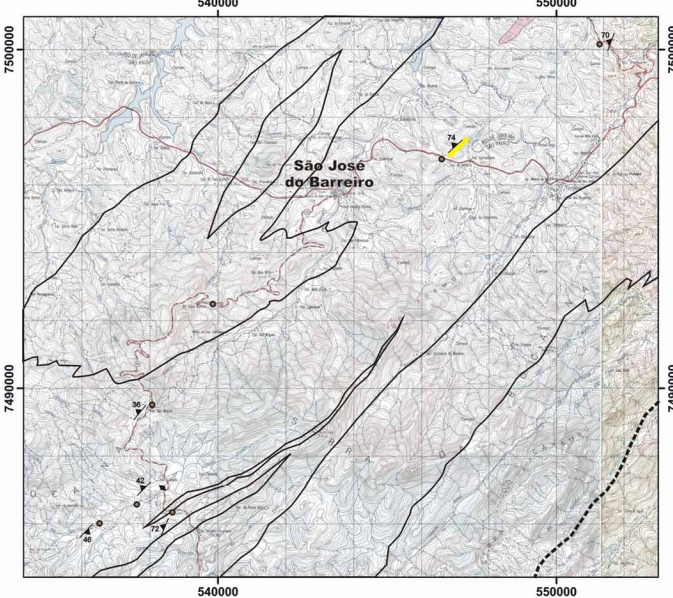


ANEXO C – Mapa Estrutural

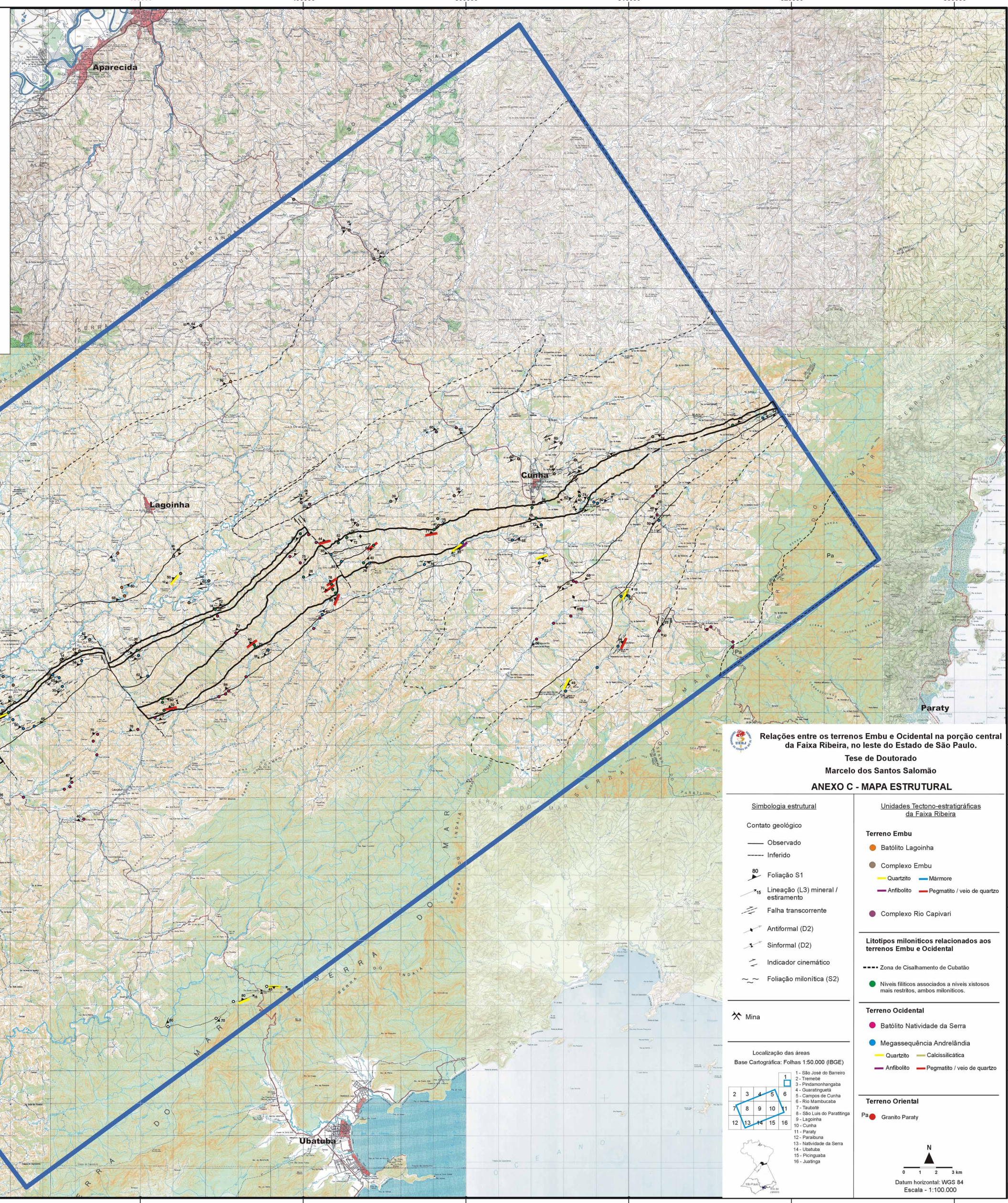
Área situada a NE



Legenda

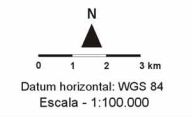
TERRENO EMBU
● Complexo Embu

Adaptado de Eirado (2006).



