

Tidal Analysis of Current at LT-B

ADCP Observations, 5.2 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= 3.4, x trend= 0

var(x)= 26.823 var(xp)= 6.2352 var(xres)= 20.5592
percent var predicted/var original= 23.2 %

y0= -6.5, x trend= 0

var(y)= 88.5027 var(yp)= 19.5354 var(yres)= 68.8934
percent var predicted/var original= 22.1 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.167	2.118	0.196	1.27	110.93	55.95	182.50	132.07	0.3
MSF	0.0028219	1.160	1.756	-0.122	1.47	142.65	75.10	155.74	124.51	0.44
ALP1	0.0343966	0.532	0.548	-0.131	0.46	118.60	55.38	263.93	86.16	0.94
2Q1	0.0357064	0.353	0.568	0.219	0.39	106.42	74.63	243.50	145.04	0.39
Q1	0.0372185	0.485	0.571	-0.087	0.45	122.85	59.85	258.48	88.63	0.72
O1	0.0387307	0.288	0.482	0.161	0.45	131.75	80.37	327.23	154.97	0.36
NO1	0.0402686	0.224	0.356	-0.017	0.30	132.36	92.66	226.42	122.25	0.4
K1	0.0417807	0.632	0.653	-0.085	0.34	78.59	38.81	4.18	69.07	0.94
J1	0.0432929	0.158	0.449	0.118	0.41	176.92	147.92	298.86	160.31	0.12
OO1	0.0448308	0.538	0.746	-0.210	0.51	97.45	60.95	157.25	126.44	0.52
UPS1	0.0463430	0.408	0.784	0.094	0.61	38.99	99.61	347.29	127.92	0.27
EPS2	0.0761773	0.098	0.220	0.007	0.23	132.75	109.72	2.89	179.00	0.2
MU2	0.0776895	0.244	0.234	-0.061	0.25	108.45	64.95	167.80	99.20	1.1
*N2	0.0789992	1.761	0.321	-0.005	0.29	70.36	9.47	174.07	12.53	30
*M2	0.0805114	6.581	0.366	1.170	0.32	61.11	2.61	207.86	3.33	3.2e+002
L2	0.0820236	0.389	0.321	-0.155	0.33	53.15	70.94	274.32	72.41	1.5
*S2	0.0833333	0.953	0.318	0.279	0.33	53.56	23.06	246.14	22.20	9
ETA2	0.0850736	0.511	0.469	-0.125	0.42	106.14	55.88	293.17	75.89	1.2
MO3	0.1192421	0.137	0.162	0.068	0.14	32.13	110.88	311.60	107.66	0.72
M3	0.1207671	0.070	0.116	-0.009	0.11	68.45	107.61	101.31	148.59	0.36
MK3	0.1222921	0.128	0.141	-0.089	0.13	45.79	100.52	336.11	103.53	0.83
SK3	0.1251141	0.117	0.140	-0.069	0.14	72.26	98.45	147.58	115.79	0.69
MN4	0.1595106	0.089	0.096	0.032	0.10	91.50	88.01	133.06	98.11	0.86
*M4	0.1610228	0.254	0.138	-0.007	0.12	88.72	27.36	98.96	25.65	3.4
SN4	0.1623326	0.038	0.086	0.006	0.09	119.66	127.24	144.09	163.99	0.2
MS4	0.1638447	0.145	0.105	0.073	0.11	141.31	66.37	219.77	65.23	1.9
S4	0.1666667	0.130	0.112	0.001	0.11	134.25	67.25	47.44	67.78	1.3
2MK5	0.2028035	0.040	0.085	-0.035	0.07	95.42	124.04	178.56	166.80	0.23
2SK5	0.2084474	0.063	0.092	0.016	0.07	13.50	106.32	51.14	101.96	0.48
*2MN6	0.2400221	0.370	0.133	-0.038	0.09	117.51	14.73	323.03	21.45	7.7
*M6	0.2415342	0.791	0.161	0.004	0.07	98.70	4.45	6.10	11.74	24
2MS6	0.2443561	0.234	0.178	-0.002	0.07	90.48	15.78	56.42	38.91	1.7
2SM6	0.2471781	0.082	0.131	-0.012	0.07	98.24	45.12	142.11	135.36	0.4
3MK7	0.2833149	0.028	0.054	0.003	0.06	68.32	91.30	15.92	174.30	0.27
M8	0.3220456	0.027	0.046	-0.005	0.04	139.60	113.13	130.68	144.40	0.35

total var= 115.3258 pred var= 25.7705
percent total var predicted/var original= 22.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.9 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= 0.483, x trend= 0

var(x)= 49.8276 var(xp)= 6.513 var(xres)= 43.1578
percent var predicted/var original= 13.1 %

y0= -1.57, x trend= 0

var(y)= 165.0055 var(yp)= 39.4138 var(yres)= 124.8799
percent var predicted/var original= 23.9 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	3.375	4.589	-0.061	3.54	115.99	52.82	286.95	97.25	0.54
MSF	0.0028219	3.687	4.091	1.289	3.11	104.33	56.03	112.96	105.23	0.81
ALP1	0.0343966	0.744	0.967	-0.465	0.88	98.87	94.33	31.39	121.51	0.59
2Q1	0.0357064	0.397	0.890	-0.000	0.76	94.44	93.38	140.67	166.57	0.2
Q1	0.0372185	0.590	0.947	-0.287	0.98	140.83	105.94	220.09	124.72	0.39
O1	0.0387307	0.632	0.992	-0.291	0.74	107.10	89.54	298.03	140.09	0.41
NO1	0.0402686	0.472	0.712	0.006	0.59	69.21	77.84	130.13	117.92	0.44
K1	0.0417807	0.925	0.915	-0.336	0.86	67.84	81.04	138.58	83.59	1
J1	0.0432929	1.015	0.848	-0.601	1.20	161.92	105.90	27.22	94.23	1.4
OO1	0.0448308	1.978	1.496	-0.875	1.27	70.80	56.89	261.96	69.16	1.7
UPS1	0.0463430	0.410	1.046	0.141	1.02	62.83	105.39	295.65	189.29	0.15
EPS2	0.0761773	0.588	0.909	-0.272	0.91	80.55	125.46	223.36	121.50	0.42
MU2	0.0776895	1.313	1.245	-0.054	1.04	68.35	59.76	180.09	68.45	1.1
*N2	0.0789992	2.690	1.185	-0.260	1.20	70.21	28.70	169.18	32.76	5.2
*M2	0.0805114	8.751	1.390	0.619	1.12	67.95	7.62	218.91	8.16	40
L2	0.0820236	0.798	1.266	-0.473	1.08	9.21	113.12	317.95	122.89	0.4
S2	0.0833333	1.288	1.143	0.327	1.13	43.24	60.98	235.25	70.92	1.3
ETA2	0.0850736	0.240	1.376	0.065	1.27	80.47	120.20	176.48	206.14	0.03
MO3	0.1192421	0.209	0.292	-0.047	0.34	22.80	123.90	57.33	123.65	0.51
M3	0.1207671	0.231	0.267	-0.030	0.28	40.17	105.00	287.58	92.60	0.75
MK3	0.1222921	0.194	0.310	-0.029	0.31	62.06	94.90	237.71	143.56	0.39
SK3	0.1251141	0.351	0.369	-0.113	0.36	135.54	76.81	57.12	85.54	0.91
MN4	0.1595106	0.174	0.217	-0.114	0.25	154.22	126.32	112.25	167.16	0.64
*M4	0.1610228	0.439	0.272	0.040	0.22	111.34	37.53	133.89	42.32	2.6
SN4	0.1623326	0.282	0.286	-0.064	0.27	48.56	64.93	254.59	72.65	0.97
MS4	0.1638447	0.334	0.303	-0.048	0.24	101.62	56.03	190.56	56.99	1.2
S4	0.1666667	0.150	0.239	-0.046	0.20	47.38	108.94	298.58	129.67	0.4
2MK5	0.2028035	0.123	0.158	-0.050	0.16	30.40	93.08	214.16	104.14	0.61
2SK5	0.2084474	0.203	0.186	0.019	0.18	79.53	67.95	210.56	61.91	1.2
*2MN6	0.2400221	0.531	0.165	0.116	0.13	89.91	16.52	321.77	17.27	10
*M6	0.2415342	0.704	0.148	0.117	0.14	98.39	11.92	10.05	12.33	23
*2MS6	0.2443561	0.309	0.158	-0.014	0.14	107.72	30.94	65.88	30.36	3.8
2SM6	0.2471781	0.113	0.141	0.036	0.14	39.76	91.54	40.63	81.76	0.64
3MK7	0.2833149	0.027	0.106	0.003	0.10	39.72	132.30	111.16	195.53	0.067
M8	0.3220456	0.120	0.086	-0.013	0.09	81.32	45.15	138.20	48.35	2

total var= 214.8332 pred var= 45.9267
percent total var predicted/var original= 21.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.7 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= -0.731, x trend= 0

var(x)= 72.0704 var(xp)= 34.6155 var(xres)= 37.578
percent var predicted/var original= 48.0 %

y0= -0.233, x trend= 0

var(y)= 118.8082 var(yp)= 61.9902 var(yres)= 56.9415
percent var predicted/var original= 52.2 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	4.750	3.181	0.583	2.50	112.09	33.99	201.87	44.71	2.2
MSF	0.0028219	1.260	2.358	0.457	2.07	81.07	81.30	217.95	161.48	0.29
ALP1	0.0343966	0.668	0.687	-0.167	0.74	73.70	77.77	24.22	86.12	0.94
2Q1	0.0357064	0.668	0.774	-0.254	0.63	134.81	85.32	339.21	90.32	0.75
Q1	0.0372185	0.137	0.636	-0.026	0.58	157.40	127.29	294.74	263.79	0.046
O1	0.0387307	0.433	0.648	-0.208	0.61	46.00	108.35	191.16	134.29	0.45
NO1	0.0402686	0.257	0.474	-0.135	0.41	6.77	118.22	241.14	144.64	0.29
K1	0.0417807	0.864	0.732	0.130	0.73	104.40	55.03	352.98	54.25	1.4
J1	0.0432929	0.911	0.728	-0.490	0.71	157.18	81.18	182.55	75.37	1.6
OO1	0.0448308	1.026	0.938	-0.736	0.94	131.79	116.05	111.06	108.28	1.2
UPS1	0.0463430	1.206	1.099	-0.520	1.01	61.72	77.74	319.49	69.63	1.2
EPS2	0.0761773	0.830	1.004	-0.350	0.97	16.97	96.15	90.37	102.52	0.68
MU2	0.0776895	0.507	0.877	-0.018	0.84	43.00	128.65	43.43	149.65	0.33
*N2	0.0789992	2.458	1.228	0.017	1.18	50.30	25.78	181.42	28.95	4
*M2	0.0805114	11.853	1.145	-1.520	1.13	52.99	5.56	216.64	6.40	1.1e+002
*L2	0.0820236	1.893	1.150	-0.659	1.29	27.44	51.82	227.69	51.65	2.7
*S2	0.0833333	2.263	1.193	-0.686	1.17	25.68	38.84	217.58	29.90	3.6
ETA2	0.0850736	0.540	1.291	-0.155	1.04	50.48	127.23	294.98	150.87	0.18
MO3	0.1192421	0.380	0.410	0.002	0.43	160.70	95.00	131.75	95.57	0.86
M3	0.1207671	0.277	0.312	-0.114	0.35	152.43	100.32	255.73	106.73	0.79
MK3	0.1222921	0.313	0.422	-0.254	0.33	59.95	115.15	196.35	131.16	0.55
SK3	0.1251141	0.386	0.380	-0.046	0.35	69.89	73.55	174.60	92.76	1
MN4	0.1595106	0.428	0.373	-0.144	0.37	103.23	77.64	105.32	69.58	1.3
M4	0.1610228	0.488	0.359	-0.283	0.34	151.92	75.84	94.36	79.37	1.8
*SN4	0.1623326	0.563	0.386	-0.345	0.39	165.85	77.32	97.47	90.25	2.1
MS4	0.1638447	0.176	0.277	0.001	0.33	50.55	115.06	212.32	156.97	0.41
S4	0.1666667	0.214	0.351	-0.095	0.28	55.84	114.48	168.09	113.28	0.37
2MK5	0.2028035	0.253	0.192	-0.194	0.20	110.29	105.10	172.09	112.11	1.7
2SK5	0.2084474	0.213	0.220	0.040	0.18	69.06	72.43	321.83	70.82	0.94
*2MN6	0.2400221	0.409	0.254	0.061	0.22	90.04	32.59	344.18	36.44	2.6
*M6	0.2415342	0.806	0.227	-0.002	0.22	101.62	14.24	20.28	15.92	13
2MS6	0.2443561	0.291	0.225	-0.102	0.21	92.43	57.53	84.23	66.15	1.7
2SM6	0.2471781	0.254	0.223	-0.049	0.24	93.50	58.81	16.58	67.69	1.3
3MK7	0.2833149	0.193	0.189	0.027	0.15	174.65	62.20	134.52	65.39	1
M8	0.3220456	0.106	0.077	-0.068	0.08	80.16	95.34	151.52	89.41	1.9

total var= 190.8786 pred var= 96.6058
percent total var predicted/var original= 50.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.8 m

