

Tidal Analysis of Current at LT-B

ADCP Observations, 17.2 m

Mooring Number: 5091

File Name: 5091adc-alh.nc

nobs = 3671, ngood = 3671, 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= 0.806, x trend= 0

var(x)= 26.1424 var(xp)= 5.579 var(xres)= 20.5588
percent var predicted/var original= 21.3 %

y0= -3.09, x trend= 0

var(y)= 52.6401 var(yp)= 17.9781 var(yres)= 34.6241
percent var predicted/var original= 34.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.808	1.187	0.277	1.15	149.11	112.47	144.07	127.52	0.46
MSF	0.0028219	1.038	1.199	-0.719	1.16	117.63	94.07	114.91	104.63	0.75
ALP1	0.0343966	0.530	0.412	0.095	0.51	137.40	69.04	257.17	64.12	1.7
2Q1	0.0357064	0.400	0.429	-0.119	0.43	106.43	90.01	305.48	117.57	0.87
Q1	0.0372185	0.177	0.405	0.045	0.35	89.02	105.32	244.49	174.53	0.19
O1	0.0387307	0.477	0.440	-0.333	0.45	82.51	103.28	268.38	112.53	1.2
NO1	0.0402686	0.192	0.328	-0.171	0.29	4.20	138.17	224.85	150.74	0.34
*K1	0.0417807	0.922	0.471	-0.056	0.59	3.95	34.96	271.20	33.46	3.8
J1	0.0432929	0.512	0.478	-0.226	0.46	92.67	84.16	253.25	97.42	1.1
OO1	0.0448308	0.461	0.659	-0.439	0.55	34.67	136.61	89.30	142.26	0.49
UPS1	0.0463430	0.521	0.594	-0.247	0.66	152.22	111.14	70.52	117.61	0.77
EPS2	0.0761773	0.270	0.200	0.047	0.22	152.61	60.82	146.78	63.21	1.8
MU2	0.0776895	0.194	0.199	0.018	0.20	162.43	79.67	208.00	76.70	0.96
*N2	0.0789992	1.191	0.217	0.529	0.24	68.68	15.16	177.09	15.34	30
*M2	0.0805114	6.064	0.262	1.961	0.27	65.81	2.38	208.82	2.62	5.3e+002
L2	0.0820236	0.309	0.232	-0.089	0.26	34.11	68.23	257.18	65.11	1.8
*S2	0.0833333	1.085	0.241	0.244	0.25	66.32	14.25	243.96	15.96	20
ETA2	0.0850736	0.244	0.311	0.053	0.27	102.77	84.77	292.11	101.55	0.62
MO3	0.1192421	0.125	0.133	0.036	0.13	79.12	77.33	24.52	98.22	0.88
M3	0.1207671	0.094	0.098	-0.048	0.10	124.49	93.49	147.09	94.01	0.92
*MK3	0.1222921	0.188	0.132	-0.121	0.11	104.36	73.66	324.27	82.60	2
SK3	0.1251141	0.087	0.102	-0.036	0.13	167.94	106.20	82.77	121.06	0.72
MN4	0.1595106	0.059	0.065	-0.003	0.07	63.28	98.38	97.45	78.86	0.82
*M4	0.1610228	0.206	0.080	-0.004	0.09	78.28	26.58	89.74	22.40	6.5
SN4	0.1623326	0.025	0.062	-0.013	0.06	155.69	118.51	152.81	180.65	0.16
MS4	0.1638447	0.088	0.077	0.024	0.08	74.73	84.28	157.66	61.77	1.3
S4	0.1666667	0.077	0.071	-0.040	0.07	31.94	79.80	348.18	86.80	1.2
2MK5	0.2028035	0.102	0.093	-0.004	0.08	80.94	53.94	210.29	64.39	1.2
2SK5	0.2084474	0.064	0.072	-0.032	0.07	115.44	100.52	161.44	115.52	0.79
*2MN6	0.2400221	0.374	0.146	0.033	0.07	94.51	10.46	324.65	25.96	6.6
*M6	0.2415342	0.799	0.146	0.011	0.07	98.80	5.59	6.02	11.80	30
*2MS6	0.2443561	0.265	0.159	-0.033	0.08	97.71	16.19	62.13	33.88	2.8
2SM6	0.2471781	0.079	0.121	0.040	0.08	83.86	53.91	132.29	144.32	0.43
3MK7	0.2833149	0.027	0.058	-0.013	0.05	70.59	99.62	43.11	159.56	0.21
M8	0.3220456	0.033	0.038	-0.002	0.04	130.32	92.68	93.70	93.92	0.78

total var= 78.7825 pred var= 23.557
percent total var predicted/var original= 29.9 %

Tidal Analysis of Current at LT-B

ADCP Observations, 16.9 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= 0.188, x trend= 0

var(x)= 52.9716 var(xp)= 12.586 var(xres)= 40.2233
percent var predicted/var original= 23.8 %

y0= -0.382, x trend= 0

var(y)= 41.3966 var(yp)= 10.5172 var(yres)= 30.7251
percent var predicted/var original= 25.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.633	1.959	0.237	1.79	140.86	97.32	318.05	88.26	0.69
MSF	0.0028219	2.129	2.060	-0.192	2.02	152.73	81.75	131.21	77.29	1.1
ALP1	0.0343966	1.237	0.920	-0.616	0.85	162.60	57.44	91.45	67.41	1.8
2Q1	0.0357064	0.602	0.744	-0.097	0.65	158.42	91.96	234.39	121.94	0.66
Q1	0.0372185	0.471	0.833	-0.146	0.79	136.16	101.63	28.98	130.21	0.32
O1	0.0387307	0.704	0.763	0.108	0.77	121.62	91.28	295.45	107.14	0.85
NO1	0.0402686	0.500	0.517	-0.245	0.54	84.12	118.61	323.84	97.28	0.93
*K1	0.0417807	1.913	0.860	-1.282	0.79	154.58	51.14	204.67	59.76	4.9
*J1	0.0432929	1.206	0.818	-0.709	0.76	143.70	87.95	193.74	84.20	2.2
OO1	0.0448308	1.514	1.304	-0.421	1.01	164.67	54.24	298.59	60.77	1.3
UPS1	0.0463430	0.329	0.967	0.106	0.91	59.01	137.49	48.77	165.99	0.12
EPS2	0.0761773	0.595	0.913	-0.342	0.94	158.26	105.06	274.52	153.56	0.43
MU2	0.0776895	0.995	1.098	-0.394	0.83	165.69	59.50	224.90	83.21	0.82
N2	0.0789992	1.395	1.028	0.918	1.11	121.39	83.80	204.88	76.80	1.8
*M2	0.0805114	5.083	1.183	3.201	1.17	37.55	30.67	177.91	28.67	18
L2	0.0820236	1.114	1.367	0.147	1.07	8.33	61.97	217.32	86.63	0.66
S2	0.0833333	1.381	1.019	-0.325	1.30	89.89	72.26	265.00	62.05	1.8
ETA2	0.0850736	0.669	1.336	-0.108	1.23	168.76	100.13	255.12	143.67	0.25
MO3	0.1192421	0.203	0.287	-0.079	0.27	162.47	77.65	35.71	114.40	0.5
M3	0.1207671	0.339	0.305	-0.194	0.24	173.50	69.21	0.48	96.84	1.2
MK3	0.1222921	0.412	0.295	-0.120	0.29	62.90	66.12	81.30	54.19	2
SK3	0.1251141	0.201	0.278	-0.053	0.24	16.67	84.37	356.56	129.74	0.52
*MN4	0.1595106	0.494	0.262	-0.172	0.31	61.07	57.74	77.22	47.96	3.6
*M4	0.1610228	0.337	0.224	-0.016	0.26	62.05	52.81	102.19	48.44	2.3
SN4	0.1623326	0.240	0.248	-0.131	0.24	19.40	98.76	75.09	110.77	0.94
MS4	0.1638447	0.141	0.252	-0.037	0.22	72.93	122.24	101.65	142.52	0.31
S4	0.1666667	0.178	0.240	-0.095	0.23	98.70	133.87	131.10	116.46	0.55
2MK5	0.2028035	0.139	0.164	-0.021	0.17	110.99	100.13	252.97	99.01	0.72
2SK5	0.2084474	0.145	0.167	-0.103	0.17	127.74	122.07	186.91	116.30	0.75
*2MN6	0.2400221	0.441	0.189	0.017	0.16	113.62	26.57	323.22	24.72	5.4
*M6	0.2415342	0.901	0.185	-0.080	0.17	102.44	10.10	13.21	10.87	24
*2MS6	0.2443561	0.287	0.184	0.036	0.14	99.65	33.52	47.19	43.02	2.4
2SM6	0.2471781	0.134	0.165	-0.125	0.15	16.28	121.78	254.52	121.66	0.66
3MK7	0.2833149	0.085	0.095	-0.022	0.10	41.39	100.58	73.69	97.92	0.8
M8	0.3220456	0.066	0.062	0.024	0.07	146.84	71.67	97.44	79.96	1.1

total var= 94.3682 pred var= 23.1032
percent total var predicted/var original= 24.5 %

Tidal Analysis of Current at LT-B

ADCP Observations, 16.7 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= 0.82, x trend= 0

var(x)= 63.2358 var(xp)= 28.2843 var(xres)= 34.9472
percent var predicted/var original= 44.7 %

y0= 0.205, x trend= 0

var(y)= 28.7604 var(yp)= 11.7293 var(yres)= 17.0712
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	0.469	0.821	-0.074	0.73	135.40	101.28	214.15	140.20	0.33
MSF	0.0028219	0.581	0.783	0.375	0.71	100.83	106.58	164.16	145.38	0.55
ALP1	0.0343966	0.402	0.467	-0.248	0.42	157.67	81.00	317.57	98.17	0.74
2Q1	0.0357064	0.427	0.462	-0.220	0.41	148.62	85.56	315.61	104.49	0.85
Q1	0.0372185	0.232	0.421	-0.002	0.37	69.38	122.23	349.19	126.27	0.3
*O1	0.0387307	0.905	0.476	-0.426	0.51	133.84	44.00	279.92	48.62	3.6
NO1	0.0402686	0.265	0.307	-0.108	0.31	126.61	98.97	143.95	98.87	0.74
*K1	0.0417807	1.841	0.372	-1.168	0.48	118.47	32.82	343.67	25.97	24
J1	0.0432929	0.464	0.471	-0.163	0.33	165.53	56.34	6.31	79.09	0.97
OO1	0.0448308	0.858	0.752	-0.245	0.51	1.97	40.31	16.59	68.74	1.3
UPS1	0.0463430	0.792	0.806	-0.172	0.51	172.18	45.44	4.07	67.49	0.96
EPS2	0.0761773	0.815	1.097	-0.614	0.99	169.39	81.78	95.33	138.66	0.55
MU2	0.0776895	0.933	1.193	-0.158	1.01	154.51	52.39	154.43	98.66	0.61
N2	0.0789992	1.453	1.202	0.080	1.27	125.99	69.40	224.86	58.44	1.5
*M2	0.0805114	7.543	1.799	0.855	1.34	150.41	9.76	277.52	12.13	18
*L2	0.0820236	2.495	1.643	-1.555	1.23	167.08	54.25	263.05	76.93	2.3
*S2	0.0833333	1.616	1.035	-0.938	1.31	105.35	89.51	283.44	60.23	2.4
ETA2	0.0850736	0.869	1.459	-0.452	1.45	75.25	154.75	18.22	131.89	0.35
MO3	0.1192421	0.367	0.380	-0.108	0.25	9.70	43.12	113.57	62.25	0.93
M3	0.1207671	0.279	0.238	-0.109	0.19	4.28	45.69	250.83	75.93	1.4
MK3	0.1222921	0.338	0.302	-0.015	0.18	172.41	37.71	336.75	65.01	1.3
SK3	0.1251141	0.265	0.283	-0.184	0.25	179.18	93.55	186.98	144.86	0.88
MN4	0.1595106	0.460	0.454	-0.115	0.25	9.01	33.44	47.98	67.89	1
*M4	0.1610228	0.865	0.492	-0.223	0.30	23.48	23.11	108.87	32.98	3.1
*SN4	0.1623326	0.772	0.504	-0.103	0.29	7.49	21.11	88.51	42.86	2.3
MS4	0.1638447	0.642	0.476	-0.082	0.28	16.87	25.87	81.85	55.13	1.8
S4	0.1666667	0.148	0.316	-0.059	0.24	147.43	70.08	213.40	150.36	0.22
2MK5	0.2028035	0.106	0.168	-0.024	0.13	160.83	87.65	324.89	161.85	0.4
2SK5	0.2084474	0.079	0.182	0.032	0.13	45.04	97.66	3.54	147.32	0.19
*2MN6	0.2400221	0.325	0.178	-0.071	0.18	96.75	43.99	347.54	42.70	3.3
*M6	0.2415342	0.928	0.211	-0.001	0.22	103.03	14.53	20.16	11.33	19
*2MS6	0.2443561	0.335	0.171	-0.088	0.20	76.59	43.38	86.49	40.91	3.8
2SM6	0.2471781	0.114	0.156	-0.064	0.18	6.99	107.96	264.51	131.37	0.53
3MK7	0.2833149	0.095	0.116	-0.035	0.11	67.05	97.64	128.35	96.31	0.68
M8	0.3220456	0.112	0.084	0.040	0.08	133.82	56.55	88.55	58.34	1.8

total var= 91.9961 pred var= 40.0135
percent total var predicted/var original= 43.5 %

