13. Anexos

- Anexo 1: Ficha de datos generales del Volcán de San Miguel
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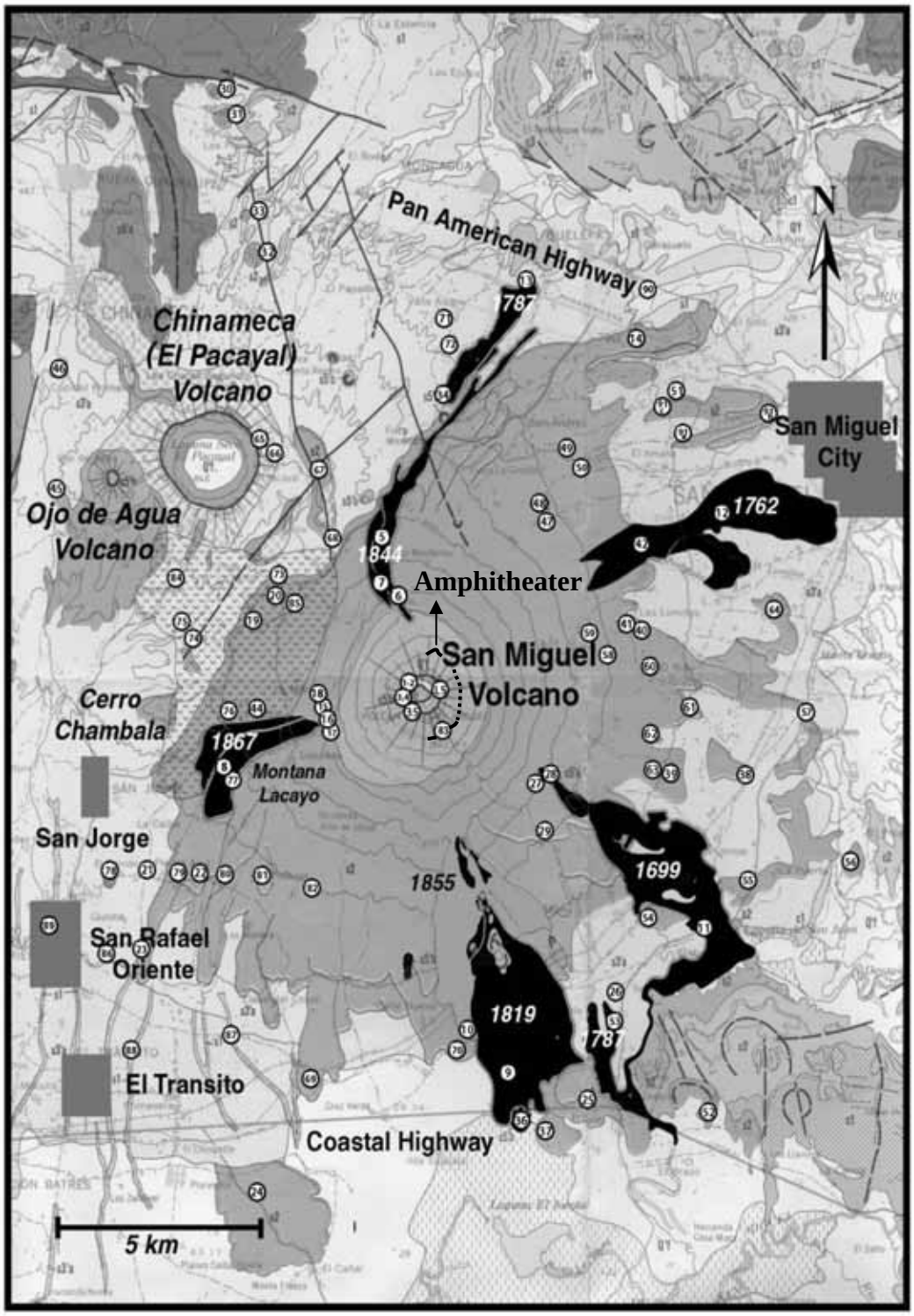
- Anexo 2: Mapa geológico y vulcanológico
-
- Anexo 3: Direcciones preferenciales de Vientos para elaboración de escenarios de amenaza por caída de cenizas.