Mooring Number: 5422

File Name: 5422adc-alh.nc

nobs = 3192, ngood = 3188, 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= 1.07, x trend= 0

var(x)= 29.3856 var(xp)= 4.929 var(xres)= 24.5239
percent var predicted/var original= 16.8 %

y0= -2.12, x trend= 0

var(y)= 79.5868 var(yp)= 26.3024 var(yres)= 53.2976
percent var predicted/var original= 33.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	2.630	1.753	0.099	1.63	133.48	40.97	337.14	38.01	2.3
MSF	0.0028219	0.790	1.191	0.045	1.21	154.50	123.65	137.08	134.41	0.44
*ALP1	0.0343966	0.911	0.595	-0.093	0.61	134.53	39.74	166.01	41.29	2.3
2Q1	0.0357064	0.262	0.454	0.068	0.46	116.89	91.70	167.23	126.83	0.33
Q1	0.0372185	0.349	0.501	0.140	0.46	73.59	92.63	120.58	116.89	0.48
O1	0.0387307	0.753	0.575	0.016	0.53	128.17	48.56	331.10	59.01	1.7
NO1	0.0402686	0.326	0.456	-0.050	0.37	104.42	79.64	203.19	102.54	0.51
*K1	0.0417807	0.710	0.461	0.051	0.50	114.35	44.54	28.91	49.60	2.4
J1	0.0432929	0.373	0.478	-0.085	0.36	87.59	77.21	257.71	94.82	0.61
OO1	0.0448308	0.400	0.590	0.176	0.54	134.61	98.11	88.31	123.10	0.46
UPS1	0.0463430	0.522	0.674	-0.235	0.64	129.17	106.22	228.30	124.89	0.6
EPS2	0.0761773	0.238	0.196	-0.173	0.21	129.61	89.33	191.95	103.41	1.5
MU2	0.0776895	0.186	0.227	-0.028	0.18	31.79	91.34	227.78	87.10	0.67
*N2	0.0789992	1.390	0.261	0.493	0.22	84.80	12.12	181.88	16.72	28
*M2	0.0805114	6.671	0.294	1.353	0.19	74.20	2.05	213.23	2.54	5.1e+002
*L2	0.0820236	0.369	0.210	0.239	0.23	157.87	73.83	43.39	72.59	3.1
*S2	0.0833333	0.788	0.243	0.450	0.23	70.02	29.62	246.72	35.28	11
ETA2	0.0850736	0.298	0.268	-0.139	0.29	122.87	84.34	19.40	95.96	1.2
MO3	0.1192421	0.129	0.110	-0.039	0.11	110.75	72.59	359.05	72.71	1.4
M3	0.1207671	0.097	0.108	-0.036	0.09	92.29	89.80	301.70	81.40	0.81
MK3	0.1222921	0.117	0.126	-0.093	0.11	152.91	106.81	299.80	104.86	0.87
SK3	0.1251141	0.070	0.111	-0.005	0.10	36.51	94.70	48.44	129.32	0.39
MN4	0.1595106	0.047	0.078	-0.007	0.08	112.62	102.03	93.65	139.26	0.36
*M4	0.1610228	0.187	0.107	-0.021	0.10	86.27	33.68	107.80	42.47	3.1
SN4	0.1623326	0.107	0.091	0.038	0.10	50.30	72.83	130.92	83.89	1.4
MS4	0.1638447	0.114	0.092	0.079	0.08	57.70	97.67	142.80	100.75	1.6
S4	0.1666667	0.148	0.115	-0.018	0.09	125.39	56.33	310.88	53.98	1.6
2MK5	0.2028035	0.086	0.070	0.012	0.07	120.22	51.42	243.24	54.49	1.5
2SK5	0.2084474	0.060	0.058	0.006	0.06	97.30	79.19	113.22	84.28	1.1
*2MN6	0.2400221	0.387	0.110	0.035	0.07	106.67	10.28	319.36	18.56	12
*M6	0.2415342	0.742	0.127	0.007	0.08	109.98	6.34	15.52	8.77	34
*2MS6	0.2443561	0.304	0.110	0.007	0.07	103.11	15.43	67.79	24.96	7.6
2SM6	0.2471781	0.103	0.090	0.001	0.10	142.39	60.45	100.82	63.27	1.3
3MK7	0.2833149	0.023	0.044	0.009	0.04	130.83	116.88	257.57	131.80	0.27
M8	0.3220456	0.032	0.038	-0.010	0.03	55.11	96.10	142.88	96.69	0.71

total var= 108.9723 pred var= 31.2314
percent total var predicted/var original= 28.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.0 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= 1.86, x trend= 0

var(x)= 45.3715 var(xp)= 7.2911 var(xres)= 38.1809
percent var predicted/var original= 16.1 %

y0= -5.43, x trend= 0

var(y)= 145.9251 var(yp)= 27.1818 var(yres)= 118.8193
percent var predicted/var original= 18.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	5.052	4.024	-0.698	2.89	120.90	34.71	54.77	65.05	1.6
MSF	0.0028219	3.592	3.990	-0.831	2.53	116.91	42.55	111.44	76.67	0.81
ALP1	0.0343966	0.311	0.597	0.019	0.57	135.50	110.07	248.59	162.00	0.27
2Q1	0.0357064	0.686	0.689	-0.355	0.65	128.95	84.37	188.74	85.80	0.99
Q1	0.0372185	0.852	0.667	-0.623	0.72	20.61	100.19	81.35	103.92	1.6
O1	0.0387307	0.546	0.680	-0.050	0.59	18.66	96.36	299.09	80.27	0.65
NO1	0.0402686	0.229	0.545	-0.115	0.52	59.44	112.03	256.40	155.71	0.18
*K1	0.0417807	1.054	0.665	-0.529	0.72	100.82	61.29	107.66	74.66	2.5
J1	0.0432929	0.517	0.596	-0.130	0.67	10.77	122.32	103.13	90.52	0.75
OO1	0.0448308	0.983	1.004	-0.664	1.00	159.58	106.00	48.24	97.36	0.96
UPS1	0.0463430	0.790	0.962	-0.444	0.99	92.45	100.79	172.52	104.91	0.67
EPS2	0.0761773	0.196	0.518	0.042	0.45	115.91	114.04	4.11	165.46	0.14
MU2	0.0776895	0.635	0.637	-0.228	0.54	77.32	66.97	123.73	81.82	0.99
*N2	0.0789992	2.189	0.714	-0.516	0.61	66.60	20.23	181.46	21.53	9.4
*M2	0.0805114	7.437	0.755	0.302	0.57	62.29	4.43	211.54	5.83	97
L2	0.0820236	0.520	0.454	0.018	0.63	11.37	107.25	191.13	84.38	1.3
*S2	0.0833333	1.244	0.710	0.386	0.58	88.17	32.93	269.90	48.41	3.1
ETA2	0.0850736	0.480	0.731	0.177	0.62	109.33	94.31	165.24	114.09	0.43
MO3	0.1192421	0.282	0.285	-0.012	0.27	133.92	72.38	325.26	81.37	0.98
M3	0.1207671	0.180	0.217	0.027	0.23	166.33	129.76	346.86	103.45	0.69
MK3	0.1222921	0.230	0.229	0.090	0.23	151.84	94.07	205.52	107.11	1
SK3	0.1251141	0.188	0.254	0.019	0.28	171.78	135.87	209.40	122.20	0.55
MN4	0.1595106	0.214	0.195	-0.088	0.16	117.25	78.03	86.74	81.21	1.2
M4	0.1610228	0.251	0.194	0.077	0.18	105.82	55.72	125.69	61.14	1.7
SN4	0.1623326	0.178	0.174	-0.049	0.19	112.39	86.68	327.03	80.95	1
MS4	0.1638447	0.166	0.178	0.020	0.17	60.46	77.94	55.94	91.95	0.87
S4	0.1666667	0.184	0.177	0.091	0.18	123.21	87.16	299.62	101.29	1.1
2MK5	0.2028035	0.083	0.123	0.029	0.12	91.91	95.25	155.83	135.29	0.46
2SK5	0.2084474	0.109	0.145	0.030	0.14	60.06	92.12	147.60	99.96	0.56
*2MN6	0.2400221	0.295	0.194	-0.017	0.10	94.99	20.43	0.59	38.74	2.3
*M6	0.2415342	0.683	0.181	0.010	0.10	95.69	9.24	9.83	14.99	14
*2MS6	0.2443561	0.324	0.190	-0.097	0.10	96.30	21.81	64.41	40.73	2.9
2SM6	0.2471781	0.101	0.134	-0.081	0.12	92.05	79.20	86.32	153.11	0.57
3MK7	0.2833149	0.091	0.085	-0.033	0.09	136.20	87.57	226.22	92.99	1.1
*M8	0.3220456	0.113	0.075	0.016	0.07	133.08	41.32	83.67	36.38	2.3

total var= 191.2966 pred var= 34.4728
percent total var predicted/var original= 18.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.0 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= -1.29, x trend= 0

var(x)= 48.9294 var(xp)= 16.697 var(xres)= 32.2211
percent var predicted/var original= 34.1 %

y0= 2.14, x trend= 0

var(y)= 122.6706 var(yp)= 57.0905 var(yres)= 65.6654
percent var predicted/var original= 46.5 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	3.962	2.563	-0.577	1.20	92.76	16.50	97.24	34.49	2.4
MSF	0.0028219	0.835	1.513	-0.088	1.05	121.81	55.79	71.30	163.73	0.3
ALP1	0.0343966	0.579	0.623	0.030	0.60	127.29	87.78	41.83	79.50	0.87
2Q1	0.0357064	0.347	0.535	0.135	0.53	65.73	92.83	27.17	137.89	0.42
Q1	0.0372185	0.627	0.653	-0.452	0.55	106.83	88.87	230.07	105.30	0.92
O1	0.0387307	0.271	0.518	0.165	0.55	17.93	155.57	283.49	150.24	0.27
NO1	0.0402686	0.519	0.682	0.061	0.63	92.60	83.34	128.65	129.37	0.58
*K1	0.0417807	1.266	0.814	-0.187	0.62	112.01	29.49	11.76	37.06	2.4
J1	0.0432929	0.476	0.604	-0.059	0.51	95.12	72.04	235.54	99.64	0.62
OO1	0.0448308	0.468	0.763	0.161	0.83	111.40	103.55	53.34	118.91	0.38
UPS1	0.0463430	0.491	0.751	0.124	0.69	75.34	88.19	264.07	122.12	0.43
EPS2	0.0761773	0.154	0.622	-0.010	0.50	147.68	102.06	178.89	222.43	0.062
MU2	0.0776895	0.814	0.647	-0.296	0.67	64.98	77.49	272.19	73.43	1.6
*N2	0.0789992	3.203	0.827	-0.486	0.88	65.76	18.57	184.97	14.06	15
*M2	0.0805114	10.460	0.838	-0.949	0.84	59.73	5.29	228.91	4.54	1.6e+002
L2	0.0820236	0.328	0.547	0.144	0.51	25.45	98.88	215.19	155.82	0.36
S2	0.0833333	1.010	0.820	0.553	0.72	58.99	89.95	263.86	72.39	1.5
ETA2	0.0850736	0.830	0.817	-0.345	0.78	61.31	95.84	104.13	86.09	1
MO3	0.1192421	0.192	0.302	-0.136	0.28	106.71	111.88	271.30	123.28	0.41
M3	0.1207671	0.217	0.274	0.058	0.26	170.82	96.92	265.12	89.68	0.62
MK3	0.1222921	0.398	0.314	-0.087	0.33	130.53	69.53	236.09	65.66	1.6
SK3	0.1251141	0.221	0.301	-0.187	0.33	9.30	125.76	107.23	116.54	0.54
MN4	0.1595106	0.435	0.323	0.034	0.28	136.44	41.76	118.18	48.73	1.8
*M4	0.1610228	0.694	0.313	-0.051	0.27	145.05	28.48	171.20	26.51	4.9
SN4	0.1623326	0.249	0.271	-0.161	0.26	7.44	89.17	143.74	120.73	0.84
MS4	0.1638447	0.130	0.228	-0.062	0.24	141.14	107.15	242.32	141.29	0.32
S4	0.1666667	0.132	0.223	-0.022	0.23	3.62	89.94	194.97	144.29	0.35
2MK5	0.2028035	0.150	0.203	-0.041	0.21	174.93	108.19	267.19	109.39	0.55
2SK5	0.2084474	0.168	0.189	-0.110	0.20	40.09	123.41	135.27	124.65	0.8
*2MN6	0.2400221	0.370	0.232	-0.067	0.19	112.90	30.19	334.35	34.08	2.5
*M6	0.2415342	0.751	0.223	0.002	0.19	95.73	14.19	27.82	15.12	11
2MS6	0.2443561	0.242	0.201	-0.003	0.16	70.45	49.63	50.63	57.01	1.4
2SM6	0.2471781	0.159	0.194	-0.063	0.18	56.21	82.09	127.43	86.69	0.67
3MK7	0.2833149	0.040	0.129	0.005	0.11	60.73	130.47	145.72	186.43	0.098
M8	0.3220456	0.111	0.096	-0.008	0.10	169.20	52.91	154.80	51.22	1.3

total var= 171.6001 pred var= 73.7876
percent total var predicted/var original= 43.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.1 m

