```
#############################################################
Analysis of Variance Table

Response: log10(P+1)
                Df  Sum Sq  Mean_Sq  F_value  Pr(>F)
log10(Altitude+1)  1   0.17707 0.177071 6.1959   0.04165 *
Residuals          7   0.20005 0.028579
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Multiple R-squared:  0.4695,   Adjusted R-squared:  0.3938

ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS
USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:
Level of Significance =  0.05

                     Value p-value                  Decision
Global Stat        0.76230  0.9434 Assumptions acceptable.
Skewness           0.01771  0.8941 Assumptions acceptable.
Kurtosis           0.52677  0.4680 Assumptions acceptable.
Link Function      0.18207  0.6696 Assumptions acceptable.
Heteroscedasticity 0.03575  0.8500 Assumptions acceptable.
```
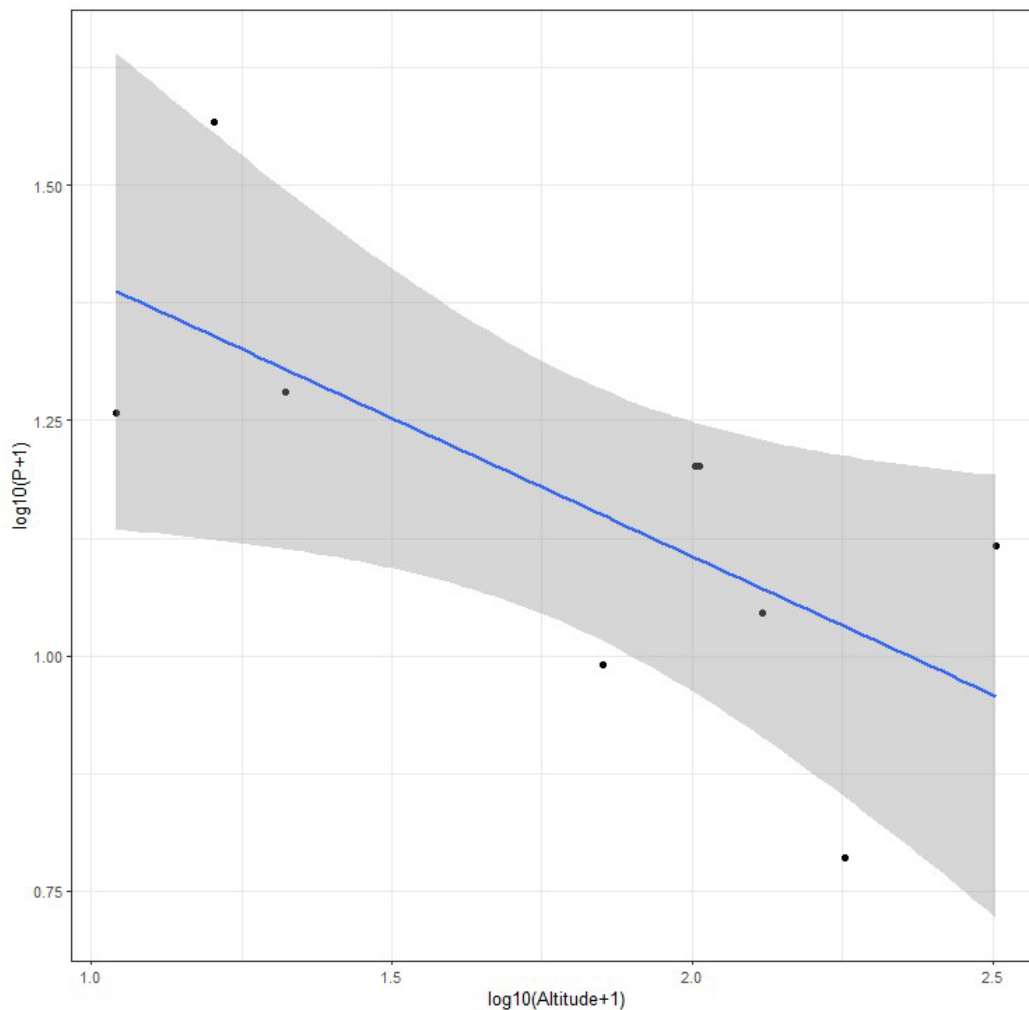
Phosphorus vs. altitude

```
############################################################
Analysis of Variance Table

Response: log10(SOC+1)
          Df  Sum Sq Mean Sq F value   Pr(>F)
ΔpH        1 1.48086 1.48086  14.629 0.006502 **
Residuals  7 0.70859 0.10123
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Multiple R-squared:  0.6764,   Adjusted R-squared:  0.6301


ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS
USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:
Level of Significance =  0.05

                         Value p-value                  Decision
Global Stat           0.642930  0.9582 Assumptions acceptable.
