

NxWater - 16S

November 20, 2023

Contents

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## Analysis of Variance Table
##
## Response: Distances
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Groups      9 0.43831  0.048702   3.5636 0.0003632 ***
## Residuals 231 3.15694  0.013666
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## Analysis of Variance Table
##
## Response: Distances
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Groups      1 0.04924  0.049238   4.291 0.03939 *
## Residuals 239 2.74246  0.011475
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## Analysis of Variance Table
##
## Response: Distances
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Groups      2 0.07907  0.039533   3.4424 0.03359 *
## Residuals 238 2.73322  0.011484
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## Permutation test for adonis under reduced model
## Terms added sequentially (first to last)
## Permutation: free
## Number of permutations: 999
##
## adonis2(formula = dist ~ Nitrogen * Water * Sample.date, data = d)
##           Df SumOfSqs      R2      F Pr(>F)
## Nitrogen    2    0.636 0.01464  2.4872 0.006 **
```

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## Water          1    0.426 0.00981  3.3313  0.006 **
## Sample.date    9   12.545 0.28874 10.8992  0.001 ***
## Nitrogen:Water  2    0.452 0.01041  1.7690  0.044 *
## Nitrogen:Sample.date 18  2.651 0.06101  1.1516  0.115
## Water:Sample.date  8    1.355 0.03119  1.3245  0.068 .
## Nitrogen:Water:Sample.date 16  1.851 0.04259  0.9044  0.775
## Residual       184   23.532 0.54160
## Total          240   43.449 1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## [1] 0.014642254 0.009805738 0.288736017 0.010414291 0.061012791 0.031189213
## [7] 0.042594729 0.541604969 1.000000000

## [1] 0.458395

## Permutation test for dbrda under reduced model
## Permutation: free
## Number of permutations: 999
##
## Model: dbrda(formula = dist ~ Nitrogen * Water * Sample.date, data = d)
##           Df SumOfSqs      F Pr(>F)
## Model      56   19.917 2.7809  0.001 ***
## Residual  184   23.532
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

