

Harvard Forest Data Archive HF004-02

Data File:

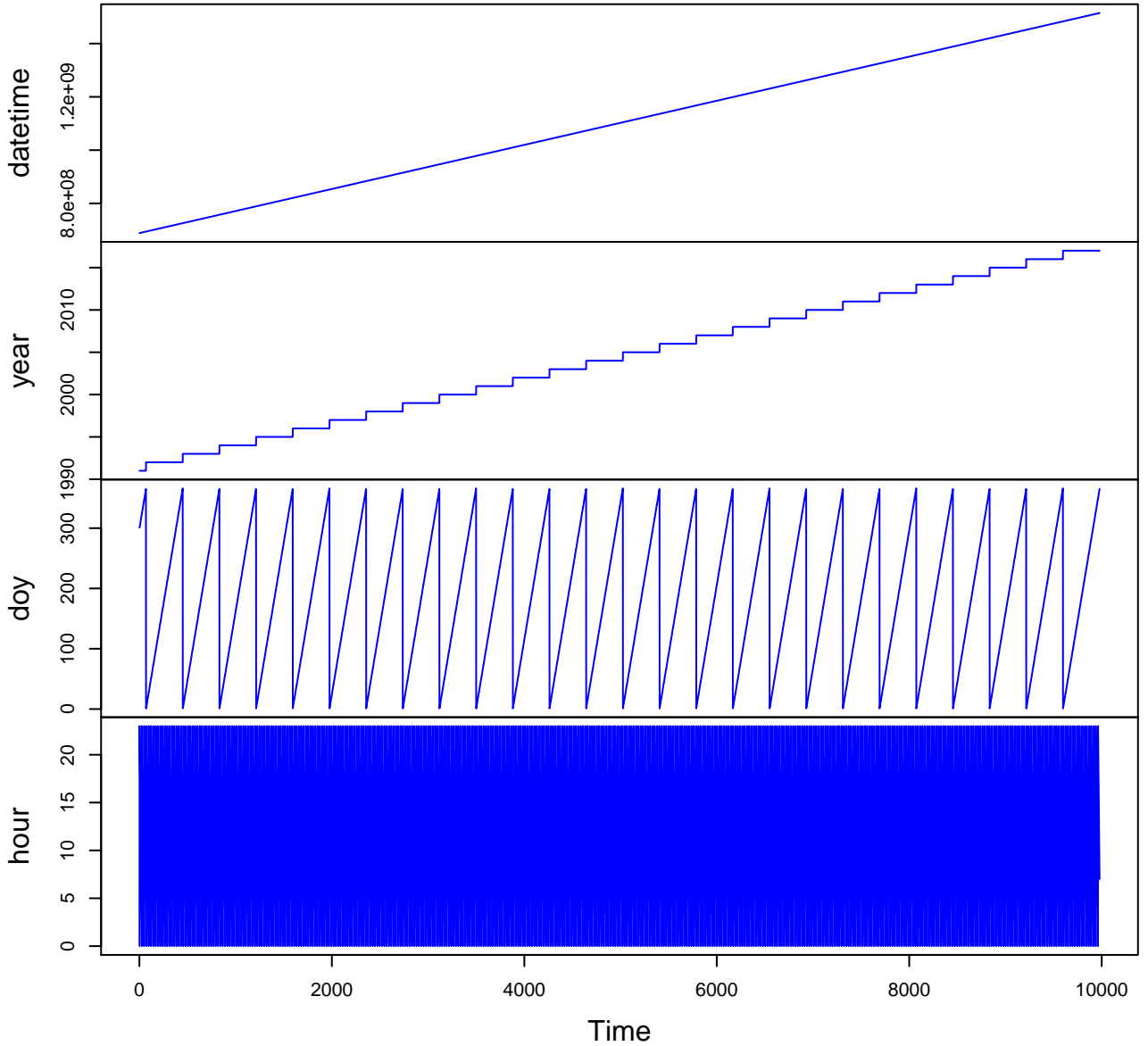
Name = hf004-02-filled.csv  
Description = filled data  
Rows = 229488 Columns = 36  
MD5 checksum = 6eb27b3f060bb0b6f22e9b4f16fb9dbc

Variables:

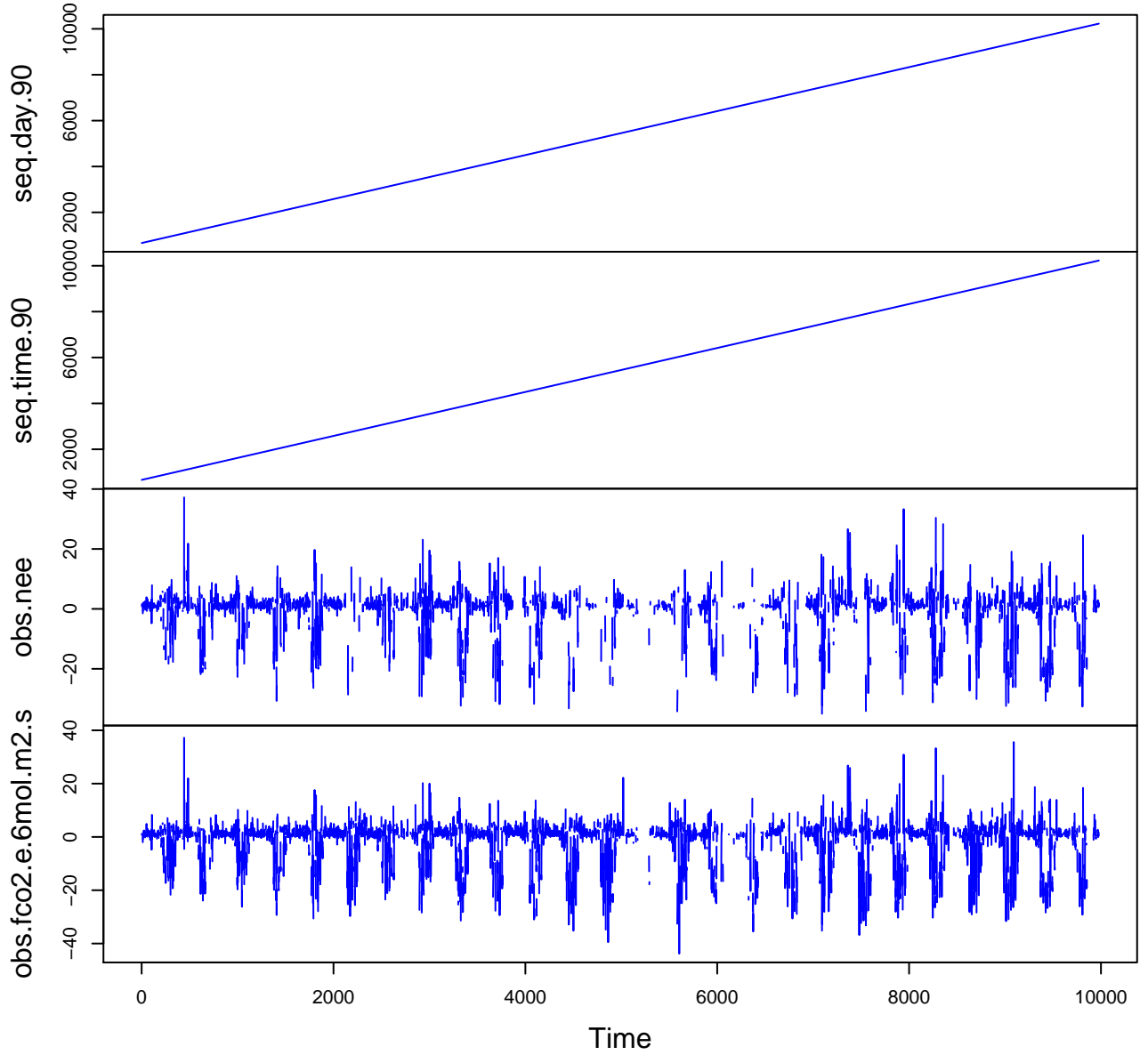
datetime = date and time  
year = year  
doy = day of year; January 1 = 1 (nominalDay)  
hour = hour of day in EST; (EST=GMT-5) (nominalHour)  
seq.day.90 = sequential day starting in 1990, 1 = Jan. 1 1990  
(nominalDay)  
seq.time.90 = sequential time in fractional days; 1.5 is 12 noon  
January 1 1990 (nominalDay)  
obs.nee = observed NEE (FCO2 + storage) in micromoles CO2/m2/s  
(micromolePerMeterSquaredPerSecond)  
obs.fco2.e.6mol.m2.s = observed FCO2 (CO2 eddy covariance flux) in  
micromoleCO2/m2/s (micromolePerMeterSquaredPerSecond)  
fco2.corr.e.6mol.m2.s = observed FCO2 + storage correction  
(micromolePerMeterSquaredPerSecond)  
ustar = observed u\* (u\* =  $\sqrt{-1 * <u'w'>}$ ) 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.c = 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.ms.2 = total PAR at 29 meters  
(microeinsteinPerMeterSquaredPerSecond)  
par.dfs.ue.ms.2 = diffuse component of PAR at 29 meters  
(microeinsteinPerMeterSquaredPerSecond)

