

Tidal Analysis of Current at LT-A

ADCP Observations, 14.5 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= 0.303, x trend= 0

var(x)= 86.9312 var(xp)= 67.5566 var(xres)= 21.2068  
percent var predicted/var original= 77.7 %

y0= 4.29, x trend= 0

var(y)= 42.8266 var(yp)= 17.3374 var(yres)= 25.9958  
percent var predicted/var original= 40.5 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*K1	0.0417807	4.049	1.229	-2.210	1.52	140.29	35.78	124.40	36.79	11
*M2	0.0805114	11.419	0.891	-0.092	1.16	157.41	5.90	52.41	4.33	1.6e+002
M3	0.1207671	1.085	0.793	-0.466	0.82	173.15	76.34	51.90	57.72	1.9
*M4	0.1610228	1.906	0.492	-0.821	1.15	89.49	44.43	221.42	21.47	15
2MK5	0.2028035	0.475	0.706	0.256	0.62	102.77	147.20	141.08	113.95	0.45
*M6	0.2415342	0.657	0.318	0.234	0.31	157.49	40.00	225.73	39.57	4.3
*3MK7	0.2833149	0.959	0.309	0.102	0.31	83.29	24.34	21.72	23.43	9.7
M8	0.3220456	0.482	0.436	0.113	0.42	24.77	67.97	238.61	71.05	1.2

total var= 129.7577 pred var= 84.894  
percent total var predicted/var original= 65.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.7 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= -0.358, x trend= 0

var(x)= 91.1059 var(xp)= 80.7908 var(xres)= 10.3537  
percent var predicted/var original= 88.7 %

y0= -1.93, x trend= 0

var(y)= 17.2309 var(yp)= 0.48405 var(yres)= 16.7601  
percent var predicted/var original= 2.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.475	2.143	-0.622	1.56	109.36	55.86	245.00	125.48	0.47
MSF	0.0028219	1.459	2.290	0.085	1.16	98.61	39.73	38.85	111.35	0.41
ALP1	0.0343966	0.238	0.400	-0.036	0.44	91.86	142.49	254.26	135.03	0.35
2Q1	0.0357064	0.266	0.449	-0.185	0.45	89.44	149.55	191.70	147.39	0.35
Q1	0.0372185	0.214	0.390	-0.108	0.42	155.91	105.53	134.13	194.11	0.3
O1	0.0387307	0.569	0.508	-0.003	0.46	2.73	59.72	231.56	77.13	1.3
NO1	0.0402686	0.405	0.492	-0.017	0.49	43.48	81.37	186.07	95.13	0.68
*K1	0.0417807	0.952	0.501	-0.251	0.43	162.92	40.00	100.71	35.87	3.6
J1	0.0432929	0.514	0.554	-0.093	0.45	162.43	65.26	140.80	80.17	0.86
OO1	0.0448308	0.608	0.856	0.248	0.74	8.93	89.82	5.92	116.31	0.51
UPS1	0.0463430	1.028	0.842	-0.258	0.73	116.41	58.62	278.46	58.81	1.5
EPS2	0.0761773	0.381	0.498	-0.024	0.49	143.93	98.16	179.66	96.73	0.58
MU2	0.0776895	0.428	0.459	-0.077	0.43	155.20	83.21	214.17	92.07	0.87
*N2	0.0789992	2.501	0.596	-0.361	0.59	177.76	13.34	358.03	14.03	18
*M2	0.0805114	11.713	0.560	-0.639	0.59	1.02	2.76	200.30	2.68	4.4e+002
L2	0.0820236	0.287	0.363	0.040	0.36	154.22	95.82	72.15	129.85	0.63
*S2	0.0833333	2.427	0.641	-0.131	0.57	171.60	14.59	65.13	14.29	14
ETA2	0.0850736	0.558	0.703	0.051	0.67	60.50	89.79	173.29	99.58	0.63
MO3	0.1192421	0.148	0.181	0.044	0.20	37.66	99.63	190.61	128.59	0.67
M3	0.1207671	0.129	0.179	0.034	0.16	8.85	80.80	77.03	112.60	0.52
MK3	0.1222921	0.131	0.199	0.022	0.20	25.94	90.68	17.84	130.50	0.43
SK3	0.1251141	0.251	0.211	-0.064	0.23	119.07	70.08	132.36	72.06	1.4
*MN4	0.1595106	0.306	0.203	-0.065	0.17	6.93	41.56	37.02	43.12	2.3
*M4	0.1610228	0.523	0.226	0.062	0.17	9.97	23.12	106.55	27.08	5.4
SN4	0.1623326	0.140	0.183	-0.068	0.18	138.11	101.20	259.79	116.00	0.59
*MS4	0.1638447	0.312	0.212	-0.158	0.18	29.69	61.50	180.97	61.97	2.2
S4	0.1666667	0.113	0.178	-0.001	0.17	132.26	111.42	93.46	119.11	0.4
2MK5	0.2028035	0.156	0.133	-0.094	0.12	20.73	93.99	244.09	89.78	1.4
2SK5	0.2084474	0.145	0.144	0.037	0.14	74.92	74.76	280.23	82.98	1
2MN6	0.2400221	0.125	0.137	0.052	0.13	37.64	84.58	356.11	98.42	0.83
*M6	0.2415342	0.441	0.220	0.121	0.15	6.07	21.47	348.01	30.79	4
*2MS6	0.2443561	0.257	0.167	0.015	0.13	20.83	33.09	49.49	47.31	2.4
2SM6	0.2471781	0.072	0.118	0.032	0.12	110.46	162.18	185.18	126.81	0.37
3MK7	0.2833149	0.111	0.105	-0.031	0.11	87.08	88.77	285.39	76.79	1.1
M8	0.3220456	0.112	0.093	0.002	0.08	170.71	54.17	62.72	60.68	1.4

total var= 108.3368 pred var= 81.2748  
percent total var predicted/var original= 75.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.8 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= 0.388, x trend= 0

var(x)= 102.2943 var(xp)= 84.488 var(xres)= 17.9894  
percent var predicted/var original= 82.6 %

y0= 2.23, x trend= 0

var(y)= 20.7735 var(yp)= 0.72341 var(yres)= 20.134  
percent var predicted/var original= 3.5 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.946	1.738	0.279	1.39	103.17	50.68	184.48	71.63	1.3
MSF	0.0028219	1.187	1.577	-0.255	1.34	126.22	86.23	21.17	109.41	0.57
ALP1	0.0343966	0.773	0.742	-0.203	0.60	16.85	67.47	295.73	73.92	1.1
2Q1	0.0357064	0.471	0.696	-0.147	0.57	40.94	90.34	235.02	109.28	0.46
Q1	0.0372185	0.822	0.754	0.111	0.66	56.28	65.27	326.01	54.89	1.2
O1	0.0387307	0.251	0.633	0.223	0.54	84.28	168.60	193.71	186.20	0.16
NO1	0.0402686	0.494	0.455	-0.114	0.58	104.29	103.07	198.67	79.22	1.2
K1	0.0417807	0.591	0.622	0.273	0.64	72.64	104.03	352.34	88.45	0.9
J1	0.0432929	0.583	0.573	-0.272	0.64	88.76	113.92	141.86	108.40	1
OO1	0.0448308	1.163	1.035	-0.537	1.00	147.86	82.58	26.78	98.25	1.3
UPS1	0.0463430	1.192	1.141	-0.751	1.00	112.14	95.99	152.47	88.36	1.1
EPS2	0.0761773	0.382	0.551	-0.137	0.47	163.40	89.60	22.00	158.77	0.48
MU2	0.0776895	0.671	0.542	-0.215	0.50	123.92	68.52	97.96	64.72	1.5
*N2	0.0789992	2.414	0.736	-0.271	0.48	4.52	12.74	163.54	15.50	11
*M2	0.0805114	12.256	0.669	-0.700	0.53	177.19	2.25	21.61	3.30	3.4e+002
L2	0.0820236	0.542	0.475	-0.076	0.56	104.10	90.54	329.89	74.32	1.3
*S2	0.0833333	2.364	0.690	-0.545	0.60	0.68	14.00	225.65	18.25	12
ETA2	0.0850736	0.507	0.757	-0.006	0.83	91.01	129.57	231.43	119.21	0.45
MO3	0.1192421	0.259	0.315	-0.115	0.33	101.94	110.90	128.71	108.42	0.67
M3	0.1207671	0.188	0.256	-0.061	0.24	88.33	121.37	158.92	103.31	0.54
MK3	0.1222921	0.306	0.325	-0.218	0.28	32.02	108.89	234.00	120.89	0.89
SK3	0.1251141	0.255	0.315	-0.059	0.31	154.54	80.51	355.64	97.11	0.65
MN4	0.1595106	0.242	0.187	-0.067	0.20	76.63	95.99	186.30	72.57	1.7
*M4	0.1610228	0.370	0.205	0.143	0.28	101.01	65.78	185.89	38.81	3.3
SN4	0.1623326	0.147	0.205	-0.064	0.18	99.34	152.30	170.18	116.27	0.51
MS4	0.1638447	0.281	0.245	-0.007	0.22	148.56	48.59	219.28	58.09	1.3
S4	0.1666667	0.075	0.229	-0.033	0.18	133.42	99.00	194.47	163.21	0.11
2MK5	0.2028035	0.069	0.186	-0.014	0.16	30.07	130.66	164.94	175.46	0.14
2SK5	0.2084474	0.116	0.209	0.057	0.17	93.05	112.81	54.47	133.72	0.31
2MN6	0.2400221	0.191	0.174	-0.039	0.15	21.27	59.81	279.73	70.25	1.2
*M6	0.2415342	0.580	0.189	0.056	0.16	9.44	15.66	348.00	21.75	9.4
*2MS6	0.2443561	0.271	0.176	0.031	0.16	9.16	33.43	15.65	47.21	2.4
2SM6	0.2471781	0.266	0.189	-0.103	0.17	147.97	46.11	190.10	51.25	2
3MK7	0.2833149	0.139	0.121	-0.031	0.15	104.28	85.90	11.98	86.98	1.3
M8	0.3220456	0.078	0.089	-0.018	0.10	81.78	108.32	239.35	104.10	0.78

total var= 123.0678 pred var= 85.2114  
percent total var predicted/var original= 69.2 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.3 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= 0.357, x trend= 0

var(x)= 96.3515 var(xp)= 64.9509 var(xres)= 31.62  
percent var predicted/var original= 67.4 %

y0= -0.625, x trend= 0

var(y)= 49.9276 var(yp)= 27.8131 var(yres)= 22.2523  
percent var predicted/var original= 55.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.578	1.479	-0.352	1.42	35.03	90.25	317.91	211.32	0.15
MSF	0.0028219	1.104	1.779	0.126	1.52	139.94	91.07	205.53	132.47	0.39
ALP1	0.0343966	0.370	0.691	-0.168	0.49	170.33	88.56	252.75	136.07	0.29
2Q1	0.0357064	0.352	0.689	-0.259	0.57	161.66	115.43	17.32	195.48	0.26
Q1	0.0372185	0.474	0.626	-0.141	0.59	128.25	93.72	63.49	108.27	0.57
O1	0.0387307	1.051	0.811	-0.379	0.62	172.68	44.78	52.94	65.48	1.7
NO1	0.0402686	0.324	0.515	-0.225	0.42	8.29	87.13	350.23	159.52	0.4
*K1	0.0417807	1.642	0.749	-0.896	0.59	18.92	38.48	294.13	45.20	4.8
J1	0.0432929	0.637	0.580	-0.222	0.67	122.22	92.55	238.04	73.47	1.2
OO1	0.0448308	0.777	1.043	-0.308	0.85	3.03	67.76	217.25	111.54	0.55
UPS1	0.0463430	1.004	0.948	-0.359	1.08	108.22	101.04	220.48	81.62	1.1
EPS2	0.0761773	0.260	0.352	0.122	0.37	128.56	112.52	353.45	125.78	0.54
MU2	0.0776895	0.324	0.318	-0.173	0.39	147.68	108.96	5.40	111.44	1
*N2	0.0789992	2.840	0.459	-0.320	0.44	41.00	8.96	164.83	9.83	38
*M2	0.0805114	12.420	0.461	-1.053	0.43	32.32	2.34	199.98	2.02	7.3e+002
L2	0.0820236	0.530	0.433	0.185	0.45	38.82	67.96	299.73	69.51	1.5
*S2	0.0833333	2.040	0.426	-0.356	0.44	36.37	15.06	233.53	14.87	23
ETA2	0.0850736	0.323	0.576	-0.043	0.48	94.01	105.86	304.57	144.22	0.31
*MO3	0.1192421	0.418	0.293	-0.104	0.22	164.62	44.45	192.70	47.30	2
M3	0.1207671	0.158	0.170	-0.061	0.16	120.41	92.39	327.26	99.19	0.86
MK3	0.1222921	0.169	0.204	-0.053	0.18	160.45	96.66	94.23	96.68	0.69
SK3	0.1251141	0.171	0.229	-0.017	0.18	14.70	80.30	202.14	102.09	0.55
*MN4	0.1595106	0.293	0.198	0.009	0.20	44.37	44.53	59.28	47.62	2.2
*M4	0.1610228	0.613	0.214	-0.014	0.22	53.20	23.16	95.17	20.02	8.2
SN4	0.1623326	0.218	0.206	-0.100	0.21	116.85	85.82	27.35	74.60	1.1
*MS4	0.1638447	0.332	0.213	-0.166	0.18	6.30	42.10	151.19	69.33	2.4
S4	0.1666667	0.092	0.185	0.046	0.16	10.83	85.93	172.28	126.87	0.25
2MK5	0.2028035	0.173	0.156	-0.011	0.17	124.25	71.38	176.08	73.89	1.2
2SK5	0.2084474	0.113	0.171	0.023	0.15	99.55	97.58	349.79	100.06	0.44
*2MN6	0.2400221	0.317	0.148	0.043	0.15	41.34	29.71	303.71	28.68	4.6
*M6	0.2415342	0.578	0.132	0.095	0.16	53.02	16.53	357.40	16.29	19
*2MS6	0.2443561	0.222	0.138	0.055	0.13	63.86	46.08	34.32	46.26	2.6
2SM6	0.2471781	0.044	0.107	-0.024	0.10	86.89	136.17	127.40	180.47	0.17
3MK7	0.2833149	0.060	0.085	0.015	0.08	76.69	97.48	59.76	139.87	0.5
*M8	0.3220456	0.148	0.090	-0.045	0.09	60.95	51.07	338.39	53.62	2.7

total var= 146.2791 pred var= 92.7639  
percent total var predicted/var original= 63.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 15.9 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= 0.384, x trend= 0

var(x)= 119.0119 var(xp)= 80.2677 var(xres)= 37.948  
percent var predicted/var original= 67.4 %

y0= 0.286, x trend= 0

var(y)= 84.6576 var(yp)= 54.2281 var(yres)= 30.1389  
percent var predicted/var original= 64.1 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.617	1.320	0.263	1.36	118.63	81.80	158.41	69.96	1.5
MSF	0.0028219	1.639	1.503	-0.526	1.29	161.89	54.36	331.44	102.02	1.2
ALP1	0.0343966	0.317	0.671	-0.081	0.62	170.52	116.05	12.19	239.29	0.22
2Q1	0.0357064	0.624	0.876	-0.427	0.71	156.64	112.61	34.75	122.95	0.51
Q1	0.0372185	0.647	0.716	-0.394	0.70	168.70	108.46	65.74	124.81	0.82
O1	0.0387307	0.896	0.912	-0.196	0.79	16.29	66.97	253.05	67.37	0.97
NO1	0.0402686	0.291	0.455	-0.042	0.51	107.94	121.75	309.95	123.08	0.41
*K1	0.0417807	1.534	0.725	-0.380	0.84	59.05	36.87	343.82	32.10	4.5
J1	0.0432929	0.171	0.640	-0.092	0.59	87.24	144.10	22.26	217.04	0.072
OO1	0.0448308	0.633	0.867	-0.275	0.89	161.50	98.71	347.49	163.08	0.53
UPS1	0.0463430	0.548	0.944	-0.403	1.19	16.67	113.59	305.99	159.94	0.34
EPS2	0.0761773	0.690	0.834	-0.510	0.87	135.12	113.77	85.96	131.56	0.68
MU2	0.0776895	0.653	0.858	-0.248	0.81	43.21	93.91	81.81	112.92	0.58
*N2	0.0789992	3.436	1.118	-0.377	1.14	46.91	18.12	192.13	17.71	9.4
*M2	0.0805114	15.064	1.111	-1.519	1.18	38.80	4.16	206.81	4.45	1.8e+002
L2	0.0820236	1.320	1.023	-1.085	0.91	64.66	110.86	299.08	105.91	1.7
*S2	0.0833333	2.190	1.116	-0.656	1.14	33.92	36.73	239.41	38.47	3.9
ETA2	0.0850736	0.880	1.339	-0.112	1.38	175.81	126.87	210.37	196.98	0.43
MO3	0.1192421	0.260	0.313	-0.171	0.29	144.72	82.71	214.61	103.64	0.69
M3	0.1207671	0.213	0.244	-0.058	0.21	145.33	67.47	201.56	98.68	0.77
MK3	0.1222921	0.266	0.357	-0.052	0.23	15.81	50.04	262.45	105.68	0.56
SK3	0.1251141	0.158	0.281	0.035	0.23	158.77	70.27	141.69	118.20	0.31
MN4	0.1595106	0.081	0.281	-0.025	0.19	129.27	96.46	299.60	199.49	0.084
*M4	0.1610228	0.386	0.269	-0.186	0.37	106.46	87.36	106.56	70.35	2.1
SN4	0.1623326	0.285	0.290	-0.121	0.28	39.58	72.59	242.93	89.85	0.97
MS4	0.1638447	0.217	0.329	-0.017	0.24	9.77	64.10	26.51	109.63	0.44
S4	0.1666667	0.264	0.313	-0.061	0.26	18.11	64.36	16.48	100.99	0.71
2MK5	0.2028035	0.169	0.177	0.025	0.15	56.68	74.51	166.47	75.76	0.91
2SK5	0.2084474	0.262	0.228	0.072	0.22	23.36	58.33	78.73	64.23	1.3
2MN6	0.2400221	0.211	0.191	0.107	0.21	24.86	76.01	309.50	92.67	1.2
*M6	0.2415342	0.405	0.234	0.248	0.20	43.59	56.94	345.94	56.68	3
2MS6	0.2443561	0.131	0.203	-0.108	0.19	86.92	138.17	131.81	139.55	0.42
2SM6	0.2471781	0.216	0.214	-0.167	0.23	77.70	117.50	192.32	107.12	1
3MK7	0.2833149	0.094	0.162	0.045	0.14	143.96	102.22	302.56	118.28	0.34
M8	0.3220456	0.077	0.107	0.012	0.11	36.89	103.25	295.01	118.48	0.52

total var= 203.6695 pred var= 134.4958  
percent total var predicted/var original= 66.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.5 m

