5471	22	302	56	35	20	21	34	45	29	67	7	0
53	0	6112	24	314	79	33	18	17	39	43	32	66	10	0
54	0	6653	26	336	94	37	18	13	49	46	33	67	10	0
55	0	7227	29	398	93	42	24	19	45	51	34	70	8	0
56	0	7899	31	394	104	46	26	16	47	35	23	77	21	0
57	0	8753	35	476	102	53	30	24	47	29	19	79	31	0
58	0	10178	41	989	199	77	46	20	64	42	25	72	30	0

NWSC1406 ADCP 8552

Deployment: NWSC1406 updated 2015/10/22
 Instrument no.: 8552
 Instrument freq.: 75
 Latitude: 60 34.000 N
 Longitude: 04 46.000 W
 Bottom depth: 1067
 Instrument depth: 649
 Center depth of first bin: 630
 Bin length: 10
 Number of bins: 58
 Number of first ensemble: 662
 Time of first ensemble: 2014 06 08 16 20
 Number of last ensemble: 25776
 Time of last ensemble: 2015 05 23 11 39
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -4.0

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	630	437	172	57	217	998
2	620	447	172	57	216	998
3	610	457	173	57	216	998
4	600	467	174	57	215	998
5	590	477	175	56	215	998
6	580	487	176	55	214	998
7	570	497	177	55	213	999
8	560	507	178	54	213	998
9	550	517	178	53	212	998
10	540	527	180	52	211	998
11	530	537	181	51	211	998
12	520	547	183	49	209	998
13	510	557	185	48	208	997
14	500	567	188	47	206	998
15	490	577	190	46	204	997
16	480	587	192	45	201	998
17	470	597	194	45	197	998
18	460	607	195	44	195	997
19	450	617	196	44	193	997
20	440	627	198	44	191	997
21	430	637	200	43	189	996
22	420	647	201	41	187	996
23	410	657	203	41	184	996
24	400	667	205	41	180	997
25	390	677	207	40	176	995
26	380	687	209	39	171	996
27	370	697	211	39	167	996
28	360	707	213	38	164	996
29	350	717	217	37	159	995
30	340	727	221	37	154	995
31	330	737	223	36	148	995
32	320	747	226	36	144	995
33	310	757	228	36	140	994
34	300	767	230	36	135	995
35	290	777	232	37	133	994
36	280	787	234	38	132	992
37	270	797	236	39	129	993
38	260	807	238	39	127	989
39	250	817	240	40	125	988
40	240	827	242	41	126	982
41	230	837	244	41	126	970
42	220	847	245	43	125	954
43	210	857	246	44	125	936
44	200	867	248	44	127	919
45	190	877	249	44	127	900
46	180	887	249	44	127	885
47	170	897	249	43	128	870
48	160	907	249	42	131	858
49	150	917	249	41	133	844
50	140	927	250	40	135	826
51	130	937	249	38	135	806
52	120	947	249	35	138	782
53	110	957	249	33	136	757
54	100	967	249	32	138	735
55	90	977	251	33	137	712
56	80	987	253	35	137	685
57	70	997	255	37	133	651
58	60	1007	239	35	129	595

NWSC1406 ADCP 8552

Frequency of high speeds.

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

Bin Depth no. m	Speed (cm/s)																	
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1 630	733	340	109	26	6	1	0	0	0	0	0	0	0	0	0	0	0	0
2 620	736	347	113	26	6	1	0	0	0	0	0	0	0	0	0	0	0	0
3 610	737	350	113	27	6	1	0	0	0	0	0	0	0	0	0	0	0	0
4 600	741	352	119	27	5	1	0	0	0	0	0	0	0	0	0	0	0	0
5 590	745	356	118	27	6	1	0	0	0	0	0	0	0	0	0	0	0	0
6 580	750	358	120	28	5	1	0	0	0	0	0	0	0	0	0	0	0	0
7 570	756	365	120	27	5	0	0	0	0	0	0	0	0	0	0	0	0	0
8 560	755	367	123	29	5	1	0	0	0	0	0	0	0	0	0	0	0	0
9 550	754	370	127	29	5	1	0	0	0	0	0	0	0	0	0	0	0	0
10 540	760	375	132	31	5	1	0	0	0	0	0	0	0	0	0	0	0	0
11 530	765	380	135	32	5	0	0	0	0	0	0	0	0	0	0	0	0	0
12 520	766	386	138	32	6	0	0	0	0	0	0	0	0	0	0	0	0	0
13 510	771	396	143	35	7	1	0	0	0	0	0	0	0	0	0	0	0	0
14 500	776	408	150	39	7	1	0	0	0	0	0	0	0	0	0	0	0	0
15 490	782	415	158	40	9	1	0	0	0	0	0	0	0	0	0	0	0	0
16 480	787	421	161	43	9	1	0	0	0	0	0	0	0	0	0	0	0	0
17 470	788	426	168	44	11	1	0	0	0	0	0	0	0	0	0	0	0	0
18 460	791	428	168	47	11	2	0	0	0	0	0	0	0	0	0	0	0	0
19 450	790	435	173	51	12	2	0	0	0	0	0	0	0	0	0	0	0	0
20 440	798	444	175	53	12	2	0	0	0	0	0	0	0	0	0	0	0	0
21 430	801	449	180	56	13	3	0	0	0	0	0	0	0	0	0	0	0	0
22 420	800	453	184	58	15	3	0	0	0	0	0	0	0	0	0	0	0	0
23 410	803	456	190	61	15	3	0	0	0	0	0	0	0	0	0	0	0	0
24 400	810	460	193	65	17	3	0	0	0	0	0	0	0	0	0	0	0	0
25 390	815	464	199	68	19	4	0	0	0	0	0	0	0	0	0	0	0	0
26 380	820	468	199	70	21	4	1	0	0	0	0	0	0	0	0	0	0	0
27 370	824	475	204	73	24	5	0	0	0	0	0	0	0	0	0	0	0	0
28 360	828	486	211	76	25	6	1	0	0	0	0	0	0	0	0	0	0	0
29 350	834	500	224	82	26	6	1	0	0	0	0	0	0	0	0	0	0	0
30 340	835	509	232	87	29	8	1	0	0	0	0	0	0	0	0	0	0	0
31 330	838	519	239	91	31	9	2	0	0	0	0	0	0	0	0	0	0	0
32 320	843	528	245	96	32	9	2	0	0	0	0	0	0	0	0	0	0	0
33 310	847	529	251	97	34	10	3	0	0	0	0	0	0	0	0	0	0	0
34 300	854	537	257	102	35	10	3	0	0	0	0	0	0	0	0	0	0	0
35 290	852	546	264	105	37	11	3	0	0	0	0	0	0	0	0	0	0	0
36 280	856	547	267	108	39	11	3	1	0	0	0	0	0	0	0	0	0	0
37 270	856	553	275	112	40	13	4	1	0	0	0	0	0	0	0	0	0	0
38 260	854	559	278	114	41	13	4	0	0	0	0	0	0	0	0	0	0	0
39 250	859	564	281	117	43	13	4	1	0	0	0	0	0	0	0	0	0	0
40 240	853	563	284	118	45	14	4	1	0	0	0	0	0	0	0	0	0	0
41 230	848	562	284	119	48	16	4	1	0	0	0	0	0	0	0	0	0	0
42 220	832	552	284	120	49	16	5	1	0	0	0	0	0	0	0	0	0	0
43 210	816	548	284	120	50	16	5	1	0	0	0	0	0	0	0	0	0	0
44 200	803	541	283	121	49	18	5	1	0	0	0	0	0	0	0	0	0	0
45 190	786	529	280	123	49	18	5	1	0	0	0	0	0	0	0	0	0	0
46 180	775	521	276	122	49	18	4	1	0	0	0	0	0	0	0	0	0	0
47 170	761	510	271	122	50	18	5	1	0	0	0	0	0	0	0	0	0	0
48 160	749	505	267	119	48	17	5	1	0	0	0	0	0	0	0	0	0	0
49 150	739	499	264	117	47	17	5	1	0	0	0	0	0	0	0	0	0	0
50 140	723	485	259	117	47	17	6	1	0	0	0	0	0	0	0	0	0	0
51 130	703	473	252	115	44	16	5	1	0	0	0	0	0	0	0	0	0	0
52 120	683	459	241	110	43	16	5	1	0	0	0	0	0	0	0	0	0	0
53 110	659	446	233	106	43	15	5	1	0	0	0	0	0	0	0	0	0	0
54 100	639	430	229	104	45	16	5	1	0	0	0	0	0	0	0	0	0	0
55 90	622	417	224	103	43	16	5	1	0	0	0	0	0	0	0	0	0	0
56 80	599	406	220	103	42	16	6	1	0	0	0	0	0	0	0	0	0	0
57 70	570	389	214	98	41	17	6	2	0	0	0	0	0	0	0	0	0	0
58 60	513	331	166	70	27	10	5	2	0	0	0	0	0	0	0	0	0	0

