

Harvard Forest Data Archive HF224-01

Data File:

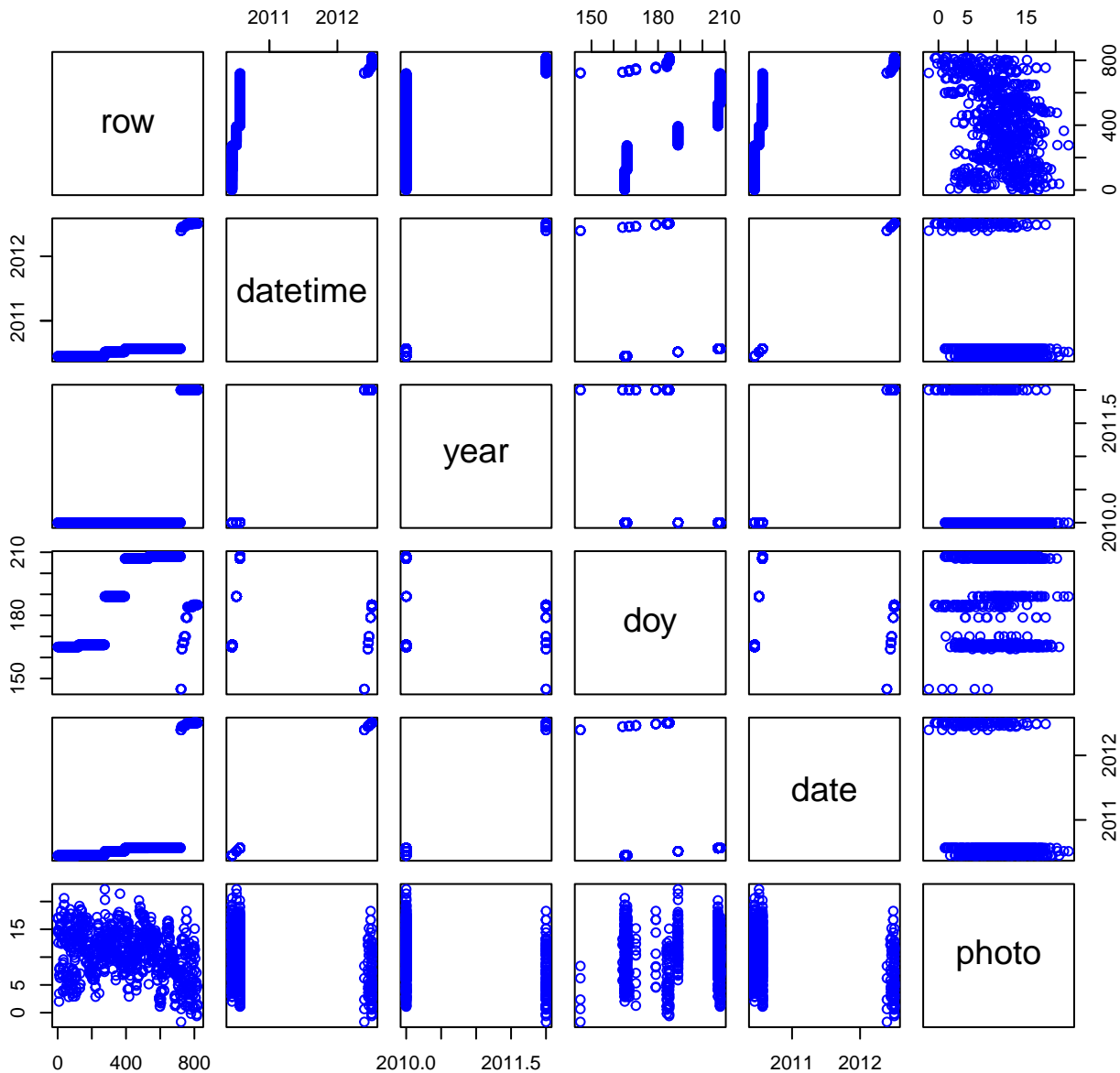
Name = hf224-01-leaf-gas.csv
Description = leaf gas exchange
Rows = 1638 Columns = 32
MD5 checksum = 47a0e024cc72ea0ed61cafccda5704b

Variables:

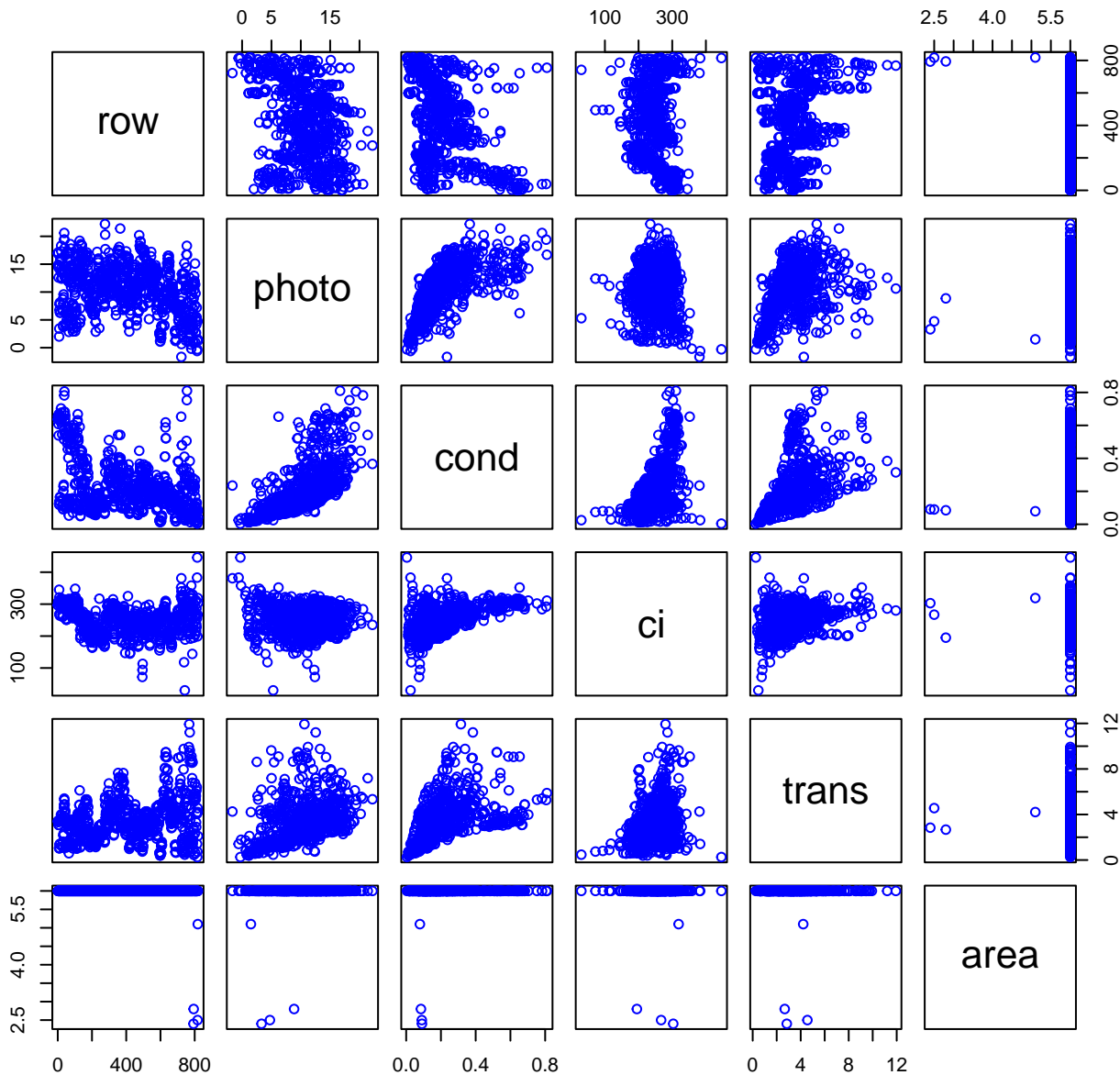
datetime = date and time of measurement
year = year sampled
doy = corresponding day of the year (nominalDay)
date = date sampled
photo = net assimilation in micromols CO2 per meter squared per
second (micromolePerMeterSquaredPerSecond)
cond = conductance to H2O in millimols of H2O per meter squared per
second (millimolePerMeterSquaredPerSecond)
ci = intercellular CO2 concentration (calculated) in micromols CO2
per
mol (dimensionless)
trans = transpiration rate in millimol H2O per meter squared per
second (millimolePerMeterSquaredPerSecond)
area = total area of leaf enclosed within the chamber
(squareCentimeters)
stm.ratio = stomatal ratio used in calculations (dimensionless)
tair = temperature in sample cell (celsius)
tleaf = temperature of leaf thermocouple (celsius)
co2.r = reference cell CO2 concentration in micromol CO2 per mol
(ppm) (dimensionless)
co2.s = sample cell CO2 concentration in micromol CO2 per mol
(ppm)
(dimensionless)
h2o.r = reference cell H2O concentration in millimol H2O per mol
(ppm) (dimensionless)
h2o.s = sample cell H2O concentration in millimol H2O per mol
(ppm)
(dimensionless)
rh.r = relative humidity in the reference cell (%) (dimensionless)
rh.s = relative humidity in the sample cell (%) (dimensionless)
par.in = quantum sensor inside the chamber
(micromolePerMeterSquaredPerSecond)
par.out = external quantum sensor
(micromolePerMeterSquaredPerSecond)
press = atmospheric pressure (kilopascal)

