



**ESCUELA POLITECNICA NACIONAL
INSTITUTO GEOFISICO**

Campus Ing. José Rubén Orellana

Apartado 2759 Telf: 2225-655; 2225627
Quito - Ecuador Fax: (593)-2-2567847 - www.igepn.edu.ec

Sismicidad 1993

La siguiente información fue registrada por la Red Nacional de Sismógrafos y procesada en el Instituto Geofísico de la Escuela Politécnica Nacional. Se presentan los sismos de magnitud mayor o igual a 4 en la escala de Richter. La distancia y azimut son determinados con respecto a la ciudad referencial, que es la capital de provincia más cercana al evento.

FECHA -----	TIEMPO -----	LAT. ----	LONG. ----	PROF. km	Mag. ---	DIST. km	AZIMUT grados	CIUDAD referencial
1993/01/01	05:05:02	0.59S	77.91W	5.6	4.0	52.46	349.4°	TENA
1993/01/02	19:21:34	1.01S	78.13W	10.7	4.1	35.09	276.8°	TENA
1993/01/03	08:46:39	0.98S	78.07W	10.9	4.0	29.12	285.4°	TENA
1993/01/04	12:25:34	1.01S	80.37W	4.5	4.0	9.94	62.7°	PORTOVIEJO
1993/02/01	08:39:01	1.07N	77.64W	12.0	4.4	30.34	17.5°	TULCAN
1993/02/01	16:49:42	1.05S	78.27W	12.8	4.4	40.53	108.8°	LATACUNGA
1993/02/02	13:56:19	1.02S	81.21W	9.8	4.8	84.69	272.3°	PORTOVIEJO
1993/02/03	17:11:21	2.91N	80.61W	37.5	4.7	239.82	334.1°	ESMERALDAS
1993/02/03	23:17:12	3.25N	80.57W	35.0	4.4	272.16	338.5°	ESMERALDAS
1993/02/05	13:58:13	2.62S	81.05W	17.5	4.4	136.79	249.6°	GUAYAQUIL
1993/02/05	14:51:06	2.54S	77.77W	254.7	4.0	46.90	122.3°	MACAS
1993/02/07	08:21:03	0.87N	80.55W	36.0	4.0	97.95	263.8°	ESMERALDAS
1993/02/09	19:56:25	1.36S	77.00W	25.9	5.1	97.84	110.9°	TENA
1993/02/10	11:24:23	0.25N	80.13W	36.7	4.0	94.82	212.6°	ESMERALDAS
1993/02/11	05:51:09	0.46N	81.16W	30.8	4.1	174.94	251.2°	ESMERALDAS
1993/02/11	23:51:04	0.47N	79.90W	2.7	4.9	61.13	204.8°	ESMERALDAS
1993/02/12	12:43:02	1.09S	78.85W	3.7	4.2	29.71	303.9°	AMBATO
1993/02/12	17:37:10	0.99S	78.07W	7.8	4.3	28.56	283.5°	TENA
1993/02/12	23:38:13	1.65S	81.35W	20.6	5.4	120.51	236.4°	PORTOVIEJO