Mooring Number: 5072

File Name: 5072adc-alh.nc

nobs = 3359, ngood = 3350, 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= 0.0882, x trend= 0

var(x)= 82.0041 var(xp)= 68.2617 var(xres)= 13.6215  
percent var predicted/var original= 83.2 %

y0= -0.792, x trend= 0

var(y)= 31.8261 var(yp)= 9.9721 var(yres)= 21.8427  
percent var predicted/var original= 31.3 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.750	1.650	-0.686	0.74	107.65	35.64	233.73	59.12	1.1
MSF	0.0028219	0.730	0.957	0.020	0.77	137.95	56.51	44.65	104.68	0.58
ALP1	0.0343966	0.316	0.253	0.056	0.29	29.01	75.38	92.97	58.61	1.6
*2Q1	0.0357064	0.443	0.311	-0.025	0.35	135.19	49.23	323.78	48.54	2
Q1	0.0372185	0.340	0.296	-0.171	0.23	76.03	67.00	219.78	84.09	1.3
*O1	0.0387307	0.454	0.284	-0.078	0.31	31.58	52.09	301.53	44.77	2.6
NO1	0.0402686	0.167	0.208	-0.074	0.14	65.64	74.41	2.81	86.22	0.64
*K1	0.0417807	0.634	0.223	0.196	0.32	11.45	35.86	303.02	29.95	8.1
J1	0.0432929	0.390	0.336	-0.175	0.23	66.90	62.63	323.28	66.89	1.3
*OO1	0.0448308	0.713	0.417	-0.018	0.36	124.97	33.91	106.46	43.56	2.9
UPS1	0.0463430	0.318	0.341	-0.131	0.33	131.59	82.91	95.57	105.95	0.87
EPS2	0.0761773	0.244	0.195	0.000	0.23	155.21	76.18	38.77	76.30	1.6
MU2	0.0776895	0.222	0.215	0.085	0.24	11.43	72.97	8.97	72.49	1.1
*N2	0.0789992	2.352	0.260	0.041	0.27	24.65	7.25	168.43	6.37	82
*M2	0.0805114	11.672	0.259	-0.318	0.30	20.33	1.42	197.75	1.34	2e+003
*L2	0.0820236	0.682	0.296	-0.276	0.29	17.11	35.24	307.40	35.05	5.3
*S2	0.0833333	1.595	0.254	-0.134	0.29	26.53	9.81	236.03	10.66	39
ETA2	0.0850736	0.265	0.378	-0.194	0.34	76.41	111.68	243.93	120.60	0.49
*MO3	0.1192421	0.200	0.118	0.000	0.14	80.34	50.35	197.31	40.06	2.9
M3	0.1207671	0.087	0.098	-0.036	0.09	161.23	85.64	259.76	94.00	0.79
*MK3	0.1222921	0.180	0.121	-0.024	0.11	129.19	43.59	247.31	38.62	2.2
SK3	0.1251141	0.095	0.113	-0.019	0.10	31.03	77.91	83.07	95.42	0.7
*MN4	0.1595106	0.202	0.137	0.013	0.13	33.42	43.04	89.40	43.56	2.2
*M4	0.1610228	0.367	0.140	0.092	0.13	35.48	23.50	107.60	26.31	6.9
SN4	0.1623326	0.065	0.113	0.009	0.11	137.61	96.41	308.32	138.09	0.33
MS4	0.1638447	0.145	0.146	0.006	0.11	179.59	57.91	319.24	63.18	1
S4	0.1666667	0.115	0.102	0.075	0.12	126.44	108.46	151.58	118.86	1.3
2MK5	0.2028035	0.077	0.091	0.020	0.09	65.40	90.90	225.89	89.15	0.72
*2SK5	0.2084474	0.186	0.116	-0.071	0.10	23.52	44.33	84.69	49.84	2.6
*2MN6	0.2400221	0.333	0.115	0.082	0.12	25.98	22.42	296.16	23.58	8.4
*M6	0.2415342	0.593	0.114	0.030	0.11	39.05	11.38	348.85	12.26	27
*2MS6	0.2443561	0.212	0.130	-0.072	0.11	40.05	37.59	58.84	41.56	2.7
2SM6	0.2471781	0.085	0.096	-0.019	0.11	82.18	106.85	124.85	111.90	0.78
3MK7	0.2833149	0.069	0.080	0.012	0.09	111.94	91.24	53.88	95.55	0.74
M8	0.3220456	0.068	0.069	0.041	0.06	12.75	99.06	354.11	98.42	0.98

total var= 113.8302 pred var= 78.2338  
percent total var predicted/var original= 68.7 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.4 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= -0.288, x trend= 0

var(x)= 141.6416 var(xp)= 101.1504 var(xres)= 40.3075  
percent var predicted/var original= 71.4 %

y0= -0.905, x trend= 0

var(y)= 72.0687 var(yp)= 5.8396 var(yres)= 66.2382  
percent var predicted/var original= 8.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.994	3.077	0.371	2.27	90.84	55.53	65.00	119.93	0.42
MSF	0.0028219	2.859	3.180	-0.388	2.02	94.49	42.44	142.56	90.88	0.81
ALP1	0.0343966	0.336	0.687	-0.236	0.63	23.37	126.69	106.48	157.32	0.24
2Q1	0.0357064	0.643	0.744	-0.541	0.79	62.29	120.84	268.06	131.62	0.75
Q1	0.0372185	0.461	0.759	-0.151	0.61	77.61	114.29	8.46	133.64	0.37
O1	0.0387307	1.174	0.880	-0.522	0.85	6.47	52.33	277.67	64.93	1.8
NO1	0.0402686	0.646	0.505	-0.368	0.52	19.90	74.59	245.38	73.63	1.6
*K1	0.0417807	1.443	0.841	-0.422	0.78	169.89	37.11	110.92	36.44	2.9
J1	0.0432929	0.884	0.837	-0.097	0.83	130.11	71.16	169.68	60.77	1.1
OO1	0.0448308	0.536	0.869	-0.369	1.02	47.18	135.94	17.10	139.33	0.38
UPS1	0.0463430	0.254	0.718	-0.163	0.84	104.85	140.29	156.83	207.13	0.12
EPS2	0.0761773	0.193	0.540	-0.143	0.49	128.16	122.14	276.95	177.86	0.13
MU2	0.0776895	0.287	0.564	-0.128	0.54	92.59	150.51	48.43	133.62	0.26
*N2	0.0789992	3.201	0.788	-0.462	0.68	3.20	13.07	164.40	14.87	17
*M2	0.0805114	13.473	0.881	-1.877	0.66	10.17	2.88	201.69	3.79	2.3e+002
L2	0.0820236	0.641	0.714	-0.048	0.64	58.96	88.52	304.53	87.75	0.81
*S2	0.0833333	2.298	0.768	-1.033	0.76	15.76	25.62	232.90	30.21	8.9
ETA2	0.0850736	0.323	0.778	-0.095	0.83	103.60	147.90	75.40	182.07	0.17
MO3	0.1192421	0.396	0.358	-0.167	0.38	89.52	82.15	158.13	68.85	1.2
M3	0.1207671	0.240	0.246	-0.076	0.24	143.66	85.30	41.39	84.93	0.95
MK3	0.1222921	0.393	0.338	-0.042	0.31	153.85	47.61	116.49	61.81	1.3
SK3	0.1251141	0.194	0.277	0.103	0.27	151.73	107.78	53.39	122.50	0.49
MN4	0.1595106	0.112	0.204	-0.041	0.19	175.22	84.02	211.51	126.98	0.3
*M4	0.1610228	0.358	0.230	0.043	0.28	72.98	50.45	156.88	41.46	2.4
SN4	0.1623326	0.146	0.187	0.031	0.18	31.78	82.22	209.16	113.84	0.61
MS4	0.1638447	0.228	0.234	-0.055	0.23	31.46	69.10	238.96	89.94	0.95
S4	0.1666667	0.107	0.213	0.056	0.19	69.45	148.01	348.60	182.98	0.25
2MK5	0.2028035	0.133	0.195	-0.095	0.18	79.69	127.05	209.56	139.57	0.47
2SK5	0.2084474	0.109	0.159	-0.004	0.18	138.22	116.29	5.92	114.70	0.47
*2MN6	0.2400221	0.264	0.150	0.085	0.15	173.81	46.93	101.40	45.47	3.1
*M6	0.2415342	0.388	0.165	0.214	0.16	25.55	42.21	352.24	43.64	5.5
2MS6	0.2443561	0.198	0.145	-0.054	0.16	31.00	62.11	15.38	62.52	1.9
2SM6	0.2471781	0.067	0.141	-0.011	0.12	146.20	115.36	224.03	136.11	0.22
3MK7	0.2833149	0.081	0.134	0.038	0.13	113.65	120.80	323.07	138.34	0.37
M8	0.3220456	0.066	0.090	-0.000	0.09	28.79	94.60	241.07	107.00	0.55

total var= 213.7103 pred var= 106.99  
percent total var predicted/var original= 50.1 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.1 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= 0.539, x trend= 0

var(x)= 163.9338 var(xp)= 133.6227 var(xres)= 30.2137  
percent var predicted/var original= 81.5 %

y0= -0.716, x trend= 0

var(y)= 30.0589 var(yp)= 4.7581 var(yres)= 25.2795  
percent var predicted/var original= 15.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	2.150	1.469	0.749	1.24	121.98	41.54	201.46	53.30	2.1
MSF	0.0028219	0.440	1.049	-0.129	0.73	27.86	101.54	67.60	176.80	0.18
ALP1	0.0343966	0.191	0.351	0.113	0.35	124.29	117.85	12.23	144.31	0.3
2Q1	0.0357064	0.081	0.337	0.012	0.34	36.47	97.20	133.72	207.60	0.058
Q1	0.0372185	0.532	0.449	-0.011	0.44	126.37	71.55	116.45	64.95	1.4
O1	0.0387307	0.562	0.508	-0.179	0.39	8.02	48.47	269.20	74.24	1.2
NO1	0.0402686	0.217	0.280	-0.011	0.27	140.21	100.69	9.13	130.73	0.6
*K1	0.0417807	1.189	0.528	-0.296	0.44	38.15	28.53	330.62	29.53	5.1
J1	0.0432929	0.480	0.433	-0.133	0.40	27.37	55.94	306.62	70.48	1.2
OO1	0.0448308	0.625	0.626	-0.185	0.57	128.64	83.60	126.60	75.92	1
UPS1	0.0463430	0.285	0.549	-0.176	0.52	62.89	125.77	272.09	139.53	0.27
EPS2	0.0761773	0.496	1.021	-0.349	1.00	29.03	93.71	56.01	159.16	0.24
MU2	0.0776895	0.836	1.046	-0.390	1.03	4.39	75.35	211.34	121.17	0.64
*N2	0.0789992	3.774	1.574	-1.026	1.16	173.18	22.17	351.44	28.59	5.8
*M2	0.0805114	15.093	1.641	-1.726	1.09	2.18	4.75	203.00	6.19	85
L2	0.0820236	0.857	1.109	-0.721	1.10	42.17	109.73	183.88	151.12	0.6
*S2	0.0833333	2.678	1.606	-0.218	1.16	176.63	28.25	59.19	43.58	2.8
ETA2	0.0850736	1.020	1.828	-0.925	1.43	34.10	108.99	177.12	169.26	0.31
*MO3	0.1192421	0.363	0.209	-0.226	0.18	174.31	54.61	103.49	67.33	3
M3	0.1207671	0.116	0.146	-0.063	0.15	130.55	117.31	128.27	110.15	0.64
MK3	0.1222921	0.199	0.171	-0.096	0.18	143.16	80.52	173.08	85.50	1.4
SK3	0.1251141	0.199	0.198	-0.123	0.17	9.62	91.54	14.47	111.32	1
MN4	0.1595106	0.271	0.252	-0.054	0.26	132.85	73.92	40.78	73.59	1.2
*M4	0.1610228	0.510	0.261	-0.417	0.25	42.65	96.88	150.59	91.19	3.8
SN4	0.1623326	0.216	0.254	-0.110	0.24	107.68	97.01	317.04	105.73	0.72
MS4	0.1638447	0.215	0.253	-0.067	0.24	131.18	84.18	110.64	89.62	0.72
S4	0.1666667	0.114	0.233	-0.040	0.23	100.86	117.60	335.97	139.83	0.24
2MK5	0.2028035	0.070	0.125	0.018	0.13	64.09	124.57	178.72	168.17	0.32
2SK5	0.2084474	0.064	0.143	0.018	0.13	162.37	133.23	131.51	144.69	0.2
2MN6	0.2400221	0.206	0.155	0.014	0.13	129.77	46.39	34.58	53.26	1.8
*M6	0.2415342	0.443	0.139	0.236	0.16	18.65	35.21	343.33	34.62	10
2MS6	0.2443561	0.133	0.146	0.066	0.15	20.95	81.06	25.38	101.07	0.84
*2SM6	0.2471781	0.262	0.175	-0.004	0.17	38.12	40.67	90.13	38.70	2.3
3MK7	0.2833149	0.076	0.093	0.062	0.09	155.10	123.85	144.63	141.82	0.66
*M8	0.3220456	0.089	0.061	0.073	0.06	123.90	115.71	70.43	116.53	2.1

total var= 193.9927 pred var= 138.3808  
percent total var predicted/var original= 71.3 %



