

Harvard Forest Data Archive HF113-04

Data File:

Name = hf113-04-hf-hfp.csv
Description = HF heat flux plate data
Rows = 55446 Columns = 55
MD5 checksum = dcb3edb8768d41909ceeed6284916fa9

Variables:

datetime = time stamp
doy = Julian Day (nominalDay)
batt.volt.avg = battery voltage - average (volt)
shf.avg.1 = chamber 2 heat flux plate 1 - average
(wattPerMeterSquared)
shf.avg.2 = chamber 2 heat flux plate 2 - average
(wattPerMeterSquared)
shf.cal.1 = chamber 2 soil heat flux calibration for plate 1
(W/(m²mV)) (number)
shf.cal.2 = chamber 2 soil heat flux calibration for plate 2
(W/(m²mV)) (number)
t109.avg.1 = chamber 2 soil temperature at 2cm - set 1 - average
(celsius)
t109.avg.2 = chamber 2 soil temperature at 6cm - set 1 - average
(celsius)
t109.avg.3 = chamber 2 soil temperature at 2cm - set 2 - average
(celsius)
t109.avg.4 = chamber 2 soil temperature at 6cm - set 2 - average
(celsius)
vw.avg.1 = chamber 2 volumetric water content - average
(dimensionless)
pa.us.avg.1 = chamber 2 voltage for volumetric water content -
average (microsecond)
shf.max.1 = chamber 2 heat flux plate 1 - maximum
(wattPerMeterSquared)
shf.max.2 = chamber 2 heat flux plate 2 - maximum
(wattPerMeterSquared)
t109.max.1 = chamber 2 soil temperature at 2cm - set 1 - maximum
(celsius)
t109.max.2 = chamber 2 soil temperature at 6cm - set 1 - maximum
(celsius)
t109.max.3 = chamber 2 soil temperature at 2cm - set 2 - maximum
(celsius)
t109.max.4 = chamber 2 soil temperature at 6cm - set 2 - maximum
(celsius)
vw.max.1 = chamber 2 volumetric water content - maximum
(dimensionless)
pa.us.max.1 = chamber 2 voltage for volumetric water content -
maximum (microsecond)
shf.min.1 = chamber 2 heat flux plate 1 - minimum
(wattPerMeterSquared)

shf.min.2 = chamber 2 heat flux plate 2 - minimum
(wattPerMeterSquared)

t109.min.1 = chamber 2 soil temperature at 2cm - set 1 - minimum
(celsius)

t109.min.2 = chamber 2 soil temperature at 6cm - set 1 - minimum
(celsius)

t109.min.3 = chamber 2 soil temperature at 2cm - set 2 - minimum
(celsius)

t109.min.4 = chamber 2 soil temperature at 6cm - set 2 - minimum
(celsius)

vw.min.1 = chamber 2 volumetric water content - minimum
(dimensionless)

pa.us.min.1 = chamber 2 voltage for volumetric water content -
minimum (microsecond)

shf.avg.3 = chamber 4 heat flux plate 1 - average
(wattPerMeterSquared)

shf.avg.4 = chamber 4 heat flux plate 2 - average
(wattPerMeterSquared)

shf.cal.3 = chamber 4 soil heat flux calibration for plate 1
(W/(m²mV)) (number)

shf.cal.4 = chamber 4 soil heat flux calibration for plate 2
(W/(m²mV)) (number)

t109.avg.5 = chamber 4 soil temperature at 2cm - set 1 - average
(celsius)

t109.avg.6 = chamber 4 soil temperature at 6cm - set 1 - average
(celsius)

t109.avg.7 = chamber 4 soil temperature at 2cm - set 2 - average
(celsius)

t109.avg.8 = chamber 4 soil temperature at 6cm - set 2 - average
(celsius)

vw.avg.2 = chamber 4 volumetric water content - average
(dimensionless)

pa.us.avg.2 = chamber 4 voltage for volumetric water content -
average (microsecond)

shf.max.3 = chamber 4 heat flux plate 1 - maximum
(wattPerMeterSquared)

shf.max.4 = chamber 4 heat flux plate 2 - maximum
(wattPerMeterSquared)

t109.max.5 = chamber 4 soil temperature at 2cm - set 1 - maximum
(celsius)

t109.max.6 = chamber 4 soil temperature at 6cm - set 1 - maximum
(celsius)

t109.max.7 = chamber 4 soil temperature at 2cm - set 2 - maximum
(celsius)

t109.max.8 = chamber 4 soil temperature at 6cm - set 2 - maximum
(celsius)

vw.max.2 = chamber 4 volumetric water content - maximum
(dimensionless)

pa.us.max.2 = chamber 4 voltage for volumetric water content -
maximum (microsecond)

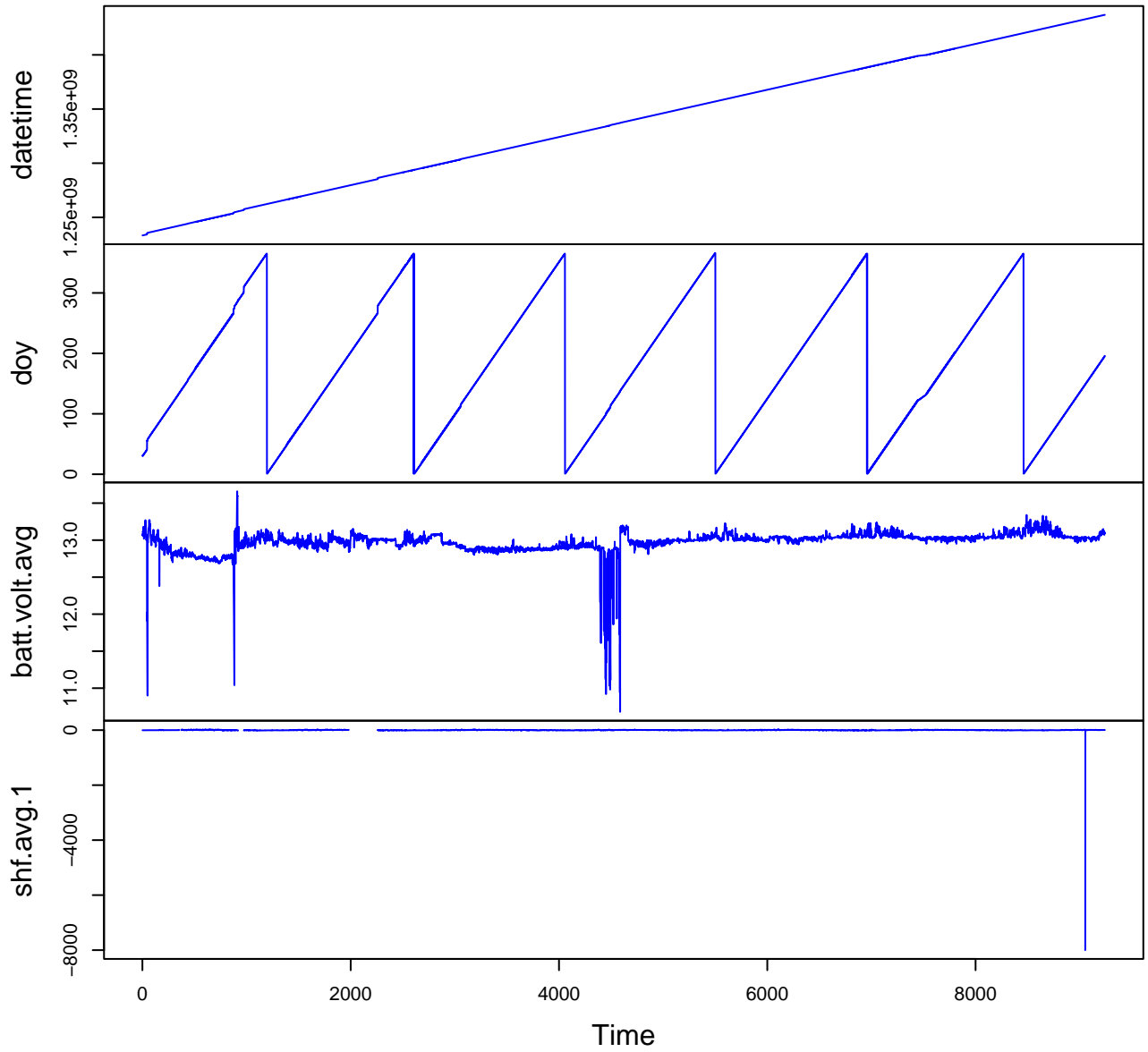
shf.min.3 = chamber 4 heat flux plate 1 - minimum (celsius)