Variable	Min	Median	Mean	Max	NAs
datetime	2010-06-14T08:55:04		2012-07-03T15:40:34		0
year	2010.000	2010.000	2010.245	2012.000	0
doy	145.000	189.000	187.142	208.000	0
date	2010-06-14	2010-07-26	2010-10-03	2012-07-03	0
photo	-1.650	10.750	10.477	22.200	0
cond	0.004	0.179	0.220	0.911	0
ci	-184.000	252.000	248.540	446.000	0
trans	0.260	3.235	3.404	12.260	0
area	0.800	6.000	5.979	6.000	0
stm.ratio	0.000	0.000	0.067	1.000	0
tair	19.500	28.755	30.487	45.800	0
tleaf	20.610	28.935	30.059	40.600	0
co2.r	369.170	379.400	376.974	402.000	0
co2.s	344.790	362.045	362.968	389.000	0
h2o.r	2.200	19.500	20.535	31.346	0
h2o.s	4.700	23.201	24.497	38.615	0
rh.r	6.910	47.650	46.245	75.270	0
rh.s	17.050	55.650	54.757	81.380	0
par.in	3.000	1409.000	1243.476	2879.000	0
par.out	7.000	1465.000	1270.611	2772.000	0
press	95.700	96.995	96.826	97.900	0