Tidal Analysis of Current at LT-A

ADCP Observations, 14.7 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= -1.21, x trend= 0

var(x)= 98.1577 var(xp)= 81.3583 var(xres)= 16.8274  
percent var predicted/var original= 82.9 %

y0= 1.64, x trend= 0

var(y)= 34.1179 var(yp)= 6.4033 var(yres)= 27.7225  
percent var predicted/var original= 18.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.322	1.691	-0.148	1.11	113.93	31.66	257.63	43.23	1.9
MSF	0.0028219	1.275	1.187	0.126	0.98	131.17	60.40	255.09	81.48	1.2
ALP1	0.0343966	0.414	0.416	-0.178	0.33	83.08	66.60	151.83	77.17	0.99
2Q1	0.0357064	0.227	0.355	0.011	0.36	89.88	84.16	258.48	118.36	0.41
Q1	0.0372185	0.309	0.327	0.127	0.37	58.20	79.92	172.04	93.33	0.89
*O1	0.0387307	0.623	0.408	0.456	0.40	18.08	92.72	279.79	84.05	2.3
NO1	0.0402686	0.133	0.255	-0.035	0.25	90.02	95.02	324.98	147.12	0.27
*K1	0.0417807	0.643	0.356	-0.007	0.46	160.20	41.45	123.72	34.43	3.3
J1	0.0432929	0.294	0.336	0.194	0.35	16.53	123.23	53.29	111.59	0.77
OO1	0.0448308	0.492	0.518	-0.051	0.53	20.86	87.90	89.36	78.68	0.9
UPS1	0.0463430	0.364	0.545	-0.029	0.45	86.99	76.26	262.13	118.03	0.45
EPS2	0.0761773	0.082	0.225	0.005	0.21	178.60	97.42	318.78	165.82	0.13
*MU2	0.0776895	0.511	0.327	-0.069	0.27	35.01	36.95	195.17	43.28	2.4
*N2	0.0789992	2.917	0.435	-0.181	0.28	16.59	5.39	171.06	7.91	45
*M2	0.0805114	12.200	0.386	-0.907	0.31	14.49	1.58	200.42	1.82	1e+003
*L2	0.0820236	0.679	0.364	-0.245	0.29	15.74	34.04	262.22	38.96	3.5
*S2	0.0833333	1.692	0.355	0.244	0.29	22.65	10.56	241.23	12.73	23
ETA2	0.0850736	0.241	0.367	0.022	0.30	152.13	100.10	52.79	117.12	0.43
*MO3	0.1192421	0.199	0.118	-0.075	0.15	16.29	57.09	280.40	49.93	2.9
*M3	0.1207671	0.181	0.105	0.024	0.13	142.06	41.33	30.81	38.02	3
MK3	0.1222921	0.103	0.117	0.067	0.12	73.51	99.07	314.89	121.26	0.77
SK3	0.1251141	0.085	0.101	0.067	0.12	169.99	151.25	174.44	116.13	0.71
*MN4	0.1595106	0.242	0.111	-0.160	0.10	49.54	64.28	102.74	64.46	4.8
*M4	0.1610228	0.447	0.140	-0.009	0.13	43.69	15.92	125.21	19.18	10
SN4	0.1623326	0.086	0.096	0.006	0.09	115.09	92.57	238.67	101.93	0.79
MS4	0.1638447	0.089	0.100	0.010	0.11	11.00	93.24	115.81	79.53	0.79
S4	0.1666667	0.063	0.095	0.044	0.09	136.31	127.66	146.36	158.16	0.45
2MK5	0.2028035	0.051	0.058	0.006	0.07	52.89	96.63	199.66	102.44	0.76
2SK5	0.2084474	0.100	0.086	0.003	0.08	153.19	50.18	150.69	52.62	1.3
*2MN6	0.2400221	0.248	0.085	0.154	0.08	29.05	37.47	304.33	40.75	8.5
*M6	0.2415342	0.428	0.097	0.105	0.08	30.02	13.47	348.79	13.23	20
*2MS6	0.2443561	0.235	0.103	-0.014	0.10	48.19	25.61	55.28	21.04	5.2
2SM6	0.2471781	0.061	0.081	0.022	0.08	3.03	84.97	10.84	111.55	0.57
3MK7	0.2833149	0.045	0.059	-0.009	0.05	105.48	85.80	50.21	124.14	0.58
*M8	0.3220456	0.106	0.048	-0.028	0.06	12.77	30.55	8.77	30.52	4.9

total var= 132.2756 pred var= 87.7616  
percent total var predicted/var original= 66.3 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.4 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= -1.09, x trend= 0

var(x)= 101.9595 var(xp)= 81.0633 var(xres)= 20.3989  
percent var predicted/var original= 79.5 %

y0= 0.588, x trend= 0

var(y)= 47.8645 var(yp)= 7.0974 var(yres)= 40.6459  
percent var predicted/var original= 14.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.367	2.216	-0.363	1.71	150.42	65.12	226.21	108.10	0.38
MSF	0.0028219	1.401	2.421	-0.382	1.26	107.68	39.80	340.82	149.10	0.33
ALP1	0.0343966	0.559	0.541	-0.423	0.52	145.83	116.68	276.21	106.42	1.1
2Q1	0.0357064	0.753	0.612	-0.222	0.53	61.46	55.02	249.81	57.67	1.5
*Q1	0.0372185	0.956	0.472	-0.123	0.67	159.80	50.79	48.25	35.05	4.1
O1	0.0387307	0.599	0.483	-0.042	0.60	166.16	77.74	88.02	64.63	1.5
*NO1	0.0402686	0.736	0.477	-0.087	0.70	171.90	51.95	326.92	41.40	2.4
*K1	0.0417807	0.957	0.430	-0.518	0.63	10.09	65.20	305.89	49.69	5
J1	0.0432929	0.200	0.478	-0.177	0.42	154.38	127.65	215.46	152.59	0.18
*OO1	0.0448308	1.564	0.683	-0.497	1.04	4.12	46.72	345.83	34.98	5.2
*UPS1	0.0463430	1.370	0.717	-0.769	0.87	8.94	70.66	161.00	60.55	3.7
EPS2	0.0761773	0.506	0.403	-0.282	0.42	28.63	81.87	128.62	77.60	1.6
MU2	0.0776895	0.516	0.425	-0.038	0.43	151.72	66.49	177.90	63.78	1.5
*N2	0.0789992	2.328	0.485	-0.347	0.57	16.58	14.45	180.12	12.38	23
*M2	0.0805114	12.362	0.501	-1.043	0.55	15.42	2.52	199.45	2.37	6.1e+002
L2	0.0820236	0.519	0.451	0.183	0.45	44.09	74.44	252.43	68.09	1.3
*S2	0.0833333	2.269	0.507	-0.109	0.57	15.35	14.57	235.12	12.66	20
ETA2	0.0850736	0.408	0.518	0.069	0.47	99.89	75.16	173.41	108.72	0.62
MO3	0.1192421	0.071	0.221	-0.043	0.23	136.11	119.61	121.88	218.85	0.1
M3	0.1207671	0.225	0.206	-0.115	0.25	97.12	106.23	195.42	83.01	1.2
MK3	0.1222921	0.111	0.223	-0.043	0.21	107.36	141.97	261.81	148.36	0.25
SK3	0.1251141	0.172	0.261	-0.015	0.23	60.09	113.22	277.67	127.10	0.44
*MN4	0.1595106	0.361	0.229	0.026	0.24	62.33	33.40	116.60	39.96	2.5
*M4	0.1610228	0.455	0.226	-0.016	0.22	35.01	34.06	118.56	32.43	4.1
SN4	0.1623326	0.147	0.178	-0.026	0.19	129.78	101.38	144.62	113.51	0.68
MS4	0.1638447	0.303	0.227	-0.015	0.22	55.64	45.99	184.55	50.21	1.8
S4	0.1666667	0.173	0.201	-0.082	0.19	101.74	93.12	114.84	103.56	0.74
2MK5	0.2028035	0.111	0.105	0.021	0.14	28.41	94.69	297.56	86.11	1.1
2SK5	0.2084474	0.096	0.128	-0.014	0.14	122.56	88.12	227.48	107.93	0.56
*2MN6	0.2400221	0.320	0.162	0.036	0.14	41.22	25.73	352.37	31.30	3.9
*M6	0.2415342	0.437	0.161	0.045	0.16	26.68	21.70	356.62	20.40	7.4
*2MS6	0.2443561	0.278	0.152	0.036	0.15	27.99	38.04	44.69	35.88	3.3
2SM6	0.2471781	0.117	0.124	-0.009	0.13	159.53	81.14	227.87	93.50	0.89
3MK7	0.2833149	0.063	0.083	-0.043	0.08	86.78	114.44	282.12	112.90	0.58
*M8	0.3220456	0.117	0.071	-0.032	0.07	81.88	47.51	290.21	50.10	2.7

total var= 149.824 pred var= 88.1607  
percent total var predicted/var original= 58.8 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.4 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= -0.438, x trend= 0

var(x)= 150.259 var(xp)= 121.8531 var(xres)= 28.5274  
percent var predicted/var original= 81.1 %

y0= 0.402, x trend= 0

var(y)= 43.6069 var(yp)= 11.7588 var(yres)= 31.8775  
percent var predicted/var original= 27.0 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	1.889	1.324	-0.285	0.98	78.92	35.12	2.98	48.60	2
MSF	0.0028219	0.455	0.865	-0.043	0.78	169.14	120.70	159.73	148.60	0.28
ALP1	0.0343966	0.141	0.332	-0.026	0.33	13.99	117.94	72.06	184.82	0.18
2Q1	0.0357064	0.233	0.359	0.134	0.37	75.51	122.60	272.49	130.83	0.42
Q1	0.0372185	0.535	0.454	-0.194	0.47	142.05	66.74	337.07	70.51	1.4
O1	0.0387307	0.651	0.474	0.013	0.50	23.90	53.49	274.92	59.05	1.9
NO1	0.0402686	0.339	0.502	-0.135	0.46	98.58	128.59	106.62	113.95	0.46
*K1	0.0417807	1.773	0.561	-0.773	0.49	23.82	19.65	318.14	19.88	10
J1	0.0432929	0.217	0.367	-0.026	0.36	120.65	108.45	190.64	143.09	0.35
OO1	0.0448308	0.733	0.671	-0.331	0.63	171.51	72.91	196.10	80.09	1.2
UPS1	0.0463430	0.488	0.555	-0.300	0.58	67.93	107.42	161.90	116.85	0.77
EPS2	0.0761773	0.836	0.745	-0.261	0.66	172.89	56.63	20.17	95.19	1.3
MU2	0.0776895	0.701	0.744	-0.249	0.63	152.44	70.77	38.69	91.40	0.89
*N2	0.0789992	3.712	0.934	-0.713	0.73	6.24	10.62	163.85	16.74	16
*M2	0.0805114	14.838	1.041	-2.091	0.77	13.48	2.91	212.97	3.73	2e+002
L2	0.0820236	0.630	0.688	-0.298	0.61	12.73	77.10	244.79	109.01	0.84
*S2	0.0833333	1.860	0.960	-0.539	0.81	21.88	29.26	256.21	39.51	3.8
ETA2	0.0850736	0.662	0.728	0.031	0.77	43.31	99.89	72.32	98.66	0.83
*MO3	0.1192421	0.397	0.207	-0.262	0.20	146.03	75.83	185.86	75.98	3.7
M3	0.1207671	0.076	0.164	0.041	0.13	166.30	119.52	214.51	167.86	0.21
*MK3	0.1222921	0.449	0.260	-0.118	0.18	162.24	27.82	146.89	39.41	3
SK3	0.1251141	0.164	0.213	-0.004	0.17	11.91	66.21	336.88	98.67	0.59
MN4	0.1595106	0.159	0.154	-0.138	0.15	21.46	117.65	162.80	129.04	1.1
*M4	0.1610228	0.437	0.180	-0.181	0.21	86.06	36.00	135.17	31.03	5.9
SN4	0.1623326	0.094	0.148	-0.013	0.14	90.75	138.67	130.42	128.16	0.4
MS4	0.1638447	0.190	0.162	-0.141	0.18	95.02	127.99	229.31	112.21	1.4
S4	0.1666667	0.134	0.165	-0.051	0.15	67.32	96.82	27.92	101.06	0.67
2MK5	0.2028035	0.125	0.112	-0.097	0.13	81.81	115.59	166.51	113.14	1.3
2SK5	0.2084474	0.090	0.110	-0.034	0.10	174.87	102.35	275.16	117.75	0.67
*2MN6	0.2400221	0.217	0.125	0.147	0.10	169.39	59.95	102.05	76.38	3
*M6	0.2415342	0.473	0.153	0.261	0.10	173.46	25.95	148.50	29.99	9.6
2MS6	0.2443561	0.178	0.161	0.011	0.10	175.18	37.88	194.66	53.55	1.2
2SM6	0.2471781	0.085	0.106	-0.027	0.12	39.99	88.06	66.90	126.36	0.64
3MK7	0.2833149	0.051	0.073	0.023	0.07	25.82	94.17	355.57	130.18	0.49
M8	0.3220456	0.055	0.052	0.012	0.06	87.06	97.49	24.57	89.40	1.1

total var= 193.8659 pred var= 133.6118  
percent total var predicted/var original= 68.9 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.6 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= -0.979, x trend= 0

var(x)= 83.8215 var(xp)= 73.7743 var(xres)= 10.0546  
percent var predicted/var original= 88.0 %

y0= 1.34, x trend= 0

var(y)= 27.5646 var(yp)= 4.5198 var(yres)= 23.0357  
percent var predicted/var original= 16.4 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.393	1.174	-0.407	1.05	114.59	56.08	251.12	65.80	1.4
MSF	0.0028219	0.684	1.084	-0.215	0.90	125.42	85.62	37.15	132.46	0.4
ALP1	0.0343966	0.288	0.234	0.052	0.28	169.51	69.14	15.93	68.41	1.5
2Q1	0.0357064	0.291	0.276	-0.030	0.22	90.02	46.14	181.22	67.82	1.1
Q1	0.0372185	0.311	0.305	-0.079	0.20	73.46	50.90	239.71	64.16	1
*O1	0.0387307	0.672	0.262	0.116	0.37	3.24	31.74	267.38	23.97	6.6
NO1	0.0402686	0.474	0.470	0.049	0.38	81.22	53.15	314.37	58.44	1
*K1	0.0417807	0.603	0.261	0.111	0.33	26.31	33.43	332.10	29.61	5.3
J1	0.0432929	0.105	0.228	0.029	0.19	74.18	80.59	280.54	159.65	0.21
OO1	0.0448308	0.257	0.355	-0.219	0.39	168.04	129.12	104.04	135.71	0.52
UPS1	0.0463430	0.073	0.247	0.008	0.24	28.92	116.20	166.18	183.72	0.086
EPS2	0.0761773	0.127	0.175	-0.076	0.21	72.86	130.76	15.69	132.80	0.53
MU2	0.0776895	0.303	0.276	-0.085	0.22	20.97	57.63	143.49	68.64	1.2
*N2	0.0789992	2.800	0.317	-0.056	0.29	16.75	5.78	167.98	7.05	78
*M2	0.0805114	11.615	0.326	-0.770	0.27	12.73	1.29	199.34	1.53	1.3e+003
*L2	0.0820236	0.626	0.255	-0.283	0.24	25.29	30.94	233.34	37.95	6.1
*S2	0.0833333	1.915	0.322	-0.092	0.26	16.87	8.74	232.09	10.65	35
ETA2	0.0850736	0.128	0.252	0.075	0.24	100.44	147.24	31.56	146.39	0.26
*MO3	0.1192421	0.169	0.111	-0.043	0.09	115.84	46.55	137.17	46.98	2.3
M3	0.1207671	0.062	0.086	0.013	0.08	96.33	109.94	200.66	118.16	0.52
MK3	0.1222921	0.093	0.115	0.008	0.10	94.62	87.64	288.95	90.65	0.65
SK3	0.1251141	0.088	0.102	0.046	0.10	36.56	86.85	5.09	104.24	0.75
*MN4	0.1595106	0.252	0.109	-0.038	0.12	26.32	29.06	72.31	32.40	5.3
*M4	0.1610228	0.457	0.132	-0.008	0.11	27.24	13.98	115.55	16.00	12
SN4	0.1623326	0.106	0.100	-0.006	0.10	157.89	73.20	121.88	67.98	1.1
*MS4	0.1638447	0.163	0.108	-0.036	0.10	31.56	45.40	140.65	46.88	2.3
S4	0.1666667	0.065	0.103	-0.013	0.08	105.24	104.80	279.67	108.59	0.4
*2MK5	0.2028035	0.095	0.065	-0.020	0.08	99.08	62.68	262.85	56.19	2.1
*2SK5	0.2084474	0.148	0.081	0.041	0.08	44.52	39.54	112.11	41.17	3.4
*2MN6	0.2400221	0.320	0.087	0.022	0.07	37.76	14.68	311.93	14.57	13
*M6	0.2415342	0.535	0.088	0.039	0.08	32.19	8.64	358.58	9.68	37
*2MS6	0.2443561	0.206	0.081	0.017	0.09	48.04	24.84	46.78	28.83	6.5
2SM6	0.2471781	0.040	0.065	-0.016	0.07	20.04	111.09	78.49	130.08	0.38
3MK7	0.2833149	0.049	0.050	0.018	0.05	90.69	84.23	199.53	75.66	0.98
*M8	0.3220456	0.094	0.056	-0.004	0.05	35.06	38.01	321.68	31.78	2.8

total var= 111.3861 pred var= 78.2941  
percent total var predicted/var original= 70.3 %