Anexo 1: Datos generales

INFORMACIÓN GENERERAL ACERCA DEL VOLCAN SAN MIGUEL	
Ubicación	Longitud:579000 W Latitud: 257000 E
Tipo de volcán	Estrato volcán
Elevación de la cima	2,130 msnm (6,986 pies)
Ultima actividad magmática	Diciembre 1976- febrero 1977
Ultima erupción freática	16 Febrero 2002
Status del volcán	Histórico
VEI (Volcano Explosivity Index))	1 –2 :[1 es pequeño; 2 es moderado]
Número de erupciones moderadas (VEI = 2) desde 1699 al presente (2004)	~14
Tipo de erupción	Estromboliana
Tipo de roca	Basaltos- basaltos – andesíticos
Volumen del volcán	58 km^3 [Carr et al., in press,2003]

Anexo 2: Mapa geológico de depósitos volcánicos
(basado en Wiesemann (1975) y Chesner et al. (2003)



Anexo 3: Análisis de la dirección preferencial de los vientos por estaciones

San Miguel Winds 1997-2002

January

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	107	-3.79	-2.94	4.8	52
2	793	-6.88	-3.97	7.9	60
3	1523	-7.74	-3.10	8.3	68
4	3153	-5.86	-0.56	5.9	85
5	5867	-1.09	0.87	1.4	129
6	7579	3.31	1.22	3.5	250
7	9669	8.61	4.15	9.6	244
8	10917	10.76	6.22	12.4	240
9	12417	12.46	7.38	14.5	239
10	14217	11.79	5.73	13.1	244
11	16550	3.12	2.25	3.8	234
12	20533	-2.75	0.23	2.8	95
13	26275	-4.10	0.23	4.1	93

February

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	105	-3.47	-1.99	4.0	60
2	791	-6.61	-3.12	7.3	65
3	1522	-7.09	-2.62	7.6	70
4	3151	-5.00	-0.57	5.0	84
5	5868	-1.78	0.36	1.8	101
6	7583	2.18	0.99	2.4	246
7	9672	7.85	4.43	9.0	241
8	10917	10.26	6.65	12.2	237
9	12408	12.63	7.82	14.9	238
10	14200	12.52	6.42	14.1	243
11	16567	4.52	2.50	5.2	241
12	20567	-1.84	0.29	1.9	99
13	26283	-1.83	0.62	1.9	109

March

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	98	-2.49	-1.07	2.7	67
2	785	-5.54	-1.82	5.8	72
3	1517	-6.01	-1.86	6.3	73
4	3150	-3.95	-1.22	4.1	73
5	5871	-1.77	-0.40	1.8	77

6	7588	2.22	-0.46	2.3	282
7	9682	8.73	1.21	8.8	262
8	10925	11.04	4.35	11.9	249
9	12417	12.19	6.47	13.8	242
10	14217	11.42	4.26	12.2	250
11	16592	3.00	1.36	3.3	246
12	20567	-1.20	0.46	1.3	111
13	26308	-4.41	0.11	4.4	91

April

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	96	-1.48	-0.26	1.5	80
2	785	-4.41	-1.11	4.5	76
3	1519	-5.14	-1.66	5.4	72
4	3155	-4.81	-1.65	5.1	71
5	5878	-3.51	-0.23	3.5	86
6	7598	-1.62	-1.07	1.9	57
7	9698	3.24	-0.05	3.2	271
8	10925	5.90	2.02	6.2	251
9	12417	7.34	4.42	8.6	239
10	14217	6.53	3.49	7.4	242
11	16608	-0.05	0.66	0.7	176
12	20592	-2.83	0.09	2.8	92
13	26392	-7.41	0.27	7.4	92

May

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	92	-1.49	-0.28	1.5	79
2	781	-3.68	-0.66	3.7	80
3	1518	-4.68	-0.65	4.7	82
4	3157	-4.22	-0.55	4.3	83
5	5881	-2.39	0.68	2.5	106
6	7599	-1.32	0.57	1.4	113
7	9703	1.57	1.00	1.9	238
8	10983	3.54	1.77	4.0	243
9	12442	5.26	2.50	5.8	245
10	14242	5.93	1.39	6.1	257
11	16608	0.28	-0.88	0.9	342
12	20625	-5.85	-0.08	5.8	89
13	26417	-13.20	0.46	13.2	92

June

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	95	-1.68	-0.52	1.8	73
2	784	-4.02	-0.91	4.1	77
3	1518	-5.78	-0.29	5.8	87
4	3158	-5.97	0.95	6.0	99

