

Harvard Forest Data Archive HF004-02

Data File:

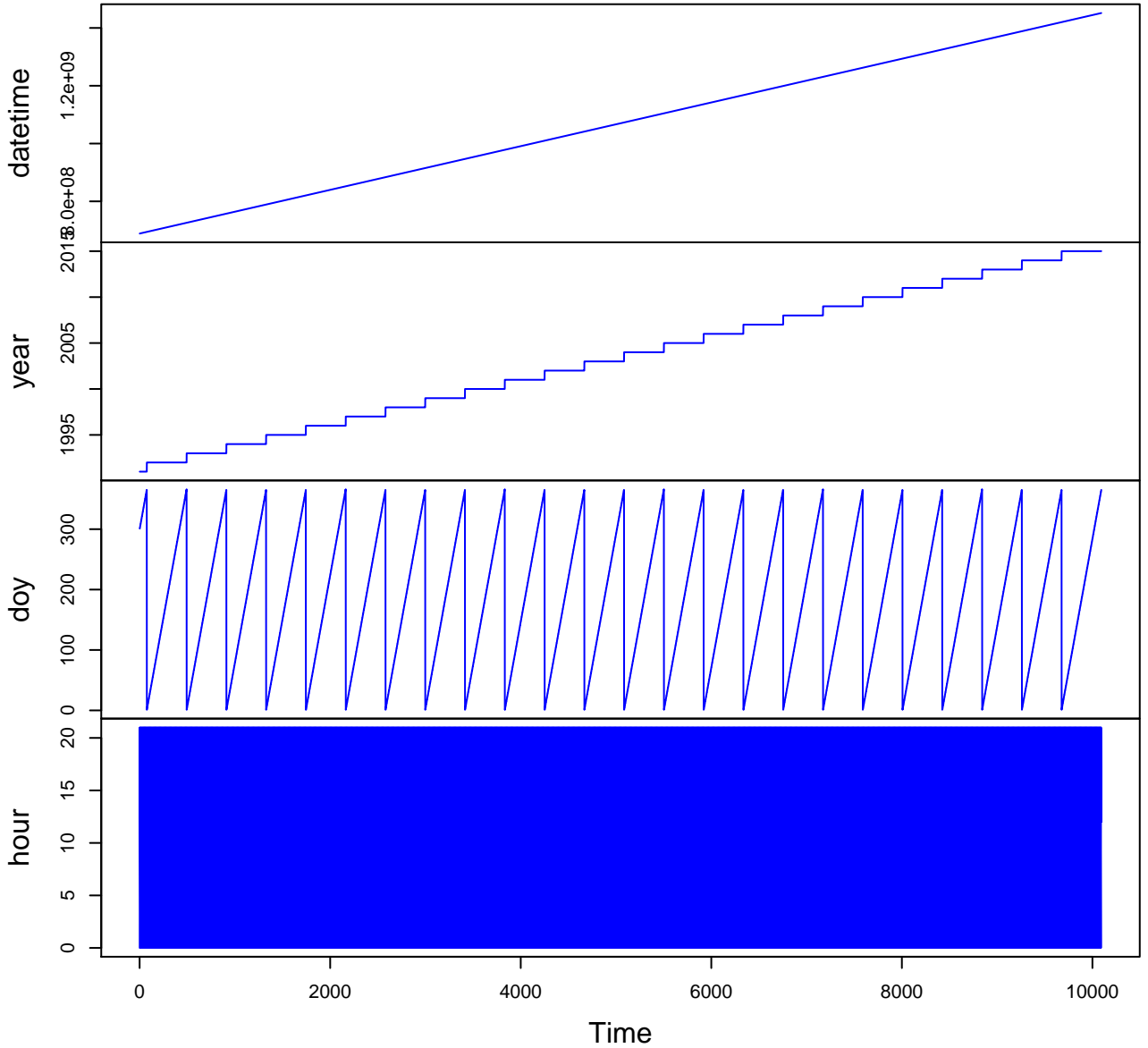
Name = hf004-02-filled.csv
Description = filled data
Rows = 211944 Columns = 36
MD5 checksum = 3ded11bd3f30e66b68c8e1f1fe7f22f0

