

Tidal Analysis of Current at LT-A

ADCP Observations, 22.5 m

Mooring Number: 4381

File Name: 4381adc-alh.nc

nobs = 62, ngood = 61, record length (days) = 2.58

start time: 04-Apr-1994 14:45:00

rayleigh criterion = 1.0

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

x0= -1.23, x trend= 0

var(x)= 48.6326 var(xp)= 39.4549 var(xres)= 9.1618
percent var predicted/var original= 81.1 %

y0= 4.37, x trend= 0

var(y)= 35.6184 var(yp)= 26.4055 var(yres)= 9.6868
percent var predicted/var original= 74.1 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*K1	0.0417807	5.729	1.977	-3.189	2.39	125.07	41.76	167.85	35.74	8.4
*M2	0.0805114	9.144	1.104	0.955	1.21	143.92	7.56	46.02	6.27	69
M3	0.1207671	0.762	0.830	0.495	0.83	136.60	91.86	128.66	118.78	0.84
M4	0.1610228	1.121	1.409	-0.590	1.00	122.29	53.85	254.11	116.21	0.63
2MK5	0.2028035	0.978	1.598	0.052	0.97	131.05	53.79	247.70	113.98	0.37
M6	0.2415342	0.574	0.533	0.345	0.34	152.74	64.30	201.34	107.25	1.2
*3MK7	0.2833149	0.658	0.396	0.243	0.57	111.28	74.26	27.50	42.31	2.8
M8	0.3220456	0.232	0.313	0.179	0.31	58.43	119.50	130.33	127.70	0.55

total var= 84.251 pred var= 65.8604
percent total var predicted/var original= 78.2 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.7 m

Mooring Number: 4511

File Name: 4511adc-alh.nc

nobs = 1481, ngood = 1481, record length (days) = 61.71

start time: 14-Feb-1995 15:45:02

rayleigh criterion = 1.0

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

x0= 0.0974, x trend= 0

var(x)= 80.8804 var(xp)= 67.3277 var(xres)= 13.8066
percent var predicted/var original= 83.2 %

y0= -0.963, x trend= 0

var(y)= 13.9884 var(yp)= 1.3722 var(yres)= 12.6232
percent var predicted/var original= 9.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.826	1.756	-0.155	1.67	140.08	71.02	244.58	67.18	1.1
MSF	0.0028219	0.428	1.381	0.007	1.27	118.09	108.61	1.97	201.28	0.096
ALP1	0.0343966	0.312	0.578	-0.273	0.47	37.50	111.35	309.55	163.13	0.29
2Q1	0.0357064	0.810	0.622	-0.538	0.62	130.69	88.41	229.59	88.02	1.7
Q1	0.0372185	0.362	0.533	0.013	0.49	150.83	87.80	49.03	121.83	0.46
O1	0.0387307	0.579	0.654	-0.101	0.54	4.33	57.69	277.32	69.54	0.78
NO1	0.0402686	0.775	0.735	-0.455	0.60	155.65	69.05	308.06	93.14	1.1
*K1	0.0417807	1.477	0.630	-0.839	0.53	162.01	40.04	109.15	46.31	5.5
J1	0.0432929	0.673	0.553	-0.354	0.58	123.89	95.31	108.71	78.82	1.5
OO1	0.0448308	0.412	0.771	0.223	0.81	140.72	112.26	165.55	146.12	0.29
UPS1	0.0463430	0.834	1.128	-0.310	0.86	142.55	87.93	319.87	107.59	0.55
EPS2	0.0761773	0.350	0.424	0.042	0.36	6.06	79.79	334.39	94.26	0.68
*MU2	0.0776895	0.928	0.472	0.076	0.43	170.20	28.44	191.54	34.53	3.9
*N2	0.0789992	2.113	0.499	-0.254	0.43	166.65	12.53	348.01	15.00	18
*M2	0.0805114	10.640	0.570	0.029	0.43	174.39	2.28	11.87	2.78	3.5e+002
*L2	0.0820236	0.662	0.413	-0.196	0.30	8.92	34.32	230.43	45.43	2.6
*S2	0.0833333	2.430	0.590	0.301	0.45	170.40	10.92	54.98	13.53	17
ETA2	0.0850736	0.439	0.608	0.178	0.51	151.52	107.25	193.51	118.53	0.52
MO3	0.1192421	0.144	0.218	0.061	0.22	39.04	98.84	164.01	134.79	0.43
M3	0.1207671	0.187	0.191	-0.107	0.22	135.65	92.02	209.99	94.54	0.96
MK3	0.1222921	0.147	0.216	-0.079	0.23	50.27	116.06	202.54	143.39	0.46
SK3	0.1251141	0.266	0.254	-0.152	0.25	154.91	84.83	99.99	92.45	1.1
MN4	0.1595106	0.147	0.175	-0.005	0.13	19.15	55.90	100.90	88.72	0.7
*M4	0.1610228	0.561	0.267	-0.075	0.15	173.41	15.51	274.39	26.95	4.4
SN4	0.1623326	0.011	0.156	-0.003	0.12	165.78	87.55	110.43	227.81	0.0052
MS4	0.1638447	0.117	0.160	0.016	0.12	172.75	78.20	323.84	170.29	0.53
*S4	0.1666667	0.239	0.155	-0.038	0.25	79.83	65.43	344.26	45.13	2.4
2MK5	0.2028035	0.111	0.130	-0.010	0.11	126.14	90.34	317.92	95.99	0.72
2SK5	0.2084474	0.075	0.136	0.021	0.12	85.10	149.25	210.33	129.07	0.3
2MN6	0.2400221	0.220	0.177	0.011	0.14	28.90	34.49	342.34	52.03	1.5
*M6	0.2415342	0.458	0.200	0.014	0.14	13.79	14.51	344.93	28.58	5.2
2MS6	0.2443561	0.256	0.208	-0.037	0.11	16.65	28.38	50.43	51.93	1.5
2SM6	0.2471781	0.146	0.167	0.028	0.12	166.67	46.88	243.71	95.19	0.76
3MK7	0.2833149	0.066	0.103	-0.037	0.08	166.70	98.86	174.92	147.39	0.42
M8	0.3220456	0.059	0.068	0.017	0.06	130.14	88.56	1.78	93.37	0.76

total var= 94.8688 pred var= 68.6999
percent total var predicted/var original= 72.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.8 m

Mooring Number: 4791

File Name: 4791adc-alh.nc

nobs = 1308, ngood = 1307, record length (days) = 54.50

start time: 01-Oct-1996 13:45:37

rayleigh criterion = 1.0

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

x0= -0.734, x trend= 0

var(x)= 90.8554 var(xp)= 67.4834 var(xres)= 23.5136
percent var predicted/var original= 74.3 %

y0= 2.14, x trend= 0

var(y)= 22.0856 var(yp)= 5.0033 var(yres)= 16.9853
percent var predicted/var original= 22.7 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.620	1.403	-0.287	1.55	111.66	78.45	209.18	70.09	1.3
MSF	0.0028219	1.649	1.450	-0.205	1.46	147.92	55.96	4.55	77.03	1.3
ALP1	0.0343966	0.529	0.705	-0.061	0.51	5.98	58.49	43.29	114.67	0.56
2Q1	0.0357064	0.468	0.616	-0.194	0.58	75.25	125.31	287.62	99.50	0.58
Q1	0.0372185	0.347	0.630	0.029	0.59	45.66	81.13	0.87	123.58	0.3
O1	0.0387307	0.298	0.599	-0.028	0.49	131.61	92.02	359.00	167.65	0.25
NO1	0.0402686	0.321	0.500	-0.054	0.50	132.83	93.06	157.39	123.08	0.41
K1	0.0417807	0.850	0.646	-0.167	0.77	107.17	60.52	356.94	49.03	1.7
J1	0.0432929	0.734	0.762	-0.379	0.58	18.85	62.55	276.24	90.77	0.93
OO1	0.0448308	0.594	0.977	0.376	0.84	17.77	78.80	303.34	142.12	0.37
UPS1	0.0463430	0.622	0.879	0.347	0.86	106.34	147.75	251.17	127.99	0.5
EPS2	0.0761773	0.330	0.590	-0.146	0.55	43.68	108.68	106.11	162.88	0.31
MU2	0.0776895	0.250	0.580	-0.035	0.54	135.19	102.40	92.84	175.58	0.19
*N2	0.0789992	2.047	0.859	0.297	0.69	7.81	18.59	162.08	25.67	5.7
*M2	0.0805114	11.265	0.946	-0.205	0.67	165.02	3.92	9.65	4.69	1.4e+002
L2	0.0820236	0.404	0.622	-0.055	0.61	134.87	102.82	58.33	137.55	0.42
*S2	0.0833333	2.498	0.885	-0.409	0.74	162.24	20.25	31.89	23.64	8
ETA2	0.0850736	0.824	1.096	-0.390	1.01	171.54	84.47	329.06	123.21	0.57
MO3	0.1192421	0.201	0.269	-0.145	0.30	22.25	121.58	245.95	119.66	0.56
M3	0.1207671	0.275	0.268	-0.114	0.30	136.21	84.02	168.64	84.15	1.1
MK3	0.1222921	0.326	0.298	-0.018	0.29	155.19	71.95	354.75	71.18	1.2
SK3	0.1251141	0.330	0.368	-0.019	0.30	176.50	79.58	2.93	75.72	0.81
MN4	0.1595106	0.283	0.221	0.004	0.26	74.28	69.83	166.18	61.79	1.6
*M4	0.1610228	0.641	0.287	-0.280	0.25	16.35	33.50	19.24	35.23	5
*SN4	0.1623326	0.598	0.341	-0.144	0.30	142.61	30.34	274.91	35.64	3.1
MS4	0.1638447	0.397	0.302	0.264	0.25	170.19	83.34	215.92	90.88	1.7
S4	0.1666667	0.316	0.255	-0.153	0.26	122.00	86.47	183.97	84.70	1.5
2MK5	0.2028035	0.163	0.191	0.012	0.19	131.20	89.96	138.84	84.07	0.73
2SK5	0.2084474	0.247	0.270	0.091	0.20	166.54	64.81	132.82	78.21	0.84
*2MN6	0.2400221	0.279	0.188	0.066	0.19	22.49	58.96	300.80	55.97	2.2
*M6	0.2415342	0.496	0.214	-0.045	0.19	22.31	24.67	343.36	23.60	5.4
2MS6	0.2443561	0.239	0.192	-0.065	0.20	4.07	67.96	56.45	56.21	1.6
2SM6	0.2471781	0.099	0.170	-0.067	0.16	41.72	130.54	234.44	136.28	0.34
3MK7	0.2833149	0.135	0.147	0.058	0.14	31.60	83.54	254.31	85.74	0.85
M8	0.3220456	0.066	0.088	-0.032	0.09	86.19	113.47	184.56	125.69	0.56

total var= 112.9411 pred var= 72.4867
percent total var predicted/var original= 64.2 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.3 m

Mooring Number: 4952

File Name: 4952adc-alh.nc

nobs = 2818, ngood = 2817, record length (days) = 117.42

start time: 12-Feb-1997 13:57:30

rayleigh criterion = 1.0

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

x0= -0.0864, x trend= 0

var(x)= 95.9551 var(xp)= 63.409 var(xres)= 32.5852
percent var predicted/var original= 66.1 %

y0= 0.189, x trend= 0

var(y)= 31.4844 var(yp)= 16.5582 var(yres)= 14.903
percent var predicted/var original= 52.6 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.734	1.585	0.078	1.18	177.14	58.92	133.87	218.14	0.21
MSF	0.0028219	0.777	1.499	-0.012	1.06	152.95	65.11	171.57	128.59	0.27
ALP1	0.0343966	0.414	0.484	-0.132	0.55	136.36	92.86	274.80	107.57	0.73
2Q1	0.0357064	0.445	0.543	-0.220	0.56	121.49	110.04	105.67	102.02	0.67
Q1	0.0372185	0.498	0.562	-0.356	0.58	108.44	117.46	144.40	121.62	0.79
*O1	0.0387307	0.883	0.598	-0.406	0.62	19.70	55.77	249.44	66.57	2.2
NO1	0.0402686	0.302	0.358	0.040	0.42	91.51	111.66	293.37	107.05	0.71
*K1	0.0417807	1.390	0.570	-0.913	0.55	30.19	57.94	298.11	62.39	5.9
J1	0.0432929	0.384	0.535	0.116	0.48	0.15	93.36	138.36	117.43	0.52
OO1	0.0448308	0.477	0.768	-0.161	0.71	34.67	96.01	119.15	125.38	0.39
UPS1	0.0463430	1.056	0.901	-0.453	0.85	135.14	72.37	226.22	76.65	1.4
EPS2	0.0761773	0.218	0.342	-0.134	0.39	54.28	126.71	307.03	144.75	0.4
MU2	0.0776895	0.488	0.451	-0.204	0.35	157.09	65.92	351.55	83.99	1.2
*N2	0.0789992	2.352	0.559	-0.079	0.45	28.32	11.24	158.43	12.31	18
*M2	0.0805114	11.550	0.519	0.165	0.50	26.50	2.13	192.83	2.55	4.9e+002
*L2	0.0820236	0.745	0.456	-0.311	0.52	144.16	55.81	13.97	64.82	2.7
*S2	0.0833333	2.115	0.545	-0.126	0.48	31.08	12.18	219.23	12.76	15
ETA2	0.0850736	0.792	0.632	-0.402	0.73	24.28	73.88	161.91	90.71	1.6
MO3	0.1192421	0.221	0.221	-0.048	0.23	119.02	88.87	189.73	87.04	1
M3	0.1207671	0.093	0.163	0.013	0.15	32.80	120.22	358.42	154.67	0.33
MK3	0.1222921	0.197	0.195	-0.005	0.18	110.16	84.26	295.30	82.66	1
SK3	0.1251141	0.087	0.186	0.001	0.20	74.84	140.98	275.47	160.83	0.22
MN4	0.1595106	0.208	0.172	-0.034	0.17	46.89	56.12	14.71	61.11	1.5
*M4	0.1610228	0.494	0.228	-0.000	0.15	9.91	17.86	57.78	27.45	4.7
*SN4	0.1623326	0.303	0.204	-0.139	0.16	35.50	43.89	108.43	59.07	2.2
MS4	0.1638447	0.318	0.238	-0.115	0.15	1.17	37.83	102.30	57.46	1.8
S4	0.1666667	0.152	0.193	-0.090	0.15	0.82	74.63	36.91	117.61	0.62
2MK5	0.2028035	0.119	0.139	-0.026	0.12	153.29	69.38	222.67	88.64	0.72
2SK5	0.2084474	0.057	0.125	0.002	0.12	52.56	117.43	190.05	160.96	0.21
*2MN6	0.2400221	0.286	0.130	0.035	0.14	65.29	36.03	327.73	32.80	4.8
*M6	0.2415342	0.586	0.153	-0.003	0.15	60.26	16.56	349.95	14.02	15
*2MS6	0.2443561	0.241	0.129	-0.046	0.14	92.97	47.78	67.17	38.93	3.5
2SM6	0.2471781	0.139	0.148	-0.002	0.12	23.46	59.29	34.66	71.58	0.89
3MK7	0.2833149	0.061	0.093	0.020	0.08	176.92	102.76	229.64	126.78	0.44
*M8	0.3220456	0.161	0.098	-0.047	0.08	171.69	37.20	130.93	37.85	2.7

total var= 127.4395 pred var= 79.9672
percent total var predicted/var original= 62.7 %