5	5877	-4.94	1.16	5.1	103
6	7595	-3.85	0.79	3.9	102
7	9698	-2.91	-0.12	2.9	88
8	10975	-2.36	-0.90	2.5	69
9	12433	-1.78	-1.65	2.4	47
10	14233	-1.89	-2.68	3.3	35
11	16600	-4.45	-2.59	5.1	60
12	20692	-10.82	0.10	10.8	91
13	26475	-18.34	0.25	18.3	91

July

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	100	-3.07	-1.51	3.4	64
2	789	-6.40	-2.32	6.8	70
3	1522	-8.71	-1.58	8.9	80
4	3161	-8.78	0.37	8.8	92
5	5877	-6.72	0.60	6.7	95
6	7589	-4.61	0.29	4.6	94
7	9690	-2.69	-0.22	2.7	85
8	10958	-1.91	-0.67	2.0	71
9	12417	-0.97	-0.90	1.3	47
10	14208	-1.41	-1.13	1.8	51
11	16583	-5.73	-1.16	5.8	79
12	20708	-14.11	-0.15	14.1	89
13	26517	-21.75	0.42	21.8	91

August

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	96	-2.47	-1.12	2.7	66
2	786	-5.67	-1.95	6.0	71
3	1520	-8.24	-1.59	8.4	79
4	3160	-8.63	0.38	8.6	93
5	5876	-7.03	0.63	7.1	95
6	7591	-5.27	0.21	5.3	92
7	9695	-3.90	-0.67	4.0	80
8	10983	-3.37	-1.17	3.6	71
9	12425	-2.87	-1.37	3.2	64
10	14217	-4.21	-1.21	4.4	74
11	16592	-7.64	-1.00	7.7	83
12	20708	-14.66	-0.01	14.7	90
13	26483	-21.68	0.45	21.7	91

September

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	90	0.54	0.51	0.7	227

2	778	-0.26	0.46	0.5	151
3	1511	-1.38	0.20	1.4	98
4	3150	-2.81	0.52	2.9	100
5	5866	-3.94	0.64	4.0	99
6	7585	-4.38	-0.16	4.4	88
7	9688	-4.87	-1.65	5.1	71
8	10950	-5.29	-2.76	6.0	62
9	12433	-6.06	-3.77	7.1	58
10	14225	-8.15	-4.86	9.5	59
11	16600	-8.83	-3.11	9.4	71
12	20683	-12.28	-0.20	12.3	89
13	26450	-18.85	0.59	18.9	92

October

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	90	-0.82	-1.42	1.6	30
2	778	-2.57	-2.11	3.3	51
3	1511	-4.09	-1.74	4.4	67
4	3149	-4.16	-0.45	4.2	84
5	5868	-4.19	-0.38	4.2	85
6	7587	-4.03	-0.69	4.1	80
7	9693	-3.55	-0.85	3.6	76
8	10975	-3.95	-0.61	4.0	81
9	12433	-4.70	-0.46	4.7	84
10	14225	-5.65	-0.93	5.7	81
11	16583	-4.30	-1.77	4.7	68
12	20642	-8.17	0.04	8.2	90
13	26392	-14.69	0.63	14.7	92

November

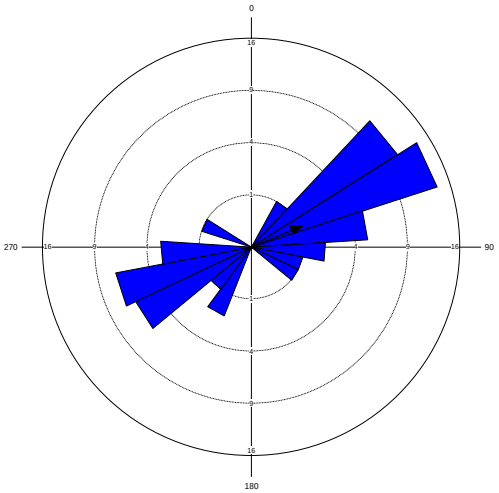
Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth
1	96	-2.01	-2.74	3.4	36
2	783	-4.48	-3.87	5.9	49
3	1515	-6.07	-3.15	6.8	63
4	3150	-5.46	-1.02	5.6	79
5	5868	-4.57	0.46	4.6	96
6	7588	-3.32	0.72	3.4	102
7	9690	-1.20	1.99	2.3	149
8	10975	-0.42	3.51	3.5	173
9	12408	-0.12	5.39	5.4	179
10	14208	0.31	5.44	5.5	183
11	16583	-0.35	1.60	1.6	167
12	20583	-5.20	-0.24	5.2	87
13	26342	-9.53	0.39	9.5	92

