

Harvard Forest Data Archive HF059-01

Data File:

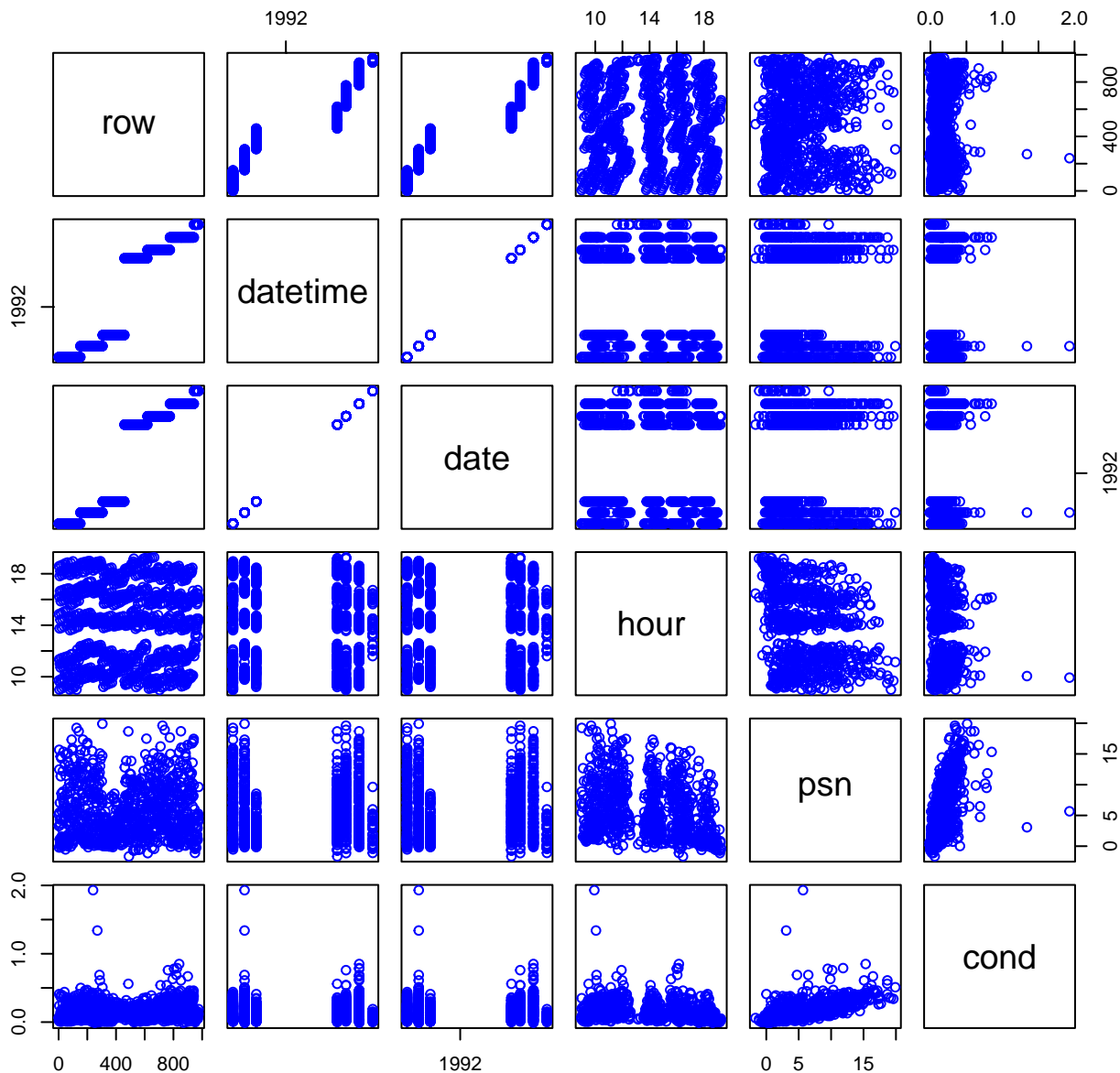
Name = hf059-01-leafgas.csv  
Description = photosynthesis data  
Rows = 1950 Columns = 22  
MD5 checksum = 17ab8231d276b8c8920d0786176df9f7

Variables:

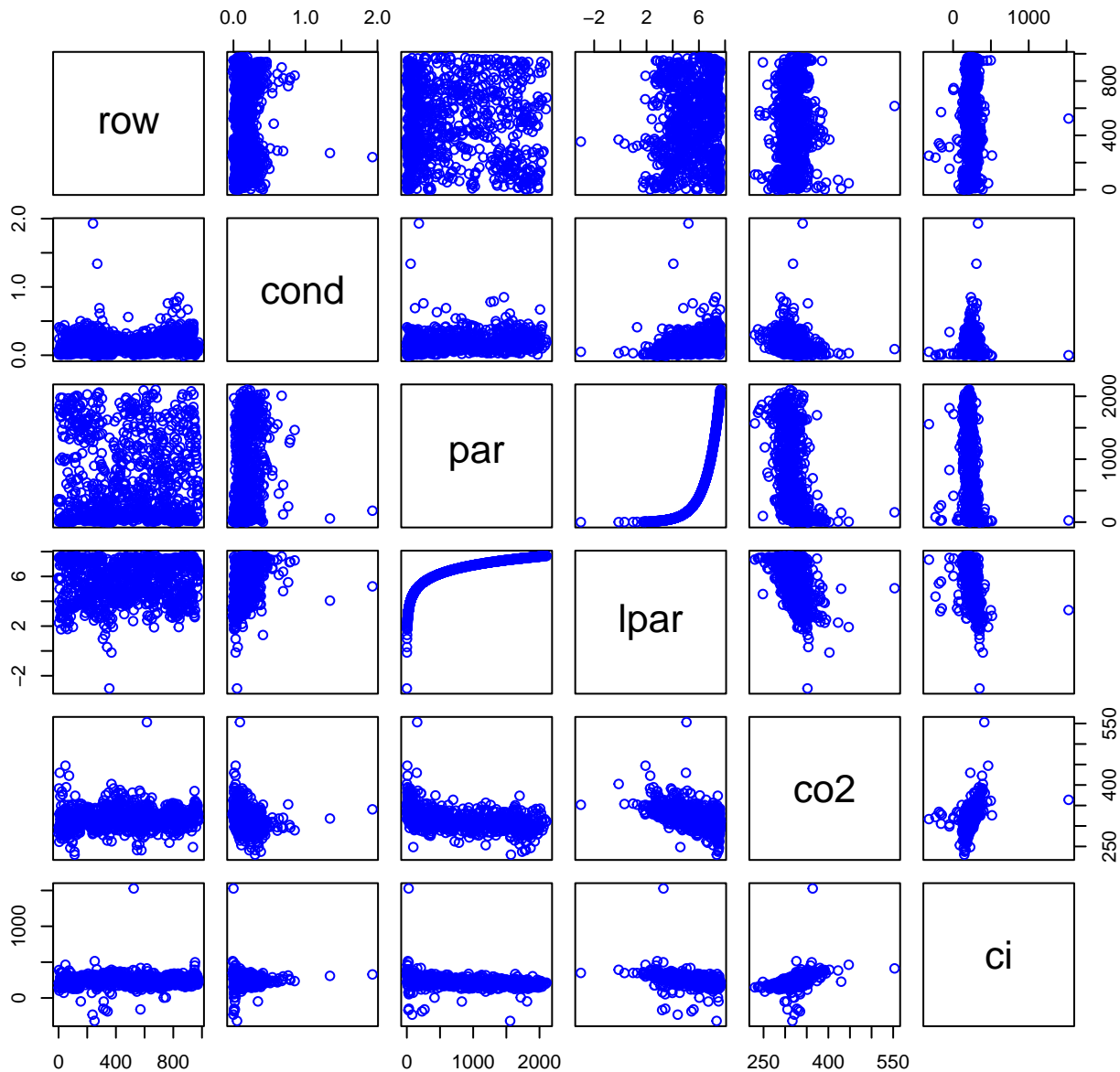
datetime = date and time  
date = date  
hour = hour of day with fraction EST (nominalHour)  
psn = in situ photosynthetic rate of the leaf  
(micromolePerMeterSquaredPerSecond)  
cond = in situ conductance rate of the leaf  
(micromolePerMeterSquaredPerSecond)  
par = photosynthetically active radiation (light levels)  
(micromolePerMeterSquaredPerSecond)  
lpar = ln transformed PAR levels (number)  
co2 = CO2 concentration in the leaf chamber during the measurement  
in units of ppm (dimensionless)  
ci = calculated internal CO2 concentration in units of ppm  
(dimensionless)  
e = calculated transpiration rates  
(micromolePerMeterSquaredPerSecond)  
ci.ca = ratio of Ci to CO2 concentration (dimensionless)  
tleaf = leaf temperature measured by a leaf thermocouple touching  
the underside of the leaf when enclosed in the leaf cuvette (celsius)  
tair = air temperature measured in the cuvette during the  
measurement (celsius)  
rh = relative humidity (%) measured in the cuvette during the  
measurement (dimensionless)  
esleaf = calculated vapor pressure of the leaf (kilopascal)  
eair = calculated vapor pressure of the air in the cuvette during  
the measurement (kilopascal)  
vpd = vapor pressure deficit (kilopascal)