Tidal Analysis of Current at LT-B
 ADCP Observations, 16.8 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= -0.821, x trend= 0

var(x)= 34.7758 var(xp)= 5.9231 var(xres)= 28.8548
 percent var predicted/var original= 17.0 %

y0= -0.117, x trend= 0

var(y)= 42.5617 var(yp)= 18.1511 var(yres)= 24.4235
 percent var predicted/var original= 42.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.838	1.018	-0.236	0.89	138.99	89.00	272.28	97.56	0.68
MSF	0.0028219	0.693	0.977	-0.084	0.93	158.97	98.01	82.91	131.76	0.5
*ALP1	0.0343966	0.809	0.569	-0.195	0.62	143.82	56.85	204.31	54.46	2
2Q1	0.0357064	0.255	0.473	0.072	0.50	142.26	120.87	192.95	144.10	0.29
Q1	0.0372185	0.616	0.500	-0.238	0.63	117.49	69.43	221.75	77.06	1.5
O1	0.0387307	0.680	0.588	0.178	0.57	151.82	59.73	25.72	66.29	1.3
*NO1	0.0402686	0.651	0.458	-0.230	0.48	138.15	67.89	209.46	56.37	2
K1	0.0417807	0.692	0.513	-0.181	0.47	35.30	53.66	260.40	56.44	1.8
J1	0.0432929	0.381	0.443	-0.197	0.49	3.69	98.44	74.06	119.59	0.74
OO1	0.0448308	0.333	0.625	0.192	0.56	123.20	122.74	142.11	136.80	0.28
UPS1	0.0463430	0.716	0.699	-0.472	0.71	110.87	112.37	33.16	101.68	1
EPS2	0.0761773	0.256	0.191	-0.201	0.19	10.95	102.35	141.08	99.50	1.8
MU2	0.0776895	0.327	0.282	-0.011	0.21	16.67	40.42	98.81	56.66	1.3
*N2	0.0789992	1.686	0.285	0.249	0.26	56.31	9.87	155.96	9.17	35
*M2	0.0805114	5.708	0.230	2.351	0.25	68.62	3.11	203.38	3.57	6.1e+002
*L2	0.0820236	0.659	0.269	-0.048	0.28	48.32	29.12	283.02	23.71	6
*S2	0.0833333	1.200	0.282	0.109	0.29	72.89	13.70	238.41	11.41	18
ETA2	0.0850736	0.251	0.285	-0.003	0.29	176.72	75.07	47.66	94.24	0.77
MO3	0.1192421	0.130	0.117	-0.029	0.10	34.90	66.32	307.08	66.25	1.2
M3	0.1207671	0.094	0.077	-0.029	0.08	15.64	75.62	163.89	75.11	1.5
*MK3	0.1222921	0.191	0.113	-0.082	0.09	129.70	47.66	241.74	49.13	2.9
*SK3	0.1251141	0.171	0.107	-0.105	0.10	105.15	62.46	78.45	70.82	2.6
*MN4	0.1595106	0.158	0.082	-0.041	0.08	100.32	34.29	34.51	38.11	3.7
*M4	0.1610228	0.272	0.092	-0.007	0.08	102.66	18.80	97.12	18.43	8.8
*SN4	0.1623326	0.104	0.073	-0.046	0.07	95.04	59.78	194.65	66.31	2
MS4	0.1638447	0.077	0.072	0.012	0.07	16.53	67.78	58.66	77.89	1.1
S4	0.1666667	0.045	0.071	-0.011	0.06	110.74	112.53	234.31	117.14	0.41
2MK5	0.2028035	0.062	0.061	-0.007	0.06	164.36	65.69	262.93	80.29	1
2SK5	0.2084474	0.058	0.062	0.049	0.06	147.19	113.43	163.89	120.46	0.86
*2MN6	0.2400221	0.450	0.111	-0.030	0.08	111.36	9.32	319.51	13.83	16
*M6	0.2415342	0.681	0.124	-0.017	0.06	101.11	5.21	8.35	8.96	30
*2MS6	0.2443561	0.278	0.125	0.014	0.06	105.35	14.14	54.46	23.24	5
2SM6	0.2471781	0.047	0.087	-0.014	0.06	70.13	54.52	57.71	139.85	0.3
3MK7	0.2833149	0.059	0.045	-0.002	0.05	166.16	58.88	314.03	63.45	1.8
M8	0.3220456	0.027	0.028	0.011	0.03	138.28	98.26	84.20	87.68	0.95

total var= 77.3375 pred var= 24.0742
 percent total var predicted/var original= 31.1 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.0 m

Mooring Number: 5541

File Name: 5541adc-alh.nc

nobs = 2513, ngood = 2497, 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= 0.691, x trend= 0

var(x)= 39.7477 var(xp)= 12.1661 var(xres)= 27.657
percent var predicted/var original= 30.6 %

y0= -2.59, x trend= 0

var(y)= 55.3468 var(yp)= 17.2269 var(yres)= 38.1354
percent var predicted/var original= 31.1 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	2.248	1.537	-0.085	1.19	123.16	32.29	62.42	44.84	2.1
MSF	0.0028219	1.514	1.475	-0.391	1.13	116.88	51.13	54.23	66.45	1.1
ALP1	0.0343966	0.406	0.559	-0.220	0.64	82.59	126.84	246.66	141.25	0.53
2Q1	0.0357064	0.577	0.633	-0.204	0.74	179.46	107.49	291.42	138.64	0.83
Q1	0.0372185	1.129	0.799	-0.065	0.74	172.86	45.59	73.87	63.71	2
O1	0.0387307	0.513	0.665	0.057	0.65	155.63	91.50	352.92	105.56	0.59
NO1	0.0402686	0.687	0.717	0.125	0.69	106.71	85.57	184.53	82.35	0.92
*K1	0.0417807	1.229	0.695	-1.061	0.61	7.85	114.47	333.20	112.15	3.1
J1	0.0432929	0.301	0.598	-0.122	0.53	68.18	141.82	255.26	162.72	0.25
OO1	0.0448308	0.940	0.959	-0.063	0.92	16.93	73.01	25.06	77.39	0.96
UPS1	0.0463430	0.513	0.889	-0.092	0.79	114.26	115.06	143.81	135.49	0.33
EPS2	0.0761773	0.310	0.367	-0.204	0.38	10.17	98.85	109.78	145.29	0.72
*MU2	0.0776895	0.830	0.506	-0.254	0.45	165.54	44.92	200.89	54.70	2.7
*N2	0.0789992	1.240	0.473	0.998	0.52	144.93	72.91	253.91	77.50	6.9
*M2	0.0805114	5.665	0.540	2.714	0.56	53.19	8.37	196.25	8.16	1.1e+002
*L2	0.0820236	0.825	0.499	-0.435	0.45	46.86	60.01	283.65	62.06	2.7
*S2	0.0833333	1.740	0.549	0.332	0.59	56.34	20.94	239.11	20.43	10
ETA2	0.0850736	0.229	0.533	-0.141	0.52	168.39	111.28	156.56	160.10	0.18
MO3	0.1192421	0.064	0.212	0.018	0.21	107.78	131.89	267.87	184.13	0.093
M3	0.1207671	0.062	0.193	0.007	0.19	22.29	131.98	36.69	183.50	0.1
MK3	0.1222921	0.170	0.260	-0.007	0.24	37.77	105.96	144.75	123.13	0.43
SK3	0.1251141	0.207	0.255	-0.039	0.23	93.31	97.51	177.51	98.08	0.66
*MN4	0.1595106	0.239	0.157	-0.118	0.13	84.09	62.54	57.85	57.41	2.3
*M4	0.1610228	0.251	0.132	-0.022	0.16	66.60	40.64	121.23	45.98	3.6
*SN4	0.1623326	0.247	0.148	-0.056	0.14	14.70	44.03	226.28	47.70	2.8
*MS4	0.1638447	0.214	0.149	-0.032	0.16	97.83	51.07	157.19	48.51	2.1
S4	0.1666667	0.151	0.143	-0.037	0.14	28.24	80.06	323.11	82.92	1.1
2MK5	0.2028035	0.081	0.102	-0.058	0.09	43.80	108.00	56.06	127.50	0.64
2SK5	0.2084474	0.077	0.106	0.062	0.11	45.10	112.32	254.97	106.71	0.53
*2MN6	0.2400221	0.375	0.177	-0.007	0.07	91.27	13.74	343.16	26.01	4.5
*M6	0.2415342	0.731	0.194	0.042	0.08	94.00	7.35	8.22	14.11	14
2MS6	0.2443561	0.259	0.188	-0.001	0.09	91.53	18.12	63.27	45.15	1.9
2SM6	0.2471781	0.097	0.111	0.022	0.11	164.43	118.97	232.78	113.43	0.77
3MK7	0.2833149	0.077	0.081	0.039	0.08	46.00	91.30	222.10	90.80	0.89
*M8	0.3220456	0.085	0.058	-0.018	0.05	104.08	40.33	89.22	56.41	2.1

total var= 95.0945 pred var= 29.393
percent total var predicted/var original= 30.9 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.0 m

Mooring Number: 5712

File Name: 5712adc-alh.nc

nobs = 3173, ngood = 3173, 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= 0.511, x trend= 0

var(x)= 70.6072 var(xp)= 35.4598 var(xres)= 35.2614
percent var predicted/var original= 50.2 %

y0= 0.484, x trend= 0

var(y)= 22.9683 var(yp)= 4.9455 var(yres)= 18.0473
percent var predicted/var original= 21.5 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	0.796	0.557	-0.053	0.76	101.47	72.77	70.19	49.40	2
MSF	0.0028219	0.291	0.524	-0.007	0.48	133.81	93.08	204.27	127.40	0.31
ALP1	0.0343966	0.421	0.520	-0.007	0.39	17.96	76.19	168.98	99.08	0.66
2Q1	0.0357064	0.247	0.413	-0.074	0.44	178.26	92.54	356.90	135.96	0.36
Q1	0.0372185	0.362	0.516	-0.087	0.43	179.41	89.95	14.19	147.98	0.49
O1	0.0387307	0.510	0.444	0.221	0.52	115.23	106.13	320.02	87.28	1.3
NO1	0.0402686	0.858	0.698	-0.209	0.60	158.50	50.68	175.26	58.76	1.5
*K1	0.0417807	1.272	0.533	-0.512	0.55	110.59	40.42	327.56	34.00	5.7
J1	0.0432929	0.275	0.421	-0.151	0.37	179.17	98.76	191.96	129.36	0.43
OO1	0.0448308	0.287	0.589	0.135	0.65	107.14	141.77	226.14	155.25	0.24
UPS1	0.0463430	0.193	0.594	0.059	0.51	106.15	151.75	150.19	198.01	0.11
EPS2	0.0761773	0.313	0.659	-0.065	0.72	85.27	164.41	95.75	145.35	0.23
MU2	0.0776895	0.508	0.832	-0.123	0.60	6.71	71.21	158.89	148.70	0.37
*N2	0.0789992	2.156	1.116	0.192	0.71	170.25	21.79	254.14	29.13	3.7
*M2	0.0805114	7.741	1.157	2.397	0.76	179.30	7.99	317.92	9.41	45
L2	0.0820236	0.430	0.743	0.064	0.66	104.31	135.50	336.50	124.80	0.34
S2	0.0833333	1.062	0.833	0.334	0.85	46.87	64.51	229.92	65.69	1.6
ETA2	0.0850736	0.862	1.145	-0.345	0.87	10.04	68.59	359.28	109.29	0.57
MO3	0.1192421	0.241	0.311	-0.162	0.27	105.27	125.08	276.77	100.23	0.6
M3	0.1207671	0.136	0.258	-0.115	0.23	61.45	111.54	185.21	146.48	0.28
*MK3	0.1222921	0.536	0.333	-0.236	0.27	13.68	45.84	156.59	56.74	2.6
SK3	0.1251141	0.141	0.259	-0.090	0.25	38.51	94.37	292.34	167.89	0.3
*MN4	0.1595106	0.490	0.292	-0.325	0.27	31.99	65.95	121.32	76.46	2.8
*M4	0.1610228	0.875	0.452	-0.430	0.27	23.15	26.80	179.97	38.13	3.7
SN4	0.1623326	0.368	0.441	-0.085	0.23	8.47	38.40	323.10	73.65	0.7
MS4	0.1638447	0.389	0.295	-0.087	0.36	48.15	49.59	156.71	62.27	1.7
S4	0.1666667	0.309	0.343	-0.064	0.31	35.84	54.94	20.98	77.17	0.81
2MK5	0.2028035	0.181	0.207	-0.080	0.16	142.38	70.28	128.87	94.59	0.77
2SK5	0.2084474	0.179	0.191	-0.085	0.19	44.53	74.66	334.37	88.20	0.88
*2MN6	0.2400221	0.518	0.138	0.117	0.19	73.30	22.97	308.52	17.38	14
*M6	0.2415342	0.875	0.134	0.210	0.23	85.72	14.61	10.00	10.26	42
*2MS6	0.2443561	0.258	0.163	-0.028	0.18	130.92	46.36	70.25	39.46	2.5
2SM6	0.2471781	0.055	0.146	-0.030	0.14	56.50	116.65	122.15	167.11	0.14
3MK7	0.2833149	0.040	0.107	0.009	0.09	56.60	117.77	5.53	169.32	0.14
M8	0.3220456	0.094	0.077	-0.060	0.06	170.39	73.77	2.55	91.19	1.5