Tidal Analysis of Current at LT-A

ADCP Observations, 21.9 m

Mooring Number: 5012

File Name: 5012adc-alh.nc

nobs = 2506, ngood = 2505, record length (days) = 104.42

start time: 10-Jun-1997 13:57:29

rayleigh criterion = 1.0

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

x0= 0.966, x trend= 0

var(x)= 132.5161 var(xp)= 96.6099 var(xres)= 35.6839
percent var predicted/var original= 72.9 %

y0= 0.244, x trend= 0

var(y)= 51.4708 var(yp)= 33.9004 var(yres)= 17.4814
percent var predicted/var original= 65.9 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.566	0.977	0.042	0.88	136.70	102.50	179.85	167.17	0.34
MSF	0.0028219	0.796	1.058	-0.183	0.93	172.34	75.28	359.19	140.26	0.57
ALP1	0.0343966	0.257	0.508	0.058	0.39	168.74	89.35	45.60	170.48	0.26
2Q1	0.0357064	0.305	0.466	-0.243	0.48	102.54	157.89	127.00	136.15	0.43
Q1	0.0372185	0.569	0.562	-0.189	0.47	9.97	61.87	221.11	82.76	1
O1	0.0387307	0.318	0.466	-0.200	0.42	36.27	98.14	241.87	132.95	0.46
NO1	0.0402686	0.116	0.320	0.018	0.30	104.67	150.69	331.48	170.87	0.13
*K1	0.0417807	1.285	0.465	-0.484	0.65	71.07	34.89	348.21	31.21	7.6
J1	0.0432929	0.328	0.453	-0.262	0.49	15.69	101.77	218.21	151.16	0.53
OO1	0.0448308	0.705	0.768	-0.267	0.63	31.88	66.87	106.41	69.55	0.84
UPS1	0.0463430	0.887	0.888	-0.202	0.64	6.05	53.87	177.06	72.22	1
EPS2	0.0761773	1.019	1.179	-0.396	0.96	20.96	64.73	208.26	104.34	0.75
MU2	0.0776895	1.429	1.158	-0.658	1.01	37.20	60.59	17.75	79.04	1.5
*N2	0.0789992	2.571	1.229	0.175	1.14	36.71	27.49	172.93	33.85	4.4
*M2	0.0805114	15.120	1.331	-0.875	1.02	30.11	4.08	200.98	4.78	1.3e+002
L2	0.0820236	1.417	1.667	0.057	1.11	29.20	44.93	262.68	75.52	0.72
*S2	0.0833333	2.128	1.386	-0.513	0.96	25.05	36.68	238.74	46.16	2.4
ETA2	0.0850736	1.046	1.762	-0.045	1.39	45.66	82.98	2.18	135.81	0.35
MO3	0.1192421	0.284	0.335	0.009	0.33	33.82	64.35	279.53	104.09	0.72
M3	0.1207671	0.177	0.271	0.018	0.26	47.30	91.90	246.35	113.40	0.43
MK3	0.1222921	0.186	0.278	0.061	0.23	43.15	110.24	284.20	139.28	0.45
SK3	0.1251141	0.322	0.391	-0.110	0.29	1.74	67.71	35.91	89.69	0.68
*MN4	0.1595106	0.476	0.316	0.002	0.28	35.23	38.80	164.60	41.84	2.3
M4	0.1610228	0.224	0.301	-0.039	0.23	30.58	64.58	158.64	85.82	0.55
SN4	0.1623326	0.192	0.312	-0.093	0.24	131.85	102.36	153.09	132.11	0.38
MS4	0.1638447	0.279	0.295	-0.072	0.25	21.42	63.13	136.80	99.26	0.89
S4	0.1666667	0.135	0.274	-0.024	0.21	20.22	77.53	166.49	169.85	0.25
2MK5	0.2028035	0.120	0.208	-0.063	0.17	167.22	103.00	172.59	167.43	0.33
2SK5	0.2084474	0.130	0.212	0.045	0.23	114.14	136.66	200.03	111.91	0.37
2MN6	0.2400221	0.160	0.190	0.061	0.17	81.32	115.97	340.69	91.29	0.72
*M6	0.2415342	0.405	0.187	-0.044	0.21	53.84	30.12	4.82	34.24	4.7
2MS6	0.2443561	0.126	0.182	-0.084	0.17	1.51	100.74	187.86	128.48	0.47
2SM6	0.2471781	0.104	0.182	0.033	0.16	19.29	99.08	260.15	132.19	0.33
3MK7	0.2833149	0.098	0.155	0.024	0.14	62.09	102.98	342.69	127.72	0.4
M8	0.3220456	0.129	0.114	0.053	0.11	1.66	71.27	241.57	78.54	1.3

total var= 183.9869 pred var= 130.5103
percent total var predicted/var original= 70.9 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.5 m

Mooring Number: 5072

File Name: 5072adc-alh.nc

nobs = 3359, ngood = 3355, record length (days) = 139.96

start time: 23-Sep-1997 15:57:30

rayleigh criterion = 1.0

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

x0= 0.49, x trend= 0

var(x)= 82.8895 var(xp)= 64.0579 var(xres)= 18.7911

percent var predicted/var original= 77.3 %

y0= -0.397, x trend= 0

var(y)= 23.6981 var(yp)= 7.1282 var(yres)= 16.5392

percent var predicted/var original= 30.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	1.326	0.915	-0.552	1.00	127.78	61.93	217.54	66.06	2.1
MSF	0.0028219	0.612	0.839	0.002	0.84	144.63	108.23	43.45	143.35	0.53
ALP1	0.0343966	0.412	0.390	-0.066	0.31	9.18	53.69	72.95	67.78	1.1
2Q1	0.0357064	0.382	0.343	0.026	0.30	129.71	67.92	358.15	70.62	1.2
Q1	0.0372185	0.181	0.300	-0.151	0.31	78.25	153.19	258.53	153.32	0.36
O1	0.0387307	0.367	0.344	-0.005	0.29	20.59	66.85	268.68	66.85	1.1
NO1	0.0402686	0.155	0.242	-0.114	0.22	27.74	118.45	281.20	154.64	0.41
*K1	0.0417807	0.718	0.346	0.042	0.29	17.79	26.81	320.48	34.81	4.3
J1	0.0432929	0.242	0.288	-0.048	0.26	96.26	117.85	311.80	101.52	0.71
OO1	0.0448308	0.282	0.369	-0.032	0.37	5.30	86.86	29.05	115.13	0.59
UPS1	0.0463430	0.291	0.433	-0.112	0.40	20.16	95.98	273.33	120.11	0.45
*EPS2	0.0761773	0.510	0.339	-0.107	0.27	20.46	37.95	290.30	43.78	2.3
MU2	0.0776895	0.377	0.292	0.078	0.33	79.83	63.19	63.25	49.05	1.7
*N2	0.0789992	2.274	0.341	-0.006	0.35	26.92	7.94	165.55	8.77	44
*M2	0.0805114	11.012	0.283	0.189	0.28	16.77	1.72	193.65	1.87	1.5e+003
*L2	0.0820236	0.907	0.377	-0.374	0.34	169.85	31.15	100.43	35.18	5.8
*S2	0.0833333	1.638	0.332	-0.095	0.27	27.12	10.02	233.12	11.15	24
*ETA2	0.0850736	0.850	0.509	-0.284	0.49	177.13	42.97	209.56	50.32	2.8
MO3	0.1192421	0.120	0.112	0.018	0.13	22.95	96.43	313.98	79.06	1.2
M3	0.1207671	0.134	0.098	-0.007	0.10	145.98	56.63	322.39	52.68	1.9
MK3	0.1222921	0.082	0.110	-0.063	0.10	167.43	136.04	265.56	158.04	0.55
SK3	0.1251141	0.055	0.095	-0.010	0.10	173.49	132.83	320.67	189.71	0.33
MN4	0.1595106	0.182	0.130	0.051	0.11	160.47	40.06	216.52	54.26	2
*M4	0.1610228	0.273	0.129	0.032	0.13	33.97	28.09	90.89	31.28	4.5
*SN4	0.1623326	0.155	0.109	0.065	0.13	62.15	79.07	227.67	70.07	2
MS4	0.1638447	0.124	0.123	-0.101	0.12	22.92	105.36	118.37	121.22	1
S4	0.1666667	0.135	0.127	-0.045	0.13	54.81	80.29	134.05	76.69	1.1
2MK5	0.2028035	0.128	0.100	0.027	0.11	42.68	53.04	212.57	59.00	1.6
2SK5	0.2084474	0.088	0.099	0.004	0.11	29.64	71.56	5.98	84.91	0.8
*2MN6	0.2400221	0.349	0.109	0.072	0.11	31.69	18.77	288.16	26.01	10
*M6	0.2415342	0.564	0.119	0.092	0.12	33.04	13.00	343.52	12.96	22
*2MS6	0.2443561	0.212	0.132	-0.046	0.12	25.25	42.79	25.86	45.62	2.6
2SM6	0.2471781	0.106	0.109	-0.024	0.11	5.29	69.92	71.70	85.69	0.95
3MK7	0.2833149	0.092	0.070	-0.026	0.09	87.16	75.85	41.68	71.71	1.7
M8	0.3220456	0.055	0.059	0.019	0.06	10.90	86.23	309.63	96.17	0.85

total var= 106.5876 pred var= 71.1861

percent total var predicted/var original= 66.8 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.4 m

Mooring Number: 5162

File Name: 5162adc-alh.nc

nobs = 3046, ngood = 3045, record length (days) = 126.92

start time: 10-Feb-1998 15:57:30

rayleigh criterion = 1.0

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

x0= 0.359, x trend= 0

var(x)= 121.3716 var(xp)= 80.9669 var(xres)= 40.6008
percent var predicted/var original= 66.7 %

y0= -0.484, x trend= 0

var(y)= 37.7529 var(yp)= 1.208 var(yres)= 36.5651
percent var predicted/var original= 3.2 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.610	2.296	0.081	2.42	124.11	92.05	78.52	108.48	0.49
MSF	0.0028219	2.439	2.574	-0.700	2.43	137.93	83.24	118.77	75.95	0.9
ALP1	0.0343966	0.367	0.595	-0.028	0.65	172.19	77.07	204.38	151.28	0.38
2Q1	0.0357064	0.539	0.723	-0.478	0.70	113.23	147.38	202.14	127.06	0.55
Q1	0.0372185	0.548	0.642	-0.179	0.71	122.32	112.17	61.82	111.32	0.73
O1	0.0387307	0.675	0.788	-0.610	0.69	23.82	114.02	275.84	149.16	0.74
NO1	0.0402686	0.332	0.504	-0.035	0.46	171.27	83.95	278.60	138.47	0.43
*K1	0.0417807	1.463	0.941	-0.610	0.63	4.95	41.50	269.48	51.65	2.4
J1	0.0432929	0.842	0.735	-0.317	0.74	128.09	67.69	198.64	72.63	1.3
OO1	0.0448308	0.560	0.944	-0.368	0.82	168.85	107.67	291.39	186.55	0.35
UPS1	0.0463430	0.222	0.943	-0.137	0.89	174.17	101.21	43.04	224.14	0.055
EPS2	0.0761773	0.528	0.705	-0.158	0.50	172.29	56.60	43.23	120.32	0.56
MU2	0.0776895	0.267	0.465	0.081	0.44	166.53	77.27	197.04	170.65	0.33
*N2	0.0789992	2.992	0.747	-0.197	0.47	0.38	9.93	156.31	15.33	16
*M2	0.0805114	11.681	0.782	-0.276	0.47	4.65	2.39	196.85	3.61	2.2e+002
*L2	0.0820236	1.373	0.794	-0.639	0.64	21.58	38.47	282.24	50.08	3
*S2	0.0833333	2.422	0.771	-0.470	0.49	5.77	13.26	217.07	19.81	9.9
ETA2	0.0850736	0.505	0.753	-0.052	0.63	162.47	71.23	300.57	160.27	0.45
MO3	0.1192421	0.135	0.222	-0.057	0.24	28.70	95.92	20.83	164.00	0.37
M3	0.1207671	0.154	0.233	-0.039	0.22	137.58	96.27	163.15	109.93	0.44
MK3	0.1222921	0.203	0.269	0.076	0.22	136.03	89.99	177.70	98.73	0.57
SK3	0.1251141	0.147	0.240	-0.108	0.22	137.74	100.14	162.44	150.83	0.37
MN4	0.1595106	0.258	0.225	0.067	0.21	165.50	60.06	225.24	76.06	1.3
*M4	0.1610228	0.552	0.284	-0.052	0.24	155.56	24.73	237.84	34.96	3.8
SN4	0.1623326	0.207	0.250	-0.012	0.22	1.86	71.27	101.30	105.84	0.68
MS4	0.1638447	0.229	0.262	0.067	0.20	8.59	60.07	156.53	90.97	0.77
S4	0.1666667	0.267	0.252	-0.097	0.23	17.32	67.13	153.31	91.40	1.1
2MK5	0.2028035	0.165	0.188	-0.001	0.16	27.97	80.52	252.65	76.04	0.77
2SK5	0.2084474	0.071	0.148	0.056	0.15	121.77	135.44	34.23	166.65	0.23
*2MN6	0.2400221	0.267	0.143	0.139	0.13	42.69	57.90	291.91	60.16	3.5
*M6	0.2415342	0.498	0.164	-0.029	0.14	27.53	16.53	345.14	21.02	9.2
*2MS6	0.2443561	0.230	0.158	0.026	0.16	44.22	43.51	58.14	44.79	2.1
2SM6	0.2471781	0.132	0.130	-0.015	0.14	123.81	73.87	30.90	81.41	1
3MK7	0.2833149	0.068	0.122	0.044	0.10	41.97	105.24	124.30	152.90	0.31
M8	0.3220456	0.105	0.111	0.030	0.09	169.41	62.15	137.11	75.70	0.89

total var= 159.1245 pred var= 82.1749
percent total var predicted/var original= 51.6 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.1 m

Mooring Number: 5302

File Name: 5302adc-alh.nc

nobs = 2516, ngood = 2515, record length (days) = 104.83

start time: 17-Jun-1998 15:52:30

rayleigh criterion = 1.0

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

x0= 0.815, x trend= 0

var(x)= 150.5717 var(xp)= 125.8053 var(xres)= 24.7018
percent var predicted/var original= 83.6 %

y0= -0.726, x trend= 0

var(y)= 17.5667 var(yp)= 4.2461 var(yres)= 13.3187
percent var predicted/var original= 24.2 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.991	0.899	0.402	0.85	111.61	71.60	201.39	79.07	1.2
MSF	0.0028219	0.698	0.803	0.117	0.71	33.73	93.73	81.63	90.66	0.76
ALP1	0.0343966	0.293	0.280	-0.130	0.22	10.99	57.92	87.53	85.57	1.1
2Q1	0.0357064	0.105	0.224	-0.039	0.18	65.47	129.87	54.50	151.19	0.22
Q1	0.0372185	0.225	0.241	0.019	0.24	74.05	101.09	96.63	81.40	0.87
O1	0.0387307	0.363	0.269	0.106	0.28	42.55	60.33	303.51	61.27	1.8
NO1	0.0402686	0.175	0.166	0.027	0.19	125.75	90.62	152.62	85.53	1.1
*K1	0.0417807	0.811	0.248	-0.006	0.29	51.03	23.40	348.18	20.28	11
J1	0.0432929	0.155	0.238	-0.006	0.23	137.69	89.82	297.51	133.59	0.42
OO1	0.0448308	0.350	0.348	-0.164	0.31	171.02	66.03	143.89	100.88	1
UPS1	0.0463430	0.209	0.324	0.134	0.28	29.08	104.50	204.59	139.61	0.41
EPS2	0.0761773	0.421	0.720	-0.215	0.51	137.67	97.95	243.08	137.46	0.34
MU2	0.0776895	0.356	0.713	-0.202	0.60	24.12	91.91	255.37	170.77	0.25
*N2	0.0789992	3.114	1.408	-0.703	0.73	171.10	14.40	336.40	23.24	4.9
*M2	0.0805114	14.756	1.241	-1.380	0.77	173.27	3.15	13.40	4.36	1.4e+002
*L2	0.0820236	2.506	1.179	-0.985	0.89	155.32	29.61	48.91	39.18	4.5
*S2	0.0833333	2.899	1.181	-0.641	0.81	167.82	18.56	47.84	30.67	6
ETA2	0.0850736	0.235	1.193	0.033	0.87	171.50	78.42	100.52	205.95	0.039
MO3	0.1192421	0.168	0.207	-0.034	0.19	38.89	62.39	222.78	123.34	0.66
M3	0.1207671	0.173	0.165	-0.095	0.22	104.58	137.53	146.67	84.27	1.1
MK3	0.1222921	0.271	0.290	0.031	0.16	172.74	43.68	174.00	82.95	0.87
SK3	0.1251141	0.101	0.218	-0.025	0.21	87.73	180.64	261.64	136.59	0.21
MN4	0.1595106	0.189	0.287	-0.088	0.20	158.45	56.14	10.79	140.02	0.43
M4	0.1610228	0.427	0.340	-0.271	0.20	0.71	58.80	153.17	101.09	1.6
SN4	0.1623326	0.113	0.297	-0.013	0.18	158.05	60.19	356.24	174.75	0.14
MS4	0.1638447	0.582	0.414	-0.203	0.20	170.71	24.51	311.66	52.22	2
S4	0.1666667	0.169	0.245	-0.026	0.25	62.74	88.63	152.94	113.51	0.48
2MK5	0.2028035	0.140	0.143	0.032	0.13	142.86	72.20	222.64	86.84	0.95
*2SK5	0.2084474	0.267	0.163	-0.089	0.15	26.12	44.38	309.18	48.69	2.7
2MN6	0.2400221	0.240	0.170	-0.034	0.13	23.11	27.62	3.37	54.55	2
*M6	0.2415342	0.434	0.204	-0.062	0.14	28.65	20.01	6.93	25.45	4.5
*2MS6	0.2443561	0.300	0.194	-0.045	0.11	20.07	26.58	55.86	39.05	2.4
2SM6	0.2471781	0.143	0.163	-0.012	0.11	166.61	52.16	114.86	73.83	0.77
3MK7	0.2833149	0.123	0.104	0.020	0.09	151.93	50.86	189.76	68.51	1.4
*M8	0.3220456	0.105	0.062	-0.028	0.07	129.81	41.34	52.56	40.99	2.9

total var= 168.1384 pred var= 130.0513
percent total var predicted/var original= 77.3 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.7 m