Variable	Min	Median	Mean	Max	NAs
datetime	1991-10-28T00:00		2017-12-31T23:00		0
year	1991.000	2004.000	2004.408	2017.000	0
doy	1.000	184.000	184.154	366.000	0
hour	0.000	11.500	11.500	23.000	0
seq.day.90	666.000	5446.500	5446.500	10227.000	0
seq.time.90	666.000	5446.979	5446.979	10227.958	0
obs.nee	-49.300	1.000	-1.224	105.300	135464
obs.fco2.e.6	-49.100	0.900	-1.496	106.900	100536
fco2.corr.e.	-49.580	0.950	-1.536	107.700	100536
ustar	0.100	46.800	51.527	220.900	57054
nee	-47.590	1.200	-0.764	107.700	0
resp.e	-11.800	2.660	3.230	107.700	0
gee	-60.220	0.000	-3.994	0.000	0
obs.ta.27m	-25.900	8.600	8.178	36.500	74206
ta.27m.fill	-25.900	8.600	8.132	35.000	0
ta.2.5m	-27.400	7.300	7.003	34.100	81795
ta.2.5m.fill	-27.400	7.600	7.185	32.900	23447
par.28m	-19.700	19.000	301.846	2266.200	41235
par.28m.fill	-10.100	16.000	298.886	2266.200	0
par.tot.ue.m	-1.900	1.900	179.756	1760.300	182127
par.dfs.ue.m	0.000	19.300	139.766	1119.800	182127

