

***Complemento al Catálogo Sismológico de Referencia para Tierra del Fuego
2017***

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Eventos sísmicos locales y regionales

Procesamiento v 1.0

Período: agosto 2007- diciembre 2016

Los parámetros hipocentrales (Latitud, Longitud, Profundidad, Hora origen y Magnitud) se determinaron usando el código HYPOCENTER (Lienert et al., 1986; Lienert y Havskov, 1995) incluido en el paquete SEISAN (Havskov y Ottemoller, 1999).

La latitud, longitud, hora origen y profundidad del foco se obtuvieron mediante el picado de fases sísmicas P y S, y la magnitud se obtuvo a partir de la medición de amplitud de la onda superficial (MI), o a partir de la duración del registro sísmico (Mc).

En algunos, la profundidad se fijó en un valor de 10 km, de acuerdo a estudios previos de sismicidad (Sabbione et. al., 2007; Buffoni et. al., 2009) y modelos geotectónicos para la Falla Magallanes-Fagnano (Mendoza et al., 2015), además de ser el valor fijado para este parámetro por otros centros internacionales de cálculo (USGS-NEIC, ISC).

El modelo de velocidades usado para la determinación de todos los parámetros fue publicado en Adaros Cárcamo, (2003), representativo de la estructura cortical en Patagonia sur, incluido el territorio de Tierra del Fuego y zonas aledañas.

Las estaciones sismológicas usadas para la localización fueron: DSPA, TRVA, BETA, ELCA y EARG, establecidas por la UNLP y de cuya operación y mantención se encarga la Estación Astronómica Río Grande; desde agosto 2015 también las estaciones MG01, MG02, MG03, MG04, GO10 (Red Sismológica Nacional, Chile).

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2007	8	2	0	13	45.5	0.37	R	-54.731	3.0	-69.983	4.6	13.0	2.7	3	0.1	324	1.8			
2007	8	7	2	11	25.7	0.31	R	-57.913	2.7	-68.293	20.8	8.1	1.9	2	0.1	360	2.6			
2007	8	9	15	40	9.6	0.32	R	-54.211	9.7	-73.867	6.6	4.5	2.4	2	0.0	349	2.4			
2007	8	12	16	41	50.6	0.30	L	-54.324	3.2	-66.512	7.6	12.0	0.0	1	0.0	360	1.5			
2007	8	15	0	43	1.7	0.31	L	-54.483	1.8	-69.194	4.7	9.6	4.9	2	0.0	304	2.0			
2007	8	21	20	23	59.1	0.30	L	-54.369	3.1	-68.272	2.0	6.0	0.0	1	0.0	360	0.5			
2007	9	5	10	14	33.5	0.31	R	-52.530	2.4	-66.347	16.5	7.0	2.4	3	0.0	337	2.2			
2007	9	5	21	31	21.9	0.82	R	-55.850	9.3	-70.863	23.8	8.3	5.3	3	0.3	338	2.2			
2007	9	5	21	37	35.1	0.31	R	-56.935	2.3	-67.662	9.6	19.9	2.3	2	0.1	347	2.2			
2007	9	6	8	16	49.8	0.31	L	-54.890	2.7	-69.398	12.1	55.5	10.3	3	0.0	315	1.4			
2007	9	8	11	26	33.6	0.34	R	-56.102	3.5	-69.009	8.0	11.7	2.6	3	0.1	337	2.2			
2007	9	9	1	47	4.1	0.31	L	-54.695	4.1	-66.498	3.5	4.9	2.0	3	0.0	326	1.1			
2007	9	9	11	14	32.7	0.30	L	-54.654	1.9	-68.106	5.1	6.0	0.0	1	0.0	360	0.5			
2007	9	12	10	25	33.5	0.49	R	-52.589	11.5	-61.221	12.6	13.9	4.6	2	0.1	348	3.4			
2007	9	13	23	0	15.2	0.29	L	-54.623	1.8	-68.147	2.8	8.0	3.6	3	0.0	194	1.0			
2007	9	18	6	0	51.7	0.29	R	-53.276	5.8	-62.187	6.0	5.2	2.4	3	0.0	346	3.0			
2007	9	18	19	33	55.2	0.42	R	-53.341	14.8	-60.542	10.8	9.3	3.2	3	0.1	349	3.4			
2007	10	1	13	9	27.5	0.30	L	-54.554	3.0	-67.462	2.9	6.0	0.0	1	0.0	360	0.5			
2007	10	3	2	16	1.7	0.29	R	-54.735	3.5	-70.598	3.6	17.1	2.2	3	0.0	331	1.8			
2007	10	3	15	35	51.4	0.30	L	-54.844	2.2	-69.260	3.5	15.2	1.5	3	0.0	311	1.7			
2007	10	6	18	6	2.1	0.53	R	-53.203	17.2	-60.355	12.4	48.3	16.5	3	0.2	350	3.6			
2007	10	8	11	47	9.1	0.28	R	-53.724	5.2	-71.884	4.7	4.3	1.7	3	0.0	344	3.5			
2007	10	8	11	53	1.1	0.31	R	-53.739	12.5	-71.997	5.8	12.8	5.0	3	0.0	344	3.0			
2007	10	8	12	9	18.2	0.29	R	-54.272	4.6	-71.714	3.9	19.2	3.0	3	0.0	342	2.5			
2007	10	8	17	19	41.8	0.31	R	-53.648	4.6	-71.331	4.1	13.6	1.6	3	0.1	342	2.3			
2007	10	10	14	49	29.3	0.36	R	-53.684	8.7	-72.283	6.4	12.7	2.4	3	0.1	345	3.0			
2007	10	11	2	8	45.4	0.32	L	-54.613	9.8	-67.428	2.1	8.8	11.5	3	0.0	180	1.0			
2007	10	14	0	41	14.2	0.40	R	-53.297	28.4	-59.800	20.9	11.4	2.8	3	0.1	351	3.5			
2007	10	16	4	7	40.0	0.31	R	-53.200	13.2	-60.225	7.9	11.3	2.1	3	0.1	350	3.0			
2007	10	16	9	52	43.5	0.31	L	-54.578	6.8	-67.578	1.6	11.8	10.6	3	0.0	160	1.1			
2007	10	23	15	4	37.6	0.31	R	-57.685	4.7	-67.819	41.6	18.7	2.9	3	0.0	350	3.0			

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2007	10	23	15	16	3.8	0.31	L	-54.540	4.5	-69.488	4.3	4.6	3.6	3	0.0	342	1.8			
2007	10	24	13	21	44.8	0.31	L	-54.612	0.4	-68.108	2.7	6.6	6.8	2	0.0	181	1.2			
2007	10	26	0	54	7.7	0.29	L	-54.874	1.7	-66.364	3.8	6.3	1.6	2	0.0	348	1.9			
2007	11	1	11	48	17.7	0.33	R	-53.070	24.9	-60.219	16.3	3.7	1.5	3	0.1	355	3.7			
2007	11	1	12	22	1.2	0.29	R	-52.898	20.8	-60.199	16.9	8.0	2.1	3	0.0	355	3.1			
2007	11	2	18	16	50.6	0.43	R	-53.536	23.8	-61.708	16.5	19.3	3.3	3	0.1	354	2.7			
2007	11	4	9	17	29.8	0.44	R	-53.705	20.8	-61.963	12.3	21.5	4.1	3	0.2	353	2.8			
2007	11	5	8	29	14.9	0.31	R	-53.174	13.9	-62.560	14.0	12.4	2.2	3	0.1	352	2.8			
2007	11	5	15	5	14.3	0.33	R	-53.161	12.0	-62.179	10.7	18.3	3.1	3	0.1	353	2.6			
2007	11	8	4	5	43.3	0.40	L	-54.537	9.2	-69.166	8.0		8.5	3	0.1	338	1.8			
2007	11	8	7	28	27.5	0.32	L	-54.853	5.4	-69.029	8.4	3.5	3.8	3	0.0	333	1.5			
2007	11	10	0	40	22.2	0.28	R	-52.922	18.4	-60.612	15.5	9.5	2.0	3	0.0	355	3.4			
2007	11	12	23	34	23.2	0.30	L	-54.910	2.2	-69.209	5.0	6.0	0.0	1	0.0	360	1.7			
2007	11	13	15	6	32.2	0.27	R	-52.988	6.3	-71.841	8.7	23.4	0.0	1	0.0	360	2.1			
2007	11	16	19	15	25.7	0.34	L	-54.795	16.4	-69.493	6.7	2.4	7.0	3	0.0	339	1.8			
2007	11	16	20	28	16.1	0.39	L	-54.626	1.9	-69.147	5.8	3.5	3.4	2	0.1	353	1.3			
2007	11	16	20	42	37.4	0.37	R	-54.662	2.5	-69.455	10.1	8.3	6.7	2	0.1	353	2.0			
2007	11	21	2	18	0.5	0.33	L	-54.478	3.5	-69.919	4.7	12.0	2.1	2	0.1	346	1.2			
2007	11	26	6	34	10.0	0.38	R	-54.631	17.2	-70.138	5.9	7.7	3.1	3	0.1	346	1.4			
2007	11	28	4	20	38.1	0.31	L	-54.610	0.6	-67.720	1.6	6.1	3.2	2	0.1	235	0.7			
2007	11	30	10	54	43.0	0.33	R	-52.904	13.2	-60.512	9.6	21.2	2.7	2	0.1	355	3.3			
2007	12	5	2	55	7.7	0.28	R	-55.097	11.6	-64.075	7.2	15.0	2.1	3	0.0	353	2.3			
2007	12	13	13	19	35.9	0.29	R	-56.121	6.0	-70.391	8.6	9.8	2.0	3	0.0	348	2.3			
2007	12	15	3	50	16.7	0.30	L	-54.479	1.8	-68.603	4.8	6.0	0.0	1	0.0	360				
2007	12	15	7	17	33.5	0.30	L	-54.134	3.0	-68.622	3.1	6.0	0.0	1	0.0	360				
2007	12	16	15	14	23.3	0.30	L	-54.078	2.7	-69.247	4.7	6.0	0.0	1	0.0	360				
2007	12	24	3	42	18.0	0.31	L	-54.640	3.0	-67.436	7.2	12.0	5.9	2	0.0	211	0.9			
2008	1	1	18	38	41.2		R	-54.544		-69.871		13.6		2	0.0		1.8			
2008	1	3	20	26	55.6		R	-54.632		-69.116		11.0		3	0.1		1.7			
2008	1	6	9	29	16.9		R	-54.498		-70.112		10.3		3	0.0		2.1			
2008	1	6	17	52	13.0		L	-54.797		-69.190		3.9		3	0.0		1.6			

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2008	1	7	0	6	27.6		R	-54.472		-69.739		7.6		3	0.0		2.0			
2008	1	8	11	32	44.6		R	-55.030		-69.135		9.7		3	0.0		1.5			
2008	1	10	19	5	8.6	0.31	R	-54.813	2.1	-68.252	2.7	2.5	22.6	3	0.0	281	0.9			
2008	1	11	11	45	31.4		R	-54.011		-71.620		7.7		3	0.0		3.2			
2008	1	12	2	47	19.0	0.29	R	-54.927	3.4	-69.194	5.0	8.5	1.4	3	0.0	336	1.9			
2008	1	16	18	35	35.0	0.30	R	-54.802	1.9	-68.243	2.5	3.5	14.3	3	0.0	278	0.5			
2008	1	18	9	27	46.7	0.29	R	-54.784	6.5	-70.170	3.6	1.7	1.1	3	0.0	345	1.2			
2008	1	18	11	28	38.5	0.30	R	-54.626	2.4	-68.218	4.2	2.0	0.0	1	0.0	360	0.0			
2008	1	20	1	33	56.3	0.29	R	-54.536	7.2	-70.397	3.7	15.1	2.9	3	0.0	348	1.4			
2008	2	5	16	41	22.0		R	-53.785		-72.172		17.4		3	0.0		2.7			
2008	2	7	4	29	50.1		L	-54.678		-67.520		6.1		3	0.0		0.8			
2008	2	7	7	11	22.7		R	-54.686		-69.937		12.6		3	0.1		1.5			
2008	2	7	15	30	21.0		L	-54.592		-68.117		12.0		1	0.0		1.1			
2008	2	16	15	32	13.1		R	-54.441		-69.891		7.4		3	0.1		1.8			
2008	2	21	2	32	11.9		R	-52.788		-74.295		8.7		3	0.2		3.4			
2008	3	9	13	56	32.6		R	-54.147		-64.216		11.1		3	0.0		2.0			
2008	3	15	11	13	18.4		R	-54.469		-71.879		20.6		3	0.1		2.7			
2008	3	16	2	46	31.7		R	-53.771		-64.226		12.8		3	0.1		2.3			
2008	3	23	22	45	59.7		R	-55.832		-63.015		6.2		3	0.0		3.0			
2008	3	25	8	58	39.0		R	-54.962		-73.541		12.5		2	0.1		3.0			
2008	3	31	7	3	30.3		L	-54.532		-68.797		7.9		3	0.1		2.0			
2008	4	4	21	29	39.6		L	-54.594		-68.588		13.8		4	0.1		2.0		2.5	
2008	4	14	9	12	34.1		L	-54.549		-68.795		10.3		3	0.0		2.4			
2008	4	15	22	9	33.4		R	-55.608		-63.458		18.7		3	0.0		2.4		4.1	
2008	5	7	1	30	19.6		R	-54.725		-69.956		1.3		4	0.0		1.3			
2008	5	14	21	51	34.7	0.31	R	-54.708	2.0	-67.512	4.3	7.1	6.9	4	0.0	209	1.1		1.6	
2008	5	19	4	14	35.9	0.27	R	-54.794	2.2	-67.199	2.8	3.0	0.0	1	0.0	360	0.3		0.2	
2008	5	23	23	0	55.3	0.32	R	-54.325	3.0	-66.758	6.0	36.5	13.4	4	0.0	291	1.7		1.0	
2008	5	26	11	7	51.0		R	-54.895		-73.573		5.9		2	0.1		3.0			
2008	6	5	11	8	27.8		R	-54.033		-63.612		3.7		3	0.0		2.1			
2008	6	6	2	45	23.9		R	-54.460		-70.303		3.4		4	0.3		1.8			