Mooring Number: 5402

File Name: 5402adc-alh.nc

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

start time: 30-Sep-1998 13:52:30

rayleigh criterion = 1.0

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

x0= -1.39, x trend= 0

var(x)= 99.547 var(xp)= 73.8897 var(xres)= 25.6422
percent var predicted/var original= 74.2 %

y0= 1.68, x trend= 0

var(y)= 18.9018 var(yp)= 1.7077 var(yres)= 17.1714
percent var predicted/var original= 9.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	1.813	1.080	-0.340	1.25	137.74	46.30	243.84	48.74	2.8
MSF	0.0028219	0.899	0.978	0.089	0.96	128.21	94.37	249.23	96.68	0.84
ALP1	0.0343966	0.505	0.456	-0.279	0.46	78.23	96.54	227.20	78.75	1.2
2Q1	0.0357064	0.189	0.438	0.031	0.38	46.55	94.67	182.91	152.37	0.19
Q1	0.0372185	0.316	0.470	-0.197	0.43	53.04	110.98	247.00	129.06	0.45
O1	0.0387307	0.836	0.645	0.023	0.51	152.24	40.31	49.28	49.01	1.7
NO1	0.0402686	0.478	0.496	-0.167	0.36	16.10	55.48	284.88	73.32	0.93
*K1	0.0417807	0.907	0.586	-0.197	0.40	2.23	33.55	280.93	49.29	2.4
J1	0.0432929	0.337	0.478	-0.165	0.42	171.01	87.60	276.87	120.70	0.5
OO1	0.0448308	0.249	0.583	-0.039	0.47	164.55	87.86	299.30	164.09	0.18
UPS1	0.0463430	0.370	0.639	0.159	0.57	138.07	97.67	342.49	147.53	0.34
EPS2	0.0761773	0.157	0.320	0.094	0.30	161.28	112.66	359.77	158.14	0.24
MU2	0.0776895	0.336	0.309	-0.125	0.36	100.90	90.37	261.75	79.39	1.2
*N2	0.0789992	2.504	0.429	-0.169	0.36	9.86	7.59	158.56	9.99	34
*M2	0.0805114	11.240	0.420	-0.166	0.34	5.64	1.78	192.27	2.12	7.2e+002
*L2	0.0820236	0.894	0.449	-0.188	0.33	161.35	24.88	90.37	33.52	4
*S2	0.0833333	1.739	0.419	0.042	0.38	3.48	12.21	223.91	15.26	17
ETA2	0.0850736	0.462	0.435	-0.100	0.43	132.00	72.15	267.24	79.28	1.1
MO3	0.1192421	0.172	0.165	0.058	0.21	75.11	88.22	73.58	79.48	1.1
M3	0.1207671	0.126	0.151	-0.048	0.13	25.60	95.33	89.21	93.73	0.7
MK3	0.1222921	0.149	0.163	-0.115	0.18	88.15	119.21	214.29	95.07	0.84
SK3	0.1251141	0.218	0.170	-0.131	0.16	13.35	73.82	191.54	89.16	1.6
MN4	0.1595106	0.186	0.164	-0.093	0.15	167.79	68.36	212.26	93.80	1.3
*M4	0.1610228	0.542	0.241	-0.139	0.14	1.43	20.03	54.48	27.59	5
*SN4	0.1623326	0.252	0.174	-0.203	0.15	31.57	87.75	127.16	111.39	2.1
MS4	0.1638447	0.307	0.228	0.025	0.15	2.49	31.09	127.00	47.97	1.8
S4	0.1666667	0.058	0.147	-0.015	0.14	173.74	105.73	357.99	224.95	0.15
2MK5	0.2028035	0.115	0.100	0.029	0.12	87.16	84.77	133.96	74.47	1.3
2SK5	0.2084474	0.141	0.133	0.041	0.13	143.97	62.20	161.04	69.99	1.1
*2MN6	0.2400221	0.346	0.133	-0.032	0.13	27.62	22.17	298.61	21.71	6.8
*M6	0.2415342	0.393	0.123	-0.023	0.12	31.38	17.65	350.01	18.60	10
*2MS6	0.2443561	0.200	0.127	0.010	0.12	21.30	36.70	61.69	44.42	2.5
2SM6	0.2471781	0.096	0.103	0.002	0.12	46.93	87.15	32.29	89.00	0.86
3MK7	0.2833149	0.069	0.085	-0.018	0.08	178.50	114.27	292.20	132.58	0.67
*M8	0.3220456	0.079	0.056	0.012	0.05	178.37	46.06	127.50	48.66	2

total var= 118.4488 pred var= 75.5974
percent total var predicted/var original= 63.8 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.4 m

Mooring Number: 5522

File Name: 5522adc-alh.nc

nobs = 2163, ngood = 2148, record length (days) = 90.13

start time: 10-Feb-1999 14:52:30

rayleigh criterion = 1.0

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

x0= -0.525, x trend= 0

var(x)= 94.5554 var(xp)= 61.2674 var(xres)= 32.9802
percent var predicted/var original= 64.8 %

y0= 0.853, x trend= 0

var(y)= 26.2494 var(yp)= 1.8632 var(yres)= 24.3124
percent var predicted/var original= 7.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.384	1.306	-0.076	1.18	15.28	167.90	138.90	205.62	0.087
MSF	0.0028219	0.815	1.357	0.522	1.44	179.28	151.35	20.59	135.62	0.36
ALP1	0.0343966	0.735	0.695	-0.387	0.66	31.21	74.46	344.35	95.38	1.1
2Q1	0.0357064	0.462	0.598	-0.007	0.55	142.50	82.58	250.62	102.56	0.6
*Q1	0.0372185	1.191	0.722	-0.554	0.62	156.30	49.37	79.27	60.09	2.7
O1	0.0387307	0.703	0.690	-0.234	0.61	151.85	71.08	50.66	84.86	1
NO1	0.0402686	0.703	0.588	-0.088	0.68	123.27	75.34	237.82	67.51	1.4
*K1	0.0417807	2.112	0.729	-1.025	0.62	168.90	25.86	124.36	30.28	8.4
J1	0.0432929	0.501	0.541	-0.163	0.61	32.95	78.58	219.47	99.15	0.86
OO1	0.0448308	0.581	0.846	-0.418	0.77	137.49	124.51	249.79	130.79	0.47
UPS1	0.0463430	1.029	0.965	-0.417	0.81	8.76	66.51	95.00	94.35	1.1
EPS2	0.0761773	0.523	0.656	-0.208	0.56	31.74	75.46	88.26	96.87	0.64
MU2	0.0776895	0.393	0.635	-0.163	0.53	50.52	91.21	342.55	110.65	0.38
*N2	0.0789992	2.305	0.924	-0.118	0.58	6.44	14.49	167.46	22.59	6.2
*M2	0.0805114	10.175	0.917	0.447	0.54	7.45	3.29	195.95	5.56	1.2e+002
*L2	0.0820236	1.186	0.816	-0.104	0.54	0.83	27.19	225.14	41.64	2.1
*S2	0.0833333	1.621	0.934	0.346	0.60	3.01	24.03	212.47	37.90	3
ETA2	0.0850736	0.386	0.677	0.130	0.70	78.97	146.33	240.75	119.52	0.33
MO3	0.1192421	0.318	0.310	-0.054	0.25	173.42	53.97	275.31	68.00	1.1
M3	0.1207671	0.208	0.217	0.051	0.20	14.55	68.23	233.67	80.45	0.92
MK3	0.1222921	0.195	0.253	-0.048	0.22	112.63	113.46	248.43	94.50	0.6
SK3	0.1251141	0.257	0.260	0.035	0.25	18.63	65.20	35.87	78.76	0.98
MN4	0.1595106	0.279	0.264	-0.132	0.20	152.24	61.24	257.25	82.65	1.1
*M4	0.1610228	0.745	0.371	-0.295	0.23	2.86	24.43	42.92	33.70	4
SN4	0.1623326	0.280	0.208	-0.139	0.26	119.64	92.44	344.43	83.85	1.8
MS4	0.1638447	0.341	0.274	-0.055	0.24	16.20	45.51	94.47	57.52	1.5
S4	0.1666667	0.246	0.273	-0.099	0.19	12.10	65.59	112.78	95.48	0.81
2MK5	0.2028035	0.130	0.154	0.052	0.14	0.18	74.49	311.50	120.56	0.71
2SK5	0.2084474	0.058	0.155	-0.037	0.14	134.29	123.63	175.41	186.95	0.14
*2MN6	0.2400221	0.315	0.188	0.000	0.13	24.36	25.47	318.63	34.64	2.8
*M6	0.2415342	0.564	0.199	0.010	0.15	24.52	15.19	346.77	19.13	8.1
2MS6	0.2443561	0.238	0.181	0.009	0.13	29.14	36.65	55.77	47.46	1.7
2SM6	0.2471781	0.100	0.138	-0.074	0.12	166.20	96.46	222.67	132.76	0.53
3MK7	0.2833149	0.062	0.088	0.018	0.09	55.72	119.96	225.21	121.46	0.49
M8	0.3220456	0.074	0.063	0.030	0.07	44.55	74.37	341.27	82.75	1.4

total var= 120.8048 pred var= 63.1306
percent total var predicted/var original= 52.3 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.4 m

Mooring Number: 5691

File Name: 5691adc-alh.nc

nobs = 3180, ngood = 3179, record length (days) = 132.50

start time: 11-May-1999 15:52:30

rayleigh criterion = 1.0

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

x0= -0.0181, x trend= 0

var(x)= 135.4496 var(xp)= 109.3043 var(xres)= 26.6228

percent var predicted/var original= 80.7 %

y0= 0.065, x trend= 0

var(y)= 14.3131 var(yp)= 1.1349 var(yres)= 13.1893

percent var predicted/var original= 7.9 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.924	0.708	0.073	0.81	124.87	59.15	7.57	54.13	1.7
MSF	0.0028219	0.277	0.621	-0.032	0.53	6.40	89.61	252.10	169.48	0.2
ALP1	0.0343966	0.236	0.281	-0.153	0.28	166.70	95.68	128.14	127.45	0.71
2Q1	0.0357064	0.193	0.288	-0.087	0.27	141.38	106.92	42.52	116.11	0.45
Q1	0.0372185	0.399	0.294	-0.167	0.31	108.02	84.41	1.98	69.57	1.8
O1	0.0387307	0.528	0.404	-0.002	0.30	173.39	36.68	103.40	44.73	1.7
NO1	0.0402686	0.427	0.363	-0.345	0.34	177.07	108.98	170.47	122.27	1.4
*K1	0.0417807	1.168	0.365	-0.296	0.31	29.50	19.57	322.54	21.54	10
J1	0.0432929	0.268	0.273	-0.093	0.26	26.22	74.44	358.40	81.89	0.96
OO1	0.0448308	0.414	0.543	-0.054	0.40	172.50	69.53	237.58	86.67	0.58
UPS1	0.0463430	0.191	0.416	-0.073	0.33	176.23	107.51	228.89	207.30	0.21
EPS2	0.0761773	0.301	0.502	-0.066	0.40	1.22	63.10	273.21	160.42	0.36
MU2	0.0776895	0.136	0.527	-0.018	0.39	60.51	104.14	115.14	189.20	0.066
*N2	0.0789992	2.422	0.847	0.152	0.49	3.39	10.37	157.82	18.15	8.2
*M2	0.0805114	13.992	0.826	-0.743	0.46	4.06	1.98	201.52	3.26	2.9e+002
L2	0.0820236	0.841	0.738	-0.138	0.43	3.37	32.57	250.17	51.66	1.3
*S2	0.0833333	1.958	0.914	-0.196	0.50	7.52	16.05	234.19	21.95	4.6
ETA2	0.0850736	0.558	0.673	-0.408	0.61	32.67	92.03	102.14	141.68	0.69
MO3	0.1192421	0.323	0.253	-0.164	0.20	175.32	49.69	136.52	80.88	1.6
M3	0.1207671	0.156	0.175	-0.091	0.17	53.52	92.10	282.72	107.94	0.79
MK3	0.1222921	0.372	0.301	-0.067	0.17	2.73	29.03	300.96	47.58	1.5
SK3	0.1251141	0.211	0.256	-0.054	0.16	0.80	47.09	8.21	99.57	0.68
MN4	0.1595106	0.156	0.236	0.032	0.17	150.83	61.39	278.21	112.31	0.44
M4	0.1610228	0.214	0.252	-0.072	0.17	10.99	48.77	148.71	95.80	0.72
SN4	0.1623326	0.280	0.254	-0.063	0.19	156.21	44.68	208.75	62.32	1.2
MS4	0.1638447	0.152	0.226	-0.012	0.16	154.01	56.08	317.62	116.49	0.45
S4	0.1666667	0.145	0.240	-0.102	0.17	172.37	69.64	352.14	129.47	0.36
*2MK5	0.2028035	0.163	0.114	-0.074	0.16	74.81	95.98	121.87	69.57	2
2SK5	0.2084474	0.100	0.134	-0.040	0.13	26.97	74.30	257.63	133.96	0.56
*2MN6	0.2400221	0.235	0.131	-0.009	0.10	31.98	27.07	311.40	32.13	3.2
*M6	0.2415342	0.549	0.129	-0.146	0.11	28.08	12.88	15.43	16.53	18
*2MS6	0.2443561	0.223	0.120	-0.086	0.12	35.61	36.83	89.27	44.37	3.4
2SM6	0.2471781	0.113	0.124	0.016	0.09	153.55	47.70	128.80	72.54	0.82
3MK7	0.2833149	0.051	0.088	0.015	0.07	148.98	78.55	45.61	113.95	0.34
*M8	0.3220456	0.092	0.049	-0.049	0.06	114.53	62.03	44.55	56.26	3.5

total var= 149.7627 pred var= 110.4392

percent total var predicted/var original= 73.7 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.6 m

Mooring Number: 5911

File Name: 5911adc-alh.nc

nobs = 3526, ngood = 3524, record length (days) = 146.92

start time: 21-Sep-1999 15:50:00

rayleigh criterion = 1.0

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

x0= -1.46, x trend= 0

var(x)= 80.5334 var(xp)= 61.9748 var(xres)= 18.571
percent var predicted/var original= 77.0 %

y0= 0.99, x trend= 0

var(y)= 19.8464 var(yp)= 1.3678 var(yres)= 18.4791
percent var predicted/var original= 6.9 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.410	1.240	-0.012	1.12	122.37	53.85	226.42	56.27	1.3
MSF	0.0028219	0.673	1.049	-0.015	1.01	136.80	92.15	35.88	110.84	0.41
ALP1	0.0343966	0.283	0.340	0.169	0.31	119.77	107.08	318.50	105.78	0.7
2Q1	0.0357064	0.267	0.247	0.024	0.30	163.32	93.29	237.20	116.10	1.2
Q1	0.0372185	0.119	0.305	-0.024	0.27	62.55	143.32	342.90	176.95	0.15
O1	0.0387307	0.408	0.329	0.219	0.33	3.05	76.05	244.40	80.17	1.5
NO1	0.0402686	0.616	0.565	0.104	0.52	107.80	70.52	317.94	62.52	1.2
K1	0.0417807	0.352	0.337	0.259	0.33	71.97	102.57	6.31	111.05	1.1
J1	0.0432929	0.363	0.330	-0.212	0.32	177.61	93.45	145.33	106.14	1.2
OO1	0.0448308	0.374	0.491	0.027	0.51	131.20	99.56	342.13	104.23	0.58
UPS1	0.0463430	0.362	0.462	-0.043	0.42	158.12	92.16	122.11	100.86	0.62
EPS2	0.0761773	0.190	0.280	-0.078	0.20	129.64	102.16	45.30	120.52	0.46
MU2	0.0776895	0.183	0.240	0.030	0.27	139.50	67.29	240.50	133.03	0.59
*N2	0.0789992	2.303	0.452	0.238	0.30	5.08	7.48	154.34	11.00	26
*M2	0.0805114	10.573	0.381	-0.017	0.29	8.04	1.67	193.22	2.30	7.7e+002
*L2	0.0820236	0.543	0.311	-0.246	0.23	173.83	38.74	78.94	54.15	3.1
*S2	0.0833333	1.504	0.402	0.202	0.32	6.07	11.74	229.41	16.19	14
ETA2	0.0850736	0.192	0.252	-0.063	0.24	134.09	101.98	345.96	136.76	0.58
MO3	0.1192421	0.077	0.096	-0.007	0.10	125.14	115.62	134.29	126.09	0.64
M3	0.1207671	0.121	0.112	-0.039	0.10	162.67	69.85	13.59	91.69	1.2
*MK3	0.1222921	0.187	0.114	0.045	0.15	101.50	60.58	286.25	55.72	2.7
SK3	0.1251141	0.049	0.098	-0.016	0.11	143.45	115.84	245.21	160.93	0.25
*MN4	0.1595106	0.215	0.134	-0.089	0.13	145.24	53.72	204.90	50.48	2.6
*M4	0.1610228	0.375	0.152	-0.003	0.14	154.47	21.69	229.78	24.82	6.1
SN4	0.1623326	0.124	0.124	0.033	0.11	33.46	83.99	86.41	76.55	1
*MS4	0.1638447	0.290	0.132	0.010	0.14	159.62	28.85	260.45	35.88	4.8
S4	0.1666667	0.134	0.116	0.012	0.13	33.74	72.60	106.64	72.96	1.3
2MK5	0.2028035	0.033	0.067	0.010	0.06	80.26	122.90	354.24	155.76	0.24
*2SK5	0.2084474	0.141	0.085	-0.010	0.09	18.78	42.01	75.34	42.21	2.8
*2MN6	0.2400221	0.387	0.099	-0.031	0.10	25.20	15.07	312.06	15.65	15
*M6	0.2415342	0.565	0.106	0.055	0.10	26.20	9.20	343.54	10.50	28
*2MS6	0.2443561	0.194	0.101	0.057	0.09	18.10	32.34	30.07	39.06	3.7
2SM6	0.2471781	0.077	0.081	0.014	0.08	6.05	82.71	307.81	87.44	0.91
3MK7	0.2833149	0.063	0.061	0.014	0.06	95.68	86.21	179.31	85.04	1.1
M8	0.3220456	0.065	0.052	0.034	0.05	173.67	71.18	112.75	78.23	1.5

total var= 100.3798 pred var= 63.3426
percent total var predicted/var original= 63.1 %