Tidal Analysis of Current at LT-A

ADCP Observations, 15.9 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= -0.118, x trend= 0

var(x)= 106.3248 var(xp)= 85.1904 var(xres)= 21.3543  
percent var predicted/var original= 80.1 %

y0= -0.553, x trend= 0

var(y)= 31.3937 var(yp)= 11.212 var(yres)= 20.4461  
percent var predicted/var original= 35.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	4.296	1.466	-0.528	1.50	116.09	21.72	336.45	20.91	8.6
MSF	0.0028219	0.919	1.341	0.589	1.27	97.13	106.08	128.50	126.50	0.47
ALP1	0.0343966	0.411	0.588	-0.201	0.55	56.23	120.04	329.97	119.83	0.49
2Q1	0.0357064	0.335	0.537	-0.060	0.51	138.13	108.10	30.23	134.58	0.39
Q1	0.0372185	0.150	0.525	-0.003	0.52	49.33	138.64	13.14	201.34	0.082
O1	0.0387307	0.574	0.632	0.365	0.66	162.54	116.03	105.35	109.27	0.82
NO1	0.0402686	0.525	1.207	-0.103	1.07	166.75	126.67	29.03	178.88	0.19
K1	0.0417807	0.804	0.781	-0.091	0.65	173.40	61.33	135.08	64.21	1.1
J1	0.0432929	0.441	0.546	-0.121	0.53	7.62	87.94	88.29	117.93	0.65
OO1	0.0448308	0.482	0.962	0.234	0.90	150.31	122.84	233.00	147.34	0.25
UPS1	0.0463430	0.610	0.800	-0.013	0.68	135.11	99.70	201.97	111.17	0.58
EPS2	0.0761773	0.471	0.442	-0.197	0.43	3.11	105.90	290.48	89.54	1.1
MU2	0.0776895	0.268	0.377	0.075	0.35	119.60	100.16	55.62	133.00	0.5
*N2	0.0789992	2.060	0.492	0.217	0.60	3.96	15.86	155.07	14.99	18
*M2	0.0805114	12.415	0.496	-0.747	0.57	11.42	3.00	201.56	2.34	6.3e+002
L2	0.0820236	0.330	0.373	-0.065	0.39	63.08	70.54	287.93	92.68	0.78
*S2	0.0833333	2.247	0.492	-0.239	0.62	11.92	16.09	252.32	13.99	21
ETA2	0.0850736	0.168	0.405	-0.054	0.41	67.34	100.49	256.16	191.41	0.17
MO3	0.1192421	0.152	0.235	-0.093	0.21	28.33	123.20	324.46	137.58	0.42
M3	0.1207671	0.061	0.186	0.021	0.19	108.13	152.49	322.93	160.65	0.11
MK3	0.1222921	0.264	0.277	-0.110	0.25	128.54	82.75	253.53	83.21	0.91
SK3	0.1251141	0.150	0.237	-0.058	0.22	148.59	109.11	111.36	137.25	0.4
MN4	0.1595106	0.205	0.189	-0.022	0.22	2.54	75.56	41.04	72.59	1.2
*M4	0.1610228	0.441	0.209	0.132	0.25	3.37	37.61	103.08	40.07	4.4
SN4	0.1623326	0.239	0.214	0.009	0.22	7.56	64.31	51.16	59.15	1.2
MS4	0.1638447	0.105	0.179	0.044	0.17	25.73	123.58	111.77	136.70	0.34
S4	0.1666667	0.207	0.206	-0.092	0.20	89.57	81.09	163.16	84.08	1
2MK5	0.2028035	0.158	0.160	-0.008	0.12	17.19	52.89	309.57	76.82	0.98
2SK5	0.2084474	0.146	0.175	-0.111	0.13	142.18	109.19	99.28	139.36	0.7
2MN6	0.2400221	0.181	0.155	-0.065	0.14	51.29	67.54	318.03	67.72	1.4
*M6	0.2415342	0.478	0.155	-0.016	0.15	25.54	22.06	355.17	19.50	9.5
*2MS6	0.2443561	0.219	0.154	0.052	0.16	36.62	50.94	39.05	50.05	2
2SM6	0.2471781	0.078	0.125	-0.015	0.14	123.16	107.16	16.81	112.85	0.39
3MK7	0.2833149	0.078	0.085	0.013	0.09	138.81	82.08	79.54	85.03	0.83
M8	0.3220456	0.085	0.075	-0.004	0.07	173.91	66.09	131.24	98.97	1.3

total var= 137.7185 pred var= 96.4024  
percent total var predicted/var original= 70.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.5 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= -0.699, x trend= 0

var(x)= 127.1984 var(xp)= 87.7701 var(xres)= 39.1165  
percent var predicted/var original= 69.0 %

y0= 0.64, x trend= 0

var(y)= 84.2616 var(yp)= 12.4084 var(yres)= 71.7824  
percent var predicted/var original= 14.7 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.166	2.701	0.052	2.01	136.74	75.78	270.99	184.57	0.19
MSF	0.0028219	0.950	2.846	0.150	2.33	22.84	98.73	144.48	169.64	0.11
ALP1	0.0343966	0.182	0.457	0.033	0.41	57.60	131.66	155.35	167.71	0.16
2Q1	0.0357064	0.365	0.479	-0.147	0.48	22.52	101.56	310.10	121.82	0.58
Q1	0.0372185	0.423	0.435	-0.037	0.53	8.82	80.86	171.91	86.39	0.94
O1	0.0387307	0.552	0.509	0.051	0.59	157.02	73.47	83.72	73.96	1.2
NO1	0.0402686	1.066	1.143	-0.563	0.99	11.66	97.84	75.97	104.96	0.87
*K1	0.0417807	1.079	0.559	-0.423	0.56	43.89	46.28	329.06	49.33	3.7
J1	0.0432929	0.565	0.520	-0.324	0.50	45.99	91.93	349.90	76.97	1.2
OO1	0.0448308	0.452	0.661	0.219	0.68	128.31	109.81	114.95	127.32	0.47
UPS1	0.0463430	0.509	0.643	-0.120	0.61	57.18	94.92	129.14	103.50	0.63
EPS2	0.0761773	0.615	0.567	-0.400	0.54	172.18	114.25	117.35	123.20	1.2
MU2	0.0776895	0.540	0.572	-0.409	0.62	112.51	112.44	239.72	116.88	0.89
*N2	0.0789992	3.128	0.777	-0.275	0.77	15.78	14.49	169.36	14.51	16
*M2	0.0805114	13.287	0.787	-1.317	0.67	19.84	2.97	204.71	3.92	2.9e+002
*L2	0.0820236	1.067	0.614	-0.143	0.58	13.67	40.68	241.64	41.72	3
*S2	0.0833333	1.696	0.671	-0.385	0.71	18.13	28.77	242.75	30.78	6.4
ETA2	0.0850736	0.758	0.659	-0.490	0.70	120.80	104.15	177.53	96.47	1.3
MO3	0.1192421	0.167	0.238	0.070	0.20	88.96	104.56	343.50	108.26	0.49
M3	0.1207671	0.181	0.214	0.029	0.21	157.46	93.71	253.54	108.65	0.71
MK3	0.1222921	0.120	0.198	-0.032	0.21	85.08	127.09	309.66	151.79	0.36
SK3	0.1251141	0.132	0.182	-0.030	0.20	73.98	113.69	339.27	135.38	0.53
MN4	0.1595106	0.223	0.211	-0.004	0.24	97.09	87.01	133.12	74.28	1.1
*M4	0.1610228	0.288	0.183	0.014	0.25	79.94	58.02	131.42	45.66	2.5
SN4	0.1623326	0.219	0.208	-0.114	0.19	19.15	82.45	337.03	96.49	1.1
*MS4	0.1638447	0.381	0.213	-0.028	0.26	76.32	49.43	166.41	41.85	3.2
S4	0.1666667	0.202	0.180	-0.005	0.22	64.93	88.52	152.53	74.43	1.3
2MK5	0.2028035	0.125	0.121	0.027	0.11	103.72	77.60	149.70	94.06	1.1
2SK5	0.2084474	0.148	0.136	-0.065	0.12	139.48	78.90	343.57	80.38	1.2
*2MN6	0.2400221	0.456	0.172	0.021	0.17	7.31	24.12	303.18	23.99	7.1
*M6	0.2415342	0.525	0.180	0.131	0.18	30.79	20.89	353.51	24.29	8.5
*2MS6	0.2443561	0.185	0.127	0.070	0.14	55.06	72.58	59.34	72.59	2.1
2SM6	0.2471781	0.135	0.152	0.001	0.14	90.67	86.84	184.91	88.28	0.79
3MK7	0.2833149	0.127	0.094	0.006	0.12	87.26	62.14	113.40	56.70	1.8
M8	0.3220456	0.053	0.065	0.020	0.05	168.44	91.49	52.34	131.05	0.65

total var= 211.46 pred var= 100.1785  
percent total var predicted/var original= 47.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.8 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= -0.444, x trend= 0

var(x)= 64.6406 var(xp)= 50.3173 var(xres)= 14.2387  
percent var predicted/var original= 77.8 %

y0= -0.532, x trend= 0

var(y)= 35.4634 var(yp)= 16.1902 var(yres)= 19.3136  
percent var predicted/var original= 45.7 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.679	1.097	-0.202	0.84	89.35	94.18	317.11	123.06	0.38
MSF	0.0028219	0.524	0.899	-0.401	0.88	97.88	103.09	188.13	155.88	0.34
ALP1	0.0343966	0.237	0.289	0.075	0.23	81.02	70.31	320.56	95.45	0.67
2Q1	0.0357064	0.234	0.290	0.031	0.24	94.88	63.65	237.98	76.56	0.65
Q1	0.0372185	0.178	0.247	0.006	0.25	29.94	96.49	290.95	106.17	0.52
*O1	0.0387307	0.636	0.280	-0.161	0.42	4.98	37.74	286.63	29.41	5.2
NO1	0.0402686	0.160	0.361	-0.042	0.33	66.56	102.84	79.23	162.92	0.2
*K1	0.0417807	0.740	0.331	-0.020	0.32	33.76	28.58	291.09	27.15	5
J1	0.0432929	0.130	0.246	0.045	0.21	32.25	111.82	283.98	142.03	0.28
OO1	0.0448308	0.367	0.352	-0.086	0.34	55.71	67.64	240.00	75.11	1.1
UPS1	0.0463430	0.324	0.387	-0.042	0.28	91.35	57.79	206.41	73.22	0.7
EPS2	0.0761773	0.156	0.288	0.073	0.24	112.41	70.79	344.76	167.19	0.29
MU2	0.0776895	0.290	0.354	-0.245	0.33	23.41	122.58	93.79	127.82	0.67
*N2	0.0789992	2.245	0.306	-0.500	0.50	22.17	13.42	162.31	9.50	54
*M2	0.0805114	10.833	0.372	-0.596	0.43	29.45	2.38	194.82	1.99	8.5e+002
*L2	0.0820236	0.466	0.284	-0.222	0.33	24.90	64.92	246.74	50.87	2.7
*S2	0.0833333	1.799	0.376	-0.257	0.44	31.67	18.14	225.72	12.79	23
ETA2	0.0850736	0.096	0.323	-0.022	0.21	41.05	80.24	354.60	182.92	0.088
MO3	0.1192421	0.113	0.155	0.095	0.16	114.33	129.67	276.41	138.92	0.53
M3	0.1207671	0.137	0.146	-0.028	0.15	15.99	80.70	235.32	68.65	0.89
MK3	0.1222921	0.073	0.118	-0.003	0.11	21.44	117.84	325.59	155.95	0.38
*SK3	0.1251141	0.263	0.171	-0.094	0.14	70.52	53.45	228.65	52.71	2.4
MN4	0.1595106	0.254	0.185	-0.047	0.14	80.07	48.49	51.77	48.73	1.9
*M4	0.1610228	0.437	0.187	-0.152	0.21	11.77	37.66	96.60	33.13	5.5
SN4	0.1623326	0.130	0.172	0.091	0.16	153.18	119.62	232.75	119.43	0.58
MS4	0.1638447	0.298	0.213	0.014	0.20	60.41	38.23	137.40	41.56	2
S4	0.1666667	0.201	0.173	-0.081	0.18	36.41	85.88	291.05	82.04	1.4
2MK5	0.2028035	0.054	0.096	0.019	0.08	12.25	107.11	357.75	145.97	0.32
2SK5	0.2084474	0.085	0.104	0.006	0.12	70.94	109.55	331.71	111.24	0.66
*2MN6	0.2400221	0.326	0.129	-0.032	0.13	45.27	26.81	290.98	24.44	6.3
*M6	0.2415342	0.590	0.153	0.083	0.13	54.20	13.28	323.25	14.95	15
*2MS6	0.2443561	0.210	0.134	0.033	0.13	49.56	40.11	10.37	40.59	2.5
2SM6	0.2471781	0.096	0.107	0.029	0.10	139.96	84.38	96.80	87.79	0.81
3MK7	0.2833149	0.072	0.092	0.008	0.09	35.84	89.78	117.70	98.58	0.61
M8	0.3220456	0.073	0.075	0.053	0.07	81.97	116.22	286.55	116.11	0.96

total var= 100.1039 pred var= 66.5075  
percent total var predicted/var original= 66.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.6 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= -0.449, x trend= 0

var(x)= 86.3296 var(xp)= 73.3076 var(xres)= 12.9781  
percent var predicted/var original= 84.9 %

y0= -0.104, x trend= 0

var(y)= 20.9454 var(yp)= 3.312 var(yres)= 17.6483  
percent var predicted/var original= 15.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.724	1.006	-0.207	0.93	58.42	91.06	327.35	127.62	0.52
MSF	0.0028219	0.676	0.942	-0.510	0.95	84.28	95.16	179.44	143.17	0.52
ALP1	0.0343966	0.229	0.280	0.042	0.22	77.51	66.30	331.30	104.88	0.67
2Q1	0.0357064	0.255	0.281	-0.070	0.24	60.36	76.52	247.94	88.73	0.82
Q1	0.0372185	0.113	0.206	0.010	0.21	48.56	94.28	313.79	152.26	0.3
*O1	0.0387307	0.673	0.264	-0.214	0.29	169.65	41.90	101.64	27.57	6.5
NO1	0.0402686	0.209	0.388	-0.140	0.37	169.46	135.56	289.47	170.10	0.29
*K1	0.0417807	0.758	0.238	0.024	0.35	14.83	29.65	287.43	19.35	10
J1	0.0432929	0.094	0.237	0.020	0.21	25.59	123.50	310.58	163.41	0.16
OO1	0.0448308	0.321	0.354	-0.026	0.37	25.26	94.27	255.00	70.90	0.82
UPS1	0.0463430	0.199	0.306	-0.185	0.31	106.09	100.95	165.69	160.34	0.42
EPS2	0.0761773	0.216	0.287	0.147	0.26	93.03	105.44	325.84	115.57	0.57
MU2	0.0776895	0.332	0.270	-0.128	0.27	7.72	79.45	99.96	82.52	1.5
*N2	0.0789992	2.339	0.374	-0.277	0.30	13.67	8.27	167.97	8.07	39
*M2	0.0805114	11.660	0.324	-0.745	0.33	10.67	1.66	202.01	1.81	1.3e+003
*L2	0.0820236	0.585	0.278	-0.058	0.26	10.93	27.84	247.31	29.70	4.4
*S2	0.0833333	1.843	0.317	-0.253	0.32	17.02	10.62	232.19	10.50	34
ETA2	0.0850736	0.098	0.223	-0.081	0.23	166.76	134.84	205.05	157.19	0.19
MO3	0.1192421	0.125	0.157	0.050	0.12	103.47	90.43	266.53	112.90	0.63
M3	0.1207671	0.140	0.145	-0.111	0.14	78.33	97.69	187.62	135.79	0.94
MK3	0.1222921	0.088	0.140	-0.013	0.11	80.75	82.23	259.30	136.20	0.39
SK3	0.1251141	0.207	0.158	-0.039	0.14	57.55	58.48	225.68	56.73	1.7
*MN4	0.1595106	0.272	0.159	-0.021	0.20	57.68	48.02	50.74	35.67	2.9
*M4	0.1610228	0.471	0.234	-0.258	0.17	23.31	35.41	87.59	37.08	4.1
SN4	0.1623326	0.126	0.159	0.039	0.14	159.42	93.45	312.28	108.28	0.63
MS4	0.1638447	0.254	0.181	0.037	0.17	44.92	55.14	141.17	56.78	2
S4	0.1666667	0.179	0.178	-0.056	0.18	74.57	88.30	250.93	82.68	1
2MK5	0.2028035	0.059	0.072	-0.013	0.07	146.70	102.78	191.49	119.55	0.66
2SK5	0.2084474	0.056	0.086	0.019	0.08	79.97	92.49	345.02	117.48	0.42
*2MN6	0.2400221	0.318	0.116	0.052	0.13	27.74	30.64	309.81	23.71	7.6
*M6	0.2415342	0.532	0.138	0.119	0.14	39.26	16.03	352.00	14.56	15
*2MS6	0.2443561	0.196	0.133	0.028	0.11	53.79	40.06	50.96	38.20	2.2
2SM6	0.2471781	0.108	0.112	0.001	0.11	137.14	71.68	115.86	72.62	0.93
3MK7	0.2833149	0.064	0.068	-0.013	0.08	31.77	87.15	120.59	77.28	0.88
M8	0.3220456	0.085	0.071	0.035	0.06	79.87	60.13	327.07	63.56	1.4

total var= 107.275 pred var= 76.6197  
percent total var predicted/var original= 71.4 %