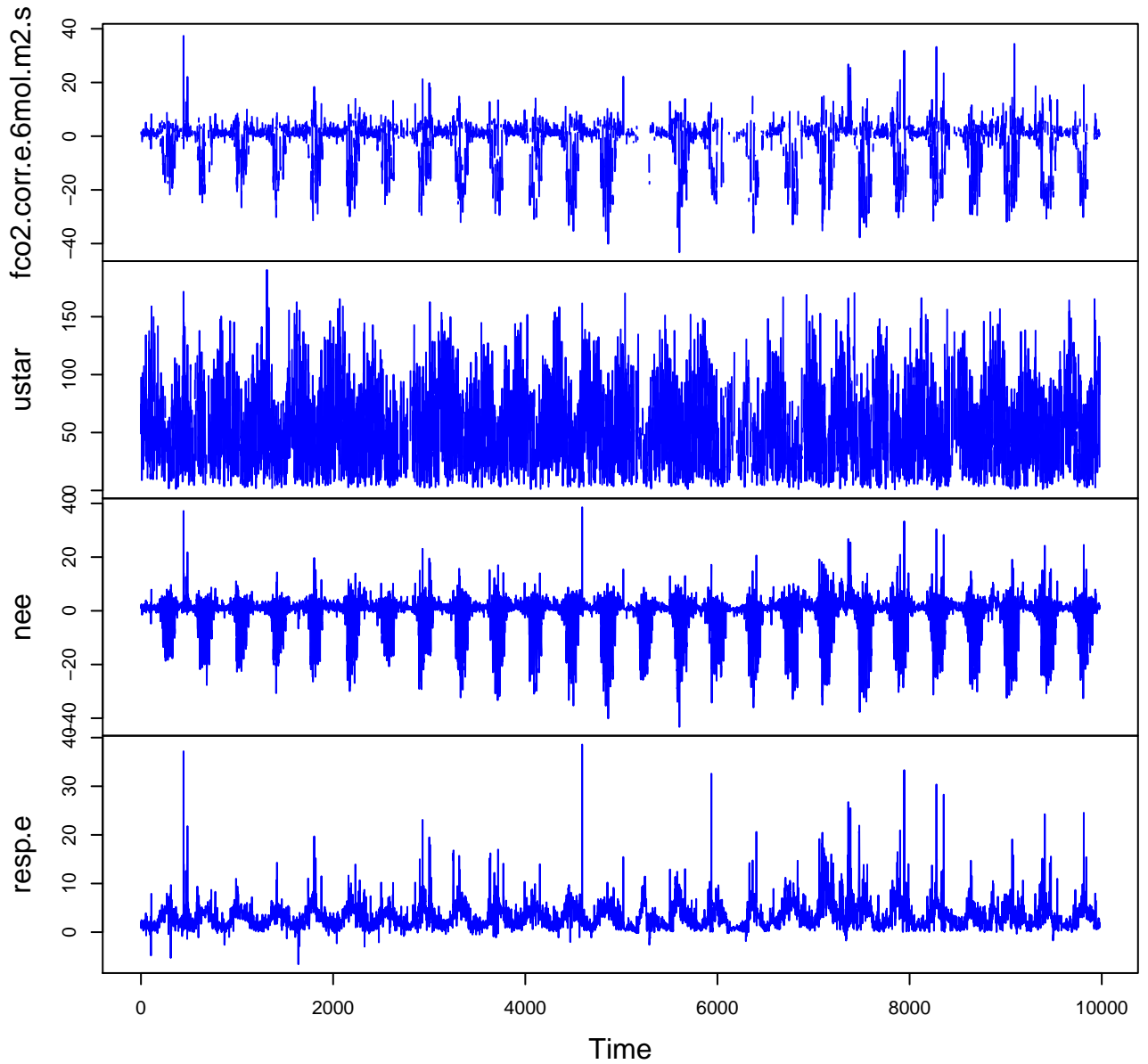
# HF004-02 Plot 1



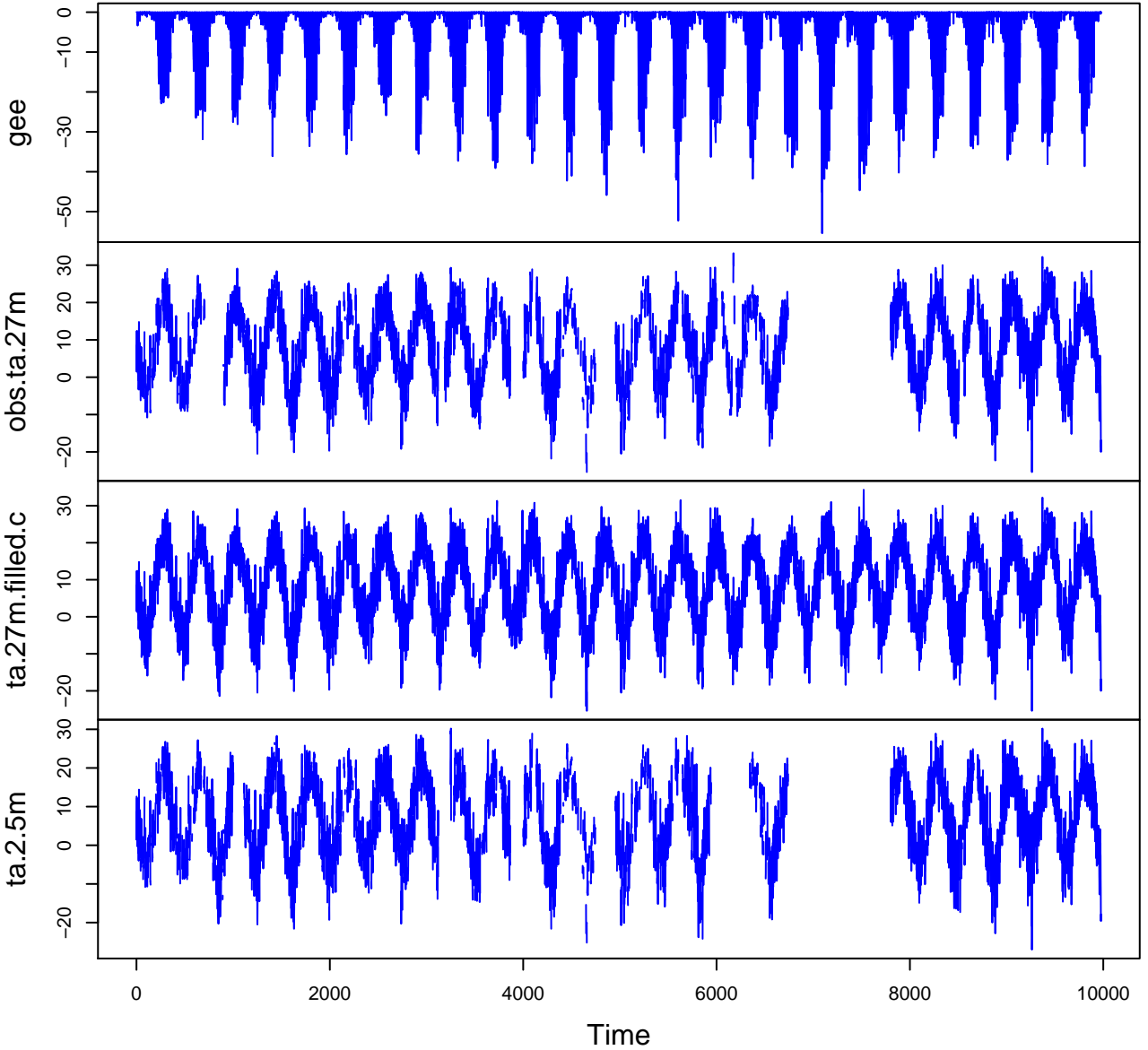
# HF004-02 Plot 2