Variables:

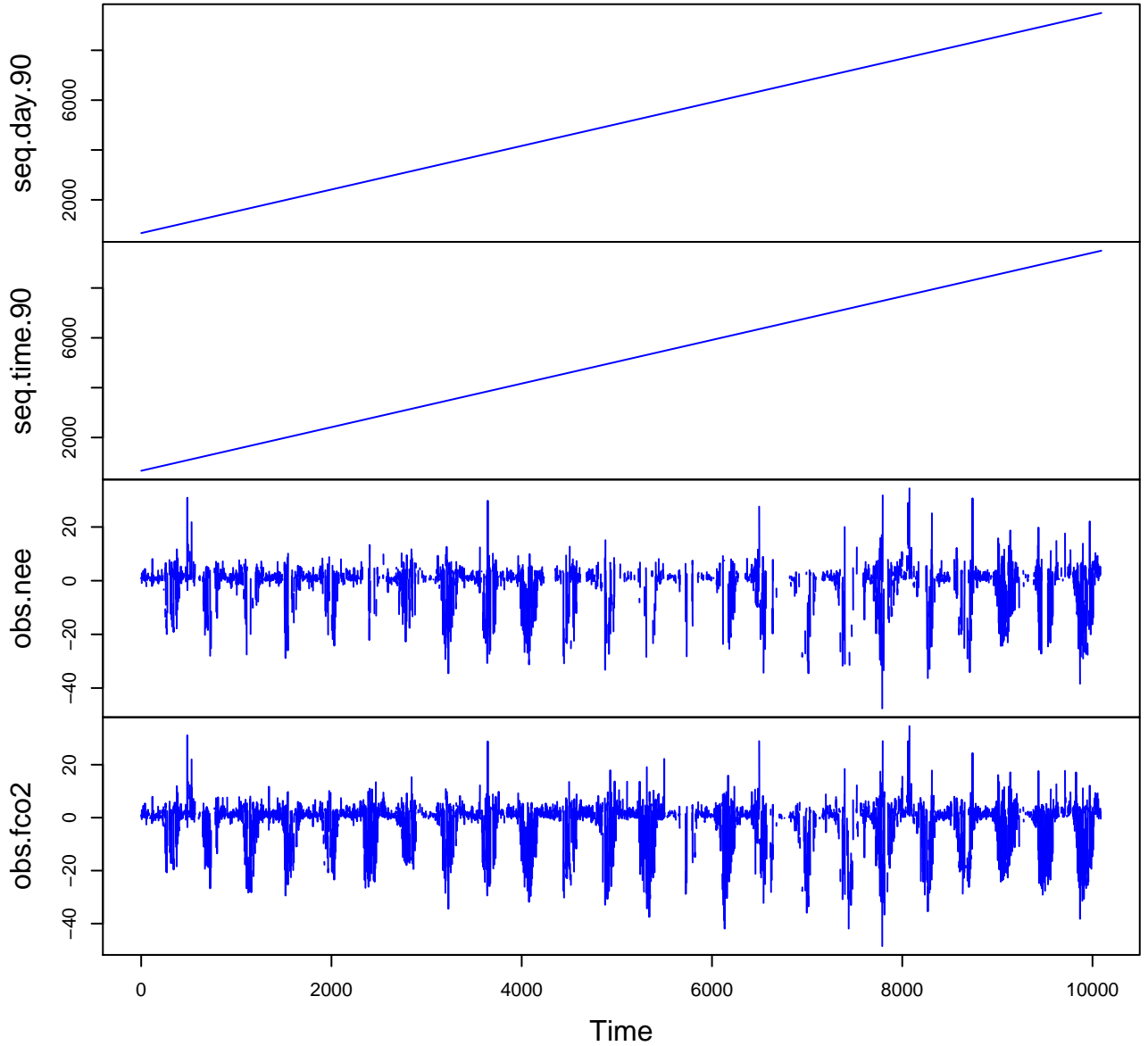
datetime = date and time
year = year
doy = day of year; January 1 = 1 (nominalDay)
hour = hour of day in EST; (EST=GMT-5) (nominalHour)
seq.day.90 = sequential day starting in 1990, 1 = Jan. 1 1990
(nominalDay)
seq.time.90 = sequential time in fractional days; 1.5 is 12 noon
January 1 1990 (nominalDay)
obs.nee = observed NEE (FCO2 + storage) in micromoles CO2/m2/s
(micromolePerMeterSquaredPerSecond)
obs.fco2 = observed FCO2 (CO2 eddy covariance flux) in
micromoleCO2/m2/s (micromolePerMeterSquaredPerSecond)
fco2.corr = observed FCO2 + storage correction
(micromolePerMeterSquaredPerSecond)
ustar = observed u* (u* = $\sqrt{-1 * \langle u'w' \rangle}$) in cm/s
(centimetersPerSecond)
nee = net ecosystem exchange filled by model in micromole CO2 /m2/s
(micromolePerMeterSquaredPerSecond)
resp.e = ecosystem respiration filled and derived (see below)
e-6mol/m2/s (micromolePerMeterSquaredPerSecond)
gee = gross ecosystem exchange derived and filled
(micromolePerMeterSquaredPerSecond)
obs.ta.27m = observed air temperature at 27 m (top of tower)
(celsius)
ta.27m.filled = filled air temperature with missing points replaced
by available data (celsius)
ta.2.5m = observed air temperature at 2.5m above ground (celsius)
ta.2.5m.filled = filled air temperature at 2.5 m above ground
(celsius)
par.28m = observed photosynthetically active radiation (PPFD) at 28m
(above the canopy) (micromolePerMeterSquaredPerSecond)
par.28m.filled = filled photosynthetically active radiation (PPFD)
(micromolePerMeterSquaredPerSecond)
par.tot.ue.m2.s = total PAR at 29 meters
(microeinsteinPerMeterSquaredPerSecond)
par.dfs.ue.m2.s = diffuse component of PAR at 29 meters
(microeinsteinPerMeterSquaredPerSecond)

