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TIERRA DEL FUEGO REFERENCE STANDARD EARTHQUAKE CATALOGUE

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Tierra del Fuego represents a tectonically very complex region and is a key area in the investigation of the geodynamic interaction among the South American, Antarctic and Scotia plates. The Island is crossed by a transforming margin characterized by a left lateral movement from the Scotia Ridge in the east to the Chilean Basin in the west. The Magallanes Fagnano system divides Tierra del Fuego in two continental blocks. The main fault, with E-W orientation, is parallel to the Fagnano lake mayor axis. This fault system constitutes the mayor segment of the SouthAmerican-Scotia border.

The methods of quantitative seismology (seismometry) appear to be a particularly suitable approach both to increase the knowledge of its tectonic evolution and of the main structural characteristics if a suitable seismological database is available. Since the 1990s a local seismometric network in Tierra del Fuego, including permanent broadband and short period stations, provide the seismological information required to afford these kinds of studies. It would also allow proper monitoring of Tierra del Fuego seismicity for civil protection purposes considering the high risk of heavy damages in the towns of Ushuaia and Rio Grande in the eventuality of a major earthquake such as the 1949 one. It is known that the most fundamental information for a hazard assessment is the record of past earthquakes. Among the important concerns are the completeness of the catalogues and whether sufficient studies have been conducted to estimate the earthquake sizes and locations in order to assess the implications of a modern recurrence.

Seismicity has been studied and records have been processed by Seisan Software, from Bergen University (Norway); a significant level of low to medium magnitude earthquakes with epicentre in Tierra del Fuego continental region and oceanic surrounding areas was found. More than 300 events has been identified during the period 1999-2006, some of them were felt by inhabitants of the island. The average magnitude was 2.0 and the greatest magnitude for that period in Isla Grande was the Mb = 3.7 earthquake with epicentre near Tolhuin City.

In this work we present an earthquake catalogue from the region using data provided by bulletins of some nearer stations; data from National, Regional or International Centres like INPRES, CERESIS, ISC, USGS; relocated events from a work done in La Plata University; journalist information of macro seismic data and the study of seismicity mentioned. Also we present a macro seismic questionnaire written and some interviews to local inhabitants that are useful to collect information about the big earthquakes of the region, such as the 1949 one. Finally, the criteria used for this catalogue are those recommended by the GSHAP (Global Seismic Hazard Assessment

Program) Steering Committee in order to develop the more complete Tierra del Fuego earthquake catalogue to serve as reference standard.

The data on the effects of the 17 December 1949 earthquake in Tierra del Fuego were obtained through numerous personal in-depth interviews with inhabitants of Tierra del Fuego using an standardized questionnaire. The result of this macroseismic survey was that most of the interviewees felt this seism, even in their sleep. At 4 a.m. they observed large objects moving around in their houses and the outside trees shaking from side to side. They also observed the cars appear and disappear under the waving streets. The next big ground movements were experienced at 7:30 a.m. and at 12 a.m. Animals displayed disturbed behaviour, which caught people's attention. There was only one casualty, a policeman who was hit by a beam that fell on his head while he was sleeping in a campsite near Fagnano lake. The comments from Punta Arenas (Chile) are that the earthquake was felt even more strongly.

In this catalogue the seisms recalculated in La Plata National University (Jaschek et al., 1982), those gathered from different sources and particularly those registered by Tierra del Fuego station network have been considered.

The free on-line SEISAN version 8.0, developed by Havskov and Ottemoller of the Institute of Solid Earth Physics of the University of Bergen, Norway, was used (Havskov and Ottemoller, 1999). The HYPOCENTER algorithm, the azimuth of arrival for three-component stations or arrays and the coda duration magnitude, were applied.

Localizations have been carried out with the highest possible number of stations in order to improve previous determinations with the errors being minor.

It should be highlighted that since the installation of TRVA station at the beginning of 2004 the number of registered seisms has significantly increased.

Having plotted the epicentres, the fact that a large number of events relates to the transform fault Magallanes-Fagnano and to Cordillera Darwin is observed.

The seismology of the region, obtained by Tierra del Fuego Station Network for the period 06/1999-07/2007, shows a result of about 750 events, with magnitudes of up to 4.4, which indicates that during this eight-year period there has been a liberation of continuous energy. This can be accounted for by the slow relative movement between the South American and the Scotia plates and which is consistent with other studies and with the features of current tectonics, previously described.

References

Jaschek, E.U, Sabbione, N.C & Sierra, P.J. Reubicación de sismos localizados en territorio argentino (1920-1963). Observatorio Astronómico de la Universidad Nacional de La Plata, Serie Geofísica, tomo XI, no. 1, ISSN 0325-3201. <http://sedici.unlp.edu.ar/handle/10915/85016>

Havskov and Ottemoller, SeisAn Earthquake analysis software, Seis. Res. Lett., 70, 1999. http://www.seismosoc.org/publications/SRL/SRL_70/srl_70-5_es.html

Anexo: CUESTIONARIO MACROSÍSMICO

Sismo del día: Hora de percepción (aproximada):

Al ocurrir el terremoto usted se encontraba:

Localidad: Código Postal:

Provincia:

Percepción de las personas

¿Notó el terremoto?

SI

NO

NO RECUERDA

Duración aproximada del temblor

¿Sintió un solo temblor?

SI

NO

NO RECUERDA

Si fueron más de uno, ¿cuántos sintió?

¿A qué hora aproximada sintió los demás temblores?

En el momento del temblor, ¿usted se encontraba solo?

SI

NO

NO RECUERDA

¿Cuántas personas percibieron el temblor?

En ese momento usted estaba:

De pie

Recostado

Durmiendo

En un vehículo

Sentado

Caminando

Otra situación

En el momento del sacudón usted estaba:

Dentro de una estructura

Fuera de una estructura (al aire libre)

Si estaba dentro de una estructura, ¿qué tipo de construcción era?:

Adobe, mampostería, baja calidad

Madera u hormigón armado, buena calidad

Ladrillo, cemento, sin refuerzos

Hormigón armado, acero, diseño antisísmico

¿Qué efectos observó en los objetos?

Oscilaciones de lámparas, cuadros u otros objetos colgados

SI

NO

NO RECUERDA

Vibraciones de cristales, vajillas, sillas, camas

SI

NO

NO RECUERDA

Desplazamiento de objetos ligeros (sillas, etc)

SI

NO

NO RECUERDA

Desplazamiento de objetos pesados (heladera, televisor, etc)

SI

NO

NO RECUERDA

Oscilación de líquidos en recipientes

SI

NO

NO RECUERDA

Caída de objetos

SI
NO
NO RECUERDA

Rotura de cristales de ventanas o puertas

SI
NO
NO RECUERDA

¿Qué efectos observó en las construcciones?

Finas grietas o fisuras en las paredes

SI
NO
NO RECUERDA

Caída de revestimiento

SI
NO
NO RECUERDA

Caída de tejas

SI
NO
NO RECUERDA

Daños graves

SI
NO
NO RECUERDA

¿Qué efectos observó en el entorno?

Árboles y arbustos sacudidos

SI
NO
NO SE

Ruido

SI
NO
NO SE

Formación de oleaje en lagos

SI
NO
NO SE

Ramas de árboles rotas

SI
NO
NO SE

Cambio extraño en ríos/lagos

SI
NO
NO SE

Caída de árboles

SI
NO
NO SE

Actitud extraña en animales

SI
NO
NO SE

Movimiento del terreno

SI
NO
NO SE

Datos Personales (OPCIONAL)

Nombre y Apellido:

Edad:

Número de Documento:

Dirección:

COMENTARIOS:

CATALOGO SISMICO DE REFERENCIA DE TIERRA DEL FUEGO

TIERRA DEL FUEGO REFERENCE EARTHQUAKE CATALOGUE

v 1.0

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Para la confección de este catálogo se contó con la subvención del proyecto PFIP 2005 "Ampliación de la red de monitoreo sismológico y determinación de la peligrosidad sísmica en Tierra del Fuego"

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
1879-02-02	03:30:00.0	similar a 1949	idem		7-7.5		2
1902-11-11		-53	-71				7
1929-02-02	10:30:00.0	-53	-65				6
1929-06-07	00:05:00.0	-53	-65.5				8
1930-06-07	01:12:00.0	-56	-67		6.3	"Ms"	6
1930-07-13	01:12:15.1	-56.67	-69.42	33	6.2	"Ms"	1
1944-11-21	10:02:26.2	-56.67	-66.28	33	"6.5"	"Ms"	1
1949-12-17	06:53:28.3	-54.24	-69.03	33	"7.8"	"Ms"	1
1949-12-17	12:55:47.7	-54.17	-69.02	33			1
1949-12-17	15:07:53.6	-53.89	-69.67	13	"7.8"	"Ms"	1
1949-12-17	22:30:48.2	-53.59	-70.49	70			1
1949-12-19	07:40:44.7	-54.35	-61.48	33			1
1950-01-30	00:56:36.7	-52.98	-70.88	35	7	"Ms"	1
1950-05-13	18:00:54.1	-51.88	-72	33			1
1954-08-28	23:04:24.0	-57.6	-65.8				8