NWSC1406 ADCP 8552

Harmonic constants for constituent M2 for deployment NWSC1406.

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	630	161	248	81	244	180	6	27	247	A
02	620	161	248	82	244	180	5	27	247	A
03	610	160	248	84	245	181	4	28	248	A
04	600	160	249	85	245	181	5	28	248	A
05	590	161	249	87	245	183	6	28	248	A
06	580	160	250	89	246	183	5	29	249	A
07	570	159	251	91	247	183	6	30	250	A
08	560	158	252	93	247	183	6	31	250	A
09	550	157	252	95	248	184	6	31	251	A
10	540	156	252	96	249	183	5	32	251	A
11	530	155	253	98	249	184	6	32	252	A
12	520	155	254	100	250	184	6	33	252	A
13	510	156	254	102	249	186	8	33	253	A
14	500	155	255	104	250	187	9	34	253	A
15	490	155	255	105	250	187	8	34	254	A
16	480	153	256	106	252	186	6	35	254	A
17	470	150	255	106	253	183	4	35	254	A
18	460	147	255	106	253	181	3	36	255	A
19	450	145	255	106	255	180	0	36	255	C
20	440	141	256	107	257	177	2	37	256	C
21	430	137	257	109	259	175	3	38	258	C
22	420	133	258	112	261	174	4	40	259	C
23	410	129	260	114	263	172	4	41	261	C
24	400	126	261	118	264	172	5	43	263	C
25	390	122	262	121	266	171	5	45	264	C
26	380	119	264	123	267	171	5	46	266	C
27	370	117	265	126	268	172	4	47	267	C
28	360	116	267	129	269	173	2	48	268	C
29	350	115	269	133	269	176	1	49	269	C
30	340	114	270	136	270	178	1	50	270	A
31	330	112	271	138	270	178	1	51	271	A
32	320	112	272	141	271	179	2	52	271	A
33	310	109	273	142	271	179	4	53	272	A
34	300	109	273	144	271	181	3	53	272	A
35	290	109	274	146	271	182	3	53	272	A
36	280	108	274	146	272	182	4	54	272	A
37	270	108	274	147	272	183	4	54	273	A
38	260	109	275	149	272	184	5	54	273	A
39	250	108	275	149	272	184	6	54	273	A
40	240	108	276	151	272	186	6	54	273	A
41	230	110	277	152	272	188	8	54	273	A
42	220	109	277	153	272	188	8	55	274	A
43	210	112	278	153	272	189	10	54	274	A
44	200	111	279	156	272	191	11	55	274	A
45	190	111	279	157	272	192	12	55	274	A
46	180	110	280	158	272	192	13	55	274	A
47	170	110	280	159	272	192	13	55	275	A
48	160	110	281	157	272	191	14	55	275	A
49	150	110	280	156	273	190	11	55	275	A
50	140	108	280	156	273	189	11	55	275	A
51	130	105	280	155	274	187	10	56	276	A
52	120	104	279	153	274	185	7	56	276	A
53	110	101	278	153	276	183	3	57	276	A
54	100	101	249	153	247	184	2	57	248	A
55	90	101	278	154	277	184	2	57	277	A
56	80	104	278	153	276	185	3	56	277	A
57	70	100	278	153	276	183	3	57	277	A
58	60	88	275	140	275	166	1	58	275	C

NWSC1406 ADCP 8552

Harmonic constants for constituent S2 for deployment NWSC1406.

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	630	51	298	45	294	68	3	42	296	A
02	620	51	299	45	294	69	3	41	297	A
03	610	51	298	45	294	68	3	41	297	A
04	600	51	298	45	295	68	1	41	297	A
05	590	51	297	44	294	67	1	41	296	A
06	580	50	296	44	295	67	1	41	296	A
07	570	50	296	44	294	67	1	41	295	A
08	560	51	295	42	294	66	0	40	295	A
09	550	51	293	41	294	66	0	39	294	C
10	540	52	293	41	295	66	1	38	293	C
11	530	51	292	41	297	66	3	38	294	C
12	520	51	292	40	297	65	3	38	294	C
13	510	51	291	40	298	65	4	38	294	C
14	500	50	291	40	297	64	3	39	293	C
15	490	51	290	40	296	64	3	38	293	C
16	480	51	290	39	295	64	3	38	292	C
17	470	52	290	40	294	65	2	37	292	C
18	460	52	290	39	292	65	1	36	291	C
19	450	54	290	39	293	66	2	36	291	C
20	440	53	289	37	291	65	1	35	289	C
21	430	52	284	35	292	63	4	33	287	C
22	420	52	281	32	293	61	6	31	285	C
23	410	51	279	31	299	59	9	30	284	C
24	400	50	278	30	302	57	10	30	284	C
25	390	48	279	30	306	56	12	31	286	C
26	380	46	279	31	310	54	13	32	288	C
27	370	44	280	32	312	53	14	35	290	C
28	360	43	279	32	311	51	14	35	290	C
29	350	43	278	32	309	51	14	35	288	C
30	340	44	276	31	307	52	13	33	286	C
31	330	44	275	30	309	52	14	33	285	C
32	320	45	276	32	307	53	14	34	286	C
33	310	44	277	32	308	52	14	35	288	C
34	300	43	279	34	310	53	14	38	291	C
35	290	42	282	34	312	52	14	38	293	C
36	280	42	283	35	314	53	15	39	295	C
37	270	42	284	36	314	54	14	40	297	C
38	260	42	285	37	314	54	14	41	298	C
39	250	42	286	37	314	55	14	41	298	C
40	240	43	284	37	315	55	15	41	297	C
41	230	43	285	36	311	55	12	40	296	C
42	220	44	288	36	308	56	10	39	296	C
43	210	46	290	36	306	58	8	38	296	C
44	200	47	290	36	306	59	8	37	296	C
45	190	47	290	36	304	59	7	37	295	C
46	180	47	290	36	305	59	7	37	296	C
47	170	47	288	36	305	59	9	37	294	C
48	160	49	289	37	304	61	7	36	294	C
49	150	50	289	37	305	61	8	36	295	C
50	140	49	291	38	303	61	6	37	295	C
51	130	50	289	37	301	62	6	37	293	C
52	120	49	290	36	301	61	6	36	294	C
53	110	50	290	36	300	61	5	36	293	C
54	100	50	260	36	270	62	5	35	263	C
55	90	49	290	36	301	61	5	36	294	C
56	80	50	287	38	303	62	8	37	293	C
57	70	46	288	41	306	61	9	41	296	C
58	60	39	292	41	304	56	6	47	298	C