Relações entre os terrenos Embu e Ocidental na porção central da Faixa Ribeira, no leste do Estado de São Paulo.
 Tese de Doutorado
 Marcelo dos Santos Salomão
ANEXO C - MAPA ESTRUTURAL

<p>Simbologia estrutural</p> <p>Contato geológico</p> <p>— Observado</p> <p>- - - Inferido</p> <p>80 Foliação S1</p> <p>15 Lineação (L3) mineral / estiramento</p> <p>Falha transcorrente</p> <p>Antiformal (D2)</p> <p>Siniformal (D2)</p> <p>Indicador cinemático</p> <p>Foliação milonítica (S2)</p> <p>Mina</p> <p>Localização das áreas</p> <p>Base Cartográfica: Folhas 1:50.000 (JBGE)</p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td></td><td></td></tr> </table> <p>1 - São José do Barreiro 2 - Tremembé 3 - Pindamonhangaba 4 - Guatinguetá 5 - Campos de Cunha 6 - Rio Mambucaba 7 - Taubaté 8 - São Luiz do Paraitinga 9 - Lagoinha 10 - Cunha 11 - Paraty 12 - Paraíba 13 - Natividade da Serra 14 - Ubatuba 15 - Picinguaba 16 - Justinga</p>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			<p>Unidades Tectono-estratigráficas da Faixa Ribeira</p> <p>Terreno Embu</p> <p>● Batólito Lagoinha</p> <p>● Complexo Embu</p> <p>— Quartzito — Mármore</p> <p>— Anfibolito — Pegmatito / veio de quartzo</p> <p>● Complexo Rio Capivari</p> <p>Litotipos miloníticos relacionados aos terrenos Embu e Ocidental</p> <p>- - - Zona de Cisalhamento de Cubatão</p> <p>● Níveis filíticos associados a níveis xistosos mais restritos, ambos miloníticos.</p> <p>Terreno Ocidental</p> <p>● Batólito Natividade da Serra</p> <p>● Megassequência Andreiândia</p> <p>— Quartzito — Calcissilítica</p> <p>— Anfibolito — Pegmatito / veio de quartzo</p> <p>Terreno Oriental</p> <p>● Granito Paraty</p>
1	2	3	4	5	6														
7	8	9	10	11	12														
13	14	15	16																



ANEXO D – Análises Litogeoquímicas

Analite Symbol	Unit Symbol	Detection Limit	Analysis Method	Rochas Paraderivadas										
				Complejo Embu										
				GL-88G	GL-88H	GL-201B	GL-200F	MS-74-B	SB-L-03-B	SB-L-22-B	SB-L-22-E	SB-L-22-D	SB-L-22-C	
SiO2	%	0.01	FUS-ICP	64.76	65.12	65.11	73.5	69.85	99.2	73.39	77.82	76.33	79.76	
Al2O3	%	0.01	FUS-ICP	15.02	14.61	15.45	10.99	13.87	0.51	12.26	10.33	10.57	9.59	
Fe2O3(T)	%	0.01	FUS-ICP	4.66	6.13	4.62	4.19	3.42	0.62	4.77	3.68	3.75	3.89	
FeOt	%		FUS-ICP	4.19	5.52	4.16	3.77	3.08	0.56	4.29	3.31	3.37	3.50	
MnO	%	0.001	FUS-ICP	0.055	0.173	0.089	0.073	0.068	0.01	0.041	0.05	0.056	0.041	
MgO	%	0.01	FUS-ICP	2.39	3.32	1.59	2.05	0.83	0.02	1.31	0.81	0.83	1.06	
CaO	%	0.01	FUS-ICP	2.26	3.58	2.98	2.45	0.7	0.04	0.5	0.84	0.5	0.94	
Na2O	%	0.01	FUS-ICP	2.92	2.18	3.07	1.97	1.47	< 0.01	0.87	1.36	0.88	1.39	