Tidal Analysis of Current at LT-A

ADCP Observations, 14.6 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= -0.342, x trend= 0

var(x)= 104.883 var(xp)= 70.0167 var(xres)= 34.2229  
percent var predicted/var original= 66.8 %

y0= 0.0258, x trend= 0

var(y)= 47.5136 var(yp)= 14.5249 var(yres)= 32.8978  
percent var predicted/var original= 30.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.880	1.830	-0.078	2.20	120.11	97.55	263.93	70.91	1.1
MSF	0.0028219	1.458	1.803	-0.013	1.62	144.05	77.45	63.18	109.10	0.65
ALP1	0.0343966	0.154	0.477	-0.106	0.42	139.06	131.86	236.71	184.46	0.1
2Q1	0.0357064	0.465	0.566	0.112	0.53	168.63	90.48	119.03	99.01	0.67
Q1	0.0372185	0.075	0.446	0.012	0.39	120.01	135.20	72.16	223.45	0.028
O1	0.0387307	0.855	0.619	0.104	0.66	12.14	46.73	265.67	57.20	1.9
NO1	0.0402686	0.452	0.613	-0.353	0.63	160.54	134.23	69.78	152.33	0.54
*K1	0.0417807	1.420	0.593	-0.683	0.63	27.80	39.38	270.79	39.17	5.7
J1	0.0432929	0.406	0.590	-0.208	0.49	37.25	97.95	318.81	114.31	0.47
OO1	0.0448308	0.688	0.597	-0.391	0.59	82.82	84.49	83.44	91.99	1.3
UPS1	0.0463430	0.333	0.494	-0.027	0.54	94.47	122.45	0.75	130.01	0.45
EPS2	0.0761773	0.424	0.445	-0.061	0.43	69.11	81.12	317.33	84.49	0.91
MU2	0.0776895	0.412	0.384	0.126	0.44	47.04	83.30	235.15	92.07	1.1
*N2	0.0789992	3.160	0.550	-0.289	0.57	21.79	11.42	154.29	10.32	33
*M2	0.0805114	12.424	0.541	-0.326	0.61	23.80	2.76	202.48	2.55	5.3e+002
L2	0.0820236	0.705	0.503	-0.206	0.49	174.05	49.62	70.90	50.81	2
*S2	0.0833333	2.240	0.502	-0.227	0.67	28.44	15.91	256.77	14.54	20
ETA2	0.0850736	0.333	0.401	0.046	0.42	165.62	94.09	220.25	99.31	0.69
MO3	0.1192421	0.194	0.187	0.099	0.20	44.45	90.28	255.07	93.49	1.1
M3	0.1207671	0.099	0.180	0.037	0.17	42.86	107.73	212.19	146.87	0.3
MK3	0.1222921	0.184	0.180	-0.134	0.21	179.21	135.65	131.85	137.78	1
SK3	0.1251141	0.109	0.181	0.018	0.16	13.56	128.05	57.56	137.13	0.36
*MN4	0.1595106	0.386	0.212	-0.057	0.26	71.35	44.58	47.33	34.81	3.3
*M4	0.1610228	0.757	0.205	-0.228	0.27	72.29	24.19	54.13	18.32	14
SN4	0.1623326	0.278	0.198	-0.037	0.25	82.00	67.27	191.56	54.42	2
*MS4	0.1638447	0.389	0.212	-0.110	0.24	61.44	41.48	118.96	40.22	3.4
S4	0.1666667	0.079	0.191	-0.009	0.15	25.79	91.02	79.12	167.71	0.17
2MK5	0.2028035	0.172	0.148	-0.098	0.14	103.56	85.95	172.74	104.24	1.4
2SK5	0.2084474	0.155	0.141	0.072	0.13	54.33	81.63	246.87	82.28	1.2
*2MN6	0.2400221	0.315	0.150	0.205	0.15	40.59	61.50	284.79	62.86	4.4
*M6	0.2415342	0.503	0.150	0.246	0.16	59.78	29.44	3.96	26.65	11
*2MS6	0.2443561	0.244	0.159	0.061	0.13	24.85	44.48	49.33	46.58	2.4
2SM6	0.2471781	0.094	0.114	-0.037	0.12	148.09	100.94	308.60	110.13	0.68
3MK7	0.2833149	0.109	0.104	-0.034	0.11	98.16	89.68	238.92	78.06	1.1
M8	0.3220456	0.065	0.075	0.030	0.07	50.96	105.85	301.19	100.46	0.75

total var= 152.3966 pred var= 84.5415  
percent total var predicted/var original= 55.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.3 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= -1.65, x trend= 0

var(x)= 133.9905 var(xp)= 110.8305 var(xres)= 23.0352  
percent var predicted/var original= 82.7 %

y0= 0.584, x trend= 0

var(y)= 38.6756 var(yp)= 3.8748 var(yres)= 34.7636  
percent var predicted/var original= 10.0 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.680	1.681	-0.867	1.56	37.61	82.26	15.87	89.53	1
MSF	0.0028219	1.470	1.312	-0.370	1.51	21.09	90.23	235.13	78.47	1.3
ALP1	0.0343966	0.301	0.342	-0.034	0.29	152.44	84.30	160.77	83.88	0.77
2Q1	0.0357064	0.158	0.284	-0.012	0.25	124.19	96.69	164.00	124.78	0.31
Q1	0.0372185	0.192	0.283	-0.090	0.28	28.48	117.14	301.53	128.41	0.46
*O1	0.0387307	0.598	0.339	-0.089	0.36	178.16	42.28	68.48	48.92	3.1
NO1	0.0402686	0.280	0.298	-0.212	0.25	132.61	110.46	205.43	121.40	0.88
*K1	0.0417807	1.059	0.340	-0.017	0.36	35.41	21.91	316.62	20.35	9.7
J1	0.0432929	0.150	0.245	0.016	0.28	68.83	100.43	66.50	121.34	0.37
OO1	0.0448308	0.177	0.258	0.015	0.24	25.85	113.78	206.90	125.16	0.47
UPS1	0.0463430	0.399	0.351	-0.171	0.33	100.28	62.28	330.10	68.50	1.3
EPS2	0.0761773	0.418	0.455	-0.256	0.54	140.61	100.73	61.49	106.31	0.84
MU2	0.0776895	0.623	0.511	-0.446	0.54	88.40	91.39	60.41	88.33	1.5
*N2	0.0789992	3.371	0.691	-0.012	0.54	6.05	10.17	164.07	11.76	24
*M2	0.0805114	14.156	0.631	-1.004	0.51	8.60	2.37	201.80	2.60	5e+002
*L2	0.0820236	1.481	0.593	-0.587	0.60	24.57	30.90	246.19	33.36	6.2
*S2	0.0833333	2.212	0.641	-0.398	0.58	15.85	15.24	242.63	20.52	12
ETA2	0.0850736	0.265	0.401	-0.141	0.36	143.08	110.77	226.92	136.64	0.44
MO3	0.1192421	0.226	0.174	-0.050	0.18	44.23	60.56	217.53	55.36	1.7
M3	0.1207671	0.105	0.147	-0.040	0.13	61.17	104.74	248.51	132.92	0.51
*MK3	0.1222921	0.337	0.170	-0.097	0.20	175.05	40.39	129.44	35.45	3.9
SK3	0.1251141	0.074	0.144	-0.005	0.12	57.66	115.01	66.29	145.81	0.26
*MN4	0.1595106	0.329	0.191	-0.186	0.20	38.03	64.14	60.47	61.09	3
*M4	0.1610228	0.819	0.229	-0.087	0.24	41.42	18.04	91.21	17.61	13
SN4	0.1623326	0.167	0.198	0.040	0.21	23.19	101.48	298.59	85.54	0.71
MS4	0.1638447	0.240	0.198	-0.028	0.24	9.40	69.04	132.83	59.61	1.5
S4	0.1666667	0.166	0.206	-0.023	0.21	168.07	108.25	5.69	91.79	0.65
2MK5	0.2028035	0.148	0.134	0.040	0.13	42.34	68.66	137.81	73.56	1.2
2SK5	0.2084474	0.086	0.139	0.071	0.12	44.93	131.46	40.10	140.97	0.38
*2MN6	0.2400221	0.472	0.172	-0.023	0.18	33.66	21.47	337.71	21.47	7.5
*M6	0.2415342	0.522	0.179	0.010	0.16	32.79	16.61	2.56	20.63	8.5
2MS6	0.2443561	0.185	0.151	0.048	0.13	30.68	54.24	45.13	63.60	1.5
2SM6	0.2471781	0.040	0.120	0.001	0.11	77.20	130.22	74.93	184.04	0.11
3MK7	0.2833149	0.050	0.080	0.020	0.07	90.41	122.13	100.63	123.08	0.39
*M8	0.3220456	0.128	0.073	0.018	0.07	51.39	41.77	279.67	35.27	3.1

total var= 172.666 pred var= 114.7053  
percent total var predicted/var original= 66.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 15.0 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= 1.39, x trend= 0

var(x)= 137.3024 var(xp)= 102.4217 var(xres)= 34.9124  
percent var predicted/var original= 74.6 %

y0= -4.21, x trend= 0

var(y)= 36.2362 var(yp)= 10.848 var(yres)= 25.4821  
percent var predicted/var original= 29.9 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
O1	0.0387307	1.159	1.398	-0.872	1.24	7.92	128.06	198.38	110.51	0.69
K1	0.0417807	1.013	1.445	-0.302	1.38	89.49	90.06	336.80	103.70	0.49
*M2	0.0805114	14.926	2.718	0.595	1.32	17.68	5.06	216.70	10.80	30
M3	0.1207671	0.346	0.497	0.207	0.41	39.06	102.72	191.23	114.58	0.48
M4	0.1610228	1.410	1.139	-0.393	0.88	58.36	46.19	112.76	59.03	1.5
2MK5	0.2028035	0.315	0.260	0.018	0.32	26.33	83.20	157.90	68.43	1.5
2SK5	0.2084474	0.270	0.286	-0.109	0.28	151.16	110.42	199.56	85.44	0.89
*M6	0.2415342	0.814	0.489	0.491	0.46	76.67	74.77	69.14	64.73	2.8
3MK7	0.2833149	0.412	0.334	-0.053	0.37	57.73	53.95	91.58	71.08	1.5
M8	0.3220456	0.361	0.275	0.233	0.29	56.67	95.45	22.53	92.87	1.7

total var= 173.5386 pred var= 113.2697  
percent total var predicted/var original= 65.3 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.7 m

Mooring Number: 6651

File Name: 6651adc-alh.nc

nobs = 2541, ngood = 2529, 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= -0.426, x trend= 0

var(x)= 82.0353 var(xp)= 71.92 var(xres)= 10.0277  
percent var predicted/var original= 87.7 %

y0= 0.771, x trend= 0

var(y)= 16.8044 var(yp)= 4.4043 var(yres)= 12.4142  
percent var predicted/var original= 26.2 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	0.638	0.976	-0.561	0.86	104.29	120.24	222.92	143.05	0.43
MSF	0.0028219	0.772	0.953	-0.026	0.79	80.94	86.46	330.10	102.59	0.66
ALP1	0.0343966	0.336	0.291	-0.085	0.28	30.86	79.52	17.96	75.81	1.3
2Q1	0.0357064	0.331	0.312	0.088	0.27	19.96	71.69	263.67	75.47	1.1
Q1	0.0372185	0.240	0.286	-0.075	0.27	21.22	99.59	188.99	100.45	0.7
*O1	0.0387307	0.586	0.365	-0.057	0.33	6.16	37.85	282.93	37.01	2.6
NO1	0.0402686	0.143	0.212	0.052	0.20	9.60	110.35	39.59	141.44	0.46
*K1	0.0417807	0.709	0.374	-0.215	0.33	157.45	37.66	128.61	35.19	3.6
J1	0.0432929	0.086	0.259	-0.031	0.25	105.27	125.36	335.93	176.95	0.11
OO1	0.0448308	0.225	0.237	0.056	0.23	179.03	91.48	90.78	105.22	0.91
UPS1	0.0463430	0.349	0.275	0.074	0.29	82.63	61.38	34.30	58.02	1.6
EPS2	0.0761773	0.281	0.252	0.166	0.28	3.81	93.53	10.00	79.82	1.2
*MU2	0.0776895	0.496	0.297	-0.090	0.37	26.89	49.12	60.63	41.74	2.8
*N2	0.0789992	2.538	0.311	-0.444	0.35	14.57	8.62	174.26	7.26	66
*M2	0.0805114	11.902	0.275	-0.809	0.34	12.76	1.48	204.79	1.36	1.9e+003
*L2	0.0820236	0.593	0.302	0.221	0.36	15.07	60.75	267.71	43.27	3.9
*S2	0.0833333	1.549	0.280	-0.276	0.37	16.83	13.86	237.05	11.61	31
ETA2	0.0850736	0.267	0.234	0.013	0.25	128.12	61.00	85.09	78.12	1.3
*MO3	0.1192421	0.255	0.171	0.004	0.18	173.03	43.25	202.98	41.77	2.2
M3	0.1207671	0.087	0.149	0.003	0.17	18.95	110.98	278.41	119.96	0.34
MK3	0.1222921	0.165	0.141	0.046	0.16	21.11	73.95	77.21	71.26	1.4
SK3	0.1251141	0.058	0.127	0.018	0.14	166.92	132.51	147.57	150.85	0.21
*MN4	0.1595106	0.303	0.212	0.072	0.21	16.67	42.11	80.48	39.76	2
*M4	0.1610228	0.530	0.184	-0.131	0.19	17.61	23.40	97.53	22.18	8.3
SN4	0.1623326	0.073	0.145	-0.008	0.13	142.77	124.12	265.73	140.60	0.25
*MS4	0.1638447	0.315	0.188	0.016	0.20	53.56	36.27	138.43	35.75	2.8
S4	0.1666667	0.087	0.157	-0.047	0.15	68.36	117.10	180.78	157.73	0.31
2MK5	0.2028035	0.060	0.105	0.032	0.09	108.48	118.66	281.20	141.67	0.33
2SK5	0.2084474	0.058	0.094	0.018	0.10	39.96	96.64	2.48	161.51	0.38
*2MN6	0.2400221	0.266	0.122	0.050	0.12	17.12	33.67	296.53	33.89	4.8
*M6	0.2415342	0.560	0.131	0.102	0.15	30.86	15.59	347.75	14.58	18
*2MS6	0.2443561	0.199	0.112	0.039	0.13	23.08	42.89	24.23	45.23	3.2
2SM6	0.2471781	0.047	0.094	0.022	0.10	84.49	116.00	32.38	139.02	0.25
3MK7	0.2833149	0.090	0.098	0.004	0.08	50.63	69.28	283.99	67.19	0.83
*M8	0.3220456	0.123	0.067	0.006	0.07	39.05	35.77	9.32	37.56	3.4

total var= 98.8398 pred var= 76.3242  
percent total var predicted/var original= 77.2 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.4 m

Mooring Number: 6831

File Name: 6831adc-alh.nc

nobs = 2492, ngood = 2479, 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= -0.816, x trend= 0

var(x)= 97.359 var(xp)= 77.2604 var(xres)= 19.9727  
percent var predicted/var original= 79.4 %

y0= -0.379, x trend= 0

var(y)= 31.7386 var(yp)= 7.4149 var(yres)= 24.2857  
percent var predicted/var original= 23.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	2.171	1.497	0.132	1.77	120.11	57.82	164.04	54.60	2.1
MSF	0.0028219	0.751	1.551	0.158	1.10	176.05	87.69	56.65	200.05	0.23
ALP1	0.0343966	0.211	0.480	-0.040	0.41	73.10	108.52	251.83	150.03	0.19
2Q1	0.0357064	0.330	0.463	-0.079	0.41	99.60	96.42	306.17	114.03	0.51
Q1	0.0372185	0.241	0.459	-0.019	0.46	166.43	116.33	48.87	172.82	0.27
O1	0.0387307	0.736	0.578	0.046	0.56	129.00	56.95	58.53	53.44	1.6
NO1	0.0402686	0.098	0.339	-0.042	0.37	14.66	147.68	79.72	194.50	0.084
*K1	0.0417807	0.979	0.521	-0.501	0.63	20.70	56.49	281.81	59.27	3.5
J1	0.0432929	0.264	0.475	-0.118	0.38	95.93	89.92	50.40	145.45	0.31
OO1	0.0448308	0.464	0.426	0.002	0.43	38.34	76.51	165.59	74.14	1.2
UPS1	0.0463430	0.173	0.368	0.079	0.35	144.30	119.00	324.65	212.27	0.22
EPS2	0.0761773	0.314	0.347	0.121	0.37	84.53	94.30	166.67	88.12	0.82
*MU2	0.0776895	0.684	0.353	-0.089	0.45	43.98	46.02	131.48	41.44	3.8
*N2	0.0789992	3.267	0.437	-0.684	0.46	9.13	9.18	171.60	8.75	56
*M2	0.0805114	12.192	0.455	-0.788	0.46	14.32	2.24	203.87	2.30	7.2e+002
*L2	0.0820236	0.752	0.493	0.265	0.51	1.24	47.62	246.95	53.80	2.3
*S2	0.0833333	2.446	0.487	-0.122	0.46	6.63	11.75	238.83	11.10	25
ETA2	0.0850736	0.319	0.318	-0.200	0.32	39.05	93.69	57.98	99.28	1
MO3	0.1192421	0.141	0.149	-0.027	0.17	88.09	94.43	181.90	89.13	0.89
M3	0.1207671	0.271	0.196	-0.048	0.20	65.10	55.79	149.55	58.20	1.9
MK3	0.1222921	0.179	0.195	-0.075	0.18	131.86	85.68	58.00	89.77	0.84
SK3	0.1251141	0.104	0.162	-0.059	0.18	85.32	135.17	221.07	125.90	0.41
MN4	0.1595106	0.166	0.185	-0.113	0.18	10.14	95.67	134.68	132.79	0.81
*M4	0.1610228	0.435	0.209	-0.132	0.28	60.22	42.47	111.95	39.82	4.3
SN4	0.1623326	0.288	0.273	-0.047	0.20	178.01	42.31	111.84	60.04	1.1
*MS4	0.1638447	0.358	0.184	-0.154	0.22	55.13	59.25	172.84	49.44	3.8
S4	0.1666667	0.292	0.219	-0.075	0.19	161.90	48.21	49.18	59.39	1.8
2MK5	0.2028035	0.088	0.136	0.035	0.11	35.38	112.14	155.84	128.46	0.42
2SK5	0.2084474	0.062	0.127	-0.043	0.12	59.21	127.24	77.20	173.01	0.24
*2MN6	0.2400221	0.406	0.138	0.083	0.14	35.35	19.31	316.64	20.90	8.6
*M6	0.2415342	0.464	0.143	0.166	0.13	43.39	22.07	350.59	23.98	10
*2MS6	0.2443561	0.322	0.131	0.146	0.15	78.61	36.08	80.62	29.81	6
2SM6	0.2471781	0.064	0.105	0.027	0.09	123.03	125.52	335.43	119.86	0.37
3MK7	0.2833149	0.080	0.094	0.031	0.09	96.54	91.94	179.46	105.95	0.71
*M8	0.3220456	0.148	0.090	-0.025	0.09	67.31	38.54	10.09	45.25	2.7