NWSC1406 ADCP 8552

Harmonic constants for constituent N2 for deployment NWSC1406.

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	630	30	214	11	239	32	4	18	216	C
02	620	30	214	11	244	32	5	18	217	C
03	610	29	214	12	249	30	6	20	219	C
04	600	28	213	12	250	30	7	20	218	C
05	590	28	215	13	250	30	7	23	221	C
06	580	27	216	13	251	30	7	23	221	C
07	570	26	219	14	250	29	7	26	225	C
08	560	26	220	16	247	30	6	30	227	C
09	550	26	224	17	244	31	5	32	229	C
10	540	26	228	18	242	31	4	34	232	C
11	530	26	230	19	237	32	2	35	232	C
12	520	28	230	19	233	34	1	34	231	C
13	510	30	234	21	229	37	1	34	232	A
14	500	31	236	22	226	38	3	35	233	A
15	490	32	239	25	224	40	5	37	233	A
16	480	32	242	26	225	41	6	39	235	A
17	470	32	246	27	226	41	7	40	238	A
18	460	32	247	27	227	42	7	40	239	A
19	450	32	246	27	226	41	7	39	238	A
20	440	32	245	26	227	41	6	40	238	A
21	430	31	245	27	229	41	6	41	238	A
22	420	31	249	30	233	43	6	44	241	A
23	410	32	253	31	234	44	8	45	244	A
24	400	32	253	33	234	45	7	46	244	A
25	390	32	254	33	233	45	8	46	243	A
26	380	31	254	32	233	44	8	46	243	A
27	370	30	256	33	235	43	8	48	245	A
28	360	30	257	33	238	44	7	48	246	A
29	350	31	259	34	238	45	8	48	247	A
30	340	30	258	34	237	45	8	49	246	A
31	330	30	260	34	238	44	9	49	247	A
32	320	29	260	34	238	44	8	50	248	A
33	310	29	262	34	238	44	9	50	248	A
34	300	30	262	35	239	46	9	50	249	A
35	290	30	265	36	239	46	10	51	249	A
36	280	30	266	37	239	47	11	51	249	A
37	270	31	266	37	240	47	11	51	250	A
38	260	31	267	38	239	48	12	52	250	A
39	250	30	269	39	239	48	12	53	250	A
40	240	30	269	38	239	47	12	53	250	A
41	230	31	271	39	239	48	13	53	251	A
42	220	31	273	40	238	49	15	53	251	A
43	210	33	271	40	238	50	15	51	251	A
44	200	34	271	39	237	49	15	49	251	A
45	190	33	271	39	234	49	16	52	248	A
46	180	35	269	41	234	51	16	50	249	A
47	170	37	268	41	233	53	16	48	249	A
48	160	36	266	40	232	51	16	49	247	A
49	150	34	262	39	232	50	13	49	245	A
50	140	33	261	39	230	49	13	50	243	A
51	130	36	256	39	229	52	12	47	241	A
52	120	37	257	38	226	51	14	46	241	A
53	110	36	255	37	225	50	13	46	239	A
54	100	35	224	37	195	49	13	47	208	A
55	90	32	250	35	225	47	10	48	236	A
56	80	34	246	33	223	47	10	45	234	A
57	70	35	242	32	227	47	6	43	235	A
58	60	30	245	31	238	43	3	46	241	A

NWSC1406 ADCP 8552

Harmonic constants for constituent O1 for deployment NWSC1406.

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	630	10	3	8	31	12	3	38	14	C
02	620	10	6	8	39	12	4	39	19	C
03	610	10	12	8	35	13	3	38	21	C
04	600	11	13	8	38	13	3	37	23	C
05	590	11	16	8	38	13	2	36	24	C
06	580	12	12	7	44	13	3	30	20	C
07	570	12	12	8	46	13	4	33	22	C
08	560	11	11	8	47	13	4	31	21	C
09	550	11	13	8	39	13	3	33	21	C
10	540	10	13	8	37	13	3	37	22	C
11	530	9	17	7	31	11	1	37	23	C
12	520	10	13	7	33	12	2	37	20	C
13	510	11	17	8	41	13	3	37	26	C
14	500	10	14	8	49	12	4	39	28	C
15	490	10	13	7	46	12	3	32	23	C
16	480	11	19	6	40	13	2	30	25	C
17	470	10	21	7	38	12	2	36	27	C
18	460	10	19	8	35	13	2	38	25	C
19	450	10	24	8	44	13	2	37	31	C
20	440	11	23	9	40	14	2	41	30	C
21	430	10	22	9	38	13	2	41	29	C
22	420	9	13	7	37	11	2	39	23	C
23	410	9	11	7	43	11	3	35	22	C
24	400	9	16	6	41	11	2	35	24	C
25	390	9	16	7	51	10	3	37	28	C
26	380	7	18	8	48	10	3	46	34	C
27	370	8	16	10	55	12	4	52	40	C
28	360	8	13	10	55	12	5	54	40	C
29	350	7	12	9	65	11	5	55	46	C
30	340	9	15	9	63	12	5	44	38	C
31	330	9	10	9	60	12	6	45	35	C
32	320	9	6	10	54	12	5	49	34	C
33	310	9	6	9	47	12	4	47	28	C
34	300	8	7	8	47	11	4	46	28	C
35	290	9	9	7	49	10	4	37	23	C
36	280	8	8	6	59	9	4	34	25	C
37	270	8	7	6	52	10	4	34	21	C
38	260	8	8	6	49	9	3	36	23	C
39	250	8	11	7	57	9	4	39	30	C
40	240	8	12	7	45	11	3	42	26	C
41	230	7	15	10	59	12	4	59	46	C
42	220	5	3	10	50	11	4	68	42	C
43	210	7	3	11	54	12	5	63	42	C
44	200	6	7	11	44	13	4	63	36	C
45	190	7	356	11	46	12	5	64	35	C
46	180	8	8	10	46	12	4	53	32	C
47	170	9	0	9	48	12	5	45	24	C
48	160	8	12	8	31	11	2	45	21	C
49	150	8	5	6	29	10	2	35	13	C
50	140	10	2	6	21	12	2	29	7	C
51	130	13	15	6	8	14	1	25	14	A
52	120	15	6	8	12	17	1	26	7	C
53	110	16	11	8	357	18	2	27	8	A
54	100	18	356	9	344	20	2	27	354	A
55	90	15	9	8	358	17	1	27	7	A
56	80	14	5	8	11	16	1	28	6	C
57	70	14	354	5	32	15	3	16	357	C
58	60	16	345	8	33	17	6	22	353	C