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
1958-11-24	06:48:57.9	-57.67	-65.63	5			1
1960-02-08	12:45:39.0	-58.22	-65.98	33	"6.8"	"Ms"	1
1962-09-21	22:38:50.0	-57.77	-64.96	31			1
1970-06-14	00:00:09.0	-51.94	-74.17	10	"5.9"	"Mb"	3
1970-06-14	00:12:24.0	-52.11	-74.26	23	"5.4"	"Mb"	3
1970-06-14	07:23:11.9	-52.08	-73.9	33	"4.6"	"Mb"	3
1970-06-14	20:02:45.6	-51.98	-74.2	33	"4.7"	"Mb"	3
1970-06-15	11:14:54.4	-54.31	-64.2	38	"5.7"	"Mb"	3
1970-07-26	15:07:32.5	-52.1	-74.6	33	"4.9"	"Mb"	3
1970-09-19	23:41:48.5	-51.94	-74.1	33	"4.8"	"Mb"	3
1972-08-13	11:47:51.8	-51.82	-73.83	64	"5.5"	"Mb"	3
1973-04-13	22:36:39.5	-52.49	-72.05	11	5	"Mb"	3
1975-12-29	03:39:43.9	-56.8	-68.42	18	"5.9"	"Mb"	3
1975-12-29	04:55:20.0	-56.72	-68.31	33	"4.9"	"Mb"	3
1975-12-29	09:30:07.2	-56.83	-68.48	36	"5.1"	"Mb"	3
1976-01-01	03:47:02.1	-56.90	-68.13	42			3
1976-01-29	12:07:20.4	-56.94	-68.20	33	"5.1"	"Mb"	3
1976-02-14	03:10:37.6	-57.39	-64.46	40	"5.9"	"Mb"	3
1977-06-27	06:50:06.2	-56.86	-67.93	29	5	"Mb"	3
1977-10-15	14:15:06.3	-53.99	-70.74	33	"4.8"	"Mb"	3
1979-06-06	11:44:56.0	-52.73	-74.71	62	"5.3"	"Ms"	3
1980-02-05	13:52:49.4	-57.52	-66.99	10	"4.7"	"Ms"	3
1983-06-21	16:19:44.9	-57.22	-66.61	33	"4.9"	"Mb"	3
1983-09-10	19:45:25.4	-57.49	-65.28	10	"4.9"	"Mb"	3
1984-05-04	17:36:56.4	-57.96	-65.62	10	"5.1"	"Mb"	3
1984-11-08	02:21:07.2	-57.09	-64.66	33	"4.8"	"Mb"	3
1985-04-17	08:31:55.6	-57.50	-65.63	33	"4.9"	"Mb"	3
1987-06-21	10:08:58.8	-57.27	-66.75	33	"5.4"	"Mb"	3
1987-07-05	12:47:05.7	-56.89	-67.05	10	"4.2"	"Ms"	3
1988-10-22	11:51:16.6	-52.98	-73.88	10	"4.9"	"Mb"	3
1988-11-19	13:24:38.0	-52.99	-73.01	33	"3.9"	"Ms"	3
1988-12-31	14:24:45.6	-52.42	-74.42	33	"4.2"	"Ms"	3

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
1991-03-06	13:08:03.7	-57.13	-66.70	10	"4.5"	"Ms"	3
1993-03-10	00:49:39.7	-52.43	-71.27	33	"4.9"	"Mb"	3
1995-01-03	16:11:57.1	-57.68	-65.97	14	"5.6"	"Ms"	3
1995-05-06	00:59:53.9	-57.72	-65.59	10	"4.8"	"Mb"	3
1995-05-06	01:49:55.1	-57.73	-65.18	10	"4.4"	"Mb"	3
1996-03-01	02:48:28.3	-57.31	-66.62	10	"4.3"	"Ms"	3
1996-08-31	18:59:20.7	-53.09	-72.56	33	"4.4"	"Ms"	3
1997-01-03	20:19:34.9	-52.28	-71.52	33	"4.3"	"Mb"	3
1997-01-04	08:11:32.1	-52.43	-71.24	61	4	"Mb"	3
1997-04-26	23:46:57.8	-52.17	-70.90	33	"3.5"	"Ms"	3
1997-11-30	sentido en Ush...	-54.78	-67.96		"3.5"	"M Lee (*)"	5
1997-11-30	réplica	-54.77	-67.98		"1.8"	"M Lee"	5
1998-06-22		-55.06	-71.41		"3.3"	"M Lee"	5
1998-08-07		-57.55	-68.02		"4.3"	"M Lee"	5
1998-08-08		-54.17	-67.67		"2.5"	"M Lee"	5
1998-08-12		-54.62	-69.55		"2.7"	"M Lee"	5
1998-08-13		-52.45	-73.66		"4.6"	"M Lee"	5
1998-08-20		-56.44	-69.85		"3.6"	"M Lee"	5
1998-08-27	09:11:48.4	-57.56	-66.21	10	5	"Ms"	3
1998-09-27		-57.46	-67.24		"4.1"	"M Lee"	5
1998-10-06		-53.44	-73.62		"4.5"	"M Lee"	5
1998-10-08		-55.22	-63.7		4	"M Lee"	5
1998-10-10		-54.48	-68.55		4	"M Lee"	5
1998-11-19		-55.06	-67.04		"2.7"	"M Lee"	5
1998-12-12		-56.64	-62.06		"4.2"	"M Lee"	5
1999-01-04		-55.77	-66.37		3	"M Lee"	5
1999-01-11		-54.84	-68.31		"2.3"	"M Lee"	5
1999-01-14		-52.61	-73.04		"4.7"	"M Lee"	5
1999-01-15		-56.78	-67.92		"4.4"	"M Lee"	5
1999-01-16		-55.51	-71.86		"3.6"	"M Lee"	5
1999-01-27		-55.34	-71.47		"3.6"	"M Lee"	5

