

Ellipse Parameters at LT-A, 1990					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	No Data				
3	75	7.24	2.76	272	0.62
4	720	6.98	2.65	282	0.62
5	385	6.99	2.86	287	0.59
6	No Data				
7	506	6.62	1.53	283	0.77
8	698	6.99	2.01	286	0.71
9	No Data				
10	175	6.24	3.78	273	0.39
11	720	5.00	2.14	259	0.57
12	744	5.46	2.57	259	0.53
All Year	4023	6.28	2.69	279	0.57

Ellipse Parameters at LT-A, 1991					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	744	5.41	2.52	266	0.53
2	620	5.76	2.40	258	0.58
3	744	6.51	2.90	267	0.55
4	720	7.58	2.67	273	0.65
5	744	7.36	2.22	263	0.70
6	564	7.36	2.14	273	0.71
7	744	6.05	1.31	276	0.78
8	744	6.75	2.35	277	0.65
9	336	7.14	2.41	277	0.66
10	323	6.01	2.40	263	0.60
11	No Data				
12	No Data				
All Year	6283	6.62	2.52	270	0.62

Ellipse Parameters at LT-A, 1992					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	No Data				
3	No Data				
4	No Data				
5	No Data				
6	674	6.29	2.27	265	0.64
7	744	4.29	1.17	258	0.73
8	744	2.95	1.22	266	0.59
9	539	3.01	1.49	265	0.51
10	267	6.51	2.26	268	0.65
11	422	4.99	2.05	260	0.59
12	No Data				
All Year	3390	4.75	1.76	264	0.63

Ellipse Parameters at LT-A, 1993					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	79	4.85	1.80	264	0.63
3	518	5.68	2.72	276	0.52
4	No Data				
5	No Data				
6	365	3.96	1.21	302	0.70
7	744	4.72	1.18	304	0.75
8	744	4.62	1.09	300	0.76
9	574	4.38	1.23	294	0.72
10	634	7.15	1.76	298	0.75
11	375	6.18	2.19	285	0.64
12	No Data				
All Year	4033	5.28	1.87	294	0.65

Ellipse Parameters at LT-A, 1994					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	319	5.63	2.12	240	0.62
3	744	5.83	2.09	245	0.64
4	720	5.68	1.98	252	0.65
5	744	5.69	1.61	254	0.72
6	724	4.38	2.00	289	0.54
7	744	4.42	1.33	304	0.70
8	744	4.31	1.65	304	0.62
9	720	4.02	1.51	315	0.62
10	740	3.16	1.51	286	0.52
11	720	5.12	2.06	272	0.60
12	744	5.37	2.92	268	0.46
All Year	7663	4.67	2.66	268	0.43

Ellipse Parameters at LT-A, 1995					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	744	5.51	2.43	268	0.56
2	602	5.13	2.33	279	0.55
3	744	4.67	1.86	297	0.60
4	720	4.45	1.79	307	0.60
5	744	3.90	1.57	299	0.60
6	719	5.83	2.45	258	0.58
7	744	5.92	1.51	250	0.74
8	744	7.23	2.03	257	0.72
9	714	8.41	2.00	264	0.76
10	744	6.64	2.52	261	0.62
11	705	5.21	2.32	249	0.56
12	744	4.83	1.86	235	0.61
All Year	8668	5.61	2.65	263	0.53

Ellipse Parameters at LT-A, 1996					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	744	3.93	2.14	241	0.45
2	393	5.94	2.46	230	0.59
3	744	5.76	2.21	233	0.62
4	720	6.01	2.48	239	0.59
5	744	6.65	2.43	234	0.63
6	716	6.89	1.89	246	0.73
7	744	6.53	2.03	250	0.69
8	744	7.60	2.00	257	0.74
9	720	7.91	2.55	266	0.68
10	1454	3.66	2.47	244	0.33
11	1440	2.72	2.10	240	0.23
12	1488	2.94	2.64	325	0.10
All Year	10651	5.26	2.60	248	0.51

Ellipse Parameters at LT-A, 1997					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	1488	3.03	2.29	39	0.24
2	716	4.28	2.24	254	0.48
3	744	5.58	2.11	242	0.62
4	720	5.99	2.59	253	0.57
5	744	6.03	2.55	251	0.58
6	719	7.16	2.17	245	0.70
7	744	6.86	2.03	246	0.70
8	744	8.25	2.00	249	0.76
9	714	6.96	2.69	246	0.61
10	744	6.31	2.30	258	0.63
11	720	5.83	2.73	247	0.53
12	744	5.25	1.97	239	0.63
All Year	9541	5.98	2.43	247	0.59