NWSC1406 ADCP 8552

Harmonic constants for constituent K1 for deployment NWSC1406.

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	630	4	239	2	198	5	1	27	229	A
02	620	5	238	3	211	6	1	29	232	A
03	610	5	253	3	208	5	2	25	244	A
04	600	6	241	2	219	6	1	21	238	A
05	590	6	244	2	227	7	1	19	242	A
06	580	6	222	2	202	6	1	22	220	A
07	570	5	222	3	212	6	0	25	220	A
08	560	6	220	2	203	6	0	16	218	A
09	550	6	222	1	221	6	0	12	222	A
10	540	6	223	2	229	6	0	23	224	C
11	530	6	216	2	221	6	0	20	216	C
12	520	7	215	2	217	8	0	18	215	C
13	510	6	215	2	231	6	1	18	217	C
14	500	7	229	2	189	7	1	11	228	A
15	490	6	219	1	214	7	0	8	219	A
16	480	7	217	0	173	7	0	2	217	A
17	470	7	219	2	169	7	1	8	217	A
18	460	7	218	3	141	7	3	6	216	A
19	450	7	213	2	141	7	2	6	211	A
20	440	6	230	2	168	6	2	10	226	A
21	430	7	225	3	167	7	2	14	221	A
22	420	8	227	2	170	8	2	10	224	A
23	410	7	222	3	155	7	3	10	218	A
24	400	7	219	3	146	7	3	8	216	A
25	390	7	212	3	143	7	3	14	206	A
26	380	5	205	3	140	6	3	16	198	A
27	370	7	205	5	159	8	3	30	193	A
28	360	6	195	6	146	8	3	40	174	A
29	350	6	188	7	130	8	5	52	153	A
30	340	6	184	8	119	9	5	60	138	A
31	330	6	177	7	118	8	4	51	142	A
32	320	6	179	6	123	8	4	45	151	A
33	310	4	184	4	120	5	3	50	148	A
34	300	4	209	3	110	4	3	147	58	A
35	290	4	216	3	99	4	2	151	54	A
36	280	3	217	3	117	3	2	117	95	A
37	270	3	246	3	121	4	2	133	95	A
38	260	3	236	2	107	4	2	149	71	A
39	250	3	236	2	103	4	1	158	64	A
40	240	2	210	3	92	3	2	122	72	A
41	230	2	213	5	75	5	1	108	70	A
42	220	4	225	6	59	8	1	125	54	A
43	210	6	226	7	70	9	2	132	59	A
44	200	8	232	8	58	11	1	135	55	A
45	190	8	219	9	55	12	2	130	49	A
46	180	9	227	7	52	12	0	141	49	A
47	170	10	228	7	52	13	0	145	49	A
48	160	11	233	7	41	13	1	146	49	C
49	150	11	220	7	36	13	0	149	39	C
50	140	12	225	8	43	14	0	147	44	C
51	130	9	221	9	43	13	0	135	42	A
52	120	13	224	10	44	16	0	142	44	A
53	110	12	223	9	50	15	1	142	46	A
54	100	15	217	11	50	18	2	145	41	A
55	90	18	229	10	82	20	5	154	56	A
56	80	16	219	9	100	17	7	161	48	A
57	70	15	217	6	100	16	6	168	41	A
58	60	16	204	3	73	16	2	174	24	A

NWSC1406 Aanderaa 721

Deployment: NWSC1406 analyzed from beginning to end
 Instrument no.: 721
 Instrument type: Aanderaa
 Latitude: 60 34.00 N
 Longitude: 04 46.000 W
 Bottom depth: 1067
 Instrument depth: 756
 Number of records: 8372
 Time of first record: 2014 06 08 16 30
 Time of last record : 2015 05 23 11 30
 Time between records (min.): 60.000

Parameters	Records OK	Records flagged
Column 1 : Recno		
Column 2- 4: Date		
Column 5- 6: Time		
Column 7 : Temp	8372	0
Column 8 : Speed	8372	0
Column 9 : Direct	8372	0