total var= 129.0976 pred var= 84.6753  
percent total var predicted/var original= 65.6 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.4 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= -1.55, x trend= 0

var(x)= 119.564 var(xp)= 87.1505 var(xres)= 32.5429  
percent var predicted/var original= 72.9 %

y0= 0.00148, x trend= 0

var(y)= 64.8967 var(yp)= 8.1151 var(yres)= 56.8759  
percent var predicted/var original= 12.5 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	3.782	3.018	-0.520	1.75	112.79	30.18	72.27	54.44	1.6
MSF	0.0028219	3.078	2.771	0.498	1.77	87.69	29.80	349.58	60.72	1.2
ALP1	0.0343966	0.481	0.403	-0.134	0.44	97.58	83.25	71.34	71.84	1.4
2Q1	0.0357064	0.291	0.367	0.070	0.38	113.75	115.84	256.21	102.62	0.63
Q1	0.0372185	0.464	0.487	-0.199	0.35	158.35	72.19	80.46	89.44	0.91
*O1	0.0387307	0.778	0.508	-0.050	0.43	176.15	32.37	67.49	46.15	2.3
NO1	0.0402686	0.215	0.354	-0.069	0.25	148.13	79.46	66.95	114.08	0.37
*K1	0.0417807	1.084	0.423	-0.021	0.53	46.69	27.50	325.85	26.60	6.6
J1	0.0432929	0.166	0.364	-0.132	0.35	115.98	117.73	249.95	194.12	0.21
OO1	0.0448308	0.244	0.312	-0.128	0.27	155.59	94.46	233.90	120.37	0.61
UPS1	0.0463430	0.276	0.360	-0.125	0.30	175.69	83.32	100.24	113.80	0.59
EPS2	0.0761773	0.339	0.474	0.055	0.49	81.67	122.18	303.20	114.61	0.51
MU2	0.0776895	0.755	0.576	-0.227	0.60	55.00	73.39	52.17	67.59	1.7
*N2	0.0789992	2.548	0.671	-0.342	0.63	8.87	15.83	177.32	18.85	14
*M2	0.0805114	13.410	0.732	-0.117	0.63	16.37	2.68	205.57	3.00	3.4e+002
*L2	0.0820236	1.311	0.831	0.047	0.91	42.69	46.41	270.06	48.42	2.5
*S2	0.0833333	1.937	0.710	-0.264	0.71	21.22	19.96	250.56	24.31	7.5
ETA2	0.0850736	0.613	0.525	-0.229	0.52	46.55	73.17	265.10	71.89	1.4
MO3	0.1192421	0.247	0.211	-0.030	0.20	55.49	63.83	308.93	60.05	1.4
M3	0.1207671	0.207	0.205	0.021	0.22	112.60	97.84	276.78	80.45	1
MK3	0.1222921	0.232	0.217	0.067	0.23	33.35	70.87	326.71	66.62	1.1
SK3	0.1251141	0.102	0.202	0.039	0.18	105.22	124.68	196.70	145.83	0.26
MN4	0.1595106	0.182	0.196	-0.005	0.22	48.50	98.22	97.55	96.19	0.87
*M4	0.1610228	0.422	0.257	-0.192	0.21	66.52	45.70	125.98	50.69	2.7
SN4	0.1623326	0.109	0.195	-0.043	0.16	116.24	112.42	90.31	147.78	0.31
MS4	0.1638447	0.172	0.196	0.004	0.18	134.62	87.83	132.93	105.78	0.77
S4	0.1666667	0.058	0.184	0.025	0.18	127.29	116.70	334.76	199.21	0.098
2MK5	0.2028035	0.065	0.118	-0.054	0.11	83.56	148.14	189.00	168.42	0.3
2SK5	0.2084474	0.120	0.127	-0.041	0.14	10.87	71.89	195.74	88.03	0.9
*2MN6	0.2400221	0.408	0.139	-0.022	0.16	16.75	24.67	351.20	22.12	8.7
*M6	0.2415342	0.534	0.151	0.222	0.16	29.49	21.21	8.92	22.85	13
*2MS6	0.2443561	0.224	0.142	0.006	0.13	51.97	44.10	72.01	39.37	2.5
2SM6	0.2471781	0.156	0.132	-0.035	0.15	35.09	68.07	79.02	58.19	1.4
3MK7	0.2833149	0.126	0.106	-0.028	0.10	136.06	57.41	165.77	53.10	1.4
M8	0.3220456	0.083	0.067	-0.011	0.06	50.36	63.00	327.52	60.02	1.5

total var= 184.4607 pred var= 95.2656  
percent total var predicted/var original= 51.6 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.1 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= -0.759, x trend= 0

var(x)= 141.1055 var(xp)= 112.6034 var(xres)= 28.5493  
percent var predicted/var original= 79.8 %

y0= 1.54, x trend= 0

var(y)= 76.2207 var(yp)= 5.6148 var(yres)= 70.556  
percent var predicted/var original= 7.4 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	5.857	4.277	-0.489	1.43	103.39	14.24	62.64	41.61	1.9
MSF	0.0028219	3.225	3.131	1.207	1.87	63.18	35.64	10.90	80.66	1.1
ALP1	0.0343966	0.636	0.466	-0.131	0.51	92.64	69.12	79.50	61.80	1.9
2Q1	0.0357064	0.308	0.398	-0.214	0.41	100.99	122.91	233.18	124.02	0.6
Q1	0.0372185	0.492	0.483	-0.285	0.41	172.29	96.30	88.82	118.91	1
*O1	0.0387307	1.169	0.623	-0.226	0.46	7.40	29.25	269.63	31.17	3.5
NO1	0.0402686	0.096	0.293	-0.024	0.22	73.27	143.10	164.49	187.88	0.11
*K1	0.0417807	1.461	0.510	-0.389	0.62	52.04	24.16	335.70	25.00	8.2
J1	0.0432929	0.232	0.405	-0.122	0.41	172.61	115.04	313.29	133.31	0.33
OO1	0.0448308	0.244	0.344	-0.110	0.32	164.74	108.35	267.57	112.97	0.5
UPS1	0.0463430	0.368	0.403	-0.119	0.37	5.80	68.71	208.29	85.37	0.83
EPS2	0.0761773	0.430	0.582	-0.094	0.55	66.07	110.85	301.80	132.60	0.55
*MU2	0.0776895	1.391	0.700	-0.589	0.82	45.15	42.08	53.07	48.53	4
*N2	0.0789992	2.498	0.843	-0.660	0.80	6.07	18.08	177.03	20.02	8.8
*M2	0.0805114	14.788	0.769	-0.557	0.80	9.79	3.45	204.48	3.37	3.7e+002
*L2	0.0820236	1.609	0.880	-0.060	1.13	23.09	44.99	224.02	49.53	3.3
*S2	0.0833333	2.211	0.760	-0.262	0.73	17.98	22.99	253.57	19.23	8.5
ETA2	0.0850736	0.642	0.587	-0.529	0.52	26.24	115.88	261.68	116.29	1.2
MO3	0.1192421	0.279	0.310	-0.016	0.33	50.01	79.46	293.20	84.51	0.81
M3	0.1207671	0.185	0.290	0.024	0.32	30.61	118.76	216.48	131.06	0.41
MK3	0.1222921	0.371	0.343	-0.049	0.33	164.49	70.46	113.10	79.46	1.2
SK3	0.1251141	0.239	0.296	0.006	0.28	95.04	84.16	182.98	100.62	0.65
MN4	0.1595106	0.204	0.366	0.004	0.24	74.29	64.55	45.80	124.84	0.31
*M4	0.1610228	0.743	0.442	-0.343	0.30	61.26	39.51	85.19	45.28	2.8
SN4	0.1623326	0.285	0.311	-0.017	0.25	55.88	60.21	49.27	93.97	0.84
MS4	0.1638447	0.260	0.267	-0.089	0.35	142.75	83.24	75.24	92.75	0.94
S4	0.1666667	0.197	0.291	-0.025	0.28	36.61	95.13	213.65	115.55	0.46
2MK5	0.2028035	0.154	0.169	-0.054	0.19	71.03	105.72	154.30	95.09	0.83
2SK5	0.2084474	0.209	0.202	-0.011	0.18	157.58	56.66	29.65	66.57	1.1
*2MN6	0.2400221	0.456	0.290	-0.091	0.25	32.30	40.56	4.37	42.12	2.5
*M6	0.2415342	0.702	0.247	0.143	0.27	32.21	21.92	12.18	24.45	8.1
*2MS6	0.2443561	0.351	0.246	0.121	0.23	9.76	54.99	81.73	56.44	2
2SM6	0.2471781	0.118	0.202	0.038	0.19	156.06	101.35	264.26	113.41	0.34
3MK7	0.2833149	0.149	0.126	0.028	0.14	107.00	66.01	144.69	74.93	1.4
M8	0.3220456	0.212	0.158	-0.104	0.13	8.06	68.27	242.22	59.21	1.8

total var= 217.3262 pred var= 118.2181  
percent total var predicted/var original= 54.4 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.7 m

Mooring Number: 6971

File Name: 6971adc-alh.nc

nobs = 5015, ngood = 5004, 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= 0.21, x trend= 0

var(x)= 95.8605 var(xp)= 78.0777 var(xres)= 17.6216  
percent var predicted/var original= 81.4 %

y0= -0.424, x trend= 0

var(y)= 34.7552 var(yp)= 6.1844 var(yres)= 28.692  
percent var predicted/var original= 17.8 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*SSA	0.0002282	1.607	1.119	0.017	0.85	111.04	26.43	128.79	46.70	2.1
M5M	0.0013098	1.646	1.206	-0.185	0.85	110.55	29.53	81.65	53.32	1.9
MM	0.0015122	1.162	1.200	-0.327	0.63	81.69	37.96	123.44	68.33	0.94
MSF	0.0028219	1.021	0.958	-0.199	0.68	113.63	45.27	218.27	87.01	1.1
MF	0.0030501	0.699	0.917	-0.172	0.83	131.31	67.90	204.01	100.86	0.58
ALP1	0.0343966	0.119	0.227	0.025	0.22	46.59	105.99	22.21	130.38	0.27
2Q1	0.0357064	0.289	0.242	-0.122	0.26	156.51	90.27	28.03	86.20	1.4
SIG1	0.0359087	0.162	0.252	0.036	0.23	118.47	87.22	327.30	117.50	0.42
Q1	0.0372185	0.178	0.232	-0.127	0.24	162.00	129.69	94.07	175.01	0.59
RHO1	0.0374209	0.098	0.250	0.007	0.21	16.09	134.33	342.49	160.20	0.15
*O1	0.0387307	0.480	0.277	-0.032	0.34	7.95	45.50	260.57	40.72	3
TAU1	0.0389588	0.167	0.269	0.038	0.25	78.22	96.80	175.04	143.80	0.39
BET1	0.0400404	0.199	0.229	0.093	0.23	42.69	92.62	19.34	104.49	0.76
NO1	0.0402686	0.251	0.213	-0.159	0.17	145.16	90.34	234.33	95.23	1.4
CHI1	0.0404710	0.397	0.300	0.014	0.24	53.36	42.77	314.91	45.26	1.7
P1	0.0415526	0.259	0.274	-0.229	0.26	163.61	121.73	251.72	122.35	0.89
*K1	0.0417807	1.110	0.295	-0.185	0.37	10.92	18.96	302.30	14.89	14
*PHI1	0.0420089	0.441	0.279	-0.353	0.31	54.39	86.98	287.53	106.80	2.5
THE1	0.0430905	0.298	0.273	-0.200	0.23	139.40	85.30	259.88	92.26	1.2
*J1	0.0432929	0.396	0.279	-0.261	0.26	156.14	88.44	223.13	83.46	2
SO1	0.0446027	0.159	0.239	-0.086	0.22	152.46	111.84	220.71	138.24	0.44
OO1	0.0448308	0.046	0.163	-0.007	0.15	63.42	120.40	269.52	182.18	0.08
UPS1	0.0463430	0.131	0.176	-0.035	0.16	137.18	85.16	65.57	116.03	0.56
QQ2	0.0759749	0.198	0.248	0.056	0.22	119.27	77.43	307.68	89.11	0.64
EPS2	0.0761773	0.196	0.221	0.162	0.26	149.42	117.67	238.27	114.94	0.79
*2N2	0.0774871	0.332	0.234	0.037	0.27	176.00	82.30	330.41	77.98	2
*MU2	0.0776895	0.305	0.212	-0.022	0.25	10.12	70.61	128.17	54.67	2.1
*N2	0.0789992	2.938	0.277	-0.198	0.33	11.13	5.73	171.66	4.94	1.1e+002
*NU2	0.0792016	0.587	0.279	-0.002	0.30	179.63	46.51	7.88	43.32	4.4
*M2	0.0805114	12.278	0.289	-0.875	0.33	13.05	1.44	204.10	1.27	1.8e+003
*MKS2	0.0807396	0.393	0.208	0.152	0.22	137.48	46.77	254.39	50.76	3.6
LDA2	0.0818212	0.280	0.222	-0.020	0.26	163.79	67.04	114.17	61.54	1.6
*L2	0.0820236	0.867	0.360	0.011	0.38	161.79	22.71	59.19	23.88	5.8
*S2	0.0833333	2.168	0.235	0.049	0.31	18.58	8.17	238.03	7.37	85
*K2	0.0835615	0.575	0.210	-0.108	0.26	6.69	28.52	244.72	23.43	7.5
MSN2	0.0848455	0.241	0.253	0.057	0.23	64.97	77.91	271.91	93.79	0.91
ETA2	0.0850736	0.170	0.185	0.049	0.18	104.12	71.73	321.41	91.59	0.85
MO3	0.1192421	0.173	0.155	0.024	0.14	23.40	62.10	306.90	57.36	1.2
M3	0.1207671	0.150	0.140	-0.051	0.15	47.15	76.00	185.38	79.57	1.1
SO3	0.1220640	0.061	0.125	-0.000	0.11	135.78	111.31	263.69	149.56	0.24
MK3	0.1222921	0.100	0.117	-0.062	0.12	23.97	104.71	353.97	135.31	0.74
SK3	0.1251141	0.119	0.130	-0.064	0.14	44.46	100.94	37.81	107.68	0.84
*MN4	0.1595106	0.307	0.203	0.028	0.17	41.85	34.30	71.50	37.42	2.3
*M4	0.1610228	0.439	0.179	-0.143	0.17	31.26	26.69	85.63	29.99	6
SN4	0.1623326	0.114	0.157	0.022	0.13	74.14	82.30	50.86	102.65	0.53
*MS4	0.1638447	0.230	0.160	-0.046	0.17	25.74	56.04	162.92	48.02	2.1
MK4	0.1640729	0.158	0.113	-0.054	0.13	4.62	73.52	61.11	75.65	1.9
S4	0.1666667	0.128	0.134	-0.012	0.12	36.92	78.82	221.74	91.16	0.92
SK4	0.1668948	0.101	0.138	-0.013	0.12	101.74	85.05	138.77	88.84	0.53