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2008	6	6	19	42	51.6		R	-54.962		-63.396		2.6		3	0.2		2.7			
2008	6	7	13	2	5.8		R	-56.872		-65.240		8.3		3	0.1		2.9			
2008	6	22	0	0	58.2		R	-55.493		-65.293		2.7		3	0.1		1.6			
2008	6	22	0	18	17.9		R	-55.234		-65.107		3.0		1	0.0		1.5			
2008	6	22	14	47	37.4		R	-51.024		-74.117		17.2		4	0.1		3.7			
2008	6	27	11	21	46.5		R	-54.588		-70.198		31.0		3	0.1		1.8			
2008	7	12	10	46	46.9		R	-54.444		-69.403		12.6		2	0.0		2.1			
2008	7	18	2	29	4.7		R	-53.399		-61.688		39.1		3	0.1		2.8		4.3	
2008	7	20	4	23	7.4		R	-53.819		-61.252		47.6		3	0.1		2.5			
2008	7	26	20	12	6.4		L	-54.532		-68.780		7.6		3	0.0		1.2		2.9	
2008	7	27	16	48	35.5		R	-53.213		-62.273		9.3		1	0.0		3.0			
2008	8	1	21	9	30.0		R	-55.033		-67.102				2	0.0		1.6			
2008	8	2	4	28	51.3		R	-54.372		-62.384		50.5		3	0.2		2.5			
2008	8	5	1	4	59.4		R	-54.148		-69.849		16.6		3	0.1		1.6			
2008	8	5	21	6	27.3		R	-54.230		-66.818		7.3		3	0.1		0.9			
2008	8	7	7	59	3.9		R	-53.479		-66.504		25.8		3	0.1		0.9			
2008	8	12	15	4	49.4		R	-54.929		-66.537		8.1		3	0.0		1.3			
2008	8	24	9	1	26.9		R	-54.372		-64.180		28.3		3	0.0		2.1			
2008	8	26	1	48	11.6		R	-55.629		-63.095		31.2		3	0.2		2.7			
2008	8	29	11	11	31.7		L	-54.555		-67.779		15.4		3	0.1		0.9			
2008	8	29	11	14	5.2		L	-54.633		-67.891		8.8		3	0.0		0.2			
2008	8	29	12	10	47.6		L	-54.655		-67.928		10.2		3	0.1		1.0			
2008	8	30	7	25	48.5		R	-54.115		-64.676		21.9		3	0.1		2.6			
2008	9	5	11	44	29.6		R	-54.588		-71.283		0.7		2	0.1		1.8			
2008	9	7	14	6	59.3		R	-54.461		-55.918		74.7		3	0.0		3.9			
2008	9	13	5	20	1.6		R	-55.244		-62.817		30.8		3	0.2		2.3			
2008	9	14	11	41	45.5	0.30	R	-54.569	2.8	-67.472	3.4	3.0	0.0	1	0.0	360	0.1			
2008	9	14	23	50	39.3		R	-54.539		-69.782		1.1		3	0.1		1.5			
2008	9	17	12	43	24.6		R	-55.544		-64.197		28.7		3	0.1		2.0			
2008	9	19	14	10	54.5		L	-54.475		-67.165		8.2		3	0.1		0.6			
2008	9	22	21	9	17.1	0.82	R	-52.964	15.0	-63.766	13.4	14.7	6.5	3	0.3	342	2.1		4.1	

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2008	10	3	13	52	5.9		L	-54.614		-67.741		6.9		3	0.0		0.8			
2008	10	3	13	52	4.8		L	-54.644		-67.812		8.7		4	0.1				2.2	
2008	10	7	7	13	44.8		R	-55.614		-63.241		12.6		3	0.2		2.5			
2008	10	12	3	54	36.8		R	-55.808		-63.161		0.2		3	0.1		2.2			
2008	10	12	3	51	8.3	0.35	R	-53.095	2.4	-66.480	6.3	21.7	3.8	3	0.1	327	1.8			
2008	10	26	7	51	52.0		R	-52.765		-68.458		3.2		2	0.0		1.8			
2008	11	8	22	10	58.7	0.52	R	-54.227	8.5	-64.255	7.6	15.0	3.4	3	0.2	340			1.6	
2008	11	17	15	2	40.1	1.08	L	-54.980	8.8	-67.644	6.5	10.7	4.5	4	0.4	286			3.7	
2008	11	17	15	2	39.6	0.93	L	-55.010	10.0	-67.599	11.9	11.7	4.3	4	0.4	292				
2008	12	5	11	52	51.3	0.33	L	-54.605	28.5	-67.495	38.6	3.6	11.8	3	0.0	191	1.3		2.1	
2008	12	17	7	56	28.8	0.30	R	-54.596	3.1	-67.204	4.9	12.0	0.0	1	0.0	360	0.9			
2008	12	24	16	4	40.1	0.44	L	-54.832	83.5	-66.892	31.4	6.0	37.0	3	0.1	343	0.9		1.6	
2009	1	23	12	40	13.0	0.59	R	-52.858	45.1	-56.223	20.0	19.6	5.1	3	0.2	354	3.9		4.1	
2009	1	31	20	45	24.6	0.30	R	-54.566	2.6	-67.253	2.0	5.0	0.0	1	0.0	360			0.6	
2009	2	14	23	49	15.8	0.46	R	-54.582	19.3	-64.115	7.0			3	0.1	343	2.2		2.3	
2009	2	16	10	10	56.2	0.57	R	-56.642	18.0	-63.602	28.9	65.3	14.1	3	0.2	358			2.8	
2009	2	17	11	29	53.1	0.39	L	-54.486	6.7	-67.691	12.9	24.3	3.5	3	0.1	179			1.3	
2009	2	18	1	7	7.5	0.64	D	-52.384	12.1	-62.354	16.8	23.4	6.2	3	0.2	346			2.5	
2009	2	18	8	52	51.3	0.79	D	-52.745	20.2	-60.658	18.2	27.3	7.1	3	0.2	349			2.5	
2009	2	28	5	1	21.4	0.39	R	-54.931	5.8	-64.625	5.8	31.8	2.3	2	0.1	353			1.7	
2009	3	19	21	42	44.1	0.32	L	-54.644	70.5	-67.522	47.9	6.1	101.2	3	0.0	212	0.7		1.0	
2009	4	5	11	52	10.3	0.49	R	-54.437	2.0	-69.271	5.2	3.6	3.3	4	0.1	305	2.5		3.1	
2009	4	14	19	23	52.0	0.36	R	-54.305	2.7	-69.415	4.3	14.2	2.1	3	0.1	315			1.8	
2009	4	15	3	36	49.6	0.76	R	-55.276	21.4	-63.600	13.5	15.4	5.8	3	0.3	350			1.7	
2009	4	21	2	54	17.6	0.29	R	-54.584	4.8	-67.481	7.8	13.4	4.5	3	0.0	176	1.8		2.0	
2009	5	10	4	53	20.9	0.55	R	-54.563	11.4	-61.635	9.3	27.6	3.5	3	0.2	254			3.0	
2009	5	12	8	43	51.2	0.31	R	-56.527	3.3	-69.292	7.4	31.8	2.0	2	0.0	342	2.3		2.8	
2009	5	25	13	30	20.4	0.62	D	-56.757	12.4	-62.187	24.5	28.6	6.6	4	0.2	214			4.4	
2009	6	19	10	57	43.3	0.34	L	-54.619	3.8	-67.472	8.2	1.9	15.9	2	0.0	196			0.2	
2009	7	5	16	48	56.8	0.90	R	-54.035	13.6	-64.574	11.5	26.5	4.8	3	0.3	336			2.3	
2009	7	25	7	17	0.4	0.38	R	-50.996	38.6	-74.423	56.7	16.4	2.4	3	0.1	357			3.5	

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2009	7	25	10	35	3.7	0.29	R	-54.337	1.9	-69.419	3.8	5.5	2.3	3	0.0	314			2.0	
2009	7	27	9	20	23.6	0.75	R	-54.294	18.8	-64.036	11.1	32.0	7.5	3	0.3	341			2.4	
2009	7	27	11	27	17.2	0.62	R	-54.089	10.7	-64.314	7.9	28.9	4.2	3	0.2	339			3.0	
2009	7	30	12	30	56.8	0.78	R	-52.845	27.4	-74.014	19.6	5.2	3.9	2	0.2	353			3.2	
2009	7	30	17	41	10.2	1.02	R	-51.487	8.6	-66.540	34.6	3.7	5.9	3	0.4	346			2.8	
2009	9	11	7	55	49.4	0.32	R	-54.294	11.3	-64.240	9.2	11.2	2.4	3	0.0	340			1.9	
2009	9	12	19	19	11.7	0.34	L	-54.620	2.2	-67.385	1.7	14.4	5.3	2	0.0	207			0.7	
2009	9	13	0	54	41.0	0.72	R	-55.350	14.3	-63.516	15.7	4.2	3.5	2	0.2	350			2.3	
2009	9	16	14	57	15.8	0.70	L	-54.592	2.0	-67.638	6.1	12.5	20.2	3	0.2	208			1.9	
2009	9	22	8	41	44.5	0.34	L	-54.691	0.7	-67.176	10.2	14.8	1.0	2	0.0	317			0.6	
2009	9	23	11	15	2.9	0.61	L	-54.529	3.6	-67.569	6.6	6.1	806.0	2	0.2	186	1.8		2.4	
2009	9	23	13	37	4.7	0.46	R	-51.209	43.2	-73.104	73.2	30.3	4.1	3	0.1	358			3.7	
2009	9	27	13	35	21.2	0.82	R	-55.604	12.3	-71.611	13.0	25.9	4.7	3	0.3	340			3.3	
2009	9	27	22	54	0.8	0.37	R	-54.118	12.5	-64.149	12.3	20.8	2.9	3	0.1	340			2.5	
2009	9	30	12	13	49.6	0.40	R	-56.171	35.7	-64.252	52.7	8.3	2.8	3	0.1	357			3.3	
2009	10	4	13	18	45.0	0.70	R	-55.446	26.7	-64.953	38.2	24.1	4.4	3	0.2	352			2.4	
2009	10	11	10	46	32.7	0.87	R	-56.557	15.7	-65.543	44.5	17.3	6.8	2	0.3	357			2.7	
2009	10	27	0	4	46.4	4.79	R	-59.870	20.0	-64.408	70.6	23.2	46.0	7	1.6	152	4.2		4.5	
2009	10	27	0	4	45.6	2.09	R	-59.930	8.6	-64.723	31.5	19.3	15.1	7	0.7	154	4.3		4.3	
2009	11	6	3	37	40.1	0.34	L	-54.368	3.7	-70.385	4.4	30.8	1.9	3	0.1	331	3.6		5.1	
2009	11	6	3	47	24.0	1.59	L	-54.053	15.7	-70.510	24.8	15.0	9.9	2	0.3	337			2.1	
2009	11	6	4	26	18.2	0.30	L	-54.063	3.8	-70.475	8.2	20.0	0.0	1	0.0	360			2.0	
2009	11	10	12	5	7.1	0.32	L	-54.482	0.8	-67.406	1.0	6.0	3.5	2	0.0	213			1.8	
2010	2	11	16	44	23.2	0.44	R	-54.240	6.7	-64.757	5.3	25.4	2.6	4	0.1	336			3.3	
2010	2	23	10	31	39.3	0.38	R	-57.545	6.7	-65.693	24.7	3.3	1.6	4	0.1	351			3.6	
2010	2	27	6	33	52.5	0.28	D	-34.898	11.1	-74.368	63.5	93.2	0.0	1	0.0	360				
2010	3	1	20	49	13.8	0.34	L	-54.655	1.8	-67.543	14.3	3.7	13.2	2	0.0	227			2.4	
2010	3	5	4	1	55.7	0.50	R	-56.375	8.7	-70.267	13.1	20.0	3.9	4	0.1	341			3.1	
2010	3	7	16	56	39.1	0.36	L	-54.581	6.5	-68.090	13.4	6.1	12.6	3	0.1	159			1.0	
2010	4	10	11	42	46.9	1.06	D	-53.736	21.6	-73.356	14.2	20.0	9.9	2	0.2	349			2.5	
2010	4	12	2	11	56.0	0.49	L	-54.216	4.7	-69.757	6.2	31.6	2.5	3	0.1	325			2.7	

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2010	4	12	2	57	20.5	0.50	R	-56.443	91.6	-63.269	113.3			3	0.1	357			2.3	
2010	4	14	9	10	59.5	0.44	L	-54.189	5.5	-69.754	6.0	29.3	3.4	3	0.1	325			2.2	
2010	5	7	13	49	15.6	0.34	R	-56.609	3.3	-67.992	24.5	18.4	4.0	3	0.1	345			2.3	
2010	5	14	22	35	9.0	0.39	R	-53.769	7.6	-63.437	7.2	23.5	2.4	3	0.1	342			3.0	
2010	5	18	13	52	52.7	0.69	R	-54.183	10.5	-63.875	10.5	25.7	5.3	3	0.2	341			1.9	
2010	5	23	10	37	12.3	0.38	R	-56.090	25.7	-63.612	29.4	29.0	2.6	3	0.1	355			2.1	
2010	6	8	11	41	43.5	0.46	L	-54.666	51.4	-67.309	106.8	23.7	5.8	2	0.1	269			0.9	
2010	6	11	18	56	17.9	0.56	L	-54.621	5.3	-66.736	7.6	16.1	3.6	3	0.1	314			2.0	
2010	7	13	3	54	57.7	0.34	R	-54.120	6.0	-71.955	5.4	20.8	2.3	2	0.1	343			2.9	
2010	7	14	9	54	2.5	0.59	R	-56.489	4.8	-68.679	15.8	25.2	3.8	2	0.2	342			2.3	
2010	7	18	8	11	29.2	0.30	R	-56.270	2.5	-68.999	7.7	23.6	2.0	2	0.0	339			2.6	
2010	8	16	18	43	43.1	0.58	R	-57.137	4.1	-67.572	26.9	12.0	3.3	3	0.2	350			2.3	
2010	8	18	17	55	34.8	0.32	R	-53.886	17.4	-62.271	13.6	23.5	2.6	3	0.0	346			2.5	
2010	8	19	9	11	42.0	1.78	R	-54.431	28.1	-64.378	25.8	15.0	16.3	2	0.3	340			2.3	
2010	8	30	5	16	45.2	0.52	R	-54.640	11.5	-63.077	7.2	23.7	4.1	3	0.1	347			2.4	
2010	9	1	12	38	6.4	0.44	R	-56.097	29.5	-63.466	32.1	13.0	2.7	3	0.1	355			2.6	
2010	9	11	1	17	26.2	0.44	R	-54.576	5.3	-70.352	6.0	28.7	2.6	3	0.1	329			1.7	
2010	9	22	13	23	59.6	0.92	L	-54.656	4.7	-67.747	3.7	6.0	10.1	3	0.3	185			1.7	
2010	9	23	8	54	11.0	0.68	R	-56.340	6.1	-68.963	16.8	28.2	3.8	3	0.2	340			3.1	
2010	10	6	4	42	1.7	1.09	D	-53.250	25.0	-61.118	15.3	19.5	8.7	3	0.3	348			2.7	
2010	10	6	4	49	3.2	1.15	D	-53.479	66.7	-57.932	36.8	3.3	5.4	4	0.5	353			3.3	
2010	10	6	4	49	2.8	0.59	D	-53.337	35.1	-57.980	20.2	1.2	3.1	3	0.2	352			3.3	
2010	10	6	13	50	16.0	0.34	L	-54.554	14.3	-67.621	22.9		4.5	3	0.1	190			1.9	
2010	10	6	15	17	25.7	0.33	L	-54.559	11.9	-67.632	19.0		3.7	3	0.0	195			1.2	
2010	10	6	17	16	43.7	0.75	R	-53.538	50.0	-57.311	25.0	60.2	18.7	3	0.3	353			3.4	
2010	10	6	19	24	25.8	0.71	R	-55.233	18.8	-65.098	22.9	17.3	4.4	3	0.2	349			2.3	
2010	10	6	20	37	42.2	0.33	L	-54.756	5.2	-66.624	5.7	18.6	2.3	3	0.0	331			1.3	
2010	10	6	23	47	6.1	0.39	L	-54.835	12.2	-66.701	11.3	21.3	2.8	3	0.1	339			1.6	
2010	10	7	1	45	1.3	0.43	L	-54.632	6.2	-67.726	7.1		3.2	3	0.1	233			1.8	
2010	10	7	2	19	45.3	0.70	L	-54.595	8.7	-67.683	13.3		3.7	3	0.2	217			1.6	
2010	10	7	2	26	14.7	0.44	L	-55.014	5.3	-67.133	11.7	20.5	1.9	3	0.1	345			1.1	