Comments

Residual current: 59 mm/sec towards: 214 degrees

TIDAL ANALYSIS

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

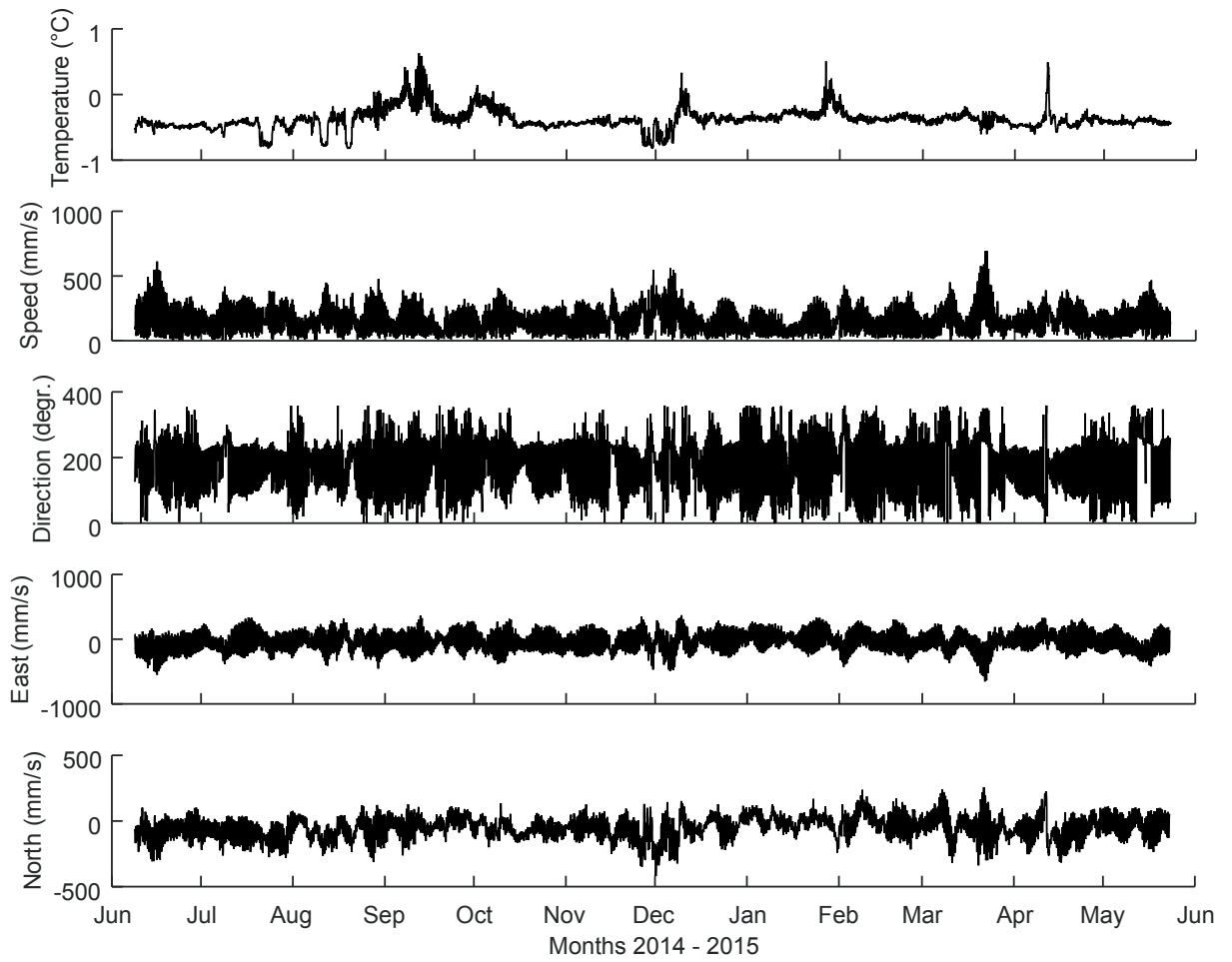
Const	Freq c/hr	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
MM	.00151215	18	211	13	226	22	3	37	216	C
MSF	.00282193	21	133	6	75	21	5	10	130	A
Q1	.03721850	4	357	5	21	6	1	52	12	C
O1	.03873065	11	17	7	46	12	3	32	25	C
NO1	.04026859	1	317	1	147	1	0	146	140	A
P1	.04155259	2	233	1	172	2	1	14	228	A
K1	.04178075	5	235	1	192	5	1	7	234	A
N2	.07899925	32	216	5	241	32	2	8	217	C
M2	.08051140	165	251	59	240	175	10	19	249	A
L2	.08202355	4	290	0	218	4	0	2	290	A
S2	.08333334	54	301	36	295	65	3	34	299	A
K2	.08356149	15	305	10	303	18	0	35	304	A
MK3	.12229210	1	219	0	240	1	0	30	225	C
M4	.16102280	2	163	3	323	4	1	116	327	C
MS4	.16384470	1	223	2	13	2	0	112	18	C

DIRECTIONAL CURRENT DISTRIBUTION (for all nonflagged observations in series)

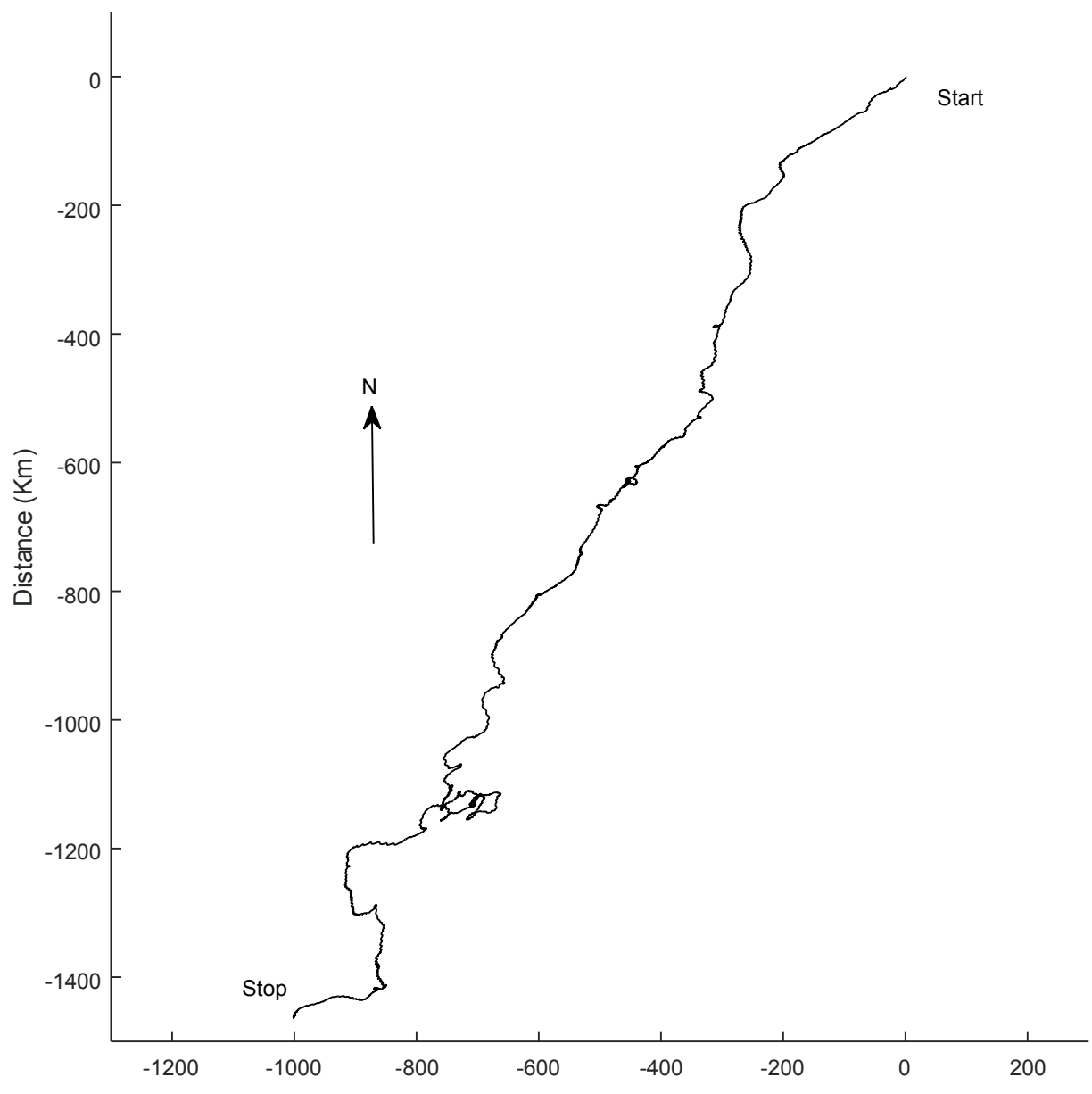
Relative number of observations in parts per thousand (ppt) grouped into speed and direction intervals (of 30 degree width centred around the directions shown)