2MK5	0.2028035	0.045	0.065	-0.018	0.08	139.91	120.70	249.13	128.19	0.48
2SK5	0.2084474	0.067	0.082	-0.014	0.08	31.05	85.82	83.33	88.09	0.66
*2MN6	0.2400221	0.331	0.128	0.061	0.13	39.60	23.21	319.72	22.18	6.7
*M6	0.2415342	0.490	0.130	0.155	0.12	39.78	18.86	342.89	17.51	14
*2MS6	0.2443561	0.190	0.108	-0.033	0.11	48.09	37.14	47.58	39.64	3.1
2MK6	0.2445843	0.120	0.090	-0.017	0.10	65.60	55.05	72.53	56.32	1.8
2SM6	0.2471781	0.106	0.104	0.038	0.08	85.39	77.65	121.50	82.66	1
MSK6	0.2474062	0.039	0.077	-0.037	0.09	21.97	115.20	99.24	157.79	0.26
3MK7	0.2833149	0.039	0.062	-0.023	0.06	174.26	101.17	105.18	132.12	0.38
*M8	0.3220456	0.098	0.059	0.005	0.06	7.23	39.13	335.58	45.18	2.7

total var= 130.6157    pred var= 84.2621  
percent total var predicted/var original= 64.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.5 m

Mooring Number: 7081

File Name: 7081adc-alh.nc

nobs = 4270, ngood = 4266, 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= -1.41, x trend= 0

var(x)= 121.1399 var(xp)= 91.8366 var(xres)= 29.3384  
percent var predicted/var original= 75.8 %

y0= 0.0185, x trend= 0

var(y)= 58.4232 var(yp)= 12.3257 var(yres)= 46.0837  
percent var predicted/var original= 21.1 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.637	1.648	0.190	1.63	37.44	79.96	101.83	72.93	0.99
MSF	0.0028219	0.809	1.463	-0.609	1.50	100.05	94.72	246.60	172.25	0.31
ALP1	0.0343966	0.101	0.250	0.043	0.24	20.75	120.44	317.60	200.87	0.16
2Q1	0.0357064	0.450	0.330	-0.214	0.33	149.75	65.27	29.49	66.42	1.9
Q1	0.0372185	0.199	0.256	0.025	0.25	137.50	103.68	82.02	107.62	0.61
*O1	0.0387307	0.745	0.336	0.162	0.36	19.68	34.02	261.70	30.28	4.9
NO1	0.0402686	0.244	0.247	-0.192	0.23	35.04	117.53	340.58	125.60	0.97
*K1	0.0417807	1.298	0.352	-0.305	0.42	24.28	19.84	306.15	16.78	14
J1	0.0432929	0.275	0.256	-0.127	0.33	174.16	106.61	169.36	125.59	1.2
OO1	0.0448308	0.165	0.211	-0.094	0.18	81.47	94.87	321.86	123.79	0.62
UPS1	0.0463430	0.324	0.272	-0.091	0.23	62.78	53.25	257.18	57.40	1.4
EPS2	0.0761773	0.246	0.418	-0.004	0.39	68.42	114.26	3.52	143.24	0.35
MU2	0.0776895	0.262	0.471	-0.027	0.38	13.32	108.23	145.45	126.92	0.31
*N2	0.0789992	3.143	0.532	0.298	0.57	18.65	9.51	180.71	11.14	35
*M2	0.0805114	14.165	0.531	-0.602	0.54	19.69	2.27	203.93	2.25	7.1e+002
*L2	0.0820236	0.972	0.534	-0.446	0.54	12.55	46.51	210.86	51.20	3.3
*S2	0.0833333	1.905	0.606	0.043	0.45	16.55	15.89	239.06	16.90	9.9
ETA2	0.0850736	0.154	0.346	0.102	0.32	59.33	147.03	245.38	161.79	0.2
MO3	0.1192421	0.194	0.193	-0.013	0.19	26.40	75.32	304.52	69.46	1
M3	0.1207671	0.083	0.178	0.035	0.16	84.45	123.04	183.48	161.41	0.22
*MK3	0.1222921	0.395	0.180	-0.191	0.21	20.23	46.93	328.60	44.18	4.8
SK3	0.1251141	0.108	0.175	-0.079	0.16	83.65	107.43	46.41	137.84	0.38
*MN4	0.1595106	0.499	0.277	-0.271	0.22	98.03	41.01	32.11	50.28	3.3
*M4	0.1610228	0.566	0.245	0.024	0.23	52.62	26.40	83.82	25.94	5.4
SN4	0.1623326	0.249	0.237	-0.003	0.23	143.53	63.63	22.28	62.71	1.1
MS4	0.1638447	0.258	0.230	-0.060	0.20	68.98	60.60	130.91	68.78	1.3
S4	0.1666667	0.159	0.203	-0.098	0.19	96.12	103.84	135.78	121.60	0.62
2MK5	0.2028035	0.110	0.114	-0.026	0.12	87.63	77.58	204.38	90.03	0.93
*2SK5	0.2084474	0.170	0.104	0.064	0.13	179.02	61.76	111.06	54.58	2.7
*2MN6	0.2400221	0.416	0.121	0.009	0.13	44.53	21.45	323.62	18.49	12
*M6	0.2415342	0.604	0.141	0.032	0.12	47.80	11.71	5.98	13.48	18
*2MS6	0.2443561	0.346	0.125	0.013	0.14	24.19	22.83	61.18	18.30	7.7
2SM6	0.2471781	0.108	0.113	-0.029	0.11	51.85	69.40	66.68	77.64	0.91
3MK7	0.2833149	0.100	0.090	-0.055	0.08	124.84	81.76	148.72	83.69	1.3
M8	0.3220456	0.075	0.062	-0.047	0.06	30.79	87.60	211.97	92.37	1.5

total var= 179.5632 pred var= 104.1623  
percent total var predicted/var original= 58.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.5 m

Mooring Number: 7171

File Name: 7171Eadc-alh.nc

nobs = 223, ngood = 220, 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= -1.01, x trend= 0

var(x)= 75.7052 var(xp)= 53.307 var(xres)= 22.8168  
percent var predicted/var original= 70.4 %

y0= 5.08, x trend= 0

var(y)= 54.052 var(yp)= 0.52171 var(yres)= 53.4868  
percent var predicted/var original= 1.0 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
K1	0.0417807	2.883	2.291	-1.831	1.48	88.39	64.78	130.33	81.76	1.6
*M2	0.0805114	10.593	3.145	0.622	1.62	2.52	8.61	185.52	18.08	11
M3	0.1207671	0.121	1.089	-0.010	0.92	116.80	132.73	251.23	244.11	0.012
M4	0.1610228	0.392	0.611	-0.032	0.62	43.51	101.53	56.23	131.02	0.41
2MK5	0.2028035	0.275	0.299	-0.124	0.23	3.61	63.35	63.95	119.46	0.84
*2SK5	0.2084474	0.537	0.267	-0.051	0.38	81.00	53.03	84.55	35.54	4
*M6	0.2415342	0.862	0.489	0.325	0.70	17.60	89.66	315.62	42.74	3.1
3MK7	0.2833149	0.150	0.413	-0.054	0.36	37.03	105.34	208.90	181.68	0.13
M8	0.3220456	0.358	0.347	-0.069	0.28	122.37	66.16	115.17	73.49	1.1

total var= 129.7572 pred var= 53.8287  
percent total var predicted/var original= 41.5 %

Tidal Analysis of Current at LT-A

ADCP Observations, 15.9 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= -0.258, x trend= 0

var(x)= 102.939 var(xp)= 80.6381 var(xres)= 22.3011  
percent var predicted/var original= 78.3 %

y0= 0.186, x trend= 0

var(y)= 27.5453 var(yp)= 1.0396 var(yres)= 26.524  
percent var predicted/var original= 3.8 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.637	2.058	-0.063	2.02	127.26	94.90	344.10	108.37	0.63
MSF	0.0028219	2.279	2.343	0.031	1.90	106.40	65.54	120.40	82.06	0.95
ALP1	0.0343966	0.242	0.398	-0.127	0.41	117.93	115.72	21.47	147.11	0.37
2Q1	0.0357064	0.312	0.394	-0.054	0.44	103.04	101.85	71.50	103.00	0.63
Q1	0.0372185	0.313	0.430	-0.087	0.41	168.60	98.28	343.48	112.19	0.53
O1	0.0387307	0.561	0.450	0.074	0.44	16.70	55.88	276.67	60.73	1.6
NO1	0.0402686	0.393	0.562	-0.225	0.52	30.13	108.74	168.62	127.07	0.49
*K1	0.0417807	1.634	0.545	-0.779	0.47	167.83	33.58	111.43	30.58	9
J1	0.0432929	0.384	0.415	-0.081	0.44	67.48	96.47	328.61	91.58	0.86
OO1	0.0448308	0.180	0.298	-0.101	0.29	29.53	125.65	303.79	150.20	0.36
UPS1	0.0463430	0.328	0.324	-0.155	0.36	10.09	76.47	72.25	99.67	1
EPS2	0.0761773	0.290	0.550	0.017	0.60	178.35	157.07	317.99	148.85	0.28
MU2	0.0776895	0.517	0.520	0.137	0.58	145.49	98.64	182.52	88.35	0.99
*N2	0.0789992	2.336	0.701	-0.010	0.68	10.00	20.51	178.45	16.16	11
*M2	0.0805114	12.312	0.623	-0.715	0.73	2.65	3.35	204.43	3.20	3.9e+002
*L2	0.0820236	0.613	0.428	-0.270	0.48	6.20	77.20	259.35	63.92	2.1
*S2	0.0833333	2.461	0.616	-0.153	0.60	1.93	18.02	238.71	15.81	16
ETA2	0.0850736	0.417	0.494	-0.056	0.49	62.36	78.16	213.61	84.66	0.71
MO3	0.1192421	0.220	0.198	-0.183	0.18	28.93	99.41	289.26	118.99	1.2
M3	0.1207671	0.060	0.184	0.020	0.17	107.63	130.86	358.13	195.23	0.11
MK3	0.1222921	0.219	0.224	-0.011	0.21	52.57	79.09	336.10	73.56	0.96
SK3	0.1251141	0.258	0.203	0.028	0.19	46.70	57.64	125.38	62.41	1.6
MN4	0.1595106	0.322	0.247	-0.032	0.27	172.81	74.76	264.67	82.88	1.7
*M4	0.1610228	0.519	0.274	0.016	0.27	23.51	31.91	89.40	33.90	3.6
SN4	0.1623326	0.166	0.207	-0.116	0.21	83.97	114.07	346.55	137.95	0.64
MS4	0.1638447	0.137	0.225	-0.026	0.20	20.98	118.28	184.58	111.10	0.37
S4	0.1666667	0.183	0.207	-0.041	0.19	63.90	84.23	269.63	105.55	0.78
2MK5	0.2028035	0.084	0.135	-0.044	0.14	53.55	102.79	143.76	127.94	0.38
2SK5	0.2084474	0.147	0.130	-0.026	0.15	175.71	86.61	355.29	73.91	1.3
*2MN6	0.2400221	0.288	0.201	0.036	0.19	39.99	39.49	330.33	41.96	2
*M6	0.2415342	0.538	0.197	0.114	0.18	21.95	23.58	355.45	22.20	7.5
*2MS6	0.2443561	0.267	0.182	0.105	0.19	23.22	53.74	54.26	52.02	2.2
2SM6	0.2471781	0.125	0.139	-0.035	0.15	7.43	86.44	65.91	104.74	0.8
3MK7	0.2833149	0.070	0.090	-0.002	0.09	7.89	90.00	84.80	95.56	0.61
M8	0.3220456	0.108	0.091	-0.019	0.09	45.59	64.31	282.50	67.35	1.4

total var= 130.4842 pred var= 81.6777  
percent total var predicted/var original= 62.6 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.1 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= -1.12, x trend= 0

var(x)= 126.2107 var(xp)= 95.4519 var(xres)= 31.0176  
percent var predicted/var original= 75.6 %

y0= 0.373, x trend= 0

var(y)= 54.5691 var(yp)= 3.4084 var(yres)= 51.1311  
percent var predicted/var original= 6.2 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.194	4.215	0.197	1.87	85.55	42.27	331.64	138.03	0.27
MSF	0.0028219	2.378	2.911	0.008	3.10	151.25	78.04	3.50	102.19	0.67
ALP1	0.0343966	0.330	0.262	-0.051	0.29	104.65	65.85	294.58	59.32	1.6
*2Q1	0.0357064	0.332	0.230	-0.166	0.28	151.23	74.29	145.73	81.79	2.1
Q1	0.0372185	0.283	0.292	-0.034	0.25	22.29	46.58	251.76	76.77	0.94
*O1	0.0387307	0.535	0.275	0.154	0.29	179.72	36.50	83.69	44.45	3.8
*NO1	0.0402686	0.585	0.287	-0.158	0.38	99.20	48.19	157.59	40.53	4.2
*K1	0.0417807	1.229	0.375	-0.226	0.27	16.32	13.99	325.39	18.00	11
J1	0.0432929	0.391	0.292	-0.240	0.27	21.19	71.36	271.17	70.85	1.8
OO1	0.0448308	0.230	0.197	-0.062	0.24	90.63	84.08	358.94	64.87	1.4
*UPS1	0.0463430	0.340	0.193	-0.102	0.20	42.83	42.87	286.73	43.31	3.1
EPS2	0.0761773	0.537	0.661	-0.007	0.72	19.79	79.07	213.60	98.79	0.66
MU2	0.0776895	0.777	0.700	-0.134	0.71	19.01	64.90	218.69	63.08	1.2
*N2	0.0789992	3.425	0.900	-0.065	0.87	8.59	13.13	174.81	14.97	14
*M2	0.0805114	13.838	0.843	-0.179	0.77	9.23	3.24	211.14	3.88	2.7e+002
*L2	0.0820236	1.120	0.542	-0.275	0.57	21.56	37.01	234.72	37.34	4.3
*S2	0.0833333	1.399	0.674	0.397	0.74	3.62	34.96	250.74	37.80	4.3
ETA2	0.0850736	0.448	0.569	-0.325	0.52	58.49	123.44	310.29	127.66	0.62
MO3	0.1192421	0.213	0.210	0.052	0.19	60.54	77.33	281.25	87.89	1
M3	0.1207671	0.161	0.237	-0.047	0.21	34.47	93.41	126.76	109.91	0.46
*MK3	0.1222921	0.330	0.207	-0.236	0.22	169.62	82.79	153.83	89.56	2.5
SK3	0.1251141	0.201	0.213	0.025	0.18	6.04	70.46	53.30	82.70	0.89
*MN4	0.1595106	0.453	0.283	-0.403	0.29	87.90	90.72	53.45	103.49	2.6
*M4	0.1610228	0.691	0.316	-0.348	0.28	64.68	42.79	132.15	48.02	4.8
SN4	0.1623326	0.243	0.255	0.086	0.27	160.32	96.39	110.31	115.26	0.91
MS4	0.1638447	0.092	0.233	-0.016	0.21	83.78	109.31	34.81	169.12	0.16
S4	0.1666667	0.121	0.248	-0.024	0.22	73.59	97.13	196.43	154.44	0.24
2MK5	0.2028035	0.132	0.137	-0.028	0.13	35.43	63.95	189.10	92.87	0.93
2SK5	0.2084474	0.093	0.129	0.032	0.12	27.52	79.64	278.17	125.46	0.52
*2MN6	0.2400221	0.394	0.220	0.146	0.18	11.84	35.93	311.40	40.25	3.2
*M6	0.2415342	0.643	0.225	0.226	0.21	27.51	23.37	28.28	22.93	8.2
2MS6	0.2443561	0.158	0.203	0.025	0.15	14.96	65.63	66.00	78.81	0.6
2SM6	0.2471781	0.084	0.156	-0.024	0.13	123.95	110.28	245.66	128.97	0.29
3MK7	0.2833149	0.108	0.103	0.026	0.09	6.44	67.91	158.85	73.68	1.1
M8	0.3220456	0.097	0.089	-0.043	0.08	17.49	75.25	338.73	89.20	1.2

total var= 180.7798 pred var= 98.8603  
percent total var predicted/var original= 54.7 %