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
1999-02-12		-57.38	-68.05		"4.4"	"M Lee"	5
1999-02-13		-54.89	-67.97		"3.7"	"M Lee"	5
1999-02-21		-53.77	-65.87		"3.9"	"M Lee"	5
1999-03-01		-56.16	-67.54		"2.9"	"M Lee"	5
1999-03-18		-54.69	-64.74		"3.8"	"M Lee"	5
1999-03-22		-55.29	-69.04		"2.6"	"M Lee"	5
1999-03-26		-54.76	-67.82		2	"M Lee"	5
1999-03-27		-54.92	-67.64		"2.8"	"M Lee"	5
1999-03-31		-54.52	-69.05		"2.9"	"M Lee"	5
1999-04-09		-54.8	-67.83		"2.3"	"M Lee"	5
1999-04-19		-57.81	-64.56		"4.5"	"M Lee"	5
1999-04-24		-54.38	-68.24		"2.4"	"M Lee"	5
1999-05-03	16:52:22.6	-51.97	-75.2	44	"3.6"	"Ms"	3
1999-05-27		-54.13	-64.28		3	"M Lee"	5
1999-05-28		-54.28	-71.45		"3.4"	"M Lee"	5
1999-06-08		-52.2	-67.5		"5.4"	"M Lee"	5
1999-06-11	08:03:59.0	-55.28	-67.53	29	"1.8"	"Mc"	4
1999-06-12	12:16:51.2	-58.52	-65.97	30	"3.9"	"Mc"	4
1999-06-18	10:32:47.0	-54.95	-69.27	29	"1.7"	"Mc"	4
1999-07-04	06:47:47.6	-55.80	-63.11	33	"3.8"	"Mb"	4
1999-07-20	13:26:30.0	-53.46	-68.64	16	"2.1"	"Mc"	4
1999-08-22	10:38:35.5	-55.80	-66.73	29	"1.9"	"Mc"	4
1999-08-28	22:30:34.0	-58.51	-62.41		"3.7"	"Mc"	4
1999-08-29	22:30:27.3	-57.59	-60.29	32	"3.7"	"Mc"	4
1999-08-30	03:31:31.5	-56.89	-66.16	29	"3.1"	"Mc"	4
1999-08-31	18:08:56.4	-59.01	-72.45	30	4	"Mc"	4
1999-09-04	06:37:54.3	-59.96	-65.07	29	"3.7"	"Mc"	4
1999-09-05	09:16:32.2	-55.48	-63.22	16	"2.5"	"Mc"	4
1999-09-14	04:33:27.0	-54.11	-72.11	30	"2.5"	"Mc"	4
1999-10-01	06:38:06.1	-56.62	-67.21	16	"2.7"	"Mc"	4
1999-10-18	02:44:33.4	-52.44	-38.63	22		"Mc"	4
1999-11-01	04:47:20.5	-53.37	-68.04	22	"1.6"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
1999-11-03	00:45:26.2	-58.04	-62.11	30	4	"Mc"	4
1999-12-18	22:22:41.8	-54.75	-74.58	18	"3.2"	"Mc"	4
2000-01-05	17:55:11.4	-56.10	-58.44		"5.2"	"Mc"	4
2000-02-04	01:43:52.4	-50.38	-70.74	22	"2.9"	"Mc"	4
2000-03-02	13:14:19.8	-56.14	-74.50	22	"3.7"	"Mc"	4
2000-03-21	04:41:58.6	-55.29	-68.42	29	"2.2"	"Mc"	4
2000-03-21	12:34:25.9	-54.13	-69.74	22	"1.8"	"Mc"	4
2000-03-30	22:30:51.3	-55.37	-73.45	22	"3.8"	"Mc"	4
2000-05-13	01:37:37.3	-57.66	-65.04	22	"3.3"	"Mc"	4
2000-06-13	08:45:39.6	-54.94	-68.09	30	"1.4"	"Mc"	4
2000-06-13	11:17:28.2	-54.41	-69.74	30	"1.8"	"Mc"	4
2000-06-21	21:25:08.2	-54.37	-64.82	30	"2.1"	"Mc"	4
2000-07-01	08:37:12.6	-54.29	-70.03	28	"2.3"	"Mc"	4
2000-07-06	16:31:05.3	-54.78	-67.28	22	"1.3"	"Mc"	4
2000-07-10	17:22:10.9	-54.28	-72.14	30	"2.5"	"Mc"	4
2000-07-27	01:33:41.0	-58.54	-65.63	22	"3.3"	"Mc"	4
2000-08-20	11:56:22.5	-54.78	-69.82	30	"1.4"	"Mc"	4
2000-08-27	04:58:18.3	-54.70	-66.13	29	"2.5"	"Mc"	4
2000-10-21	13:27:34.4	-54.56	-65.3	30	"2.4"	"Mc"	4
2000-11-01	21:25:58.6	-52.90	-75.24	22	"3.6"	"Mc"	4
2000-11-11	15:14:25.8	-55.64	-70.95	22	"2.6"	"Mc"	4
2000-11-20	02:36:46.2	-55.00	-69.52	29	"2.1"	"Mc"	4
2000-12-01	23:00:01.7	-54.58	-61.59	31	"3.2"	"Mc"	4
2000-12-02	09:05:46.6	-57.12	-65.71	22	4	"Mc"	4
2000-12-03	00:50:59.4	-54.69	-64.83	29	3	"Mc"	4
2001-01-07	01:41:02.6	-54.46	-70.68	12	"2.2"	"Mc"	4
2001-01-27	09:01:19.0	-53.02	-68.37	22	"2.5"	"Mc"	4
2001-01-27	20:13:21.6	-51.66	-74.15	22	"3.5"	"Mc"	4
2001-02-13	13:37:17.8	-56.49	-67.56	22	"3.1"	"Mc"	4
2001-03-06	14:37:31.1	-55.60	-67.79	29	"3.1"	"Mc"	4
2001-03-31	01:37:11.2	-55.66	-69.26	22	"2.2"	"Mc"	4
2001-03-31	05:03:13.7	-55.05	-71.56	27	"2.4"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2001-03-31	06:58:59.2	-53.60	-71.46	21	"3.8"	"Mc"	4
2001-04-01	13:17:26.9	-54.69	-64.54	25	"3.2"	"Mc"	4
2001-04-05	04:28:20.5	-55.24	-73.26	7	"3.8"	"Mc"	4
2004-05-14	06:13:29.3	-54.34	-67.14	22	"2.3"	"Mc"	4
2001-04-15	12:24:51.4	-56.03	-70.10	22	"2.8"	"Mc"	4
2001-04-21	18:20:17.5	-52.16	-71.44	29	"3.3"	"Mc"	4
2001-05-05	17:52:51.8	-56.67	-70.59	30	"2.4"	"Mc"	4
2001-05-07	13:23:14.2	-56.15	-70.84	30	"2.2"	"Mc"	4
2001-05-12	17:49:45.6	-54.16	-71.46	30	"2.2"	"Mc"	4
2001-05-13	03:21:41.4	-54.33	-64.19	12	"2.6"	"Mc"	4
2001-05-16	09:23:15.6	-54.48	-68.57	22		"Mc"	4
2001-06-12	10:05:41.9	-57.81	-65.03	30	"2.8"	"Mc"	4
2001-06-13	18:58:42.0	-56.30	-72.08	28	3	"Mc"	4
2001-06-27	06:17:20.9	-58.48	-65.77		"4.3"	"Mc"	9
2001-06-30	18:34:31.8	-52.35	-71.15	30	"2.6"	"Mc"	4
2001-07-02	22:36:35.6	-55.26	-69.35	22	"1.9"	"Mc"	4
2001-08-06	11:02:37.4	-54.14	-63.86	8	"2.5"	"Mc"	4
2001-08-17	20:22:21.0	-57.33	-71.26	2	"3.3"	"Mc"	4
2001-08-21	07:02:48.0	-52.69	-70.29		"2.8 "	"Mc"	4
2001-08-26	05:42:12.6	-55.40	-69.03	22	"2.3"	"Mc"	4
2001-08-28	06:22:03.8	-55.05	-71.64	27	"2.1"	"Mc"	4
2001-09-04	03:13:52.7	-54.62	-62.79	25	"3.5"	"Mc"	4
2001-09-05	17:24:39.2	-54.56	-64.76	28	"2.5"	"Mc"	4
2001-09-12	09:00:37.0	-55.47	-70.47		2	"Mc"	4
2001-09-12	21:34:34.9	-57.41	-66.71	22	"2.7"	"Mc"	4
2001-09-13	13:04:38.6	-54.62	-70.04	15	"1.3"	"Mc"	4
2001-09-21	04:27:53.3	-56.35	-70.46	23	"2.3"	"Mc"	4
2001-09-22	16:08:48.1	-54.61	-67.99	22	"1.6"	"Mc"	4
2001-09-12	21:34:41.0	-57.80	-67.23		"2.8 "	"Mc"	4
2001-10-01	04:23:11.0	-54.25	-66.75		"2.7 "	"Mc"	4
2001-10-02	15:04:07.7	-52.22	-72.53	19	3	"Mc"	4
2001-10-14	00:42:49.1	-54.26	-61.32	6	"3.2"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2001-10-17	09:49:02.9	-52.28	-73.82	1	"3.4"	"Mc"	4
2001-10-20	03:09:36.1	-56.04	-72.80	29	"3.3"	"Mc"	4
2001-10-21	07:29:29.2	-51.77	-76.19	21	"3.8"	"Mc"	4
2001-10-30	21:54:56.8	-55.28	-67.49	22	"1.6"	"Mc"	4
2001-11-04	12:57:50.8	-56.83	-71.3	22	"3.6"	"Mc"	4
2001-11-06	11:09:50.2	-56.27	-67.02	22	"2.5"	"Mc"	4
2001-11-14	13:14:01.5	-53.41	-72.38	4	"3.5"	"Mc"	4
2001-11-21	00:29:31.4	-55.71	-69.54	227	"2.6"	"Mc"	4
2001-11-23	09:27:59.9	-54.58	-68.70	28	"1.1"	"Mc"	4
2001-11-28	23:23:17.7	-54.13	-70.19	0	"2.7"	"Mc"	4
2001-12-02	02:08:13.0	-56.31	-70.12	29	"1.8"	"Mc"	4
2001-12-23	18:46:57.8	-59.98	-58.06		"4.9 "	"Mc"	9
2001-12-27	09:28:40.2	-54.80	-70.56	22	"2.7"	"Mc"	4
2002-01-22	02:25:18.0	-58.44	-65.63		"4.2 "	"Mc"	9
2002-01-25	00:36:37.6	-56.83	-68.81	30	"2.7"	"Mc"	4
2002-01-27	00:36:41.0	-56.76	-68.78		"2.6 "	"Mc"	4
2002-01-27	06:25:07.5	-52.98	-67.93	22	"2.8"	"Mc"	4
2002-01-28	11:09:48.9	-56.15	-70.93	30	"2.4"	"Mc"	4
2002-01-29	16:42:36.6	-57.73	-65.63	18	"3.9"	"Mc"	4
2002-01-31	16:42:38.0	-57.77	-66.08	10	"3.8"	"Ms"	4
2002-02-01	23:25:02.8	-56.10	-70.80	30	"1.9"	"Mc"	4
2002-02-02	13:46:49.3	-55.11	-68.86	49	"2.2"	"Mc"	4
2002-02-03	03:48:04.8	-59.22	-71.39	22	"3.8"	"Mc"	4
2002-03-24	16:42:43.0	-57.43	-65.07		"3.9"	"Mc"	9
2002-04-22	23:37:59.4	-55.14	-71.61	30	3	"Mc"	4
2002-04-30	23:45:01.0	-55.95	-63.74	14	3	"Mc"	4
2002-05-17	15:38:46.2	-57.82	-71.40	31	"3.1"	"Mc"	4