shf.min.4 = chamber 4 heat flux plate 2 - minimum (celsius)
t109.min.5 = chamber 4 soil temperature at 2cm - set 1 - minimum
(celsius)
t109.min.6 = chamber 4 soil temperature at 6cm - set 1 - minimum
(celsius)
t109.min.7 = chamber 4 soil temperature at 2cm - set 2 - minimum
(celsius)
t109.min.8 = chamber 4 soil temperature at 6cm - set 2 - minimum
(celsius)
vw.min.2 = chamber 4 volumetric water content - minimum
(dimensionless)
pa.us.min.2 = chamber 4 voltage for volumetric water content -
minimum (microsecond)

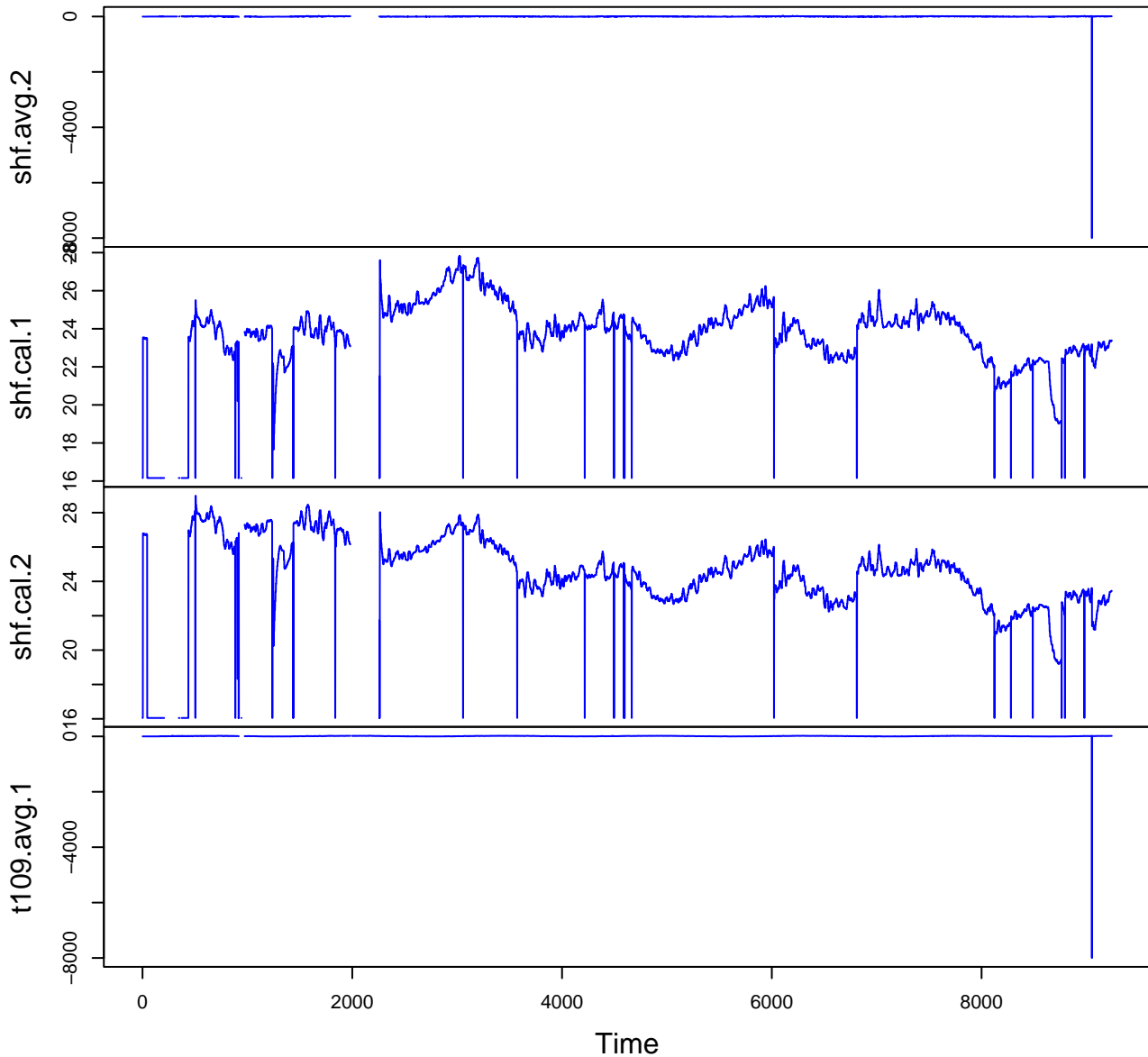
Variable	Min	Median	Mean	Max	NAs
datetime	2009-01-30T10:00			2015-07-15T09:00	1
doy	1.000	172.000	177.665	366.000	0
batt.volt.av	9.150	13.000	12.977	13.660	24
shf.avg.1	-7999.000	0.000	-1.470	23.551	2354
shf.avg.2	-7999.000	0.000	-1.357	24.690	2333
shf.cal.1	0.000	23.966	23.667	27.833	2977
shf.cal.2	0.000	24.576	24.419	28.983	2975
t109.avg.1	-7999.000	10.070	7.478	23.700	542
t109.avg.2	-7999.000	9.920	7.376	23.210	542
t109.avg.3	-7999.000	9.980	7.344	23.870	545
t109.avg.4	-7999.000	9.950	7.347	22.610	540
vw.avg.1	0.055	0.153	0.156	0.414	45
pa.us.avg.1	18.440	22.760	22.760	31.090	45
shf.max.1	-7999.000	0.000	-1.070	32.170	2334
shf.max.2	-7999.000	0.000	-0.810	43.700	2231
t109.max.1	-7999.000	10.150	7.840	23.730	535
t109.max.2	-7999.000	9.960	7.706	23.350	537
t109.max.3	-7999.000	10.070	7.709	23.920	541
t109.max.4	-7999.000	10.010	7.688	22.620	533
vw.max.1	0.056	0.153	0.156	0.415	44
pa.us.max.1	18.450	22.770	22.776	31.110	44
shf.min.1	-7999.000	0.000	-1.558	23.260	2338
shf.min.2	-7999.000	0.000	-1.287	24.690	2229
t109.min.1	-7999.000	9.990	7.699	23.670	536
t109.min.2	-7999.000	9.880	7.629	23.000	537
t109.min.3	-7999.000	9.900	7.563	23.860	542
t109.min.4	-7999.000	9.890	7.590	22.610	533
vw.min.1	0.055	0.153	0.156	0.413	44
pa.us.min.1	18.420	22.750	22.745	31.060	44
shf.avg.3	-7999.000	-0.401	-3.296	45.943	3080
shf.avg.4	-7999.000	-1.370	-2.484	49.872	2688
shf.cal.3	0.000	17.325	17.378	50.403	3307
shf.cal.4	0.000	22.381	22.268	26.761	3307
t109.avg.5	-7999.000	8.060	5.684	23.550	1292
t109.avg.6	-7999.000	8.360	5.841	26.090	542
t109.avg.7	-7999.000	8.060	5.833	34.410	1139
t109.avg.8	-7999.000	8.250	5.929	21.600	547
vw.avg.2	0.040	0.127	0.124	0.327	44
pa.us.avg.2	17.590	21.700	21.481	28.630	44
shf.max.3	-7999.000	0.000	-2.828	3514.000	3031
shf.max.4	-7999.000	-0.824	-1.810	50.370	2641
t109.max.5	-7999.000	8.170	6.054	23.580	1281
t109.max.6	-7999.000	8.430	6.187	29.170	534
t109.max.7	-7999.000	8.260	6.275	35.590	1129
t109.max.8	-7999.000	8.320	6.262	21.650	540
vw.max.2	0.040	0.127	0.124	0.329	44
pa.us.max.2	17.610	21.710	21.498	28.690	44
shf.min.3	-7999.000	-0.593	-3.306	3514.000	3026
shf.min.4	-7999.000	-1.473	-2.532	48.950	2636

