

Harvard Forest Data Archive HF113-03

Data File:

Name = hf113-03-hf-outside.csv  
Description = HF outside data  
Rows = 56568 Columns = 65  
MD5 checksum = 3cdb8ebbea033420963ccb4f969ba173

Variables:

datetime = date and time  
year = year  
decdate = day of year and decimal hour (nominalDay)  
doy = day of year (nominalDay)  
week = week of year (nominalWeek)  
hour = hour (nominalHour)  
ptemp.avg = average panel temperature (celsius)  
ptemp.min = minimum panel temperature (celsius)  
ptemp.max = maximum panel temperature (celsius)  
oat1.avg = average outside air temperature - plot 1 (celsius)  
ostol.avg = average outside organic soil temperature - plot 1  
(celsius)  
ostil.avg = average outside inorganic soil temperature - plot 1  
(celsius)  
oc1q.avg = average outside quantum sensor - plot 1  
(micromolePerMeterSquaredPerSecond)  
oc1rh.avg = average outside relative humidity - plot 1  
(dimensionless)  
oc1sm.avg = average outside soil moisture - plot 1 (dimensionless)  
oat1.min = minimum outside air temperature - plot 1 (celsius)  
ostol.min = minimum outside organic soil temperature - plot 1  
(celsius)  
ostil.min = minimum outside inorganic soil temperature - plot 1  
(celsius)  
oc1q.min = minimum outside quantum sensor - plot 1  
(micromolePerMeterSquaredPerSecond)  
oc1rh.min = minimum outside relative humidity - plot 1  
(dimensionless)  
oc1sm.min = minimum outside soil moisture - plot 1 (dimensionless)  
oat1.max = maximum outside air temperature - plot 1 (celsius)  
ostol.max = maximum outside organic soil temperature - plot 1  
(celsius)  
ostil.max = maximum outside inorganic soil temperature - plot 1  
(celsius)  
oc1q.max = maximum outside quantum sensor - plot 1  
(micromolePerMeterSquaredPerSecond)  
oc1rh.max = maximum outside relative humidity - plot 1  
(dimensionless)  
oc1sm.max = maximum outside soil moisture - plot 1 (dimensionless)  
oat2.avg = average outside air temperature - plot 2 (celsius)

osto2.avg = average outside organic soil temperature - plot 2  
(celsius)  
osti2.avg = average outside inorganic soil temperature - plot 2  
(celsius)  
oc2q.avg = average outside quantum sensor - plot 2  
(micromolePerMeterSquaredPerSecond)  
oc2rh.avg = average outside relative humidity - plot 2  
(dimensionless)  
oc2sm.avg = average outside soil moisture - plot 2 (dimensionless)  
oat2.min = minimum outside air temperature - plot 2 (celsius)  
osto2.min = minimum outside organic soil temperature - plot 2  
(celsius)  
osti2.min = minimum outside inorganic soil temperature - plot 2  
(celsius)  
oc2q.min = minimum outside quantum sensor - plot 2  
(micromolePerMeterSquaredPerSecond)  
oc2rh.min = minimum outside relative humidity - plot 2  
(dimensionless)  
oc2sm.min = minimum outside soil moisture - plot 2 (dimensionless)  
oat2.max = maximum outside air temperature - plot 2 (celsius)  
osto2.max = maximum outside organic soil temperature - plot 2  
(celsius)  
osti2.max = maximum outside inorganic soil temperature - plot 2  
(celsius)  
oc2q.max = maximum outside quantum sensor - plot 2  
(micromolePerMeterSquaredPerSecond)  
oc2rh.max = maximum outside relative humidity - plot 2  
(dimensionless)  
oc2sm.max = maximum outside soil moisture - plot 2 (dimensionless)  
oat3.avg = average outside air temperature - plot 3 (celsius)  
osto3.avg = average outside organic soil temperature - plot 3  
(celsius)  
osti3.avg = average outside inorganic soil temperature - plot 3  
(celsius)  
oc3q.avg = average outside quantum sensor - plot 3  
(micromolePerMeterSquaredPerSecond)  
oc3rh.avg = average outside relative humidity - plot 3  
(dimensionless)  
oc3sm.avg = average outside soil moisture - plot 3 (dimensionless)  
oat3.min = minimum outside air temperature - plot 3 (celsius)  
osto3.min = minimum outside organic soil temperature - plot 3  
(celsius)  
osti3.min = minimum outside inorganic soil temperature - plot 3  
(celsius)  
oc3q.min = minimum outside quantum sensor - plot 3  
(micromolePerMeterSquaredPerSecond)  
oc3rh.min = minimum outside relative humidity - plot 3  
(dimensionless)  
oc3sm.min = minimum outside soil moisture - plot 3 (dimensionless)  
oat3.max = maximum outside air temperature - plot 3 (celsius)  
osto3.max = maximum outside organic soil temperature - plot 3  
(celsius)

osti3.max = maximum outside inorganic soil temperature - plot 3  
(celsius)

oc3q.max = maximum outside quantum sensor - plot 3  
(micromolePerMeterSquaredPerSecond)

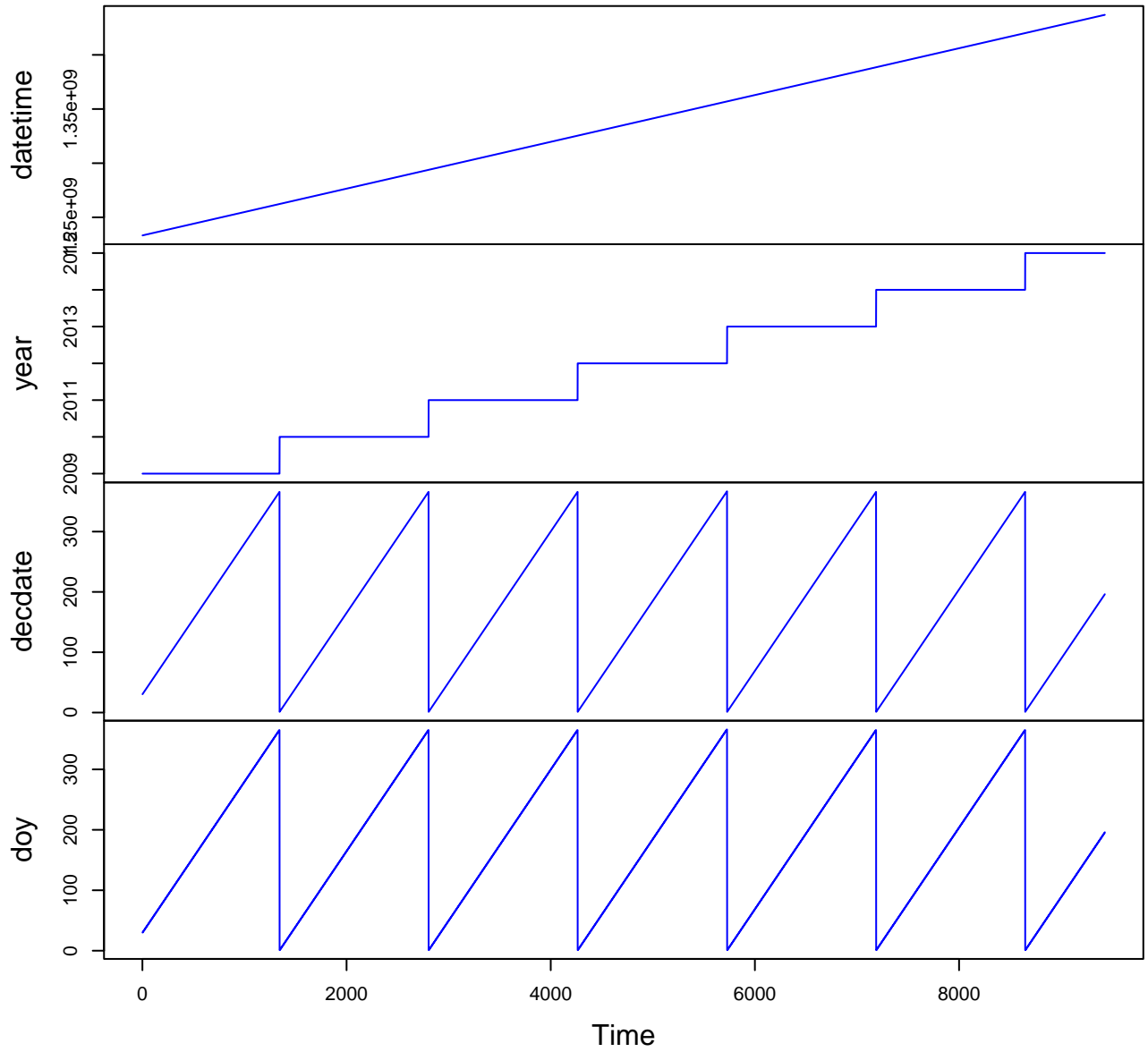
oc3rh.max = maximum outside relative humidity - plot 3  
(dimensionless)

oc3sm.max = maximum outside soil moisture - plot 3 (dimensionless)