total var= 93.5756 pred var= 40.4053
percent total var predicted/var original= 43.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 16.1 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= 0.157, x trend= 0

var(x)= 33.9021 var(xp)= 6.9809 var(xres)= 26.9196
percent var predicted/var original= 20.6 %

y0= -1.83, x trend= 0

var(y)= 61.59 var(yp)= 19.1581 var(yres)= 42.4184
percent var predicted/var original= 31.1 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.671	1.799	0.106	1.51	118.57	88.48	268.24	201.95	0.14
MSF	0.0028219	0.617	1.680	0.146	1.31	128.67	80.61	67.51	167.29	0.13
ALP1	0.0343966	0.116	0.277	-0.087	0.22	144.41	136.69	280.47	157.55	0.17
2Q1	0.0357064	0.255	0.289	-0.054	0.25	122.20	83.35	75.83	91.47	0.78
*Q1	0.0372185	0.503	0.324	-0.159	0.33	128.34	50.91	317.11	47.03	2.4
O1	0.0387307	0.358	0.278	0.144	0.30	163.73	82.87	56.52	68.64	1.7
NO1	0.0402686	0.560	0.473	-0.345	0.42	104.07	91.83	359.56	97.39	1.4
*K1	0.0417807	0.685	0.319	0.009	0.30	112.04	27.91	0.91	29.73	4.6
J1	0.0432929	0.367	0.310	-0.138	0.27	76.16	63.23	271.61	67.72	1.4
OO1	0.0448308	0.593	0.510	-0.320	0.49	81.02	73.76	293.21	77.90	1.4
UPS1	0.0463430	0.212	0.376	0.168	0.37	57.82	138.69	64.55	180.44	0.32
EPS2	0.0761773	0.191	0.195	-0.048	0.18	98.27	67.82	41.37	83.09	0.96
MU2	0.0776895	0.214	0.192	0.144	0.19	39.35	116.28	90.45	100.99	1.2
*N2	0.0789992	1.587	0.251	0.336	0.24	57.94	8.65	164.34	9.26	40
*M2	0.0805114	6.252	0.239	2.061	0.22	62.13	2.64	204.00	2.56	6.8e+002
*L2	0.0820236	0.568	0.227	-0.051	0.19	74.24	18.87	272.96	21.81	6.2
*S2	0.0833333	1.173	0.275	0.250	0.25	67.03	12.60	243.84	15.41	18
ETA2	0.0850736	0.181	0.217	-0.051	0.21	118.86	84.10	299.02	98.42	0.69
MO3	0.1192421	0.101	0.088	-0.022	0.10	119.39	67.40	237.16	60.96	1.3
M3	0.1207671	0.035	0.077	0.026	0.07	177.39	129.05	292.51	149.37	0.21
*MK3	0.1222921	0.130	0.085	-0.095	0.09	112.75	81.75	299.49	85.06	2.4
SK3	0.1251141	0.042	0.075	0.019	0.08	15.10	112.17	118.80	142.37	0.32
*MN4	0.1595106	0.132	0.074	0.065	0.07	67.45	49.90	105.64	52.39	3.2
*M4	0.1610228	0.276	0.086	-0.005	0.07	91.44	15.35	106.68	16.78	10
SN4	0.1623326	0.050	0.064	0.014	0.06	141.09	103.65	179.70	95.37	0.61
*MS4	0.1638447	0.146	0.085	-0.026	0.07	100.00	33.79	145.01	36.38	2.9
S4	0.1666667	0.082	0.079	-0.005	0.07	93.84	54.74	348.20	69.99	1.1
2MK5	0.2028035	0.046	0.053	0.013	0.06	176.95	103.40	279.51	95.68	0.78
2SK5	0.2084474	0.019	0.054	0.008	0.05	139.18	106.22	164.93	174.06	0.12
*2MN6	0.2400221	0.407	0.117	0.058	0.06	98.59	9.01	326.96	17.76	12
*M6	0.2415342	0.775	0.118	0.049	0.06	103.46	4.27	13.84	9.44	43
*2MS6	0.2443561	0.357	0.115	0.007	0.06	101.15	10.62	66.69	20.11	9.6
2SM6	0.2471781	0.030	0.084	0.001	0.06	89.48	52.68	104.77	169.08	0.13
3MK7	0.2833149	0.033	0.036	-0.003	0.04	34.79	90.46	135.91	87.31	0.84
M8	0.3220456	0.061	0.044	-0.002	0.04	106.14	44.17	90.25	41.41	1.9

total var= 95.4921 pred var= 26.139
percent total var predicted/var original= 27.4 %

Tidal Analysis of Current at LT-B
 ADCP Observations, 16.9 m
 Mooring Number: 6131
 File Name: 6131adc-alh.nc
 nobs = 2013, ngood = 2013, 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= 0.0419, x trend= 0

var(x)= 34.6485 var(xp)= 8.2485 var(xres)= 26.3279
 percent var predicted/var original= 23.8 %

y0= -1.52, x trend= 0

var(y)= 47.2556 var(yp)= 18.001 var(yres)= 29.4256
 percent var predicted/var original= 38.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.894	1.748	0.153	2.03	152.85	84.20	344.88	76.37	1.2
MSF	0.0028219	0.978	1.556	0.168	1.51	122.48	93.80	131.25	132.89	0.4
ALP1	0.0343966	0.376	0.649	-0.152	0.59	172.20	76.04	349.04	161.51	0.34
2Q1	0.0357064	0.549	0.538	-0.123	0.58	143.42	84.63	21.97	90.27	1
Q1	0.0372185	0.738	0.696	-0.266	0.75	121.35	86.81	309.31	85.46	1.1
O1	0.0387307	0.588	0.739	-0.135	0.76	122.00	103.58	326.24	96.14	0.63
NO1	0.0402686	1.001	1.358	-0.953	1.41	25.23	110.28	20.95	167.36	0.54
K1	0.0417807	0.820	0.760	-0.352	0.65	6.35	58.31	300.73	83.58	1.2
J1	0.0432929	0.239	0.605	-0.061	0.49	128.73	105.85	181.85	176.88	0.16
OO1	0.0448308	1.037	1.098	-0.783	1.07	107.20	122.73	238.45	102.19	0.89
UPS1	0.0463430	0.677	0.907	-0.295	0.79	91.29	135.05	65.58	101.26	0.56
EPS2	0.0761773	0.524	0.493	-0.180	0.38	137.75	73.87	317.35	66.93	1.1
MU2	0.0776895	0.439	0.482	-0.083	0.46	45.66	76.13	76.92	73.14	0.83
*N2	0.0789992	1.516	0.474	0.094	0.56	60.29	18.40	171.57	16.65	10
*M2	0.0805114	6.271	0.437	2.239	0.54	58.59	6.12	206.00	6.01	2.1e+002
L2	0.0820236	0.291	0.338	0.065	0.34	53.06	94.42	265.30	92.96	0.74
*S2	0.0833333	1.218	0.507	0.281	0.59	53.53	31.03	236.29	26.16	5.8
ETA2	0.0850736	0.324	0.386	-0.147	0.45	155.98	92.80	305.18	123.54	0.71
MO3	0.1192421	0.192	0.168	-0.094	0.19	1.71	92.17	90.86	92.97	1.3
M3	0.1207671	0.107	0.178	-0.086	0.16	24.90	118.81	261.35	138.50	0.36
MK3	0.1222921	0.104	0.183	-0.050	0.16	163.21	96.33	260.31	108.10	0.32
SK3	0.1251141	0.085	0.179	0.013	0.15	155.13	121.68	197.44	182.73	0.23
*MN4	0.1595106	0.215	0.148	-0.028	0.14	44.77	42.39	95.47	45.54	2.1
*M4	0.1610228	0.265	0.166	0.042	0.15	87.03	34.20	107.49	41.26	2.5
SN4	0.1623326	0.058	0.132	0.038	0.11	98.33	109.66	125.72	171.09	0.19
MS4	0.1638447	0.124	0.123	0.074	0.13	51.32	100.39	143.24	97.56	1
S4	0.1666667	0.063	0.105	0.022	0.12	40.56	110.35	60.33	175.58	0.36
2MK5	0.2028035	0.099	0.091	-0.022	0.10	91.49	81.64	275.73	78.27	1.2
2SK5	0.2084474	0.084	0.101	-0.061	0.09	28.99	106.47	87.86	126.34	0.68
*2MN6	0.2400221	0.311	0.157	0.004	0.07	94.53	15.95	318.52	30.12	3.9
*M6	0.2415342	0.878	0.186	-0.008	0.09	92.61	5.41	8.20	10.64	22
*2MS6	0.2443561	0.350	0.179	-0.027	0.08	88.63	13.67	62.79	29.58	3.8
2SM6	0.2471781	0.114	0.110	0.017	0.11	41.08	67.22	81.17	74.17	1.1
3MK7	0.2833149	0.075	0.072	-0.040	0.08	36.77	92.29	343.92	100.79	1.1
M8	0.3220456	0.059	0.050	0.042	0.06	93.26	113.39	179.68	97.21	1.4

total var= 81.9041 pred var= 26.2495
 percent total var predicted/var original= 32.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 16.9 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= 0.352, x trend= 0

var(x)= 54.4722 var(xp)= 19.3086 var(xres)= 35.3799
percent var predicted/var original= 35.4 %

y0= -0.652, x trend= 0

var(y)= 39.8898 var(yp)= 20.2804 var(yres)= 19.8745
percent var predicted/var original= 50.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	4.903	2.052	0.227	2.06	148.66	28.85	348.78	23.40	5.7
MSF	0.0028219	0.917	1.468	-0.111	1.45	143.14	114.81	317.58	136.85	0.39
ALP1	0.0343966	0.554	0.668	0.260	0.58	38.48	72.72	146.41	110.08	0.69
2Q1	0.0357064	0.849	0.684	-0.261	0.59	179.17	49.95	77.79	64.64	1.5
*Q1	0.0372185	0.963	0.603	-0.507	0.75	99.64	74.92	310.62	65.02	2.6
O1	0.0387307	0.830	0.722	-0.037	0.63	153.76	51.18	345.06	59.46	1.3
NO1	0.0402686	1.562	1.317	-0.999	1.46	50.43	99.86	349.31	82.15	1.4
K1	0.0417807	0.918	0.804	-0.260	0.72	26.04	49.30	303.01	62.49	1.3
J1	0.0432929	0.239	0.480	-0.203	0.55	147.42	98.30	341.69	162.03	0.25
OO1	0.0448308	1.350	1.062	-1.140	1.10	57.76	115.92	286.40	99.44	1.6
UPS1	0.0463430	0.616	0.757	-0.262	0.82	125.30	112.08	70.61	96.53	0.66
*EPS2	0.0761773	0.994	0.576	-0.505	0.48	161.46	41.62	311.11	51.29	3
MU2	0.0776895	0.730	0.565	-0.285	0.40	8.55	48.84	137.40	64.64	1.7
*N2	0.0789992	1.595	0.565	-0.222	0.63	42.80	22.33	189.37	21.54	8
*M2	0.0805114	5.879	0.535	2.772	0.55	58.34	8.55	221.68	7.47	1.2e+002
*L2	0.0820236	0.604	0.388	-0.107	0.49	66.57	58.16	314.13	46.69	2.4
*S2	0.0833333	1.340	0.509	0.619	0.57	57.17	33.24	243.15	32.29	6.9
ETA2	0.0850736	0.486	0.509	-0.118	0.43	20.12	67.63	145.61	91.37	0.91
MO3	0.1192421	0.209	0.260	-0.121	0.28	163.69	105.93	313.14	110.21	0.65
M3	0.1207671	0.322	0.239	-0.078	0.26	15.26	58.13	281.93	63.46	1.8
MK3	0.1222921	0.299	0.259	-0.120	0.24	89.30	76.24	15.96	68.82	1.3
SK3	0.1251141	0.241	0.225	-0.137	0.23	94.76	97.33	100.09	97.15	1.1
MN4	0.1595106	0.197	0.179	-0.139	0.22	165.22	116.93	11.74	95.67	1.2
M4	0.1610228	0.301	0.292	0.040	0.21	78.80	44.86	95.69	66.86	1.1
SN4	0.1623326	0.157	0.218	0.088	0.20	24.48	128.07	42.91	123.31	0.52
MS4	0.1638447	0.338	0.242	-0.203	0.25	51.56	78.09	135.85	87.04	2
S4	0.1666667	0.099	0.196	-0.019	0.19	179.88	145.24	340.24	125.40	0.25
2MK5	0.2028035	0.077	0.162	-0.003	0.15	177.81	101.44	288.04	179.05	0.23
2SK5	0.2084474	0.185	0.199	-0.001	0.19	138.43	69.34	50.99	86.96	0.86
2MN6	0.2400221	0.334	0.317	0.071	0.12	91.17	24.72	47.76	60.12	1.1
*M6	0.2415342	0.900	0.340	-0.125	0.12	96.32	8.50	64.97	22.04	7
2MS6	0.2443561	0.373	0.319	0.007	0.14	107.32	20.24	106.88	52.16	1.4
2SM6	0.2471781	0.085	0.226	-0.027	0.14	12.81	98.76	266.54	124.86	0.14
*3MK7	0.2833149	0.236	0.153	-0.056	0.13	57.88	42.25	106.65	38.31	2.4
*M8	0.3220456	0.171	0.094	-0.031	0.11	25.27	48.96	291.00	44.09	3.3

total var= 94.362 pred var= 39.589
percent total var predicted/var original= 42.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.1 m

