

▼ Multivariate Analysis of Variance - biótopo

1 case(s) are deleted due to missing data.
N of Cases Processed: 115

Dependent Variable Means										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
1,642	0,926	1,374	1,807	1,803	1,434	1,554	0,351	2,412	1,782	

Regression Coefficients B = (X'X) ⁻¹ X'Y									
Factor	SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	
CONSTANT	1,846	0,519	0,958	1,999	2,231	1,771	1,537	0,460	
BIOTOPO	-0,047	0,095	0,097	-0,045	-0,100	-0,078	0,004	-0,026	

Regression Coefficients B = (X'X) ⁻¹ X'Y		
Factor	NKT	PT
CONSTANT	2,339	1,868
BIOTOPO	0,017	-0,020

Information Criteria	
AIC	1.835,474
AIC (Corrected)	2.127,782
Schwarz's BIC	2.041,344

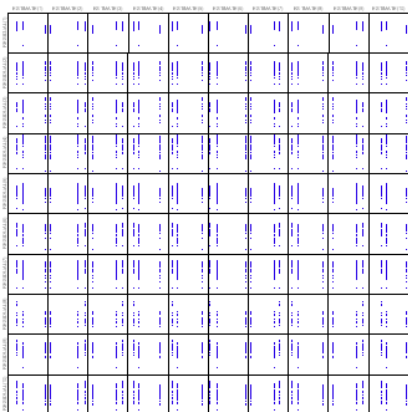
Multiple Correlations										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
0,191	0,171	0,160	0,094	0,239	0,151	0,006	0,081	0,039	0,046	

Adjusted R² = 1-(1-R²)*(N-1)/df, where N = 115, and df = 113

Adjusted R ²										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
0,028	0,021	0,017	0,000	0,049	0,014	0,000	0,000	0,000	0,000	

Residuals have been saved.

Plot of Residuals vs. Predicted Values



▼ Hypothesis Tests

Univariate F-Tests					
Source	Type III SS	df	Mean Squares	F-Ratio	p-Value
SOLIDO	311,067	2	155,533	734,948	0,000
Error	23,914	113	0,212		
AMG	102,304	2	51,152	47,972	0,000
Error	120,492	113	1,066		
AG	220,779	2	110,390	86,441	0,000
Error	144,307	113	1,277		
AM	376,190	2	188,095	235,911	0,000
Error	90,096	113	0,797		
AF	377,718	2	188,859	320,959	0,000
Error	66,492	113	0,588		
AMF	238,943	2	119,471	126,912	0,000
Error	106,375	113	0,941		
SILTE	277,637	2	138,819	103,277	0,000
Error	151,888	113	1,344		
ARGILA	14,392	2	7,196	20,138	0,000
Error	40,378	113	0,357		
NKT	669,018	2	334,509	505,254	0,000
Error	74,813	113	0,662		
PT	365,237	2	182,619	270,470	0,000
Error	76,296	113	0,675		

Multivariate Test Statistics				
Statistic	Value	F-Ratio	df	p-Value
Wilks's Lambda	0,044	38,971	20, 208	0,000
Pillai Trace	1,236	16,973	20, 210	0,000
Hotelling-Lawley Trace	15,226	78,415	20, 206	0,000

THETA	SM	N	p-Value	
0,937	2	3,500	51,000	0,000

▼ Multivariate Analysis of Variance == coleta

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Dependent Variable Means										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
1,642	0,926	1,374	1,807	1,803	1,434	1,554	0,351	2,412	1,782	

Regression Coefficients B = (X'X) ⁻¹ X'Y									
Factor	SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	
CONSTANT	1,800	0,344	1,019	1,725	2,124	1,942	2,262	0,602	
COLETA	-0,063	0,234	0,143	0,033	-0,129	-0,204	-0,285	-0,101	

Regression Coefficients B = (X'X) ⁻¹ X'Y		
Factor	NKT	PT
CONSTANT	2,585	1,977

Regression Coefficients B = (X'X) ⁻¹ X'Y		
Factor	NKT	PT
COLETA	-0,070	-0,079

Information Criteria	
AIC	1.858,379
AIC (Corrected)	2.150,687
Schwarz's BIC	2.064,249

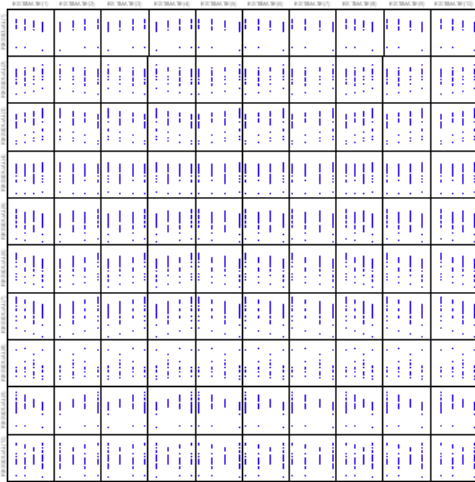
Multiple Correlations									
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGIL	NKT	PT
0,152	0,251	0,140	0,041	0,184	0,234	0,276	0,190	0,096	0,108

Adjusted R² = 1-(1-R²)*(N-1)/df, where N = 115, and df = 113

Adjusted R ²									
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGIL	NKT	PT
0,014	0,055	0,011	0,000	0,025	0,046	0,068	0,027	0,001	0,003

Residuals have been saved.