1993/02/13	00:19:51	2.64N	79.89W	33.0	5.4	187.41	352.4°	ESMERALDAS
1993/02/14	22:41:08	2.96N	80.16W	25.9	4.4	228.31	346.1°	ESMERALDAS
1993/02/15	15:27:19	1.84S	81.44W	18.2	4.6	140.46	231.4°	PORTOVIEJO
1993/02/16	04:33:40	2.04S	83.50W	19.2	4.5	356.62	252.0°	PORTOVIEJO
1993/02/17	07:10:03	1.52S	81.76W	52.0	4.4	154.51	250.3°	PORTOVIEJO
1993/02/17	11:32:11	1.76S	81.42W	17.6	4.6	133.61	233.9°	PORTOVIEJO
1993/02/17	13:11:34	0.75N	80.33W	30.9	4.1	76.89	251.6°	ESMERALDAS
1993/02/17	16:02:16	1.23S	81.34W	18.1	4.1	100.61	258.4°	PORTOVIEJO
1993/02/17	18:46:33	1.93S	81.62W	17.9	4.3	162.63	233.1°	PORTOVIEJO
1993/02/18	10:40:28	1.52S	80.59W	29.1	4.3	55.03	197.0°	PORTOVIEJO
1993/02/18	12:18:09	1.36S	80.53W	26.7	4.4	35.19	194.7°	PORTOVIEJO
1993/02/19	07:15:15	1.20S	81.62W	30.1	4.4	130.67	262.7°	PORTOVIEJO
1993/02/22	01:32:33	1.42S	81.16W	25.5	4.4	89.38	242.5°	PORTOVIEJO
1993/02/22	02:21:19	0.97S	80.06W	17.0	4.3	43.73	78.1°	PORTOVIEJO
1993/02/22	08:43:34	1.98S	81.65W	7.4	4.4	168.19	232.2°	PORTOVIEJO
1993/02/22	09:15:08	1.55S	82.51W	19.6	4.8	235.88	256.4°	PORTOVIEJO
1993/02/24	05:11:05	1.76S	81.29W	12.8	4.5	121.97	229.9°	PORTOVIEJO
1993/02/25	06:23:00	0.95S	78.06W	2.7	4.3	29.02	292.8°	TENA
1993/02/25	12:10:20	3.24S	78.96W	287.8	4.5	38.73	172.4°	CUENCA
1993/02/25	13:14:04	1.14S	78.21W	14.6	4.0	44.51	256.7°	TENA
1993/02/26	11:26:11	0.89S	80.97W	20.3	4.5	60.61	287.5°	PORTOVIEJO
1993/02/26	21:53:36	4.65N	80.74W	29.0	5.0	426.29	343.7°	ESMERALDAS
1993/02/27	14:58:50	1.83S	78.76W	19.6	4.5	22.07	214.2°	RIOBAMBA
1993/02/27	23:25:20	1.61S	78.03W	161.6	4.1	13.66	199.7°	PUYO

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1993/02/28	01:03:23	0.11N	80.26W	17.4	4.5	115.82	214.3°	ESMERALDAS
1993/02/28	01:07:28	1.28S	78.43W	47.8	4.9	22.83	101.7°	AMBATO
1993/03/02	01:13:32	1.13N	78.80W	4.2	4.1	98.76	79.4°	ESMERALDAS
1993/03/05	05:27:16	1.57S	81.04W	4.6	4.2	87.14	228.9°	PORTOVIEJO