Tidal Analysis of Current at LT-A

ADCP Observations, 15.2 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= -0.456, x trend= 0

var(x)= 91.9914 var(xp)= 76.6855 var(xres)= 15.8226  
percent var predicted/var original= 83.4 %

y0= -0.5, x trend= 0

var(y)= 38.4299 var(yp)= 13.288 var(yres)= 25.9124  
percent var predicted/var original= 34.6 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
*MM	0.0015122	5.127	3.073	0.218	1.26	107.68	15.31	256.26	31.61	2.8
MSF	0.0028219	2.819	2.682	0.257	1.06	76.11	19.89	318.26	57.55	1.1
ALP1	0.0343966	0.453	0.563	-0.323	0.61	67.65	109.60	249.80	133.61	0.65
2Q1	0.0357064	0.536	0.600	-0.185	0.65	52.50	87.25	346.49	108.35	0.8
Q1	0.0372185	0.494	0.569	-0.341	0.53	68.62	99.45	154.97	129.30	0.75
O1	0.0387307	0.744	0.530	0.102	0.58	14.85	70.53	290.91	67.91	2
NO1	0.0402686	0.406	0.664	-0.119	0.70	8.25	128.79	19.09	152.89	0.37
K1	0.0417807	0.793	0.689	0.213	0.56	111.45	68.13	29.18	69.98	1.3
J1	0.0432929	0.384	0.594	-0.219	0.50	109.76	99.82	218.07	129.03	0.42
OO1	0.0448308	0.304	0.407	-0.177	0.41	63.76	109.68	318.20	139.33	0.56
UPS1	0.0463430	0.422	0.454	-0.155	0.41	123.06	76.99	202.68	84.65	0.86
EPS2	0.0761773	0.555	0.544	-0.142	0.64	21.22	110.42	57.67	78.24	1
MU2	0.0776895	0.223	0.570	-0.012	0.44	138.50	88.91	160.99	156.81	0.15
*N2	0.0789992	2.578	0.572	-0.039	0.87	13.82	16.31	167.89	12.05	20
*M2	0.0805114	12.073	0.470	-0.915	0.85	2.11	3.60	203.80	2.37	6.6e+002
L2	0.0820236	0.649	0.519	-0.080	0.40	76.09	27.09	237.82	55.98	1.6
*S2	0.0833333	2.651	0.484	-0.306	0.78	10.30	19.62	225.80	10.38	30
ETA2	0.0850736	0.344	0.405	-0.116	0.42	29.19	96.66	147.92	95.07	0.72
MO3	0.1192421	0.140	0.202	0.101	0.20	118.57	112.87	69.42	125.74	0.48
M3	0.1207671	0.170	0.244	-0.116	0.21	4.72	118.52	153.03	117.01	0.48
MK3	0.1222921	0.205	0.225	0.045	0.21	132.04	100.29	352.75	100.90	0.82
SK3	0.1251141	0.219	0.231	0.011	0.23	142.03	75.41	349.95	81.76	0.9
*MN4	0.1595106	0.554	0.250	-0.161	0.21	35.54	29.24	76.06	36.57	4.9
*M4	0.1610228	0.572	0.254	-0.432	0.23	26.21	69.16	121.77	71.02	5.1
SN4	0.1623326	0.185	0.185	-0.066	0.21	117.43	92.57	276.98	85.39	1
*MS4	0.1638447	0.542	0.279	-0.171	0.24	27.60	33.82	171.33	38.94	3.8
S4	0.1666667	0.254	0.255	-0.085	0.21	34.63	64.99	237.96	73.28	0.99
2MK5	0.2028035	0.025	0.179	-0.000	0.16	166.76	118.62	254.29	234.76	0.019
2SK5	0.2084474	0.143	0.179	-0.123	0.18	46.81	119.93	45.45	137.65	0.64
*2MN6	0.2400221	0.247	0.160	0.158	0.19	22.61	83.69	2.21	85.22	2.4
*M6	0.2415342	0.538	0.221	0.088	0.26	27.61	27.27	7.38	26.70	5.9
*2MS6	0.2443561	0.290	0.200	0.002	0.20	85.55	45.50	50.42	49.50	2.1
2SM6	0.2471781	0.159	0.173	0.009	0.18	133.39	74.43	155.38	75.20	0.85
3MK7	0.2833149	0.121	0.148	0.032	0.12	146.21	88.13	36.44	94.89	0.67
M8	0.3220456	0.140	0.118	-0.035	0.12	18.69	69.51	283.97	69.11	1.4

total var= 130.4213 pred var= 89.9735  
percent total var predicted/var original= 69.0 %

Tidal Analysis of Current at LT-A

ADCP Observations, 14.8 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= 0.351, x trend= 0

var(x)= 115.8622 var(xp)= 80.5723 var(xres)= 35.4402  
percent var predicted/var original= 69.5 %

y0= -0.635, x trend= 0

var(y)= 56.7193 var(yp)= 7.5878 var(yres)= 49.1349  
percent var predicted/var original= 13.4 %

ellipse parameters with 95% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	2.809	2.762	-0.139	2.26	111.14	56.09	216.89	68.54	1
MSF	0.0028219	1.498	2.415	0.524	1.97	110.75	71.55	299.32	125.66	0.38
ALP1	0.0343966	0.297	0.664	0.181	0.66	85.10	121.83	290.52	160.96	0.2
2Q1	0.0357064	0.527	0.773	-0.165	0.68	94.78	105.61	313.74	111.23	0.46
Q1	0.0372185	0.394	0.783	-0.237	0.72	20.66	120.87	259.33	162.58	0.25
O1	0.0387307	0.832	0.803	-0.480	0.81	61.39	103.97	241.84	102.55	1.1
NO1	0.0402686	0.434	0.837	-0.288	0.84	11.84	118.28	208.20	157.04	0.27
*K1	0.0417807	1.696	0.968	-0.741	0.83	15.66	50.42	300.51	45.80	3.1
J1	0.0432929	0.766	0.732	-0.516	0.89	28.84	104.19	140.09	113.27	1.1
OO1	0.0448308	0.732	0.546	-0.328	0.59	32.81	73.02	206.97	73.85	1.8
UPS1	0.0463430	0.202	0.448	-0.105	0.43	35.27	119.19	60.01	164.82	0.2
EPS2	0.0761773	0.270	0.557	0.047	0.53	39.92	117.68	318.46	155.04	0.23
MU2	0.0776895	0.284	0.583	0.035	0.50	51.29	101.50	36.32	129.54	0.24
*N2	0.0789992	2.379	0.766	0.160	0.80	10.97	19.33	175.71	17.46	9.6
*M2	0.0805114	13.029	0.711	-0.387	0.82	16.05	3.91	207.08	3.18	3.4e+002
L2	0.0820236	0.314	0.436	0.143	0.42	62.46	94.10	13.39	128.43	0.52
*S2	0.0833333	2.885	0.657	-0.622	0.73	24.80	16.96	239.33	15.58	19
ETA2	0.0850736	0.552	0.615	-0.021	0.50	98.34	63.70	340.53	63.80	0.81
MO3	0.1192421	0.100	0.256	-0.006	0.20	10.23	103.58	166.19	178.29	0.15
M3	0.1207671	0.251	0.301	0.041	0.23	13.18	84.55	133.87	102.05	0.69
MK3	0.1222921	0.197	0.256	-0.004	0.21	46.87	87.64	15.37	106.60	0.59
SK3	0.1251141	0.214	0.217	-0.183	0.25	136.16	118.56	110.11	128.94	0.97
MN4	0.1595106	0.172	0.192	-0.151	0.23	155.45	115.40	2.17	132.48	0.8
*M4	0.1610228	0.498	0.250	-0.140	0.24	30.86	36.67	96.99	33.96	4
SN4	0.1623326	0.077	0.206	0.009	0.16	45.52	133.20	81.33	174.80	0.14
*MS4	0.1638447	0.349	0.227	-0.194	0.21	51.69	60.38	139.61	68.30	2.4
S4	0.1666667	0.197	0.196	-0.061	0.19	30.93	92.52	131.23	74.86	1
2MK5	0.2028035	0.120	0.152	-0.040	0.13	163.18	73.96	129.01	114.88	0.63
*2SK5	0.2084474	0.177	0.112	0.020	0.16	109.31	64.64	25.83	44.88	2.5
2MN6	0.2400221	0.253	0.208	0.067	0.17	51.92	47.98	299.70	48.03	1.5
*M6	0.2415342	0.623	0.180	0.085	0.21	37.78	19.11	9.31	17.71	12
*2MS6	0.2443561	0.396	0.191	0.060	0.18	55.27	27.79	58.15	30.40	4.3
2SM6	0.2471781	0.113	0.146	0.032	0.14	46.62	109.41	111.23	103.67	0.6
3MK7	0.2833149	0.057	0.107	-0.015	0.10	20.84	118.53	318.40	163.15	0.28
M8	0.3220456	0.103	0.086	-0.043	0.09	17.14	84.69	333.30	73.17	1.4

total var= 172.5814 pred var= 88.16  
percent total var predicted/var original= 51.1 %

Tidal Analysis of Current at LT-A

ADCP Observations, 15.3 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= -0.211, x trend= 0

var(x)= 146.5107 var(xp)= 109.2452 var(xres)= 37.8608  
percent var predicted/var original= 74.6 %

y0= -0.647, x trend= 0

var(y)= 84.8554 var(yp)= 7.1865 var(yres)= 77.6724  
percent var predicted/var original= 8.5 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	4.175	3.937	-0.443	2.04	89.02	27.16	351.31	60.96	1.1
MSF	0.0028219	2.287	2.664	1.215	2.78	25.57	112.33	63.44	104.53	0.74
ALP1	0.0343966	0.326	0.428	-0.154	0.38	1.31	108.84	279.33	130.15	0.58
2Q1	0.0357064	0.147	0.384	0.132	0.36	92.10	149.65	340.74	214.04	0.15
Q1	0.0372185	0.400	0.477	-0.079	0.46	53.64	86.78	46.49	87.96	0.7
*O1	0.0387307	0.769	0.497	0.184	0.51	8.85	42.97	267.22	53.78	2.4
NO1	0.0402686	0.336	0.465	-0.073	0.40	36.71	102.20	186.39	117.89	0.52
*K1	0.0417807	1.563	0.593	-0.490	0.55	43.65	26.70	347.44	24.95	6.9
J1	0.0432929	0.503	0.471	-0.319	0.50	153.67	92.47	195.07	107.61	1.1
OO1	0.0448308	0.157	0.284	0.038	0.27	55.50	117.56	151.26	136.00	0.31
UPS1	0.0463430	0.288	0.306	-0.151	0.35	95.66	105.25	118.21	89.67	0.89
EPS2	0.0761773	0.482	0.597	-0.213	0.57	86.07	115.00	1.63	106.19	0.65
MU2	0.0776895	0.505	0.633	0.005	0.49	172.96	83.47	12.82	93.83	0.63
*N2	0.0789992	3.082	0.938	0.116	0.72	15.03	14.46	175.19	15.69	11
*M2	0.0805114	14.994	0.916	-0.397	0.61	13.05	2.85	203.09	3.53	2.7e+002
L2	0.0820236	0.880	0.704	-0.099	0.56	5.91	43.53	234.29	53.78	1.6
*S2	0.0833333	2.133	0.772	-0.238	0.66	16.85	19.08	245.60	24.68	7.6
ETA2	0.0850736	0.441	0.511	-0.178	0.47	21.03	72.25	274.46	91.32	0.75
MO3	0.1192421	0.093	0.178	-0.011	0.16	23.71	99.23	296.22	143.78	0.27
M3	0.1207671	0.159	0.268	0.053	0.21	32.68	90.11	229.08	126.33	0.35
MK3	0.1222921	0.213	0.242	-0.067	0.23	44.98	89.67	239.70	84.55	0.78
SK3	0.1251141	0.122	0.223	-0.009	0.17	1.64	88.36	97.08	142.67	0.3
*MN4	0.1595106	0.496	0.313	-0.117	0.36	165.49	49.87	304.66	50.13	2.5
*M4	0.1610228	0.666	0.340	-0.124	0.31	65.30	32.55	94.27	33.65	3.8
SN4	0.1623326	0.249	0.240	0.012	0.25	30.24	86.69	278.37	77.94	1.1
MS4	0.1638447	0.209	0.225	-0.042	0.26	173.63	107.94	17.05	97.08	0.86
S4	0.1666667	0.235	0.248	-0.105	0.23	100.37	94.77	224.61	114.20	0.9
2MK5	0.2028035	0.124	0.153	-0.030	0.12	154.54	81.37	94.00	101.44	0.66
2SK5	0.2084474	0.044	0.109	0.023	0.12	32.49	128.69	348.39	191.48	0.17
*2MN6	0.2400221	0.428	0.169	0.059	0.18	58.33	23.57	345.52	27.03	6.4
*M6	0.2415342	0.603	0.212	-0.037	0.17	35.76	17.49	25.46	16.85	8.1
2MS6	0.2443561	0.215	0.170	-0.069	0.16	48.94	63.23	89.89	55.83	1.6
2SM6	0.2471781	0.014	0.111	0.006	0.10	173.64	135.07	191.11	209.28	0.015
3MK7	0.2833149	0.106	0.098	0.026	0.09	144.97	76.56	38.21	79.99	1.2
M8	0.3220456	0.136	0.107	0.006	0.11	8.97	45.69	256.05	50.34	1.6

total var= 231.3661 pred var= 116.4317  
percent total var predicted/var original= 50.3 %



Tidal Analysis of Current at LT-A

ADCP Observations, 14.3 m

Mooring Number: 8051

File Name: 8051adc-alh.nc

nobs = 3188, ngood = 3183, 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= -1.21, x trend= 0

var(x)= 96.2349 var(xp)= 73.1984 var(xres)= 22.751  
percent var predicted/var original= 76.1 %

y0= 0.267, x trend= 0

var(y)= 42.4744 var(yp)= 9.0536 var(yres)= 33.4213  
percent var predicted/var original= 21.3 %

ellipse parameters with 95%% CI estimates

tide	freq	major	emaj	minor	emin	inc	einc	pha	epha	snr
MM	0.0015122	1.210	1.501	0.141	1.43	5.27	110.57	20.58	100.05	0.65
*MSF	0.0028219	1.870	1.252	0.684	1.70	179.00	79.26	336.82	61.25	2.2
ALP1	0.0343966	0.227	0.366	0.027	0.34	74.05	113.39	16.59	126.84	0.39
2Q1	0.0357064	0.639	0.524	-0.135	0.47	112.67	49.93	14.71	50.93	1.5
Q1	0.0372185	0.213	0.372	0.004	0.35	110.69	102.51	206.15	120.63	0.33
O1	0.0387307	0.474	0.468	-0.021	0.40	1.38	71.69	274.36	64.56	1
NO1	0.0402686	0.376	0.315	-0.040	0.36	35.42	70.56	230.09	68.48	1.4
K1	0.0417807	0.600	0.432	-0.501	0.46	34.13	99.79	313.11	116.80	1.9
J1	0.0432929	0.528	0.374	-0.130	0.43	173.89	68.54	108.75	64.67	2
OO1	0.0448308	0.153	0.229	-0.032	0.23	105.82	100.30	149.74	120.26	0.44
UPS1	0.0463430	0.162	0.230	-0.002	0.26	52.82	91.97	68.19	116.25	0.49
EPS2	0.0761773	0.305	0.391	-0.008	0.41	23.56	87.70	27.47	116.69	0.61
MU2	0.0776895	0.243	0.369	-0.016	0.35	67.20	105.26	347.03	125.94	0.43
*N2	0.0789992	2.258	0.434	-0.201	0.45	21.75	13.06	176.57	14.06	27
*M2	0.0805114	12.620	0.481	-1.134	0.51	18.40	2.20	202.31	2.08	6.9e+002
L2	0.0820236	0.459	0.379	-0.263	0.40	60.71	93.04	283.21	93.76	1.5
*S2	0.0833333	2.216	0.519	-0.294	0.44	21.19	11.99	224.04	12.52	18
ETA2	0.0850736	0.265	0.261	0.043	0.32	60.69	80.79	136.08	82.15	1
MO3	0.1192421	0.234	0.222	0.003	0.17	114.08	61.28	169.02	65.24	1.1
M3	0.1207671	0.152	0.209	-0.040	0.20	172.05	133.92	204.14	209.19	0.53
MK3	0.1222921	0.235	0.221	-0.074	0.19	105.60	78.23	250.92	78.07	1.1
SK3	0.1251141	0.148	0.191	0.058	0.19	81.03	97.61	80.18	106.31	0.6
*MN4	0.1595106	0.308	0.188	-0.112	0.21	19.40	53.40	120.70	41.68	2.7
*M4	0.1610228	0.454	0.190	-0.226	0.24	5.12	36.69	128.84	33.22	5.7
SN4	0.1623326	0.130	0.140	-0.041	0.16	127.41	107.09	13.51	111.38	0.86
*MS4	0.1638447	0.267	0.168	0.157	0.17	65.47	67.99	186.34	78.70	2.5
S4	0.1666667	0.261	0.189	-0.082	0.15	52.11	51.44	167.60	58.73	1.9
2MK5	0.2028035	0.052	0.108	-0.038	0.11	9.05	142.57	22.98	151.75	0.23
2SK5	0.2084474	0.068	0.099	0.050	0.10	113.40	126.55	5.46	156.28	0.47
*2MN6	0.2400221	0.314	0.206	-0.006	0.21	54.75	42.36	328.13	35.78	2.3
*M6	0.2415342	0.599	0.182	-0.054	0.17	39.62	19.07	354.02	19.97	11
*2MS6	0.2443561	0.333	0.192	0.131	0.20	26.16	42.50	32.44	37.13	3
2SM6	0.2471781	0.101	0.141	-0.025	0.14	145.63	104.77	182.39	128.64	0.52
3MK7	0.2833149	0.051	0.085	0.006	0.09	157.91	109.83	300.38	130.23	0.36
M8	0.3220456	0.115	0.091	-0.061	0.10	62.04	85.12	297.74	76.23	1.6

total var= 138.7093 pred var= 82.252  
percent total var predicted/var original= 59.3 %