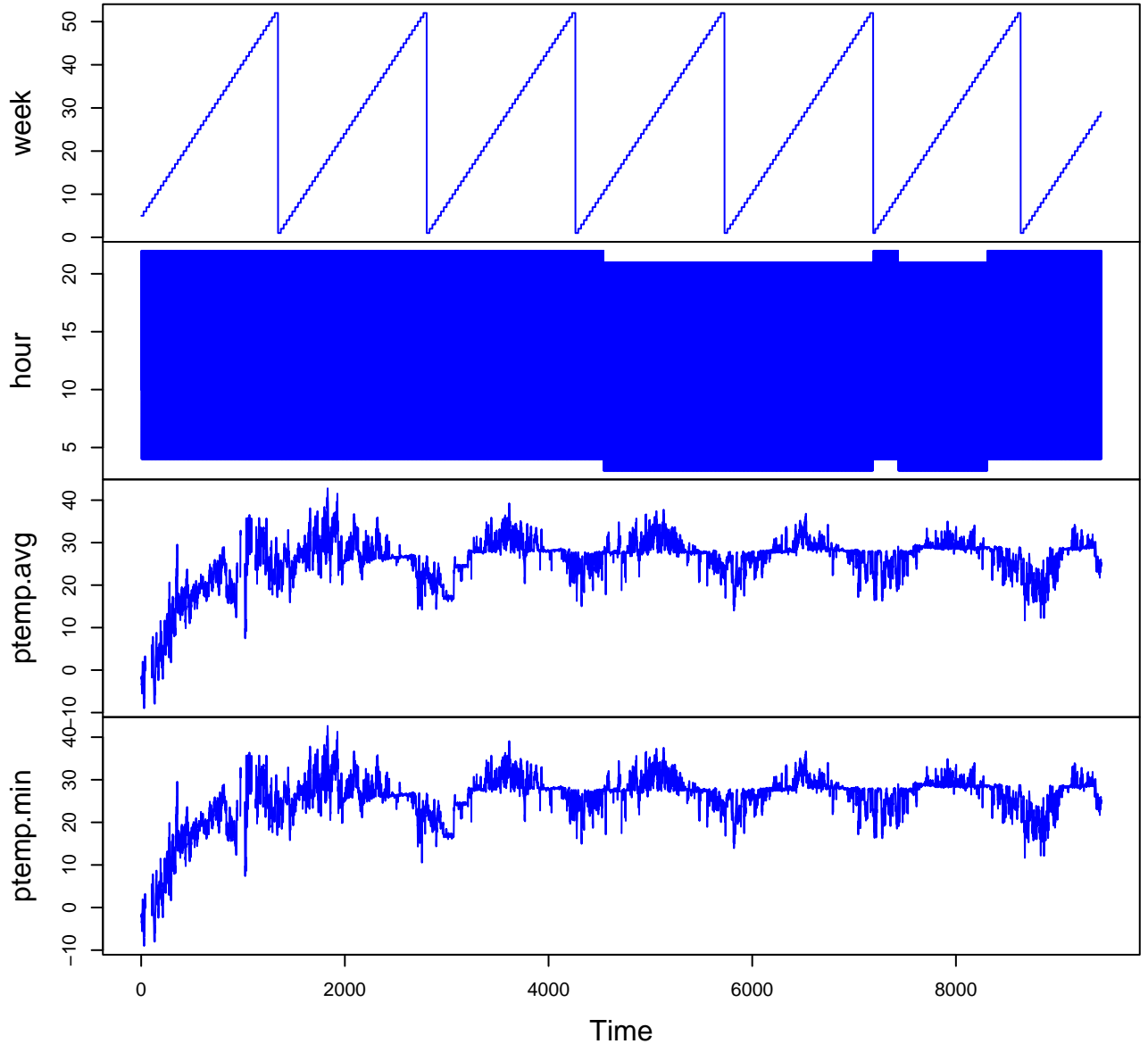
Variable	Min	Median	Mean	Max	NAs
datetime	2009-01-30T10:00			2015-07-15T09:00	2
year	2009.000	2012.000	2011.821	2015.000	2
decdate	1.000	173.542	178.619	366.958	2
doy	1.000	173.000	178.140	366.000	2
week	1.000	25.000	25.890	52.000	2
hour	0.000	12.000	11.500	23.000	2
ptemp.avg	-9.010	27.640	25.979	43.230	1292
ptemp.min	-9.030	27.500	25.814	43.200	1292
ptemp.max	-9.010	27.820	26.140	43.250	1292
oat1.avg	-24.370	9.085	8.473	34.090	1474
ostol.avg	-3.849	9.500	9.233	38.080	2140
ostil.avg	-0.900	8.690	8.588	20.480	1475
oc1q.avg	-19.930	0.842	44.788	1996.000	6737
oc1rh.avg	10.470	81.600	77.261	100.000	8470
oc1sm.avg	0.000	0.139	0.133	0.325	1453
oat1.min	-96.900	8.510	7.952	33.570	1468
ostol.min	-3.862	9.360	9.123	37.460	2138
ostil.min	-0.924	8.630	8.541	20.240	1473
oc1q.min	-1106.000	-0.842	10.728	1402.000	6737
oc1rh.min	0.000	78.610	75.244	102.900	8470
oc1sm.min	-0.041	0.137	0.123	6.004	1418
oat1.max	-96.900	9.700	9.034	35.510	1468
ostol.max	-3.830	9.650	9.371	38.720	2138
ostil.max	-0.854	8.760	8.634	20.910	1473
oc1q.max	-13.480	5.056	107.023	2892.000	6738
oc1rh.max	12.270	84.400	79.676	106.600	8471
oc1sm.max	0.000	0.146	0.145	6.004	1418
oat2.avg	-23.640	8.960	8.325	34.710	1463
osto2.avg	-2.687	9.200	9.055	24.170	1768
osti2.avg	-0.561	9.020	9.077	36.450	2210
oc2q.avg	-19.980	0.631	36.548	1982.000	6226
oc2rh.avg	10.590	87.700	81.998	100.000	13939
oc2sm.avg	0.000	0.149	0.145	0.341	1563
oat2.min	-23.970	8.440	7.846	33.810	1460
osto2.min	-2.709	9.090	8.979	23.990	1768
osti2.min	-111.600	8.950	8.993	35.750	2203
oc2q.min	-1087.000	-1.685	5.065	1645.000	6226
oc2rh.min	0.000	85.300	80.513	104.000	13939
oc2sm.min	0.000	0.148	0.145	2.974	1549
oat2.max	-23.290	9.530	8.831	35.850	1460
osto2.max	-2.648	9.310	9.131	24.310	1768
osti2.max	-111.600	9.100	9.180	37.470	2203
oc2q.max	-10.950	5.056	86.955	2964.000	6226
oc2rh.max	10.640	90.300	84.939	104.000	13939
oc2sm.max	0.000	0.149	0.145	2.974	1549
oat3.avg	-26.300	7.831	7.513	33.910	2449
osto3.avg	-5.767	9.100	8.909	23.560	1422
osti3.avg	-0.786	8.670	8.794	20.330	2633
oc3q.avg	-19.910	1.124	30.603	1996.000	6676

Variable	Min	Median	Mean	Max	NAs
oc3rh.avg	12.370	87.900	81.691	100.000	10323
oc3sm.avg	0.001	0.170	0.174	0.538	1373
oat3.min	-26.790	7.329	7.065	32.370	2446
osto3.min	-7.924	8.930	8.800	23.470	1421
osti3.min	-7.553	8.600	8.748	20.180	2632
oc3q.min	-698.000	-1.684	3.503	1659.000	6676
oc3rh.min	0.000	85.500	80.325	104.800	10323
oc3sm.min	0.000	0.170	0.174	0.538	1361
oat3.max	-24.850	8.350	7.977	34.910	2446
osto3.max	-5.190	9.260	9.016	23.680	1421
osti3.max	-0.782	8.740	8.839	20.730	2632
oc3q.max	0.000	6.739	72.357	2951.000	6676
oc3rh.max	12.500	90.300	84.821	104.900	10323
oc3sm.max	0.000	0.170	0.175	0.539	1361