Tidal Analysis of Current at LT-A

ADCP Observations, 21.9 m

Mooring Number: 6111

File Name: 6111adc-alh.nc

nobs = 2012, ngood = 2011, record length (days) = 83.83

start time: 15-Feb-2000 16:52:30

rayleigh criterion = 1.0

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

x0= -0.212, x trend= 0

var(x)= 101.1331 var(xp)= 76.7735 var(xres)= 25.0965
percent var predicted/var original= 75.9 %

y0= -0.308, x trend= 0

var(y)= 20.1846 var(yp)= 5.1578 var(yres)= 15.2008
percent var predicted/var original= 25.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	4.044	1.701	-0.161	1.66	134.19	26.08	332.75	19.94	5.7
MSF	0.0028219	1.105	1.292	0.049	1.13	151.10	65.14	182.60	106.14	0.73
ALP1	0.0343966	0.242	0.648	-0.191	0.66	141.87	130.89	217.24	221.32	0.14
2Q1	0.0357064	0.585	0.738	-0.360	0.77	80.82	114.39	59.05	123.25	0.63
Q1	0.0372185	0.188	0.615	0.029	0.52	82.27	154.46	27.52	199.21	0.093
O1	0.0387307	0.295	0.710	0.228	0.55	31.95	98.93	309.73	195.30	0.17
NO1	0.0402686	0.798	1.451	-0.357	1.48	50.97	118.59	191.39	138.91	0.3
K1	0.0417807	1.066	0.863	-0.319	0.86	177.81	54.67	120.32	75.75	1.5
J1	0.0432929	0.369	0.704	0.032	0.63	151.31	89.06	235.85	150.44	0.28
OO1	0.0448308	1.071	1.190	-0.092	1.11	165.49	74.30	224.57	104.95	0.81
UPS1	0.0463430	0.810	1.063	-0.178	0.86	155.86	84.72	213.67	91.58	0.58
EPS2	0.0761773	0.266	0.384	-0.004	0.37	165.46	92.51	104.43	134.84	0.48
MU2	0.0776895	0.419	0.410	-0.089	0.38	154.77	77.40	185.91	89.21	1
*N2	0.0789992	2.173	0.588	-0.011	0.46	1.33	12.87	148.73	15.91	14
*M2	0.0805114	11.314	0.620	0.533	0.50	5.03	2.45	192.60	2.83	3.3e+002
L2	0.0820236	0.228	0.368	0.086	0.27	54.83	107.69	292.45	137.00	0.38
*S2	0.0833333	2.266	0.538	-0.046	0.42	14.47	12.72	244.63	16.11	18
ETA2	0.0850736	0.396	0.554	-0.058	0.47	9.04	67.85	200.03	95.52	0.51
MO3	0.1192421	0.259	0.297	-0.002	0.29	115.87	90.57	299.34	84.82	0.76
M3	0.1207671	0.107	0.247	-0.070	0.22	135.91	89.38	338.70	162.52	0.19
MK3	0.1222921	0.280	0.305	-0.183	0.24	0.86	85.07	13.44	117.34	0.84
SK3	0.1251141	0.131	0.283	0.077	0.24	0.89	70.22	51.40	158.57	0.21
*MN4	0.1595106	0.487	0.287	-0.055	0.23	4.25	29.69	22.70	34.92	2.9
*M4	0.1610228	0.693	0.257	-0.171	0.28	173.11	23.60	241.66	25.22	7.2
SN4	0.1623326	0.313	0.230	-0.123	0.23	3.49	65.37	93.46	66.94	1.8
MS4	0.1638447	0.204	0.239	-0.026	0.22	160.59	94.11	246.17	96.57	0.73
S4	0.1666667	0.157	0.173	0.080	0.19	117.92	111.99	224.49	113.27	0.82
2MK5	0.2028035	0.047	0.126	0.021	0.13	105.85	150.45	346.20	191.26	0.14
2SK5	0.2084474	0.128	0.150	-0.063	0.14	60.67	98.42	195.44	121.11	0.72
*2MN6	0.2400221	0.285	0.196	-0.066	0.18	44.43	42.46	295.97	50.30	2.1
*M6	0.2415342	0.473	0.207	-0.129	0.17	27.11	26.01	344.95	30.61	5.2
2MS6	0.2443561	0.196	0.178	0.008	0.14	25.72	52.49	31.55	67.04	1.2
2SM6	0.2471781	0.090	0.166	0.030	0.13	41.61	81.64	289.99	157.76	0.29
3MK7	0.2833149	0.072	0.095	-0.006	0.09	150.37	92.96	15.46	109.66	0.58
M8	0.3220456	0.072	0.072	-0.036	0.08	92.81	116.59	151.01	79.64	0.99

total var= 121.3178 pred var= 81.9313
percent total var predicted/var original= 67.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.5 m

Mooring Number: 6251

File Name: 6251adc-alh.nc

nobs = 3359, ngood = 3359, record length (days) = 139.96

start time: 09-May-2000 14:52:30

rayleigh criterion = 1.0

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

x0= -0.0582, x trend= 0

var(x)= 133.6771 var(xp)= 95.8785 var(xres)= 37.7388
percent var predicted/var original= 71.7 %

y0= -0.0824, x trend= 0

var(y)= 26.3705 var(yp)= 4.8235 var(yres)= 21.4945
percent var predicted/var original= 18.3 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.873	1.563	-0.053	1.30	172.95	108.58	236.54	195.94	0.31
MSF	0.0028219	1.154	1.501	-0.199	1.43	150.33	102.52	343.68	110.94	0.59
ALP1	0.0343966	0.329	0.326	0.055	0.31	2.08	57.50	351.15	79.35	1
2Q1	0.0357064	0.324	0.312	-0.058	0.34	126.63	83.83	296.17	77.07	1.1
Q1	0.0372185	0.477	0.375	-0.106	0.31	172.95	46.26	64.80	56.62	1.6
O1	0.0387307	0.455	0.350	0.049	0.34	177.93	43.29	109.60	71.40	1.7
*NO1	0.0402686	1.124	0.732	-0.755	0.67	151.48	87.84	352.63	93.65	2.4
*K1	0.0417807	0.991	0.401	-0.212	0.37	33.24	22.42	327.96	23.32	6.1
J1	0.0432929	0.264	0.302	-0.144	0.27	28.07	96.44	327.97	113.58	0.76
OO1	0.0448308	0.445	0.499	-0.286	0.43	36.12	99.78	335.78	107.58	0.79
UPS1	0.0463430	0.584	0.415	-0.340	0.37	0.71	70.18	147.61	83.57	2
EPS2	0.0761773	0.421	0.608	0.007	0.34	168.56	54.51	208.36	133.22	0.48
MU2	0.0776895	0.992	0.845	-0.407	0.49	174.85	46.37	225.02	76.05	1.4
*N2	0.0789992	2.609	1.022	-0.137	0.62	16.93	12.44	171.43	22.13	6.5
*M2	0.0805114	13.505	1.015	-0.819	0.51	11.48	2.42	202.26	4.38	1.8e+002
*L2	0.0820236	1.058	0.651	0.013	0.43	15.72	25.79	265.56	45.35	2.6
*S2	0.0833333	1.624	0.934	0.111	0.62	19.80	21.61	261.95	37.94	3
ETA2	0.0850736	0.401	0.659	-0.239	0.50	2.62	70.70	342.81	134.06	0.37
*MO3	0.1192421	0.506	0.290	-0.106	0.20	11.04	24.09	328.42	32.55	3
M3	0.1207671	0.236	0.228	-0.085	0.17	169.88	53.75	92.23	73.19	1.1
MK3	0.1222921	0.269	0.261	0.033	0.16	175.99	38.97	144.05	65.16	1.1
SK3	0.1251141	0.250	0.217	-0.065	0.20	20.74	52.96	349.24	69.90	1.3
MN4	0.1595106	0.222	0.282	-0.095	0.21	27.75	82.35	138.95	97.59	0.62
M4	0.1610228	0.250	0.256	-0.073	0.22	51.27	83.46	227.97	74.74	0.95
SN4	0.1623326	0.225	0.254	-0.057	0.24	39.44	88.78	220.82	100.70	0.79
MS4	0.1638447	0.043	0.223	0.015	0.18	13.34	97.06	292.59	250.85	0.038
S4	0.1666667	0.089	0.224	-0.021	0.21	122.63	135.80	193.87	160.91	0.16
2MK5	0.2028035	0.186	0.180	0.035	0.11	178.40	36.00	150.46	68.61	1.1
2SK5	0.2084474	0.051	0.112	0.004	0.11	119.25	92.99	293.41	160.96	0.21
2MN6	0.2400221	0.220	0.193	0.084	0.16	35.97	48.36	271.72	61.43	1.3
*M6	0.2415342	0.436	0.195	-0.086	0.15	22.45	21.38	0.59	29.62	5
2MS6	0.2443561	0.153	0.169	-0.070	0.12	158.91	55.57	359.27	98.41	0.82
2SM6	0.2471781	0.069	0.143	-0.019	0.12	42.91	68.72	230.68	175.96	0.23
3MK7	0.2833149	0.071	0.076	0.038	0.09	91.20	134.98	314.43	100.50	0.86
*M8	0.3220456	0.146	0.076	0.045	0.08	43.25	35.04	36.16	36.60	3.7

total var= 160.0476 pred var= 100.702
percent total var predicted/var original= 62.9 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.3 m

Mooring Number: 6301

File Name: 6301adc-alh.nc

nobs = 3362, ngood = 3361, record length (days) = 140.08

start time: 26-Sep-2000 13:50:00

rayleigh criterion = 1.0

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

x0= -0.433, x trend= 0

var(x)= 66.9674 var(xp)= 47.5313 var(xres)= 19.4972
percent var predicted/var original= 71.0 %

y0= 0.769, x trend= 0

var(y)= 24.3144 var(yp)= 9.9726 var(yres)= 14.3457
percent var predicted/var original= 41.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.279	0.713	-0.119	0.80	47.78	121.42	279.89	170.38	0.15
MSF	0.0028219	0.523	0.768	-0.246	0.84	47.50	112.66	231.28	124.78	0.46
ALP1	0.0343966	0.129	0.294	-0.019	0.28	176.35	125.63	170.32	151.37	0.19
2Q1	0.0357064	0.264	0.301	-0.179	0.32	36.43	109.81	319.63	109.15	0.77
Q1	0.0372185	0.100	0.264	0.003	0.29	168.11	141.34	44.76	179.66	0.14
*O1	0.0387307	0.548	0.326	-0.191	0.37	27.96	48.33	267.67	48.45	2.8
NO1	0.0402686	0.487	0.559	-0.274	0.46	171.58	106.56	304.42	147.31	0.76
*K1	0.0417807	0.597	0.369	0.126	0.38	8.98	42.16	282.81	47.14	2.6
J1	0.0432929	0.218	0.306	-0.016	0.29	27.69	110.03	274.76	122.06	0.51
OO1	0.0448308	0.302	0.391	0.009	0.39	43.58	91.59	191.42	104.42	0.6
UPS1	0.0463430	0.317	0.342	-0.157	0.37	66.69	96.29	201.33	105.12	0.86
EPS2	0.0761773	0.337	0.332	0.129	0.32	7.62	88.76	237.32	81.91	1
MU2	0.0776895	0.294	0.277	-0.051	0.31	77.78	80.62	78.24	95.05	1.1
*N2	0.0789992	2.386	0.462	-0.437	0.51	17.77	11.54	159.00	9.88	27
*M2	0.0805114	10.006	0.421	-0.455	0.42	24.37	2.81	192.65	2.32	5.7e+002
*L2	0.0820236	0.814	0.350	-0.214	0.40	23.65	29.14	251.07	32.87	5.4
*S2	0.0833333	1.484	0.429	0.039	0.50	29.66	16.11	216.93	15.52	12
ETA2	0.0850736	0.286	0.333	-0.207	0.32	144.24	116.43	344.29	128.71	0.74
*MO3	0.1192421	0.287	0.176	-0.094	0.18	109.92	51.41	259.51	48.48	2.7
M3	0.1207671	0.206	0.162	0.078	0.17	17.32	63.42	260.31	61.39	1.6
MK3	0.1222921	0.139	0.161	0.027	0.15	75.19	81.47	34.10	93.68	0.75
SK3	0.1251141	0.081	0.138	-0.035	0.15	5.44	105.96	38.49	148.93	0.34
*MN4	0.1595106	0.279	0.179	-0.104	0.18	60.59	65.08	355.75	55.13	2.4
*M4	0.1610228	0.717	0.237	-0.411	0.18	9.31	24.41	57.94	32.40	9.1
SN4	0.1623326	0.103	0.166	0.040	0.14	153.97	88.09	287.96	134.50	0.39
MS4	0.1638447	0.234	0.211	-0.059	0.19	148.40	54.90	293.63	67.90	1.2
S4	0.1666667	0.210	0.206	-0.133	0.19	20.38	85.40	312.60	113.95	1
2MK5	0.2028035	0.079	0.107	0.004	0.10	132.76	91.80	136.05	101.86	0.54
2SK5	0.2084474	0.042	0.091	0.011	0.09	142.16	109.79	261.32	198.24	0.22
*2MN6	0.2400221	0.255	0.122	0.075	0.11	23.69	30.48	265.81	35.16	4.3
*M6	0.2415342	0.503	0.120	0.258	0.13	39.68	19.55	288.34	23.53	18
2MS6	0.2443561	0.121	0.103	0.108	0.09	89.72	132.50	8.57	124.91	1.4
2SM6	0.2471781	0.068	0.097	0.023	0.10	100.03	108.86	37.40	124.79	0.49
3MK7	0.2833149	0.047	0.068	-0.019	0.07	172.38	125.49	10.01	174.66	0.47
*M8	0.3220456	0.128	0.074	-0.079	0.08	58.08	70.57	224.93	73.66	3

total var= 91.2818 pred var= 57.504
percent total var predicted/var original= 63.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.6 m

Mooring Number: 6321

File Name: 6321adc-alh.nc

nobs = 3357, ngood = 3352, record length (days) = 139.88

start time: 26-Sep-2000 16:52:30

rayleigh criterion = 1.0

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

x0= -0.269, x trend= 0

var(x)= 79.4859 var(xp)= 61.5236 var(xres)= 18.0157
percent var predicted/var original= 77.4 %

y0= 1.44, x trend= 0

var(y)= 14.5 var(yp)= 0.87492 var(yres)= 13.6105
percent var predicted/var original= 6.0 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.369	0.666	-0.099	0.69	21.34	102.31	258.23	172.25	0.31
MSF	0.0028219	0.668	0.735	-0.325	0.80	15.30	102.81	245.77	116.80	0.82
ALP1	0.0343966	0.133	0.260	-0.046	0.23	156.79	140.37	213.01	169.73	0.26
2Q1	0.0357064	0.204	0.276	-0.117	0.30	56.00	112.47	285.06	125.38	0.55
Q1	0.0372185	0.179	0.263	-0.048	0.26	146.22	123.94	358.51	127.28	0.46
*O1	0.0387307	0.632	0.365	-0.197	0.40	10.47	37.56	267.90	36.07	3
NO1	0.0402686	0.457	0.501	-0.272	0.46	142.36	96.57	317.16	110.04	0.83
K1	0.0417807	0.451	0.356	0.116	0.33	152.52	57.40	77.24	50.70	1.6
J1	0.0432929	0.240	0.291	-0.017	0.32	11.75	108.83	280.82	86.15	0.68
OO1	0.0448308	0.379	0.408	-0.071	0.43	14.20	108.47	199.72	93.22	0.86
UPS1	0.0463430	0.392	0.385	-0.139	0.38	30.18	78.02	225.08	71.49	1
EPS2	0.0761773	0.227	0.276	0.125	0.25	168.02	117.06	72.28	150.76	0.67
MU2	0.0776895	0.333	0.313	-0.046	0.31	43.51	79.03	96.78	71.09	1.1
*N2	0.0789992	2.454	0.426	-0.252	0.34	3.31	8.99	162.16	10.36	33
*M2	0.0805114	10.479	0.397	-0.519	0.33	4.85	1.59	197.91	2.32	7e+002
*L2	0.0820236	0.841	0.318	-0.078	0.26	1.10	21.11	251.78	26.57	7
*S2	0.0833333	1.475	0.414	0.007	0.36	11.68	14.27	225.17	15.35	13
ETA2	0.0850736	0.294	0.284	-0.171	0.31	135.57	95.31	341.76	99.05	1.1
*MO3	0.1192421	0.292	0.146	-0.101	0.18	90.20	43.89	246.45	43.63	4
*M3	0.1207671	0.220	0.155	-0.024	0.16	171.09	51.16	85.06	49.60	2
MK3	0.1222921	0.105	0.150	0.094	0.14	20.13	123.42	349.40	140.24	0.49
SK3	0.1251141	0.095	0.133	-0.039	0.13	150.72	99.29	249.30	114.35	0.51
*MN4	0.1595106	0.272	0.182	-0.090	0.19	44.42	50.14	14.39	59.27	2.2
*M4	0.1610228	0.483	0.197	-0.324	0.19	165.86	53.05	241.65	50.58	6
SN4	0.1623326	0.201	0.162	0.019	0.18	113.64	66.99	301.91	60.58	1.5
MS4	0.1638447	0.140	0.165	-0.057	0.17	157.80	106.55	296.50	120.65	0.72
S4	0.1666667	0.165	0.170	-0.104	0.15	18.39	97.08	276.47	106.22	0.93
2MK5	0.2028035	0.092	0.103	-0.044	0.09	151.12	95.44	81.74	98.75	0.81
2SK5	0.2084474	0.070	0.097	0.005	0.09	152.48	92.02	347.40	110.90	0.51
*2MN6	0.2400221	0.170	0.107	0.070	0.11	43.10	52.93	309.87	52.32	2.5
*M6	0.2415342	0.475	0.120	0.136	0.10	42.02	14.27	334.84	14.57	16
*2MS6	0.2443561	0.145	0.084	0.023	0.11	69.62	55.58	23.29	48.67	3
2SM6	0.2471781	0.052	0.091	-0.018	0.09	132.26	119.98	352.29	142.22	0.33
3MK7	0.2833149	0.075	0.074	0.007	0.07	79.34	82.17	39.30	81.67	1
*M8	0.3220456	0.164	0.058	-0.047	0.06	34.24	28.77	257.62	25.50	8.1

total var= 93.9859 pred var= 62.3985
percent total var predicted/var original= 66.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.6 m