Mooring Number: 6271

File Name: 6271adc-alh.nc

nobs = 3360, ngood = 3358, 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= 0.371, x trend= 0

var(x)= 64.9847 var(xp)= 14.84 var(xres)= 50.5756
percent var predicted/var original= 22.8 %

y0= -0.198, x trend= 0

var(y)= 37.7023 var(yp)= 9.204 var(yres)= 28.4633
percent var predicted/var original= 24.4 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.978	1.105	-0.454	1.16	121.37	100.63	250.02	118.99	0.78
MSF	0.0028219	0.497	1.167	0.134	1.14	10.71	153.55	83.34	162.02	0.18
ALP1	0.0343966	0.515	0.457	-0.299	0.51	125.53	84.24	247.68	86.27	1.3
2Q1	0.0357064	0.580	0.574	-0.282	0.44	176.88	76.52	256.04	91.45	1
Q1	0.0372185	0.090	0.414	-0.017	0.38	98.68	163.47	138.59	206.42	0.047
*O1	0.0387307	0.774	0.520	-0.280	0.53	116.92	56.93	337.81	50.55	2.2
NO1	0.0402686	1.119	1.148	-0.552	0.97	160.25	77.33	20.76	90.24	0.95
*K1	0.0417807	1.123	0.434	-0.759	0.56	102.56	67.16	318.40	63.72	6.7
J1	0.0432929	0.508	0.501	-0.150	0.43	165.75	62.07	296.97	94.02	1
OO1	0.0448308	0.296	0.564	-0.165	0.58	176.60	116.26	232.23	145.06	0.28
UPS1	0.0463430	0.405	0.534	-0.180	0.46	14.95	101.35	203.94	111.53	0.57
EPS2	0.0761773	0.184	1.001	-0.060	0.84	43.58	79.60	225.65	222.97	0.034
MU2	0.0776895	0.819	1.313	0.094	0.88	4.13	46.78	130.91	126.28	0.39
N2	0.0789992	1.171	1.127	0.695	1.23	65.16	96.65	175.34	89.09	1.1
*M2	0.0805114	5.877	1.626	2.841	1.32	149.43	18.40	281.42	24.01	13
L2	0.0820236	1.559	1.458	-0.423	0.88	179.64	31.44	27.35	61.17	1.1
S2	0.0833333	1.645	1.607	0.390	0.99	2.68	40.03	173.02	80.12	1
ETA2	0.0850736	0.566	1.241	-0.070	0.93	165.67	55.90	49.12	130.23	0.21
MO3	0.1192421	0.251	0.284	-0.185	0.25	28.93	88.89	80.91	110.16	0.78
M3	0.1207671	0.224	0.264	-0.116	0.25	169.31	75.57	190.05	120.67	0.72
MK3	0.1222921	0.197	0.227	-0.102	0.24	121.76	110.73	350.27	95.31	0.75
SK3	0.1251141	0.220	0.297	-0.099	0.24	174.03	76.31	276.37	175.88	0.55
MN4	0.1595106	0.169	0.332	-0.013	0.30	126.95	84.45	114.98	152.49	0.26
*M4	0.1610228	0.624	0.410	-0.296	0.36	39.11	48.95	97.04	64.50	2.3
SN4	0.1623326	0.502	0.406	-0.254	0.31	21.02	44.99	316.31	82.08	1.5
MS4	0.1638447	0.370	0.314	-0.200	0.41	82.93	129.56	163.99	82.88	1.4
S4	0.1666667	0.171	0.350	-0.119	0.27	158.06	62.35	155.26	147.83	0.24
2MK5	0.2028035	0.181	0.159	-0.001	0.13	12.30	37.08	127.63	57.58	1.3
2SK5	0.2084474	0.083	0.143	-0.008	0.11	173.20	82.24	72.57	159.30	0.34
*2MN6	0.2400221	0.538	0.171	0.175	0.29	80.41	33.20	321.18	22.75	9.9
*M6	0.2415342	0.873	0.178	0.057	0.27	87.12	19.13	4.23	10.45	24
*2MS6	0.2443561	0.301	0.188	0.074	0.24	107.60	54.79	61.25	42.59	2.6
2SM6	0.2471781	0.099	0.191	-0.013	0.13	12.33	66.27	60.73	157.42	0.27
3MK7	0.2833149	0.065	0.100	-0.022	0.08	167.62	99.20	113.55	181.47	0.43
M8	0.3220456	0.063	0.070	0.029	0.06	32.87	80.59	16.55	98.81	0.81

total var= 102.687 pred var= 24.044
percent total var predicted/var original= 23.4 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.0 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= 0.487, x trend= 0

var(x)= 58.6923 var(xp)= 13.3782 var(xres)= 45.8966
percent var predicted/var original= 22.8 %

y0= -1.11, x trend= 0

var(y)= 44.4878 var(yp)= 11.7265 var(yres)= 32.8034
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	1.883	1.542	0.375	1.43	113.87	42.85	338.33	59.01	1.5
MSF	0.0028219	0.910	1.446	0.243	1.15	122.18	91.77	194.20	123.38	0.4
ALP1	0.0343966	0.262	0.437	-0.104	0.45	124.07	130.35	2.41	163.74	0.36
2Q1	0.0357064	0.682	0.554	-0.460	0.60	158.49	89.17	280.65	92.06	1.5
Q1	0.0372185	0.705	0.545	-0.200	0.63	133.19	69.86	121.21	74.62	1.7
O1	0.0387307	0.401	0.481	0.018	0.57	116.99	100.96	320.82	95.98	0.69
NO1	0.0402686	0.566	0.975	0.142	0.93	143.24	119.93	304.98	139.44	0.34
*K1	0.0417807	1.202	0.606	-0.326	0.68	115.19	43.69	345.94	39.09	3.9
J1	0.0432929	0.220	0.496	-0.015	0.45	5.63	112.55	116.05	170.07	0.2
OO1	0.0448308	0.423	0.760	-0.148	0.72	46.93	107.31	183.54	128.35	0.31
UPS1	0.0463430	0.273	0.565	-0.023	0.53	76.99	121.17	246.37	135.58	0.23
EPS2	0.0761773	0.460	0.973	-0.109	0.75	146.37	57.93	292.49	137.33	0.22
MU2	0.0776895	0.935	1.396	0.015	0.72	171.04	49.72	326.37	113.71	0.45
N2	0.0789992	1.727	1.242	0.336	1.00	147.53	35.70	233.31	49.86	1.9
*M2	0.0805114	5.759	1.482	2.291	1.35	132.80	17.40	256.26	16.59	15
*L2	0.0820236	2.002	1.336	-0.493	0.68	0.19	19.18	216.92	42.22	2.2
S2	0.0833333	2.138	1.661	0.412	0.87	19.49	23.77	196.76	43.06	1.7
ETA2	0.0850736	0.516	0.877	-0.070	0.79	116.45	93.80	33.53	123.09	0.35
MO3	0.1192421	0.222	0.301	-0.069	0.19	167.76	51.66	329.99	117.37	0.54
M3	0.1207671	0.335	0.294	0.038	0.18	0.24	35.91	39.25	54.61	1.3
MK3	0.1222921	0.142	0.263	0.056	0.19	29.80	82.04	212.14	133.63	0.29
SK3	0.1251141	0.174	0.214	-0.110	0.24	92.82	146.24	36.53	110.54	0.66
MN4	0.1595106	0.112	0.317	0.018	0.20	164.11	57.90	84.37	172.94	0.13
*M4	0.1610228	0.767	0.476	-0.122	0.35	31.01	24.27	52.93	33.37	2.6
SN4	0.1623326	0.546	0.479	-0.179	0.26	6.86	33.92	322.65	60.07	1.3
MS4	0.1638447	0.254	0.330	0.001	0.27	140.68	56.13	157.30	117.16	0.59
S4	0.1666667	0.047	0.299	-0.026	0.21	14.84	60.86	321.43	241.90	0.025
*2MK5	0.2028035	0.306	0.193	0.031	0.15	9.76	24.40	122.44	38.95	2.5
2SK5	0.2084474	0.074	0.158	-0.004	0.12	179.34	59.48	146.73	182.21	0.22
*2MN6	0.2400221	0.485	0.184	0.029	0.22	74.93	28.35	286.58	23.60	7
*M6	0.2415342	0.909	0.189	-0.088	0.21	87.06	13.67	346.81	12.79	23
*2MS6	0.2443561	0.335	0.186	0.068	0.23	77.60	49.87	15.60	39.29	3.3
2SM6	0.2471781	0.117	0.160	-0.024	0.17	68.32	123.38	62.76	114.21	0.53
3MK7	0.2833149	0.113	0.112	-0.021	0.11	40.79	64.43	236.17	91.68	1
M8	0.3220456	0.117	0.090	0.027	0.08	28.72	49.26	25.81	65.57	1.7

total var= 103.1801 pred var= 25.1047
percent total var predicted/var original= 24.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.2 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= -0.518, x trend= 0

var(x)= 21.5488 var(xp)= 11.0106 var(xres)= 10.4999
percent var predicted/var original= 51.1 %

y0= -2.71, x trend= 0

var(y)= 53.987 var(yp)= 14.0146 var(yres)= 40.0093
percent var predicted/var original= 26.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.290	2.010	0.214	0.85	107.96	33.59	358.32	98.94	0.41
MSF	0.0028219	0.496	1.374	-0.132	0.76	98.59	38.89	253.18	184.59	0.13
ALP1	0.0343966	0.489	0.513	-0.025	0.31	105.75	37.24	328.04	71.12	0.91
2Q1	0.0357064	0.258	0.343	-0.094	0.37	157.38	100.55	299.52	149.22	0.57
Q1	0.0372185	0.206	0.363	-0.012	0.27	62.99	58.55	15.59	166.25	0.32
O1	0.0387307	0.315	0.448	0.103	0.36	38.96	82.04	244.59	95.37	0.49
NO1	0.0402686	0.707	0.785	-0.077	0.54	115.44	40.43	317.84	65.06	0.81
K1	0.0417807	0.572	0.446	0.351	0.37	111.61	68.56	25.45	97.30	1.6
J1	0.0432929	0.288	0.414	-0.049	0.24	89.19	52.16	283.98	114.35	0.49
OO1	0.0448308	0.432	0.481	0.114	0.50	143.53	90.91	350.24	102.51	0.8
UPS1	0.0463430	0.474	0.576	-0.240	0.40	114.92	73.70	170.57	105.00	0.68
EPS2	0.0761773	0.187	0.276	-0.047	0.19	70.48	70.88	10.33	111.55	0.46
MU2	0.0776895	0.354	0.255	-0.067	0.29	34.75	53.71	80.15	48.66	1.9
*N2	0.0789992	1.241	0.342	0.749	0.28	63.74	28.73	188.33	32.35	13
*M2	0.0805114	6.221	0.297	2.187	0.31	48.03	3.94	205.91	3.45	4.4e+002
*L2	0.0820236	0.403	0.227	0.015	0.28	25.49	41.51	214.54	32.08	3.1
*S2	0.0833333	1.101	0.306	0.160	0.27	60.74	15.25	245.01	17.79	13
ETA2	0.0850736	0.215	0.259	-0.043	0.21	122.54	68.65	333.39	93.27	0.69
MO3	0.1192421	0.079	0.117	0.030	0.09	83.10	91.65	316.46	123.97	0.46
M3	0.1207671	0.102	0.121	-0.005	0.11	98.58	53.53	19.93	85.45	0.71
MK3	0.1222921	0.125	0.100	-0.017	0.12	44.88	63.28	120.35	69.64	1.6
SK3	0.1251141	0.110	0.098	-0.003	0.12	2.79	94.99	246.21	73.03	1.2
*MN4	0.1595106	0.223	0.126	-0.001	0.11	48.92	36.69	53.18	39.58	3.1
*M4	0.1610228	0.461	0.123	0.053	0.11	62.08	13.52	52.45	17.11	14
*SN4	0.1623326	0.166	0.116	0.050	0.12	31.13	56.76	255.42	48.12	2.1
MS4	0.1638447	0.104	0.102	0.001	0.10	43.93	68.94	72.99	70.17	1
S4	0.1666667	0.086	0.112	-0.042	0.10	70.09	84.14	312.60	107.06	0.58
2MK5	0.2028035	0.096	0.084	0.010	0.06	94.22	38.11	274.74	67.39	1.3
2SK5	0.2084474	0.073	0.076	-0.016	0.06	65.22	59.02	181.77	86.12	0.92
*2MN6	0.2400221	0.429	0.156	-0.003	0.06	92.00	8.85	339.62	22.39	7.5
*M6	0.2415342	0.798	0.177	0.077	0.07	83.65	5.09	4.60	12.06	20
*2MS6	0.2443561	0.305	0.157	0.046	0.07	79.06	13.82	64.77	34.30	3.8
2SM6	0.2471781	0.074	0.115	0.025	0.06	102.61	41.84	56.06	143.20	0.41
3MK7	0.2833149	0.061	0.060	-0.018	0.07	11.18	104.63	287.98	71.66	1.1
*M8	0.3220456	0.107	0.050	-0.062	0.05	114.79	51.91	103.46	55.11	4.5

total var= 75.5358 pred var= 25.0252
percent total var predicted/var original= 33.1 %