December

Level	Elevation (m)	U-component (m/s)	V-component (m/s)	Velocity (m/s)	Azimuth

1	101	-3.11	-3.61	4.8	41
2	788	-6.01	-4.93	7.8	51
3	1518	-7.28	-3.77	8.2	63
4	3153	-5.51	-1.10	5.6	79
5	5872	-2.84	0.80	2.9	106
6	7587	-0.39	2.04	2.1	169
7	9683	2.33	4.51	5.1	207
8	10942	3.09	6.57	7.3	205
9	12425	3.46	8.62	9.3	202
10	14200	5.32	7.70	9.4	215
11	16567	2.62	3.99	4.8	213
12	20558	-3.88	0.13	3.9	92
13	26275	-5.22	0.63	5.3	97

Enero



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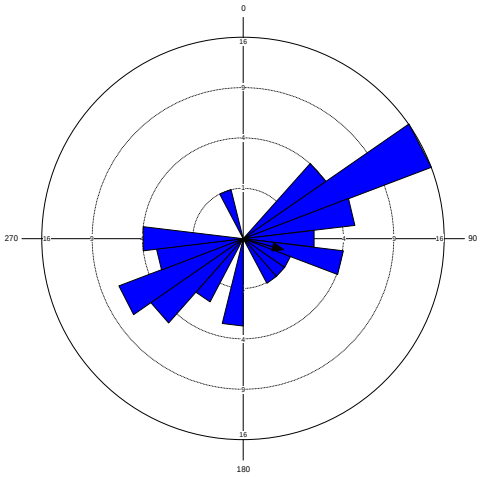

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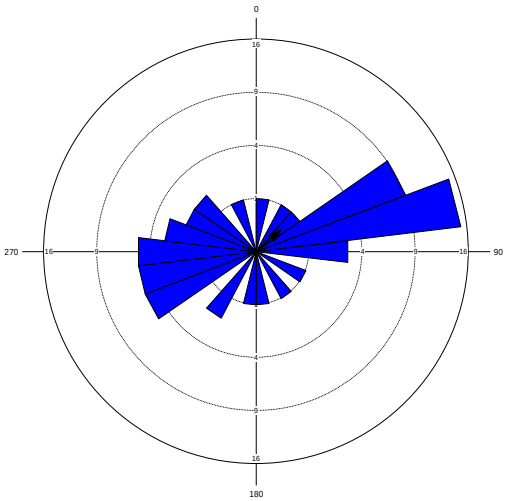

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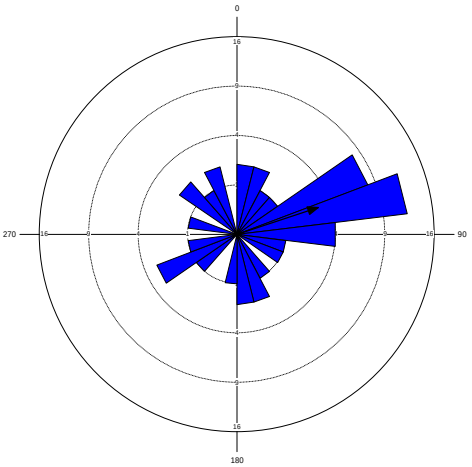

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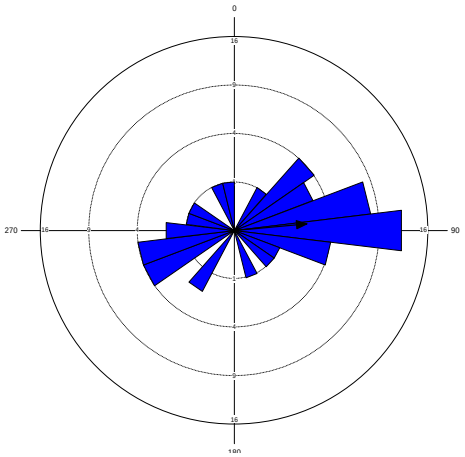