Variable	Min	Median	Mean	Max	NAs
datetime	1991-10-28T00:00		2015-12-31T23:00		0
year	1991.000	2003.000	2003.407	2015.000	0
doy	1.000	184.000	184.228	366.000	0
hour	0.000	11.500	11.500	23.000	0
seq.day.90	666.000	5081.000	5081.000	9496.000	0
seq.time.90	666.000	5081.479	5081.479	9496.958	0
obs.nee	-49.300	1.000	-1.147	105.300	125748
obs.fco2	-49.100	0.900	-1.448	106.900	92253
fco2.corr	-49.580	0.960	-1.486	107.700	92253
ustar	0.200	46.800	51.515	220.900	52772
nee	-47.590	1.200	-0.762	107.700	0
resp.e	-11.800	2.690	3.240	107.700	0
gee	-60.220	0.000	-4.002	0.000	0
obs.ta.27m	-25.500	8.500	8.041	36.500	73847
ta.27m.fill	-25.500	8.500	8.030	35.000	0
ta.2.5m	-26.400	7.200	6.887	34.100	81424
ta.2.5m.fill	-26.400	7.500	7.111	32.900	23447
par.28m	-19.700	20.000	299.970	2139.600	41187
par.28m.fill	-10.100	16.000	297.045	2139.600	0
par.tot.ue.m	0.000	22.000	321.986	2058.700	182029
par.dfs.ue.m	0.000	19.800	141.152	1119.800	182029