Mooring Number: 6381

File Name: 6381adc-alh.nc

nobs = 2400, ngood = 2399, record length (days) = 100.00

start time: 13-Feb-2001 16:22:30

rayleigh criterion = 1.0

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

x0= 0.423, x trend= 0

var(x)= 108.4011 var(xp)= 67.4789 var(xres)= 40.3494
percent var predicted/var original= 62.2 %

y0= 1, x trend= 0

var(y)= 25.9751 var(yp)= 6.6501 var(yres)= 19.4485
percent var predicted/var original= 25.6 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.867	1.300	-0.538	1.23	67.79	119.01	236.50	120.10	0.44
MSF	0.0028219	2.486	1.972	-0.480	1.24	156.81	30.87	57.01	54.95	1.6
ALP1	0.0343966	0.197	0.528	-0.020	0.49	105.48	138.53	309.65	184.65	0.14
2Q1	0.0357064	0.468	0.626	-0.106	0.46	13.90	79.39	180.40	121.62	0.56
Q1	0.0372185	0.298	0.512	-0.059	0.51	50.47	112.51	13.21	119.08	0.34
O1	0.0387307	0.732	0.767	-0.119	0.60	14.37	59.15	252.80	59.43	0.91
NO1	0.0402686	0.247	0.493	-0.104	0.59	121.00	117.37	239.33	153.76	0.25
*K1	0.0417807	1.737	0.771	-0.919	0.57	10.76	38.63	295.52	39.08	5.1
J1	0.0432929	0.275	0.458	-0.123	0.49	9.82	112.13	273.03	171.90	0.36
OO1	0.0448308	0.329	0.583	0.105	0.55	126.33	120.05	91.76	139.76	0.32
UPS1	0.0463430	0.170	0.529	-0.130	0.51	2.71	109.37	292.27	213.47	0.1
EPS2	0.0761773	0.189	0.467	-0.080	0.34	25.01	60.38	34.15	167.60	0.16
MU2	0.0776895	0.597	0.481	-0.046	0.59	64.89	86.49	265.03	69.49	1.5
*N2	0.0789992	2.381	0.806	0.083	0.47	8.81	12.66	149.05	17.92	8.7
*M2	0.0805114	11.674	0.723	-0.417	0.48	16.89	2.18	198.99	4.21	2.6e+002
L2	0.0820236	0.794	0.623	-0.013	0.50	140.25	42.24	37.51	53.21	1.6
*S2	0.0833333	2.101	0.825	-0.297	0.57	20.02	16.95	240.28	24.60	6.5
ETA2	0.0850736	0.246	0.455	-0.051	0.40	159.09	81.78	198.82	151.22	0.29
MO3	0.1192421	0.123	0.210	0.039	0.19	86.07	133.36	78.28	134.17	0.34
M3	0.1207671	0.255	0.231	0.012	0.25	130.78	71.40	197.34	75.18	1.2
MK3	0.1222921	0.289	0.206	-0.179	0.26	103.14	99.44	210.91	87.35	2
SK3	0.1251141	0.228	0.244	-0.056	0.23	26.82	72.08	336.23	84.06	0.87
MN4	0.1595106	0.181	0.220	-0.049	0.19	16.30	68.87	338.42	98.59	0.67
M4	0.1610228	0.264	0.213	-0.135	0.21	74.29	93.77	290.21	68.42	1.5
*SN4	0.1623326	0.420	0.285	-0.204	0.20	5.67	43.97	169.02	58.92	2.2
MS4	0.1638447	0.315	0.250	0.023	0.20	9.69	46.21	141.59	57.90	1.6
S4	0.1666667	0.081	0.193	0.032	0.15	100.92	161.62	279.59	185.73	0.18
2MK5	0.2028035	0.169	0.143	-0.066	0.14	149.18	76.76	84.74	76.02	1.4
2SK5	0.2084474	0.109	0.131	0.037	0.13	66.88	100.08	199.75	97.55	0.7
2MN6	0.2400221	0.203	0.176	0.037	0.14	15.19	48.98	246.20	70.57	1.3
*M6	0.2415342	0.308	0.177	0.069	0.18	33.79	38.28	315.22	42.60	3
2MS6	0.2443561	0.131	0.143	0.025	0.16	37.18	83.23	329.24	103.96	0.84
2SM6	0.2471781	0.068	0.135	-0.006	0.14	21.78	80.93	252.60	147.75	0.26
3MK7	0.2833149	0.038	0.094	-0.012	0.09	58.60	134.36	233.32	177.52	0.17
M8	0.3220456	0.077	0.079	0.002	0.07	142.73	72.18	26.35	85.24	0.95

total var= 134.3762 pred var= 74.129
percent total var predicted/var original= 55.2 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.3 m

Mooring Number: 6451

File Name: 6451adc-alh.nc

nobs = 3672, ngood = 3667, record length (days) = 153.00

start time: 23-May-2001 14:35:00

rayleigh criterion = 1.0

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

x0= 0.218, x trend= 0

var(x)= 111.8846 var(xp)= 87.2497 var(xres)= 24.4419
percent var predicted/var original= 78.0 %

y0= 0.166, x trend= 0

var(y)= 20.5942 var(yp)= 1.3885 var(yres)= 19.1834
percent var predicted/var original= 6.7 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.022	0.900	-0.137	0.91	128.68	73.60	306.33	65.01	1.3
MSF	0.0028219	1.213	0.911	-0.583	0.83	138.94	79.46	113.16	78.91	1.8
ALP1	0.0343966	0.185	0.224	-0.048	0.24	130.61	85.11	230.83	87.34	0.69
2Q1	0.0357064	0.205	0.243	-0.019	0.22	134.28	91.90	359.73	88.54	0.71
Q1	0.0372185	0.154	0.228	-0.086	0.23	102.47	153.99	199.65	125.66	0.45
O1	0.0387307	0.242	0.231	0.149	0.23	45.90	96.89	325.13	107.64	1.1
NO1	0.0402686	0.193	0.283	-0.038	0.22	13.92	79.84	14.06	108.25	0.46
*K1	0.0417807	0.764	0.279	0.069	0.26	38.44	21.98	321.13	24.05	7.5
J1	0.0432929	0.295	0.264	-0.101	0.25	16.49	51.57	93.38	68.42	1.2
OO1	0.0448308	0.131	0.192	0.020	0.21	132.74	111.60	285.44	137.55	0.46
*UPS1	0.0463430	0.435	0.278	-0.243	0.28	113.99	68.37	221.98	61.01	2.4
EPS2	0.0761773	0.210	0.413	0.024	0.32	14.46	82.17	28.99	158.47	0.26
MU2	0.0776895	0.817	0.638	-0.228	0.50	31.18	42.04	80.03	55.53	1.6
*N2	0.0789992	3.170	0.697	-0.238	0.47	177.75	8.77	338.39	10.99	21
*M2	0.0805114	12.497	0.803	-1.011	0.45	3.85	2.10	204.91	3.21	2.4e+002
*L2	0.0820236	0.963	0.665	-0.240	0.42	1.77	34.44	247.79	43.18	2.1
*S2	0.0833333	1.460	0.648	0.126	0.44	13.54	21.06	227.94	30.08	5.1
ETA2	0.0850736	0.231	0.428	-0.199	0.36	175.87	97.96	146.77	188.90	0.29
MO3	0.1192421	0.283	0.206	0.030	0.15	177.64	40.07	89.71	50.80	1.9
M3	0.1207671	0.072	0.148	0.016	0.15	17.98	90.38	149.83	157.60	0.24
*MK3	0.1222921	0.707	0.229	-0.190	0.18	8.62	15.69	326.60	19.41	9.6
SK3	0.1251141	0.113	0.175	-0.078	0.15	174.75	101.63	196.11	162.61	0.42
MN4	0.1595106	0.350	0.290	-0.075	0.22	40.08	46.82	101.47	57.97	1.5
*M4	0.1610228	0.574	0.288	-0.001	0.24	31.96	24.36	197.75	28.19	4
*SN4	0.1623326	0.346	0.216	-0.083	0.28	108.85	63.35	179.22	45.11	2.6
MS4	0.1638447	0.190	0.238	-0.039	0.19	38.47	72.64	207.47	105.67	0.63
S4	0.1666667	0.128	0.206	-0.061	0.20	117.35	117.18	26.77	135.84	0.39
2MK5	0.2028035	0.146	0.165	-0.056	0.14	34.81	67.71	1.28	91.23	0.78
2SK5	0.2084474	0.134	0.162	-0.021	0.12	19.86	55.22	256.76	88.70	0.68
*2MN6	0.2400221	0.232	0.149	0.020	0.14	43.04	42.11	273.06	41.82	2.4
*M6	0.2415342	0.407	0.165	-0.054	0.14	30.53	21.82	344.88	25.59	6.1
*2MS6	0.2443561	0.221	0.138	-0.121	0.15	43.79	59.62	73.09	63.77	2.6
2SM6	0.2471781	0.080	0.121	0.018	0.11	27.96	95.53	126.17	108.23	0.43
3MK7	0.2833149	0.059	0.080	0.030	0.08	141.52	99.96	123.95	139.13	0.55
M8	0.3220456	0.102	0.084	0.008	0.06	23.69	40.83	51.29	51.24	1.5

total var= 132.4788 pred var= 88.6382
percent total var predicted/var original= 66.9 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.5 m

Mooring Number: 6631

File Name: 6631adc-alh.nc

nobs = 343, ngood = 343, record length (days) = 14.29

start time: 17-Sep-2001 19:10:00

rayleigh criterion = 1.0

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

x0= 3.54, x trend= 0

var(x)= 158.796 var(xp)= 101.9623 var(xres)= 56.7378
percent var predicted/var original= 64.2 %

y0= -1.69, x trend= 0

var(y)= 20.9043 var(yp)= 1.9725 var(yres)= 18.8884
percent var predicted/var original= 9.4 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
O1	0.0387307	0.691	0.869	-0.047	0.78	130.32	81.21	323.42	107.68	0.63
K1	0.0417807	1.257	0.983	-0.472	1.01	119.98	79.23	51.62	65.61	1.6
*M2	0.0805114	14.217	4.398	-0.691	1.08	7.14	4.88	213.24	14.11	10
M3	0.1207671	0.763	0.655	-0.259	0.57	154.06	66.53	320.71	72.18	1.4
*M4	0.1610228	1.590	1.046	-0.513	0.96	6.17	36.99	230.95	44.96	2.3
2MK5	0.2028035	0.252	0.467	-0.083	0.41	96.60	141.97	211.41	141.85	0.29
2SK5	0.2084474	0.305	0.512	-0.190	0.42	159.10	100.93	141.12	185.49	0.36
M6	0.2415342	0.522	0.458	-0.120	0.46	48.53	55.78	343.95	65.26	1.3
3MK7	0.2833149	0.377	0.406	0.200	0.33	166.87	79.35	259.94	116.44	0.86
M8	0.3220456	0.262	0.221	0.068	0.22	25.10	65.25	23.21	78.62	1.4

total var= 179.7003 pred var= 103.9348
percent total var predicted/var original= 57.8 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.7 m

Mooring Number: 6651

File Name: 6651adc-alh.nc

nobs = 2541, ngood = 2537, record length (days) = 105.88

start time: 23-Oct-2001 16:52:30

rayleigh criterion = 1.0

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

x0= -0.459, x trend= 0

var(x)= 72.1211 var(xp)= 59.3978 var(xres)= 12.7134
percent var predicted/var original= 82.4 %

y0= 2.09, x trend= 0

var(y)= 11.9314 var(yp)= 0.91803 var(yres)= 11.0088
percent var predicted/var original= 7.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.694	0.781	-0.259	0.93	6.71	116.87	324.11	112.78	0.79
MSF	0.0028219	0.324	0.902	-0.019	0.75	27.04	141.12	294.52	145.72	0.13
ALP1	0.0343966	0.385	0.321	-0.130	0.28	3.80	58.76	56.60	79.77	1.4
2Q1	0.0357064	0.369	0.319	-0.124	0.32	23.09	61.78	302.68	79.97	1.3
Q1	0.0372185	0.249	0.307	0.006	0.29	126.90	96.80	55.63	99.73	0.66
*O1	0.0387307	0.688	0.440	0.061	0.35	2.40	31.25	256.50	37.73	2.4
NO1	0.0402686	0.222	0.239	0.003	0.27	90.52	109.11	167.25	78.01	0.86
*K1	0.0417807	0.585	0.395	-0.104	0.31	173.70	35.24	110.49	50.14	2.2
J1	0.0432929	0.203	0.300	-0.132	0.28	164.08	123.01	302.56	163.77	0.46
OO1	0.0448308	0.335	0.311	-0.016	0.29	134.36	56.10	169.59	61.81	1.2
UPS1	0.0463430	0.228	0.312	-0.206	0.28	144.91	123.05	193.02	136.65	0.54
EPS2	0.0761773	0.361	0.362	0.192	0.33	111.32	79.39	113.25	75.94	0.99
*MU2	0.0776895	0.518	0.323	0.102	0.39	178.10	53.05	243.85	38.66	2.6
*N2	0.0789992	2.414	0.371	-0.224	0.44	9.93	9.08	171.55	9.78	42
*M2	0.0805114	10.500	0.366	-0.211	0.46	5.57	2.26	197.16	1.93	8.2e+002
*L2	0.0820236	0.932	0.417	-0.280	0.43	179.58	35.74	74.94	29.64	5
*S2	0.0833333	1.431	0.346	0.013	0.41	2.36	15.86	222.34	12.97	17
ETA2	0.0850736	0.070	0.238	-0.062	0.24	175.78	160.43	220.50	160.46	0.088
MO3	0.1192421	0.120	0.146	-0.061	0.14	177.25	108.69	94.75	108.90	0.68
M3	0.1207671	0.212	0.164	-0.008	0.18	158.26	54.17	44.42	57.41	1.7
*MK3	0.1222921	0.285	0.158	0.006	0.17	6.90	40.13	71.30	35.39	3.3
SK3	0.1251141	0.152	0.148	0.044	0.15	127.52	73.62	296.80	80.33	1
MN4	0.1595106	0.215	0.202	-0.044	0.14	170.69	47.31	212.82	71.99	1.1
*M4	0.1610228	0.573	0.194	-0.416	0.18	157.43	49.07	268.46	52.62	8.7
SN4	0.1623326	0.098	0.150	-0.079	0.14	28.08	107.12	146.03	143.87	0.42
MS4	0.1638447	0.147	0.153	-0.063	0.15	19.97	71.51	124.35	90.98	0.92
S4	0.1666667	0.151	0.182	-0.047	0.14	5.85	62.57	264.55	87.90	0.68
2MK5	0.2028035	0.118	0.098	-0.047	0.10	121.89	82.47	121.26	73.87	1.5
2SK5	0.2084474	0.081	0.088	-0.054	0.10	54.12	112.17	81.27	108.88	0.86
*2MN6	0.2400221	0.248	0.114	0.140	0.10	43.02	50.16	305.76	49.32	4.7
*M6	0.2415342	0.605	0.114	0.074	0.12	49.20	11.01	354.79	11.79	28
*2MS6	0.2443561	0.212	0.111	0.133	0.11	88.35	54.59	68.34	66.34	3.7
2SM6	0.2471781	0.096	0.094	-0.039	0.09	12.87	87.20	3.86	83.94	1
3MK7	0.2833149	0.070	0.074	0.003	0.07	13.82	68.66	358.38	81.58	0.89
M8	0.3220456	0.069	0.068	-0.010	0.06	51.96	66.44	313.28	80.17	1

total var= 84.0525 pred var= 60.3159
percent total var predicted/var original= 71.8 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.4 m