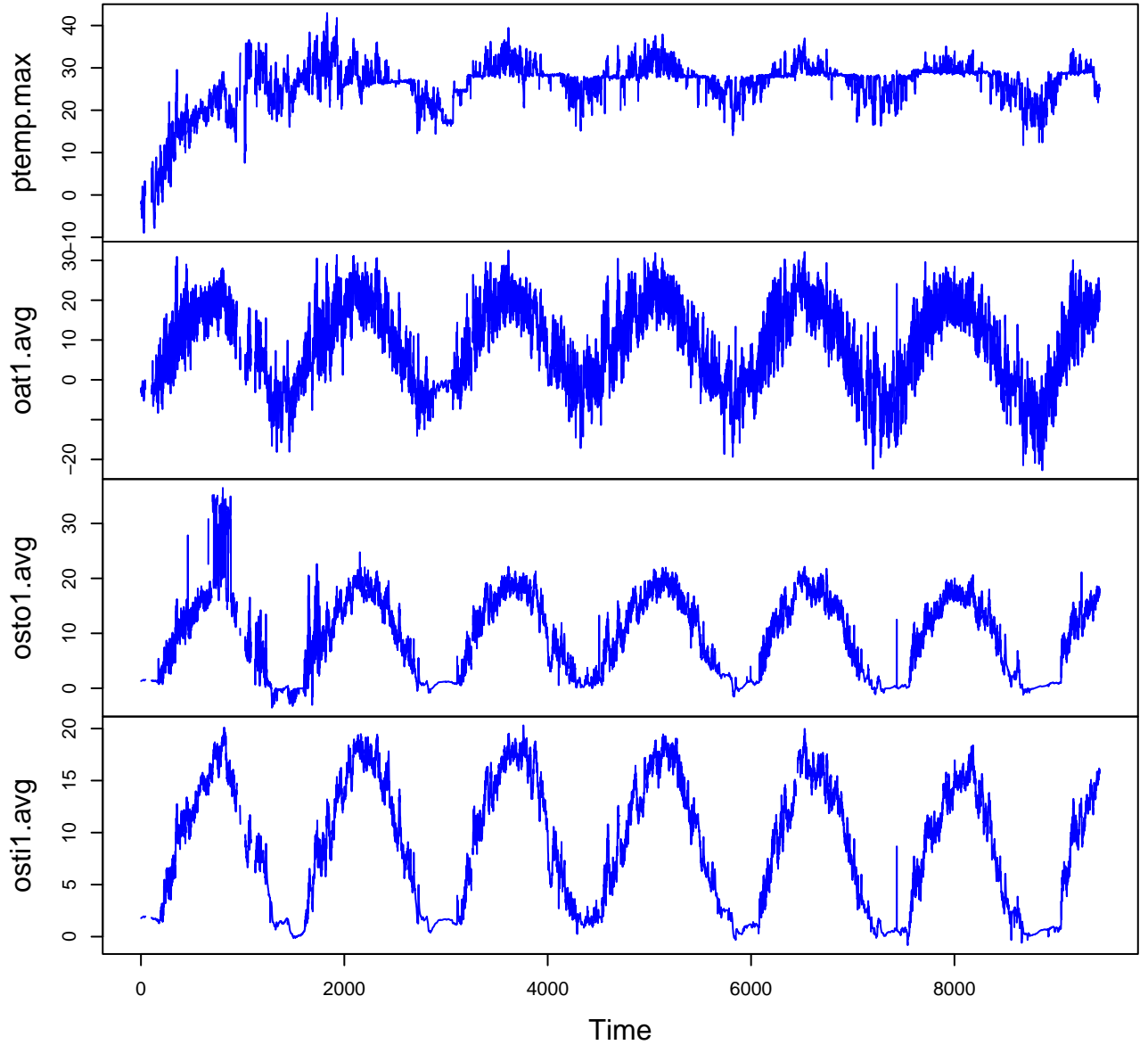
# HF113-03 Plot 1



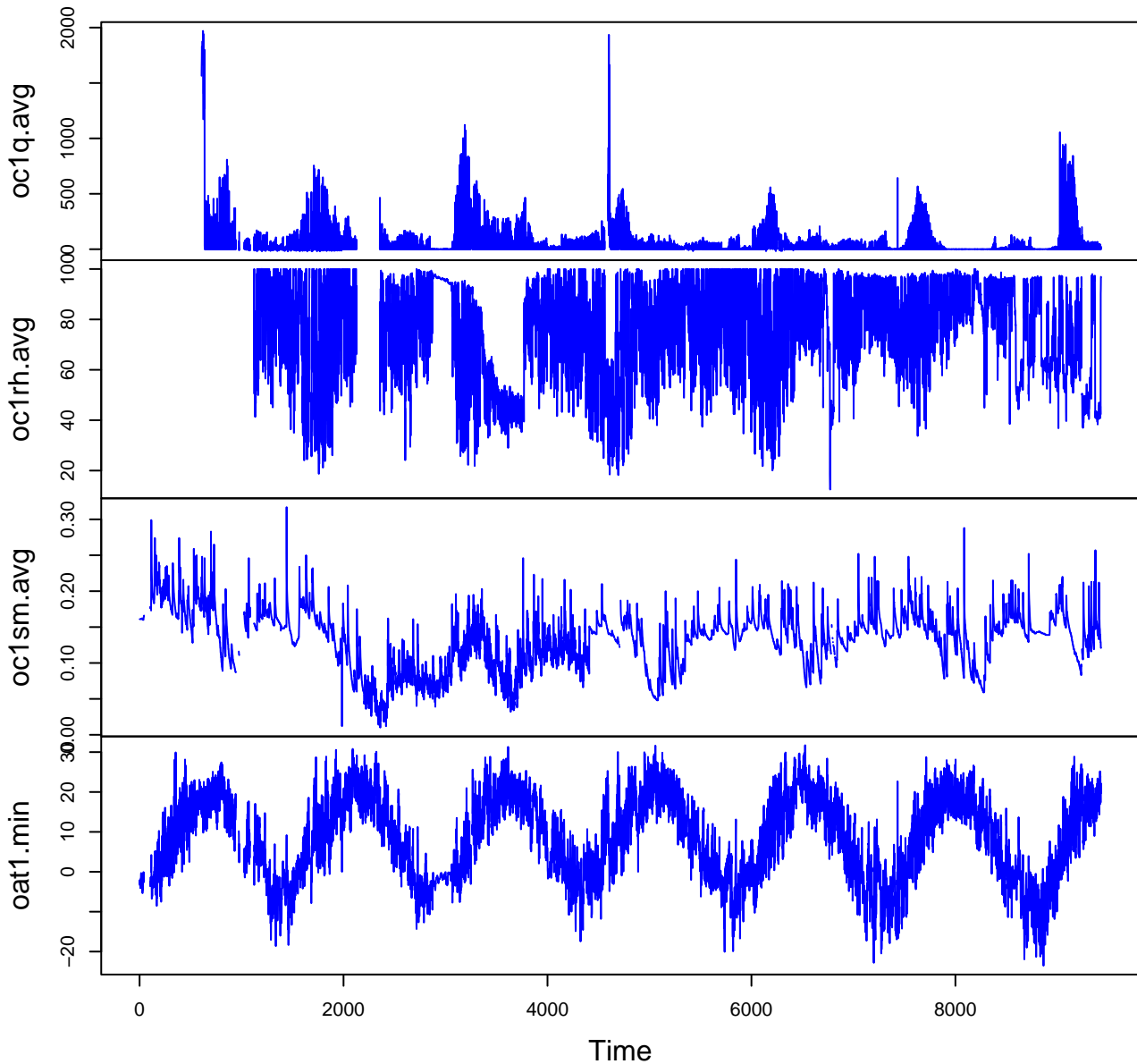
# HF113-03 Plot 2



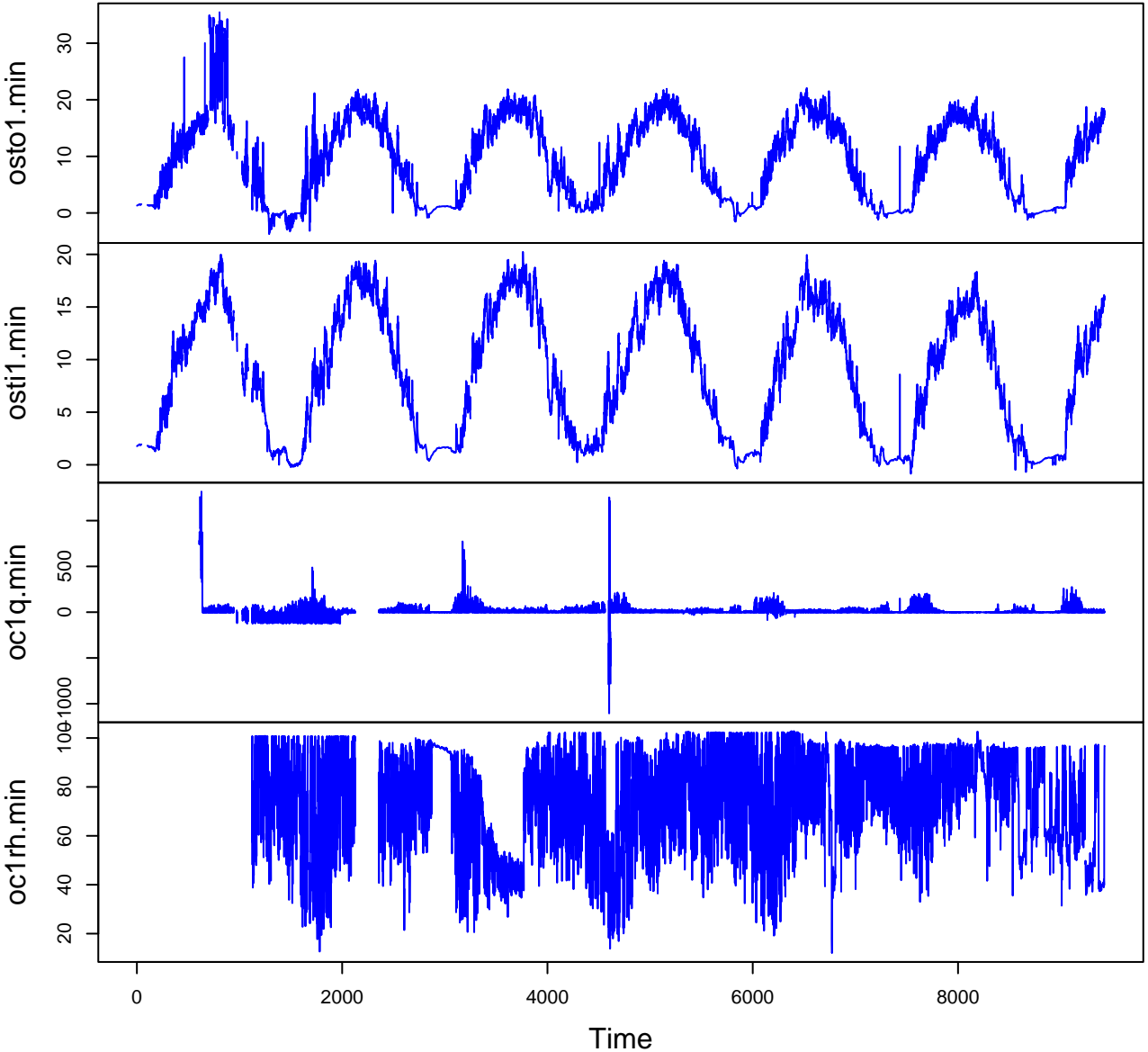