Variable	Min	Median	Mean	Max	NAs
t109.min.5	-7999.000	7.942	5.909	23.520	1281
t109.min.6	-7999.000	8.300	6.082	25.130	534
t109.min.7	-7999.000	7.870	5.967	33.040	1130
t109.min.8	-7999.000	8.180	6.170	21.590	540
vw.min.2	0.039	0.126	0.123	0.324	44
pa.us.min.2	17.590	21.690	21.465	28.540	44

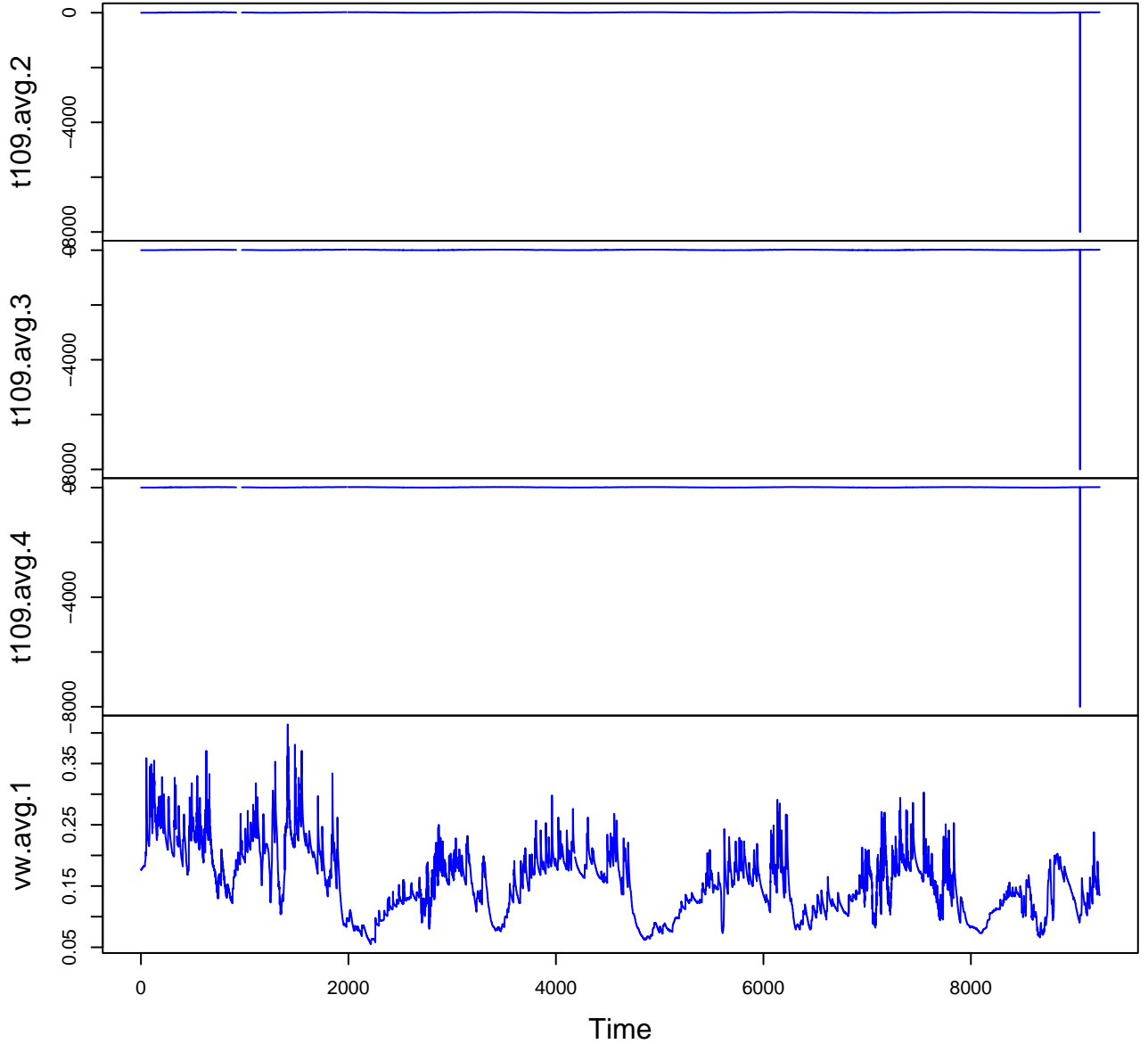