K2O	%	0.01	FUS-ICP	4.77	2.99	4.59	2.04	6.91	0.04	3.03	1.25	1.56	1.76	
TiO2	%	0.001	FUS-ICP	0.49	0.564	0.684	0.553	0.424	0.054	0.474	0.417	0.38	0.38	
P2O5	%	0.01	FUS-ICP	0.15	0.07	0.35	0.05	0.2	0.04	0.1	0.1	0.12	0.1	
LOI	%		FUS-ICP	0.98	1.98	0.77	0.65	1.37	0.4	2.89	4.22	5.49	1.97	
Total	%	0.01	FUS-ICP	98.44	100.7	99.3	98.52	99.1	100.9	99.63	100.9	100.5	100.9	
Sc	ppm	1	FUS-ICP	9	15	11	10	4	< 1	9	7	7	7	
Be	ppm	1	FUS-ICP	2	1	5	2	1	< 1	1	2	1	1	
Y	ppm	5	FUS-ICP	62	74	73	68	29	< 5	64	44	42	42	
Ba	ppm	3	FUS-ICP	1046	596	1281	828	1611	21	498	361	433	255	
Sr	ppm	2	FUS-ICP	265	116	444	152	231	3	94	88	56	107	
Y	ppm	2	FUS-ICP	14	33	20	16	11	4	23	16	17	20	
Zr	ppm	4	FUS-ICP	194	228	364	210	222	84	189	219	187	204	
Cr	ppm	20	FUS-MS	30	60	20	90	20	30	110	50	90	50	
Co	ppm	1	FUS-MS	14	17	12	15	6	< 1	6	9	6	7	
Ni	ppm	20	FUS-MS	< 20	20	< 20	40	< 20	< 20	20	30	30	30	
Cu	ppm	10	FUS-MS	40	50	< 10	30	< 10	< 10	30	< 10	< 10	10	
Zn	ppm	30	FUS-MS	60	80	80	50	60	< 30	80	60	60	70	
Ga	ppm	1	FUS-MS	18	18	21	14	19	< 1	15	13	14	12	
Ge	ppm	1	FUS-MS	1	3	2	1	3	1	4	3	4	3	
As	ppm	5	FUS-MS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Rb	ppm	2	FUS-MS	141	135	292	150	208	2	141	70	77	107	
Nb	ppm	1	FUS-MS	12	11	14	7	9	2	8	7	7	8	
Mo	ppm	2	FUS-MS	< 2	< 2	< 2	< 2	< 2	2	5	< 2	5	< 2	
Ag	ppm	0.5	FUS-MS	1.4	1.6	3	1.2	3.3	1.5	3.1	3.4	2.8	3.5	
In	ppm	0.2	FUS-MS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Sn	ppm	1	FUS-MS	2	1	12	1	2	1	2	1	1	1	
Sb	ppm	0.5	FUS-MS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 0.5	< 0.5	< 0.5	
Cs	ppm	0.5	FUS-MS	2.8	3.6	39.1	5.9	2.5	< 0.5	3.9	2	1.9	3.6	
La	ppm	0.1	FUS-MS	50.6	33.3	95.2	38	83.7	8.4	38.4	27.2	28.6	35.2	
Ce	ppm	0.1	FUS-MS	91.7	66.8	184	73.8	164	14.2	74.4	55.4	58.2	69	
Pr	ppm	0.05	FUS-MS	9.13	7.05	19	7.99	17.5	1.91	8.27	6.16	6.4	7.71	
Nd	ppm	0.1	FUS-MS	32.6	26.8	69.7	27.8	60.4	6.4	31.3	22.8	23	28.5	
Sm	ppm	0.1	FUS-MS	4.9	4.9	11	4.8	8.7	1.2	5.7	4.1	4.4	5.5	
Eu	ppm	0.05	FUS-MS	1.23	1	1.77	0.93	1.61	0.19	1.13	0.76	0.66	1.08	
Gd	ppm	0.1	FUS-MS	3.7	4.2	7	3.3	4.4	0.9	4.3	3	3.3	4	
Tb	ppm	0.1	FUS-MS	0.5	0.8	0.8	0.5	0.5	0.2	0.7	0.5	0.5	0.6	
Dy	ppm	0.1	FUS-MS	2.9	5.1	4.4	3.1	2.3	0.9	3.7	2.7	2.9	3.5	
Ho	ppm	0.1	FUS-MS	0.6	1.1	0.8	0.6	0.4	0.2	0.7	0.5	0.6	0.7	
Er	ppm	0.1	FUS-MS	1.6	3.5	2	1.8	1.1	0.4	2.1	1.7	1.8	1.9	
Tm	ppm	0.05	FUS-MS	0.23	0.58	0.26	0.28	0.14	0.08	0.34	0.29	0.3	0.31	
Yb	ppm	0.1	FUS-MS	1.4	3.9	1.6	1.9	0.8	0.6	2.2	2	1.9	1.9	
Lu	ppm	0.04	FUS-MS	0.22	0.6	0.26	0.31	0.12	0.08	0.32	0.28	0.29	0.27	
Hf	ppm	0.2	FUS-MS	4.8	5.6	7.8	5.3	4.7	1.8	4.3	5.2	4.3	4.9	