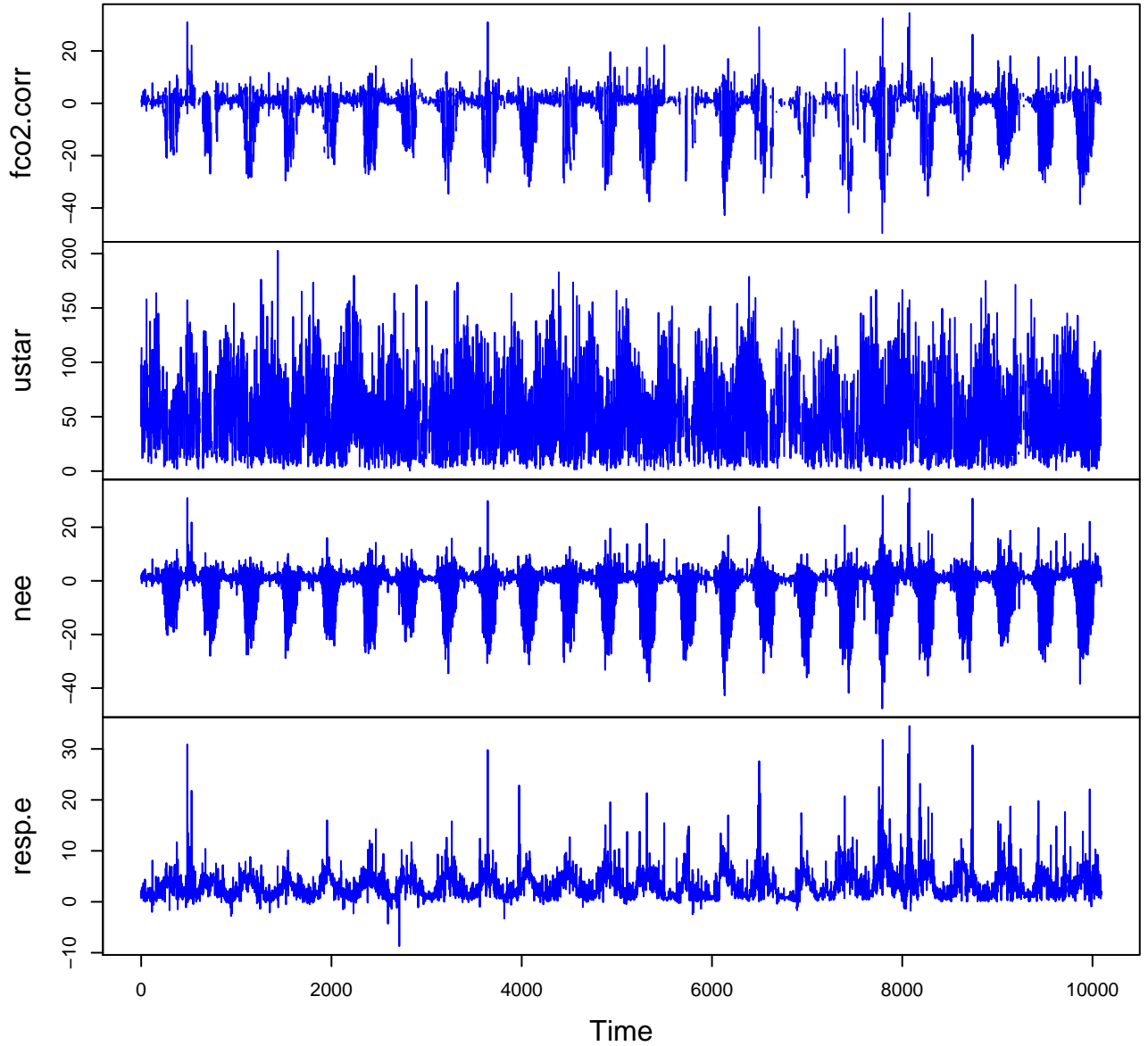
HF004-02 Plot 1



