

Earthquake Highlights

January 2016

with KGS earthquake catalog covering Jan 1-Dec 31, 2015

Issue 1

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Kansas Geological Survey Open-file Report 2016-20

Appendix A

Earthquakes located by the Southern Kansas KCC/KGS Temporary Network in 2015. Yellow highlighting indicates SAS greater than 17, green indicates earthquakes also reported in the National Earthquake Information Center (NEIC) global earthquake bulletin (Preliminary Determination of Epicenters, (PDE)), and blue indicates the earthquake with the largest magnitude detected by the KCC/KGS network.

Because of the length of this appendix it was not included in the January 2016 *Earthquake Highlights* report. The text of the report may be accessed online at http://www.kgs.ku.edu/Geophysics/Earthquakes/Newsletter/EQ_Highlights_Issue_1_Jan2016.pdf.

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/1/15 5:09	37.158	-97.716	1.6	2.7	1.9	6.6
1/1/15 14:41	37.254	-98.018	1.8	5.9	3.4	18.2
1/1/15 15:17	37.246	-98.001	2.4	2.1	1.2	20.8
1/1/15 15:41	37.250	-98.030	1.9	3.3	1.8	18.6
1/1/15 15:47	37.263	-98.031	2.3	2.8	1.5	20.3
1/2/15 0:03	37.256	-98.029	2.4	6.7	3.5	20.8
1/2/15 0:08	37.081	-97.701	2.1	1.7	1.2	15.4
1/2/15 0:08	37.071	-97.708	2.1	1.6	1.1	13.4
1/2/15 0:26	37.273	-98.005	1.8	1.7	1.0	18.2
1/2/15 4:55	37.155	-97.890	1.8	6.2	4.2	10.2
1/2/15 6:35	37.079	-97.715	2.3	1.2	0.8	20.3
1/2/15 7:38	37.080	-97.719	1.8	2.5	1.7	18.2
1/2/15 8:28	37.201	-97.891	2.3	1.8	1.0	18.3
1/2/15 8:37	37.090	-97.708	2.2	3.1	2.2	19.8
1/2/15 8:51	37.201	-97.890	1.6	1.6	1.0	17.6
1/2/15 10:40	37.249	-97.959	1.7	6.0	3.5	17.9
1/2/15 11:53	37.194	-97.892	1.8	1.5	0.9	18.2
1/2/15 12:34	37.198	-97.897	2.1	1.5	0.9	19.4
1/2/15 12:45	37.247	-98.034	1.7	4.8	2.4	17.9
1/2/15 13:08	37.236	-98.010	2.0	3.4	1.9	19.0
1/2/15 13:32	37.222	-97.877	2.1	5.3	3.3	19.4
1/2/15 14:03	37.201	-97.889	2.1	2.2	1.2	19.4
1/2/15 15:22	37.208	-97.881	1.6	3.0	1.8	17.6
1/2/15 16:38	37.185	-97.986	1.3	5.3	2.8	16.7
1/2/15 17:02	37.253	-98.027	1.4	4.8	2.4	17.0
1/2/15 17:55	37.195	-97.892	1.4	1.9	1.1	17.0
1/2/15 18:25	37.249	-98.035	1.6	2.9	1.5	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/2/15 18:43	37.358	-98.064	1.6	2.8	1.5	5.6
1/2/15 20:34	37.068	-98.054	2.0	4.6	2.3	10.0
1/2/15 23:17	37.230	-98.037	1.7	3.6	2.0	17.9
1/3/15 5:33	37.101	-97.999	2.4	3.5	1.9	18.8
1/3/15 8:17	37.064	-97.717	1.9	2.0	1.3	16.6
1/3/15 11:30	37.193	-98.029	1.6	6.2	3.3	17.6
1/3/15 17:56	37.275	-97.610	1.3	4.0	5.1	10.7
1/3/15 19:12	37.098	-97.690	1.5	1.4	1.1	14.3
1/3/15 20:10	37.194	-97.911	1.9	1.9	1.2	18.6
1/3/15 20:16	37.198	-97.894	1.8	2.3	1.5	18.2
1/3/15 21:18	37.155	-97.988	1.9	4.6	2.0	18.6
1/4/15 0:37	37.187	-97.897	1.8	3.4	2.1	18.2
1/4/15 7:02	37.181	-98.803	1.2	1.9	2.0	4.4
1/4/15 9:35	37.276	-98.001	1.5	1.9	3.4	16.3
1/4/15 10:44	37.243	-98.027	2.2	3.3	1.7	19.8
1/4/15 10:55	37.266	-98.029	2.5	3.3	1.7	22.3
1/4/15 11:20	37.244	-98.052	2.2	2.8	1.5	19.8
1/4/15 16:14	37.207	-97.905	2.0	3.5	2.0	19.0
1/4/15 16:29	37.097	-98.003	1.8	3.3	1.8	16.2
1/4/15 16:31	37.180	-97.923	1.7	2.1	1.3	17.9
1/4/15 16:55	37.199	-97.890	1.6	2.5	1.5	17.6
1/4/15 18:58	37.177	-98.016	1.9	1.8	1.0	18.6
1/4/15 19:10	37.213	-98.007	2.1	4.3	2.3	19.4
1/4/15 22:07	37.020	-99.313	2.1	2.7	3.7	9.4
1/4/15 22:19	37.053	-99.262	1.9	2.5	4.1	9.6
1/4/15 23:21	37.241	-98.014	2.1	2.7	1.5	19.4
1/4/15 23:46	37.247	-98.010	2.1	4.1	2.1	19.4
1/4/15 23:57	37.260	-98.010	2.0	2.3	1.2	19.0
1/5/15 4:10	37.249	-98.007	1.8	1.4	0.8	18.2
1/5/15 5:06	37.030	-99.418	1.9	9.5	8.3	9.6
1/5/15 5:09	37.073	-97.703	1.9	2.5	1.7	15.6
1/5/15 10:43	37.243	-98.025	2.1	3.0	1.6	19.4
1/5/15 12:57	37.035	-98.137	2.3	2.4	1.2	11.3
1/5/15 13:46	37.022	-98.135	2.5	2.6	1.1	15.3
1/5/15 15:20	37.109	-97.795	1.6	2.5	3.4	17.6
1/5/15 16:03	37.177	-97.904	1.3	3.0	4.8	15.7
1/5/15 17:16	37.071	-97.862	1.7	2.9	1.7	10.9
1/5/15 18:54	37.091	-97.827	1.8	1.9	2.6	15.2
1/5/15 19:02	37.206	-97.844	1.6	2.4	3.8	15.6
1/5/15 19:02	37.194	-97.894	2.1	2.0	1.3	17.4
1/5/15 21:38	37.064	-97.862	2.0	3.6	2.1	16.0
1/5/15 21:44	37.304	-97.935	2.0	4.1	3.2	19.0
1/5/15 21:54	37.288	-97.951	2.5	3.7	2.3	21.3
1/6/15 4:15	37.271	-97.639	1.5	2.6	2.2	13.3
1/6/15 5:05	37.095	-97.660	1.3	2.4	2.9	14.7
1/6/15 6:18	37.084	-97.695	1.5	3.3	4.0	16.3
1/6/15 9:28	37.104	-97.696	1.8	6.2	4.2	17.2
1/6/15 14:23	37.251	-97.990	1.9	1.4	2.4	16.6
1/6/15 16:24	37.259	-97.965	1.8	1.3	2.5	17.2
1/6/15 21:24	37.185	-97.881	1.9	3.7	2.2	14.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/6/15 21:25	37.199	-97.867	1.2	2.2	5.2	13.4
1/6/15 21:26	37.205	-97.896	1.1	1.6	3.8	13.2
1/7/15 3:44	37.023	-98.127	2.2	3.5	1.6	13.8
1/7/15 17:03	37.015	-98.133	1.7	4.6	1.0	13.9
1/7/15 23:04	37.008	-97.944	1.8	1.8	1.0	8.2
1/8/15 1:32	37.203	-97.895	2.0	1.2	0.8	16.0
1/8/15 2:51	37.124	-98.029	2.1	3.2	2.2	19.4
1/8/15 3:35	37.117	-97.624	1.6	4.5	3.5	14.6
1/8/15 7:09	37.264	-98.025	2.4	4.9	2.6	18.8
1/8/15 8:34	37.096	-97.583	1.5	1.6	1.3	14.3
1/8/15 11:47	37.126	-97.956	1.9	4.2	2.2	17.6
1/8/15 18:40	37.103	-98.005	1.8	3.4	1.7	17.2
1/8/15 19:23	37.239	-98.019	2.1	3.1	1.6	18.4
1/8/15 20:52	37.199	-97.895	1.8	1.7	1.0	16.2
1/8/15 21:31	37.105	-98.053	1.8	3.5	1.6	17.2
1/8/15 21:50	37.197	-98.023	2.4	2.8	1.4	19.8
1/9/15 5:46	37.229	-97.957	1.8	2.4	1.3	18.2
1/9/15 22:16	37.237	-98.028	2.2	2.6	1.3	17.8
1/9/15 22:39	37.236	-98.029	2.2	3.2	1.8	17.8
1/10/15 2:42	37.074	-97.713	2.0	1.6	1.0	15.0
1/10/15 4:00	37.281	-97.613	1.9	1.2	1.4	16.6
1/10/15 8:33	37.200	-97.891	0.9	1.3	0.8	11.8
1/10/15 15:19	37.131	-98.010	1.7	4.8	2.7	13.9
1/10/15 16:22	37.045	-97.940	1.7	2.7	1.3	13.9
1/10/15 16:36	37.198	-97.895	2.3	1.5	0.8	20.3
1/10/15 22:45	37.222	-97.903	1.9	2.6	1.4	18.6
1/10/15 23:52	37.195	-97.893	2.4	1.6	0.9	20.8
1/11/15 0:05	37.204	-97.900	2.7	1.4	0.8	22.3
1/11/15 0:17	37.260	-97.638	1.5	1.8	1.5	15.3
1/11/15 1:32	37.288	-97.611	1.5	1.7	1.2	15.3
1/11/15 1:49	37.179	-98.848	1.5	4.7	5.5	7.3
1/11/15 3:26	37.107	-97.489	1.8	1.2	1.1	8.2
1/11/15 3:27	37.199	-97.896	1.8	1.8	1.0	18.2
1/11/15 4:18	37.198	-97.890	2.2	1.5	0.8	19.8
1/11/15 5:25	37.250	-98.038	2.0	2.4	1.3	17.0
1/11/15 6:08	37.202	-97.891	2.5	1.8	1.0	21.3
1/11/15 6:29	37.158	-97.821	2.1	1.4	0.9	19.4
1/11/15 8:23	37.275	-97.944	1.9	2.9	2.3	18.6
1/11/15 9:01	37.221	-97.897	1.6	1.9	1.1	17.6
1/11/15 9:05	37.202	-97.886	1.8	1.8	3.9	18.2
1/11/15 9:27	37.209	-97.891	1.2	2.1	1.4	14.4
1/11/15 10:36	37.207	-97.901	1.9	3.1	1.8	18.6
1/11/15 12:16	37.221	-97.876	2.3	5.9	3.5	20.3
1/11/15 16:49	37.237	-97.845	1.5	2.0	1.3	17.3
1/11/15 22:04	37.084	-97.720	1.9	1.3	1.0	18.6
1/11/15 23:19	37.196	-97.880	2.1	3.4	2.0	19.4
1/12/15 2:53	37.093	-97.680	1.4	2.1	1.5	14.0
1/12/15 3:19	37.207	-97.889	2.4	2.9	1.7	20.8
1/12/15 4:36	37.232	-97.939	1.9	1.7	1.0	18.6
1/12/15 6:33	37.136	-97.724	2.4	1.7	1.3	20.8

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/12/15 6:46	37.146	-97.729	2.1	2.6	1.8	18.4
1/12/15 10:41	37.206	-97.903	1.8	1.6	0.9	18.2
1/12/15 12:02	37.138	-97.764	2.0	3.2	2.3	19.0
1/12/15 19:55	37.267	-97.848	1.4	1.9	3.2	16.0
1/12/15 21:01	37.055	-97.690	2.7	3.7	2.4	20.3
1/13/15 7:12	37.117	-97.643	1.8	1.8	2.1	17.2
1/13/15 9:52	37.236	-97.964	1.7	1.5	0.9	17.9
1/13/15 10:23	37.111	-97.669	2.3	3.3	2.3	20.3
1/13/15 14:25	37.209	-97.868	1.8	1.4	0.9	18.2
1/13/15 19:23	37.291	-97.602	1.4	1.8	2.2	15.0
1/14/15 2:27	37.072	-97.604	2.1	2.4	1.8	17.4
1/14/15 4:03	37.255	-97.943	2.4	5.5	3.0	20.8
1/14/15 6:36	37.118	-97.637	1.4	3.7	4.4	15.0
1/14/15 8:27	37.205	-97.896	2.4	1.6	0.9	20.8
1/14/15 8:27	37.199	-97.895	2.3	1.5	0.8	20.3
1/14/15 9:23	37.200	-97.898	1.9	1.8	1.1	18.6
1/14/15 9:38	37.242	-97.982	2.0	3.5	1.9	19.0
1/14/15 9:40	37.270	-97.617	1.6	1.9	2.2	16.6
1/14/15 10:04	37.143	-97.810	1.8	4.3	2.9	15.2
1/14/15 11:31	37.253	-97.649	1.9	1.6	1.2	16.6
1/14/15 13:21	37.203	-97.897	2.5	1.6	0.9	21.3
1/14/15 20:15	37.079	-97.692	1.2	4.9	5.9	13.4
1/15/15 0:49	37.035	-97.845	1.6	4.4	2.5	15.6
1/15/15 2:40	37.301	-97.558	0.9	1.9	2.2	12.8
1/15/15 3:46	37.241	-97.635	1.3	1.7	2.2	14.7
1/15/15 11:14	37.039	-97.921	1.7	3.5	2.0	17.9
1/15/15 16:01	37.221	-97.622	2.3	2.3	1.7	16.3
1/15/15 16:04	37.063	-97.919	2.5	3.0	1.6	20.3
1/15/15 18:13	37.064	-97.910	1.8	3.6	2.0	18.2
1/16/15 2:30	37.060	-97.911	1.8	2.3	1.4	17.2
1/16/15 7:24	37.077	-98.012	2.0	2.2	1.1	19.0
1/16/15 7:24	37.083	-98.013	2.9	2.0	1.0	21.4
1/16/15 8:15	37.247	-97.658	2.3	2.1	1.7	17.3
1/16/15 9:22	37.035	-97.924	1.1	2.6	1.4	12.2
1/16/15 12:57	37.154	-97.819	1.6	2.1	1.4	13.6
1/16/15 15:36	37.248	-97.908	1.5	2.0	1.2	13.3
1/16/15 18:18	37.262	-97.633	1.5	1.3	1.7	13.3
1/16/15 22:17	37.210	-98.006	1.2	2.8	1.5	12.4
1/17/15 3:11	37.536	-97.139	1.8	1.6	2.0	6.2
1/17/15 10:09	37.408	-97.956	1.6	1.9	1.0	7.6
1/17/15 11:34	37.135	-98.020	1.8	6.8	4.0	16.2
1/17/15 13:55	37.089	-97.959	1.6	3.2	4.6	14.6
1/17/15 16:42	37.420	-97.953	1.6	1.6	3.0	9.6
1/18/15 0:33	37.404	-97.965	2.4	2.3	1.1	13.8
1/18/15 2:21	37.396	-97.973	2.0	4.5	2.2	19.0
1/18/15 2:53	37.051	-97.910	2.3	3.4	1.8	15.3
1/18/15 3:38	37.143	-97.668	1.3	4.7	6.0	14.7
1/18/15 4:14	37.321	-98.145	2.0	6.3	2.7	10.0
1/18/15 5:01	37.146	-98.048	1.5	2.9	1.5	14.3
1/18/15 8:42	37.346	-98.159	1.5	3.5	1.3	10.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/18/15 12:53	37.080	-97.700	1.4	1.4	1.0	15.0
1/18/15 17:17	37.087	-97.701	1.6	1.4	1.0	15.6
1/18/15 18:44	37.439	-97.918	1.7	2.2	4.5	14.9
1/19/15 0:20	37.272	-97.848	2.1	5.7	3.5	19.4
1/19/15 1:00	37.204	-97.885	1.2	1.3	1.2	14.4
1/19/15 6:45	37.033	-97.909	2.4	2.7	1.5	16.8
1/19/15 7:44	37.101	-97.999	1.7	3.2	1.7	13.9
1/19/15 8:23	37.061	-98.170	2.2	3.6	1.6	15.8
1/19/15 9:52	37.246	-97.919	1.6	2.3	1.5	17.6
1/19/15 9:54	37.200	-97.893	2.8	1.7	1.0	21.8
1/19/15 10:07	37.193	-97.890	1.8	2.2	1.4	18.2
1/19/15 10:56	37.189	-97.900	2.0	2.0	1.4	19.0
1/19/15 11:45	37.185	-97.899	2.0	3.6	2.3	19.0
1/19/15 12:15	37.104	-97.840	2.5	3.3	1.9	19.3
1/19/15 13:17	37.196	-97.888	1.6	1.8	1.1	17.6
1/19/15 18:45	37.198	-97.892	2.5	1.7	1.0	21.3
1/19/15 19:46	37.279	-97.616	2.1	1.9	1.6	16.4
1/19/15 22:03	37.200	-97.886	2.3	1.7	1.0	20.3
1/19/15 23:21	37.246	-97.660	2.4	1.0	0.8	17.8
1/20/15 4:10	37.413	-97.979	2.1	1.6	0.8	16.4
1/20/15 6:12	37.287	-97.898	2.1	1.9	1.3	17.4
1/20/15 7:04	37.109	-97.822	3.0	2.3	3.1	22.0
1/20/15 7:12	37.195	-97.898	1.7	2.2	1.4	17.9
1/20/15 8:57	37.238	-97.885	2.4	1.2	1.2	20.8
1/20/15 9:22	37.408	-97.965	1.7	2.3	1.2	15.9
1/20/15 10:29	37.087	-97.826	1.7	2.2	0.8	13.9
1/20/15 21:06	37.414	-97.928	1.3	1.3	2.8	14.7
1/20/15 22:49	37.081	-97.716	1.4	2.9	2.5	14.0
1/21/15 5:32	37.180	-97.473	1.2	1.5	2.0	6.4
1/21/15 7:18	37.206	-97.859	1.7	1.9	3.1	17.9
1/21/15 8:10	37.198	-97.889	1.4	1.4	1.3	16.0
1/21/15 8:35	37.222	-97.859	1.4	1.5	1.1	16.0
1/21/15 9:33	37.417	-97.940	1.7	1.9	1.4	14.9
1/21/15 11:12	37.101	-97.788	1.2	5.3	4.6	13.4
1/21/15 11:19	37.164	-97.796	2.1	1.2	1.1	17.4
1/21/15 14:15	37.205	-98.151	1.9	3.7	1.0	6.6
1/21/15 15:54	37.232	-97.958	1.5	1.2	0.9	17.3
1/21/15 16:03	37.425	-97.453	1.7	6.8	6.1	5.9
1/21/15 16:25	37.101	-97.845	2.0	1.7	1.1	18.0
1/21/15 17:26	37.270	-97.631	1.5	1.7	2.1	16.3
1/21/15 19:12	37.260	-97.645	1.4	1.2	1.6	16.0
1/21/15 23:15	37.255	-97.628	1.6	1.3	1.0	16.6
1/22/15 1:59	37.261	-97.980	1.7	2.8	5.2	16.9
1/22/15 6:53	37.211	-97.900	2.1	2.7	1.8	19.4
1/22/15 10:45	37.273	-97.644	1.6	1.8	1.6	16.6
1/22/15 13:15	37.092	-97.827	1.6	3.2	4.4	16.6
1/22/15 13:42	37.218	-97.947	2.0	3.8	2.3	19.0
1/22/15 15:20	37.093	-97.837	1.6	3.3	2.8	17.6
1/22/15 15:50	37.374	-97.963	1.8	2.4	1.3	14.2
1/22/15 16:43	37.084	-97.994	2.1	1.9	1.0	17.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/22/15 19:56	37.182	-97.915	2.0	3.9	2.5	19.0
1/23/15 2:48	37.072	-97.707	1.9	1.3	1.2	18.6
1/23/15 3:53	37.150	-97.996	1.8	2.4	1.2	18.2
1/23/15 4:00	37.093	-97.618	2.5	6.8	6.8	20.3
1/23/15 4:28	37.075	-97.800	2.1	7.7	5.4	19.4
1/23/15 4:30	37.074	-97.710	1.1	2.6	1.7	14.2
1/23/15 4:31	37.089	-97.660	1.5	5.0	3.8	17.3
1/23/15 4:48	37.096	-97.669	1.8	3.1	2.1	18.2
1/23/15 6:31	37.106	-97.655	2.0	2.1	1.6	19.0
1/23/15 6:41	37.150	-98.003	1.6	1.4	0.7	17.6
1/23/15 11:41	37.095	-97.667	2.2	1.4	1.0	19.8
1/23/15 11:55	37.099	-97.658	1.9	1.1	0.8	18.6
1/23/15 13:20	37.095	-97.836	1.6	2.5	1.5	16.6
1/23/15 13:45	37.103	-97.673	1.6	1.4	1.0	17.6
1/23/15 14:39	37.200	-97.895	2.3	1.3	0.8	19.3
1/23/15 16:38	37.201	-97.888	2.1	1.1	0.9	19.4
1/23/15 23:06	37.158	-97.813	2.0	3.0	1.2	19.0
1/24/15 1:25	37.104	-97.672	2.3	1.6	1.2	20.3
1/24/15 2:52	37.214	-97.851	1.7	1.7	3.3	16.9
1/24/15 23:59	37.247	-97.908	1.8	1.9	1.1	17.2
1/25/15 0:35	37.114	-97.580	1.0	4.6	5.2	13.0
1/25/15 1:35	37.141	-97.736	2.3	1.0	0.7	18.3
1/25/15 4:40	37.259	-97.648	1.8	1.2	1.0	15.2
1/25/15 4:44	37.137	-97.727	2.1	2.3	1.6	17.4
1/25/15 5:17	37.109	-97.635	1.2	1.6	1.9	13.4
1/25/15 10:10	37.253	-97.658	1.9	1.4	1.9	15.6
1/25/15 11:57	37.106	-97.647	1.8	1.6	1.1	18.2
1/25/15 13:35	37.149	-97.613	2.1	3.3	3.8	16.4
1/25/15 14:06	37.254	-98.013	1.7	3.7	2.1	15.9
1/25/15 16:38	37.220	-97.971	1.8	2.9	1.6	16.2
1/26/15 9:06	37.073	-97.641	1.5	1.6	1.5	17.3
1/26/15 10:50	37.167	-97.748	1.1	5.2	7.3	12.2
1/27/15 4:25	37.081	-97.647	1.7	2.1	1.2	17.9
1/27/15 5:28	37.121	-97.656	2.3	2.9	2.2	20.3
1/27/15 5:59	37.108	-97.657	1.9	2.2	2.7	18.6
1/27/15 6:34	37.095	-97.691	2.0	3.4	3.2	19.0
1/27/15 7:13	37.109	-97.662	1.9	0.9	0.7	18.6
1/27/15 7:38	37.093	-97.675	2.4	1.5	1.0	20.8
1/27/15 9:28	37.100	-97.678	2.5	1.4	0.9	20.3
1/27/15 9:31	37.101	-97.672	1.8	1.5	1.1	18.2
1/27/15 11:24	37.187	-97.894	2.1	1.5	0.9	15.4
1/27/15 12:47	37.207	-98.738	2.0	0.8	0.9	9.0
1/27/15 13:22	37.102	-97.657	1.6	2.0	1.5	17.6
1/27/15 13:30	37.084	-97.642	1.8	1.6	1.2	18.2
1/27/15 17:28	37.277	-97.618	2.4	0.9	0.7	16.8
1/28/15 2:26	37.109	-97.798	1.6	1.0	0.7	16.6
1/28/15 17:42	37.198	-97.896	2.3	1.1	0.7	20.3
1/28/15 17:50	37.200	-97.886	2.0	1.5	1.4	19.0
1/28/15 23:54	37.088	-97.833	1.7	2.9	1.7	17.9
1/29/15 0:39	37.114	-97.870	1.9	3.2	2.0	18.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
1/29/15 2:10	37.078	-97.636	1.7	3.2	2.3	17.9
1/29/15 3:33	37.107	-97.662	2.4	2.1	1.9	19.8
1/29/15 3:36	37.092	-97.660	1.4	2.5	1.7	17.0
1/29/15 4:37	37.107	-97.680	2.2	2.2	1.8	19.8
1/29/15 5:58	37.103	-97.661	2.1	4.2	3.6	19.4
1/29/15 7:04	37.112	-97.607	1.7	4.7	3.9	17.9
1/29/15 8:09	37.146	-97.842	1.6	6.0	4.7	17.6
1/29/15 17:15	37.205	-97.901	2.2	3.5	2.2	19.8
1/29/15 20:21	37.199	-97.898	2.4	2.9	1.8	20.8
1/29/15 20:47	37.222	-97.910	1.3	2.6	1.5	16.7
1/29/15 23:09	37.065	-97.670	1.6	3.3	2.4	17.6
1/29/15 23:41	37.220	-97.879	1.6	2.9	2.4	17.6
1/29/15 23:42	37.208	-97.849	1.7	1.1	0.8	17.9
1/29/15 23:51	37.152	-98.011	1.7	3.6	2.3	14.9
1/30/15 0:21	37.271	-97.627	2.1	1.8	1.3	15.4
1/30/15 1:21	37.203	-97.903	1.7	1.1	0.9	17.9
1/30/15 2:26	37.162	-98.808	1.9	1.0	1.2	12.6
1/30/15 4:32	37.086	-97.659	1.8	2.8	2.3	18.2
1/30/15 4:32	37.164	-97.631	1.9	5.5	4.7	18.6
1/30/15 7:12	37.247	-98.757	1.8	1.2	1.3	10.2
1/30/15 7:52	37.221	-97.837	1.7	3.3	2.9	17.9
1/30/15 8:55	37.089	-97.637	2.0	3.0	3.1	19.0
1/30/15 9:58	37.215	-97.920	1.8	3.1	2.4	18.2
1/30/15 12:57	37.138	-97.611	1.6	3.7	3.3	17.6
1/30/15 14:33	37.308	-97.550	1.2	2.4	1.5	13.4
1/30/15 18:28	37.114	-97.630	1.7	2.0	1.7	17.9
1/30/15 18:29	37.132	-97.590	1.1	5.1	3.1	14.2
1/30/15 20:40	37.087	-97.462	2.0	4.1	5.8	9.0
1/31/15 1:29	37.277	-97.484	0.9	1.4	1.8	9.8
1/31/15 5:17	37.025	-98.150	2.0	4.0	2.2	17.0
1/31/15 5:36	37.214	-98.021	1.3	2.6	2.0	13.7
1/31/15 9:36	37.062	-97.922	2.0	1.7	1.2	19.0
1/31/15 11:50	37.106	-97.649	1.6	2.0	1.5	17.6
1/31/15 14:30	37.082	-97.638	1.7	3.2	2.5	17.9
1/31/15 17:21	37.271	-97.628	1.4	1.9	1.1	13.0
1/31/15 23:19	37.229	-97.813	2.1	2.7	2.1	19.4
2/1/15 0:00	37.026	-98.143	2.0	1.9	1.1	15.0
2/1/15 4:06	37.202	-97.888	2.0	1.5	1.3	19.0
2/1/15 4:43	37.138	-97.609	1.5	3.6	5.1	17.3
2/1/15 5:06	37.202	-97.884	2.2	1.0	0.9	19.8
2/1/15 6:30	37.055	-99.220	2.0	2.0	3.3	11.0
2/1/15 7:00	37.117	-97.720	2.3	3.4	2.8	20.3
2/1/15 8:39	37.132	-97.829	2.1	1.9	1.4	19.4
2/1/15 10:21	37.076	-97.873	1.8	2.4	1.9	18.2
2/1/15 19:34	37.141	-98.021	1.6	3.3	1.8	14.6
2/2/15 7:01	37.226	-97.852	2.0	2.4	2.7	19.0
2/2/15 9:07	37.028	-98.143	2.3	1.4	0.8	17.3
2/2/15 12:02	37.241	-98.044	1.9	0.9	0.6	14.6
2/2/15 16:23	37.258	-97.895	2.0	1.3	1.8	19.0
2/2/15 18:02	37.150	-97.734	2.2	1.3	1.1	17.8

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
2/2/15 19:19	37.157	-97.804	1.8	2.6	2.4	18.2
2/3/15 7:39	37.030	-97.942	2.2	2.3	1.2	16.8
2/3/15 10:40	37.093	-97.831	1.9	2.2	1.4	18.6
2/3/15 11:35	37.020	-98.118	1.7	3.8	1.3	14.9
2/3/15 12:24	37.201	-97.898	1.3	1.5	1.1	14.7
2/3/15 16:08	37.215	-97.864	1.5	2.6	3.8	17.3
2/3/15 16:10	37.198	-97.896	2.1	1.4	1.0	19.4
2/3/15 16:31	37.210	-97.881	1.6	1.5	2.2	17.6
2/3/15 17:55	37.204	-97.889	1.9	0.9	1.0	18.6
2/3/15 20:16	37.107	-97.641	1.6	1.4	1.6	16.6
2/3/15 20:22	37.105	-97.634	1.7	1.4	1.4	16.9
2/3/15 22:19	37.104	-97.685	3.0	1.1	0.8	21.0
2/3/15 22:53	37.107	-97.833	1.4	2.4	2.9	16.0
2/4/15 0:02	37.317	-97.440	0.8	3.3	4.2	8.6
2/4/15 0:31	37.316	-97.439	0.3	3.2	4.0	8.1
2/4/15 1:51	37.318	-97.440	0.9	3.0	3.9	10.8
2/4/15 2:03	37.225	-97.954	2.1	3.7	2.4	19.4
2/4/15 5:06	37.092	-97.842	1.6	2.0	1.2	17.6
2/4/15 6:30	37.249	-97.937	1.9	1.6	1.1	18.6
2/4/15 7:34	37.089	-97.882	1.6	3.3	4.1	17.6
2/4/15 7:48	37.050	-97.956	2.5	2.5	1.3	20.3
2/4/15 7:52	37.059	-97.957	1.4	2.3	1.3	14.0
2/4/15 10:06	37.205	-97.901	2.1	1.4	1.0	19.4
2/4/15 13:20	37.205	-97.903	2.6	1.2	0.9	21.8
2/4/15 13:26	37.211	-97.874	1.5	2.0	2.9	17.3
2/4/15 13:58	37.203	-97.901	1.9	1.3	0.9	18.6
2/4/15 15:07	37.208	-97.882	1.3	1.4	1.8	16.7
2/4/15 15:07	37.207	-97.891	0.7	1.8	2.5	11.5
2/4/15 19:25	37.202	-97.896	1.8	0.9	1.0	18.2
2/4/15 20:41	37.071	-97.926	2.3	2.3	1.6	18.3
2/5/15 5:56	37.204	-97.900	2.3	1.4	1.2	20.3
2/5/15 10:32	37.089	-97.868	2.5	1.3	0.9	19.3
2/5/15 13:37	37.054	-97.655	1.6	1.6	1.4	15.6
2/5/15 23:04	37.197	-97.893	1.5	1.2	0.8	15.3
2/6/15 2:47	37.027	-97.587	1.4	1.8	1.5	14.0
2/6/15 4:40	37.048	-97.746	1.4	1.8	1.6	14.0
2/6/15 7:01	37.262	-98.469	2.1	1.4	1.1	7.4
2/6/15 8:48	37.203	-97.903	1.3	0.9	1.0	13.7
2/6/15 18:08	37.272	-97.854	1.9	1.7	2.3	17.6
2/7/15 9:40	37.194	-97.897	1.6	1.5	1.1	15.6
2/7/15 9:44	37.204	-97.901	2.2	1.3	0.8	17.8
2/7/15 22:25	37.067	-97.722	1.3	2.3	2.3	12.7
2/7/15 22:59	37.647	-97.951	1.5	4.2	3.0	5.3
2/8/15 3:37	37.200	-97.866	2.0	2.5	2.2	17.0
2/8/15 10:35	37.080	-97.893	1.6	4.6	2.5	14.6
2/8/15 19:41	37.101	-97.654	2.6	1.5	1.3	18.8
2/8/15 20:45	37.136	-97.565	2.2	1.8	2.4	16.8
2/8/15 23:27	37.115	-97.645	1.3	1.6	1.4	12.7
2/9/15 3:14	37.079	-97.881	2.4	1.8	1.2	17.8
2/9/15 5:43	37.077	-97.877	2.0	1.6	1.1	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
2/9/15 5:44	37.198	-97.917	0.9	2.2	3.1	11.8
2/9/15 5:55	37.577	-97.752	1.5	1.9	1.5	6.3
2/9/15 6:09	37.584	-97.746	1.3	3.3	2.3	7.7
2/9/15 13:47	37.117	-97.985	1.9	2.4	1.9	14.6
2/9/15 14:08	37.420	-98.880	1.4	1.0	1.8	5.0
2/10/15 0:45	37.200	-97.661	1.5	1.6	2.1	13.3
2/10/15 6:17	37.102	-97.656	2.0	1.4	1.0	15.0
2/10/15 7:32	37.210	-98.031	3.3	2.1	1.2	22.9
2/10/15 9:23	37.168	-98.017	1.2	4.3	2.4	12.4
2/10/15 9:39	37.200	-98.021	2.1	4.1	2.4	16.4
2/10/15 10:36	37.295	-97.566	1.3	3.6	3.8	13.7
2/10/15 13:00	37.282	-97.612	1.5	3.5	5.1	14.3
2/10/15 16:06	37.074	-97.619	0.7	2.8	3.1	11.5
2/10/15 16:36	37.207	-97.908	2.0	2.2	1.8	18.0
2/10/15 19:32	37.208	-97.903	2.1	1.6	1.1	18.4
2/10/15 20:43	37.221	-97.994	2.1	3.4	4.1	19.4
2/11/15 9:30	37.064	-98.025	2.0	3.1	2.2	15.0
2/11/15 12:32	37.197	-97.898	1.7	2.3	1.9	17.9
2/11/15 16:07	37.100	-97.666	1.7	2.0	2.1	13.9
2/11/15 18:24	37.025	-97.603	1.6	5.1	4.9	13.6
2/11/15 19:43	37.212	-98.013	2.4	1.9	1.3	20.8
2/11/15 19:54	37.231	-97.934	2.0	1.9	1.6	19.0
2/11/15 20:26	37.207	-97.913	1.6	1.3	1.0	17.6
2/11/15 20:52	37.211	-98.010	2.2	2.3	1.7	19.8
2/12/15 0:09	37.253	-97.990	1.5	3.2	2.3	17.3
2/12/15 4:34	37.245	-97.958	1.8	3.9	2.2	18.2
2/12/15 7:03	37.252	-98.027	2.6	2.4	1.6	20.8
2/12/15 7:30	37.195	-98.011	1.8	3.3	2.0	18.2
2/12/15 14:48	37.205	-98.027	3.0	1.3	1.0	22.0
2/12/15 18:52	37.203	-97.900	1.5	1.3	0.9	16.3
2/13/15 14:49	37.242	-97.953	2.1	3.8	2.0	16.4
2/13/15 15:45	37.006	-97.479	1.6	5.1	6.0	8.6
2/13/15 20:16	37.121	-98.025	1.6	2.4	1.3	14.6
2/14/15 3:51	37.057	-97.439	1.6	6.6	4.9	10.6
2/14/15 5:10	37.095	-97.895	2.0	1.7	1.6	18.0
2/14/15 5:27	37.067	-97.924	1.7	2.7	2.2	15.9
2/14/15 14:29	37.207	-98.015	2.1	2.2	1.4	19.4
2/14/15 18:09	37.041	-97.922	3.1	1.7	1.4	20.6
2/14/15 20:29	37.106	-97.798	1.7	2.1	1.4	14.9
2/14/15 21:49	37.111	-97.635	1.8	1.7	2.0	14.2
2/14/15 22:25	37.211	-98.029	1.4	1.3	1.0	14.0
2/15/15 1:09	37.100	-97.971	1.7	4.5	2.8	16.9
2/15/15 5:36	37.060	-97.919	2.1	2.2	2.8	18.4
2/15/15 9:43	37.069	-97.936	2.4	2.2	1.6	19.8
2/15/15 10:04	37.189	-97.990	2.0	4.0	2.4	19.0
2/15/15 12:12	37.014	-98.196	2.1	3.2	2.0	15.4
2/15/15 12:20	37.329	-98.082	1.7	1.4	0.9	10.9
2/15/15 13:13	37.206	-98.021	1.8	2.0	1.6	18.2
2/15/15 14:39	37.329	-98.082	1.7	1.4	1.0	13.9
2/15/15 17:39	37.204	-97.901	2.8	1.2	0.9	21.8