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2010	10	25	11	41	9.4	0.47	R	-54.591	6.9	-72.531	7.6	7.0	3.6	2	0.1	344			3.3	
2010	10	26	6	3	23.1	0.32	L	-54.733	4.7	-67.449	2.0	19.0	1.6	3	0.1	236			1.3	
2010	11	4	5	2	33.3	0.34	L	-54.521	3.1	-67.978	5.4	2.0	10.0	3	0.0	133	1.1		1.6	
2010	11	12	16	2	13.6	0.32	R	-55.547	4.2	-69.828	6.7	25.9	3.7	2	0.0	330			2.6	
2010	11	16	7	5	30.0	0.67	R	-54.823	7.4	-69.828	12.0	32.4	7.8	2	0.2	322			1.8	
2010	11	17	21	2	38.3	0.50	R	-57.234	12.8	-73.894	16.0			2	0.2	349			2.3	
2010	11	26	14	25	37.2	0.33	R	-56.331	3.8	-65.871	9.4	3.5	1.4	2	0.1	356			2.3	
2011	1	13	2	15	27.4	0.29	R	-56.191	2.5	-69.095	7.2	26.7	1.9	2	0.0	338			3.0	
2011	2	2	4	1	32.2	2.34	L	-54.642	17.6	-67.502	30.6	9.5	56.3	2	0.2	214			2.6	EAR
2011	2	22	16	37	1.2	0.30	L	-54.578	1.5	-68.227	3.9	0.0	0.0	1	0.0	360				
2011	2	22	16	55	1.2	0.27	L	-54.588	0.5	-68.227	3.5	0.0	0.0	1	0.0	360				
2011	2	22	17	17	19.4	0.30	L	-54.573	1.7	-68.225	3.6	0.0	0.0	1	0.0	360				
2011	2	22	17	17	53.5	0.30	L	-54.578	1.5	-68.227	3.8	0.0	0.0	1	0.0	360				
2011	2	23	1	2	54.7	0.30	L	-54.585	0.9	-68.224	4.3	0.0	0.0	1	0.0	360				
2011	2	23	1	26	5.3	0.30	L	-54.583	1.1	-68.226	4.2	0.0	0.0	1	0.0	360				
2011	2	23	1	31	26.0	0.30	L	-54.596	0.2	-68.229	4.5	0.0	0.0	1	0.0	360				
2011	2	23	2	8	54.0	0.34	L	-54.711	1.2	-67.947	2.1	20.5	9.0	2	0.0	216			0.8	EAR
2011	2	23	21	6	21.3	0.37	L	-54.668	0.6	-67.524	5.8	1.4	7.3	2	0.1	227			2.6	EAR
2011	2	23	21	6	34.0	0.30	L	-54.696	1.4	-67.604	5.6	15.0	0.0	1	0.0	360				
2011	3	1	23	47	26.1	0.30	L	-54.545	2.1	-68.178	3.9	5.0	0.0	1	0.0	360	0.3	EAR		
2011	3	1	23	51	12.3	0.30	L	-54.529	1.9	-68.161	3.2	0.0	0.0	1	0.0	360	0.2	EAR		
2011	3	5	0	26	36.8	0.45	R	-54.452	11.8	-63.056	9.2	71.7	8.0	2	0.1	346			2.0	EAR
2011	3	7	1	26	54.9	0.31	R	-55.08	10.9	-70.587	47.8	0.0	18.9	2	0.0	332			2.2	EAR
2011	3	7	12	8	7.2	0.74	R	-57.367	7.9	-69.791	23.2	1.4	3.3	2	0.2	347			2.2	EAR
2011	3	8	11	10	36.2	0.30	L	-54.498	3.2	-68.173	2.7	5.0	0.0	1	0.0	360			1.1	EAR
2011	3	8	22	35	6.9	0.43	L	-54.753	2.8	-66.187	6.6	21.4	2.4	2	0.1	333			1.4	EAR
2011	3	12	15	31	51.7	0.29	L	-54.643	4.9	-67.162	8.3	12.8	7.2	3	0.0	294			1.4	EAR
2011	3	17	3	47	14.1	0.52	R	-54.408	8.3	-63.677	7.8	18.6	3.4	2	0.2	344			4.5	EAR
2011	3	17	4	45	49.1	0.37	R	-54.298	7.3	-63.712	5.8	31.8	3.6	2	0.1	343			4.0	EAR
2011	3	17	20	28	21.6	0.48	R	-53.952	9.0	-63.994	5.9	23.7	3.0	3	0.1	340			2.1	EAR
2011	3	17	21	53	38.3	0.36	R	-56.200	3.6	-69.007	7.2	21.4	2.3	2	0.0	338			2.0	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2011	3	18	9	23	32.8	0.30	R	-54.026	6.6	-71.929	8.6	0.0	0.0	1	0.0	360			2.6	EAR
2011	3	19	13	51	56.3	0.61	R	-54.266	8.6	-64.124	9.0	22.3	4.0	2	0.1	341			2.7	EAR
2011	4	4	6	46	45.4	0.72	L	-54.412	10.5	-69.197	20.8	10.4	10.1	2	0.2	306			1.8	EAR
2011	4	5	19	3	56.5	0.34	L	-54.944	15.9	-69.821	31.6	0.8	17.7	2	0.0	322			1.7	EAR
2011	4	7	2	53	45.4	0.51	R	-57.315	5.3	-66.911	22.4	13.2	3.4	2	0.2	352			1.9	EAR
2011	4	11	20	28	55.6	0.33	L	-54.739	4.7	-69.608	22.7	8.5	12.1	2	0.1	317			1.5	EAR
2011	4	17	19	48	40.1	0.33	R	-54.391	3.5	-70.733	4.8	26.7	2.1	2	0.1	334			2.2	EAR
2011	4	20	1	49	32.5	0.65	L	-54.625	1.7	-67.637	8.1	13.6	18.7	2	0.2	223			2.1	EAR
2011	4	21	0	35	38.1	0.42	R	-58.262	4.9	-70.457	16.8	3.5	1.9	2	0.1	350			2.5	EAR
2011	4	22	6	6	50.3	0.40	R	-56.858	9.0	-63.876	17.1	1.0	2.3	2	0.1	359			1.9	EAR
2011	4	26	15	4	40.2	0.30	L	-54.019	1.4	-69.043	5.6	15.0	0.0	1	0.0	360			2.2	EAR
2011	5	10	18	22	38.2	0.27	R	-54.759	9.4	-62.909	5.8	7.1	0.0	1	0.0	360			4.3	EAR
2011	5	15	5	55	5.5	0.27	R	-53.512	13.0	-61.224	5.8	2.8	0.0	1	0.0	360			3.5	EAR
2011	5	22	17	38	42.5	0.30	L	-54.581	2.0	-67.489	3.0	0.0	0.0	1	0.0	360			1.2	EAR
2011	5	29	0	38	34.8	0.27	R	-56.346	4.9	-70.068	9.0	6.8	0.0	1	0.0	360			2.4	EAR
2011	5	29	2	40	29.1	0.27	R	-55.724	7.3	-71.672	6.6	15.1	0.0	1	0.0	360			2.5	EAR
2011	6	2	18	24	8.9	0.36	L	-54.226	4.1	-70.576	5.3	28.0	2.3	2	0.0	335			2.8	EAR
2011	6	4	11	3	20.2	0.27	R	-55.273	12.7	-74.371	5.4	2.6	0.0	1	0.0	360			3.0	EAR
2011	6	5	6	38	26.5	0.30	L	-54.387	2.5	-67.183	2.0	0.0	0.0	1	0.0	360			1.3	EAR
2011	6	6	16	52	15.1	0.27	R	-54.225	4.6	-70.147	4.7	28.2	0.0	1	0.0	360			2.3	EAR
2011	6	9	1	41	0.2	0.27	R	-54.199	7.4	-62.923	5.2	11.5	0.0	1	0.0	360			2.5	EAR
2011	6	9	5	30	4.9	0.55	R	-54.827	11.1	-73.289	9.6	1.7	2.7	2	0.1	345			3.2	EAR
2011	6	13	14	32	34.7	0.38	L	-54.459	2.7	-69.305	19.6	20.4	10.4	2	0.0	309			2.4	EAR
2011	6	13	17	50	51.5	0.28	R	-55.136	3.9	-69.710	4.7	32.2	0.0	1	0.0	360			2.2	EAR
2011	6	17	19	13	32.6	0.30	L	-54.778	1.9	-68.432	5.7	20.0	0.0	1	0.0	360			1.6	EAR
2011	6	19	13	9	59.6	0.30	L	-54.657	2.2	-66.050	5.7	20.0	0.0	1	0.0	360			1.8	EAR
2011	6	26	5	18	16.1	0.62	R	-57.715	8.8	-65.417	33.2	20.7	3.8	2	0.2	356			3.3	EAR
2011	7	3	16	53	26.2	0.78	L	-54.684	10.7	-67.333	18.5	24.5	5.9	2	0.2	352			0.9	EAR
2011	7	3	16	9	51.1	0.79	R	-53.983	11.6	-62.697	11.3	14.9	4.6	2	0.2	345			2.6	EAR
2011	7	12	20	11	25.5	0.30	R	-55.688	4.7	-65.423	8.3	20.0	0.0	1	0.0	360			2.0	EAR
2011	7	13	20	37	52.1	0.30	R	-55.204	6.2	-63.926	8.9	20.0	0.0	1	0.0	360			2.2	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2011	7	21	17	30	20.3	1.14	R	-50.144	38.6	-72.042	99.8	14.2	7.3	2	0.3	359			3.3	EAR
2011	7	28	16	41	3.4	0.46	L	-54.603	2.2	-67.497	4.4	0.2	9.3	2	0.1	195			0.8	EAR
2011	8	9	12	21	4.3	0.32	L	-54.847	3.4	-67.259	1.8	55.8	3.0	2	0.0	342			1.7	EAR
2011	8	10	14	13	17.5	1.06	R	-54.047	13.7	-63.256	14.8	9.5	6.1	2	0.2	344			2.8	EAR
2011	8	17	15	40	16.0	0.27	R	-55.691	3.0	-65.884	5.6	31.7	0.0	1	0.0	360			1.7	EAR
2011	8	22	2	41	14.9	1.31	R	-55.871	12.2	-66.442	26.3	24.6	7.8	2	0.3	354			3.3	EAR
2011	8	22	11	6	35.1	0.31	R	-55.356	3.8	-65.045	5.9	32.1	999.9	2	0.0	351			2.2	EAR
2011	8	23	16	20	39.1	1.09	R	-56.251	22.2	-63.790	32.8	15.0	6.3	2	0.3	356			3.2	EAR
2011	9	8	13	10	33.4	0.51	R	-56.074	5.5	-70.939	12.6	28.2	3.4	2	0.1	340			2.3	EAR
2011	9	8	16	40	21.6	0.57	R	-58.095	5.2	-68.478	29.8	23.8	3.9	2	0.1	351			2.7	EAR
2011	9	10	0	40	6.5	0.34	R	-53.879	5.2	-63.521	5.8	22.9	2.3	2	0.0	342			3.1	EAR
2011	10	2	23	19	15.5	0.31	L	-53.319	4.1	-68.633	3.6	107.3	4.1	2	0.0	350			2.2	EAR
2011	10	14	21	28	47.6	0.68	R	-57.704	19.1	-64.226	53.4	0.8	3.3	2	0.2	358			3.3	EAR
2011	10	17	8	24	26.5	0.33	L	-54.789	3.9	-67.269	6.6	23.9	1.0	2	0.0	345			1.7	EAR
2011	10	24	19	40	2.9	0.29	L	-54.881	3.0	-67.046	5.3	21.0	1.0	2	0.0	358			1.9	EAR
2011	10	30	20	22	9.1	0.63	R	-56.416	10.7	-65.584	29.0	31.7	3.6	2	0.1	358			2.8	EAR
2011	11	5	3	28	6.5	0.31	L	-54.623	2.3	-67.450	4.1	10.7	5.7	2	0.0	192			1.8	EAR
2011	12	5	6	10	11.5	0.39	R	-56.505	4.8	-66.437	14.6	31.6	2.2	4	0.1	347			2.8	EAR
2011	12	15	5	31	40.3	0.68	R	-56.537	6.4	-68.447	17.7	17.6	4.4	2	0.1	344			2.2	EAR
2011	12	15	11	18	30.4	0.54	R	-50.767	20.2	-73.264	37.3	77.9	13.4	2	0.1	356			3.0	EAR
2011	12	29	21	27	1.0	0.74	R	-55.643	16.1	-62.458	13.4	1.7	3.4	4	0.3	346			2.4	EAR
2012	1	3	8	33	50.8	0.41	R	-54.138	5.4	-64.080	5.9	22.6	2.3	3	0.1	340			1.9	EAR
2012	1	3	14	32	32.1	0.34	R	-54.260	6.1	-64.118	4.6	26.7	1.9	3	0.1	341			2.3	EAR
2012	1	5	6	56	22.6	0.37	L	-54.622	4.1	-67.520	11.6	6.2	12.9	3	0.1	154			1.7	EAR
2012	1	5	9	44	46.8	0.38	R	-57.127	4.7	-66.067	20.6	3.2	1.4	3	0.1	350			2.9	EAR
2012	1	12	19	32	45.5	0.39	R	-54.893	16.7	-61.564	6.2	11.4	2.6	3	0.1	351			2.8	EAR
2012	1	17	23	21	55.0	0.30	R	-33.632	775.0	-67.089	197.7	15.0	0.0	3	0.0	358				
2012	1	21	6	42	3.3	0.35	L	-54.725	2.0	-69.630	4.7	1.4	2.7	3	0.1	317			2.0	EAR
2012	1	27	12	24	22.1	1.03	R	-57.622	33.5	-65.768	80.6	32.1	999.9	3	0.5	351				
2012	2	11	0	10	42.1	0.84	R	-54.669	17.4	-72.488	10.7	32.0	5.0	3	0.3	343			2.7	EAR
2012	2	12	9	13	26.6	0.39	L	-54.576	0.7	-68.025	3.1	3.3	3.2	3	0.1	157			1.4	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2012	2	15	18	27	20.8	0.59	L	-54.520	3.7	-69.353	12.2	8.9	3.7	2	0.1	310			2.0	EAR
2012	2	16	18	23	4.4	0.27	L	-54.793	4.2	-64.696	4.3	17.2	0.0	1	0.0	360			1.7	EAR
2012	2	16	0	32	53.5	0.57	R	-56.916	18.2	-64.486	41.4	0.0	2.8	3	0.2	353			1.8	EAR
2012	2	18	21	31	47.2	0.54	R	-55.628	14.7	-71.149	9.7	14.0	3.3	3	0.2	338			0.6	EAR
2012	2	20	20	35	27.3	0.36	L	-54.415	9.3	-65.984	13.8	4.3	8.1	3	0.1	323			1.9	EAR
2012	2	20	20	42	28.3	0.34	L	-54.385	6.0	-65.589	7.4	6.2	2.5	3	0.0	329			2.0	EAR
2012	2	20	21	23	27.3	0.44	L	-54.480	6.8	-64.894	6.2	21.2	2.4	3	0.1	337			2.0	EAR
2012	2	20	21	34	48.0	0.64	L	-54.506	9.8	-64.826	8.9	31.6	4.0	3	0.2	338			1.8	EAR
2012	2	20	21	39	36.3	0.29	L	-54.431	4.2	-64.975	3.6	20.5	1.6	3	0.0	336			2.3	EAR
2012	2	20	21	48	11.2	0.30	L	-54.423	4.4	-64.927	4.0	24.1	1.9	3	0.1	337			2.0	EAR
2012	2	20	21	50	27.5	0.55	L	-54.481	8.0	-64.979	6.7	23.8	3.0	3	0.2	337			2.2	EAR
2012	2	20	22	4	35.5	0.29	L	-54.956	5.8	-64.841	3.8	25.8	1.7	3	0.0	344			1.9	EAR
2012	2	20	22	19	20.7	0.33	L	-54.435	4.8	-64.948	4.6	23.8	1.8	3	0.1	336			1.8	EAR