Mooring Number: 5931

File Name: 5931adc-alh.nc

nobs = 4264, ngood = 4253, 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= 1.98, x trend= 0

var(x)= 29.6763 var(xp)= 5.0816 var(xres)= 24.6086
percent var predicted/var original= 17.1 %

y0= -2.96, x trend= 0

var(y)= 85.506 var(yp)= 21.431 var(yres)= 64.0554
percent var predicted/var original= 25.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.837	1.804	0.253	1.46	129.23	88.39	352.20	179.49	0.22
MSF	0.0028219	1.123	1.862	-0.160	1.71	118.68	78.97	120.50	137.21	0.36
ALP1	0.0343966	0.166	0.275	0.041	0.27	155.13	132.93	210.74	131.69	0.36
2Q1	0.0357064	0.187	0.296	-0.058	0.29	42.82	111.56	286.92	126.41	0.4
Q1	0.0372185	0.384	0.407	-0.193	0.31	123.89	78.35	276.88	94.70	0.89
O1	0.0387307	0.472	0.366	0.243	0.37	128.88	74.17	22.63	80.00	1.7
NO1	0.0402686	0.364	0.506	0.213	0.48	82.07	99.60	285.93	136.89	0.52
*K1	0.0417807	0.702	0.395	0.373	0.38	113.92	58.31	7.11	60.56	3.2
J1	0.0432929	0.283	0.324	0.096	0.30	128.52	86.10	176.36	89.49	0.76
OO1	0.0448308	0.333	0.476	-0.065	0.44	146.22	107.76	309.86	150.37	0.49
UPS1	0.0463430	0.240	0.397	-0.150	0.44	21.83	116.94	145.40	156.09	0.37
EPS2	0.0761773	0.095	0.195	-0.072	0.17	151.63	135.42	252.61	180.16	0.24
*MU2	0.0776895	0.447	0.267	0.020	0.23	112.97	27.86	177.09	36.19	2.8
*N2	0.0789992	1.598	0.270	0.386	0.23	72.59	11.17	184.68	12.60	35
*M2	0.0805114	6.560	0.291	1.303	0.24	65.89	2.05	212.44	2.51	5.1e+002
*L2	0.0820236	0.268	0.181	0.132	0.21	39.55	72.34	236.19	71.32	2.2
*S2	0.0833333	0.865	0.255	0.534	0.21	54.74	34.06	239.89	35.55	11
ETA2	0.0850736	0.215	0.216	-0.066	0.25	106.55	63.33	174.18	93.91	0.99
MO3	0.1192421	0.089	0.102	-0.078	0.11	65.14	128.01	299.32	151.05	0.76
M3	0.1207671	0.041	0.087	0.030	0.08	72.91	107.17	174.62	171.61	0.22
MK3	0.1222921	0.093	0.095	0.000	0.10	53.49	81.59	224.58	79.43	0.96
SK3	0.1251141	0.073	0.090	0.007	0.11	11.64	111.34	124.36	109.12	0.67
MN4	0.1595106	0.095	0.091	0.032	0.09	71.62	56.89	88.00	73.41	1.1
*M4	0.1610228	0.206	0.119	0.078	0.09	63.91	30.65	98.54	38.69	3
SN4	0.1623326	0.049	0.080	0.003	0.08	106.70	78.96	182.02	147.29	0.37
MS4	0.1638447	0.095	0.083	0.043	0.09	47.69	81.14	101.10	81.56	1.3
S4	0.1666667	0.026	0.068	-0.003	0.06	138.68	110.32	256.41	229.65	0.15
2MK5	0.2028035	0.041	0.058	0.026	0.06	171.44	124.90	10.55	135.16	0.5
2SK5	0.2084474	0.031	0.066	0.020	0.06	139.80	125.83	130.23	154.09	0.22
*2MN6	0.2400221	0.403	0.111	0.041	0.07	97.17	13.07	331.71	16.79	13
*M6	0.2415342	0.758	0.115	0.038	0.08	99.37	6.10	11.50	8.93	44
*2MS6	0.2443561	0.348	0.116	0.045	0.09	100.60	15.91	60.90	22.18	9
2SM6	0.2471781	0.089	0.102	-0.007	0.08	98.90	49.57	50.50	77.46	0.77
3MK7	0.2833149	0.032	0.056	0.008	0.05	18.97	125.70	357.99	134.00	0.32
M8	0.3220456	0.037	0.040	-0.012	0.04	5.43	99.29	282.23	99.66	0.88

total var= 115.1823 pred var= 26.5126
percent total var predicted/var original= 23.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.9 m

Mooring Number: 6131

File Name: 6131adc-alh.nc

nobs = 2013, ngood = 2009, 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= 1.59, x trend= 0

var(x)= 25.9032 var(xp)= 8.8864 var(xres)= 17.0976
percent var predicted/var original= 34.3 %

y0= -4.53, x trend= 0

var(y)= 92.362 var(yp)= 21.6188 var(yres)= 70.6011
percent var predicted/var original= 23.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	3.442	3.842	0.146	2.00	105.42	30.93	19.05	86.68	0.8
MSF	0.0028219	1.546	3.035	0.318	1.89	109.03	42.28	116.63	153.48	0.26
ALP1	0.0343966	0.350	0.659	0.290	0.62	159.32	141.17	83.01	147.16	0.28
2Q1	0.0357064	0.272	0.644	-0.058	0.54	49.03	104.85	313.32	163.14	0.18
Q1	0.0372185	0.335	0.685	-0.091	0.54	91.48	81.94	300.98	123.32	0.24
O1	0.0387307	0.535	0.599	-0.039	0.67	11.24	114.58	216.39	86.72	0.8
NO1	0.0402686	1.252	1.328	-0.985	1.36	13.53	136.68	204.14	120.66	0.89
K1	0.0417807	0.521	0.703	-0.263	0.53	73.83	83.74	58.02	137.51	0.55
J1	0.0432929	0.144	0.496	-0.027	0.53	48.83	88.52	55.40	232.86	0.085
OO1	0.0448308	0.743	1.087	0.116	0.88	76.70	77.19	123.07	135.28	0.47
UPS1	0.0463430	0.322	0.692	-0.008	0.77	1.21	155.31	335.39	164.38	0.22
EPS2	0.0761773	0.317	0.367	-0.098	0.33	88.46	93.78	209.28	104.52	0.74
MU2	0.0776895	0.391	0.421	-0.029	0.44	121.01	75.96	135.00	80.84	0.86
*N2	0.0789992	0.804	0.425	0.546	0.41	161.79	68.01	287.53	72.58	3.6
*M2	0.0805114	7.195	0.492	1.450	0.49	58.91	4.58	209.94	4.58	2.1e+002
L2	0.0820236	0.376	0.320	-0.029	0.36	156.62	70.01	70.35	69.56	1.4
*S2	0.0833333	1.296	0.522	0.424	0.47	51.37	27.29	243.34	29.53	6.2
ETA2	0.0850736	0.418	0.466	-0.167	0.47	119.15	86.75	265.10	91.48	0.8
MO3	0.1192421	0.071	0.189	0.019	0.16	90.44	86.15	122.43	165.40	0.14
M3	0.1207671	0.053	0.209	0.034	0.16	150.35	100.96	340.86	198.65	0.065
MK3	0.1222921	0.095	0.224	0.007	0.19	169.26	139.32	7.15	236.01	0.18
SK3	0.1251141	0.138	0.235	-0.025	0.21	127.32	81.92	33.97	128.87	0.35
MN4	0.1595106	0.122	0.155	0.069	0.13	72.32	89.59	96.67	118.22	0.62
*M4	0.1610228	0.294	0.180	-0.003	0.14	69.38	35.33	107.48	40.57	2.7
SN4	0.1623326	0.173	0.159	-0.020	0.13	78.17	63.82	194.24	75.17	1.2
MS4	0.1638447	0.179	0.176	0.043	0.13	75.03	57.01	152.42	65.52	1
S4	0.1666667	0.149	0.184	-0.002	0.13	88.95	64.00	332.45	81.71	0.66
2MK5	0.2028035	0.112	0.131	0.050	0.12	121.84	71.89	296.57	98.61	0.74
2SK5	0.2084474	0.127	0.111	-0.036	0.12	118.35	64.35	131.34	90.11	1.3
*2MN6	0.2400221	0.287	0.186	-0.013	0.09	97.47	20.78	324.33	38.71	2.4
*M6	0.2415342	0.798	0.199	0.030	0.09	94.04	6.39	13.28	14.37	16
*2MS6	0.2443561	0.287	0.192	-0.038	0.10	92.01	17.65	69.32	39.51	2.2
2SM6	0.2471781	0.106	0.118	0.035	0.11	50.21	63.42	355.28	106.64	0.81
3MK7	0.2833149	0.051	0.071	0.001	0.07	119.62	91.45	76.35	116.96	0.51
M8	0.3220456	0.058	0.057	0.008	0.06	54.30	79.53	124.85	83.20	1.1

total var= 118.2652 pred var= 30.5052
percent total var predicted/var original= 25.8 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.9 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= 0.996, x trend= 0

var(x)= 29.7779 var(xp)= 9.261 var(xres)= 20.8177

percent var predicted/var original= 31.1 %

y0= -3.71, x trend= 0

var(y)= 101.6533 var(yp)= 49.3421 var(yres)= 51.3719

percent var predicted/var original= 48.5 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	5.708	2.894	0.243	1.66	113.31	19.44	8.36	30.89	3.9
*MSF	0.0028219	4.219	2.377	-0.292	1.54	104.62	25.94	30.07	36.38	3.2
ALP1	0.0343966	0.436	0.705	-0.316	0.53	92.33	51.80	218.51	171.16	0.38
2Q1	0.0357064	0.466	0.696	0.409	0.60	141.29	92.67	161.97	147.73	0.45
Q1	0.0372185	0.529	0.858	0.038	0.40	95.20	33.22	291.57	123.17	0.38
O1	0.0387307	0.595	0.563	-0.013	0.86	178.15	133.40	58.53	67.39	1.1
NO1	0.0402686	1.273	1.556	-0.144	1.35	37.81	69.76	194.62	88.11	0.67
K1	0.0417807	0.566	0.738	-0.460	0.63	123.67	89.54	353.15	153.04	0.59
J1	0.0432929	0.676	0.718	-0.456	0.57	107.07	69.87	326.38	119.21	0.89
OO1	0.0448308	1.020	1.256	-0.002	1.06	47.47	55.59	98.34	83.82	0.66
*UPS1	0.0463430	1.186	0.805	-0.301	1.02	143.89	51.92	184.84	69.00	2.2
EPS2	0.0761773	0.623	0.464	-0.523	0.51	54.21	118.67	246.22	112.25	1.8
MU2	0.0776895	0.421	0.525	-0.097	0.45	149.51	91.86	215.46	104.60	0.64
N2	0.0789992	0.659	0.542	0.373	0.59	132.49	85.51	289.06	86.82	1.5
*M2	0.0805114	7.034	0.549	1.381	0.71	65.77	6.29	235.81	5.46	1.6e+002
L2	0.0820236	0.405	0.444	-0.027	0.43	150.78	80.04	62.06	85.68	0.83
*S2	0.0833333	1.865	0.562	0.813	0.73	83.71	26.89	283.76	27.05	11
ETA2	0.0850736	0.578	0.493	-0.129	0.57	74.99	80.43	0.35	71.12	1.4
MO3	0.1192421	0.232	0.295	0.081	0.31	126.18	106.23	225.14	118.52	0.62
M3	0.1207671	0.122	0.242	0.006	0.25	27.72	125.12	357.15	159.40	0.25
MK3	0.1222921	0.244	0.285	-0.044	0.29	85.08	75.71	67.46	94.04	0.73
SK3	0.1251141	0.223	0.306	0.012	0.26	87.62	90.58	15.17	112.28	0.53
MN4	0.1595106	0.261	0.245	0.014	0.23	106.82	53.55	79.55	62.56	1.1
M4	0.1610228	0.350	0.250	0.019	0.25	72.96	40.38	154.68	53.87	2
SN4	0.1623326	0.247	0.268	0.106	0.24	91.47	75.57	253.20	79.99	0.85
MS4	0.1638447	0.305	0.223	-0.194	0.21	105.36	74.87	232.75	89.57	1.9
S4	0.1666667	0.325	0.242	-0.149	0.23	139.83	63.96	355.61	64.35	1.8
2MK5	0.2028035	0.155	0.209	-0.009	0.17	144.47	94.96	294.22	101.30	0.55
2SK5	0.2084474	0.115	0.215	-0.021	0.18	125.84	105.96	209.92	148.37	0.29
2MN6	0.2400221	0.217	0.301	0.027	0.18	105.67	35.00	23.98	114.44	0.52
*M6	0.2415342	0.939	0.377	-0.117	0.20	100.08	10.92	67.25	25.86	6.2
2MS6	0.2443561	0.388	0.362	0.135	0.18	89.40	35.83	97.00	70.59	1.1
2SM6	0.2471781	0.105	0.253	-0.012	0.16	127.01	58.49	203.74	177.75	0.17
3MK7	0.2833149	0.121	0.131	0.071	0.14	127.37	92.26	84.63	116.49	0.85
*M8	0.3220456	0.211	0.132	0.025	0.15	61.15	40.98	208.79	41.51	2.5

total var= 131.4312 pred var= 58.603

percent total var predicted/var original= 44.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.1 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= -1.19, x trend= 0

var(x)= 64.5817 var(xp)= 21.5855 var(xres)= 43.1647
percent var predicted/var original= 33.4 %