HF113-04 Plot 1



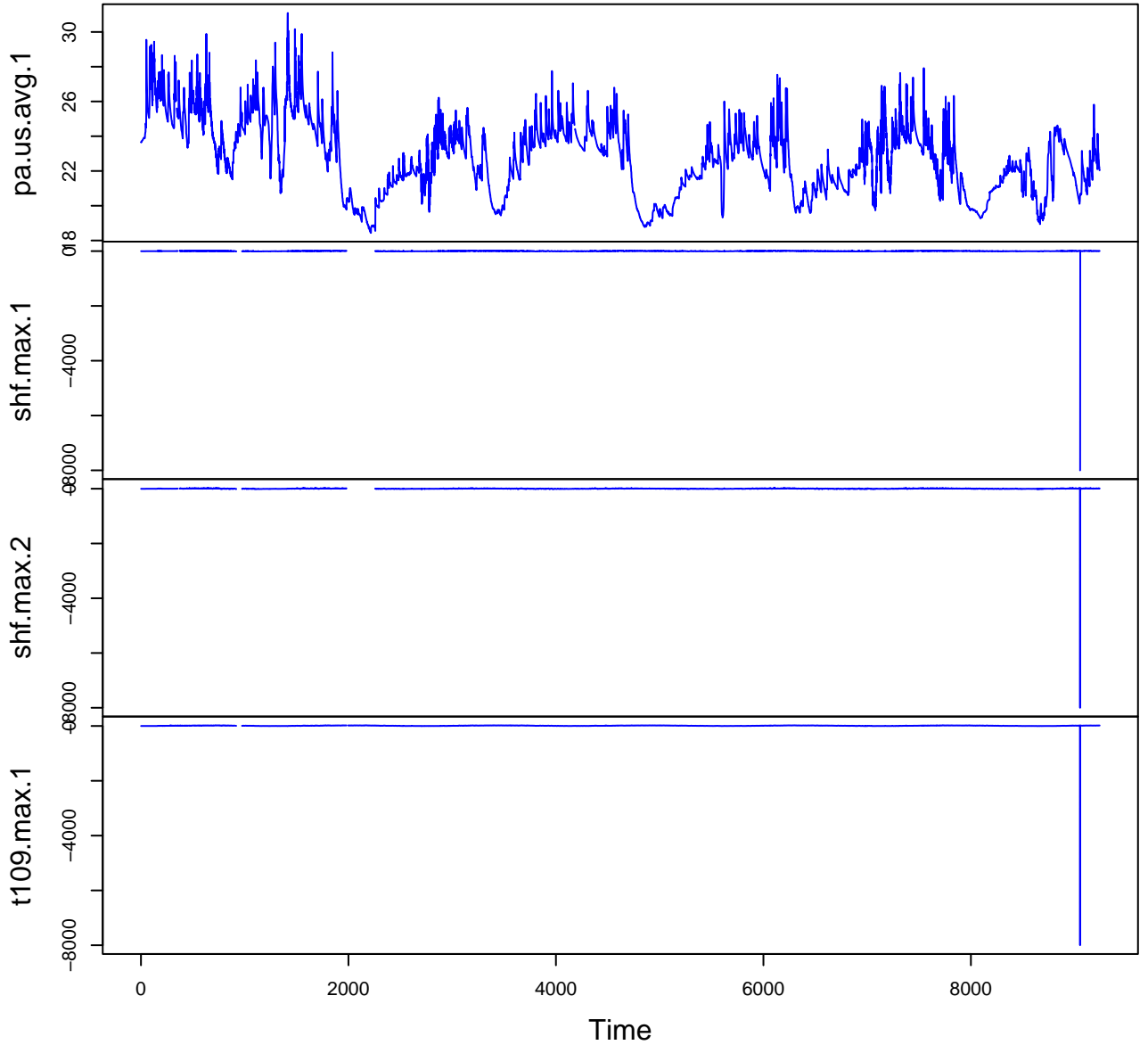
HF113-04 Plot 2



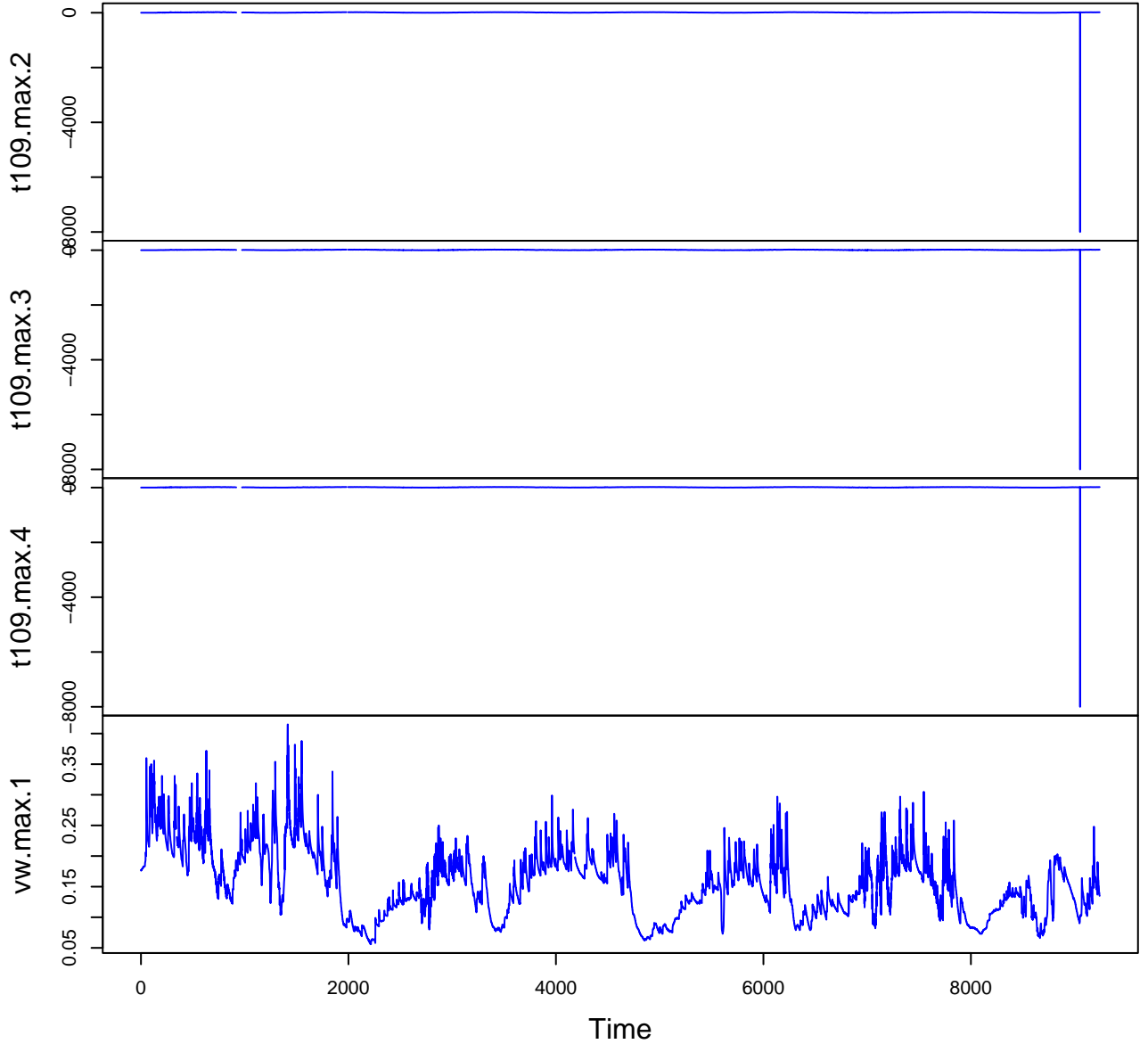
HF113-04 Plot 3



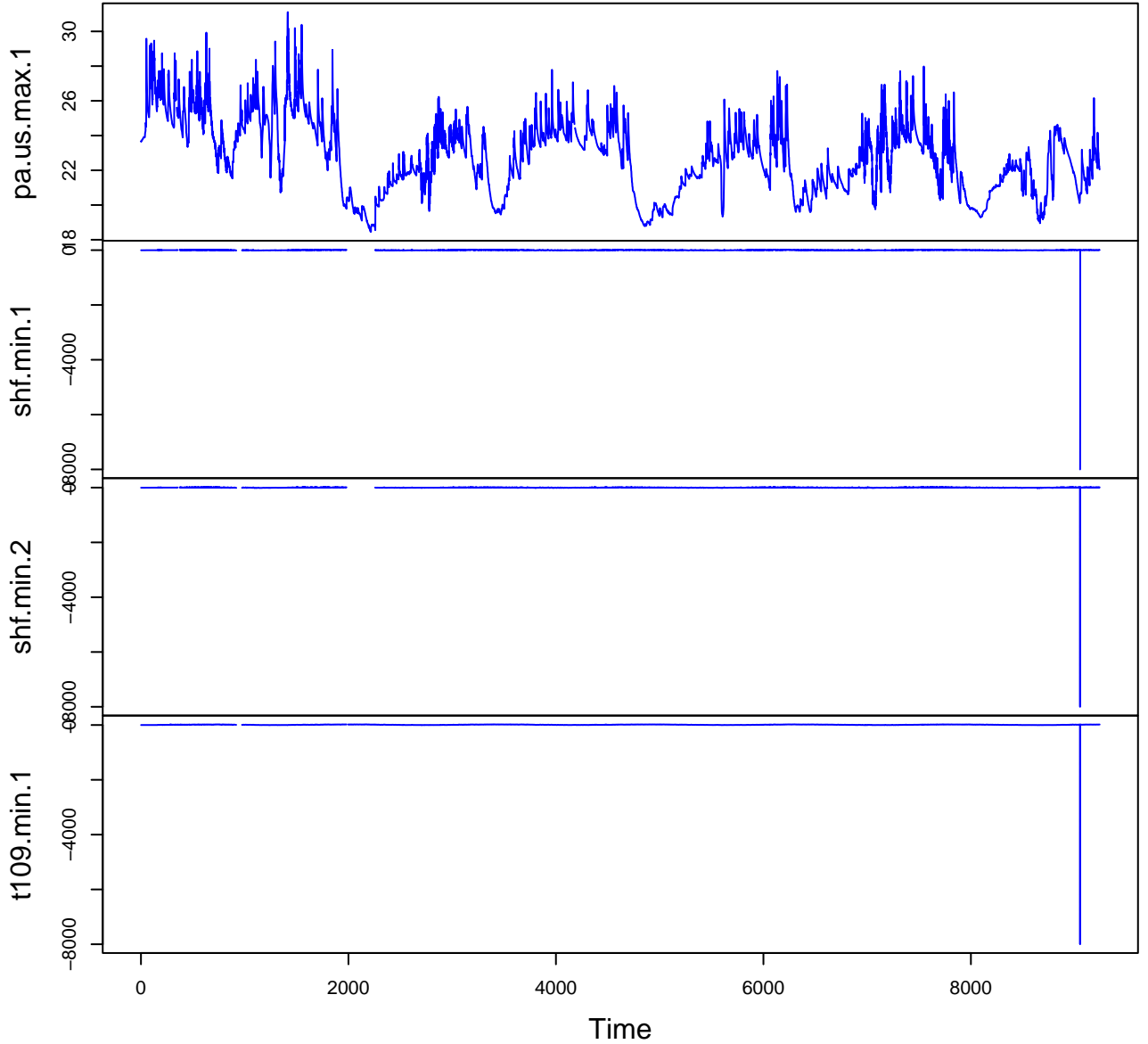
