

## Seismicity Associated to a Shield Volcano in a Monogenetic Volcanic Field: The Case of San Martin Tuxtla Volcano, Veracruz, Mexico

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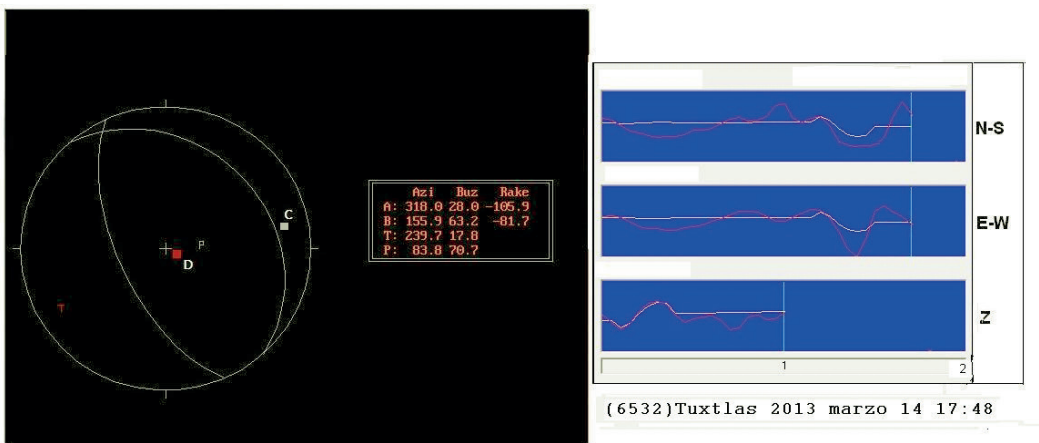
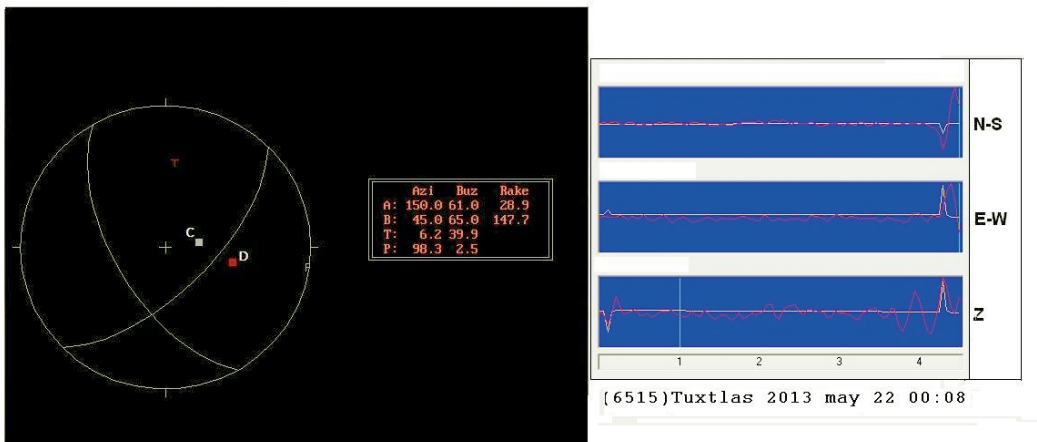
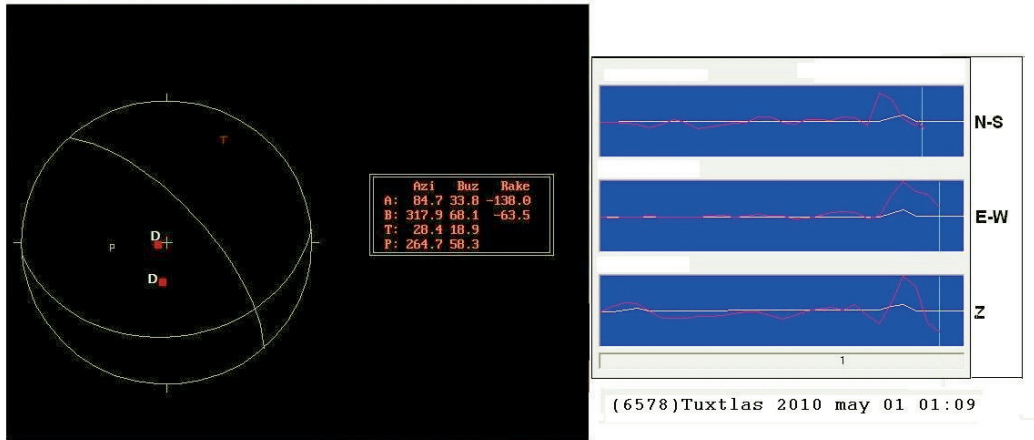
### APPENDIX A.- LIST OF EVENTS LOCATED WITH LTN RECORDS

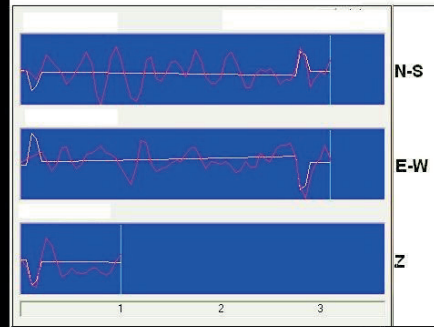
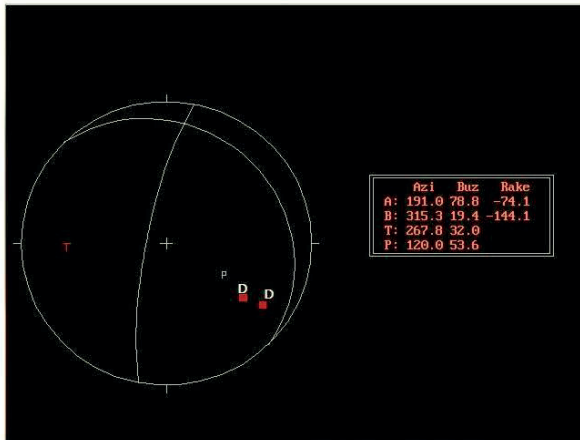
AAAA	MMDD	HHMM	SEG	LAT	LON	DEPTH	No	RMS	MAG	erLT	erLN	EDP
2007	5 8	0137	25.4	18.915	-95.074	5.0	2	0.7	2.2Mc	7.8	2.5	0.0
2007	517	1802	36.7	18.794	-94.973	5.0	2	0.1	2.3Mc	4.8	3.7	0.0
2007	9 8	0740	5.0	18.803	-95.581	10.0	2	0.3	2.1Mc	5.4	8.4	0.0
2008	611	0810	56.0	18.337	-95.243	28.0	2	0.1	1.8Mc	5.1	1.3	0.0
2009	1 4	1903	26.9	18.504	-95.200	13.2	2	0.4	0.6Mc	8.9	5.6	6.2
2009	1 5	0549	17.3	18.637	-95.072	15.0	2	0.3	1.1Mc	1.0	2.9	0.0
2009	1 9	0320	50.9	18.486	-95.171	14.8	2	0.1	1.2Mc	3.2	1.8	3.7
2009	114	1111	1.4	18.509	-95.074	3.0	2	0.2	1.5Mc	0.8	5.0	0.0
2009	114	1455	47.1	18.473	-95.156	5.3	2	0.0	1.0Mc	1.6	2.1	2.4
2009	115	1654	5.4	18.177	-95.396	10.0	2	0.1	1.9Mc	8.1	4.5	0.0
2009	117	0258	57.3	18.405	-95.153	23.9	2	0.0	2.2Mc	13.3	3.9	9.7
2009	118	1024	52.7	18.360	-95.072	24.3	2	0.1	1.7Mc	7.6	5.8	10.0