Tidal Analysis of Current at LT-B

ADCP Observations, 13.2 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= -0.0525, x trend= 0

var(x)= 11.2013 var(xp)= 3.3803 var(xres)= 7.8189
percent var predicted/var original= 30.2 %

y0= -1.84, x trend= 0

var(y)= 42.6779 var(yp)= 14.0254 var(yres)= 28.6135
percent var predicted/var original= 32.9 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.779	1.311	-0.083	0.93	124.00	58.52	40.16	120.43	0.35
MSF	0.0028219	0.533	1.185	-0.209	0.75	116.99	51.38	184.25	159.48	0.2
ALP1	0.0343966	0.505	0.476	-0.237	0.39	106.81	67.51	308.78	90.13	1.1
2Q1	0.0357064	0.154	0.336	-0.059	0.31	136.11	112.79	334.58	207.33	0.21
Q1	0.0372185	0.356	0.441	-0.064	0.38	95.62	73.10	349.68	102.77	0.65
O1	0.0387307	0.299	0.418	-0.087	0.41	45.07	99.16	220.57	110.36	0.51
NO1	0.0402686	0.812	0.682	-0.174	0.63	124.70	53.05	356.72	65.12	1.4
K1	0.0417807	0.311	0.399	0.101	0.41	176.01	146.51	82.23	189.63	0.61
J1	0.0432929	0.353	0.385	-0.025	0.40	132.93	74.76	331.51	92.52	0.84
OO1	0.0448308	0.361	0.569	-0.185	0.45	83.57	79.63	305.28	134.96	0.4
UPS1	0.0463430	0.354	0.461	-0.068	0.45	129.00	84.88	165.03	107.54	0.59
EPS2	0.0761773	0.206	0.225	-0.079	0.23	125.73	87.58	200.82	96.63	0.84
MU2	0.0776895	0.285	0.241	-0.121	0.24	72.16	74.54	95.51	81.52	1.4
*N2	0.0789992	1.224	0.321	0.483	0.29	68.68	16.84	179.69	18.06	15
*M2	0.0805114	5.021	0.338	2.170	0.28	74.93	4.93	212.72	5.28	2.2e+002
L2	0.0820236	0.332	0.254	0.048	0.21	69.44	42.70	230.81	56.46	1.7
*S2	0.0833333	0.951	0.325	0.209	0.28	75.25	20.48	240.90	22.48	8.5
ETA2	0.0850736	0.158	0.199	0.062	0.22	52.05	83.64	344.67	110.84	0.63
MO3	0.1192421	0.151	0.125	-0.043	0.15	151.19	82.37	11.15	74.93	1.5
M3	0.1207671	0.085	0.136	0.015	0.12	17.91	121.97	225.77	102.63	0.4
MK3	0.1222921	0.111	0.154	0.011	0.12	70.78	74.66	147.19	92.61	0.52
SK3	0.1251141	0.196	0.164	-0.028	0.14	112.52	46.00	82.99	55.11	1.4
MN4	0.1595106	0.093	0.113	-0.014	0.10	105.54	61.91	100.31	92.06	0.68
*M4	0.1610228	0.207	0.125	-0.048	0.11	100.11	33.25	94.88	45.19	2.8
SN4	0.1623326	0.145	0.143	0.020	0.10	83.18	44.76	240.64	61.42	1
MS4	0.1638447	0.135	0.133	-0.016	0.08	108.78	39.47	112.76	61.39	1
S4	0.1666667	0.076	0.110	0.015	0.08	108.19	80.52	213.16	116.24	0.47
2MK5	0.2028035	0.056	0.077	0.038	0.08	8.86	116.67	179.33	128.23	0.53
2SK5	0.2084474	0.047	0.068	0.004	0.07	152.62	129.60	132.12	134.11	0.48
*2MN6	0.2400221	0.626	0.209	-0.040	0.09	97.21	8.17	305.97	21.27	9
*M6	0.2415342	0.904	0.216	0.033	0.09	94.17	5.09	343.45	16.80	18
2MS6	0.2443561	0.281	0.209	0.003	0.09	96.91	16.83	57.21	43.00	1.8
2SM6	0.2471781	0.055	0.134	-0.025	0.09	29.85	57.38	127.82	178.03	0.17
3MK7	0.2833149	0.025	0.081	-0.005	0.07	10.38	149.50	182.23	180.28	0.096
M8	0.3220456	0.027	0.053	0.010	0.05	43.83	121.22	337.93	139.76	0.25

total var= 53.8793 pred var= 17.4057
percent total var predicted/var original= 32.3 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.0 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= -0.221, x trend= 0

var(x)= 19.3468 var(xp)= 6.72 var(xres)= 12.6165
percent var predicted/var original= 34.7 %

y0= -2.53, x trend= 0

var(y)= 45.3109 var(yp)= 15.0494 var(yres)= 30.223
percent var predicted/var original= 33.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.807	1.392	0.091	1.23	130.17	76.48	49.36	121.66	0.34
MSF	0.0028219	0.895	1.302	-0.197	1.14	113.31	68.08	203.32	123.49	0.47
ALP1	0.0343966	0.639	0.519	-0.137	0.53	114.83	49.41	311.31	57.17	1.5
2Q1	0.0357064	0.247	0.412	-0.146	0.36	136.22	111.58	348.22	144.32	0.36
Q1	0.0372185	0.498	0.466	-0.076	0.43	102.56	57.38	355.75	76.59	1.1
O1	0.0387307	0.357	0.460	-0.143	0.38	80.50	77.99	184.67	104.25	0.6
NO1	0.0402686	0.957	0.756	-0.284	0.74	125.16	55.51	340.49	58.03	1.6
K1	0.0417807	0.569	0.477	0.481	0.45	74.48	104.66	332.77	117.14	1.4
J1	0.0432929	0.122	0.393	-0.068	0.35	57.56	99.63	29.07	210.78	0.097
OO1	0.0448308	0.241	0.465	0.062	0.45	94.61	90.94	284.58	169.10	0.27
UPS1	0.0463430	0.540	0.588	-0.043	0.51	112.57	61.01	163.31	84.44	0.84
EPS2	0.0761773	0.204	0.230	0.036	0.19	93.31	83.82	101.29	85.23	0.79
MU2	0.0776895	0.260	0.229	0.074	0.22	81.84	66.06	125.31	63.12	1.3
*N2	0.0789992	1.438	0.280	0.398	0.28	61.37	12.22	171.29	11.73	26
*M2	0.0805114	5.708	0.272	2.143	0.26	59.11	3.26	199.60	3.31	4.4e+002
*L2	0.0820236	0.448	0.206	0.245	0.22	56.05	50.81	219.57	52.15	4.7
*S2	0.0833333	0.862	0.262	0.257	0.25	66.28	17.96	236.35	19.34	11
ETA2	0.0850736	0.220	0.219	-0.074	0.19	109.83	80.31	288.90	75.77	1
MO3	0.1192421	0.108	0.150	0.017	0.10	83.76	76.94	351.33	96.97	0.52
M3	0.1207671	0.108	0.127	-0.068	0.11	57.00	86.21	130.89	110.86	0.72
MK3	0.1222921	0.163	0.156	-0.025	0.16	147.78	64.15	295.13	68.76	1.1
SK3	0.1251141	0.107	0.134	0.067	0.12	128.90	94.84	23.97	108.19	0.64
MN4	0.1595106	0.109	0.099	0.054	0.10	176.46	82.22	181.48	89.32	1.2
*M4	0.1610228	0.250	0.106	0.004	0.12	58.82	30.80	68.34	26.54	5.5
SN4	0.1623326	0.110	0.115	0.018	0.10	48.44	66.09	208.84	75.58	0.92
MS4	0.1638447	0.070	0.097	0.029	0.10	64.85	100.92	123.77	105.79	0.52
S4	0.1666667	0.065	0.113	-0.033	0.10	141.54	117.28	170.07	125.01	0.33
2MK5	0.2028035	0.111	0.095	-0.012	0.08	110.06	50.69	181.49	62.00	1.4
2SK5	0.2084474	0.065	0.090	-0.047	0.08	52.32	116.24	62.20	136.18	0.52
*2MN6	0.2400221	0.512	0.173	0.003	0.10	88.87	9.46	321.63	22.84	8.8
*M6	0.2415342	0.791	0.198	0.001	0.11	95.09	7.20	341.69	13.90	16
*2MS6	0.2443561	0.288	0.181	0.047	0.09	93.67	18.19	62.22	39.88	2.5
2SM6	0.2471781	0.028	0.124	0.016	0.09	40.69	67.64	353.00	203.13	0.051
3MK7	0.2833149	0.074	0.082	-0.050	0.08	138.18	99.72	109.47	105.52	0.81
M8	0.3220456	0.050	0.060	-0.006	0.06	120.18	108.32	49.69	117.75	0.7

total var= 64.6577 pred var= 21.7694
percent total var predicted/var original= 33.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 16.9 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= 0.491, x trend= 0

var(x)= 45.5205 var(xp)= 10.1668 var(xres)= 35.3096
percent var predicted/var original= 22.3 %

y0= -1.02, x trend= 0

var(y)= 48.1368 var(yp)= 17.9786 var(yres)= 30.2394
percent var predicted/var original= 37.3 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.376	1.053	0.156	1.34	138.42	64.80	58.01	56.63	1.7
MSF	0.0028219	1.101	0.962	-0.073	1.25	154.17	90.04	49.73	72.02	1.3
ALP1	0.0343966	0.576	0.676	-0.412	0.63	163.67	90.64	189.40	113.82	0.72
2Q1	0.0357064	0.340	0.609	-0.023	0.54	117.39	124.27	143.40	128.38	0.31
Q1	0.0372185	0.216	0.582	0.092	0.47	66.83	145.26	75.23	164.36	0.14
O1	0.0387307	0.498	0.596	-0.147	0.60	89.20	115.86	310.82	101.69	0.7
NO1	0.0402686	0.605	0.730	-0.161	0.78	128.17	95.23	149.36	85.75	0.69
*K1	0.0417807	1.384	0.729	-0.626	0.75	51.45	47.38	298.26	45.84	3.6
J1	0.0432929	0.221	0.556	-0.101	0.50	12.49	99.74	347.73	175.15	0.16
OO1	0.0448308	0.525	0.709	-0.385	0.67	66.65	130.25	143.69	131.13	0.55
UPS1	0.0463430	0.319	0.581	-0.096	0.55	163.38	105.12	297.37	215.12	0.3
EPS2	0.0761773	0.475	0.647	-0.262	0.69	153.97	111.10	260.75	141.24	0.54
MU2	0.0776895	0.406	0.624	0.028	0.68	167.48	95.99	299.99	139.86	0.42
*N2	0.0789992	1.347	0.763	0.831	0.90	100.95	80.72	182.67	70.36	3.1
*M2	0.0805114	6.060	0.965	3.524	0.96	61.59	15.36	192.56	14.45	39
L2	0.0820236	0.586	0.701	-0.309	0.70	0.38	90.49	150.80	107.34	0.7
*S2	0.0833333	1.253	0.780	0.493	0.89	55.28	60.55	221.82	60.53	2.6
ETA2	0.0850736	0.289	0.644	-0.158	0.60	35.41	108.64	82.66	151.19	0.2
MO3	0.1192421	0.170	0.191	-0.032	0.20	146.07	95.73	177.15	96.17	0.79
M3	0.1207671	0.187	0.224	-0.071	0.23	13.15	104.15	330.75	101.97	0.7
MK3	0.1222921	0.290	0.253	-0.152	0.25	112.35	78.74	25.34	94.39	1.3
SK3	0.1251141	0.157	0.228	0.004	0.22	90.66	79.57	99.16	108.21	0.47
MN4	0.1595106	0.217	0.191	-0.064	0.20	123.94	63.85	30.75	69.71	1.3
*M4	0.1610228	0.552	0.173	-0.368	0.23	101.10	50.73	79.70	44.75	10
SN4	0.1623326	0.267	0.240	-0.001	0.21	41.54	49.40	151.63	51.05	1.2
*MS4	0.1638447	0.278	0.193	-0.108	0.24	72.54	67.94	96.61	60.51	2.1
S4	0.1666667	0.210	0.196	-0.139	0.17	45.27	98.90	151.20	104.57	1.2
2MK5	0.2028035	0.160	0.160	-0.071	0.13	77.32	79.16	188.93	90.80	1
2SK5	0.2084474	0.114	0.157	0.021	0.14	111.80	87.67	211.88	98.89	0.52
*2MN6	0.2400221	0.446	0.198	-0.020	0.16	92.95	20.17	305.88	23.38	5.1
*M6	0.2415342	0.837	0.178	0.030	0.15	107.75	10.73	7.01	12.89	22
*2MS6	0.2443561	0.350	0.158	-0.053	0.17	116.54	30.76	52.46	36.05	4.9
2SM6	0.2471781	0.106	0.132	-0.001	0.14	114.19	80.12	130.48	116.64	0.65
3MK7	0.2833149	0.074	0.090	0.039	0.09	75.88	98.55	320.25	104.19	0.67
M8	0.3220456	0.074	0.067	0.037	0.06	44.21	81.48	128.65	86.60	1.2

total var= 93.6573 pred var= 28.1454
percent total var predicted/var original= 30.1 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.0 m