2002-05-22	12:23:36.3	-55.29	-69.00	22	1	"Mc"	4
2002-05-24	00:27:40.7	-52.94	-70.06	16	"2.3"	"Mc"	4
2002-05-25	07:33:22.9	-55.02	-69.7	22	2	"Mc"	4
2002-05-28	17:01:33.2	-54.43	-71.83	21	"3.2"	"Mc"	4
2002-06-01	03:09:08.0	-54.69	-68.16	2	"1.5"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2002-06-02	09:42:08.8	-54.67	-68.43	25	"1.5"	"Mc"	4
2002-06-04	18:28:50.6	-55.15	-68.96	59	"2.6"	"Mc"	4
2002-06-19	03:32:11.9	-55.14	-68.11	28	"2.8"	"Mc"	4
2002-06-23	13:59:13.7	-54.67	-65.93	29	"2.7"	"Mc"	4
2002-06-29	01:10:35.5	-56.73	-69.91	17	3	"Mc"	4
2002-07-04	08:25:16.1	-54.72	-69.28	29	"2.4"	"Mc"	4
2002-07-08	10:55:21.4	-53.50	-68.65	21	"2.1"	"Mc"	4
2002-07-08	15:21:02.4	-55.20	-68.15	30	2	"Mc"	4
2002-07-10	13:48:48.7	-54.62	-66.62	29	"2.1"	"Mc"	4
2002-07-12	10:53:59.6	-52.90	-71.61	30	"3.2"	"Mc"	4
2002-07-21	07:26:24.3	-55.31	-67.94	30	"1.7"	"Mc"	4
2002-07-24	04:59:51.3	-55.34	-66.89	30	"1.8"	"Mc"	4
2002-07-25	13:49:39.3	-55.16	-67.47	30	"2.2"	"Mc"	4
2002-07-27	17:35:12.4	-54.27	-68.72	12	"0.7"	"Mc"	4
2002-07-28	18:07:13.1	-54.65	-68.76	46	"1.7"	"Mc"	4
2002-07-28	22:53:42.7	-54.23	-68.75	12	"0.2"	"Mc"	4
2002-07-28	23:49:44.6	-54.62	-68.81	22		"Mc"	4
2002-07-29	04:30:50.1	-53.62	-69.24	20	"1.2"	"Mc"	4
2002-08-05	07:19:10.0	-54.60	-69.20	22	2	"Mc"	4
2002-08-10	22:17:52.2	-54.23	-68.52	22	"-0.9"	"Mc"	4
2002-08-11	12:48:41.7	-53.19	-57.34	30	"4.4"	"Mc"	4
2002-08-11	13:02:53.3	-59.64	-62.77	29	4	"Mc"	4
2002-08-11	14:47:35.9	-54.36	-57.66	22	"4.3"	"Mc"	4
2002-08-15	09:19:50.9	-48.88	-71.50	30	4	"Mc"	4
2002-08-15	22:17:37.5	-55.00	-67.35	29	2	"Mc"	4
2002-08-22	01:59:15.0	-49.83	-75.58	20	"3.9"	"Mc"	4
2002-08-22	03:47:04.8	-48.77	-74.59	17	"3.4"	"Mc"	4
2002-08-22	09:41:51.7	-55.87	-58.03	31	"3.9"	"Mc"	4
2002-08-25	17:52:44.1	-55.16	-67.80	30	"1.9"	"Mc"	4
2002-08-26	14:11:35.8	-55.45	-68.37	30	"1.9"	"Mc"	4
2002-08-27	06:52:59.7	-55.29	-68.59	29	"2.5"	"Mc"	4
2002-08-27	12:53:39.3	-53.56	-76.45	29	"3.4"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2002-09-12	05:31:28.2	-52.91	-72.64	29	"2.8"	"Mc"	4
2002-09-16	15:55:06.5	-55.00	-69.98	22	"1.7"	"Mc"	4
2002-09-21	08:53:30.2	-55.24	-61.23	30	"3.3"	"Mc"	4
2002-09-21	09:11:53.9	-50.23	-73.12	29	"3.5"	"Mc"	4
2002-09-21	09:25:05.2	-54.81	-68.90	22	"0.9"	"Mc"	4
2002-09-28	18:33:10.4	-54.10	-69.34	22	"-0.4"	"Mc"	4
2002-09-29	00:43:47.9	-53.83	-71.18	30	"1.5"	"Mc"	4
2002-09-30	15:18:44.0	-55.54	-70.34	29	"2.4"	"Mc"	4
2002-09-30	15:41:03.4	-50.10	-72.48	30	"2.9"	"Mc"	4
2002-10-05	02:22:08.9	-54.27	-71.21	30	"2.3"	"Mc"	4
2002-10-12	07:16:24.0	-54.96	-70.22	30	"1.9"	"Mc"	4
2002-10-13	21:33:07.4	-54.65	-66.79	22	"2.1"	"Mc"	4
2002-10-16	09:43:45.8	-52.99	-71.43	29	"2.2"	"Mc"	4
2002-11-06	02:23:28.7	-54.72	-66.18	22		"Mc"	4
2002-11-08	10:11:39.0	-51.07	-75.45	30	4	"Mc"	4
2002-12-25	06:39:58.9	-54.78	-68.55	22	"2.7"	"Mc"	4
2003-01-29	14:25:34.6	-56.61	-73.24	30	"3.2"	"Mc"	4
2003-02-01	18:25:23.5	-55.52	-67.32	22	"0.6"	"Mc"	4
2003-02-21	06:14:51.6	-54.56	-61.11	29	"2.9"	"Mc"	4
2003-03-01	02:52:39.6	-54.82	-69.52	30	"1.8"	"Mc"	4
2003-03-21	06:27:56.4	-55.92	-69.17	27	2	"Mc"	4
2003-04-05	00:32:53.9	-54.36	-70.01	29	2	"Mc"	4
2003-04-05	04:26:42.1	-54.53	-70.47	29	"1.8"	"Mc"	4
2003-04-11	19:14:32.1	-54.37	-65.98	22	"2.5"	"Mc"	4
2003-04-26	04:12:56.2	-54.70	-66.93	22	"3.6"	"Mc"	4
2003-05-14	23:43:12.3	-53.50	-58.65	30	"4.4"	"Mc"	4
2003-05-17	01:27:45.0	-59.34	-72.84	29	4	"Mc"	4
2003-06-07	10:44:44.7	-54.61	-69.28	22	"1.7"	"Mc"	4
2003-07-13	20:57:33.5	-54.85	-63.58	12	"2.2"	"Mc"	4
2003-07-14	17:36:26.9	-54.83	-62.84	30	"2.9"	"Mc"	4
2003-07-15	04:25:07.3	-54.64	-64.33	20	"3.3"	"Mc"	4
2003-07-19	10:50:10.3	-56.55	-67.49	22	"2.6"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2003-07-23	18:23:54.0	-54.72	-70.92	26	"1.8"	"Mc"	4
2003-08-01	03:24:43.7	-54.61	-67.24	22	"1.6"	"Mc"	4
2003-08-10	02:09:08.2	-57.93	-67.47	31	"3.7"	"Mc"	4
2003-08-26	04:51:39.7	-55.61	-69.49	30	"2.7"	"Mc"	4
2003-09-03	11:52:08.8	-53.33	-75.49	9	"3.8"	"Mc"	4
2003-09-07	08:42:47.6	-52.93	-75.22	29	"3.4"	"Mc"	4
2003-09-15	11:02:43.8	-58.14	-68.55	30	3	"Mc"	4
2003-09-28	16:04:42.3	-52.98	-75.76	30	"3.9"	"Mc"	4
2003-10-02	17:11:30.8	-61.03	-64.00	22	4	"Mc"	4
2003-10-24	03:59:51.7	-51.76	-76.65	14	"4.3"	"Mc"	4
2003-10-28	03:34:00.7	-51.82	-76.03	21	"3.9"	"Mc"	4
2003-10-28	04:32:41.1	-51.27	-76.27	7	"3.6"	"Mc"	4
2003-10-28	05:10:35.0	-51.65	-77.00	14	"4.3"	"Mc"	4
2003-11-27	16:48:03.0	-53.40	-74.03	27	"3.2"	"Mc"	4
2003-12-15	10:00:57.2	-55.38	-73.95	32	"3.4"	"Mc"	4
2003-12-15	22:19:58.5	-56.94	-66.39	12	"2.3"	"Mc"	4
2004-01-01	15:58:09.1	-54.40	-70.21	22	"1.9"	"Mc"	4
2004-01-15	05:57:55.0	-54.23	-63.90	38	"2.9"	"Mc"	4
2004-01-22	11:16:02.3	-52.00	-74.96	33	"4.2"	"Mb"	3
2004-02-07	12:40:36.4	-59.02	-79.26	22	"4.1"	"Mc"	4
2004-02-16	04:32:14.5	-55.00	-68.28	22	"1.6"	"Mc"	4
2004-02-16	04:33:56.2	-54.40	-68.31	22		"Mc"	4
2004-02-24	02:33:47.0	-54.05	-70.79	30	"2.9"	"Mc"	4
2004-02-24	05:34:07.0	-54.90	-66.34	22	"3.3"	"Mc"	4
2004-03-11	21:42:11.1	-53.7	-59.87	22	"4.2"	"Mc"	4
2004-03-13	09:45:23.7	-54.14	-71.59	13	3	"Mc"	4
2004-04-07	22:42:26.3	-55.10	-69.16	29	"2.2"	"Mc"	4
2004-04-10	01:04:44.3	-54.42	-69.12	29	"2.2"	"Mc"	4
2004-04-20	01:15:47.2	-56.92	-69.57	31	"3.2"	"Mc"	4
2004-04-26	20:59:07.0	-55.95	-71.39	30	"2.9"	"Mc"	4
2004-04-30	02:15:34.2	-54.54	-71.35	30	"2.2"	"Mc"	4
2004-05-04	06:25:41.5	-56.24	-70.03	22	"2.6"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2004-05-17	06:41:36.6	-54.58	-69.79	9	2	"Mc"	4
2004-05-17	19:27:51.2	-56.01	-67.76	30	2	"Mc"	4
2004-05-18	16:26:19.3	-54.72	-69.66	29	"1.4"	"Mc"	4
2004-05-21	05:21:07.9	-54.65	-68.10	22	"2.1"	"Mc"	4
2004-05-22	08:09:19.8	-54.50	-67.49	14	"0.3"	"Mc"	4
2004-05-28	04:27:10.0	-53.44	-73.19	30	"3.3"	"Mc"	4
2004-06-01	15:14:28.1	-54.69	-69.50	12	"1.6"	"Mc"	4
2004-06-02	01:00:59.9	-54.64	-69.73	31	"1.5"	"Mc"	4
2004-06-11	17:40:47.7	-56.33	-71.79	30	"3.1"	"Mc"	4
2004-06-18	10:51:06.0	-55.92	-68.79	29	3	"Mc"	4
2004-06-19	07:14:34.2	-53.96	-62.18	22	"3.7"	"Mc"	4
2004-06-19	16:29:47.5	-54.83	-69.91	29	"1.8"	"Mc"	4
2004-06-22	00:18:28.5	-54.79	-70.08	15	"2.1"	"Mc"	4
2004-07-26	"1820 37	2"	-53.79	-60.27	29	"3.4"	"Mc"
2004-07-30	18:41:05.8	-54.61	-67.78	22	"1.6"	"Mc"	4
2004-08-01	01:21:00.7	-53.71	-62.36	31	"3.6"	"Mc"	4
2004-08-18	21:38:41.3	-53.47	-57.79	30	"3.8"	"Mc"	4
2004-08-19	03:09:21.5	-54.63	-68.39	12	"1.5"	"Mc"	4
2004-08-30	16:07:55.5	-54.61	-67.78	30	"4.5"	"Mc"	4
2004-08-31	01:39:47.8	-49.64	-72.79	29	"3.9"	"Mc"	4
2004-08-31	07:30:08.5	-50.39	-72.38	22	4	"Mc"	4