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
2/15/15 17:54	37.268	-97.608	1.4	2.6	3.2	13.0
2/15/15 18:27	37.196	-97.900	3.5	1.1	0.8	23.3
2/15/15 18:35	37.214	-97.888	1.6	4.3	3.7	17.6
2/15/15 18:37	37.190	-97.890	1.9	1.1	0.8	18.6
2/15/15 18:40	37.196	-97.903	1.6	1.2	1.0	17.6
2/15/15 18:40	37.174	-97.883	1.5	2.4	1.9	17.3
2/15/15 18:43	37.188	-97.910	1.5	1.7	1.2	17.3
2/15/15 18:54	37.195	-97.890	1.9	2.2	3.6	18.6
2/15/15 19:18	37.333	-98.081	2.2	1.8	1.4	17.8
2/15/15 20:02	37.232	-97.848	1.6	2.3	2.3	17.6
2/15/15 20:23	37.188	-97.907	1.9	1.5	1.1	18.6
2/15/15 20:36	37.205	-97.890	1.7	2.3	2.0	17.9
2/15/15 21:25	37.187	-97.896	2.0	1.5	1.1	19.0
2/15/15 22:28	37.187	-97.903	1.5	2.0	1.6	17.3
2/16/15 0:09	37.176	-97.916	1.7	1.8	1.6	17.9
2/16/15 0:20	37.188	-97.897	1.7	2.0	2.8	17.9
2/16/15 0:58	37.194	-97.904	1.6	1.2	0.9	17.6
2/16/15 1:44	37.052	-97.943	2.1	2.1	1.4	19.4
2/16/15 3:26	37.197	-97.901	2.3	1.2	1.0	20.3
2/16/15 4:00	37.326	-98.085	2.5	1.8	1.3	19.3
2/16/15 5:03	37.194	-98.011	2.3	2.4	1.8	20.3
2/16/15 7:22	37.039	-97.925	2.2	2.9	1.6	19.8
2/16/15 8:21	37.058	-97.919	1.8	2.1	1.6	17.2
2/16/15 8:22	37.064	-97.940	1.8	1.9	1.6	17.2
2/16/15 8:31	37.193	-97.906	2.4	1.1	0.8	20.8
2/16/15 12:40	37.332	-98.083	1.8	1.8	1.2	16.2
2/16/15 13:14	37.196	-97.886	1.7	1.6	2.5	17.9
2/16/15 13:31	37.203	-97.897	2.6	1.0	0.9	21.8
2/16/15 13:42	37.213	-97.881	1.2	1.4	1.7	16.4
2/16/15 14:45	37.145	-97.738	2.2	2.7	1.5	15.8
2/16/15 23:23	37.191	-97.904	1.2	2.4	1.6	16.4
2/16/15 23:23	37.210	-97.876	1.2	2.9	3.9	16.4
2/16/15 23:23	37.194	-97.877	1.2	3.9	3.6	16.4
2/17/15 2:29	37.202	-97.878	1.7	1.3	1.7	17.9
2/17/15 3:08	37.174	-97.898	1.6	1.7	1.3	17.6
2/17/15 3:24	37.206	-97.908	1.6	1.3	0.9	17.6
2/17/15 5:25	37.200	-97.887	1.7	1.9	2.8	17.9
2/17/15 10:47	37.205	-97.910	2.3	1.4	1.2	20.3
2/17/15 11:13	37.197	-97.885	1.9	1.8	1.4	18.6
2/17/15 11:54	37.098	-97.975	1.7	5.4	2.4	16.9
2/17/15 13:35	37.073	-97.945	2.0	1.4	0.9	18.0
2/17/15 14:37	37.207	-97.910	1.5	2.4	3.5	17.3
2/17/15 20:12	37.163	-97.845	1.6	2.3	4.2	17.6
2/17/15 20:19	37.201	-97.882	1.6	1.6	2.3	17.6
2/17/15 20:27	37.212	-97.862	1.4	2.8	2.6	17.0
2/17/15 20:32	37.207	-97.892	1.9	2.3	3.0	18.6
2/17/15 20:43	37.200	-97.880	1.6	2.5	3.2	17.6
2/18/15 1:56	37.197	-97.894	1.5	1.5	1.1	17.3
2/18/15 5:23	37.057	-97.947	2.1	2.6	1.8	18.4
2/18/15 5:51	37.075	-97.951	1.6	2.0	1.7	16.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
2/18/15 9:23	37.206	-98.018	1.8	2.0	1.3	16.2
2/18/15 10:36	37.209	-97.890	1.8	1.2	1.0	18.2
2/18/15 20:39	37.212	-97.892	1.2	1.6	2.2	16.4
2/18/15 20:46	37.201	-97.901	1.6	3.0	3.7	17.6
2/18/15 22:09	37.193	-97.905	1.4	1.5	1.1	17.0
2/18/15 22:21	37.192	-97.903	2.1	1.2	0.9	19.4
2/18/15 22:22	37.195	-97.897	1.7	1.1	0.9	17.9
2/18/15 22:23	37.190	-97.897	2.0	2.2	1.6	19.0
2/18/15 22:25	37.209	-97.881	1.8	2.2	2.7	18.2
2/18/15 22:28	37.192	-97.896	2.1	2.7	2.0	19.4
2/18/15 22:31	37.200	-97.899	1.9	3.2	2.4	18.6
2/19/15 4:34	37.185	-97.904	2.2	2.1	1.8	19.8
2/19/15 8:45	37.202	-97.890	1.4	2.1	3.0	17.0
2/19/15 10:51	37.069	-97.947	1.7	2.3	1.3	14.9
2/19/15 17:27	37.118	-97.615	1.7	3.2	4.1	14.9
2/19/15 18:58	37.213	-97.866	1.7	2.9	4.7	17.9
2/19/15 20:08	37.013	-97.480	1.3	4.5	3.4	12.7
2/19/15 22:20	37.217	-98.023	2.0	3.2	1.7	19.0
2/19/15 23:46	37.215	-98.011	1.7	2.3	1.7	17.9
2/20/15 0:05	37.198	-97.881	1.7	2.8	3.5	15.9
2/20/15 0:08	37.219	-97.989	1.7	1.9	2.6	17.9
2/20/15 2:06	37.259	-97.620	1.4	1.9	2.4	13.0
2/20/15 3:47	37.210	-98.027	2.7	1.1	0.7	19.3
2/20/15 4:04	37.217	-98.022	1.4	1.9	1.4	17.0
2/20/15 5:41	37.211	-98.017	2.3	1.1	1.1	18.3
2/20/15 6:28	37.196	-97.888	2.3	2.8	2.6	16.3
2/20/15 6:50	37.068	-97.926	1.6	2.4	1.6	17.6
2/20/15 7:56	37.214	-98.026	1.6	1.6	1.2	17.6
2/20/15 8:05	37.216	-98.023	1.6	1.4	1.0	17.6
2/20/15 9:50	37.531	-97.147	1.9	4.5	4.3	6.6
2/20/15 11:28	37.062	-97.933	1.6	2.7	2.1	17.6
2/20/15 14:30	37.164	-97.564	1.7	3.8	4.7	14.9
2/20/15 19:58	37.117	-98.000	1.9	2.5	2.2	16.6
2/20/15 21:02	37.031	-97.917	1.8	3.7	2.1	17.2
2/21/15 1:25	37.216	-97.860	1.0	2.1	3.3	13.0
2/21/15 4:41	37.209	-97.873	1.7	2.9	3.6	15.9
2/21/15 5:31	37.071	-98.874	1.2	4.5	5.1	4.4
2/21/15 6:33	37.035	-97.925	1.9	3.0	2.1	17.6
2/21/15 8:19	37.214	-97.902	2.2	1.9	1.3	16.8
2/21/15 13:38	37.217	-97.898	2.3	1.1	0.8	17.3
2/21/15 14:35	37.247	-97.594	1.2	4.2	4.4	12.4
2/21/15 15:32	37.215	-97.897	1.5	1.3	1.5	17.3
2/21/15 18:14	37.191	-97.899	1.6	1.3	1.2	16.6
2/22/15 0:41	37.250	-97.607	1.8	3.5	4.3	14.2
2/22/15 2:53	37.083	-97.632	1.9	2.0	1.9	16.6
2/22/15 4:32	37.093	-97.668	2.3	1.4	1.1	18.3
2/22/15 5:55	37.213	-98.026	2.6	1.5	1.0	19.8
2/22/15 8:48	37.105	-97.610	2.3	4.6	4.2	20.3
2/22/15 11:51	37.200	-98.022	2.3	1.6	1.2	18.3
2/22/15 14:56	37.205	-97.885	1.1	1.8	2.6	14.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
2/22/15 21:12	37.301	-97.980	2.0	3.1	5.2	15.0
2/22/15 22:45	37.210	-98.029	2.3	1.6	1.2	18.3
2/23/15 5:38	37.054	-97.685	1.9	6.3	6.3	17.6
2/23/15 5:47	37.067	-97.640	2.2	1.3	1.1	17.8
2/23/15 11:38	37.262	-97.563	1.9	3.2	3.1	16.6
2/23/15 11:48	37.275	-97.544	1.5	2.8	3.4	16.3
2/23/15 13:20	37.239	-97.595	1.5	4.9	5.9	16.3
2/23/15 13:41	37.257	-97.568	1.3	3.2	3.2	14.7
2/23/15 23:49	37.053	-97.673	1.6	5.9	5.4	17.6
2/24/15 0:27	37.075	-97.859	1.7	3.7	2.2	13.9
2/24/15 1:39	37.523	-97.160	2.1	1.9	2.8	9.4
2/24/15 2:32	37.213	-98.024	2.3	1.4	1.1	16.3
2/24/15 5:39	37.045	-99.152	1.9	4.3	5.5	8.6
2/24/15 8:16	37.109	-97.664	1.8	2.1	1.9	18.2
2/24/15 9:48	37.294	-98.711	1.5	2.5	3.3	7.3
2/24/15 10:50	37.209	-97.897	2.1	2.4	1.6	16.4
2/24/15 12:56	37.053	-97.698	1.5	6.1	6.1	17.3
2/24/15 13:14	37.375	-97.793	1.8	1.8	1.9	10.2
2/24/15 14:39	37.084	-97.628	1.7	1.4	1.4	17.9
2/24/15 16:23	37.054	-97.524	2.2	1.3	1.0	15.8
2/24/15 16:31	37.368	-97.762	2.4	2.3	2.0	11.8
2/24/15 16:42	37.358	-97.790	1.7	1.3	1.8	13.9
2/24/15 17:38	37.072	-97.650	1.6	1.4	1.2	17.6
2/24/15 18:38	37.364	-97.794	1.6	2.3	1.9	15.6
2/24/15 23:20	37.187	-97.904	1.2	1.2	1.1	12.4
2/24/15 23:33	37.357	-97.797	2.0	1.9	1.4	19.0
2/25/15 0:43	37.192	-97.898	2.2	1.7	1.3	16.8
2/25/15 4:12	37.341	-97.790	1.4	3.9	5.8	16.0
2/25/15 5:18	37.263	-97.566	1.5	2.5	2.4	13.3
2/25/15 16:10	37.201	-98.030	1.6	2.2	1.2	14.6
2/25/15 21:42	37.255	-98.004	1.2	1.5	2.6	13.4
2/26/15 9:46	37.203	-97.884	1.2	1.7	2.4	13.4
2/26/15 12:42	37.204	-97.894	1.2	1.1	1.3	13.4
2/26/15 14:39	37.074	-97.905	1.5	1.3	1.0	17.3
2/26/15 18:23	37.088	-97.840	1.6	2.7	3.7	16.6
2/26/15 23:11	37.076	-97.656	1.6	5.1	4.7	14.6
2/27/15 4:03	37.252	-97.574	0.7	1.2	1.5	12.5
2/27/15 5:17	37.092	-97.931	1.9	4.7	3.4	18.6
2/27/15 6:27	37.054	-97.945	1.9	2.7	1.8	18.6
2/27/15 10:15	37.066	-97.910	1.7	4.8	2.1	17.9
2/27/15 14:17	37.238	-97.942	1.5	1.4	1.1	16.3
2/27/15 14:28	37.236	-97.933	1.6	2.2	1.9	16.6
2/27/15 14:49	37.018	-97.609	1.0	2.6	2.7	12.0
2/27/15 14:49	37.011	-97.589	1.6	3.6	3.5	15.6
2/27/15 21:18	37.332	-97.588	0.6	3.1	3.3	12.4
2/27/15 22:42	37.248	-97.955	1.7	2.0	1.4	17.9
2/28/15 0:38	37.082	-97.897	2.4	1.2	0.9	20.8
2/28/15 4:43	37.076	-97.894	2.0	1.5	1.0	19.0
2/28/15 4:53	37.343	-97.576	1.3	3.8	4.3	12.7
2/28/15 8:44	37.103	-97.855	2.7	1.6	1.1	19.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
2/28/15 8:54	37.195	-97.884	2.2	0.9	0.7	19.8
2/28/15 8:56	37.115	-97.851	2.1	2.7	2.0	19.4
2/28/15 9:27	37.199	-97.871	1.6	1.2	1.0	17.6
2/28/15 10:34	37.087	-97.841	1.4	1.5	1.1	15.0
2/28/15 11:13	37.128	-97.847	1.9	4.4	3.4	18.6
2/28/15 13:15	37.355	-97.792	2.4	1.2	1.2	16.8
2/28/15 13:34	37.109	-97.839	2.1	2.4	1.5	19.4
2/28/15 13:39	37.374	-97.746	1.4	1.4	1.8	13.0
2/28/15 14:24	37.063	-97.656	1.8	4.6	4.2	15.2
2/28/15 15:51	37.192	-97.894	1.8	3.8	3.0	18.2
2/28/15 15:52	37.193	-97.903	1.8	2.1	1.7	18.2
2/28/15 17:30	37.258	-97.997	2.3	1.4	1.2	16.3
2/28/15 21:34	37.218	-97.889	1.6	1.6	1.3	17.6
2/28/15 22:04	37.098	-97.825	2.0	1.7	1.2	19.0
2/28/15 22:33	37.109	-97.835	1.7	1.3	0.9	17.9
2/28/15 22:37	37.220	-98.017	1.6	1.6	2.5	14.6
3/1/15 2:31	37.351	-98.147	2.0	1.8	1.2	15.0
3/1/15 2:47	37.097	-97.854	3.0	1.8	1.5	21.0
3/1/15 3:08	37.092	-97.829	1.4	2.1	2.0	13.0
3/1/15 6:44	37.082	-97.849	2.3	2.4	1.8	17.3
3/1/15 9:08	37.223	-98.008	1.3	1.3	1.9	12.7
3/2/15 1:52	37.210	-97.876	2.2	1.5	1.4	16.8
3/2/15 3:55	37.082	-97.845	1.5	1.4	1.2	16.3
3/2/15 4:38	37.212	-97.891	1.4	0.9	1.0	14.0
3/2/15 6:39	37.075	-97.886	1.8	3.2	2.5	18.2
3/2/15 7:13	37.090	-97.885	1.4	2.3	1.6	16.0
3/2/15 10:16	37.199	-97.885	1.9	2.3	2.0	16.6
3/2/15 10:27	37.056	-97.886	1.7	2.4	2.1	16.9
3/2/15 11:03	37.294	-97.606	0.8	1.9	1.7	12.6
3/2/15 13:55	37.244	-97.579	1.4	2.1	2.3	13.0
3/2/15 22:47	37.093	-97.777	2.1	1.4	0.9	15.4
3/3/15 0:24	37.322	-97.470	0.6	2.5	2.9	12.4
3/3/15 2:09	37.353	-97.555	0.8	5.6	6.2	14.6
3/3/15 5:10	37.242	-98.032	2.6	1.9	1.4	18.8
3/3/15 5:41	37.247	-98.035	2.5	1.3	1.0	18.3
3/3/15 15:56	37.201	-97.899	2.8	1.1	0.8	18.8
3/3/15 16:03	37.198	-97.894	1.9	1.3	1.0	15.6
3/3/15 16:46	37.204	-97.897	1.4	2.2	1.5	14.0
3/3/15 16:57	37.288	-97.614	0.9	2.7	3.5	12.8
3/3/15 22:55	37.098	-97.772	1.7	2.4	2.5	13.9
3/3/15 23:01	37.014	-97.635	1.7	3.6	2.5	13.9
3/4/15 18:27	37.258	-98.029	1.7	1.7	1.3	14.9
3/4/15 18:42	37.368	-97.789	1.1	2.0	2.7	12.2
3/4/15 18:58	37.207	-97.878	1.5	1.6	2.3	14.3
3/4/15 23:27	37.254	-97.589	1.0	1.8	2.2	12.0
3/5/15 1:46	37.101	-97.850	2.5	2.1	1.2	17.3
3/5/15 2:25	37.136	-98.000	1.6	3.9	2.1	15.6
3/5/15 6:03	37.102	-98.003	2.7	1.4	0.9	18.3
3/5/15 6:51	37.109	-97.834	1.0	3.1	3.8	13.0
3/5/15 8:28	37.116	-97.990	1.8	1.6	1.1	16.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
3/5/15 9:05	37.200	-97.889	2.7	2.0	1.4	18.3
3/5/15 12:41	37.057	-97.740	1.8	2.5	2.6	16.2
3/5/15 13:16	37.262	-98.004	1.9	1.4	1.0	17.6
3/5/15 14:36	37.110	-97.994	1.4	2.2	1.8	15.0
3/5/15 14:58	37.215	-97.894	1.4	1.4	1.1	15.0
3/5/15 16:19	37.260	-98.001	2.2	1.4	1.0	17.8
3/5/15 16:33	37.136	-97.777	1.3	1.8	1.6	16.7
3/5/15 19:50	37.025	-97.948	2.0	4.3	2.2	15.0
3/5/15 20:08	37.379	-97.764	1.3	1.5	1.7	12.7
3/6/15 2:53	37.122	-97.791	1.6	2.5	2.0	17.6
3/6/15 4:40	37.183	-98.109	1.7	1.7	1.1	13.9
3/6/15 8:34	37.264	-97.991	1.9	1.1	0.8	16.6
3/6/15 12:04	37.215	-97.895	1.8	3.5	2.7	16.2
3/6/15 15:47	37.127	-97.788	1.8	1.7	1.4	18.2
3/6/15 16:13	37.222	-97.717	1.6	3.8	3.0	11.6
3/6/15 18:19	37.170	-97.984	1.5	2.9	1.7	15.3
3/6/15 22:46	37.102	-97.843	1.1	3.3	2.0	16.2
3/6/15 22:55	37.088	-97.849	1.7	2.5	1.8	17.9
3/6/15 23:08	37.083	-97.850	2.2	3.2	1.9	17.8
3/7/15 2:25	37.146	-98.010	1.7	2.8	1.8	15.9
3/7/15 5:35	37.090	-97.708	2.0	1.3	0.9	19.0
3/7/15 5:42	37.062	-97.716	1.9	1.4	1.0	17.6
3/7/15 9:09	37.083	-97.713	1.5	3.9	3.1	16.3
3/7/15 9:39	37.075	-97.888	1.3	2.5	1.9	16.7
3/7/15 10:32	37.115	-97.825	1.2	1.9	1.5	16.4
3/7/15 11:40	37.077	-97.898	1.5	1.7	1.1	17.3
3/7/15 15:40	37.156	-97.638	1.8	1.7	1.4	16.2
3/7/15 16:19	37.056	-97.888	2.2	1.9	1.3	17.8
3/7/15 18:15	37.071	-97.877	1.7	1.2	0.7	17.9
3/7/15 19:03	37.096	-98.021	1.5	3.1	3.9	14.3
3/8/15 2:50	37.160	-97.639	1.7	4.2	4.2	14.9
3/8/15 4:24	37.079	-97.894	2.3	1.6	1.1	19.3
3/8/15 4:48	37.012	-97.587	0.9	3.3	2.8	11.8
3/8/15 8:36	37.270	-97.633	2.2	1.9	1.5	14.8
3/8/15 18:40	37.113	-98.087	2.6	1.0	0.7	18.8
3/8/15 21:20	37.226	-97.518	1.1	1.4	1.4	12.2
3/8/15 22:37	37.160	-97.776	1.1	4.9	6.9	12.2
3/9/15 2:00	37.090	-97.901	2.0	1.8	1.1	18.0
3/9/15 2:42	37.081	-97.900	1.9	1.9	1.3	17.6
3/9/15 3:16	37.213	-97.993	1.8	1.9	1.8	15.2
3/9/15 5:52	37.097	-97.684	1.7	2.2	1.9	14.9
3/9/15 9:43	37.197	-97.899	2.4	1.4	1.0	16.8
3/9/15 10:29	37.102	-97.631	1.2	1.3	1.3	13.4
3/9/15 11:07	37.096	-97.849	1.9	1.5	1.5	16.6
3/9/15 11:24	37.198	-97.906	1.3	1.2	1.1	14.7
3/9/15 23:45	37.205	-97.893	0.9	1.3	1.9	12.8
3/10/15 7:52	37.240	-98.021	1.7	2.0	1.4	13.9
3/10/15 14:17	37.268	-97.879	1.5	2.8	2.2	13.3
3/10/15 20:09	37.087	-97.884	1.5	1.3	0.9	14.3
3/11/15 2:52	37.132	-98.111	1.9	4.3	3.0	14.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
3/11/15 4:32	37.261	-97.640	1.3	2.3	1.8	12.7
3/11/15 6:45	37.081	-97.639	1.7	1.7	1.2	13.9
3/11/15 10:28	37.189	-97.787	1.6	3.0	2.7	13.6
3/11/15 12:06	37.087	-97.869	1.5	2.5	2.0	15.3
3/11/15 13:05	37.084	-97.900	2.6	1.6	1.1	18.8
3/11/15 15:46	37.094	-97.848	2.3	2.2	1.6	18.3
3/11/15 18:49	37.338	-98.051	0.9	3.8	5.5	11.8
3/12/15 5:48	37.421	-97.971	2.0	3.0	2.6	7.0
3/12/15 7:07	37.222	-97.520	0.8	1.0	1.0	11.6
3/12/15 8:00	37.083	-97.885	1.9	2.1	1.9	18.6
3/12/15 12:17	37.201	-97.895	1.5	1.2	0.9	13.3
3/12/15 17:41	37.095	-97.877	1.7	2.1	1.6	15.9
3/13/15 2:33	37.139	-97.818	2.2	3.0	2.2	17.8
3/13/15 3:11	37.002	-97.574	1.8	2.0	1.2	16.2
3/13/15 3:27	37.003	-97.582	1.3	2.2	1.5	13.7
3/13/15 6:22	37.114	-97.632	1.7	2.1	2.0	13.9
3/13/15 8:43	37.003	-97.656	2.0	3.4	2.5	15.0
3/13/15 9:18	37.261	-98.781	1.7	2.1	1.4	7.9
3/13/15 11:52	37.043	-97.815	1.7	4.9	5.9	17.9
3/13/15 14:58	37.223	-97.523	1.2	1.7	1.8	12.4
3/13/15 17:36	37.139	-98.009	1.3	1.2	1.1	12.7
3/13/15 20:00	37.215	-97.873	2.1	6.9	9.9	15.4
3/13/15 21:16	37.090	-97.848	1.6	2.1	1.4	17.6
3/13/15 23:47	37.086	-97.861	2.0	2.0	1.5	19.0
3/13/15 23:50	37.082	-97.860	1.5	2.7	2.1	17.3
3/14/15 4:37	37.105	-97.840	1.4	1.0	0.8	17.0
3/14/15 5:16	37.100	-97.836	1.8	2.0	1.5	18.2
3/14/15 8:27	37.087	-97.836	2.0	2.6	1.9	19.0
3/14/15 12:20	37.113	-97.820	1.8	1.3	1.1	18.2
3/14/15 13:10	37.095	-97.645	2.1	2.3	1.7	15.4
3/14/15 14:56	37.046	-97.930	2.2	1.8	1.2	17.8
3/14/15 19:17	37.042	-97.966	1.3	1.4	0.8	12.7
3/15/15 1:18	37.087	-97.604	1.9	1.5	1.0	15.6
3/15/15 4:01	37.177	-97.947	1.7	2.2	3.3	13.9
3/15/15 8:23	37.650	-97.766	1.3	5.5	4.3	5.7
3/15/15 9:29	37.651	-97.755	1.2	6.4	4.6	7.4
3/15/15 10:29	37.563	-97.833	0.5	3.2	2.2	3.3
3/15/15 18:04	37.129	-97.765	1.4	2.8	2.2	13.0
3/15/15 19:13	37.151	-98.795	1.3	1.9	2.2	4.7
3/15/15 20:40	37.067	-97.876	1.5	1.4	1.1	14.3
3/15/15 21:37	37.115	-97.613	1.3	2.2	1.6	12.7
3/16/15 1:51	37.284	-97.612	0.6	2.9	3.8	11.4
3/16/15 5:48	37.205	-97.901	3.2	1.2	1.0	23.2
3/16/15 6:13	37.201	-97.892	2.9	1.4	1.3	20.4
3/16/15 6:41	37.276	-97.623	1.9	1.5	1.1	15.6
3/16/15 12:45	37.274	-97.571	1.5	4.1	5.0	14.3
3/16/15 16:43	37.037	-97.838	1.8	5.4	6.7	18.2
3/16/15 20:42	37.006	-97.784	1.3	4.9	3.0	16.7
3/16/15 21:58	37.037	-97.832	1.8	1.9	1.4	17.2
3/16/15 23:10	37.019	-97.823	1.4	1.7	1.1	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
3/17/15 3:48	37.255	-98.013	1.9	2.1	1.6	15.6
3/17/15 3:56	37.140	-97.649	1.5	1.1	0.8	13.3
3/17/15 5:23	37.022	-97.825	1.0	3.8	4.1	14.0
3/17/15 5:50	37.038	-97.823	2.8	1.9	1.2	18.8
3/17/15 10:35	37.184	-98.006	1.9	2.7	4.1	15.6
3/18/15 4:36	37.083	-97.994	1.9	1.8	2.4	14.6
3/18/15 9:09	37.355	-97.836	1.8	1.8	2.2	14.2
3/18/15 23:57	37.265	-97.981	1.3	2.4	2.0	12.7
3/19/15 0:00	37.096	-97.856	2.0	2.4	1.7	16.0
3/19/15 1:25	37.082	-97.864	2.7	1.3	0.8	19.3
3/19/15 7:30	37.047	-97.944	2.0	2.2	1.7	19.0
3/19/15 7:33	37.042	-97.957	2.2	2.4	1.5	19.8
3/19/15 7:55	37.091	-97.988	1.7	2.6	3.0	17.9
3/19/15 7:55	37.091	-98.025	1.7	2.6	1.3	17.9
3/19/15 10:37	37.157	-98.077	1.9	3.5	1.9	18.6
3/19/15 12:30	37.311	-97.583	2.0	2.9	2.5	14.0
3/19/15 23:30	37.224	-97.767	1.3	5.2	6.9	13.7
3/20/15 2:12	37.197	-97.978	1.8	3.1	2.4	15.2
3/20/15 2:45	37.072	-97.970	1.9	2.6	1.9	18.6
3/20/15 3:09	37.270	-97.629	1.2	1.3	1.7	13.4
3/20/15 3:34	37.063	-97.860	1.5	2.3	1.8	14.3
3/20/15 3:41	37.088	-98.033	1.7	2.0	1.4	17.9
3/20/15 4:02	37.093	-98.031	1.6	1.0	0.7	17.6
3/20/15 4:19	37.085	-98.020	1.8	2.5	1.7	18.2
3/20/15 9:44	37.076	-97.866	2.1	2.4	2.3	16.4
3/20/15 10:41	37.267	-97.657	1.2	3.3	3.0	13.4
3/20/15 17:08	37.227	-98.016	1.6	1.7	1.4	14.6
3/20/15 21:01	37.229	-97.876	2.0	1.1	1.2	17.0
3/20/15 21:30	37.233	-97.863	1.6	2.9	4.9	16.6
3/21/15 2:53	37.201	-97.907	1.6	1.4	1.0	15.6
3/21/15 9:29	37.199	-98.011	2.7	1.4	0.9	19.3
3/21/15 12:18	37.045	-97.759	1.9	1.4	0.9	17.6
3/21/15 14:51	37.078	-97.829	2.0	2.6	2.3	19.0
3/21/15 22:02	37.086	-97.872	1.8	1.8	1.4	18.2
3/21/15 23:15	37.061	-97.851	2.5	1.9	1.2	18.3
3/22/15 8:08	37.063	-97.857	1.9	1.5	1.0	18.6
3/22/15 8:25	37.160	-97.801	2.1	1.2	1.0	17.4
3/22/15 10:44	37.077	-97.849	1.8	2.1	1.3	18.2
3/22/15 13:49	37.184	-97.831	1.5	3.0	2.6	13.3
3/22/15 18:27	37.079	-97.881	1.9	2.9	4.0	18.6
3/22/15 23:49	37.075	-97.863	2.0	1.7	1.3	19.0
3/23/15 0:13	37.007	-97.484	1.7	1.7	1.2	15.9
3/23/15 1:45	37.065	-97.899	1.6	2.8	2.0	17.6
3/23/15 3:00	37.274	-97.907	1.9	2.2	1.9	14.6
3/23/15 8:04	37.084	-97.822	2.1	2.4	1.8	19.4
3/23/15 10:36	37.087	-97.477	1.5	2.9	2.3	11.3
3/23/15 11:04	37.083	-97.482	1.2	2.1	1.8	12.4
3/23/15 21:52	37.158	-98.005	2.0	1.3	1.3	15.0
3/24/15 3:17	37.093	-97.634	1.6	2.0	2.0	17.6
3/24/15 4:29	37.208	-97.888	1.5	1.4	1.2	15.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
3/24/15 5:05	37.039	-97.908	1.9	2.1	1.4	17.6
3/24/15 5:55	37.234	-98.071	1.6	3.7	2.8	14.6
3/24/15 9:24	37.100	-97.613	1.3	2.5	2.0	16.7
3/24/15 10:36	37.069	-97.847	1.8	1.4	1.0	17.2
3/24/15 13:20	37.296	-97.595	1.4	1.6	1.8	13.0
3/24/15 14:39	37.266	-97.974	1.7	3.5	5.0	17.9
3/24/15 15:31	37.105	-97.673	2.9	1.4	1.1	21.4
3/24/15 15:36	37.096	-97.669	2.8	1.9	0.9	20.8
3/24/15 15:39	37.091	-97.656	1.7	4.2	4.2	17.9
3/24/15 16:11	37.184	-97.940	2.1	2.5	2.7	18.4
3/24/15 16:41	37.118	-97.638	1.4	1.8	2.1	17.0
3/24/15 17:01	37.073	-97.640	2.1	5.1	5.8	18.4
3/24/15 19:29	37.241	-97.889	1.6	1.0	1.1	17.6
3/24/15 22:04	37.094	-97.687	1.9	4.2	3.8	18.6
3/24/15 23:18	37.080	-97.673	1.8	2.1	1.9	18.2
3/25/15 0:07	37.118	-97.633	1.9	1.5	1.8	18.6
3/25/15 1:59	37.185	-98.044	2.4	3.3	2.3	18.8
3/25/15 2:29	37.096	-97.671	1.8	1.0	0.8	18.2
3/25/15 2:50	37.249	-97.922	1.7	2.7	1.8	17.9
3/25/15 3:08	37.029	-97.947	1.7	2.9	1.8	14.9
3/25/15 4:43	37.184	-98.107	2.5	3.9	3.9	20.3
3/25/15 5:45	37.100	-97.835	1.5	2.7	1.7	16.3
3/25/15 6:23	37.074	-97.845	2.3	1.7	1.2	18.3
3/25/15 7:30	37.263	-97.968	1.7	2.2	2.3	17.9
3/25/15 7:34	37.128	-97.620	2.1	3.1	3.7	18.4
3/25/15 19:25	37.146	-98.033	2.0	3.9	2.9	17.0
3/25/15 21:16	37.100	-97.627	1.5	2.0	2.3	17.3
3/25/15 21:54	37.081	-97.846	1.7	3.0	3.7	16.9
3/26/15 1:57	37.068	-97.843	1.8	2.3	1.7	18.2
3/26/15 8:02	37.253	-97.999	2.3	3.0	2.4	18.3
3/26/15 8:36	37.061	-97.741	1.8	2.1	1.3	17.2
3/26/15 11:25	37.234	-98.026	2.0	1.8	1.6	19.0
3/26/15 13:44	37.242	-97.649	2.4	1.5	1.2	16.8
3/26/15 18:22	37.221	-98.051	0.9	2.5	2.3	11.8
3/26/15 18:22	37.223	-98.004	2.3	3.4	2.1	20.3
3/26/15 19:36	37.515	-97.827	0.9	2.1	2.4	5.8
3/26/15 21:52	37.103	-97.666	2.3	2.6	2.5	16.3
3/26/15 23:41	37.094	-98.038	1.5	2.3	1.2	14.3
3/27/15 3:45	37.207	-98.018	2.0	2.0	1.4	19.0
3/27/15 4:12	37.065	-98.269	2.2	2.6	1.5	7.8
3/27/15 6:40	37.090	-97.487	2.4	2.2	1.7	14.8
3/27/15 10:05	37.261	-97.980	1.8	4.6	3.7	18.2
3/27/15 12:04	37.157	-98.003	2.2	1.5	1.1	18.8
3/27/15 15:57	37.342	-98.164	2.0	1.4	1.5	9.0
3/27/15 19:59	37.263	-97.973	1.9	5.6	8.1	16.6
3/27/15 20:20	37.072	-97.935	2.1	1.4	0.8	16.4
3/27/15 21:15	37.106	-98.034	2.2	2.0	1.3	17.8
3/27/15 21:56	37.158	-98.022	1.7	2.5	2.4	16.9
3/28/15 0:44	37.288	-98.704	2.3	0.7	1.0	10.3
3/28/15 5:58	37.613	-97.747	1.5	4.9	3.8	11.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
3/28/15 9:08	37.119	-97.599	0.6	3.3	3.1	11.4
3/28/15 10:58	37.174	-97.960	1.5	1.8	1.9	16.3
3/28/15 19:41	37.132	-97.555	1.6	3.2	3.1	15.6
3/28/15 20:40	37.262	-97.672	1.3	1.3	1.3	12.7
3/29/15 1:13	37.194	-97.909	2.0	1.2	1.1	19.0
3/29/15 1:43	37.141	-97.557	1.5	2.3	2.7	15.3
3/29/15 2:11	37.223	-97.902	1.9	3.7	3.4	18.6
3/29/15 10:09	37.096	-97.562	1.6	5.6	3.5	15.6
3/29/15 13:56	37.264	-97.887	1.9	5.3	3.8	17.6
3/29/15 22:14	37.207	-97.885	2.3	1.2	1.0	19.3
3/29/15 22:53	37.244	-97.569	1.2	1.3	1.6	12.4
3/29/15 23:26	37.066	-97.934	2.2	1.8	1.2	16.8
3/29/15 23:58	37.291	-98.808	1.9	1.8	1.3	10.6
3/30/15 1:34	37.334	-97.491	1.0	2.7	2.9	11.0
3/30/15 1:42	37.322	-97.499	1.4	1.2	1.1	14.0
3/30/15 3:30	37.061	-97.929	2.1	1.7	0.9	16.4
3/30/15 22:00	37.215	-98.010	1.3	1.5	2.8	12.7
3/30/15 23:07	37.187	-98.020	2.3	4.6	3.0	19.3
3/30/15 23:44	37.252	-98.019	2.0	2.6	1.4	17.0
3/31/15 8:31	37.144	-98.035	1.9	6.1	4.5	17.6
3/31/15 9:43	37.207	-98.863	2.2	6.6	4.2	11.8
3/31/15 12:47	37.288	-97.567	0.7	2.2	2.1	13.5
3/31/15 13:49	37.276	-97.606	1.2	5.3	5.8	15.4
3/31/15 14:03	37.281	-97.575	1.4	3.0	3.7	16.0
3/31/15 15:11	37.337	-97.584	1.0	2.1	2.0	15.0
3/31/15 16:07	37.057	-97.851	1.7	2.4	2.3	15.9
3/31/15 18:44	37.648	-97.762	2.0	6.7	5.9	13.0
3/31/15 21:27	37.199	-97.886	1.8	1.4	1.1	15.2
3/31/15 23:45	37.195	-98.009	1.9	2.3	1.5	18.6
4/1/15 1:34	37.055	-98.133	1.8	4.2	3.0	14.2
4/1/15 2:14	37.290	-97.629	1.8	2.3	2.6	15.2
4/1/15 5:33	37.120	-97.603	1.8	2.4	2.3	14.2
4/1/15 5:48	37.093	-97.843	2.0	1.5	0.9	17.0
4/1/15 7:20	37.190	-97.957	1.9	4.5	4.3	18.6
4/1/15 7:53	37.083	-97.837	0.9	2.4	2.2	11.8
4/2/15 1:07	37.052	-97.811	2.2	2.0	1.7	16.8
4/2/15 11:13	37.067	-97.844	1.6	4.1	5.3	14.6
4/2/15 13:18	37.242	-97.988	1.5	3.8	2.4	16.3
4/2/15 13:41	37.204	-98.021	1.9	2.3	1.5	16.6
4/2/15 14:55	37.117	-97.653	1.4	8.0	7.2	13.0
4/3/15 3:37	37.232	-97.858	2.0	4.0	2.8	15.0
4/3/15 4:38	37.253	-97.669	2.3	1.9	1.6	16.3
4/3/15 6:28	37.203	-97.994	1.1	2.4	4.4	15.2
4/3/15 9:01	37.087	-97.865	2.4	1.5	1.1	17.8
4/3/15 14:48	37.120	-97.870	1.8	3.3	3.9	15.2
4/3/15 16:18	37.087	-97.874	2.1	1.8	1.6	17.4
4/3/15 18:56	37.260	-98.016	2.0	1.7	0.9	19.0
4/3/15 20:40	37.081	-98.049	1.9	2.9	2.0	14.6
4/3/15 21:14	37.248	-98.026	1.6	1.0	0.8	17.6
4/4/15 1:29	37.268	-97.987	1.2	1.4	2.3	16.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
4/4/15 3:29	37.247	-98.022	1.9	2.0	1.7	18.6
4/4/15 6:15	37.258	-97.995	1.9	1.7	2.3	18.6
4/4/15 8:39	37.221	-97.883	1.4	1.9	2.4	15.0
4/4/15 11:11	37.256	-97.908	1.9	1.3	1.0	18.6
4/4/15 11:17	37.198	-98.010	1.7	3.1	2.4	17.9
4/4/15 17:47	37.203	-98.025	2.1	1.8	1.2	19.4
4/4/15 18:54	37.210	-97.966	2.2	1.9	1.1	19.8
4/4/15 19:44	37.212	-97.992	1.9	1.6	3.0	18.6
4/4/15 20:12	37.228	-97.898	1.9	1.9	2.7	18.6
4/4/15 21:56	37.112	-97.855	1.3	2.6	3.5	12.7
4/4/15 23:18	37.231	-98.024	1.5	4.5	3.7	17.3
4/5/15 5:37	37.198	-98.027	2.1	1.6	1.1	19.4
4/5/15 5:58	37.217	-97.999	1.9	1.4	1.1	18.6
4/5/15 6:30	37.125	-97.553	1.8	1.9	1.7	14.2
4/5/15 8:53	37.201	-98.023	2.3	1.9	1.2	20.3
4/5/15 9:03	37.204	-97.883	1.9	1.3	1.2	17.6
4/5/15 11:32	37.269	-97.998	1.5	2.8	2.3	17.3
4/5/15 14:02	37.091	-98.227	2.5	4.4	2.5	14.3
4/5/15 15:28	37.400	-98.208	1.3	4.4	2.8	6.7
4/5/15 21:10	37.201	-98.010	2.2	2.8	2.2	19.8
4/5/15 22:19	37.199	-98.023	2.0	3.5	2.7	19.0
4/6/15 1:33	37.091	-98.038	2.4	1.5	1.0	18.8
4/6/15 1:45	37.200	-97.994	2.3	2.8	2.1	20.3
4/6/15 7:17	37.068	-97.850	2.0	2.8	3.3	15.0
4/6/15 8:03	37.224	-98.041	2.0	3.3	3.5	19.0
4/6/15 12:58	37.307	-97.585	1.4	2.9	4.2	14.0
4/6/15 16:20	37.171	-98.005	1.9	4.4	3.4	18.6
4/7/15 1:32	37.109	-97.984	2.0	1.4	1.9	19.0
4/7/15 4:40	37.012	-98.057	2.3	3.3	2.4	16.3
4/7/15 5:30	37.245	-97.965	2.2	1.3	1.1	19.8
4/7/15 6:27	37.246	-97.962	1.8	2.5	1.9	18.2
4/7/15 6:46	37.409	-98.051	1.6	2.2	1.8	9.6
4/7/15 6:51	37.233	-97.983	1.9	2.1	1.6	18.6
4/7/15 9:50	37.343	-97.564	1.4	2.5	3.2	14.0
4/7/15 14:46	37.112	-97.999	1.8	2.3	1.3	18.2
4/7/15 21:35	37.118	-98.042	2.1	3.7	1.5	19.4
4/8/15 0:04	37.006	-97.904	2.2	5.5	6.4	15.8
4/8/15 3:57	37.125	-98.049	1.8	2.3	1.6	18.2
4/8/15 8:30	37.243	-98.008	2.1	4.3	3.4	17.4
4/8/15 9:04	37.201	-97.985	2.0	2.5	2.0	18.0
4/8/15 13:18	37.114	-98.075	2.3	1.3	1.0	20.3
4/8/15 13:53	37.145	-98.045	2.4	3.2	1.2	20.8
4/8/15 15:32	37.216	-97.926	2.3	2.2	1.7	18.3
4/9/15 0:26	37.103	-98.070	1.9	4.8	4.0	17.6
4/9/15 3:31	37.416	-97.980	2.1	0.9	0.7	11.4
4/9/15 10:01	37.065	-97.629	2.2	6.1	5.8	16.8
4/9/15 15:14	37.106	-97.725	2.0	2.5	1.7	19.0
4/9/15 17:03	37.059	-97.900	1.5	5.0	4.1	14.3
4/9/15 17:04	37.217	-97.658	1.6	4.9	3.5	13.6
4/9/15 18:03	37.039	-97.902	2.1	3.2	2.1	18.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
4/9/15 20:49	37.077	-97.927	2.1	3.5	2.3	19.4
4/10/15 0:09	37.128	-97.835	2.1	4.7	3.5	19.4
4/10/15 0:46	37.085	-97.917	2.2	3.7	2.5	19.8
4/10/15 2:04	37.126	-97.939	2.2	3.9	3.0	19.8
4/10/15 4:40	37.112	-97.658	2.1	1.3	1.1	18.4
4/10/15 4:56	37.085	-97.940	2.4	4.1	2.4	20.8
4/10/15 5:29	37.091	-97.779	1.8	4.9	3.6	18.2
4/10/15 5:48	37.117	-97.777	1.7	1.2	1.0	17.9
4/10/15 6:06	37.084	-97.777	2.0	2.7	1.9	19.0
4/10/15 6:14	37.090	-97.770	1.8	3.9	2.6	18.2
4/10/15 6:18	37.100	-97.788	1.8	1.5	1.1	18.2
4/10/15 6:23	37.085	-97.773	1.9	5.9	4.2	18.6
4/10/15 6:40	37.075	-97.803	2.0	3.1	2.3	19.0
4/10/15 7:01	37.100	-97.787	1.8	2.4	1.7	18.2
4/10/15 7:04	37.089	-97.793	1.9	2.6	1.9	18.6
4/10/15 7:41	37.080	-97.797	2.1	4.3	4.4	19.4
4/10/15 8:14	37.435	-99.064	1.5	1.3	5.0	5.3
4/10/15 8:21	37.308	-98.733	1.5	4.2	3.6	11.3
4/10/15 15:18	37.110	-97.696	2.0	3.0	4.1	19.0
4/10/15 19:33	37.250	-98.014	1.9	2.6	1.5	14.6
4/10/15 20:10	37.269	-97.862	2.0	4.6	3.5	15.0
4/11/15 1:38	37.199	-97.879	1.4	2.4	1.8	15.0
4/11/15 4:10	37.127	-97.864	1.7	1.1	0.9	17.9
4/11/15 9:25	37.064	-97.918	1.7	1.0	0.8	16.9
4/11/15 14:05	37.126	-97.607	1.8	3.9	3.9	15.2
4/11/15 16:55	37.017	-98.000	1.6	4.5	6.6	16.6
4/11/15 21:57	37.201	-97.882	1.5	1.7	2.8	15.3
4/11/15 21:58	37.047	-97.925	1.4	3.1	2.0	17.0
4/12/15 3:49	37.198	-97.905	2.2	1.7	1.3	17.8
4/12/15 7:47	37.002	-97.797	2.1	2.1	1.1	15.4
4/12/15 8:38	37.203	-97.910	2.2	1.2	0.9	17.8
4/12/15 9:15	37.208	-97.895	2.1	1.3	1.0	17.4
4/12/15 12:37	37.075	-97.859	1.7	1.5	1.0	15.9
4/12/15 12:50	37.058	-97.912	1.7	1.1	0.8	16.9
4/13/15 0:34	37.002	-97.591	1.8	1.8	1.2	14.2
4/14/15 2:20	37.336	-97.996	1.8	5.1	4.0	14.2
4/14/15 7:22	37.092	-98.036	1.5	2.9	1.6	14.3
4/14/15 18:22	37.162	-97.801	2.0	1.7	1.3	17.0
4/14/15 19:25	37.239	-97.413	1.4	1.1	1.7	5.0
4/15/15 0:45	37.059	-98.024	1.8	3.2	1.7	16.2
4/15/15 1:19	37.109	-97.565	1.0	5.3	4.6	12.0
4/15/15 8:07	37.036	-97.798	1.5	4.6	4.3	16.3
4/15/15 9:24	37.273	-97.926	2.0	2.6	2.2	15.0
4/15/15 12:05	37.132	-97.771	1.6	3.3	2.2	16.6
4/15/15 12:18	37.076	-97.802	1.9	1.6	1.5	18.6
4/15/15 14:07	37.139	-98.006	1.6	2.0	1.1	15.6
4/15/15 15:30	37.224	-98.049	2.6	1.5	1.0	17.8
4/15/15 19:53	37.093	-97.850	2.0	1.7	1.2	19.0
4/15/15 21:50	37.067	-97.911	1.8	3.0	2.3	18.2
4/16/15 1:56	37.078	-97.962	2.0	3.5	2.2	19.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
4/16/15 3:27	37.012	-97.760	1.8	7.4	5.1	17.2
4/16/15 4:01	37.042	-97.969	2.1	1.9	1.4	19.4
4/16/15 5:06	37.132	-97.589	1.8	2.9	2.9	14.2
4/16/15 5:36	37.060	-97.921	2.3	2.7	1.9	20.3
4/16/15 5:39	37.061	-97.918	2.4	2.3	1.5	20.8
4/16/15 14:31	37.076	-97.889	1.7	1.3	1.0	17.9
4/16/15 17:05	37.003	-98.044	2.2	2.1	1.1	16.8
4/16/15 17:53	37.066	-97.915	1.6	4.3	3.3	17.6
4/16/15 18:30	37.030	-97.847	1.7	4.1	2.5	17.9
4/17/15 4:22	37.000	-97.604	1.7	1.8	1.5	11.9
4/17/15 7:42	37.165	-97.955	1.5	3.1	2.3	14.3
4/17/15 12:57	37.102	-97.847	1.3	2.8	2.5	15.7
4/17/15 13:10	37.099	-98.038	2.1	1.7	1.1	16.4
4/17/15 18:57	37.217	-97.889	1.6	4.6	6.7	15.6
4/18/15 2:52	37.182	-97.794	1.8	2.6	2.0	15.2
4/18/15 10:35	37.109	-98.779	1.8	3.5	2.3	6.2
4/18/15 11:30	37.097	-98.033	2.3	1.8	1.2	19.3
4/18/15 16:08	37.311	-97.449	0.7	2.3	2.8	10.5
4/18/15 20:09	37.314	-97.459	0.3	1.3	1.4	12.1
4/19/15 3:30	37.204	-98.008	2.3	1.8	1.2	17.3
4/19/15 7:20	37.193	-97.557	2.3	4.2	3.7	15.3
4/19/15 7:22	37.108	-98.037	2.3	3.4	2.1	17.3
4/19/15 10:48	37.239	-97.741	1.7	3.2	4.9	13.9
4/19/15 10:50	37.014	-98.048	1.8	8.0	5.6	15.2
4/19/15 12:21	37.243	-97.979	1.8	1.5	1.0	16.2
4/19/15 12:51	37.086	-97.785	1.8	3.4	3.1	18.2
4/19/15 13:55	37.082	-97.788	2.2	2.4	2.2	19.8
4/19/15 14:00	37.085	-97.791	1.9	2.8	2.5	18.6
4/19/15 14:08	37.257	-97.951	1.7	2.2	1.8	14.9
4/19/15 22:34	37.063	-97.934	2.6	2.0	1.3	17.8
4/19/15 23:52	37.079	-97.839	1.8	2.8	2.3	18.2
4/20/15 2:40	37.070	-97.791	2.1	2.9	1.7	19.4
4/20/15 3:38	37.091	-97.799	2.2	2.0	1.6	19.8
4/20/15 6:53	37.082	-97.790	2.2	1.3	0.9	19.8
4/20/15 11:45	37.144	-97.551	1.5	1.8	2.1	14.3
4/20/15 13:48	37.076	-97.805	2.0	4.5	5.1	19.0
4/20/15 15:04	37.072	-97.809	2.2	4.4	3.1	19.8
4/20/15 16:46	37.099	-97.594	1.2	1.9	1.9	13.4
4/20/15 17:37	37.068	-97.811	2.2	2.1	1.2	19.8
4/20/15 21:06	37.245	-97.981	2.2	2.9	1.9	16.8
4/20/15 21:30	37.011	-97.602	1.7	2.4	1.9	13.9
4/20/15 23:01	37.062	-97.817	2.3	1.9	1.5	20.3
4/20/15 23:39	37.134	-97.905	1.3	6.0	9.0	14.7
4/21/15 1:38	37.108	-97.830	1.4	3.0	1.8	15.0
4/21/15 2:04	37.013	-97.590	2.2	2.7	2.3	15.8
4/21/15 2:52	37.072	-97.800	2.0	1.2	1.2	19.0
4/21/15 3:55	37.133	-97.789	1.9	3.8	2.8	18.6
4/21/15 6:23	37.265	-97.997	2.0	4.0	2.3	17.0
4/21/15 10:06	37.196	-97.880	2.2	1.5	1.0	16.8
4/21/15 11:03	37.089	-97.842	2.4	1.3	1.0	20.8

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
4/21/15 11:17	37.109	-97.595	2.2	1.6	1.0	15.8
4/21/15 16:36	37.094	-98.010	2.2	6.1	3.2	17.8
4/22/15 1:37	37.080	-98.189	2.5	3.0	1.3	18.3
4/22/15 2:37	37.107	-98.159	1.9	2.6	2.4	16.6
4/22/15 2:40	37.092	-98.198	2.1	2.9	1.6	18.4
4/22/15 2:42	37.099	-98.206	2.1	2.2	1.2	18.4
4/22/15 4:31	37.239	-97.963	2.2	1.0	0.7	17.8
4/22/15 7:37	37.096	-98.038	2.1	2.1	1.3	16.4
4/22/15 12:03	37.003	-97.589	2.2	2.0	1.6	15.8
4/22/15 13:48	37.059	-97.924	2.4	2.3	1.4	18.8
4/23/15 0:37	37.167	-98.808	2.2	3.6	2.4	11.8
4/23/15 3:36	37.021	-97.933	2.4	2.9	2.1	18.8
4/23/15 8:15	37.277	-97.488	0.6	0.6	0.8	11.4
4/23/15 17:30	37.489	-97.988	1.8	6.1	1.9	8.2
4/23/15 18:05	37.099	-98.035	2.5	2.3	1.4	18.3
4/23/15 19:26	37.578	-97.753	1.9	4.3	3.2	12.6
4/23/15 19:35	37.551	-97.758	1.2	2.3	2.1	10.4
4/23/15 20:09	37.233	-97.873	2.2	2.1	1.5	18.8
4/24/15 1:15	37.025	-97.943	2.1	1.9	1.8	17.4
4/24/15 3:01	37.288	-97.828	2.3	4.1	4.5	17.3
4/24/15 4:15	37.313	-97.586	1.8	2.3	2.4	17.2
4/24/15 5:03	37.289	-97.621	1.8	2.7	2.9	18.2
4/24/15 5:18	37.249	-97.940	2.1	2.2	1.3	16.4
4/24/15 5:53	37.278	-97.607	2.1	3.7	3.7	19.4
4/24/15 6:37	37.019	-97.941	2.2	2.4	1.4	16.8
4/24/15 7:23	37.332	-97.572	2.1	3.2	3.8	19.4
4/24/15 9:46	37.224	-97.629	2.1	3.0	2.5	19.4
4/24/15 9:49	37.178	-97.829	1.9	3.5	5.9	16.6
4/24/15 11:33	37.094	-98.041	2.2	2.3	1.5	16.8
4/24/15 13:17	37.147	-98.006	1.5	2.1	1.6	14.3
4/24/15 13:55	37.094	-98.018	1.7	2.8	1.5	14.9
4/24/15 16:02	37.245	-97.942	1.4	1.7	1.0	13.0
4/24/15 16:26	37.296	-97.613	2.0	1.8	1.2	19.0
4/24/15 16:30	37.302	-97.617	2.0	1.4	1.3	19.0
4/25/15 3:35	37.310	-97.608	1.8	2.6	2.4	18.2
4/25/15 6:52	37.144	-97.838	1.8	1.6	1.2	15.2
4/25/15 19:50	37.040	-97.947	1.9	3.9	2.3	15.6
4/25/15 19:50	37.082	-97.941	1.6	4.9	2.8	14.6
4/25/15 23:03	37.275	-97.639	0.7	1.8	2.5	11.5
4/26/15 1:09	37.036	-99.110	1.2	3.7	1.7	4.4
4/26/15 2:51	37.079	-97.650	1.8	4.5	3.4	14.2
4/26/15 18:52	37.069	-99.224	2.4	4.8	2.0	8.8
4/27/15 1:36	37.836	-97.897	2.2	2.7	1.7	7.8
4/27/15 1:45	37.572	-98.204	1.1	7.9	3.6	4.2
4/27/15 2:26	37.069	-97.926	2.1	4.9	4.1	15.4
4/27/15 5:22	37.077	-99.183	1.8	6.2	2.3	11.2
4/27/15 13:02	37.134	-99.218	1.0	4.5	3.3	9.0
4/27/15 14:02	37.076	-97.793	1.3	2.5	1.8	12.7
4/27/15 15:16	37.079	-97.642	1.9	2.1	1.3	17.6
4/27/15 15:38	37.071	-97.644	1.8	1.4	1.0	17.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
4/27/15 16:07	37.053	-99.179	1.7	5.3	2.4	13.9
4/27/15 23:28	37.136	-97.658	1.4	2.5	2.0	17.0
4/28/15 1:30	37.279	-97.636	1.0	4.5	4.7	14.0
4/28/15 2:22	37.062	-97.910	1.3	3.5	2.4	14.7
4/28/15 3:37	37.268	-97.637	1.3	2.4	2.7	15.7
4/28/15 6:56	37.206	-97.891	1.8	2.0	1.5	14.2
4/28/15 8:54	37.065	-99.193	1.5	6.0	2.0	15.3
4/28/15 9:49	37.204	-98.010	1.4	4.0	2.1	13.0
4/28/15 12:21	37.289	-97.640	1.3	2.6	3.3	16.7
4/28/15 14:10	37.156	-97.626	1.5	1.3	1.1	17.3
4/28/15 17:09	37.043	-97.913	2.1	3.8	2.5	19.4
4/28/15 18:00	37.079	-98.285	1.5	2.9	1.4	13.3
4/28/15 19:44	37.143	-97.644	1.6	1.5	1.2	15.6
4/28/15 20:13	37.146	-97.631	0.8	1.9	1.9	11.6
4/28/15 21:54	37.291	-97.621	1.6	1.7	1.0	16.6
4/28/15 22:19	37.030	-97.952	2.9	2.2	1.3	19.4
4/28/15 22:55	37.043	-97.942	1.9	2.3	1.5	18.6
4/28/15 23:29	37.025	-97.929	1.7	3.0	2.2	17.9
4/29/15 0:15	37.035	-97.940	1.8	3.7	2.4	18.2
4/29/15 4:40	37.285	-97.633	1.5	1.2	1.3	15.3
4/29/15 6:33	37.271	-97.758	0.8	5.7	3.5	11.6
4/29/15 7:02	37.037	-97.950	2.5	2.3	1.5	18.3
4/29/15 14:55	37.327	-97.566	0.4	2.5	3.1	11.2
4/29/15 21:02	37.207	-97.887	1.4	2.8	1.7	14.0
4/29/15 22:35	37.035	-97.946	1.8	5.6	2.4	18.2
4/30/15 3:14	37.060	-97.887	1.7	2.8	2.2	15.9
4/30/15 7:24	37.067	-99.192	1.8	4.2	1.9	14.2
4/30/15 7:53	37.318	-98.132	1.9	3.0	2.6	6.6
4/30/15 11:27	37.205	-97.989	2.3	2.2	1.3	17.3
4/30/15 11:57	37.222	-97.980	1.9	2.4	1.7	16.6
4/30/15 12:49	37.076	-97.856	1.7	2.8	1.6	15.9
4/30/15 16:17	37.092	-99.190	1.2	6.6	3.4	12.4
4/30/15 18:51	37.042	-98.007	1.9	2.5	1.4	15.6
4/30/15 19:17	37.182	-97.582	1.6	3.1	3.3	13.6
4/30/15 20:50	37.335	-97.464	0.7	8.2	9.7	11.5
5/1/15 6:51	37.228	-97.546	1.6	3.9	4.3	14.6
5/1/15 8:44	37.101	-97.550	1.2	2.2	2.1	12.4
5/2/15 0:10	37.023	-98.172	1.8	5.6	4.8	14.2
5/2/15 1:23	37.269	-97.634	1.5	1.9	1.5	15.3
5/2/15 5:35	37.245	-97.947	1.4	2.0	3.1	14.0
5/2/15 7:09	37.113	-98.050	1.3	1.8	1.1	12.7
5/2/15 8:30	37.134	-97.989	3.0	2.2	1.3	21.0
5/2/15 11:36	37.017	-97.570	1.5	2.7	2.7	13.3
5/2/15 19:17	37.070	-97.954	2.1	3.3	2.1	15.4
5/3/15 0:57	37.134	-97.654	1.8	2.4	1.7	16.2
5/3/15 1:04	37.299	-97.604	1.1	5.4	3.6	16.2
5/3/15 1:23	37.274	-97.612	1.5	2.0	1.4	17.3
5/3/15 4:51	37.214	-98.040	1.8	3.8	2.7	16.2
5/3/15 5:54	37.282	-97.613	1.9	2.1	2.1	18.6
5/3/15 6:15	37.329	-97.594	1.6	4.8	4.1	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
5/3/15 7:54	37.132	-97.595	1.4	7.7	9.1	16.0
5/3/15 12:29	37.085	-97.621	1.1	1.8	2.1	13.2
5/3/15 14:38	37.281	-97.603	1.0	1.6	2.0	16.0
5/3/15 18:02	37.286	-97.600	1.5	2.0	2.0	17.3
5/3/15 20:04	37.214	-97.986	1.6	3.2	2.6	16.6
5/3/15 21:25	37.114	-97.594	1.9	9.5	9.3	16.6
5/4/15 1:24	37.013	-97.959	1.8	2.7	1.6	14.2
5/4/15 1:26	37.278	-97.620	1.4	3.0	3.4	17.0
5/4/15 3:33	37.239	-97.820	1.5	3.3	3.0	13.3
5/4/15 6:40	37.203	-97.958	1.5	2.1	1.8	17.3
5/4/15 7:36	37.088	-98.038	2.4	1.6	0.8	16.8
5/4/15 8:26	37.384	-98.796	0.7	1.2	1.6	3.5
5/4/15 8:45	37.422	-98.908	1.2	1.3	2.3	4.4
5/4/15 16:23	37.244	-97.964	2.0	2.0	1.3	19.0
5/5/15 4:45	37.214	-97.978	2.0	3.7	3.1	19.0
5/5/15 5:04	37.216	-97.991	1.4	4.7	2.9	17.0
5/5/15 6:34	37.201	-97.925	2.0	4.2	2.8	19.0
5/5/15 6:40	37.315	-97.590	1.4	4.9	3.5	13.0
5/5/15 12:35	37.039	-97.976	1.6	1.9	1.1	13.6
5/5/15 15:04	37.228	-97.979	1.6	2.7	2.2	17.6
5/5/15 21:26	37.199	-97.893	1.7	2.9	1.9	17.9
5/5/15 21:40	37.163	-97.815	1.2	1.7	1.4	15.4
5/6/15 3:31	37.242	-98.025	2.0	2.4	1.7	19.0
5/6/15 3:34	37.267	-97.980	1.7	1.5	1.3	17.9
5/6/15 6:20	37.248	-98.018	2.4	1.5	1.0	20.8
5/6/15 7:17	37.123	-97.798	1.5	6.3	6.4	15.3
5/6/15 9:12	37.225	-98.006	1.8	3.6	5.0	18.2
5/6/15 9:12	37.258	-98.027	2.6	2.3	1.5	19.8
5/6/15 9:31	37.098	-97.767	1.8	3.0	3.0	15.2
5/6/15 10:05	37.249	-98.028	2.8	1.6	1.0	20.8
5/6/15 11:33	37.208	-97.892	1.4	2.1	1.7	17.0
5/6/15 12:21	37.104	-98.084	1.4	2.7	2.0	13.0
5/6/15 12:38	37.259	-98.017	1.9	2.5	2.0	18.6
5/6/15 13:02	37.283	-97.616	1.5	2.6	2.2	17.3
5/6/15 13:03	37.261	-98.003	1.4	2.4	1.9	17.0
5/6/15 15:28	37.197	-98.022	1.8	2.8	1.8	18.2
5/6/15 15:38	37.222	-97.992	2.3	1.6	1.1	20.3
5/6/15 16:31	37.242	-98.029	1.8	1.7	1.4	18.2
5/6/15 18:44	37.291	-97.614	1.2	3.6	2.8	16.4
5/6/15 18:46	37.279	-97.618	1.1	2.9	2.9	16.2
5/6/15 18:47	37.288	-97.617	1.3	2.8	2.6	16.7
5/6/15 18:58	37.286	-97.590	1.3	1.7	1.9	16.7
5/6/15 19:18	37.290	-97.597	0.8	1.7	1.9	15.6
5/6/15 19:19	37.287	-97.600	1.3	1.9	2.2	16.7
5/6/15 21:50	37.271	-97.610	0.8	2.5	3.6	15.6
5/6/15 21:55	37.282	-97.601	0.3	1.6	1.9	13.1
5/6/15 22:11	37.278	-97.610	1.5	1.2	0.9	17.3
5/7/15 1:45	37.076	-97.906	1.6	2.9	1.6	17.6
5/7/15 3:17	37.033	-97.937	2.0	1.9	1.3	19.0
5/7/15 3:28	37.027	-97.942	1.7	2.4	1.5	17.9