# HF113-03 Plot 3



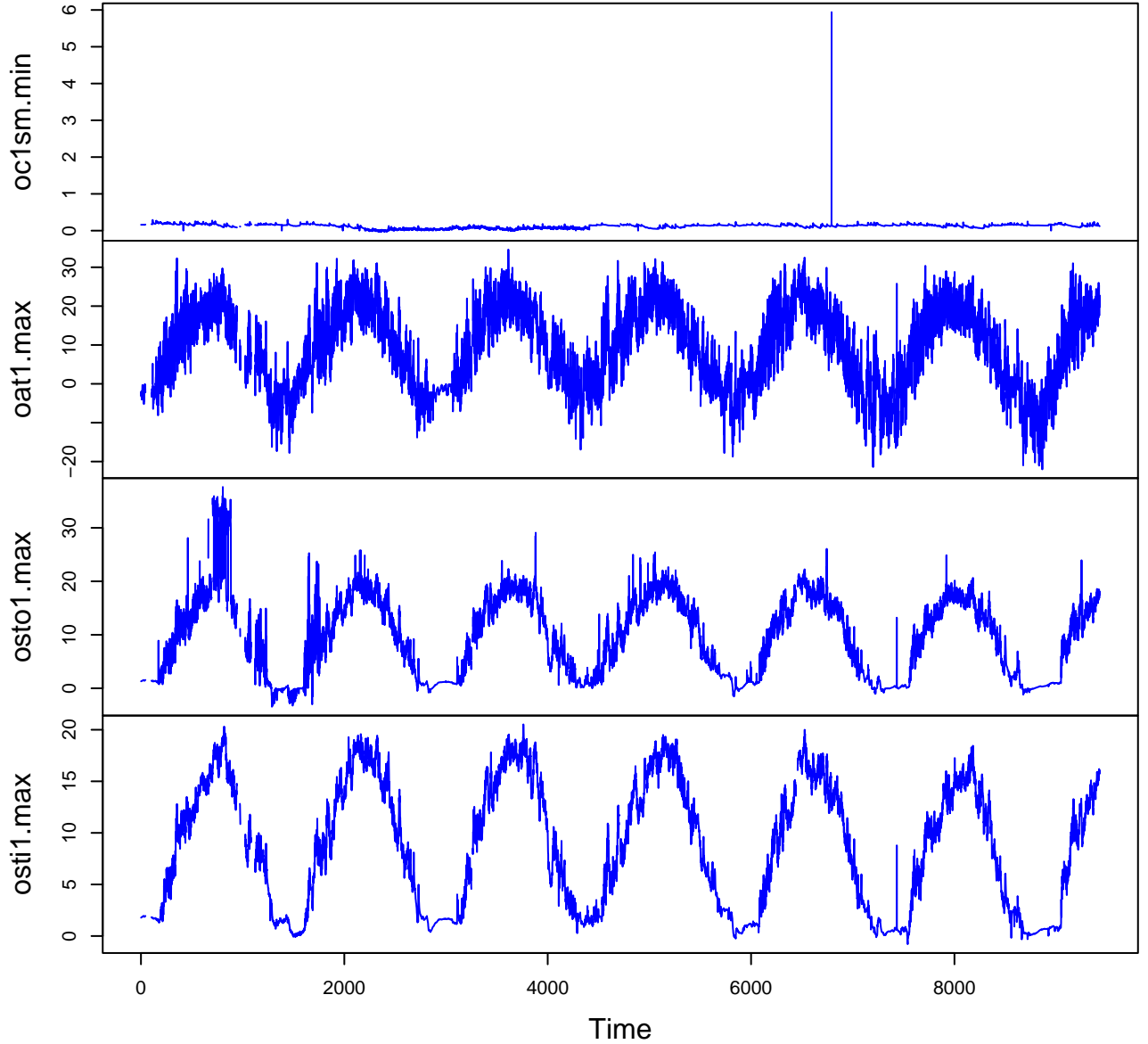
# HF113-03 Plot 4



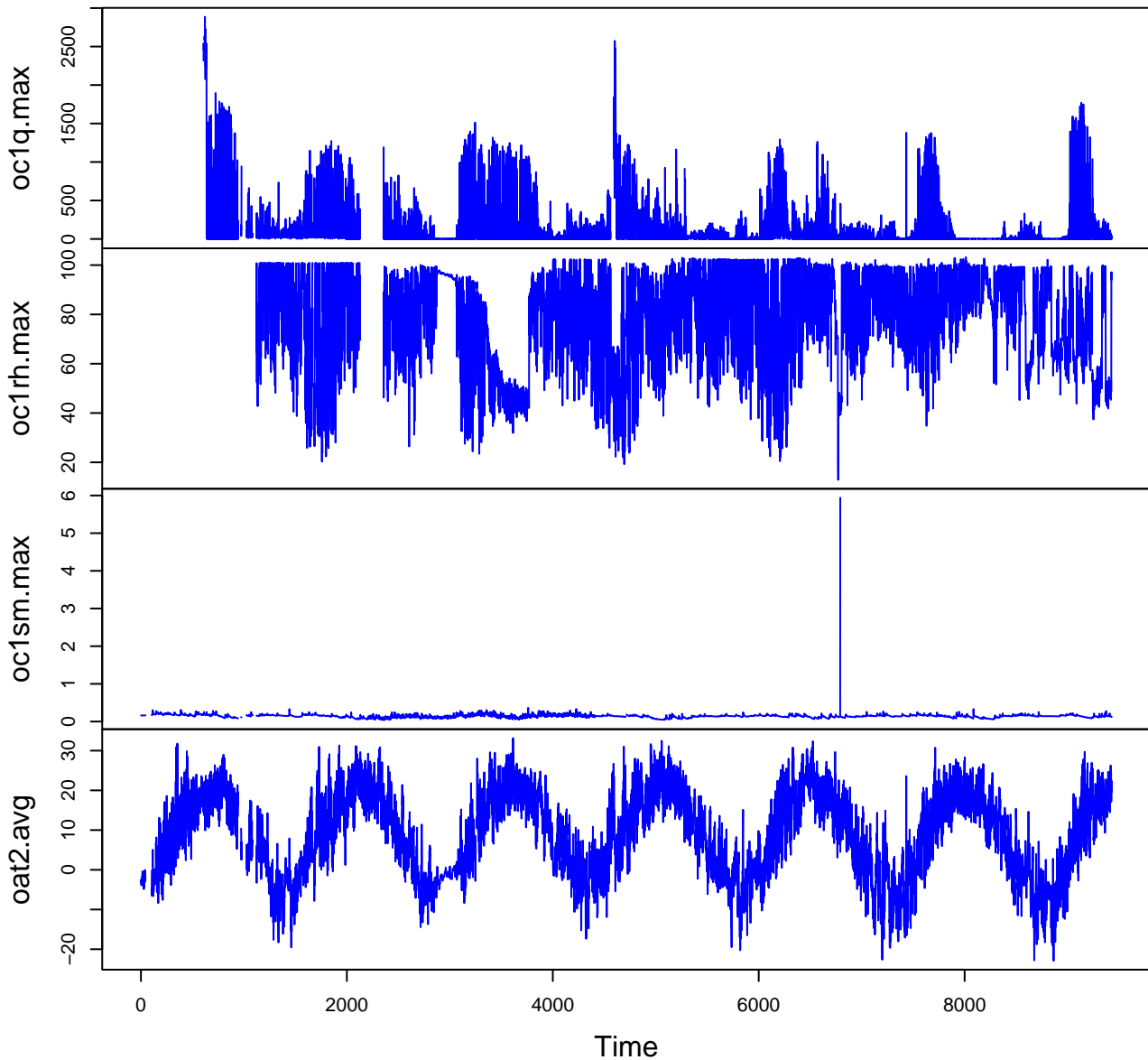