Plot of Residuals vs. Predicted Values



▼ Hypothesis Tests

Univariate F-Tests					
Source	Type III SS	df	Mean Squares	F-Ratio	p-Value
SOLIDO	310,737	2	155,368	724,176	0,000
Error	24,244	113	0,215		
AMG	106,507	2	53,253	51,747	0,000
Error	116,290	113	1,029		
AG	219,909	2	109,955	85,584	0,000
Error	145,177	113	1,285		
AM	375,542	2	187,771	233,823	0,000
Error	90,745	113	0,803		
AF	376,089	2	188,044	311,931	0,000

Univariate F-Tests					
Source	Type III SS	df	Mean Squares	F-Ratio	p-Value
Error	68,121	113	0,603		
AMF	242,424	2	121,212	133,117	0,000
Error	102,894	113	0,911		
SILTE	289,194	2	144,597	116,435	0,000
Error	140,332	113	1,242		
ARGILA	15,589	2	7,795	22,479	0,000
Error	39,182	113	0,347		
NKT	669,597	2	334,799	509,640	0,000
Error	74,233	113	0,657		
PT	365,959	2	182,979	273,590	0,000
Error	75,575	113	0,669		

Multivariate Test Statistics				
Statistic	Value	F-Ratio	df	p-Value
Wilks's Lambda	0,054	34,292	20, 208	0,000
Pillai Trace	1,083	12,401	20, 210	0,000
Hotelling-Lawley Trace	14,934	76,910	20, 206	0,000

THETA	SM	N	p-Value	
0,937	2	3,500	51,000	0,000

▼ Multivariate Analysis of Variance - eixo

1 case(s) are deleted due to missing data.
N of Cases Processed: 115

Dependent Variable Means									
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT
1,642	0,926	1,374	1,807	1,803	1,434	1,554	0,351	2,412	1,782

Regression Coefficients B = (X'X) ⁻¹ X'Y								
Factor	SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA
CONSTANT	1,506	0,748	1,175	1,645	1,549	1,331	1,373	0,383
EIXO	0,110	0,144	0,160	0,130	0,204	0,083	0,146	-0,026

Regression Coefficients B = (X'X) ⁻¹ X'Y		
Factor	NKT	PT
CONSTANT	1,872	1,456
EIXO	0,434	0,262

Information Criteria	
AIC	1.865,231
AIC (Corrected)	2.157,539
Schwarz's BIC	2.071,101

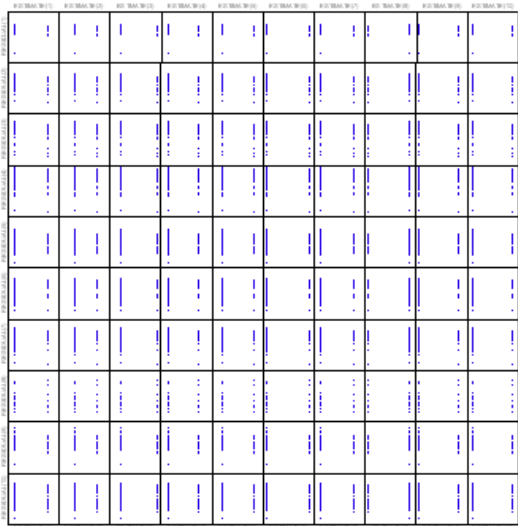
Multiple Correlations									
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT
0,101	0,059	0,060	0,063	0,112	0,037	0,054	0,019	0,231	0,138

Adjusted R² = 1-(1-R²)*(N-1)/df, where N = 115, and df = 113

Adjusted R ²									
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT
0,002	0,000	0,000	0,000	0,004	0,000	0,000	0,000	0,045	0,010

Residuals have been saved.

Plot of Residuals vs. Predicted Values



▼ Hypothesis Tests

Univariate F-Tests					
Source	Type III SS	df	Mean Squares	F-Ratio	p-Value
SOLIDO	310,419	2	155,210	714,089	0,000
Error	24,561	113	0,217		
AMG	99,121	2	49,560	45,282	0,000
Error	123,676	113	1,094		
AG	217,545	2	108,773	83,308	0,000
Error	147,541	113	1,306		
AM	375,746	2	187,873	234,477	0,000
Error	90,541	113	0,801		
AF	374,588	2	187,294	303,990	0,000
Error	69,622	113	0,616		
AMF	236,605	2	118,302	122,967	0,000
Error	108,713	113	0,962		
SILTE	278,081	2	139,041	103,745	0,000
Error	151,445	113	1,340		
ARGILA	14,143	2	7,072	19,669	0,000
Error	40,627	113	0,360		
NKT	672,890	2	336,445	535,914	0,000
Error	70,941	113	0,628		
PT	366,526	2	183,263	276,086	0,000
Error	75,008	113	0,664		