2012	2	20	22	26	50.2	0.30	L	-54.822	5.2	-64.911	5.2	23.0	2.0	3	0.0	342			2.3	EAR
2012	2	20	23	13	6.9	0.41	L	-54.458	5.9	-64.984	5.0	24.4	2.2	3	0.1	336			2.4	EAR
2012	2	21	0	49	32.6	0.35	L	-54.420	4.9	-64.985	4.7	22.3	2.2	3	0.1	336			2.2	EAR
2012	2	21	0	32	50.5	0.38	R	-56.881	3.1	-69.319	15.1	15.2	2.3	3	0.1	344			2.6	EAR
2012	2	24	11	37	23.6	0.58	L	-54.150	10.4	-64.437	8.1	28.6	3.3	3	0.2	338			2.1	EAR
2012	3	4	0	56	13.3	0.40	L	-54.682	2.0	-69.504	5.3	3.7	3.1	3	0.1	315			1.9	EAR
2012	3	4	22	15	7.4	0.34	L	-54.754	2.1	-69.172	3.9	10.4	1.9	3	0.1	307			2.2	EAR
2012	3	9	6	12	47.0	0.51	R	-56.576	8.0	-65.225	18.2	27.6	3.1	2	0.1	358			2.7	EAR
2012	3	9	17	4	17.9	0.68	R	-54.300	18.7	-60.353	12.0	20.0	5.7	2	0.1	351			2.9	EAR
2012	3	9	22	8	9.4	0.59	R	-56.572	7.1	-66.063	18.9	23.9	4.4	2	0.1	355			3.4	EAR
2012	3	12	3	51	46.5	0.38	R	-56.709	5.8	-65.355	14.4	23.8	2.5	2	0.1	357			2.4	EAR
2012	3	14	5	16	41.4	0.44	L	-54.676	0.4	-67.467	7.5	14.9	6.2	2	0.1	234			1.6	EAR
2012	3	18	5	47	29.9	0.79	R	-52.852	21.3	-74.139	18.1	1.2	3.5	2	0.2	353			3.1	EAR
2012	3	23	15	44	48.3	0.82	R	-56.600	8.5	-66.038	26.1	19.4	4.5	2	0.2	355			2.7	EAR
2012	3	23	16	33	21.1	0.36	R	-56.870	4.3	-65.783	13.6	19.9	2.1	2	0.1	356			3.7	EAR
2012	3	23	20	21	35.2	0.35	R	-54.368	4.2	-63.703	4.8	28.1	2.0	2	0.1	343			2.6	EAR
2012	3	24	11	32	20.9	0.57	L	-54.514	5.5	-68.964	13.1	29.5	9.2	2	0.1	296			1.9	EAR
2012	3	25	4	22	11.6	0.67	R	-56.596	4.8	-68.736	14.0	24.7	3.7	2	0.2	343			2.7	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2012	4	10	20	40	43.5	0.43	R	-54.460	1.7	-68.857	6.0	9.7	22.3	3	0.1	283			1.9	EAR
2012	4	14	10	56	18.9	0.27	D	-57.241	0.8	-64.646	3.3	34.8	3.9	5	0.0	170			5.5	EAR
2012	4	14	19	40	27.0	0.35	R	-56.803	21.0	-62.907	33.9	19.2	2.1	3	0.1	353			3.0	EAR
2012	4	15	0	42	27.9	0.43	R	-54.399	9.5	-60.945	6.3	28.6	2.6	2	0.1	350			2.8	EAR
2012	4	15	0	43	15.6	0.46	R	-53.689	18.8	-62.686	16.5	4.4	2.1	3	0.2	345			2.7	EAR
2012	4	16	6	1	51.1	0.56	R	-56.332	7.3	-64.807	14.4	29.6	3.1	3	0.1	351			2.8	EAR
2012	4	17	9	9	32.3	0.80	R	-53.913	13.1	-62.547	10.1	2.7	2.8	3	0.3	346			2.7	EAR
2012	4	17	9	29	42.3	0.41	R	-52.818	5.7	-63.527	8.0	3.5	1.8	3	0.1	343			2.6	EAR
2012	4	23	3	39	25.2	0.42	R	-54.226	12.6	-62.292	6.8	8.4	2.4	2	0.1	358			2.8	EAR
2012	4	23	11	4	2.1	0.56	R	-55.492	17.0	-62.421	11.1	12.6	3.6	2	0.1	359			2.7	EAR
2012	4	27	19	15	11.1	0.28	L	-55.675	2.5	-67.668	4.8	32.0	0.0	1	0.0	360				
2012	4	28	4	16	49.8	0.27	R	-54.576	8.1	-62.543	4.7	8.1	0.0	1	0.0	360			2.4	EAR
2012	5	4	15	1	8.2	0.27	R	-54.675	26.9	-56.028	5.7	16.1	0.0	1	0.0	360			3.8	EAR
2012	5	5	10	33	8.6	0.27	R	-57.676	5.4	-70.130	16.8	3.0	0.0	1	0.0	360			2.8	EAR
2012	5	7	21	41	0.9	0.58	R	-55.523	5.9	-71.517	8.8	29.1	3.3	2	0.1	339			3.0	EAR
2012	5	10	4	37	36.6	0.61	L	-54.837	5.6	-69.534	41.3	2.4	15.5	2	0.1	317			2.1	EAR
2012	5	13	14	44	4.9	0.27	R	-54.765	7.5	-71.817	4.6	26.7	0.0	1	0.0	360			2.4	EAR
2012	5	13	15	24	17.6	0.39	R	-56.113	3.1	-69.315	9.0	6.0	1.8	2	0.1	337			2.4	EAR
2012	5	14	11	34	58.3	0.31	R	-56.335	4.1	-66.047	9.0	3.4	1.4	2	0.0	355			2.8	EAR
2012	5	16	19	56	55.0	0.40	R	-53.802	13.5	-60.960	8.3	32.1	2.5	3	0.1	349			3.5	EAR
2012	5	16	20	4	45.3	0.52	R	-53.966	17.6	-61.254	7.0	17.0	3.6	3	0.2	349			3.1	EAR
2012	5	18	19	20	24.8	0.29	R	-54.398	5.5	-64.035	3.8	29.9	1.6	3	0.0	342			2.6	EAR
2012	5	20	3	2	46.3	0.30	L	-54.710	1.0	-67.488	4.9	5.0	0.0	1	0.0	360			1.0	EAR
2012	5	21	7	8	34.6	0.66	R	-54.051	8.2	-70.650	6.7	80.1	11.0	3	0.2	338			2.8	EAR
2012	5	21	9	48	49.8	0.51	R	-56.692	3.7	-68.105	14.1	5.6	2.0	3	0.2	345			3.0	EAR
2012	5	21	20	53	45.7	0.29	R	-53.796	5.9	-62.829	4.6	11.6	1.8	3	0.0	345			3.2	EAR
2012	5	24	3	2	45.8	0.82	R	-56.151	13.0	-71.677	29.2	6.0	3.8	3	0.3	342			2.8	EAR
2012	5	24	8	5	1.6	0.78	R	-55.769	12.2	-71.605	24.1	9.4	5.0	3	0.3	340				
2012	5	24	20	25	45.2	0.31	R	-56.915	11.8	-64.117	25.2	1.7	1.6	3	0.0	353			2.9	EAR
2012	5	24	20	25	57.8	1.06	R	-56.324	19.3	-64.736	29.7	30.6	8.0	2	0.3	352			2.5	EAR
2012	5	29	6	48	30.6	0.57	R	-56.592	9.0	-64.702	17.5	18.9	3.3	2	0.1	352			2.6	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2012	6	1	12	6	53.3	0.75	R	-53.807	5.7	-70.883	8.0	19.8	3.7	4	0.3	332			3.2	EAR
2012	6	6	18	5	40.3	0.51	R	-52.669	8.3	-70.515	14.1	14.9	3.3	2	0.1	352			2.7	EAR
2012	6	11	21	8	49.6	0.31	L	-54.276	5.5	-68.458	3.2	48.2	8.5	2	0.0	321			1.6	
2012	6	20	9	56	33.3	0.61	L	-54.687	1.2	-68.099	1.9	6.1	6.7	2	0.1	223				
2012	6	20	9	56	34.4	0.34	L	-54.651	4.5	-68.179	7.4	10.0	11.5	2	0.0	223				
2012	6	20	9	56	46.5	0.64	L	-54.597	8.2	-68.266	10.3	6.2	5.3	2	0.1	210				
2012	6	20	9	57	25.3	0.43	L	-54.658	1.6	-68.100	4.1	8.9	13.8	2	0.1	209				EAR
2012	6	20	9	57	40.7	0.34	L	-54.651	1.5	-68.137	3.4	14.4	6.5	2	0.0	212			1.5	EAR
2012	6	20	9	58	20.7	0.51	L	-54.667	6.1	-68.106	14.0	6.1	17.3	2	0.1	215			1.3	EAR
2012	6	20	12	35	29.0	0.52	L	-54.634	1.3	-68.087	5.7	6.2	136.3	2	0.1	194			1.6	EAR
2012	6	20	12	36	51.9	0.42	L	-54.626	3.4	-68.085	20.4	6.1	21.7	2	0.1	189			1.4	EAR
2012	6	23	6	31	3.5	1.10	R	-50.017	20.7	-71.162	66.3	24.3	9.0	2	0.3	356			4.2	EAR
2012	6	23	6	31	3.0	0.53	R	-50.453	16.4	-72.613	31.9	30.3	5.2	2	0.1	355			4.2	EAR
2012	6	24	20	5	18.5	0.34	R	-57.335	3.2	-65.984	13.8	19.3	2.6	2	0.1	350			2.7	EAR
2012	6	29	10	28	7.1	0.51	R	-53.219	3.5	-68.221	28.2	11.1	2.5	3	0.2	352			2.4	EAR
2012	7	4	1	17	51.4	0.40	R	-49.810	8.9	-71.988	23.9	7.5	1.9	3	0.2	352			3.6	EAR
2012	7	5	12	21	8.9	0.43	L	-54.513	2.3	-66.666	27.4	3.7	21.1	3	0.1	306			2.4	EAR
2012	7	19	8	46	49.1	0.34	L	-54.601	3.7	-67.550	9.0	2.0	12.2	3	0.0	156			2.3	EAR
2012	7	19	8	47	56.2	0.34	L	-54.617	2.0	-67.506	3.5	13.3	10.5	3	0.0	157			1.7	EAR
2012	7	20	7	40	35.2	0.55	R	-51.513	57.2	-74.990	68.3	14.3	9.9	3	0.2	354			3.4	EAR
2012	7	29	7	19	39.2	0.63	R	-53.526	15.8	-72.521	13.7	23.9	4.4	3	0.2	346			3.1	EAR
2012	7	30	21	17	3.3	0.50	R	-51.525	14.9	-72.984	24.0	19.0	3.6	4	0.2	346			3.5	EAR
2012	8	5	10	8	26.1	0.45	R	-53.639	9.0	-63.374	5.8	6.5	2.9	4	0.2	332			2.3	EAR
2012	8	5	15	20	17.4	0.37	R	-54.598	5.1	-73.618	4.4	29.4	2.1	4	0.1	338			3.2	EAR
2012	8	6	0	49	16.9	0.30	R	-57.014	9.4	-64.904	19.3	25.0	2.5	3	0.0	352			3.1	EAR
2012	8	7	2	51	12.0	0.29	R	-57.129	3.5	-66.574	12.9	30.3	2.2	3	0.0	349			2.7	EAR
2012	8	8	21	16	38.4	0.75	R	-54.485	13.1	-71.907	14.1	23.9	6.6	4	0.3	330			2.8	EAR
2012	8	15	19	22	19.7	0.54	L	-54.577	0.8	-68.041	8.4	12.3	3.5	3	0.1	266			2.2	EAR
2012	8	17	20	38	22.8	1.75	L	-54.585	6.3	-68.044	7.2	10.9	7.4	4	0.7	162			2.1	
2012	8	17	20	41	16.5	0.30	L	-54.605	0.4	-68.086	4.9	5.0	0.0	1	0.0	360				
2012	8	22	18	4	36.0	0.43	R	-54.083	45.0	-58.615	9.8	4.6	5.1	3	0.2	352				EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2012	8	29	9	16	20.8	0.49	R	-54.776	2.8	-69.423	15.2	0.0	4.9	3	0.2	314			2.2	
2012	9	4	5	34	2.8	0.45	R	-50.497	12.3	-66.646	51.7	24.2	3.7	3	0.2	350				EAR
2012	9	7	1	8	53.5	0.43	R	-55.665	3.8	-70.944	5.6	30.1	2.3	4	0.1	331			2.7	EAR
2012	9	7	8	52	49.1	0.54	R	-52.703	16.3	-61.839	16.8	21.9	3.9	3	0.2	347			3.3	EAR
2012	9	9	16	46	0.7	0.51	R	-55.456	24.2	-61.575	12.6	15.3	3.3	3	0.2	351			2.9	EAR
2012	9	11	2	4	48.2	0.52	R	-58.106	32.6	-61.830	54.9	6.1	3.9	3	0.2	355			3.6	EAR
2012	9	11	23	54	57.7	0.34	R	-55.149	4.7	-68.220	11.7	50.6	8.7	3	0.0	309				
2012	9	12	13	42	7.5	0.40	L	-54.532	4.3	-70.123	5.0	23.8	2.6	3	0.1	326			2.4	EAR
2012	9	13	4	49	20.1	0.46	R	-57.272	8.1	-65.798	31.0	8.5	2.6	3	0.2	351			2.8	EAR
2012	9	15	7	47	53.0	0.64	L	-54.695	5.3	-69.481	7.5	13.7	3.0	3	0.2	314			1.7	EAR
2012	9	16	15	39	23.2	0.38	R	-54.097	5.9	-64.305	5.2	25.7	2.2	3	0.1	339			2.3	EAR
2012	9	17	10	0	21.8	0.39	L	-54.693	9.4	-69.066	27.4	0.0	23.6	3	0.1	303			1.7	EAR
2012	9	17	14	57	0.7	0.40	L	-54.697	2.0	-69.388	5.2	0.0	3.0	3	0.1	312			1.8	EAR
2012	9	18	5	37	34.1	0.59	R	-54.968	11.3	-72.128	7.5	19.4	3.6	3	0.2	341			2.7	EAR
2012	9	19	4	26	3.6	0.65	R	-54.149	10.4	-64.381	8.8	19.1	3.6	3	0.2	338			2.4	EAR
2012	9	23	22	11	54.5	0.33	R	-54.074	5.3	-64.334	4.6	18.0	2.0	3	0.1	338			2.8	EAR
2012	9	24	1	39	56.3	0.39	L	-54.638	1.7	-67.672	1.8	6.1	3.9	3	0.1	174			0.5	EAR
2012	10	2	4	15	52.4	0.32	L	-54.593	1.2	-67.552	1.5	5.5	2.8	3	0.1	159			1.6	EAR
2012	10	2	15	24	46.6	0.45	R	-53.247	8.5	-62.305	8.4	16.5	2.6	3	0.2	346			2.9	EAR
2012	10	5	1	4	26.2	19.53	D	-62.100	999.9	-53.365	999.9	700.0	999.9	3	7.7	358			4.4	EAR
2012	10	10	16	15	32.2	0.37	L	-54.634	2.0	-67.513	3.2	8.7	9.6	3	0.1	160			1.8	EAR
2012	10	12	6	24	56.8	0.42	R	-54.248	6.2	-71.231	5.6	31.7	2.3	3	0.1	339			2.3	EAR
2012	10	17	0	20	58.4	0.46	R	-54.669	4.9	-69.030	10.5	87.5	12.5	3	0.1	301			2.2	EAR
2012	10	18	12	2	2.6	0.36	R	-54.564	4.5	-68.275	0.6	2.8	2.3	2	0.0	287			1.5	EAR
2012	10	22	22	44	39.5	0.32	L	-54.343	1.6	-69.349	4.4	3.9	2.6	3	0.0	307			1.9	EAR
2012	11	1	14	22	12.8	0.66	R	-57.302	12.6	-65.486	35.5	21.9	5.3	3	0.3	351			2.5	EAR