1993/03/05	08:34:20	1.54S	82.04W	50.6	4.3	184.58	253.0°	PORTOVIEJO
1993/03/05	11:59:32	2.11S	82.04W	51.0	4.5	212.87	236.3°	PORTOVIEJO
1993/03/05	13:01:06	3.10S	82.86W	20.4	4.4	322.58	273.1°	MACHALA
1993/03/07	15:08:44	0.06N	78.77W	17.7	4.0	41.79	313.6°	QUITO
1993/03/08	07:13:06	1.83S	79.76W	8.6	4.5	25.56	261.5°	BABAHOYO
1993/03/10	15:02:19	1.68S	79.95W	6.8	4.6	48.38	286.2°	BABAHOYO
1993/03/11	02:59:07	0.97S	77.86W	18.5	4.5	9.76	333.9°	TENA
1993/03/11	18:54:18	1.11S	78.22W	10.4	4.2	45.45	261.2°	TENA
1993/03/14	17:53:03	2.53N	79.54W	28.7	4.4	173.54	4.8°	ESMERALDAS
1993/03/16	03:23:10	0.45S	80.11W	9.2	4.2	77.16	29.7°	PORTOVIEJO
1993/03/16	23:08:04	0.95S	79.57W	10.5	4.5	94.01	357.0°	BABAHOYO
1993/03/25	21:13:13	0.63N	78.56W	22.8	4.2	58.65	301.3°	IBARRA
1993/03/26	08:28:07	0.10N	79.90W	12.2	4.0	99.58	194.9°	ESMERALDAS
1993/03/28	00:47:04	0.95S	79.20W	113.4	4.0	64.53	268.3°	LATACUNGA
1993/03/31	21:09:40	5.07S	81.14W	24.8	5.1	240.13	213.0°	MACHALA
1993/04/01	08:10:01	2.88N	77.37W	260.0	4.4	233.06	9.7°	TULCAN
1993/04/02	19:47:38	0.89N	78.91W	22.0	4.1	84.46	96.0°	ESMERALDAS
1993/04/03	11:08:32	1.96S	80.30W	50.9	4.0	51.43	299.5°	GUAYAQUIL
1993/04/09	18:55:09	1.06S	78.25W	3.2	4.1	43.29	110.2°	LATACUNGA
1993/04/10	20:03:08	2.22S	77.76W	33.2	5.0	41.82	76.9°	MACAS
1993/04/12	16:13:38	1.48S	77.67W	5.0	4.0	35.60	87.4°	PUYO
1993/04/15	00:14:04	0.59N	78.99W	26.3	4.0	86.41	119.2°	ESMERALDAS
1993/04/15	07:37:49	2.25S	82.38W	60.0	4.5	252.40	238.2°	PORTOVIEJO
1993/04/17	01:54:15	2.37S	79.80W	51.8	4.6	22.79	149.8°	GUAYAQUIL
1993/04/17	04:08:07	0.99S	78.12W	15.0	4.0	34.38	281.7°	TENA
1993/04/23	16:23:30	1.06S	78.27W	5.0	4.4	41.45	110.2°	LATACUNGA
1993/04/27	03:22:17	3.35S	81.08W	183.2	5.2	125.01	265.5°	MACHALA
1993/04/27	05:48:15	1.35N	77.66W	27.7	4.3	59.87	6.2°	TULCAN
1993/04/29	06:34:24	0.38S	79.05W	14.1	4.1	64.09	251.4°	QUITO
1993/04/30	18:12:00	0.28N	79.16W	26.5	4.0	90.57	305.9°	QUITO