Variable	Min	Median	Mean	Max	NAs
datetime	1991-07-16T08:50		1992-10-03T16:44		0
date	1991-07-16	1992-06-12	1992-02-14	1992-10-03	0
hour	8.830	14.335	14.114	19.300	0
psn	-1.660	4.785	5.927	28.040	0
cond	-1.600	0.130	0.164	1.930	0
par	-0.760	343.680	646.356	2142.000	20
lpar	-3.020	5.840	5.655	7.670	21
co2	218.300	318.250	319.693	705.730	0
ci	-320.010	242.000	243.494	1527.870	1
e	-0.000	0.003	0.146	3.503	1236
ci.ca	-1.010	0.770	0.757	4.200	1
tleaf	7.720	26.420	25.275	41.910	0
tair	8.040	26.460	24.931	38.110	0
rh	12.310	43.210	42.777	81.440	0
esleaf	1.060	3.460	3.427	8.210	0
eair	1.080	3.470	3.336	6.700	0
vpd	0.430	1.940	2.045	6.630	0

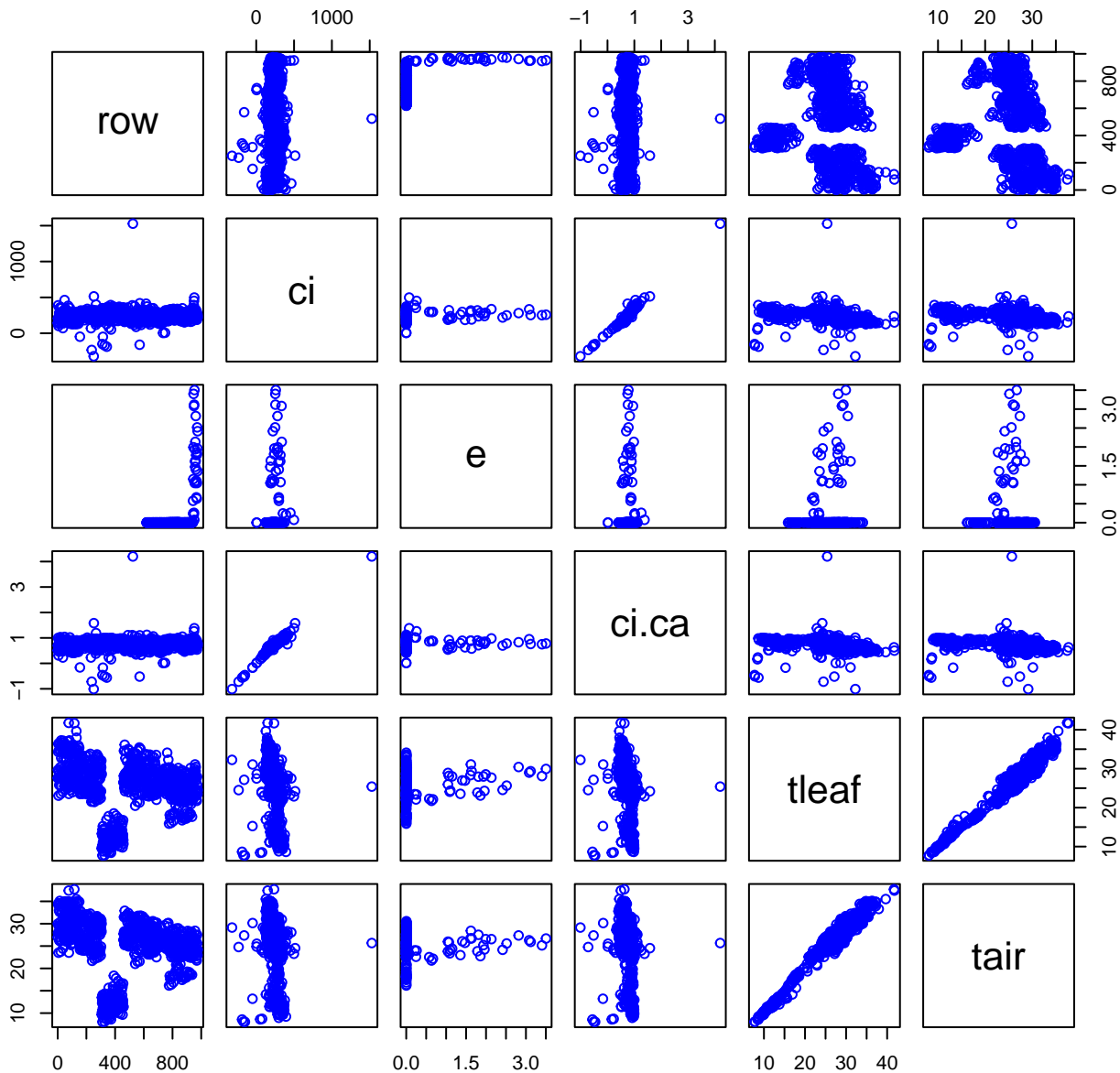
# HF059-01 Plot 1



# HF059-01 Plot 2



# HF059-01 Plot 3



# HF059-01 Plot 4