2009	122	0910	20.0	18.517	-95.177	32.2	2	0.2	1.6Mc	12.0	23.0	9.0
2009	126	0209	57.4	18.508	-95.190	7.0	2	0.3	0.7Mc	4.3	5.5	0.0
2009	2 2	0108	14.5	18.496	-95.197	6.9	2	0.0	0.6Mc	4.5	5.2	3.8
2009	322	1124	7.6	18.599	-95.195	7.0	2	0.3	0.1Mc	5.1	9.3	5.1
2009	410	2210	48.4	18.151	-94.728	25.0	2	0.1	1.9Mc	2.9	3.5	0.0
2009	6 6	1615	49.4	18.543	-95.019	8.0	2	0.0	1.5Mc	1.1	4.3	0.0
2009	623	0347	34.7	18.576	-95.316	20.0	2	0.4	1.2Mc	3.9	21.0	0.0
2009	718	1110	29.1	18.476	-95.057	10.0	2	0.0	1.3Mc	1.4	5.5	10.4
2009	727	0756	32.1	18.493	-95.174	8.5	2	0.1	1.1Mc	11.7	22.7	6.5
2009	8 9	0818	54.4	18.240	-95.184	5.0	2	0.2	1.9Mc	5.3	1.8	0.0
2009	810	1819	33.0	18.429	-94.994	3.0	2	0.0	1.8Mc	0.9	1.9	0.0
2009	813	1657	43.4	18.504	-95.204	25.6	2	0.1	2.0Mc	6.7	4.5	5.3
2009	9 1	0539	33.7	18.318	-95.157	26.7	2	0.1	1.7Mc	8.2	1.5	8.6
2009	1016	0503	8.8	18.507	-95.196	14.2	2	0.2	1.6Mc	14.6	6.0	10.7
2009	1029	2204	28.9	18.744	-95.758	12.0	2	0.2	2.4Mc	4.2	5.7	0.0
2009	1030	2325	9.1	18.802	-94.828	30.0	2	0.1	2.2Mc	4.0	4.6	0.0
2009	11 2	1834	47.9	18.686	-95.390	35.4	2	0.0	1.9Mc	6.0	7.1	8.4
2009	1114	0036	55.3	18.611	-95.734	15.0	2	0.2	2.2Mc	4.1	7.7	0.0
2009	1211	1555	33.3	18.493	-95.183	16.0	3	0.0	1.5Mc	1.2	2.4	2.5