y0= -0.492, x trend= 0

var(y)= 122.3541 var(yp)= 40.1625 var(yres)= 82.7607
percent var predicted/var original= 32.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.593	4.100	-0.403	2.06	98.96	48.38	242.27	101.69	0.4
MSF	0.0028219	0.718	2.803	-0.022	1.95	114.95	73.16	326.60	199.61	0.066
ALP1	0.0343966	0.410	0.555	0.114	0.58	143.73	100.35	243.05	112.13	0.55
2Q1	0.0357064	0.439	0.576	0.033	0.51	5.97	100.00	229.44	97.09	0.58
Q1	0.0372185	0.465	0.559	-0.048	0.60	26.56	104.28	43.24	94.38	0.69
O1	0.0387307	0.711	0.661	-0.066	0.69	77.51	58.71	286.70	71.63	1.2
NO1	0.0402686	1.125	1.235	0.116	1.23	85.09	76.17	11.50	92.86	0.83
K1	0.0417807	0.669	0.587	-0.136	0.57	155.77	76.61	54.15	78.64	1.3
J1	0.0432929	0.429	0.568	-0.212	0.44	125.20	105.76	129.70	117.53	0.57
OO1	0.0448308	0.137	0.711	-0.029	0.81	99.20	128.89	111.34	212.55	0.037
UPS1	0.0463430	0.603	0.737	0.089	0.70	112.91	83.62	17.30	102.81	0.67
EPS2	0.0761773	0.249	0.860	-0.103	0.78	56.10	129.06	163.38	212.79	0.084
MU2	0.0776895	0.484	1.013	-0.327	0.80	171.88	107.27	104.60	202.65	0.23
*N2	0.0789992	2.375	1.267	-0.173	1.30	58.12	33.37	173.92	31.45	3.5
*M2	0.0805114	10.413	1.270	-0.315	1.33	53.10	7.87	215.58	6.50	67
*L2	0.0820236	1.373	0.850	-0.612	1.12	82.29	65.11	314.35	46.38	2.6
S2	0.0833333	1.435	1.040	-0.060	1.11	57.59	58.70	267.82	54.12	1.9
ETA2	0.0850736	0.372	0.830	-0.147	0.94	88.51	151.32	319.58	169.47	0.2
MO3	0.1192421	0.253	0.290	-0.141	0.30	162.58	116.36	144.94	138.55	0.76
M3	0.1207671	0.305	0.313	-0.029	0.31	34.25	89.56	189.34	78.83	0.95
MK3	0.1222921	0.232	0.341	-0.112	0.32	44.57	110.64	241.52	133.85	0.46
SK3	0.1251141	0.144	0.296	0.100	0.27	169.38	130.71	112.56	147.23	0.23
MN4	0.1595106	0.235	0.316	-0.084	0.24	41.61	84.75	92.12	98.90	0.55
*M4	0.1610228	0.474	0.286	-0.167	0.35	88.90	58.56	137.44	48.52	2.7
SN4	0.1623326	0.413	0.294	-0.221	0.32	114.38	78.32	26.43	68.17	2
MS4	0.1638447	0.257	0.296	-0.073	0.29	90.59	112.58	248.53	98.34	0.76
S4	0.1666667	0.113	0.245	-0.032	0.27	141.39	115.04	261.60	155.12	0.21
2MK5	0.2028035	0.167	0.178	-0.106	0.20	7.00	121.80	328.49	111.08	0.88
2SK5	0.2084474	0.186	0.180	-0.057	0.20	167.92	89.25	311.57	79.31	1.1
*2MN6	0.2400221	0.628	0.191	-0.204	0.18	101.71	20.45	334.54	20.15	11
*M6	0.2415342	0.800	0.205	-0.167	0.16	98.51	13.94	20.29	14.32	15
*2MS6	0.2443561	0.362	0.175	-0.073	0.20	98.86	34.38	66.57	33.19	4.3
2SM6	0.2471781	0.095	0.129	-0.033	0.13	50.32	109.88	191.30	118.55	0.54
3MK7	0.2833149	0.074	0.123	-0.068	0.11	65.36	135.97	273.24	132.46	0.36
M8	0.3220456	0.073	0.076	-0.050	0.08	161.36	106.74	30.17	119.45	0.92

total var= 186.9358 pred var= 61.748
percent total var predicted/var original= 33.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.0 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= -0.105, x trend= 0

var(x)= 55.4178 var(xp)= 22.6237 var(xres)= 32.7487
percent var predicted/var original= 40.8 %

y0= -2.57, x trend= 0

var(y)= 101.8224 var(yp)= 32.3804 var(yres)= 69.4243
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	1.654	2.746	1.124	2.28	95.93	79.34	324.61	170.25	0.36
MSF	0.0028219	1.344	2.732	0.157	2.16	120.00	74.20	244.91	166.24	0.24
ALP1	0.0343966	0.540	0.568	0.034	0.58	92.37	64.36	319.00	81.25	0.9
2Q1	0.0357064	0.130	0.426	-0.021	0.36	171.57	124.92	94.74	248.90	0.093
Q1	0.0372185	0.385	0.513	0.320	0.48	61.90	124.78	59.13	141.78	0.56
O1	0.0387307	0.581	0.566	0.012	0.51	91.11	65.63	323.67	73.76	1.1
NO1	0.0402686	0.481	0.868	-0.344	0.96	79.85	113.27	249.78	146.10	0.31
K1	0.0417807	0.703	0.524	0.428	0.54	146.26	78.80	43.82	86.16	1.8
J1	0.0432929	0.098	0.400	-0.042	0.39	139.59	127.23	43.38	220.06	0.06
OO1	0.0448308	0.932	0.720	-0.340	0.66	99.67	70.68	316.28	72.66	1.7
UPS1	0.0463430	0.371	0.616	-0.165	0.49	92.04	112.50	109.69	132.42	0.36
EPS2	0.0761773	0.277	0.652	-0.053	0.71	76.89	141.95	137.55	181.64	0.18
MU2	0.0776895	0.424	0.783	-0.272	0.78	156.24	112.11	135.76	138.92	0.29
*N2	0.0789992	2.350	1.130	-0.461	1.25	50.84	30.51	164.03	26.84	4.3
*M2	0.0805114	9.737	1.145	0.182	1.20	49.30	6.64	202.35	6.09	72
*L2	0.0820236	1.255	0.717	-0.950	0.75	69.82	103.70	337.04	98.74	3.1
*S2	0.0833333	1.302	0.876	-0.107	1.03	77.46	59.68	279.27	50.21	2.2
ETA2	0.0850736	0.265	0.800	0.143	0.72	161.45	129.63	45.78	231.64	0.11
MO3	0.1192421	0.221	0.292	-0.105	0.29	14.83	102.06	303.97	111.01	0.58
M3	0.1207671	0.243	0.256	-0.168	0.25	24.67	112.21	211.12	122.49	0.9
MK3	0.1222921	0.233	0.267	-0.204	0.28	111.45	107.49	152.76	130.91	0.76
SK3	0.1251141	0.199	0.276	0.015	0.26	53.29	89.33	335.02	118.98	0.52
MN4	0.1595106	0.238	0.278	-0.108	0.27	85.89	95.08	15.15	86.11	0.74
*M4	0.1610228	0.492	0.276	-0.354	0.32	86.30	93.96	118.25	74.93	3.2
SN4	0.1623326	0.404	0.309	-0.214	0.22	174.05	74.07	314.24	92.38	1.7
MS4	0.1638447	0.198	0.224	-0.016	0.25	74.18	112.33	227.61	90.04	0.79
S4	0.1666667	0.090	0.239	-0.037	0.21	178.32	91.65	247.35	213.09	0.14
*2MK5	0.2028035	0.318	0.199	-0.093	0.18	154.36	44.12	145.58	47.09	2.6
2SK5	0.2084474	0.167	0.198	-0.066	0.17	124.74	83.74	0.57	91.38	0.71
*2MN6	0.2400221	0.544	0.229	-0.105	0.16	103.86	18.70	310.04	23.15	5.7
*M6	0.2415342	0.908	0.200	0.023	0.16	98.44	9.78	358.41	13.47	21
*2MS6	0.2443561	0.375	0.203	0.000	0.17	109.56	25.11	50.90	31.15	3.4
2SM6	0.2471781	0.094	0.135	0.008	0.11	99.49	86.96	326.92	121.92	0.48
3MK7	0.2833149	0.103	0.106	0.023	0.12	159.01	106.57	212.17	91.55	0.94
*M8	0.3220456	0.141	0.096	-0.017	0.10	165.40	47.46	7.05	49.07	2.2

total var= 157.2402 pred var= 55.0041
percent total var predicted/var original= 35.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.2 m

Mooring Number: 6341

File Name: 6341adc-alh.nc

nobs = 3356, ngood = 3350, 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= 0.87, x trend= 0

var(x)= 18.6483 var(xp)= 10.7405 var(xres)= 7.9052
percent var predicted/var original= 57.6 %

y0= -4.28, x trend= 0

var(y)= 67.9872 var(yp)= 15.8292 var(yres)= 52.1211
percent var predicted/var original= 23.3 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.922	2.457	0.068	0.79	95.23	21.63	337.71	75.99	0.61
MSF	0.0028219	0.672	1.873	0.193	0.91	102.50	33.25	177.99	189.11	0.13
ALP1	0.0343966	0.569	0.521	0.058	0.33	105.15	33.42	6.85	61.99	1.2
2Q1	0.0357064	0.221	0.415	-0.131	0.27	73.83	58.30	306.94	160.39	0.28
Q1	0.0372185	0.342	0.456	-0.005	0.26	96.92	40.70	30.71	108.85	0.56
O1	0.0387307	0.595	0.535	-0.011	0.37	65.69	31.98	293.80	61.06	1.2
NO1	0.0402686	0.137	0.655	-0.030	0.40	66.18	55.85	228.18	202.63	0.044
K1	0.0417807	0.755	0.557	0.036	0.29	84.32	21.92	354.48	52.40	1.8
J1	0.0432929	0.167	0.386	0.063	0.26	119.18	57.43	295.11	186.04	0.19
OO1	0.0448308	0.486	0.727	-0.149	0.39	98.29	45.19	301.54	107.70	0.45
UPS1	0.0463430	0.177	0.479	0.042	0.34	64.90	54.62	112.19	170.45	0.14
EPS2	0.0761773	0.239	0.197	-0.094	0.23	164.61	97.11	346.17	73.09	1.5
MU2	0.0776895	0.212	0.254	0.041	0.24	102.56	76.81	113.06	113.75	0.7
*N2	0.0789992	1.743	0.305	0.162	0.30	51.92	9.59	181.55	10.94	33
*M2	0.0805114	6.592	0.312	1.475	0.27	50.55	2.59	210.68	2.98	4.5e+002
*L2	0.0820236	0.430	0.290	-0.007	0.22	68.93	29.34	250.96	30.99	2.2
*S2	0.0833333	1.007	0.289	0.365	0.29	39.77	23.00	234.80	21.27	12
ETA2	0.0850736	0.248	0.240	-0.052	0.22	89.28	58.90	311.71	80.00	1.1
MO3	0.1192421	0.062	0.096	-0.027	0.10	79.69	114.91	284.74	124.01	0.42
M3	0.1207671	0.108	0.105	0.038	0.11	133.77	79.67	285.59	83.34	1.1
MK3	0.1222921	0.082	0.105	-0.047	0.09	46.78	106.57	280.96	130.45	0.6
SK3	0.1251141	0.162	0.118	-0.153	0.11	57.13	129.60	30.89	131.94	1.9
MN4	0.1595106	0.145	0.122	0.031	0.08	111.89	33.69	104.03	50.84	1.4
*M4	0.1610228	0.245	0.124	0.117	0.08	75.49	34.02	91.66	40.88	3.9
SN4	0.1623326	0.112	0.094	0.021	0.09	130.61	58.94	290.42	68.84	1.4
MS4	0.1638447	0.127	0.106	-0.062	0.07	91.83	54.77	144.60	77.82	1.4
S4	0.1666667	0.059	0.086	0.000	0.07	125.62	86.56	286.79	119.48	0.46
2MK5	0.2028035	0.078	0.064	0.000	0.07	25.54	66.73	228.69	60.72	1.5
2SK5	0.2084474	0.054	0.068	-0.015	0.06	105.23	95.52	196.93	106.46	0.63
*2MN6	0.2400221	0.477	0.171	-0.029	0.08	86.65	11.82	334.67	19.76	7.8
*M6	0.2415342	0.872	0.167	-0.022	0.08	84.19	5.49	10.88	12.62	27
*2MS6	0.2443561	0.280	0.160	-0.008	0.09	92.57	16.16	62.96	36.36	3
2SM6	0.2471781	0.056	0.099	0.037	0.08	113.80	65.88	67.26	163.03	0.32
3MK7	0.2833149	0.062	0.065	0.012	0.06	48.42	74.18	293.30	74.44	0.9
M8	0.3220456	0.019	0.036	-0.003	0.04	123.00	119.57	76.85	162.03	0.27

total var= 86.6355 pred var= 26.5697
percent total var predicted/var original= 30.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.2 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= 1.13, x trend= 0

var(x)= 11.0216 var(xp)= 2.9904 var(xres)= 8.0417
percent var predicted/var original= 27.1 %