2004-09-04	06:09:14.9	-51.26	-75.27	37	"4.1"	"Mc"	4
2004-09-04	10:45:28.4	-54.64	-68.62	30	"1.4"	"Mc"	4
2004-09-05	10:25:57.2	-57.26	-62.38	29	"3.3"	"Mc"	4
2004-09-07	16:18:38.6	-50.41	-73.84	31	"4.4"	"Mc"	4
2004-09-07	18:32:45.0	-49.69	-72.05	30	"3.6"	"Mc"	4
2004-09-11	02:09:39.7	-54.56	-67.78	22	"1.5"	"Mc"	4
2004-10-01	08:11:29.1	-54.32	-69.94	30	2	"Mc"	4
2004-10-02	17:51:37.3	-54.68	-66.68	12	"0.2"	"Mc"	4
2004-10-03	00:44:23.6	-54.81	-70.28	29	"1.9"	"Mc"	4
2004-10-04	12:29:16.6	-55.97	-72.38	26	"2.4"	"Mc"	4
2004-10-04	13:31:44.6	-54.08	-70.29	29	"1.9"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2004-10-04	19:26:04.5	-54.93	-69.04	4	"1.5"	"Mc"	4
2004-10-04	23:21:43.4	-57.98	-71.12	15	"2.6"	"Mc"	4
2004-10-05	04:26:42.7	-54.73	-69.12	11	"1.8"	"Mc"	4
2004-10-05	12:25:34.1	-50.46	-72.89	29	"3.5"	"Mc"	4
2004-10-05	13:48:33.9	-54.68	-67.55	12	"1.3"	"Mc"	4
2004-10-05	17:14:06.0	-54.65	-70.42	31	"1.5"	"Mc"	4
2004-10-05	18:25:27.9	-54.67	-67.61	7	"1.1"	"Mc"	4
2004-10-05	21:03:26.5	-54.69	-67.69	16	"0.7"	"Mc"	4
2004-10-06	11:32:11.4	-54.66	-67.62	7	"1.2"	"Mc"	4
2004-10-07	03:57:12.5	-54.79	-70.07	29	"1.4"	"Mc"	4
2004-10-07	16:52:09.0	-54.89	-70.25	22	"1.7"	"Mc"	4
2004-10-09	06:34:42.7	-54.59	-68.18	5	"0.4"	"Mc"	4
2004-10-09	14:37:06.5	-54.61	-68.17	51	"1.3"	"Mc"	4
2004-10-09	15:46:55.1	-54.53	-67.94	12	"0.8"	"Mc"	4
2004-10-13	02:13:42.3	-54.81	-69.03	50	"2.9"	"Mc"	4
2004-10-14	03:08:57.2	-50.51	-72.97	30	"3.7"	"Mc"	4
2004-10-18	14:26:12.9	-54.48	-66.51	22	"0.6"	"Mc"	4
2004-10-22	18:05:40.7	-54.33	-70.78	30	"1.8"	"Mc"	4
2004-10-22	18:15:37.5	-54.61	-71.24	22	"2.3"	"Mc"	4
2004-10-29	06:38:37.4	-54.6	-67.82	12	"1.7"	"Mc"	4
2004-11-02	22:47:33.0	-54.47	-68.17	0	"2.3"	"Mc"	4
2004-11-03	03:40:54.0	-54.59	-69.13	1	2	"Mc"	4
2004-11-04	23:25:10.0	-51.36	-75.01	0	"3.5"	"Mc"	4
2004-11-05	01:16:45.2	-52.15	-73.78	30	"3.6"	"Mc"	4
2004-11-07	02:44:48.4	-55.21	-56.50	0	"3.9"	"Mc"	4
2004-11-11	08:02:33.7	-54.22	-62.84	4	3	"Mc"	4
2004-11-13	13:24:12.0	-51.41	-72.65	31	"3.8"	"Mc"	4
2004-11-14	22:07:23.3	-51.99	-74.02	30	"3.4"	"Mc"	4
2004-11-15	18:05:30.7	-54.57	-67.81	22	"0.8"	"Mc"	4
2004-11-19	07:53:32.9	-57.49	-73.74	27	"3.2"	"Mc"	4
2004-11-19	15:48:03.8	-52.28	-74.33	30	"3.4"	"Mc"	4
2004-11-29	12:52:09.7	-54.61	-68.24	22	"1.6"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2004-12-05	11:05:13.5	-54.15	-70.71	31	"2.1"	"Mc"	4
2004-12-10	00:54:05.8	-53.47	-67.28	14	"1.8"	"Mc"	4
2004-12-10	04:13:49.7	-54.69	-70.03	30	"1.8"	"Mc"	4
2004-12-14	16:30:05.3	-53.65	-70.05	30	"1.8"	"Mc"	4
2004-12-14	22:42:34.4	-57.47	-66.25	30	"3.1"	"Mc"	4
2004-12-17	11:06:37.0	-51.58	-73.75	30	"4.1"	"Mc"	4
2005-01-12	19:29:46.3	-54.57	-66.40	54	"0.9"	"Mc"	4
2005-01-18	15:07:10.3	-54.79	-69.93	22	"2.4"	"Mc"	4
2005-01-18	18:35:38.4	-54.63	-68.12	17	"2.2"	"Mc"	4
2005-01-27	15:13:05.3	-53.39	-61.02	0	"4.3"	"Mc"	4
2005-01-27	22:14:23.2	-56.98	-67.69	30	"3.2"	"Mc"	4
2005-01-29	14:55:12.2	-54.73	-69.93	30	"2.7"	"Mc"	4
2005-02-11	02:31:06.8	-54.57	-66.80	22	"2.1"	"Mc"	4
2005-02-17	10:39:21.7	-55.32	-70.82	29	"2.9"	"Mc"	4
2005-02-18	07:31:09.6	-54.84	-68.01	22	"0.8"	"Mc"	4
2005-02-23	15:14:09.0	-54.08	-71.97	22	"3.8"	"Mc"	4
2005-02-28	13:34:09.7	-53.64	-62.31	21	3	"Mc"	4
2005-02-28	14:37:41.5	-54.57	-68.20	22	"1.6"	"Mc"	4
2005-03-13	22:53:41.4	-54.63	-69.87	22	"2.6"	"Mc"	4
2005-03-22	08:07:58.1	-55.23	-68.09	22	"2.5"	"Mc"	4
2005-03-26	08:50:47.4	-57.32	-63.77	1	"3.9"	"Mc"	4
2005-04-02	19:54:57.6	-56.15	-70.77	12	"2.8"	"Mc"	4
2005-04-03	21:14:50.6	-54.79	-69.49	22	"2.2"	"Mc"	4
2005-04-05	15:39:13.2	-55.12	-74.06	30	"3.3"	"Mc"	4
2005-04-07	20:23:36.4	-56.44	-71.66	6	"2.8"	"Mc"	4
2005-04-24	19:58:11.6	-54.23	-66.65	22	"1.3"	"Mc"	4
2005-04-25	12:26:50.1	-54.50	-64.80	29	"2.3"	"Mc"	4
2005-04-28	00:13:58.5	-57.18	-66.24	11	"2.7"	"Mc"	4
2005-05-07	01:11:03.7	-54.57	-69.22	19	"1.8"	"Mc"	4
2005-05-08	13:51:03.6	-54.55	-68.14	22	"1.1"	"Mc"	4
2005-05-08	23:10:26.8	-54.58	-70.02	11	"1.8"	"Mc"	4
2005-05-09	15:10:58.7	-53.70	-70.03	0	"2.2"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2005-05-11	10:33:27.8	-55.51	-72.62	15	"3.5"	"Mc"	4
2005-05-11	15:03:04.6	-55.45	-72.67	22	"3.2"	"Mc"	4
2005-05-15	13:43:35.5	-55.06	-66.06	2	"1.8"	"Mc"	4
2005-05-19	14:44:12.5	-54.23	-64.26	25	"2.7"	"Mc"	4
2005-06-02	23:46:27.3	-53.45	-70.14	29	"2.8"	"Mc"	4
2005-06-07	17:19:45.4	-53.04	-51.44	32	"4.7"	"Mc"	4
2005-06-08	10:21:59.8	-55.92	-73.51	20	"2.8"	"Mc"	4
2005-06-13	03:57:55.4	-54.64	-70.17	30	"1.7"	"Mc"	4
2005-06-14	07:56:13.7	-54.58	-64.02	1	"2.7"	"Mc"	4
2005-06-15	19:54:51.6	-53.91	-70.87	15	"3.6"	"Mc"	4
2005-06-18	17:00:02.0	-55.16	-62.13	2	"3.3"	"Mc"	4
2005-06-19	23:41:52.3	-54.35	-64.92	22	"2.5"	"Mc"	4
2005-06-21	09:49:09.6	-54.59	-65.39	25	"2.6"	"Mc"	4
2005-06-28	17:46:53.4	-51.11	-74.01	30	"4.3"	"Mc"	4
2005-06-29	17:47:31.6	-54.59	-67.43	25	"0.8"	"Mc"	4
2005-07-08	10:45:33.3	-54.05	-63.30	31	"2.7"	"Mc"	4
2005-07-11	00:27:47.1	-52.40	-70.45	29	"2.6"	"Mc"	4
2005-07-11	00:43:51.1	-54.27	-65.17	30	"2.4"	"Mc"	4
2005-07-25	19:50:01.2	-54.60	-67.21	22		"Mc"	4
2005-07-25	23:51:59.8	-57.18	-67.50	10	"3.3"	"Mc"	4
2005-08-07	05:21:18.1	-54.62	-66.91	6	"2.2"	"Mc"	4
2005-08-08	23:00:23.9	-54.54	-70.16	25	"2.4"	"Mc"	4
2005-08-14	23:38:25.5	-54.55	-68.08	22	"0.4"	"Mc"	4
2005-08-16	01:56:54.9	-55.63	-68.08	117	2	"Mc"	4
2005-08-21	09:12:39.4	-56.09	-62.91	13	"2.7"	"Mc"	4
2005-08-21	19:06:25.9	-51.29	-74.12	29	"4.1"	"Mc"	4
2005-08-22	01:52:02.5	-56.51	-70.27	30	3	"Mc"	4
2005-08-22	12:01:43.1	-54.60	-69.43	7	"1.7"	"Mc"	4
2005-08-24	00:12:11.7	-54.15	-71.51	30	"2.5"	"Mc"	4
2005-08-25	15:05:49.1	-52.38	-76.91	20	"4.2"	"Mc"	4
2005-08-30	19:29:43.3	-54.71	-66.91	22		"Mc"	4
2005-09-01	02:01:09.0	-54.76	-69.71	22	"2.1"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2005-09-01	07:54:16.0	-54.74	-69.43	22	"1.9"	"Mc"	4
2005-09-01	08:36:44.4	-54.76	-70.41	22	"2.2"	"Mc"	4
2005-09-03	03:08:13.6	-54.53	-69.79	22	"2.2"	"Mc"	4
2005-09-04	07:12:26.7	-53.14	-73.77	22	"3.6"	"Mc"	4
2005-09-04	11:22:17.1	-54.95	-70.86	19	"2.2"	"Mc"	4
2005-09-06	09:10:53.9	-54.53	-71.16	21	"2.6"	"Mc"	4
2005-09-06	12:28:22.9	-54.57	-70.81	3	"1.6"	"Mc"	4
2005-09-18	08:23:43.1	-54.34	-64.31	28	"2.6"	"Mc"	4
2005-09-18	13:39:51.5	-54.67	-69.38	11	"1.9"	"Mc"	4
2005-09-28	09:42:08.2	-54.73	-69.61	22	"1.8"	"Mc"	4
2005-09-28	10:40:48.7	-54.89	-69.66	23	"1.8"	"Mc"	4
2005-09-29	06:38:54.4	-54.67	-69.67	27	"1.8"	"Mc"	4
2005-09-29	12:04:11.6	-54.75	-69.62	29	"1.7"	"Mc"	4