1993/05/03	01:31:22	3.26S	77.88W	18.0	4.1	109.02	165.0°	MACAS
1993/05/03	07:46:25	1.03S	78.28W	3.5	4.0	39.65	107.0°	LATACUNGA
1993/05/03	16:10:71	5.24N	82.95W	23.1	5.0	598.69	322.5°	ESMERALDAS
1993/05/04	21:58:27	1.97S	79.79W	17.4	4.2	27.52	26.9°	GUAYAQUIL
1993/05/09	16:04:43	2.18S	79.06W	17.3	4.4	66.05	338.0°	AZOGUES
1993/05/12	00:16:04	2.38S	76.96W	11.1	4.5	130.41	93.3°	MACAS
1993/05/16	15:00:07	3.35S	80.33W	27.3	5.2	42.08	256.0°	MACHALA
1993/05/18	01:25:27	0.82S	78.73W	17.2	4.1	16.97	314.5°	LATACUNGA
1993/05/18	04:36:46	0.99S	78.08W	5.6	4.3	29.35	283.1°	TENA
1993/05/22	08:28:37	0.99S	78.13W	11.4	4.0	34.93	280.6°	TENA
1993/05/22	15:58:24	2.07S	80.14W	22.0	4.3	30.05	295.8°	GUAYAQUIL
1993/05/24	18:53:34	0.97S	78.12W	7.1	4.3	34.92	284.8°	TENA
1993/05/27	18:08:17	0.38N	78.34W	39.9	4.9	25.36	275.2°	IBARRA
1993/05/29	06:09:02	0.80N	79.51W	7.0	4.0	25.73	137.9°	ESMERALDAS
1993/06/01	03:23:25	2.81S	77.55W	16.0	4.1	84.44	130.6°	MACAS
1993/06/08	04:04:40	1.55N	79.73W	134.0	4.2	65.19	354.3°	ESMERALDAS
1993/06/11	02:25:38	1.86S	81.64W	52.0	4.2	159.78	235.8°	PORTOVIEJO
1993/06/12	05:55:12	2.13S	80.05W	29.3	4.1	17.74	293.9°	GUAYAQUIL
1993/06/14	13:33:33	1.55S	77.99W	193.6	4.0	6.90	177.5°	PUYO
1993/06/16	15:43:43	2.26S	79.85W	18.8	4.3	9.97	143.9°	GUAYAQUIL
0096/04/01	23:01:40	0.47S	77.44W	24.0	4.0	76.92	32.8°	TENA
1993/06/20	05:01:03	2.73S	77.05W	117.8	4.6	129.07	111.1°	MACAS

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1993/06/21	16:22:25	3.23S	80.23W	52.7	4.5	30.77	276.9°	MACHALA
1993/06/22	03:40:18	3.13S	80.32W	52.0	4.5	42.08	290.3°	MACHALA
1993/06/22	08:30:00	3.35S	80.20W	52.0	4.5	29.05	249.3°	MACHALA
1993/06/23	06:51:19	3.14S	80.49W	52.0	4.4	60.56	282.5°	MACHALA
1993/06/24	13:58:07	3.41S	80.29W	51.0	5.0	39.96	246.1°	MACHALA
1993/06/24	14:50:22	3.40S	80.33W	52.0	4.5	43.68	249.2°	MACHALA
1993/07/24	10:42:29	2.58S	80.27W	70.0	4.1	60.22	223.7°	GUAYAQUIL