Ta	ppm	0.1	FUS-MS	1	0.7	0.7	0.7	0.6	0.3	0.7	0.8	0.8	1.6	
V	ppm	1	FUS-MS	36	62	50	41	1	2	1	< 1	1	< 1	
Tl	ppm	0.1	FUS-MS	0.6	0.6	1.6	0.8	1.1	0.2	0.7	0.5	0.5	0.6	
Pb	ppm	5	FUS-MS	30	17	23	11	21	< 5	16	16	17	19	
Bi	ppm	0.4	FUS-MS	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	
Th	ppm	0.1	FUS-MS	20.3	11.2	38.2	13.7	25.4	1.4	12.8	12.6	11.1	11.9	
U	ppm	0.1	FUS-MS	2.9	2.2	2.5	0.9	2.6	0.7	3.1	2.8	2.7	2.9	

Analite Symbol	Unit Symbol	Detection Limit	Analysis Method	Rochas Paraderivadas										
				Complejo Embu										
				SB-LG-18-B	SB-LG-19-B	GL-69	MS-64-B	10-10-P	10-10-W	10-10-I	10-10-Y	98-1-A	98-1-H	
SiO2	%	0.01	FUS-ICP	70.21	58.61	64.06	66.04	71.61	71.53	56.81	58.89	70.13	71.36	
Al2O3	%	0.01	FUS-ICP	14.99	6.98	15.84	15.85	9.18	12.66	14.23	12.99	12.45	12.55	
Fe2O3(T)	%	0.01	FUS-ICP	3.55	15.71	5.09	4.81	6.39	4.62	10.97	8.68	5.22	5.2	
FeOt	%		FUS-ICP	3.19	14.14	4.58	4.33	5.75	4.16	9.87	7.81	4.70	4.68	
MnO	%	0.001	FUS-ICP	0.058	1.026	0.071	0.076	0.42	0.077	1.249	0.164	0.083	0.076	
MgO	%	0.01	FUS-ICP	0.69	7.87	1.09	1.46	4.49	1.78	7.04	5.91	2.58	2.61	
CaO	%	0.01	FUS-ICP	2.01	7.44	5.12	3.51	1.4	1.43	1.43	4.95	2.35	2.62	
Na2O	%	0.01	FUS-ICP	2.96	0.22	5.08	3.96	0.75	2.67	0.96	1.71	1.95	1.72	
K2O	%	0.01	FUS-ICP	3.3	0.18	0.86	3	2.89	3.89	5.25	3.17	3.17	2.7	
TiO2	%	0.001	FUS-ICP	0.346	0.265	0.806	0.489	0.428	0.545	0.563	1.219	0.532	0.523	
P2O5	%	0.01	FUS-ICP	0.11	0.13	0.09	0.19	0.18	0.03	0.35	0.1	0.08	0.06	
LOI	%		FUS-ICP	1.31	2.12	1.05	1.08	1.55	1.2	1.68	1.45	1.22	1.49	
Total	%	0.01	FUS-ICP	99.52	100.5	99.15	100.4	99.3	100.4	100.5	99.23	99.75	100.9	
Sc	ppm	1	FUS-ICP	9	7	14	10	9	8	15	26	12	10	
Be	ppm	1	FUS-ICP	3	2	2	3	2	4	3	3	3	3	
Y	ppm	5	FUS-ICP	39	42	137	61	61	65	69	230	82	90	
Ba	ppm	3	FUS-ICP	1165	133	934	969	528	615	488	279	531	346	
Sr	ppm	2	FUS-ICP	247	37	1062	373	71	182	25	107	88	78	
Y	ppm	2	FUS-ICP	23	16	14	17	16	8	51	18	18	17	
Zr	ppm	4	FUS-ICP	176	57	97	204	91	188	121	118	150	136	
Cr	ppm	20	FUS-MS	30	80	50	70	110	60	60	180	90	80	
Co	ppm	1	FUS-MS	6	15	22	10	18	10	29	29	16	13	
Ni	ppm	20	FUS-MS	< 20	20	30	20	30	30	30	90	50	40	
Cu	ppm	10	FUS-MS	< 10	30	20	20	30	40	< 10	30	60	40	
Zn	ppm	30	FUS-MS	70	90	90	100	70	80	120	100	80	80	
Ga	ppm	1	FUS-MS	18	11	20	21	13	18	24	18	18	17	
Ge	ppm	1	FUS-MS	4	7	1	3	4	4	7	4	4	4	
As	ppm	5	FUS-MS	< 5	< 5	10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Rb	ppm	2	FUS-MS	108	4	5	145	149	224	342	183	192	163	
Nb	ppm	1	FUS-MS	7	5	5	11	7	14	17	9	10	7	
Mo	ppm	2	FUS-MS	< 2	3	< 2	4	5	3	< 2	3	< 2	< 2	
Ag	ppm	0.5	FUS-MS	2.5	0.9	1.3	3.5	1.3	2.9	1.8	1.7	2.3	2.3	