Speed intervals (mm/s)	Direction intervals												All dir.	
	15	45	75	105	135	165	195	225	255	285	315	345	Tot	Acc
0 - 50	6	6	11	11	10	10	8	11	8	7	5	6	98	98
50 - 100	9	14	28	24	18	18	19	25	23	15	9	6	208	306
100 - 150	3	13	35	28	14	12	16	35	35	13	4	3	212	519
150 - 200	1	6	40	19	8	5	12	44	42	8	1	1	186	705
200 - 300	1	6	36	17	7	3	7	74	60	4	0.24	1	216	921
300 - 400	0	2	4	2	1	0.48	2	30	23	1	0	0	66	987
400 - 500	0	0	0.12	0	0	0	0.12	4	5	0.12	0	0	9	996
500 - 600	0	0	0	0	0	0	0	2	2	0	0	0	4	999
600 - 700	0	0	0	0	0	0	0	0	1	0	0	0	1	1000
Total (ppt)	19	47	154	101	59	48	65	225	199	47	19	17		
Rel.flux (ppt)	9	38	150	88	44	30	52	285	251	35	10	9		
Avg.spd (mm/s)	76	127	156	139	119	101	128	202	202	118	81	86		
Max.spd (mm/s)	273	390	402	387	367	355	428	595	695	428	229	264		

NWSC1406 Aanderaa 721



NWSC1406 Aanderaa 721

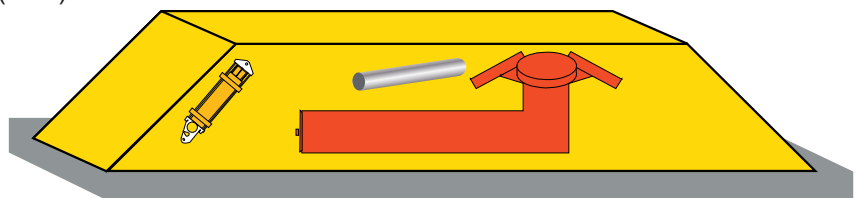


NWSH1406

Latitude: 60°11.934'N
Longitude: 004°14.380'W
Echo sounding depth: 198 m
Bottom depth corr.: 202 m
Time of deployment: 8/6 -2014 1229 UTC
Time of recovery: 23/5 – 2015 0314 UTC

ADCP:

Instrument no.: RDI ADCP 3368
Instrument frequency: 75 kHz
Height above bottom: 1 m
Depth: 201 m (corr.)
Time of first data: 8/6 – 2014 1240 UTC
Time of last data: 23/5 – 2015 0259 UTC
Sample interval: 20 min
No. of ensembles: 25100
Pings per ens.: 10
Binlength: 10 m
Depth of first bin: 182 m (corr.)
No. of bins: 16



MicroCat

Instrument no.: 5184
Height above bottom: 1 m
Time of first data: 8/6 - 2014 1240 UTC
Time of last data: 23/5 - 2015 0300 UTC
Sample interval: 10 min
No. of ensembles: 50199
Instrument depth: 201 m

Data:

The ADCP data are ok.

The salinity from the MicroCat was clearly erroneous after 10'th of december.

NWSH1406 ADCP 3368

Error statistics for deployment: NWSH1406 updated 2015/10/14

 Temperature edited
 Depth edited
 Surface distance not edited
 Heading, pitch and roll not edited
 Intensity not edited

Velocity edited using these data filters:

Minimum Intensity:70.0
 Minimum Mean Correlation:84.0
 Maximum Speed, number of std dev for each bin: 5.0
 Maximum Vertical Velocity:100.0
 Maximum Error Velocity (erv_tr+0.1*spd):120.0
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 1): 5.00
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 16): 2.96
 Speed Spikes, u and v deviated from 3 point median by number of std dev (bin 40):-12.00
 Vertical Speed Spikes, u and v deviated from 3 point median by number of std dev: 4.0
 Vertical Velocity Spikes, deviated from 3 point median by number of std dev: 4.0

Total number of ensembles: 25100
 Interval between ensembles: 20 min
 Original number of bins: 40
 Number of acceptable velocity bins: 16

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

Number of depth ens. flagged : 0
 Number of temperature ens. flagged: 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	214	1	170	14	4	1	0	0	0	0	0	0	
2	0	218	1	158	19	4	1	0	1	0	0	0	0	
3	0	204	1	168	15	2	0	0	0	0	0	0	0	
4	0	230	1	188	15	4	0	0	0	0	0	0	0	
5	0	215	1	147	25	3	1	1	0	0	0	0	0	
6	0	274	1	182	27	4	3	1	1	0	0	0	0	
7	0	342	1	205	31	11	3	3	0	1	0	0	0	
8	0	404	2	228	34	11	6	4	2	1	0	0	0	
9	0	495	2	239	49	19	3	4	4	3	0	0	0	
10	0	611	2	273	53	23	6	4	8	2	1	0	0	
11	0	750	3	351	73	22	12	3	11	3	0	0	0	
12	0	917	4	373	109	31	15	7	13	3	0	0	0	
13	0	1190	5	512	128	48	21	6	21	1	0	0	0	
14	0	1719	7	757	176	73	28	13	27	1	0	0	0	
15	0	2839	11	1183	283	106	44	31	43	8	1	0	0	
16	0	4455	18	1581	427	179	108	51	67	17	2	1	0	

NWSH1406 ADCP 3368

Deployment: NWSH1406 updated 2015/10/14
 Instrument no.: 3368
 Instrument freq.: 75
 Latitude: 60 11.934 N
 Longitude: 04 14.380 W
 Bottom depth: 202
 Instrument depth: 201
 Center depth of first bin: 182
 Bin length: 10
 Number of bins: 16
 Number of first ensemble: 375
 Time of first ensemble: 2014 06 08 12 40
 Number of last ensemble: 25474
 Time of last ensemble: 2015 05 23 02 59
 Time between ensembles (min.): 20
 All directions have been corrected by adding: -4.0

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	182	20	205	135	50	991
2	172	30	216	142	53	991
3	162	40	222	147	56	992
4	152	50	225	150	57	991
5	142	60	227	151	59	991
6	132	70	228	153	60	989
7	122	80	229	154	60	986
8	112	90	231	156	60	984
9	102	100	231	157	61	980
10	92	110	232	157	61	976
11	82	120	233	158	61	970
12	72	130	235	160	61	963
13	62	140	239	162	61	953
14	52	150	244	164	61	932
15	42	160	250	166	61	887
16	32	170	259	168	62	823

NWSH1406 ADCP 3368

Frequency of high speeds.