# HF113-03 Plot 5



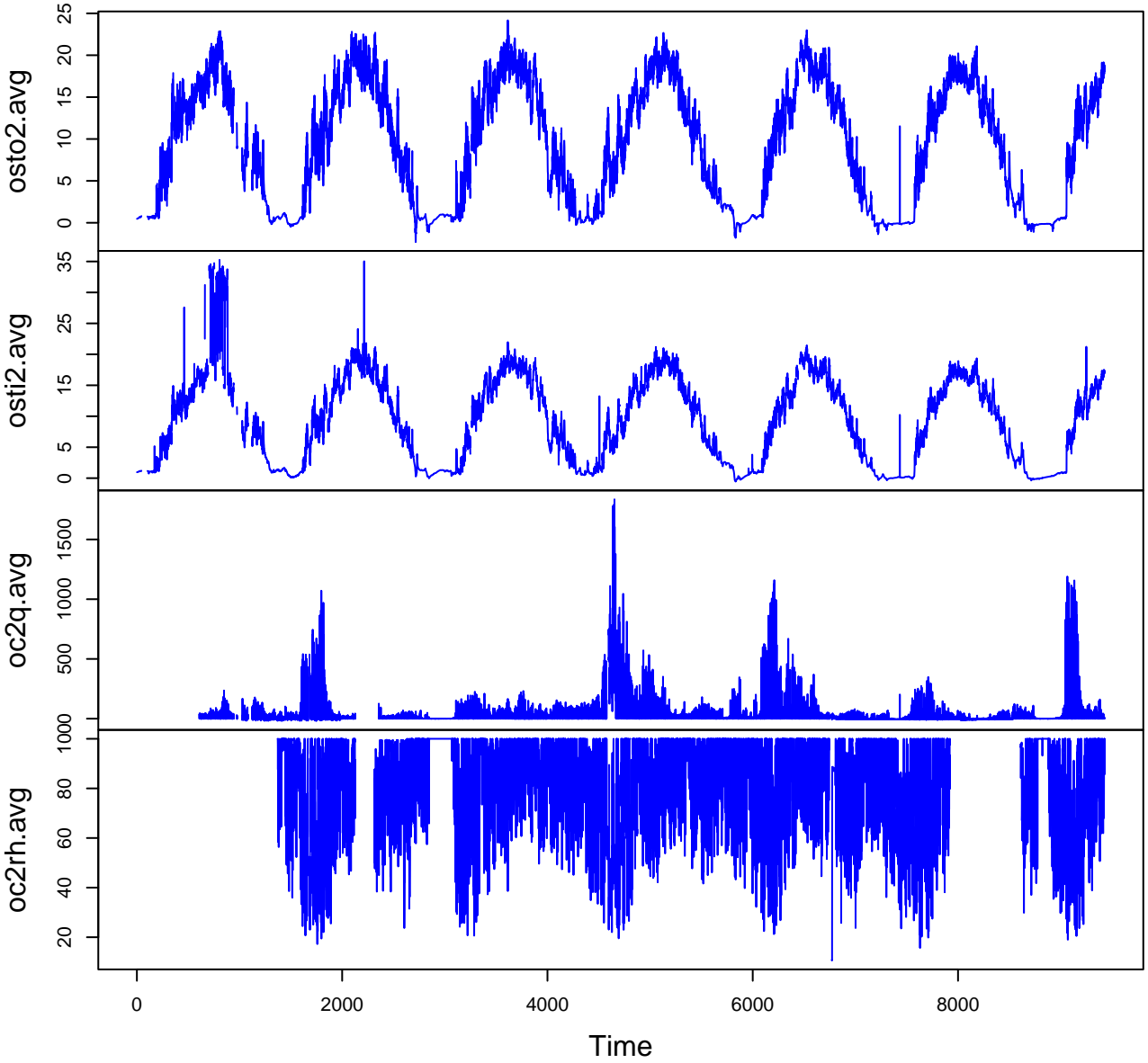
# HF113-03 Plot 6



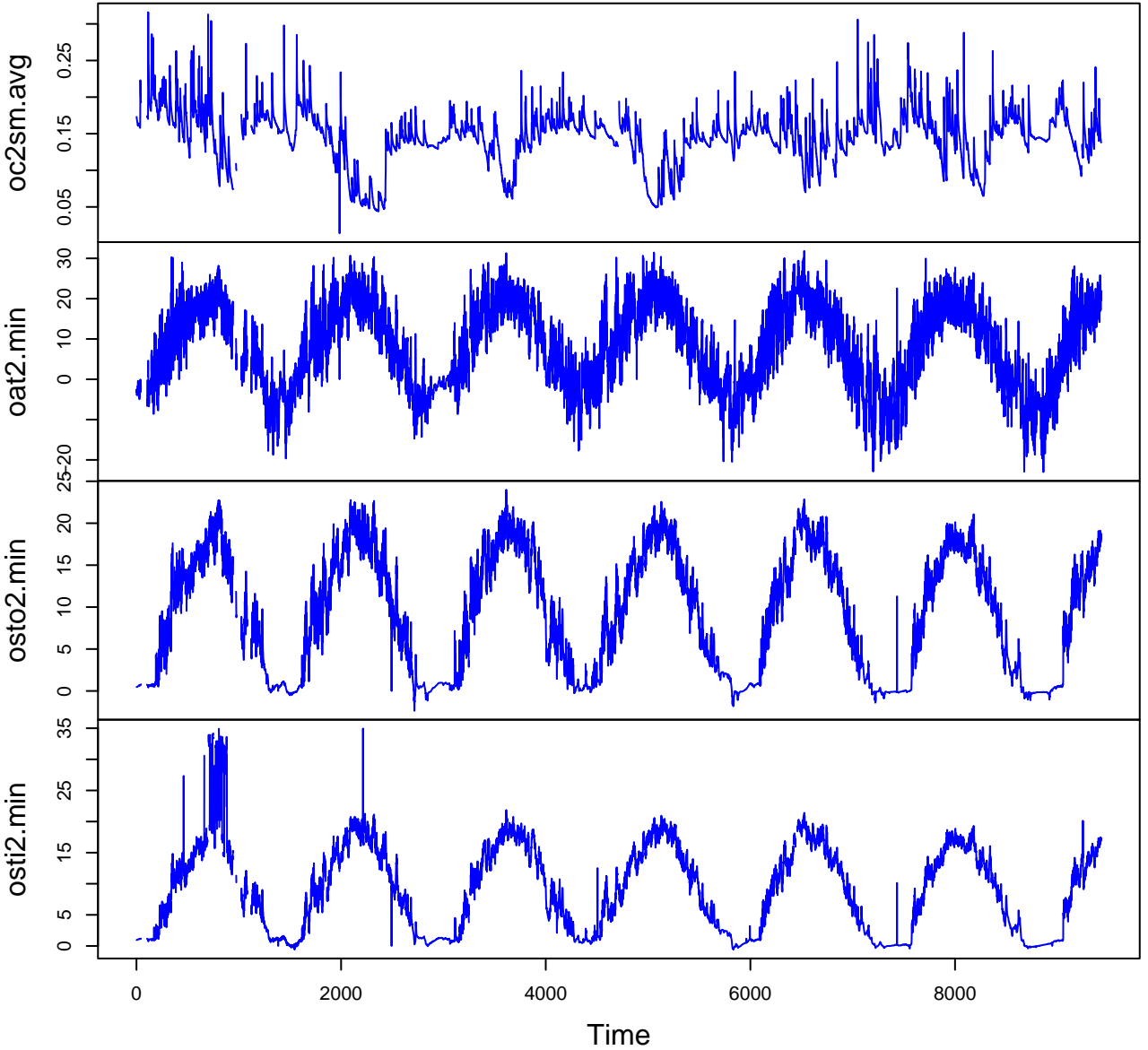
# HF113-03 Plot 7