y0= -3.98, x trend= 0

var(y)= 61.6964 var(yp)= 17.1399 var(yres)= 44.508
percent var predicted/var original= 27.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.927	1.975	-0.022	0.93	110.96	37.24	9.73	133.28	0.22
MSF	0.0028219	0.634	1.798	-0.018	0.78	122.43	33.95	167.02	174.43	0.12
ALP1	0.0343966	0.519	0.461	0.146	0.49	128.63	55.84	345.94	73.19	1.3
2Q1	0.0357064	0.372	0.510	0.068	0.36	117.34	55.27	9.32	120.04	0.53
Q1	0.0372185	0.353	0.507	-0.086	0.30	115.99	56.22	323.45	123.87	0.48
O1	0.0387307	0.274	0.451	-0.010	0.35	41.82	75.84	300.40	135.29	0.37
NO1	0.0402686	0.299	0.656	0.192	0.51	127.62	74.20	44.70	198.50	0.21
K1	0.0417807	0.605	0.727	-0.087	0.34	95.63	33.45	339.16	73.53	0.69
J1	0.0432929	0.401	0.441	0.088	0.37	100.88	42.05	287.90	115.09	0.83
OO1	0.0448308	0.257	0.532	0.130	0.48	160.25	121.11	300.54	137.45	0.23
UPS1	0.0463430	0.447	0.517	-0.089	0.47	130.97	59.97	166.97	85.58	0.75
EPS2	0.0761773	0.224	0.186	0.055	0.20	57.45	59.80	180.69	72.17	1.4
MU2	0.0776895	0.332	0.256	-0.112	0.19	66.82	44.09	84.57	50.87	1.7
*N2	0.0789992	1.378	0.246	0.452	0.21	71.91	10.17	191.65	13.08	31
*M2	0.0805114	5.639	0.270	1.699	0.20	73.25	2.38	218.69	3.10	4.4e+002
*L2	0.0820236	0.379	0.224	0.032	0.17	69.46	26.67	256.66	37.17	2.9
*S2	0.0833333	0.945	0.259	0.367	0.21	80.77	15.92	264.98	17.69	13
ETA2	0.0850736	0.223	0.195	0.043	0.20	132.70	60.09	48.44	61.07	1.3
MO3	0.1192421	0.120	0.165	0.018	0.13	100.83	85.52	345.81	116.24	0.53
M3	0.1207671	0.109	0.140	0.046	0.15	132.13	100.14	248.76	99.61	0.6
MK3	0.1222921	0.063	0.131	-0.040	0.12	40.55	127.00	275.80	170.05	0.24
SK3	0.1251141	0.073	0.139	0.025	0.15	166.48	142.79	296.42	183.21	0.28
MN4	0.1595106	0.091	0.110	-0.027	0.10	69.00	86.13	76.95	103.66	0.68
*M4	0.1610228	0.233	0.132	-0.063	0.12	82.27	35.87	90.57	41.47	3.1
SN4	0.1623326	0.065	0.090	0.012	0.10	90.21	106.07	206.17	139.82	0.52
MS4	0.1638447	0.142	0.127	-0.018	0.11	102.18	54.20	125.19	63.62	1.2
S4	0.1666667	0.083	0.104	0.005	0.10	78.67	92.73	139.61	99.61	0.62
2MK5	0.2028035	0.060	0.083	0.011	0.08	32.38	114.86	129.67	114.02	0.52
2SK5	0.2084474	0.087	0.095	-0.034	0.08	72.30	80.31	93.03	80.87	0.83
*2MN6	0.2400221	0.608	0.204	-0.011	0.09	99.92	13.08	314.25	21.48	8.9
*M6	0.2415342	0.861	0.188	0.046	0.11	93.81	6.97	348.11	15.66	21
*2MS6	0.2443561	0.316	0.219	0.012	0.09	94.98	23.51	58.47	45.90	2.1
2SM6	0.2471781	0.025	0.142	-0.001	0.10	133.19	57.83	1.03	228.25	0.031
3MK7	0.2833149	0.098	0.081	0.010	0.08	5.92	75.72	99.55	73.27	1.5
M8	0.3220456	0.027	0.054	0.003	0.06	73.80	111.43	23.36	170.02	0.25

total var= 72.7181 pred var= 20.1303
percent total var predicted/var original= 27.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.0 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= 2.21, x trend= 0

var(x)= 19.4295 var(xp)= 6.2581 var(xres)= 13.1736
percent var predicted/var original= 32.2 %

y0= -4.68, x trend= 0

var(y)= 61.5774 var(yp)= 17.6867 var(yres)= 43.8645
percent var predicted/var original= 28.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.245	2.236	-0.039	1.26	103.58	48.19	14.68	129.87	0.31
MSF	0.0028219	0.757	1.887	0.322	1.43	112.76	56.91	180.63	197.71	0.16
ALP1	0.0343966	0.603	0.566	0.023	0.48	119.42	53.36	1.34	61.41	1.1
2Q1	0.0357064	0.372	0.536	-0.052	0.38	64.72	71.21	354.03	110.77	0.48
Q1	0.0372185	0.362	0.475	0.059	0.35	104.60	57.36	359.48	106.96	0.58
O1	0.0387307	0.514	0.579	-0.192	0.45	80.98	52.36	288.85	101.39	0.79
NO1	0.0402686	0.247	0.632	-0.152	0.62	24.96	128.98	246.76	157.68	0.15
K1	0.0417807	0.823	0.600	-0.001	0.50	91.85	28.72	359.94	51.94	1.9
J1	0.0432929	0.160	0.390	0.023	0.36	57.29	75.35	251.76	180.81	0.17
OO1	0.0448308	0.526	0.635	-0.063	0.58	120.81	67.23	353.14	99.69	0.69
UPS1	0.0463430	0.279	0.556	0.047	0.45	135.22	72.46	149.44	119.82	0.25
EPS2	0.0761773	0.188	0.242	0.034	0.21	32.72	85.43	177.75	83.35	0.6
MU2	0.0776895	0.257	0.240	0.163	0.24	50.48	83.80	91.13	95.00	1.1
*N2	0.0789992	1.632	0.288	0.345	0.29	65.01	9.47	185.38	9.95	32
*M2	0.0805114	6.123	0.303	1.754	0.29	61.29	2.90	205.69	3.06	4.1e+002
*L2	0.0820236	0.417	0.251	-0.058	0.20	71.86	26.60	259.76	40.11	2.8
*S2	0.0833333	0.824	0.307	0.461	0.28	69.71	30.65	253.05	33.42	7.2
ETA2	0.0850736	0.050	0.183	0.008	0.17	36.60	119.68	293.28	215.86	0.073
MO3	0.1192421	0.171	0.150	0.079	0.15	115.17	89.12	41.98	96.40	1.3
M3	0.1207671	0.036	0.115	-0.027	0.12	134.62	116.32	354.22	205.52	0.097
MK3	0.1222921	0.120	0.146	-0.080	0.13	72.56	108.54	300.58	115.70	0.68
SK3	0.1251141	0.191	0.157	-0.029	0.15	126.47	60.65	348.10	67.92	1.5
MN4	0.1595106	0.130	0.118	-0.063	0.12	31.60	96.99	109.93	84.51	1.2
M4	0.1610228	0.169	0.141	0.028	0.12	108.39	46.06	116.44	58.02	1.4
SN4	0.1623326	0.207	0.160	-0.023	0.12	110.14	40.82	187.87	47.57	1.7
MS4	0.1638447	0.106	0.135	0.031	0.12	129.36	86.43	154.97	93.23	0.61
S4	0.1666667	0.075	0.117	-0.025	0.12	167.94	124.62	40.34	155.45	0.41
2MK5	0.2028035	0.077	0.115	0.027	0.10	135.45	103.65	211.77	113.76	0.45
2SK5	0.2084474	0.074	0.090	0.016	0.09	54.33	95.72	135.04	119.65	0.67
*2MN6	0.2400221	0.570	0.195	-0.013	0.10	96.63	12.33	320.83	21.40	8.5
*M6	0.2415342	0.812	0.216	-0.004	0.11	94.00	7.63	343.49	15.58	14
2MS6	0.2443561	0.273	0.223	0.067	0.11	97.44	29.56	67.97	48.36	1.5
2SM6	0.2471781	0.097	0.147	-0.041	0.12	143.91	97.66	68.94	108.20	0.44
3MK7	0.2833149	0.053	0.090	-0.023	0.09	150.51	116.22	169.22	134.85	0.34
M8	0.3220456	0.025	0.055	-0.001	0.06	64.93	128.41	67.23	193.70	0.21

total var= 81.007 pred var= 23.9448
percent total var predicted/var original= 29.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.9 m

Mooring Number: 6401

File Name: 6401adc-alh.nc

nobs = 3044, ngood = 3029, 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= 2.27, x trend= 0

var(x)= 44.2037 var(xp)= 3.493 var(xres)= 40.6691

percent var predicted/var original= 7.9 %

y0= -3.21, x trend= 0

var(y)= 112.6165 var(yp)= 32.8419 var(yres)= 79.8168

percent var predicted/var original= 29.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.982	3.030	0.092	2.49	121.96	62.13	92.66	90.81	0.97
MSF	0.0028219	2.371	3.131	-0.445	2.64	109.74	71.09	38.85	107.46	0.57
ALP1	0.0343966	0.343	0.612	0.034	0.52	85.45	75.21	158.15	127.05	0.31
2Q1	0.0357064	0.662	0.671	-0.063	0.56	99.19	41.42	140.26	89.08	0.98
Q1	0.0372185	0.345	0.589	-0.081	0.51	89.51	69.14	126.49	149.75	0.34
O1	0.0387307	0.424	0.591	0.209	0.66	135.88	85.30	306.79	127.08	0.52
NO1	0.0402686	0.457	0.804	0.249	0.62	50.46	92.73	349.78	124.70	0.32
K1	0.0417807	0.793	0.772	-0.367	0.52	78.25	59.70	81.04	92.57	1.1
J1	0.0432929	0.498	0.666	-0.157	0.47	101.58	69.27	79.16	118.91	0.56
OO1	0.0448308	0.563	0.624	0.106	0.72	139.57	85.29	53.53	97.65	0.81
UPS1	0.0463430	0.317	0.552	-0.030	0.56	23.99	125.33	263.12	125.10	0.33
EPS2	0.0761773	0.424	0.563	-0.174	0.51	92.97	109.21	143.15	108.97	0.57
MU2	0.0776895	0.484	0.541	-0.269	0.55	74.86	95.90	261.78	116.76	0.8
*N2	0.0789992	1.911	0.681	0.010	0.65	73.05	21.17	167.70	24.21	7.9
*M2	0.0805114	7.960	0.642	0.477	0.63	73.45	4.82	216.79	5.15	1.5e+002
*L2	0.0820236	1.180	0.578	-0.730	0.56	63.10	49.81	283.48	55.81	4.2
*S2	0.0833333	1.396	0.717	0.447	0.67	72.16	36.49	260.92	35.86	3.8
ETA2	0.0850736	0.451	0.528	-0.294	0.51	156.17	124.63	90.93	130.41	0.73
MO3	0.1192421	0.133	0.224	-0.028	0.21	50.31	111.52	345.12	146.08	0.35
M3	0.1207671	0.186	0.266	0.092	0.22	56.35	108.72	137.52	112.75	0.49
*MK3	0.1222921	0.322	0.228	-0.228	0.28	114.42	93.42	291.80	105.30	2
SK3	0.1251141	0.171	0.229	0.084	0.25	170.25	126.40	314.73	143.34	0.56
MN4	0.1595106	0.194	0.203	-0.047	0.19	95.45	63.69	94.58	73.40	0.92
*M4	0.1610228	0.396	0.203	0.000	0.21	135.60	33.18	161.06	36.70	3.8
SN4	0.1623326	0.171	0.220	-0.055	0.17	107.24	74.34	149.02	89.41	0.61
*MS4	0.1638447	0.344	0.224	-0.050	0.23	113.79	37.95	194.65	40.74	2.4
S4	0.1666667	0.176	0.180	0.011	0.17	107.58	71.00	240.25	85.72	0.96
*2MK5	0.2028035	0.198	0.134	-0.051	0.15	135.43	53.30	305.74	49.31	2.2
2SK5	0.2084474	0.103	0.124	-0.069	0.12	9.92	123.86	33.21	115.01	0.69
*2MN6	0.2400221	0.441	0.132	-0.085	0.11	119.15	16.70	310.23	21.06	11
*M6	0.2415342	0.757	0.160	-0.021	0.13	112.24	9.12	9.27	11.83	22
*2MS6	0.2443561	0.236	0.142	0.010	0.12	109.88	25.23	50.16	37.89	2.8
2SM6	0.2471781	0.099	0.108	0.018	0.10	107.16	59.55	49.00	83.59	0.85
3MK7	0.2833149	0.043	0.077	-0.009	0.08	62.68	111.06	183.69	150.63	0.32
M8	0.3220456	0.024	0.052	-0.001	0.05	64.47	129.27	283.54	193.85	0.21

total var= 156.8201 pred var= 36.3349

percent total var predicted/var original= 23.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.0 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= -0.841, x trend= 0

var(x)= 55.7663 var(xp)= 25.8941 var(xres)= 29.8696
percent var predicted/var original= 46.4 %