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
5/7/15 4:09	37.292	-97.589	1.3	3.5	3.9	16.7
5/7/15 6:20	37.032	-97.961	1.9	1.6	0.9	18.6
5/7/15 6:32	37.213	-97.985	1.8	2.1	1.1	18.2
5/7/15 7:00	37.230	-97.983	2.0	2.5	2.8	19.0
5/7/15 7:45	37.034	-97.958	1.9	2.4	1.8	18.6
5/7/15 10:53	37.391	-97.712	1.3	1.1	1.1	4.7
5/7/15 12:10	37.288	-97.599	1.6	1.6	1.8	17.6
5/7/15 12:31	37.428	-97.417	0.9	1.5	1.9	3.8
5/7/15 20:01	37.193	-98.023	2.3	1.7	1.1	19.3
5/8/15 2:43	37.626	-97.733	1.0	5.2	4.2	9.0
5/8/15 10:52	37.614	-97.741	1.2	2.6	2.0	11.4
5/8/15 12:03	37.203	-97.732	1.3	3.6	3.4	12.7
5/8/15 12:41	37.177	-98.005	1.5	2.9	3.8	14.3
5/8/15 13:02	37.079	-97.877	1.4	2.7	2.0	14.0
5/8/15 14:21	37.255	-98.063	1.6	1.9	1.0	15.6
5/8/15 15:53	37.245	-97.984	2.0	1.9	3.0	19.0
5/9/15 6:19	37.056	-97.812	1.8	3.0	1.5	17.2
5/9/15 8:29	37.213	-97.862	1.4	2.7	2.3	14.0
5/9/15 10:13	37.084	-97.747	1.7	1.7	1.0	14.9
5/9/15 12:09	37.287	-97.609	0.7	1.7	1.5	15.5
5/9/15 12:13	37.279	-97.615	1.3	1.7	1.4	16.7
5/9/15 12:30	37.287	-97.605	1.2	2.1	1.5	16.4
5/9/15 13:13	37.311	-97.564	1.2	2.0	2.4	16.4
5/9/15 13:20	37.252	-97.999	1.5	1.3	2.6	17.3
5/9/15 13:30	37.277	-97.614	0.7	2.3	2.9	15.5
5/9/15 13:35	37.309	-97.569	0.6	3.6	4.3	14.4
5/9/15 13:38	37.297	-97.584	1.2	2.5	3.1	16.4
5/9/15 15:29	37.269	-97.623	1.1	1.9	1.8	16.2
5/9/15 19:42	37.217	-97.881	1.8	4.5	3.0	15.2
5/9/15 20:23	37.072	-97.863	1.8	1.7	1.0	16.2
5/9/15 22:24	37.010	-97.981	1.7	2.7	1.8	14.9
5/10/15 2:36	37.188	-98.027	1.7	2.5	1.5	15.9
5/10/15 9:55	37.225	-98.048	1.5	3.1	2.5	15.3
5/10/15 12:05	37.292	-97.600	0.9	1.6	1.7	15.8
5/10/15 12:12	37.281	-97.604	1.3	1.5	1.3	16.7
5/10/15 12:34	37.104	-97.860	1.6	2.0	1.6	17.6
5/10/15 15:09	37.307	-97.572	1.2	1.4	1.7	16.4
5/10/15 19:09	37.020	-97.646	1.1	3.8	3.4	12.2
5/10/15 21:37	37.099	-97.845	1.7	2.7	2.1	17.9
5/10/15 22:11	37.046	-97.925	1.8	3.8	4.7	18.2
5/11/15 0:38	37.226	-97.808	1.9	1.8	1.9	14.6
5/11/15 3:05	37.095	-97.836	1.5	1.4	1.1	17.3
5/11/15 4:36	37.100	-97.855	1.7	3.0	2.4	17.9
5/11/15 7:38	37.266	-97.943	2.2	1.1	0.9	15.8
5/11/15 9:59	37.069	-97.855	2.1	1.2	1.0	19.4
5/11/15 11:32	37.341	-97.547	1.4	2.0	2.1	17.0
5/11/15 17:06	37.634	-97.750	1.0	5.1	4.6	12.0
5/11/15 18:55	37.369	-98.088	1.6	2.5	1.9	10.6
5/11/15 20:46	37.357	-98.077	1.8	3.3	2.3	13.2
5/11/15 21:25	37.036	-97.969	2.1	2.9	1.6	18.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
5/11/15 22:12	37.277	-97.612	1.4	1.8	1.6	17.0
5/11/15 22:18	37.283	-97.611	0.9	2.4	2.6	15.8
5/11/15 22:19	37.285	-97.600	1.0	2.1	2.2	16.0
5/12/15 1:01	37.280	-97.991	1.2	2.3	1.6	12.4
5/12/15 1:14	37.279	-97.623	1.1	1.8	1.6	16.2
5/12/15 2:29	37.038	-97.825	1.8	2.3	1.3	18.2
5/12/15 3:48	37.107	-97.841	1.6	4.1	3.3	17.6
5/12/15 5:21	37.064	-97.930	1.8	2.9	1.5	18.2
5/12/15 12:13	37.390	-97.723	1.3	2.0	2.7	6.7
5/12/15 16:57	37.271	-97.609	0.7	6.0	7.7	15.5
5/12/15 17:36	37.256	-97.913	1.8	2.2	2.0	14.2
5/12/15 18:20	37.082	-97.880	1.6	2.0	1.2	17.6
5/12/15 18:35	37.089	-97.893	1.5	3.5	2.2	17.3
5/12/15 18:45	37.093	-97.884	1.5	1.0	0.8	17.3
5/13/15 1:11	37.337	-97.565	1.2	2.0	2.4	16.4
5/13/15 2:49	37.484	-97.789	1.6	3.6	4.2	7.6
5/13/15 3:52	37.348	-97.560	0.8	4.9	5.5	14.6
5/13/15 5:12	37.347	-97.542	1.0	2.8	3.4	14.0
5/13/15 6:04	37.222	-97.593	1.9	2.4	1.8	15.6
5/13/15 18:05	37.232	-97.882	1.8	1.5	2.5	14.2
5/13/15 18:10	37.003	-97.445	1.2	3.5	2.1	4.4
5/14/15 4:50	37.273	-97.542	1.8	1.2	1.3	16.2
5/14/15 7:29	37.127	-97.844	1.9	2.1	1.7	15.6
5/14/15 10:04	37.063	-97.915	2.7	1.5	0.9	18.3
5/14/15 10:38	37.029	-97.918	1.8	4.6	3.1	15.2
5/14/15 11:12	37.271	-97.612	1.5	1.0	1.1	16.3
5/14/15 14:34	37.091	-97.884	2.3	2.2	1.5	19.3
5/14/15 15:56	37.247	-98.030	1.9	2.5	1.7	17.6
5/14/15 17:51	37.110	-97.627	1.6	1.5	1.2	17.6
5/14/15 18:32	37.246	-98.029	1.8	1.6	1.0	17.2
5/14/15 18:43	37.249	-98.036	1.7	1.9	1.4	16.9
5/14/15 23:03	37.255	-97.650	1.8	1.6	1.4	16.2
5/15/15 1:36	37.272	-97.624	1.2	2.6	2.9	14.4
5/15/15 3:37	37.135	-97.663	1.8	1.6	1.1	18.2
5/15/15 3:45	37.156	-97.640	1.7	3.1	1.4	17.9
5/15/15 5:17	37.111	-97.643	1.7	1.6	1.4	17.9
5/15/15 9:04	37.317	-98.034	1.8	3.7	2.0	17.2
5/15/15 9:18	37.137	-97.663	2.0	1.6	1.2	18.0
5/15/15 10:26	37.142	-97.655	1.7	2.6	2.0	17.9
5/15/15 11:29	37.289	-97.600	1.7	0.8	0.8	15.9
5/15/15 12:53	37.137	-97.652	1.7	2.7	2.1	17.9
5/15/15 15:23	37.213	-97.903	1.9	0.9	0.8	15.6
5/15/15 15:36	37.120	-97.620	1.5	1.7	2.0	17.3
5/16/15 4:09	37.264	-97.943	1.8	1.7	1.6	15.2
5/16/15 7:54	37.616	-98.069	1.3	1.6	3.2	4.7
5/16/15 15:02	37.431	-98.940	1.4	3.1	4.1	7.0
5/17/15 6:52	37.347	-98.091	1.6	2.1	1.5	15.6
5/17/15 7:21	37.342	-98.095	1.9	1.6	1.2	16.6
5/17/15 10:05	37.073	-97.849	2.1	2.1	1.3	15.4
5/17/15 16:33	37.180	-97.996	2.3	2.8	1.7	17.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
5/17/15 20:24	37.227	-97.983	2.0	1.0	0.8	16.0
5/17/15 23:37	38.454	-97.452	1.9	3.5	4.4	8.6
5/18/15 0:52	37.156	-97.813	1.7	2.3	1.4	14.9
5/18/15 2:33	37.246	-97.575	1.9	2.3	1.5	14.6
5/18/15 4:14	38.460	-97.491	1.9	2.0	2.1	9.6
5/18/15 4:28	37.361	-98.148	2.0	2.5	1.7	16.0
5/18/15 10:19	38.530	-97.412	2.2	6.5	6.5	10.8
5/18/15 11:56	37.148	-97.842	1.5	1.3	0.9	14.3
5/19/15 4:15	37.212	-97.997	1.6	3.4	2.3	13.6
5/19/15 13:22	37.012	-97.872	1.8	2.6	1.4	14.2
5/20/15 1:08	37.037	-97.588	2.1	4.2	1.3	15.4
5/20/15 6:20	37.369	-97.449	1.4	4.4	6.1	13.0
5/20/15 9:23	37.225	-97.962	2.1	1.3	0.9	19.4
5/20/15 10:14	37.232	-97.968	2.3	2.3	1.4	20.3
5/20/15 12:11	37.294	-98.001	2.0	2.7	1.8	19.0
5/20/15 17:48	37.276	-97.627	0.5	2.3	2.0	11.3
5/21/15 2:54	37.566	-97.782	1.2	4.1	3.7	12.4
5/21/15 6:19	37.142	-97.665	2.6	1.3	0.8	18.8
5/21/15 6:34	37.238	-98.032	2.3	1.4	0.9	20.3
5/21/15 6:38	37.242	-98.029	2.3	1.7	1.0	20.3
5/21/15 7:06	37.144	-97.632	2.3	1.7	1.1	17.3
5/21/15 7:34	37.138	-97.656	1.9	1.4	1.0	16.6
5/21/15 7:40	37.136	-97.659	1.2	2.0	1.4	13.4
5/21/15 9:18	37.151	-97.635	1.4	3.8	3.0	15.0
5/21/15 10:18	37.199	-98.783	1.7	4.7	3.5	7.9
5/21/15 15:01	37.231	-97.991	1.6	2.5	1.9	14.6
5/22/15 6:25	37.020	-97.876	2.6	1.4	0.8	17.8
5/22/15 9:57	37.239	-98.031	2.4	1.7	1.1	19.8
5/22/15 10:40	37.237	-98.032	2.1	1.4	0.8	19.4
5/22/15 14:07	37.300	-97.847	1.7	2.0	1.6	13.9
5/22/15 16:43	37.208	-98.034	2.6	3.5	1.8	18.8
5/22/15 20:22	37.101	-97.282	2.0	5.8	2.4	7.0
5/22/15 21:14	37.243	-98.033	1.9	0.9	0.6	17.6
5/22/15 23:14	37.388	-98.024	2.2	2.0	1.7	14.8
5/23/15 6:17	37.419	-98.889	2.0	1.9	2.5	14.0
5/23/15 7:30	37.066	-97.777	2.2	2.4	1.4	14.8
5/23/15 15:11	37.427	-98.928	2.9	2.2	2.8	18.4
5/23/15 17:39	37.074	-97.994	1.8	3.7	2.3	15.2
5/23/15 17:58	37.231	-97.957	1.9	1.6	1.1	16.6
5/23/15 18:44	37.421	-98.919	3.7	1.8	2.2	24.7
5/23/15 20:29	37.421	-98.934	2.5	1.4	2.0	20.3
5/24/15 3:54	37.314	-98.687	1.7	3.0	3.2	5.9
5/24/15 7:35	37.021	-97.990	2.3	3.1	1.9	17.3
5/24/15 9:03	37.426	-98.937	1.6	1.3	2.3	15.6
5/24/15 10:24	37.060	-97.785	2.0	1.3	0.7	15.0
5/24/15 13:44	37.210	-97.864	2.1	1.9	1.4	16.4
5/24/15 14:01	37.425	-98.928	1.8	1.3	2.1	16.2
5/24/15 15:34	37.425	-98.935	2.0	0.9	1.6	18.0
5/24/15 19:50	37.295	-97.499	1.1	2.0	2.2	12.2
5/24/15 21:49	37.125	-97.663	3.1	2.0	1.4	22.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
5/25/15 0:07	37.088	-97.837	1.9	2.9	1.9	15.6
5/25/15 5:02	37.143	-97.657	2.2	1.8	1.2	14.8
5/25/15 5:10	37.137	-97.662	3.4	1.5	1.1	24.6
5/25/15 10:29	37.136	-97.643	1.5	3.2	2.0	13.3
5/26/15 5:02	37.379	-97.727	2.2	1.3	1.8	12.8
5/26/15 5:47	37.165	-97.646	2.3	2.4	2.4	15.3
5/26/15 10:29	37.343	-98.162	2.0	2.3	1.6	15.0
5/26/15 10:44	37.373	-97.740	2.4	1.6	2.2	15.8
5/27/15 1:57	37.085	-97.848	2.0	3.5	2.2	14.0
5/27/15 3:21	37.343	-97.962	2.2	2.1	1.4	15.8
5/27/15 10:58	37.220	-97.599	1.7	2.2	2.0	13.9
5/27/15 11:06	37.438	-98.948	2.4	1.9	2.2	16.8
5/27/15 11:12	37.269	-98.720	2.1	4.5	2.4	11.4
5/27/15 21:38	37.219	-97.971	1.7	3.7	6.0	13.9
5/28/15 12:58	37.128	-97.562	1.7	3.1	2.4	14.9
5/28/15 13:53	37.165	-97.647	2.0	1.8	1.3	16.0
5/28/15 16:44	37.097	-97.854	3.2	2.0	1.1	22.2
5/29/15 2:46	37.054	-97.924	2.6	1.8	1.1	17.8
5/29/15 4:02	37.255	-98.021	3.3	2.8	2.6	22.9
5/29/15 9:01	37.211	-97.883	2.5	2.4	1.7	17.3
5/29/15 9:41	37.232	-97.876	2.1	2.4	1.5	16.4
5/29/15 9:58	37.227	-97.521	1.8	1.3	1.1	15.2
5/29/15 21:16	37.252	-97.609	1.7	2.1	2.5	15.9
5/30/15 10:35	37.262	-97.557	1.8	1.9	1.7	15.2
5/30/15 11:21	37.063	-97.935	2.9	2.2	1.3	23.4
5/30/15 15:35	37.229	-97.917	2.2	2.4	1.5	16.8
5/30/15 18:26	37.325	-98.641	1.5	7.7	4.6	9.3
5/30/15 21:05	37.030	-97.920	1.8	3.6	2.1	18.2
5/30/15 21:10	37.057	-97.925	2.3	1.9	1.2	20.3
5/30/15 21:40	37.059	-97.932	2.4	3.1	1.7	20.8
5/30/15 22:04	37.062	-97.919	1.7	1.8	1.1	17.9
5/30/15 23:23	37.076	-97.646	1.9	1.9	1.4	18.6
5/30/15 23:25	37.083	-97.639	2.2	2.3	1.8	18.8
5/30/15 23:47	37.034	-97.904	2.4	2.8	1.9	20.8
5/31/15 0:17	37.088	-97.922	2.7	2.3	1.3	22.3
5/31/15 0:56	37.082	-97.647	1.4	3.8	3.5	17.0
5/31/15 1:34	37.055	-97.900	2.1	4.2	2.6	19.4
5/31/15 1:45	37.062	-97.921	2.1	2.9	1.5	19.4
5/31/15 4:21	37.022	-97.909	2.6	5.3	3.4	21.8
5/31/15 5:28	37.205	-98.001	2.5	4.6	4.0	17.3
5/31/15 5:56	37.054	-97.923	2.5	1.6	0.9	21.3
5/31/15 7:52	37.061	-97.930	2.8	3.7	2.3	22.8
5/31/15 8:55	37.206	-97.624	2.4	2.1	1.0	15.8
5/31/15 11:01	37.269	-98.830	1.3	2.7	2.2	6.7
5/31/15 16:55	37.075	-97.895	2.0	2.6	3.1	19.0
5/31/15 19:36	37.031	-97.926	2.6	2.8	1.5	21.8
5/31/15 22:23	37.046	-97.561	2.1	2.5	1.5	19.4
5/31/15 22:43	37.037	-97.569	1.7	3.7	2.4	17.9
6/1/15 1:49	37.043	-97.561	2.0	1.4	0.8	19.0
6/1/15 2:04	37.040	-97.571	1.7	1.9	1.1	17.9