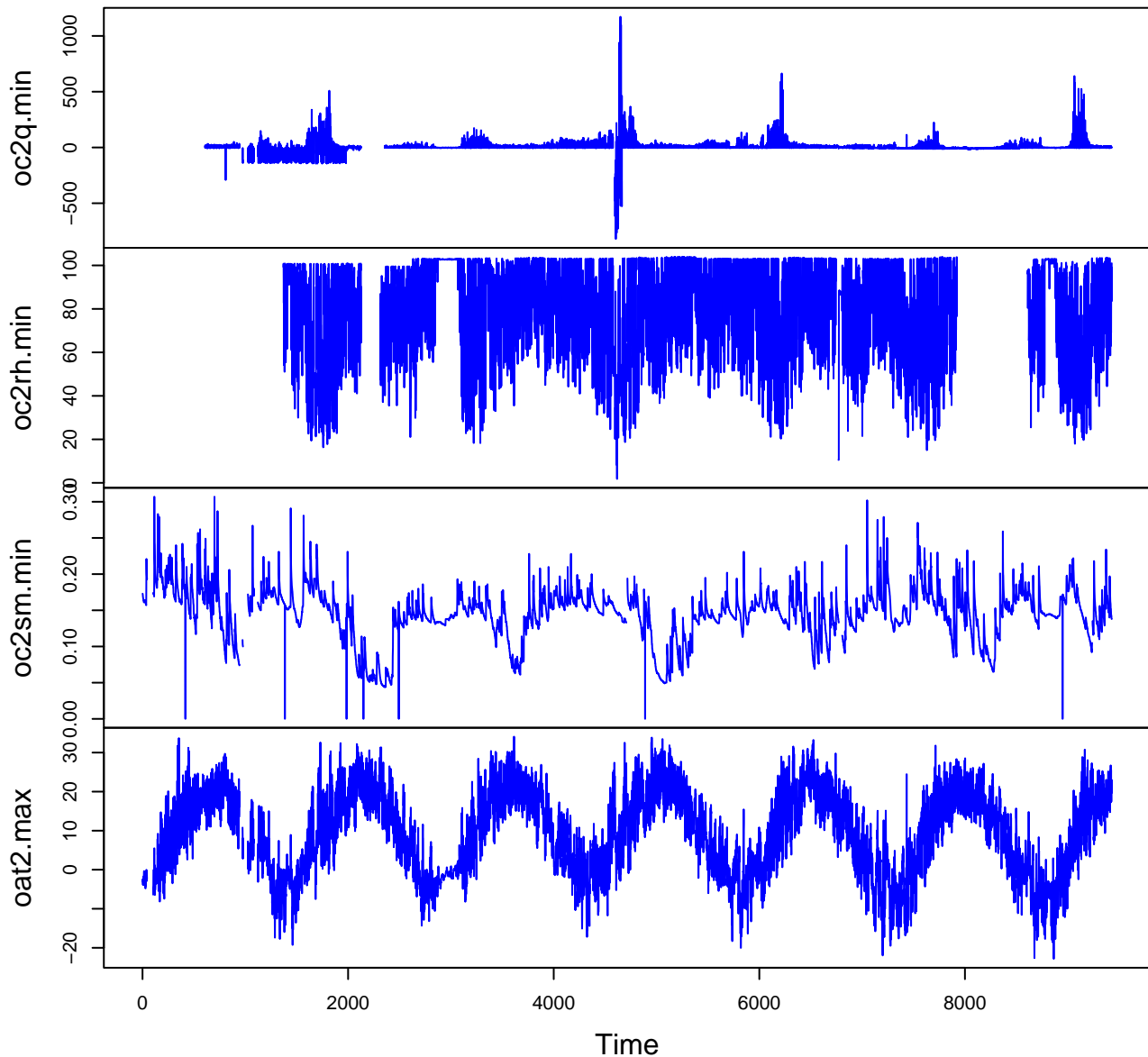
# HF113-03 Plot 8



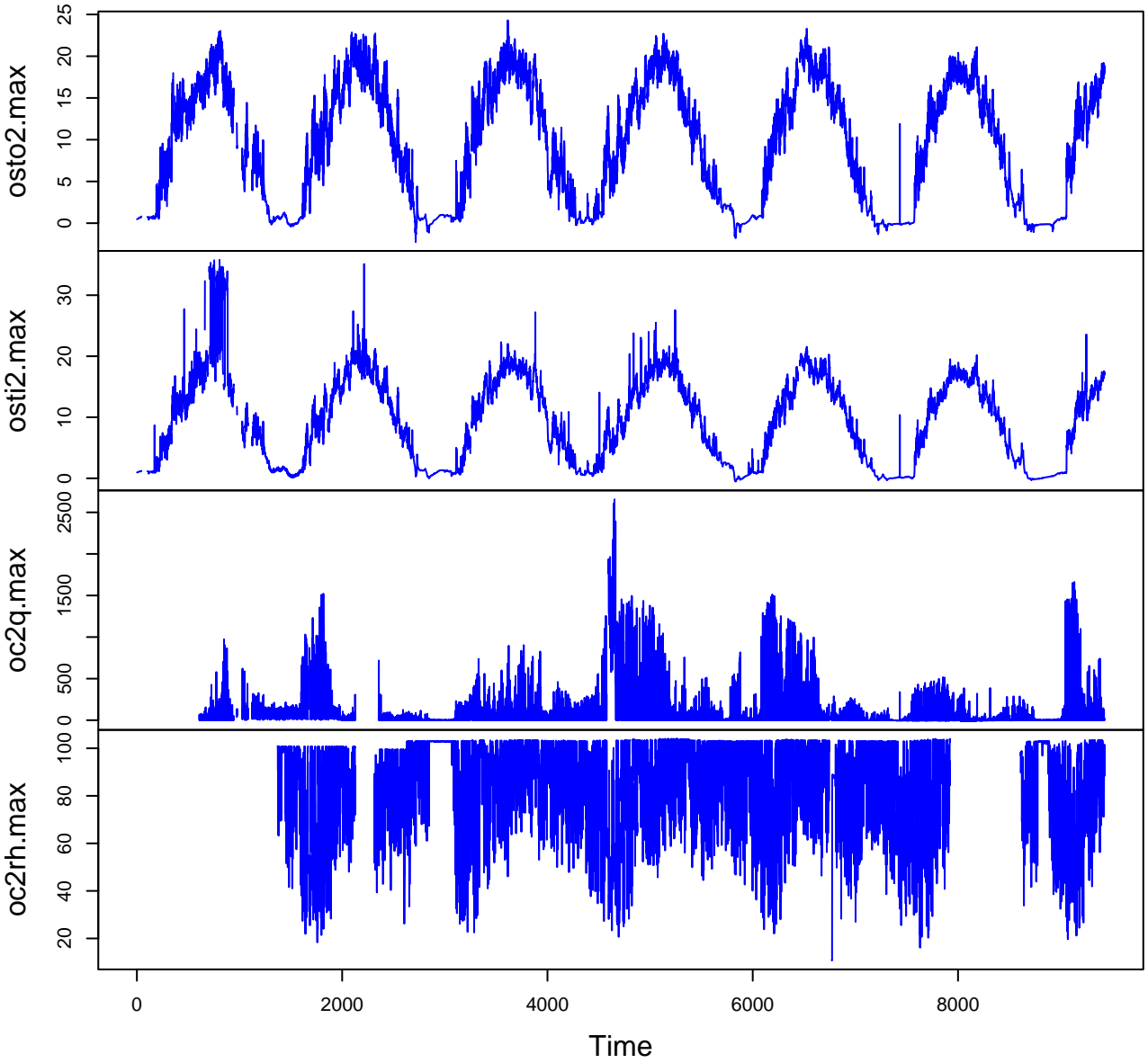
# HF113-03 Plot 9



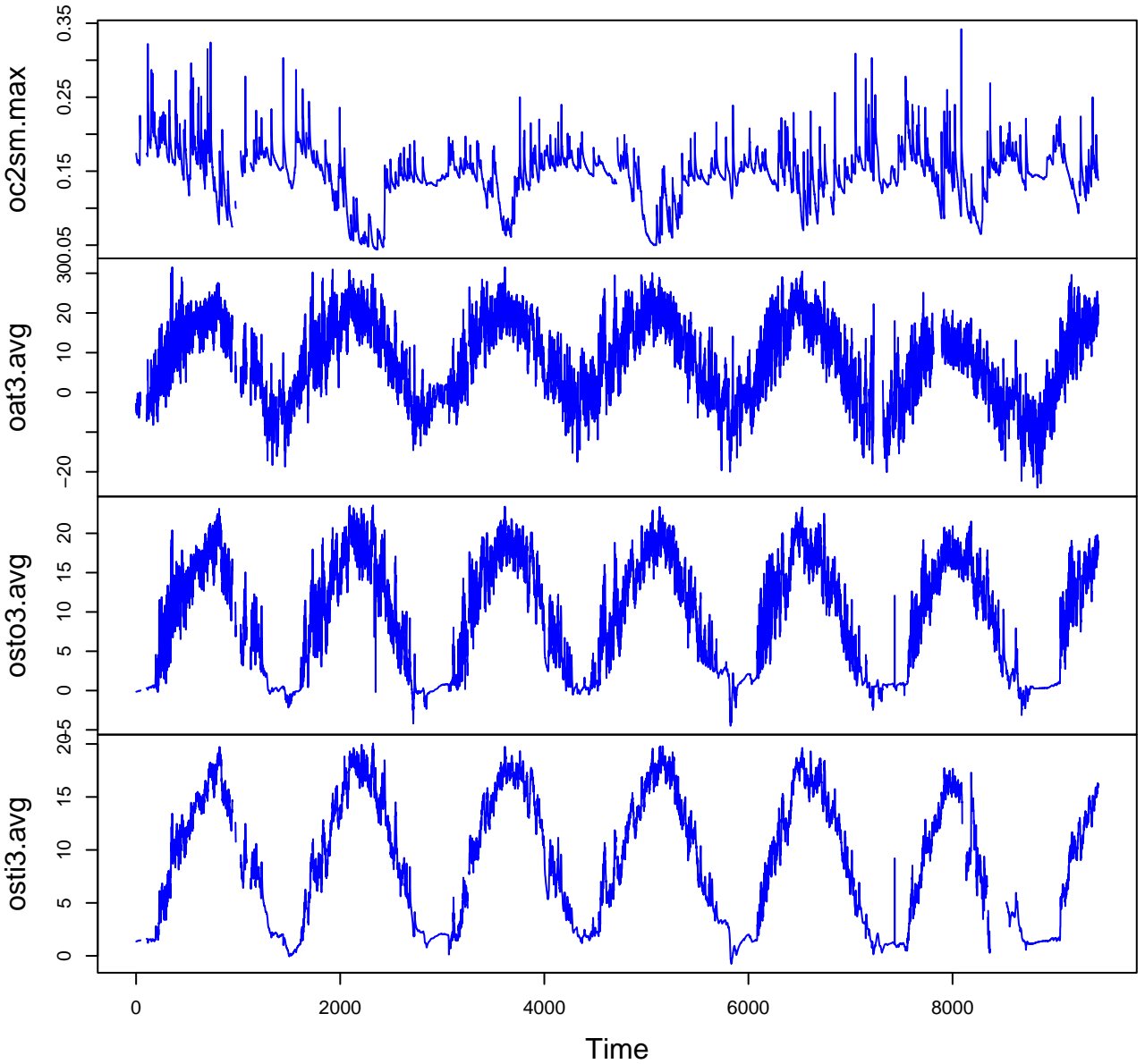
