

Tidal Analysis of Current at LT-B

ADCP Observations, 9.2 m

Mooring Number: 5091

File Name: 5091adc-alh.nc

nobs = 3671, ngood = 3669, record length (days) = 152.96

start time: 23-Oct-1997 16:37:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 2.14, x trend= 0

var(x)= 22.526 var(xp)= 5.6701 var(xres)= 16.8293
percent var predicted/var original= 25.2 %

y0= -5.28, x trend= 0

var(y)= 74.3002 var(yp)= 19.7809 var(yres)= 54.4515
percent var predicted/var original= 26.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.843	1.618	0.058	1.37	130.03	64.95	170.62	148.64	0.27
MSF	0.0028219	1.052	2.012	-0.282	1.04	122.58	59.26	145.40	131.76	0.27
ALP1	0.0343966	0.617	0.453	-0.140	0.46	133.17	56.12	260.73	56.75	1.9
2Q1	0.0357064	0.480	0.557	0.086	0.42	118.17	54.75	273.21	77.10	0.74
Q1	0.0372185	0.390	0.483	-0.036	0.40	111.20	55.71	250.94	99.14	0.65
O1	0.0387307	0.427	0.486	0.031	0.36	77.51	48.52	285.94	82.89	0.77
NO1	0.0402686	0.185	0.300	0.001	0.28	48.05	82.08	187.35	126.55	0.38
K1	0.0417807	0.487	0.408	-0.008	0.56	15.20	88.10	294.24	57.75	1.4
J1	0.0432929	0.469	0.490	-0.189	0.36	94.86	55.68	224.91	99.43	0.92
OO1	0.0448308	0.261	0.472	-0.037	0.54	19.89	109.36	95.77	146.07	0.31
UPS1	0.0463430	0.317	0.557	0.084	0.44	142.83	81.31	72.35	147.96	0.32
EPS2	0.0761773	0.165	0.184	-0.034	0.19	146.17	85.43	90.98	88.37	0.8
MU2	0.0776895	0.211	0.186	-0.045	0.20	134.76	74.28	195.22	75.93	1.3
*N2	0.0789992	1.562	0.254	0.109	0.22	70.01	7.41	176.25	10.64	38
*M2	0.0805114	6.562	0.272	1.087	0.24	62.31	1.80	207.82	2.35	5.8e+002
L2	0.0820236	0.296	0.276	-0.081	0.22	51.12	62.70	283.83	70.24	1.2
*S2	0.0833333	1.116	0.288	0.158	0.23	61.56	12.74	246.62	13.43	15
ETA2	0.0850736	0.407	0.363	-0.101	0.26	78.29	48.05	302.86	66.32	1.3
MO3	0.1192421	0.141	0.144	-0.005	0.14	92.00	73.81	11.50	82.29	0.96
M3	0.1207671	0.071	0.105	-0.045	0.10	35.92	126.67	137.53	120.18	0.46
MK3	0.1222921	0.178	0.142	-0.074	0.14	46.14	64.80	352.38	55.94	1.6
SK3	0.1251141	0.076	0.111	-0.018	0.10	112.93	123.43	90.55	136.54	0.47
MN4	0.1595106	0.066	0.086	0.054	0.10	163.55	122.25	200.88	148.50	0.58
*M4	0.1610228	0.232	0.107	0.008	0.12	78.05	32.20	89.51	27.46	4.7
SN4	0.1623326	0.039	0.083	-0.002	0.08	43.91	130.15	340.82	145.84	0.22
MS4	0.1638447	0.109	0.106	0.039	0.09	115.12	71.71	195.52	77.54	1
S4	0.1666667	0.089	0.104	-0.014	0.10	151.15	82.90	81.41	88.87	0.74
2MK5	0.2028035	0.042	0.055	-0.032	0.07	43.42	106.89	219.65	127.27	0.59
2SK5	0.2084474	0.065	0.075	0.029	0.07	86.92	92.67	108.02	127.79	0.76
*2MN6	0.2400221	0.358	0.157	0.018	0.08	105.73	12.00	320.79	23.19	5.2
*M6	0.2415342	0.835	0.133	-0.005	0.06	97.18	3.56	6.04	9.54	39
*2MS6	0.2443561	0.260	0.143	0.001	0.06	90.66	15.03	62.47	34.84	3.3
2SM6	0.2471781	0.055	0.111	0.009	0.06	104.29	39.65	159.48	154.13	0.25
3MK7	0.2833149	0.037	0.051	0.010	0.05	96.12	77.43	33.90	135.28	0.51
M8	0.3220456	0.054	0.055	-0.009	0.04	106.00	62.66	97.53	64.81	0.96

total var= 96.8262 pred var= 25.451
percent total var predicted/var original= 26.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.9 m

Mooring Number: 5181

File Name: 5181adc-alh.nc

nobs = 2017, ngood = 2017, record length (days) = 84.04

start time: 25-Mar-1998 18:37:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.479, x trend= 0

var(x)= 46.1891 var(xp)= 13.4452 var(xres)= 32.5235
percent var predicted/var original= 29.1 %

y0= -1.49, x trend= 0

var(y)= 74.2761 var(yp)= 19.6408 var(yres)= 54.7971
percent var predicted/var original= 26.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.843	2.579	0.032	2.00	116.46	50.60	298.90	61.33	1.2
MSF	0.0028219	3.058	2.440	0.245	2.45	129.89	54.33	146.83	54.66	1.6
ALP1	0.0343966	0.962	0.872	-0.342	0.80	117.65	69.49	118.58	79.52	1.2
2Q1	0.0357064	0.558	0.801	-0.095	0.81	82.27	109.16	192.72	134.81	0.49
Q1	0.0372185	0.444	0.840	0.149	0.73	29.96	112.54	252.26	137.12	0.28
O1	0.0387307	0.890	0.935	0.042	0.78	72.39	69.97	291.06	76.86	0.91
NO1	0.0402686	0.220	0.503	0.162	0.50	151.32	139.82	338.26	162.16	0.19
*K1	0.0417807	1.907	0.914	-1.313	0.82	125.50	61.75	219.42	60.52	4.4
J1	0.0432929	0.771	0.812	-0.161	0.84	131.00	94.17	168.99	80.62	0.9
*OO1	0.0448308	1.586	1.079	-0.638	1.34	2.91	66.76	144.64	58.26	2.2
UPS1	0.0463430	0.168	1.007	-0.026	1.09	159.10	128.08	201.32	287.71	0.028
EPS2	0.0761773	0.453	0.644	-0.088	0.61	165.32	108.77	15.74	117.87	0.49
MU2	0.0776895	0.938	0.683	-0.427	0.86	144.24	67.06	283.64	70.95	1.9
*N2	0.0789992	1.633	0.796	0.645	0.81	36.15	37.50	147.45	42.06	4.2
*M2	0.0805114	6.825	0.849	1.850	0.88	53.34	7.05	201.08	7.40	65
L2	0.0820236	0.579	0.737	0.140	0.73	126.54	99.92	8.37	126.47	0.62
*S2	0.0833333	1.279	0.846	0.266	0.72	22.89	47.38	205.99	43.55	2.3
ETA2	0.0850736	0.083	0.956	-0.021	0.95	49.77	138.25	130.76	261.58	0.0076
MO3	0.1192421	0.351	0.323	-0.132	0.33	50.85	73.13	284.72	69.57	1.2
M3	0.1207671	0.164	0.202	0.035	0.22	142.30	106.23	300.34	134.82	0.66
MK3	0.1222921	0.298	0.278	-0.154	0.27	51.62	85.24	42.17	96.65	1.2
SK3	0.1251141	0.171	0.274	-0.125	0.23	150.23	124.27	280.98	163.99	0.39
MN4	0.1595106	0.271	0.209	-0.072	0.25	119.35	72.39	67.20	56.48	1.7
*M4	0.1610228	0.330	0.213	0.077	0.24	100.39	56.04	97.18	51.91	2.4
SN4	0.1623326	0.081	0.188	-0.015	0.18	106.02	132.26	75.94	167.10	0.19
MS4	0.1638447	0.090	0.194	0.029	0.18	163.03	107.15	233.33	183.70	0.21
S4	0.1666667	0.102	0.213	-0.055	0.20	90.00	145.13	54.68	138.74	0.23
2MK5	0.2028035	0.027	0.144	-0.009	0.14	46.43	143.42	199.13	225.12	0.036
2SK5	0.2084474	0.098	0.145	-0.013	0.17	55.30	101.50	144.69	154.89	0.46
*2MN6	0.2400221	0.459	0.146	-0.011	0.18	92.18	19.30	311.43	16.04	9.9
*M6	0.2415342	0.826	0.132	-0.050	0.17	92.68	12.67	9.05	9.61	39
*2MS6	0.2443561	0.336	0.130	-0.027	0.18	93.14	32.37	52.00	26.62	6.6
2SM6	0.2471781	0.087	0.141	-0.020	0.10	159.05	87.10	2.59	139.87	0.38
3MK7	0.2833149	0.069	0.094	-0.002	0.09	98.06	111.41	101.13	112.83	0.53
*M8	0.3220456	0.102	0.068	-0.067	0.07	92.82	76.34	110.21	82.10	2.3

total var= 120.4652 pred var= 33.086
percent total var predicted/var original= 27.5 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.7 m

Mooring Number: 5322

File Name: 5322adc-alh.nc

nobs = 2513, ngood = 2513, record length (days) = 104.71

start time: 17-Jun-1998 22:37:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 1.15, x trend= 0

var(x)= 49.2801 var(xp)= 15.4057 var(xres)= 33.791
percent var predicted/var original= 31.3 %

y0= -1.61, x trend= 0

var(y)= 42.8358 var(yp)= 11.6278 var(yres)= 31.3863
percent var predicted/var original= 27.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.937	1.461	-0.026	1.50	111.14	45.84	205.50	53.15	1.8
MSF	0.0028219	1.907	1.487	-0.088	1.36	107.15	49.83	173.48	55.26	1.6
ALP1	0.0343966	0.461	0.700	-0.005	0.63	87.87	115.91	289.44	124.53	0.43
2Q1	0.0357064	0.536	0.748	-0.340	0.80	16.87	107.25	59.94	121.77	0.51
Q1	0.0372185	0.509	0.663	-0.065	0.62	132.12	119.35	349.56	128.16	0.59
O1	0.0387307	0.854	0.797	-0.287	0.85	118.19	84.15	314.63	78.05	1.1
NO1	0.0402686	0.432	0.646	-0.117	0.52	167.00	87.86	116.16	122.33	0.45
*K1	0.0417807	1.758	0.771	-1.047	0.96	92.84	55.17	330.28	51.69	5.2
J1	0.0432929	0.462	0.732	-0.296	0.75	139.16	124.55	14.83	164.57	0.4
OO1	0.0448308	0.902	0.926	-0.645	0.87	145.03	101.68	176.10	112.38	0.95
UPS1	0.0463430	0.498	0.976	-0.140	0.99	159.52	118.93	258.43	190.73	0.26
EPS2	0.0761773	0.857	0.884	-0.520	0.86	111.42	108.38	187.21	94.03	0.94
MU2	0.0776895	1.012	0.919	-0.151	0.84	37.56	59.32	62.91	76.92	1.2
*N2	0.0789992	1.459	0.824	0.768	0.94	139.47	64.92	257.43	70.49	3.1
*M2	0.0805114	5.399	1.171	3.435	0.97	27.58	21.68	172.34	23.62	21
L2	0.0820236	1.483	1.281	-0.378	0.88	158.01	46.10	321.62	49.79	1.3
*S2	0.0833333	1.510	0.959	-0.654	1.15	102.51	70.85	285.11	56.22	2.5
ETA2	0.0850736	1.149	1.168	-0.590	1.26	76.05	130.81	86.09	98.68	0.97
MO3	0.1192421	0.190	0.270	0.058	0.26	145.76	108.63	339.19	119.83	0.49
*M3	0.1207671	0.432	0.295	-0.055	0.28	163.73	34.60	91.81	42.10	2.2
MK3	0.1222921	0.196	0.262	0.024	0.22	174.71	77.30	329.27	95.52	0.56
SK3	0.1251141	0.239	0.258	-0.115	0.29	70.92	102.94	352.47	101.56	0.86
MN4	0.1595106	0.332	0.321	-0.170	0.27	24.33	78.15	128.74	94.12	1.1
*M4	0.1610228	0.457	0.255	0.046	0.30	43.28	51.40	123.43	45.54	3.2
SN4	0.1623326	0.365	0.291	-0.160	0.25	168.89	56.12	263.31	84.10	1.6
MS4	0.1638447	0.328	0.272	-0.032	0.32	71.96	74.97	198.01	58.61	1.5
S4	0.1666667	0.279	0.290	-0.132	0.28	18.38	78.97	19.79	102.86	0.93
2MK5	0.2028035	0.158	0.141	-0.051	0.15	131.90	85.61	322.35	89.75	1.3
2SK5	0.2084474	0.212	0.173	-0.103	0.18	46.36	81.11	172.81	69.75	1.5
*2MN6	0.2400221	0.352	0.197	-0.050	0.16	107.20	28.78	345.12	34.50	3.2
*M6	0.2415342	0.840	0.180	-0.152	0.15	91.37	11.50	21.28	11.82	22
2MS6	0.2443561	0.177	0.153	0.089	0.15	120.50	75.20	106.99	79.38	1.3
2SM6	0.2471781	0.190	0.160	-0.022	0.16	29.82	69.69	79.85	63.54	1.4
3MK7	0.2833149	0.108	0.112	-0.024	0.10	7.89	64.40	123.28	81.37	0.93
M8	0.3220456	0.050	0.061	-0.003	0.07	6.50	92.56	296.06	100.81	0.65

total var= 92.1159 pred var= 27.0335
percent total var predicted/var original= 29.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.8 m