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/1/15 3:41	37.032	-97.566	1.2	1.4	0.8	16.4
6/1/15 11:50	37.144	-97.838	1.7	1.1	0.7	17.9
6/1/15 11:51	37.177	-97.814	1.7	1.9	1.8	15.9
6/1/15 11:51	37.151	-97.845	1.8	1.5	1.0	18.2
6/1/15 12:53	37.051	-97.926	2.1	1.6	0.9	19.4
6/1/15 15:58	37.507	-97.837	1.5	2.9	3.4	9.3
6/1/15 16:34	37.093	-97.870	1.5	4.4	4.4	17.3
6/1/15 16:35	37.087	-98.039	2.3	2.9	1.8	17.3
6/1/15 16:39	37.089	-98.049	1.9	4.4	1.5	15.6
6/1/15 21:21	37.008	-97.549	1.4	1.9	1.4	16.0
6/2/15 0:58	37.075	-97.935	1.7	2.5	1.4	17.9
6/2/15 2:57	37.025	-97.560	2.2	3.5	2.1	16.8
6/3/15 3:47	37.424	-98.872	1.9	1.6	2.1	14.6
6/3/15 7:53	37.053	-97.902	2.1	2.0	0.7	15.4
6/3/15 19:33	37.289	-98.854	1.8	2.8	1.4	8.2
6/4/15 1:16	37.198	-97.578	0.4	2.8	3.4	11.2
6/4/15 8:47	37.058	-97.775	1.8	1.5	0.9	17.2
6/4/15 9:00	37.045	-97.762	2.0	1.8	0.7	18.0
6/4/15 9:42	37.070	-97.898	2.1	2.6	0.9	16.4
6/4/15 9:50	37.027	-97.929	2.1	2.2	1.2	16.4
6/4/15 11:07	37.228	-98.026	2.1	1.4	1.0	15.4
6/4/15 17:21	37.055	-97.736	2.2	1.6	1.4	17.8
6/4/15 21:30	37.062	-97.545	1.7	2.0	2.1	13.9
6/5/15 2:12	37.075	-97.739	1.7	2.3	1.4	15.9
6/5/15 15:22	37.278	-97.588	1.7	2.1	1.9	14.9
6/5/15 22:52	37.232	-97.972	1.4	1.6	1.0	17.0
6/5/15 22:53	37.225	-97.964	2.8	2.5	1.5	21.8
6/5/15 22:57	37.236	-97.974	1.7	2.9	2.8	17.9
6/5/15 22:59	37.242	-97.955	1.9	1.6	1.1	18.6
6/5/15 23:05	37.242	-97.947	2.5	2.1	1.4	21.3
6/5/15 23:05	37.234	-97.970	2.8	1.5	0.8	22.8
6/5/15 23:12	37.237	-97.965	2.7	1.9	1.2	22.3
6/5/15 23:12	37.247	-97.940	3.1	3.3	2.0	24.6
6/5/15 23:20	37.235	-97.957	1.9	2.8	1.7	18.6
6/5/15 23:25	37.241	-97.962	2.0	1.5	2.2	19.0
6/5/15 23:50	37.259	-97.933	1.9	1.2	1.1	18.6
6/5/15 23:56	37.248	-97.967	2.2	1.8	1.3	19.8
6/6/15 0:13	37.112	-97.340	2.1	4.5	3.1	9.4
6/6/15 0:32	37.243	-97.959	2.6	1.0	0.7	21.8
6/6/15 0:58	37.235	-97.939	2.0	2.1	1.5	19.0
6/6/15 1:04	37.237	-97.964	2.4	1.4	0.9	20.8
6/6/15 1:30	37.240	-97.959	1.8	1.4	0.9	18.2
6/6/15 2:54	37.249	-97.933	2.0	1.1	1.0	19.0
6/6/15 2:54	37.277	-97.911	2.0	2.1	1.7	19.0
6/6/15 3:20	37.235	-97.954	1.6	1.9	1.4	17.6
6/6/15 3:45	37.254	-97.925	1.6	1.4	1.0	17.6
6/6/15 5:42	37.229	-97.976	2.1	1.5	1.0	19.4
6/6/15 6:50	37.227	-97.952	2.5	0.9	0.6	21.3
6/6/15 7:12	37.240	-97.953	2.1	1.8	1.1	19.4
6/6/15 8:11	37.230	-97.933	2.3	1.9	1.4	20.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/6/15 13:06	37.254	-97.604	2.0	1.4	1.5	16.0
6/6/15 16:40	37.327	-97.585	2.2	3.2	3.4	16.8
6/6/15 18:12	37.367	-97.531	2.3	1.9	2.0	17.3
6/6/15 19:55	37.091	-97.844	2.3	1.3	0.9	17.3
6/7/15 1:10	37.601	-97.756	1.7	1.7	1.3	12.9
6/7/15 2:37	37.400	-97.821	2.1	0.8	1.2	15.4
6/7/15 2:37	37.397	-97.824	2.2	0.9	0.8	14.8
6/7/15 3:17	37.413	-97.803	1.7	1.8	1.9	14.9
6/7/15 4:22	37.002	-98.043	2.0	1.7	1.1	16.0
6/7/15 5:28	37.592	-97.760	1.0	3.0	2.6	12.0
6/7/15 6:34	37.219	-98.020	1.7	1.5	1.2	15.9
6/7/15 7:55	37.238	-98.033	2.8	1.1	0.7	21.8
6/7/15 10:49	37.110	-97.701	1.9	2.7	1.9	18.6
6/7/15 11:20	37.163	-97.547	1.7	3.2	3.1	15.9
6/7/15 17:08	37.222	-97.960	2.5	2.1	1.3	20.3
6/7/15 19:33	37.064	-97.790	1.9	1.7	1.5	16.6
6/7/15 19:54	37.005	-97.941	1.9	3.4	2.6	15.6
6/7/15 22:42	37.115	-97.623	1.9	1.7	1.3	18.6
6/8/15 1:41	37.110	-97.621	2.0	1.5	1.8	19.0
6/8/15 4:28	37.226	-97.959	2.9	2.0	1.3	21.4
6/8/15 4:38	37.045	-97.928	2.5	2.0	1.2	18.3
6/8/15 5:23	37.231	-97.948	1.9	1.0	0.8	16.6
6/8/15 5:50	37.107	-97.632	1.5	1.5	1.5	16.3
6/8/15 15:46	37.234	-97.960	2.2	1.2	0.9	18.8
6/9/15 0:35	37.002	-97.614	2.0	1.7	1.1	15.0
6/9/15 2:41	37.096	-98.291	1.3	1.6	0.8	4.7
6/9/15 3:49	37.064	-98.300	2.1	2.4	1.9	11.4
6/9/15 3:54	37.066	-97.926	2.5	2.1	1.3	21.3
6/9/15 4:16	37.041	-99.077	1.8	1.9	1.0	6.2
6/9/15 5:02	37.102	-98.289	2.2	2.7	1.4	14.8
6/9/15 6:15	37.096	-98.292	2.2	2.5	1.2	16.8
6/9/15 8:47	37.054	-97.765	2.7	2.4	1.6	18.3
6/9/15 13:11	37.212	-97.988	1.9	1.1	0.9	18.6
6/9/15 13:30	37.035	-97.932	2.0	2.9	1.7	17.0
6/9/15 21:49	37.240	-98.031	1.8	1.2	0.8	18.2
6/10/15 1:03	37.038	-97.619	2.1	1.9	1.1	16.4
6/10/15 2:01	37.098	-98.036	2.2	1.0	0.6	19.8
6/10/15 2:07	37.090	-98.032	2.2	2.3	1.1	19.8
6/10/15 2:18	37.093	-98.045	2.3	2.1	1.1	20.3
6/10/15 2:18	37.079	-98.022	2.3	2.3	1.1	20.3
6/10/15 2:35	37.233	-97.949	2.2	4.2	3.2	19.8
6/10/15 3:13	37.091	-97.840	2.2	1.3	0.9	17.8
6/10/15 3:27	37.113	-98.062	1.9	1.8	1.3	18.6
6/10/15 3:47	37.095	-98.032	2.2	1.4	0.8	19.8
6/10/15 4:15	37.082	-97.618	1.7	3.8	3.0	14.9
6/10/15 4:41	37.058	-98.290	2.0	2.1	0.9	19.0
6/10/15 4:54	37.030	-98.840	2.3	2.0	1.0	8.3
6/10/15 5:24	37.221	-98.008	1.9	1.5	1.2	18.6
6/10/15 5:33	37.201	-97.655	1.8	2.5	3.0	15.2
6/10/15 9:12	37.082	-98.289	2.0	2.4	1.2	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/10/15 9:56	37.018	-98.308	2.2	2.0	1.0	17.8
6/10/15 10:40	37.157	-97.640	1.1	1.5	1.9	12.2
6/10/15 11:36	37.230	-97.969	1.8	1.5	0.9	18.2
6/10/15 14:19	37.067	-97.929	1.7	3.2	1.9	16.9
6/10/15 14:35	37.261	-97.588	1.5	1.6	1.9	14.3
6/11/15 3:53	37.043	-97.921	2.0	2.4	2.3	19.0
6/11/15 8:43	37.189	-97.919	1.2	3.7	2.7	12.4
6/11/15 9:29	37.017	-98.007	1.8	1.6	2.2	18.2
6/11/15 11:58	37.051	-97.915	2.0	2.4	1.4	19.0
6/11/15 16:03	37.248	-98.025	1.7	1.2	0.9	13.9
6/11/15 16:19	37.298	-97.933	2.1	2.3	2.0	15.4
6/11/15 17:53	37.252	-98.027	2.2	2.5	1.5	15.8
6/11/15 19:59	37.060	-97.921	2.2	2.7	1.7	19.8
6/11/15 23:51	37.390	-98.374	2.0	1.9	1.1	7.0
6/12/15 4:04	37.080	-97.963	1.6	3.4	2.0	15.6
6/12/15 6:34	37.048	-98.824	1.8	1.9	1.4	8.2
6/12/15 14:19	37.086	-98.022	2.2	1.9	1.2	16.8
6/12/15 15:06	37.503	-97.851	1.7	1.7	2.1	11.9
6/12/15 17:50	37.027	-97.685	1.8	2.6	2.5	14.2
6/12/15 18:19	37.219	-97.582	1.7	1.5	1.9	13.9
6/12/15 22:29	37.285	-97.968	1.8	1.8	1.4	16.2
6/13/15 5:36	37.303	-97.931	1.7	1.4	2.0	15.9
6/13/15 5:49	37.408	-97.822	1.9	3.1	2.0	14.6
6/13/15 9:53	37.256	-97.645	2.3	1.4	1.2	16.3
6/13/15 13:23	37.360	-98.399	2.1	2.1	1.3	9.4
6/13/15 16:42	37.043	-97.972	1.9	2.6	1.3	15.6
6/13/15 18:37	37.281	-97.960	1.4	1.7	2.8	15.0
6/13/15 19:31	37.090	-97.897	1.9	3.5	4.4	17.6
6/14/15 7:36	37.289	-97.947	2.1	1.7	1.4	15.4
6/14/15 8:51	37.548	-97.831	1.5	1.8	2.0	13.3
6/14/15 16:14	37.125	-97.830	1.8	1.8	2.2	17.2
6/14/15 16:24	37.137	-97.825	1.7	1.8	2.0	16.9
6/14/15 23:13	37.243	-98.842	2.0	2.0	1.6	13.0
6/14/15 23:25	37.002	-98.100	1.6	3.6	1.9	9.6
6/15/15 1:17	37.201	-98.843	1.3	3.4	2.2	10.7
6/15/15 8:17	37.002	-98.807	1.7	3.0	1.9	10.9
6/15/15 12:35	37.117	-97.870	2.0	1.5	1.1	19.0
6/15/15 14:51	37.590	-97.774	0.8	2.4	1.9	11.6
6/15/15 19:49	37.055	-97.928	2.3	3.2	2.0	20.3
6/15/15 21:29	37.080	-97.894	2.2	1.7	1.2	19.8
6/15/15 22:08	37.055	-97.930	2.2	3.1	2.1	18.8
6/16/15 1:25	37.219	-97.531	1.2	1.1	1.2	15.4
6/16/15 2:15	37.100	-97.636	1.5	1.2	1.0	14.3
6/16/15 3:26	37.240	-97.650	1.3	1.8	1.8	16.7
6/16/15 4:04	37.139	-97.779	1.8	6.5	6.2	17.2
6/16/15 4:34	37.247	-97.601	1.0	1.4	1.5	15.0
6/16/15 5:17	37.036	-98.220	1.9	2.7	1.0	14.6
6/16/15 7:00	37.228	-97.617	1.7	1.5	1.4	17.9
6/16/15 7:07	37.130	-97.875	2.1	2.0	1.4	19.4
6/16/15 7:20	37.013	-98.843	1.6	2.0	1.4	12.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/16/15 8:52	37.253	-97.598	1.2	1.7	2.2	16.4
6/16/15 8:54	37.112	-98.858	1.7	8.5	4.2	10.9
6/16/15 18:24	37.137	-97.871	1.6	1.8	1.4	17.6
6/16/15 18:41	37.139	-97.629	1.5	2.6	2.0	14.3
6/16/15 19:08	37.249	-97.595	1.8	2.6	2.2	17.2
6/16/15 20:20	37.309	-97.840	1.7	3.4	3.1	13.9
6/16/15 21:17	37.031	-97.943	1.7	2.3	1.3	15.9
6/17/15 1:57	37.244	-98.026	1.7	1.6	1.2	13.9
6/17/15 6:37	37.263	-97.605	1.5	1.4	1.4	16.3
6/17/15 7:02	37.167	-98.777	1.6	2.3	1.6	12.6
6/17/15 8:24	37.007	-97.963	1.8	2.3	1.6	17.2
6/17/15 9:25	37.069	-97.913	1.7	2.4	1.3	17.9
6/17/15 12:20	37.161	-97.815	1.4	1.9	1.5	15.0
6/17/15 22:36	37.138	-97.814	1.6	2.4	2.6	17.6
6/18/15 2:14	37.044	-98.004	1.8	3.2	2.1	18.2
6/18/15 11:26	37.168	-97.805	2.0	2.5	2.2	19.0
6/18/15 14:36	37.108	-97.847	1.2	2.3	1.8	16.4
6/18/15 15:03	37.255	-97.595	1.4	1.7	1.5	13.0
6/18/15 16:28	37.157	-97.840	1.7	1.7	1.3	17.9
6/18/15 17:24	37.141	-97.844	1.5	2.9	1.9	17.3
6/18/15 19:11	37.450	-99.040	1.4	2.8	7.3	9.0
6/18/15 19:55	37.468	-98.347	0.5	3.4	1.8	5.3
6/18/15 21:37	37.028	-97.909	1.5	3.3	1.8	15.3
6/19/15 0:48	37.055	-98.025	1.4	3.7	2.5	15.0
6/19/15 1:15	37.156	-97.849	1.2	1.5	1.3	16.4
6/19/15 2:21	37.251	-97.974	1.9	4.7	4.2	16.6
6/19/15 4:43	37.150	-97.857	1.6	2.1	1.7	17.6
6/19/15 5:38	37.142	-97.892	1.9	2.0	1.5	18.6
6/19/15 6:28	37.434	-98.693	1.4	1.2	1.9	7.0
6/19/15 6:33	37.466	-98.774	1.3	1.5	2.1	8.7
6/19/15 6:38	37.074	-98.053	1.7	3.0	1.5	14.9
6/19/15 8:35	37.236	-97.838	1.6	2.1	1.5	17.6
6/19/15 9:41	37.027	-99.310	2.0	9.9	6.8	7.0
6/19/15 10:10	37.452	-98.704	1.7	1.7	1.8	11.9
6/19/15 10:32	37.240	-97.949	1.6	3.2	2.4	15.6
6/19/15 11:52	37.225	-97.968	1.7	2.4	1.8	15.9
6/19/15 11:57	37.157	-97.855	1.7	3.0	2.2	17.9
6/19/15 12:48	37.007	-97.812	1.6	1.9	1.4	14.6
6/19/15 17:28	37.156	-97.828	2.0	2.2	1.7	19.0
6/19/15 18:26	37.028	-97.440	1.8	2.0	1.1	6.2
6/19/15 19:07	37.141	-97.859	1.3	2.2	2.8	15.7
6/20/15 1:40	37.008	-97.959	2.4	2.5	1.5	16.8
6/20/15 6:07	37.269	-97.627	1.5	1.9	2.1	16.3
6/20/15 8:13	37.153	-97.810	2.1	1.9	1.1	18.4
6/20/15 13:13	37.296	-97.584	1.5	1.6	2.0	17.3
6/20/15 23:10	37.004	-98.048	1.0	5.3	2.4	12.0
6/21/15 0:20	37.241	-97.963	2.0	2.4	1.8	15.0
6/21/15 3:57	37.243	-97.644	1.9	3.3	2.7	18.6
6/21/15 4:13	37.114	-97.664	1.8	2.6	1.9	14.2
6/21/15 5:13	37.273	-97.623	1.3	1.3	1.5	16.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/21/15 6:24	37.134	-98.038	1.7	5.7	3.5	14.9
6/21/15 12:58	37.229	-97.635	1.7	1.4	1.1	17.9
6/21/15 13:40	37.280	-97.603	1.6	2.0	2.0	17.6
6/21/15 17:45	37.104	-97.990	1.9	2.0	1.5	15.6
6/21/15 21:49	37.438	-98.005	2.4	6.5	5.5	10.8
6/22/15 4:19	37.279	-97.523	1.4	2.2	2.3	16.0
6/22/15 7:38	37.351	-98.594	1.9	2.6	2.0	10.6
6/22/15 8:26	37.255	-98.719	2.2	1.8	1.2	11.8
6/22/15 10:48	37.260	-97.582	1.2	1.6	1.6	15.4
6/23/15 3:04	37.284	-98.721	1.5	2.3	1.6	15.3
6/23/15 3:06	37.248	-97.595	0.5	1.5	1.9	11.3
6/23/15 4:03	37.262	-98.711	1.4	2.0	1.3	15.0
6/23/15 7:17	37.442	-98.695	1.4	1.7	1.8	14.0
6/23/15 7:50	37.440	-98.675	1.4	1.9	2.3	16.0
6/23/15 8:35	37.451	-98.705	1.1	1.4	1.8	15.2
6/23/15 9:04	37.279	-98.722	0.7	1.3	1.1	11.5
6/23/15 10:26	37.166	-97.872	1.5	1.5	1.2	13.3
6/23/15 11:02	37.249	-97.597	1.7	2.5	1.8	14.9
6/23/15 12:36	37.334	-97.578	1.6	2.4	2.4	14.6
6/23/15 14:09	37.420	-98.635	1.2	1.3	1.8	15.4
6/23/15 17:29	37.265	-98.716	1.4	1.8	1.2	15.0
6/23/15 18:06	37.106	-97.642	2.0	1.9	1.5	16.0
6/23/15 18:35	37.106	-97.641	1.7	1.7	2.0	15.9
6/23/15 21:08	37.112	-97.622	1.4	1.3	1.3	14.0
6/24/15 1:20	37.021	-98.940	1.8	1.8	2.0	10.2
6/24/15 4:40	37.016	-98.825	1.9	2.5	1.5	14.6
6/24/15 11:44	37.030	-97.756	1.5	1.3	1.1	13.3
6/24/15 18:47	37.244	-97.605	2.2	0.9	0.7	16.8
6/25/15 1:18	37.087	-97.564	1.5	1.1	0.9	13.3
6/25/15 8:35	37.050	-97.926	1.5	3.0	2.0	14.3
6/25/15 12:27	37.235	-97.835	1.8	3.1	2.2	14.2
6/25/15 14:22	37.056	-97.909	1.8	2.2	1.5	15.2
6/25/15 15:29	37.163	-98.008	1.9	1.2	0.8	15.6
6/25/15 15:48	37.243	-97.597	1.8	1.8	1.4	18.2
6/25/15 15:48	37.250	-97.597	1.7	1.6	1.4	16.9
6/25/15 17:02	37.004	-98.036	2.1	3.5	1.7	16.4
6/26/15 1:22	37.238	-98.829	2.1	2.0	1.3	15.4
6/26/15 1:56	37.245	-97.608	1.4	1.5	1.7	16.0
6/26/15 3:26	37.107	-97.632	1.5	1.5	1.8	13.3
6/26/15 5:11	37.154	-98.002	2.1	1.3	0.9	16.4
6/26/15 5:57	37.003	-98.846	2.4	1.8	1.0	17.8
6/26/15 7:15	37.004	-98.851	1.8	1.9	1.4	16.2
6/26/15 7:22	37.024	-98.857	1.7	2.2	1.5	15.9
6/26/15 8:23	37.429	-98.690	1.6	1.7	1.8	13.6
6/26/15 10:48	37.255	-97.595	1.4	1.4	1.7	16.0
6/26/15 12:20	37.016	-98.855	1.9	2.0	1.8	17.6
6/26/15 14:55	37.026	-98.043	1.7	2.8	1.3	14.9
6/27/15 4:22	37.003	-97.509	1.4	2.0	1.5	13.0
6/27/15 7:17	37.052	-97.784	1.9	1.9	1.2	15.6
6/27/15 7:36	37.180	-98.003	1.8	2.9	1.9	15.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/27/15 8:27	37.250	-98.015	2.0	1.2	0.8	16.0
6/27/15 15:04	37.359	-98.942	1.7	2.8	4.9	7.9
6/27/15 17:50	37.092	-97.565	1.6	1.7	1.6	13.6
6/27/15 18:50	37.241	-98.752	1.7	1.7	1.1	13.9
6/28/15 1:14	37.109	-97.819	2.1	1.7	1.0	19.4
6/28/15 1:54	37.443	-98.699	2.0	1.2	1.2	16.0
6/28/15 2:31	37.437	-98.694	2.2	1.7	2.1	16.8
6/28/15 2:40	37.057	-97.696	1.3	2.4	2.3	13.7
6/28/15 3:10	37.176	-97.812	1.9	1.7	1.1	15.6
6/28/15 6:07	37.025	-98.842	1.8	2.2	1.3	14.2
6/28/15 10:10	37.258	-97.862	2.1	2.4	2.1	16.4
6/28/15 10:44	37.270	-97.638	1.5	2.1	2.2	17.3
6/28/15 10:44	37.257	-97.626	1.8	2.4	2.5	18.2
6/28/15 14:25	37.297	-97.603	1.6	1.6	1.4	17.6
6/28/15 21:01	37.249	-97.602	1.8	1.2	1.1	18.2
6/28/15 22:36	37.048	-97.915	1.6	2.5	2.0	15.6
6/28/15 22:48	37.096	-97.877	1.7	1.6	1.3	16.9
6/29/15 0:59	37.034	-97.792	2.0	2.4	1.6	19.0
6/29/15 1:03	37.030	-97.764	1.7	2.4	1.3	17.9
6/29/15 2:56	37.296	-97.602	1.3	1.6	1.5	16.7
6/29/15 3:05	37.290	-97.612	2.2	1.9	1.9	18.8
6/29/15 3:27	37.286	-97.621	2.4	1.5	1.4	20.8
6/29/15 3:35	37.446	-98.682	1.8	1.4	1.3	14.2
6/29/15 4:00	37.290	-97.620	1.8	1.9	2.1	18.2
6/29/15 4:30	37.287	-97.622	1.8	1.5	1.5	18.2
6/29/15 4:50	37.013	-98.066	1.7	3.9	2.5	13.9
6/29/15 4:50	37.190	-97.964	1.6	3.5	2.0	17.6
6/29/15 5:05	37.263	-97.570	1.5	1.2	1.5	17.3
6/29/15 5:14	37.254	-97.591	1.1	1.7	1.7	16.2
6/29/15 5:28	37.261	-97.576	1.9	1.2	1.5	18.6
6/29/15 5:40	37.261	-97.570	1.7	1.4	1.7	17.9
6/29/15 5:52	37.289	-97.618	1.7	1.5	1.7	17.9
6/29/15 5:53	37.265	-97.609	1.2	6.5	7.5	16.4
6/29/15 7:00	37.290	-97.616	1.9	1.4	1.5	18.6
6/29/15 7:09	37.301	-97.602	1.5	1.7	1.4	17.3
6/29/15 7:22	37.292	-97.619	1.5	1.7	1.8	17.3
6/29/15 7:26	37.091	-97.906	1.7	2.7	1.7	16.9
6/29/15 7:45	37.289	-97.629	1.7	1.9	1.8	17.9
6/29/15 9:42	37.289	-97.620	1.8	1.5	1.8	18.2
6/29/15 9:47	37.302	-97.606	1.6	1.8	1.9	17.6
6/29/15 10:07	37.237	-97.963	2.0	2.3	1.5	19.0
6/29/15 10:35	37.292	-97.616	2.4	1.7	1.7	19.8
6/29/15 11:15	37.171	-98.015	1.9	2.3	1.7	18.6
6/29/15 13:31	37.257	-97.586	1.3	2.2	2.4	16.7
6/29/15 17:38	37.229	-97.969	1.8	2.1	1.5	18.2
6/29/15 18:22	37.249	-97.943	1.9	2.4	1.6	18.6
6/29/15 18:43	37.258	-97.585	1.6	1.6	1.7	17.6
6/29/15 19:46	37.230	-97.976	1.8	2.2	1.8	18.2
6/29/15 19:59	37.049	-97.777	1.5	1.6	1.2	17.3
6/29/15 20:06	37.163	-98.001	1.6	1.3	0.8	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
6/29/15 20:20	37.042	-97.773	1.8	2.5	1.9	18.2
6/29/15 22:50	37.164	-98.604	1.9	2.8	0.9	6.6
6/30/15 1:47	37.131	-97.518	0.8	2.7	2.5	11.6
6/30/15 6:25	37.044	-97.850	1.8	3.1	1.7	18.2
6/30/15 8:18	37.228	-97.956	2.0	1.9	1.4	19.0
6/30/15 8:33	37.164	-98.001	1.6	1.6	1.0	17.6
6/30/15 8:35	37.447	-98.730	1.5	1.1	1.4	13.3
6/30/15 8:42	37.257	-97.589	1.4	3.0	3.5	17.0
6/30/15 8:55	37.118	-97.681	1.9	3.3	3.3	14.6
6/30/15 9:51	37.099	-97.878	2.0	3.6	2.1	17.0
6/30/15 9:54	37.153	-97.988	1.3	2.7	2.1	16.7
6/30/15 14:28	37.147	-98.005	1.9	2.7	1.7	18.6
6/30/15 14:46	37.001	-97.816	1.3	1.6	1.9	15.7
6/30/15 15:24	37.176	-98.015	1.7	2.5	1.6	17.9
6/30/15 22:13	37.150	-98.004	1.6	2.5	1.5	17.6
6/30/15 23:14	37.137	-97.837	1.8	1.6	1.0	15.2
7/1/15 1:58	37.175	-97.981	1.8	1.4	2.0	17.2
7/1/15 2:17	37.131	-97.809	1.8	2.6	3.2	16.2
7/1/15 5:49	37.102	-98.009	1.5	1.7	1.7	15.3
7/1/15 8:58	37.212	-97.961	1.5	1.1	1.0	14.3
7/1/15 9:12	37.153	-97.998	2.6	2.2	1.4	17.8
7/1/15 10:10	37.167	-98.069	2.0	2.8	1.7	17.0
7/1/15 19:37	37.148	-97.815	1.7	3.8	2.5	15.9
7/1/15 20:32	37.627	-97.727	1.6	3.0	2.5	11.6
7/1/15 23:03	37.062	-97.871	1.4	1.3	1.2	17.0
7/1/15 23:09	37.056	-97.869	2.3	1.4	1.2	17.3
7/2/15 1:36	37.129	-97.646	1.7	2.5	1.8	13.9
7/2/15 4:34	37.832	-97.948	1.2	2.7	1.5	4.4
7/2/15 5:19	37.214	-97.818	2.1	1.4	1.1	17.4
7/2/15 10:31	37.237	-97.894	1.3	1.2	1.8	14.7
7/2/15 10:32	37.072	-97.556	1.4	1.8	1.9	13.0
7/2/15 12:27	37.285	-97.617	0.6	1.3	1.3	11.4
7/2/15 14:48	37.260	-98.029	1.6	2.4	1.9	13.6
7/2/15 15:08	37.250	-97.884	1.8	1.0	0.8	17.2
7/2/15 15:19	37.226	-97.896	1.4	1.5	1.4	15.0
7/2/15 16:06	37.063	-97.876	1.0	2.0	2.2	14.0
7/2/15 22:13	37.041	-97.798	1.3	2.0	1.1	16.7
7/2/15 22:45	37.068	-97.888	1.9	2.5	1.4	18.6
7/3/15 0:19	37.047	-97.870	1.8	1.6	1.8	18.2
7/3/15 2:53	37.101	-98.005	1.6	1.7	1.1	16.6
7/3/15 3:01	37.105	-98.026	2.1	3.2	2.1	16.4
7/3/15 4:25	37.139	-97.652	2.0	1.5	1.5	14.0
7/3/15 5:56	37.043	-97.797	1.9	2.9	2.3	18.6
7/3/15 6:12	37.038	-98.866	2.2	1.5	0.9	15.8
7/3/15 10:03	37.096	-98.021	1.5	1.6	1.2	15.3
7/3/15 12:22	37.131	-97.893	1.6	1.6	2.1	17.6
7/3/15 13:05	37.076	-97.793	1.6	1.8	1.3	17.6
7/3/15 15:49	37.063	-97.783	2.0	2.2	1.5	19.0
7/3/15 18:46	37.080	-97.805	1.9	1.3	1.2	18.6
7/3/15 19:59	37.229	-97.962	2.0	2.6	1.6	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/3/15 22:03	37.079	-97.801	1.5	1.6	1.3	17.3
7/3/15 23:41	37.293	-97.617	1.5	1.3	1.2	16.3
7/4/15 2:07	37.059	-97.918	2.1	2.9	2.0	19.4
7/4/15 2:35	37.241	-97.926	1.7	3.2	2.4	14.9
7/4/15 5:33	37.017	-98.841	2.2	3.7	2.5	16.8
7/4/15 5:53	37.075	-97.798	1.6	2.4	1.8	17.6
7/4/15 6:10	37.241	-97.939	2.2	3.5	1.7	17.8
7/4/15 6:23	37.106	-98.005	1.6	1.0	0.7	17.6
7/4/15 6:24	37.091	-97.784	1.7	1.3	1.0	17.9
7/4/15 8:46	37.170	-97.816	1.9	2.2	1.4	16.6
7/4/15 10:59	37.285	-97.619	2.0	1.9	1.6	16.0
7/4/15 11:53	37.067	-97.797	1.7	1.4	1.3	17.9
7/4/15 13:37	37.055	-97.981	2.0	3.1	4.6	19.0
7/4/15 13:57	37.168	-97.702	1.5	5.5	6.3	13.3
7/4/15 14:26	37.083	-97.797	1.5	5.5	6.2	17.3
7/4/15 14:43	37.284	-97.612	1.3	2.4	2.4	13.7
7/4/15 16:44	37.097	-98.024	1.8	1.3	1.0	17.2
7/4/15 17:52	37.068	-97.794	1.6	2.0	1.4	17.6
7/4/15 22:06	37.269	-97.591	1.9	1.9	1.4	17.6
7/5/15 5:26	37.093	-97.970	1.9	2.4	1.3	18.6
7/5/15 5:34	37.251	-97.911	1.8	1.4	2.1	16.2
7/5/15 10:14	37.032	-97.920	2.3	2.2	1.6	20.3
7/5/15 13:03	37.210	-97.970	1.8	2.0	1.4	17.2
7/5/15 13:28	37.317	-97.456	0.5	1.9	2.3	7.3
7/5/15 13:54	37.291	-97.572	2.3	1.8	1.4	16.3
7/5/15 14:44	37.081	-97.615	1.9	1.6	1.2	14.6
7/5/15 20:48	37.113	-97.557	1.3	2.6	1.8	13.7
7/6/15 5:44	37.330	-97.573	1.2	2.4	2.8	12.4
7/6/15 6:30	37.109	-98.062	2.0	1.7	0.9	15.0
7/6/15 7:09	37.025	-97.813	2.0	1.7	1.2	19.0
7/6/15 7:20	37.003	-97.846	1.6	1.7	1.2	17.6
7/6/15 8:16	37.050	-97.824	1.9	1.5	1.1	18.6
7/6/15 8:37	37.239	-97.964	2.0	1.6	0.9	19.0
7/6/15 10:39	37.265	-98.038	1.7	3.5	6.0	17.9
7/6/15 13:00	37.063	-97.927	1.7	4.2	3.1	17.9
7/6/15 14:43	37.175	-97.786	1.8	1.0	0.9	15.2
7/6/15 15:19	37.244	-98.015	1.7	2.3	1.2	16.9
7/6/15 17:42	37.053	-97.805	2.0	2.8	2.0	19.0
7/6/15 17:55	37.063	-97.507	1.6	1.4	1.0	14.6
7/6/15 22:50	37.017	-97.923	1.6	3.9	2.6	17.6
7/7/15 0:59	37.119	-97.755	2.1	3.0	2.8	17.4
7/7/15 1:38	37.031	-98.154	1.8	3.1	1.9	12.2
7/7/15 4:25	37.400	-98.683	2.0	2.4	1.3	19.0
7/7/15 4:50	37.427	-98.702	1.9	1.7	1.9	18.6
7/7/15 5:22	37.441	-98.697	2.2	0.8	0.9	18.8
7/7/15 6:32	37.048	-97.929	1.6	2.8	2.1	17.6
7/7/15 8:16	37.156	-98.044	1.6	1.2	1.9	15.6
7/7/15 8:19	37.209	-97.962	2.0	3.3	5.0	19.0
7/7/15 11:16	37.370	-97.756	1.8	1.4	1.6	8.2
7/7/15 12:36	37.024	-97.961	1.9	2.0	1.4	18.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/7/15 16:55	37.156	-98.007	1.7	1.9	1.2	15.9
7/7/15 17:07	37.218	-97.618	1.0	1.2	1.5	14.0
7/7/15 17:21	37.069	-97.936	2.0	3.2	2.4	19.0
7/8/15 0:08	37.290	-97.571	1.0	2.4	2.9	14.0
7/8/15 1:18	37.438	-98.700	1.9	1.9	1.8	18.6
7/8/15 1:21	37.447	-98.709	1.7	1.9	2.0	16.9
7/8/15 2:53	37.099	-97.783	1.9	1.2	1.0	15.6
7/8/15 3:33	37.046	-97.938	1.9	2.2	1.2	17.6
7/8/15 5:57	37.307	-97.613	1.6	1.5	1.7	15.6
7/8/15 7:02	37.311	-98.025	2.2	2.9	1.5	15.8
7/8/15 12:40	37.290	-97.597	1.3	2.0	2.5	16.7
7/8/15 18:37	37.275	-97.572	2.0	2.3	2.0	15.0
7/8/15 21:08	37.325	-97.466	1.7	2.5	3.0	13.9
7/8/15 21:26	37.325	-97.470	1.7	2.7	3.2	15.9
7/8/15 22:55	37.326	-97.468	1.1	2.7	3.4	16.2
7/8/15 23:08	37.051	-99.294	1.9	3.4	1.9	12.6
7/8/15 23:10	37.017	-99.306	2.4	3.2	2.3	16.8
7/9/15 0:10	37.071	-97.846	1.2	2.6	2.4	12.4
7/9/15 0:25	37.511	-97.853	0.4	3.1	3.1	7.2
7/9/15 1:59	37.105	-97.857	1.9	1.3	0.9	17.6
7/9/15 2:49	37.438	-98.678	2.0	1.0	1.0	15.0
7/9/15 4:24	37.276	-97.539	0.9	5.7	6.9	15.8
7/9/15 5:11	37.068	-97.958	2.3	1.4	1.0	19.3
7/9/15 5:31	37.155	-98.005	2.1	2.2	1.6	18.4
7/9/15 5:46	37.084	-97.948	2.3	1.9	1.0	20.3
7/9/15 6:00	37.017	-99.303	2.7	2.5	1.7	17.3
7/9/15 6:05	37.328	-97.469	2.4	2.2	2.3	16.8
7/9/15 6:14	37.139	-98.003	2.0	2.5	1.6	18.0
7/9/15 9:07	37.318	-97.454	1.0	2.5	2.9	16.0
7/9/15 11:05	37.094	-98.657	2.1	2.0	1.1	9.4
7/9/15 11:34	37.212	-97.736	2.5	1.4	1.1	16.3
7/9/15 14:59	37.312	-97.451	0.8	2.0	2.1	15.6
7/9/15 15:30	37.317	-97.453	1.8	1.9	2.3	16.2
7/9/15 15:34	37.312	-97.456	0.7	2.0	2.2	15.5
7/9/15 15:56	37.522	-97.878	1.2	3.3	2.9	10.4
7/9/15 16:46	37.292	-97.515	0.7	1.7	1.8	15.5
7/9/15 17:19	37.090	-97.886	2.3	2.2	1.4	20.3
7/9/15 17:57	37.017	-99.325	2.0	3.8	3.0	19.0
7/9/15 18:05	37.029	-99.316	2.0	3.2	2.4	19.0
7/9/15 19:53	37.575	-97.824	1.8	2.6	2.4	15.2
7/9/15 20:51	37.255	-97.597	1.4	1.6	1.9	17.0
7/9/15 21:49	37.004	-99.317	1.5	2.4	1.8	16.3
7/9/15 22:06	37.627	-97.732	1.5	3.1	2.5	9.3
7/9/15 23:32	37.237	-97.996	1.6	1.9	1.9	17.6
7/10/15 0:03	37.253	-97.593	0.8	1.2	1.5	13.6
7/10/15 0:11	37.254	-97.594	1.4	2.2	2.8	17.0
7/10/15 4:12	37.247	-97.598	1.4	1.7	1.7	17.0
7/10/15 5:00	37.575	-97.777	2.3	2.0	1.3	16.3
7/10/15 5:23	37.107	-97.879	1.9	2.5	2.0	18.6
7/10/15 5:30	37.251	-97.598	1.5	1.3	1.3	16.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/10/15 7:30	37.191	-97.958	1.7	2.9	3.1	16.9
7/10/15 9:10	37.092	-97.874	1.9	1.5	0.9	18.6
7/10/15 9:21	37.103	-97.835	2.0	1.7	1.1	19.0
7/10/15 10:20	37.316	-97.460	0.9	2.7	3.0	14.8
7/10/15 10:37	37.082	-97.827	1.4	1.9	1.1	16.0
7/10/15 10:52	37.082	-97.855	1.6	1.4	0.9	17.6
7/10/15 11:49	37.713	-98.308	1.3	4.4	1.0	4.7
7/10/15 13:55	37.252	-98.010	1.9	1.5	1.0	17.6
7/10/15 15:28	37.013	-97.958	1.5	2.7	1.7	14.3
7/10/15 16:53	37.254	-98.022	1.7	1.7	1.3	16.9
7/10/15 17:42	37.416	-97.843	0.7	8.1	9.2	8.5
7/10/15 18:14	37.061	-98.094	1.7	3.5	1.7	13.9
7/10/15 18:55	37.424	-97.855	0.7	5.8	7.4	10.5
7/10/15 20:42	37.006	-98.272	2.2	3.7	1.5	9.8
7/10/15 23:18	37.001	-97.617	1.9	2.5	1.9	14.6
7/11/15 0:19	37.551	-97.837	0.6	2.4	2.3	11.4
7/11/15 2:06	37.028	-97.908	2.1	2.1	1.5	19.4
7/11/15 7:42	37.592	-97.820	1.5	4.5	3.9	13.3
7/11/15 12:13	37.062	-97.911	1.8	1.1	0.7	17.2
7/11/15 12:33	37.258	-97.588	1.8	1.2	1.4	17.2
7/11/15 15:17	37.219	-97.617	1.6	1.4	1.8	16.6
7/11/15 17:42	37.116	-97.812	1.8	3.6	2.3	14.2
7/12/15 0:05	37.225	-97.669	1.8	8.3	7.9	18.2
7/12/15 1:28	37.043	-97.950	2.3	3.0	2.0	18.3
7/12/15 1:46	37.232	-97.592	1.4	1.5	1.9	17.0
7/12/15 6:57	37.237	-97.975	1.6	2.0	1.4	17.6
7/12/15 13:25	37.248	-97.968	1.6	1.8	1.0	17.6
7/12/15 13:35	37.261	-97.982	2.2	1.5	1.1	18.8
7/12/15 15:03	37.712	-98.122	1.9	3.6	1.0	6.6
7/12/15 15:09	37.292	-98.170	1.8	1.9	1.4	6.2
7/12/15 16:01	37.351	-97.550	1.3	1.9	2.1	14.7
7/12/15 17:27	37.290	-97.612	1.7	1.8	1.8	16.9
7/12/15 19:46	37.152	-97.613	1.7	1.3	1.6	17.9
7/12/15 21:36	37.253	-97.945	2.1	1.1	0.9	19.4
7/12/15 22:32	37.091	-97.672	1.7	1.4	1.6	15.9
7/12/15 23:45	37.144	-97.610	1.2	1.5	1.8	14.4
7/13/15 0:10	37.312	-97.461	1.0	2.6	2.8	13.0
7/13/15 2:44	37.243	-98.032	2.1	1.5	0.9	19.4
7/13/15 3:21	37.247	-97.999	1.7	1.6	1.3	17.9
7/13/15 5:06	37.275	-98.007	2.5	1.8	1.0	19.3
7/13/15 9:22	37.002	-97.897	2.1	2.4	1.3	18.4
7/13/15 9:40	37.054	-97.911	2.0	2.7	1.4	18.0
7/13/15 10:26	37.081	-97.920	1.6	1.5	0.8	15.6
7/13/15 13:30	37.450	-98.708	2.0	0.7	0.8	16.0
7/13/15 13:35	37.416	-98.679	1.7	1.7	1.8	14.9
7/13/15 13:42	37.051	-97.924	2.3	2.1	1.5	18.3
7/13/15 14:55	37.272	-97.926	1.7	1.3	2.4	16.9
7/13/15 23:37	37.010	-97.566	2.4	1.0	0.7	15.8
7/14/15 3:38	37.254	-97.897	2.3	2.5	2.1	19.3
7/14/15 4:01	37.384	-97.631	2.3	1.8	1.7	16.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/14/15 5:02	37.382	-97.637	2.0	1.6	1.7	16.0
7/14/15 8:19	37.609	-97.790	1.5	4.2	3.5	13.3
7/14/15 10:12	37.319	-98.940	2.1	3.0	3.8	9.4
7/14/15 13:41	37.236	-97.886	1.9	0.9	0.7	18.6
7/14/15 15:33	37.021	-97.926	2.5	2.7	1.6	16.3
7/14/15 17:12	37.195	-97.972	2.1	1.2	0.9	19.4
7/14/15 19:30	37.001	-97.859	1.7	2.6	3.3	14.9
7/14/15 20:06	37.326	-98.532	1.7	6.1	6.1	7.9
7/14/15 20:31	37.719	-98.300	2.1	4.1	1.3	9.4
7/14/15 21:04	37.232	-97.922	1.8	2.6	1.7	18.2
7/15/15 4:56	37.155	-97.995	2.0	2.1	1.5	16.0
7/15/15 8:14	37.173	-97.600	2.3	1.9	1.5	16.3
7/15/15 8:24	37.458	-98.743	2.0	1.0	1.4	19.0
7/15/15 8:37	37.431	-98.683	1.8	1.2	1.2	18.2
7/15/15 8:45	37.439	-98.704	2.0	1.4	1.6	19.0
7/15/15 9:15	37.253	-98.012	2.1	1.6	1.3	18.4
7/15/15 10:45	37.271	-98.618	2.4	4.1	1.3	16.8
7/15/15 10:53	37.433	-98.651	1.9	1.7	1.7	18.6
7/15/15 11:01	37.465	-98.743	1.9	0.7	0.8	18.6
7/15/15 11:15	37.448	-98.712	2.1	1.5	1.5	19.4
7/15/15 13:11	37.387	-97.721	1.7	1.4	1.9	11.9
7/15/15 17:04	37.068	-97.983	1.8	1.9	1.2	16.2
7/15/15 17:44	37.051	-97.841	2.1	2.1	1.2	19.4
7/15/15 18:33	37.440	-98.692	2.0	2.0	2.0	19.0
7/15/15 20:47	37.078	-97.797	1.7	3.1	3.5	14.9
7/15/15 20:54	37.146	-97.606	1.5	1.3	1.6	14.3
7/16/15 1:07	37.073	-97.907	2.1	1.1	1.1	18.4
7/16/15 2:13	37.252	-97.607	2.4	1.1	0.9	16.8
7/16/15 4:11	37.048	-97.929	1.9	3.0	2.1	17.6
7/16/15 6:03	37.351	-98.175	2.0	4.0	2.7	13.0
7/16/15 7:08	37.283	-97.550	1.7	1.2	1.4	15.9
7/16/15 7:25	37.334	-98.100	1.8	2.5	1.8	18.2
7/16/15 8:03	37.330	-98.148	2.0	2.2	1.5	17.0
7/16/15 8:07	37.321	-98.117	1.8	4.5	2.2	18.2
7/16/15 8:08	37.317	-98.133	2.1	1.9	1.5	19.4
7/16/15 9:11	37.247	-98.032	2.0	2.1	1.1	19.0
7/16/15 9:22	37.237	-98.040	2.3	1.4	0.9	18.3
7/16/15 9:45	37.233	-98.023	1.4	1.5	1.2	16.0
7/16/15 11:37	37.437	-98.700	1.9	1.2	1.2	16.6
7/16/15 12:08	37.242	-98.034	1.8	1.3	0.9	18.2
7/16/15 12:43	37.441	-98.694	2.1	1.5	1.5	17.4
7/16/15 16:40	37.341	-98.116	1.8	2.8	2.4	18.2
7/16/15 17:00	37.312	-98.142	2.0	1.8	1.3	19.0
7/16/15 17:19	37.288	-97.548	1.6	2.0	2.4	16.6
7/16/15 17:43	37.206	-97.552	1.7	1.4	1.7	16.9
7/16/15 18:16	37.298	-97.632	1.1	4.3	5.2	13.2
7/16/15 19:55	37.013	-98.862	2.0	2.5	1.7	15.0
7/17/15 2:32	37.112	-98.865	2.1	3.0	1.8	9.4
7/17/15 4:35	37.229	-98.122	1.6	1.4	1.0	17.6
7/17/15 4:43	37.230	-97.913	1.8	1.9	1.5	15.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/17/15 5:04	37.238	-97.942	1.7	4.3	2.7	17.9
7/17/15 7:09	37.008	-97.968	2.0	2.4	1.2	17.0
7/17/15 7:45	37.019	-97.976	1.9	2.9	2.0	17.6
7/17/15 13:19	37.332	-98.121	2.0	2.2	1.5	17.0
7/17/15 19:21	37.042	-97.920	2.0	3.1	1.9	19.0
7/18/15 0:10	37.020	-97.909	1.4	1.4	0.8	14.0
7/18/15 0:58	37.102	-97.864	1.9	1.2	0.9	17.6
7/18/15 1:03	37.164	-98.190	1.5	3.1	1.8	8.3
7/18/15 2:39	37.005	-97.568	2.0	1.1	0.8	15.0
7/18/15 3:11	37.083	-97.879	2.1	2.4	1.8	18.4
7/18/15 3:48	37.128	-97.729	1.9	2.6	1.9	15.6
7/18/15 4:06	37.066	-97.852	2.0	1.7	1.3	18.0
7/18/15 5:37	37.455	-98.696	1.8	4.0	4.5	14.2
7/18/15 8:25	37.261	-98.718	2.1	1.2	0.8	15.4
7/18/15 10:02	37.161	-97.757	1.5	1.6	2.0	14.3
7/18/15 14:16	37.277	-97.638	2.0	2.0	1.5	15.0
7/18/15 16:15	37.270	-97.647	2.4	2.0	1.8	16.8
7/18/15 16:54	37.303	-97.614	1.3	1.5	1.6	13.7
7/18/15 21:38	37.165	-97.982	2.1	3.1	1.9	18.4
7/19/15 4:34	37.016	-97.934	1.9	2.4	1.7	16.6
7/19/15 6:30	37.304	-98.136	2.2	1.7	1.1	18.8
7/19/15 7:33	37.164	-98.011	1.9	1.8	1.4	18.6
7/19/15 8:42	37.345	-98.140	2.1	3.1	2.0	18.4
7/19/15 8:53	37.316	-98.143	2.5	3.2	1.5	19.3
7/19/15 9:21	37.065	-97.938	2.3	2.9	2.0	20.3
7/19/15 9:32	37.325	-98.135	2.4	2.8	1.8	19.8
7/19/15 10:57	37.416	-97.971	2.0	2.2	1.6	11.0
7/19/15 11:02	37.038	-97.821	2.2	2.9	1.8	19.8
7/19/15 11:04	37.423	-97.967	1.9	2.0	1.1	12.6
7/19/15 11:54	37.069	-98.155	1.7	2.0	1.2	12.9
7/19/15 11:59	37.415	-97.966	2.0	1.9	1.4	15.0
7/19/15 12:24	37.202	-98.036	1.5	3.8	1.9	15.3
7/19/15 16:26	37.218	-97.982	2.3	3.1	2.5	19.3
7/19/15 16:43	37.292	-97.596	1.2	1.9	2.4	13.4
7/19/15 18:53	37.164	-98.014	1.6	1.1	0.9	17.6
7/20/15 3:18	37.426	-98.938	1.9	1.8	2.2	8.6
7/20/15 3:27	37.052	-97.914	2.2	1.6	1.0	19.8
7/20/15 7:56	37.093	-97.875	2.3	5.1	2.1	20.3
7/20/15 8:10	37.078	-97.908	2.1	3.1	1.9	19.4
7/20/15 8:24	37.070	-97.909	2.2	2.5	1.5	19.8
7/20/15 9:21	37.020	-97.929	2.1	4.5	2.9	19.4
7/20/15 9:31	37.022	-98.125	2.1	1.8	1.1	16.4
7/20/15 11:18	37.276	-97.854	1.1	3.4	3.1	12.2
7/20/15 14:19	37.168	-98.020	1.8	2.5	1.3	17.2
7/20/15 17:19	37.058	-97.929	1.4	2.5	1.9	14.0
7/20/15 17:38	37.379	-97.724	1.9	2.0	2.1	14.6
7/20/15 17:53	37.436	-98.704	1.5	1.4	1.6	13.3
7/20/15 18:46	37.091	-97.794	1.3	1.4	0.9	12.7
7/20/15 19:35	37.069	-97.860	2.2	2.3	1.6	19.8
7/21/15 1:38	37.032	-97.922	1.4	3.0	2.1	16.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/21/15 9:34	37.233	-97.951	1.8	1.5	2.3	18.2
7/21/15 9:36	37.296	-97.621	1.3	1.8	2.0	13.7
7/21/15 9:39	37.287	-97.631	1.0	1.6	2.1	13.0
7/21/15 10:40	37.113	-97.836	2.2	1.7	1.6	16.8
7/21/15 11:49	37.191	-97.907	1.8	1.9	1.6	17.2
7/21/15 14:53	37.180	-97.907	1.6	2.0	2.1	16.6
7/21/15 19:11	37.117	-97.767	1.7	1.9	2.1	13.9
7/21/15 21:48	37.223	-97.968	2.0	2.5	1.8	19.0
7/21/15 21:58	37.052	-97.931	1.9	2.2	1.3	18.6
7/21/15 22:55	37.022	-97.965	1.8	2.4	1.3	18.2
7/22/15 0:04	37.007	-97.616	2.0	2.9	2.0	15.0
7/22/15 3:17	37.016	-97.945	2.6	2.0	1.2	19.8
7/22/15 3:36	37.032	-97.942	2.1	2.3	1.5	19.4
7/22/15 9:13	37.315	-98.152	2.0	1.7	1.1	15.0
7/22/15 11:14	37.436	-98.692	1.6	1.3	1.3	16.6
7/22/15 12:04	37.447	-98.723	2.1	1.5	1.7	17.4
7/22/15 12:12	37.233	-98.064	1.7	3.0	1.5	14.9
7/22/15 12:28	37.354	-97.796	1.8	1.8	1.6	14.2
7/22/15 13:20	37.012	-97.949	2.1	4.8	3.1	19.4
7/22/15 13:24	37.038	-97.952	1.9	2.7	1.8	18.6
7/22/15 13:28	37.459	-98.737	1.5	1.6	2.0	14.3
7/22/15 13:51	37.035	-97.966	1.6	2.7	2.1	17.6
7/22/15 13:55	37.029	-98.810	1.7	4.0	2.1	13.9
7/22/15 16:44	37.069	-97.860	1.5	5.6	3.3	17.3
7/22/15 17:21	37.019	-97.943	2.4	2.5	1.5	20.8
7/22/15 17:25	37.029	-97.941	1.6	2.0	1.4	17.6
7/22/15 21:25	37.437	-98.687	2.1	1.3	1.3	17.4
7/22/15 21:47	37.190	-97.535	1.3	1.3	1.6	13.7
7/22/15 22:58	37.295	-97.515	1.2	3.0	3.0	15.4
7/22/15 23:04	37.187	-97.542	2.1	1.5	1.9	18.4
7/23/15 1:10	37.291	-97.584	1.3	3.0	3.7	15.7
7/23/15 1:11	37.190	-97.652	2.0	2.5	2.0	19.0
7/23/15 2:27	37.291	-97.605	1.4	1.8	1.9	17.0
7/23/15 3:18	37.193	-97.534	2.0	2.0	1.7	19.0
7/23/15 7:50	37.081	-98.681	1.8	2.2	1.5	8.2
7/23/15 8:12	37.033	-97.942	2.1	2.6	1.4	19.4
7/23/15 8:54	37.044	-97.951	2.0	2.2	1.5	19.0
7/23/15 9:03	37.151	-98.803	2.3	2.0	1.3	10.3
7/23/15 9:57	37.197	-97.525	1.9	1.7	2.1	18.6
7/23/15 10:45	37.251	-97.605	1.9	1.4	1.8	18.6
7/23/15 12:18	37.155	-97.788	2.1	2.1	1.4	16.4
7/23/15 12:46	37.058	-97.937	2.2	2.2	1.3	19.8
7/23/15 13:08	37.101	-97.714	1.2	1.3	0.9	12.4
7/23/15 17:34	37.065	-97.971	2.5	1.6	1.1	20.3
7/23/15 21:12	37.349	-97.671	1.9	1.9	2.3	16.6
7/23/15 21:25	37.247	-97.604	1.6	1.9	2.4	17.6
7/23/15 21:51	37.249	-97.610	2.1	1.4	1.4	19.4
7/23/15 22:16	37.373	-97.726	2.0	1.2	1.2	16.0
7/23/15 22:32	37.249	-98.133	2.1	2.8	1.8	16.4
7/23/15 22:45	37.440	-98.677	1.6	1.5	1.4	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/24/15 0:25	37.186	-97.741	1.5	1.6	2.8	16.3
7/24/15 1:02	37.078	-97.860	1.7	1.9	1.5	17.9
7/24/15 1:05	37.149	-97.786	1.9	1.6	1.2	18.6
7/24/15 1:47	37.163	-97.781	1.9	2.3	1.6	17.6
7/24/15 1:51	37.240	-98.121	1.9	1.6	1.0	15.6
7/24/15 2:25	37.442	-98.686	1.9	1.3	1.3	17.6
7/24/15 4:20	37.380	-97.622	1.2	5.5	7.4	12.4
7/24/15 5:03	37.092	-97.559	1.7	1.7	1.3	13.9
7/24/15 5:08	37.025	-98.811	1.8	3.4	2.0	15.2
7/24/15 5:41	37.193	-98.590	2.5	2.1	1.2	17.3
7/24/15 5:43	37.188	-98.581	2.6	2.2	1.4	16.8
7/24/15 6:55	37.184	-98.581	2.0	2.0	1.5	17.0
7/24/15 7:18	37.371	-98.138	2.0	3.4	1.7	15.0
7/24/15 7:26	37.176	-98.581	1.9	1.3	0.9	17.6
7/24/15 7:36	37.047	-97.914	1.8	5.7	3.6	18.2
7/24/15 7:42	37.444	-98.701	1.3	2.0	2.4	14.7
7/24/15 8:25	37.445	-98.695	1.7	1.6	1.6	17.9
7/24/15 8:37	37.443	-98.692	1.9	0.7	1.2	17.6
7/24/15 9:05	37.062	-97.853	1.9	1.0	0.9	18.6
7/24/15 9:57	37.023	-97.956	2.1	3.2	1.6	19.4
7/24/15 12:07	37.579	-97.765	1.5	6.3	5.6	14.3
7/24/15 13:39	37.185	-98.579	2.0	2.0	1.3	19.0
7/24/15 14:15	37.168	-98.584	2.6	1.8	0.9	20.8
7/24/15 15:28	37.129	-97.883	1.5	4.2	3.7	17.3
7/24/15 16:58	37.200	-97.629	1.5	1.5	2.2	16.3
7/24/15 18:55	37.198	-98.574	2.2	3.1	1.8	19.8
7/24/15 19:48	37.062	-97.926	1.7	2.8	2.3	17.9
7/24/15 21:17	37.540	-97.805	1.0	2.2	2.1	13.0
7/25/15 0:11	37.048	-98.796	1.7	3.2	2.0	14.9
7/25/15 4:30	37.241	-97.664	1.6	2.9	3.8	15.6
7/25/15 4:34	37.261	-97.629	1.7	2.6	2.5	15.9
7/25/15 12:25	37.388	-97.723	0.9	3.8	5.2	11.8
7/25/15 16:46	37.201	-98.590	2.1	3.1	2.1	17.4
7/25/15 16:54	37.077	-97.708	1.8	1.5	1.3	15.2
7/25/15 17:29	37.267	-98.583	1.9	3.8	1.1	16.6
7/25/15 21:09	37.093	-97.870	1.9	1.4	1.4	18.6
7/26/15 2:19	37.099	-98.033	1.8	2.3	1.4	15.2
7/26/15 2:47	37.060	-97.911	1.8	1.9	1.7	18.2
7/26/15 3:20	37.212	-97.933	2.1	2.1	3.2	19.4
7/26/15 5:10	37.025	-97.972	1.9	1.9	1.2	18.6
7/26/15 5:57	37.123	-97.845	1.9	2.0	2.3	18.6
7/26/15 6:00	37.103	-97.858	1.8	2.6	1.6	18.2
7/26/15 7:13	37.120	-97.836	1.7	2.9	3.6	17.9
7/26/15 7:18	37.119	-97.821	1.5	1.6	2.3	17.3
7/26/15 7:44	37.202	-97.996	1.9	1.7	1.1	18.6
7/26/15 11:02	37.126	-97.644	1.7	3.3	3.1	15.9
7/26/15 13:14	37.030	-97.949	1.8	2.5	1.3	18.2
7/26/15 13:54	37.102	-98.026	1.8	5.6	2.9	16.2
7/26/15 15:30	37.235	-97.962	1.9	1.5	1.1	18.6
7/26/15 16:08	37.161	-97.831	1.8	1.0	0.9	18.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/26/15 16:40	37.162	-97.829	2.1	1.2	1.1	18.4
7/26/15 16:40	37.170	-97.849	1.2	3.4	4.7	16.4
7/26/15 16:48	37.241	-98.035	2.0	1.9	0.9	19.0
7/26/15 18:10	37.050	-97.918	1.6	3.4	1.8	17.6
7/26/15 18:42	37.279	-97.973	1.7	2.7	1.5	17.9
7/26/15 20:59	37.106	-97.867	1.5	2.1	1.5	17.3
7/26/15 22:36	37.165	-97.836	1.8	0.9	0.7	18.2
7/26/15 22:41	37.273	-98.047	1.7	3.0	2.0	17.9
7/27/15 0:05	37.091	-97.621	1.7	1.8	1.6	14.9
7/27/15 0:46	37.035	-97.835	1.8	2.0	1.5	18.2
7/27/15 2:14	37.053	-97.843	2.1	3.4	1.9	19.4
7/27/15 3:43	37.102	-98.006	2.2	2.6	1.6	18.8
7/27/15 5:12	37.149	-97.820	1.5	1.3	0.8	17.3
7/27/15 5:15	37.576	-97.779	2.0	1.7	1.2	16.0
7/27/15 5:40	37.393	-98.878	1.6	1.8	2.6	7.6
7/27/15 5:54	37.576	-97.790	1.7	2.8	1.8	14.9
7/27/15 7:41	37.103	-97.881	1.5	1.9	1.4	17.3
7/27/15 7:58	37.154	-97.822	1.5	1.4	1.8	17.3
7/27/15 10:37	37.015	-98.391	1.6	6.0	2.0	5.6
7/27/15 11:53	37.135	-97.769	1.3	4.3	3.0	16.7
7/27/15 12:21	37.390	-98.117	1.5	2.6	1.8	13.3
7/27/15 15:33	37.066	-97.814	1.9	2.3	1.8	18.6
7/27/15 17:20	37.128	-97.971	1.5	2.4	1.2	16.3
7/28/15 1:53	37.154	-97.825	2.3	2.0	1.5	15.3
7/28/15 8:57	37.017	-97.587	1.2	1.6	1.6	14.4
7/28/15 9:42	37.021	-97.810	1.6	2.9	2.0	15.6
7/28/15 10:53	37.122	-98.036	1.3	2.6	1.9	15.7
7/28/15 12:01	37.021	-97.590	1.1	1.7	1.7	14.2
7/28/15 12:57	37.006	-97.603	2.0	2.0	1.4	15.0
7/28/15 13:36	37.161	-97.821	1.7	1.6	2.0	16.9
7/28/15 17:21	37.160	-97.830	1.5	1.0	0.9	16.3
7/28/15 17:26	37.149	-97.826	1.7	2.9	1.9	16.9
7/28/15 17:37	37.179	-97.772	1.5	2.2	1.9	16.3
7/29/15 3:39	37.105	-97.638	1.9	1.7	1.3	14.6
7/29/15 4:21	37.042	-97.597	1.3	2.8	2.2	14.7
7/29/15 4:59	37.392	-97.722	1.9	1.5	1.3	14.6
7/29/15 6:22	37.266	-97.596	1.5	1.5	1.5	14.3
7/29/15 6:30	37.189	-97.989	2.4	2.0	1.4	18.8
7/29/15 6:33	37.054	-97.799	2.1	2.5	1.9	16.4
7/29/15 8:04	37.222	-97.993	1.7	1.3	2.0	17.9
7/29/15 8:08	37.115	-97.479	1.4	1.9	1.9	14.0
7/29/15 10:04	37.106	-98.072	1.8	1.8	1.4	18.2
7/29/15 10:15	37.147	-98.057	1.8	2.7	1.6	18.2
7/29/15 11:19	37.156	-97.450	1.4	1.8	2.0	14.0
7/29/15 13:36	37.087	-98.009	1.9	2.3	1.4	18.6
7/29/15 13:39	37.103	-98.005	2.3	2.6	1.6	20.3
7/29/15 14:35	37.100	-98.016	2.3	2.7	1.8	20.3
7/29/15 20:32	37.252	-97.593	1.4	1.3	1.6	14.0
7/29/15 22:07	37.242	-98.016	1.9	2.9	2.0	18.6
7/29/15 22:34	37.200	-97.969	1.5	2.9	1.6	17.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
7/29/15 23:45	37.217	-97.975	1.9	2.2	1.8	18.6
7/30/15 0:26	37.155	-97.813	1.9	2.2	1.7	16.6
7/30/15 7:30	37.279	-97.997	1.5	1.6	1.2	17.3
7/30/15 7:56	37.002	-97.913	1.7	2.6	1.7	13.9
7/30/15 9:22	37.283	-97.991	1.9	1.6	1.2	18.6
7/30/15 12:19	37.100	-97.868	1.8	2.0	1.4	18.2
7/30/15 18:41	37.111	-97.858	1.9	1.6	1.0	18.6
7/30/15 19:49	37.242	-97.879	1.7	2.1	1.9	16.9
7/30/15 22:56	37.264	-97.897	1.9	2.0	1.6	18.6
7/30/15 23:46	37.256	-98.023	1.6	2.5	1.8	16.6
7/31/15 1:30	37.445	-98.710	2.0	1.1	1.2	16.0
7/31/15 2:54	37.420	-97.941	2.0	1.2	0.9	16.0
7/31/15 3:52	37.409	-97.963	2.3	1.8	1.2	17.3
7/31/15 4:14	37.445	-98.696	2.0	1.9	1.9	16.0
7/31/15 4:28	37.241	-97.570	1.6	4.1	3.4	15.6
7/31/15 4:32	37.094	-97.875	1.6	1.4	1.0	17.6
7/31/15 5:27	37.103	-97.626	2.2	2.2	1.6	14.8
7/31/15 6:35	37.246	-97.603	1.3	2.7	3.5	13.7
7/31/15 7:35	37.277	-97.503	2.0	2.2	1.8	16.0
7/31/15 11:37	37.065	-97.909	1.5	3.3	1.9	17.3
7/31/15 14:03	37.308	-97.469	0.5	4.8	5.9	14.3
7/31/15 14:34	37.124	-97.969	2.0	2.2	1.6	18.0
7/31/15 15:13	37.309	-97.474	1.0	4.9	5.8	14.0
7/31/15 15:18	37.320	-97.451	0.4	2.3	2.4	13.2
7/31/15 18:45	37.229	-98.004	2.0	2.1	1.7	17.0
7/31/15 23:47	37.190	-97.967	1.5	1.8	1.0	15.3
7/31/15 23:50	37.318	-97.461	0.9	5.7	6.5	14.8
8/1/15 2:33	37.260	-97.880	2.2	2.9	1.8	15.8
8/1/15 8:55	37.422	-98.919	2.1	1.5	1.9	11.4
8/1/15 9:09	37.096	-97.633	1.9	3.7	2.3	15.6
8/1/15 12:45	37.041	-97.763	1.9	2.7	1.7	15.6
8/1/15 20:01	37.261	-97.593	1.5	1.3	1.6	13.3
8/1/15 20:42	37.108	-97.854	1.8	2.2	1.7	18.2
8/1/15 21:44	37.851	-98.210	1.9	4.7	1.3	6.6
8/1/15 22:46	37.139	-97.837	1.9	2.9	1.9	18.6
8/1/15 23:41	37.110	-97.627	2.1	1.6	1.4	18.4
8/2/15 1:13	37.059	-97.773	2.1	2.0	1.4	19.4
8/2/15 1:40	37.133	-97.744	1.6	1.9	1.6	17.6
8/2/15 2:38	37.097	-98.022	2.2	1.9	1.3	15.8
8/2/15 3:00	37.161	-97.821	2.1	2.3	1.8	18.4
8/2/15 7:47	37.174	-98.587	2.5	2.1	1.2	17.3
8/2/15 7:58	37.172	-98.583	1.8	2.1	1.2	14.2
8/2/15 12:24	37.123	-97.603	1.7	2.0	1.6	17.9
8/2/15 13:37	37.094	-97.862	1.9	2.3	1.8	18.6
8/2/15 14:03	37.090	-97.845	2.4	2.4	1.5	20.8
8/2/15 18:32	37.168	-97.766	1.6	1.5	1.3	17.6
8/2/15 19:37	37.232	-98.132	2.1	2.4	1.4	19.4
8/2/15 22:05	37.118	-97.628	1.9	2.2	1.7	18.6
8/2/15 22:59	37.239	-98.136	2.4	1.7	1.0	20.8
8/2/15 23:12	37.236	-98.131	1.8	2.3	1.6	18.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/2/15 23:20	37.190	-97.992	1.9	3.4	1.9	14.6
8/2/15 23:32	37.244	-98.139	1.7	1.7	0.8	17.9
8/3/15 1:15	37.208	-97.861	2.1	2.0	1.5	17.4
8/3/15 1:25	37.288	-98.902	1.9	1.9	1.8	8.6
8/3/15 1:41	37.322	-97.511	1.4	3.3	3.8	14.0
8/3/15 2:51	37.714	-98.303	1.9	5.1	1.6	10.6
8/3/15 3:16	37.114	-97.609	1.8	1.1	0.8	18.2
8/3/15 5:14	37.219	-98.121	2.4	2.9	1.9	20.8
8/3/15 7:57	37.157	-98.157	1.7	3.7	1.7	17.9
8/3/15 8:16	37.216	-98.109	2.1	2.9	1.9	19.4
8/3/15 9:02	37.091	-97.793	2.1	3.3	2.1	18.4
8/3/15 9:06	37.577	-97.774	2.0	1.8	1.2	15.0
8/3/15 9:35	37.132	-97.594	1.9	2.2	1.8	18.6
8/3/15 10:51	37.258	-98.127	1.9	1.7	1.3	18.6
8/3/15 16:33	37.338	-97.498	1.4	3.7	4.4	15.0
8/3/15 19:43	37.302	-97.501	0.4	3.9	4.5	11.2
8/3/15 22:25	37.129	-97.593	1.9	3.0	2.3	18.6
8/3/15 23:05	37.231	-98.128	1.9	2.5	1.6	18.6
8/4/15 1:12	37.450	-98.713	1.9	0.7	0.9	14.6
8/4/15 1:39	37.299	-98.272	1.7	2.9	1.9	7.9
8/4/15 4:05	37.123	-98.005	1.9	3.8	2.0	15.6
8/4/15 4:09	37.470	-97.848	0.7	2.6	3.2	11.5
8/4/15 4:33	37.344	-97.496	2.0	1.7	1.5	16.0
8/4/15 4:34	37.336	-97.493	1.9	2.2	2.1	16.6
8/4/15 5:04	37.208	-98.057	2.0	2.8	1.9	19.0
8/4/15 7:51	37.202	-97.763	2.1	1.8	1.4	15.4
8/4/15 9:33	37.156	-98.155	1.7	5.0	2.5	14.9
8/4/15 9:43	37.118	-98.032	1.7	3.0	2.0	14.9
8/4/15 10:05	37.367	-98.029	2.0	1.5	1.0	16.0
8/4/15 11:02	37.368	-98.041	2.0	1.3	0.8	16.0
8/4/15 13:27	37.084	-97.560	1.9	2.6	2.0	17.6
8/4/15 15:51	37.232	-98.126	2.2	3.7	2.2	19.8
8/4/15 16:31	37.030	-97.961	2.3	3.0	1.5	17.3
8/4/15 21:56	37.094	-97.516	1.5	7.8	6.8	15.3
8/4/15 22:40	37.241	-97.599	1.6	1.9	2.0	14.6
8/5/15 1:51	37.301	-98.134	2.1	2.5	1.7	19.4
8/5/15 3:14	37.126	-97.629	2.1	2.5	1.8	15.4
8/5/15 3:46	37.075	-97.731	2.0	2.5	1.8	16.0
8/5/15 8:51	37.313	-98.157	2.5	2.8	1.7	19.3
8/5/15 9:06	37.238	-97.657	1.9	1.9	1.4	15.6
8/5/15 9:52	37.486	-98.690	2.0	1.6	1.9	19.0
8/5/15 9:56	37.433	-98.680	1.4	2.5	2.4	17.0
8/5/15 9:57	37.435	-98.690	1.9	2.0	1.9	18.6
8/5/15 10:19	37.071	-97.912	2.3	1.7	1.1	20.3
8/5/15 10:51	37.451	-98.704	1.8	2.3	2.2	18.2
8/5/15 11:06	37.090	-97.860	1.7	2.3	1.7	17.9
8/5/15 11:10	37.110	-97.880	2.3	3.2	2.0	20.3
8/5/15 11:30	37.220	-98.096	2.1	2.9	2.0	19.4
8/5/15 11:57	37.457	-98.737	1.6	1.3	1.7	17.6
8/5/15 12:00	37.073	-97.915	1.4	2.7	1.9	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/5/15 13:57	37.151	-98.044	1.8	1.7	1.2	15.2
8/5/15 14:12	37.436	-98.704	2.0	1.7	1.6	19.0
8/5/15 14:16	37.057	-97.904	1.6	2.5	1.5	17.6
8/5/15 14:16	37.193	-97.796	1.3	5.6	7.1	12.7
8/5/15 14:22	37.118	-97.878	1.7	3.3	2.0	17.9
8/5/15 14:35	37.126	-97.817	1.9	2.0	2.8	18.6
8/5/15 14:52	37.234	-98.127	2.1	2.4	1.5	19.4
8/5/15 18:15	37.203	-97.871	2.1	2.4	1.8	19.4
8/5/15 22:10	37.115	-97.881	2.0	1.9	1.2	19.0
8/6/15 1:25	37.251	-97.992	1.6	3.1	1.8	17.6
8/6/15 2:12	37.227	-98.122	2.0	1.3	0.8	19.0
8/6/15 3:55	37.266	-98.021	1.7	1.4	1.0	17.9
8/6/15 4:09	37.029	-97.943	2.1	2.0	1.3	17.4
8/6/15 5:08	37.331	-97.501	1.2	2.6	3.0	13.4
8/6/15 5:50	37.001	-97.499	1.9	3.0	2.2	14.6
8/6/15 8:43	37.405	-98.606	1.5	3.0	2.9	17.3
8/6/15 9:14	37.119	-97.764	2.0	3.2	2.1	19.0
8/6/15 9:42	37.177	-97.834	2.2	2.7	1.8	19.8
8/6/15 9:53	37.312	-97.949	1.7	1.8	3.0	17.9
8/6/15 9:59	37.271	-98.111	1.4	2.8	2.1	17.0
8/6/15 10:01	37.312	-98.136	1.8	2.7	1.5	17.2
8/6/15 10:12	37.134	-97.895	1.9	2.2	2.6	18.6
8/6/15 10:41	37.518	-97.776	1.9	2.1	1.6	14.6
8/6/15 11:25	37.282	-97.966	2.1	2.2	1.8	19.4
8/6/15 11:29	37.114	-97.867	1.5	1.9	2.4	17.3
8/6/15 11:41	37.438	-98.700	1.9	1.3	1.2	18.6
8/6/15 11:52	37.439	-98.700	1.9	1.6	1.5	18.6
8/6/15 11:58	37.428	-98.675	1.1	1.2	1.3	13.2
8/6/15 16:31	37.254	-98.022	1.8	2.1	1.6	18.2
8/6/15 16:57	37.161	-97.836	1.9	2.9	1.8	18.6
8/6/15 18:32	37.437	-98.692	2.1	1.8	1.7	18.4
8/6/15 18:36	37.436	-98.700	1.7	1.8	1.7	17.9
8/6/15 20:07	37.226	-97.725	1.8	1.4	1.5	14.2
8/6/15 21:18	37.226	-97.973	1.6	1.4	2.3	17.6
8/6/15 22:05	37.221	-98.017	1.5	1.8	1.0	17.3
8/7/15 0:02	37.331	-97.505	1.2	2.5	2.9	16.4
8/7/15 0:08	37.230	-98.027	1.8	2.1	1.4	18.2
8/7/15 1:04	37.152	-97.810	1.1	2.9	2.1	13.2
8/7/15 2:04	37.238	-97.560	0.7	1.6	2.0	11.5
8/7/15 6:33	37.049	-97.878	2.2	3.2	2.0	19.8
8/7/15 7:29	37.042	-97.922	1.7	3.0	1.9	17.9
8/7/15 8:14	37.046	-97.881	2.1	2.7	1.6	19.4
8/7/15 8:21	37.025	-98.847	1.8	1.7	1.2	14.2
8/7/15 8:41	37.039	-97.858	2.0	1.6	1.2	19.0
8/7/15 12:24	37.079	-97.817	1.8	2.9	1.8	18.2
8/7/15 15:49	37.065	-97.852	2.3	2.8	1.8	20.3
8/7/15 16:35	37.010	-97.580	2.0	2.3	1.6	18.0
8/7/15 18:03	37.333	-97.511	1.5	2.9	3.4	16.3
8/7/15 18:17	37.333	-97.501	1.2	2.7	3.2	16.4
8/7/15 20:21	37.010	-97.565	2.0	2.8	1.9	18.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/7/15 20:54	37.104	-97.863	1.8	1.9	2.2	18.2
8/7/15 22:46	37.607	-97.697	1.8	1.9	1.7	15.2
8/7/15 23:09	37.333	-97.501	1.4	2.2	2.4	17.0
8/7/15 23:20	37.553	-97.757	2.0	1.8	1.8	17.0
8/7/15 23:33	37.010	-97.564	2.2	2.4	1.8	18.8
8/8/15 0:21	37.094	-97.855	2.1	2.7	1.7	19.4
8/8/15 0:27	37.044	-97.549	2.2	2.5	2.1	19.8
8/8/15 1:09	37.090	-97.871	2.1	2.2	1.7	19.4
8/8/15 6:38	37.514	-97.806	1.3	1.8	1.9	13.7
8/8/15 8:30	37.529	-97.766	1.5	1.8	1.8	15.3
8/8/15 9:35	37.023	-97.856	1.4	3.1	2.2	16.0
8/8/15 10:47	37.323	-97.515	0.9	2.0	2.3	14.8
8/8/15 11:28	37.092	-97.767	1.9	1.9	1.5	18.6
8/8/15 13:57	37.072	-97.921	2.3	1.3	0.8	20.3
8/8/15 16:36	37.126	-97.962	1.8	2.2	1.6	18.2
8/8/15 17:58	37.165	-97.838	1.7	1.5	1.0	17.9
8/8/15 18:37	37.089	-97.614	1.9	2.8	2.0	15.6
8/8/15 20:00	37.060	-97.903	2.0	2.6	1.9	19.0
8/8/15 22:41	37.088	-98.020	1.7	1.9	1.0	15.9
8/9/15 0:49	37.063	-98.793	1.5	5.9	3.6	13.3
8/9/15 2:28	37.338	-98.169	2.2	1.9	1.2	19.8
8/9/15 3:54	37.075	-97.839	1.1	6.0	4.6	13.2
8/9/15 6:03	37.289	-97.517	1.5	1.5	1.7	14.3
8/9/15 6:34	37.284	-97.510	1.3	1.6	2.0	14.7
8/9/15 9:17	37.427	-98.918	1.7	1.6	1.9	12.9
8/9/15 10:00	37.308	-98.157	2.1	2.5	1.5	19.4
8/9/15 13:37	37.155	-97.828	2.0	2.1	1.7	17.0
8/9/15 14:59	37.170	-97.773	2.3	1.9	1.7	17.3
8/9/15 16:12	37.305	-98.152	2.1	2.4	1.5	19.4
8/9/15 16:46	37.613	-97.752	1.8	2.4	1.8	14.2
8/9/15 18:12	37.046	-97.907	2.3	3.1	2.0	18.3
8/9/15 19:08	37.000	-97.498	2.0	2.3	1.6	15.0
8/9/15 19:17	37.306	-98.142	2.3	3.0	1.9	20.3
8/9/15 20:04	37.307	-98.104	1.8	2.8	2.1	18.2
8/9/15 21:37	37.119	-98.041	1.9	3.6	1.9	15.6
8/9/15 22:23	37.059	-97.901	2.0	2.5	1.5	16.0
8/9/15 23:00	37.246	-97.972	1.9	2.4	1.7	15.6
8/10/15 1:27	37.423	-98.927	1.4	1.1	1.6	14.0
8/10/15 4:57	37.294	-98.137	1.9	2.3	1.5	18.6
8/10/15 5:52	37.229	-97.994	2.3	2.5	1.6	19.3
8/10/15 6:21	37.404	-98.604	1.5	2.5	2.6	14.3
8/10/15 8:06	37.229	-98.165	1.9	2.7	1.9	18.6
8/10/15 16:21	37.238	-98.176	1.9	2.1	1.3	17.6
8/10/15 18:47	37.107	-97.637	2.0	2.5	1.6	18.0
8/10/15 20:26	37.359	-98.099	1.7	2.8	2.0	15.9
8/10/15 22:21	37.418	-98.628	1.4	1.7	1.6	14.0
8/11/15 0:56	37.243	-98.001	1.9	2.3	1.9	16.6
8/11/15 3:01	37.232	-97.677	1.7	1.8	2.3	13.9
8/11/15 3:31	37.417	-98.167	2.1	2.8	1.6	16.4
8/11/15 5:07	37.083	-97.517	1.9	2.1	1.4	15.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/11/15 5:25	37.262	-98.005	1.9	1.7	1.4	17.6
8/11/15 5:27	37.069	-97.522	1.5	1.7	1.1	15.3
8/11/15 6:45	37.115	-97.619	1.8	2.8	1.9	18.2
8/11/15 6:47	37.122	-97.568	1.3	2.4	2.2	14.7
8/11/15 7:21	37.071	-97.666	1.5	2.1	1.4	16.3
8/11/15 9:01	37.154	-97.959	1.8	1.8	1.4	15.2
8/11/15 9:41	37.305	-97.528	1.0	3.3	3.7	13.0
8/11/15 12:28	37.109	-97.639	2.0	2.0	1.4	18.0
8/11/15 13:08	37.569	-97.816	1.7	2.9	2.0	13.9
8/11/15 16:32	37.100	-97.836	1.9	1.7	1.2	17.6
8/11/15 17:21	37.050	-97.914	2.0	2.3	1.6	19.0
8/11/15 18:20	37.326	-97.796	2.0	2.5	1.9	15.0
8/11/15 19:12	37.020	-97.966	1.8	3.3	2.3	18.2
8/11/15 21:15	37.052	-97.915	1.6	2.4	1.4	17.6
8/11/15 21:29	37.062	-97.922	1.8	3.0	1.8	18.2
8/11/15 22:31	37.317	-97.488	1.0	3.8	4.1	13.0
8/12/15 4:47	37.232	-98.019	1.7	2.5	1.8	17.9
8/12/15 5:40	37.048	-97.943	1.6	4.1	2.2	17.6
8/12/15 7:25	37.006	-97.604	2.4	2.7	1.8	18.8
8/12/15 7:39	37.080	-97.524	1.1	2.0	2.0	14.2
8/12/15 8:16	37.067	-97.531	2.1	1.9	1.4	19.4
8/12/15 8:30	37.069	-97.953	2.2	1.3	0.9	19.8
8/12/15 9:38	37.395	-97.630	1.1	2.4	3.9	12.2
8/12/15 14:24	37.013	-97.608	1.8	2.4	1.7	18.2
8/12/15 15:37	37.245	-97.993	2.1	2.9	1.9	18.4
8/12/15 16:20	37.154	-97.490	1.6	2.1	2.0	17.6
8/12/15 16:26	37.245	-98.008	2.0	2.8	1.8	18.0
8/12/15 18:03	37.287	-97.938	1.3	3.0	2.4	15.7
8/12/15 18:30	37.158	-97.827	1.9	2.2	1.4	18.6
8/12/15 18:53	37.266	-97.973	1.7	2.8	1.7	17.9
8/12/15 19:01	37.159	-97.809	1.4	2.8	3.5	17.0
8/12/15 19:30	37.071	-97.801	1.1	1.8	2.0	13.2
8/12/15 21:07	37.165	-97.849	1.9	1.3	1.1	18.6
8/12/15 21:29	37.018	-97.594	2.1	1.9	1.3	19.4
8/12/15 22:32	37.368	-97.770	2.5	2.0	1.9	17.3
8/12/15 23:04	37.072	-97.520	1.7	1.4	1.1	17.9
8/12/15 23:25	37.601	-97.824	1.8	9.5	2.8	14.2
8/12/15 23:56	37.153	-97.834	2.0	2.0	1.5	19.0
8/13/15 0:03	37.181	-97.825	1.9	2.8	1.8	18.6
8/13/15 1:08	37.160	-97.585	1.2	1.4	1.6	16.4
8/13/15 1:26	37.113	-97.596	1.4	2.3	1.6	17.0
8/13/15 1:58	37.044	-98.412	1.5	3.5	1.8	7.3
8/13/15 2:04	37.244	-98.689	1.7	3.0	2.2	9.9
8/13/15 3:58	37.022	-97.587	1.8	2.6	1.6	18.2
8/13/15 6:02	37.265	-98.021	1.4	3.0	2.0	15.0
8/13/15 7:05	37.096	-97.675	1.5	2.3	1.6	17.3
8/13/15 7:40	37.115	-97.787	1.5	1.2	0.8	17.3
8/13/15 8:49	37.149	-97.572	1.1	1.7	2.1	16.2
8/13/15 11:37	37.093	-97.623	1.6	2.4	1.7	17.6
8/13/15 11:52	37.146	-97.764	1.7	2.3	2.0	17.9