Mooring Number: 6471

File Name: 6471adc-alh.nc

nobs = 3809, ngood = 3808, 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= 0.251, x trend= 0

var(x)= 56.5249 var(xp)= 23.8061 var(xres)= 32.7728
percent var predicted/var original= 42.1 %

y0= 0.618, x trend= 0

var(y)= 24.763 var(yp)= 7.2705 var(yres)= 17.4828
percent var predicted/var original= 29.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.795	0.711	0.135	0.57	106.24	47.85	58.57	83.14	1.3
MSF	0.0028219	0.709	0.674	-0.018	0.62	137.28	66.63	134.53	67.28	1.1
ALP1	0.0343966	0.386	0.424	-0.122	0.31	166.81	55.02	186.47	68.84	0.83
2Q1	0.0357064	0.195	0.326	-0.001	0.28	90.56	133.38	174.29	125.92	0.36
Q1	0.0372185	0.498	0.384	-0.148	0.33	165.62	52.86	223.76	65.94	1.7
O1	0.0387307	0.472	0.347	-0.205	0.38	107.02	79.89	304.81	66.40	1.8
NO1	0.0402686	0.252	0.301	-0.063	0.27	136.38	90.63	300.51	92.53	0.7
*K1	0.0417807	1.197	0.322	-0.668	0.47	89.10	32.03	336.05	30.42	14
J1	0.0432929	0.322	0.317	-0.054	0.42	101.85	88.78	259.90	71.70	1
OO1	0.0448308	0.194	0.304	-0.097	0.28	144.90	93.30	330.51	138.59	0.41
UPS1	0.0463430	0.363	0.328	-0.201	0.32	153.70	79.23	266.81	99.82	1.2
EPS2	0.0761773	0.855	0.838	-0.318	0.65	161.82	58.51	271.56	75.86	1
MU2	0.0776895	0.896	0.805	-0.211	0.56	0.27	47.80	102.82	60.49	1.2
*N2	0.0789992	2.418	1.027	0.247	0.66	173.20	16.89	289.86	22.57	5.5
*M2	0.0805114	6.203	1.036	2.975	0.72	168.13	9.96	313.27	12.14	36
*L2	0.0820236	1.268	0.697	-0.833	0.60	179.02	62.24	336.59	81.87	3.3
*S2	0.0833333	1.229	0.782	0.279	0.85	46.16	39.01	231.51	43.00	2.5
ETA2	0.0850736	0.260	0.585	-0.208	0.48	21.43	88.26	104.08	188.56	0.2
MO3	0.1192421	0.211	0.316	-0.059	0.21	166.36	65.39	87.36	129.82	0.44
M3	0.1207671	0.180	0.302	-0.045	0.23	31.65	79.37	130.87	115.82	0.35
*MK3	0.1222921	0.453	0.316	-0.205	0.26	148.27	51.73	0.47	55.74	2.1
SK3	0.1251141	0.157	0.251	0.019	0.25	102.63	124.43	97.22	120.49	0.39
MN4	0.1595106	0.315	0.329	-0.216	0.26	18.13	67.94	150.18	101.75	0.92
*M4	0.1610228	0.792	0.353	-0.433	0.27	28.33	33.72	152.10	45.56	5
SN4	0.1623326	0.181	0.357	-0.075	0.21	172.99	47.92	248.78	140.87	0.26
MS4	0.1638447	0.181	0.272	-0.039	0.25	49.26	70.86	201.72	117.27	0.45
S4	0.1666667	0.122	0.294	0.028	0.20	28.37	57.63	130.77	161.45	0.17
2MK5	0.2028035	0.209	0.171	-0.092	0.15	36.69	57.75	230.81	61.26	1.5
2SK5	0.2084474	0.136	0.171	-0.072	0.13	175.63	64.74	261.98	122.13	0.63
*2MN6	0.2400221	0.509	0.167	0.232	0.27	72.34	41.26	319.68	27.95	9.2
*M6	0.2415342	0.739	0.153	0.200	0.30	87.10	25.53	7.32	15.32	23
*2MS6	0.2443561	0.293	0.189	0.157	0.22	65.47	79.28	44.12	59.65	2.4
2SM6	0.2471781	0.072	0.177	0.024	0.14	26.45	72.69	91.96	166.36	0.16
3MK7	0.2833149	0.054	0.113	-0.028	0.08	162.99	77.22	205.02	141.22	0.23
M8	0.3220456	0.039	0.070	-0.017	0.06	79.25	145.31	107.90	131.70	0.31

total var= 81.2879 pred var= 31.0766
percent total var predicted/var original= 38.2 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.4 m

Mooring Number: 6671

File Name: 6671adc-alh.nc

nobs = 1270, ngood = 1269, 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= -0.853, x trend= 0

var(x)= 21.3483 var(xp)= 8.9597 var(xres)= 12.4187
percent var predicted/var original= 42.0 %

y0= -0.237, x trend= 0

var(y)= 37.0691 var(yp)= 14.9898 var(yres)= 22.1255
percent var predicted/var original= 40.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.229	1.683	0.135	1.48	125.08	74.86	201.07	127.71	0.53
MSF	0.0028219	0.667	1.594	0.198	1.46	82.87	79.90	323.77	189.66	0.18
ALP1	0.0343966	0.581	0.450	-0.200	0.41	122.08	53.64	83.40	55.14	1.7
2Q1	0.0357064	0.506	0.372	-0.331	0.34	135.87	77.69	180.58	90.94	1.8
Q1	0.0372185	0.474	0.394	0.207	0.38	118.34	62.33	313.10	79.91	1.4
O1	0.0387307	0.369	0.388	0.225	0.34	141.64	88.22	31.15	98.62	0.91
NO1	0.0402686	0.355	0.264	-0.031	0.38	0.13	83.99	351.63	65.36	1.8
*K1	0.0417807	0.696	0.373	-0.377	0.42	170.67	69.48	59.24	57.20	3.5
J1	0.0432929	0.241	0.332	-0.023	0.32	79.72	80.13	86.34	116.59	0.53
OO1	0.0448308	0.342	0.310	0.071	0.29	141.46	68.18	66.24	72.21	1.2
UPS1	0.0463430	0.297	0.348	-0.135	0.32	21.61	111.20	319.98	90.31	0.73
EPS2	0.0761773	0.215	0.276	-0.096	0.28	140.69	111.99	306.35	116.08	0.61
MU2	0.0776895	0.365	0.282	-0.085	0.32	78.17	86.31	346.85	62.69	1.7
*N2	0.0789992	1.394	0.397	0.177	0.41	51.99	17.88	166.39	15.45	12
*M2	0.0805114	6.054	0.375	2.083	0.45	54.48	4.50	205.32	4.08	2.6e+002
*L2	0.0820236	0.620	0.368	0.157	0.41	34.06	46.99	259.68	47.22	2.8
*S2	0.0833333	1.105	0.383	0.371	0.45	50.86	25.36	214.15	24.21	8.3
ETA2	0.0850736	0.089	0.238	-0.044	0.21	121.41	128.64	60.98	172.99	0.14
MO3	0.1192421	0.079	0.131	0.037	0.12	123.74	122.51	35.99	149.09	0.36
M3	0.1207671	0.113	0.146	0.070	0.14	36.91	119.82	24.61	127.95	0.6
MK3	0.1222921	0.120	0.142	0.014	0.15	2.74	89.17	255.88	90.97	0.72
SK3	0.1251141	0.087	0.132	-0.071	0.13	63.88	129.20	264.89	144.60	0.44
MN4	0.1595106	0.095	0.105	0.055	0.11	114.26	97.22	149.17	100.19	0.81
*M4	0.1610228	0.271	0.115	-0.005	0.11	90.87	30.46	86.97	24.88	5.5
SN4	0.1623326	0.065	0.097	0.016	0.10	128.60	104.36	134.26	127.94	0.45
MS4	0.1638447	0.116	0.113	-0.006	0.09	61.56	71.27	89.95	66.81	1
S4	0.1666667	0.096	0.103	0.016	0.10	83.75	90.79	223.31	88.41	0.88
*2MK5	0.2028035	0.154	0.083	0.028	0.12	6.11	50.15	131.00	34.38	3.4
2SK5	0.2084474	0.131	0.104	0.053	0.08	117.15	51.42	55.83	66.14	1.6
*2MN6	0.2400221	0.305	0.170	0.009	0.11	99.83	22.59	329.02	35.99	3.2
*M6	0.2415342	0.879	0.189	0.025	0.12	90.85	7.26	12.64	11.61	22
*2MS6	0.2443561	0.323	0.186	0.003	0.11	89.08	20.50	43.85	32.87	3
2SM6	0.2471781	0.092	0.104	-0.020	0.11	10.84	126.84	126.63	108.47	0.79
3MK7	0.2833149	0.051	0.058	-0.011	0.05	50.47	87.63	103.58	107.25	0.77
M8	0.3220456	0.044	0.058	0.030	0.05	25.39	119.27	127.47	127.12	0.59

total var= 58.4175 pred var= 23.9494
percent total var predicted/var original= 41.0 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.1 m

Mooring Number: 6851

File Name: 6851adc-alh.nc

nobs = 2493, ngood = 2493, 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= -0.844, x trend= 0

var(x)= 28.8467 var(xp)= 7.6502 var(xres)= 21.1142
percent var predicted/var original= 26.5 %

y0= -0.976, x trend= 0

var(y)= 43.2593 var(yp)= 15.9019 var(yres)= 27.3675
percent var predicted/var original= 36.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.376	1.123	-0.580	1.15	129.91	80.25	184.27	86.08	1.5
MSF	0.0028219	1.338	1.460	0.117	1.38	122.92	77.41	334.79	79.84	0.84
ALP1	0.0343966	0.606	0.568	-0.062	0.56	143.33	78.65	49.50	82.30	1.1
2Q1	0.0357064	0.332	0.477	-0.010	0.50	58.75	99.73	344.24	115.49	0.48
Q1	0.0372185	0.571	0.517	0.036	0.62	146.14	77.68	41.17	73.22	1.2
O1	0.0387307	0.439	0.515	0.005	0.51	1.48	91.66	219.88	95.03	0.73
NO1	0.0402686	0.110	0.323	0.043	0.30	119.65	120.20	130.72	190.60	0.12
K1	0.0417807	0.789	0.579	-0.371	0.56	25.88	66.18	309.33	59.96	1.9
J1	0.0432929	0.435	0.483	-0.143	0.47	123.72	77.68	146.41	96.20	0.81
OO1	0.0448308	0.355	0.496	-0.215	0.41	113.05	114.52	170.07	107.96	0.51
UPS1	0.0463430	0.185	0.376	-0.092	0.41	7.30	136.43	7.51	163.59	0.24
EPS2	0.0761773	0.232	0.295	-0.076	0.32	19.27	114.36	222.39	104.44	0.62
MU2	0.0776895	0.405	0.361	0.072	0.36	56.58	54.46	124.42	55.40	1.3
*N2	0.0789992	1.707	0.433	0.576	0.36	68.40	14.37	183.99	18.06	16
*M2	0.0805114	6.018	0.521	2.478	0.39	59.35	5.10	206.70	5.30	1.3e+002
L2	0.0820236	0.445	0.369	-0.009	0.49	6.20	86.11	249.91	76.18	1.5
*S2	0.0833333	1.421	0.387	0.104	0.43	43.20	16.56	238.58	15.34	14
ETA2	0.0850736	0.151	0.231	-0.077	0.26	75.99	115.77	196.12	130.69	0.43
MO3	0.1192421	0.193	0.138	-0.061	0.11	45.91	46.30	249.50	48.54	2
M3	0.1207671	0.094	0.113	0.045	0.10	77.81	116.90	127.06	114.44	0.69
MK3	0.1222921	0.096	0.107	-0.025	0.10	61.00	87.90	257.81	87.73	0.82
SK3	0.1251141	0.092	0.113	0.020	0.11	155.24	105.06	8.50	92.52	0.67
*MN4	0.1595106	0.237	0.116	-0.061	0.13	66.41	41.99	62.64	37.17	4.2
*M4	0.1610228	0.393	0.131	-0.023	0.13	64.38	18.93	84.18	20.01	9
SN4	0.1623326	0.150	0.112	-0.110	0.10	145.73	98.70	231.99	93.09	1.8
MS4	0.1638447	0.068	0.087	0.007	0.10	9.91	97.73	102.49	105.04	0.61
S4	0.1666667	0.087	0.101	0.006	0.10	79.72	97.72	285.15	85.46	0.74
2MK5	0.2028035	0.094	0.076	-0.075	0.07	21.08	110.14	305.14	106.67	1.5
2SK5	0.2084474	0.024	0.066	0.014	0.06	21.49	141.46	121.98	182.69	0.13
*2MN6	0.2400221	0.568	0.155	0.036	0.07	95.76	8.18	332.40	15.84	13
*M6	0.2415342	0.694	0.129	-0.023	0.09	94.66	6.65	12.60	12.38	29
*2MS6	0.2443561	0.364	0.153	0.020	0.08	99.41	13.61	76.75	27.26	5.6
2SM6	0.2471781	0.136	0.103	0.031	0.09	113.81	44.92	151.96	69.63	1.7
3MK7	0.2833149	0.025	0.049	-0.009	0.05	165.85	124.04	244.15	138.44	0.25
*M8	0.3220456	0.066	0.044	-0.007	0.05	120.25	43.10	85.26	55.85	2.2

total var= 72.106 pred var= 23.552
percent total var predicted/var original= 32.7 %