Mooring Number: 6831

File Name: 6831adc-alh.nc

nobs = 2492, ngood = 2482, record length (days) = 103.83

start time: 06-Feb-2002 15:52:30

rayleigh criterion = 1.0

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

x0= -0.839, x trend= 0

var(x)= 92.9251 var(xp)= 63.2423 var(xres)= 29.708
percent var predicted/var original= 68.1 %

y0= 0.953, x trend= 0

var(y)= 22.3474 var(yp)= 2.3654 var(yres)= 20.0032
percent var predicted/var original= 10.6 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.883	1.402	-0.002	1.70	121.43	59.19	137.34	52.56	1.8
MSF	0.0028219	0.576	1.086	0.014	1.31	53.20	90.84	179.51	141.96	0.28
ALP1	0.0343966	0.509	0.526	-0.228	0.55	151.34	93.51	66.25	97.70	0.94
2Q1	0.0357064	0.402	0.489	-0.080	0.52	8.83	93.11	286.72	117.42	0.67
Q1	0.0372185	0.469	0.501	0.119	0.47	155.21	92.57	93.12	90.51	0.88
O1	0.0387307	0.599	0.603	-0.107	0.49	178.87	72.19	39.07	97.85	0.99
NO1	0.0402686	0.140	0.327	0.010	0.36	99.71	147.12	242.03	147.38	0.18
*K1	0.0417807	1.600	0.603	-1.052	0.61	16.56	49.39	293.32	51.28	7
J1	0.0432929	0.415	0.501	-0.056	0.49	133.16	89.82	107.23	96.15	0.68
OO1	0.0448308	0.460	0.429	-0.203	0.48	10.42	79.51	235.67	87.10	1.2
UPS1	0.0463430	0.376	0.474	-0.172	0.42	170.07	86.05	207.37	96.59	0.63
*EPS2	0.0761773	0.609	0.387	-0.321	0.38	119.63	59.60	146.48	58.92	2.5
MU2	0.0776895	0.407	0.346	0.161	0.35	119.69	74.32	186.87	79.52	1.4
*N2	0.0789992	2.654	0.447	0.047	0.40	12.49	8.62	163.43	9.24	35
*M2	0.0805114	10.824	0.483	-0.001	0.36	7.19	2.06	197.17	2.46	5e+002
*L2	0.0820236	0.828	0.527	0.145	0.48	18.58	39.55	281.93	44.31	2.5
*S2	0.0833333	2.102	0.513	-0.082	0.42	19.25	10.41	240.01	11.53	17
ETA2	0.0850736	0.422	0.387	-0.172	0.32	12.20	62.36	246.20	77.21	1.2
*MO3	0.1192421	0.337	0.194	-0.141	0.19	158.08	53.22	186.03	45.42	3
M3	0.1207671	0.119	0.174	-0.037	0.15	5.04	112.99	330.30	125.59	0.47
MK3	0.1222921	0.136	0.150	-0.020	0.15	57.19	95.07	301.06	101.33	0.83
SK3	0.1251141	0.248	0.186	-0.065	0.18	175.20	58.58	93.99	57.65	1.8
*MN4	0.1595106	0.415	0.266	-0.149	0.20	168.32	35.32	189.85	45.46	2.4
*M4	0.1610228	0.497	0.217	-0.398	0.20	139.99	73.18	287.16	75.30	5.3
SN4	0.1623326	0.110	0.178	0.067	0.18	170.56	105.08	315.58	198.00	0.38
MS4	0.1638447	0.204	0.213	-0.022	0.16	7.34	67.24	101.36	84.61	0.92
S4	0.1666667	0.114	0.167	0.005	0.15	129.63	102.40	269.78	114.08	0.47
2MK5	0.2028035	0.054	0.117	-0.030	0.12	127.06	99.11	96.65	153.03	0.21
2SK5	0.2084474	0.120	0.140	-0.054	0.13	28.58	75.82	206.61	89.38	0.74
*2MN6	0.2400221	0.288	0.127	0.101	0.12	61.60	27.39	314.31	30.87	5.1
*M6	0.2415342	0.523	0.102	0.018	0.13	40.22	14.82	346.03	12.72	26
*2MS6	0.2443561	0.315	0.133	0.021	0.12	48.42	24.49	54.78	23.52	5.6
2SM6	0.2471781	0.107	0.096	-0.022	0.10	178.06	97.74	257.60	78.94	1.2
3MK7	0.2833149	0.043	0.075	-0.011	0.08	50.38	123.10	221.94	161.49	0.33
M8	0.3220456	0.030	0.059	0.003	0.05	173.87	95.33	347.96	163.12	0.26

total var= 115.2725 pred var= 65.6077
percent total var predicted/var original= 56.9 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.4 m

Mooring Number: 6901

File Name: 6901adc-alh.nc

nobs = 3693, ngood = 3692, record length (days) = 153.88

start time: 21-May-2002 15:52:30

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)= 126.2722 var(xp)= 84.4982 var(xres)= 42.0808
percent var predicted/var original= 66.9 %

y0= 0.26, x trend= 0

var(y)= 29.9627 var(yp)= 2.1599 var(yres)= 27.8376
percent var predicted/var original= 7.2 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.302	1.887	-0.295	1.76	137.38	54.84	69.30	48.62	1.5
MSF	0.0028219	2.155	1.542	0.361	1.70	107.58	63.02	347.69	54.75	2
ALP1	0.0343966	0.191	0.277	-0.064	0.26	131.41	109.46	65.42	128.88	0.48
2Q1	0.0357064	0.189	0.285	0.014	0.28	136.85	98.26	263.62	110.70	0.44
Q1	0.0372185	0.151	0.261	-0.029	0.27	1.91	90.88	283.58	153.96	0.34
O1	0.0387307	0.276	0.306	0.210	0.29	6.32	117.52	239.53	143.30	0.81
NO1	0.0402686	0.182	0.199	-0.082	0.22	150.24	80.32	84.23	102.87	0.84
*K1	0.0417807	0.735	0.384	-0.054	0.40	49.97	33.34	334.44	29.35	3.7
J1	0.0432929	0.344	0.309	-0.302	0.28	105.43	141.73	252.34	121.75	1.2
OO1	0.0448308	0.249	0.256	-0.155	0.22	17.05	72.74	350.90	97.06	0.94
UPS1	0.0463430	0.190	0.244	-0.124	0.25	79.25	137.98	24.72	126.80	0.61
EPS2	0.0761773	0.448	0.574	-0.281	0.60	91.91	153.44	271.39	106.61	0.61
MU2	0.0776895	0.897	0.783	-0.438	0.57	9.73	45.17	59.64	72.46	1.3
*N2	0.0789992	2.314	0.879	-0.134	0.53	12.28	13.88	182.78	19.28	6.9
*M2	0.0805114	12.808	0.899	-0.617	0.55	7.96	2.41	204.20	4.83	2e+002
*L2	0.0820236	2.670	1.074	-0.568	0.70	7.38	16.97	253.71	32.45	6.2
*S2	0.0833333	1.888	0.890	0.028	0.51	5.71	16.70	251.77	28.13	4.5
ETA2	0.0850736	0.278	0.481	0.004	0.41	88.89	166.35	217.10	126.31	0.33
MO3	0.1192421	0.088	0.196	-0.067	0.18	85.94	184.61	190.90	154.28	0.2
M3	0.1207671	0.267	0.259	0.023	0.21	18.83	42.17	188.51	69.96	1.1
MK3	0.1222921	0.272	0.275	-0.047	0.18	3.66	44.09	277.86	68.09	0.98
SK3	0.1251141	0.165	0.225	-0.011	0.21	31.40	73.52	21.08	107.69	0.54
MN4	0.1595106	0.179	0.223	0.053	0.24	147.77	91.07	207.53	122.54	0.65
M4	0.1610228	0.264	0.217	0.008	0.31	65.70	78.62	219.41	59.65	1.5
SN4	0.1623326	0.350	0.288	-0.145	0.21	171.49	50.96	96.98	67.25	1.5
MS4	0.1638447	0.125	0.209	-0.052	0.19	117.36	125.82	244.42	124.28	0.36
S4	0.1666667	0.149	0.231	-0.032	0.19	19.74	83.76	114.96	113.09	0.41
2MK5	0.2028035	0.184	0.160	-0.080	0.12	3.72	57.57	307.44	77.16	1.3
2SK5	0.2084474	0.152	0.136	-0.049	0.14	112.57	81.01	251.36	62.18	1.3
2MN6	0.2400221	0.242	0.199	0.057	0.12	10.96	38.59	275.35	59.76	1.5
*M6	0.2415342	0.356	0.215	0.040	0.15	19.73	23.79	329.27	32.52	2.7
2MS6	0.2443561	0.111	0.122	-0.007	0.15	93.64	147.91	24.67	92.70	0.83
2SM6	0.2471781	0.109	0.140	-0.053	0.13	176.23	75.78	56.32	115.41	0.6
3MK7	0.2833149	0.077	0.095	-0.021	0.08	28.13	82.75	39.30	105.18	0.65
M8	0.3220456	0.070	0.061	-0.033	0.07	36.53	85.10	4.87	95.43	1.3

total var= 156.2349 pred var= 86.6582
percent total var predicted/var original= 55.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 21.6 m

Mooring Number: 6931

File Name: 6931adc-alh.nc

nobs = 2183, ngood = 2183, record length (days) = 90.96

start time: 20-Jun-2002 17:10:00

rayleigh criterion = 1.0

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

x0= 0.307, x trend= 0

var(x)= 137.9876 var(xp)= 108.5467 var(xres)= 29.463
percent var predicted/var original= 78.7 %

y0= 0.329, x trend= 0

var(y)= 38.6316 var(yp)= 6.4237 var(yres)= 32.0106
percent var predicted/var original= 16.6 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	3.546	2.282	-0.757	1.69	121.95	28.72	51.10	36.49	2.4
MSF	0.0028219	2.116	2.081	0.488	1.40	70.46	45.44	5.17	64.39	1
ALP1	0.0343966	0.272	0.312	0.069	0.30	123.35	97.18	111.58	108.35	0.76
2Q1	0.0357064	0.325	0.354	-0.204	0.36	157.80	95.24	186.39	108.87	0.84
Q1	0.0372185	0.232	0.303	-0.193	0.28	122.90	121.90	166.26	136.83	0.59
O1	0.0387307	0.459	0.415	-0.112	0.32	12.85	43.44	279.47	63.22	1.2
NO1	0.0402686	0.141	0.199	-0.036	0.20	40.21	94.08	252.67	135.50	0.5
*K1	0.0417807	1.139	0.400	-0.489	0.41	49.22	28.30	332.91	27.58	8.1
J1	0.0432929	0.187	0.282	-0.081	0.31	75.15	151.72	196.54	121.61	0.44
OO1	0.0448308	0.286	0.256	-0.218	0.24	16.90	92.26	347.12	109.71	1.3
UPS1	0.0463430	0.230	0.291	-0.178	0.24	125.76	118.91	350.96	123.97	0.63
EPS2	0.0761773	0.450	0.736	0.055	0.53	3.12	62.97	292.30	125.55	0.37
*MU2	0.0776895	1.488	0.801	-0.667	0.67	16.49	37.08	49.72	46.27	3.4
*N2	0.0789992	2.477	0.919	-0.067	0.65	12.54	15.88	183.06	22.01	7.3
*M2	0.0805114	14.110	0.935	-0.766	0.52	3.32	2.50	202.66	3.89	2.3e+002
*L2	0.0820236	3.422	1.338	-0.711	0.93	0.71	14.80	221.73	25.09	6.5
*S2	0.0833333	2.069	0.927	-0.261	0.60	178.64	19.85	68.27	31.49	5
ETA2	0.0850736	0.241	0.480	-0.188	0.40	74.01	149.38	251.24	144.09	0.25
MO3	0.1192421	0.393	0.293	-0.282	0.21	19.73	77.66	220.85	100.37	1.8
M3	0.1207671	0.285	0.271	0.198	0.25	137.18	83.13	319.65	97.23	1.1
MK3	0.1222921	0.440	0.386	-0.036	0.21	4.46	28.11	321.02	54.89	1.3
SK3	0.1251141	0.289	0.329	-0.025	0.18	171.07	35.59	197.04	68.52	0.77
MN4	0.1595106	0.291	0.353	0.039	0.29	25.83	72.04	172.41	102.22	0.68
*M4	0.1610228	0.722	0.441	-0.149	0.39	22.13	34.23	195.52	41.69	2.7
SN4	0.1623326	0.100	0.299	-0.023	0.24	60.89	111.77	62.07	195.79	0.11
MS4	0.1638447	0.318	0.308	-0.132	0.35	64.65	104.50	227.47	93.27	1.1
S4	0.1666667	0.068	0.277	-0.042	0.32	162.09	92.59	135.79	217.92	0.06
2MK5	0.2028035	0.109	0.177	-0.044	0.17	64.88	112.48	273.68	131.33	0.38
2SK5	0.2084474	0.196	0.198	-0.031	0.18	110.72	71.59	275.33	75.64	0.99
2MN6	0.2400221	0.240	0.235	0.162	0.22	164.82	97.23	110.36	114.14	1
*M6	0.2415342	0.522	0.302	-0.049	0.23	17.68	31.41	359.67	40.28	3
2MS6	0.2443561	0.148	0.198	-0.060	0.23	122.82	116.63	16.60	125.56	0.56
2SM6	0.2471781	0.162	0.200	-0.033	0.21	72.31	108.09	262.20	106.64	0.65
3MK7	0.2833149	0.158	0.137	0.014	0.16	43.02	68.77	48.35	78.09	1.3
M8	0.3220456	0.165	0.128	-0.061	0.13	24.27	66.25	340.42	67.92	1.7

total var= 176.6192 pred var= 114.9704
percent total var predicted/var original= 65.1 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.7 m

Mooring Number: 6971

File Name: 6971adc-alh.nc

nobs = 5015, ngood = 5011, record length (days) = 208.96

start time: 24-Oct-2002 14:52:30

rayleigh criterion = 1.0

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

x0= -0.0768, x trend= 0

var(x)= 92.9532 var(xp)= 66.3931 var(xres)= 26.9505
percent var predicted/var original= 71.4 %

y0= 1.46, x trend= 0

var(y)= 21.3946 var(yp)= 2.8317 var(yres)= 18.6177
percent var predicted/var original= 13.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
SSA	0.0002282	1.468	1.213	-0.096	1.10	136.40	49.57	166.58	51.90	1.5
M5M	0.0013098	1.046	0.959	0.035	0.99	130.82	73.39	88.87	72.43	1.2
MM	0.0015122	0.873	0.875	0.266	1.00	69.16	109.80	158.63	91.93	1
*MSF	0.0028219	1.473	0.946	-0.446	0.97	128.26	58.63	208.60	54.66	2.4
MF	0.0030501	0.701	0.879	-0.214	0.85	146.69	91.67	185.11	112.92	0.64
ALP1	0.0343966	0.223	0.266	0.034	0.26	93.54	109.16	354.25	88.75	0.7
2Q1	0.0357064	0.346	0.308	-0.071	0.32	179.57	62.89	353.86	63.33	1.3
SIG1	0.0359087	0.169	0.238	0.035	0.26	96.93	107.54	275.47	122.55	0.5
Q1	0.0372185	0.182	0.285	-0.097	0.26	131.82	113.65	161.78	124.17	0.41
RHO1	0.0374209	0.191	0.265	-0.062	0.25	175.26	99.25	222.32	109.37	0.52
O1	0.0387307	0.238	0.261	0.046	0.27	150.30	90.70	27.41	88.57	0.83
TAU1	0.0389588	0.263	0.288	-0.180	0.24	28.31	97.10	224.32	112.77	0.83
BET1	0.0400404	0.191	0.281	0.031	0.23	162.88	83.72	85.00	124.76	0.46
NO1	0.0402686	0.158	0.199	-0.108	0.21	135.70	122.10	237.25	134.08	0.63
CHI1	0.0404710	0.168	0.247	0.083	0.23	155.78	116.48	11.59	129.27	0.46
P1	0.0415526	0.330	0.327	-0.100	0.35	60.32	73.82	352.18	74.38	1
*K1	0.0417807	0.969	0.363	-0.145	0.35	176.23	21.69	132.42	21.30	7.1
*PHI1	0.0420089	0.521	0.334	-0.337	0.36	77.05	73.40	246.50	69.74	2.4
THE1	0.0430905	0.108	0.226	-0.022	0.23	171.93	121.07	189.09	132.02	0.23
J1	0.0432929	0.187	0.324	0.031	0.27	68.51	118.66	241.55	120.92	0.33
SO1	0.0446027	0.117	0.242	0.011	0.23	52.15	123.89	100.15	149.75	0.23
OO1	0.0448308	0.131	0.205	-0.051	0.17	143.76	114.22	226.24	137.14	0.4
UPS1	0.0463430	0.118	0.202	-0.042	0.20	143.05	114.96	88.73	133.35	0.34
OQ2	0.0759749	0.177	0.274	-0.111	0.25	8.73	113.42	258.30	137.46	0.42
EPS2	0.0761773	0.198	0.265	0.050	0.25	36.27	85.84	121.58	110.55	0.56
2N2	0.0774871	0.359	0.297	-0.016	0.29	11.14	52.19	153.40	57.87	1.5
MU2	0.0776895	0.266	0.247	-0.011	0.30	100.39	79.88	200.36	71.38	1.2
*N2	0.0789992	2.484	0.349	0.244	0.35	11.00	6.58	161.66	8.49	51
NU2	0.0792016	0.391	0.309	0.037	0.28	47.51	57.36	207.68	55.00	1.6
*M2	0.0805114	11.225	0.383	-0.333	0.32	8.50	1.63	200.65	1.75	8.6e+002
MKS2	0.0807396	0.336	0.303	0.031	0.26	176.85	46.76	283.63	57.75	1.2
*LDA2	0.0818212	0.448	0.293	-0.066	0.32	145.80	38.63	7.70	48.99	2.3
*L2	0.0820236	1.050	0.401	-0.195	0.40	156.32	26.23	51.21	27.36	6.9
*S2	0.0833333	1.968	0.381	0.252	0.32	9.42	8.85	230.09	9.97	27
*K2	0.0835615	0.438	0.284	0.080	0.24	172.48	34.94	37.87	40.08	2.4
MSN2	0.0848455	0.143	0.220	-0.022	0.21	93.38	109.83	266.08	124.11	0.42
ETA2	0.0850736	0.149	0.217	0.046	0.20	0.79	93.93	236.93	133.05	0.47
MO3	0.1192421	0.137	0.146	-0.010	0.11	164.02	71.80	170.22	97.65	0.88
M3	0.1207671	0.167	0.175	-0.080	0.13	166.53	74.80	44.44	87.25	0.91
SO3	0.1220640	0.110	0.106	0.001	0.13	91.25	104.13	22.26	79.81	1.1
MK3	0.1222921	0.175	0.165	-0.039	0.15	6.33	55.67	276.99	71.13	1.1
SK3	0.1251141	0.142	0.149	-0.071	0.14	149.10	82.50	136.24	117.80	0.91
*MN4	0.1595106	0.296	0.192	-0.172	0.17	171.58	69.02	208.37	65.40	2.4
*M4	0.1610228	0.582	0.209	-0.381	0.18	126.42	42.66	283.18	43.42	7.7
SN4	0.1623326	0.147	0.158	-0.067	0.16	139.96	88.24	54.42	98.99	0.87
MS4	0.1638447	0.221	0.171	-0.055	0.16	141.64	57.44	319.96	58.49	1.7
MK4	0.1640729	0.087	0.127	0.045	0.12	103.64	121.66	266.83	121.18	0.48
S4	0.1666667	0.101	0.131	-0.084	0.13	171.30	111.83	291.88	134.66	0.59
SK4	0.1668948	0.170	0.143	-0.035	0.16	105.64	66.97	146.11	54.40	1.4