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/13/15 14:52	37.134	-97.604	0.9	1.6	1.9	15.8
8/13/15 15:29	37.036	-97.482	1.2	2.5	1.9	13.4
8/13/15 16:31	37.108	-97.618	1.6	1.5	1.8	17.6
8/14/15 1:16	37.258	-97.599	1.5	1.6	1.6	13.3
8/14/15 1:55	37.516	-98.345	1.4	4.6	2.8	5.0
8/14/15 2:08	37.099	-97.618	1.2	1.7	1.9	16.4
8/14/15 7:32	37.373	-97.776	1.7	2.1	1.7	17.9
8/14/15 8:59	37.369	-97.786	2.1	2.4	1.9	19.4
8/14/15 9:10	37.373	-97.773	1.5	1.2	1.3	17.3
8/14/15 9:11	37.375	-97.737	1.5	1.9	1.8	17.3
8/14/15 10:14	37.349	-97.812	2.1	2.3	1.8	19.4
8/14/15 12:04	37.366	-98.093	1.8	1.6	1.3	14.2
8/14/15 12:12	37.324	-97.478	1.8	2.1	2.0	18.2
8/14/15 12:42	37.131	-97.593	1.5	2.1	1.7	15.3
8/14/15 13:08	37.417	-97.975	1.8	1.0	0.9	14.2
8/14/15 14:48	37.439	-98.684	1.9	1.1	1.1	15.6
8/14/15 15:56	37.357	-97.799	2.1	2.1	1.6	19.4
8/14/15 21:55	37.022	-97.563	2.2	1.9	1.4	16.8
8/14/15 22:30	37.045	-97.533	1.6	1.9	1.8	15.6
8/14/15 22:33	37.360	-97.796	2.3	2.1	1.9	20.3
8/14/15 23:53	37.358	-97.786	1.5	1.1	1.6	17.3
8/15/15 2:11	37.088	-98.289	1.6	2.3	1.2	8.6
8/15/15 2:29	37.438	-98.707	2.0	1.1	1.3	16.0
8/15/15 2:36	37.329	-97.476	0.8	8.5	9.7	15.6
8/15/15 3:14	37.059	-97.887	1.8	2.8	1.8	17.2
8/15/15 4:54	37.311	-97.502	1.6	2.4	2.1	17.6
8/15/15 7:28	37.329	-97.474	2.2	1.5	1.4	17.8
8/15/15 7:39	37.332	-97.462	1.0	11.0	13.1	16.0
8/15/15 7:54	37.382	-97.763	1.6	1.5	1.6	17.6
8/15/15 8:06	37.339	-97.459	1.3	6.3	8.2	16.7
8/15/15 8:11	37.049	-98.292	1.9	3.9	2.3	13.6
8/15/15 8:57	37.086	-98.281	1.7	3.6	2.1	12.9
8/15/15 9:40	37.331	-97.489	0.9	6.2	6.9	15.8
8/15/15 9:56	37.327	-97.487	1.8	3.5	3.3	18.2
8/15/15 10:33	37.083	-98.285	2.0	2.5	1.5	16.0
8/15/15 10:39	37.387	-97.761	1.7	1.8	1.7	17.9
8/15/15 10:46	37.382	-97.756	1.1	2.0	2.0	16.2
8/15/15 10:49	37.361	-97.793	1.6	1.4	1.2	17.6
8/15/15 11:09	37.392	-97.739	2.0	2.0	1.8	19.0
8/15/15 11:17	37.364	-97.767	1.2	1.7	2.5	16.4
8/15/15 11:17	37.204	-97.856	1.9	2.7	1.8	14.6
8/15/15 12:19	37.323	-97.490	0.7	3.2	3.3	15.5
8/15/15 14:09	37.310	-97.483	1.1	2.2	2.6	16.2
8/15/15 14:10	37.035	-97.564	2.0	2.5	1.9	18.0
8/15/15 15:33	37.122	-97.918	1.4	4.2	2.5	17.0
8/15/15 15:45	37.307	-97.483	0.2	2.1	2.5	13.0
8/15/15 16:29	37.333	-97.447	0.5	3.1	3.9	15.3
8/15/15 17:08	37.227	-97.581	1.0	1.6	2.0	15.0
8/15/15 17:40	37.362	-97.779	1.4	2.1	3.1	17.0
8/15/15 17:41	37.371	-97.789	1.2	1.1	1.6	16.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/15/15 18:34	37.336	-98.151	1.8	6.4	2.7	15.2
8/15/15 19:02	37.103	-97.839	1.8	1.5	2.0	18.2
8/15/15 21:36	37.338	-97.872	1.6	2.8	4.0	17.6
8/15/15 22:43	37.579	-97.812	1.4	3.0	2.9	13.0
8/15/15 23:08	37.253	-97.604	1.1	2.4	2.1	16.2
8/15/15 23:10	37.098	-97.837	1.4	1.8	1.1	17.0
8/15/15 23:25	37.257	-98.019	1.9	2.0	1.5	14.6
8/15/15 23:58	37.251	-97.596	1.0	1.6	2.0	16.0
8/16/15 0:09	37.066	-97.731	1.9	2.6	1.9	14.6
8/16/15 1:02	37.244	-97.603	0.9	2.0	2.5	15.8
8/16/15 1:54	37.363	-97.771	1.9	2.0	1.6	18.6
8/16/15 2:15	37.386	-97.742	1.7	1.6	1.7	17.9
8/16/15 6:43	37.057	-97.925	1.9	3.5	2.0	18.6
8/16/15 9:50	37.324	-97.483	2.3	0.9	0.8	19.3
8/16/15 10:34	37.335	-97.464	1.8	5.3	6.3	17.2
8/16/15 12:12	37.319	-97.480	2.1	2.0	1.9	17.4
8/16/15 12:19	37.168	-98.019	1.5	2.9	1.6	16.3
8/16/15 12:49	37.078	-97.506	2.1	1.4	1.1	19.4
8/16/15 13:07	37.308	-97.477	1.0	5.8	6.2	15.0
8/16/15 14:57	37.015	-98.869	1.9	3.4	2.2	16.6
8/16/15 15:40	37.377	-98.117	2.1	1.9	1.5	19.4
8/16/15 16:35	37.091	-98.291	1.9	2.1	0.8	16.6
8/16/15 17:03	37.069	-97.672	1.2	1.9	2.2	13.4
8/16/15 17:29	37.077	-97.520	1.6	2.2	2.2	17.6
8/16/15 17:31	37.087	-97.509	1.6	1.8	1.8	17.6
8/16/15 18:12	37.378	-98.110	2.6	2.5	1.6	17.8
8/16/15 19:06	37.303	-97.565	1.3	1.9	2.3	16.7
8/16/15 19:13	37.391	-98.090	1.9	3.0	2.0	18.6
8/16/15 19:23	37.402	-97.763	1.9	1.7	1.8	17.6
8/16/15 19:33	37.382	-98.103	1.9	4.1	1.8	18.6
8/16/15 19:35	37.380	-98.083	1.8	4.4	2.0	18.2
8/16/15 19:39	37.389	-98.083	1.9	1.9	1.5	18.6
8/16/15 22:11	37.375	-98.124	2.0	2.5	1.9	19.0
8/16/15 22:43	37.267	-97.846	1.8	2.8	2.0	14.2
8/17/15 0:17	37.007	-98.839	1.9	3.0	1.6	16.6
8/17/15 1:31	37.106	-98.635	1.5	8.0	4.6	13.3
8/17/15 1:35	37.119	-97.818	1.8	2.6	1.6	15.2
8/17/15 2:10	37.071	-97.940	2.1	1.4	1.0	17.4
8/17/15 2:21	37.131	-97.765	1.4	3.1	4.7	14.0
8/17/15 2:46	37.080	-97.565	1.6	4.4	3.9	17.6
8/17/15 5:23	37.140	-98.048	1.4	1.2	1.4	16.0
8/17/15 5:44	37.481	-97.792	1.4	3.2	3.0	14.0
8/17/15 5:48	37.375	-98.124	1.6	1.4	1.1	17.6
8/17/15 6:51	37.003	-97.957	1.8	1.8	1.3	15.2
8/17/15 7:11	37.093	-98.299	1.9	4.0	1.6	16.6
8/17/15 7:19	37.378	-98.103	2.0	1.1	0.8	19.0
8/17/15 9:25	37.147	-98.012	1.3	2.3	1.9	15.7
8/17/15 9:27	37.390	-98.077	1.7	1.9	3.7	17.9
8/17/15 11:03	37.093	-98.201	1.4	2.4	4.9	15.0
8/17/15 11:09	37.182	-98.040	1.8	1.3	1.1	18.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/17/15 11:35	37.067	-97.526	1.3	1.7	1.7	15.7
8/17/15 11:42	37.074	-98.840	1.4	4.1	3.4	15.0
8/17/15 11:57	37.366	-98.120	1.9	1.8	1.4	18.6
8/17/15 18:00	37.329	-97.472	0.4	8.6	9.6	11.2
8/17/15 22:15	37.241	-98.059	1.4	3.0	1.9	15.0
8/17/15 22:39	37.291	-97.491	1.1	1.4	1.7	14.2
8/18/15 0:17	37.327	-97.486	1.4	6.0	6.6	15.0
8/18/15 4:35	37.328	-97.867	1.8	1.1	1.4	16.2
8/18/15 5:06	37.330	-97.473	1.2	8.5	9.7	14.4
8/18/15 7:33	37.251	-98.060	1.7	1.4	1.2	16.9
8/18/15 12:07	37.563	-97.757	1.3	2.4	1.9	12.7
8/18/15 12:11	37.512	-97.784	0.7	2.8	2.3	11.5
8/18/15 12:32	37.108	-97.860	2.3	1.7	1.7	19.3
8/18/15 12:33	37.049	-97.557	0.6	1.7	1.7	11.4
8/18/15 12:58	37.124	-97.834	1.5	3.3	4.2	17.3
8/18/15 12:58	37.119	-97.851	1.7	2.7	3.1	17.9
8/18/15 15:21	37.120	-97.846	2.0	2.0	2.5	19.0
8/18/15 15:52	37.073	-97.514	2.1	1.6	1.5	16.4
8/18/15 15:55	37.105	-97.860	1.6	2.0	2.6	17.6
8/18/15 15:57	37.099	-97.868	1.7	1.4	1.2	17.9
8/18/15 16:27	37.092	-97.866	1.9	1.8	1.2	18.6
8/18/15 17:13	37.365	-97.779	2.1	1.4	2.2	18.4
8/18/15 17:32	37.370	-97.756	1.1	1.9	2.8	12.2
8/18/15 17:48	37.335	-97.867	1.9	1.0	1.2	16.6
8/18/15 20:21	37.367	-97.727	2.0	3.4	3.7	16.0
8/19/15 2:09	37.396	-97.986	1.8	2.4	2.0	17.2
8/19/15 2:40	37.077	-97.893	1.9	3.1	1.9	18.6
8/19/15 3:45	37.381	-98.021	1.5	2.1	1.0	16.3
8/19/15 3:47	37.377	-98.023	1.7	2.8	2.0	16.9
8/19/15 3:55	37.080	-97.864	1.6	2.6	2.8	17.6
8/19/15 6:28	37.247	-98.017	1.6	2.4	2.1	14.6
8/19/15 8:51	37.398	-97.995	1.3	1.1	1.3	15.7
8/19/15 10:19	37.005	-97.576	1.6	5.5	3.4	15.6
8/19/15 10:53	37.027	-97.718	1.4	3.0	2.3	14.0
8/19/15 12:16	37.106	-97.855	1.2	2.8	4.0	16.4
8/19/15 14:31	37.091	-98.271	1.4	5.8	2.3	13.0
8/19/15 21:02	37.050	-97.786	1.7	3.0	3.2	17.9
8/20/15 0:14	37.326	-97.857	1.8	1.5	2.4	15.2
8/20/15 3:41	37.254	-97.552	0.8	1.5	1.6	11.6
8/20/15 3:50	37.090	-98.020	1.8	4.2	2.4	14.2
8/20/15 5:03	37.438	-98.692	1.5	0.8	1.0	16.3
8/20/15 5:04	37.448	-98.724	1.8	1.4	1.8	17.2
8/20/15 5:09	37.019	-98.815	1.4	2.1	2.5	13.0
8/20/15 5:30	37.445	-98.712	1.3	1.0	1.3	16.7
8/20/15 5:32	37.429	-98.651	0.8	5.9	6.5	13.6
8/20/15 5:54	37.434	-98.702	1.3	1.2	1.5	16.7
8/20/15 7:03	37.015	-97.965	1.5	2.7	1.8	13.3
8/20/15 7:34	37.295	-97.574	1.4	2.9	3.5	14.0
8/20/15 8:53	37.066	-97.535	1.7	2.3	2.0	16.9
8/20/15 9:11	37.499	-99.041	0.4	5.2	6.7	3.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/20/15 9:28	37.262	-97.323	0.8	4.5	4.9	3.6
8/20/15 9:40	37.147	-98.119	1.9	2.1	1.4	14.6
8/20/15 13:18	37.061	-97.913	2.6	1.9	1.2	17.8
8/20/15 13:34	37.070	-97.904	2.2	3.4	2.6	16.8
8/20/15 14:28	37.242	-98.816	0.6	3.9	2.3	5.4
8/20/15 15:20	37.026	-97.595	2.0	3.4	2.3	16.0
8/20/15 15:32	37.466	-99.088	1.4	1.9	2.4	7.0
8/20/15 19:02	37.345	-97.566	1.4	2.7	3.4	15.0
8/20/15 19:08	37.357	-97.814	1.7	1.9	2.0	15.9
8/20/15 20:08	37.041	-97.768	2.1	4.6	3.9	16.4
8/20/15 21:30	37.007	-97.488	1.9	1.9	1.6	15.6
8/20/15 23:30	37.097	-98.765	1.4	4.9	3.3	13.0
8/21/15 5:57	37.180	-97.779	2.1	1.7	1.3	15.4
8/21/15 10:50	37.262	-97.590	1.1	1.3	1.6	13.2
8/21/15 11:30	37.308	-97.880	1.4	1.7	2.7	16.0
8/21/15 17:39	37.089	-97.867	1.9	3.4	3.7	18.6
8/21/15 18:05	37.113	-97.950	2.1	3.0	1.9	18.4
8/21/15 18:10	37.113	-97.884	1.4	5.0	6.2	15.0
8/21/15 19:34	37.365	-97.898	0.9	7.4	8.1	12.8
8/21/15 20:58	37.258	-97.725	1.5	2.7	4.0	13.3
8/22/15 0:18	37.248	-97.572	1.7	1.2	1.5	15.9
8/22/15 0:33	37.161	-98.120	0.5	6.0	4.5	11.3
8/22/15 0:56	37.258	-97.552	1.9	2.1	2.5	16.6
8/22/15 3:10	37.229	-98.098	1.9	5.0	3.5	15.6
8/22/15 3:51	37.514	-97.818	0.8	2.5	2.5	12.6
8/22/15 4:04	37.057	-97.921	2.1	2.3	1.6	19.4
8/22/15 4:44	37.115	-97.623	1.7	1.9	2.2	16.9
8/22/15 5:08	37.094	-98.012	2.2	1.9	1.2	17.8
8/22/15 5:57	37.257	-97.962	1.3	2.0	3.0	13.7
8/22/15 7:22	37.096	-97.673	1.8	2.0	2.4	16.2
8/22/15 7:40	37.249	-98.031	2.1	1.6	1.1	17.4
8/22/15 9:10	37.064	-97.537	2.2	2.5	2.1	18.8
8/22/15 9:41	37.050	-97.667	1.2	4.5	5.1	15.4
8/22/15 9:54	37.414	-99.089	1.2	2.2	3.0	6.4
8/22/15 10:11	37.058	-97.655	1.7	3.9	4.5	16.9
8/22/15 11:30	37.240	-97.582	1.5	2.4	2.6	15.3
8/22/15 17:24	37.215	-97.231	0.6	7.5	9.6	4.4
8/22/15 17:35	37.037	-97.895	1.7	3.3	2.1	17.9
8/22/15 21:04	37.061	-97.844	2.0	3.2	3.0	19.0
8/22/15 22:02	37.073	-97.522	2.0	1.4	1.2	19.0
8/22/15 22:48	37.513	-97.819	1.2	3.1	2.8	13.4
8/23/15 2:20	37.201	-97.985	2.3	1.9	3.0	18.3
8/23/15 2:21	37.100	-97.608	1.0	2.7	3.1	15.0
8/23/15 3:17	37.065	-97.526	2.0	3.6	3.1	19.0
8/23/15 4:05	37.055	-97.539	2.1	2.6	2.0	19.4
8/23/15 4:49	37.068	-97.891	1.8	2.5	1.8	18.2
8/23/15 9:19	37.357	-97.950	1.4	1.8	3.0	13.0
8/23/15 9:41	37.030	-97.765	1.1	3.0	2.3	12.2
8/23/15 11:42	37.088	-97.550	1.6	7.0	6.1	17.6
8/23/15 11:45	37.201	-97.244	0.3	7.7	9.2	6.1

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/23/15 12:34	37.442	-98.683	1.9	1.2	1.3	15.6
8/23/15 12:36	37.439	-98.691	1.4	0.8	0.8	14.0
8/23/15 12:57	37.233	-98.017	2.0	1.6	1.1	16.0
8/23/15 14:36	37.263	-97.487	0.8	3.1	4.7	11.6
8/23/15 16:17	37.113	-97.507	1.4	7.6	6.1	17.0
8/23/15 17:13	37.061	-97.916	2.2	2.5	1.6	19.8
8/23/15 18:34	37.081	-97.996	1.6	2.0	1.4	17.6
8/23/15 18:41	37.263	-97.914	1.6	4.4	6.8	14.6
8/23/15 18:46	37.147	-97.549	1.6	1.6	1.9	17.6
8/23/15 20:46	37.163	-97.809	1.6	2.0	2.5	17.6
8/23/15 21:01	37.146	-97.830	1.7	3.2	5.2	17.9
8/23/15 21:05	37.156	-97.825	1.8	1.6	1.5	18.2
8/23/15 22:33	37.267	-97.628	1.2	2.6	2.7	12.4
8/24/15 0:08	37.073	-97.518	1.7	1.9	1.9	17.9
8/24/15 0:10	37.073	-97.592	1.5	7.0	6.7	17.3
8/24/15 2:21	37.089	-97.842	2.0	1.9	1.4	19.0
8/24/15 3:50	37.225	-97.820	1.9	1.4	1.1	18.6
8/24/15 4:50	37.143	-97.568	1.7	3.1	2.8	17.9
8/24/15 5:10	37.520	-97.767	0.9	3.2	2.6	11.8
8/24/15 5:16	37.659	-97.629	0.9	6.3	5.4	5.8
8/24/15 7:04	37.058	-97.914	1.7	1.3	1.0	17.9
8/24/15 7:26	37.078	-97.898	2.0	1.1	0.8	19.0
8/24/15 9:45	37.082	-97.513	1.4	7.9	6.2	17.0
8/24/15 10:20	37.022	-97.563	2.3	1.6	1.3	18.3
8/24/15 10:32	37.069	-97.893	2.1	1.5	0.9	19.4
8/24/15 10:56	37.205	-98.724	1.1	9.2	7.8	8.2
8/24/15 11:42	37.034	-97.535	2.1	4.0	3.3	19.4
8/24/15 15:20	37.328	-97.506	1.1	2.5	2.9	13.2
8/24/15 15:41	37.328	-97.515	0.8	5.0	5.0	12.6
8/24/15 17:55	37.105	-97.616	1.4	3.0	3.4	17.0
8/24/15 18:07	37.173	-98.027	1.8	4.5	3.7	15.2
8/24/15 18:53	37.058	-98.011	1.7	6.0	4.8	16.9
8/24/15 23:07	37.068	-97.521	1.8	1.6	1.2	18.2
8/24/15 23:37	37.270	-98.006	1.7	2.7	1.7	15.9
8/25/15 1:09	37.233	-97.528	1.6	3.2	3.7	15.6
8/25/15 1:16	37.066	-97.529	1.3	2.5	2.2	16.7
8/25/15 3:32	37.021	-97.954	2.0	1.7	0.9	19.0
8/25/15 5:20	37.108	-97.591	2.2	1.6	1.4	18.8
8/25/15 5:30	37.043	-97.857	1.4	3.3	2.5	14.0
8/25/15 5:39	37.246	-97.561	2.1	1.3	1.6	17.4
8/25/15 6:04	37.087	-97.349	0.9	6.4	4.2	3.8
8/25/15 6:43	37.236	-97.183	0.9	4.0	7.6	7.8
8/25/15 8:50	37.238	-97.577	1.9	2.1	3.1	17.6
8/25/15 10:18	37.520	-97.800	0.8	5.3	4.5	12.6
8/25/15 10:21	37.584	-97.776	0.6	3.7	4.1	12.4
8/25/15 12:12	37.237	-98.004	1.9	1.5	1.2	17.6
8/25/15 13:35	37.074	-97.839	2.0	1.3	1.0	17.0
8/25/15 14:09	37.063	-97.934	2.0	2.1	1.5	18.0
8/25/15 14:39	37.257	-97.979	1.9	3.0	4.9	16.6
8/25/15 19:49	37.333	-97.500	1.4	3.5	3.9	15.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/25/15 20:47	37.036	-97.573	1.6	3.1	2.7	17.6
8/25/15 21:50	37.150	-97.836	2.4	1.8	1.7	17.8
8/25/15 23:22	37.350	-97.475	1.2	7.2	9.5	15.4
8/26/15 1:23	37.282	-97.623	1.6	1.9	2.1	17.6
8/26/15 1:37	37.453	-98.699	1.4	2.5	3.1	13.0
8/26/15 2:27	37.012	-98.320	2.1	3.1	1.6	14.4
8/26/15 3:39	37.066	-97.528	1.9	2.2	1.8	18.6
8/26/15 4:13	37.256	-97.557	0.8	1.7	1.8	15.6
8/26/15 4:19	37.301	-98.728	1.3	2.5	2.3	6.7
8/26/15 5:15	37.308	-97.513	0.8	2.4	2.5	15.6
8/26/15 5:56	37.332	-97.502	1.1	1.3	1.2	16.2
8/26/15 6:37	37.116	-98.427	2.1	2.3	1.4	9.4
8/26/15 9:06	37.256	-97.556	1.7	2.5	2.3	17.9
8/26/15 10:01	37.246	-97.556	0.9	1.7	2.2	15.8
8/26/15 10:02	37.251	-97.554	0.6	1.4	1.7	15.4
8/26/15 10:59	37.251	-97.554	0.8	1.2	1.6	15.6
8/26/15 11:54	37.043	-97.505	1.4	5.9	4.8	17.0
8/26/15 12:01	37.251	-97.554	0.8	4.4	4.7	15.6
8/26/15 12:35	37.046	-97.552	1.1	4.6	3.8	16.2
8/26/15 15:30	37.120	-97.462	1.2	4.9	4.4	16.4
8/26/15 17:20	37.267	-97.587	1.4	1.9	2.1	17.0
8/26/15 17:58	37.246	-97.557	1.4	1.2	1.5	17.0
8/26/15 18:01	37.250	-97.556	0.9	1.9	2.4	15.8
8/26/15 19:25	37.253	-97.558	1.8	1.2	1.5	18.2
8/26/15 21:45	37.355	-97.936	1.8	1.5	1.3	14.2
8/26/15 21:51	37.284	-97.610	1.5	1.7	2.5	17.3
8/27/15 1:13	37.562	-97.829	1.7	2.5	2.6	14.9
8/27/15 3:04	37.059	-97.525	1.4	2.3	2.2	17.0
8/27/15 3:12	37.308	-97.509	0.8	1.6	1.7	15.6
8/27/15 4:02	37.531	-97.840	1.3	3.5	3.7	13.7
8/27/15 5:21	37.062	-97.520	1.9	2.1	1.4	18.6
8/27/15 5:25	37.073	-97.515	2.0	2.1	1.5	19.0
8/27/15 5:43	37.322	-97.483	0.7	3.3	3.9	13.5
8/27/15 6:18	37.066	-97.529	2.4	2.5	1.8	20.8
8/27/15 6:36	37.207	-97.733	1.3	2.0	1.6	14.7
8/27/15 6:49	37.068	-97.528	2.1	2.1	1.5	19.4
8/27/15 7:06	37.078	-97.508	1.5	3.5	2.5	17.3
8/27/15 7:29	37.063	-97.525	1.7	1.7	1.3	17.9
8/27/15 10:28	37.235	-97.980	1.5	2.6	1.5	16.3
8/27/15 12:45	37.238	-97.681	1.5	3.9	4.7	17.3
8/27/15 14:42	37.221	-97.966	2.0	2.4	1.6	18.0
8/27/15 16:03	37.083	-97.509	1.8	3.2	2.7	18.2
8/27/15 16:22	37.440	-98.692	1.8	1.9	1.8	14.2
8/27/15 17:17	37.076	-97.515	1.7	4.1	3.4	17.9
8/27/15 17:38	37.254	-97.553	1.3	1.7	1.9	16.7
8/27/15 23:20	37.058	-97.539	2.7	1.9	1.4	19.3
8/27/15 23:30	37.068	-97.530	2.2	2.1	1.5	19.8
8/27/15 23:39	37.070	-97.521	1.4	6.7	5.2	17.0
8/28/15 0:23	37.081	-97.521	1.6	3.2	2.6	17.6
8/28/15 1:05	37.194	-97.998	1.5	2.8	2.3	16.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/28/15 1:39	37.023	-97.554	1.4	5.2	4.0	17.0
8/28/15 1:54	37.247	-97.564	1.6	1.5	1.6	17.6
8/28/15 2:33	37.259	-97.563	1.2	2.3	2.0	16.4
8/28/15 4:02	37.305	-97.904	1.7	1.8	2.4	15.9
8/28/15 4:08	37.287	-97.908	1.8	1.2	1.1	18.2
8/28/15 4:40	37.250	-97.546	1.4	1.9	2.4	17.0
8/28/15 5:59	37.164	-97.689	1.3	3.4	4.2	16.7
8/28/15 9:39	37.306	-97.524	1.5	5.2	5.4	17.3
8/28/15 10:10	37.340	-97.494	1.1	6.0	6.7	13.2
8/28/15 11:04	37.243	-97.570	1.8	1.9	1.7	18.2
8/28/15 11:16	37.251	-97.560	1.4	1.7	1.9	17.0
8/28/15 11:43	37.074	-97.525	2.0	2.1	1.9	19.0
8/28/15 12:04	37.256	-97.553	1.0	1.2	1.4	16.0
8/28/15 12:04	37.246	-97.549	1.8	2.5	2.8	18.2
8/28/15 12:18	37.093	-97.513	1.6	3.0	2.4	17.6
8/28/15 14:39	37.328	-97.508	1.8	2.8	2.9	17.2
8/28/15 15:20	37.006	-97.524	1.5	4.5	2.6	17.3
8/28/15 15:54	37.438	-97.769	1.0	7.8	6.9	12.0
8/28/15 16:28	37.404	-97.501	0.6	5.5	7.4	11.4
8/28/15 16:47	37.260	-97.980	1.6	2.4	3.9	16.6
8/28/15 18:12	37.112	-97.546	1.1	2.3	2.6	16.2
8/28/15 18:22	37.470	-97.847	0.0	4.0	5.3	11.0
8/28/15 20:40	37.070	-97.522	2.0	1.9	1.5	19.0
8/28/15 21:58	37.094	-97.518	1.6	4.8	4.1	17.6
8/28/15 22:38	37.255	-97.550	1.2	1.6	2.0	16.4
8/28/15 22:42	37.069	-97.525	1.5	1.9	1.8	17.3
8/28/15 23:47	37.117	-97.640	1.2	6.8	9.8	14.4
8/29/15 1:29	37.255	-98.716	2.2	1.9	1.2	17.8
8/29/15 1:51	37.268	-98.708	2.1	3.2	2.2	18.4
8/29/15 2:03	37.454	-97.932	1.8	4.8	4.2	14.2
8/29/15 2:15	37.267	-98.722	1.9	1.2	0.8	17.6
8/29/15 2:24	37.274	-98.691	1.7	3.6	2.7	15.9
8/29/15 2:56	37.235	-98.127	1.7	1.3	2.8	13.9
8/29/15 3:15	37.063	-97.543	1.9	1.8	1.2	18.6
8/29/15 4:39	37.062	-97.543	1.1	7.5	6.0	16.2
8/29/15 5:13	37.094	-97.628	1.8	4.5	4.5	18.2
8/29/15 5:25	37.085	-97.512	1.6	4.7	3.7	17.6
8/29/15 6:04	37.170	-97.445	1.8	4.4	4.5	16.2
8/29/15 7:53	37.144	-97.830	1.7	3.6	5.1	14.9
8/29/15 8:53	37.058	-97.543	2.2	2.2	1.6	19.8
8/29/15 8:56	37.059	-97.525	1.7	2.7	2.1	17.9
8/29/15 9:22	37.096	-97.500	1.3	4.8	3.8	16.7
8/29/15 10:43	37.086	-97.508	2.1	3.5	2.5	19.4
8/29/15 11:16	37.099	-97.841	1.8	2.6	2.0	15.2
8/29/15 12:08	37.729	-97.705	1.0	3.0	5.5	4.0
8/29/15 12:14	37.107	-97.990	2.2	3.8	1.6	17.8
8/29/15 13:02	37.069	-97.521	1.5	2.6	2.3	17.3
8/29/15 13:10	37.242	-97.558	0.9	1.3	1.6	12.8
8/29/15 14:14	37.214	-97.973	2.3	1.7	1.1	18.3
8/29/15 14:39	37.062	-97.537	2.7	1.5	1.2	21.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/29/15 15:30	37.094	-97.502	1.9	3.6	2.9	18.6
8/29/15 15:54	37.055	-97.673	2.5	1.2	0.9	17.3
8/29/15 19:20	37.252	-97.554	1.6	4.1	5.0	14.6
8/29/15 19:36	37.081	-97.521	2.3	2.5	1.9	20.3
8/29/15 19:46	37.067	-97.528	1.8	1.7	1.4	18.2
8/29/15 19:46	37.090	-97.504	2.3	5.6	4.2	20.3
8/29/15 20:58	37.188	-97.977	2.3	3.9	2.9	20.3
8/29/15 21:10	37.011	-98.049	2.4	1.6	1.0	16.8
8/29/15 21:57	37.084	-97.519	1.9	6.8	5.4	18.6
8/29/15 22:16	37.054	-97.540	1.9	3.2	2.8	18.6
8/29/15 22:34	37.103	-97.510	1.6	3.4	3.0	17.6
8/29/15 23:03	37.068	-97.525	1.8	1.8	1.5	18.2
8/29/15 23:24	37.070	-97.521	1.5	2.8	2.5	17.3
8/30/15 1:19	37.064	-97.525	2.0	1.8	1.5	19.0
8/30/15 1:22	37.084	-97.512	1.8	5.7	4.6	18.2
8/30/15 1:28	37.108	-97.600	2.0	2.8	2.8	19.0
8/30/15 1:32	37.069	-97.527	2.0	1.7	1.3	19.0
8/30/15 4:46	37.061	-97.543	1.9	4.3	3.5	18.6
8/30/15 4:48	37.066	-97.537	2.0	2.3	1.7	19.0
8/30/15 4:54	37.096	-97.511	1.4	3.3	2.8	17.0
8/30/15 5:18	37.336	-98.730	2.0	2.3	1.8	15.0
8/30/15 5:36	37.048	-97.548	2.5	2.9	2.0	20.3
8/30/15 6:03	37.067	-97.526	2.4	2.3	1.7	20.8
8/30/15 6:38	37.068	-97.524	2.1	3.2	2.3	19.4
8/30/15 11:49	37.224	-97.962	1.9	1.2	1.0	18.6
8/30/15 11:56	37.072	-97.757	1.7	2.7	2.6	14.9
8/30/15 12:04	37.059	-97.953	1.9	3.5	2.7	18.6
8/30/15 12:49	37.086	-97.505	2.1	2.1	1.5	19.4
8/30/15 14:39	37.656	-97.744	0.4	7.2	6.2	11.2
8/30/15 15:06	37.076	-97.627	1.7	3.5	3.1	17.9
8/30/15 20:21	37.119	-98.029	2.0	2.0	5.1	19.0
8/30/15 21:12	37.069	-97.527	2.3	2.4	1.7	20.3
8/30/15 21:28	37.054	-97.541	2.2	1.3	1.2	19.8
8/30/15 21:30	37.126	-97.812	2.0	2.2	1.7	18.0
8/30/15 22:02	37.078	-97.516	1.5	3.6	2.8	17.3
8/30/15 23:48	37.072	-97.524	1.6	2.7	2.3	17.6
8/31/15 1:16	37.551	-97.845	0.8	1.9	1.8	15.6
8/31/15 2:12	37.222	-97.974	2.0	1.9	3.0	19.0
8/31/15 2:19	37.071	-97.519	1.2	2.3	2.6	16.4
8/31/15 3:07	37.511	-97.835	0.5	4.3	3.8	15.3
8/31/15 3:07	37.087	-97.495	1.4	5.4	4.6	17.0
8/31/15 4:19	37.243	-97.607	1.5	1.7	1.8	15.3
8/31/15 4:56	37.563	-97.789	0.8	3.4	3.2	15.6
8/31/15 4:58	37.052	-97.578	1.5	4.2	4.4	17.3
8/31/15 6:53	37.274	-97.977	1.9	2.3	3.3	18.6
8/31/15 7:57	37.079	-97.519	1.6	1.6	1.6	17.6
8/31/15 8:55	37.041	-97.541	1.7	2.0	1.6	17.9
8/31/15 9:22	37.333	-97.462	0.2	10.2	12.3	13.0
8/31/15 9:50	37.319	-97.494	0.9	7.1	7.4	15.8
8/31/15 9:51	37.334	-97.798	1.6	1.4	1.8	14.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
8/31/15 10:02	37.235	-97.995	1.5	3.4	2.3	17.3
8/31/15 10:11	37.254	-97.540	0.2	4.7	5.5	13.0
8/31/15 10:47	37.248	-97.569	1.3	3.4	3.6	16.7
8/31/15 11:06	37.520	-97.869	1.6	5.3	6.6	16.6
8/31/15 12:05	37.055	-97.542	1.4	3.1	2.6	17.0
8/31/15 12:07	37.293	-97.946	1.5	3.7	5.9	17.3
8/31/15 13:51	37.099	-98.053	1.9	3.1	5.3	18.6
8/31/15 14:41	37.072	-97.933	1.6	2.0	2.9	16.6
8/31/15 15:25	37.072	-97.521	1.4	2.8	2.5	17.0
8/31/15 17:40	37.173	-97.798	1.0	2.2	2.4	13.0
8/31/15 18:05	37.056	-97.541	1.8	2.0	1.7	18.2
8/31/15 19:51	37.079	-97.514	1.5	1.8	1.8	17.3
8/31/15 20:30	37.251	-98.021	1.5	1.4	1.3	17.3
9/1/15 0:15	37.169	-98.070	1.8	4.2	2.1	17.2
9/1/15 1:20	37.108	-97.983	1.9	1.7	1.3	18.6
9/1/15 1:36	37.071	-97.526	2.2	2.9	2.2	19.8
9/1/15 1:49	37.297	-97.848	1.7	3.3	2.5	15.9
9/1/15 2:18	37.161	-97.823	1.8	2.7	5.0	15.2
9/1/15 3:34	37.482	-97.820	0.4	1.4	1.5	15.2
9/1/15 4:29	37.072	-97.526	2.0	2.2	1.6	19.0
9/1/15 4:41	37.116	-98.029	2.2	3.5	2.3	19.8
9/1/15 4:48	37.043	-98.851	1.9	3.1	1.9	14.6
9/1/15 5:14	37.450	-98.696	2.1	2.1	2.1	15.4
9/1/15 5:29	37.292	-97.591	0.8	1.6	2.0	15.6
9/1/15 6:01	37.455	-98.730	1.3	1.5	1.9	13.7
9/1/15 6:02	37.027	-97.337	1.2	4.5	2.6	6.4
9/1/15 8:55	37.144	-97.637	1.3	4.7	5.2	13.7
9/1/15 9:03	37.074	-97.531	1.6	1.8	1.8	17.6
9/1/15 10:22	37.178	-97.430	0.8	4.7	4.9	9.6
9/1/15 10:26	37.515	-97.801	0.6	2.1	1.9	15.4
9/1/15 11:06	37.310	-97.543	0.7	1.7	2.0	15.5
9/1/15 11:06	37.295	-97.537	0.5	1.9	2.2	15.3
9/1/15 11:17	37.475	-97.823	1.3	1.5	1.5	16.7
9/1/15 11:18	37.467	-97.830	1.1	1.3	1.6	15.2
9/1/15 11:20	37.511	-97.798	0.6	1.5	1.7	15.4
9/1/15 11:37	37.492	-97.802	1.7	3.3	3.1	15.9
9/1/15 11:38	37.221	-97.845	0.9	2.4	2.4	12.8
9/1/15 11:41	37.062	-97.522	2.5	2.3	1.7	20.3
9/1/15 11:49	37.066	-97.534	1.8	1.7	1.2	18.2
9/1/15 11:55	37.072	-97.518	1.5	1.7	1.7	17.3
9/1/15 12:01	37.105	-97.500	1.4	3.6	2.8	17.0
9/1/15 12:21	37.072	-97.862	2.1	2.4	1.5	18.4
9/1/15 12:39	37.111	-97.511	0.9	2.5	2.3	15.8
9/1/15 12:39	37.248	-97.563	0.8	1.8	1.8	15.6
9/1/15 12:40	37.072	-97.514	1.2	1.7	1.7	16.4
9/1/15 12:55	37.060	-97.529	1.7	2.6	2.2	17.9
9/1/15 13:15	37.062	-97.530	0.9	2.3	1.9	15.8
9/1/15 13:49	37.060	-97.530	1.9	2.5	1.9	18.6
9/1/15 14:28	37.067	-97.536	1.2	2.0	2.0	16.4
9/1/15 15:21	37.086	-97.505	1.3	2.6	2.2	16.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/1/15 20:41	37.085	-97.517	1.5	2.0	1.7	17.3
9/1/15 21:07	37.057	-97.545	1.1	2.1	1.8	16.2
9/2/15 1:45	37.058	-99.188	1.1	5.4	2.5	4.2
9/2/15 2:20	37.023	-97.578	1.3	3.5	2.6	16.7
9/2/15 3:52	37.243	-97.568	1.3	1.5	1.8	16.7
9/2/15 5:11	37.034	-97.549	1.6	2.8	2.7	17.6
9/2/15 5:22	37.432	-98.681	1.8	1.9	1.9	17.2
9/2/15 5:29	37.275	-97.714	1.1	5.5	8.4	12.2
9/2/15 5:50	37.446	-98.693	1.9	2.3	2.1	16.6
9/2/15 6:04	37.196	-97.985	2.2	1.2	0.7	16.8
9/2/15 6:42	37.306	-97.515	1.0	2.8	3.2	16.0
9/2/15 7:03	37.237	-98.771	1.7	3.1	1.8	13.9
9/2/15 8:26	37.255	-97.545	1.2	1.2	1.4	16.4
9/2/15 9:00	37.438	-98.686	1.9	2.0	2.0	16.6
9/2/15 10:06	37.065	-97.524	1.6	2.5	1.9	17.6
9/2/15 10:30	37.424	-98.924	1.6	1.5	1.9	9.6
9/2/15 11:06	37.081	-97.882	2.1	5.2	2.9	18.4
9/3/15 0:56	37.126	-97.610	1.5	1.8	2.1	14.3
9/3/15 2:34	37.171	-98.027	1.7	2.5	1.7	16.9
9/3/15 6:25	37.227	-98.016	1.8	2.4	1.6	18.2
9/3/15 7:21	37.259	-98.097	2.3	1.8	1.1	17.3
9/3/15 7:55	37.015	-97.937	1.7	2.9	1.5	15.9
9/3/15 8:10	37.253	-97.573	0.7	2.2	2.7	14.5
9/3/15 9:23	37.492	-97.816	0.9	1.4	1.4	12.8
9/3/15 9:33	37.048	-99.187	1.7	3.3	1.5	7.9
9/3/15 10:10	37.262	-97.615	0.7	1.6	2.0	13.5
9/3/15 10:22	37.145	-98.011	2.0	2.6	1.8	19.0
9/3/15 10:47	37.063	-97.536	1.8	1.6	1.6	15.2
9/3/15 10:55	37.243	-97.567	2.3	2.9	2.3	15.3
9/3/15 11:01	37.237	-97.568	1.2	1.7	2.1	15.4
9/3/15 11:16	37.460	-97.826	0.8	1.5	1.8	12.6
9/4/15 2:21	37.218	-97.987	2.1	2.5	1.9	19.4
9/4/15 2:49	37.198	-97.994	1.7	5.2	9.5	17.9
9/4/15 5:58	37.034	-97.920	1.9	2.6	1.8	16.6
9/4/15 6:43	37.110	-97.659	1.7	4.8	4.9	13.9
9/4/15 8:20	37.075	-97.882	1.7	2.4	3.3	16.9
9/4/15 9:00	37.175	-97.809	2.2	1.6	1.1	17.8
9/4/15 9:43	37.253	-97.542	1.4	1.9	2.4	17.0
9/4/15 10:48	37.239	-98.008	1.7	2.1	1.6	17.9
9/4/15 10:57	37.191	-97.808	2.1	2.0	1.4	18.4
9/4/15 11:23	37.186	-97.799	2.0	3.5	2.7	18.0
9/4/15 22:12	37.269	-97.861	2.1	2.8	4.2	17.4
9/5/15 0:38	37.113	-98.026	1.8	3.9	2.6	16.2
9/5/15 1:32	37.341	-97.765	1.2	1.9	2.8	13.4
9/5/15 2:24	37.294	-97.829	1.7	3.1	3.1	15.9
9/5/15 2:31	37.302	-97.944	1.9	1.6	1.1	17.6
9/5/15 2:53	37.070	-97.520	1.4	2.2	1.9	14.0
9/5/15 4:04	39.321	-99.411	2.6	3.3	1.8	9.8
9/5/15 4:29	37.063	-98.039	1.5	3.5	2.6	16.3
9/5/15 4:47	37.251	-97.561	1.3	3.4	3.6	16.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/5/15 4:49	37.242	-97.997	1.3	1.3	1.1	14.7
9/5/15 6:25	37.072	-97.850	1.6	2.6	1.9	17.6
9/5/15 6:26	37.071	-97.848	2.0	3.1	2.0	19.0
9/5/15 7:04	37.326	-97.593	1.4	4.8	5.7	17.0
9/5/15 8:13	37.325	-97.497	1.3	2.3	2.6	14.7
9/5/15 8:15	37.208	-97.936	2.0	3.5	3.0	17.0
9/5/15 8:36	37.290	-98.038	1.7	5.4	9.8	16.9
9/5/15 10:34	37.299	-97.617	1.7	1.5	1.4	15.9
9/5/15 10:57	37.201	-97.760	1.7	4.2	3.6	17.9
9/5/15 11:41	37.045	-97.904	1.9	2.9	2.1	18.6
9/5/15 11:44	37.048	-97.885	1.8	2.1	1.5	18.2
9/5/15 12:35	37.070	-98.048	1.7	5.8	4.2	16.9
9/5/15 12:57	37.038	-97.885	2.1	2.0	1.2	19.4
9/5/15 15:04	37.159	-97.811	2.0	3.0	2.0	17.0
9/5/15 18:04	37.183	-97.770	1.6	4.3	1.9	15.6
9/5/15 23:00	37.079	-97.511	2.1	3.3	2.3	18.4
9/5/15 23:52	37.065	-97.532	1.9	1.7	1.2	18.6
9/6/15 0:24	37.067	-97.539	2.3	3.2	2.3	19.3
9/6/15 1:40	37.085	-97.975	1.8	2.9	1.7	18.2
9/6/15 1:59	37.248	-97.557	0.8	1.3	1.6	14.6
9/6/15 8:02	37.010	-97.575	1.9	5.2	3.2	18.6
9/6/15 12:24	37.083	-97.493	1.5	5.7	4.9	16.3
9/6/15 14:45	37.241	-97.963	2.1	2.4	1.5	17.4
9/6/15 17:58	37.314	-97.610	1.3	2.3	1.6	16.7
9/6/15 17:58	37.293	-97.617	1.6	2.2	1.6	17.6
9/6/15 19:06	37.194	-98.012	1.8	1.4	1.0	17.2
9/6/15 19:36	37.293	-97.618	0.9	1.9	1.6	15.8
9/6/15 20:34	37.305	-97.604	1.7	4.6	4.1	17.9
9/7/15 1:30	37.251	-97.571	2.6	1.5	1.0	17.8
9/7/15 2:07	37.253	-97.542	1.0	1.3	1.6	16.0
9/7/15 2:08	37.249	-97.553	1.2	1.2	1.5	16.4
9/7/15 3:12	37.504	-97.904	1.4	5.5	5.0	15.0
9/7/15 3:20	37.072	-97.517	1.6	4.1	4.0	16.6
9/7/15 4:19	37.496	-97.849	1.3	3.0	3.1	14.7
9/7/15 5:42	37.063	-97.936	1.9	2.2	1.5	14.6
9/7/15 7:13	37.392	-97.978	1.4	2.0	3.1	13.0
9/7/15 8:52	37.018	-97.555	1.3	4.5	3.2	14.7
9/7/15 9:02	37.243	-98.059	2.0	1.3	0.9	19.0
9/7/15 10:17	37.518	-97.865	1.3	6.6	7.6	14.7
9/7/15 11:18	37.246	-97.555	0.8	1.5	1.8	15.6
9/7/15 12:01	37.233	-97.975	1.5	1.2	1.0	15.3
9/7/15 14:11	37.266	-97.535	1.2	4.6	3.7	16.4
9/7/15 14:59	37.257	-97.517	1.5	3.7	4.6	17.3
9/7/15 18:26	37.248	-97.592	1.4	2.6	2.6	17.0
9/7/15 20:13	37.241	-97.581	1.8	3.0	2.2	18.2
9/7/15 20:20	37.280	-97.665	1.8	5.4	6.5	18.2
9/8/15 0:33	37.249	-97.961	2.2	2.0	3.2	16.8
9/8/15 3:09	37.223	-97.639	1.8	2.3	2.9	18.2
9/8/15 3:37	37.168	-97.820	1.8	1.9	2.4	15.2
9/8/15 3:55	37.172	-97.831	1.7	1.6	1.4	14.9