In	ppm	0.2	FUS-MS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Sn	ppm	1	FUS-MS	< 1	3	1	3	3	5	9	4	5	3	
Sb	ppm	0.5	FUS-MS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cs	ppm	0.5	FUS-MS	1.3	< 0.5	< 0.5	1.1	13.9	13.6	28.1	10.4	14.2	11.3	
La	ppm	0.1	FUS-MS	36.6	15.2	36.6	62.1	21.8	17.3	39	18.1	32.7	26	
Ce	ppm	0.1	FUS-MS	75.7	31	63.5	108	49.7	31.8	87.4	37.3	78.9	50.1	
Pr	ppm	0.05	FUS-MS	8.63	3.92	7.34	12	4.8	3.34	8.23	4.5	7.9	5.64	
Nd	ppm	0.1	FUS-MS	32.9	14.7	26.8	42.8	18.8	12.1	31.1	17.9	30.1	21.7	
Sm	ppm	0.1	FUS-MS	6.3	3.2	4.7	6.9	3.5	2	6.7	3.8	5.7	4	
Eu	ppm	0.05	FUS-MS	1.35	0.73	1.38	1.29	0.64	0.77	0.56	1.15	0.89	0.8	
Gd	ppm	0.1	FUS-MS	4.7	2.7	3.6	4.5	3.1	1.2	6	3.7	4	3.3	
Tb	ppm	0.1	FUS-MS	0.7	0.4	0.5	0.6	0.5	0.2	1.1	0.6	0.6	0.5	
Dy	ppm	0.1	FUS-MS	4	2.5	2.9	3.5	2.7	0.9	6.9	3.2	3.4	3	
Ho	ppm	0.1	FUS-MS	0.7	0.5	0.6	0.7	0.5	0.2	1.5	0.6	0.7	0.6	
Er	ppm	0.1	FUS-MS	2.1	1.4	1.6	1.8	1.5	0.4	4.6	1.7	1.8	1.7	
Tm	ppm	0.05	FUS-MS	0.32	0.22	0.24	0.26	0.23	0.07	0.84	0.25	0.27	0.27	
Yb	ppm	0.1	FUS-MS	2.1	1.4	1.6	1.5	1.5	0.4	5.7	1.5	1.8	1.6	
Lu	ppm	0.04	FUS-MS	0.3	0.2	0.23	0.22	0.21	0.07	0.83	0.21	0.28	0.24	
Hf	ppm	0.2	FUS-MS	4.5	1.4	2.4	4.1	2.1	4.4	3	2.7	3.8	3.3	
Ta	ppm	0.1	FUS-MS	0.4	0.3	0.4	0.7	0.6	1.8	3.5	0.9	1.8	1.2	
V	ppm	1	FUS-MS	< 1	< 1	56	< 1	1	2	2	1	2	1	
Tl	ppm	0.1	FUS-MS	0.6	0.2	0.3	1	1	1.3	1.5	1.1	1.1	0.9	
Pb	ppm	5	FUS-MS	38	< 5	13	14	6	23	10	10	18	16	
Bi	ppm	0.4	FUS-MS	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	
Th	ppm	0.1	FUS-MS	21.9	4.6	5.5	14	6	5.9	11.4	5.3	11.9	8.4	
U	ppm	0.1	FUS-MS	2.3	1.1	1.9	1.5	1.9	25.4	11.5	6.3	3.5	5.3	

				<i>Rochas Paraderivadas</i>				
				<i>Z. C. Cubatão</i>			<i>Megas. Andrelândia</i>	
Analyte Symbol	Unit Symbol	Detection Limit	Analysis Method	MS-39-E	MS-39-D	MS-28-C	CN-LG-10-B	CN-AL-07-B
SiO2	%	0.01	FUS-ICP	66.99	67.2	66.03	69.26	69.35
Al2O3	%	0.01	FUS-ICP	15.28	14.47	16.65	14.35	14.53
Fe2O3(T)	%	0.01	FUS-ICP	4.8	4.32	6.32	3.04	6.68
FeOt	%		FUS-ICP	4.32	3.89	5.69	2.74	6.01
MnO	%	0.001	FUS-ICP	0.08	0.074	0.087	0.045	0.115
MgO	%	0.01	FUS-ICP	2.15	1.82	0.19	0.53	1.92
CaO	%	0.01	FUS-ICP	2.34	2.28	0.05	1.56	0.11
Na2O	%	0.01	FUS-ICP	1.63	1.87	0.16	2.92	0.46
K2O	%	0.01	FUS-ICP	4.26	4.41	1.76	5.01	3.58
TiO2	%	0.001	FUS-ICP	0.6	0.523	0.871	0.383	0.883
P2O5	%	0.01	FUS-ICP	0.18	0.13	0.04	0.18	0.04
LOI	%		FUS-ICP	2.66	1.67	6.47	0.92	3.15
Total	%	0.01	FUS-ICP	101	98.77	98.63	98.2	100.8
Se	ppm	1	FUS-ICP	15	13	16	5	16
Be	ppm	1	FUS-ICP	4	4	3	5	3
Y	ppm	5	FUS-ICP	91	77	110	21	88
Ba	ppm	3	FUS-ICP	761	696	447	598	884
Sr	ppm	2	FUS-ICP	168	171	19	160	45
Y	ppm	2	FUS-ICP	21	23	33	9	24
Zr	ppm	4	FUS-ICP	183	168	259	134	282