# HF113-03 Plot 10



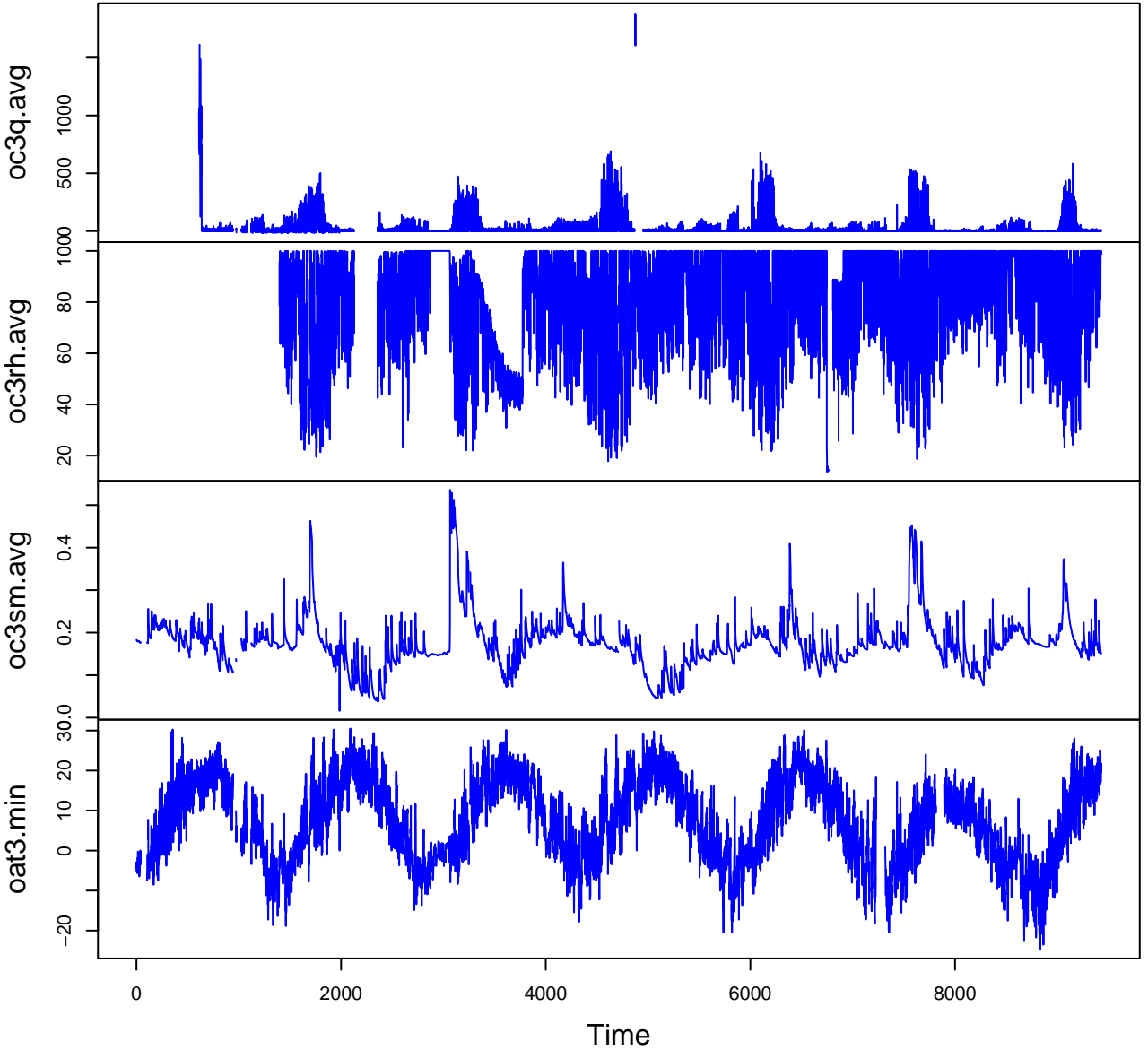
HF113-03 Plot 11



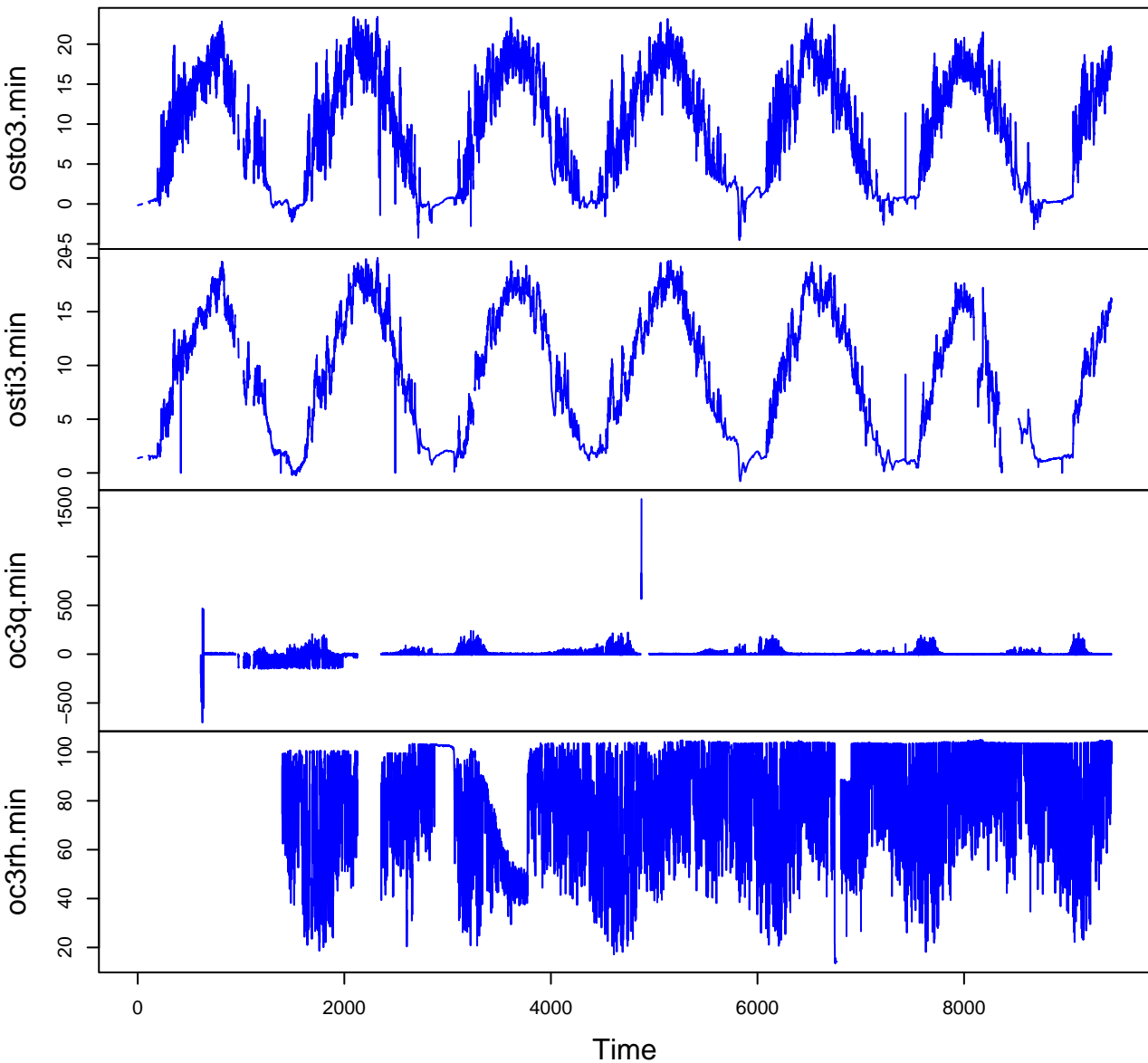