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

Bin no.	Depth (m)	Speed (cm/s)																	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
1	182	814	454	191	63	14	3	1	0	0	0	0	0	0	0	0	0	0	0
2	172	826	486	222	83	24	5	2	0	0	0	0	0	0	0	0	0	0	0
3	162	829	502	247	97	29	7	2	1	0	0	0	0	0	0	0	0	0	0
4	152	827	506	257	105	32	9	2	1	0	0	0	0	0	0	0	0	0	0
5	142	829	509	261	111	34	9	3	1	0	0	0	0	0	0	0	0	0	0
6	132	825	505	267	117	38	10	3	1	0	0	0	0	0	0	0	0	0	0
7	122	823	509	272	117	41	11	3	1	0	0	0	0	0	0	0	0	0	0
8	112	825	512	273	123	42	11	3	1	0	0	0	0	0	0	0	0	0	0
9	102	819	510	275	122	43	12	3	1	0	0	0	0	0	0	0	0	0	0
10	92	815	506	276	122	45	13	4	1	0	0	0	0	0	0	0	0	0	0
11	82	809	502	276	124	45	15	4	1	0	0	0	0	0	0	0	0	0	0
12	72	806	506	276	127	48	16	6	2	0	0	0	0	0	0	0	0	0	0
13	62	804	508	280	135	54	19	7	2	1	0	0	0	0	0	0	0	0	0
14	52	787	507	283	138	59	23	8	3	1	0	0	0	0	0	0	0	0	0
15	42	755	494	281	142	64	26	11	4	1	0	0	0	0	0	0	0	0	0
16	32	709	475	278	146	69	30	13	6	2	1	0	0	0	0	0	0	0	0

NWSH1406 ADCP 3368

Harmonic constants for constituent M2 for deployment NWSH1406.

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	182	175	229	19	357	175	15	176	49	C
02	172	189	231	15	17	190	8	176	51	C
03	162	198	233	10	36	199	3	177	53	C
04	152	203	234	5	58	204	0	179	54	A
05	142	206	235	1	176	206	1	0	235	A
06	132	207	236	4	214	207	1	1	236	A
07	122	207	237	6	236	208	0	2	237	A
08	112	208	238	8	246	208	1	2	238	C
09	102	206	238	12	267	206	6	3	238	C
10	92	206	239	14	268	206	7	3	239	C
11	82	202	239	16	269	203	8	4	239	C
12	72	201	239	18	274	201	10	4	239	C
13	62	199	240	21	275	200	12	5	240	C
14	52	198	240	22	273	199	12	5	240	C
15	42	197	240	24	271	198	12	6	241	C
16	32	197	241	26	271	198	13	7	241	C

Harmonic constants for constituent S2 for deployment NWSH1406.

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	182	64	268	6	338	64	6	2	268	C
02	172	69	270	5	358	69	5	0	270	C
03	162	73	271	6	10	73	5	179	91	C
04	152	74	272	5	360	74	5	0	272	C
05	142	74	272	6	346	74	6	1	272	C
06	132	74	273	7	336	74	6	2	273	C
07	122	74	274	8	333	74	7	3	274	C
08	112	73	275	9	332	73	8	4	275	C
09	102	71	275	11	330	72	9	5	276	C
10	92	68	275	11	335	69	10	5	275	C
11	82	67	275	13	340	67	12	5	276	C
12	72	64	275	14	343	64	13	5	276	C
13	62	64	275	15	343	65	14	5	276	C
14	52	65	274	16	340	65	14	6	276	C
15	42	65	273	15	338	66	14	6	274	C
16	32	66	271	12	343	66	12	3	272	C

NWSH1406 ADCP 3368

Harmonic constants for constituent N2 for deployment NWSH1406.

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	182	36	204	7	328	37	6	174	23	C
02	172	39	205	6	337	39	4	174	24	C
03	162	40	207	5	350	41	3	174	27	C
04	152	41	209	4	358	41	2	175	29	C
05	142	42	211	2	7	42	1	177	31	C
06	132	43	211	2	358	43	1	177	31	C
07	122	44	211	1	355	44	0	179	31	C
08	112	45	213	1	336	45	1	179	33	C
09	102	45	213	1	300	45	1	0	213	C
10	92	44	213	2	278	44	2	1	213	C
11	82	43	214	3	252	43	2	3	214	C
12	72	43	217	4	241	43	2	5	217	C
13	62	43	218	4	230	43	1	6	218	C
14	52	43	220	5	219	44	0	6	220	A
15	42	43	221	5	225	43	0	7	221	C
16	32	43	220	5	210	44	1	6	220	A

Harmonic constants for constituent O1 for deployment NWSH1406.

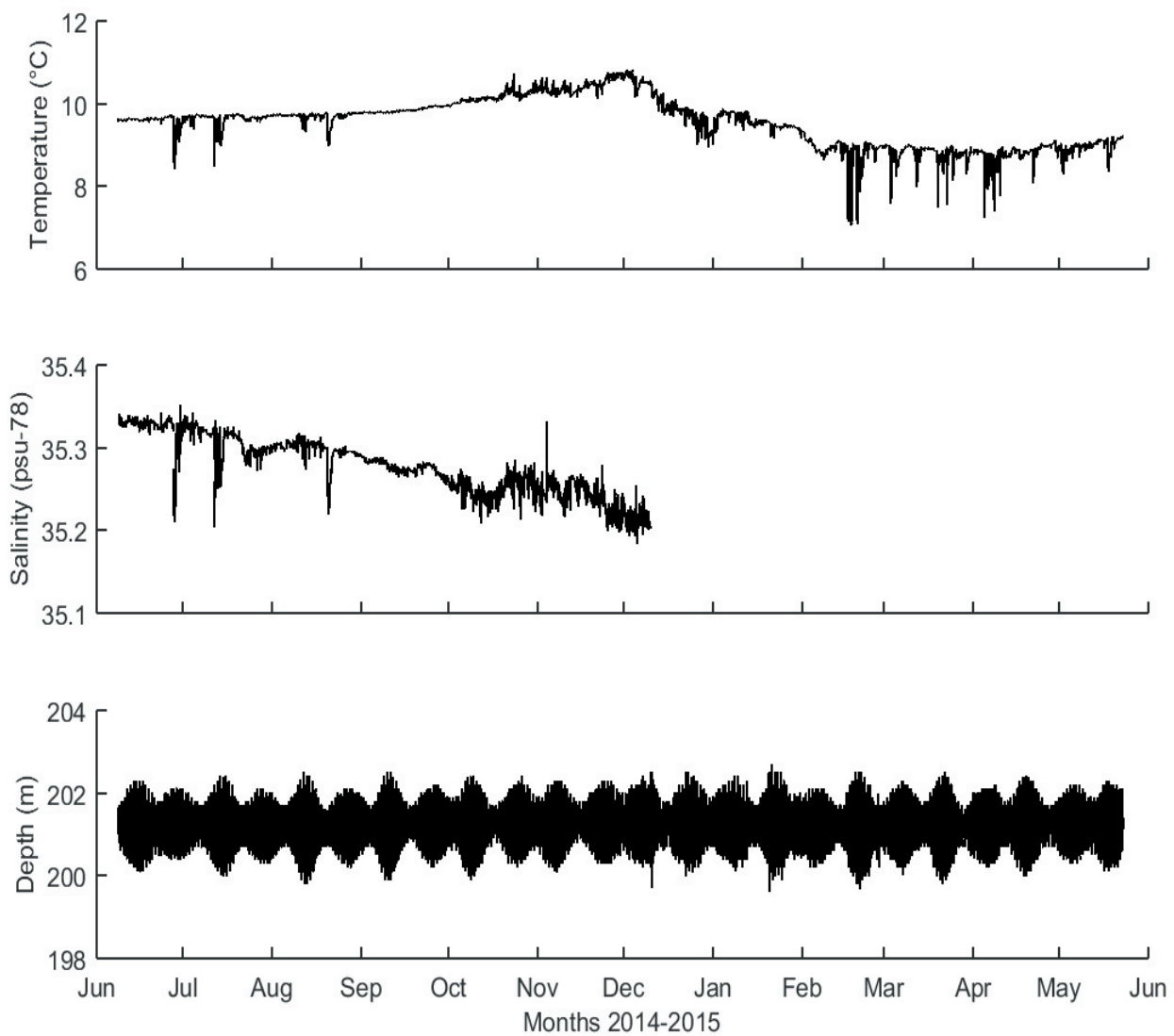
Bin	Depth m	E-ampl mm/sec	E-gpl deg	N-ampl mm/sec	N-gpl deg	Major mm/sec	Minor mm/sec	Incl deg	Grphl deg	R
01	182	15	18	18	319	20	11	52	342	A
02	172	18	16	19	314	23	14	48	343	A
03	162	21	14	18	313	24	14	37	351	A
04	152	20	18	18	312	22	15	37	352	A
05	142	20	20	18	309	22	15	33	356	A
06	132	22	19	16	309	23	14	25	2	A
07	122	23	16	17	309	24	15	28	358	A
08	112	24	17	17	308	26	15	23	2	A
09	102	25	18	16	315	27	13	22	6	A
10	92	27	15	17	313	29	14	23	3	A
11	82	25	14	16	312	27	13	23	2	A
12	72	25	12	15	315	27	12	23	2	A
13	62	26	13	17	311	28	14	23	1	A
14	52	26	10	16	310	28	13	21	360	A
15	42	24	10	16	312	26	12	25	358	A
16	32	22	9	13	320	24	9	24	359	A