2005-10-09	02:48:57.7	-51.85	-73.42	15	"3.7"	"Mc"	4
2005-10-10	19:33:18.1	-55.63	-71.58	8	"2.9"	"Mc"	4
2005-10-16	08:16:11.5	-56.42	-71.97	5	"2.6"	"Mc"	4
2005-10-27	11:09:13.4	-54.90	-67.49	12	"0.8"	"Mc"	4
2005-11-02	19:16:55.2	-53.65	-57.53	16	"4.6"	"Mc"	4
2005-11-06	13:55:08.3	-54.57	-67.30	23	"0.7"	"Mc"	4
2005-11-08	03:39:17.3	-54.73	-68.83	19	"1.6"	"Mc"	4
2005-11-09	11:40:56.9	-55.31	-75.21	0	3	"Mc"	4
2005-11-09	16:55:04.6	-54.46	-69.69	27	"1.6"	"Mc"	4
2005-11-11	21:37:23.0	-52.97	-54.52	6	"4.2"	"Mc"	4
2005-11-15	06:22:21.4	-54.94	-67.13	22	"0.9"	"Mc"	4
2005-11-17	10:35:47.7	-54.67	-69.38	12	"1.8"	"Mc"	4
2005-11-17	14:19:16.6	-54.70	-69.83	29	"1.9"	"Mc"	4
2005-11-18	00:43:13.0	-54.69	-69.19	9	"1.8"	"Mc"	4
2005-11-21	01:15:08.9	-54.71	-68.10	14	"0.4"	"Mc"	4
2005-11-23	02:40:48.3	-54.70	-70.16	22	"2.6"	"Mc"	4
2005-11-23	11:50:57.3	-56.06	-69.13	40	"2.7"	"Mc"	4
2005-11-23	20:55:52.3	-54.22	-64.22	25	"2.7"	"Mc"	4
2005-11-24	06:14:53.1	-54.99	-67.23	22		"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2005-11-24	20:01:32.1	-54.72	-69.71	24	"1.3"	"Mc"	4
2005-11-25	22:11:34.7	-53.62	-72.11	22		"Mc"	4
2005-11-27	07:01:09.4	-56.77	-69.15	23		"Mc"	4
2005-11-27	14:24:52.2	-53.81	-62.41	22		"Mc"	4
2005-11-28	17:23:01.3	-54.28	-71.33	29		"Mc"	4
2005-11-29	08:48:18.4	-54.58	-66.4	19	"2.1"	"Mc"	4
2005-12-02	13:13:42.0	-55.22	-67.63	7	"0.8"	"Mc"	4
2005-12-03	03:59:55.0	-53.76	-61.67	31	"3.1"	"Mc"	4
2005-12-03	07:17:43.7	-57.15	-67.96	22	"2.5"	"Mc"	4
2005-12-04	03:58:55.0	-57.62	-71.44	30	"3.2"	"Mc"	4
2005-12-06	10:26:09.0	-55.11	-67.08	22	"0.4"	"Mc"	4
2005-12-08	15:19:27.6	-55.04	-67.93	12	1	"Mc"	4
2005-12-09	06:02:02.8	-54.93	-69.83	32	"2.1"	"Mc"	4
2005-12-12	22:05:56.1	-56.84	-73.08	10	"4.1"	"Mc"	4
2005-12-26	23:39:57.9	-57.86	-65.18	0	"3.7"	"Mc"	4
2005-12-29	15:56:38.0	-54.84	-67.27	27	"1.5"	"Mc"	4
2005-12-30	04:03:40.6	-54.09	-67.63	22	0	"Mc"	4
2006-01-01	00:10:20.0	-53.75	-73.81	12	"3.4"	"Mc"	4
2006-01-09	17:50:47.6	-54.08	-64.25	22	"2.6"	"Mc"	4
2006-01-09	23:56:48.8	-54.41	-70.1	25	"3.0"	"Mc"	4
2006-01-10	00:24:21.4	-54.31	-69.33	10	"2.2"	"Mc"	4
2006-01-10	03:38:06.6	-54.31	-69.62	12	"2.4"	"Mc"	4
2006-01-18	08:10:13.2	-54.26	-69.52	10	"2.8"	"Mc"	4
2006-01-18	14:34:40.9	-54.73	-62.91	36	"3.1"	"Mc"	4
2006-01-21	01:45:22.3	-54.58	-67.30	24	"1.2"	"Mc"	4
2006-01-29	13:14:47.1	-55.00	-66.88	10	"2.6"	"Mc"	4
2006-02-05	02:24:58.8	-54.66	-67.21	11	"0.7"	"Mc"	4
2006-02-05	17:10:14.7	-54.16	-64.1	6	"2.2"	"Mc"	4
2006-02-05	20:36:11.5	-54.92	-66.95	8	"1.4"	"Mc"	4
2006-02-06	05:18:19.0	-56.18	-75.16	21	"3.5"	"Mc"	4
2006-02-06	11:01:17.6	-56.05	-75.07	18	"3.6"	"Mc"	4
2006-02-10	16:38:54.2	-54.71	-69.83	18	"1.7"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2006-02-24	03:09:04.2	-54.37	-70.08	13	"2.5"	"Mc"	4
2006-03-02	11:09:21.7	-54.67	-67.41	17	"1.2"	"Mc"	4
2006-03-12	00:20:15.3	-54.74	-69.92	16	"1.9"	"Mc"	4
2006-03-18	15:05:33.6	-54.3	-71.76	20	"3.0"	"Mc"	4
2006-03-22	20:31:11.9	-54.65	-69.72	22	"1.5"	"Mc"	4
2006-03-23	22:13:13.0	-58.53	-62.9	15	"3.1"	"Mc"	4
2006-03-24	12:56:49.0	-54.83	-66.99	24	"2.8"	"Mc"	4
2006-04-01	10:46:38.1	-56.37	-69.14	10	"2.1"	"Mc"	4
2006-04-04	03:20:33.0	-54.54	-70.27	13	"1.9"	"Mc"	4
2006-04-04	08:13:48.5	-56.76	-69.85	11	"2.5"	"Mc"	4
2006-04-16	23:03:33.3	-54.46	-70.49	15	"2.2"	"Mc"	4
2006-04-18	09:52:16.7	-54.59	-67.25	13	"0.4"	"Mc"	4
2006-04-19	17:08:20.5	-56.38	-69.55	27	"2.3"	"Mc"	4
2006-05-01	19:56:51.8	-54.72	-69.92	8	"2.4"	"Mc"	4
2006-05-03	05:33:57.1	-54.73	-67.24	10	"0.6"	"Mc"	4
2006-05-13	04:39:35.8	-56.93	-66.24	18	"2.5"	"Mc"	4
2006-05-15	21:43:35.3	-55.75	-68.58	16	"1.7"	"Mc"	4
2006-05-19	14:27:54.1	-54.59	-65.98	12	"1.7"	"Mc"	4
2006-05-20	08:45:02.4	-54.80	-69.78	8	"1.7"	"Mc"	4
2006-05-24	17:52:49.0	-54.69	-69.29	12	"1.7"	"Mc"	4
2006-06-03	10:47:09.6	-54.24	-63.66	20	"2.3"	"Mc"	4
2006-06-04	22:17:02.2	-57.36	-65.56	36	"3.0"	"Mc"	4
2006-06-07	20:03:48.2	-59.04	-72.36	45	"3.5"	"Mc"	4
2006-06-13	22:41:29.7	-54.52	-67.04	9	"1.5"	"Mc"	4
2006-06-16	20:04:39.2	-53.55	-71.34	16	"2.8"	"Mc"	4
2006-06-24	13:45:28.8	-54.58	-69.37	4	"2.0"	"Mc"	4
2006-06-26	08:32:36.9	-54.69	-69.95	23	"2.3"	"Mc"	4
2006-06-29	22:02:52.1	-54.69	-68.24	12	"2.9"	"Mc"	4
2006-06-29	23:14:49.1	-54.64	-68.52	23	"1.8"	"Mc"	4
2006-07-01	14:03:52.9	-54.68	-68.15	23	"1.9"	"Mc"	4
2006-07-03	02:18:53.6	-54.60	-67.48	19	"2.0"	"Mc"	4
2006-07-03	13:34:03.3	-54.68	-68.16	22	"1.4"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2006-07-04	02:08:52.1	-54.65	-68.15	20	"1.7"	"Mc"	4
2006-07-10	16:33:42.9	-52.60	-73.74	10	"3.2"	"Mc"	4
2006-07-16	05:13:43.1	-54.10	-72.77	48	"2.4"	"Mc"	4
2006-07-17	12:04:17.0	-55.18	-69.78	27	"2.1"	"Mc"	4
2006-07-18	09:45:09.2	-54.84	-68.45	19	"2.0"	"Mc"	4
2006-07-18	16:42:32.2	-54.45	-70.38	1	"3.0"	"Mc"	4
2006-07-20	03:09:51.1	-54.65	-67.94	28	"2.1"	"Mc"	4
2006-07-23	03:04:07.2	-57.01	-67.47	15	"2.8"	"Mc"	4
2006-07-25	03:31:15.1	-55.85	-67.87	21	"2.0"	"Mc"	4
2006-08-05	08:11:53.3	-54.98	-63.42	9	"2.4"	"Mc"	4
2006-08-13	01:56:38.5	-56.30	-69.68	22	"2.2"	"Mc"	4
2006-08-16	00:43:26.2	-57.38	-69.11	12	"2.9"	"Mc"	4
2006-08-17	19:36:20.6	-54.74	-67.58	4	"0.8"	"Mc"	4
2006-08-18	08:25:19.2	-54.64	-70.34	29	"2.1"	"Mc"	4
2006-08-26	00:31:50.8	-54.51	-68.59	8	"2.1"	"Mc"	4
2006-08-26	05:06:12.6	-54.60	-68.43	6	"2.4"	"Mc"	4
2006-08-26	09:16:07.2	-54.58	-66.91	12	"1.8"	"Mc"	4
2006-08-26	09:58:45.3	-54.60	-66.92	18	"1.4"	"Mc"	4
2006-08-26	13:19:25.7	-54.56	-66.84	16	"1.6"	"Mc"	4
2006-08-30	05:02:48.0	-59.98	-70.10	12	"3.9"	"Mc"	4
2006-08-31	03:17:18.7	-54.53	-67.18	12	"2.2"	"Mc"	4
2006-09-16	09:14:01.5	-54.09	-63.66	50	"3.5"	"Mc"	4
2006-09-16	16:52:18.0	-54.66	-68.70	9	"2.4"	"Mc"	4
2006-09-18	01:33:46.2	-54.76	-73.21	28	"3.2"	"Mc"	4
2006-09-18	02:14:37.1	-56.42	-69.34	25	"2.6"	"Mc"	4
2006-09-23	05:21:53.8	-54.75	-69.88	20	"2.1"	"Mc"	4
2006-09-26	06:03:36.0	-54.68	-68.22	7	"1.7"	"Mc"	4
2006-09-29	21:36:38.3	-56.19	-70.63	21	"3.0"	"Mc"	4
2006-09-30	08:53:42.0	-54.52	-67.18	4	"1.2"	"Mc"	4
2006-09-30	22:28:28.1	-56.86	-69.81	26	"2.7"	"Mc"	4
2006-09-30	23:38:22.4	-54.46	-67.60	8	"0.5"	"Mc"	4
2006-10-03	07:46:05.1	-53.68	-59.54	28	"3.8"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2006-10-09	00:52:01.4	-54.59	-67.12	6	"0.9"	"Mc"	4
2006-10-09	01:39:28.9	-54.67	-67.36	20	"2.0"	"Mc"	4
2006-10-09	02:16:07.7	-54.57	-67.09	6	"1.1"	"Mc"	4
2006-10-09	02:38:47.5	-54.58	-67.55	6	"0.3"	"Mc"	4
2006-10-09	02:48:34.0	-54.61	-67.60	4	"0.9"	"Mc"	4
2006-10-09	03:10:27.0	-54.60	-67.08	4	"1.2"	"Mc"	4