2MK5	0.2028035	0.084	0.086	0.028	0.10	160.49	89.28	66.38	88.33	0.95
2SK5	0.2084474	0.007	0.070	-0.001	0.06	166.31	122.78	323.99	211.94	0.011
*2MN6	0.2400221	0.258	0.111	0.022	0.10	49.58	27.64	305.23	29.48	5.4
*M6	0.2415342	0.439	0.128	0.144	0.11	43.96	19.24	329.13	21.23	12
2MS6	0.2443561	0.092	0.101	0.001	0.09	98.42	99.02	44.74	82.50	0.83
2MK6	0.2445843	0.082	0.087	-0.021	0.09	34.78	78.78	75.96	82.44	0.88
2SM6	0.2471781	0.071	0.093	-0.010	0.08	148.40	91.75	151.20	116.14	0.59
MSK6	0.2474062	0.056	0.083	0.024	0.08	70.89	123.96	322.47	115.17	0.46
3MK7	0.2833149	0.069	0.065	0.035	0.06	157.72	82.38	44.29	84.70	1.1
*M8	0.3220456	0.088	0.053	-0.049	0.05	23.36	62.40	279.83	65.81	2.7

total var= 114.3478 pred var= 69.2247
percent total var predicted/var original= 60.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.5 m

Mooring Number: 7081

File Name: 7081adc-alh.nc

nobs = 4270, ngood = 4269, record length (days) = 177.92

start time: 30-Mar-2003 13:52:30

rayleigh criterion = 1.0

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

x0= 0.0855, x trend= 0

var(x)= 102.8844 var(xp)= 72.7588 var(xres)= 30.0064
percent var predicted/var original= 70.7 %

y0= 0.327, x trend= 0

var(y)= 29.3419 var(yp)= 7.7919 var(yres)= 21.5467
percent var predicted/var original= 26.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.032	1.023	0.271	1.05	47.58	81.88	126.14	78.64	1
MSF	0.0028219	0.898	1.156	-0.360	1.09	151.27	90.96	209.81	82.37	0.6
ALP1	0.0343966	0.176	0.212	0.019	0.20	111.11	87.72	0.81	92.71	0.69
2Q1	0.0357064	0.170	0.206	-0.158	0.23	17.82	146.12	172.01	148.15	0.68
Q1	0.0372185	0.145	0.199	-0.119	0.21	7.12	125.88	180.40	139.78	0.53
*O1	0.0387307	0.300	0.210	0.106	0.21	10.67	63.12	260.32	53.69	2
*NO1	0.0402686	0.312	0.208	-0.151	0.20	42.84	55.43	310.50	58.73	2.2
*K1	0.0417807	0.937	0.241	-0.464	0.25	17.08	26.96	309.22	26.18	15
J1	0.0432929	0.258	0.204	-0.206	0.21	31.45	110.89	195.00	110.66	1.6
OO1	0.0448308	0.150	0.129	-0.071	0.17	79.58	83.41	256.97	84.89	1.3
UPS1	0.0463430	0.070	0.125	0.008	0.13	85.18	106.74	272.39	153.67	0.32
EPS2	0.0761773	0.320	0.409	0.081	0.45	78.97	121.52	335.58	96.22	0.61
MU2	0.0776895	0.645	0.540	-0.154	0.39	8.74	47.44	188.48	58.31	1.4
*N2	0.0789992	2.371	0.590	0.568	0.43	12.76	12.95	162.36	12.94	16
*M2	0.0805114	12.523	0.624	-1.176	0.50	16.77	1.98	205.92	2.61	4e+002
*L2	0.0820236	1.061	0.577	-0.378	0.39	6.65	33.02	179.69	44.82	3.4
*S2	0.0833333	0.984	0.592	0.461	0.45	165.89	38.30	25.89	50.15	2.8
ETA2	0.0850736	0.342	0.377	-0.158	0.33	3.25	73.74	320.75	123.19	0.82
MO3	0.1192421	0.155	0.151	0.043	0.17	108.11	85.95	284.25	86.77	1.1
M3	0.1207671	0.208	0.224	-0.099	0.17	33.34	78.18	220.19	86.45	0.86
*MK3	0.1222921	0.535	0.204	-0.155	0.22	21.71	25.83	293.96	29.00	6.9
SK3	0.1251141	0.124	0.162	-0.033	0.14	177.77	89.84	162.91	95.57	0.59
MN4	0.1595106	0.182	0.207	-0.103	0.22	69.20	113.50	242.75	97.22	0.77
*M4	0.1610228	0.738	0.248	-0.068	0.32	66.63	22.17	235.02	20.32	8.9
*SN4	0.1623326	0.382	0.239	-0.181	0.19	149.71	55.28	343.64	66.28	2.6
MS4	0.1638447	0.108	0.226	-0.029	0.18	6.24	72.64	122.26	138.98	0.23
S4	0.1666667	0.103	0.202	-0.003	0.17	168.87	76.96	214.72	152.75	0.26
2MK5	0.2028035	0.065	0.114	-0.021	0.11	49.27	105.15	43.21	138.66	0.33
2SK5	0.2084474	0.090	0.110	-0.035	0.11	55.54	92.08	309.74	103.33	0.67
*2MN6	0.2400221	0.272	0.140	-0.073	0.13	33.26	32.16	325.05	38.60	3.8
*M6	0.2415342	0.473	0.151	-0.010	0.14	41.75	16.62	332.61	16.55	9.8
2MS6	0.2443561	0.120	0.117	0.048	0.10	38.95	78.48	356.99	85.34	1
2SM6	0.2471781	0.082	0.091	-0.021	0.10	93.89	126.64	292.93	105.00	0.82
3MK7	0.2833149	0.031	0.062	-0.005	0.06	80.46	140.25	82.57	155.77	0.25
*M8	0.3220456	0.120	0.066	0.045	0.07	12.67	47.32	8.84	45.13	3.3

total var= 132.2264 pred var= 80.5506
percent total var predicted/var original= 60.9 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.5 m

Mooring Number: 7171

File Name: 7171Eadc-alh.nc

nobs = 223, ngood = 222, record length (days) = 9.29

start time: 14-Oct-2003 23:03:57

rayleigh criterion = 1.0

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

x0= -1.26, x trend= 0

var(x)= 123.3302 var(xp)= 65.1723 var(xres)= 58.4808

percent var predicted/var original= 52.8 %

y0= 3.04, x trend= 0

var(y)= 58.0497 var(yp)= 5.1168 var(yres)= 53.0909

percent var predicted/var original= 8.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
K1	0.0417807	3.356	3.482	-1.117	3.55	126.07	78.44	199.38	88.52	0.93
*M2	0.0805114	11.913	3.352	-1.816	2.47	167.13	12.17	3.35	13.84	13
*M3	0.1207671	1.288	0.781	0.226	0.81	145.51	32.01	94.49	40.86	2.7
M4	0.1610228	0.551	0.998	0.052	0.82	87.71	78.04	66.97	159.47	0.3
2MK5	0.2028035	0.538	0.616	-0.088	0.72	3.64	128.10	265.95	82.09	0.76
2SK5	0.2084474	0.508	0.551	-0.234	0.52	145.01	94.99	256.62	136.81	0.85
M6	0.2415342	0.711	0.595	-0.342	0.58	116.09	69.39	100.88	78.66	1.4
3MK7	0.2833149	0.333	0.385	-0.034	0.43	72.70	123.65	147.46	95.92	0.75
M8	0.3220456	0.257	0.303	-0.077	0.25	2.17	95.19	57.36	87.50	0.72

total var= 181.3799 pred var= 70.2891

percent total var predicted/var original= 38.8 %

Tidal Analysis of Current at LT-A

ADCP Observations, 21.9 m

Mooring Number: 7561

File Name: 7561adc-alh.nc

nobs = 2493, ngood = 2492, record length (days) = 103.88

start time: 05-Feb-2004 15:44:42

rayleigh criterion = 1.0

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

x0= 0.495, x trend= 0

var(x)= 86.7797 var(xp)= 64.3096 var(xres)= 22.7444
percent var predicted/var original= 74.1 %

y0= 0.514, x trend= 0

var(y)= 21.2964 var(yp)= 0.68457 var(yres)= 20.606
percent var predicted/var original= 3.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.321	1.696	-0.058	1.91	139.05	90.62	0.07	108.49	0.61
MSF	0.0028219	1.851	1.842	-0.283	1.76	121.91	64.41	96.68	71.44	1
ALP1	0.0343966	0.583	0.474	-0.231	0.43	126.45	65.34	26.17	66.34	1.5
2Q1	0.0357064	0.408	0.465	-0.074	0.42	139.81	82.83	57.83	98.01	0.77
Q1	0.0372185	0.399	0.437	-0.315	0.41	150.53	113.54	3.78	131.80	0.84
O1	0.0387307	0.655	0.534	-0.057	0.35	168.51	39.81	53.52	47.94	1.5
NO1	0.0402686	0.321	0.459	0.019	0.47	31.79	95.25	185.36	116.55	0.49
*K1	0.0417807	1.432	0.534	-0.841	0.46	167.73	34.51	106.75	37.73	7.2
J1	0.0432929	0.473	0.431	-0.304	0.44	65.62	90.92	295.34	92.57	1.2
OO1	0.0448308	0.321	0.309	-0.151	0.34	8.08	69.17	337.25	89.34	1.1
UPS1	0.0463430	0.481	0.380	-0.271	0.32	19.06	68.82	13.15	72.25	1.6
EPS2	0.0761773	0.237	0.517	-0.025	0.47	4.61	94.17	130.15	168.70	0.21
MU2	0.0776895	0.811	0.639	-0.216	0.54	142.70	55.25	154.58	59.02	1.6
*N2	0.0789992	1.826	0.710	0.075	0.54	8.29	20.52	169.83	24.52	6.6
*M2	0.0805114	11.105	0.771	-0.292	0.55	179.21	3.28	22.31	3.25	2.1e+002
L2	0.0820236	0.677	0.532	-0.258	0.41	176.36	54.95	66.05	54.80	1.6
*S2	0.0833333	2.038	0.616	-0.216	0.57	176.34	17.74	51.24	26.33	11
ETA2	0.0850736	0.302	0.437	-0.146	0.43	35.70	107.14	161.66	111.24	0.48
MO3	0.1192421	0.225	0.209	-0.056	0.17	157.69	64.95	200.15	88.56	1.2
M3	0.1207671	0.137	0.217	-0.025	0.20	21.81	79.60	150.27	136.14	0.4
MK3	0.1222921	0.329	0.289	-0.010	0.21	19.76	41.35	289.15	54.79	1.3
SK3	0.1251141	0.164	0.215	-0.041	0.18	26.33	71.44	271.18	105.28	0.58
MN4	0.1595106	0.173	0.238	0.092	0.19	145.14	104.44	276.24	123.42	0.53
*M4	0.1610228	0.496	0.283	-0.019	0.29	111.40	38.23	271.26	33.37	3.1
SN4	0.1623326	0.208	0.221	-0.042	0.23	173.20	77.51	353.81	96.59	0.89
MS4	0.1638447	0.247	0.231	0.055	0.21	161.28	59.47	337.06	73.78	1.1
S4	0.1666667	0.135	0.192	-0.096	0.19	42.15	127.40	168.05	132.20	0.5
2MK5	0.2028035	0.120	0.150	-0.009	0.13	147.61	83.30	71.94	116.09	0.64
2SK5	0.2084474	0.228	0.192	-0.019	0.15	21.87	49.75	143.58	50.43	1.4
2MN6	0.2400221	0.287	0.211	0.017	0.15	18.15	29.23	288.98	47.27	1.8
*M6	0.2415342	0.298	0.183	0.155	0.17	26.86	53.99	336.66	73.19	2.7
2MS6	0.2443561	0.143	0.159	0.102	0.13	153.83	83.09	183.72	120.68	0.8
2SM6	0.2471781	0.067	0.146	-0.008	0.11	4.69	73.65	248.04	149.88	0.21
3MK7	0.2833149	0.062	0.091	0.007	0.10	113.41	133.90	253.79	117.62	0.47
M8	0.3220456	0.070	0.076	-0.002	0.08	61.72	93.12	225.68	95.09	0.85

total var= 108.0761 pred var= 64.9942
percent total var predicted/var original= 60.1 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.1 m

Mooring Number: 7671

File Name: 7671adc-alh.nc

nobs = 3019, ngood = 3019, record length (days) = 125.79

start time: 19-May-2004 16:52:30

rayleigh criterion = 1.0

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

x0= -0.119, x trend= 0

var(x)= 121.2877 var(xp)= 93.2766 var(xres)= 28.3749
percent var predicted/var original= 76.9 %

y0= -0.0145, x trend= 0

var(y)= 17.3891 var(yp)= 1.3063 var(yres)= 16.0835
percent var predicted/var original= 7.5 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.785	1.413	0.656	1.58	55.73	133.38	306.38	166.37	0.31
MSF	0.0028219	1.464	1.462	0.204	1.38	164.76	66.62	349.47	83.17	1
ALP1	0.0343966	0.193	0.220	-0.069	0.23	89.27	113.69	271.65	102.63	0.76
2Q1	0.0357064	0.100	0.187	0.026	0.19	21.35	102.79	196.52	153.17	0.29
Q1	0.0372185	0.190	0.231	0.046	0.24	50.30	103.56	241.27	99.90	0.68
*O1	0.0387307	0.422	0.272	0.157	0.21	10.02	53.80	258.51	54.95	2.4
NO1	0.0402686	0.303	0.326	0.001	0.31	145.38	81.56	351.90	85.03	0.87
*K1	0.0417807	0.863	0.318	-0.425	0.27	43.71	27.02	330.51	30.15	7.4
J1	0.0432929	0.249	0.271	-0.051	0.25	125.84	80.93	271.33	86.16	0.85
*OO1	0.0448308	0.302	0.202	-0.061	0.20	122.84	49.35	6.00	47.28	2.2
UPS1	0.0463430	0.109	0.177	-0.050	0.17	119.18	112.96	306.74	113.07	0.38
EPS2	0.0761773	0.993	0.789	-0.558	0.53	11.32	60.97	313.65	84.67	1.6
MU2	0.0776895	0.613	0.539	-0.367	0.54	61.84	109.37	246.81	86.05	1.3
*N2	0.0789992	2.204	0.760	0.496	0.46	1.35	12.83	164.19	22.14	8.4
*M2	0.0805114	13.818	0.769	-0.610	0.46	3.15	1.90	212.04	3.67	3.2e+002
*L2	0.0820236	0.880	0.502	-0.436	0.33	176.83	43.91	59.15	64.62	3.1
*S2	0.0833333	1.340	0.743	0.119	0.52	17.83	20.50	268.08	31.96	3.3
ETA2	0.0850736	0.592	0.483	-0.382	0.40	147.91	78.11	257.74	93.70	1.5
MO3	0.1192421	0.115	0.182	0.007	0.16	79.61	129.96	243.02	96.87	0.39
M3	0.1207671	0.134	0.236	0.096	0.20	179.75	98.50	303.44	183.84	0.32
*MK3	0.1222921	0.426	0.260	-0.151	0.21	18.21	33.45	345.18	47.40	2.7
SK3	0.1251141	0.114	0.167	-0.024	0.16	130.76	100.21	160.87	119.26	0.47
MN4	0.1595106	0.328	0.297	-0.007	0.21	15.89	34.16	226.83	68.23	1.2
*M4	0.1610228	0.404	0.258	-0.340	0.22	154.72	82.00	111.72	113.09	2.4
SN4	0.1623326	0.060	0.212	-0.015	0.14	142.53	61.61	254.07	188.20	0.08
MS4	0.1638447	0.195	0.256	0.020	0.17	156.15	56.13	318.79	90.16	0.58
S4	0.1666667	0.162	0.236	-0.046	0.14	169.26	63.37	334.73	129.96	0.47
2MK5	0.2028035	0.167	0.159	-0.033	0.14	146.09	54.35	199.17	76.32	1.1
2SK5	0.2084474	0.068	0.107	0.047	0.10	169.02	102.80	211.17	155.12	0.41
*2MN6	0.2400221	0.382	0.190	-0.100	0.19	11.52	32.98	288.46	33.45	4.1
*M6	0.2415342	0.502	0.207	-0.031	0.18	13.80	25.96	322.45	24.55	5.9
2MS6	0.2443561	0.085	0.151	-0.042	0.13	46.61	120.58	48.28	136.55	0.32
2SM6	0.2471781	0.111	0.138	-0.033	0.15	134.78	100.84	352.00	99.59	0.65
3MK7	0.2833149	0.114	0.117	-0.048	0.10	145.31	76.02	207.30	94.40	0.95
M8	0.3220456	0.067	0.076	-0.055	0.08	172.76	109.93	39.64	135.12	0.77

total var= 138.6768 pred var= 94.5828
percent total var predicted/var original= 68.2 %