NWSH1406 ADCP 3368

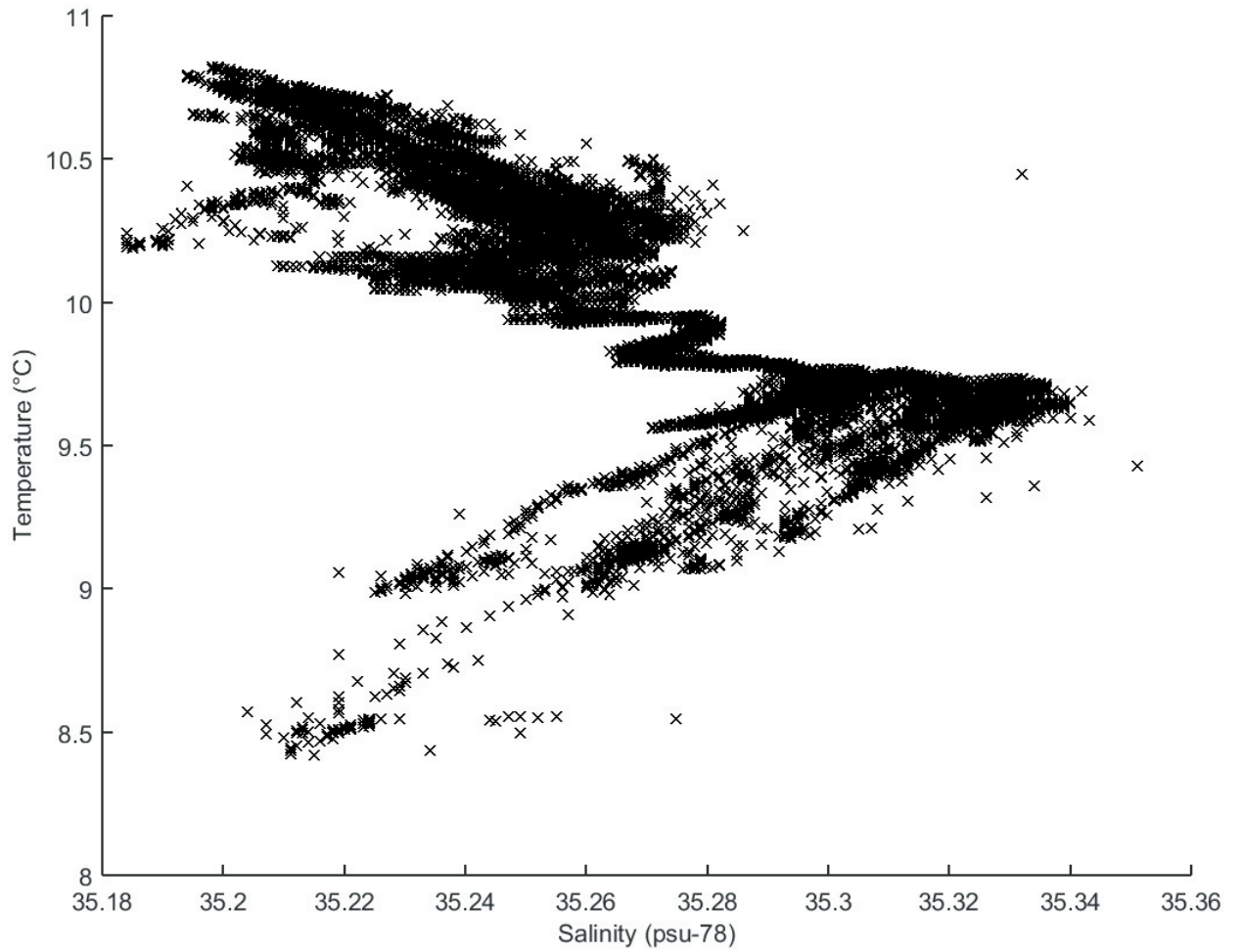
Harmonic constants for constituent K1 for deployment NWSH1406.

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	182	23	232	21	147	23	21	20	214	A
02	172	25	232	23	142	25	23	0	232	A
03	162	24	229	26	135	26	24	116	111	A
04	152	25	223	27	129	27	24	107	113	A
05	142	26	223	28	126	29	25	121	98	A
06	132	29	222	27	126	30	26	153	66	A
07	122	32	222	27	125	33	27	162	57	A
08	112	34	222	28	126	34	27	166	53	A
09	102	34	220	28	126	34	28	170	48	A
10	92	33	220	28	126	33	28	171	47	A
11	82	33	217	29	129	33	29	5	213	A
12	72	33	215	29	129	33	29	13	203	A
13	62	33	211	29	128	34	28	19	195	A
14	52	32	210	27	129	33	26	21	193	A
15	42	29	208	27	132	32	25	36	178	A
16	32	25	210	26	135	28	22	48	170	A

NWSH1406 MicroCat 5184



NWSH1406 MicroCat 5184





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