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/8/15 4:32	37.011	-98.280	1.7	5.0	7.5	13.9
9/8/15 9:12	37.486	-98.702	1.7	1.7	4.0	13.9
9/8/15 10:55	37.429	-97.979	1.9	3.2	5.7	15.6
9/8/15 11:16	37.363	-98.145	1.7	2.4	2.0	14.9
9/8/15 11:26	37.383	-98.118	1.6	2.0	1.7	15.6
9/8/15 13:16	37.231	-97.611	1.4	3.7	4.5	17.0
9/8/15 13:30	37.078	-97.854	1.7	2.4	3.3	15.9
9/8/15 18:03	37.051	-97.929	1.6	3.8	2.8	16.6
9/8/15 21:49	37.530	-98.919	1.5	1.6	2.5	5.3
9/8/15 23:27	37.279	-97.830	1.5	5.1	7.5	14.3
9/9/15 0:10	37.103	-97.628	1.8	4.2	4.9	18.2
9/9/15 2:24	37.020	-97.937	1.9	1.6	2.2	16.6
9/9/15 2:26	37.399	-98.034	1.5	2.7	2.9	15.3
9/9/15 2:35	37.312	-97.526	0.9	6.9	6.5	15.8
9/9/15 5:10	37.320	-97.526	0.5	4.9	5.2	13.3
9/9/15 6:03	37.235	-97.529	1.3	4.5	5.0	16.7
9/9/15 6:16	37.100	-97.861	1.8	3.9	3.1	18.2
9/9/15 7:07	37.623	-97.757	1.3	3.9	3.3	13.7
9/9/15 7:13	37.017	-97.586	1.6	2.5	1.8	17.6
9/9/15 7:47	37.278	-97.637	2.0	2.4	2.5	14.0
9/9/15 8:38	37.017	-97.559	1.9	4.2	3.5	18.6
9/9/15 8:54	37.042	-97.582	1.6	1.7	1.4	17.6
9/9/15 10:02	37.042	-97.686	1.6	3.1	2.0	17.6
9/9/15 10:22	37.441	-98.717	1.6	2.0	4.7	13.6
9/9/15 10:28	37.328	-97.516	1.2	3.6	3.9	16.4
9/9/15 12:57	37.124	-97.652	1.5	4.9	5.3	16.3
9/9/15 13:45	37.085	-98.434	1.7	4.2	2.4	9.9
9/9/15 13:49	37.272	-97.537	1.1	1.3	1.6	16.2
9/9/15 14:17	37.235	-97.923	1.8	2.9	2.0	16.2
9/9/15 14:48	37.328	-97.503	1.9	2.1	1.9	15.6
9/9/15 14:52	37.326	-97.513	1.4	2.3	2.3	17.0
9/9/15 16:36	37.254	-97.548	1.1	2.0	2.5	16.2
9/9/15 16:40	37.260	-97.542	1.2	1.6	2.0	16.4
9/9/15 16:44	37.244	-97.556	1.2	1.8	2.2	16.4
9/9/15 17:02	37.616	-97.753	1.0	9.6	8.5	13.0
9/9/15 17:55	37.378	-97.920	1.4	5.7	4.7	13.0
9/9/15 20:15	37.071	-97.521	1.2	4.9	3.8	16.4
9/9/15 20:15	37.084	-97.514	1.6	2.8	2.1	17.6
9/9/15 20:20	37.076	-97.530	1.6	2.2	1.4	17.6
9/9/15 22:56	37.049	-97.911	1.7	3.0	1.6	17.9
9/10/15 2:55	37.279	-98.186	1.9	3.9	2.4	14.6
9/10/15 3:12	37.087	-97.502	1.2	1.7	1.7	16.4
9/10/15 3:13	37.036	-97.478	2.0	3.0	1.9	19.0
9/10/15 3:20	37.259	-97.487	0.9	1.8	2.3	15.8
9/10/15 3:52	37.312	-97.512	1.3	1.6	1.3	16.7
9/10/15 4:16	37.262	-97.612	0.9	1.8	2.2	15.8
9/10/15 4:26	37.020	-97.826	2.1	2.8	2.0	17.4
9/10/15 5:06	37.219	-97.951	1.3	2.7	1.8	13.7
9/10/15 5:20	37.018	-99.365	1.6	6.2	6.6	5.6
9/10/15 8:55	37.290	-97.585	0.6	1.5	1.8	15.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/10/15 8:56	37.144	-97.651	1.8	2.2	1.8	15.2
9/10/15 9:01	37.081	-97.857	1.2	1.9	2.3	14.4
9/10/15 9:46	37.362	-97.772	1.4	3.0	2.7	14.0
9/10/15 10:57	37.613	-97.764	1.7	1.8	1.7	13.9
9/10/15 12:02	37.284	-97.597	1.8	1.2	1.1	17.2
9/10/15 12:37	37.265	-97.565	0.8	1.4	1.7	15.6
9/10/15 12:46	37.275	-97.589	1.2	1.6	2.0	16.4
9/10/15 13:18	37.299	-97.582	0.9	1.5	1.8	15.8
9/10/15 13:41	37.416	-98.648	0.9	1.2	1.4	11.8
9/10/15 13:44	37.440	-98.689	1.7	1.2	1.4	14.9
9/10/15 15:33	37.328	-97.471	1.0	4.6	5.1	14.0
9/10/15 17:25	37.099	-98.042	1.6	2.3	1.0	13.6
9/10/15 19:19	37.058	-97.928	1.5	2.4	1.3	17.3
9/10/15 20:25	37.250	-97.993	1.9	3.2	1.8	14.6
9/10/15 20:59	37.362	-97.807	0.7	2.4	2.8	13.5
9/10/15 22:08	37.246	-97.597	1.4	1.2	1.5	17.0
9/11/15 2:25	37.083	-97.364	1.4	2.9	1.3	11.0
9/11/15 5:33	37.025	-97.949	1.9	2.4	1.6	18.6
9/11/15 5:43	37.396	-98.666	1.6	5.0	2.7	14.6
9/11/15 7:09	37.343	-97.922	1.6	2.1	2.5	17.6
9/11/15 8:07	37.306	-97.882	0.4	5.9	5.1	12.2
9/11/15 9:29	37.102	-97.854	1.6	2.8	2.7	17.6
9/11/15 9:45	37.409	-97.854	1.7	1.9	2.2	17.9
9/11/15 10:00	37.395	-97.842	1.2	0.7	1.0	16.4
9/11/15 10:55	37.041	-97.916	1.6	4.3	4.4	17.6
9/11/15 11:04	37.391	-97.837	1.4	1.8	2.0	17.0
9/11/15 11:57	37.031	-97.719	1.8	9.1	4.2	14.2
9/11/15 12:36	37.204	-97.867	1.6	1.6	1.4	14.6
9/11/15 14:59	37.065	-97.903	1.2	1.2	1.1	16.4
9/11/15 15:27	37.202	-97.788	1.0	5.5	5.4	14.0
9/11/15 16:39	37.050	-97.894	1.7	7.4	6.5	17.9
9/11/15 17:14	37.095	-97.844	1.4	3.2	3.2	17.0
9/11/15 17:20	37.339	-97.913	1.3	1.4	1.5	16.7
9/11/15 18:08	37.084	-98.287	1.7	2.9	1.5	13.9
9/12/15 0:55	37.064	-97.939	2.1	1.7	1.4	19.4
9/12/15 1:24	37.088	-97.910	1.4	6.4	7.6	17.0
9/12/15 1:28	37.588	-97.770	1.5	2.3	1.8	13.3
9/12/15 1:53	37.075	-97.934	1.2	3.6	3.8	16.4
9/12/15 2:18	37.365	-97.786	1.3	0.7	0.9	16.7
9/12/15 3:18	37.035	-97.838	1.8	2.4	2.0	18.2
9/12/15 3:30	37.031	-97.848	1.7	2.3	1.7	17.9
9/12/15 4:18	37.476	-97.825	0.8	5.2	6.4	14.6
9/12/15 4:42	37.049	-97.932	2.0	2.8	1.5	19.0
9/12/15 5:34	37.277	-97.781	1.4	3.9	3.4	15.0
9/12/15 6:02	37.064	-97.915	1.8	4.1	2.5	18.2
9/12/15 7:50	37.519	-97.816	0.3	3.6	3.2	13.1
9/12/15 11:18	37.198	-97.871	1.5	3.0	2.7	16.3
9/12/15 12:07	37.053	-97.940	1.6	2.1	1.9	17.6
9/12/15 13:04	37.450	-97.868	0.7	2.9	4.4	13.5
9/12/15 13:12	37.233	-97.636	2.1	3.6	2.8	15.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/12/15 13:23	37.291	-97.607	1.0	2.8	2.2	15.0
9/12/15 13:37	37.300	-97.595	0.7	2.2	2.7	12.5
9/12/15 14:40	37.296	-97.616	1.5	2.5	2.2	16.3
9/12/15 15:26	37.060	-97.938	2.0	1.8	1.5	19.0
9/12/15 16:43	37.181	-97.908	1.4	3.0	2.5	15.0
9/12/15 17:22	37.193	-97.981	1.4	2.6	3.2	14.0
9/12/15 17:40	37.051	-97.535	0.7	3.4	2.8	12.5
9/12/15 17:40	37.059	-97.534	1.9	2.0	1.4	18.6
9/12/15 17:45	37.064	-97.532	2.2	1.5	1.0	19.8
9/12/15 17:59	37.075	-97.513	1.4	8.6	7.0	17.0
9/12/15 18:04	37.070	-97.716	1.6	2.1	1.3	13.6
9/12/15 18:20	37.207	-97.523	1.3	6.5	6.8	13.7
9/12/15 18:21	37.074	-97.525	1.5	5.9	4.7	17.3
9/12/15 18:37	37.189	-97.429	1.3	6.1	6.5	13.7
9/12/15 19:05	37.305	-97.556	1.4	3.7	3.1	16.0
9/12/15 19:07	37.074	-97.918	1.7	4.0	4.8	17.9
9/12/15 20:04	37.071	-97.909	1.6	1.6	2.2	17.6
9/12/15 21:08	37.079	-97.935	1.6	1.9	1.4	17.6
9/12/15 22:33	37.307	-97.859	1.5	1.4	1.3	17.3
9/12/15 23:19	37.109	-97.496	1.5	3.3	2.5	17.3
9/12/15 23:31	37.104	-97.849	1.4	2.6	2.5	17.0
9/13/15 3:10	37.602	-97.772	1.2	2.9	2.8	14.4
9/13/15 4:06	37.593	-97.767	1.4	1.0	1.5	15.0
9/13/15 4:16	37.066	-97.531	2.5	2.5	1.6	19.3
9/13/15 4:56	37.067	-97.532	1.1	4.4	3.5	16.2
9/13/15 4:57	37.631	-97.676	1.0	2.4	3.3	14.0
9/13/15 5:04	37.010	-97.578	1.5	3.4	3.0	17.3
9/13/15 7:55	37.310	-97.853	1.5	1.0	1.0	16.3
9/13/15 8:11	37.304	-97.936	1.4	1.5	1.3	16.0
9/13/15 8:36	37.059	-97.534	2.1	2.9	2.1	19.4
9/13/15 8:46	37.078	-97.523	2.0	2.2	1.4	19.0
9/13/15 9:18	37.114	-98.047	1.7	2.1	2.5	13.9
9/13/15 10:19	37.260	-98.144	1.6	2.4	4.5	13.6
9/13/15 11:43	37.187	-97.433	1.9	5.3	5.4	14.6
9/13/15 11:50	37.280	-97.613	1.9	1.2	1.0	17.6
9/13/15 12:32	37.068	-97.523	1.8	2.4	1.7	18.2
9/13/15 14:14	37.089	-97.508	1.4	1.8	1.6	17.0
9/13/15 17:56	37.081	-97.918	1.4	2.0	1.4	17.0
9/13/15 18:30	37.067	-97.926	1.6	1.6	1.6	17.6
9/13/15 18:39	37.072	-97.937	1.8	2.4	2.0	18.2
9/13/15 18:59	37.284	-97.910	1.0	1.9	1.3	15.0
9/13/15 19:01	37.059	-97.940	1.5	1.9	1.5	17.3
9/13/15 19:45	37.069	-97.931	1.5	2.1	1.6	17.3
9/13/15 21:20	37.050	-97.940	1.5	2.8	2.0	17.3
9/13/15 21:56	37.072	-97.911	1.7	1.7	1.7	17.9
9/13/15 23:16	37.061	-97.938	2.2	3.8	2.2	18.8
9/13/15 23:30	37.078	-97.907	1.3	1.6	1.6	16.7
9/13/15 23:41	37.054	-97.945	1.4	2.0	1.4	17.0
9/13/15 23:48	37.056	-97.941	1.8	1.7	1.3	18.2
9/14/15 0:11	37.053	-97.936	1.3	2.0	1.4	16.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/14/15 0:43	37.062	-97.940	1.9	2.0	1.5	18.6
9/14/15 3:25	37.225	-98.026	2.2	1.4	1.2	15.8
9/14/15 4:45	37.076	-97.915	1.5	1.9	2.2	17.3
9/14/15 8:00	37.100	-97.493	1.2	3.5	2.6	14.4
9/14/15 13:02	37.072	-97.529	1.9	2.5	1.6	18.6
9/14/15 14:49	37.101	-97.832	1.3	3.0	3.6	16.7
9/14/15 21:34	37.064	-97.535	1.9	3.0	2.0	18.6
9/14/15 22:04	37.066	-97.533	1.2	2.4	1.5	16.4
9/14/15 23:11	37.375	-98.136	1.2	1.1	2.8	12.4
9/15/15 0:38	37.097	-97.833	1.7	1.8	1.7	17.9
9/15/15 2:07	37.087	-97.817	2.1	3.2	2.8	17.4
9/15/15 3:27	37.264	-97.604	1.6	6.7	8.1	15.6
9/15/15 4:12	37.855	-98.016	1.6	8.7	4.3	5.6
9/15/15 4:17	37.286	-97.601	1.1	1.3	1.4	14.2
9/15/15 5:29	37.095	-97.495	2.1	4.5	3.2	19.4
9/15/15 7:02	37.010	-97.477	1.6	4.1	2.6	17.6
9/15/15 9:28	37.410	-98.685	1.3	7.1	2.9	14.7
9/15/15 9:41	37.436	-98.683	1.6	2.4	2.3	15.6
9/15/15 11:11	37.276	-97.640	1.5	3.5	3.4	16.3
9/15/15 13:35	37.064	-97.528	1.5	3.5	2.2	17.3
9/15/15 15:18	37.188	-97.640	0.8	4.0	5.1	12.6
9/15/15 15:23	37.075	-97.523	1.0	2.1	1.8	16.0
9/15/15 16:31	37.445	-98.696	1.6	1.2	1.3	15.6
9/15/15 17:22	37.086	-97.515	1.3	4.1	3.2	16.7
9/15/15 17:24	37.074	-97.523	2.0	2.4	1.6	19.0
9/15/15 19:49	37.061	-97.516	1.3	4.2	4.1	16.7
9/15/15 20:47	37.085	-97.901	1.5	4.9	4.8	16.3
9/15/15 23:30	37.226	-97.498	1.4	7.2	7.4	13.0
9/15/15 23:58	37.523	-97.754	1.4	2.1	2.2	13.0
9/16/15 0:21	37.168	-97.827	1.6	2.3	2.5	15.6
9/16/15 3:46	37.115	-97.485	1.2	6.4	5.0	16.4
9/16/15 5:27	37.266	-97.668	0.8	4.6	6.2	12.6
9/16/15 5:27	37.058	-97.844	2.0	1.8	1.7	17.0
9/16/15 6:01	37.235	-97.904	1.5	2.4	3.6	13.3
9/16/15 7:13	37.208	-97.625	1.4	3.6	4.6	14.0
9/16/15 8:49	37.442	-97.907	0.8	6.7	10.5	11.6
9/16/15 9:39	37.072	-97.529	1.1	3.9	2.8	16.2
9/16/15 10:08	37.240	-98.040	2.0	1.0	0.7	15.0
9/16/15 11:43	37.041	-97.942	1.7	3.5	3.2	16.9
9/16/15 13:43	37.107	-97.572	1.8	4.3	9.8	17.2
9/17/15 3:26	37.108	-97.958	1.5	1.5	2.1	14.3
9/17/15 3:49	37.018	-97.564	1.3	7.3	5.6	15.7
9/17/15 4:23	37.184	-97.404	1.6	8.1	9.0	13.6
9/17/15 7:58	37.177	-97.882	1.2	1.1	1.2	12.4
9/17/15 8:00	37.232	-97.874	2.0	2.5	2.0	15.0
9/17/15 12:38	37.264	-98.006	1.2	1.8	2.5	13.4
9/17/15 13:31	37.032	-97.826	1.1	3.4	2.4	12.2
9/17/15 15:21	37.309	-97.936	1.2	0.8	0.7	13.4
9/18/15 1:31	37.328	-97.801	1.5	1.1	1.1	13.3
9/18/15 1:55	37.216	-97.624	0.9	2.5	2.7	14.8

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/18/15 1:55	37.245	-97.579	0.9	1.9	2.9	14.8
9/18/15 2:12	37.425	-98.927	2.9	1.1	1.4	13.4
9/18/15 2:54	37.063	-97.532	1.2	3.3	3.0	16.4
9/18/15 3:04	37.078	-97.513	1.4	2.1	1.9	17.0
9/18/15 4:17	37.147	-97.724	1.4	2.3	1.2	13.0
9/18/15 4:19	37.421	-98.923	1.8	1.5	1.6	10.2
9/18/15 6:15	37.482	-97.825	1.9	0.6	0.7	14.6
9/18/15 10:36	37.267	-97.628	1.3	2.7	4.2	15.7
9/18/15 10:53	37.076	-97.522	1.5	3.4	2.9	17.3
9/18/15 11:40	37.044	-97.762	1.7	1.8	1.2	14.9
9/18/15 13:54	37.059	-97.769	1.7	2.3	1.4	14.9
9/18/15 14:53	37.074	-97.525	1.4	3.2	2.7	17.0
9/18/15 15:05	37.274	-97.586	1.3	1.5	2.6	16.7
9/18/15 22:09	37.102	-98.297	1.8	1.3	0.7	13.2
9/18/15 22:53	37.094	-98.309	1.8	1.9	1.2	17.2
9/19/15 1:00	37.097	-98.310	1.9	3.2	1.4	17.6
9/19/15 4:04	37.078	-97.518	1.8	2.7	2.5	18.2
9/19/15 8:57	37.126	-97.552	1.3	4.6	5.1	16.7
9/19/15 9:44	37.031	-97.570	0.9	3.8	3.7	13.8
9/19/15 10:29	37.449	-98.714	1.6	1.8	2.0	13.6
9/19/15 12:32	37.254	-97.652	1.5	3.1	4.8	15.3
9/19/15 12:37	37.242	-97.594	1.5	1.1	1.0	15.3
9/19/15 13:16	37.077	-98.297	1.7	3.4	1.4	16.9
9/19/15 15:26	37.293	-97.485	1.0	2.6	3.4	12.0
9/19/15 15:43	37.005	-97.586	1.7	2.1	1.5	17.9
9/19/15 16:22	37.137	-97.551	2.0	1.7	1.7	17.0
9/19/15 17:12	37.274	-98.746	1.6	1.7	0.8	13.6
9/19/15 17:13	37.012	-97.591	1.7	1.4	1.2	17.9
9/19/15 19:35	37.007	-98.808	2.0	4.5	3.5	11.0
9/19/15 21:42	37.253	-98.054	1.7	2.2	1.6	17.9
9/19/15 21:48	37.016	-97.589	1.9	1.9	1.3	18.6
9/19/15 22:13	37.066	-97.517	1.3	2.6	2.3	16.7
9/19/15 22:35	37.217	-97.960	1.7	1.0	0.9	17.9
9/20/15 2:00	37.232	-98.007	1.5	1.5	1.5	17.3
9/20/15 4:46	37.205	-97.975	1.8	2.8	2.1	18.2
9/20/15 5:17	37.126	-97.594	2.0	2.3	1.7	18.0
9/20/15 5:50	37.237	-97.869	1.2	1.0	0.9	16.4
9/20/15 6:16	37.478	-97.827	0.6	1.9	2.2	12.4
9/20/15 7:08	37.194	-97.961	1.2	2.1	1.4	16.4
9/20/15 7:25	37.208	-97.967	1.3	1.2	0.7	16.7
9/20/15 8:07	37.207	-97.965	1.3	1.4	0.9	16.7
9/20/15 9:26	37.212	-97.967	1.4	1.2	0.7	17.0
9/20/15 11:17	37.066	-97.921	2.4	2.0	1.4	16.8
9/20/15 11:28	37.210	-97.972	1.5	2.5	1.6	17.3
9/20/15 12:46	37.204	-97.965	1.1	3.3	2.1	16.2
9/20/15 12:47	37.034	-97.558	2.0	5.0	2.7	19.0
9/20/15 14:18	37.213	-97.964	1.7	2.2	1.4	17.9
9/20/15 16:20	37.205	-97.965	1.5	2.6	1.6	17.3
9/20/15 16:29	37.108	-98.032	1.6	1.7	2.2	13.6
9/20/15 18:58	37.081	-97.863	1.3	1.6	1.1	13.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/20/15 21:31	37.073	-97.519	1.7	3.4	2.8	17.9
9/20/15 22:13	37.089	-97.520	1.5	4.7	2.8	17.3
9/20/15 23:01	37.238	-97.878	1.7	1.0	1.0	17.9
9/20/15 23:32	37.057	-97.907	1.6	2.1	1.8	14.6
9/21/15 0:38	37.241	-97.868	1.8	1.4	1.0	18.2
9/21/15 2:24	37.294	-97.858	1.2	1.1	1.0	15.4
9/21/15 2:41	37.543	-97.775	1.3	3.9	3.1	12.7
9/21/15 3:38	37.457	-97.773	0.7	4.4	4.7	12.5
9/21/15 3:45	37.221	-97.970	1.2	2.2	1.3	16.4
9/21/15 4:59	37.049	-97.554	1.3	5.5	3.9	14.7
9/21/15 6:11	37.234	-97.873	1.5	2.3	2.4	17.3
9/21/15 7:03	37.196	-97.972	1.5	5.6	3.5	17.3
9/21/15 9:15	37.237	-98.012	1.5	1.3	1.1	17.3
9/21/15 9:42	37.571	-97.819	0.6	0.8	0.9	11.4
9/21/15 11:27	37.229	-97.868	1.9	2.1	1.8	18.6
9/21/15 11:34	37.258	-98.062	1.3	2.0	3.8	14.7
9/21/15 15:22	37.207	-97.620	0.8	2.3	3.0	12.6
9/21/15 16:00	37.042	-97.562	1.9	3.9	3.3	18.6
9/21/15 17:27	37.008	-98.887	1.9	4.1	3.6	10.6
9/21/15 21:54	37.059	-97.876	0.3	9.1	5.5	11.1
9/22/15 1:12	37.185	-97.860	1.3	3.0	1.6	16.7
9/22/15 4:38	37.228	-97.866	2.2	1.1	0.9	19.8
9/22/15 4:53	37.228	-97.878	2.4	1.1	0.7	20.8
9/22/15 5:33	37.247	-97.689	1.2	2.3	3.0	15.4
9/22/15 5:52	37.304	-97.594	0.8	1.5	2.4	12.6
9/22/15 6:37	37.227	-97.867	0.9	2.4	1.2	15.8
9/22/15 7:14	37.235	-98.045	2.0	2.9	2.6	17.0
9/22/15 7:55	37.046	-97.540	2.2	3.9	3.3	16.8
9/22/15 7:57	37.061	-97.524	1.3	2.4	2.2	15.7
9/22/15 8:04	37.071	-97.513	1.5	2.8	3.7	17.3
9/22/15 16:15	37.156	-97.832	1.7	1.6	1.5	17.9
9/22/15 16:19	37.161	-97.828	2.0	2.4	1.5	19.0
9/22/15 16:22	37.164	-97.825	1.9	1.6	1.9	18.6
9/22/15 16:49	37.190	-97.724	1.2	3.8	5.5	15.4
9/22/15 17:22	37.159	-97.831	1.5	1.3	1.0	17.3
9/22/15 17:41	37.167	-97.826	1.4	2.7	1.2	17.0
9/22/15 20:07	37.230	-97.972	0.8	1.3	0.8	12.6
9/22/15 23:31	37.218	-98.050	2.1	1.9	1.6	17.4
9/23/15 2:51	37.392	-97.556	1.0	3.5	5.6	13.0
9/23/15 2:53	37.317	-97.518	1.5	1.0	1.1	14.3
9/23/15 2:56	37.245	-97.656	1.2	1.4	1.2	15.4
9/23/15 3:05	37.057	-97.521	1.4	3.6	3.2	17.0
9/23/15 4:43	37.195	-97.840	1.4	1.5	0.9	17.0
9/23/15 4:51	37.062	-97.517	1.4	3.1	2.7	17.0
9/23/15 7:19	37.089	-98.015	1.6	2.2	1.7	13.6
9/23/15 8:04	37.421	-98.927	1.6	1.4	2.5	11.6
9/23/15 8:52	37.228	-98.003	1.8	1.0	0.7	16.2
9/23/15 10:44	37.509	-97.827	1.0	1.2	1.4	12.0
9/23/15 15:52	37.029	-97.553	1.2	6.2	6.5	14.4
9/23/15 20:21	37.150	-97.822	1.4	1.5	1.1	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/23/15 20:36	37.249	-97.950	1.3	2.4	2.6	14.7
9/23/15 22:46	37.378	-97.917	1.1	1.1	2.6	13.2
9/24/15 0:20	37.613	-97.804	1.4	2.0	2.0	14.0
9/24/15 4:58	37.403	-97.740	1.6	0.9	1.7	13.6
9/24/15 7:25	37.337	-97.907	1.1	1.1	1.1	13.2
9/24/15 7:27	37.135	-97.820	0.8	3.8	2.9	13.6
9/24/15 7:43	37.107	-97.659	1.7	3.7	3.9	15.9
9/24/15 10:25	37.230	-97.568	1.9	2.7	3.0	14.6
9/24/15 12:31	37.090	-97.879	1.0	1.5	1.1	15.0
9/24/15 13:01	37.563	-97.746	1.9	2.4	2.7	15.6
9/24/15 15:42	37.101	-97.836	1.6	4.7	6.0	15.6
9/24/15 16:06	37.227	-97.586	1.1	5.5	5.5	12.2
9/24/15 18:51	37.192	-97.883	1.6	1.4	1.1	17.6
9/24/15 20:24	37.083	-97.509	1.8	6.3	4.4	17.2
9/25/15 0:07	37.088	-97.898	2.0	3.3	4.5	16.0
9/25/15 0:20	37.096	-97.713	2.3	2.8	1.8	17.3
9/25/15 0:20	37.098	-97.712	2.2	3.0	1.8	16.8
9/25/15 0:38	37.236	-97.967	1.9	1.1	1.0	18.6
9/25/15 0:38	37.230	-97.975	1.7	2.1	1.9	16.9
9/25/15 0:47	37.116	-97.685	1.7	1.3	0.8	15.9
9/25/15 0:47	37.117	-97.691	1.1	2.7	1.8	13.2
9/25/15 1:16	37.115	-97.677	1.4	3.6	2.5	16.0
9/25/15 1:54	37.353	-98.038	1.6	0.7	1.4	14.6
9/25/15 3:59	37.157	-97.828	0.8	1.8	0.9	13.6
9/25/15 4:07	37.095	-98.058	2.0	2.3	1.6	18.0
9/25/15 4:57	37.350	-98.049	1.8	0.6	1.1	15.2
9/25/15 7:23	37.094	-98.090	1.6	3.0	2.2	16.6
9/25/15 10:37	37.106	-98.055	2.0	1.7	1.2	19.0
9/25/15 10:40	37.071	-97.542	2.1	4.0	2.9	19.4
9/25/15 11:01	37.018	-97.533	1.7	7.3	6.3	17.9
9/25/15 12:03	37.167	-97.977	2.3	7.2	4.7	17.3
9/25/15 12:32	37.243	-98.005	1.7	1.7	1.3	16.9
9/25/15 12:55	37.072	-97.519	1.4	3.0	2.4	17.0
9/25/15 19:02	37.067	-98.100	2.1	2.2	2.1	19.4
9/25/15 20:55	37.076	-97.513	1.6	1.2	1.0	17.6
9/25/15 22:11	37.072	-97.689	2.2	2.4	2.9	16.8
9/26/15 1:09	37.060	-97.532	1.7	3.4	1.8	17.9
9/26/15 1:53	37.436	-98.696	1.9	1.5	1.5	14.6
9/26/15 5:40	37.075	-97.639	1.4	1.2	0.8	14.0
9/26/15 6:48	37.245	-97.556	1.8	1.5	1.8	14.2
9/26/15 9:12	37.121	-98.108	2.3	2.3	1.4	19.3
9/26/15 9:44	37.211	-97.865	1.9	2.9	1.8	14.6
9/26/15 12:05	37.184	-97.988	2.1	2.6	1.6	17.4
9/26/15 18:02	37.209	-98.123	1.8	4.4	2.1	15.2
9/27/15 1:43	37.056	-97.880	1.9	2.4	1.7	14.6
9/27/15 2:11	37.240	-98.194	1.1	2.4	1.6	12.2
9/27/15 4:10	37.159	-98.063	2.0	3.1	2.1	19.0
9/27/15 5:52	37.271	-97.962	2.0	3.3	2.4	15.0
9/27/15 10:37	37.103	-98.085	1.9	1.9	1.1	17.6
9/27/15 10:42	37.103	-98.176	1.9	3.3	1.7	16.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
9/27/15 12:07	37.088	-98.092	2.1	2.0	1.2	18.4
9/27/15 19:38	37.328	-97.475	1.7	1.4	1.5	13.9
9/27/15 23:25	37.248	-97.847	1.8	3.7	2.5	15.2
9/27/15 23:29	37.088	-97.515	1.9	1.9	1.6	18.6
9/27/15 23:29	37.082	-97.514	1.8	1.8	1.5	18.2
9/28/15 1:39	37.080	-97.524	2.3	2.5	1.8	20.3
9/28/15 1:56	37.090	-97.509	1.6	2.3	1.8	17.6
9/28/15 2:03	37.057	-97.534	1.9	4.6	3.6	18.6
9/28/15 2:05	37.083	-97.522	1.8	2.6	2.2	18.2
9/28/15 4:18	37.088	-97.521	2.0	2.1	1.7	19.0
9/28/15 6:10	37.249	-97.552	0.9	1.6	2.0	11.8
9/28/15 7:39	37.154	-98.271	2.2	7.0	3.1	14.8
9/28/15 10:37	37.083	-97.524	1.6	3.0	2.0	17.6
9/28/15 10:39	37.071	-97.531	2.1	3.1	2.3	19.4
9/28/15 10:48	37.082	-97.517	1.9	2.9	2.1	18.6
9/28/15 10:50	37.065	-97.533	1.7	2.0	1.7	17.9
9/28/15 14:53	37.240	-97.905	1.5	5.4	8.1	14.3
9/28/15 14:53	37.120	-97.666	1.1	2.5	2.3	12.2
9/29/15 1:20	37.113	-97.554	1.8	4.9	4.6	18.2
9/29/15 3:29	37.001	-97.996	2.3	2.7	1.1	15.3
9/29/15 4:36	37.051	-97.540	2.0	4.4	3.5	19.0
9/29/15 7:16	37.196	-97.788	2.0	3.5	4.6	15.0
9/29/15 17:51	38.907	-97.435	2.0	3.4	3.8	7.0
9/29/15 20:13	37.522	-97.780	1.3	2.8	2.8	12.7
9/29/15 21:15	37.409	-98.009	1.4	1.6	1.4	13.0
9/29/15 23:23	37.008	-98.355	1.4	2.6	2.5	9.0
9/30/15 5:43	37.125	-97.685	2.0	2.0	1.9	16.0
9/30/15 5:47	37.087	-97.715	1.9	3.5	1.7	15.6
9/30/15 7:10	37.135	-97.975	2.3	3.1	1.8	16.3
9/30/15 8:17	39.174	-99.155	2.4	5.7	7.6	8.8
9/30/15 9:05	37.239	-97.572	2.6	1.2	1.3	17.8
9/30/15 10:52	37.262	-98.693	1.8	4.4	1.6	10.2
9/30/15 16:52	37.235	-98.011	2.2	1.8	1.3	16.8
9/30/15 16:52	37.229	-97.997	2.2	2.0	1.2	16.8
9/30/15 21:36	37.276	-97.917	1.3	4.6	3.5	12.7
9/30/15 22:22	37.004	-97.501	2.1	3.3	2.2	15.4
10/1/15 2:01	37.554	-97.770	1.9	3.3	2.4	16.6
10/1/15 2:42	37.160	-97.383	1.6	6.8	5.2	13.6
10/1/15 3:45	37.073	-97.527	2.1	1.8	1.4	19.4
10/1/15 4:58	37.048	-97.136	1.6	3.5	3.1	5.6
10/1/15 5:22	37.097	-97.499	1.7	2.6	1.8	17.9
10/1/15 6:08	37.074	-97.520	2.1	3.0	1.7	19.4
10/1/15 6:13	37.056	-97.531	1.8	1.3	0.9	18.2
10/1/15 6:20	37.083	-97.513	1.7	3.2	2.9	17.9
10/1/15 9:11	37.560	-97.748	1.6	1.1	1.1	15.6
10/1/15 12:07	37.016	-97.575	1.7	4.8	4.1	17.9
10/1/15 13:34	37.361	-97.852	1.1	6.0	7.9	14.2
10/1/15 14:28	37.523	-97.808	1.5	1.9	1.5	16.3
10/1/15 20:53	37.410	-98.004	0.9	5.6	3.0	11.8
10/1/15 21:10	37.065	-97.530	1.8	4.0	3.1	18.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/1/15 22:09	37.110	-98.124	1.9	3.5	2.2	14.6
10/2/15 0:51	37.288	-98.744	0.7	6.5	4.9	7.5
10/2/15 6:05	37.317	-97.526	1.3	0.9	1.2	16.7
10/2/15 8:58	37.008	-97.485	1.5	2.3	1.7	17.3
10/2/15 9:04	37.275	-97.616	1.9	1.3	1.4	18.6
10/2/15 9:26	37.276	-97.619	1.4	1.8	2.3	17.0
10/2/15 9:43	37.374	-97.758	2.3	0.6	0.7	18.3
10/2/15 10:29	37.000	-97.551	1.2	6.9	6.2	16.4
10/2/15 10:31	37.376	-97.756	1.9	0.6	0.7	16.6
10/2/15 10:37	37.363	-97.766	1.0	0.8	1.1	14.0
10/2/15 11:13	37.377	-97.755	2.5	0.7	0.9	18.3
10/2/15 11:44	37.369	-97.887	1.4	1.8	2.5	14.0
10/2/15 12:18	37.302	-97.591	0.8	1.3	3.6	15.6
10/2/15 12:24	37.528	-97.792	1.3	1.8	1.7	13.7
10/2/15 12:31	37.203	-97.628	1.6	5.3	1.5	17.6
10/2/15 14:16	37.296	-97.576	0.6	1.6	2.8	14.4
10/2/15 14:18	37.252	-97.660	2.2	2.4	3.4	15.8
10/2/15 17:14	37.211	-97.971	2.0	2.1	1.0	18.0
10/2/15 17:27	37.291	-97.642	1.7	2.5	5.5	17.9
10/2/15 17:45	37.200	-97.624	1.3	2.2	2.2	16.7
10/2/15 17:57	37.192	-97.628	1.4	1.5	1.0	17.0
10/2/15 19:06	37.167	-97.912	1.0	4.0	3.0	12.0
10/2/15 19:28	37.298	-97.593	0.7	1.6	4.0	14.5
10/2/15 19:49	37.200	-97.626	1.6	2.5	2.5	17.6
10/2/15 22:18	37.085	-97.503	1.8	3.0	2.6	18.2
10/2/15 23:20	37.294	-97.562	1.3	3.1	4.1	16.7
10/2/15 23:43	37.232	-98.017	2.0	3.5	1.9	19.0
10/3/15 0:47	37.347	-98.016	1.8	0.9	1.1	15.2
10/3/15 1:39	37.050	-97.546	1.4	3.0	3.1	17.0
10/3/15 2:43	37.067	-97.536	1.8	3.4	3.2	18.2
10/3/15 4:05	37.296	-97.604	1.7	2.0	2.7	17.9
10/3/15 4:16	37.302	-97.600	0.7	0.9	1.5	15.5
10/3/15 5:12	37.103	-97.706	3.0	1.3	0.8	21.0
10/3/15 6:27	37.315	-97.529	1.3	1.4	1.8	16.7
10/3/15 7:13	37.080	-97.508	1.9	2.4	2.0	18.6
10/3/15 7:34	37.227	-98.044	2.0	1.5	1.6	19.0
10/3/15 8:02	37.192	-97.994	1.6	3.3	2.9	17.6
10/3/15 8:13	37.374	-97.769	1.5	1.1	1.5	17.3
10/3/15 8:24	37.670	-98.079	1.2	2.9	4.4	4.4
10/3/15 9:35	37.130	-97.539	1.4	7.8	7.8	17.0
10/3/15 9:38	37.060	-97.531	1.6	2.3	2.2	17.6
10/3/15 9:40	37.103	-97.481	1.2	3.4	2.8	16.4
10/3/15 9:42	37.058	-97.538	1.4	2.3	1.9	17.0
10/3/15 9:46	37.064	-97.527	2.6	1.7	1.5	16.8
10/3/15 10:01	37.211	-97.665	1.2	5.2	1.3	16.4
10/3/15 11:53	37.100	-97.699	1.7	2.6	1.6	15.9
10/3/15 12:47	37.229	-98.206	2.0	4.8	1.8	15.0
10/3/15 13:45	37.772	-97.950	1.2	4.4	2.8	4.4
10/3/15 13:53	37.058	-97.719	1.5	3.1	1.6	15.3
10/3/15 16:39	37.368	-97.750	1.7	1.3	1.2	17.9

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/3/15 17:13	37.316	-97.527	1.4	1.8	2.5	17.0
10/3/15 17:33	37.084	-98.040	2.6	3.0	1.4	16.8
10/3/15 19:02	37.081	-98.019	1.9	4.8	3.2	15.6
10/3/15 22:17	37.069	-97.505	1.7	1.4	0.8	17.9
10/3/15 22:21	37.189	-97.981	1.8	1.7	0.9	17.2
10/4/15 0:42	37.311	-97.930	1.9	2.3	1.7	15.6
10/4/15 1:55	37.114	-97.708	1.7	3.4	5.3	15.9
10/4/15 2:30	37.094	-98.030	1.5	1.9	1.6	14.3
10/4/15 3:28	37.160	-97.557	2.2	2.1	1.3	14.8
10/4/15 3:40	37.313	-97.530	1.0	0.7	1.8	16.0
10/4/15 3:46	37.322	-97.514	1.2	1.6	2.8	16.4
10/4/15 3:48	37.069	-97.523	1.9	3.9	3.2	18.6
10/4/15 6:08	37.042	-97.163	1.6	2.2	1.9	7.6
10/4/15 6:56	37.317	-97.536	0.6	1.5	2.4	12.4
10/4/15 7:41	37.311	-97.533	2.0	2.9	3.5	18.0
10/4/15 8:00	37.380	-97.763	1.6	0.6	0.9	17.6
10/4/15 9:12	37.284	-97.531	1.5	1.6	1.8	17.3
10/4/15 9:17	37.378	-97.758	1.6	0.7	0.9	16.6
10/4/15 9:55	37.341	-97.739	1.5	3.7	5.4	16.3
10/4/15 11:35	37.223	-97.889	2.4	2.6	2.0	16.8
10/4/15 12:15	37.228	-97.881	1.6	1.8	2.3	13.6
10/4/15 12:47	37.149	-97.831	1.8	5.4	1.8	16.2
10/4/15 14:30	37.309	-97.536	1.5	1.3	1.8	17.3
10/4/15 17:33	37.315	-97.524	1.9	0.6	1.0	18.6
10/4/15 18:46	37.320	-97.517	1.6	1.3	1.8	17.6
10/4/15 19:22	37.311	-97.523	2.0	2.1	2.6	18.0
10/5/15 2:43	37.005	-98.871	1.7	4.6	2.0	10.9
10/5/15 3:13	37.094	-97.835	1.5	2.4	1.6	15.3
10/5/15 3:24	37.108	-97.826	1.4	1.8	1.2	15.0
10/5/15 4:00	37.323	-97.571	1.1	1.5	2.9	15.2
10/5/15 6:44	37.201	-97.545	1.0	7.7	7.0	13.0
10/5/15 10:27	37.050	-98.847	1.9	2.0	3.2	13.6
10/5/15 16:06	37.047	-97.945	1.7	4.2	5.1	13.9
10/6/15 0:53	37.497	-97.835	2.2	1.8	1.7	16.8
10/6/15 1:23	37.417	-97.703	2.0	2.9	3.3	14.0
10/6/15 1:37	37.435	-98.705	1.7	2.1	4.8	13.9
10/6/15 6:02	37.484	-97.820	1.8	1.6	1.9	15.2
10/6/15 6:12	37.088	-97.507	1.9	1.8	1.3	14.6
10/6/15 7:14	37.043	-97.810	1.8	4.4	1.8	14.2
10/6/15 12:48	37.167	-97.818	1.9	3.1	3.0	14.6
10/6/15 13:18	37.108	-98.039	2.3	2.1	1.4	16.3
10/6/15 14:50	37.227	-97.500	1.4	7.7	7.9	16.0
10/6/15 15:09	37.193	-97.393	1.3	5.5	5.1	12.7
10/6/15 16:21	37.330	-97.506	2.1	1.6	1.9	18.4
10/6/15 16:38	37.190	-97.558	1.8	2.2	2.3	18.2
10/6/15 16:53	37.354	-97.462	1.1	4.4	6.0	15.2
10/6/15 19:02	37.283	-97.612	1.2	1.3	2.3	16.4
10/6/15 21:18	37.194	-97.620	1.6	2.0	2.5	17.6
10/7/15 0:39	37.316	-97.521	2.3	2.2	2.2	17.3
10/7/15 1:24	37.333	-97.607	0.6	5.1	6.8	13.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/7/15 2:37	37.317	-97.518	1.2	0.8	1.3	16.4
10/7/15 2:39	37.292	-97.514	1.0	1.4	1.7	16.0
10/7/15 3:15	37.156	-98.319	1.7	6.4	2.2	14.9
10/7/15 3:31	37.318	-97.518	1.6	0.8	1.2	17.6
10/7/15 3:39	37.428	-98.006	1.5	2.4	3.4	14.3
10/7/15 5:01	37.319	-97.522	1.8	0.6	1.0	17.2
10/7/15 5:38	37.412	-97.975	1.9	1.3	1.3	16.6
10/7/15 9:49	37.233	-98.003	1.6	1.3	0.9	13.6
10/7/15 9:59	37.011	-97.548	1.3	5.3	2.4	16.7
10/7/15 10:00	37.076	-97.514	1.2	2.4	1.9	16.4
10/7/15 10:01	37.072	-97.514	2.4	2.1	1.5	17.8
10/7/15 10:03	37.071	-97.527	1.1	2.7	2.6	16.2
10/7/15 11:15	37.071	-97.531	2.2	2.6	1.5	16.8
10/7/15 11:38	37.196	-97.633	2.0	1.4	1.0	19.0
10/7/15 11:41	37.199	-97.624	1.6	1.4	1.0	17.6
10/7/15 12:01	37.087	-97.506	1.2	2.6	2.3	16.4
10/7/15 12:04	37.196	-97.630	1.5	1.5	0.9	17.3
10/7/15 13:19	37.518	-97.855	1.1	1.9	1.8	12.2
10/7/15 14:48	37.215	-97.570	1.9	3.7	2.5	18.6
10/7/15 15:39	37.175	-97.640	1.6	2.7	3.2	17.6
10/7/15 15:43	37.192	-97.617	1.8	1.7	1.9	18.2
10/7/15 16:41	37.412	-98.249	1.5	2.9	2.3	5.3
10/7/15 18:00	37.143	-98.032	1.0	5.1	4.0	12.0
10/7/15 18:33	37.315	-97.536	0.6	1.2	1.8	15.4
10/7/15 18:45	37.126	-97.834	1.5	2.8	1.3	14.3
10/7/15 22:38	37.318	-97.524	1.1	1.5	2.0	16.2
10/8/15 1:22	37.095	-98.294	1.8	4.2	2.1	18.2
10/8/15 1:32	37.170	-97.880	2.1	7.4	4.5	15.4
10/8/15 3:03	37.080	-98.022	2.1	3.2	2.3	17.4
10/8/15 3:08	37.338	-98.003	1.8	2.2	2.0	15.2
10/8/15 3:24	37.092	-98.291	1.9	5.7	2.8	18.6
10/8/15 3:40	37.313	-97.548	0.6	1.0	1.7	13.4
10/8/15 4:51	37.098	-98.291	1.7	3.1	2.0	17.9
10/8/15 5:43	37.512	-97.820	2.1	3.0	3.1	15.4
10/8/15 6:04	37.107	-98.302	1.9	6.6	3.6	18.6
10/8/15 6:26	37.092	-97.528	1.6	3.4	2.9	17.6
10/8/15 8:26	37.068	-97.939	2.0	3.2	1.5	16.0
10/8/15 9:09	37.132	-98.295	2.1	3.0	1.4	18.4
10/8/15 9:35	37.193	-97.624	1.8	1.5	1.5	18.2
10/8/15 9:53	37.191	-97.629	1.1	2.5	3.1	16.2
10/8/15 10:06	37.065	-97.530	1.5	2.0	1.8	16.3
10/8/15 10:24	37.181	-97.635	2.1	2.4	1.7	19.4
10/8/15 10:27	37.143	-98.293	2.1	5.4	2.5	18.4
10/8/15 11:05	37.308	-98.769	1.0	5.1	4.3	10.0
10/8/15 11:18	37.083	-97.537	1.0	3.1	2.8	14.0
10/8/15 11:29	37.151	-97.602	1.6	4.0	2.9	17.6
10/8/15 11:39	37.119	-98.300	2.2	3.5	1.3	19.8
10/8/15 11:39	37.042	-98.289	1.6	4.3	1.8	17.6
10/8/15 12:41	37.087	-97.854	1.4	2.7	1.6	14.0
10/8/15 12:50	37.134	-97.666	1.2	2.2	2.3	16.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/8/15 13:13	37.116	-98.296	1.9	5.5	2.2	18.6
10/8/15 14:06	37.515	-97.797	1.5	1.4	1.5	16.3
10/8/15 14:08	37.501	-97.807	1.7	1.9	2.1	16.9
10/8/15 14:33	37.231	-98.013	1.5	2.6	1.7	13.3
10/8/15 14:50	37.030	-98.270	2.2	5.0	2.8	18.8
10/8/15 15:11	37.343	-97.537	1.5	1.0	1.6	14.3
10/8/15 15:58	37.339	-97.579	0.7	1.7	2.9	14.5
10/8/15 16:17	37.552	-97.710	1.0	6.3	8.9	13.0
10/8/15 17:37	37.393	-97.873	1.4	4.1	6.4	13.0
10/8/15 17:50	37.074	-98.282	2.1	4.3	2.2	19.4
10/8/15 17:54	37.365	-97.386	1.3	5.1	6.3	10.7
10/8/15 18:09	37.223	-97.567	1.3	2.8	3.6	16.7
10/8/15 18:43	37.207	-97.596	1.7	3.5	2.7	17.9
10/8/15 18:49	37.081	-98.226	1.4	1.5	2.3	17.0
10/8/15 18:55	37.229	-98.184	2.3	2.5	1.9	16.3
10/8/15 19:14	37.219	-97.587	1.4	4.6	5.8	17.0
10/8/15 19:20	37.205	-97.593	1.1	4.0	2.9	16.2
10/8/15 19:21	37.221	-97.579	0.7	4.4	5.6	13.5
10/8/15 19:40	37.516	-97.819	1.2	1.4	1.4	15.4
10/8/15 21:15	37.050	-98.049	2.0	1.8	1.5	19.0
10/8/15 22:41	37.077	-98.306	2.0	4.8	2.2	19.0
10/8/15 23:40	37.156	-97.633	1.7	2.8	4.1	17.9
10/9/15 14:00	37.117	-98.027	2.3	4.4	3.1	18.3
10/9/15 14:27	37.086	-97.541	1.2	2.0	2.0	14.4
10/9/15 14:31	37.089	-98.032	1.5	2.4	2.5	15.3
10/9/15 14:59	37.079	-97.936	0.8	1.7	1.5	11.6
10/9/15 15:48	37.081	-97.986	1.6	1.4	1.3	16.6
10/9/15 17:39	37.565	-97.751	0.9	1.5	1.7	12.8
10/9/15 18:15	37.195	-97.654	1.4	2.1	1.9	17.0
10/9/15 23:13	37.162	-97.638	1.4	4.6	5.7	17.0
10/9/15 23:14	37.190	-97.629	1.3	1.0	0.7	16.7
10/10/15 0:07	37.058	-97.716	1.3	2.3	1.2	13.7
10/10/15 1:23	37.218	-97.992	2.5	3.4	2.2	20.3
10/10/15 1:25	37.227	-97.990	2.9	1.8	1.1	19.4
10/10/15 2:08	37.195	-97.625	1.8	1.4	0.9	18.2
10/10/15 2:20	37.203	-97.625	2.2	2.1	2.6	16.8
10/10/15 2:22	37.043	-98.245	2.1	5.6	4.7	18.4
10/10/15 3:03	37.058	-97.867	2.0	1.7	1.0	14.0
10/10/15 4:07	37.225	-97.991	2.2	1.9	1.3	19.8
10/10/15 4:43	37.230	-97.986	2.0	3.2	3.1	19.0
10/10/15 6:52	37.243	-97.990	2.0	3.1	2.3	19.0
10/10/15 7:28	37.213	-97.632	1.7	3.2	0.9	17.9
10/10/15 8:33	37.088	-98.285	1.7	3.5	1.9	17.9
10/10/15 8:52	37.152	-97.982	2.1	4.6	2.8	19.4
10/10/15 9:38	37.211	-97.961	2.3	3.0	2.2	20.3
10/10/15 10:01	37.023	-97.515	1.7	6.0	1.4	15.9
10/10/15 10:10	37.386	-97.716	1.5	0.7	0.9	13.3
10/10/15 11:36	37.288	-97.509	1.1	0.7	0.9	12.2
10/10/15 12:19	37.033	-97.505	1.4	2.5	1.8	15.0
10/10/15 12:44	37.258	-97.987	1.4	1.8	2.4	16.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/10/15 12:53	37.216	-97.972	2.0	3.4	2.8	19.0
10/10/15 14:54	37.216	-97.983	2.2	2.2	1.5	19.8
10/10/15 15:34	37.236	-97.996	1.5	1.3	0.8	17.3
10/10/15 15:37	37.206	-97.980	1.7	5.7	2.7	17.9
10/10/15 15:49	37.218	-97.980	1.4	2.6	2.0	16.0
10/10/15 19:07	37.077	-97.725	1.6	2.2	0.9	15.6
10/10/15 19:40	37.101	-98.043	2.1	1.7	1.3	16.4
10/10/15 19:58	37.097	-98.287	1.8	3.6	2.3	18.2
10/10/15 21:33	37.107	-98.342	1.5	4.0	3.4	16.3
10/10/15 23:19	37.233	-98.001	2.1	2.4	1.8	19.4
10/11/15 0:54	37.088	-98.303	1.9	2.2	1.1	18.6
10/11/15 4:26	37.582	-97.814	2.2	2.3	2.7	15.8
10/11/15 5:28	37.412	-98.911	2.0	2.0	2.5	13.0
10/11/15 6:50	37.071	-98.228	2.2	2.8	2.5	17.8
10/11/15 7:53	37.070	-97.720	1.9	1.8	1.2	15.6
10/11/15 8:57	37.216	-97.977	2.3	1.4	1.0	20.3
10/11/15 9:20	37.224	-97.989	2.3	2.3	1.6	20.3
10/11/15 9:30	37.221	-97.987	2.4	3.1	2.1	20.8
10/11/15 11:51	37.117	-98.007	1.5	1.6	1.7	17.3
10/11/15 19:28	37.198	-97.986	1.7	2.0	1.3	17.9
10/11/15 20:50	37.211	-97.972	2.0	2.5	2.0	19.0
10/11/15 20:55	37.191	-97.630	1.3	1.8	2.2	15.7
10/11/15 21:02	37.228	-97.977	2.1	2.5	1.9	19.4
10/11/15 21:24	37.069	-97.524	2.3	1.5	1.3	19.3
10/11/15 21:36	37.086	-97.523	1.9	3.7	3.3	18.6
10/11/15 22:00	37.234	-97.940	1.4	2.2	3.9	15.0
10/11/15 22:00	37.192	-97.965	1.2	3.1	2.4	16.4
10/11/15 22:04	37.069	-97.522	1.8	2.3	1.6	18.2
10/11/15 23:46	37.066	-97.932	2.9	2.4	1.5	19.4
10/12/15 0:00	37.023	-97.931	1.1	8.1	6.9	12.2
10/12/15 0:05	37.061	-97.940	1.9	1.7	1.6	18.6
10/12/15 0:09	37.057	-97.944	2.5	3.8	2.5	20.3
10/12/15 0:11	37.017	-97.940	2.0	5.3	3.7	19.0
10/12/15 0:16	37.080	-97.923	1.9	2.3	1.7	18.6
10/12/15 0:56	37.038	-97.546	2.2	3.8	3.3	19.8
10/12/15 1:29	37.189	-97.638	1.3	1.2	0.9	15.7
10/12/15 2:20	37.191	-97.630	2.0	0.8	0.7	19.0
10/12/15 3:57	37.188	-97.642	2.1	1.7	1.2	19.4
10/12/15 4:36	37.049	-97.915	2.0	3.5	2.9	19.0
10/12/15 4:37	37.189	-97.635	1.9	1.1	0.7	18.6
10/12/15 4:43	37.168	-97.631	1.9	2.1	1.5	18.6
10/12/15 5:24	37.075	-97.510	1.7	2.2	1.9	17.9
10/12/15 5:25	37.132	-97.947	1.4	5.8	4.1	17.0
10/12/15 5:56	37.193	-97.635	2.0	1.1	0.8	19.0
10/12/15 6:06	37.043	-98.008	2.2	2.4	2.2	19.8
10/12/15 6:08	37.097	-98.030	2.2	2.0	1.3	18.8
10/12/15 6:15	37.582	-97.807	2.0	3.2	2.2	16.0
10/12/15 6:23	37.205	-97.706	1.5	6.8	2.0	17.3
10/12/15 8:27	37.201	-97.628	1.8	2.8	2.8	18.2
10/12/15 8:57	37.193	-97.634	2.0	1.0	0.6	19.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/12/15 10:15	37.217	-97.981	2.4	1.6	1.0	20.8
10/12/15 10:23	37.223	-97.997	2.6	3.4	2.1	20.8
10/12/15 13:20	37.193	-97.639	2.0	1.4	1.0	19.0
10/12/15 13:48	37.080	-97.910	2.1	2.7	1.7	19.4
10/12/15 22:55	37.334	-97.807	1.9	1.5	2.6	16.6
10/12/15 23:09	37.392	-97.722	1.8	2.4	3.5	15.2
10/12/15 23:53	37.099	-97.595	1.6	1.7	1.8	17.6
10/12/15 23:55	37.463	-97.850	1.2	3.3	1.5	12.4
10/13/15 0:01	37.350	-97.850	1.8	2.1	2.3	16.2
10/13/15 0:17	37.101	-97.591	1.8	1.5	1.7	18.2
10/13/15 2:53	37.349	-97.769	1.6	1.4	2.2	16.6
10/13/15 4:41	37.197	-98.003	2.1	2.9	1.9	19.4
10/13/15 4:50	37.523	-97.813	1.8	2.4	2.0	16.2
10/13/15 5:15	37.263	-98.003	2.2	1.8	1.5	18.8
10/13/15 5:34	37.212	-97.997	1.7	1.5	2.9	14.9
10/13/15 6:32	37.244	-97.566	2.3	1.1	0.9	20.3
10/13/15 6:39	37.033	-99.263	2.2	3.3	1.6	7.8
10/13/15 8:03	37.244	-97.567	1.6	1.8	1.9	17.6
10/13/15 8:04	37.246	-97.558	1.4	1.2	1.5	16.0
10/13/15 12:41	37.024	-97.585	2.2	3.1	2.2	17.8
10/13/15 13:09	37.056	-99.267	1.5	5.5	2.2	7.3
10/13/15 13:17	37.068	-97.528	1.9	2.4	1.9	18.6
10/13/15 15:38	37.194	-97.631	1.9	1.0	1.0	18.6
10/13/15 19:53	37.559	-97.749	1.7	1.2	1.1	15.9
10/13/15 20:22	37.181	-97.745	1.9	4.2	2.8	15.6
10/13/15 22:35	37.174	-97.641	1.4	1.9	2.8	17.0
10/13/15 23:46	37.137	-98.910	1.2	7.6	8.6	4.4
10/14/15 1:37	37.080	-97.868	2.3	2.2	1.1	19.3
10/14/15 2:06	37.098	-97.857	2.2	1.8	1.3	18.8
10/14/15 6:27	37.601	-97.754	2.0	1.2	1.2	17.0
10/14/15 6:51	37.073	-97.861	1.8	3.1	1.3	18.2
10/14/15 8:37	37.064	-97.865	1.7	6.6	3.0	17.9
10/14/15 9:24	37.241	-97.564	2.3	1.4	2.0	18.3
10/14/15 10:31	37.189	-97.611	1.8	2.5	3.6	17.2
10/14/15 13:16	37.071	-97.524	1.7	1.9	1.4	17.9
10/14/15 14:17	37.076	-97.524	2.2	2.3	1.8	19.8
10/14/15 14:19	37.073	-97.522	2.6	3.5	2.5	19.8
10/14/15 14:24	37.072	-97.526	2.0	3.0	2.6	19.0
10/14/15 15:16	37.076	-97.518	1.8	3.3	2.8	18.2
10/14/15 17:20	37.089	-97.511	1.9	2.9	2.6	18.6
10/14/15 17:56	37.064	-97.528	1.6	2.1	1.8	17.6
10/14/15 18:13	37.079	-97.510	1.6	4.7	4.1	17.6
10/14/15 19:27	37.070	-97.527	2.2	3.0	2.6	19.8
10/14/15 19:27	37.076	-97.523	1.4	5.2	4.4	17.0
10/14/15 20:25	37.051	-97.543	1.9	6.1	5.3	18.6
10/14/15 21:53	37.066	-97.526	2.1	1.9	1.6	19.4
10/14/15 21:55	37.074	-97.518	1.3	2.6	2.4	16.7
10/14/15 22:06	37.077	-97.878	2.0	3.7	2.0	19.0
10/15/15 3:05	37.070	-97.917	1.7	2.5	1.4	17.9
10/15/15 4:23	37.630	-97.738	2.1	1.7	2.2	16.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/15/15 4:27	37.056	-97.364	1.5	3.0	1.5	5.3
10/15/15 4:36	37.243	-98.136	2.1	2.2	1.8	16.4
10/15/15 4:40	37.246	-98.150	1.9	1.9	4.7	15.6
10/15/15 5:06	37.066	-97.530	1.9	1.3	1.0	18.6
10/15/15 5:10	37.070	-97.951	1.3	3.0	1.9	16.7
10/15/15 5:10	37.021	-97.942	2.2	3.9	2.3	19.8
10/15/15 5:23	37.061	-97.942	2.0	1.8	1.1	19.0
10/15/15 5:39	37.207	-97.963	2.1	3.5	2.5	17.4
10/15/15 6:18	37.086	-97.511	1.8	3.9	3.4	18.2
10/15/15 7:20	37.058	-97.941	2.1	3.1	1.9	19.4
10/15/15 14:42	37.075	-98.266	2.1	3.5	3.2	15.4
10/15/15 21:24	37.219	-97.979	2.2	1.5	1.0	17.8
10/15/15 21:25	37.241	-97.994	2.5	2.2	1.7	18.3
10/15/15 21:48	37.057	-97.940	2.3	2.3	1.5	20.3
10/15/15 22:04	37.066	-97.926	1.9	4.0	2.9	18.6
10/15/15 22:09	37.062	-97.916	1.4	4.0	3.2	17.0
10/16/15 0:43	37.020	-97.575	1.9	2.3	1.9	17.6
10/16/15 1:14	37.021	-97.741	1.5	3.1	2.0	13.3
10/16/15 4:36	37.018	-97.958	1.9	2.2	1.9	18.6
10/16/15 10:43	37.065	-97.521	1.6	1.7	1.3	16.6
10/16/15 10:43	37.076	-97.516	1.2	2.3	2.1	14.4
10/16/15 14:31	37.122	-97.296	1.4	2.6	1.3	10.0
10/16/15 16:58	37.132	-97.293	1.3	4.8	2.5	9.7
10/16/15 17:47	37.108	-98.885	2.2	6.0	4.8	11.8
10/16/15 18:19	37.208	-97.758	1.5	1.1	0.8	15.3
10/16/15 18:20	37.215	-97.761	1.9	1.3	0.9	16.6
10/16/15 23:23	37.236	-97.756	1.8	1.6	1.2	16.2
10/17/15 0:30	37.139	-97.523	1.2	3.4	3.1	14.4
10/17/15 1:54	37.226	-98.021	2.0	2.7	2.1	18.0
10/17/15 1:57	37.049	-97.891	2.0	3.4	2.2	19.0
10/17/15 3:06	37.234	-97.966	2.0	4.8	2.7	19.0
10/17/15 3:41	37.233	-97.969	1.7	2.3	2.1	16.9
10/17/15 4:37	37.391	-97.712	2.1	1.0	1.2	14.4
10/17/15 4:45	37.204	-97.539	2.1	2.8	2.9	15.4
10/17/15 5:25	37.107	-98.193	1.8	5.4	2.9	14.2
10/17/15 7:51	37.029	-97.966	1.9	6.3	6.2	18.6
10/17/15 8:07	37.227	-97.873	1.8	0.9	0.8	17.2
10/17/15 9:33	37.215	-97.950	2.3	3.1	1.5	19.3
10/17/15 12:12	37.068	-97.940	3.1	2.7	1.4	22.6
10/17/15 12:48	37.045	-98.776	2.5	4.1	3.0	15.3
10/17/15 13:20	37.060	-97.951	3.0	3.1	1.8	22.0
10/17/15 13:54	37.080	-97.848	2.2	4.4	5.3	19.8
10/17/15 14:01	37.082	-97.920	1.4	4.7	4.0	17.0
10/17/15 15:06	37.064	-97.944	2.2	4.7	2.9	19.8
10/17/15 15:14	37.046	-97.553	1.3	3.1	2.1	13.7
10/17/15 15:27	37.369	-97.743	1.1	0.8	1.0	12.2
10/17/15 15:52	37.055	-97.540	2.2	2.8	2.0	19.8
10/17/15 16:56	37.057	-97.918	2.3	2.7	1.7	20.3
10/17/15 17:08	37.057	-98.016	1.7	6.8	6.9	17.9
10/17/15 18:04	37.054	-97.945	2.6	3.9	2.6	20.8