Mooring Number: 5422

File Name: 5422adc-alh.nc

nobs = 3192, ngood = 3191, record length (days) = 133.00

start time: 30-Sep-1998 17:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.352, x trend= 0

var(x)= 27.331 var(xp)= 4.4734 var(xres)= 22.8791
percent var predicted/var original= 16.4 %

y0= -1.08, x trend= 0

var(y)= 59.8243 var(yp)= 23.9109 var(yres)= 35.9111
percent var predicted/var original= 40.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	1.738	1.204	-0.232	1.17	131.77	39.46	315.44	44.30	2.1
MSF	0.0028219	0.585	0.944	0.067	0.93	148.51	105.60	107.58	157.76	0.38
*ALP1	0.0343966	0.962	0.581	-0.300	0.57	129.36	43.46	186.04	44.06	2.7
2Q1	0.0357064	0.645	0.537	-0.207	0.46	126.06	58.56	180.73	55.48	1.4
Q1	0.0372185	0.487	0.549	0.172	0.53	143.85	86.27	212.99	82.29	0.79
*O1	0.0387307	0.853	0.580	0.194	0.58	94.06	39.63	332.68	43.67	2.2
NO1	0.0402686	0.423	0.389	-0.067	0.40	138.70	78.19	190.13	80.59	1.2
K1	0.0417807	0.458	0.453	0.016	0.45	16.31	90.32	287.27	71.59	1
J1	0.0432929	0.385	0.455	-0.230	0.41	102.26	87.17	299.73	126.20	0.72
OO1	0.0448308	0.458	0.604	0.127	0.48	102.24	87.02	61.20	118.72	0.57
UPS1	0.0463430	0.911	0.773	-0.201	0.62	139.88	63.11	329.84	58.85	1.4
EPS2	0.0761773	0.145	0.148	-0.085	0.15	114.78	89.51	279.53	98.49	0.96
MU2	0.0776895	0.208	0.156	-0.063	0.16	117.22	60.22	244.98	73.56	1.8
*N2	0.0789992	1.487	0.207	0.368	0.20	68.14	7.74	173.17	8.24	52
*M2	0.0805114	6.461	0.206	1.571	0.23	72.51	1.99	209.63	1.99	9.8e+002
*L2	0.0820236	0.413	0.222	0.216	0.18	42.73	37.08	276.58	38.66	3.4
*S2	0.0833333	0.979	0.200	0.110	0.18	73.03	11.59	241.05	12.98	24
ETA2	0.0850736	0.134	0.230	0.071	0.20	134.82	111.84	69.05	137.50	0.34
MO3	0.1192421	0.067	0.089	-0.033	0.09	5.40	111.26	162.69	121.74	0.57
M3	0.1207671	0.050	0.078	-0.023	0.07	86.54	97.86	275.83	129.43	0.4
MK3	0.1222921	0.128	0.099	-0.009	0.09	72.77	45.90	304.85	54.89	1.7
SK3	0.1251141	0.109	0.086	-0.026	0.09	111.07	68.31	13.89	67.78	1.6
MN4	0.1595106	0.063	0.074	0.002	0.06	105.91	60.68	94.72	91.15	0.73
*M4	0.1610228	0.207	0.082	0.049	0.08	92.54	20.92	120.60	28.08	6.3
*SN4	0.1623326	0.158	0.084	-0.026	0.07	106.72	27.14	218.91	32.04	3.5
MS4	0.1638447	0.095	0.084	0.013	0.07	78.42	46.38	138.49	59.15	1.3
S4	0.1666667	0.010	0.059	0.003	0.05	120.88	115.40	256.36	204.65	0.026
2MK5	0.2028035	0.048	0.052	0.014	0.04	149.69	96.71	230.93	108.26	0.87
2SK5	0.2084474	0.065	0.060	0.003	0.06	67.29	70.44	72.55	70.70	1.2
*2MN6	0.2400221	0.426	0.119	0.021	0.07	108.60	8.84	320.41	13.97	13
*M6	0.2415342	0.722	0.121	-0.017	0.07	106.25	5.55	13.67	8.31	35
*2MS6	0.2443561	0.295	0.100	0.038	0.07	106.40	13.88	68.50	21.60	8.8
2SM6	0.2471781	0.052	0.087	-0.019	0.06	74.05	71.35	176.85	128.42	0.36
3MK7	0.2833149	0.038	0.048	0.005	0.04	123.11	92.43	336.33	97.42	0.63
M8	0.3220456	0.035	0.035	-0.011	0.03	156.50	82.40	133.33	74.04	1

total var= 87.1553 pred var= 28.3843
percent total var predicted/var original= 32.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.0 m

Mooring Number: 5541

File Name: 5541adc-alh.nc

nobs = 2513, ngood = 2493, record length (days) = 104.71

start time: 10-Feb-1999 19:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.962, x trend= 0

var(x)= 34.2294 var(xp)= 10.148 var(xres)= 23.9417
percent var predicted/var original= 29.6 %

y0= -4.25, x trend= 0

var(y)= 106.4098 var(yp)= 32.5513 var(yres)= 73.3072
percent var predicted/var original= 30.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	4.434	2.725	-0.501	2.28	120.41	30.05	54.56	42.78	2.6
MSF	0.0028219	2.834	2.824	-0.566	1.77	114.31	36.31	102.73	73.52	1
ALP1	0.0343966	0.404	0.531	0.093	0.58	128.04	102.43	273.31	130.32	0.58
2Q1	0.0357064	0.588	0.662	-0.346	0.59	136.46	100.59	193.78	106.77	0.79
Q1	0.0372185	0.776	0.695	-0.124	0.66	119.04	53.05	23.85	63.83	1.2
O1	0.0387307	0.543	0.653	-0.283	0.60	4.77	103.72	352.30	88.41	0.69
NO1	0.0402686	0.539	0.616	-0.279	0.58	150.76	103.65	130.56	100.85	0.77
*K1	0.0417807	1.196	0.693	-0.616	0.74	159.10	61.54	153.74	54.82	3
J1	0.0432929	0.438	0.609	-0.191	0.57	94.87	95.53	249.84	113.45	0.52
OO1	0.0448308	0.630	0.756	-0.230	0.79	58.13	104.43	29.33	115.53	0.7
UPS1	0.0463430	0.462	0.729	-0.169	0.75	163.61	123.12	62.18	176.24	0.4
EPS2	0.0761773	0.363	0.308	0.055	0.34	132.28	69.81	85.99	64.70	1.4
*MU2	0.0776895	0.408	0.286	0.088	0.34	139.48	67.13	174.93	64.20	2
*N2	0.0789992	1.626	0.400	0.291	0.34	71.71	14.00	185.73	14.80	16
*M2	0.0805114	7.201	0.394	1.056	0.34	62.53	2.90	210.21	3.33	3.3e+002
L2	0.0820236	0.211	0.301	0.014	0.32	24.67	109.23	167.38	104.74	0.49
*S2	0.0833333	1.484	0.417	0.264	0.36	57.79	14.10	243.72	18.13	13
ETA2	0.0850736	0.545	0.497	-0.238	0.37	110.14	64.82	196.36	83.79	1.2
MO3	0.1192421	0.199	0.232	0.039	0.21	164.88	97.50	18.02	91.16	0.74
M3	0.1207671	0.220	0.188	0.033	0.18	99.12	57.33	38.51	70.50	1.4
MK3	0.1222921	0.230	0.185	0.065	0.24	1.34	75.47	91.23	65.81	1.6
SK3	0.1251141	0.200	0.187	-0.001	0.18	69.53	71.48	127.63	82.41	1.1
MN4	0.1595106	0.138	0.150	0.029	0.12	129.88	82.51	77.57	79.64	0.84
*M4	0.1610228	0.328	0.170	0.105	0.14	100.66	30.99	104.11	39.82	3.7
SN4	0.1623326	0.200	0.182	-0.013	0.14	67.41	47.35	316.80	62.28	1.2
MS4	0.1638447	0.102	0.156	0.003	0.12	63.29	80.20	76.32	88.00	0.43
S4	0.1666667	0.150	0.147	-0.003	0.15	14.95	82.42	170.62	74.15	1
2MK5	0.2028035	0.050	0.102	0.029	0.10	136.88	110.82	69.70	159.35	0.24
2SK5	0.2084474	0.035	0.107	0.023	0.10	39.50	140.70	145.09	186.91	0.11
*2MN6	0.2400221	0.354	0.159	0.017	0.10	98.41	15.37	351.12	28.13	5
*M6	0.2415342	0.745	0.187	0.023	0.10	92.49	7.56	9.91	14.12	16
*2MS6	0.2443561	0.285	0.172	-0.054	0.11	97.42	22.75	67.84	44.38	2.8
2SM6	0.2471781	0.083	0.137	-0.034	0.09	84.81	62.69	99.83	128.38	0.37
3MK7	0.2833149	0.086	0.082	-0.044	0.09	152.95	96.39	186.78	95.42	1.1
*M8	0.3220456	0.116	0.061	0.020	0.06	114.35	30.62	88.69	37.17	3.7

total var= 140.6392 pred var= 42.6993
percent total var predicted/var original= 30.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 11.0 m

Mooring Number: 5712

File Name: 5712adc-alh.nc

nobs = 3173, ngood = 3170, record length (days) = 132.21

start time: 11-May-1999 22:35:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.926, x trend= 0

var(x)= 66.374 var(xp)= 27.9393 var(xres)= 38.4592
percent var predicted/var original= 42.1 %

y0= -0.0763, x trend= 0

var(y)= 52.9497 var(yp)= 15.292 var(yres)= 37.6709
percent var predicted/var original= 28.9 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.401	1.350	-0.366	1.51	91.23	97.42	94.19	74.94	1.1
MSF	0.0028219	0.651	1.063	0.212	1.17	123.87	126.25	173.40	140.21	0.38
ALP1	0.0343966	0.236	0.652	-0.082	0.58	39.93	97.54	127.75	188.61	0.13
2Q1	0.0357064	0.663	0.710	-0.209	0.87	120.52	100.55	35.81	84.54	0.87
Q1	0.0372185	0.446	0.750	-0.272	0.71	138.57	115.86	351.81	154.12	0.35
O1	0.0387307	0.509	0.767	-0.048	0.58	47.48	98.15	282.74	109.85	0.44
NO1	0.0402686	1.017	0.968	-0.646	0.84	159.19	103.30	146.08	109.10	1.1
*K1	0.0417807	2.227	0.733	-1.564	0.78	65.66	60.16	323.97	52.71	9.2
J1	0.0432929	0.199	0.596	-0.035	0.61	93.83	187.18	89.18	188.93	0.11
OO1	0.0448308	0.193	1.010	-0.159	0.88	54.37	113.22	289.88	218.11	0.037
UPS1	0.0463430	0.726	0.992	-0.518	0.97	9.59	88.95	284.96	146.13	0.54
EPS2	0.0761773	0.312	0.600	-0.207	0.48	26.29	93.11	179.76	180.93	0.27
MU2	0.0776895	0.236	0.628	0.079	0.53	146.91	102.78	346.20	160.97	0.14
*N2	0.0789992	2.244	0.898	0.432	0.74	29.44	20.37	143.27	22.41	6.2
*M2	0.0805114	7.965	0.940	1.531	0.80	33.87	5.18	192.39	7.12	72
L2	0.0820236	0.349	0.602	0.271	0.57	116.23	129.65	311.00	137.60	0.33
*S2	0.0833333	1.534	0.863	0.076	0.77	38.65	28.04	232.95	33.35	3.2
ETA2	0.0850736	0.457	0.694	-0.319	0.68	165.17	76.63	232.30	172.80	0.43
MO3	0.1192421	0.205	0.235	0.028	0.23	23.87	89.69	164.50	96.93	0.76
M3	0.1207671	0.140	0.199	0.110	0.20	107.15	146.61	198.51	140.83	0.49
MK3	0.1222921	0.312	0.269	-0.060	0.25	25.70	67.43	153.09	59.18	1.3
SK3	0.1251141	0.252	0.265	-0.050	0.25	169.71	65.79	41.81	80.24	0.9
MN4	0.1595106	0.150	0.204	-0.118	0.20	99.36	136.81	42.17	117.26	0.54
*M4	0.1610228	0.534	0.186	-0.317	0.27	91.66	49.26	95.87	40.11	8.2
SN4	0.1623326	0.220	0.218	0.025	0.20	159.02	60.29	137.60	79.19	1
MS4	0.1638447	0.157	0.198	-0.015	0.19	132.98	85.13	182.57	94.91	0.63
S4	0.1666667	0.157	0.238	-0.034	0.21	108.36	126.02	150.27	107.28	0.44
2MK5	0.2028035	0.154	0.174	-0.027	0.17	64.17	98.14	262.35	94.22	0.79
2SK5	0.2084474	0.138	0.181	-0.059	0.17	161.43	96.61	153.02	117.72	0.59
*2MN6	0.2400221	0.410	0.156	-0.019	0.18	84.00	28.54	325.47	22.92	6.9
*M6	0.2415342	0.875	0.172	-0.046	0.18	99.05	11.97	19.10	11.18	26
*2MS6	0.2443561	0.276	0.173	-0.067	0.19	88.54	41.74	65.77	46.83	2.5
2SM6	0.2471781	0.131	0.143	0.052	0.13	138.61	98.44	181.02	99.80	0.84
3MK7	0.2833149	0.109	0.128	0.001	0.09	8.15	67.27	315.84	80.91	0.72
*M8	0.3220456	0.105	0.073	-0.057	0.07	133.24	69.26	79.06	67.46	2.1

total var= 119.3238 pred var= 43.2313
percent total var predicted/var original= 36.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.1 m