1993/07/24	20:56:08	0.95S	79.48W	17.6	4.4	88.19	322.7°	GUARANDA
1993/07/30	06:21:45	3.35N	80.10W	130.0	4.8	269.17	349.8°	ESMERALDAS
1993/07/30	09:11:12	2.43N	80.03W	150.0	4.8	167.15	346.2°	ESMERALDAS
1993/08/03	14:34:44	1.43S	80.44W	10.0	4.0	42.44	178.6°	PORTOVIEJO
1993/08/10	01:10:02	0.08N	78.86W	111.3	4.2	51.04	308.1°	QUITO
1993/08/14	06:55:02	1.06S	79.19W	146.6	4.1	62.02	339.6°	GUARANDA
1993/08/16	16:02:08	1.06S	78.27W	6.0	4.3	41.12	110.5°	LATACUNGA
1993/08/20	06:35:09	1.17S	80.37W	13.2	4.9	16.01	144.3°	PORTOVIEJO
1993/08/21	14:12:30	2.13S	80.00W	1.5	4.0	13.36	300.0°	GUAYAQUIL
1993/08/24	02:38:09	1.17S	79.21W	116.4	4.0	50.99	333.3°	GUARANDA
1993/08/26	20:25:17	1.10S	78.33W	13.0	4.1	36.97	65.5°	AMBATO
1993/08/27	18:23:69	5.47S	82.73W	35.0	4.9	393.79	231.3°	MACHALA
1993/08/31	02:12:37	1.07S	79.19W	126.5	4.2	60.70	339.5°	GUARANDA
1993/08/31	08:11:12	1.12S	78.19W	10.0	4.4	42.03	259.2°	TENA
1993/09/01	15:13:09	2.13S	79.77W	9.2	4.0	15.39	66.3°	GUAYAQUIL
1993/09/04	03:44:05	2.94S	77.75W	1.0	5.0	81.57	148.8°	MACAS
1993/09/06	01:35:12	3.12N	79.37W	120.0	4.5	241.67	8.0°	ESMERALDAS
1993/09/07	08:28:09	2.06N	81.34W	33.0	4.7	221.11	303.1°	ESMERALDAS
1993/09/09	17:44:28	0.98S	78.14W	9.8	4.2	36.18	282.4°	TENA
1993/09/09	18:29:30	2.52S	79.02W	95.0	4.0	30.90	318.5°	AZOGUES
1993/09/10	06:27:12	1.01S	79.48W	48.0	4.1	82.81	320.0°	GUARANDA
1993/09/10	10:06:08	1.81S	79.84W	25.3	4.0	34.00	268.5°	BABAHOYO
1993/09/10	14:49:11	2.00S	78.19W	189.9	4.2	35.58	348.9°	MACAS
1993/09/12	06:05:16	1.52N	80.85W	35.0	4.2	144.37	294.8°	ESMERALDAS
1993/09/14	00:11:38	1.83S	79.68W	35.7	4.5	16.49	257.6°	BABAHOYO
1993/09/21	17:02:05	0.01S	78.96W	25.4	4.5	55.51	292.0°	QUITO
1993/09/25	01:51:29	1.42N	80.40W	35.1	4.0	95.43	301.3°	ESMERALDAS
1993/09/25	05:06:01	1.56N	80.61W	31.0	4.0	123.30	302.3°	ESMERALDAS
1993/09/25	09:36:05	1.74N	80.97W	25.0	4.1	167.91	300.8°	ESMERALDAS