2009	1223	1305	53.9	18.958	-95.684	33.0	2	0.4	2.1Mc	12.0	12.8	0.0
2010	1 8	0919	23.3	18.421	-95.055	16.7	2	0.1	1.6Mc	4.0	5.9	8.4
2010	114	0454	17.2	18.532	-95.223	9.8	3	0.4	1.5Mc	3.2	5.6	15.4
2010	2 6	0135	58.7	18.536	-95.213	4.1	3	0.1	1.2Mc	2.4	1.3	5.9
2010	315	1537	6.4	18.267	-94.691	5.0	3	0.3	1.8Mc	9.4	8.1	0.0
2010	331	1240	5.8	18.373	-95.274	29.7	3	0.0	1.5Mc	5.9	5.7	6.4
2010	4 9	2106	55.9	18.474	-95.105	17.5	3	0.0	0.9Mc	5.6	12.7	6.4
2010	5 1	0109	28.6	18.579	-95.190	6.7	3	0.0	1.5Mc	1.3	1.4	2.1
2010	5 1	2231	11.2	18.463	-95.227	15.5	3	0.0	1.7Mc	2.6	2.3	2.8
2010	516	2152	1.0	18.268	-95.349	39.0	3	0.3	1.8Mc	9.6	14.8	0.0
2010	6 8	0212	50.7	18.532	-95.234	2.3	3	0.2	0.5Mc	1.9	1.2	0.0
2010	719	0824	5.6	18.441	-95.154	3.0	3	1.0	0.9Mc	13.2	14.7	0.0
2010	811	2138	23.6	18.478	-95.212	2.0	3	0.2	0.7Mc	2.5	1.3	0.0
2010	826	0728	34.9	18.397	-95.145	25.5	2	0.0	1.9Mc	4.2	1.5	4.1
2011	227	1521	46.8	18.078	-95.286	39.0	3	0.3	1.7Mc	7.8	19.5	0.0
2011	228	2041	2.7	18.541	-95.226	1.0	3	0.1	1.1Mc	1.0	0.8	0.0
2011	4 5	0012	53.1	18.538	-95.226	2.0	3	0.4	1.0Mc	12.7	2.4	4.7
2011	4 8	0038	15.3	18.505	-95.196	19.5	3	0.3	1.7Mc	6.7	6.3	5.9
2011	715	1157	40.1	18.411	-95.142	24.7	3	0.0	1.8Mc	3.9	4.1	3.4
2011	813	1602	39.3	18.501	-95.189	36.6	2	0.4	1.6Mc	10.2	7.1	0.0