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/17/15 18:28	37.058	-97.517	2.0	3.6	3.2	19.0
10/17/15 20:25	37.053	-97.532	2.4	2.3	1.6	20.8
10/18/15 2:00	37.062	-97.941	2.3	4.4	3.0	20.3
10/18/15 2:25	37.063	-97.522	1.6	2.1	1.8	17.6
10/18/15 3:09	37.039	-97.962	1.3	3.6	3.1	16.7
10/18/15 6:02	37.654	-97.771	1.2	3.5	2.9	12.4
10/18/15 6:04	37.085	-98.064	0.6	4.1	2.5	12.4
10/18/15 6:27	37.050	-97.938	1.7	1.9	1.1	17.9
10/18/15 6:32	37.080	-97.934	1.7	3.9	2.4	17.9
10/18/15 6:37	37.055	-97.929	2.2	2.8	2.0	19.8
10/18/15 6:51	37.222	-97.742	2.2	2.7	2.0	17.8
10/18/15 7:08	37.069	-97.529	2.5	2.4	1.7	20.3
10/18/15 7:37	37.219	-97.757	1.8	3.1	2.2	17.2
10/18/15 7:58	37.203	-97.751	1.5	2.8	2.0	15.3
10/18/15 8:03	37.246	-98.743	1.3	1.4	1.0	12.7
10/18/15 8:51	37.027	-97.550	2.1	5.1	3.5	19.4
10/18/15 10:45	37.241	-97.986	1.9	2.4	2.3	18.6
10/18/15 10:56	37.066	-97.942	2.3	2.8	1.8	20.3
10/18/15 11:22	37.200	-97.758	1.8	1.2	0.9	17.2
10/18/15 11:24	37.065	-97.936	2.1	3.8	1.8	19.4
10/18/15 11:27	37.067	-97.945	1.9	1.7	1.1	18.6
10/18/15 11:58	37.152	-98.000	0.7	1.5	1.4	13.5
10/18/15 12:18	37.074	-97.918	2.1	4.3	2.8	19.4
10/18/15 13:25	37.083	-97.947	2.1	4.5	3.0	19.4
10/18/15 14:20	37.208	-97.959	2.2	4.1	2.6	19.8
10/18/15 14:40	37.231	-97.991	2.1	2.8	2.1	19.4
10/18/15 17:30	37.047	-97.939	2.0	6.7	4.9	19.0
10/18/15 17:37	37.063	-97.529	1.9	1.6	1.1	18.6
10/18/15 19:16	37.221	-97.974	2.3	3.0	2.2	20.3
10/18/15 21:11	37.213	-97.988	1.7	2.9	2.3	17.9
10/18/15 21:38	37.202	-97.981	1.9	1.8	1.4	18.6
10/18/15 21:42	37.216	-97.986	2.4	2.7	2.0	20.8
10/18/15 22:04	37.273	-98.151	1.4	3.2	2.7	13.0
10/18/15 23:34	37.363	-98.776	2.3	5.9	3.3	12.3
10/18/15 23:37	37.186	-97.973	1.9	4.7	3.0	18.6
10/19/15 0:08	37.137	-97.608	2.3	3.3	2.4	17.3
10/19/15 0:47	37.080	-97.926	1.7	2.8	2.1	17.9
10/19/15 2:03	37.198	-97.969	1.4	1.8	1.0	17.0
10/19/15 3:14	37.052	-97.925	2.3	4.0	2.6	20.3
10/19/15 3:28	37.115	-97.553	1.7	1.8	1.4	15.9
10/19/15 4:42	37.072	-97.928	2.0	1.9	1.2	19.0
10/19/15 7:17	37.230	-97.988	1.2	2.1	2.1	16.4
10/19/15 7:34	37.241	-97.566	1.4	1.3	1.2	13.0
10/19/15 7:55	37.228	-98.057	2.1	2.9	3.9	19.4
10/19/15 8:06	37.229	-98.049	1.6	3.6	5.2	17.6
10/19/15 8:55	37.178	-98.154	2.3	3.2	2.1	16.3
10/19/15 9:10	37.002	-97.488	1.8	3.0	2.3	15.2
10/19/15 10:14	37.079	-97.618	2.0	5.1	3.8	18.0
10/19/15 10:16	37.061	-97.943	2.2	2.8	1.8	19.8
10/19/15 11:09	37.071	-97.917	2.3	6.5	4.0	20.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/19/15 11:14	37.061	-97.936	2.1	3.9	2.1	19.4
10/19/15 13:35	37.008	-97.952	1.8	8.6	4.6	18.2
10/20/15 5:19	37.186	-97.989	1.9	6.4	4.3	16.6
10/20/15 12:16	37.196	-97.760	2.3	0.9	0.7	18.3
10/20/15 12:31	37.213	-97.829	2.2	1.0	0.8	18.8
10/20/15 13:47	37.063	-97.810	1.8	1.7	1.0	15.2
10/20/15 18:36	37.186	-97.634	1.8	1.3	0.9	18.2
10/20/15 18:38	37.065	-97.937	1.8	3.9	2.8	14.2
10/21/15 0:18	37.127	-97.792	1.6	4.5	3.0	16.6
10/21/15 3:46	37.193	-97.760	2.4	2.2	1.4	20.8
10/21/15 4:03	37.213	-97.759	2.1	1.4	1.0	19.4
10/21/15 5:44	37.080	-97.519	1.8	3.0	2.3	15.2
10/21/15 7:53	37.186	-97.634	2.1	2.2	1.6	19.4
10/21/15 8:12	37.190	-97.637	1.3	1.6	1.1	16.7
10/21/15 8:13	37.193	-97.634	1.2	3.6	2.6	16.4
10/21/15 8:22	37.192	-97.637	1.6	1.6	1.1	17.6
10/21/15 9:30	37.157	-97.764	1.4	2.9	0.9	15.0
10/21/15 9:49	37.438	-97.761	0.9	1.9	2.7	12.8
10/21/15 11:40	37.195	-97.620	1.3	1.0	0.7	16.7
10/21/15 13:40	37.186	-97.998	1.6	2.4	1.5	17.6
10/21/15 14:19	37.184	-97.637	2.2	1.2	1.2	19.8
10/21/15 14:30	37.164	-97.635	1.7	3.1	3.9	17.9
10/21/15 15:04	37.173	-98.005	1.7	4.2	2.8	17.9
10/21/15 17:50	37.240	-98.022	1.6	1.8	2.3	17.6
10/21/15 18:20	37.072	-97.514	2.0	2.1	1.9	16.0
10/21/15 20:02	37.122	-97.616	2.2	2.8	2.0	17.8
10/21/15 20:07	37.027	-97.746	1.6	2.9	1.8	14.6
10/21/15 20:15	37.062	-97.856	1.7	3.3	1.5	17.9
10/21/15 21:42	37.211	-97.757	1.9	2.5	1.7	18.6
10/21/15 22:56	37.254	-97.599	2.1	2.9	1.7	18.4
10/21/15 23:33	37.350	-97.803	1.0	2.7	3.8	13.0
10/22/15 1:28	37.259	-98.036	1.3	3.0	2.1	15.7
10/22/15 1:43	37.257	-98.025	1.9	3.5	3.1	18.6
10/22/15 1:51	37.131	-98.844	1.8	2.9	1.8	12.2
10/22/15 3:51	37.067	-97.956	1.9	4.5	2.4	18.6
10/22/15 5:22	37.042	-97.731	1.8	3.1	1.4	17.2
10/22/15 5:52	37.212	-97.250	1.6	3.0	3.1	5.6
10/22/15 6:00	37.359	-97.797	1.4	0.6	0.8	15.0
10/22/15 7:06	37.037	-97.933	1.8	3.7	2.1	18.2
10/22/15 8:17	37.013	-97.937	1.9	3.2	1.5	17.6
10/22/15 10:14	37.172	-97.791	2.0	2.6	1.3	16.0
10/22/15 10:39	37.239	-97.564	1.3	1.1	1.0	13.7
10/22/15 11:08	37.227	-97.978	1.6	1.2	0.7	17.6
10/22/15 11:21	37.079	-98.026	1.7	4.2	4.4	15.9
10/22/15 21:02	37.251	-97.966	2.1	1.7	1.7	17.4
10/22/15 21:52	37.251	-98.880	1.9	2.5	1.8	6.6
10/22/15 22:54	37.164	-97.820	1.1	1.3	0.9	12.2
10/22/15 23:20	37.049	-97.730	1.5	1.7	0.9	15.3
10/23/15 0:04	37.074	-97.522	1.9	2.3	1.5	15.6
10/23/15 1:50	37.590	-97.804	1.8	2.2	1.7	16.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/23/15 1:55	37.536	-97.845	1.2	2.8	2.7	14.4
10/23/15 2:11	37.045	-97.673	1.9	2.5	1.7	16.6
10/23/15 4:25	37.348	-97.867	2.3	3.6	3.1	16.3
10/23/15 4:48	37.333	-97.855	2.0	2.5	2.0	16.0
10/23/15 5:12	37.484	-97.864	0.9	4.3	5.6	12.8
10/23/15 5:56	37.547	-97.838	1.5	1.4	1.0	16.3
10/23/15 7:20	37.650	-97.759	1.3	5.9	4.1	14.7
10/23/15 7:28	37.081	-97.513	2.1	2.4	1.7	16.4
10/23/15 8:39	37.133	-98.133	1.8	2.6	3.4	15.2
10/23/15 13:12	37.238	-97.616	1.6	2.3	1.7	13.6
10/23/15 14:41	37.126	-98.051	2.2	3.0	2.2	17.8
10/23/15 20:21	37.088	-97.984	2.3	4.1	3.1	19.3
10/23/15 21:46	37.059	-97.927	1.9	6.2	4.0	18.6
10/23/15 23:42	37.059	-98.787	2.1	2.6	1.3	15.4
10/24/15 2:05	37.574	-97.811	1.7	3.3	3.7	15.9
10/24/15 8:39	37.388	-97.922	1.7	5.9	5.6	13.9
10/24/15 10:45	37.095	-97.578	1.8	5.7	5.0	15.2
10/24/15 11:13	37.081	-97.947	1.4	5.8	2.7	17.0
10/24/15 11:33	37.037	-99.260	2.2	3.4	2.0	11.8
10/24/15 13:22	37.138	-97.583	2.0	5.4	5.9	16.0
10/24/15 14:00	37.064	-97.882	1.8	4.6	3.4	18.2
10/24/15 16:27	37.258	-97.999	2.3	2.4	2.0	16.3
10/24/15 20:44	37.608	-97.761	0.5	1.5	1.6	11.3
10/24/15 21:00	37.068	-97.936	1.4	1.9	1.6	17.0
10/25/15 2:04	37.123	-98.029	1.4	4.0	2.7	15.0
10/25/15 3:05	37.079	-98.041	1.8	8.3	4.6	17.2
10/25/15 3:41	37.364	-97.738	1.8	1.9	2.4	15.2
10/25/15 4:15	37.380	-97.754	1.8	2.4	2.6	15.2
10/25/15 10:51	37.024	-99.282	1.6	3.3	1.8	11.6
10/25/15 18:56	37.096	-97.728	1.4	8.8	7.1	15.0
10/25/15 21:34	37.064	-97.759	1.9	6.1	5.7	15.6
10/26/15 0:06	37.029	-98.804	1.8	3.7	2.8	14.2
10/26/15 6:08	37.095	-97.562	1.9	3.3	3.0	16.6
10/26/15 6:28	37.146	-97.808	1.3	1.5	1.5	14.7
10/26/15 7:45	37.112	-97.583	1.7	3.6	2.5	15.9
10/26/15 10:10	37.034	-97.918	1.7	7.7	5.8	15.9
10/26/15 11:21	37.638	-98.008	1.2	3.2	1.8	7.4
10/26/15 11:28	37.052	-97.892	1.8	7.1	5.3	16.2
10/26/15 20:34	37.217	-97.987	1.9	3.4	2.1	14.6
10/26/15 23:23	37.617	-98.009	1.7	1.4	1.2	13.9
10/27/15 0:30	37.088	-97.880	1.8	2.4	3.2	18.2
10/27/15 1:59	37.115	-97.484	1.0	5.7	4.6	14.0
10/27/15 2:21	37.124	-97.613	2.7	3.3	2.5	19.3
10/27/15 3:06	37.124	-97.614	2.5	1.9	1.4	19.3
10/27/15 3:10	37.083	-97.628	1.6	5.0	6.1	17.6
10/27/15 3:40	37.228	-97.524	0.8	2.1	1.9	12.6
10/27/15 5:55	37.623	-98.004	1.9	2.4	2.2	16.6
10/27/15 6:00	37.640	-98.022	1.9	2.7	1.6	18.6
10/27/15 7:53	37.129	-97.597	2.0	3.1	2.4	19.0
10/27/15 9:00	37.431	-98.949	1.3	1.2	1.4	6.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/27/15 9:05	37.003	-97.621	1.7	2.3	1.2	14.9
10/27/15 9:19	37.134	-97.573	1.6	3.8	3.9	17.6
10/27/15 12:27	37.140	-97.637	2.5	2.0	1.5	19.3
10/27/15 12:51	37.028	-97.933	2.1	4.8	2.4	19.4
10/27/15 13:11	37.636	-98.000	1.8	2.4	2.1	18.2
10/27/15 13:17	37.161	-97.608	1.5	1.7	2.1	17.3
10/27/15 14:57	37.043	-97.924	1.8	2.7	3.6	18.2
10/27/15 15:10	37.624	-98.012	2.0	1.9	1.5	18.0
10/27/15 17:09	37.249	-97.420	0.8	4.5	4.0	12.6
10/27/15 19:43	37.176	-97.556	1.5	2.5	3.1	17.3
10/27/15 20:41	37.107	-97.596	1.5	7.8	9.1	17.3
10/27/15 21:21	37.206	-97.364	1.4	5.7	6.2	11.0
10/27/15 22:27	37.228	-97.576	1.5	6.8	8.8	15.3
10/27/15 22:35	37.120	-97.619	1.7	3.8	3.5	17.9
10/28/15 1:38	37.084	-97.508	1.5	2.4	2.1	17.3
10/28/15 2:04	37.094	-97.561	1.4	2.3	1.7	17.0
10/28/15 3:12	37.143	-97.898	1.8	3.5	2.3	16.2
10/28/15 3:56	37.057	-97.916	1.6	3.6	3.1	17.6
10/28/15 4:44	37.058	-97.534	2.1	1.3	1.1	16.4
10/28/15 5:18	37.032	-97.925	1.7	5.8	5.2	17.9
10/28/15 5:28	37.035	-97.962	1.2	4.5	3.9	15.4
10/28/15 5:35	37.088	-97.977	1.5	4.0	3.4	17.3
10/28/15 6:09	37.572	-97.750	2.0	1.7	1.8	15.0
10/28/15 7:00	37.603	-97.702	1.2	4.4	5.0	13.4
10/28/15 10:21	37.650	-97.987	1.5	2.2	5.5	15.3
10/28/15 12:08	37.060	-97.534	1.4	1.8	1.3	17.0
10/28/15 12:20	37.345	-98.128	1.7	2.0	5.4	11.9
10/28/15 14:41	37.342	-98.080	1.9	2.5	3.4	16.6
10/28/15 16:46	37.343	-98.121	1.8	1.9	2.3	18.2
10/28/15 16:55	37.352	-98.146	1.7	1.8	1.5	17.9
10/28/15 17:48	37.012	-97.590	1.5	2.1	2.1	17.3
10/28/15 19:06	37.030	-98.837	1.8	2.8	1.7	14.2
10/28/15 21:29	37.226	-97.884	1.5	1.5	0.9	16.3
10/28/15 23:25	37.068	-97.708	1.3	2.9	1.8	16.7
10/29/15 0:00	37.120	-97.631	2.0	1.6	1.0	16.0
10/29/15 0:02	37.122	-97.621	1.1	1.0	0.8	16.2
10/29/15 1:03	37.572	-97.743	0.4	1.7	2.0	15.2
10/29/15 1:04	37.563	-97.749	0.4	1.6	1.7	15.2
10/29/15 2:02	37.210	-97.753	1.1	1.6	1.1	13.2
10/29/15 2:05	37.059	-97.951	1.8	2.8	1.5	18.2
10/29/15 3:33	37.195	-97.985	1.8	1.7	1.3	18.2
10/29/15 3:49	37.560	-97.747	0.8	1.0	1.0	15.6
10/29/15 4:14	37.349	-98.143	1.7	3.3	2.1	17.9
10/29/15 4:16	37.511	-97.791	1.0	2.3	2.5	16.0
10/29/15 6:40	37.195	-97.978	1.7	1.6	1.0	17.9
10/29/15 6:58	37.575	-97.741	1.8	1.4	1.6	18.2
10/29/15 7:03	37.094	-97.637	1.6	1.6	2.0	17.6
10/29/15 7:54	37.325	-97.871	2.1	1.1	1.0	17.4
10/29/15 8:01	37.332	-97.867	1.5	1.8	1.6	16.3
10/29/15 8:03	37.331	-97.868	1.5	1.7	1.8	16.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/29/15 8:20	37.330	-97.873	1.7	1.2	1.2	17.9
10/29/15 8:22	37.565	-97.745	0.7	3.1	3.0	15.5
10/29/15 8:48	37.558	-97.757	1.9	1.6	1.4	18.6
10/29/15 10:27	37.245	-97.576	1.3	1.3	1.4	13.7
10/29/15 11:01	37.573	-97.738	1.7	1.6	1.7	17.9
10/29/15 11:32	37.574	-97.740	0.5	1.5	1.4	15.3
10/29/15 11:35	37.064	-97.735	1.9	2.7	1.5	18.6
10/29/15 12:43	37.065	-97.529	1.6	1.1	1.0	16.6
10/29/15 12:45	37.059	-97.741	1.9	1.8	1.3	18.6
10/29/15 12:54	37.563	-97.749	1.1	0.8	0.9	16.2
10/29/15 13:13	37.565	-97.757	1.3	2.0	2.2	16.7
10/29/15 14:04	37.052	-97.732	1.8	2.6	1.6	18.2
10/29/15 14:14	37.561	-97.747	1.2	1.2	1.1	16.4
10/29/15 16:06	37.083	-97.512	1.9	2.1	1.6	16.6
10/29/15 16:13	37.353	-98.146	2.1	1.3	1.3	18.4
10/29/15 16:43	37.265	-98.084	1.5	1.3	2.6	16.3
10/29/15 17:11	37.069	-97.530	1.8	1.4	1.1	18.2
10/29/15 18:18	37.118	-98.019	2.1	1.5	1.1	19.4
10/29/15 18:37	37.075	-97.803	1.6	2.2	1.3	17.6
10/29/15 19:05	37.240	-97.566	0.6	1.7	2.4	11.4
10/29/15 19:41	37.161	-97.603	1.2	2.0	2.5	16.4
10/29/15 20:28	37.139	-97.611	1.3	1.2	1.0	16.7
10/29/15 21:26	37.132	-97.608	1.2	2.1	1.2	16.4
10/29/15 22:15	37.341	-98.074	1.6	1.4	2.0	17.6
10/29/15 22:17	37.069	-97.794	1.4	2.4	1.5	17.0
10/29/15 23:12	37.341	-98.067	1.5	1.5	2.5	16.3
10/30/15 0:26	37.113	-98.000	1.8	2.1	1.5	18.2
10/30/15 0:42	37.196	-97.845	1.4	2.1	1.4	15.0
10/30/15 0:52	37.576	-97.739	2.0	1.4	1.6	19.0
10/30/15 2:25	37.559	-97.747	1.6	1.7	1.4	17.6
10/30/15 2:32	37.559	-97.759	1.5	1.7	1.6	17.3
10/30/15 3:16	37.361	-97.794	2.2	1.2	1.2	18.8
10/30/15 4:02	37.559	-97.741	1.7	2.2	1.9	17.9
10/30/15 4:37	37.151	-97.642	2.7	2.0	1.3	17.3
10/30/15 4:53	37.120	-97.615	1.8	1.9	1.4	18.2
10/30/15 5:27	37.057	-97.971	1.7	3.7	2.3	17.9
10/30/15 6:09	37.078	-97.977	1.8	3.5	2.9	18.2
10/30/15 7:17	37.280	-98.876	1.2	4.7	2.6	6.4
10/30/15 7:40	37.268	-97.810	1.4	2.7	2.0	17.0
10/30/15 7:53	37.294	-98.881	1.8	3.6	3.3	10.2
10/30/15 7:59	37.563	-97.749	1.1	0.8	0.8	16.2
10/30/15 8:33	37.056	-97.957	1.2	5.3	4.0	14.4
10/30/15 8:36	37.555	-97.758	0.8	1.7	1.6	15.6
10/30/15 9:05	37.065	-98.888	1.7	6.7	7.1	13.9
10/30/15 9:14	37.042	-97.868	1.1	5.5	2.6	15.2
10/30/15 12:08	37.561	-97.738	1.3	1.6	1.7	16.7
10/30/15 12:09	37.317	-97.528	1.3	1.0	1.4	12.7
10/30/15 12:22	37.163	-97.621	2.1	3.0	1.6	19.4
10/30/15 12:43	37.131	-97.611	2.1	2.6	1.8	19.4
10/30/15 13:20	37.273	-97.973	1.5	1.0	1.0	17.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
10/30/15 17:16	37.100	-97.468	1.5	1.9	1.4	16.3
10/30/15 19:42	37.083	-97.513	1.4	2.5	2.1	16.0
10/30/15 19:43	37.054	-97.532	1.8	2.1	1.6	18.2
10/30/15 20:03	37.061	-97.538	2.4	1.9	1.4	20.8
10/30/15 21:08	37.112	-97.614	2.0	3.0	1.7	19.0
10/30/15 23:30	37.228	-97.989	1.6	2.1	2.1	17.6
10/30/15 23:53	37.174	-97.623	1.3	2.1	2.6	15.7
10/31/15 0:21	37.072	-97.795	1.9	2.2	1.4	16.6
10/31/15 1:16	37.557	-97.747	0.8	2.1	2.3	15.6
10/31/15 1:39	37.232	-97.992	1.8	2.8	2.4	18.2
10/31/15 3:29	37.638	-97.670	1.1	3.2	3.1	12.2
10/31/15 3:47	37.563	-97.750	1.2	1.1	1.1	16.4
10/31/15 4:17	37.047	-97.744	2.7	1.4	0.8	18.3
10/31/15 4:29	37.068	-97.521	1.1	2.3	1.9	16.2
10/31/15 4:44	37.186	-97.852	1.5	3.0	2.0	15.3
10/31/15 5:25	37.561	-97.750	1.5	1.1	1.1	17.3
10/31/15 5:28	37.566	-97.748	1.3	1.0	1.0	16.7
10/31/15 7:15	37.232	-97.912	1.7	1.9	1.5	17.9
10/31/15 9:43	37.558	-97.756	1.7	2.1	2.3	17.9
10/31/15 9:48	37.121	-97.621	2.0	1.4	1.1	19.0
10/31/15 9:50	37.082	-97.809	1.5	2.8	1.6	16.3
10/31/15 10:06	37.219	-97.992	2.0	1.8	1.5	19.0
10/31/15 13:42	37.001	-97.585	2.0	2.4	2.2	19.0
10/31/15 15:06	37.004	-97.595	2.3	2.0	1.2	20.3
10/31/15 16:23	37.015	-97.601	2.2	1.1	0.8	19.8
10/31/15 16:39	37.002	-97.591	1.5	1.2	1.0	17.3
10/31/15 16:48	37.068	-97.856	1.5	1.9	1.4	17.3
10/31/15 17:00	37.342	-98.112	1.4	1.4	3.3	13.0
10/31/15 17:14	37.002	-97.592	2.3	2.1	1.4	20.3
10/31/15 19:32	37.567	-97.744	2.0	1.4	1.3	17.0
10/31/15 21:47	37.254	-97.320	0.9	1.3	1.3	11.8
10/31/15 22:20	37.246	-97.980	0.3	1.6	1.3	11.1
10/31/15 23:55	37.082	-97.517	1.5	3.2	2.7	17.3
11/1/15 0:43	37.008	-97.581	1.4	2.2	2.1	17.0
11/1/15 1:08	37.362	-97.790	1.8	0.5	0.6	16.2
11/1/15 1:30	37.362	-97.798	2.1	0.5	0.7	17.4
11/1/15 1:51	37.006	-97.586	1.8	1.3	0.9	18.2
11/1/15 2:22	37.124	-97.617	2.1	1.1	0.9	19.4
11/1/15 3:31	37.083	-97.916	1.9	1.4	1.0	18.6
11/1/15 5:55	37.016	-97.591	1.9	2.2	1.4	18.6
11/1/15 6:49	37.080	-97.928	1.8	3.9	3.4	18.2
11/1/15 8:51	37.008	-97.585	1.8	2.4	1.5	18.2
11/1/15 8:52	37.561	-97.753	1.0	1.1	1.2	16.0
11/1/15 9:29	37.044	-98.834	1.7	5.0	3.7	14.9
11/1/15 9:54	37.146	-97.617	1.7	4.0	1.8	17.9
11/1/15 11:53	37.052	-97.938	2.1	3.4	2.1	19.4
11/1/15 12:47	37.231	-97.575	1.5	2.1	2.9	15.3
11/1/15 16:37	37.010	-97.605	1.6	2.2	2.3	17.6
11/1/15 18:44	37.564	-97.747	1.3	1.0	1.1	16.7
11/1/15 18:56	37.168	-97.899	1.5	1.5	1.0	16.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/2/15 2:05	37.076	-97.918	1.6	1.4	1.1	17.6
11/2/15 2:29	37.364	-97.793	1.3	1.0	1.3	13.7
11/2/15 3:05	37.073	-97.956	1.9	3.4	2.1	18.6
11/2/15 3:19	37.078	-97.920	2.0	1.9	1.5	19.0
11/2/15 3:25	37.061	-97.926	1.9	1.9	1.3	18.6
11/2/15 4:28	37.077	-97.921	1.9	1.5	1.0	18.6
11/2/15 4:50	37.077	-98.827	1.8	2.5	1.7	16.2
11/2/15 5:06	37.545	-97.862	1.8	2.8	2.0	16.2
11/2/15 5:15	37.067	-97.518	1.9	1.3	1.0	18.6
11/2/15 6:43	37.151	-97.440	1.3	6.3	6.0	14.7
11/2/15 7:26	37.057	-97.537	1.7	1.4	1.2	17.9
11/2/15 8:27	37.055	-97.536	1.5	2.9	2.5	17.3
11/2/15 8:45	37.068	-97.521	1.8	2.0	1.8	18.2
11/2/15 8:48	37.078	-97.527	1.2	2.7	2.6	16.4
11/2/15 8:55	37.060	-97.532	1.7	1.8	1.2	17.9
11/2/15 8:56	37.070	-97.535	1.7	1.7	1.5	17.9
11/2/15 9:04	37.068	-97.518	1.5	2.4	2.2	17.3
11/2/15 9:05	37.053	-97.542	0.7	2.4	2.3	15.5
11/2/15 9:18	37.173	-97.620	1.9	2.3	2.9	17.6
11/2/15 11:08	37.079	-97.522	1.5	1.6	1.3	17.3
11/2/15 11:08	37.076	-97.521	1.3	2.2	2.0	16.7
11/2/15 11:10	37.082	-97.526	1.9	2.7	2.1	18.6
11/2/15 11:16	37.058	-97.535	1.9	1.5	1.1	18.6
11/2/15 11:19	37.071	-97.514	2.0	2.0	1.4	19.0
11/2/15 11:39	37.108	-97.496	1.5	2.0	1.3	17.3
11/2/15 11:49	37.095	-97.504	0.8	5.8	4.6	15.6
11/2/15 11:58	37.069	-97.526	1.3	3.5	2.7	16.7
11/2/15 12:07	37.069	-97.526	2.2	0.9	0.7	19.8
11/2/15 13:32	37.038	-97.735	1.9	2.8	1.8	14.6
11/2/15 13:42	37.574	-97.739	0.8	1.7	1.5	13.6
11/2/15 14:04	37.361	-97.783	1.7	1.3	2.1	14.9
11/2/15 14:27	37.566	-97.844	1.3	7.1	7.2	15.7
11/2/15 14:35	37.230	-97.574	0.5	3.0	4.0	11.3
11/2/15 14:37	37.074	-97.503	1.2	7.3	6.3	16.4
11/2/15 15:00	37.073	-97.523	1.3	2.4	2.1	16.7
11/2/15 16:40	37.087	-97.514	1.9	2.3	2.1	18.6
11/2/15 18:38	37.068	-97.526	1.9	2.6	2.4	18.6
11/2/15 19:47	37.210	-98.019	1.5	1.6	1.0	14.3
11/2/15 21:01	37.006	-98.805	1.9	3.5	4.0	15.6
11/2/15 22:54	37.072	-97.516	2.0	2.0	1.8	19.0
11/2/15 23:53	37.059	-97.543	1.5	2.4	2.3	17.3
11/3/15 1:43	37.156	-97.613	1.3	1.6	1.9	12.7
11/3/15 3:58	37.070	-97.541	1.5	1.5	1.3	17.3
11/3/15 4:01	37.071	-97.521	0.9	2.0	1.8	15.8
11/3/15 4:16	37.062	-97.540	1.5	2.5	2.4	17.3
11/3/15 4:20	37.058	-97.537	1.0	2.7	2.5	16.0
11/3/15 4:20	37.068	-97.529	1.5	2.2	2.0	17.3
11/3/15 4:47	37.075	-97.527	1.8	1.7	1.5	18.2
11/3/15 5:02	37.063	-97.531	1.8	2.0	1.8	18.2
11/3/15 5:25	37.056	-97.546	2.0	2.0	1.8	19.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/3/15 5:43	37.036	-97.559	1.0	2.4	2.2	16.0
11/3/15 7:11	37.052	-97.544	1.3	2.9	2.5	16.7
11/3/15 8:24	37.063	-97.548	2.0	1.5	1.2	19.0
11/3/15 9:41	37.225	-97.981	2.0	1.6	1.2	16.0
11/3/15 10:15	37.063	-97.534	1.6	3.0	2.6	17.6
11/3/15 13:09	37.048	-97.369	1.7	3.3	1.2	8.9
11/3/15 13:18	37.051	-97.370	1.7	3.4	1.3	10.9
11/3/15 14:20	37.070	-97.523	1.2	1.9	1.7	16.4
11/3/15 17:09	37.420	-97.894	0.5	5.7	8.6	11.3
11/3/15 19:33	37.080	-97.517	1.8	1.9	1.4	18.2
11/3/15 20:28	37.567	-97.744	0.4	0.9	1.0	11.2
11/3/15 21:28	37.068	-97.528	1.9	1.4	1.0	18.6
11/3/15 22:03	37.089	-97.499	1.4	3.2	2.8	17.0
11/3/15 22:05	37.562	-97.842	1.4	2.4	2.8	14.0
11/4/15 2:38	37.069	-97.525	1.9	1.7	1.5	18.6
11/4/15 3:08	37.099	-98.019	1.7	2.4	2.4	15.9
11/4/15 4:10	37.199	-97.981	0.3	3.1	2.4	12.1
11/4/15 4:16	37.014	-98.808	2.0	3.2	1.9	15.0
11/4/15 8:55	37.123	-97.946	0.7	4.9	3.6	12.5
11/4/15 8:57	37.214	-97.999	1.4	4.7	3.1	14.0
11/4/15 11:32	37.557	-97.750	1.0	1.0	1.0	13.0
11/4/15 14:33	37.055	-97.539	1.0	2.9	2.8	13.0
11/4/15 14:48	37.246	-97.990	1.7	2.2	1.6	14.9
11/4/15 19:01	37.064	-97.922	1.5	4.1	3.1	15.3
11/4/15 19:45	37.057	-97.933	1.8	3.0	2.2	16.2
11/5/15 0:27	37.420	-98.160	1.1	4.7	4.7	13.2
11/5/15 3:06	37.924	-97.919	1.3	6.4	8.6	4.7
11/5/15 3:22	37.146	-97.699	1.4	2.2	2.8	14.0
11/5/15 3:34	37.029	-98.839	2.0	2.6	1.6	17.0
11/5/15 6:01	37.305	-98.381	1.5	2.5	1.6	5.3
11/5/15 7:43	37.006	-98.836	2.0	3.6	2.2	16.0
11/5/15 9:17	37.177	-97.785	1.1	2.4	2.0	14.2
11/5/15 10:10	37.132	-97.840	1.5	2.5	2.0	14.3
11/5/15 16:14	37.383	-97.835	1.2	3.2	3.8	12.4
11/5/15 19:56	37.376	-98.109	1.1	1.1	2.6	13.2
11/6/15 10:51	37.542	-97.762	1.0	0.9	0.9	12.0
11/6/15 16:10	37.155	-97.542	0.4	4.8	5.3	11.2
11/6/15 18:16	37.126	-97.569	1.6	4.0	3.1	16.6
11/6/15 18:27	37.015	-98.845	1.7	4.2	3.0	14.9
11/7/15 1:11	37.149	-97.562	1.3	2.0	2.4	15.7
11/7/15 1:25	37.037	-98.468	1.5	3.9	1.8	7.3
11/7/15 1:34	37.148	-97.565	1.5	2.2	1.8	16.3
11/7/15 3:18	37.236	-97.882	1.7	2.0	1.8	17.9
11/7/15 4:35	37.069	-97.539	2.1	2.0	1.5	16.4
11/7/15 5:05	37.174	-97.876	0.6	4.9	3.1	11.4
11/7/15 5:49	37.005	-98.819	2.0	1.2	0.7	16.0
11/7/15 6:55	37.404	-97.975	1.1	0.8	1.7	12.2
11/7/15 6:59	37.406	-97.996	2.4	1.1	1.6	16.8
11/7/15 7:08	37.165	-97.554	1.0	4.2	4.9	14.0
11/7/15 7:10	37.292	-97.927	1.3	1.7	2.0	15.7