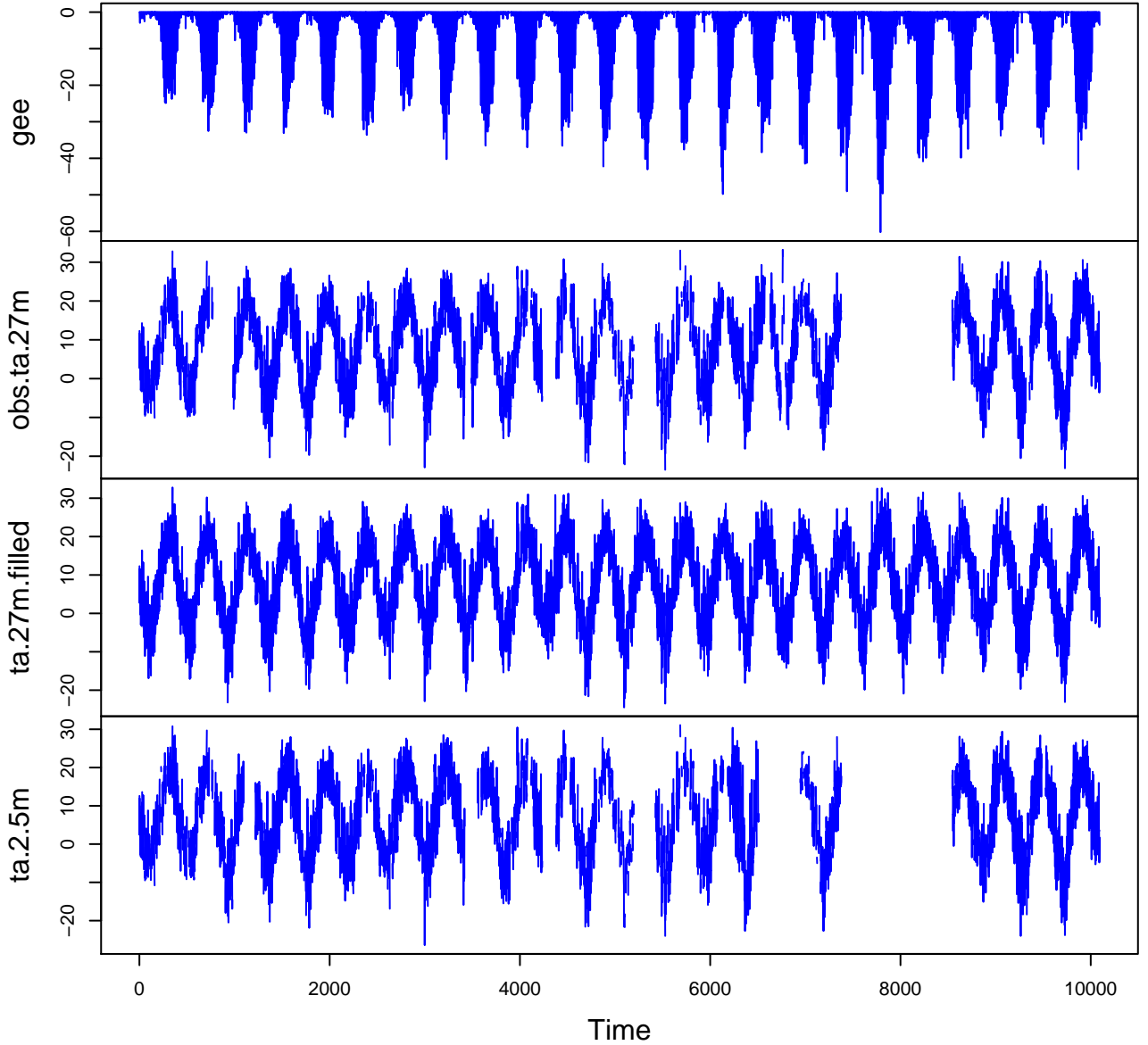
HF004-02 Plot 2



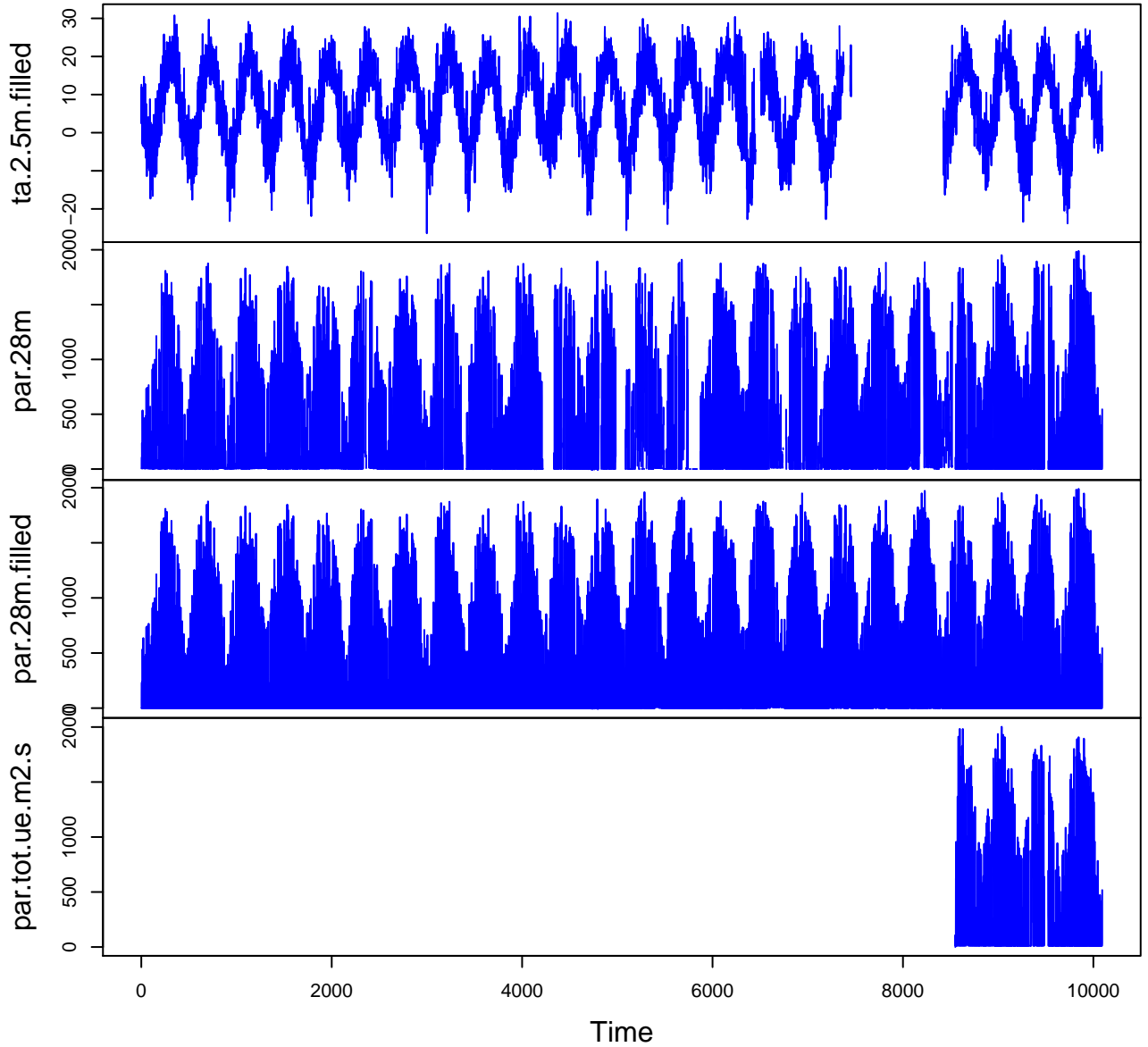
HF004-02 Plot 3



HF004-02 Plot 4



HF004-02 Plot 5



HF004-02 Plot 6