Mooring Number: 5931

File Name: 5931adc-alh.nc

nobs = 4264, ngood = 4260, record length (days) = 177.67

start time: 21-Sep-1999 19:50:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.665, x trend= 0

var(x)= 25.1987 var(xp)= 4.877 var(xres)= 20.3197
percent var predicted/var original= 19.4 %

y0= -2.48, x trend= 0

var(y)= 72.5025 var(yp)= 21.8224 var(yres)= 50.6868
percent var predicted/var original= 30.1 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.557	1.797	0.270	1.55	126.45	78.21	302.55	215.41	0.096
MSF	0.0028219	0.865	1.800	-0.045	1.60	119.78	67.91	91.74	164.11	0.23
ALP1	0.0343966	0.152	0.256	0.049	0.25	144.50	125.84	250.66	134.09	0.35
2Q1	0.0357064	0.228	0.275	0.063	0.28	147.23	100.25	63.76	97.56	0.69
Q1	0.0372185	0.343	0.344	-0.009	0.30	128.44	62.75	293.29	66.99	0.99
*O1	0.0387307	0.635	0.337	0.029	0.37	167.66	41.25	61.73	28.21	3.6
NO1	0.0402686	0.785	0.559	-0.231	0.54	126.20	52.94	345.24	47.96	2
*K1	0.0417807	0.741	0.398	0.112	0.35	117.58	27.74	16.19	29.14	3.5
J1	0.0432929	0.212	0.270	0.017	0.24	93.79	72.19	201.73	112.89	0.61
OO1	0.0448308	0.274	0.414	0.039	0.37	93.46	78.10	285.99	127.07	0.44
UPS1	0.0463430	0.431	0.453	-0.151	0.41	90.56	69.83	67.88	91.82	0.91
EPS2	0.0761773	0.095	0.154	-0.016	0.16	163.47	120.30	44.68	118.55	0.38
MU2	0.0776895	0.360	0.261	-0.051	0.16	87.08	30.66	152.58	40.11	1.9
*N2	0.0789992	1.614	0.239	0.318	0.19	72.15	7.21	179.26	10.07	46
*M2	0.0805114	6.541	0.222	1.387	0.19	66.93	1.54	211.51	2.33	8.7e+002
*L2	0.0820236	0.415	0.189	0.065	0.17	77.37	24.97	272.19	32.98	4.8
*S2	0.0833333	1.062	0.235	0.371	0.20	67.98	12.71	248.26	15.87	20
ETA2	0.0850736	0.290	0.266	-0.108	0.19	105.86	45.63	195.43	71.75	1.2
MO3	0.1192421	0.077	0.110	-0.006	0.10	78.74	94.49	311.31	110.05	0.49
M3	0.1207671	0.104	0.114	0.044	0.09	61.18	78.72	214.03	87.63	0.83
MK3	0.1222921	0.059	0.088	0.039	0.09	124.71	98.31	337.40	139.26	0.45
SK3	0.1251141	0.113	0.095	0.049	0.10	152.97	93.33	268.98	92.71	1.4
MN4	0.1595106	0.104	0.098	0.011	0.09	87.95	49.26	117.24	68.55	1.1
*M4	0.1610228	0.211	0.097	0.084	0.09	67.14	38.82	81.76	41.00	4.7
SN4	0.1623326	0.036	0.062	0.002	0.07	106.79	87.06	193.83	168.63	0.34
MS4	0.1638447	0.072	0.081	0.014	0.07	76.34	64.45	133.10	96.29	0.79
S4	0.1666667	0.037	0.067	0.023	0.07	164.32	136.74	357.19	124.20	0.31
2MK5	0.2028035	0.035	0.055	-0.012	0.06	148.77	116.89	321.36	112.31	0.41
2SK5	0.2084474	0.027	0.058	0.010	0.06	111.28	130.42	79.97	165.41	0.23
*2MN6	0.2400221	0.403	0.129	0.030	0.08	104.36	11.76	333.26	15.18	9.8
*M6	0.2415342	0.742	0.103	0.014	0.07	99.50	6.37	14.91	8.31	51
*2MS6	0.2443561	0.357	0.100	0.012	0.08	101.50	11.95	61.94	18.42	13
2SM6	0.2471781	0.061	0.072	0.024	0.07	141.76	104.48	104.55	113.98	0.71
3MK7	0.2833149	0.041	0.049	0.001	0.04	86.93	80.21	99.59	104.48	0.7
M8	0.3220456	0.039	0.037	0.017	0.04	174.61	88.11	120.89	73.82	1.1

total var= 97.7012 pred var= 26.6994
percent total var predicted/var original= 27.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.9 m

Mooring Number: 6131

File Name: 6131adc-alh.nc

nobs = 2013, ngood = 2012, record length (days) = 83.88

start time: 15-Feb-2000 20:37:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.0553, x trend= 0

var(x)= 26.4922 var(xp)= 7.254 var(xres)= 19.1813
percent var predicted/var original= 27.4 %

y0= -2.7, x trend= 0

var(y)= 70.4183 var(yp)= 24.1226 var(yres)= 46.4489
percent var predicted/var original= 34.3 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.367	2.531	-0.424	2.17	137.61	65.84	353.53	64.62	0.87
MSF	0.0028219	1.246	2.288	0.195	2.07	130.57	78.53	122.62	128.21	0.3
ALP1	0.0343966	0.480	0.577	-0.184	0.57	124.60	85.20	29.46	106.71	0.69
2Q1	0.0357064	0.282	0.538	-0.045	0.48	115.94	85.12	34.19	150.70	0.28
Q1	0.0372185	0.379	0.542	0.107	0.50	115.86	71.57	329.71	116.12	0.49
O1	0.0387307	0.723	0.641	0.103	0.63	124.42	58.83	334.41	64.92	1.3
NO1	0.0402686	1.231	1.186	-0.383	1.13	142.21	83.11	286.43	85.94	1.1
*K1	0.0417807	0.858	0.500	-0.550	0.64	9.86	84.81	333.46	63.58	2.9
J1	0.0432929	0.647	0.621	-0.497	0.65	134.08	110.63	171.50	118.35	1.1
OO1	0.0448308	0.938	0.988	-0.309	0.87	134.68	70.46	220.24	76.46	0.9
UPS1	0.0463430	0.667	0.803	-0.426	0.75	107.86	81.49	50.68	114.48	0.69
EPS2	0.0761773	0.424	0.331	-0.163	0.39	77.39	72.93	328.35	67.86	1.6
MU2	0.0776895	0.501	0.424	-0.319	0.40	135.18	77.49	65.97	87.79	1.4
*N2	0.0789992	1.041	0.393	0.292	0.46	81.05	31.24	192.85	26.37	7
*M2	0.0805114	7.293	0.446	1.218	0.45	62.47	4.04	212.68	3.61	2.7e+002
L2	0.0820236	0.365	0.301	-0.137	0.32	51.69	67.68	304.12	71.34	1.5
*S2	0.0833333	1.220	0.544	0.266	0.47	59.27	22.07	247.19	22.31	5
ETA2	0.0850736	0.260	0.345	-0.011	0.34	110.56	122.10	283.22	116.85	0.57
MO3	0.1192421	0.068	0.196	-0.002	0.17	115.19	115.98	333.85	152.81	0.12
M3	0.1207671	0.082	0.154	-0.028	0.16	19.72	122.56	191.16	137.08	0.28
MK3	0.1222921	0.164	0.185	-0.112	0.17	140.18	117.46	267.73	108.46	0.79
SK3	0.1251141	0.096	0.181	0.023	0.17	138.74	119.98	180.13	161.60	0.28
MN4	0.1595106	0.122	0.139	0.071	0.14	141.88	104.12	173.97	106.03	0.77
M4	0.1610228	0.203	0.155	0.045	0.15	72.60	48.13	78.78	70.52	1.7
SN4	0.1623326	0.028	0.134	-0.007	0.10	82.77	114.56	157.63	200.51	0.045
MS4	0.1638447	0.207	0.188	0.033	0.15	87.03	48.24	168.03	63.64	1.2
S4	0.1666667	0.100	0.146	-0.001	0.15	41.53	95.39	216.59	110.93	0.46
2MK5	0.2028035	0.095	0.097	0.002	0.09	129.18	65.21	294.48	75.27	0.94
2SK5	0.2084474	0.077	0.079	-0.008	0.09	166.34	110.27	346.63	88.30	0.95
*2MN6	0.2400221	0.304	0.172	-0.045	0.09	89.83	16.14	316.87	32.14	3.1
*M6	0.2415342	0.834	0.159	-0.000	0.09	92.24	5.09	9.25	12.25	28
*2MS6	0.2443561	0.287	0.187	-0.012	0.10	100.41	19.79	48.79	34.75	2.3
2SM6	0.2471781	0.042	0.103	0.003	0.08	13.70	131.85	58.77	161.55	0.17
3MK7	0.2833149	0.036	0.068	-0.002	0.05	84.00	81.34	54.92	155.32	0.28
M8	0.3220456	0.042	0.054	-0.001	0.05	63.55	90.51	156.04	97.16	0.63

total var= 96.9106 pred var= 31.3766
percent total var predicted/var original= 32.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.9 m

Mooring Number: 6151

File Name: 6151adc-alh.nc

nobs = 970, ngood = 969, record length (days) = 40.42

start time: 29-Mar-2000 16:40:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.289, x trend= 0

var(x)= 35.4507 var(xp)= 13.9967 var(xres)= 21.068
percent var predicted/var original= 39.5 %

y0= -2.09, x trend= 0

var(y)= 73.0661 var(yp)= 33.2816 var(yres)= 38.7304
percent var predicted/var original= 45.6 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	5.489	2.034	0.036	2.20	136.11	24.70	355.33	23.60	7.3
MSF	0.0028219	2.356	2.518	-0.055	1.40	112.19	31.48	6.68	71.04	0.88
ALP1	0.0343966	0.267	0.515	0.038	0.45	70.53	113.09	198.05	149.02	0.27
2Q1	0.0357064	0.797	0.696	-0.577	0.70	122.90	99.29	123.83	99.67	1.3
Q1	0.0372185	0.677	0.604	0.067	0.66	123.42	67.25	304.74	80.57	1.3
*O1	0.0387307	1.066	0.707	-0.023	0.78	130.81	47.54	352.52	45.86	2.3
*NO1	0.0402686	2.221	1.286	-0.679	1.52	120.87	45.74	288.33	46.63	3
*K1	0.0417807	1.151	0.702	-0.817	0.65	38.17	75.15	321.53	78.74	2.7
*J1	0.0432929	0.881	0.604	-0.585	0.66	23.01	82.85	300.20	76.91	2.1
OO1	0.0448308	1.190	0.887	-0.349	0.99	147.94	68.83	242.85	63.78	1.8
UPS1	0.0463430	0.606	0.732	-0.470	0.79	53.36	113.68	134.66	126.68	0.69
EPS2	0.0761773	0.537	0.449	-0.152	0.34	85.10	36.35	352.59	61.72	1.4
MU2	0.0776895	0.221	0.376	0.042	0.33	2.93	143.72	288.43	114.47	0.34
*N2	0.0789992	0.984	0.555	-0.043	0.39	97.81	22.17	234.21	32.75	3.1
*M2	0.0805114	6.820	0.506	1.548	0.38	67.14	3.87	233.50	4.65	1.8e+002
L2	0.0820236	0.354	0.360	-0.273	0.31	70.95	89.76	328.78	114.10	0.97
*S2	0.0833333	1.818	0.554	0.307	0.39	74.87	13.60	274.66	16.73	11
ETA2	0.0850736	0.207	0.380	-0.107	0.30	141.73	106.31	346.55	136.05	0.3
MO3	0.1192421	0.212	0.260	0.130	0.28	102.14	75.23	233.69	136.13	0.66
M3	0.1207671	0.064	0.224	0.006	0.19	123.19	86.27	204.21	211.45	0.081
MK3	0.1222921	0.271	0.351	-0.121	0.29	66.65	69.10	1.33	89.81	0.6
SK3	0.1251141	0.283	0.354	-0.056	0.24	87.72	55.53	194.12	93.51	0.64
MN4	0.1595106	0.086	0.166	-0.019	0.11	8.52	58.02	55.93	135.58	0.27
*M4	0.1610228	0.300	0.149	0.079	0.23	89.11	53.41	159.07	34.58	4
*SN4	0.1623326	0.249	0.161	-0.153	0.21	77.55	95.48	255.35	64.32	2.4
*MS4	0.1638447	0.220	0.155	-0.101	0.20	114.98	75.71	180.90	55.47	2
S4	0.1666667	0.162	0.173	0.090	0.13	175.27	58.82	352.02	103.93	0.88
2MK5	0.2028035	0.092	0.160	-0.008	0.16	123.63	121.16	26.45	155.07	0.33
2SK5	0.2084474	0.068	0.176	0.014	0.17	92.60	113.06	98.52	169.91	0.15
2MN6	0.2400221	0.270	0.321	-0.027	0.15	104.95	31.01	40.31	77.78	0.71
*M6	0.2415342	0.968	0.397	0.109	0.17	99.62	9.04	67.19	22.71	5.9
2MS6	0.2443561	0.397	0.353	0.012	0.17	110.29	28.33	108.97	46.21	1.3
2SM6	0.2471781	0.196	0.201	-0.034	0.24	10.71	133.47	109.25	67.42	0.95
3MK7	0.2833149	0.070	0.118	0.016	0.13	138.90	115.53	87.10	148.99	0.36
M8	0.3220456	0.111	0.113	-0.014	0.11	118.99	74.75	225.58	80.49	0.96

total var= 108.5168 pred var= 47.2783
percent total var predicted/var original= 43.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.1 m