Tidal Analysis of Current at LT-A

ADCP Observations, 21.2 m

Mooring Number: 7751

File Name: 7751adc-alh.nc

nobs = 1289, ngood = 1288, record length (days) = 53.71

start time: 22-Sep-2004 20:52:29

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)= 92.982 var(xp)= 71.1211 var(xres)= 22.4845

percent var predicted/var original= 76.5 %

y0= 0.482, x trend= 0

var(y)= 33.5571 var(yp)= 14.2476 var(yres)= 20.2497

percent var predicted/var original= 42.5 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	5.443	1.975	0.133	1.85	112.11	20.56	249.84	21.84	7.6
MSF	0.0028219	2.033	1.680	-0.007	1.69	69.40	66.82	329.14	68.28	1.5
ALP1	0.0343966	0.313	0.530	-0.032	0.39	137.53	85.10	46.60	133.43	0.35
2Q1	0.0357064	0.412	0.498	-0.256	0.51	76.02	122.70	49.68	100.26	0.68
Q1	0.0372185	0.362	0.512	-0.248	0.46	37.34	95.41	185.09	127.73	0.5
*O1	0.0387307	0.990	0.659	-0.132	0.50	170.48	30.57	116.83	47.96	2.3
NO1	0.0402686	1.101	1.014	0.066	0.60	167.46	31.93	157.04	52.00	1.2
*K1	0.0417807	0.980	0.491	-0.375	0.65	103.14	56.37	45.65	41.40	4
*J1	0.0432929	0.784	0.531	-0.703	0.54	84.14	128.80	208.75	112.78	2.2
OO1	0.0448308	0.274	0.353	0.159	0.36	112.08	113.23	329.61	95.96	0.6
UPS1	0.0463430	0.196	0.365	0.087	0.28	43.23	89.73	259.93	131.70	0.29
EPS2	0.0761773	0.898	0.667	0.076	0.69	58.55	66.46	92.62	61.80	1.8
MU2	0.0776895	0.371	0.650	-0.256	0.65	25.42	111.93	45.36	143.50	0.33
*N2	0.0789992	2.380	0.806	-0.009	0.71	8.55	16.85	173.36	19.35	8.7
*M2	0.0805114	11.623	0.932	-0.114	0.71	2.95	3.43	202.33	4.06	1.6e+002
L2	0.0820236	0.505	0.463	-0.197	0.49	137.15	81.78	287.50	73.69	1.2
*S2	0.0833333	2.091	0.790	0.389	0.63	3.03	19.52	234.52	25.88	7
ETA2	0.0850736	0.507	0.517	-0.181	0.52	141.19	89.25	312.75	88.09	0.96
MO3	0.1192421	0.168	0.247	0.031	0.21	15.80	90.09	250.55	120.33	0.46
M3	0.1207671	0.196	0.285	-0.028	0.25	27.43	88.27	235.40	125.17	0.47
MK3	0.1222921	0.279	0.306	-0.084	0.26	162.17	64.52	303.81	97.38	0.83
SK3	0.1251141	0.140	0.252	0.009	0.21	103.58	131.83	106.17	124.30	0.31
MN4	0.1595106	0.291	0.369	-0.218	0.36	149.48	121.80	322.54	125.10	0.62
M4	0.1610228	0.434	0.364	-0.216	0.37	19.10	95.27	124.98	75.26	1.4
SN4	0.1623326	0.320	0.359	-0.113	0.29	110.99	69.13	283.73	98.80	0.79
MS4	0.1638447	0.323	0.375	0.022	0.28	109.02	63.87	284.04	86.80	0.74
S4	0.1666667	0.244	0.338	-0.155	0.29	37.43	108.29	221.85	124.98	0.52
2MK5	0.2028035	0.231	0.189	-0.161	0.18	39.02	105.51	1.90	98.47	1.5
2SK5	0.2084474	0.136	0.156	0.027	0.17	149.10	83.58	158.38	97.07	0.76
*2MN6	0.2400221	0.264	0.173	0.072	0.21	13.75	72.42	337.44	55.64	2.3
*M6	0.2415342	0.423	0.186	0.058	0.25	27.30	31.89	1.16	31.24	5.2
2MS6	0.2443561	0.165	0.179	0.045	0.17	126.71	75.40	53.26	83.70	0.85
2SM6	0.2471781	0.114	0.162	0.036	0.13	102.45	85.45	119.79	113.50	0.49
3MK7	0.2833149	0.176	0.162	-0.023	0.17	126.77	85.98	342.60	67.60	1.2
M8	0.3220456	0.126	0.132	-0.023	0.14	60.96	78.62	247.66	90.77	0.9

total var= 126.5391 pred var= 85.3687

percent total var predicted/var original= 67.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.8 m

Mooring Number: 7771

File Name: 7771adc-alh.nc

nobs = 2346, ngood = 2345, record length (days) = 97.75

start time: 09-Feb-2005 17:52:30

rayleigh criterion = 1.0

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

x0= 0.974, x trend= 0

var(x)= 100.3553 var(xp)= 67.8229 var(xres)= 32.5721
percent var predicted/var original= 67.6 %

y0= 0.119, x trend= 0

var(y)= 30.1121 var(yp)= 2.6096 var(yres)= 27.428
percent var predicted/var original= 8.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.367	1.563	0.230	1.42	93.04	71.21	205.36	81.43	0.76
MSF	0.0028219	0.947	1.272	0.069	1.14	99.37	97.99	210.98	114.95	0.55
ALP1	0.0343966	0.288	0.471	-0.057	0.40	111.36	126.89	103.93	130.20	0.37
2Q1	0.0357064	0.542	0.609	-0.374	0.55	22.43	88.73	332.38	112.72	0.79
Q1	0.0372185	0.208	0.514	-0.003	0.47	158.37	90.44	70.14	190.74	0.16
O1	0.0387307	0.700	0.560	-0.280	0.49	25.41	59.96	244.53	73.96	1.6
NO1	0.0402686	0.326	0.591	0.228	0.60	12.58	99.45	253.91	155.95	0.31
*K1	0.0417807	1.451	0.766	-0.711	0.50	166.23	37.66	138.45	46.99	3.6
J1	0.0432929	0.557	0.585	-0.310	0.55	5.67	82.37	90.61	120.25	0.91
OO1	0.0448308	0.240	0.387	-0.074	0.28	173.86	73.90	353.85	125.57	0.38
UPS1	0.0463430	0.171	0.302	-0.019	0.24	155.31	84.77	40.57	170.33	0.32
EPS2	0.0761773	0.538	0.648	-0.314	0.71	86.58	136.67	24.43	117.49	0.69
MU2	0.0776895	0.714	0.807	0.087	0.61	9.79	60.07	349.14	85.31	0.78
*N2	0.0789992	1.879	1.042	0.204	0.69	2.95	22.69	150.53	34.87	3.3
*M2	0.0805114	11.725	1.044	-0.434	0.73	10.20	3.62	205.95	5.66	1.3e+002
L2	0.0820236	0.408	0.553	0.058	0.52	121.97	115.02	111.78	115.83	0.54
*S2	0.0833333	2.346	1.002	-0.013	0.66	8.47	17.18	228.64	23.00	5.5
ETA2	0.0850736	0.350	0.556	-0.171	0.41	19.70	84.77	320.82	140.53	0.4
MO3	0.1192421	0.180	0.229	-0.017	0.21	81.30	101.16	255.98	99.53	0.62
M3	0.1207671	0.304	0.293	-0.154	0.30	40.99	91.09	141.80	87.47	1.1
MK3	0.1222921	0.191	0.232	0.067	0.22	13.12	105.50	327.52	108.97	0.68
SK3	0.1251141	0.325	0.258	-0.178	0.23	94.28	88.59	72.53	71.91	1.6
MN4	0.1595106	0.204	0.275	-0.045	0.25	11.16	91.75	351.37	104.54	0.55
*M4	0.1610228	0.393	0.257	0.262	0.31	96.74	94.42	270.61	83.95	2.3
SN4	0.1623326	0.249	0.231	-0.026	0.24	85.10	86.14	77.83	87.96	1.2
MS4	0.1638447	0.207	0.275	-0.059	0.24	22.90	97.85	251.14	93.61	0.57
S4	0.1666667	0.095	0.239	0.084	0.23	138.01	129.66	195.44	176.47	0.16
2MK5	0.2028035	0.139	0.185	-0.022	0.14	160.25	80.77	56.00	99.87	0.56
2SK5	0.2084474	0.188	0.175	-0.110	0.16	5.40	67.70	142.53	89.58	1.1
2MN6	0.2400221	0.216	0.175	-0.012	0.17	56.77	63.03	301.84	64.83	1.5
*M6	0.2415342	0.353	0.213	0.154	0.18	56.67	43.25	353.28	45.20	2.7
2MS6	0.2443561	0.081	0.128	0.025	0.13	117.56	122.80	113.27	171.55	0.4
2SM6	0.2471781	0.116	0.144	0.080	0.14	47.91	112.85	29.40	118.08	0.64
3MK7	0.2833149	0.047	0.106	0.011	0.09	56.51	90.16	260.43	159.50	0.2
M8	0.3220456	0.115	0.102	0.038	0.11	59.19	61.24	85.23	63.15	1.3

total var= 130.4674 pred var= 70.4325
percent total var predicted/var original= 54.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 21.3 m

Mooring Number: 7861

File Name: 7861adc-alh.nc

nobs = 3125, ngood = 3125, record length (days) = 130.21

start time: 18-May-2005 18:22:30

rayleigh criterion = 1.0

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

x0= 0.645, x trend= 0

var(x)= 136.6899 var(xp)= 102.4362 var(xres)= 35.1702
percent var predicted/var original= 74.9 %

y0= -0.317, x trend= 0

var(y)= 43.2455 var(yp)= 4.8732 var(yres)= 38.3837
percent var predicted/var original= 11.3 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.370	1.996	-0.011	1.84	96.67	40.40	348.01	66.08	1.4
MSF	0.0028219	1.571	1.729	0.704	1.72	25.18	105.19	65.70	113.78	0.83
ALP1	0.0343966	0.108	0.286	0.048	0.24	36.61	90.53	24.13	161.48	0.14
2Q1	0.0357064	0.117	0.270	-0.082	0.24	92.78	149.27	150.01	147.71	0.19
Q1	0.0372185	0.146	0.260	-0.048	0.25	37.07	105.75	142.41	124.61	0.32
O1	0.0387307	0.222	0.289	0.119	0.25	24.39	100.21	278.60	116.54	0.59
NO1	0.0402686	0.332	0.270	-0.098	0.26	23.24	63.27	125.52	69.61	1.5
*K1	0.0417807	1.260	0.315	-0.085	0.36	43.85	15.95	331.05	17.54	16
J1	0.0432929	0.240	0.301	-0.130	0.32	75.05	112.79	328.68	112.80	0.64
OO1	0.0448308	0.105	0.153	0.031	0.18	105.64	124.74	104.90	128.88	0.47
UPS1	0.0463430	0.187	0.168	-0.122	0.20	113.46	112.28	44.91	117.62	1.2
EPS2	0.0761773	0.492	0.774	-0.378	0.65	134.99	126.21	6.97	140.74	0.4
MU2	0.0776895	0.247	0.644	0.085	0.58	101.71	154.42	206.76	148.77	0.15
*N2	0.0789992	2.435	1.092	0.178	0.69	6.98	18.85	165.82	26.59	5
*M2	0.0805114	14.591	1.130	-1.254	0.81	10.67	2.81	201.00	4.00	1.7e+002
L2	0.0820236	1.078	0.796	-0.207	0.58	10.98	41.71	241.83	51.58	1.8
*S2	0.0833333	1.805	1.066	-0.381	0.72	8.19	23.36	243.66	32.50	2.9
ETA2	0.0850736	0.221	0.493	-0.027	0.42	171.62	86.62	53.54	196.63	0.2
MO3	0.1192421	0.162	0.188	0.043	0.19	20.02	85.97	256.47	89.88	0.74
M3	0.1207671	0.157	0.233	0.006	0.21	22.40	89.44	71.44	115.49	0.46
*MK3	0.1222921	0.444	0.243	-0.090	0.23	34.93	35.82	322.81	40.58	3.3
SK3	0.1251141	0.237	0.230	-0.102	0.18	12.40	82.91	343.77	71.43	1.1
MN4	0.1595106	0.247	0.326	0.031	0.27	136.30	72.01	244.08	91.79	0.57
M4	0.1610228	0.434	0.331	-0.151	0.28	45.56	63.31	203.52	57.38	1.7
SN4	0.1623326	0.351	0.271	-0.280	0.27	32.61	105.96	66.62	110.05	1.7
MS4	0.1638447	0.168	0.272	0.027	0.22	16.98	90.82	176.58	111.94	0.38
S4	0.1666667	0.221	0.235	-0.163	0.26	109.65	129.93	233.29	111.52	0.89
2MK5	0.2028035	0.118	0.151	-0.028	0.12	10.44	58.19	66.64	101.62	0.61
2SK5	0.2084474	0.089	0.132	-0.015	0.10	175.59	67.72	153.56	110.22	0.46
2MN6	0.2400221	0.266	0.197	-0.014	0.22	64.04	52.64	324.72	51.82	1.8
*M6	0.2415342	0.510	0.238	-0.135	0.21	35.38	24.41	2.26	32.95	4.6
2MS6	0.2443561	0.171	0.158	-0.098	0.18	43.22	96.25	83.25	97.94	1.2
2SM6	0.2471781	0.106	0.155	-0.012	0.15	56.68	99.49	329.99	119.02	0.47
3MK7	0.2833149	0.137	0.120	0.004	0.13	83.56	77.15	92.60	60.83	1.3
M8	0.3220456	0.105	0.086	0.076	0.08	61.07	102.47	31.18	106.72	1.5

total var= 179.9354 pred var= 107.3094
percent total var predicted/var original= 59.6 %

Tidal Analysis of Current at LT-A

ADCP Observations, 22.3 m

Mooring Number: 8051

File Name: 8051adc-alh.nc

nobs = 3188, ngood = 3187, record length (days) = 132.83

start time: 28-Sep-2005 17:52:30

rayleigh criterion = 1.0

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

x0= -1.1, x trend= 0

var(x)= 83.1101 var(xp)= 51.3132 var(xres)= 31.8437
percent var predicted/var original= 61.7 %

y0= 1.58, x trend= 0

var(y)= 27.526 var(yp)= 3.9056 var(yres)= 23.6249
percent var predicted/var original= 14.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.740	1.596	-0.089	1.55	160.45	61.11	181.10	77.12	1.2
MSF	0.0028219	1.479	1.632	0.367	1.38	168.79	62.43	330.52	85.41	0.82
ALP1	0.0343966	0.467	0.428	-0.156	0.40	142.97	64.65	8.61	74.96	1.2
2Q1	0.0357064	0.218	0.401	-0.167	0.39	68.08	125.84	56.50	132.05	0.29
Q1	0.0372185	0.106	0.366	0.026	0.28	106.71	144.86	213.19	170.84	0.085
O1	0.0387307	0.314	0.391	0.036	0.39	142.19	82.41	76.50	92.64	0.65
NO1	0.0402686	0.135	0.316	-0.106	0.28	58.92	131.45	248.00	162.71	0.18
*K1	0.0417807	0.621	0.416	0.089	0.49	74.84	54.68	304.26	51.59	2.2
J1	0.0432929	0.427	0.446	-0.246	0.47	170.54	95.67	103.52	99.40	0.92
OO1	0.0448308	0.213	0.256	-0.100	0.23	36.79	101.77	128.83	112.15	0.69
UPS1	0.0463430	0.172	0.258	-0.099	0.24	88.73	133.59	101.33	116.59	0.44
EPS2	0.0761773	0.354	0.476	-0.021	0.44	69.59	91.83	17.39	100.67	0.55
MU2	0.0776895	0.199	0.361	-0.063	0.38	3.66	128.04	93.12	152.33	0.31
*N2	0.0789992	2.147	0.509	-0.183	0.55	4.81	16.43	161.66	15.21	18
*M2	0.0805114	10.508	0.513	-0.189	0.57	14.54	3.01	200.13	3.05	4.2e+002
L2	0.0820236	0.214	0.402	-0.027	0.42	51.88	127.80	216.17	166.42	0.28
*S2	0.0833333	1.485	0.515	-0.173	0.51	30.42	21.46	233.44	19.50	8.3
ETA2	0.0850736	0.332	0.327	-0.136	0.33	179.44	85.15	6.02	84.41	1
MO3	0.1192421	0.250	0.182	-0.098	0.17	161.88	71.92	194.57	63.73	1.9
M3	0.1207671	0.200	0.206	0.005	0.20	177.82	83.18	191.43	114.75	0.95
MK3	0.1222921	0.171	0.186	0.003	0.17	14.08	83.15	342.92	91.91	0.85
SK3	0.1251141	0.160	0.168	0.007	0.17	0.05	83.02	245.71	82.89	0.91
MN4	0.1595106	0.275	0.228	0.061	0.25	146.77	56.86	263.53	59.69	1.5
*M4	0.1610228	0.615	0.250	-0.190	0.23	140.52	27.61	298.29	27.42	6
SN4	0.1623326	0.205	0.210	-0.112	0.20	98.88	97.61	249.86	87.83	0.95
MS4	0.1638447	0.218	0.215	0.109	0.20	112.83	83.19	295.46	85.42	1
S4	0.1666667	0.084	0.145	0.014	0.15	19.17	112.72	300.41	157.03	0.34
2MK5	0.2028035	0.129	0.118	-0.098	0.10	34.07	115.02	266.57	120.04	1.2
2SK5	0.2084474	0.087	0.102	-0.054	0.10	47.11	97.70	106.34	111.31	0.72
2MN6	0.2400221	0.208	0.181	0.023	0.17	37.01	49.95	288.91	60.47	1.3
*M6	0.2415342	0.446	0.203	0.130	0.18	47.74	29.27	349.69	30.69	4.8
2MS6	0.2443561	0.170	0.152	0.104	0.16	42.07	88.18	25.66	105.15	1.3
2SM6	0.2471781	0.070	0.150	0.038	0.11	154.97	87.92	217.97	182.04	0.22
3MK7	0.2833149	0.062	0.093	-0.045	0.08	27.15	115.32	303.92	134.82	0.44
M8	0.3220456	0.041	0.079	0.025	0.07	139.84	122.89	156.02	146.68	0.26

total var= 110.636 pred var= 55.2188
percent total var predicted/var original= 49.9 %