HF113-04 Plot 4



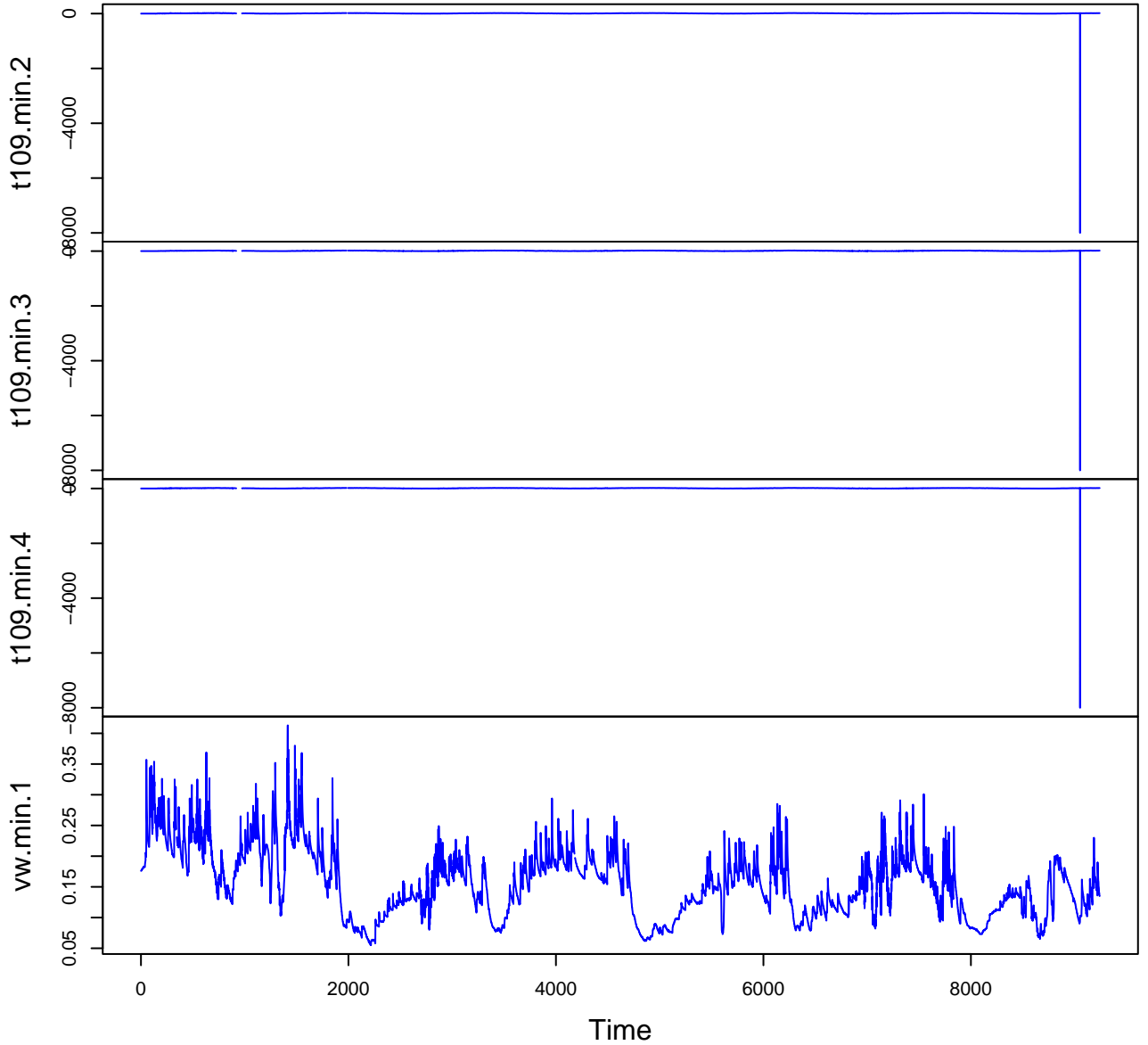
HF113-04 Plot 5



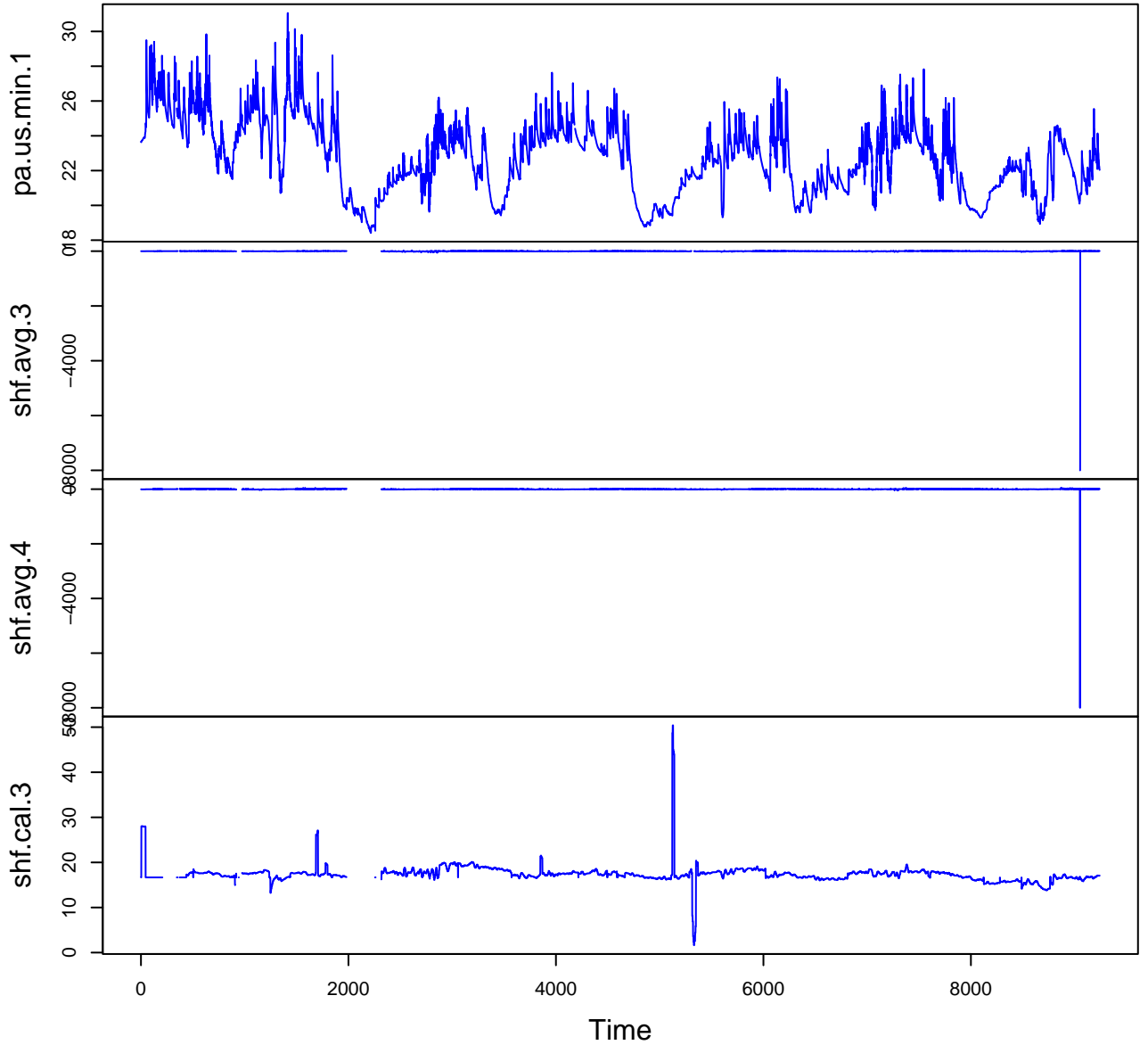
HF113-04 Plot 6



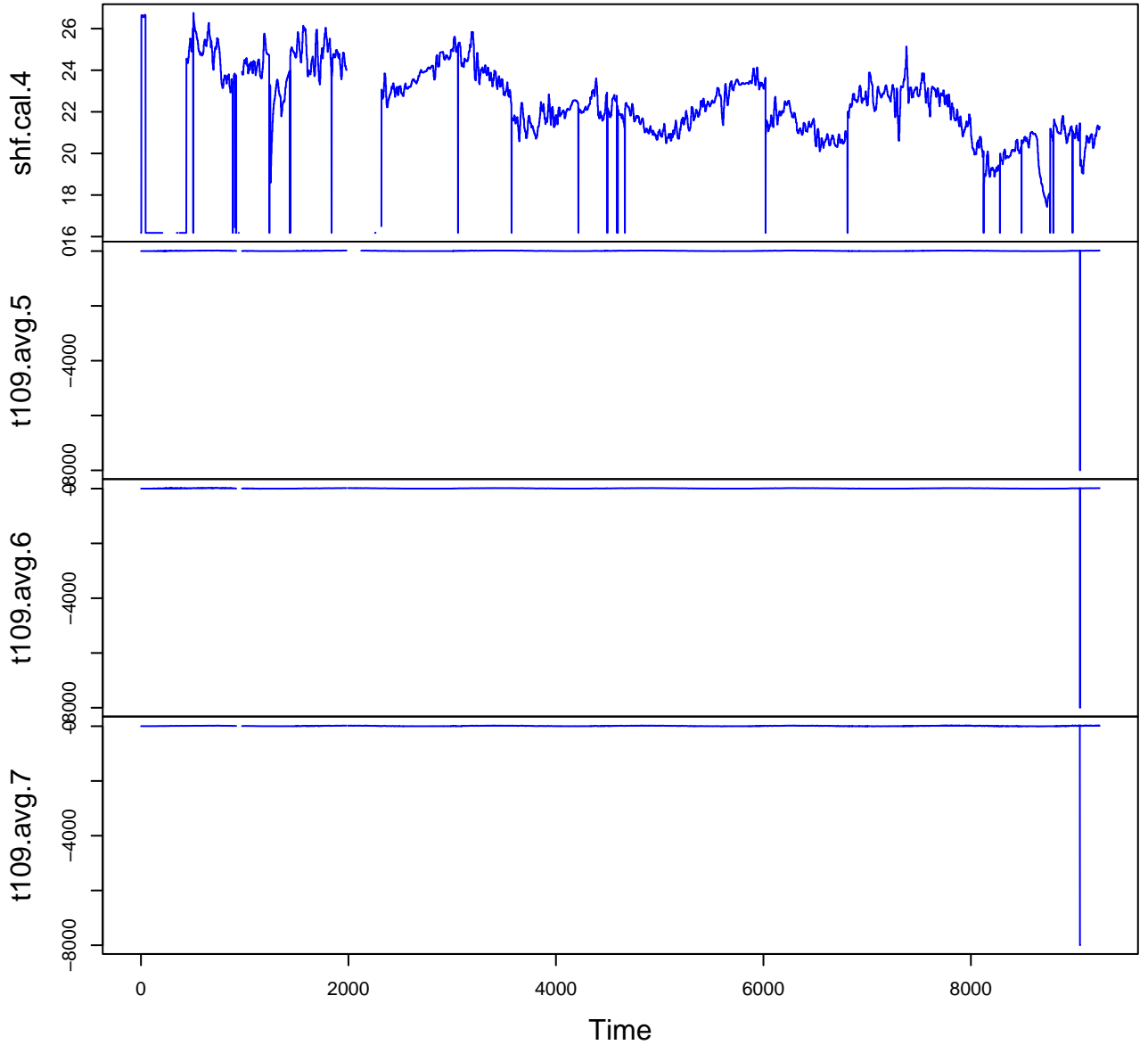