Multivariate Test Statistics

Statistic	Value	F-Ratio	df	p-Value
Wilks's Lambda	0,057	32,980	20, 208	0,000
Pillai Trace	1,026	11,057	20, 210	0,000
Hotelling-Lawley Trace	14,949	76,987	20, 206	0,000

THETA	S	M	N	p-Value
0,937	2	3,500	51,000	0,000

▼ Multivariate Analysis of Variance - pts

1 case(s) are deleted due to missing data.
N of Cases Processed: 115

Dependent Variable Means										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
1,642	0,926	1,374	1,807	1,803	1,434	1,554	0,351	2,412	1,782	

Regression Coefficients B = (X'X) ⁻¹ X'Y									
Factor	SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	
CONSTANT	1,970	0,907	1,497	2,218	2,330	1,927	1,895	0,526	
PTS	-0,022	0,001	-0,008	-0,027	-0,035	-0,033	-0,023	-0,012	

Regression Coefficients B = (X'X) ⁻¹ X'Y		
Factor	NKT	PT
CONSTANT	2,764	1,938
PTS	-0,023	-0,010

Information Criteria	
AIC	1.845,955
AIC (Corrected)	2.138,263
Schwarz's BIC	2.051,825

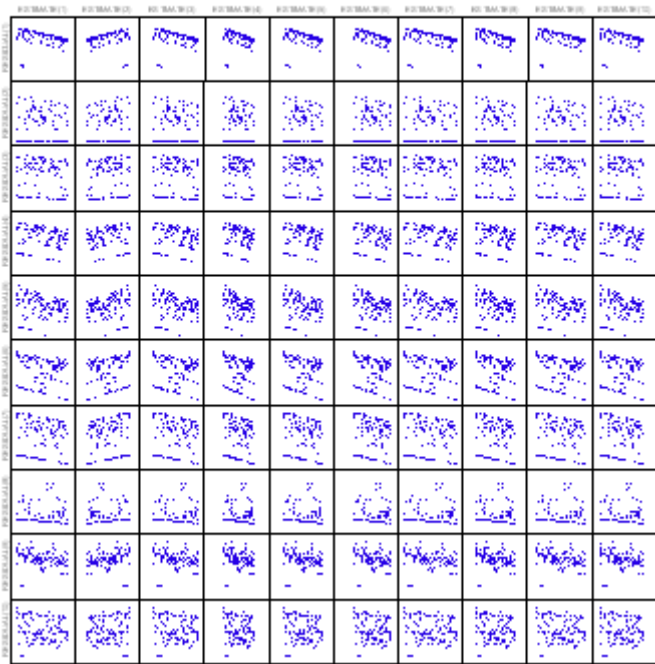
Multiple Correlations										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
0,391	0,010	0,060	0,257	0,374	0,281	0,165	0,164	0,242	0,106	

Adjusted R² = 1-(1-R²)*(N-1)/df, where N = 115, and df = 113

Adjusted R ²										
SOLIDO	AMG	AG	AM	AF	AMF	SILTE	ARGILA	NKT	PT	
0,146	0,000	0,000	0,058	0,132	0,071	0,019	0,018	0,050	0,003	

Residuals have been saved.

Plot of Residuals vs. Predicted Values



▼ Hypothesis Tests

Univariate F-Tests					
Source	Type III SS	df	Mean Squares	F-Ratio	p-Value
SOLIDO	313,964	2	156,982	844,075	0,000
Error	21,016	1130	186		
AMG	98,698	2	49,349	44,935	0,000
Error	124,099	1131	1,098		
AG	217,544	2	108,772	83,306	0,000
Error	147,542	1131	1,306		
AM	381,394	2	190,697	253,837	0,000
Error	84,892	1130	751		
AF	383,576	2	191,788	357,424	0,000
Error	60,634	1130	537		
AMF	245,080	2	122,540	138,141	0,000
Error	100,238	1130	887		
SILTE	281,760	2	140,880	107,735	0,000
Error	147,765	1131	1,308		
ARGILA	15,224	2	7,612	21,750	0,000
Error	39,547	1130	350		
NKT	673,293	2	336,647	539,301	0,000
Error	70,538	1130	624		
PT	365,939	2	182,970	273,505	0,000
Error	75,595	1130	669		

Multivariate Test Statistics				
Statistic	Value	F-Ratio	df	p-Value
Wilks's Lambda	0,049	36,772	20, 208	0,000
Pillai Trace	1,063	11,919	20, 210	0,000

Multivariate Test Statistics				
Statistic	Value	F-Ratio	df	p-Value
Hotelling-Lawley Trace	17,271	88,946	20, 206	0,000

THETA	S	M	N	p-Value
0,945	2	3,500	51,000	0,000