

▼ File: E:\QASLAGO.syz

Number of Variables : 10
Number of Cases : 105

SYSTAT Rectangular file E:\QASLAGO.syz,
Created data file Tue Jul 22 17:13:13 2014 containing variables:

```
$PONTOSDE_COLE- PONTOS EIXO COLETA PROFUNDIDADE PH  
TA$  
COND TURB OD TEMP(1)
```

```
> REM -- Following commands were produced by the MANOVA dialog:  
> MANOVA  
> SAVE 'C:\Users\FernandaT\SYSTAT\SYSTAT_13\Data\QASPROF' / RESIDUALS  
> MODEL PH COND TURB OD TEMP(1) = CONSTANT+PROFUNDIDADE  
> ESTIMATE /SS = TYPE3
```

▼ Multivariate Analysis of Variance

12 case(s) are deleted due to missing data.
N of Cases Processed: 93

Dependent Variable Means

PH	COND	TURB	OD	TEMP(1)
6,118	1,257	1,267	0,458	1,440

Regression Coefficients $B = (X'X)^{-1}X'Y$

Factor	PH	COND	TURB	OD	TEMP(1)
CONSTANT	6,287	1,255	1,270	0,426	1,450
PROFUNDIDADE	-0,108	0,001	-0,002	0,020	-0,006

Information Criteria

AIC	-102,334
AIC (Corrected)	-82,931
Schwarz's BIC	-39,019

Multiple Correlations

PH	COND	TURB	OD	TEMP(1)
0,179	0,010	0,009	0,096	0,356

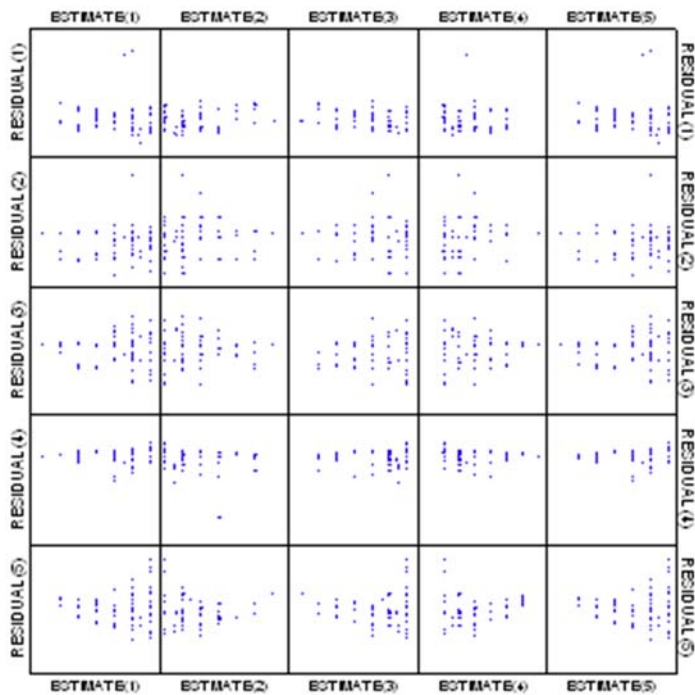
Adjusted $R^2 = 1 - (1 - R^2) * (N - 1) / df$, where $N = 93$, and $df = 91$

Adjusted R^2

PH	COND	TURB	OD	TEMP(1)
0,021	0,000	0,000	0,000	0,117

Residuals have been saved.

Plot of Residuals vs. Predicted Values



```
> REM -- End of commands from the MANOVA dialog
> REM -- Following commands were produced by the MANOVAHYPO dialog:
> HYPOTHESIS
```

▼ Hypothesis Tests

Univariate F-Tests

Source	Type III SS	df	Mean Squares	F-Ratio	p-Value
PH	3.483,444	2	1.741,722	1.998,517	0,000
Error	79,307	91	0,872		
COND	146,992	2	73,496	1.523,119	0,000
Error	4,391	91	0,048		
TURB	149,367	2	74,683	1.031,435	0,000
Error	6,589	91	0,072		
OD	19,605	2	9,802	87,668	0,000
Error	10,175	91	0,112		
TEMP(1)	192,849	2	96,425	148.874,455	0,000
Error	0,059	91	0,001		

Multivariate Test Statistics

Statistic	Value	F-Ratio	df	p-Value
Wilks's Lambda	0,000	1.108,618	10, 174	0,000
Pillai Trace	1,041	19,092	10, 176	0,000
Hottelling-Lawley Trace	4.015,615	34.534,292	10, 172	0,000

THETA	S	M	N	p-Value
1,000	2	1,000	42,500	0,000