2012	11	6	2	52	45.8	0.35	R	-53.874	5.6	-72.105	5.6	12.2	2.6	3	0.1	344			2.4	EAR
2012	11	7	11	27	1.8	0.32	R	-54.213	6.8	-63.485	4.3	23.4	2.1	3	0.1	343			2.3	EAR
2012	11	7	11	33	52.9	0.55	R	-56.024	11.2	-63.845	13.3	20.4	3.5	3	0.1	350			2.6	EAR
2012	11	8	16	40	13.8	0.33	R	-51.892	17.8	-74.771	20.6	6.9	2.5	3	0.1	353			2.9	EAR
2012	11	9	10	31	59.2	0.42	R	-54.659	10.6	-73.297	5.6	27.5	2.6	3	0.1	346			3.9	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2012	11	10	10	44	58.3	0.34	L	-54.416	3.4	-69.733	6.7	10.6	2.2	3	0.1	320			2.5	EAR
2012	11	11	9	56	5.7	0.35	R	-56.849	22.1	-64.247	39.8	20.0	0.0	3	0.1	353			2.6	EAR
2012	11	11	23	21	54.5	0.50	R	-54.165	7.2	-64.036	6.6	30.5	3.0	3	0.2	341			2.2	EAR
2012	11	24	9	47	40.9	0.33	L	-54.498	1.4	-68.804	5.0	19.9	1.2	3	0.1	283			2.5	EAR
2012	11	29	12	37	33.1	0.44	R	-56.765	3.9	-67.287	20.3	22.8	2.8	3	0.1	346			2.0	EAR
2012	11	30	19	31	46.5	0.32	R	-51.845	3.3	-65.868	6.9	4.0	1.2	3	0.1	343			2.4	EAR
2012	12	3	3	14	59.0	0.59	R	-54.574	33.9	-58.756	9.5	3.9	3.3	3	0.3	353			3.1	EAR
2012	12	3	13	33	46.8	0.53	R	-57.220	8.0	-64.667	20.7	2.4	2.9	2	0.1	353			2.4	EAR
2012	12	11	9	8	27.6	0.31	L	-54.729	2.0	-69.376	4.4	10.0	1.8	3	0.0	312			1.7	EAR
2012	12	11	11	43	29.7	0.53	R	-54.434	3.2	-69.774	6.2	7.5	2.9	3	0.2	321			1.8	EAR
2012	12	11	15	32	45.5	0.34	L	-54.578	1.7	-69.442	4.4	3.2	2.6	3	0.1	313			1.6	EAR
2012	12	13	3	12	10.8	0.61	R	-53.788	24.4	-61.321	13.3	7.5	5.2	3	0.3	348			2.9	EAR
2012	12	13	18	22	33.3	0.32	L	-54.637	1.3	-67.237	3.0	17.7	1.0	3	0.0	276			2.3	EAR
2012	12	15	11	50	27.6	0.35	L	-54.674	8.6	-69.048	25.7	0.0	21.9	3	0.1	302			1.8	EAR
2012	12	18	12	45	0.2	0.30	L	-54.738	1.2	-68.755	2.9	0.0	1.6	2	0.0	337			1.4	EAR
2012	12	19	20	7	34.2	0.45	R	-55.319	15.4	-65.170	17.5	0.8	3.4	3	0.1	345			2.2	EAR
2012	12	19	20	7	34.2	0.45	R	-55.319	15.4	-65.170	17.5	0.8	3.4	3	0.1	345			2.2	EAR
2012	12	19	20	10	8.1	1.67	R	-54.956	32.3	-69.322	36.6	0.0	15.6	3	0.7	315			1.6	EAR
2012	12	20	12	23	35.3	0.35	L	-54.613	1.9	-67.504	2.9	10.3	7.3	3	0.1	160			1.6	EAR
2012	12	26	10	7	12.2	0.37	L	-54.638	1.3	-67.651	8.5	6.1	11.1	2	0.0	187			0.7	EAR
2012	12	27	3	31	49.5	0.48	L	-54.716	2.9	-69.172	5.5	10.0	2.7	3	0.2	306			1.9	EAR
2012	12	27	19	32	43.0	1.61	R	-57.403	20.0	-65.466	71.5	0.0	7.7	2	0.3	351			2.4	EAR
2012	12	30	7	35	15.6	0.36	L	-54.538	1.8	-69.531	4.6	0.0	2.7	3	0.1	315			1.9	EAR
2012	12	31	13	28	41.4	0.42	R	-54.208	5.8	-64.796	5.4	25.8	2.3	3	0.1	336			2.5	EAR
2012	12	31	17	9	43.0	0.54	R	-54.355	7.8	-64.842	6.7	20.7	2.9	3	0.2	336			2.5	EAR
2012	12	31	17	48	11.3	0.33	R	-54.975	6.0	-64.372	5.2	16.5	2.4	3	0.1	345			2.1	EAR
2013	1	4	2	57	1.6	0.27	L	-53.050	2.6	-68.864	8.2	19.4	0.0	1	0.0	360	2.4			
2013	1	16	23	20	52.8	0.34	R	-49.810	9.6	-71.926	27.3	8.9	2.5	4	0.1	353			3.1	EAR
2013	1	17	8	7	57.5	0.31	L	-54.698	2.7	-69.534	4.1	32.3	1.9	2	0.0	315			1.8	EAR
2013	1	18	17	30	58.1	0.33	L	-54.563	6.2	-67.316	1.4	6.2	9.0	2	0.0	229			1.3	EAR
2013	1	18	17	37	46.9	0.34	L	-54.590	3.0	-68.176	6.0	9.8	9.5	3	0.0	165			1.2	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2013	1	19	3	50	35.2	0.48	R	-56.020	14.7	-71.196	12.7	29.2	2.9	4	0.2	340			2.3	EAR
2013	1	23	3	9	25.9	0.66	L	-54.658	2.1	-67.553	2.2	6.2	5.5	4	0.2	151			1.7	EAR
2013	1	23	8	11	2.3	0.41	L	-54.765	1.9	-69.270	5.1	9.3	2.0	3	0.1	299			1.9	EAR
2013	1	26	1	18	45.9	0.33	R	-57.382	2.8	-66.406	16.5	3.8	1.6	4	0.1	347			3.1	EAR
2013	1	26	4	47	17.7	0.32	R	-56.939	2.7	-67.118	12.3	26.9	1.9	4	0.1	343			2.5	EAR
2013	2	5	1	45	26.9	0.92	L	-54.154	2.5	-68.271	8.6	11.7	21.6	4	0.3	181			1.6	EAR
2013	2	8	9	20	3.1	0.73	L	-54.539	2.4	-69.193	8.0	15.0	2.8	4	0.3	280			1.7	EAR
2013	2	8	23	35	18.7	0.34	R	-53.613	12.7	-63.330	14.7	8.2	2.7	3	0.1	343			2.9	EAR
2013	2	20	23	29	9.8	0.56	R	-57.219	5.7	-66.155	22.1	21.1	3.7	2	0.1	350			2.4	EAR
2013	2	24	10	31	11.3	0.33	L	-54.646	3.6	-70.190	4.2	17.9	2.2	3	0.1	327			1.7	EAR
2013	2	27	18	33	57.0	0.38	R	-52.783	17.1	-73.836	9.9	1.6	2.5	3	0.1	351			2.7	EAR
2013	3	6	8	36	36.0	0.46	R	-53.934	6.9	-62.904	5.7	15.6	2.3	3	0.2	345			2.5	EAR
2013	3	6	10	37	38.5	0.38	L	-54.775	1.7	-69.336	5.2	5.4	2.9	3	0.1	302			2.0	EAR
2013	3	13	14	37	32.5	0.44	L	-54.215	1.2	-68.553	4.6	3.1	5.0	2	0.1	219			1.7	EAR
2013	3	17	23	12	35.1	0.47	R	-57.048	6.6	-64.925	17.0	19.8	3.5	3	0.2	348			2.6	EAR
2013	3	17	23	16	5.0	0.73	R	-56.927	11.3	-64.272	21.1	11.7	3.7	3	0.3	349			1.8	EAR
2013	3	17	23	27	23.4	0.33	R	-57.198	4.9	-65.534	11.3	26.8	2.6	3	0.1	347			2.2	EAR
2013	3	18	7	47	45.0	0.69	R	-57.385	17.6	-63.391	37.3	20.5	3.8	3	0.3	351			2.4	EAR
2013	3	18	7	56	43.9	0.42	L	-54.474	1.9	-69.865	5.7	3.6	3.2	3	0.1	308			1.7	EAR
2013	3	21	6	15	23.5	0.39	L	-54.740	3.6	-69.239	5.4	16.3	2.0	3	0.1	295			2.1	EAR
2013	3	22	20	24	50.6	0.40	R	-56.428	7.2	-70.083	10.3	22.7	3.1	2	0.1	341			2.6	EAR
2013	3	25	10	31	13.2	0.72	R	-56.710	8.6	-70.645	24.6	7.6	5.5	2	0.2	353			3.1	EAR
2013	4	1	0	41	59.9	0.41	R	-54.081	17.7	-59.936	8.1	20.6	3.4	3	0.1	350			2.6	EAR
2013	4	5	12	36	56.8	0.62	L	-54.766	19.3	-68.445	3.5	23.2	11.0	2	0.1	193			2.2	EAR
2013	4	8	8	1	46.3	0.87	L	-54.936	3.5	-68.707	8.3	0.0	5.6	2	0.2	320			2.6	EAR
2013	4	8	20	9	23.0	0.72	R	-54.067	16.4	-60.648	9.7	17.1	4.3	3	0.3	349			2.9	EAR
2013	4	13	13	9	43.9	0.46	L	-54.623	2.5	-68.722	3.6	0.0	7.2	2	0.1	241			2.1	EAR
2013	4	18	1	0	52.1	0.54	R	-54.108	12.1	-71.791	13.1	23.9	4.2	3	0.2	336			2.5	EAR
2013	4	27	14	27	46.2	0.44	R	-53.860	8.5	-72.138	7.8	18.2	4.9	2	0.0	338			2.6	EAR
2013	4	27	19	22	3.0	13.11	L	-54.737	238.8	-70.462	999.9	0.0	723.7	3	3.2	324			2.3	EAR
2013	4	27	21	11	44.1	0.27	R	-51.712	6.1	-71.620	15.6	17.8	0.0	1	0.0	360	1.3			EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2013	4	28	0	21	47.5	0.52	R	-51.672	9.4	-63.669	15.2	23.4	3.2	2	0.1	351			3.1	EAR
2013	5	17	18	53	22.6	0.27	R	-57.258	15.4	-60.571	19.5	6.4	0.0	1	0.0	360			3.2	EAR
2013	5	31	17	46	29.8	0.65	R	-53.683	9.0	-71.840	11.7	16.3	3.8	3	0.2	338			2.9	EAR
2013	6	2	13	47	34.2	0.27	R	-49.991	15.3	-75.636	22.9	63.8	0.0	1	0.0	360			3.3	EAR
2013	6	10	8	20	23.4	0.46	L	-54.582	2.2	-69.401	6.4	30.3	2.6	4	0.1	293			2.3	EAR
2013	6	14	2	51	40.1	0.33	R	-52.387	7.0	-73.616	8.9	8.3	2.6	3	0.1	348			3.3	EAR
2013	6	14	21	35	51.7	0.52	R	-54.353	8.4	-64.990	6.3	23.4	3.4	3	0.2	335			2.5	EAR
2013	6	16	15	43	19.4	0.30	L	-54.433	4.3	-65.962	4.9	32.1	0.0	1	0.0	360	2.1			EAR
2013	6	18	21	24	56.7	0.95	R	-50.939	33.6	-63.304	68.5	13.4	6.0	3	0.4	353			3.7	EAR
2013	6	20	3	20	33.8	0.48	R	-52.249	13.2	-62.391	13.3	4.6	2.1	3	0.2	350			3.8	EAR
2013	7	2	13	35	5.8	0.44	L	-54.599	1.2	-68.247	5.1	14.8	2.2	3	0.1	206			2.1	EAR
2013	7	3	19	34	29.9	0.41	L	-54.584	5.0	-69.532	5.0	16.0	4.1	3	0.1	299			2.3	EAR
2013	7	4	1	44	37.1	0.30	L	-54.884	2.2	-67.089	5.7	20.0	0.0	1	0.0	360	1.9			EAR
2013	7	10	23	43	37.9	0.53	R	-56.207	4.4	-66.951	13.6	22.1	2.6	3	0.1	347			2.7	EAR
2013	7	10	23	48	25.3	0.31	L	-54.779	0.7	-67.981	4.7	6.9	69.4	2	0.0	302	0.4			EAR
2013	7	12	9	33	36.7	0.73	R	-51.865	13.0	-73.434	19.2	1.1	2.6	3	0.3	349			3.5	EAR
2013	7	17	9	3	37.6	0.68	R	-54.047	7.9	-64.162	7.9	25.7	3.2	3	0.3	340			3.2	EAR
2013	7	22	0	5	52.6	0.36	R	-57.906	18.0	-76.884	20.9	21.5	3.1	3	0.1	354			3.6	EAR
2013	7	30	4	31	55.8	0.30	R	-52.365	5.2	-68.567	12.5	20.0	0.0	1	0.0	360	2.5			EAR
2013	8	2	10	15	30.2	0.74	R	-56.036	20.0	-74.421	16.9	30.0	5.8	3	0.3	349			2.7	EAR
2013	8	10	9	10	23.7	0.31	L	-54.666	1.1	-68.150	5.3	5.5	1.4	3	0.0	231			2.4	EAR
2013	8	10	9	18	11.6	0.43	L	-54.637	2.3	-67.969	9.8	23.7	2.4	3	0.1	249			2.2	EAR
2013	8	10	9	20	49.9	0.52	L	-54.584	1.1	-68.451	2.1	8.3	6.0	3	0.1	192			2.3	EAR
2013	8	24	0	55	3.9	0.30	R	-53.703	25.9	-57.030	15.8	20.0	0.0	1	0.0	360	3.6			EAR
2013	8	26	1	43	14.6	0.47	L	-54.583	1.7	-68.346	8.8	10.8	3.7	4	0.2	172			2.1	EAR
2013	8	26	3	42	21.3	0.83	L	-54.611	3.1	-68.126	14.6	13.1	7.5	4	0.3	204			3.2	EAR
2013	8	26	4	11	57.3	0.47	L	-54.581	1.8	-68.310	9.7	12.4	2.9	4	0.2	166			1.9	EAR
2013	8	27	15	31	31.2	0.51	R	-54.908	19.2	-60.139	7.0	25.4	3.4	3	0.2	350			3.4	EAR
2013	8	28	3	1	1.4	0.61	R	-54.141	6.0	-71.426	8.3	25.0	4.2	3	0.2	333			2.7	EAR
2013	8	28	3	5	26.5	0.31	L	-54.007	2.3	-69.450	6.8	15.0	2.2	3	0.0	302			2.1	EAR
2013	9	2	9	16	50.4	0.34	L	-54.641	2.6	-69.622	9.7	12.2	2.5	2	0.0	322			1.7	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2013	9	2	9	35	30.0	0.36	L	-54.640	2.5	-69.650	4.1	5.0	2.7	3	0.1	323			1.7	EAR
2013	9	4	0	35	57.6	0.40	R	-53.130	31.4	-78.193	15.9	29.0	7.4	3	0.1	352			3.0	EAR
2013	9	6	4	16	28.0	0.34	L	-54.656	3.1	-68.288	0.9	11.0	2.8	2	0.0	352			2.1	EAR
2013	9	6	4	25	15.1	0.31	L	-54.606	1.9	-68.170	5.9	12.7	3.2	3	0.0	264			2.2	EAR
2013	9	6	4	26	23.9	0.47	L	-54.575	1.2	-68.443	9.4	4.9	5.6	2	0.1	268			2.2	EAR
2013	9	6	4	28	31.9	0.37	L	-54.605	3.1	-68.244	7.1	14.7	4.3	2	0.0	303			2.0	EAR
2013	9	6	4	29	11.4	0.34	L	-54.613	3.1	-68.296	4.3	6.3	2.5	2	0.0	323			2.3	EAR