Skewness              0.009467  0.9225 Assumptions acceptable.
Kurtosis              0.496774  0.4809 Assumptions acceptable.
Link Function         0.065113  0.7986 Assumptions acceptable.
Heteroscedasticity    0.071576  0.7891 Assumptions acceptable.
```
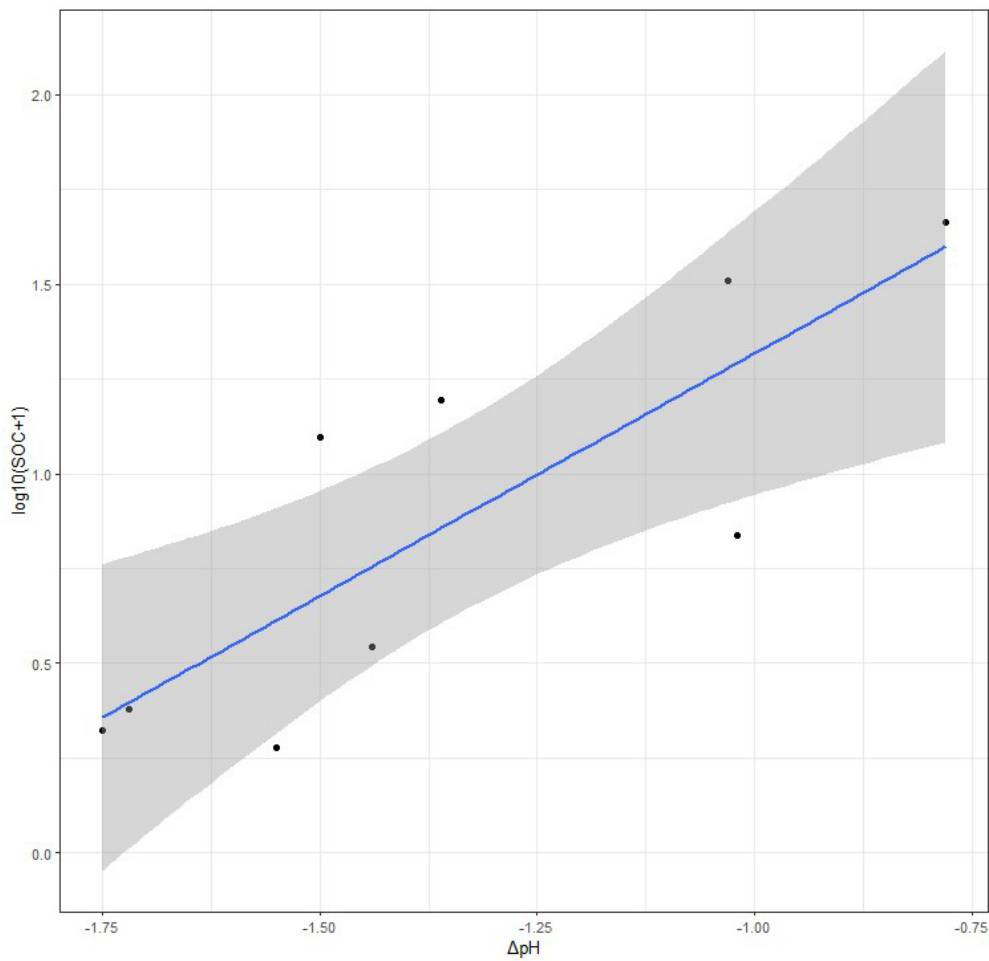
SOC vs. ΔpH

```
############################################################
Analysis of Variance Table

Response: GRSP
               Df Sum Sq Mean Sq F value   Pr(>F)
log10(SOC+1)    1 545470  545470  14.562 0.006576 **
Residuals       7 262210   37459
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Multiple R-squared:  0.6754,   Adjusted R-squared:  0.629

ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS
USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:
Level of Significance =  0.05

                          Value p-value                Decision
Global Stat             5.25450  0.2622 Assumptions acceptable.
Skewness                1.36409  0.2428 Assumptions acceptable.
Kurtosis                0.04924  0.8244 Assumptions acceptable.
Link Function           2.50859  0.1132 Assumptions acceptable.
Heteroscedasticity      1.33258  0.2483 Assumptions acceptable.
```

GRSP vs. SOC