Cr	ppm	20	FUS-MS	100	60	70	60	90
Co	ppm	1	FUS-MS	13	11	34	5	19
Ni	ppm	20	FUS-MS	20	20	40	< 20	30
Cu	ppm	10	FUS-MS	20	20	30	20	< 10
Zn	ppm	30	FUS-MS	70	70	40	70	100
Ga	ppm	1	FUS-MS	17	15	21	21	20
Ge	ppm	1	FUS-MS	4	4	4	4	4
As	ppm	5	FUS-MS	13	6	18	< 5	< 5
Rb	ppm	2	FUS-MS	244	218	41	226	148
Nb	ppm	1	FUS-MS	9	8	12	7	11
Mo	ppm	2	FUS-MS	3	< 2	< 2	4	< 2
Ag	ppm	0.5	FUS-MS	2.8	2.3	3.2	2.1	3.8
In	ppm	0.2	FUS-MS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Sn	ppm	1	FUS-MS	4	5	4	5	< 1
Sb	ppm	0.5	FUS-MS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cs	ppm	0.5	FUS-MS	14.7	12.8	0.8	19.1	3.5
La	ppm	0.1	FUS-MS	31.8	36	26	30.9	41.7
Ce	ppm	0.1	FUS-MS	72.3	55.4	58.5	64.6	82.1
Pr	ppm	0.05	FUS-MS	8.55	8.8	6.09	7	9.21
Nd	ppm	0.1	FUS-MS	33.8	34.3	23.2	25.5	33.9
Sm	ppm	0.1	FUS-MS	6.3	6	4.8	4.4	6.2
Eu	ppm	0.05	FUS-MS	1.12	0.97	0.94	0.71	1.22
Gd	ppm	0.1	FUS-MS	3.9	4.1	3.8	2.8	4.7
Tb	ppm	0.1	FUS-MS	0.6	0.6	0.8	0.3	0.7
Dy	ppm	0.1	FUS-MS	3.4	3.7	5	1.8	4.2
Ho	ppm	0.1	FUS-MS	0.7	0.8	1	0.3	0.8
Er	ppm	0.1	FUS-MS	2.2	2.4	3.2	1	2.4
Tm	ppm	0.05	FUS-MS	0.33	0.36	0.52	0.15	0.39
Yb	ppm	0.1	FUS-MS	2.2	2.4	3.5	0.9	2.4
Lu	ppm	0.04	FUS-MS	0.33	0.37	0.49	0.13	0.36
Hf	ppm	0.2	FUS-MS	4.5	4.1	6.1	3.2	6.6
Ta	ppm	0.1	FUS-MS	0.9	0.9	1.1	2	0.8
V	ppm	1	FUS-MS	2	2	27	< 1	< 1
Tl	ppm	0.1	FUS-MS	1.5	1.4	0.4	1.1	0.7
Pb	ppm	5	FUS-MS	24	25	24	18	15
Bi	ppm	0.4	FUS-MS	< 0.4	< 0.4	< 0.4	1.4	< 0.4
Th	ppm	0.1	FUS-MS	21.5	22.2	14.7	10.4	14.4
U	ppm	0.1	FUS-MS	3.3	2.9	4.8	3.8	2

				<i>Rochas Ortoderivadas</i>										
				<i>Terreno Embu</i>										
Analyte Symbol	Unit Symbol	Detection Limit	Analysis Method	GL-100B	GL-100A	MS-43-B	MS-48-B	GL-88C1	GL-88D	GL-88E	10-10-A	98-1-M	98-1-K	
SiO2	%	0.01	FUS-ICP	65.89	67.74	72.84	75.94	52.54	62.23	59.68	46.11	64.09	48.42	
Al2O3	%	0.01	FUS-ICP	13.77	13.43	15.16	14	13.97	14.25	16.44	9.49	13.33	14.55	
Fe2O3(T)	%	0.01	FUS-ICP	5.85	5.45	1.98	1.1	12.2	6.76	5.95	12.93	5.35	12.39	
FeOt	%		FUS-ICP	5.26	4.90	1.78	0.99	10.98	6.08	5.35	11.64	4.81	11.15	
MnO	%	0.001	FUS-ICP	0.115	0.085	0.03	0.017	0.214	0.076	0.062	0.204	0.265	0.248	
MgO	%	0.01	FUS-ICP	1.92	1.46	0.57	0.11	5.88	3.84	4.57	19.87	4.05	8.75	
CaO	%	0.01	FUS-ICP	4.06	2.18	0.1	0.05	8.73	2.06	3.02	7.84	7.32	9.73	
Na2O	%	0.01	FUS-ICP	3.34	2.94	4.81	3.5	3.04	2.61	3.16	0.72	1.36	2.47	
K2O	%	0.01	FUS-ICP	2.81	3.88	2.2	4.9	1.64	4.78	5.21	0.14	1.67	0.66	
TiO2	%	0.001	FUS-ICP	0.587	0.635	0.245	0.091	1.105	0.902	0.939	0.647	0.595	1.413	
P2O5	%	0.01	FUS-ICP	0.13	0.14	0.07	0.06	0.11	0.17	0.32	0.06	0.15	0.11	
LOI	%		FUS-ICP	0.69	0.48	0.77	0.66	0.72	1.01	0.85	1.88	2.63	1.28	