2013	9	6	4	30	51.3	0.61	L	-54.597	4.3	-68.258	14.8	14.6	5.0	2	0.1	289			2.0	EAR
2013	9	6	4	35	50.0	0.34	L	-54.613	3.0	-68.281	30.4	15.0	4.1	2	0.0	343			2.0	EAR
2013	9	6	12	34	28.7	0.34	L	-54.580	1.0	-68.426	9.6	5.2	4.6	2	0.0	269			2.1	EAR
2013	9	6	18	43	10.0	0.33	R	-53.066	17.8	-63.406	9.5	22.1	2.6	3	0.1	347			3.0	EAR
2013	10	22	18	29	15.8	0.83	R	-52.105	31.8	-73.797	26.4	29.0	6.9	2	0.2	356			4.3	EAR
2013	11	5	8	7	20.1	0.31	L	-54.561	3.1	-67.454	7.7	6.2	6.8	3	0.0	278			2.4	EAR
2013	11	17	9	5	1.6	7.97	D	-60.629	30.8	-46.454	58.1	0.0	47.9	7	7.7	167				
2013	11	25	5	10	37.2	0.59	R	-54.200	23.9	-58.901	11.8	7.1	5.4	2	0.2	353			4.7	EAR
2013	11	25	6	27	10.4	0.42	D	-53.771	14.6	-55.890	6.1	15.0	0.0	2	0.1	358			6.1	EAR
2013	11	26	0	6	50.8	0.40	R	-54.292	16.4	-58.949	7.1	40.9	12.4	2	0.1	353			3.2	EAR
2013	11	26	12	47	52.0	0.68	R	-54.296	11.2	-63.345	9.5	6.0	2.8	2	0.2	347			3.3	EAR
2013	11	27	7	5	33.3	0.61	R	-54.093	23.6	-59.271	10.6	48.4	18.5	2	0.2	353			3.5	EAR
2013	11	27	9	24	17.5	0.40	R	-53.234	39.4	-53.904	14.0	5.4	2.8	2	0.1	356			4.0	EAR
2013	11	27	19	0	48.0	0.76	R	-54.082	27.6	-59.313	12.8	80.2	21.8	3	0.3	351			3.8	EAR
2013	11	28	9	8	49.7	0.71	R	-54.366	22.6	-59.224	12.4	14.0	6.0	3	0.2	351			3.6	EAR
2013	11	29	2	4	28.1	0.50	R	-53.561	54.6	-58.703	11.0	15.7	4.6	3	0.2	352			3.6	EAR
2013	12	17	4	5	21.4	1.07	D	-55.605	44.2	-59.314	91.5	15.9	54.0	5	0.5	203			3.7	EAR
2014	1	6	12	6	36.6	0.40	R	-54.563	10.1	-72.364	7.1	15.2	3.0	2	0.1	358			3.3	EAR
2014	1	9	13	49	52.7	0.30	L	-54.417	3.3	-68.357	2.4	15.0	0.0	1	0.0	360			2.1	EAR
2014	1	15	7	3	41.3	0.99	R	-59.054	20.7	-72.412	53.9	6.8	8.9	2	0.3	351			3.2	EAR
2014	1	15	12	22	47.5	0.37	R	-58.912	4.8	-70.938	21.1	57.6	10.9	3	0.1	351			2.7	EAR
2014	1	18	9	29	54.5	0.58	R	-59.409	6.6	-70.257	39.3	0.0	3.8	2	0.2	352			3.1	EAR
2014	1	20	3	2	53.8	0.29	R	-57.274	9.6	-74.457	3.5	31.7	0.0	2	0.0	349			3.0	EAR
2014	1	21	18	18	18.4	0.29	R	-53.626	8.2	-59.336	5.6	43.0	8.3	3	0.0	349			3.0	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2014	1	22	11	8	41.7	0.30	L	-54.572	1.6	-68.005	4.0	14.8	10.8	3	0.0	240			1.7	EAR
2014	1	23	10	3	27.9	0.55	R	-53.657	7.6	-63.010	7.2	11.8	3.3	3	0.1	341			2.5	EAR
2014	1	27	13	30	37.7	0.84	L	-54.722	6.3	-67.484	21.8	21.6	3.5	3	0.2	265			1.8	EAR
2014	1	29	6	43	39.7	0.60	R	-53.928	21.6	-61.235	9.2	4.9	3.6	3	0.2	346			3.2	EAR
2014	1	30	20	42	31.3	1.00	R	-53.595	27.8	-59.094	17.1	52.3	29.1	3	0.3	350			3.2	EAR
2014	2	1	3	58	54.1	0.30	D	-50.931	53.3	-33.483	37.6	0.0	0.0	1	0.0	360				
2014	2	4	9	49	16.8	0.58	R	-58.401	7.4	-70.637	33.6	1.2	3.6	3	0.2	350			2.8	EAR
2014	2	5	23	31	31.0	0.72	R	-56.245	5.9	-69.441	12.3	30.7	4.0	2	0.2	339			2.7	EAR
2014	2	11	22	27	29.7	0.31	L	-54.416	2.5	-69.465	6.0	11.7	1.7	3	0.0	314			2.1	EAR
2014	2	15	21	38	10.3	0.27	R	-51.142	5.3	-69.894	17.5	1.9	0.0	1	0.0	360			2.5	EAR
2014	2	22	7	38	4.0	1.13	R	-53.920	35.3	-58.832	21.2	4.3	7.4	3	0.5	350			3.3	EAR
2014	2	22	8	30	55.0	0.95	R	-53.424	28.5	-58.884	20.5	3.0	6.2	3	0.5	350			3.3	EAR
2014	2	22	10	15	10.2	1.64	R	-59.083	36.3	-72.117	104.2	25.3	15.0	3	0.8	351			3.2	EAR
2014	2	25	1	41	31.6	0.96	R	-59.927	10.7	-67.176	121.4	0.0	0.0	1	0.3	360			2.9	EAR
2014	2	25	15	43	56.3	0.83	R	-58.850	17.1	-64.670	76.9	2.3	5.1	2	0.2	359			3.2	EAR
2014	2	25	22	26	29.5	0.88	L	-54.432	5.6	-69.358	21.3	5.6	6.9	3	0.2	311			2.0	EAR
2014	2	27	5	11	8.7	1.54	R	-60.196	20.0	-69.989	156.7	0.0	8.8	2	0.4	354			3.6	EAR
2014	2	27	6	11	30.2	0.72	R	-57.309	31.0	-60.369	39.0	0.2	4.6	2	0.2	357			3.6	EAR
2014	2	27	6	38	15.4	0.44	R	-55.335	7.8	-63.632	7.4	32.3	3.2	2	0.1	350			3.4	EAR
2014	3	6	1	38	42.4	0.27	R	-53.699	4.6	-64.610	6.0	23.7	0.0	1	0.0	360			2.2	EAR
2014	3	14	21	3	4.3	0.54	R	-53.173	10.2	-62.772	11.3	10.7	3.8	3	0.2	343			2.9	EAR
2014	3	25	9	42	10.8	0.31	L	-54.591	1.4	-66.648	4.9	14.0	2.5	2	0.0	296			2.2	EAR
2014	4	26	1	34	50.9	0.41	R	-53.953	15.8	-77.183	7.2	57.5	12.4	2	0.1	353			3.7	EAR
2014	4	27	2	3	18.5	0.48	R	-54.874	9.3	-64.776	7.4	27.4	3.7	2	0.1	344			2.8	EAR
2014	5	13	6	48	36.7	0.27	R	-52.709	14.0	-75.672	9.0	29.6	0.0	1	0.0	360			4.0	EAR
2014	5	15	8	55	24.5	0.30	R	-55.837	19.2	-59.340	11.4	15.0	0.0	1	0.0	360			4.1	EAR
2014	6	15	2	21	53.3	0.90	R	-55.239	44.4	-59.815	24.8	32.0	7.6	2	0.2	357			3.8	EAR
2014	6	21	5	6	51.6	0.30	L	-52.703	4.8	-69.276	7.0	20.0	0.0	1	0.0	360			2.7	EAR
2014	8	27	7	50	26.6	0.31	L	-54.440	2.7	-68.656	3.2	26.6	1.3	2	0.0	346			2.3	EAR
2014	8	27	7	59	36.8	0.34	L	-54.589	5.2	-68.757	5.3	20.4	1.9	2	0.0	348			3.3	EAR
2014	8	27	8	10	43.9	0.34	L	-54.573	5.2	-68.735	5.2	20.7	1.9	2	0.0	347			2.3	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2014	8	27	8	27	54.2	0.32	L	-54.576	26.2	-68.392	7.5	0.0	36.7	2	0.0	341			2.2	EAR
2014	9	22	15	6	11.2	0.32	R	-54.374	2.9	-69.864	5.8	22.3	2.4	2	0.0	324			2.5	EAR
2014	9	27	11	46	55.8	0.39	R	-54.663	4.8	-69.662	28.2	8.1	15.1	2	0.0	318			2.3	EAR
2014	10	1	15	18	17.0	0.53	R	-58.248	5.5	-67.564	39.9	0.0	0.0	1	0.1	360			2.5	EAR
2014	10	5	4	6	28.2	0.27	R	-55.181	3.6	-69.557	4.7	31.9	0.0	1	0.0	360			2.0	EAR
2014	10	5	11	6	6.1	0.27	R	-55.769	5.3	-70.468	6.6	28.8	0.0	1	0.0	360			2.3	EAR
2014	10	7	4	21	18.4	0.27	R	-59.222	14.7	-74.530	29.6	14.9	0.0	1	0.0	360			3.2	EAR
2014	11	15	10	43	8.7	0.27	R	-52.951	24.6	-55.860	14.8	3.9	0.0	1	0.0	360			3.8	EAR
2014	11	18	16	38	7.5	0.27	R	-48.427	14.2	-61.269	36.5	5.0	0.0	1	0.0	360			3.3	EAR
2014	11	24	6	45	48.6	0.30	L	-54.637	1.0	-67.129	4.6	5.0	0.0	1	0.0	360			1.7	EAR
2014	12	2	21	41	12.2	0.44	L	-54.472	3.0	-69.275	8.9	8.4	2.5	3	0.1	308			2.1	EAR
2014	12	6	1	6	27.6	0.30	L	-54.555	2.9	-65.607	5.6	10.0	0.0	1	0.0	360			1.7	EAR
2014	12	6	13	53	49.2	0.30	R	-53.004	5.1	-65.919	9.2	0.0	0.0	1	0.0	360			2.3	EAR
2014	12	8	20	24	0.4	0.66	L	-54.466	8.8	-71.470	9.1	21.6	4.2	3	0.1	337			2.6	EAR
2014	12	15	23	55	28.9	0.30	R	-59.686	6.9	-64.391	35.4	0.0	0.0	1	0.0	360			2.7	EAR
2014	12	16	23	39	5.4	0.27	R	-54.790	8.7	-62.236	4.6	3.9	0.0	1	0.0	360			2.4	EAR
2014	12	20	22	21	8.1	0.28	R	-51.448	8.0	-71.448	17.1	0.0	0.0	1	0.0	360			2.8	EAR
2014	12	22	2	7	46.9	0.41	L	-54.414	3.4	-69.611	6.1	14.2	2.1	3	0.1	318			2.0	EAR
2014	12	22	16	32	54.6	0.41	L	-54.603	3.9	-66.656	5.9	29.7	2.5	2	0.1	343			3.1	EAR
2014	12	24	2	24	54.9	0.27	R	-51.721	7.6	-71.410	15.2	12.6	0.0	1	0.0	360			2.7	EAR
2014	12	29	17	42	2.0	1.23	D	-49.442	230.4	-31.965	181.7	0.0	0.0	1	0.3	360				
2015	1	1	6	21	15.6	0.33	L	-54.675	4.1	-69.454	9.6	11.2	4.1	2	0.0	313			2.1	EAR
2015	1	3	11	43	31.9	0.30	L	-56.200	2.4	-68.986	4.9	30.8	1.6	2	0.0	338			2.3	EAR
2015	1	10	16	5	11.0	0.55	R	-52.912	13.1	-73.723	13.3	10.1	4.7	3	0.2	348			4.5	EAR
2015	1	16	3	59	58.0	0.30	R	-51.766	3.3	-65.101	7.2	30.7	1.7	3	0.0	344			2.9	EAR
2015	1	20	6	14	51.7	0.27	R	-53.396	6.1	-70.906	7.4	8.2	0.0	1	0.0	360			2.3	EAR
2015	1	22	21	27	46.3	0.30	R	-56.481	2.4	-68.761	11.0	25.6	1.9	3	0.0	342			3.2	EAR
2015	1	26	11	21	17.1	0.75	R	-53.506	23.1	-58.763	15.9	3.5	4.9	3	0.3	350			4.2	EAR
2015	2	1	11	50	40.1	0.46	R	-53.985	6.9	-72.051	7.3	12.6	3.7	3	0.2	341			3.6	EAR
2015	2	1	12	33	31.3	2.27	R	-55.074	39.9	-72.148	29.2	30.9	14.9	3	1.0	341			3.4	EAR
2015	2	14	20	34	14.8	0.31	L	-54.774	1.5	-66.512	4.4	9.1	1.9	2	0.0	333			1.9	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2015	2	15	16	34	42.3	0.44	L	-54.873	2.5	-66.646	7.9	24.7	1.8	2	0.1	342			2.5	EAR
2015	2	17	10	3	19.5	0.37	L	-55.080	4.0	-68.085	7.6	24.6	4.8	3	0.0	307			1.5	EAR
2015	2	17	12	51	48.1	0.34	R	-59.214	6.4	-71.596	20.0	27.1	3.0	2	0.1	352			3.4	EAR
2015	2	18	20	27	0.3	0.66	R	-53.964	24.5	-58.488	12.1	24.8	6.1	2	0.2	352			3.1	EAR
2015	2	19	3	6	32.3	0.68	R	-60.220	10.9	-71.006	69.3	15.0	5.4	2	0.1	353			3.3	EAR
2015	2	28	1	51	43.4	0.57	R	-56.515	5.2	-66.575	17.8	33.1	3.5	2	0.1	352			2.0	EAR
2015	2	28	17	5	40.1	0.33	L	-54.784	5.8	-69.952	31.0	28.9	16.7	2	0.0	323			2.4	EAR
2015	3	4	7	11	39.0	0.60	L	-54.817	9.8	-69.645	42.7	0.0	16.8	2	0.1	318			2.2	EAR
2015	3	4	7	27	58.9	1.17	R	-53.524	30.3	-61.432	18.4	0.0	6.1	2	0.2	348			3.0	EAR
2015	3	4	10	30	33.3	0.43	L	-54.527	4.4	-69.884	40.0	13.4	21.0	2	0.1	323			2.1	EAR
2015	3	4	12	48	17.4	0.85	L	-55.117	10.2	-70.866	12.0	21.5	5.6	2	0.2	334			2.4	EAR
2015	3	8	18	48	40.4	0.77	L	-54.693	7.2	-67.302	21.0	21.5	4.4	2	0.2	338			1.2	EAR
2015	3	9	17	12	23.2	0.27	L	-55.933	3.1	-65.908	6.5	25.9	0.0	1	0.0	360	2.3			EAR
2015	3	11	12	46	25.5	0.42	L	-54.825	4.1	-70.576	7.4	28.7	2.7	2	0.1	331			2.4	EAR
2015	3	11	16	41	35.1	0.70	D	-62.780	999.9	-69.522	999.9	0.0	999.9	2	0.2	356			3.9	EAR
2015	3	14	0	18	39.4	0.89	R	-57.829	15.2	-65.229	56.1	32.5	7.6	2	0.1	356			3.8	EAR
2015	3	14	13	46	23.7	0.27	R	-57.276	5.9	-70.485	14.3	14.9	0.0	1	0.0	360			2.6	EAR
2015	3	23	0	13	58.2	0.52	L	-54.646	9.6	-67.447	30.0	23.8	11.2	2	0.1	206			2.7	EAR
2015	3	25	18	31	39.6	0.43	L	-54.973	2.7	-67.146	2.8	0.0	2.0	2	0.1	348			2.2	EAR