2012	7 6	2040	11.4	17.996	-94.796	18.2	2	0.0	2.4Mc	2.9	2.6	2.7
2012	721	2311	1.1	18.504	-95.123	29.2	3	0.0	0.8Mc	5.2	4.3	5.0
2012	729	2352	7.8	18.520	-95.244	12.7	3	0.0	1.1Mc	2.2	1.9	4.1
2013	125	1342	32.7	18.570	-95.274	37.0	2	0.3	1.5Mc	7.1	17.3	0.0
2013	127	1949	59.8	18.147	-94.726	10.0	2	0.2	2.1Mc	4.4	5.2	0.0
2013	211	1322	29.8	18.414	-95.370	35.5	2	0.0	1.5Mc	4.9	5.7	5.1
2013	314	1748	16.3	18.590	-95.149	10.4	2	0.1	1.7Mc	5.4	9.1	5.2
2013	4 4	0158	47.0	18.199	-95.027	10.0	2	0.1	1.5Mc	6.7	5.6	0.0
2013	522	0008	53.9	18.370	-95.370	15.0	2	0.3	1.9Mc	7.4	7.2	0.0

**APPENDIX B.- LIST OF EVENTS RELOCATED WITH THE DD METHOD**

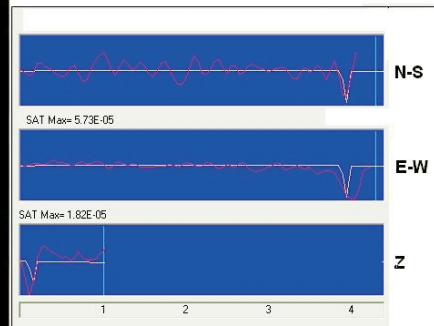
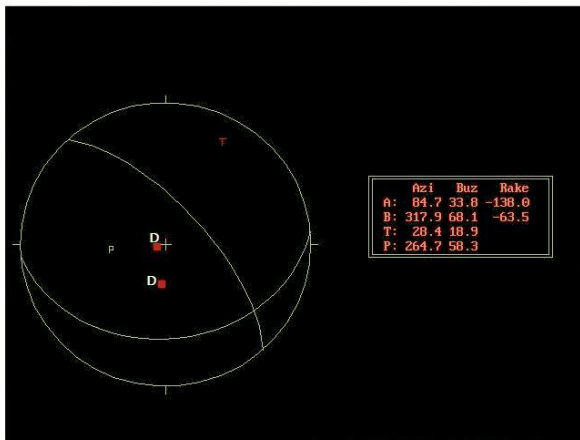
YEAR	MONTH	DAY	HOUR	MIN	SEC	MAG	LATITUDE	LONGITUDE	DEPTH (km)
2009	1	4	19	3	26.48	0.6	18.514463	-95.23016	13.742
2009	1	14	14	55	47.04	1	18.488997	-95.181364	6.492
2009	1	26	2	9	56.09	0.6	18.497831	-95.204517	10.263
2009	2	2	1	8	14.11	0.4	18.501756	-95.196802	5.664
2009	7	27	7	56	32.3	1.1	18.504567	-95.18737	7.905
2009	8	10	18	19	33.04	1.8	18.526717	-95.223714	26.05
2009	8	13	16	57	43.47	2	18.49588	-95.221948	24.348
2009	10	16	5	3	8.59	1.6	18.518921	-95.200203	12.672
2009	12	11	15	55	33.32	1.5	18.49612	-95.207992	16.115
2010	1	14	4	54	17.2	1.5	18.530255	-95.233187	10.347