Tidal Analysis of Current at LT-B

ADCP Observations, 16.6 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= 0.345, x trend= 0

var(x)= 77.8415 var(xp)= 22.4646 var(xres)= 55.9882
percent var predicted/var original= 28.9 %

y0= -0.286, x trend= 0

var(y)= 42.8211 var(yp)= 12.6189 var(yres)= 30.0146
percent var predicted/var original= 29.5 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
SSA	0.0002282	1.022	1.164	-0.220	1.04	76.46	65.27	235.76	96.94	0.77
*MM	0.0015122	2.282	1.223	-0.243	1.46	138.29	41.08	140.56	34.91	3.5
MSF	0.0028219	0.763	0.938	-0.191	1.08	167.55	123.92	281.96	105.41	0.66
MF	0.0030501	1.056	1.239	0.077	1.10	128.04	74.41	32.53	81.83	0.73
ALP1	0.0343966	0.151	0.453	-0.044	0.33	29.87	85.70	115.30	174.76	0.11
2Q1	0.0357064	0.376	0.446	-0.104	0.45	39.39	82.23	62.48	103.44	0.71
Q1	0.0372185	0.398	0.504	-0.007	0.42	167.64	64.11	60.20	102.67	0.62
*O1	0.0387307	0.769	0.523	0.057	0.48	138.12	43.95	341.79	45.12	2.2
TAU1	0.0389588	0.808	0.639	-0.219	0.41	169.42	33.61	277.03	57.25	1.6
BET1	0.0400404	0.425	0.513	-0.071	0.34	168.37	67.93	73.24	87.11	0.69
NO1	0.0402686	0.146	0.289	0.032	0.26	112.60	139.61	344.42	151.78	0.26
*P1	0.0415526	1.114	0.582	-0.955	0.50	12.98	93.94	27.13	99.38	3.7
*K1	0.0417807	1.296	0.425	-0.745	0.56	118.43	50.29	314.57	47.95	9.3
PHI1	0.0420089	0.443	0.560	-0.168	0.42	156.00	70.60	226.57	101.95	0.62
J1	0.0432929	0.346	0.486	-0.007	0.41	162.40	60.66	216.60	112.78	0.51
SO1	0.0446027	0.354	0.445	-0.237	0.47	122.39	118.18	98.70	119.29	0.64
OO1	0.0448308	0.309	0.361	-0.178	0.32	162.24	74.50	226.46	118.36	0.73
UPS1	0.0463430	0.164	0.342	0.010	0.26	147.04	96.52	16.89	147.59	0.23
EPS2	0.0761773	0.703	0.986	-0.357	0.83	29.24	78.42	22.62	138.61	0.51
MU2	0.0776895	0.685	1.030	-0.101	0.66	179.11	48.23	204.07	127.31	0.44
N2	0.0789992	1.508	1.254	0.820	0.84	169.50	51.47	264.01	79.76	1.4
*M2	0.0805114	6.062	1.427	4.248	0.83	175.06	23.56	315.00	30.30	18
MKS2	0.0807396	1.398	1.076	-0.945	0.79	175.09	88.88	124.00	134.26	1.7
L2	0.0820236	1.014	1.627	-0.315	1.08	178.84	58.85	352.55	116.19	0.39
*S2	0.0833333	1.927	1.221	0.284	1.00	28.67	30.68	210.45	40.07	2.5
K2	0.0835615	0.656	0.968	-0.136	0.70	142.83	68.61	268.44	132.20	0.46
MSN2	0.0848455	0.582	1.026	-0.364	0.89	154.91	75.42	323.87	125.22	0.32
ETA2	0.0850736	0.297	0.773	-0.130	0.62	8.99	61.80	142.90	214.93	0.15
MO3	0.1192421	0.142	0.237	-0.065	0.21	40.92	76.47	231.51	127.81	0.36
M3	0.1207671	0.153	0.242	0.030	0.21	62.12	98.84	238.06	113.57	0.4
SO3	0.1220640	0.400	0.322	-0.136	0.19	8.16	33.74	84.10	63.76	1.5
*MK3	0.1222921	0.522	0.329	-0.185	0.18	13.97	28.81	136.77	43.12	2.5
SK3	0.1251141	0.247	0.290	-0.025	0.18	6.63	43.04	233.81	79.46	0.73
MN4	0.1595106	0.500	0.471	-0.239	0.25	14.26	48.65	119.76	96.91	1.1
*M4	0.1610228	0.682	0.398	-0.102	0.38	37.67	35.51	102.74	40.46	2.9
SN4	0.1623326	0.231	0.420	-0.030	0.25	21.80	47.78	152.93	126.55	0.3
MS4	0.1638447	0.316	0.426	-0.132	0.27	15.59	55.33	245.91	114.53	0.55
MK4	0.1640729	0.278	0.308	-0.081	0.29	49.06	72.62	140.21	90.57	0.82
S4	0.1666667	0.172	0.335	-0.021	0.23	150.12	54.19	323.57	145.94	0.26
SK4	0.1668948	0.128	0.312	-0.054	0.22	97.72	173.18	237.89	140.03	0.17
2MK5	0.2028035	0.125	0.183	-0.010	0.13	23.58	68.70	235.27	110.26	0.47
2SK5	0.2084474	0.127	0.170	-0.013	0.17	42.40	73.47	352.25	96.06	0.56
*2MN6	0.2400221	0.516	0.234	0.139	0.23	105.70	28.21	330.04	30.31	4.9
*M6	0.2415342	0.916	0.232	-0.088	0.25	100.58	14.92	15.39	15.66	16
*2MS6	0.2443561	0.303	0.198	0.189	0.20	91.75	84.01	47.54	88.28	2.3
2MK6	0.2445843	0.165	0.178	-0.034	0.18	124.78	77.02	88.66	95.89	0.86
2SM6	0.2471781	0.111	0.181	0.036	0.16	66.65	101.66	94.98	128.19	0.38
MSK6	0.2474062	0.074	0.147	0.006	0.14	67.54	108.39	165.46	144.41	0.25
3MK7	0.2833149	0.083	0.135	0.013	0.10	160.29	80.12	99.24	104.91	0.38

M8 0.3220456 0.150 0.106 -0.060 0.10 51.18 61.51 211.23 59.99 2

total var= 120.6627 pred var= 35.0835
percent total var predicted/var original= 29.1 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.3 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= 0.494, x trend= 0

var(x)= 65.2776 var(xp)= 18.3471 var(xres)= 47.16
percent var predicted/var original= 28.1 %

y0= -0.1, x trend= 0

var(y)= 32.8789 var(yp)= 9.7395 var(yres)= 23.1616
percent var predicted/var original= 29.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	1.886	1.237	-0.179	1.22	141.68	45.93	123.42	45.72	2.3
MSF	0.0028219	0.626	0.956	-0.141	0.94	173.02	129.63	280.13	141.93	0.43
ALP1	0.0343966	0.192	0.453	0.055	0.34	23.83	61.94	111.60	202.37	0.18
2Q1	0.0357064	0.368	0.517	-0.028	0.37	177.57	59.05	272.30	110.08	0.51
Q1	0.0372185	0.102	0.490	-0.051	0.35	166.42	66.59	42.82	235.58	0.043
O1	0.0387307	0.650	0.510	0.021	0.59	117.46	69.57	329.62	51.28	1.6
NO1	0.0402686	0.193	0.363	-0.012	0.31	131.95	88.88	23.06	115.84	0.28
*K1	0.0417807	1.384	0.481	-0.909	0.61	122.27	59.37	322.81	51.84	8.3
J1	0.0432929	0.341	0.525	-0.109	0.37	163.42	56.85	229.66	117.58	0.42
OO1	0.0448308	0.270	0.365	-0.237	0.34	12.76	77.80	33.10	139.19	0.55
UPS1	0.0463430	0.186	0.391	0.041	0.28	162.39	63.49	12.26	146.13	0.23
EPS2	0.0761773	0.937	1.050	-0.384	0.75	13.55	53.52	35.01	98.94	0.8
MU2	0.0776895	0.838	1.161	-0.099	0.69	179.15	59.37	192.52	140.14	0.52
N2	0.0789992	1.704	1.428	0.398	0.88	173.92	33.04	272.80	62.67	1.4
*M2	0.0805114	5.653	1.277	3.610	0.85	162.91	20.23	299.32	25.57	20
L2	0.0820236	1.217	1.574	-0.587	1.04	177.60	79.43	340.54	135.06	0.6
*S2	0.0833333	1.845	1.213	0.393	0.81	22.64	32.49	200.65	43.76	2.3
ETA2	0.0850736	0.362	0.771	-0.270	0.66	166.70	89.83	345.67	218.14	0.22
MO3	0.1192421	0.182	0.208	-0.030	0.26	85.79	147.50	217.90	86.62	0.77
M3	0.1207671	0.182	0.224	0.006	0.27	102.71	124.77	238.69	83.48	0.66
*MK3	0.1222921	0.477	0.327	-0.213	0.18	3.10	35.31	144.69	61.11	2.1
SK3	0.1251141	0.192	0.262	-0.007	0.19	12.48	43.54	230.59	104.49	0.54
MN4	0.1595106	0.543	0.418	-0.193	0.36	34.21	45.45	103.41	59.38	1.7
*M4	0.1610228	0.623	0.375	-0.120	0.38	48.54	46.63	105.04	38.52	2.8
SN4	0.1623326	0.237	0.322	-0.068	0.27	34.99	73.48	146.91	115.48	0.54
MS4	0.1638447	0.325	0.338	-0.256	0.32	39.64	87.16	216.05	137.42	0.92
S4	0.1666667	0.093	0.310	0.008	0.21	142.56	67.90	303.75	182.51	0.091
2MK5	0.2028035	0.186	0.206	-0.035	0.14	172.52	52.19	27.93	85.93	0.81
2SK5	0.2084474	0.170	0.184	-0.017	0.14	26.52	54.71	338.57	88.36	0.85
*2MN6	0.2400221	0.496	0.213	0.115	0.23	122.82	27.53	351.40	28.00	5.4
*M6	0.2415342	0.872	0.235	-0.060	0.25	99.10	18.17	21.81	13.35	14
2MS6	0.2443561	0.200	0.201	0.153	0.19	131.78	129.41	100.51	110.19	0.99
2SM6	0.2471781	0.110	0.172	0.055	0.19	85.46	122.83	118.89	123.00	0.41
3MK7	0.2833149	0.055	0.089	0.008	0.09	135.24	99.42	111.79	132.14	0.39
M8	0.3220456	0.073	0.066	-0.068	0.07	98.79	153.06	153.00	136.74	1.2

total var= 98.1566 pred var= 28.0866
percent total var predicted/var original= 28.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.1 m

Mooring Number: 6991

File Name: 6991adc-alh.nc

nobs = 5036, ngood = 4987, 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= 0.48, x trend= 0

var(x)= 28.0619 var(xp)= 6.9248 var(xres)= 21.2107
percent var predicted/var original= 24.7 %