Ellipse Parameters at LT-A, 1998					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	725	4.92	2.29	248	0.53
2	441	5.45	3.08	281	0.43
3	744	7.22	2.22	285	0.69
4	720	6.78	2.64	283	0.61
5	744	7.08	3.29	289	0.54
6	718	6.51	2.76	265	0.58
7	744	7.59	2.20	260	0.71
8	744	7.00	1.72	248	0.75
9	717	7.68	2.04	261	0.73
10	744	7.76	2.18	281	0.72
11	720	4.90	1.36	278	0.72
12	744	4.89	2.22	268	0.55
All Year	8505	6.52	2.85	271	0.56

Ellipse Parameters at LT-A, 1999					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	744	5.55	2.58	272	0.54
2	593	5.82	2.19	260	0.62
3	744	6.07	3.07	261	0.49
4	720	6.32	2.55	260	0.60
5	704	6.89	2.81	256	0.59
6	710	6.56	1.63	249	0.75
7	744	2.56	0.88	248	0.66
8	744	1.89	0.88	264	0.53
9	637	4.92	1.66	272	0.66
10	437	8.01	2.30	286	0.71
11	No Data				
12	No Data				
All Year	6777	5.67	2.44	264	0.57

Ellipse Parameters at LT-A, 2000					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	344	4.99	1.69	331	0.66
3	744	4.89	1.61	337	0.67
4	720	5.92	2.33	340	0.61
5	735	6.46	2.68	292	0.59
6	720	7.15	2.85	285	0.60
7	723	6.77	1.82	281	0.73
8	No Data				
9	76	7.36	2.11	262	0.71
10	385	6.33	2.20	266	0.65
11	330	5.08	1.99	250	0.61
12	No Data				
All Year	4777	5.65	3.56	292	0.37

Ellipse Parameters at LT-A, 2001					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	369	5.05	2.13	241	0.58
3	744	6.14	2.56	252	0.58
4	720	5.74	2.04	250	0.64
5	767	6.29	2.59	256	0.59
6	720	4.74	2.27	44	0.52
7	565	4.28	1.98	38	0.54
8	No Data				
9	No Data				
10	199	5.17	2.16	273	0.58
11	720	5.50	2.09	272	0.62
12	744	5.29	2.16	269	0.59
All Year	5548	5.36	2.79	253	0.48

Ellipse Parameters at LT-A, 2002					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	744	5.51	2.25	267	0.59
2	669	5.62	2.58	249	0.54
3	744	6.17	2.58	247	0.58
4	720	6.72	2.34	253	0.65
5	742	6.37	2.20	261	0.65
6	720	7.04	2.73	267	0.61
7	744	6.28	1.77	263	0.72
8	744	6.66	1.93	264	0.71
9	617	6.78	2.07	269	0.69
10	No Data				
11	No Data				
12	No Data				
All Year	6444	6.45	2.45	261	0.62

Ellipse Parameters at LT-A, 2003					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	No Data				
3	35	4.37	1.63	273	0.63
4	720	4.10	2.71	236	0.34
5	744	3.53	2.34	238	0.34
6	720	4.10	1.91	226	0.54
7	744	4.25	1.97	227	0.54
8	744	4.29	2.08	231	0.52
9	637	5.34	3.07	259	0.43
10	744	9.12	2.89	286	0.68
11	720	7.81	2.78	283	0.64
12	143	7.25	4.30	280	0.41
All Year	5951	5.42	3.41	274	0.37

Ellipse Parameters at LT-A, 2004					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	585	4.36	2.47	254	0.43
3	744	4.55	2.42	257	0.47
4	720	4.72	3.37	247	0.29
5	741	6.07	3.10	256	0.49
6	720	7.33	2.40	270	0.67
7	744	7.17	2.86	266	0.60
8	744	7.16	2.35	267	0.67
9	717	7.23	2.48	272	0.66
10	744	4.10	2.41	256	0.41
11	349	4.17	2.36	254	0.43
12	No Data				
All Year	6808	5.97	2.87	265	0.52

Ellipse Parameters at LT-A, 2005					
Hour-Averaged Point Current-Meter Observations at ~31 m					
Month	No. of Points	Major Axis (cm/s)	Major Axis (cm/s)	Major Orientation (degrees)	Ellipticity
1	No Data				
2	463	4.66	2.58	275	0.45
3	744	4.68	2.77	279	0.41
4	720	5.28	3.15	274	0.40
5	739	4.94	4.79	263	0.03
6	720	4.28	2.81	267	0.34
7	744	4.31	2.42	285	0.44
8	744	4.25	2.30	275	0.46
9	579	4.37	2.23	291	0.49
10	No Data				
11	No Data				
12	No Data				
All Year	5453	4.60	3.07	278	0.33