Mooring Number: 6271

File Name: 6271adc-alh.nc

nobs = 3360, ngood = 3359, record length (days) = 140.00

start time: 09-May-2000 18:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -1.12, x trend= 0

var(x)= 45.9831 var(xp)= 15.0273 var(xres)= 30.9595
percent var predicted/var original= 32.7 %

y0= -1.24, x trend= 0

var(y)= 84.8142 var(yp)= 26.1001 var(yres)= 58.7393
percent var predicted/var original= 30.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.363	3.415	-0.228	2.02	113.53	44.98	239.20	110.77	0.48
MSF	0.0028219	1.017	2.679	-0.584	1.70	151.69	73.40	215.26	171.17	0.14
ALP1	0.0343966	0.679	0.592	-0.209	0.62	140.75	76.83	236.90	76.88	1.3
2Q1	0.0357064	0.377	0.524	-0.152	0.53	101.15	133.50	309.02	118.67	0.52
Q1	0.0372185	0.243	0.528	0.116	0.47	172.45	105.03	332.00	144.88	0.21
O1	0.0387307	0.723	0.566	0.352	0.62	57.91	75.93	268.39	61.00	1.6
NO1	0.0402686	1.463	1.201	-0.074	1.38	86.66	76.83	352.17	66.83	1.5
*K1	0.0417807	1.182	0.569	-0.980	0.58	83.53	108.20	314.77	98.99	4.3
J1	0.0432929	0.185	0.515	-0.079	0.46	97.56	149.81	232.88	148.83	0.13
OO1	0.0448308	0.436	0.709	0.237	0.70	30.89	115.87	99.61	159.74	0.38
UPS1	0.0463430	0.649	0.639	-0.217	0.72	119.29	97.95	31.93	90.29	1
EPS2	0.0761773	0.300	0.554	-0.021	0.48	14.62	94.29	179.37	135.43	0.29
MU2	0.0776895	0.152	0.546	-0.025	0.47	134.91	129.31	168.57	206.94	0.078
*N2	0.0789992	2.150	0.807	-0.384	0.84	51.15	23.80	180.88	19.37	7.1
*M2	0.0805114	8.128	0.676	1.758	0.80	53.69	6.22	210.13	5.64	1.4e+002
*L2	0.0820236	0.980	0.603	-0.148	0.63	48.99	41.25	280.25	40.44	2.6
*S2	0.0833333	1.165	0.704	0.073	0.70	42.79	39.08	237.59	34.20	2.7
ETA2	0.0850736	0.418	0.601	0.200	0.57	32.06	107.07	58.84	130.13	0.48
MO3	0.1192421	0.423	0.347	-0.098	0.34	12.35	64.20	237.42	66.18	1.5
M3	0.1207671	0.177	0.258	0.083	0.26	6.74	110.77	147.69	143.47	0.47
MK3	0.1222921	0.366	0.334	-0.028	0.33	168.05	82.58	342.33	71.95	1.2
SK3	0.1251141	0.235	0.335	-0.111	0.28	5.81	118.08	174.50	126.69	0.49
MN4	0.1595106	0.185	0.182	0.002	0.20	169.48	95.76	182.36	98.60	1
*M4	0.1610228	0.480	0.247	-0.037	0.28	90.55	31.62	127.78	34.89	3.8
SN4	0.1623326	0.204	0.209	-0.040	0.22	91.40	83.40	79.39	93.49	0.96
MS4	0.1638447	0.168	0.227	-0.045	0.21	104.80	96.68	242.89	107.72	0.55
S4	0.1666667	0.122	0.198	0.021	0.20	108.73	119.15	152.78	155.51	0.38
2MK5	0.2028035	0.148	0.152	-0.025	0.13	8.12	61.60	220.80	80.80	0.95
2SK5	0.2084474	0.076	0.135	0.045	0.13	87.60	137.01	315.89	143.20	0.32
*2MN6	0.2400221	0.496	0.177	-0.052	0.20	93.38	21.43	342.56	19.95	7.9
*M6	0.2415342	0.807	0.196	-0.011	0.19	101.87	11.30	21.23	13.94	17
*2MS6	0.2443561	0.285	0.172	-0.082	0.19	80.54	45.55	85.26	45.66	2.7
2SM6	0.2471781	0.109	0.166	0.037	0.15	104.29	109.79	86.76	120.08	0.43
3MK7	0.2833149	0.103	0.114	-0.050	0.12	106.63	93.95	126.69	100.89	0.81
M8	0.3220456	0.100	0.078	-0.049	0.08	69.78	73.21	161.07	73.00	1.6

total var= 130.7973 pred var= 41.1275
percent total var predicted/var original= 31.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 11.0 m

Mooring Number: 6281

File Name: 6281adc-alh.nc

nobs = 2828, ngood = 2827, record length (days) = 117.83

start time: 19-Jul-2000 19:49:18

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.0699, x trend= 0

var(x)= 36.0122 var(xp)= 8.3011 var(xres)= 27.6956
percent var predicted/var original= 23.1 %

y0= -2.88, x trend= 0

var(y)= 64.9448 var(yp)= 18.3699 var(yres)= 46.5496
percent var predicted/var original= 28.3 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.397	1.985	0.515	1.38	118.83	63.93	332.73	121.73	0.5
MSF	0.0028219	1.533	2.177	-0.435	1.73	128.23	70.64	202.71	108.32	0.5
ALP1	0.0343966	0.227	0.452	-0.045	0.40	45.53	113.55	47.04	155.04	0.25
2Q1	0.0357064	0.620	0.501	-0.328	0.55	116.98	89.61	283.68	77.59	1.5
Q1	0.0372185	0.662	0.499	-0.556	0.55	115.69	110.55	104.58	110.69	1.8
O1	0.0387307	0.583	0.510	0.238	0.47	22.10	65.48	255.37	78.66	1.3
NO1	0.0402686	0.820	0.834	-0.274	0.99	121.30	99.48	288.58	81.73	0.97
*K1	0.0417807	1.381	0.542	-0.631	0.61	88.69	43.57	343.97	37.80	6.5
J1	0.0432929	0.164	0.410	-0.138	0.38	160.19	110.49	201.33	165.84	0.16
OO1	0.0448308	0.315	0.670	-0.299	0.61	81.00	168.33	204.22	161.46	0.22
UPS1	0.0463430	0.427	0.630	-0.014	0.52	12.36	83.28	93.67	102.33	0.46
EPS2	0.0761773	0.347	0.496	-0.079	0.54	73.82	134.17	237.41	134.04	0.49
MU2	0.0776895	0.367	0.555	-0.219	0.60	117.37	133.46	138.42	146.53	0.44
*N2	0.0789992	1.702	0.810	-0.064	0.90	59.14	29.92	168.00	30.02	4.4
*M2	0.0805114	6.048	0.802	2.339	0.93	62.82	10.12	206.06	9.35	57
*L2	0.0820236	1.161	0.735	-0.321	0.66	26.43	38.78	256.23	47.33	2.5
*S2	0.0833333	1.326	0.680	-0.233	0.77	42.09	41.01	238.06	40.67	3.8
ETA2	0.0850736	0.306	0.621	0.074	0.58	46.85	120.37	63.50	155.99	0.24
MO3	0.1192421	0.235	0.254	-0.057	0.26	171.74	97.05	55.52	83.87	0.86
M3	0.1207671	0.116	0.262	0.011	0.23	121.58	121.34	7.96	137.97	0.2
MK3	0.1222921	0.274	0.272	-0.152	0.27	174.58	100.13	295.88	108.98	1
SK3	0.1251141	0.269	0.319	-0.057	0.23	175.62	77.97	62.06	91.08	0.72
MN4	0.1595106	0.307	0.357	-0.007	0.22	13.99	47.05	38.22	69.47	0.74
M4	0.1610228	0.402	0.315	0.196	0.28	30.70	55.50	70.08	78.28	1.6
SN4	0.1623326	0.181	0.263	0.012	0.22	142.40	69.76	96.45	109.78	0.47
MS4	0.1638447	0.274	0.296	-0.086	0.24	34.89	56.55	93.61	81.50	0.86
S4	0.1666667	0.265	0.276	-0.128	0.27	52.04	91.48	224.58	91.15	0.92
2MK5	0.2028035	0.140	0.145	-0.068	0.15	15.10	75.67	192.40	98.91	0.92
2SK5	0.2084474	0.079	0.150	0.060	0.12	52.28	125.45	323.95	158.11	0.28
*2MN6	0.2400221	0.491	0.211	0.022	0.18	100.38	17.43	300.84	27.49	5.4
*M6	0.2415342	0.852	0.247	-0.029	0.17	98.07	10.92	353.09	15.54	12
*2MS6	0.2443561	0.365	0.239	-0.048	0.15	89.33	29.76	54.31	35.32	2.3
2SM6	0.2471781	0.122	0.159	0.008	0.16	172.18	109.19	76.41	106.47	0.59
3MK7	0.2833149	0.052	0.109	-0.036	0.10	22.94	109.31	15.59	152.07	0.23
M8	0.3220456	0.086	0.092	-0.013	0.08	159.02	66.16	67.19	76.27	0.89

total var= 100.9571 pred var= 26.671
percent total var predicted/var original= 26.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.2 m

Mooring Number: 6341

File Name: 6341adc-alh.nc

nobs = 3356, ngood = 3355, record length (days) = 139.83

start time: 26-Sep-2000 20:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.145, x trend= 0

var(x)= 16.9453 var(xp)= 10.9105 var(xres)= 6.0367
percent var predicted/var original= 64.4 %

y0= -3.62, x trend= 0

var(y)= 63.5739 var(yp)= 16.3781 var(yres)= 47.1564
percent var predicted/var original= 25.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.596	2.190	0.258	0.68	96.81	22.90	342.16	98.21	0.53
MSF	0.0028219	0.564	1.954	0.155	0.72	99.37	26.30	183.33	191.82	0.083
ALP1	0.0343966	0.473	0.540	-0.064	0.28	92.10	34.90	350.52	81.74	0.77
2Q1	0.0357064	0.144	0.358	-0.065	0.24	145.72	77.64	260.52	186.49	0.16
Q1	0.0372185	0.313	0.447	-0.004	0.25	93.07	49.01	43.63	129.80	0.49
O1	0.0387307	0.330	0.391	0.011	0.36	49.06	63.23	283.27	91.15	0.71
NO1	0.0402686	0.442	0.656	-0.037	0.47	119.43	53.66	302.59	98.47	0.45
K1	0.0417807	0.748	0.537	0.102	0.26	99.04	24.26	2.03	48.27	1.9
J1	0.0432929	0.144	0.386	0.065	0.30	2.41	171.16	217.74	138.74	0.14
OO1	0.0448308	0.425	0.499	0.007	0.29	81.31	50.35	307.43	101.25	0.72
UPS1	0.0463430	0.258	0.409	0.101	0.35	134.01	79.94	172.34	130.31	0.4
EPS2	0.0761773	0.236	0.195	-0.093	0.20	127.43	63.80	13.20	74.86	1.5
MU2	0.0776895	0.227	0.254	0.065	0.21	84.59	64.76	108.38	89.20	0.8
*N2	0.0789992	1.718	0.258	0.198	0.28	52.84	8.62	180.59	10.55	44
*M2	0.0805114	6.682	0.300	1.539	0.24	50.79	2.22	210.59	2.37	5e+002
*L2	0.0820236	0.415	0.226	0.071	0.18	62.10	31.97	249.92	35.09	3.4
*S2	0.0833333	1.060	0.254	0.256	0.25	44.57	15.81	237.05	16.30	17
ETA2	0.0850736	0.228	0.248	-0.017	0.21	102.27	54.55	313.08	76.88	0.85
MO3	0.1192421	0.106	0.103	-0.023	0.07	113.46	59.62	290.37	71.78	1.1
M3	0.1207671	0.085	0.089	0.011	0.09	171.42	92.49	9.15	82.21	0.92
MK3	0.1222921	0.106	0.093	-0.036	0.09	22.30	84.11	353.27	76.58	1.3
*SK3	0.1251141	0.145	0.097	-0.074	0.10	72.75	59.43	41.09	67.12	2.3
MN4	0.1595106	0.117	0.091	0.058	0.08	113.65	60.20	123.94	69.80	1.6
*M4	0.1610228	0.307	0.101	0.054	0.09	68.56	18.65	85.66	19.84	9.3
SN4	0.1623326	0.106	0.102	-0.018	0.07	97.22	51.22	295.80	64.70	1.1
MS4	0.1638447	0.114	0.099	0.006	0.09	78.04	45.78	130.67	56.70	1.3
S4	0.1666667	0.096	0.086	0.004	0.09	138.97	61.50	273.46	58.20	1.3
*2MK5	0.2028035	0.095	0.065	-0.051	0.07	43.06	71.35	178.99	69.42	2.1
2SK5	0.2084474	0.039	0.049	0.001	0.06	158.63	96.97	167.36	125.19	0.63
*2MN6	0.2400221	0.491	0.177	-0.021	0.07	85.01	7.58	340.93	24.05	7.7
*M6	0.2415342	0.885	0.178	-0.008	0.07	81.78	4.43	9.50	10.98	25
*2MS6	0.2443561	0.291	0.173	-0.009	0.07	85.64	13.09	63.71	35.65	2.8
2SM6	0.2471781	0.078	0.120	0.034	0.08	118.59	50.21	73.87	140.83	0.42
3MK7	0.2833149	0.037	0.053	0.010	0.05	71.37	83.18	317.43	134.65	0.48
M8	0.3220456	0.034	0.048	-0.025	0.04	16.89	133.27	210.65	124.03	0.52

total var= 80.5192 pred var= 27.2886
percent total var predicted/var original= 33.9 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.2 m