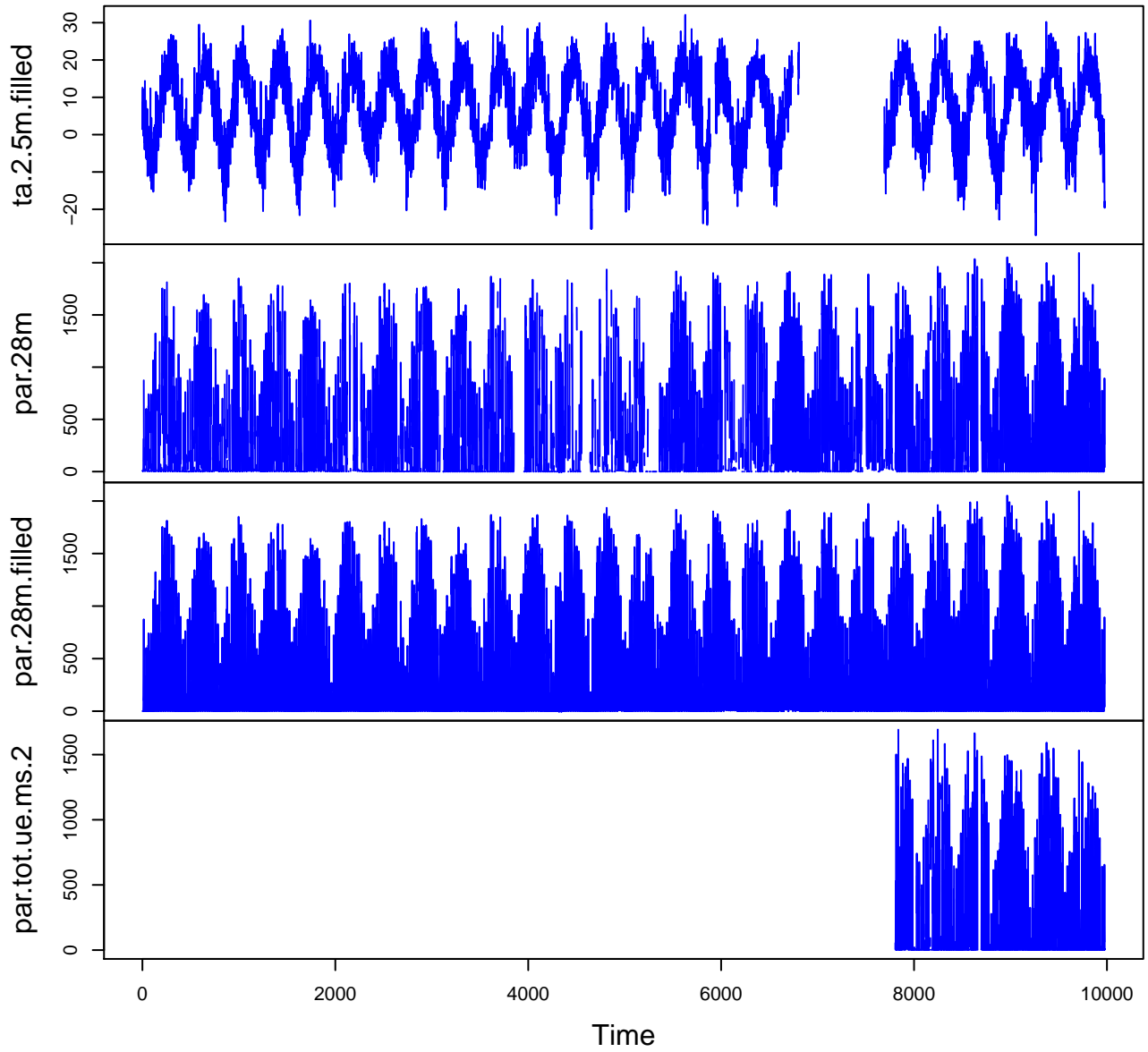
# HF004-02 Plot 3



# HF004-02 Plot 4



# HF004-02 Plot 5



# HF004-02 Plot 6