2015	3	25	23	26	30.0	0.49	L	-54.934	9.8	-69.655	35.6	25.1	19.8	2	0.1	320			2.0	EAR
2015	3	31	4	4	35.6	0.67	R	-54.586	11.5	-72.888	11.2	12.2	5.4	2	0.1	345			2.8	EAR
2015	4	3	9	30	34.9	0.33	L	-54.679	0.4	-67.555	7.5	4.2	6.8	2	0.0	239			2.2	EAR
2015	4	8	0	39	49.9	0.57	R	-56.077	25.1	-59.607	14.8	9.2	4.2	2	0.1	355			3.5	EAR
2015	4	11	8	21	53.3	0.30	R	-55.636	3.5	-70.830	4.5	31.6	2.4	2	0.0	337			2.6	EAR
2015	4	12	20	44	40.7	0.33	R	-56.513	2.9	-66.908	9.5	17.7	2.4	2	0.0	350			2.7	EAR
2015	4	12	22	10	13.9	1.01	R	-53.942	9.7	-64.533	15.9	28.4	7.5	2	0.2	336			2.7	EAR
2015	4	14	5	14	37.8	1.21	R	-53.315	24.8	-72.793	20.6	22.7	9.4	2	0.3	350			3.0	EAR
2015	4	15	21	38	10.1	0.58	L	-54.687	7.0	-67.338	48.4	17.9	6.4	2	0.1	329			2.1	EAR
2015	4	17	19	29	23.9	0.90	R	-56.923	8.0	-66.955	31.1	10.0	6.7	2	0.2	351			2.9	EAR
2015	4	25	14	45	37.9	0.30	R	-57.905	15.5	-74.711	20.8	15.0	0.0	1	0.0	360			2.9	EAR
2015	4	27	6	46	7.1	0.27	R	-54.987	8.0	-72.105	4.7	10.3	0.0	1	0.0	360			3.0	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2015	4	30	0	31	25.4	0.30	R	-53.529	9.2	-62.529	10.5	15.0	0.0	1	0.0	360			2.7	EAR
2015	5	1	7	20	39.0	0.51	R	-51.789	23.2	-74.667	24.0	12.7	3.7	2	0.1	355			3.2	EAR
2015	5	5	18	7	56.7	0.63	R	-54.245	17.0	-62.507	10.4	32.1	6.5	2	0.1	347			2.9	EAR
2015	5	7	2	42	49.0	0.49	L	-54.893	4.2	-67.180	18.3	32.0	2.8	3	0.2	343			2.8	EAR
2015	5	7	2	42	48.2	0.31	L	-54.786	2.6	-68.342	4.4	13.9	1.8	2	0.0	344			2.6	EAR
2015	5	17	4	48	16.1	0.65	R	-54.219	9.2	-64.108	9.5	27.5	4.3	2	0.1	340			2.7	EAR
2015	5	19	2	48	24.0	0.38	L	-54.764	2.1	-69.468	5.3	1.2	3.0	3	0.1	314			2.0	EAR
2015	6	3	6	18	1.1	0.29	R	-53.540	3.4	-65.267	5.2	31.9	1.9	3	0.0	330			2.4	EAR
2015	6	3	6	32	47.7	0.42	L	-54.603	4.6	-70.030	5.2	3.9	2.9	3	0.1	325			2.2	EAR
2015	6	3	23	29	6.5	0.38	R	-53.924	9.9	-61.282	5.3	29.9	2.3	3	0.1	349			3.5	EAR
2015	6	3	23	51	57.5	0.44	L	-54.714	2.7	-69.385	5.1	10.5	2.4	3	0.1	312			2.0	EAR
2015	6	4	11	13	41.0	1.16	R	-55.043	33.7	-62.963	20.0	29.7	7.3	3	0.5	349			2.8	EAR
2015	6	4	18	19	52.5	0.44	R	-58.025	16.2	-62.872	38.8	3.7	2.6	3	0.2	355			3.2	EAR
2015	6	17	22	0	1.2	0.54	R	-56.155	18.3	-63.021	18.4	30.0	4.3	3	0.2	351			3.3	EAR
2015	6	22	12	3	17.0	0.32	L	-54.632	8.6	-67.559	2.2	30.5	3.7	3	0.1	164			2.7	EAR
2015	6	24	5	16	47.7	0.65	R	-54.777	37.1	-58.865	8.6	6.2	0.0	3	0.4	353			3.1	EAR
2015	6	25	3	24	10.8	0.59	R	-57.169	49.4	-63.140	77.2	24.9	0.0	3	0.3	354	3.0			EAR
2015	6	27	10	15	47.3	0.31	R	-54.611	9.8	-71.475	4.9	13.8	1.9	3	0.0	339			4.1	EAR
2015	7	1	15	41	36.3	0.36	L	-54.586	7.5	-68.110	13.5	6.1	11.7	3	0.1	162			2.2	EAR
2015	7	1	16	17	56.8	0.38	L	-54.590	1.4	-68.112	1.4	6.0	4.0	3	0.1	165			2.0	EAR
2015	7	4	10	26	53.4	0.35	L	-54.771	2.0	-69.281	4.8	5.8	2.8	2	0.0	347			1.8	EAR
2015	7	12	11	14	29.4	0.44	R	-56.072	7.1	-70.931	19.6	24.1	2.8	3	0.1	340			3.0	EAR
2015	7	12	11	52	37.2	0.31	L	-54.705	1.9	-67.693	1.6	14.5	6.0	3	0.0	205			2.5	EAR
2015	7	14	9	59	15.5	0.32	R	-57.037	4.3	-66.022	19.9	24.7	2.0	3	0.1	350			3.2	EAR
2015	7	16	22	19	2.6	0.56	R	-54.981	11.3	-63.247	9.1	24.3	2.8	3	0.2	348			3.1	EAR
2015	7	17	13	49	2.6	0.39	L	-55.483	3.1	-68.521	5.2	8.7	2.2	3	0.1	325			2.8	EAR
2015	7	18	17	23	56.2	0.68	R	-56.167	15.7	-72.308	26.6	29.7	6.0	3	0.2	344			3.3	EAR
2015	7	21	22	2	15.3	0.34	L	-54.309	9.2	-70.963	6.9	30.7	2.1	3	0.1	337			2.5	EAR
2015	7	23	21	9	7.3	0.87	R	-54.023	36.4	-58.752	14.4	36.7	35.0	3	0.4	352			3.6	EAR
2015	7	27	1	25	31.5	0.37	R	-54.270	13.2	-64.104	8.7	22.5	3.2	3	0.1	341			3.2	EAR
2015	7	27	1	33	13.4	0.32	R	-53.966	5.5	-64.049	4.6	9.9	2.0	3	0.1	340			2.6	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2015	7	27	1	36	52.0	0.47	R	-54.301	8.4	-64.132	5.9	25.6	3.0	3	0.2	341			2.9	EAR
2015	7	27	1	52	36.3	0.38	R	-54.304	13.6	-64.136	7.3	25.8	2.9	3	0.1	341			2.9	EAR
2015	7	27	2	1	55.3	1.01	R	-54.259	14.0	-64.079	14.1	28.2	6.2	3	0.2	341			2.7	EAR
2015	7	27	2	48	33.2	0.49	R	-57.728	5.0	-67.359	33.1	2.6	2.1	3	0.2	350			2.9	EAR
2015	7	28	21	57	41.1	1.14	D	-58.249	5.9	-61.504	14.0	35.0	27.1	7	0.4	150			3.4	EAR
2015	7	29	6	2	44.5	0.71	R	-58.514	49.0	-61.261	98.0	29.7	4.6	3	0.3	356			3.5	EAR
2015	8	1	12	18	30.4	0.41	R	-53.800	8.6	-71.914	6.9	0.0	1.9	3	0.1	344			2.4	EAR
2015	8	8	15	1	46.5	0.37	R	-56.935	4.0	-68.915	11.7	6.2	2.4	2	0.1	347			2.8	EAR
2015	8	9	5	13	8.6	0.56	R	-57.106	4.4	-67.734	19.8	8.9	3.6	3	0.1	348			3.2	EAR
2015	8	10	10	21	29.4	6.25	D	-64.927	503.2	-84.319	999.9	0.0	999.9	5	2.5	309				
2015	8	10	10	23	42.8	0.34	R	-58.549	4.3	-68.091	26.9	27.3	2.9	2	0.0	352			2.9	EAR
2015	8	14	15	2	0.7	0.92	R	-56.535	11.0	-70.712	31.7	8.3	5.8	3	0.4	342			3.1	EAR
2015	8	25	13	14	11.7	0.72	R	-57.150	36.5	-62.642	50.0	3.8	3.6	3	0.3	354			3.1	EAR
2015	8	25	22	38	39.9	0.40	R	-54.162	12.7	-64.133	8.5	25.9	2.6	3	0.1	340			3.0	EAR
2015	8	26	17	4	12.5	0.64	R	-54.521	58.8	-52.771	14.3	19.4	6.0	2	0.2	356			3.6	EAR
2015	9	6	5	15	37.7	0.35	D	-60.478	4.4	-48.895	2.1	20.5	7.5	3	0.1	167			4.8	EAR
2015	9	6	5	15	39.4	1.07	D	-60.381	74.5	-48.927	113.8	57.0	829.9	3	0.4	170			4.8	EAR
2015	9	7	17	53	4.2	0.34	L	-54.770	2.2	-69.336	4.8	8.5	2.1	3	0.1	311			2.1	EAR
2015	9	8	21	6	16.1	0.34	L	-54.231	3.5	-70.322	4.4	22.7	1.8	3	0.1	330			2.4	EAR
2015	9	8	21	6	16.8	1.04	L	-54.322	4.3	-70.309	11.5	24.2	4.3	4	0.4	279			2.4	EAR
2015	9	8	21	33	31.4	0.43	R	-51.668	13.7	-73.604	21.7	12.2	3.6	3	0.2	353			3.5	EAR
2015	9	21	15	41	41.4	0.51	R	-57.055	13.0	-69.874	49.4	32.0	8.1	3	0.2	345			3.1	EAR
2015	9	26	9	24	39.7	0.71	L	-54.737	3.6	-69.632	5.2	3.5	4.5	4	0.3	279			2.1	EAR
2015	9	26	9	24	40.1	0.46	L	-54.755	2.8	-69.562	6.9	1.2	3.7	3	0.1	316			2.1	EAR
2015	10	2	13	3	30.3	0.55	R	-54.529	10.8	-64.228	8.5	23.4	3.7	3	0.2	342			3.0	EAR
2015	10	9	8	35	16.3	0.59	L	-54.724	3.4	-69.386	4.2	2.5	4.5	4	0.2	274			2.3	EAR
2015	10	9	8	35	17.0	0.42	L	-54.823	3.2	-69.276	4.9	13.6	1.9	3	0.1	311			2.3	EAR
2015	10	9	11	47	9.3	0.33	R	-53.045	32.8	-58.129	23.0	60.5	8.0	3	0.1	352			3.3	EAR
2015	10	9	11	51	30.5	0.65	R	-53.783	25.6	-58.989	14.0	4.1	4.1	3	0.3	352			3.3	EAR
2015	10	20	20	33	12.9	3.83	D	-57.270	8.6	-65.466	30.0	0.1	31.7	6	1.5	150			5.0	EAR
2015	11	7	17	57	17.1	0.90	R	-55.861	23.3	-63.085	23.4	22.9	5.1	3	0.4	351			2.8	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2015	11	8	13	15	25.7	0.60	R	-53.046	16.6	-74.183	10.8	0.0	2.9	3	0.1	351			3.2	EAR
2015	11	13	18	37	50.2	1.20	R	-53.932	69.8	-58.887	19.5	0.0	6.6	3	0.6	352			3.8	EAR
2015	11	25	19	30	27.1	0.50	R	-54.501	2.3	-67.537	3.5	6.2	499.0	3	0.2	186			3.3	EAR
2015	11	25	19	30	27.2	0.53	L	-54.495	1.4	-67.537	4.9	7.1	3.6	4	0.2	187			3.3	EAR
2015	12	5	18	48	23.9	0.67	L	-53.658	5.7	-72.048	11.2	19.6	4.7	7	0.3	234			3.6	EAR
2015	12	6	12	51	29.1	0.34	R	-56.632	4.2	-69.894	8.5	19.2	2.3	2	0.0	342			2.7	EAR
2015	12	9	1	33	57.6	0.48	R	-56.110	7.5	-64.544	12.2	19.7	3.5	2	0.1	353			2.7	EAR
2015	12	9	1	41	48.9	0.38	R	-55.359	6.5	-64.374	6.8	21.7	2.7	2	0.1	357			2.7	EAR
2015	12	15	15	42	26.5	0.45	R	-56.025	3.4	-67.630	12.1	25.5	2.4	3	0.1	338			2.4	EAR
2015	12	23	0	53	25.6	0.99	R	-56.675	8.3	-68.488	29.4	10.0	6.5	2	0.2	344			2.6	EAR
2015	12	23	20	30	7.3	0.59	L	-54.518	1.1	-67.521	3.0	18.0	0.0	3	0.3	178			2.2	EAR
2015	12	29	8	41	13.7	0.77	R	-55.040	13.8	-54.665	13.9	8.5	6.5	4	0.4	300			3.5	EAR
2015	12	29	17	38	56.3	0.45	R	-56.545	32.2	-64.159	66.2	23.5	3.3	3	0.1	352			3.1	EAR
2016	1	3	23	23	53.8	3.38	R	-56.712	54.6	-74.476	40.4	7.0	28.7	7	1.6	306			3.5	EAR
2016	1	4	10	39	33.8	0.93	L	-55.160	6.4	-67.171	19.8	9.5	4.1	4	0.4	323			2.1	EAR
2016	1	20	8	37	43.4	0.89	R	-55.697	9.1	-71.423	7.5	20.5	6.8	7	0.4	279			2.5	EAR
2016	1	22	3	55	8.5	0.89	R	-56.688	21.5	-70.211	27.5	13.3	7.1	3	0.4	329			2.7	EAR
2016	1	25	23	2	23.1	2.30	D	-54.624	11.7	-57.150	27.5	12.7	49.9	10	0.9	190			4.7	EAR
2016	1	29	4	0	16.7	0.53	R	-54.689	8.1	-69.976	25.1	1.6	12.3	4	0.2	273			2.3	EAR
2016	1	31	3	3	56.6	0.46	R	-56.106	8.7	-71.336	7.3	13.8	3.5	3	0.1	319			2.4	EAR
2016	2	17	20	49	22.3	1.15	R	-54.575	18.6	-69.738	154.0	8.9	78.4	3	0.5	308			2.3	EAR
2016	2	18	12	41	10.6	1.32	R	-56.161	18.2	-71.596	24.1	20.8	10.4	2	0.2	342			2.8	EAR
2016	2	21	8	14	19.2	0.67	R	-55.107	17.2	-60.745	8.7	12.4	5.4	6	0.3	338			3.4	EAR
2016	2	26	9	8	6.9	1.03	R	-54.474	33.8	-59.273	16.5	25.3	10.4	5	0.5	337			3.0	EAR
2016	2	28	14	20	40.7	0.97	L	-54.563	3.8	-68.620	7.8	3.0	9.7	6	0.4	191			3.1	EAR
2016	2	28	15	44	10.7	1.38	R	-54.562	4.9	-68.620	8.3	4.1	9.3	6	0.6	190			3.1	EAR
2016	3	4	18	19	48.1	0.72	R	-55.103	7.2	-66.717	11.8	46.0	14.0	2	0.2	353			1.4	EAR
2016	3	5	2	18	55.2	0.76	R	-54.098	17.0	-61.718	16.6	26.8	5.4	5	0.3	214			3.5	EAR
2016	3	10	3	24	10.3	0.71	R	-57.412	5.7	-66.538	31.0	15.1	5.4	6	0.3	335			4.1	EAR
2016	3	13	7	50	16.9	0.39	R	-56.011	7.4	-71.313	6.0	16.0	3.0	3	0.1	317			2.6	EAR
2016	3	13	7	52	8.8	0.62	R	-56.027	9.5	-70.742	6.4	32.0	4.7	4	0.2	292			2.6	EAR