Mooring Number: 6351

File Name: 6351adc-alh.nc

nobs = 2479, ngood = 2479, record length (days) = 103.29

start time: 14-Nov-2000 14:50:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.203, x trend= 0

var(x)= 10.7058 var(xp)= 3.3538 var(xres)= 7.3493
percent var predicted/var original= 31.3 %

y0= -2.87, x trend= 0

var(y)= 51.2698 var(yp)= 16.0879 var(yres)= 35.1491
percent var predicted/var original= 31.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.859	1.526	-0.021	0.85	115.72	42.27	29.03	138.08	0.32
MSF	0.0028219	0.620	1.308	-0.126	0.88	129.03	48.93	169.77	158.08	0.22
ALP1	0.0343966	0.415	0.543	-0.094	0.30	101.16	58.62	323.89	111.16	0.58
2Q1	0.0357064	0.257	0.398	-0.055	0.37	127.33	73.56	7.25	136.43	0.42
Q1	0.0372185	0.249	0.447	-0.089	0.32	102.74	77.06	348.13	155.13	0.31
O1	0.0387307	0.252	0.396	-0.086	0.37	55.71	86.16	230.11	139.30	0.4
NO1	0.0402686	0.578	0.655	-0.115	0.59	125.99	66.82	5.76	82.83	0.78
K1	0.0417807	0.265	0.439	0.206	0.40	102.51	88.29	354.20	157.24	0.36
J1	0.0432929	0.301	0.412	0.055	0.35	104.28	58.94	304.48	125.91	0.53
OO1	0.0448308	0.350	0.562	-0.109	0.40	105.04	63.40	288.49	123.78	0.39
UPS1	0.0463430	0.439	0.505	-0.026	0.44	130.62	68.35	170.39	87.93	0.75
EPS2	0.0761773	0.172	0.192	0.034	0.19	90.97	79.11	197.56	108.89	0.81
MU2	0.0776895	0.302	0.230	-0.104	0.24	73.50	56.47	85.15	65.83	1.7
*N2	0.0789992	1.317	0.273	0.455	0.25	69.32	13.13	185.82	13.58	23
*M2	0.0805114	5.436	0.274	2.005	0.20	73.79	3.34	216.77	3.84	3.9e+002
*L2	0.0820236	0.405	0.220	0.066	0.18	71.07	28.89	248.78	35.87	3.4
*S2	0.0833333	0.910	0.256	0.287	0.19	75.80	17.61	251.18	21.99	13
ETA2	0.0850736	0.142	0.210	0.068	0.18	92.45	91.99	30.22	127.81	0.46
MO3	0.1192421	0.131	0.159	-0.011	0.13	98.99	67.73	24.62	93.76	0.67
M3	0.1207671	0.095	0.123	0.036	0.12	70.38	82.64	199.74	116.30	0.6
MK3	0.1222921	0.101	0.136	-0.009	0.11	110.00	70.76	99.49	113.36	0.55
SK3	0.1251141	0.084	0.142	0.017	0.12	123.41	99.45	31.82	137.28	0.35
MN4	0.1595106	0.059	0.081	-0.024	0.09	131.42	110.91	100.81	123.97	0.53
*M4	0.1610228	0.196	0.113	-0.046	0.11	89.76	34.64	98.77	45.32	3
SN4	0.1623326	0.087	0.100	0.006	0.10	77.36	74.19	227.51	89.57	0.77
MS4	0.1638447	0.127	0.108	-0.021	0.11	115.69	57.56	111.93	63.71	1.4
S4	0.1666667	0.068	0.091	0.013	0.08	96.79	93.58	195.16	118.01	0.55
2MK5	0.2028035	0.098	0.091	0.052	0.09	170.86	78.55	313.89	93.32	1.2
2SK5	0.2084474	0.044	0.072	-0.019	0.06	100.53	112.52	53.68	133.38	0.37
*2MN6	0.2400221	0.604	0.214	-0.024	0.10	97.73	9.02	312.13	18.65	7.9
*M6	0.2415342	0.853	0.199	0.031	0.11	94.75	7.30	347.71	13.94	18
*2MS6	0.2443561	0.318	0.193	0.003	0.10	105.21	21.02	60.24	34.83	2.7
2SM6	0.2471781	0.023	0.123	0.009	0.08	122.79	71.77	284.55	236.98	0.035
3MK7	0.2833149	0.037	0.080	0.008	0.07	168.69	119.56	262.95	201.39	0.21
M8	0.3220456	0.040	0.056	0.024	0.06	41.21	99.37	311.41	129.44	0.51

total var= 61.9756 pred var= 19.4417
percent total var predicted/var original= 31.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 11.0 m

Mooring Number: 6361

File Name: 6361adc-alh.nc

nobs = 2174, ngood = 2173, record length (days) = 90.58

start time: 14-Nov-2000 17:50:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 0.571, x trend= 0

var(x)= 17.32 var(xp)= 6.6877 var(xres)= 10.6373
percent var predicted/var original= 38.6 %

y0= -3.45, x trend= 0

var(y)= 54.4802 var(yp)= 17.3153 var(yres)= 37.1249
percent var predicted/var original= 31.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.913	1.842	0.011	1.28	115.34	57.19	38.91	152.89	0.25
MSF	0.0028219	0.851	1.931	0.084	1.17	122.12	43.47	195.80	155.68	0.19
ALP1	0.0343966	0.641	0.530	-0.071	0.45	99.67	44.53	322.48	56.72	1.5
2Q1	0.0357064	0.153	0.437	-0.116	0.33	96.19	100.21	35.32	200.53	0.12
Q1	0.0372185	0.412	0.489	-0.006	0.34	95.65	66.42	1.56	87.16	0.71
O1	0.0387307	0.201	0.441	-0.055	0.40	83.19	99.48	232.97	165.02	0.21
NO1	0.0402686	0.613	0.576	-0.090	0.71	138.34	79.95	332.97	88.32	1.1
K1	0.0417807	0.570	0.543	0.265	0.43	98.39	62.56	354.66	81.81	1.1
J1	0.0432929	0.121	0.397	0.072	0.32	64.79	110.99	321.01	192.07	0.093
OO1	0.0448308	0.464	0.626	-0.177	0.51	75.42	72.99	319.28	93.30	0.55
UPS1	0.0463430	0.482	0.459	0.017	0.47	117.74	66.61	149.72	77.29	1.1
EPS2	0.0761773	0.146	0.168	-0.121	0.20	123.42	142.09	73.95	146.41	0.76
MU2	0.0776895	0.276	0.200	0.142	0.23	56.90	76.78	92.04	64.88	1.9
*N2	0.0789992	1.613	0.220	0.310	0.24	59.77	10.25	173.13	9.39	54
*M2	0.0805114	6.148	0.238	1.783	0.25	60.26	2.86	203.74	2.37	6.7e+002
*L2	0.0820236	0.440	0.214	0.129	0.22	63.00	33.51	239.45	32.51	4.2
*S2	0.0833333	0.809	0.252	0.406	0.26	62.48	25.78	241.71	28.22	10
ETA2	0.0850736	0.181	0.231	-0.022	0.20	115.87	91.10	290.14	88.71	0.61
MO3	0.1192421	0.087	0.126	0.009	0.11	93.86	81.61	347.52	114.17	0.48
M3	0.1207671	0.108	0.113	-0.038	0.11	98.51	75.62	47.35	98.62	0.92
MK3	0.1222921	0.108	0.115	-0.052	0.11	86.72	75.16	292.40	102.49	0.89
SK3	0.1251141	0.153	0.139	-0.011	0.13	129.24	53.02	41.80	63.93	1.2
MN4	0.1595106	0.043	0.089	0.021	0.09	144.21	122.81	125.17	144.59	0.23
*M4	0.1610228	0.262	0.137	0.069	0.13	71.45	36.43	95.96	33.95	3.7
SN4	0.1623326	0.103	0.109	-0.006	0.11	71.31	70.77	209.80	86.44	0.89
MS4	0.1638447	0.112	0.114	0.050	0.11	140.26	90.51	197.90	91.49	0.96
S4	0.1666667	0.063	0.103	-0.014	0.10	166.66	109.23	109.10	140.24	0.38
2MK5	0.2028035	0.097	0.085	0.028	0.08	107.37	64.79	195.39	71.41	1.3
2SK5	0.2084474	0.046	0.073	-0.025	0.08	55.61	128.65	40.92	127.51	0.4
*2MN6	0.2400221	0.512	0.219	-0.012	0.10	92.63	10.44	318.26	21.42	5.5
*M6	0.2415342	0.797	0.201	0.011	0.09	93.64	6.42	342.83	15.40	16
2MS6	0.2443561	0.275	0.195	0.036	0.10	96.55	18.92	55.96	41.05	2
2SM6	0.2471781	0.072	0.130	-0.031	0.09	115.58	57.45	81.45	144.98	0.3
3MK7	0.2833149	0.085	0.079	-0.016	0.07	130.74	78.03	115.36	78.31	1.1
M8	0.3220456	0.027	0.055	0.005	0.06	110.41	119.64	61.40	153.49	0.24

total var= 71.8002 pred var= 24.003
percent total var predicted/var original= 33.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.9 m

Mooring Number: 6401

File Name: 6401adc-alh.nc

nobs = 3044, ngood = 3033, record length (days) = 126.83

start time: 13-Feb-2001 20:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 1.18, x trend= 0

var(x)= 37.4396 var(xp)= 7.0598 var(xres)= 30.3811
percent var predicted/var original= 18.9 %

y0= -2.46, x trend= 0

var(y)= 67.1782 var(yp)= 23.4513 var(yres)= 43.6354
percent var predicted/var original= 34.9 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.367	2.220	-0.197	1.82	118.44	41.16	74.37	63.17	1.1
MSF	0.0028219	1.655	1.671	-0.112	1.72	130.86	58.86	34.59	98.20	0.98
ALP1	0.0343966	0.495	0.691	-0.269	0.70	157.20	127.93	175.93	118.71	0.51
2Q1	0.0357064	0.319	0.696	-0.070	0.59	121.80	128.82	160.07	139.23	0.21
Q1	0.0372185	0.303	0.646	-0.136	0.60	41.43	128.61	25.53	182.52	0.22
O1	0.0387307	0.621	0.730	-0.105	0.71	82.43	76.10	322.20	111.45	0.72
NO1	0.0402686	1.136	0.890	-0.656	0.84	95.99	86.43	144.45	92.71	1.6
*K1	0.0417807	1.502	0.831	-1.294	0.81	47.67	97.43	277.88	99.15	3.3
J1	0.0432929	0.253	0.663	-0.137	0.61	16.64	149.76	349.72	165.16	0.15
OO1	0.0448308	0.554	0.796	-0.239	0.84	143.12	118.12	90.19	141.89	0.48
UPS1	0.0463430	0.443	0.720	0.041	0.65	91.26	110.90	18.80	128.85	0.38
EPS2	0.0761773	0.265	0.385	-0.062	0.39	164.64	108.66	233.69	175.75	0.47
MU2	0.0776895	0.447	0.490	-0.019	0.43	165.12	81.24	331.88	80.72	0.83
*N2	0.0789992	1.500	0.532	0.537	0.55	95.33	26.55	182.84	26.62	7.9
*M2	0.0805114	7.080	0.511	1.572	0.57	64.19	5.46	201.49	4.40	1.9e+002
L2	0.0820236	0.433	0.444	-0.063	0.39	22.72	69.51	188.88	69.43	0.95
*S2	0.0833333	1.357	0.506	0.283	0.55	74.63	25.32	248.47	29.31	7.2
ETA2	0.0850736	0.388	0.425	-0.001	0.43	35.31	78.16	57.12	84.14	0.84
MO3	0.1192421	0.153	0.206	-0.059	0.20	174.47	128.08	327.77	117.17	0.56
M3	0.1207671	0.137	0.186	0.010	0.20	156.87	116.87	205.06	116.99	0.54
MK3	0.1222921	0.073	0.182	-0.040	0.18	0.71	150.04	60.42	169.92	0.16
SK3	0.1251141	0.072	0.190	-0.040	0.20	120.34	109.26	186.75	179.29	0.14
MN4	0.1595106	0.104	0.148	0.012	0.15	108.51	110.57	58.37	125.84	0.49
*M4	0.1610228	0.388	0.195	-0.084	0.21	97.14	38.39	87.04	30.99	4
SN4	0.1623326	0.150	0.179	0.011	0.15	137.10	79.93	266.44	84.93	0.7
MS4	0.1638447	0.158	0.196	0.027	0.16	86.00	85.85	180.11	91.63	0.65
S4	0.1666667	0.078	0.143	-0.033	0.15	148.73	120.21	294.84	162.53	0.3
2MK5	0.2028035	0.102	0.121	-0.008	0.11	109.90	82.09	274.80	92.07	0.71
2SK5	0.2084474	0.096	0.125	-0.005	0.12	106.59	89.67	212.62	100.26	0.6
*2MN6	0.2400221	0.408	0.154	-0.001	0.14	100.97	19.07	313.96	22.24	7.1
*M6	0.2415342	0.876	0.136	-0.033	0.13	111.13	10.19	14.84	9.11	42
*2MS6	0.2443561	0.328	0.152	-0.062	0.15	104.55	29.39	68.15	29.24	4.6
2SM6	0.2471781	0.118	0.133	0.019	0.10	85.85	66.34	104.03	79.28	0.78
3MK7	0.2833149	0.056	0.076	-0.008	0.07	118.47	84.37	57.03	104.20	0.53
M8	0.3220456	0.029	0.051	-0.002	0.05	156.71	142.67	93.43	180.11	0.33

total var= 104.6178 pred var= 30.5111
percent total var predicted/var original= 29.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.0 m