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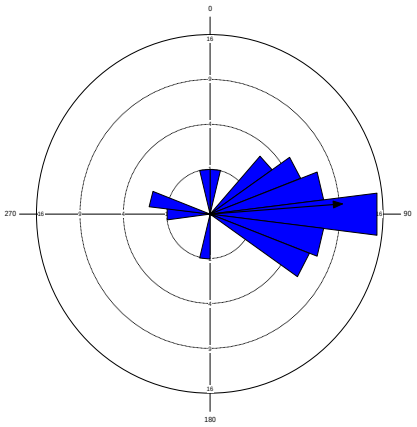

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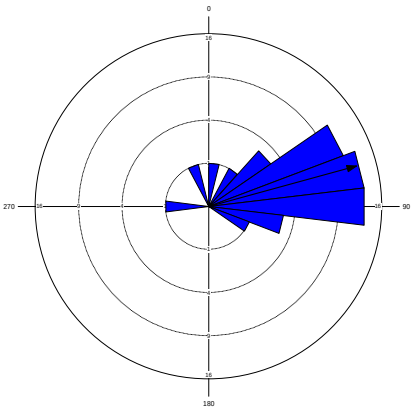

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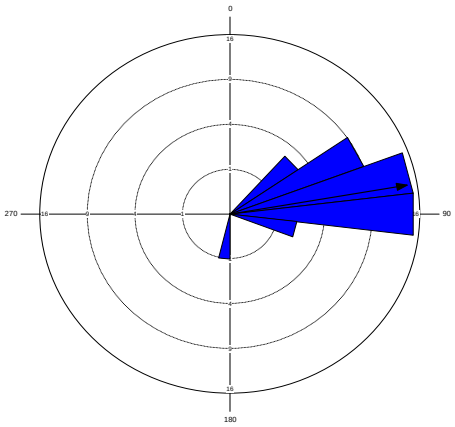

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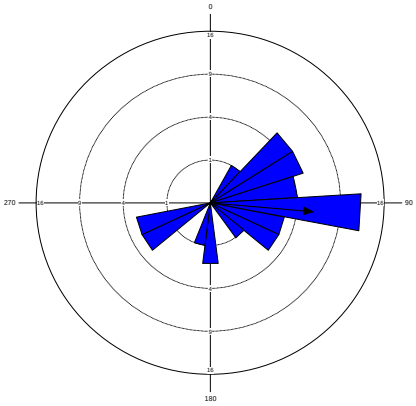

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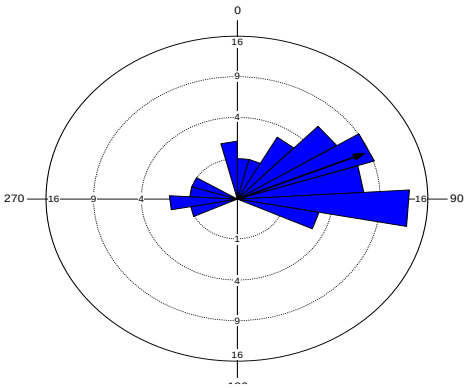

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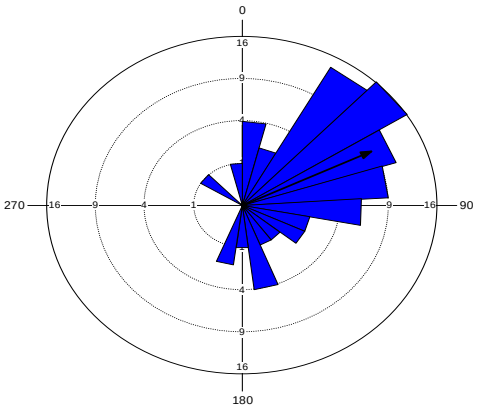
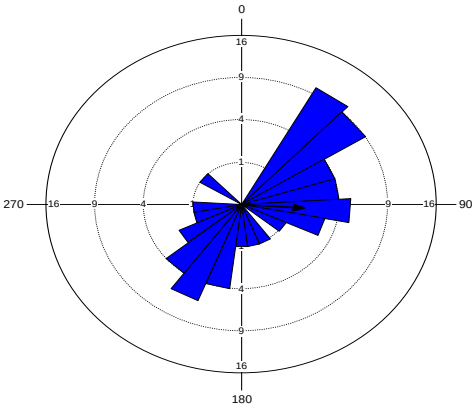
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