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Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2016	3	18	10	7	7.2	0.30	L	-54.531	2.5	-67.553	3.6	5.0	0.0	1	0.0	360			1.1	EAR
2016	3	26	3	21	49.4	0.65	R	-50.861	9.9	-72.833	13.5	20.0	4.3	6	0.3	326			3.3	EAR
2016	4	4	1	48	12.2	0.53	L	-54.752	2.4	-69.049	6.7	8.3	6.9	4	0.2	255			2.1	EAR
2016	4	4	15	42	15.2	0.77	R	-52.233	6.3	-72.934	17.9	10.9	6.0	6	0.3	256			2.9	EAR
2016	4	5	7	26	14.9	0.29	L	-54.590	0.9	-67.304	5.0	13.7	2.2	3	0.0	235			1.9	EAR
2016	4	5	16	11	11.3	0.42	R	-55.843	4.2	-69.888	6.7	22.2	3.1	3	0.1	332			2.6	EAR
2016	4	7	3	17	54.5	0.97	L	-54.531	6.9	-69.179	7.2	0.0	11.0	6	0.4	205			2.3	EAR
2016	4	29	6	25	42.8	0.94	R	-56.674	6.8	-67.792	14.4	27.1	7.0	7	0.4	322			2.9	EAR
2016	5	6	3	14	5.7	1.19	R	-57.461	9.3	-66.858	96.3	30.9	7.8	4	0.5	349			2.6	EAR
2016	6	18	20	31	1.7	0.74	R	-52.255	11.7	-75.469	14.0	5.2	4.0	2	0.2	340			3.9	EAR
2016	7	6	13	25	53.4	0.38	L	-53.645	6.3	-65.481	26.7	31.2	16.3	6	0.1	294			3.6	EAR
2016	7	9	7	39	22.1	1.09	R	-54.098	4.9	-70.714	7.6	8.7	5.6	5	0.4	219			3.0	EAR
2016	7	11	21	41	9.9	1.21	R	-57.693	13.8	-69.088	37.4	13.7	10.0	6	0.5	323				
2016	7	11	21	48	34.9	1.71	R	-57.221	15.4	-69.861	29.9	26.5	13.7	7	0.8	287				
2016	7	16	1	18	48.0	0.85	R	-56.728	7.2	-69.520	12.7	24.8	6.6	8	0.4	282				
2016	7	20	4	36	53.1	0.60	R	-55.155	6.0	-67.682	25.1	25.6	3.6	4	0.2	300			2.8	EAR
2016	7	25	17	32	8.0	0.91	R	-52.701	7.6	-69.817	10.2	91.0	15.5	6	0.3	161				
2016	8	30	1	9	39.4	0.44	L	-54.650	4.4	-67.353	2.1	12.3	2.7	2	0.1	315			1.6	EAR
2016	9	4	0	45	31.0	0.39	R	-54.820	3.1	-71.187	6.1	17.2	3.0	3	0.1	296			2.1	EAR
2016	9	16	1	49	36.8	1.19	R	-54.599	18.3	-69.608	24.8	20.9	21.9	6	0.5	219				
2016	9	17	0	34	8.6	0.68	R	-54.527	28.1	-64.951	224.9	0.0	86.0	3	0.3	312			2.2	EAR
2016	9	24	0	18	55.0	0.30	R	-54.750	6.3	-70.899	8.7	0.0	0.0	1	0.0	360				
2016	10	8	3	3	43.2	1.02	D	-54.268	11.2	-67.639	31.3	22.9	7.7	5	0.4	190				
2016	10	8	12	15	45.9	0.31	R	-54.639	2.4	-67.598	10.9	40.2	8.0	3	0.0	147			0.2	EAR
2016	10	9	11	7	13.2	0.32	R	-54.645	0.6	-67.493	1.8	0.0	2.9	3	0.0	145			0.9	EAR
2016	10	10	7	42	17.3	0.87	R	-57.076	32.2	-63.559	58.5	9.5	6.8	4	0.4	351			2.7	EAR
2016	10	19	4	44	7.5	1.34	R	-53.113	43.0	-58.648	70.3	31.3	30.9	4	0.7	235			2.7	EAR
2016	10	24	14	35	35.9	1.15	R	-55.771	14.0	-71.561	12.5	17.0	7.1	4	0.5	296			2.5	EAR
2016	11	20	20	57	45.9	0.30	D	-34.208	20.7	-80.234	71.3	10.0	0.0	1	0.0	360				
2016	11	23	3	31	26.0	0.54	R	-53.214	12.8	-71.392	27.1	90.0	5.8	6	0.2	207				
2016	12	21	1	38	13.5	0.27	L	-54.996	2.5	-68.276	5.8	27.9	0.0	1	0.0	360			2.3	EAR

Ago.2007-Dic.2016

Año	Mes	Día	HH	MM	Seg	Error seg	L	Latitud	Error km	Longitud	Error km	Prof	Error km	NST	RMS	GAP grados	Mc	Fuente	MI	Fuente
2016	12	21	4	39	9.5	1.48	L	-54.961	8.2	-68.073	12.8	0.0	14.5	8	0.6	233			3.3	EAR

L: clasificación Local (L) Regional (R) Distante (D)

GAP: cobertura acimutal residual

NST: cantidad de estaciones utilizadas en el procesamiento

Mc: magnitud estimada con la duración del evento

MI: magnitud local

Los datos procesados corresponden a la red sismológica propia (FCAG-UNLP) y a estaciones de la Red Sismológica Nacional de Chile (doi:<http://dx.doi.org/10.7914/SN/C1>) desde agosto 2015.

Complemento al Catálogo Sismológico de Referencia de Tierra del Fuego (Tierra del Fuego Reference Standard Earthquake Catalogue)
<http://sedici.unlp.edu.ar/handle/10915/118869>

*Procesado en la Estación Astronómica Río Grande con Seisan 8.1 (Universidad de Bergen, Noruega) por Gerardo Connon.
Río Grande, febrero 2017.*