Mooring Number: 6471

File Name: 6471adc-alh.nc

nobs = 3809, ngood = 3805, record length (days) = 158.71

start time: 23-May-2001 21:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.458, x trend= 0

var(x)= 46.978 var(xp)= 21.4449 var(xres)= 25.7019
percent var predicted/var original= 45.6 %

y0= 0.0861, x trend= 0

var(y)= 44.6281 var(yp)= 15.4206 var(yres)= 29.1434
percent var predicted/var original= 34.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.683	1.219	-0.161	1.01	106.93	83.00	72.96	139.15	0.31
MSF	0.0028219	0.965	1.377	-0.032	0.83	81.65	60.97	107.01	110.42	0.49
ALP1	0.0343966	0.145	0.400	-0.016	0.40	91.79	133.74	231.62	159.41	0.13
2Q1	0.0357064	0.158	0.338	0.079	0.39	77.82	130.17	193.74	177.44	0.22
Q1	0.0372185	0.104	0.375	-0.014	0.34	20.43	131.10	127.42	225.68	0.076
O1	0.0387307	0.458	0.489	0.192	0.48	68.63	86.34	304.47	77.20	0.88
NO1	0.0402686	0.325	0.416	-0.215	0.45	174.04	121.37	263.34	136.99	0.61
*K1	0.0417807	1.722	0.582	-1.034	0.55	68.87	36.74	337.04	33.73	8.8
J1	0.0432929	0.210	0.376	0.002	0.37	48.94	117.45	155.51	143.18	0.31
OO1	0.0448308	0.551	0.436	-0.330	0.51	142.55	74.99	4.83	76.14	1.6
UPS1	0.0463430	0.375	0.469	-0.188	0.45	6.78	91.00	75.34	97.69	0.64
EPS2	0.0761773	0.671	0.553	-0.399	0.54	179.14	83.78	27.63	96.82	1.5
MU2	0.0776895	0.495	0.605	-0.174	0.59	176.75	83.96	341.52	102.24	0.67
*N2	0.0789992	2.108	0.779	0.202	0.70	39.89	18.66	175.34	19.29	7.3
*M2	0.0805114	7.595	0.707	1.813	0.62	37.41	5.89	204.58	6.08	1.2e+002
L2	0.0820236	0.678	0.616	-0.274	0.56	6.15	68.13	249.79	80.49	1.2
*S2	0.0833333	1.224	0.613	0.224	0.65	52.49	37.57	251.52	41.52	4
ETA2	0.0850736	0.289	0.494	0.002	0.41	150.10	108.78	247.97	138.86	0.34
MO3	0.1192421	0.271	0.252	-0.091	0.25	161.13	76.47	184.69	70.66	1.2
M3	0.1207671	0.120	0.214	0.002	0.19	11.02	97.97	181.29	130.44	0.32
MK3	0.1222921	0.195	0.222	0.098	0.25	148.49	101.17	337.25	118.68	0.77
SK3	0.1251141	0.144	0.194	-0.034	0.23	63.64	118.92	318.48	122.70	0.55
MN4	0.1595106	0.228	0.239	0.032	0.22	106.30	74.75	68.07	74.30	0.91
*M4	0.1610228	0.443	0.285	0.064	0.27	84.24	43.45	111.66	43.63	2.4
SN4	0.1623326	0.124	0.183	0.028	0.20	30.34	111.22	247.14	123.97	0.46
MS4	0.1638447	0.160	0.211	-0.134	0.19	142.60	119.55	61.63	127.36	0.58
S4	0.1666667	0.087	0.189	0.002	0.20	81.11	129.25	7.84	148.38	0.21
2MK5	0.2028035	0.091	0.164	0.032	0.14	70.73	126.91	312.33	124.40	0.31
2SK5	0.2084474	0.054	0.144	-0.021	0.14	68.31	138.08	153.46	185.80	0.14
*2MN6	0.2400221	0.563	0.202	-0.011	0.20	89.23	20.41	342.98	19.45	7.8
*M6	0.2415342	0.820	0.191	-0.069	0.20	86.93	16.17	17.83	13.47	18
*2MS6	0.2443561	0.332	0.169	-0.016	0.21	80.49	38.94	83.49	35.37	3.8
2SM6	0.2471781	0.067	0.138	0.032	0.13	42.05	120.03	72.37	159.66	0.24
3MK7	0.2833149	0.064	0.101	0.000	0.10	133.41	102.52	27.89	132.87	0.41
M8	0.3220456	0.087	0.070	-0.059	0.07	127.76	98.32	114.33	98.14	1.6

total var= 91.6061 pred var= 36.8655
percent total var predicted/var original= 40.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.4 m

Mooring Number: 6671

File Name: 6671adc-alh.nc

nobs = 1270, ngood = 1268, record length (days) = 52.92

start time: 29-Oct-2001 15:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.624, x trend= 0

var(x)= 16.9081 var(xp)= 7.6573 var(xres)= 9.2313
percent var predicted/var original= 45.3 %

y0= -0.573, x trend= 0

var(y)= 48.5888 var(yp)= 17.4954 var(yres)= 31.1252
percent var predicted/var original= 36.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.519	1.840	0.418	1.05	96.89	49.23	200.24	130.97	0.68
MSF	0.0028219	0.923	1.940	0.285	1.16	105.02	49.66	315.58	159.46	0.23
ALP1	0.0343966	0.603	0.572	-0.079	0.55	111.76	68.58	98.28	64.36	1.1
2Q1	0.0357064	0.743	0.534	-0.201	0.51	115.51	58.30	180.51	63.63	1.9
Q1	0.0372185	0.473	0.563	0.152	0.52	116.97	87.35	280.68	87.47	0.71
*O1	0.0387307	0.826	0.494	0.360	0.57	99.95	63.27	344.47	66.73	2.8
NO1	0.0402686	0.583	0.472	0.170	0.41	96.90	55.89	124.07	64.41	1.5
K1	0.0417807	0.587	0.533	-0.293	0.51	45.62	86.79	129.99	89.75	1.2
J1	0.0432929	0.477	0.473	0.109	0.48	15.85	84.01	239.60	80.97	1
OO1	0.0448308	0.526	0.456	-0.163	0.49	166.54	84.47	353.66	82.42	1.3
UPS1	0.0463430	0.284	0.419	-0.215	0.44	88.02	123.97	109.07	144.55	0.46
EPS2	0.0761773	0.196	0.323	0.095	0.29	70.07	132.92	11.94	125.29	0.37
MU2	0.0776895	0.167	0.297	0.071	0.34	100.59	142.75	14.86	124.73	0.31
*N2	0.0789992	0.913	0.417	0.350	0.37	57.66	33.54	185.86	31.56	4.8
*M2	0.0805114	6.358	0.367	1.448	0.42	58.25	4.43	214.65	3.53	3e+002
L2	0.0820236	0.529	0.448	0.079	0.42	153.26	50.75	308.79	58.47	1.4
*S2	0.0833333	1.621	0.450	0.230	0.43	45.47	16.03	235.41	14.86	13
ETA2	0.0850736	0.349	0.298	0.000	0.32	56.27	77.58	359.88	73.62	1.4
MO3	0.1192421	0.148	0.202	0.009	0.20	100.84	88.69	248.53	108.94	0.53
M3	0.1207671	0.206	0.218	0.162	0.23	112.12	111.41	337.90	105.56	0.89
MK3	0.1222921	0.217	0.207	0.114	0.22	9.61	84.21	252.79	89.18	1.1
SK3	0.1251141	0.176	0.214	0.010	0.19	170.66	79.77	216.67	88.68	0.68
MN4	0.1595106	0.118	0.157	0.059	0.14	36.61	116.59	2.91	111.21	0.56
M4	0.1610228	0.220	0.164	0.081	0.16	71.67	58.85	113.07	59.79	1.8
SN4	0.1623326	0.051	0.144	0.024	0.13	157.16	140.98	283.60	157.31	0.13
MS4	0.1638447	0.109	0.126	-0.011	0.16	15.14	106.83	55.34	108.23	0.76
S4	0.1666667	0.241	0.182	0.012	0.18	16.64	48.69	212.13	51.35	1.8
2MK5	0.2028035	0.114	0.124	-0.006	0.13	83.22	81.05	295.88	98.09	0.84
2SK5	0.2084474	0.088	0.130	-0.007	0.11	109.21	79.08	52.51	95.59	0.46
*2MN6	0.2400221	0.433	0.264	0.093	0.19	91.49	29.57	320.68	36.90	2.7
*M6	0.2415342	0.914	0.225	0.055	0.18	95.98	12.14	17.87	14.33	16
*2MS6	0.2443561	0.330	0.217	-0.017	0.17	86.36	30.06	51.96	45.03	2.3
2SM6	0.2471781	0.084	0.156	-0.007	0.15	152.36	126.18	161.24	127.69	0.29
3MK7	0.2833149	0.076	0.072	-0.026	0.07	108.04	89.79	165.29	76.06	1.1
M8	0.3220456	0.069	0.073	-0.040	0.07	72.60	109.30	231.75	105.93	0.91

total var= 65.4968 pred var= 25.1528
percent total var predicted/var original= 38.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.1 m

Mooring Number: 6851

File Name: 6851adc-alh.nc

nobs = 2493, ngood = 2490, record length (days) = 103.88

start time: 06-Feb-2002 20:55:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.116, x trend= 0

var(x)= 17.5136 var(xp)= 6.6613 var(xres)= 10.7691
percent var predicted/var original= 38.0 %

y0= -1.49, x trend= 0

var(y)= 62.0977 var(yp)= 20.5572 var(yres)= 41.3735
percent var predicted/var original= 33.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	2.505	1.741	-0.359	1.28	119.61	33.14	207.36	48.49	2.1
MSF	0.0028219	1.758	1.664	-0.193	1.19	117.05	37.71	345.35	66.20	1.1
ALP1	0.0343966	0.280	0.452	-0.064	0.37	96.32	60.37	25.18	147.81	0.38
2Q1	0.0357064	0.379	0.587	0.093	0.41	104.44	62.26	246.63	109.88	0.42
Q1	0.0372185	0.364	0.502	0.137	0.43	111.59	64.42	348.34	124.66	0.52
O1	0.0387307	0.316	0.468	0.032	0.45	23.23	135.01	303.16	135.69	0.46
NO1	0.0402686	0.172	0.406	0.022	0.34	124.27	70.28	148.31	159.30	0.18
K1	0.0417807	0.400	0.562	-0.290	0.52	145.05	122.01	141.77	119.66	0.51
J1	0.0432929	0.559	0.610	0.052	0.47	104.04	44.81	95.20	83.59	0.84
OO1	0.0448308	0.282	0.444	0.098	0.31	90.17	65.83	129.07	140.83	0.4
UPS1	0.0463430	0.209	0.408	-0.037	0.36	159.26	110.72	187.28	132.73	0.26
EPS2	0.0761773	0.139	0.286	-0.051	0.28	26.35	107.72	262.14	145.17	0.23
MU2	0.0776895	0.428	0.398	0.056	0.31	82.27	48.04	127.84	62.85	1.2
*N2	0.0789992	1.646	0.452	0.537	0.34	60.70	13.05	185.56	19.80	13
*M2	0.0805114	6.488	0.442	1.525	0.37	62.72	3.84	215.34	3.91	2.2e+002
L2	0.0820236	0.356	0.355	0.106	0.35	46.40	78.01	301.04	89.84	1
*S2	0.0833333	1.186	0.399	0.287	0.37	51.57	18.95	248.66	21.69	8.8
ETA2	0.0850736	0.170	0.249	-0.072	0.23	115.23	102.04	270.83	109.97	0.47
MO3	0.1192421	0.109	0.129	-0.035	0.10	74.02	69.25	305.21	124.93	0.71
M3	0.1207671	0.134	0.134	0.014	0.16	30.65	88.26	98.92	69.35	1
MK3	0.1222921	0.142	0.140	-0.004	0.11	106.71	45.01	259.77	81.34	1
SK3	0.1251141	0.093	0.142	-0.025	0.12	112.93	70.77	286.81	120.10	0.43
MN4	0.1595106	0.079	0.095	0.051	0.10	77.57	107.38	69.80	122.88	0.68
*M4	0.1610228	0.214	0.115	-0.025	0.11	90.30	36.80	113.24	32.33	3.5
SN4	0.1623326	0.099	0.095	-0.067	0.10	176.26	100.75	167.27	100.11	1.1
*MS4	0.1638447	0.166	0.107	0.038	0.12	111.48	52.35	199.53	49.48	2.4
S4	0.1666667	0.136	0.099	0.043	0.11	122.50	54.59	153.35	64.26	1.9
2MK5	0.2028035	0.103	0.121	0.016	0.11	55.42	69.45	278.46	88.11	0.73
2SK5	0.2084474	0.052	0.099	-0.018	0.08	27.30	132.85	55.34	138.56	0.28
*2MN6	0.2400221	0.566	0.188	0.029	0.08	94.24	9.87	331.22	19.17	9.1
*M6	0.2415342	0.690	0.207	-0.027	0.09	94.19	7.23	9.51	16.91	11
*2MS6	0.2443561	0.429	0.193	0.033	0.09	83.26	11.86	75.29	22.63	4.9
2SM6	0.2471781	0.072	0.127	0.006	0.08	91.65	49.79	172.95	129.66	0.32
3MK7	0.2833149	0.073	0.079	0.005	0.07	83.67	58.58	19.57	97.24	0.86
M8	0.3220456	0.041	0.060	0.010	0.06	167.38	107.00	151.26	122.09	0.47

total var= 79.6113 pred var= 27.2185
percent total var predicted/var original= 34.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 10.6 m