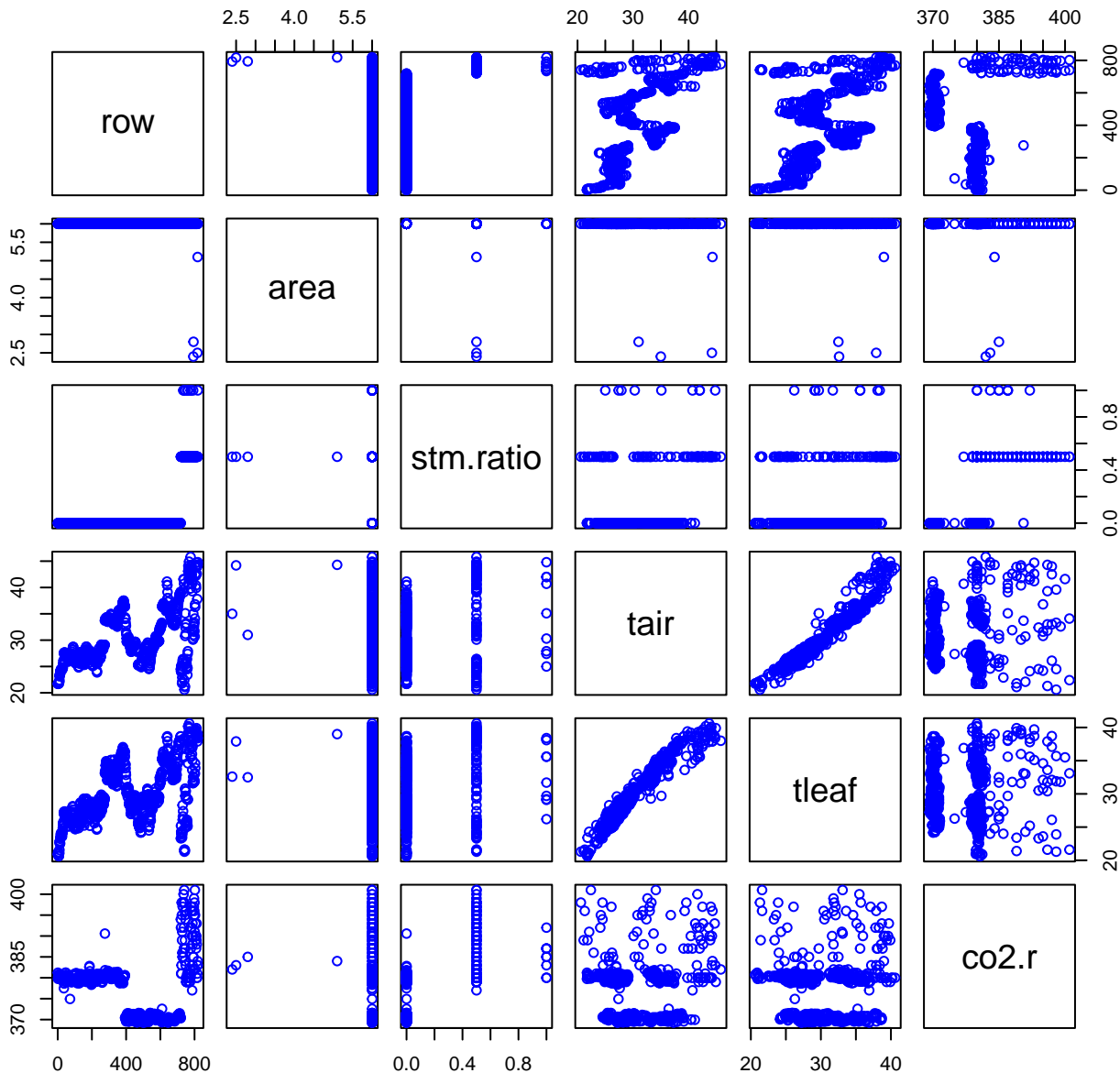
HF224-01 Plot 1



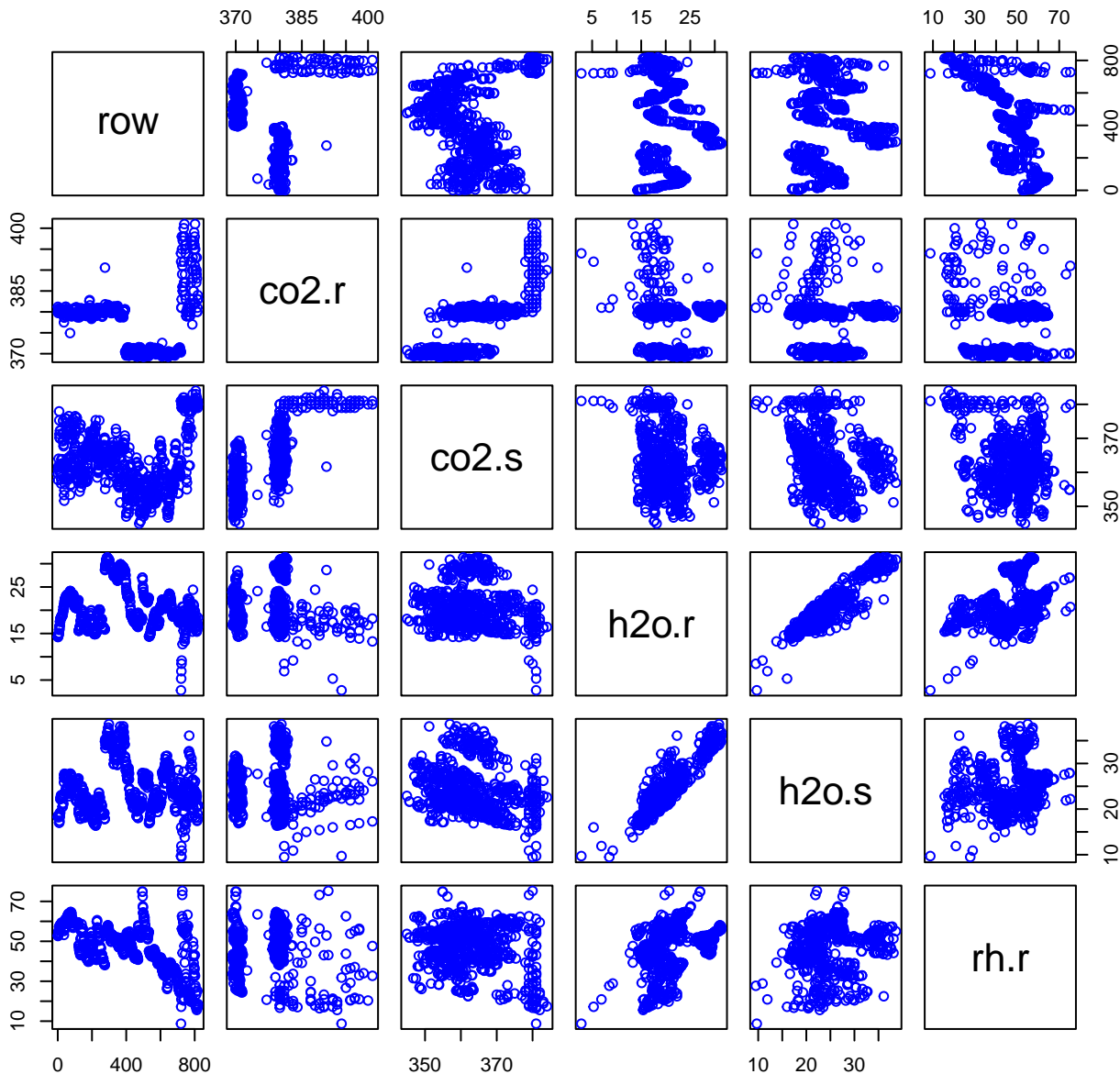
HF224-01 Plot 2



HF224-01 Plot 3



HF224-01 Plot 4



HF224-01 Plot 5