y0= 1.48, x trend= 0

var(y)= 79.099 var(yp)= 34.7571 var(yres)= 44.2922
percent var predicted/var original= 43.9 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.345	1.397	-0.024	0.86	139.92	57.52	234.70	242.93	0.061
MSF	0.0028219	1.195	1.835	-0.188	0.84	74.77	40.36	104.43	108.23	0.42
ALP1	0.0343966	0.260	0.471	-0.006	0.40	125.50	119.93	347.11	144.62	0.3
2Q1	0.0357064	0.202	0.439	-0.129	0.39	107.85	122.61	107.40	163.71	0.21
Q1	0.0372185	0.191	0.414	-0.173	0.38	166.00	143.13	49.43	169.61	0.21
O1	0.0387307	0.358	0.516	0.073	0.46	39.90	109.57	306.15	114.81	0.48
NO1	0.0402686	0.249	0.391	0.097	0.44	34.37	127.11	239.83	124.94	0.41
*K1	0.0417807	0.921	0.543	0.088	0.58	118.36	37.40	14.24	39.21	2.9
J1	0.0432929	0.083	0.399	0.036	0.40	162.95	133.68	124.15	226.95	0.043
OO1	0.0448308	0.274	0.424	0.003	0.43	125.59	108.06	349.56	147.11	0.42
*UPS1	0.0463430	0.684	0.444	-0.502	0.49	107.57	96.41	118.98	104.08	2.4
EPS2	0.0761773	0.794	0.638	-0.273	0.47	170.26	45.59	72.42	67.82	1.5
*MU2	0.0776895	0.962	0.515	-0.534	0.73	76.52	80.55	211.67	58.00	3.5
*N2	0.0789992	2.816	0.596	-0.373	0.84	58.89	17.74	203.30	14.11	22
*M2	0.0805114	10.136	0.759	-0.077	0.73	48.46	4.26	225.56	4.49	1.8e+002
*L2	0.0820236	1.870	0.700	-0.958	0.72	35.84	37.15	302.35	37.12	7.1
*S2	0.0833333	1.090	0.713	0.386	0.55	25.06	39.70	244.09	57.39	2.3
ETA2	0.0850736	0.338	0.544	-0.166	0.45	10.27	74.81	286.18	141.31	0.39
MO3	0.1192421	0.250	0.249	0.006	0.26	34.44	84.84	314.42	93.02	1
M3	0.1207671	0.197	0.249	0.058	0.23	66.48	108.35	274.52	103.25	0.63
MK3	0.1222921	0.223	0.280	-0.108	0.29	62.22	89.24	264.24	112.92	0.64
SK3	0.1251141	0.148	0.240	0.095	0.24	84.15	94.36	282.68	135.57	0.38
MN4	0.1595106	0.290	0.241	0.065	0.30	72.61	77.01	69.98	74.99	1.4
*M4	0.1610228	0.626	0.284	0.107	0.30	142.23	30.57	143.36	31.92	4.9
SN4	0.1623326	0.163	0.266	0.009	0.22	41.45	98.50	160.49	123.02	0.38
MS4	0.1638447	0.193	0.235	-0.111	0.24	126.80	115.73	251.38	102.78	0.68
S4	0.1666667	0.114	0.232	-0.034	0.19	72.79	138.17	314.69	150.12	0.24
2MK5	0.2028035	0.192	0.180	-0.060	0.18	89.19	73.48	322.31	70.07	1.1
2SK5	0.2084474	0.115	0.185	-0.052	0.15	164.74	104.18	59.04	120.90	0.39
*2MN6	0.2400221	0.601	0.208	-0.138	0.24	82.48	26.14	350.22	21.21	8.4
*M6	0.2415342	0.769	0.208	-0.064	0.24	81.83	18.68	17.38	16.70	14
*2MS6	0.2443561	0.281	0.187	-0.092	0.20	74.15	60.41	101.17	51.73	2.3
2SM6	0.2471781	0.090	0.157	-0.042	0.14	104.54	127.33	162.19	157.13	0.33
3MK7	0.2833149	0.037	0.129	-0.004	0.11	0.35	112.62	227.65	201.94	0.083
M8	0.3220456	0.047	0.076	-0.007	0.09	67.48	126.39	111.27	118.62	0.39

total var= 134.8653 pred var= 60.6513
percent total var predicted/var original= 45.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.4 m

Mooring Number: 6671

File Name: 6671adc-alh.nc

nobs = 1270, ngood = 1266, 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= -0.298, x trend= 0

var(x)= 14.6161 var(xp)= 6.8577 var(xres)= 7.7749
percent var predicted/var original= 46.9 %

y0= -0.656, x trend= 0

var(y)= 53.0838 var(yp)= 17.8698 var(yres)= 35.1589
percent var predicted/var original= 33.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.717	1.984	0.214	1.43	103.62	40.84	193.28	108.07	0.75
MSF	0.0028219	1.186	1.975	0.135	1.48	110.68	50.86	307.67	144.67	0.36
ALP1	0.0343966	0.148	0.339	0.059	0.30	115.20	109.63	140.79	140.34	0.19
2Q1	0.0357064	0.419	0.372	0.205	0.38	144.95	77.00	216.22	77.80	1.3
Q1	0.0372185	0.540	0.413	-0.073	0.42	79.06	49.41	278.13	51.40	1.7
*O1	0.0387307	0.803	0.446	0.242	0.41	122.07	36.55	357.87	40.50	3.2
*NO1	0.0402686	0.514	0.358	-0.076	0.32	76.75	39.23	116.26	46.99	2.1
K1	0.0417807	0.261	0.375	0.210	0.38	172.13	145.64	79.34	134.92	0.48
J1	0.0432929	0.324	0.335	-0.046	0.34	177.58	95.74	78.04	93.27	0.94
OO1	0.0448308	0.274	0.293	-0.215	0.31	157.01	144.73	16.96	140.42	0.88
UPS1	0.0463430	0.101	0.266	0.025	0.28	79.73	104.46	116.90	197.53	0.14
EPS2	0.0761773	0.166	0.264	0.008	0.22	58.26	97.55	335.37	108.86	0.39
MU2	0.0776895	0.184	0.274	-0.030	0.25	160.45	113.37	115.40	101.99	0.45
*N2	0.0789992	0.955	0.306	0.330	0.27	67.14	22.86	174.05	23.30	9.8
*M2	0.0805114	6.345	0.324	1.536	0.26	59.48	2.67	215.89	3.52	3.8e+002
*L2	0.0820236	0.519	0.315	-0.092	0.28	118.35	43.89	340.09	43.17	2.7
*S2	0.0833333	1.237	0.328	0.266	0.31	56.58	14.45	235.77	16.01	14
ETA2	0.0850736	0.208	0.230	0.123	0.22	74.65	89.84	340.84	104.60	0.82
MO3	0.1192421	0.204	0.236	0.050	0.12	84.38	37.10	311.27	90.96	0.75
M3	0.1207671	0.049	0.176	0.025	0.12	67.36	64.71	200.13	185.91	0.078
MK3	0.1222921	0.109	0.191	0.077	0.15	74.60	62.38	308.30	145.31	0.33
SK3	0.1251141	0.187	0.154	-0.033	0.21	24.74	91.48	75.52	64.42	1.5
MN4	0.1595106	0.031	0.100	-0.003	0.09	37.33	116.57	244.25	201.29	0.094
*M4	0.1610228	0.243	0.152	0.057	0.12	56.62	37.69	65.69	40.73	2.5
SN4	0.1623326	0.169	0.131	-0.088	0.11	54.78	55.66	43.62	72.11	1.7
MS4	0.1638447	0.117	0.127	0.063	0.11	111.28	70.65	170.17	86.49	0.86
S4	0.1666667	0.108	0.112	0.026	0.13	22.70	113.01	230.86	85.68	0.92
2MK5	0.2028035	0.091	0.115	-0.023	0.12	115.09	86.66	257.52	107.00	0.63
2SK5	0.2084474	0.102	0.124	-0.007	0.10	82.12	80.47	69.74	88.08	0.68
*2MN6	0.2400221	0.475	0.198	0.019	0.10	90.85	13.23	315.62	25.18	5.7
*M6	0.2415342	0.876	0.216	-0.020	0.12	92.30	6.95	21.76	14.34	16
*2MS6	0.2443561	0.350	0.233	0.055	0.12	102.46	20.26	50.85	34.10	2.2
2SM6	0.2471781	0.058	0.121	0.015	0.12	28.13	100.98	34.52	153.18	0.23
3MK7	0.2833149	0.073	0.103	-0.055	0.11	67.11	121.80	209.29	141.73	0.49
M8	0.3220456	0.089	0.074	-0.028	0.07	122.50	60.97	185.56	69.15	1.5

total var= 67.6999 pred var= 24.7275
percent total var predicted/var original= 36.5 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.1 m

Mooring Number: 6851

File Name: 6851adc-alh.nc

nobs = 2493, ngood = 2485, 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= 0.736, x trend= 0

var(x)= 22.0503 var(xp)= 6.4358 var(xres)= 15.567
percent var predicted/var original= 29.2 %

y0= -1.98, x trend= 0

var(y)= 76.8366 var(yp)= 17.981 var(yres)= 58.8023
percent var predicted/var original= 23.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.837	2.211	-0.096	1.37	117.17	27.09	213.12	48.43	1.6
MSF	0.0028219	1.969	1.972	-0.351	1.22	112.54	35.28	354.89	80.15	1
ALP1	0.0343966	0.526	0.685	-0.266	0.59	90.44	78.58	17.84	119.37	0.59
2Q1	0.0357064	0.341	0.488	0.184	0.54	25.24	132.98	153.93	130.04	0.49
Q1	0.0372185	0.518	0.704	-0.160	0.49	112.00	70.92	304.38	121.33	0.54
O1	0.0387307	0.423	0.571	-0.027	0.50	55.49	78.46	294.64	130.40	0.55
NO1	0.0402686	0.244	0.500	-0.061	0.38	122.26	74.94	144.13	148.89	0.24
K1	0.0417807	0.693	0.689	-0.055	0.61	123.81	54.48	64.79	82.53	1
J1	0.0432929	0.604	0.756	0.010	0.50	118.27	59.14	110.67	86.10	0.64
OO1	0.0448308	0.430	0.616	-0.015	0.38	79.21	53.45	99.34	109.18	0.49
UPS1	0.0463430	0.362	0.621	-0.157	0.43	101.72	69.51	147.58	121.28	0.34
EPS2	0.0761773	0.205	0.316	-0.110	0.33	85.49	105.08	301.46	160.53	0.42
MU2	0.0776895	0.265	0.365	0.132	0.37	53.30	121.25	109.96	132.83	0.53
*N2	0.0789992	1.860	0.464	0.399	0.47	53.79	16.17	179.25	16.25	16
*M2	0.0805114	6.469	0.480	1.535	0.44	60.84	4.17	215.40	4.38	1.8e+002
L2	0.0820236	0.566	0.611	0.206	0.47	83.21	70.34	325.52	86.50	0.86
*S2	0.0833333	1.211	0.461	0.458	0.44	71.79	26.64	279.21	26.54	6.9
ETA2	0.0850736	0.205	0.314	-0.010	0.28	121.94	99.45	242.60	113.68	0.43
MO3	0.1192421	0.159	0.193	-0.021	0.14	74.17	44.24	303.28	88.60	0.68
M3	0.1207671	0.113	0.180	0.046	0.16	127.55	79.87	181.75	131.33	0.4
MK3	0.1222921	0.054	0.180	0.008	0.13	11.48	117.35	31.42	188.18	0.09
SK3	0.1251141	0.207	0.171	-0.084	0.16	129.22	70.90	287.19	85.61	1.5
MN4	0.1595106	0.112	0.117	0.035	0.14	133.92	84.78	178.69	91.53	0.91
*M4	0.1610228	0.304	0.150	-0.009	0.15	85.42	26.32	134.48	28.09	4.1
SN4	0.1623326	0.084	0.116	0.009	0.11	24.27	109.78	29.81	112.29	0.53
MS4	0.1638447	0.133	0.109	0.064	0.12	71.86	77.17	139.03	75.17	1.5
S4	0.1666667	0.072	0.119	-0.038	0.11	108.56	116.71	162.36	124.06	0.37
2MK5	0.2028035	0.129	0.113	0.004	0.10	83.39	56.24	313.09	63.34	1.3
2SK5	0.2084474	0.087	0.096	0.007	0.09	48.69	81.65	104.86	86.56	0.81
*2MN6	0.2400221	0.519	0.167	-0.015	0.11	92.06	14.50	330.51	19.16	9.6
*M6	0.2415342	0.716	0.184	-0.047	0.13	93.41	9.71	8.98	14.63	15
*2MS6	0.2443561	0.481	0.178	0.010	0.13	88.11	18.48	70.86	22.46	7.3
2SM6	0.2471781	0.095	0.131	0.004	0.11	73.73	72.30	186.99	117.01	0.53
3MK7	0.2833149	0.024	0.075	-0.002	0.07	103.91	106.23	130.97	194.70	0.1
M8	0.3220456	0.082	0.070	-0.011	0.07	116.69	77.00	90.08	71.87	1.4

total var= 98.8869 pred var= 24.4167
percent total var predicted/var original= 24.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 4.6 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= -0.622, x trend= 0

var(x)= 48.67 var(xp)= 13.2758 var(xres)= 35.4688
percent var predicted/var original= 27.3 %