Mooring Number: 6871

File Name: 6871adc-alh.nc

nobs = 4778, ngood = 4777, record length (days) = 199.08

start time: 08-Apr-2002 14:40:28

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.128, x trend= 0

var(x)= 45.045 var(xp)= 11.3492 var(xres)= 33.8376
percent var predicted/var original= 25.2 %

y0= -1.1, x trend= 0

var(y)= 70.8183 var(yp)= 26.8886 var(yres)= 43.6857
percent var predicted/var original= 38.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
SSA	0.0002282	0.933	1.486	-0.331	1.39	129.60	81.65	122.81	126.18	0.39
*MM	0.0015122	3.198	2.069	-0.066	1.52	117.42	27.48	152.51	41.85	2.4
MSF	0.0028219	1.047	1.529	0.275	1.23	123.92	74.89	280.29	123.45	0.47
MF	0.0030501	0.924	1.520	0.018	1.20	105.84	76.92	49.44	123.94	0.37
ALP1	0.0343966	0.377	0.439	-0.231	0.42	119.25	112.23	201.53	109.34	0.74
2Q1	0.0357064	0.105	0.373	-0.048	0.32	120.54	142.15	270.84	205.68	0.079
Q1	0.0372185	0.273	0.458	-0.047	0.37	174.53	74.81	91.47	126.25	0.36
*O1	0.0387307	0.681	0.468	0.098	0.56	91.12	63.51	275.35	43.45	2.1
TAU1	0.0389588	0.596	0.520	-0.261	0.44	135.29	77.26	285.08	70.23	1.3
BET1	0.0400404	0.223	0.377	-0.028	0.38	93.95	154.62	88.97	128.01	0.35
NO1	0.0402686	0.243	0.391	-0.132	0.31	14.58	86.60	320.69	126.51	0.39
*P1	0.0415526	1.450	0.470	-1.169	0.52	79.14	84.43	280.49	77.86	9.5
*K1	0.0417807	1.546	0.413	-0.902	0.57	103.47	44.99	306.73	35.51	14
PH11	0.0420089	0.620	0.502	-0.363	0.49	136.35	73.38	215.81	92.35	1.5
J1	0.0432929	0.354	0.466	-0.095	0.36	23.09	85.87	83.86	108.69	0.58
SO1	0.0446027	0.335	0.480	-0.070	0.40	156.81	75.05	22.41	96.57	0.49
OO1	0.0448308	0.546	0.422	-0.107	0.33	163.00	42.36	240.34	59.29	1.7
UPS1	0.0463430	0.268	0.371	-0.212	0.36	137.10	132.34	271.34	145.72	0.52
EPS2	0.0761773	0.308	0.634	-0.131	0.61	72.61	142.18	40.76	133.26	0.24
MU2	0.0776895	0.493	0.607	0.109	0.61	99.10	103.70	172.11	93.92	0.66
*N2	0.0789992	1.634	0.732	0.430	0.92	67.96	40.18	185.70	34.58	5
*M2	0.0805114	6.966	0.747	2.260	0.94	58.79	9.45	209.63	8.38	87
MKS2	0.0807396	0.566	0.676	-0.218	0.57	6.39	72.79	12.38	109.51	0.7
L2	0.0820236	0.231	0.974	-0.079	0.85	146.91	109.50	319.04	190.65	0.056
*S2	0.0833333	1.653	0.880	-0.223	0.88	46.11	31.94	245.30	31.68	3.5
K2	0.0835615	0.489	0.693	0.071	0.48	168.41	86.88	325.91	137.19	0.5
MSN2	0.0848455	0.257	0.599	-0.019	0.64	19.34	111.50	212.88	180.20	0.18
ETA2	0.0850736	0.282	0.517	-0.161	0.47	159.75	120.70	282.05	193.73	0.3
MO3	0.1192421	0.286	0.259	-0.001	0.22	156.20	49.16	68.88	66.14	1.2
M3	0.1207671	0.151	0.274	-0.095	0.21	157.22	101.26	193.54	124.47	0.3
SO3	0.1220640	0.227	0.231	-0.129	0.22	34.84	97.00	139.79	95.86	0.96
MK3	0.1222921	0.275	0.240	-0.053	0.24	177.97	54.51	351.85	70.93	1.3
SK3	0.1251141	0.220	0.218	0.005	0.22	170.79	62.49	77.45	75.64	1
MN4	0.1595106	0.230	0.208	-0.059	0.22	146.65	69.73	153.92	75.38	1.2
*M4	0.1610228	0.333	0.226	-0.021	0.23	68.44	51.55	84.00	50.61	2.2
SN4	0.1623326	0.125	0.217	-0.011	0.19	98.73	130.02	254.29	123.95	0.33
MS4	0.1638447	0.247	0.203	-0.145	0.21	96.43	97.23	177.93	86.46	1.5
MK4	0.1640729	0.169	0.170	-0.083	0.17	15.71	78.76	98.19	103.20	1
S4	0.1666667	0.139	0.197	-0.115	0.22	117.88	137.81	210.09	136.78	0.5
SK4	0.1668948	0.084	0.165	0.066	0.15	88.80	151.59	189.75	155.85	0.26
2MK5	0.2028035	0.175	0.157	-0.130	0.17	131.25	89.32	284.60	103.27	1.2
2SK5	0.2084474	0.108	0.142	-0.043	0.15	84.90	153.35	105.52	122.51	0.58
*2MN6	0.2400221	0.532	0.182	-0.008	0.19	101.00	20.65	332.88	24.84	8.6
*M6	0.2415342	0.902	0.193	0.078	0.19	104.43	13.95	27.16	11.90	22
*2MS6	0.2443561	0.298	0.167	0.076	0.18	94.79	41.33	63.99	39.03	3.2
2MK6	0.2445843	0.197	0.162	-0.036	0.19	115.22	66.27	92.39	64.57	1.5
2SM6	0.2471781	0.105	0.147	0.031	0.16	45.63	112.18	96.94	124.97	0.51
MSK6	0.2474062	0.075	0.141	-0.014	0.13	176.41	112.62	28.74	142.34	0.28
3MK7	0.2833149	0.115	0.116	-0.016	0.11	167.39	59.00	274.42	81.01	0.99

M8 0.3220456 0.035 0.077 -0.014 0.07 44.78 118.50 232.03 173.77 0.21

total var= 115.8633 pred var= 38.2378
percent total var predicted/var original= 33.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.3 m

Mooring Number: 6921

File Name: 6921adc-alh.nc

nobs = 3739, ngood = 3739, record length (days) = 155.79

start time: 21-May-2002 20:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.708, x trend= 0

var(x)= 43.3794 var(xp)= 12.2104 var(xres)= 31.1233
percent var predicted/var original= 28.1 %

y0= -0.736, x trend= 0

var(y)= 76.151 var(yp)= 32.6386 var(yres)= 43.5274
percent var predicted/var original= 42.9 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	3.367	2.319	-0.107	1.87	118.24	36.90	139.79	41.76	2.1
MSF	0.0028219	1.057	1.659	0.109	1.43	106.15	79.77	257.30	129.90	0.41
ALP1	0.0343966	0.454	0.532	-0.199	0.52	109.93	105.17	211.59	97.74	0.73
2Q1	0.0357064	0.140	0.528	0.009	0.41	61.57	122.61	188.42	166.33	0.07
Q1	0.0372185	0.174	0.457	-0.065	0.44	64.13	136.98	282.52	176.33	0.15
*O1	0.0387307	0.970	0.540	-0.210	0.73	85.21	47.61	266.39	44.69	3.2
NO1	0.0402686	0.279	0.381	-0.173	0.31	24.52	91.28	309.05	119.36	0.54
*K1	0.0417807	1.930	0.598	-0.861	0.63	105.30	29.81	316.00	25.33	10
J1	0.0432929	0.463	0.595	-0.107	0.53	175.89	84.91	270.72	92.46	0.61
OO1	0.0448308	0.477	0.418	-0.056	0.41	154.79	65.19	255.31	74.30	1.3
UPS1	0.0463430	0.244	0.384	-0.151	0.39	98.12	148.12	318.29	146.78	0.4
EPS2	0.0761773	0.327	0.613	-0.106	0.58	58.04	127.37	106.44	146.63	0.28
MU2	0.0776895	0.676	0.663	0.018	0.69	87.27	90.59	155.15	70.79	1
*N2	0.0789992	2.191	0.794	0.214	0.87	68.22	26.20	196.05	21.17	7.6
*M2	0.0805114	7.914	0.876	1.589	0.96	58.33	6.29	212.11	7.28	82
L2	0.0820236	0.346	0.824	-0.026	0.74	121.02	139.30	277.05	177.44	0.18
*S2	0.0833333	1.671	0.848	-0.321	0.80	45.18	33.35	256.84	28.56	3.9
ETA2	0.0850736	0.341	0.603	-0.205	0.55	116.56	130.63	290.66	147.81	0.32
MO3	0.1192421	0.222	0.263	0.045	0.29	177.71	84.71	71.56	102.93	0.71
M3	0.1207671	0.213	0.283	-0.114	0.26	16.45	88.61	323.17	123.03	0.57
MK3	0.1222921	0.347	0.324	0.012	0.26	14.93	61.39	189.35	60.60	1.1
SK3	0.1251141	0.251	0.263	0.079	0.23	2.81	69.63	274.33	105.03	0.91
MN4	0.1595106	0.192	0.255	-0.119	0.24	134.94	108.36	134.85	114.84	0.56
M4	0.1610228	0.243	0.219	-0.063	0.26	70.06	88.32	95.47	76.97	1.2
SN4	0.1623326	0.121	0.211	-0.049	0.20	115.41	123.22	250.90	137.02	0.33
MS4	0.1638447	0.212	0.236	-0.108	0.25	81.12	106.25	226.89	99.27	0.81
S4	0.1666667	0.124	0.213	-0.080	0.23	18.02	107.05	264.27	160.75	0.34
2MK5	0.2028035	0.189	0.175	-0.160	0.15	25.07	112.14	337.13	136.32	1.2
2SK5	0.2084474	0.152	0.145	-0.095	0.16	88.14	138.01	63.93	104.26	1.1
*2MN6	0.2400221	0.466	0.207	0.011	0.21	99.11	31.98	346.76	33.45	5.1
*M6	0.2415342	0.862	0.254	0.035	0.18	107.45	15.09	29.53	16.65	12
2MS6	0.2443561	0.212	0.202	0.038	0.21	90.81	72.37	71.59	72.34	1.1
2SM6	0.2471781	0.143	0.201	-0.087	0.21	84.61	115.65	110.95	133.73	0.51
3MK7	0.2833149	0.098	0.131	-0.060	0.10	154.20	99.42	223.23	118.07	0.56
M8	0.3220456	0.041	0.073	-0.007	0.07	147.15	93.21	119.64	141.36	0.31

total var= 119.5305 pred var= 44.849
percent total var predicted/var original= 37.5 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.1 m

Mooring Number: 6991

File Name: 6991adc-alh.nc

nobs = 5036, ngood = 4973, record length (days) = 209.83

start time: 24-Oct-2002 18:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 1.42, x trend= 0

var(x)= 20.2838 var(xp)= 6.2271 var(xres)= 14.0634
percent var predicted/var original= 30.7 %

