

**Table 6.** Correlation matrix ( $p=0.05$ ) of all elements with significant correlation coefficients  $>r=0.5$ . The element contents of all locations and all layers were summarized.

	C	N	P	K	S	Ca	Mg	Mn	Zn	Cu	Mo	Co	Ba	Rb	Sr	Pb	Ni	As	Cr	V	Ti	Si	Al	Fe	Ga	Y	Nb	Zr	
C	1																												
N	0.96	1																											
P	0.51	0.58	1																										
K		0.50		1																									
S	0.90	0.91	0.63		1																								
Ca	0.73	0.77	0.81		0.77	1																							
Mg	0.70	0.76	0.83	0.55	0.76	0.89	1																						
Mn		0.68		0.52	0.67	0.60		1																					
Zn		0.82		0.71	0.60	0.77		1																					
Cu			0.63			0.66			1																				
Mo										1																			
Co						0.50	0.56	0.50	0.57		1																		
Ba		0.80			0.64	0.66	0.57	0.73				1																	
Rb			0.64					0.64					1																
Sr		0.59			0.65	0.51	0.62	0.65			0.69			1															
Pb												0.61			1														
Ni																	1												
As																		1											
Cr																			0.62	1									
V																0.65			0.72	0.90	1								
Ti																			0.59	0.50	0.66	1							
Si																			-0.66	-0.59	-0.72	-0.55	1						
Al		-0.51																	0.50	0.57		-0.96	1						
Fe																			0.73	0.88	0.93	0.52	-0.80	0.66	1				
Ga			-0.52	-0.54	-0.52														0.61	0.53	0.66		-0.90	0.94	0.77	1			
Y																						0.50	-0.69	0.74		0.63	1		
Nb		-0.50																				0.59	0.64	-0.52		0.57	0.53	0.57	1
Zr																						0.50	0.51			0.65	0.93	0.56	1

Table 7: Correlation coefficients of selected element pairs at the forest site (F99) and the different pasture sites.

Table 8: Selected ratios of important geochemical element-pairs at the forest reference site in 1999 (F99) and the pasture sequence at Fazenda Nova Vida.

	C/N	C/S	N/S	C/P	N/P
F99	0.965	0.026	0.142	-0.532	-0.595
P87	0.950	0.918	0.926	0.842	0.819
P88	0.980	0.933	0.927	0.361	0.443
P72	0.985	0.932	0.947	0.742	0.714
P11	0.973	0.934	0.920	0.734	0.711