2006-10-09	07:20:55.2	-54.54	-67.53	4	"0.5"	"Mc"	4
2006-10-10	17:56:17.5	-54.63	-68.14	12	"2.1"	"Mc"	4
2006-10-10	20:31:24.1	-50.78	-73.27	9	"3.5"	"Mc"	4
2006-10-11	04:15:19.0	-52.13	-73.12	8	"3.3"	"Mc"	4
2006-10-20	06:00:52.0	-55.90	-63.52	19	"2.7"	"Mc"	4
2006-10-21	07:15:20.3	-54.57	-68.17	15	"0.5"	"Mc"	4
2006-10-27	05:47:54.1	-54.67	-70.02	8	"2.0"	"Mc"	4
2006-11-01	08:14:13.8	-54.69	-67.31	14	"1.9"	"Mc"	4
2006-11-13	12:16:39.5	-54.70	-69.99	28	"1.4"	"Mc"	4
2006-11-23	08:47:44.2	-54.49	-69.38	3	"2.0"	"Mc"	4
2006-11-24	01:05:31.3	-53.32	-61.54	1	"3.0"	"Mc"	4
2006-11-24	23:31:09.1	-54.56	-61.15	2	"3.1"	"Mc"	4
2006-11-26	23:33:57.5	-52.22	-74.30	11		"Mc"	4
2006-11-30	04:29:49.8	-55.00	-68.23	12	"1.9"	"Mc"	4
2006-11-30	11:12:17.1	-53.8	-62.59	30	"2.7"	"Mc"	4
2006-12-01	03:32:18.0	-54.52	-57.83	21	"3.5"	"Mc"	4
2006-12-03	06:08:46.3	-56.29	-69.28	12	"2.3"	"Mc"	4
2006-12-05	06:47:26.2	-58.52	-61.07	13	"4.3"	"Mc"	4
2006-12-13	04:43:05.5	-54.64	-68.16	9	"0.5"	"Mc"	4
2006-12-16	13:54:17.7	-54.56	-69.93	1	"1.5"	"Mc"	4
2006-12-16	18:53:12.3	-54.62	-67.44	13	"1.2"	"Mc"	4
2006-12-17	05:52:29.9	-50.51	-73.33	21	"3.7"	"Mc"	4
2006-12-18	13:33:30.0	-54.86	-70.00	0	"1.8"	"Mc"	4
2006-12-18	18:06:59.8	-55.14	-67.77	6	"1.1"	"Mc"	4
2006-12-18	18:47:51.8	-54.93	-69.36	4	"1.2"	"Mc"	4
2006-12-20	13:43:09.3	-55.20	-68.19	2	"1.7"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2006-12-21	01:15:57.4	-54.15	-65.48	9	"1.6"	"Mc"	4
2006-12-21	02:25:33.3	-54.43	-70.16	9	"2.1"	"Mc"	4
2006-12-21	04:29:10.5	-54.62	-69.27	5	"1.6"	"Mc"	4
2006-12-21	16:05:28.6	-54.69	-70.34	15	"1.8"	"Mc"	4
2006-12-21	20:16:25.0	-54.62	-68.21	24	"1.2"	"Mc"	4
2006-12-23	01:32:36.0	-54.63	-70.36	31	"1.8"	"Mc"	4
2006-12-23	11:55:40.4	-54.22	-67.15	20		"Mc"	4
2006-12-24	05:30:04.7	-53.47	-61.84	19	"3.2"	"Mc"	4
2006-12-24	07:52:25.5	-54.81	-70.17	1	"1.9"	"Mc"	4
2006-12-25	11:38:54.2	-54.57	-69.88	10	"1.5"	"Mc"	4
2006-12-25	17:59:57.3	-54.53	-70.81	27	"1.6"	"Mc"	4
2006-12-25	19:21:06.8	-54.48	-70.01	1	"1.3"	"Mc"	4
2006-12-27	16:56:29.7	-54.45	-70.32	16	"1.6"	"Mc"	4
2006-12-29	04:03:11.5	-54.47	-70.39	16	"1.6"	"Mc"	4
2006-12-29	08:09:41.3	-54.57	-68.33	0	"0.6"	"Mc"	4
2006-12-31	13:04:38.4	-54.38	-70.12	3	"1.6"	"Mc"	4
2007-01-01	06:38:38.1	-54.43	-64.99	23	"1.7"	"Mc"	4
2007-01-01	08:35:29.4	-54.89	-69.75	8	"1.4"	"Mc"	4
2007-01-04	01:30:58.6	-54.86	-70.12	0	"1.4"	"Mc"	4
2007-01-07	05:04:56.5	-54.69	-69.76	9	"1.5"	"Mc"	4
2007-01-07	05:39:04.1	-54.65	-69.98	2	"1.2"	"Mc"	4
2007-01-08	10:06:58.7	-54.68	-69.06	4	"1.4"	"Mc"	4
2007-01-08	11:21:49.6	-56.57	-69.53	16	"2.5"	"Mc"	4
2007-01-08	14:16:56.3	-54.74	-70.54	22	"2.2"	"Mc"	4
2007-01-08	23:25:38.7	-54.70	-70.08	1	"2.1"	"Mc"	4
2007-01-09	06:09:51.5	-54.75	-69.14	4	"1.5"	"Mc"	4
2007-01-09	06:57:21.8	-54.45	-69.93	3	"1.5"	"Mc"	4
2007-01-09	08:50:12.0	-55.78	-71.39	14	"3.1"	"Mc"	4
2007-01-13	01:24:50.8	-54.58	-69.98	2	"1.8"	"Mc"	4
2007-01-16	17:32:27.6	-54.41	-70.23	6	"1.3"	"Mc"	4
2007-01-17	15:10:49.5	-54.59	-68.16	5	"0.4"	"Mc"	4
2007-01-17	18:34:17.4	-57.91	-64.80	11	"4.5"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2007-01-19	02:27:55.5	-55.00	-69.37	3	"1.7"	"Mc"	4
2007-01-20	09:21:49.5	-57.09	-66.73	6	"2.6"	"Mc"	4
2007-01-20	09:40:17.5	-54.68	-70.09	0	"2.2"	"Mc"	4
2007-01-20	15:42:58.9	-55.51	-68.07	11	"1.8"	"Mc"	4
2007-01-20	15:53:16.8	-57.79	-74.47	9	"3.4"	"Mc"	4
2007-01-20	21:36:05.1	-55.64	-71.65	7	"2.3"	"Mc"	4
2007-01-21	23:32:45.6	-54.37	-69.98	3	"1.7"	"Mc"	4
2007-01-21	23:57:05.1	-54.83	-70.39	18	"1.5"	"Mc"	4
2007-01-22	00:04:43.7	-54.70	-69.89	3	"1.3"	"Mc"	4
2007-01-22	12:16:23.5	-54.56	-69.40	2	"1.5"	"Mc"	4
2007-01-24	01:06:03.5	-57.38	-68.40	1	"2.8"	"Mc"	4
2007-01-25	00:55:43.3	-54.62	-68.11	9	"0.2"	"Mc"	4
2007-01-25	03:14:40.4	-57.31	-67.48	0	"2.8"	"Mc"	4
2007-01-26	05:30:53.4	-54.72	-70.22	17	"1.7"	"Mc"	4
2007-01-26	06:12:54.5	-54.72	-69.36	6	"1.1"	"Mc"	4
2007-01-26	14:16:55.1	-54.54	-70.15	0	"1.6"	"Mc"	4
2007-01-29	15:16:32.1	-54.55	-67.94	6	"0.7"	"Mc"	4
2007-01-30	06:15:46.7	-54.69	-70.28	11	"1.7"	"Mc"	4
2007-01-31	13:17:37.7	-54.78	-69.53	3	"3.1"	"Mc"	4
2007-02-05	08:02:53.2	-54.53	-69.78	0	"0.6"	"Mc"	4
2007-02-05	08:38:04.0	-54.76	-69.33	0	"1.6"	"Mc"	4
2007-02-05	11:10:42.8	-54.64	-69.92	0	"1.4"	"Mc"	4
2007-02-05	12:10:29.0	-54.38	-69.40	8	"1.8"	"Mc"	4
2007-02-10	18:05:29.1	-54.48	-68.18	24	"1.4"	"Mc"	4
2007-02-17	14:00:29.6	-54.77	-68.28	9	"0.6"	"Mc"	4
2007-02-17	14:59:19.5	-59.17	-62.74	3	"3.5"	"Mc"	4
2007-02-17	17:50:12.8	-53.85	-63.29	0	"2.5"	"Mc"	4
2007-02-18	07:29:16.4	-56.98	-59.58	4	"3.0"	"Mc"	4
2007-02-19	09:15:46.7	-55.23	-67.25	1	"1.4"	"Mc"	4
2007-02-21	10:00:41.2	-57.99	-70.54	25	"2.9"	"Mc"	4
2007-02-27	00:35:55.3	-55.29	-67.34	0	"1.8"	"Mc"	4
2007-03-01	09:04:41.4	-54.56	-62.74	10	"2.4"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2007-03-02	05:51:53.9	-54.31	-64.32	9	"2.6"	"Mc"	4
2007-03-02	13:12:15.1	-54.28	-70.22	31	"3.1"	"Mc"	4
2007-03-05	00:13:40.1	-56.89	-71.16	0	"2.8"	"Mc"	4
2007-03-05	23:56:37.3	-57.89	-63.08	2	"3.2"	"Mc"	4
2007-03-07	21:07:03.7	-54.60	-68.22	6	"1.2"	"Mc"	4
2007-03-07	21:44:13.1	-54.31	-65.42	4	"2.4"	"Mc"	4
2007-03-08	20:27:33.6	-54.57	-69.50	6	"1.9"	"Mc"	4
2007-03-10	05:51:42.9	-54.7	-70.26	12	"1.9"	"Mc"	4
2007-03-10	22:53:10.9	-54.66	-70.11	5	"1.7"	"Mc"	4
2007-03-11	02:21:05.7	-54.72	-69.96	6	"1.4"	"Mc"	4
2007-03-13	06:34:45.1	-54.42	-70.04	12	"1.7"	"Mc"	4
2007-03-14	05:36:39.7	-54.28	-71.55	10	"2.6"	"Mc"	4
2007-03-14	07:40:19.2	-54.44	-70.07	23	"1.9"	"Mc"	4
2007-03-17	15:32:02.4	-54.61	-68.21	23	"0.5"	"Mc"	4
2007-03-22	11:55:54.9	-54.88	-69.02	11	"1.9"	"Mc"	4
2007-03-23	23:47:19.3	-54.86	-69.30	2	"2.1"	"Mc"	4
2007-03-25	10:17:16.6	-54.70	-67.48	12	"0.8"	"Mc"	4
2007-03-27	01:01:25.7	-56.90	-68.59	7	"2.8"	"Mc"	4
2007-03-29	21:58:21.2	-54.56	-68.10	6	"0.5"	"Mc"	4
2007-03-29	22:56:56.2	-54.52	-68.44	2	"0.8"	"Mc"	4
2007-03-31	21:00:19.9	-54.64	-68.26	21	"1.0"	"Mc"	4
2007-04-02	00:27:40.8	-54.44	-68.34	28	"0.7"	"Mc"	4
2007-04-05	01:34:47.9	-54.79	-69.02	12	"2.2"	"Mc"	4
2007-04-06	07:35:26.4	-54.40	-71.23	4	"2.3"	"Mc"	4
2007-04-07	04:45:43.3	-55.19	-69.30	0	"2.2"	"Mc"	4
2007-04-07	09:27:38.6	-55.01	-68.79	19	"2.4"	"Mc"	4
2007-04-08	05:21:19.0	-54.68	-69.24	13	"1.7"	"Mc"	4
2007-04-11	11:55:50.5	-56.74	-70.58	6	"2.9"	"Mc"	4
2007-04-15	15:12:52.6	-54.49	-69.40	9	"1.3"	"Mc"	4
2007-04-15	15:37:37.0	-54.49	-67.37	8	"1.4"	"Mc"	4
2007-04-17	04:33:42.2	-54.74	-69.32	11	"2.4"	"Mc"	4
2007-04-18	05:42:34.5	-54.92	-66.90	7	"1.8"	"Mc"	4