y0= -2.27, x trend= 0

var(y)= 48.9583 var(yp)= 17.3118 var(yres)= 31.709
percent var predicted/var original= 35.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*SSA	0.0002282	1.869	1.282	0.452	0.95	118.49	39.88	140.91	47.21	2.1
M5M	0.0013098	0.969	0.975	-0.013	1.01	125.61	82.68	82.03	99.39	0.99
MM	0.0015122	1.359	1.219	-0.119	0.87	123.05	53.85	178.57	67.98	1.2
MSF	0.0028219	0.325	0.903	0.199	0.74	161.68	129.78	172.91	201.76	0.13
MF	0.0030501	0.318	0.780	0.005	0.77	117.17	83.99	183.51	174.12	0.17
*ALP1	0.0343966	0.554	0.366	-0.214	0.36	149.97	57.09	55.52	51.99	2.3
2Q1	0.0357064	0.281	0.327	-0.023	0.34	145.91	101.53	69.98	92.28	0.74
SIG1	0.0359087	0.190	0.298	-0.002	0.33	23.09	116.85	310.13	145.12	0.41
Q1	0.0372185	0.096	0.263	-0.061	0.29	48.80	136.58	94.84	205.09	0.13
RHO1	0.0374209	0.122	0.288	0.051	0.29	169.94	131.48	268.48	155.50	0.18
O1	0.0387307	0.454	0.396	-0.051	0.33	110.17	64.06	340.79	68.12	1.3
TAU1	0.0389588	0.318	0.388	0.023	0.32	112.20	91.47	148.02	97.01	0.67
BET1	0.0400404	0.285	0.329	-0.027	0.33	129.60	80.27	166.29	92.27	0.75
NO1	0.0402686	0.272	0.285	-0.107	0.26	126.50	83.49	278.79	84.32	0.91
CHI1	0.0404710	0.202	0.294	-0.139	0.31	4.37	124.61	82.07	138.70	0.47
P1	0.0415526	0.358	0.417	-0.116	0.34	125.26	82.27	317.47	84.44	0.74
*K1	0.0417807	0.517	0.327	-0.123	0.39	35.65	54.68	305.32	45.84	2.5
*PHI1	0.0420089	0.741	0.459	-0.148	0.43	124.26	31.10	218.13	42.33	2.6
THE1	0.0430905	0.229	0.299	-0.206	0.29	127.12	120.49	263.58	161.63	0.59
J1	0.0432929	0.291	0.314	-0.075	0.36	143.37	98.79	233.54	103.90	0.86
SO1	0.0446027	0.067	0.289	0.048	0.30	123.03	128.59	75.35	218.60	0.053
OO1	0.0448308	0.212	0.253	-0.034	0.23	8.62	91.47	337.90	83.31	0.7
UPS1	0.0463430	0.250	0.278	-0.050	0.25	161.63	78.66	13.19	73.33	0.81
QQ2	0.0759749	0.094	0.157	-0.010	0.16	149.80	98.00	266.99	154.52	0.36
*EPS2	0.0761773	0.291	0.193	0.005	0.20	168.32	46.92	325.19	47.10	2.3
*2N2	0.0774871	0.285	0.184	0.086	0.22	84.83	59.15	153.14	53.97	2.4
MU2	0.0776895	0.182	0.170	-0.011	0.17	65.11	78.92	174.96	82.52	1.1
*N2	0.0789992	1.103	0.191	0.673	0.25	72.77	21.76	185.87	19.86	33
NU2	0.0792016	0.266	0.190	0.090	0.17	129.08	63.44	221.00	60.82	2
*M2	0.0805114	5.997	0.225	2.126	0.20	62.03	2.32	207.35	2.60	7.1e+002
*MKS2	0.0807396	0.380	0.186	-0.040	0.21	58.46	30.17	112.58	29.09	4.2
LDA2	0.0818212	0.179	0.171	-0.095	0.18	124.28	96.04	97.98	91.05	1.1
*L2	0.0820236	0.438	0.289	-0.184	0.27	67.43	46.31	242.22	48.46	2.3
*S2	0.0833333	1.069	0.224	0.328	0.21	60.73	12.33	247.05	13.61	23
*K2	0.0835615	0.410	0.178	0.010	0.17	47.11	29.18	243.95	27.67	5.3
MSN2	0.0848455	0.173	0.168	-0.136	0.17	109.21	128.67	258.85	120.45	1.1
ETA2	0.0850736	0.098	0.148	0.062	0.13	117.54	127.53	324.12	134.09	0.44
MO3	0.1192421	0.070	0.085	0.014	0.09	134.22	87.70	7.86	119.23	0.68
M3	0.1207671	0.075	0.108	0.005	0.10	111.28	81.96	258.04	115.25	0.49
SO3	0.1220640	0.144	0.111	0.007	0.12	119.65	50.08	319.74	55.40	1.7
MK3	0.1222921	0.088	0.101	-0.005	0.10	154.39	95.63	172.92	76.24	0.76
SK3	0.1251141	0.033	0.089	0.011	0.08	72.12	102.66	118.35	184.23	0.14
*MN4	0.1595106	0.212	0.094	0.013	0.08	72.61	23.82	64.32	25.17	5.1
*M4	0.1610228	0.227	0.088	0.027	0.08	80.26	19.64	82.66	24.56	6.6
SN4	0.1623326	0.035	0.062	-0.022	0.06	77.39	137.67	102.13	149.46	0.32
*MS4	0.1638447	0.098	0.069	0.001	0.08	66.48	54.54	150.40	51.23	2
MK4	0.1640729	0.086	0.065	-0.020	0.07	119.01	54.58	172.37	61.09	1.7
S4	0.1666667	0.077	0.067	-0.002	0.07	119.55	67.41	244.28	62.01	1.3
SK4	0.1668948	0.042	0.061	-0.034	0.05	69.07	110.09	263.09	135.05	0.48

2MK5	0.2028035	0.057	0.061	0.028	0.05	68.85	78.94	227.88	91.60	0.86
2SK5	0.2084474	0.088	0.066	-0.009	0.06	118.84	40.13	115.62	43.97	1.8
*2MN6	0.2400221	0.465	0.128	0.023	0.07	97.89	9.05	332.97	17.08	13
*M6	0.2415342	0.733	0.130	0.011	0.07	95.34	5.13	6.59	10.51	32
*2MS6	0.2443561	0.277	0.121	-0.046	0.07	101.83	15.10	62.76	29.69	5.3
2MK6	0.2445843	0.041	0.078	0.021	0.05	87.34	66.94	77.85	154.53	0.28
2SM6	0.2471781	0.079	0.101	-0.014	0.05	104.11	43.01	163.35	101.04	0.61
MSK6	0.2474062	0.029	0.063	-0.014	0.05	35.07	78.75	58.21	146.94	0.21
3MK7	0.2833149	0.035	0.045	0.016	0.04	5.47	104.07	22.57	96.18	0.62
*M8	0.3220456	0.066	0.043	0.003	0.05	112.33	42.07	81.35	43.46	2.4

total var= 77.0202 pred var= 24.2366
percent total var predicted/var original= 31.5 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.2 m

Mooring Number: 7101

File Name: 7101adc-alh.nc

nobs = 3698, ngood = 3674, 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= 0.377, x trend= 0

var(x)= 48.6537 var(xp)= 13.2222 var(xres)= 35.745
percent var predicted/var original= 27.2 %

y0= 0.282, x trend= 0

var(y)= 21.6521 var(yp)= 6.8968 var(yres)= 14.7944
percent var predicted/var original= 31.9 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.948	0.768	0.235	0.76	141.64	53.20	282.84	53.31	1.5
MSF	0.0028219	0.060	0.590	-0.021	0.58	35.91	146.62	78.92	220.74	0.011
ALP1	0.0343966	0.139	0.229	-0.020	0.23	131.28	126.39	166.12	147.56	0.37
2Q1	0.0357064	0.374	0.336	-0.068	0.27	163.41	45.61	52.23	58.55	1.2
Q1	0.0372185	0.132	0.251	-0.062	0.24	20.72	100.05	161.50	142.93	0.27
*O1	0.0387307	0.419	0.273	0.020	0.30	60.33	51.34	304.85	53.68	2.4
NO1	0.0402686	0.094	0.209	0.010	0.19	48.87	121.17	348.43	179.20	0.2
*K1	0.0417807	0.772	0.281	-0.413	0.34	82.92	43.66	322.83	40.32	7.5
*J1	0.0432929	0.461	0.279	-0.282	0.30	24.42	73.47	318.15	89.79	2.7
OO1	0.0448308	0.187	0.194	-0.096	0.21	128.68	93.45	200.04	107.20	0.93
UPS1	0.0463430	0.324	0.240	-0.082	0.21	157.40	48.46	236.16	49.71	1.8
EPS2	0.0761773	0.483	0.944	-0.245	0.73	2.94	67.72	90.56	159.38	0.26
MU2	0.0776895	0.372	0.886	-0.128	0.60	8.79	64.18	171.54	173.84	0.18
N2	0.0789992	1.511	1.226	0.532	0.74	168.23	41.09	256.60	70.04	1.5
*M2	0.0805114	5.484	1.321	3.021	0.76	156.85	16.11	297.05	20.80	17
L2	0.0820236	0.666	0.994	-0.101	0.65	150.68	62.31	262.68	105.70	0.45
S2	0.0833333	1.399	1.019	-0.007	0.93	42.83	40.24	224.18	43.67	1.9
ETA2	0.0850736	0.231	0.761	-0.153	0.52	46.10	77.44	93.47	192.73	0.092
MO3	0.1192421	0.135	0.160	-0.059	0.14	139.91	77.94	330.25	89.41	0.71
M3	0.1207671	0.122	0.172	-0.091	0.16	139.61	106.49	103.30	175.82	0.5
MK3	0.1222921	0.145	0.181	-0.016	0.15	173.53	46.82	229.06	110.27	0.64
SK3	0.1251141	0.143	0.174	-0.111	0.15	5.19	90.53	133.55	143.11	0.68
MN4	0.1595106	0.507	0.457	-0.175	0.28	15.30	30.41	84.61	65.44	1.2
*M4	0.1610228	0.593	0.393	-0.151	0.41	46.88	45.77	97.75	42.01	2.3
SN4	0.1623326	0.121	0.332	0.021	0.21	19.01	54.38	89.40	186.40	0.13
MS4	0.1638447	0.187	0.339	-0.039	0.27	38.36	61.56	159.85	130.95	0.3
S4	0.1666667	0.096	0.319	-0.078	0.22	68.22	70.51	266.07	181.88	0.091
2MK5	0.2028035	0.053	0.129	-0.021	0.10	146.27	64.74	343.23	170.39	0.17
2SK5	0.2084474	0.059	0.107	-0.010	0.10	103.38	120.47	256.07	134.78	0.3
*2MN6	0.2400221	0.432	0.171	0.030	0.24	113.41	30.37	325.24	26.29	6.4
*M6	0.2415342	0.859	0.152	-0.028	0.23	91.57	15.91	16.85	12.08	32
*2MS6	0.2443561	0.270	0.175	0.015	0.17	103.50	53.01	75.30	36.36	2.4
2SM6	0.2471781	0.126	0.127	0.002	0.16	75.97	124.60	30.80	97.14	0.98
3MK7	0.2833149	0.031	0.091	0.005	0.08	179.71	83.07	249.01	255.14	0.12
M8	0.3220456	0.037	0.058	-0.030	0.05	51.83	108.83	149.85	144.37	0.41

total var= 70.3058 pred var= 20.1189
percent total var predicted/var original= 28.6 %

Tidal Analysis of Current at LT-B

ADCP Observations, 17.2 m

Mooring Number: 7191

File Name: 7191adc-alh.nc

nobs = 1730, ngood = 1729, 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= -0.732, x trend= 0

var(x)= 52.9304 var(xp)= 15.6784 var(xres)= 37.3589
percent var predicted/var original= 29.6 %

y0= -0.00624, x trend= 0

var(y)= 44.516 var(yp)= 14.909 var(yres)= 29.6031
percent var predicted/var original= 33.5 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	2.396	1.332	0.448	1.71	114.97	43.25	356.60	47.20	3.2
MSF	0.0028219	1.620	1.510	-0.102	1.32	135.04	55.45	183.99	63.71	1.2
ALP1	0.0343966	0.478	0.586	-0.112	0.58	25.22	75.24	17.35	96.88	0.67
2Q1	0.0357064	0.336	0.499	-0.176	0.53	19.67	89.29	319.27	161.08	0.46
Q1	0.0372185	0.449	0.665	0.039	0.52	29.61	79.94	200.53	109.86	0.46
O1	0.0387307	0.375	0.584	0.043	0.54	98.19	124.32	326.98	111.66	0.41
NO1	0.0402686	0.368	0.561	-0.220	0.53	164.87	104.97	309.33	130.51	0.43
K1	0.0417807	0.468	0.629	0.013	0.53	120.94	111.53	15.39	97.55	0.55
J1	0.0432929	0.393	0.539	-0.040	0.51	20.05	85.61	244.21	123.30	0.53
OO1	0.0448308	0.345	0.412	-0.167	0.37	175.21	94.92	86.51	186.34	0.7
UPS1	0.0463430	0.354	0.423	-0.299	0.48	115.90	119.41	225.08	117.52	0.7
EPS2	0.0761773	0.296	0.620	-0.074	0.57	177.82	93.91	253.12	200.93	0.23
MU2	0.0776895	0.872	0.800	0.212	0.65	165.87	50.65	196.16	57.27	1.2
*N2	0.0789992	1.666	0.840	1.180	0.63	0.09	58.01	119.86	74.31	3.9
*M2	0.0805114	5.943	0.892	3.311	0.89	42.51	13.94	179.57	13.29	44
L2	0.0820236	0.654	0.690	-0.221	0.65	164.42	70.35	2.09	86.44	0.9
*S2	0.0833333	1.667	0.956	0.229	0.66	17.94	26.83	186.23	36.83	3
ETA2	0.0850736	0.480	0.594	-0.231	0.52	24.44	81.81	278.26	111.07	0.65
MO3	0.1192421	0.243	0.196	-0.054	0.19	33.34	60.33	278.04	61.01	1.5
M3	0.1207671	0.218	0.214	-0.089	0.22	140.01	85.83	337.71	84.93	1
MK3	0.1222921	0.193	0.200	-0.111	0.20	147.22	101.22	29.17	102.79	0.93
SK3	0.1251141	0.113	0.163	-0.064	0.18	7.83	147.39	15.82	130.74	0.48
*MN4	0.1595106	0.354	0.170	-0.281	0.18	65.49	89.76	77.19	86.38	4.4
*M4	0.1610228	0.366	0.140	-0.254	0.16	62.17	72.87	129.52	63.86	6.8
SN4	0.1623326	0.123	0.160	-0.055	0.14	48.46	100.93	43.63	102.57	0.59
MS4	0.1638447	0.156	0.160	-0.103	0.16	151.98	116.11	76.95	119.47	0.95
S4	0.1666667	0.071	0.122	0.035	0.12	15.69	99.06	257.39	183.98	0.33
2MK5	0.2028035	0.066	0.109	-0.010	0.10	170.35	130.77	328.07	117.27	0.37
2SK5	0.2084474	0.106	0.120	-0.019	0.11	145.72	89.30	201.96	95.03	0.78
*2MN6	0.2400221	0.809	0.218	0.045	0.15	102.19	10.90	355.14	16.86	14
*M6	0.2415342	0.797	0.230	0.005	0.14	102.63	9.28	7.62	14.71	12
*2MS6	0.2443561	0.464	0.181	0.081	0.14	99.02	20.57	53.40	31.41	6.6
2SM6	0.2471781	0.124	0.145	0.065	0.12	69.53	71.47	156.69	122.51	0.73
3MK7	0.2833149	0.092	0.086	-0.012	0.11	179.63	118.96	187.90	132.89	1.1
*M8	0.3220456	0.130	0.084	-0.002	0.08	73.13	39.53	18.35	43.26	2.4

total var= 97.4464 pred var= 30.5873
percent total var predicted/var original= 31.4 %