1993/09/25	18:23:30	1.56N	80.58W	25.0	4.0	120.65	303.1°	ESMERALDAS
1993/10/02	00:11:20	0.16S	79.25W	159.8	4.3	83.26	273.4°	QUITO
1993/10/03	08:32:14	1.71N	80.88W	55.0	4.0	157.90	301.6°	ESMERALDAS
1993/10/04	04:34:37	1.68S	78.31W	20.0	4.4	37.98	91.7°	RIOBAMBA
1993/10/04	19:23:02	1.94S	78.13W	10.0	4.1	41.19	359.6°	MACAS
1993/10/05	12:47:33	2.52S	79.68W	14.7	4.0	44.29	147.1°	GUAYAQUIL
1993/10/08	08:22:04	1.67S	78.33W	18.0	4.7	35.85	90.5°	RIOBAMBA
1993/10/10	02:42:22	0.15S	81.33W	56.0	4.1	140.39	315.7°	PORTOVIEJO
1993/10/14	14:54:27	1.86S	78.14W	10.0	4.0	43.97	202.7°	PUYO
1993/10/14	19:38:07	1.08S	78.29W	12.0	4.0	39.68	114.0°	LATACUNGA
1993/10/17	18:00:17	0.25S	80.70W	108.6	4.1	93.46	342.8°	PORTOVIEJO
1993/11/07	14:47:07	0.67N	80.37W	85.0	4.0	84.70	246.8°	ESMERALDAS
1993/11/07	15:37:23	0.60N	80.45W	85.0	4.0	96.32	244.7°	ESMERALDAS
1993/11/16	23:22:03	1.66S	81.41W	20.0	4.6	126.80	237.7°	PORTOVIEJO
1993/11/18	02:11:53	0.42N	78.50W	11.8	4.1	43.86	278.2°	IBARRA
1993/11/20	03:34:10	1.82N	79.23W	7.0	4.3	105.86	27.4°	ESMERALDAS
1993/11/25	20:50:27	1.12N	77.68W	24.0	4.0	34.46	7.1°	TULCAN
1993/11/26	22:31:17	1.45S	80.41W	16.0	4.1	44.16	173.6°	PORTOVIEJO
1993/11/27	09:45:03	2.91S	80.58W	52.0	4.3	79.23	299.4°	MACHALA
1993/11/30	20:43:28	1.07N	77.31W	13.0	4.0	53.88	57.3°	TULCAN

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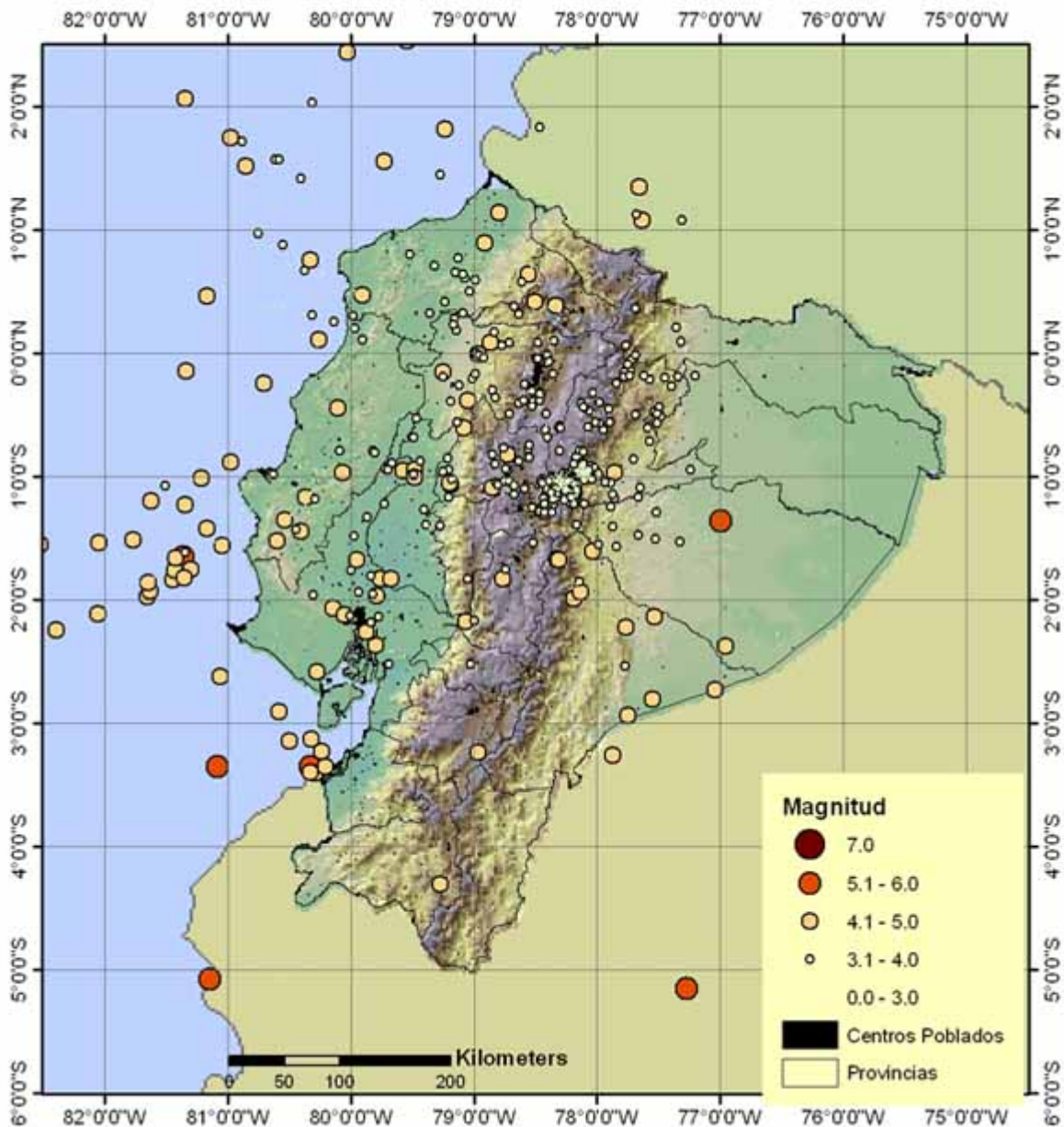
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1993/12/02	07:27:12	0.61S	79.08W	29.0	4.2	62.06	305.2°	LATACUNGA
1993/12/04	08:51:14	2.26S	79.87W	8.0	4.1	8.64	160.3°	GUAYAQUIL
1993/12/05	20:36:43	0.50N	78.46W	33.6	4.1	42.21	292.2°	IBARRA
1993/12/08	02:53:44	5.15S	77.28W	143.4	5.7	220.40	123.0°	ZAMORA
1993/12/09	07:25:23	1.82S	81.34W	172.4	4.1	131.25	229.2°	PORTOVIEJO
1993/12/12	06:32:24	0.15S	77.73W	10.0	4.0	70.50	143.2°	IBARRA

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