Total	%	0.01	FUS-ICP	99.17	98.42	98.77	100.4	100.1	98.69	100.2	99.88	100.8	100	
Se	ppm	1	FUS-ICP	10	5	3	2	34	13	14	18	12	39	
Be	ppm	1	FUS-ICP	3	3	2	4	2	2	2	< 1	3	< 1	
Y	ppm	5	FUS-ICP	75	51	20	5	299	87	102	177	78	336	
Ba	ppm	3	FUS-ICP	446	598	702	161	193	1076	1540	35	369	90	
Sr	ppm	2	FUS-ICP	213	207	530	63	244	232	481	33	112	205	
Y	ppm	2	FUS-ICP	25	13	8	18	23	20	17	10	21	17	
Zr	ppm	4	FUS-ICP	312	326	98	79	83	270	352	34	159	68	
Cr	ppm	20	FUS-MS	30	40	40	30	130	30	150	920	120	190	
Co	ppm	1	FUS-MS	13	14	12	8	37	17	17	92	17	51	
Ni	ppm	20	FUS-MS	< 20	< 20	< 20	< 20	80	< 20	40	690	40	150	
Cu	ppm	10	FUS-MS	< 10	30	< 10	< 10	20	40	50	60	50	100	
Zn	ppm	30	FUS-MS	70	70	50	60	110	80	60	90	80	100	
Ga	ppm	1	FUS-MS	20	21	19	19	19	21	21	10	18	18	
Ge	ppm	1	FUS-MS	2	1	3	3	2	2	2	3	4	5	
As	ppm	5	FUS-MS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Rb	ppm	2	FUS-MS	117	172	53	267	53	199	213	3	116	22	
Nb	ppm	1	FUS-MS	16	17	3	10	6	17	12	2	14	5	
Mo	ppm	2	FUS-MS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	4	< 2	
Ag	ppm	0.5	FUS-MS	2.1	2.4	1.4	1.1	0.7	2.2	3	0.6	2.4	1.2	
In	ppm	0.2	FUS-MS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Sn	ppm	1	FUS-MS	3	1	< 1	4	3	4	2	3	3	1	
Sb	ppm	0.5	FUS-MS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cs	ppm	0.5	FUS-MS	3	4.3	1	5.5	1.1	4.4	3.5	< 0.5	7.2	1.5	
La	ppm	0.1	FUS-MS	65.4	70.8	19.6	33.1	17.1	61.2	69.9	3.8	29.5	5.1	
Ce	ppm	0.1	FUS-MS	123	136	36	62.8	36.8	114	135	8.3	59.6	12.9	
Pr	ppm	0.05	FUS-MS	13	14.6	3.85	6.48	4.21	11.7	13.8	1.14	6.51	1.9	
Nd	ppm	0.1	FUS-MS	47.2	55	13.4	24.4	17.2	43.4	50.2	5.7	23.9	9.9	
Sm	ppm	0.1	FUS-MS	8.4	8.8	2.4	5.2	4.2	7.7	7.8	1.6	4.6	3.1	
Eu	ppm	0.05	FUS-MS	149	142	0.81	0.36	1.53	1.5	1.65	0.41	0.91	0.98	
Gd	ppm	0.1	FUS-MS	6.3	6.1	1.4	4	4.3	5.8	5.4	1.6	3.8	3.4	
Tb	ppm	0.1	FUS-MS	0.9	0.7	0.2	0.5	0.8	0.8	0.7	0.3	0.6	0.6	
Dy	ppm	0.1	FUS-MS	5.3	3.3	0.9	2.9	4.6	4.3	3.6	1.6	3.3	3.2	
Ho	ppm	0.1	FUS-MS	1	0.5	0.2	0.5	0.9	0.7	0.6	0.3	0.6	0.6	
Er	ppm	0.1	FUS-MS	2.8	1.4	0.5	1.4	2.7	2	1.8	0.9	2	1.7	
Tm	ppm	0.05	FUS-MS	0.42	0.18	0.07	0.2	0.4	0.27	0.25	0.14	0.31	0.26	
Yb	ppm	0.1	FUS-MS	2.7	1.2	0.4	1.1	2.5	1.6	1.5	0.9	2	1.7	
Lu	ppm	0.04	FUS-MS	0.42	0.18	0.06	0.16	0.38	0.25	0.22	0.13	0.27	0.23	
Hf	ppm	0.2	FUS-MS	7.2	8.3	2.5	2.6	2.1	6.8	7	0.8	3.8	1.6	
Ta	ppm	0.1	FUS-MS	0.9	1.1	0.5	2.1	0.4	1.3	0.7	0.2	1.2	0.3	
V	ppm	1	FUS-MS	28	47	96	98	11	21	9	1	2	1	
Tl	ppm	0.1	FUS-MS	0.5	0.9	0.4	1.1	0.3	0.8	0.8	0.4	0.8	0.4	
Pb	ppm	5	FUS-MS	19	23	13	33	10	20	16	< 5	11	< 5	
Bi	ppm	0.4	FUS-MS	< 0.4	< 0.4	< 0.4	2	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	