y0= -0.183, x trend= 0

var(y)= 117.1263 var(yp)= 43.5198 var(yres)= 73.5294
percent var predicted/var original= 37.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
SSA	0.0002282	1.189	1.749	-0.142	1.68	129.06	63.34	240.87	149.77	0.46
*MM	0.0015122	4.790	2.503	0.310	1.93	119.19	23.55	149.75	36.40	3.7
MSF	0.0028219	1.047	1.817	-0.008	1.39	129.75	79.00	225.44	124.44	0.33
MF	0.0030501	1.444	2.243	-0.019	1.37	107.95	52.80	44.89	113.72	0.41
ALP1	0.0343966	0.304	0.423	-0.010	0.45	139.10	101.99	255.73	115.91	0.52
2Q1	0.0357064	0.278	0.414	-0.051	0.41	152.31	118.54	63.03	123.75	0.45
Q1	0.0372185	0.255	0.385	-0.244	0.43	83.67	126.82	357.79	155.30	0.44
*O1	0.0387307	0.815	0.533	-0.343	0.50	99.77	49.44	277.27	53.22	2.3
*TAU1	0.0389588	0.844	0.518	-0.416	0.46	78.76	52.20	187.59	59.73	2.7
BET1	0.0400404	0.517	0.465	0.029	0.44	64.65	61.63	76.65	72.51	1.2
NO1	0.0402686	0.180	0.287	0.027	0.28	43.97	121.31	50.85	128.15	0.39
P1	0.0415526	0.530	0.514	-0.262	0.47	56.68	76.07	129.63	90.13	1.1
*K1	0.0417807	0.725	0.449	-0.012	0.57	158.66	50.63	44.84	51.45	2.6
PH11	0.0420089	0.397	0.503	0.085	0.43	55.37	84.54	161.49	99.21	0.62
J1	0.0432929	0.593	0.452	-0.559	0.44	170.56	126.34	98.80	130.47	1.7
SO1	0.0446027	0.390	0.446	-0.146	0.48	159.00	101.57	215.70	100.04	0.77
OO1	0.0448308	0.578	0.437	-0.204	0.39	99.26	52.40	117.11	51.81	1.7
UPS1	0.0463430	0.307	0.338	-0.058	0.35	105.15	89.75	167.77	98.57	0.82
EPS2	0.0761773	0.563	0.730	-0.339	0.65	51.21	112.01	177.49	118.65	0.59
MU2	0.0776895	0.557	0.660	-0.084	0.65	65.42	104.46	164.31	95.67	0.71
*N2	0.0789992	2.520	0.846	0.251	0.86	63.06	21.07	192.81	20.09	8.9
*M2	0.0805114	8.899	0.896	0.275	1.19	61.81	6.68	221.08	6.00	99
*MKS2	0.0807396	1.470	0.899	-0.483	0.77	31.12	40.83	96.10	37.75	2.7
L2	0.0820236	0.982	1.072	-0.273	1.08	56.24	98.80	267.08	69.88	0.84
*S2	0.0833333	1.394	0.725	-0.201	1.03	83.14	48.51	296.49	42.66	3.7
K2	0.0835615	0.737	0.818	-0.094	0.70	35.82	81.26	238.54	74.56	0.81
MSN2	0.0848455	0.363	0.635	-0.251	0.70	44.94	124.76	274.32	145.28	0.33
ETA2	0.0850736	0.301	0.592	-0.195	0.53	69.23	139.57	262.56	133.53	0.26
MO3	0.1192421	0.228	0.252	-0.151	0.24	93.46	105.84	313.16	118.85	0.82
M3	0.1207671	0.162	0.268	-0.114	0.28	70.86	106.12	22.49	130.68	0.36
SO3	0.1220640	0.308	0.280	-0.228	0.27	109.54	94.10	140.01	102.31	1.2
*MK3	0.1222921	0.387	0.259	-0.270	0.28	177.55	114.26	139.22	137.70	2.2
SK3	0.1251141	0.230	0.269	-0.146	0.24	147.64	98.65	299.97	121.76	0.73
MN4	0.1595106	0.215	0.244	-0.048	0.28	160.26	89.03	141.36	115.76	0.78
*M4	0.1610228	0.485	0.300	-0.247	0.31	115.71	65.71	137.30	47.42	2.6
SN4	0.1623326	0.173	0.259	-0.046	0.27	97.89	135.93	281.43	125.69	0.45
MS4	0.1638447	0.379	0.347	-0.106	0.27	4.39	53.01	62.47	73.26	1.2
MK4	0.1640729	0.257	0.253	-0.035	0.28	164.53	73.22	155.95	109.11	1
S4	0.1666667	0.083	0.287	-0.065	0.23	126.14	127.91	47.48	178.57	0.084
SK4	0.1668948	0.100	0.224	0.007	0.23	98.17	162.34	316.59	178.90	0.2
2MK5	0.2028035	0.110	0.171	-0.003	0.16	107.80	123.99	282.22	126.69	0.41
2SK5	0.2084474	0.067	0.167	-0.011	0.17	10.99	122.13	250.64	174.15	0.16
*2MN6	0.2400221	0.596	0.225	-0.055	0.21	102.11	20.00	342.75	20.62	7
*M6	0.2415342	0.858	0.249	0.025	0.21	98.06	15.33	24.90	16.22	12
*2MS6	0.2443561	0.433	0.195	-0.128	0.18	99.73	29.53	65.99	32.61	4.9
2MK6	0.2445843	0.189	0.205	0.016	0.16	69.41	51.51	78.04	67.49	0.85
2SM6	0.2471781	0.066	0.152	-0.016	0.15	126.91	108.13	67.53	178.91	0.19
MSK6	0.2474062	0.065	0.147	-0.014	0.14	122.68	105.51	134.76	159.38	0.19
3MK7	0.2833149	0.126	0.128	-0.009	0.12	104.69	66.79	289.02	72.92	0.97

M8 0.3220456 0.061 0.095 -0.038 0.08 135.83 112.64 122.95 123.87 0.42

total var= 165.7962 pred var= 56.7956
percent total var predicted/var original= 34.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.3 m

Mooring Number: 6921

File Name: 6921adc-alh.nc

nobs = 3739, ngood = 3738, 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= -1.18, x trend= 0

var(x)= 50.8647 var(xp)= 15.5304 var(xres)= 35.3382
percent var predicted/var original= 30.5 %

y0= 0.229, x trend= 0

var(y)= 112.6216 var(yp)= 45.9391 var(yres)= 66.749
percent var predicted/var original= 40.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	4.705	2.471	0.282	2.23	123.12	27.82	141.86	31.26	3.6
MSF	0.0028219	1.215	1.807	-0.266	1.46	130.28	73.62	205.16	117.20	0.45
ALP1	0.0343966	0.446	0.499	-0.039	0.50	131.64	83.40	235.62	78.82	0.8
2Q1	0.0357064	0.398	0.435	-0.239	0.49	4.08	108.85	265.49	107.52	0.84
Q1	0.0372185	0.222	0.388	0.038	0.40	161.95	119.29	266.08	146.37	0.33
O1	0.0387307	0.705	0.570	-0.248	0.50	107.74	61.05	257.72	64.63	1.5
NO1	0.0402686	0.187	0.346	-0.106	0.30	27.89	117.62	26.57	132.54	0.29
K1	0.0417807	0.699	0.516	0.341	0.57	126.42	81.32	346.55	75.09	1.8
J1	0.0432929	0.396	0.482	-0.280	0.46	24.97	107.35	234.07	110.87	0.68
OO1	0.0448308	0.324	0.390	-0.151	0.32	68.77	94.16	151.76	107.38	0.69
UPS1	0.0463430	0.137	0.348	0.018	0.32	149.02	127.65	219.61	162.75	0.15
EPS2	0.0761773	0.702	0.694	-0.586	0.75	60.78	122.69	169.66	109.91	1
MU2	0.0776895	0.822	0.730	-0.196	0.87	66.60	91.37	139.27	69.72	1.3
*N2	0.0789992	2.814	0.902	0.112	1.00	67.48	19.93	198.72	16.92	9.7
*M2	0.0805114	9.565	0.881	-0.007	1.01	59.82	5.80	218.43	5.80	1.2e+002
L2	0.0820236	1.127	1.064	-0.533	1.19	62.47	96.59	264.45	88.48	1.1
*S2	0.0833333	1.413	0.842	-0.395	0.93	70.42	39.66	289.69	46.26	2.8
ETA2	0.0850736	0.321	0.589	-0.122	0.55	60.93	100.10	280.62	147.54	0.3
MO3	0.1192421	0.308	0.278	-0.263	0.28	104.13	120.17	294.10	133.06	1.2
M3	0.1207671	0.254	0.335	-0.008	0.27	110.54	79.70	359.81	95.61	0.57
MK3	0.1222921	0.401	0.331	-0.357	0.30	10.02	116.86	297.36	113.36	1.5
SK3	0.1251141	0.179	0.274	-0.135	0.27	97.17	109.86	3.53	148.35	0.43
MN4	0.1595106	0.214	0.274	-0.126	0.23	147.33	104.28	153.99	118.64	0.61
*M4	0.1610228	0.477	0.302	-0.333	0.35	108.43	83.48	153.53	77.36	2.5
SN4	0.1623326	0.181	0.262	-0.008	0.24	95.45	118.39	255.75	103.86	0.48
*MS4	0.1638447	0.460	0.316	-0.184	0.28	167.61	47.85	255.13	63.41	2.1
S4	0.1666667	0.134	0.278	-0.121	0.24	98.39	148.19	73.07	148.22	0.23
2MK5	0.2028035	0.053	0.136	-0.016	0.14	108.20	135.43	233.32	192.92	0.15
2SK5	0.2084474	0.084	0.150	0.021	0.15	115.65	127.06	105.00	152.83	0.32
*2MN6	0.2400221	0.481	0.232	-0.047	0.25	105.43	36.83	351.91	33.02	4.3
*M6	0.2415342	0.850	0.233	-0.000	0.25	106.16	17.84	28.88	16.57	13
*2MS6	0.2443561	0.420	0.208	-0.115	0.21	90.35	40.91	84.33	40.45	4.1
2SM6	0.2471781	0.078	0.162	-0.058	0.17	161.71	132.39	55.00	182.35	0.23
3MK7	0.2833149	0.110	0.124	-0.017	0.11	98.94	101.41	266.00	83.39	0.8
M8	0.3220456	0.034	0.069	0.016	0.06	4.16	127.07	288.81	163.54	0.24

total var= 163.4863 pred var= 61.4695
percent total var predicted/var original= 37.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.1 m

Mooring Number: 6991

File Name: 6991adc-alh.nc

nobs = 5036, ngood = 4954, 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= 2.46, x trend= 0

var(x)= 25.6269 var(xp)= 6.8246 var(xres)= 18.7077
percent var predicted/var original= 26.6 %