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/7/15 7:24	37.391	-97.726	1.4	1.0	1.4	13.0
11/7/15 8:08	37.333	-97.596	1.7	0.7	0.9	16.9
11/7/15 10:41	37.033	-98.464	1.9	2.5	1.3	10.6
11/7/15 10:42	37.042	-98.453	1.5	5.0	3.0	11.3
11/7/15 11:38	37.218	-97.981	1.8	4.8	2.8	18.2
11/7/15 14:26	37.288	-97.927	1.6	2.1	1.9	17.6
11/7/15 21:14	37.229	-97.879	2.0	1.6	1.0	18.0
11/8/15 0:25	37.259	-97.585	1.9	1.7	1.6	16.6
11/8/15 1:29	37.252	-97.598	1.5	2.2	3.4	16.3
11/8/15 4:32	37.042	-97.544	1.1	5.9	3.3	12.2
11/8/15 6:55	37.248	-97.604	1.2	2.6	4.0	14.4
11/8/15 10:10	37.185	-98.002	1.1	5.0	2.1	12.2
11/8/15 22:20	37.178	-97.803	2.0	1.9	1.2	15.0
11/8/15 23:01	37.710	-97.939	1.3	9.2	5.0	6.7
11/9/15 2:43	37.572	-97.739	1.6	1.9	2.1	13.6
11/9/15 3:51	37.295	-97.279	1.3	4.1	4.7	8.7
11/9/15 10:39	37.076	-97.889	1.9	8.4	3.9	14.6
11/9/15 14:26	37.094	-97.617	1.8	8.0	9.4	18.2
11/9/15 16:17	37.145	-97.557	1.9	3.0	2.5	18.6
11/9/15 16:26	37.205	-97.529	1.8	7.2	7.4	18.2
11/9/15 17:11	37.151	-97.555	1.5	2.3	2.7	17.3
11/9/15 17:14	37.133	-97.584	1.9	2.3	1.8	18.6
11/9/15 17:25	37.147	-97.562	1.7	2.3	2.7	17.9
11/9/15 19:02	37.148	-97.565	1.7	2.2	2.6	17.9
11/9/15 21:51	37.300	-97.635	1.0	1.7	3.4	13.0
11/9/15 22:42	37.117	-97.609	3.2	2.4	1.6	20.2
11/9/15 23:35	37.144	-97.600	2.0	1.8	1.2	19.0
11/9/15 23:47	37.120	-97.621	1.0	2.2	2.6	14.0
11/10/15 0:10	37.049	-97.544	2.3	2.8	2.1	20.3
11/10/15 0:14	37.075	-97.533	1.7	4.2	3.9	17.9
11/10/15 0:31	37.063	-97.533	2.1	1.8	1.3	19.4
11/10/15 1:17	37.229	-97.985	1.4	1.7	1.4	14.0
11/10/15 1:49	37.070	-97.525	1.9	3.4	2.9	18.6
11/10/15 5:14	37.069	-97.534	0.7	3.4	2.8	14.5
11/10/15 6:19	37.059	-97.529	1.2	3.6	3.1	15.4
11/10/15 6:22	37.576	-97.737	1.8	1.3	1.3	14.2
11/10/15 9:24	37.236	-97.577	0.7	1.9	2.7	14.5
11/10/15 10:30	37.060	-98.778	1.1	7.6	2.4	12.2
11/10/15 10:46	37.061	-97.532	2.4	1.7	1.3	20.8
11/10/15 15:22	37.115	-97.588	1.9	6.4	7.6	18.6
11/10/15 15:44	37.351	-97.935	1.8	0.7	0.9	14.2
11/10/15 17:35	37.045	-97.816	1.8	2.2	1.3	17.2
11/10/15 18:22	37.228	-97.999	1.7	2.7	2.6	15.9
11/10/15 22:58	37.333	-97.593	1.2	1.2	2.1	15.4
11/10/15 23:12	37.052	-97.806	1.1	2.4	1.6	12.2
11/10/15 23:21	37.078	-97.788	1.9	3.6	2.6	17.6
11/10/15 23:44	37.294	-97.644	1.5	1.5	3.0	17.3
11/11/15 0:07	37.301	-97.645	1.2	2.2	4.3	16.4
11/11/15 0:20	37.147	-97.720	1.6	7.2	3.3	14.6
11/11/15 0:33	37.067	-97.799	1.9	1.7	1.2	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/11/15 0:44	37.311	-97.606	1.8	0.7	0.9	15.2
11/11/15 1:19	37.008	-97.603	1.8	8.4	4.1	14.2
11/11/15 2:34	37.070	-97.560	1.2	2.1	2.3	14.4
11/11/15 3:40	37.319	-97.578	1.1	0.9	2.7	16.2
11/11/15 4:17	37.123	-97.614	2.3	2.1	1.2	17.3
11/11/15 4:20	37.082	-97.804	2.1	2.4	1.8	17.4
11/11/15 4:30	37.091	-98.762	1.8	6.3	2.8	14.2
11/11/15 7:25	37.226	-97.998	1.3	1.3	0.9	14.7
11/11/15 8:46	37.037	-97.953	1.5	4.4	4.8	14.3
11/11/15 10:46	37.562	-97.755	1.9	1.2	1.1	16.6
11/11/15 11:36	37.148	-97.879	2.5	1.6	1.1	16.3
11/11/15 12:18	37.566	-97.746	1.1	0.8	0.8	16.2
11/11/15 12:32	37.172	-97.747	1.6	3.6	2.2	14.6
11/11/15 13:03	37.566	-97.745	1.3	1.3	1.4	15.7
11/11/15 13:16	37.571	-97.759	2.3	1.8	1.9	17.3
11/11/15 14:41	37.099	-97.933	1.8	2.1	1.3	16.2
11/11/15 15:39	37.351	-98.153	1.4	1.2	3.6	13.0
11/11/15 16:42	37.594	-97.720	0.6	2.2	2.6	14.4
11/12/15 0:58	37.185	-97.988	1.7	3.1	2.3	15.9
11/12/15 2:53	37.410	-98.061	1.4	0.7	1.8	13.0
11/12/15 3:17	37.325	-98.855	1.2	5.5	3.4	12.4
11/12/15 5:18	37.565	-97.748	1.3	1.0	1.1	16.7
11/12/15 5:22	37.564	-97.748	1.5	0.9	0.9	17.3
11/12/15 5:54	37.565	-97.747	0.4	1.8	2.0	13.2
11/12/15 5:55	37.565	-97.745	0.7	2.8	3.1	15.5
11/12/15 6:43	37.109	-97.667	1.5	3.4	4.2	14.3
11/12/15 7:47	37.197	-97.553	1.1	6.2	6.7	14.2
11/12/15 10:41	37.166	-97.986	1.6	2.3	1.6	16.6
11/12/15 10:55	37.243	-97.575	1.3	1.7	2.6	13.7
11/12/15 11:19	37.139	-97.579	1.5	2.6	3.2	16.3
11/12/15 11:42	37.064	-97.533	2.0	1.9	1.5	17.0
11/12/15 13:30	37.122	-97.496	2.1	4.2	3.1	16.4
11/12/15 14:49	37.568	-97.745	1.0	1.0	1.0	16.0
11/12/15 22:18	37.103	-98.301	1.8	3.0	1.3	10.2
11/13/15 3:13	37.373	-97.922	1.8	3.8	2.1	15.2
11/13/15 4:10	37.563	-97.751	1.9	1.5	1.6	15.6
11/13/15 4:16	37.230	-97.983	1.5	2.6	2.0	14.3
11/13/15 4:23	37.023	-98.020	1.0	3.1	2.9	12.0
11/13/15 4:24	37.562	-97.748	1.0	1.5	1.6	16.0
11/13/15 5:02	37.171	-97.807	0.7	1.4	0.7	13.5
11/13/15 6:36	37.009	-97.913	2.0	3.8	2.0	17.0
11/13/15 7:05	37.988	-96.673	1.8	1.9	2.7	6.2
11/13/15 9:04	37.348	-97.987	1.4	2.3	3.1	14.0
11/13/15 9:56	37.317	-98.185	1.9	2.9	1.7	14.6
11/13/15 10:35	37.269	-97.628	1.9	1.0	1.0	14.6
11/13/15 11:33	37.170	-97.875	0.9	1.3	0.7	12.8
11/13/15 13:03	37.352	-98.949	1.1	2.6	5.7	10.2
11/13/15 14:28	37.138	-97.607	1.7	1.6	1.9	17.9
11/13/15 14:53	37.210	-97.746	1.2	1.4	1.0	13.4
11/13/15 15:01	37.144	-97.562	1.6	1.0	0.9	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/13/15 15:14	37.113	-97.961	1.8	1.4	1.1	16.2
11/13/15 15:16	37.021	-97.925	1.8	2.1	1.2	16.2
11/13/15 16:06	37.086	-97.719	1.7	4.1	1.5	13.9
11/13/15 19:32	37.150	-97.566	1.7	1.0	0.9	17.9
11/13/15 22:49	37.106	-97.580	1.7	6.1	6.9	17.9
11/14/15 3:47	37.024	-97.921	2.3	4.3	2.8	20.3
11/14/15 7:06	37.289	-98.831	1.6	4.6	3.4	14.6
11/14/15 7:24	37.164	-98.023	1.7	1.0	0.8	14.9
11/14/15 9:39	37.150	-97.868	1.5	1.4	1.1	17.3
11/14/15 9:56	37.148	-97.558	1.9	2.3	1.7	18.6
11/14/15 12:57	37.147	-97.563	1.8	2.2	2.1	18.2
11/14/15 14:23	37.163	-97.864	1.9	2.0	1.7	16.6
11/14/15 19:26	37.142	-97.658	1.8	1.6	1.6	18.2
11/15/15 0:44	37.082	-97.935	2.1	2.4	1.8	18.4
11/15/15 2:36	37.167	-97.868	1.4	3.3	1.8	16.0
11/15/15 2:54	37.163	-97.879	1.3	1.7	0.9	14.7
11/15/15 2:55	37.060	-97.527	1.5	1.1	0.8	17.3
11/15/15 3:04	38.572	-97.510	2.2	3.9	5.4	7.8
11/15/15 3:10	37.024	-97.951	2.0	2.3	1.3	18.0
11/15/15 3:47	37.087	-97.948	1.7	6.0	5.5	15.9
11/15/15 4:27	37.298	-98.913	1.3	3.4	5.2	13.7
11/15/15 6:55	37.077	-98.286	1.9	2.6	1.6	12.6
11/15/15 7:32	37.213	-97.537	1.5	3.2	3.4	16.3
11/15/15 7:37	37.136	-97.665	1.8	1.1	0.7	18.2
11/15/15 7:40	37.060	-97.537	1.8	1.6	1.2	18.2
11/15/15 8:29	37.140	-97.663	1.7	3.0	2.1	17.9
11/15/15 8:41	37.312	-97.517	2.2	0.8	1.0	16.8
11/15/15 9:22	37.310	-97.531	0.6	2.0	3.3	11.4
11/15/15 9:55	37.055	-97.525	1.6	2.6	2.4	17.6
11/15/15 10:01	37.118	-97.471	1.4	4.8	3.2	17.0
11/15/15 11:19	37.129	-97.662	1.8	2.1	1.4	18.2
11/15/15 11:52	37.316	-97.513	1.9	0.7	0.9	15.6
11/15/15 14:25	37.396	-97.718	1.7	0.8	1.0	13.9
11/15/15 16:48	39.623	-98.697	2.5	6.8	4.8	9.3
11/15/15 17:33	37.063	-97.541	1.1	4.0	3.2	16.2
11/15/15 20:01	37.142	-97.563	1.6	1.3	1.1	17.6
11/15/15 20:25	37.083	-97.627	1.6	4.1	2.9	17.6
11/16/15 1:22	37.150	-97.635	1.8	1.3	0.9	18.2
11/16/15 3:23	37.056	-97.659	1.5	1.5	1.0	17.3
11/16/15 9:32	37.160	-97.823	1.6	1.7	1.5	16.6
11/16/15 11:20	37.293	-97.911	1.1	3.3	2.8	12.2
11/16/15 15:26	37.022	-97.545	1.6	2.5	1.9	14.6
11/16/15 15:36	37.064	-97.914	1.7	2.3	1.6	13.9
11/16/15 16:00	37.158	-97.834	2.3	1.4	0.9	18.3
11/16/15 16:27	37.175	-97.839	1.8	2.3	1.7	18.2
11/16/15 16:49	37.058	-97.926	1.1	1.9	1.3	12.2
11/16/15 18:08	37.180	-97.829	1.5	5.2	3.2	17.3
11/16/15 19:33	37.156	-97.826	1.9	1.5	1.1	18.6
11/16/15 19:44	37.502	-97.860	1.3	1.6	1.5	12.7
11/17/15 0:14	37.818	-98.074	1.4	8.4	8.4	5.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/17/15 4:01	37.685	-97.557	0.2	8.6	6.8	3.0
11/17/15 8:11	37.568	-97.745	0.9	1.5	1.6	11.8
11/17/15 10:15	37.432	-98.689	1.5	1.6	1.8	9.3
11/17/15 10:18	37.449	-98.695	1.7	1.8	2.0	11.9
11/17/15 10:33	37.440	-98.698	1.6	0.9	1.5	13.6
11/17/15 10:41	37.449	-98.713	1.5	2.4	5.7	15.3
11/17/15 11:27	37.441	-98.691	1.6	1.4	1.6	17.6
11/17/15 12:04	37.436	-98.690	1.4	1.0	1.1	17.0
11/17/15 12:52	37.405	-98.542	0.9	3.8	4.6	3.8
11/17/15 13:05	37.439	-98.688	1.6	0.8	0.8	17.6
11/17/15 13:29	37.441	-98.695	1.3	0.7	0.8	16.7
11/17/15 13:38	37.444	-98.709	1.4	1.5	1.6	17.0
11/17/15 13:43	37.439	-98.678	1.6	1.8	2.0	17.6
11/17/15 15:15	37.571	-97.740	1.8	1.2	1.2	14.2
11/17/15 16:27	37.159	-97.851	1.0	2.4	1.5	15.0
11/17/15 17:30	37.255	-98.125	1.7	1.3	4.2	13.9
11/17/15 23:37	37.058	-97.913	1.8	2.2	1.5	16.2
11/18/15 0:05	37.067	-97.924	2.4	1.8	1.2	16.8
11/18/15 0:09	37.054	-97.909	1.4	3.4	2.1	15.0
11/18/15 0:45	37.096	-97.500	1.4	2.3	2.0	15.0
11/18/15 2:27	37.356	-98.179	1.7	1.4	1.4	13.9
11/18/15 5:17	37.317	-97.532	1.1	2.7	3.6	13.2
11/18/15 5:50	37.139	-97.658	1.6	1.4	1.8	14.6
11/18/15 8:58	37.143	-97.315	0.9	2.3	1.3	7.8
11/18/15 9:32	37.565	-97.747	1.1	0.8	0.9	13.2
11/18/15 9:47	37.072	-97.523	1.6	1.1	0.9	16.6
11/18/15 10:44	37.094	-97.572	1.8	2.2	1.6	18.2
11/18/15 11:45	37.158	-97.825	2.3	1.5	1.0	16.3
11/18/15 12:51	37.109	-98.302	1.7	2.4	1.2	10.9
11/18/15 12:51	37.282	-97.620	1.4	1.5	1.7	14.0
11/18/15 12:55	37.089	-98.304	2.1	2.8	1.7	14.4
11/18/15 13:48	37.143	-97.831	0.9	2.5	0.8	15.8
11/18/15 13:48	37.158	-97.833	1.3	1.7	1.2	16.7
11/18/15 14:25	37.054	-97.931	1.5	1.9	1.8	15.3
11/18/15 19:57	37.441	-98.686	1.8	0.8	0.8	14.2
11/18/15 20:21	37.154	-97.868	1.3	1.4	1.0	16.7
11/19/15 2:11	37.352	-97.938	0.6	0.9	1.3	11.4
11/19/15 4:21	37.597	-97.761	1.2	1.4	1.4	13.4
11/19/15 4:41	37.172	-97.879	1.0	2.2	1.1	16.0
11/19/15 4:43	37.159	-97.875	1.4	1.7	0.9	17.0
11/19/15 5:12	37.000	-97.608	1.4	2.2	2.3	13.0
11/19/15 5:14	37.618	-97.745	0.5	1.3	1.5	11.3
11/19/15 5:44	37.064	-98.854	1.8	1.5	1.1	14.2
11/19/15 6:29	37.480	-97.841	0.4	2.0	2.6	11.2
11/19/15 7:06	37.132	-97.593	2.0	1.7	1.3	18.0
11/19/15 16:46	37.416	-98.911	1.1	1.7	3.3	9.2
11/19/15 16:49	37.248	-98.163	1.5	1.6	1.8	15.3
11/19/15 20:57	37.142	-97.559	1.8	2.0	1.3	15.2
11/19/15 21:45	37.252	-98.175	1.8	1.8	1.3	18.2
11/20/15 1:29	37.252	-98.195	1.9	2.1	1.4	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/20/15 4:07	37.258	-98.139	1.7	2.6	1.7	17.9
11/20/15 4:38	37.054	-97.451	1.2	1.4	0.7	12.4
11/20/15 4:46	37.513	-97.839	1.7	3.0	1.7	13.9
11/20/15 6:49	37.315	-98.049	1.4	1.8	1.9	14.0
11/20/15 7:43	37.434	-98.902	1.5	1.9	2.3	10.3
11/20/15 12:32	37.272	-97.854	1.8	2.1	1.9	15.2
11/20/15 13:52	37.322	-98.130	1.6	2.2	1.8	17.6
11/20/15 14:15	37.760	-98.299	1.3	6.9	8.0	4.7
11/20/15 17:46	37.256	-98.758	1.9	3.3	1.3	8.6
11/21/15 0:08	37.066	-97.930	2.1	2.9	2.0	16.4
11/21/15 0:25	37.150	-97.867	0.7	2.3	1.5	11.5
11/21/15 2:10	37.251	-97.869	1.4	2.0	2.9	16.0
11/21/15 2:45	37.023	-97.940	1.9	3.7	2.7	16.6
11/21/15 6:17	37.173	-97.823	1.6	1.3	1.1	16.6
11/21/15 8:05	37.306	-98.903	1.0	2.3	2.0	12.0
11/21/15 18:19	37.108	-97.928	1.7	2.0	1.5	17.9
11/21/15 21:17	37.180	-97.892	1.4	2.6	2.1	17.0
11/21/15 21:29	37.124	-98.031	1.7	6.2	7.0	17.9
11/21/15 22:07	37.115	-98.070	2.2	2.5	2.5	17.8
11/22/15 2:37	37.162	-97.844	2.0	2.6	1.7	18.0
11/22/15 3:10	37.072	-97.936	1.8	2.2	1.4	18.2
11/22/15 4:28	37.080	-97.920	1.8	4.2	3.1	18.2
11/22/15 6:19	37.080	-97.509	1.7	6.5	3.7	14.9
11/22/15 9:26	37.101	-97.970	1.4	6.1	4.7	17.0
11/22/15 9:32	37.132	-97.573	1.8	1.4	0.9	15.2
11/22/15 12:07	37.204	-97.992	1.5	2.1	1.4	17.3
11/22/15 13:17	37.167	-98.030	1.3	5.7	4.2	16.7
11/22/15 13:46	37.034	-97.930	2.0	2.3	1.4	18.0
11/22/15 15:15	37.224	-98.048	0.8	1.5	1.9	12.6
11/22/15 15:37	37.157	-97.993	2.3	3.5	2.8	18.3
11/22/15 17:56	37.013	-98.812	2.0	2.2	1.6	15.0
11/22/15 19:58	37.142	-97.871	1.5	1.6	1.3	16.3
11/22/15 20:45	37.164	-97.997	2.0	2.0	1.2	19.0
11/22/15 23:00	37.212	-97.996	1.9	1.2	0.6	17.6
11/23/15 1:20	37.599	-97.759	1.1	1.1	1.2	12.2
11/23/15 3:19	37.514	-99.235	2.0	1.4	2.1	8.0
11/23/15 3:22	37.509	-99.221	1.9	2.5	3.1	9.6
11/23/15 11:26	37.054	-97.569	2.2	3.6	2.4	16.8
11/23/15 16:32	37.593	-97.766	0.3	1.5	1.5	11.1
11/23/15 18:56	37.098	-97.615	2.0	3.4	2.5	16.0
11/24/15 1:25	37.553	-97.911	0.7	4.1	3.4	11.5
11/24/15 6:39	37.329	-97.767	2.2	1.1	1.6	15.8
11/24/15 7:05	37.184	-97.984	1.7	2.5	1.6	14.9
11/24/15 11:35	37.157	-97.791	2.2	1.8	1.4	16.8
11/25/15 1:03	37.172	-97.809	2.2	2.0	1.4	18.8
11/25/15 2:42	37.165	-97.882	1.7	2.1	1.7	17.9
11/25/15 10:00	37.109	-98.019	1.6	2.1	2.3	13.6
11/25/15 14:42	37.345	-98.131	2.2	2.9	2.9	14.8
11/25/15 18:34	37.176	-97.830	2.0	2.9	2.2	19.0
11/25/15 20:21	37.193	-97.840	1.9	3.3	2.5	18.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/26/15 2:32	37.155	-97.781	1.4	3.7	2.6	15.0
11/26/15 2:57	37.180	-97.639	1.8	2.8	2.4	14.2
11/26/15 3:13	37.551	-97.888	0.8	5.7	4.2	13.6
11/26/15 3:48	37.579	-97.900	0.6	1.7	2.5	12.4
11/26/15 9:19	37.490	-97.829	1.2	1.8	2.2	16.4
11/26/15 9:46	37.167	-97.807	2.0	1.9	1.4	17.0
11/26/15 12:07	37.116	-98.919	2.0	1.3	1.0	13.0
11/26/15 13:28	37.559	-97.753	1.8	1.5	1.2	18.2
11/26/15 13:29	37.521	-97.773	0.7	1.1	1.1	15.5
11/26/15 14:57	37.465	-97.807	0.8	2.1	2.7	14.6
11/26/15 15:52	37.546	-97.852	1.4	3.0	2.4	17.0
11/26/15 22:55	37.044	-97.596	1.9	3.4	1.8	15.6
11/27/15 0:14	37.539	-97.747	0.6	3.2	3.1	15.4
11/27/15 4:14	37.550	-97.758	1.8	1.8	1.4	18.2
11/27/15 6:18	37.566	-97.747	1.1	0.9	1.0	16.2
11/27/15 6:47	37.560	-97.752	1.4	4.9	4.6	17.0
11/27/15 7:01	37.564	-97.752	1.4	2.8	2.7	17.0
11/27/15 7:07	37.586	-97.731	2.0	2.1	2.4	18.0
11/27/15 8:23	37.570	-97.740	1.9	1.4	1.7	18.6
11/27/15 8:26	37.574	-97.741	1.9	1.5	1.5	18.6
11/27/15 9:06	37.541	-97.766	0.9	0.9	0.9	15.8
11/27/15 9:40	37.545	-97.756	1.7	2.1	2.1	17.9
11/27/15 12:31	37.557	-97.751	0.7	0.8	0.8	15.5
11/27/15 12:47	37.360	-97.701	0.6	5.5	7.0	11.4
11/27/15 12:52	37.432	-98.687	1.5	0.8	1.0	13.3
11/27/15 13:21	37.563	-97.745	0.4	1.0	1.0	15.2
11/27/15 14:09	37.561	-97.743	1.5	1.3	1.3	17.3
11/27/15 14:51	37.049	-97.555	1.6	3.3	1.9	17.6
11/27/15 15:49	37.226	-97.952	1.5	3.4	2.6	15.3
11/27/15 15:58	37.059	-97.907	1.3	2.0	1.4	12.7
11/27/15 22:04	37.558	-97.746	0.8	1.2	1.2	15.6
11/28/15 0:45	37.424	-98.797	1.4	2.1	2.6	14.0
11/28/15 1:22	37.302	-97.993	1.4	1.7	2.1	15.0
11/28/15 1:49	37.187	-97.985	1.3	2.0	1.7	16.7
11/28/15 4:06	37.451	-97.767	0.5	6.1	7.1	14.3
11/28/15 5:38	37.108	-98.029	1.2	2.1	2.5	13.4
11/28/15 6:33	37.072	-97.794	1.9	1.8	1.4	14.6
11/28/15 7:32	37.240	-97.567	1.8	0.9	0.7	14.2
11/28/15 9:07	37.078	-97.517	1.6	3.3	2.6	17.6
11/28/15 11:20	37.343	-98.101	1.3	0.7	2.4	12.7
11/28/15 12:26	37.568	-97.753	2.3	2.0	2.0	15.3
11/28/15 12:27	37.560	-97.748	1.3	0.8	0.9	16.7
11/28/15 12:39	37.469	-97.799	0.0	3.1	3.8	13.0
11/28/15 13:17	37.567	-97.740	1.4	1.3	1.2	17.0
11/28/15 13:20	37.513	-97.781	0.8	2.0	2.1	15.6
11/28/15 13:25	37.566	-97.746	1.6	1.0	1.0	17.6
11/28/15 14:00	37.072	-97.527	1.9	2.2	1.4	18.6
11/28/15 14:11	37.054	-97.530	1.2	2.7	1.5	14.4
11/28/15 14:12	37.064	-97.527	1.9	1.7	1.1	18.6
11/28/15 14:20	37.018	-97.591	2.0	1.7	1.1	19.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
11/28/15 14:48	37.429	-98.815	1.4	0.9	1.2	17.0
11/28/15 15:53	37.324	-97.776	1.5	0.8	0.8	13.3
11/28/15 18:06	37.201	-97.977	2.4	1.9	1.4	16.8
11/28/15 18:20	37.211	-97.962	1.4	1.5	0.9	17.0
11/28/15 19:02	37.206	-97.964	0.9	1.3	0.7	15.8
11/28/15 20:28	37.229	-97.873	2.0	1.1	1.0	19.0
11/28/15 21:55	37.021	-97.592	2.1	1.9	1.3	19.4
11/28/15 22:22	37.223	-97.961	1.1	1.3	0.8	16.2
11/28/15 22:37	37.149	-97.874	1.7	5.1	3.2	17.9
11/28/15 23:57	37.206	-97.959	1.6	1.6	0.9	17.6
11/29/15 0:21	37.449	-97.877	1.5	4.0	5.8	13.3
11/29/15 1:13	37.422	-98.806	1.5	2.9	3.5	16.3
11/29/15 3:43	37.433	-97.820	0.3	3.1	4.2	14.1
11/29/15 4:40	37.459	-98.832	1.7	3.0	2.2	16.9
11/29/15 6:24	37.557	-97.751	1.2	1.1	0.9	16.4
11/29/15 6:36	37.196	-97.962	1.6	1.3	1.0	17.6
11/29/15 7:29	37.195	-97.965	1.5	3.9	2.4	17.3
11/29/15 7:58	37.432	-98.808	1.3	2.2	2.7	15.7
11/29/15 9:42	37.565	-97.742	1.2	1.4	1.4	16.4
11/29/15 9:45	37.568	-97.745	1.4	2.1	1.4	17.0
11/29/15 10:55	37.127	-97.832	1.7	2.3	1.7	15.9
11/29/15 12:23	37.193	-97.951	1.5	1.6	0.9	17.3
11/29/15 12:35	37.214	-97.964	0.7	1.5	1.0	13.5
11/29/15 12:39	37.199	-97.975	2.4	2.1	1.5	19.8
11/29/15 15:08	37.024	-97.582	2.2	3.9	2.6	16.8
11/29/15 16:18	37.158	-97.856	1.1	2.0	3.0	14.2
11/30/15 0:36	37.248	-97.578	0.6	2.1	4.0	11.4
11/30/15 0:56	37.213	-97.965	1.6	1.2	0.7	17.6
11/30/15 3:04	37.061	-97.718	1.4	2.6	1.4	13.0
11/30/15 3:54	37.155	-97.869	1.6	1.5	0.9	17.6
11/30/15 6:48	37.076	-98.027	2.0	2.3	1.6	16.0
11/30/15 7:18	37.333	-98.112	1.7	1.1	2.9	13.9
11/30/15 7:34	37.257	-98.026	1.5	4.4	4.0	16.3
11/30/15 8:55	37.078	-98.030	1.6	2.9	2.5	14.6
11/30/15 11:10	37.198	-97.972	2.0	1.8	1.3	19.0
11/30/15 12:44	37.317	-98.851	1.8	2.3	2.3	14.2
11/30/15 13:09	37.268	-97.988	1.9	3.5	3.1	17.6
11/30/15 23:40	37.043	-98.869	1.7	2.3	1.6	13.9
12/1/15 1:07	37.027	-98.449	2.2	3.3	1.9	13.8
12/1/15 2:46	37.276	-98.103	1.6	1.7	1.0	13.6
12/1/15 3:05	37.170	-98.037	1.8	3.5	2.0	16.2
12/1/15 3:39	37.122	-98.013	1.7	2.5	1.7	16.9
12/1/15 5:18	37.229	-97.877	1.9	1.7	1.3	18.6
12/1/15 6:44	37.422	-98.682	2.0	1.9	1.8	15.0
12/1/15 7:24	37.058	-97.728	2.2	2.1	1.5	14.8
12/1/15 8:22	37.130	-98.021	1.9	3.5	1.8	17.6
12/1/15 10:08	37.462	-98.750	1.5	1.2	1.6	14.3
12/1/15 14:29	37.231	-97.877	2.2	2.4	1.9	19.8
12/1/15 14:32	37.230	-97.858	1.8	2.1	1.7	18.2
12/1/15 14:35	37.227	-97.872	1.8	2.2	1.7	18.2

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/1/15 15:02	37.240	-97.846	1.3	1.7	1.5	16.7
12/1/15 15:12	37.216	-97.865	1.6	1.9	1.3	17.6
12/1/15 17:21	37.088	-97.970	1.7	3.1	1.6	15.9
12/1/15 18:33	37.192	-97.871	1.8	2.7	1.9	18.2
12/1/15 18:54	37.218	-97.854	1.8	2.2	1.7	18.2
12/2/15 1:29	37.229	-97.874	0.6	1.0	0.9	12.4
12/2/15 3:14	37.018	-98.457	1.8	3.6	2.1	14.2
12/2/15 3:56	37.572	-97.742	1.8	1.6	1.7	14.2
12/2/15 8:02	37.226	-97.871	1.1	1.0	1.0	15.2
12/2/15 10:14	37.249	-97.605	1.1	0.6	0.8	13.2
12/2/15 10:58	37.305	-98.841	0.0	1.8	1.6	11.0
12/2/15 14:52	37.095	-97.808	1.4	3.1	1.5	15.0
12/2/15 16:21	37.047	-97.811	1.8	2.6	1.8	16.2
12/2/15 16:42	37.240	-97.998	1.5	8.2	4.6	15.3
12/2/15 18:46	37.208	-97.872	1.0	3.1	3.1	16.0
12/2/15 19:08	37.181	-97.970	1.6	2.5	1.5	15.6
12/2/15 20:05	37.184	-97.975	1.7	2.6	1.8	16.9
12/3/15 0:50	37.321	-98.038	1.3	2.0	2.3	12.7
12/3/15 4:10	37.049	-97.814	1.7	3.5	2.1	17.9
12/3/15 8:21	37.103	-97.630	1.0	1.8	1.2	13.0
12/3/15 9:11	37.312	-97.531	0.9	1.3	2.1	12.8
12/3/15 9:15	37.230	-97.871	1.8	1.0	0.9	15.2
12/3/15 10:17	37.045	-97.933	1.7	2.9	2.5	13.9
12/3/15 11:47	37.128	-97.650	1.2	2.8	2.1	13.4
12/3/15 14:03	37.226	-97.868	1.5	1.6	1.3	17.3
12/3/15 14:58	37.234	-97.882	1.2	1.3	1.0	15.4
12/3/15 18:48	37.376	-97.770	1.2	2.4	3.3	13.4
12/3/15 18:49	37.040	-97.777	1.3	1.5	1.0	14.7
12/3/15 19:11	37.195	-97.985	1.5	2.7	1.7	14.3
12/3/15 19:41	37.376	-97.755	1.7	0.5	0.8	14.9
12/3/15 21:10	37.226	-97.867	1.2	0.9	0.7	14.4
12/3/15 23:56	37.086	-97.812	1.2	2.5	2.7	14.4
12/4/15 0:23	37.617	-98.000	1.7	0.9	0.8	5.9
12/4/15 5:05	37.274	-97.561	1.8	1.4	1.4	14.2
12/4/15 6:10	37.494	-97.830	0.2	4.2	4.1	11.0
12/4/15 7:25	37.554	-97.766	2.0	2.3	1.9	14.0
12/4/15 8:50	37.195	-97.254	2.2	5.9	6.6	9.8
12/4/15 9:28	37.353	-98.145	1.9	2.1	1.5	14.6
12/4/15 10:48	37.193	-97.261	1.7	5.2	5.6	9.9
12/4/15 12:48	37.083	-98.869	1.3	1.5	1.2	12.7
12/5/15 18:55	37.018	-97.861	1.9	1.5	1.2	15.6
12/5/15 20:53	37.136	-97.608	2.1	2.7	2.8	15.4
12/5/15 21:07	37.019	-97.883	2.3	1.7	1.3	17.3
12/6/15 2:57	37.406	-98.889	2.1	3.3	5.3	15.4
12/6/15 3:53	37.430	-98.673	1.5	1.1	1.2	13.3
12/6/15 5:24	37.193	-97.255	1.2	1.2	1.0	10.4
12/6/15 6:30	37.157	-97.873	1.6	1.2	1.0	13.6
12/6/15 7:37	37.207	-97.254	2.1	1.9	2.1	15.4
12/6/15 7:50	37.204	-97.264	0.5	1.4	1.2	11.3
12/6/15 8:17	37.074	-97.555	1.4	3.2	1.8	17.0

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/6/15 8:50	37.017	-98.761	1.5	2.2	1.1	11.3
12/6/15 8:52	37.230	-97.783	1.6	1.1	1.2	14.6
12/6/15 12:36	37.103	-97.543	1.1	3.1	1.2	14.2
12/6/15 13:46	37.107	-97.544	1.7	1.4	0.8	16.9
12/6/15 14:24	37.355	-98.747	0.7	0.8	0.9	9.5
12/6/15 16:10	37.104	-98.015	2.0	2.1	2.3	17.0
12/6/15 19:13	37.103	-97.551	0.9	1.4	0.9	13.8
12/6/15 22:24	37.233	-97.787	2.0	0.8	0.8	16.0
12/7/15 0:43	37.118	-97.620	2.4	3.6	1.4	16.8
12/7/15 0:51	37.115	-97.623	2.3	2.7	1.1	17.3
12/7/15 1:56	37.240	-98.749	1.8	1.2	0.9	10.2
12/7/15 3:33	37.004	-97.615	2.3	1.2	0.9	17.3
12/7/15 3:38	37.122	-97.619	1.8	3.4	1.3	18.2
12/7/15 8:06	37.075	-98.029	1.6	4.8	4.2	14.6
12/7/15 9:47	37.232	-98.050	1.2	1.2	1.2	13.4
12/7/15 14:35	37.005	-97.619	2.4	1.3	1.0	17.8
12/7/15 14:41	37.002	-97.615	1.4	2.2	2.1	14.0
12/7/15 15:26	37.075	-97.915	1.7	5.0	3.4	14.9
12/7/15 20:18	37.127	-97.623	1.3	5.0	2.3	13.7
12/7/15 22:29	37.259	-98.014	1.7	1.0	1.3	15.9
12/7/15 23:54	37.215	-97.846	1.7	0.8	0.8	15.9
12/8/15 2:24	37.212	-97.797	1.4	2.6	4.2	15.0
12/8/15 4:45	37.346	-97.582	1.3	1.2	1.7	12.7
12/8/15 5:36	37.008	-97.612	1.8	4.3	3.0	15.2
12/8/15 5:59	37.200	-97.257	0.9	1.6	1.6	11.8
12/8/15 6:33	37.173	-98.001	1.8	3.1	2.2	16.2
12/8/15 10:44	37.439	-98.937	1.4	2.0	2.5	13.0
12/8/15 18:41	37.223	-97.777	1.2	2.0	1.8	14.4
12/9/15 0:25	37.334	-97.786	1.7	0.8	0.8	13.9
12/9/15 0:41	37.215	-97.985	1.8	2.3	1.7	17.2
12/9/15 4:57	37.470	-97.908	1.0	2.0	3.3	12.0
12/9/15 15:02	37.090	-97.952	1.7	2.9	1.9	14.9
12/9/15 15:16	37.206	-97.949	2.0	2.3	1.7	16.0
12/9/15 17:43	37.615	-97.747	0.8	1.7	1.9	11.6
12/9/15 18:24	37.458	-97.415	0.7	4.5	5.4	3.5
12/9/15 20:31	37.114	-97.586	1.3	2.6	1.9	13.7
12/9/15 21:00	37.234	-98.028	1.7	1.6	1.2	15.9
12/10/15 4:55	37.079	-98.847	1.3	6.6	3.8	12.7
12/10/15 6:41	37.091	-97.992	1.3	2.7	2.4	16.7
12/10/15 8:00	37.040	-97.725	1.5	4.0	2.6	13.3
12/10/15 9:35	37.396	-97.826	0.3	3.3	7.6	11.1
12/10/15 11:28	37.194	-97.545	0.8	1.3	1.1	12.6
12/10/15 20:12	37.107	-97.909	1.8	7.9	1.5	18.2
12/10/15 21:49	37.056	-97.911	1.7	3.1	1.5	17.9
12/10/15 21:51	37.073	-97.918	1.1	1.4	0.8	16.2
12/10/15 21:52	37.079	-97.939	1.8	2.7	1.5	18.2
12/10/15 21:54	37.066	-97.940	2.0	2.1	1.4	19.0
12/10/15 22:05	37.089	-97.930	1.7	2.5	1.4	17.9
12/10/15 22:05	37.075	-97.921	1.3	3.0	1.6	16.7
12/10/15 22:07	37.072	-97.891	1.6	6.5	4.3	17.6

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/10/15 23:15	37.081	-97.956	1.3	6.0	4.4	16.7
12/11/15 0:11	37.066	-97.936	1.9	2.4	1.5	18.6
12/11/15 0:36	37.071	-97.916	1.7	3.1	1.6	17.9
12/11/15 0:40	37.069	-97.923	1.6	2.3	1.5	17.6
12/11/15 0:45	37.526	-97.930	1.4	2.3	2.0	14.0
12/11/15 0:49	37.076	-97.936	1.6	2.6	1.4	17.6
12/11/15 2:18	37.206	-97.971	1.6	2.6	1.4	16.6
12/11/15 4:28	37.501	-97.828	0.4	1.2	1.5	11.2
12/11/15 4:35	37.122	-98.295	1.7	3.2	1.9	13.9
12/11/15 5:05	37.045	-97.932	1.9	2.4	1.5	18.6
12/11/15 5:27	37.060	-97.933	1.2	1.7	1.4	16.4
12/11/15 6:11	37.233	-98.075	1.3	1.3	3.1	13.7
12/11/15 8:42	37.398	-98.032	1.3	1.6	1.6	12.7
12/11/15 10:43	37.289	-98.100	1.9	1.7	2.3	14.6
12/11/15 12:22	37.244	-98.034	1.3	3.8	3.1	14.7
12/11/15 14:40	37.155	-98.000	1.4	2.4	2.0	17.0
12/11/15 14:55	37.249	-97.583	1.1	0.6	1.1	12.2
12/11/15 16:36	37.079	-97.965	1.6	3.2	2.2	17.6
12/11/15 18:13	37.217	-97.892	1.4	1.2	0.8	14.0
12/11/15 19:20	37.272	-98.787	1.9	1.6	1.4	14.6
12/11/15 20:29	37.125	-97.623	1.5	2.2	1.5	13.3
12/11/15 22:06	37.096	-97.959	1.5	2.4	1.7	17.3
12/11/15 22:57	37.523	-97.854	1.4	1.7	2.1	15.0
12/12/15 8:42	37.172	-98.008	2.0	2.3	1.5	19.0
12/12/15 10:47	37.003	-97.491	1.9	2.7	1.7	14.6
12/12/15 11:24	37.165	-97.993	2.0	2.5	1.7	19.0
12/12/15 13:10	37.300	-98.265	1.4	2.3	1.8	9.0
12/12/15 14:32	37.020	-97.966	1.9	3.2	1.7	18.6
12/12/15 17:02	37.565	-97.823	1.4	0.8	1.1	15.0
12/12/15 17:24	37.163	-98.002	2.4	1.7	1.2	19.8
12/12/15 19:13	37.174	-98.001	1.5	2.0	1.9	17.3
12/12/15 23:33	37.127	-97.986	1.9	2.3	1.7	18.6
12/13/15 2:50	37.177	-97.997	1.2	2.5	1.5	15.4
12/13/15 4:02	37.072	-98.298	2.0	3.1	1.9	15.0
12/13/15 4:13	37.058	-97.935	2.1	1.8	1.1	19.4
12/13/15 4:18	37.087	-97.940	1.9	4.0	2.4	18.6
12/13/15 5:32	37.110	-97.929	0.9	4.8	3.2	13.8
12/13/15 8:06	37.365	-97.477	2.0	2.8	2.8	15.0
12/13/15 9:02	37.494	-97.809	1.8	1.2	1.4	17.2
12/13/15 9:10	37.492	-97.735	1.2	1.9	3.4	13.4
12/13/15 9:45	37.338	-97.781	1.8	1.4	1.4	14.2
12/13/15 11:43	37.513	-97.802	2.0	2.3	2.7	16.0
12/13/15 13:09	37.163	-97.993	1.0	2.4	1.7	15.0
12/13/15 15:44	37.314	-98.835	1.6	2.2	2.6	15.6
12/13/15 18:12	37.066	-98.026	2.0	3.2	2.1	18.0
12/13/15 19:40	37.525	-97.826	1.6	3.3	1.3	17.6
12/13/15 22:16	37.267	-97.859	1.6	2.6	1.9	15.6
12/14/15 1:17	37.302	-98.655	1.1	2.2	1.9	4.2
12/14/15 1:21	37.103	-97.511	1.4	5.1	3.4	14.0
12/14/15 3:52	37.292	-97.502	1.2	4.1	2.5	12.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/14/15 3:55	37.045	-97.524	1.5	2.0	1.0	14.3
12/14/15 4:26	37.216	-97.797	1.4	1.7	1.5	16.0
12/14/15 5:45	37.320	-98.822	1.8	1.3	1.9	17.2
12/14/15 5:49	37.078	-98.300	2.1	2.1	1.2	16.4
12/14/15 6:11	37.056	-97.523	2.1	2.7	1.7	15.4
12/14/15 6:13	37.320	-98.856	1.6	2.1	2.0	16.6
12/14/15 6:38	37.111	-98.278	1.9	1.2	1.9	15.6
12/14/15 8:24	37.036	-97.794	2.1	2.9	1.7	15.4
12/14/15 13:00	37.178	-98.008	2.1	1.4	1.0	15.4
12/14/15 13:37	37.201	-97.888	1.4	2.1	1.5	16.0
12/14/15 13:42	37.164	-97.955	1.5	2.3	1.9	14.3
12/14/15 18:06	37.524	-97.847	1.5	1.7	1.5	15.3
12/14/15 18:19	37.183	-97.778	1.4	4.1	2.6	14.0
12/14/15 22:09	39.038	-96.904	2.7	7.3	4.1	10.3
12/15/15 4:32	37.307	-98.856	2.1	1.7	1.3	18.4
12/15/15 9:50	37.247	-98.780	2.0	2.6	1.6	19.0
12/15/15 16:20	37.337	-98.864	2.1	2.0	1.8	19.4
12/15/15 17:05	37.294	-98.839	1.9	1.4	1.1	18.6
12/15/15 17:11	37.494	-97.814	1.5	1.1	1.3	15.3
12/16/15 3:46	37.295	-98.775	2.0	2.4	1.7	19.0
12/16/15 5:03	37.322	-98.857	2.2	2.1	1.8	19.8
12/16/15 5:30	37.304	-98.848	2.0	2.1	1.6	19.0
12/16/15 6:18	37.324	-98.863	1.9	5.1	4.9	18.6
12/16/15 8:39	37.505	-97.818	1.5	1.9	1.9	16.3
12/16/15 8:47	37.278	-97.607	0.6	1.0	2.0	12.4
12/16/15 8:47	37.277	-97.617	0.9	1.1	1.4	15.8
12/16/15 9:01	37.281	-97.622	1.9	1.2	1.7	16.6
12/16/15 9:04	37.278	-97.624	1.3	0.7	1.5	16.7
12/16/15 9:22	37.282	-97.628	1.7	1.5	1.7	17.9
12/16/15 9:24	37.388	-97.724	1.7	1.5	1.9	13.9
12/16/15 9:32	37.281	-97.627	1.3	0.6	1.3	16.7
12/16/15 10:50	37.274	-97.636	1.1	1.2	2.3	15.2
12/16/15 12:39	37.276	-97.618	1.8	1.0	1.4	18.2
12/16/15 14:43	37.185	-97.803	1.5	1.6	1.3	15.3
12/16/15 16:01	37.402	-98.003	1.8	0.6	0.7	12.2
12/16/15 17:51	37.570	-97.747	1.9	2.8	1.8	15.6
12/16/15 19:44	37.176	-97.798	1.7	1.1	1.0	15.9
12/17/15 0:13	37.449	-98.285	0.8	4.0	3.7	3.6
12/17/15 1:36	37.260	-98.014	1.5	2.4	1.9	14.3
12/17/15 2:00	37.500	-97.822	1.8	2.4	1.9	16.2
12/17/15 3:14	37.248	-97.889	1.4	0.8	0.9	14.0
12/17/15 3:52	37.085	-97.735	0.6	3.9	1.0	11.4
12/17/15 3:55	37.082	-97.700	1.6	3.3	1.9	16.6
12/17/15 6:15	37.206	-98.013	1.6	3.4	2.3	14.6
12/17/15 6:59	37.176	-97.800	1.2	2.0	1.5	15.4
12/17/15 8:42	37.031	-97.826	1.9	3.7	1.9	14.6
12/17/15 9:29	37.345	-97.785	2.0	1.6	1.9	15.0
12/17/15 12:44	37.500	-97.813	1.6	1.4	1.3	14.6
12/17/15 18:43	37.310	-98.848	1.8	1.7	1.7	14.2
12/17/15 21:31	37.291	-97.629	0.7	1.3	2.9	12.5

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/17/15 23:14	37.114	-98.014	1.8	2.1	2.0	14.2
12/17/15 23:20	37.093	-97.625	2.0	2.2	1.5	17.0
12/17/15 23:27	37.109	-97.712	1.6	3.9	2.1	16.6
12/18/15 1:26	37.292	-97.614	2.0	1.3	1.9	14.0
12/18/15 2:27	37.164	-97.866	1.9	1.7	1.3	18.6
12/18/15 3:13	37.113	-97.797	1.3	3.6	2.2	16.7
12/18/15 5:43	37.412	-97.971	1.7	0.9	1.0	13.9
12/18/15 7:25	37.008	-97.489	1.4	2.8	1.6	13.0
12/18/15 8:34	37.156	-97.870	1.5	1.5	1.1	17.3
12/18/15 10:25	37.066	-98.290	1.4	2.8	1.4	14.0
12/18/15 10:58	37.116	-98.258	1.7	2.7	1.7	15.9
12/18/15 11:38	37.153	-97.808	1.8	2.6	1.7	18.2
12/18/15 13:38	37.441	-98.939	1.9	1.6	2.0	14.6
12/18/15 14:02	37.293	-97.580	0.7	0.6	1.0	12.5
12/18/15 17:02	37.170	-97.803	1.0	2.1	1.8	16.0
12/18/15 17:03	37.187	-97.790	1.9	1.7	1.4	18.6
12/18/15 17:41	37.191	-97.794	1.2	2.7	2.1	16.4
12/18/15 20:09	37.363	-98.138	1.7	1.4	1.5	13.9
12/18/15 20:30	37.321	-98.990	1.3	1.1	1.6	6.7
12/18/15 21:44	37.169	-97.871	1.8	1.5	1.3	18.2
12/18/15 23:23	37.089	-98.274	2.0	2.7	1.7	16.0
12/18/15 23:44	37.164	-97.806	1.3	1.4	0.8	16.7
12/19/15 7:09	37.226	-98.001	2.2	1.8	1.3	17.8
12/19/15 7:38	37.235	-97.989	1.6	3.4	2.4	16.6
12/19/15 7:39	37.237	-98.012	2.3	2.9	2.0	18.3
12/19/15 7:57	37.238	-98.015	2.1	2.6	1.9	19.4
12/19/15 11:57	37.141	-97.532	2.0	4.1	2.3	15.0
12/19/15 17:32	37.183	-97.991	1.5	2.1	1.6	15.3
12/19/15 19:03	37.310	-98.853	1.7	2.2	2.1	14.9
12/19/15 23:12	37.293	-98.850	1.9	1.2	0.9	15.6
12/20/15 2:07	37.159	-98.002	1.6	1.6	0.9	16.6
12/20/15 4:51	37.167	-97.864	1.9	2.6	2.0	14.6
12/20/15 5:06	37.512	-98.329	1.2	6.1	6.9	6.4
12/20/15 6:08	37.544	-97.760	1.8	1.5	1.3	14.2
12/20/15 22:03	37.274	-98.025	1.6	4.2	3.2	15.6
12/21/15 4:15	37.318	-98.016	1.5	1.4	1.5	16.3
12/21/15 7:03	37.464	-98.277	1.5	2.7	1.8	9.3
12/21/15 8:19	37.135	-97.864	1.6	1.8	1.2	14.6
12/21/15 10:28	37.121	-97.685	2.0	2.6	1.7	17.0
12/21/15 10:46	37.314	-98.845	2.0	2.2	1.9	16.0
12/21/15 10:53	37.294	-98.842	2.0	2.2	1.6	16.0
12/21/15 11:03	37.126	-97.553	2.1	2.2	1.6	16.4
12/21/15 13:25	37.144	-97.663	2.1	2.6	1.9	17.4
12/21/15 14:30	37.017	-97.565	2.6	2.8	1.7	16.8
12/21/15 17:55	37.198	-97.896	2.0	1.6	1.1	16.0
12/21/15 18:31	37.062	-98.883	1.7	1.8	1.5	13.9
12/21/15 19:10	37.265	-98.014	1.1	1.0	1.1	15.2
12/21/15 21:15	37.060	-97.161	1.5	1.8	1.9	5.3
12/22/15 0:00	37.246	-98.031	1.5	1.6	1.4	15.3
12/22/15 0:07	37.149	-97.646	2.1	1.7	1.4	18.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/22/15 1:10	37.386	-97.702	1.9	1.7	1.7	16.6
12/22/15 3:12	37.140	-97.642	1.3	2.1	1.7	12.7
12/22/15 4:49	37.394	-97.715	2.3	1.5	2.0	18.3
12/22/15 8:04	37.159	-97.834	2.3	2.6	1.7	17.3
12/22/15 8:49	37.193	-97.794	1.0	2.0	1.5	12.0
12/22/15 9:54	37.388	-97.718	0.7	1.1	2.2	12.5
12/22/15 12:04	37.392	-97.881	1.2	2.1	4.8	12.4
12/22/15 13:50	37.400	-97.726	0.8	1.0	1.8	12.6
12/22/15 14:37	37.066	-97.924	1.6	3.0	2.1	17.6
12/22/15 14:38	37.067	-97.895	1.6	2.9	1.7	17.6
12/22/15 16:57	37.454	-98.130	1.1	11.2	4.1	4.2
12/22/15 18:49	37.522	-98.231	1.3	3.2	2.9	10.7
12/22/15 21:14	37.388	-97.712	2.1	1.5	2.1	17.4
12/23/15 6:45	37.045	-98.008	1.9	5.3	2.7	17.6
12/23/15 7:38	37.076	-97.879	1.5	4.2	2.5	17.3
12/23/15 12:43	37.043	-97.827	1.4	4.2	2.5	17.0
12/23/15 13:24	37.061	-97.852	1.7	3.9	2.3	17.9
12/23/15 15:50	37.238	-97.881	1.7	2.7	1.8	13.9
12/23/15 20:47	37.046	-97.929	2.1	3.6	2.6	17.4
12/23/15 21:38	37.257	-98.001	0.8	3.2	3.0	11.6
12/23/15 23:03	37.304	-98.840	2.2	2.0	1.7	17.8
12/24/15 0:33	37.146	-97.622	2.3	2.4	1.9	18.3
12/24/15 0:51	37.073	-97.908	1.8	3.3	1.8	18.2
12/24/15 1:07	37.163	-97.605	2.0	2.3	1.8	17.0
12/24/15 1:41	37.151	-97.611	2.3	2.1	1.6	18.3
12/24/15 4:24	37.281	-98.822	2.1	2.6	1.9	18.4
12/24/15 7:17	37.309	-98.841	2.0	2.2	1.8	18.0
12/24/15 14:18	37.208	-98.111	1.2	8.8	6.8	12.4
12/24/15 14:32	37.401	-97.719	1.3	1.2	1.7	12.7
12/24/15 16:02	37.058	-97.805	1.9	2.3	1.8	15.6
12/24/15 18:40	37.170	-97.809	1.9	1.5	1.3	15.6
12/24/15 21:27	37.685	-98.374	1.9	4.5	1.6	6.6
12/24/15 23:23	37.305	-98.856	1.8	2.3	2.0	16.2
12/25/15 0:19	37.082	-97.517	1.8	3.2	2.1	15.2
12/25/15 0:28	37.183	-97.780	2.2	2.1	1.6	15.8
12/25/15 2:32	37.180	-98.855	1.7	4.3	3.5	7.9
12/25/15 6:33	37.292	-97.965	2.2	3.0	2.5	14.8
12/25/15 9:13	37.069	-97.534	2.3	2.6	1.8	17.3
12/25/15 11:04	37.193	-98.012	2.1	3.2	1.6	16.4
12/25/15 14:13	37.188	-97.968	1.8	3.0	2.1	16.2
12/25/15 19:31	37.080	-97.777	1.0	8.0	7.9	13.0
12/25/15 20:10	37.142	-97.856	1.7	2.1	1.8	16.9
12/25/15 21:01	37.093	-97.994	1.9	2.6	1.8	18.6
12/25/15 23:06	37.156	-97.818	1.4	3.3	4.2	15.0
12/26/15 1:55	37.122	-97.828	2.0	3.1	2.2	15.0
12/26/15 2:52	37.052	-97.930	2.2	2.6	1.8	16.8
12/26/15 6:44	37.214	-97.974	1.5	4.4	2.5	15.3
12/26/15 7:56	37.394	-97.733	2.5	1.9	1.9	17.3
12/26/15 11:47	37.028	-97.934	2.0	3.1	2.2	16.0
12/26/15 13:17	37.096	-98.030	2.1	2.7	1.8	17.4

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/26/15 13:25	37.107	-98.078	1.9	4.4	2.2	16.6
12/26/15 15:31	37.167	-98.252	1.5	4.4	2.7	13.3
12/26/15 15:44	37.201	-97.891	2.0	4.5	4.2	17.0
12/26/15 21:46	37.456	-97.357	1.7	4.2	4.8	7.9
12/27/15 1:20	37.001	-97.169	1.6	2.2	2.2	7.6
12/27/15 12:45	37.210	-97.926	2.3	2.6	1.9	17.3
12/27/15 22:29	37.405	-97.697	2.0	1.1	1.4	15.0
12/28/15 2:20	37.325	-98.788	1.5	1.6	1.7	13.3
12/28/15 6:27	37.208	-97.792	1.4	2.7	2.0	13.0
12/28/15 6:59	37.317	-97.523	1.4	1.7	1.7	13.0
12/28/15 7:25	37.008	-97.518	2.1	2.6	1.5	15.4
12/28/15 13:17	37.074	-97.791	1.7	2.5	2.2	13.9
12/28/15 16:00	37.303	-98.834	2.6	2.1	1.7	16.8
12/28/15 19:17	37.196	-97.983	1.8	1.6	1.3	16.2
12/29/15 2:06	37.113	-98.876	2.2	2.2	1.5	16.8
12/29/15 2:10	37.104	-98.886	2.3	2.6	1.8	17.3
12/29/15 5:08	38.899	-97.475	1.8	2.4	2.5	6.2
12/29/15 6:54	37.210	-97.717	1.8	3.2	3.9	18.2
12/29/15 7:52	37.302	-97.908	1.5	1.3	1.2	13.3
12/29/15 8:11	37.244	-97.646	1.6	2.0	2.0	17.6
12/29/15 8:21	37.271	-97.626	1.4	1.6	1.6	17.0
12/29/15 8:47	37.248	-97.649	1.7	1.9	1.9	17.9
12/29/15 8:55	37.269	-97.642	0.9	1.9	2.0	12.8
12/29/15 9:25	37.224	-98.046	1.7	1.8	1.4	15.9
12/29/15 10:00	37.255	-97.648	1.7	2.0	1.9	17.9
12/29/15 12:23	37.113	-97.962	2.0	2.7	1.8	18.0
12/29/15 12:34	37.241	-98.201	2.2	2.3	1.5	15.8
12/29/15 12:40	37.264	-97.641	1.9	1.6	1.6	18.6
12/29/15 12:53	37.263	-97.629	1.6	2.1	1.9	17.6
12/29/15 14:06	37.266	-97.631	1.9	2.1	2.1	18.6
12/29/15 14:11	37.089	-97.946	2.1	2.8	1.9	18.4
12/29/15 17:46	37.266	-97.635	2.3	1.3	1.2	19.3
12/29/15 19:55	37.545	-97.827	1.4	1.6	1.8	13.0
12/29/15 20:31	37.201	-98.048	1.1	4.2	4.5	12.2
12/30/15 3:36	37.263	-97.644	2.0	2.3	2.0	18.0
12/30/15 4:37	37.093	-97.883	1.9	3.3	1.9	17.6
12/30/15 5:13	37.256	-98.069	2.0	1.5	1.4	16.0
12/30/15 7:27	37.265	-97.639	2.3	1.9	1.8	20.3
12/30/15 9:25	37.073	-97.924	2.0	2.8	1.9	18.0
12/30/15 18:37	37.393	-97.747	1.3	1.3	1.7	14.7
12/30/15 22:44	37.175	-97.932	2.1	2.3	1.9	17.4
12/30/15 23:04	37.287	-97.630	1.9	1.0	1.0	16.6
12/31/15 1:58	37.113	-98.056	2.5	1.8	1.2	16.3
12/31/15 2:08	37.280	-98.279	0.4	2.5	6.9	7.2
12/31/15 4:15	37.392	-97.721	1.7	1.5	1.6	15.9
12/31/15 5:23	37.217	-97.924	2.1	1.8	1.3	18.4
12/31/15 5:41	37.210	-97.935	1.4	2.6	1.7	15.0
12/31/15 8:21	37.385	-97.701	1.6	1.2	1.3	15.6
12/31/15 9:03	37.019	-99.365	2.2	1.7	2.1	7.8
12/31/15 9:14	37.243	-97.932	1.5	1.6	1.6	15.3

date and time (UTC)	latitude	longitude	magnitude	latitude error (km)	longitude error (km)	SAS
12/31/15 9:44	37.560	-97.755	2.1	1.8	1.4	14.4
12/31/15 10:05	37.327	-98.847	2.2	2.1	1.9	15.8
12/31/15 10:23	37.344	-98.014	2.1	1.0	1.2	16.4
12/31/15 14:16	37.149	-97.652	2.2	2.6	1.9	16.8
12/31/15 15:36	37.256	-98.020	2.3	1.7	1.3	18.3
12/31/15 16:31	37.137	-97.653	2.5	1.7	1.2	17.3
12/31/15 18:48	37.321	-98.008	1.8	1.9	1.0	16.2
12/31/15 21:01	37.231	-97.878	1.7	2.5	1.5	17.9