Th	ppm	0.1	FUS-MS	18.3	23.4	3.7	33.2	4.8	29.6	20.3	0.6	8.6	0.4	
U	ppm	0.1	FUS-MS	3.1	3.8	0.7	17	3	3.7	2.4	0.1	2.8	0.2	

				<i>Rochas Ortoderivadas</i>				
				<i>Terreno Occidental</i>				
Analyte Symbol	Unit Symbol	Detection Limit	Analysis Method	GL-8IE	GL-02E	GL-03	GL-02D	MS-49-D
SiO2	%	0.01	FUS-ICP	67.28	70.65	59.45	70.2	68.42
Al2O3	%	0.01	FUS-ICP	14.3	14.21	14.82	14.25	14.99
Fe2O3(T)	%	0.01	FUS-ICP	5.25	2.65	7.92	2.53	3.37
FeOt	%		FUS-ICP	4.72	2.38	7.13	2.28	3.03
MnO	%	0.001	FUS-ICP	0.061	0.048	0.128	0.049	0.04
MgO	%	0.01	FUS-ICP	1.19	0.52	2.64	0.47	1.32
CaO	%	0.01	FUS-ICP	1.09	1.78	5.3	1.74	0.12
Na2O	%	0.01	FUS-ICP	1.77	3.18	3.14	3.2	2.94
K2O	%	0.01	FUS-ICP	4.58	5.61	3.89	5.26	5.71
TiO2	%	0.001	FUS-ICP	0.799	0.427	1.851	0.394	0.46
P2O5	%	0.01	FUS-ICP	0.27	0.12	0.8	0.11	0.45
LOI	%		FUS-ICP	2.47	0.51	0.5	0.55	0.99
Total	%	0.01	FUS-ICP	99.06	99.7	100.4	98.74	98.82
Se	ppm	1	FUS-ICP	14	4	16	4	5
Be	ppm	1	FUS-ICP	4	4	4	4	5
Y	ppm	5	FUS-ICP	34	26	146	24	38
Ba	ppm	3	FUS-ICP	997	1046	1833	968	1195
Sr	ppm	2	FUS-ICP	107	215	705	204	370
Y	ppm	2	FUS-ICP	41	19	40	18	15
Zr	ppm	4	FUS-ICP	334	282	466	269	342
Cr	ppm	20	FUS-MS	< 20	< 20	20	< 20	50
Co	ppm	1	FUS-MS	10	12	17	18	11
Ni	ppm	20	FUS-MS	< 20	< 20	20	< 20	30
Cu	ppm	10	FUS-MS	< 10	< 10	20	< 10	20
Zn	ppm	30	FUS-MS	90	50	110	50	60
Ga	ppm	1	FUS-MS	25	22	21	22	20
Ge	ppm	1	FUS-MS	3	2	2	2	4
As	ppm	5	FUS-MS	< 5	< 5	< 5	< 5	< 5
Rb	ppm	2	FUS-MS	215	290	144	283	244
Nb	ppm	1	FUS-MS	13	23	33	21	8
Mo	ppm	2	FUS-MS	< 2	< 2	2	< 2	< 2
Ag	ppm	0.5	FUS-MS	2.4	2.3	3.8	1.8	4.3
In	ppm	0.2	FUS-MS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Sn	ppm	1	FUS-MS	5	2	4	2	3
Sb	ppm	0.5	FUS-MS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cs	ppm	0.5	FUS-MS	13.1	2.5	2.4	3	13
La	ppm	0.1	FUS-MS	57.6	103	102	126	128
Ce	ppm	0.1	FUS-MS	120	197	212	238	234
Pr	ppm	0.05	FUS-MS	13.7	19.6	23.8	24.4	23.9
Nd	ppm	0.1	FUS-MS	54.4	67.3	90.6	81.7	79.9
Sm	ppm	0.1	FUS-MS	10.1	9.8	14.9	11.4	10.7
Eu	ppm	0.05	FUS-MS	1.39	1.1	3	1.2	1.74
Gd	ppm	0.1	FUS-MS	7.7	5.8	10.5	6.9	5.4
Tb	ppm	0.1	FUS-MS	1.2	0.8	1.4	0.9	0.6
Dy	ppm	0.1	FUS-MS	7.3	4	7.6	4.1	3
Ho	ppm	0.1	FUS-MS	1.4	0.7	1.4	0.7	0.5
Er	ppm	0.1	FUS-MS	4.1	1.9	3.8	1.9	1.4
Tm	ppm	0.05	FUS-MS	0.64	0.25	0.55	0.24	0.19
Yb	ppm	0.1	FUS-MS	4.1	1.7	3.4	1.5	1.1
Lu	ppm	0.04	FUS-MS	0.62	0.25	0.53	0.23	0.16
Hf	ppm	0.2	FUS-MS	7.8	6.6	9.7	6.6	8.4
Ta	ppm	0.1	FUS-MS	1.1	1	2	0.9	0.5
V	ppm	1	FUS-MS	46	99	25	163	56
Tl	ppm	0.1	FUS-MS	1	1.2	0.6	1.3	1.5
Pb	ppm	5	FUS-MS	23	28	19	31	39
Bi	ppm	0.4	FUS-MS	4.4	< 0.4	< 0.4	< 0.4	< 0.4
Th	ppm	0.1	FUS-MS	19.1	29	19.2	37.7	144
U	ppm	0.1	FUS-MS	6.2	3.9	4.2	4	12.1