y0= -3.92, x trend= 0

var(y)= 62.9187 var(yp)= 23.4386 var(yres)= 39.5819
percent var predicted/var original= 37.3 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*SSA	0.0002282	2.322	1.309	-0.176	0.92	110.92	22.48	140.62	38.46	3.1
M5M	0.0013098	0.370	0.855	0.313	0.72	91.74	71.53	20.29	181.93	0.19
MM	0.0015122	1.080	1.069	-0.099	0.91	123.78	59.39	196.24	78.65	1
MSF	0.0028219	0.467	0.912	-0.066	0.75	127.17	77.55	188.68	154.65	0.26
MF	0.0030501	0.698	1.061	0.106	0.73	118.01	59.92	213.31	116.85	0.43
ALP1	0.0343966	0.272	0.286	-0.026	0.26	118.95	65.59	56.18	83.62	0.9
2Q1	0.0357064	0.273	0.248	0.110	0.25	119.94	72.43	92.12	94.64	1.2
SIG1	0.0359087	0.299	0.275	-0.056	0.26	119.56	56.64	84.27	78.64	1.2
Q1	0.0372185	0.214	0.259	-0.026	0.24	125.74	80.52	168.06	89.30	0.68
RHO1	0.0374209	0.213	0.226	-0.037	0.24	153.83	98.30	229.44	92.01	0.9
*O1	0.0387307	0.605	0.358	-0.013	0.27	100.90	29.89	308.04	37.35	2.9
TAU1	0.0389588	0.390	0.332	-0.018	0.36	130.91	49.24	141.25	47.87	1.4
BET1	0.0400404	0.290	0.266	-0.084	0.24	128.73	60.82	126.02	77.82	1.2
NO1	0.0402686	0.304	0.236	0.037	0.18	101.95	42.16	290.29	52.27	1.7
CHI1	0.0404710	0.146	0.218	-0.007	0.22	118.70	83.87	295.73	129.37	0.45
P1	0.0415526	0.294	0.246	-0.142	0.28	153.48	100.00	333.86	88.83	1.4
K1	0.0417807	0.365	0.266	0.122	0.28	55.25	63.33	324.52	64.87	1.9
*PHI1	0.0420089	0.550	0.381	0.005	0.34	124.35	35.48	221.61	39.04	2.1
THE1	0.0430905	0.148	0.218	-0.027	0.19	108.60	84.68	251.32	131.85	0.46
J1	0.0432929	0.159	0.228	-0.075	0.23	111.60	86.63	276.93	154.51	0.49
SO1	0.0446027	0.286	0.266	-0.125	0.25	122.18	77.52	41.06	95.76	1.2
OO1	0.0448308	0.100	0.183	-0.040	0.14	74.23	81.81	224.29	159.53	0.3
UPS1	0.0463430	0.146	0.210	0.051	0.19	94.24	74.71	278.90	113.03	0.49
QQ2	0.0759749	0.127	0.169	-0.069	0.16	148.16	115.64	339.67	124.56	0.56
*EPS2	0.0761773	0.266	0.175	-0.093	0.19	141.20	60.81	312.85	55.34	2.3
2N2	0.0774871	0.190	0.221	0.021	0.16	96.92	44.75	154.44	81.93	0.74
MU2	0.0776895	0.134	0.167	-0.090	0.16	72.51	87.40	188.03	129.39	0.64
*N2	0.0789992	1.535	0.220	0.455	0.17	59.42	8.58	177.89	9.62	49
*NU2	0.0792016	0.491	0.209	0.161	0.22	56.06	27.72	173.19	31.70	5.5
*M2	0.0805114	6.827	0.238	1.526	0.18	64.61	1.89	213.67	1.79	8.2e+002
MKS2	0.0807396	0.201	0.151	-0.042	0.19	10.87	73.94	309.17	49.59	1.8
LDA2	0.0818212	0.195	0.174	-0.096	0.15	56.11	76.58	217.77	85.22	1.3
L2	0.0820236	0.250	0.205	0.129	0.24	16.52	99.07	187.24	75.28	1.5
*S2	0.0833333	1.026	0.220	0.340	0.18	59.61	13.21	245.95	14.18	22
*K2	0.0835615	0.380	0.194	-0.056	0.15	68.85	27.84	248.89	31.25	3.8
MSN2	0.0848455	0.166	0.181	-0.071	0.18	115.02	65.62	343.80	104.15	0.84
ETA2	0.0850736	0.049	0.128	0.015	0.12	11.30	152.45	219.49	166.77	0.15
MO3	0.1192421	0.116	0.085	-0.093	0.09	151.44	112.55	195.52	98.39	1.8
M3	0.1207671	0.095	0.097	-0.012	0.09	163.47	79.00	285.12	81.18	0.96
SO3	0.1220640	0.064	0.086	0.021	0.07	32.54	97.51	208.99	102.90	0.55
*MK3	0.1222921	0.156	0.096	-0.017	0.10	104.90	37.44	12.67	50.14	2.6
SK3	0.1251141	0.068	0.081	0.010	0.08	12.11	101.41	176.63	94.61	0.7
*MN4	0.1595106	0.139	0.085	0.051	0.08	50.46	55.00	51.74	53.39	2.7
*M4	0.1610228	0.239	0.092	0.044	0.09	84.80	23.92	108.38	23.49	6.7
SN4	0.1623326	0.043	0.066	0.006	0.06	9.95	105.64	124.79	116.23	0.43
*MS4	0.1638447	0.141	0.093	0.001	0.09	41.80	38.35	114.24	34.29	2.3
MK4	0.1640729	0.076	0.084	0.013	0.06	53.01	64.49	78.81	70.38	0.81
S4	0.1666667	0.022	0.052	0.014	0.06	100.98	144.68	182.38	201.19	0.18
SK4	0.1668948	0.059	0.061	0.002	0.06	84.92	76.06	133.01	84.78	0.93

2MK5	0.2028035	0.067	0.060	0.008	0.06	52.91	68.10	290.15	60.29	1.2
2SK5	0.2084474	0.027	0.047	0.009	0.05	101.80	119.13	76.23	128.46	0.35
*2MN6	0.2400221	0.483	0.136	-0.052	0.06	97.74	7.69	342.25	14.66	13
*M6	0.2415342	0.717	0.126	-0.000	0.07	95.99	4.92	9.67	9.79	32
*2MS6	0.2443561	0.343	0.141	-0.035	0.06	97.51	10.18	69.89	21.16	5.9
2MK6	0.2445843	0.073	0.073	-0.009	0.07	126.12	53.22	90.50	81.29	1
2SM6	0.2471781	0.085	0.106	-0.016	0.06	82.52	37.64	131.05	86.34	0.64
MSK6	0.2474062	0.067	0.084	-0.013	0.04	93.39	40.08	88.89	87.21	0.63
3MK7	0.2833149	0.036	0.042	0.029	0.04	151.43	118.89	233.11	154.82	0.75
M8	0.3220456	0.039	0.035	-0.006	0.04	160.15	77.04	58.43	86.43	1.2

total var= 83.2025 pred var= 29.6657
percent total var predicted/var original= 35.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.2 m

Mooring Number: 7101

File Name: 7101adc-alh.nc

nobs = 3698, ngood = 3653, record length (days) = 154.08

start time: 23-Apr-2003 14:53:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.243, x trend= 0

var(x)= 46.8263 var(xp)= 16.1061 var(xres)= 30.686
percent var predicted/var original= 34.4 %

y0= -1.38, x trend= 0

var(y)= 58.1433 var(yp)= 16.3555 var(yres)= 41.8463
percent var predicted/var original= 28.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.983	2.169	0.428	1.57	113.81	60.37	298.61	72.72	0.84
MSF	0.0028219	0.196	1.427	0.103	1.40	34.90	99.32	264.24	238.64	0.019
ALP1	0.0343966	0.249	0.350	-0.089	0.34	79.58	125.95	224.37	117.47	0.51
2Q1	0.0357064	0.386	0.421	-0.167	0.42	147.79	86.62	22.90	83.03	0.84
Q1	0.0372185	0.151	0.370	0.072	0.34	20.15	115.08	114.75	174.31	0.17
O1	0.0387307	0.583	0.416	-0.016	0.42	33.21	48.23	285.07	49.84	2
NO1	0.0402686	0.114	0.287	0.037	0.27	65.02	143.11	47.27	184.23	0.16
*K1	0.0417807	1.265	0.385	-0.926	0.45	52.55	60.78	333.59	59.99	11
J1	0.0432929	0.405	0.467	-0.255	0.43	28.94	92.07	304.55	96.39	0.75
OO1	0.0448308	0.166	0.285	0.098	0.24	24.39	111.26	49.11	128.79	0.34
UPS1	0.0463430	0.419	0.323	-0.282	0.32	150.33	92.71	195.87	85.28	1.7
EPS2	0.0761773	0.633	0.651	-0.367	0.72	20.90	77.18	161.60	100.07	0.94
MU2	0.0776895	0.313	0.595	-0.305	0.53	46.66	127.19	228.87	164.84	0.28
*N2	0.0789992	2.164	0.701	0.491	0.74	39.74	23.47	166.39	23.21	9.5
*M2	0.0805114	7.193	0.750	2.213	0.84	44.87	7.55	204.43	6.77	92
*L2	0.0820236	1.281	0.850	-0.593	0.67	29.41	44.88	236.51	54.19	2.3
*S2	0.0833333	1.011	0.681	0.318	0.82	60.39	54.94	270.06	50.25	2.2
ETA2	0.0850736	0.394	0.559	-0.182	0.49	158.48	91.78	91.73	114.09	0.5
MO3	0.1192421	0.198	0.247	-0.015	0.21	2.92	77.53	313.15	87.91	0.64
M3	0.1207671	0.108	0.181	0.016	0.21	11.16	91.96	115.99	131.98	0.35
MK3	0.1222921	0.208	0.248	-0.052	0.20	162.53	73.06	291.00	87.72	0.71
SK3	0.1251141	0.189	0.228	0.041	0.21	57.79	97.70	246.28	106.73	0.69
*MN4	0.1595106	0.310	0.180	-0.081	0.24	112.94	63.14	64.12	41.79	3
*M4	0.1610228	0.589	0.199	-0.370	0.25	41.96	51.53	146.32	47.31	8.7
SN4	0.1623326	0.097	0.185	-0.058	0.17	161.68	102.33	351.51	167.65	0.27
MS4	0.1638447	0.168	0.190	-0.034	0.17	125.77	82.24	128.65	83.18	0.79
S4	0.1666667	0.202	0.198	0.089	0.18	14.14	54.35	168.60	88.84	1
2MK5	0.2028035	0.170	0.147	-0.107	0.14	143.18	76.55	358.63	77.44	1.3
2SK5	0.2084474	0.186	0.138	-0.072	0.14	45.96	57.20	37.66	53.08	1.8
*2MN6	0.2400221	0.549	0.147	-0.078	0.20	90.47	21.76	337.15	18.39	14
*M6	0.2415342	0.905	0.171	0.020	0.18	97.09	12.21	20.74	9.30	28
*2MS6	0.2443561	0.304	0.162	-0.009	0.19	88.83	34.40	70.58	36.36	3.5
2SM6	0.2471781	0.096	0.117	-0.045	0.15	102.35	115.19	163.73	111.84	0.67
3MK7	0.2833149	0.063	0.091	0.006	0.08	2.65	91.48	192.83	122.02	0.47
M8	0.3220456	0.036	0.075	0.005	0.06	166.00	93.91	46.72	192.94	0.23

total var= 104.9696 pred var= 32.4617
percent total var predicted/var original= 30.9 %

Tidal Analysis of Current at LT-B

ADCP Observations, 9.2 m

Mooring Number: 7191

File Name: 7191adc-alh.nc

nobs = 1730, ngood = 1727, record length (days) = 72.08

start time: 24-Sep-2003 19:52:30

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= -0.921, x trend= 0

var(x)= 34.5618 var(xp)= 5.002 var(xres)= 29.4514
percent var predicted/var original= 14.5 %

y0= 0.267, x trend= 0

var(y)= 86.9191 var(yp)= 29.003 var(yres)= 58.2765
percent var predicted/var original= 33.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.410	2.151	-0.035	2.14	124.91	68.27	37.34	76.84	1.3
MSF	0.0028219	1.014	1.727	-0.277	1.78	107.29	84.27	267.65	134.02	0.34
ALP1	0.0343966	0.683	0.513	-0.094	0.58	137.11	53.31	121.19	57.09	1.8
2Q1	0.0357064	0.174	0.434	0.041	0.38	138.85	101.69	60.42	162.49	0.16
Q1	0.0372185	0.560	0.544	0.158	0.49	119.71	61.00	314.09	73.18	1.1
O1	0.0387307	0.564	0.472	0.007	0.54	160.85	79.50	125.79	56.71	1.4
NO1	0.0402686	0.368	0.419	0.004	0.39	139.25	86.30	278.09	92.66	0.77
K1	0.0417807	0.499	0.439	0.201	0.60	177.28	95.52	58.37	67.47	1.3
J1	0.0432929	0.667	0.560	-0.087	0.52	129.43	49.48	340.09	51.01	1.4
OO1	0.0448308	0.222	0.338	-0.000	0.29	130.95	83.77	39.09	135.34	0.43
UPS1	0.0463430	0.388	0.475	-0.115	0.35	121.79	59.85	146.85	78.66	0.67
EPS2	0.0761773	0.234	0.371	-0.172	0.38	134.89	106.78	194.98	149.07	0.4
MU2	0.0776895	0.275	0.408	-0.202	0.34	59.53	99.39	79.98	123.47	0.45
*N2	0.0789992	2.362	0.568	0.066	0.47	58.32	10.72	191.41	14.94	17
*M2	0.0805114	7.619	0.606	1.120	0.45	69.77	3.29	215.37	4.51	1.6e+002
L2	0.0820236	0.692	0.510	-0.077	0.34	112.22	35.80	218.78	45.23	1.8
*S2	0.0833333	1.242	0.620	0.032	0.37	71.16	18.48	241.32	29.50	4
ETA2	0.0850736	0.226	0.381	-0.114	0.28	77.47	85.47	84.60	140.90	0.35
MO3	0.1192421	0.291	0.210	-0.093	0.20	125.00	50.31	324.14	48.06	1.9
M3	0.1207671	0.081	0.165	-0.057	0.19	36.88	112.43	216.27	162.32	0.24
MK3	0.1222921	0.221	0.207	0.040	0.18	105.97	64.29	346.36	80.18	1.1
SK3	0.1251141	0.145	0.171	0.031	0.19	169.55	115.56	80.74	114.19	0.72
MN4	0.1595106	0.232	0.195	0.037	0.13	100.62	44.97	139.21	49.06	1.4
M4	0.1610228	0.167	0.162	0.144	0.16	78.94	113.35	110.29	130.93	1.1
SN4	0.1623326	0.119	0.119	-0.060	0.13	41.32	87.77	136.82	86.80	1
MS4	0.1638447	0.185	0.154	-0.021	0.16	137.27	61.69	170.03	56.13	1.4
S4	0.1666667	0.159	0.129	0.058	0.13	10.41	76.43	130.44	72.03	1.5
2MK5	0.2028035	0.082	0.085	-0.038	0.10	3.27	131.31	7.05	94.85	0.92
2SK5	0.2084474	0.035	0.085	0.009	0.07	86.91	75.51	68.22	158.33	0.17
*2MN6	0.2400221	0.683	0.213	0.033	0.12	100.85	8.52	358.46	15.09	10
*M6	0.2415342	0.789	0.172	-0.046	0.12	110.62	9.10	14.35	14.71	21
*2MS6	0.2443561	0.311	0.186	0.027	0.11	108.21	23.08	48.79	35.54	2.8
2SM6	0.2471781	0.133	0.149	-0.001	0.08	99.63	42.80	124.19	73.20	0.79
3MK7	0.2833149	0.070	0.085	-0.001	0.09	44.12	87.93	334.59	97.97	0.69
M8	0.3220456	0.079	0.076	-0.013	0.07	89.43	68.04	95.12	76.78	1.1

total var= 121.4809 pred var= 34.005
percent total var predicted/var original= 28.0 %