# HF113-03 Plot 12



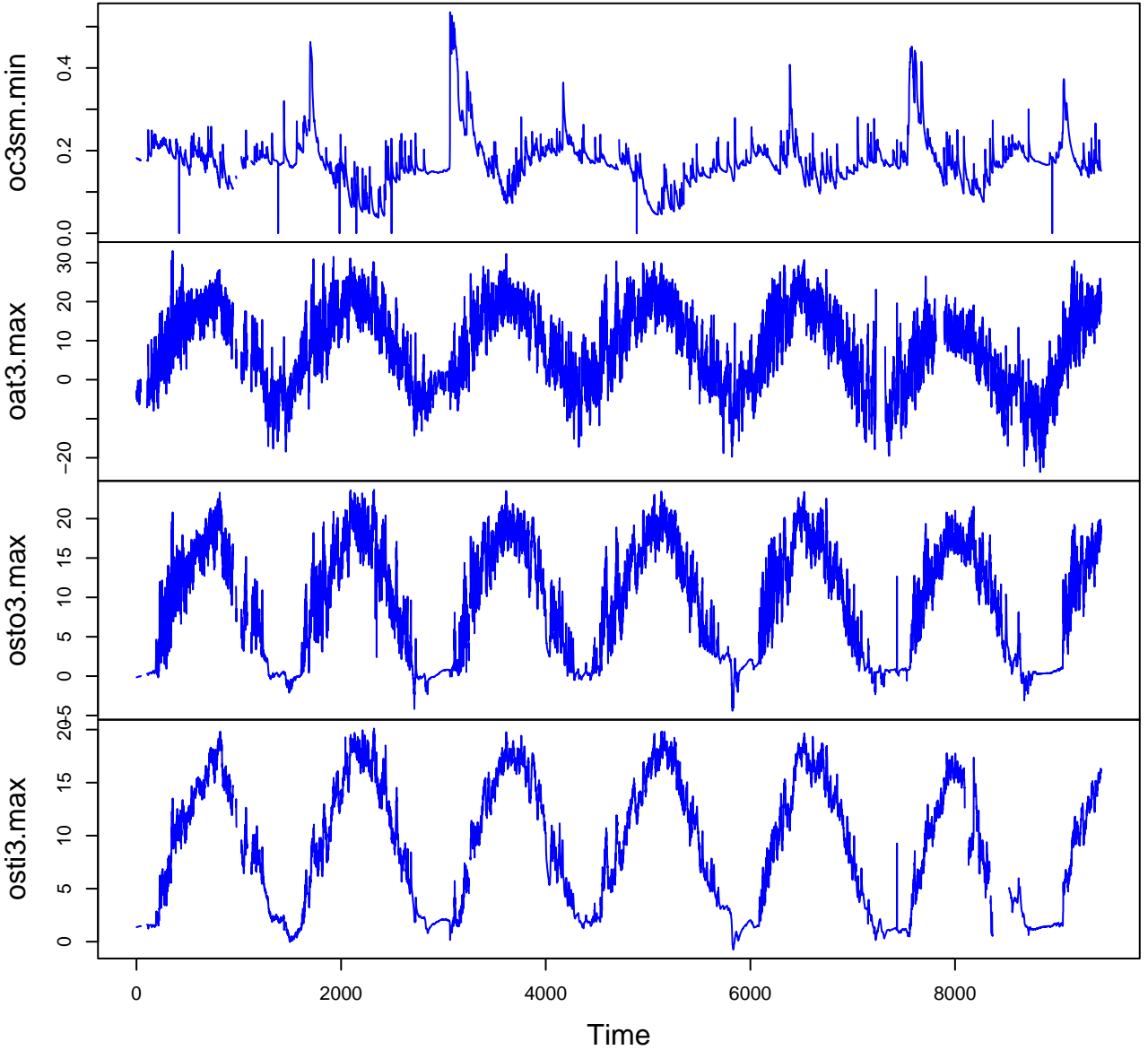
# HF113-03 Plot 13



# HF113-03 Plot 14



# HF113-03 Plot 15



# HF113-03 Plot 16

