

Harvard Forest Data Archive HF078-01

Data File:

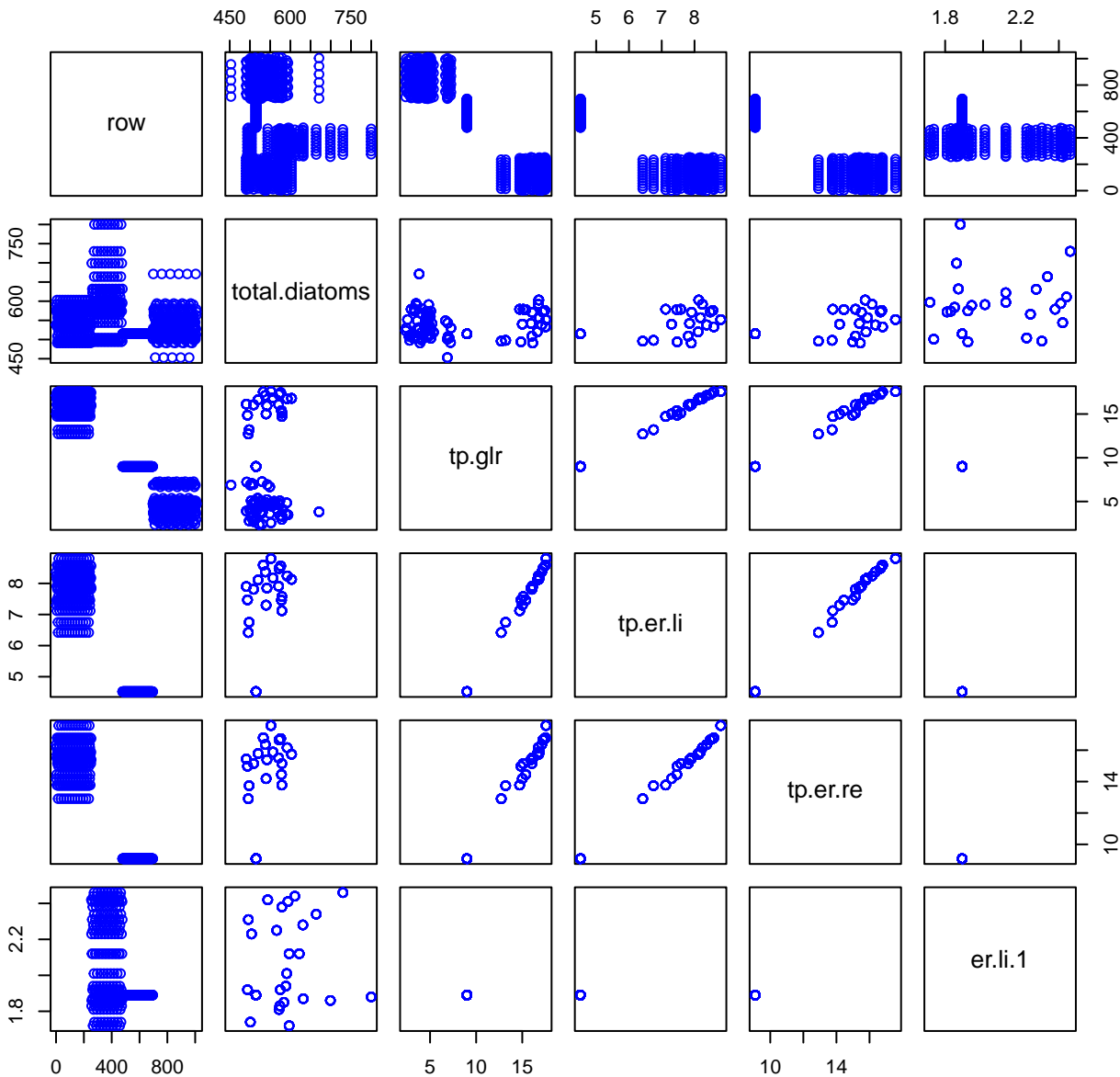
Name = hf078-01-diatom.csv
Description = diatoms
Rows = 38336 Columns = 13
MD5 checksum = 061f015e75bd92e5f87e16c3a5a3f941

Variables:

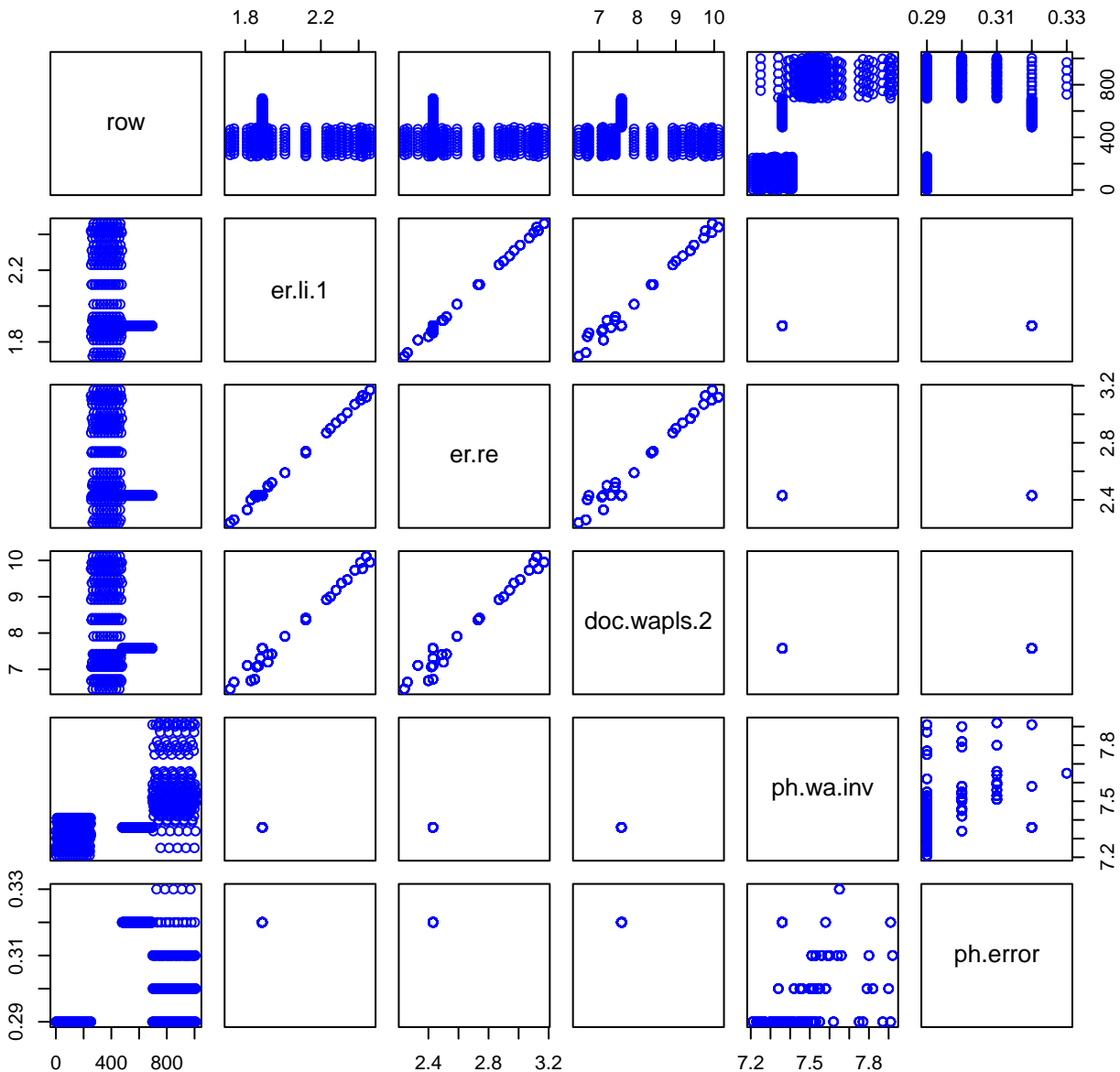
total.diatoms = total number of counted valves (number)
tp.glr = inferred total phosphorus concentration. Values of limnological variables in summer surface lake water reconstructed by the use of diatom models based on a 82-lake calibration set from New England (U.S.) and using the methods of Gaussian Logit regression (GLR) for total phosphorus (TP). (microgramsPerLiter)
tp.er.li = lower error value for inferred total phosphorus concentration (microgramsPerLiter)
tp.er.re = higher error value for inferred total phosphorus concentration. These values are different when models are based on log-transformed environmental data. Reconstructed values are back-transformed using an exponential transformation. Therefore, back-transformed values at the lower end are smaller than back-transformed values at the higher end. (microgramsPerLiter)
er.li.1 = lower error value for inferred dissolved organic carbon concentration (milligramsPerLiter)
er.re = higher error value inferred dissolved organic carbon concentration. These values are different when models are based on log-transformed environmental data. Reconstructed values are back-transformed using an exponential transformation. Therefore, back-transformed values at the lower end are smaller than back-transformed values at the higher end. (milligramsPerLiter)
doc.wapls.2 = inferred dissolved organic carbon concentration. Values of limnological variables in summer surface lake water reconstructed by the use of of a diatom model based on a 59-lake calibration set from Quebec (Canada) using weighted averaging partial least squares (WA-PLS) for reconstructing dissolved organic carbon (DOC) (milligramsPerLiter)
ph.wa.inv = pH values using weighted averaging with inverse deshrinking (WAinv) (number)
ph.error = pH error (number)
count = numbers of individual valves identified for each taxon in diatom assemblage (one complete frustule counting 2 valves) (number)

Variable	Min	Median	Mean	Max	NAs
total.diatom	441.000	529.000	542.897	1013.000	0
tp.glr	2.360	12.720	10.605	18.520	8736
tp.er.li	4.520	7.520	7.279	9.370	20692
tp.er.re	9.090	14.980	14.370	19.070	20692
er.li.1	1.650	2.000	2.044	2.610	21556
er.re	2.160	2.590	2.639	3.390	21556
doc.wapls.2	5.960	7.910	8.079	10.380	21556
ph.wa.inv	6.910	7.440	7.445	7.920	8736
ph.error	0.290	0.290	0.304	0.360	8736
count	0.000	0.000	2.938	447.000	0

HF078-01 Plot 1



HF078-01 Plot 2



HF078-01 Plot 3