HF113-04 Plot 7



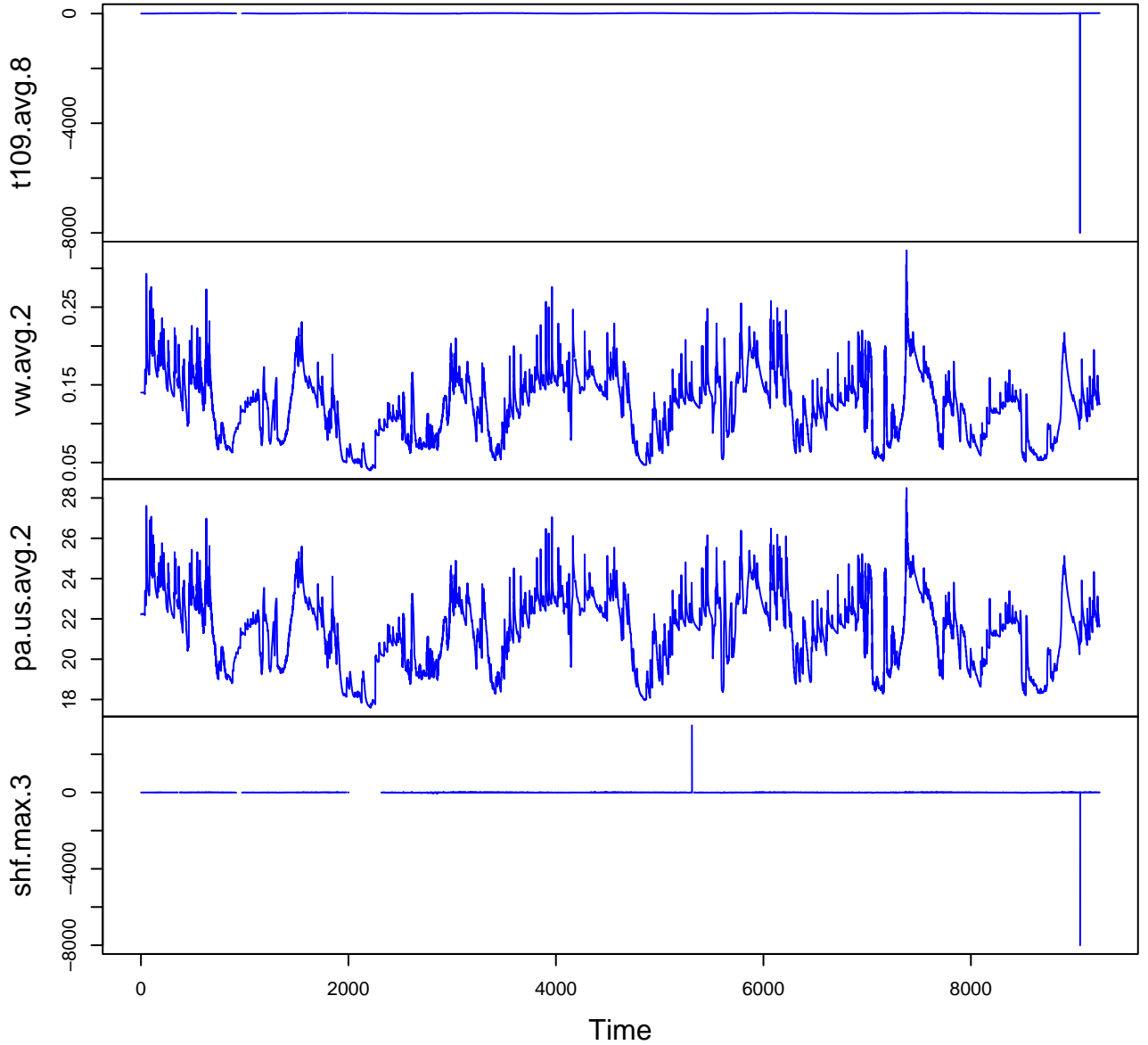
HF113-04 Plot 8



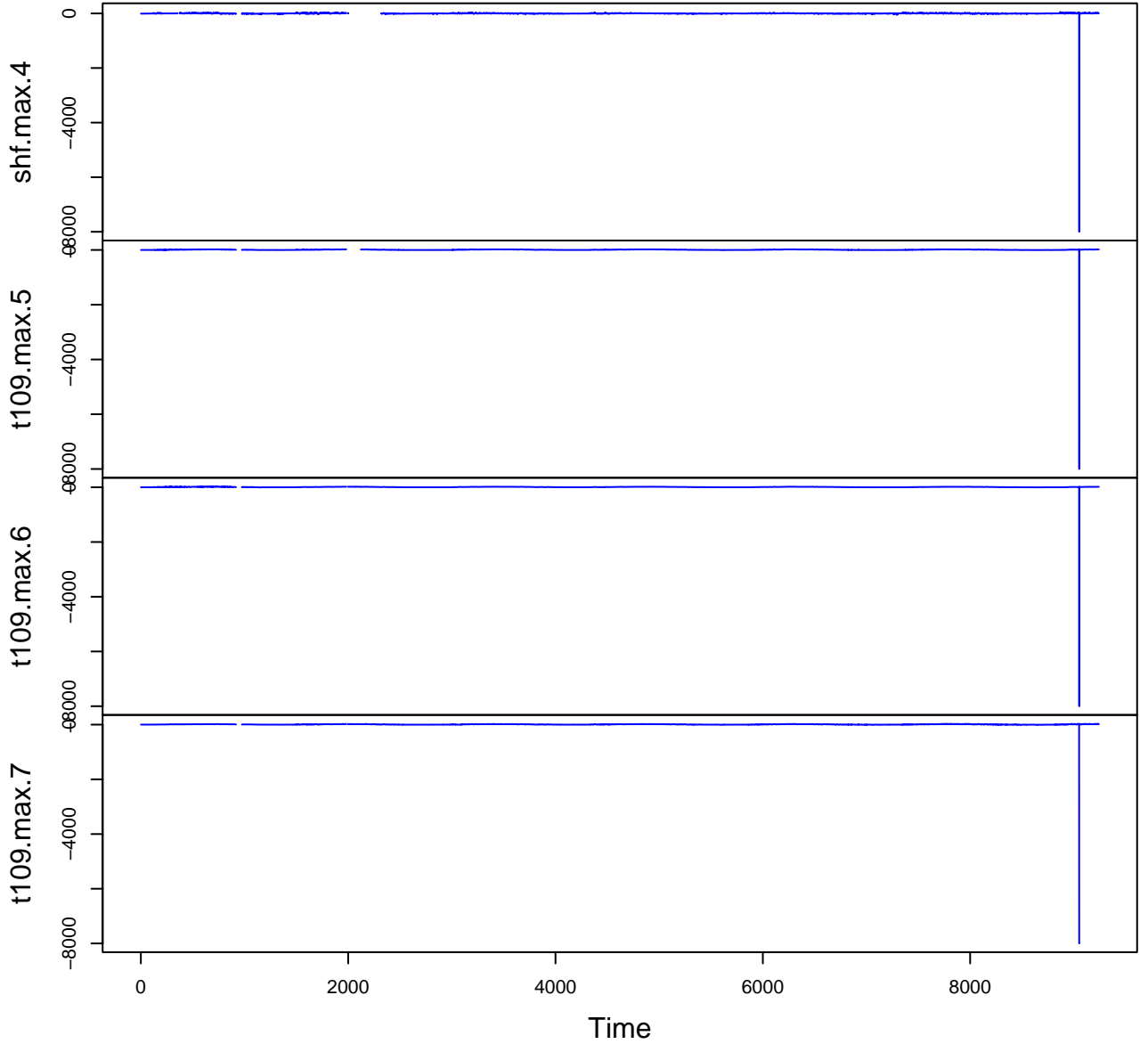
HF113-04 Plot 9