2010	2	6	1	35	58.64	1.2	18.532214	-95.205591	3.305
2010	4	9	21	6	56.02	0.8	18.55673	-95.129484	12.999
2010	5	1	22	31	11.16	1.7	18.463086	-95.224186	15.618
2010	6	8	2	12	50.65	0.5	18.528998	-95.228255	1.867
2010	7	19	8	24	5.83	0.9	18.495709	-95.19445	1.158
2011	2	28	20	41	2.64	1.1	18.536143	-95.22203	1.232
2011	4	5	0	12	53.24	1	18.533187	-95.232056	1.802
2011	4	8	0	38	15.26	1.7	18.490916	-95.194458	19.063
2009	1	17	2	58	57.3	2.2	18.404749	-95.151855	23.924
2009	1	18	10	24	52.66	1.7	18.362598	-95.076139	24.023
2010	8	26	7	28	34.9	1.9	18.397524	-95.145833	25.461
2011	7	15	11	57	40.1	1.8	18.410626	-95.141366	24.724
2009	1	14	11	11	1.41	1.5	18.508516	-95.073633	2.954
2009	7	18	11	10	29.09	1.3	18.476562	-95.057463	9.909

APPENDIX C

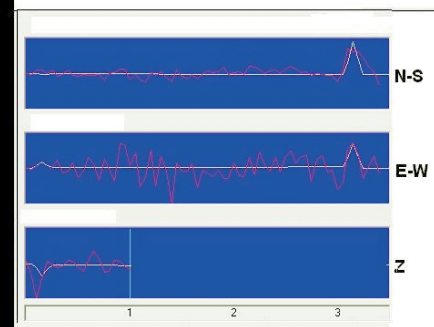
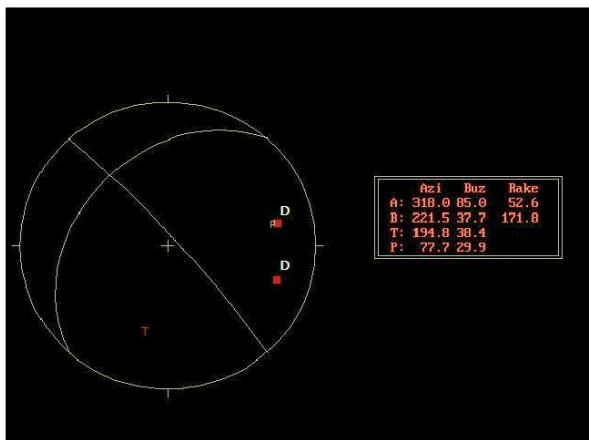




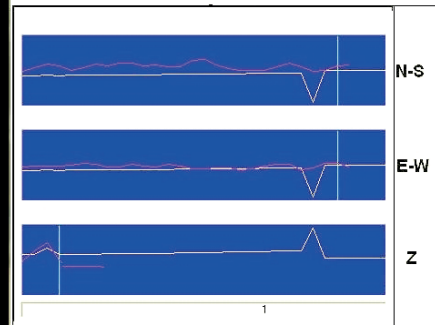
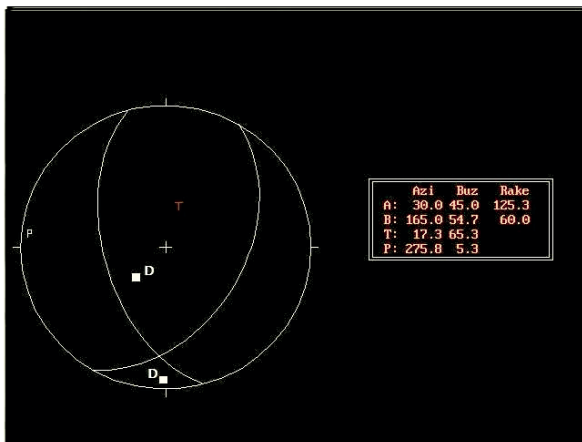
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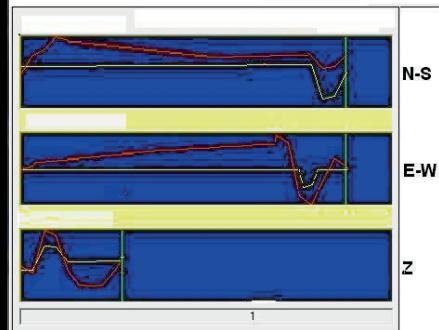
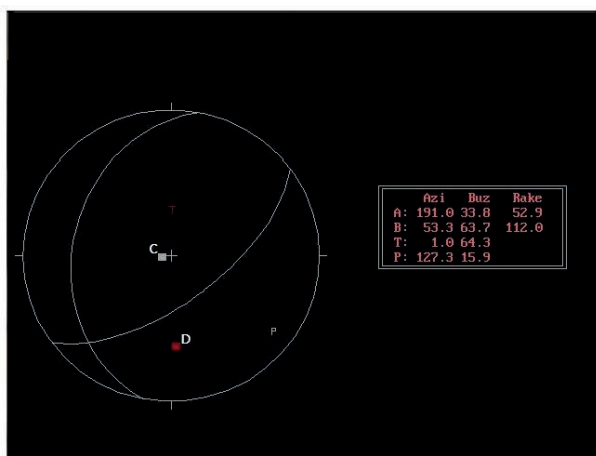
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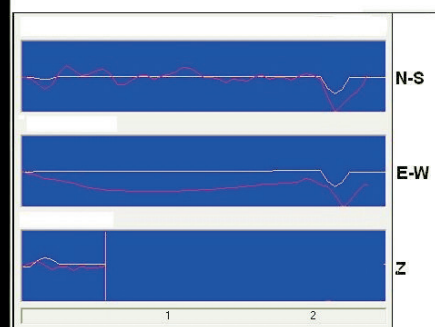
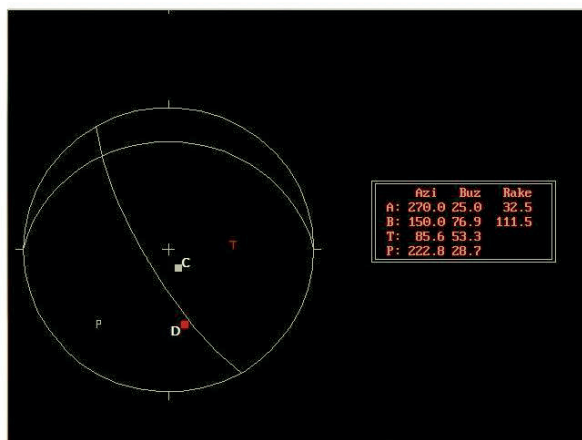
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