<i>Fecha</i>	<i>Hora</i>	<i>Latitud(°)</i>	<i>Longitud(°)</i>	<i>Prof. (km)</i>	<i>Magnitud</i>	<i>Tipo</i>	<i>Fuente</i>
2007-04-22	15:10:34.4	-54.63	-67.94	10	"1.0"	"Mc"	4
2007-04-22	15:35:03.4	-54.71	-67.98	7	"0.5"	"Mc"	4
2007-05-04	18:10:33.1	-57.34	-65.74	7	"3.4"	"Mc"	4
2007-05-05	16:05:20.9	-55.17	-68.14	31	"1.6"	"Mc"	4
2007-05-12	16:13:15.9	-53.71	-64.00	12	"2.1"	"Mc"	4
2007-05-18	04:53:18.9	-54.37	-70.19	15	"1.5"	"Mc"	4
2007-05-19	04:16:39.5	-54.63	-69.57	2	"1.2"	"Mc"	4
2007-05-19	19:21:33.4	-54.57	-68.11	6	"0.6"	"Mc"	4
2007-06-14	08:19:37.5	-54.71	-68.40	6	"2.0"	"Mc"	4
2007-06-27	01:02:52.4	-54.60	-68.09	6	"0.6"	"Mc"	4
2007-06-27	02:02:52.4	-54.61	-68.09	6	"0.6"	"Mc"	4
2007-07-14	06:24:16.1	-54.57	-68.26	6	"0.3"	"Mc"	4
2007-07-18	22:15:51.4	-54.87	-69.34	5	"1.8"	"Mc"	4
2007-07-29	15:13:59.2	-55.24	-61.92	2	"3.4"	"Mc"	4

(*) "*M Lee*" es la magnitud calculada con la fórmula empírica propuesta por Lee et al. (1965) definida como: $M = -0,087 + 2 * \log(t) + 0,0035 D$ siendo t la duración de la señal en seg. y D la distancia epicentral en km.

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