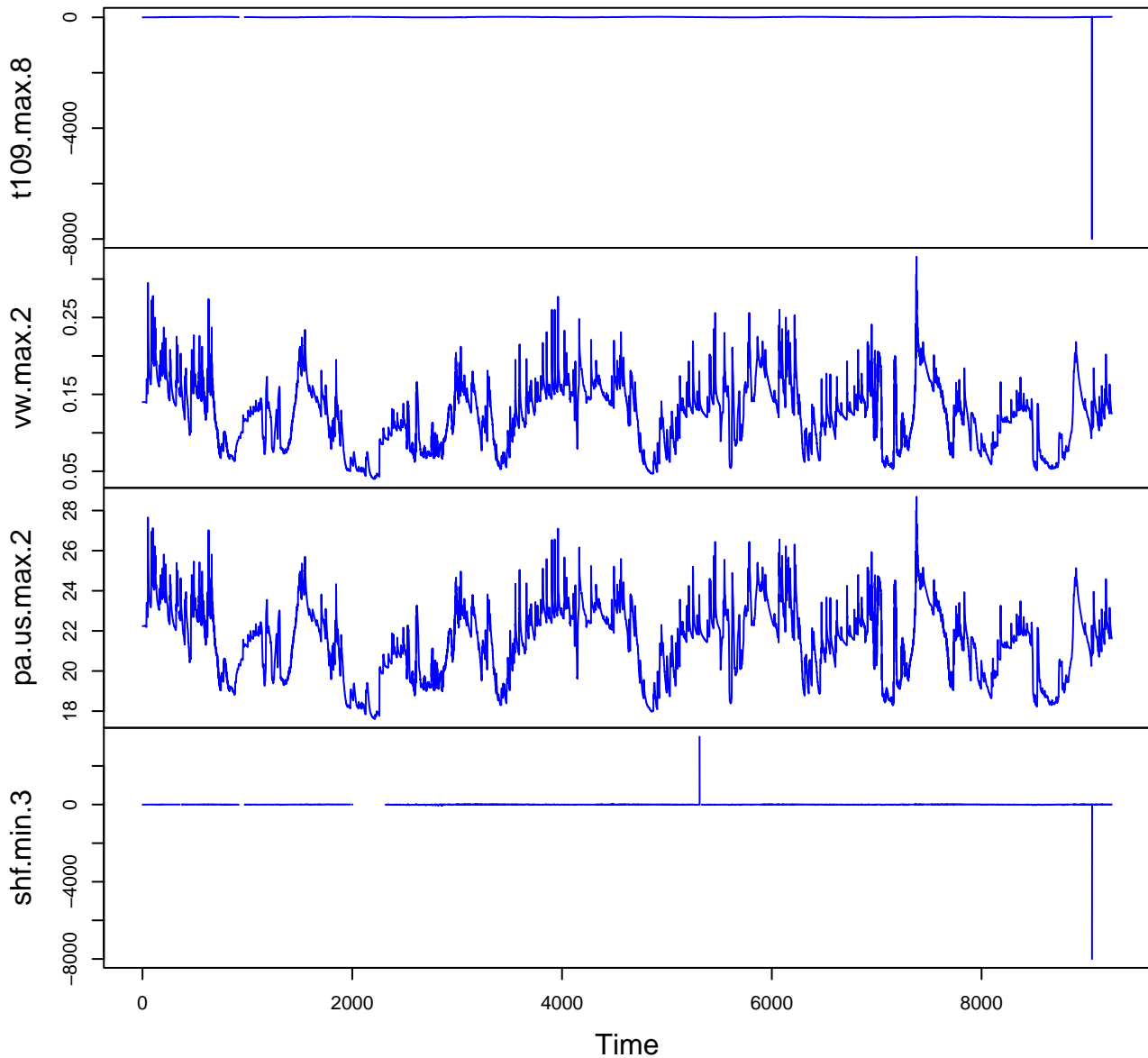
HF113-04 Plot 10



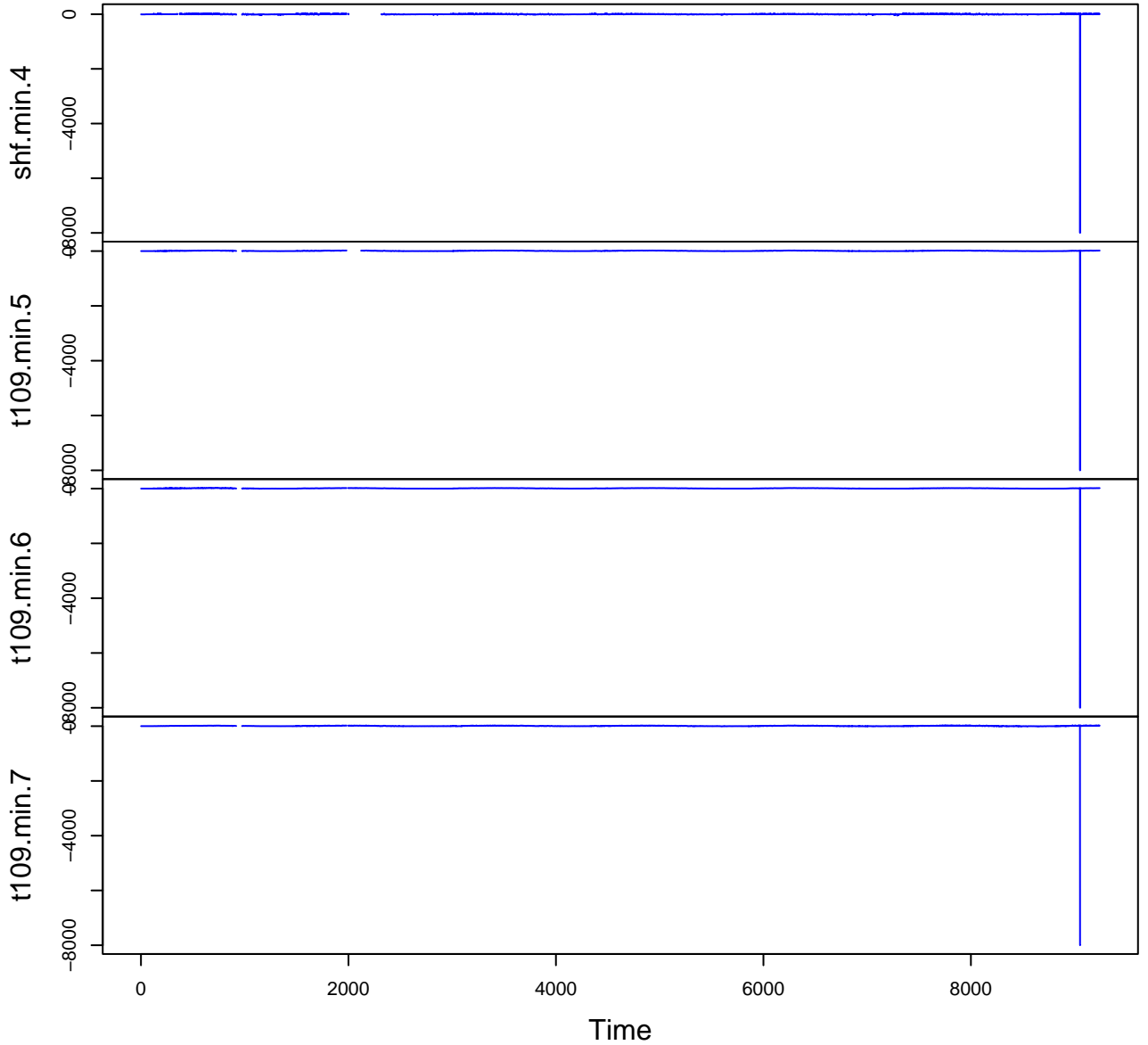
HF113-04 Plot 11



HF113-04 Plot 12



HF113-04 Plot 13



HF113-04 Plot 14