y0= -4.51, x trend= 0

var(y)= 74.217 var(yp)= 24.7315 var(yres)= 49.4042
percent var predicted/var original= 33.3 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*SSA	0.0002282	2.632	1.559	-0.381	1.12	112.84	25.48	135.59	36.31	2.9
*MSM	0.0013098	0.746	1.131	-0.184	0.76	96.36	61.78	348.53	133.25	0.43
MM	0.0015122	0.844	1.063	0.217	0.95	131.53	84.87	199.99	100.12	0.63
MSF	0.0028219	0.324	0.929	-0.075	0.75	105.60	81.75	215.74	178.35	0.12
MF	0.0030501	0.681	1.028	0.112	0.80	123.81	71.38	206.32	126.12	0.44
ALP1	0.0343966	0.116	0.264	-0.057	0.23	99.56	91.57	337.56	170.61	0.19
2Q1	0.0357064	0.381	0.339	0.093	0.27	82.33	47.65	35.87	69.23	1.3
*SIG1	0.0359087	0.498	0.350	-0.220	0.31	122.25	48.46	57.26	52.95	2
Q1	0.0372185	0.189	0.254	0.026	0.27	147.17	117.80	186.49	115.26	0.55
RHO1	0.0374209	0.239	0.266	-0.008	0.25	124.86	78.81	250.53	91.75	0.8
*O1	0.0387307	0.683	0.368	-0.104	0.31	73.24	25.11	283.38	32.64	3.4
TAU1	0.0389588	0.393	0.342	-0.016	0.30	117.79	52.02	129.77	69.18	1.3
BET1	0.0400404	0.336	0.279	-0.160	0.28	159.12	87.52	83.48	78.58	1.4
NO1	0.0402686	0.235	0.247	0.073	0.21	98.44	68.09	294.72	95.17	0.91
CHI1	0.0404710	0.223	0.265	0.020	0.29	27.86	98.97	222.71	95.59	0.71
P1	0.0415526	0.237	0.314	-0.117	0.29	80.58	84.38	197.66	106.69	0.57
*K1	0.0417807	0.678	0.409	-0.004	0.37	120.76	30.91	20.75	39.90	2.7
PHI1	0.0420089	0.320	0.327	-0.053	0.29	123.20	67.94	204.20	80.11	0.96
THE1	0.0430905	0.366	0.346	-0.124	0.26	79.93	50.92	211.69	75.62	1.1
J1	0.0432929	0.240	0.242	-0.054	0.29	16.78	121.73	226.41	87.08	0.99
SO1	0.0446027	0.307	0.319	-0.137	0.29	107.06	73.93	39.34	96.20	0.93
OO1	0.0448308	0.198	0.222	-0.011	0.19	46.39	73.08	166.75	89.85	0.8
UPS1	0.0463430	0.225	0.258	-0.109	0.21	84.78	81.08	279.04	100.10	0.76
OQ2	0.0759749	0.136	0.190	-0.052	0.20	162.45	125.73	247.42	152.69	0.51
EPS2	0.0761773	0.277	0.251	-0.165	0.21	103.53	62.13	292.80	80.90	1.2
2N2	0.0774871	0.151	0.196	0.056	0.22	157.36	118.95	217.86	122.49	0.59
MU2	0.0776895	0.186	0.182	-0.025	0.21	153.07	91.51	242.48	99.37	1
*N2	0.0789992	1.708	0.275	0.296	0.25	61.02	8.48	185.05	10.05	39
*NU2	0.0792016	0.505	0.253	0.268	0.22	55.67	42.33	190.11	40.11	4
*M2	0.0805114	6.808	0.256	1.727	0.24	64.74	2.11	216.44	2.43	7.1e+002
MKS2	0.0807396	0.237	0.191	-0.013	0.20	35.29	60.06	285.44	60.72	1.5
LDA2	0.0818212	0.210	0.210	-0.122	0.21	87.61	75.34	250.24	97.17	1
*L2	0.0820236	0.377	0.261	0.231	0.30	170.74	76.05	359.59	74.85	2.1
*S2	0.0833333	1.123	0.243	0.344	0.25	60.64	14.43	247.88	16.97	21
*K2	0.0835615	0.474	0.235	-0.074	0.17	81.52	26.34	254.50	33.28	4.1
MSN2	0.0848455	0.282	0.225	-0.154	0.20	114.04	71.09	11.01	83.47	1.6
ETA2	0.0850736	0.085	0.146	0.026	0.17	28.48	121.50	228.70	164.09	0.33
*MO3	0.1192421	0.191	0.116	-0.088	0.10	174.40	47.49	149.52	47.44	2.7
M3	0.1207671	0.089	0.097	0.013	0.09	78.14	83.14	260.23	93.99	0.83
SO3	0.1220640	0.123	0.098	0.008	0.09	105.38	60.62	192.75	54.91	1.6
MK3	0.1222921	0.085	0.102	-0.014	0.09	92.14	89.30	13.78	85.72	0.7
SK3	0.1251141	0.082	0.096	0.010	0.10	76.21	70.07	178.19	82.73	0.73
MN4	0.1595106	0.086	0.091	0.020	0.08	85.33	83.09	91.54	80.69	0.9
*M4	0.1610228	0.207	0.123	-0.029	0.09	101.23	32.86	96.22	33.86	2.8
SN4	0.1623326	0.080	0.088	-0.057	0.08	49.79	106.46	204.11	112.18	0.83
*MS4	0.1638447	0.163	0.094	0.055	0.09	65.40	50.74	134.25	49.45	3
MK4	0.1640729	0.067	0.074	0.031	0.08	68.76	101.49	59.03	92.97	0.82
S4	0.1666667	0.083	0.075	-0.043	0.08	113.40	92.04	135.76	87.35	1.2
SK4	0.1668948	0.037	0.065	0.011	0.06	71.78	123.45	206.39	138.03	0.32

2MK5	0.2028035	0.078	0.071	-0.025	0.07	26.78	67.31	209.98	60.08	1.2
2SK5	0.2084474	0.040	0.054	0.007	0.05	89.91	93.90	179.27	113.52	0.55
*2MN6	0.2400221	0.503	0.106	0.010	0.07	99.51	9.06	336.94	13.49	22
*M6	0.2415342	0.767	0.114	-0.024	0.07	94.03	5.15	9.81	8.66	45
*2MS6	0.2443561	0.342	0.122	-0.021	0.08	97.47	12.74	64.42	17.72	7.9
2MK6	0.2445843	0.078	0.079	-0.014	0.07	132.10	56.86	93.45	76.59	0.97
2SM6	0.2471781	0.099	0.101	-0.020	0.07	92.62	44.23	150.66	82.20	0.97
MSK6	0.2474062	0.017	0.062	0.011	0.05	102.63	77.79	27.89	226.51	0.077
3MK7	0.2833149	0.022	0.047	0.008	0.04	143.63	116.37	229.89	169.73	0.22
M8	0.3220456	0.056	0.051	0.005	0.04	128.98	56.99	51.07	57.50	1.2

total var= 99.8438 pred var= 31.5562
percent total var predicted/var original= 31.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.2 m

Mooring Number: 7101

File Name: 7101adc-alh.nc

nobs = 3698, ngood = 3643, 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= -0.835, x trend= 0

var(x)= 50.674 var(xp)= 16.3219 var(xres)= 34.0468
percent var predicted/var original= 32.2 %

y0= -0.252, x trend= 0

var(y)= 98.8756 var(yp)= 30.4567 var(yres)= 68.3155
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	3.057	2.923	0.596	1.68	114.84	42.04	317.85	62.45	1.1
MSF	0.0028219	0.570	2.310	0.072	1.25	6.38	131.59	23.77	175.48	0.061
ALP1	0.0343966	0.276	0.441	0.069	0.41	46.08	101.34	258.77	146.30	0.39
2Q1	0.0357064	0.323	0.480	-0.087	0.47	86.17	78.40	82.60	121.72	0.45
Q1	0.0372185	0.385	0.475	0.081	0.48	157.91	103.67	228.36	94.66	0.66
O1	0.0387307	0.240	0.390	0.111	0.39	178.89	130.51	39.59	125.84	0.38
NO1	0.0402686	0.154	0.307	0.040	0.35	109.33	114.37	1.18	174.21	0.25
K1	0.0417807	0.633	0.644	-0.043	0.48	88.70	56.29	356.02	72.30	0.96
J1	0.0432929	0.129	0.467	0.017	0.43	47.10	112.01	282.64	192.24	0.076
OO1	0.0448308	0.456	0.426	-0.220	0.36	83.77	64.80	103.69	73.89	1.1
UPS1	0.0463430	0.280	0.334	-0.115	0.35	54.30	84.69	48.99	114.44	0.7
EPS2	0.0761773	0.276	0.681	0.059	0.61	112.95	128.91	347.15	139.86	0.16
MU2	0.0776895	0.333	0.634	-0.176	0.65	59.08	85.29	290.85	157.14	0.28
*N2	0.0789992	2.320	0.786	-0.161	1.06	57.55	24.32	194.96	20.60	8.7
*M2	0.0805114	9.574	0.833	0.369	1.01	53.52	4.98	222.74	4.75	1.3e+002
L2	0.0820236	0.771	0.841	0.008	0.57	24.61	44.43	208.38	88.94	0.84
*S2	0.0833333	1.281	0.845	-0.051	0.76	43.47	36.74	269.64	40.99	2.3
ETA2	0.0850736	0.193	0.538	-0.146	0.47	104.46	127.72	153.49	158.64	0.13
MO3	0.1192421	0.306	0.230	-0.090	0.28	83.16	63.07	230.57	62.33	1.8
M3	0.1207671	0.285	0.273	-0.092	0.26	88.94	67.97	7.48	77.05	1.1
MK3	0.1222921	0.141	0.215	0.018	0.23	124.96	117.97	142.67	131.54	0.43
SK3	0.1251141	0.176	0.222	-0.028	0.21	123.85	84.49	289.74	110.06	0.63
MN4	0.1595106	0.407	0.332	-0.019	0.34	136.74	60.96	113.32	64.95	1.5
*M4	0.1610228	0.613	0.357	-0.152	0.37	91.43	41.96	142.53	37.95	2.9
SN4	0.1623326	0.253	0.266	-0.133	0.30	57.25	106.46	221.75	107.50	0.9
MS4	0.1638447	0.276	0.281	-0.200	0.34	117.91	101.56	217.10	105.79	0.97
S4	0.1666667	0.245	0.242	-0.041	0.29	80.09	113.12	113.75	99.16	1
2MK5	0.2028035	0.147	0.185	-0.128	0.18	154.61	124.16	142.62	135.83	0.63
2SK5	0.2084474	0.051	0.142	-0.006	0.13	9.19	147.55	119.13	162.99	0.13
*2MN6	0.2400221	0.534	0.211	0.028	0.21	98.43	22.39	333.62	25.20	6.4
*M6	0.2415342	0.878	0.224	0.088	0.22	89.73	14.27	19.43	14.36	15
2MS6	0.2443561	0.262	0.198	-0.029	0.20	83.97	49.91	60.24	51.42	1.8
2SM6	0.2471781	0.158	0.185	-0.022	0.17	98.87	90.35	152.85	82.77	0.73
3MK7	0.2833149	0.076	0.115	-0.027	0.11	118.56	97.04	217.70	122.88	0.44
*M8	0.3220456	0.133	0.087	-0.105	0.10	6.60	111.43	284.45	111.86	2.3

total var= 149.5496 pred var= 46.7786
percent total var predicted/var original= 31.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 5.2 m

Mooring Number: 7191

File Name: 7191adc-alh.nc

nobs = 1730, ngood = 1726, 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= -0.261, x trend= 0

var(x)= 40.7971 var(xp)= 3.7736 var(xres)= 37.038
percent var predicted/var original= 9.2 %

y0= 0.926, x trend= 0

var(y)= 121.7545 var(yp)= 37.5064 var(yres)= 84.4949
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	2.471	2.647	0.219	2.29	109.14	63.84	40.98	74.92	0.87
MSF	0.0028219	1.562	2.166	-0.266	2.03	133.24	88.02	340.21	110.87	0.52
ALP1	0.0343966	0.896	0.691	-0.156	0.69	128.83	52.04	117.75	56.65	1.7
2Q1	0.0357064	0.442	0.504	-0.209	0.52	158.27	112.13	14.58	97.73	0.77
Q1	0.0372185	0.701	0.661	-0.280	0.49	122.70	55.11	304.77	80.47	1.1
O1	0.0387307	0.490	0.536	0.225	0.52	24.66	112.53	329.25	87.78	0.83
NO1	0.0402686	0.637	0.657	-0.199	0.44	87.29	42.23	230.80	70.34	0.94
*K1	0.0417807	0.745	0.487	-0.172	0.66	16.81	80.25	271.72	52.42	2.3
J1	0.0432929	0.773	0.719	-0.307	0.53	114.93	45.69	325.77	83.45	1.2
OO1	0.0448308	0.318	0.441	-0.171	0.36	119.26	73.39	342.83	131.16	0.52
UPS1	0.0463430	0.463	0.496	-0.256	0.37	94.51	66.14	41.00	121.89	0.87
EPS2	0.0761773	0.219	0.603	-0.032	0.55	136.47	121.74	204.66	180.71	0.13
MU2	0.0776895	0.446	0.598	-0.243	0.64	62.13	110.43	156.14	124.93	0.56
*N2	0.0789992	2.335	0.844	-0.014	0.78	64.22	20.14	197.03	21.80	7.7
*M2	0.0805114	8.450	0.887	0.418	0.79	74.62	5.02	220.01	5.91	91
L2	0.0820236	0.549	0.696	-0.067	0.61	117.12	63.42	241.23	95.51	0.62
*S2	0.0833333	1.678	0.823	-0.161	0.72	80.36	24.47	252.35	30.12	4.2
ETA2	0.0850736	0.344	0.457	-0.072	0.49	34.59	106.92	94.30	125.83	0.57
*MO3	0.1192421	0.311	0.179	-0.025	0.18	130.99	42.08	342.57	40.98	3
M3	0.1207671	0.108	0.160	-0.008	0.16	85.74	130.65	338.31	138.10	0.46
*MK3	0.1222921	0.231	0.157	-0.036	0.17	116.07	64.89	310.07	62.73	2.2
SK3	0.1251141	0.124	0.157	-0.040	0.15	98.68	116.34	26.13	104.61	0.62
*MN4	0.1595106	0.422	0.177	-0.148	0.16	132.77	33.93	170.60	38.17	5.7
*M4	0.1610228	0.255	0.157	0.114	0.18	156.47	65.26	182.28	60.06	2.6
SN4	0.1623326	0.115	0.160	0.008	0.14	151.18	103.60	249.12	98.53	0.52
*MS4	0.1638447	0.342	0.180	0.011	0.21	155.76	40.26	213.84	30.48	3.6
S4	0.1666667	0.219	0.162	-0.047	0.17	49.31	50.93	117.04	52.71	1.8
2MK5	0.2028035	0.065	0.098	0.050	0.10	60.48	112.83	90.98	136.40	0.44
2SK5	0.2084474	0.146	0.116	-0.020	0.11	122.75	57.64	50.24	53.48	1.6
*2MN6	0.2400221	0.569	0.199	0.073	0.14	110.61	14.52	10.10	18.72	8.2
*M6	0.2415342	0.839	0.186	-0.052	0.14	115.08	9.15	21.61	13.46	20
*2MS6	0.2443561	0.398	0.197	0.056	0.14	103.63	17.84	53.30	29.42	4.1
2SM6	0.2471781	0.141	0.155	-0.064	0.14	121.44	69.55	109.45	91.81	0.82
3MK7	0.2833149	0.063	0.081	-0.006	0.08	3.03	94.45	85.96	92.70	0.6
M8	0.3220456	0.103	0.087	-0.062	0.08	142.17	71.64	125.40	72.26	1.4

total var= 162.5516 pred var= 41.2801
percent total var predicted/var original= 25.4 %