Harvard Forest Data Archive HF240-01

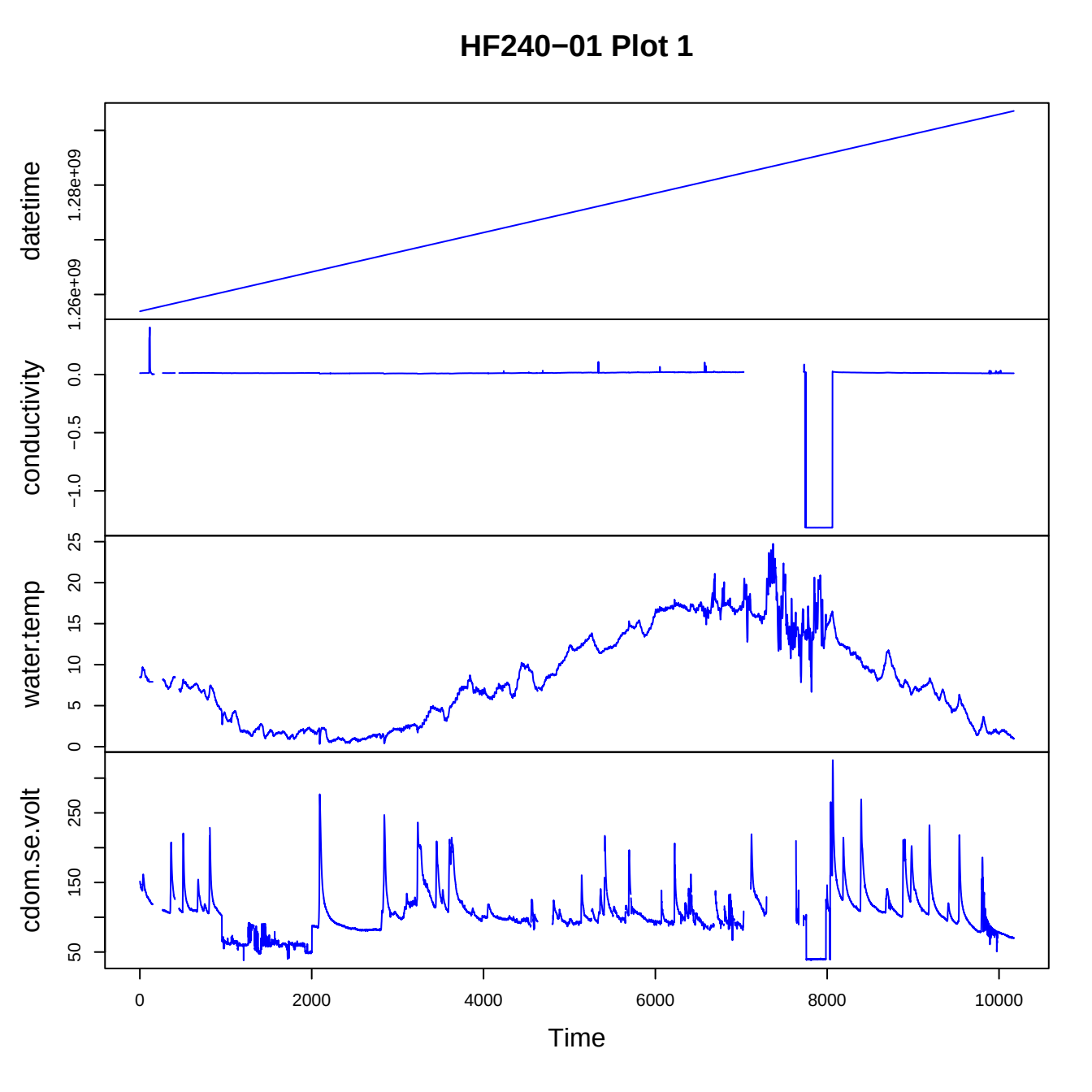
Data File:

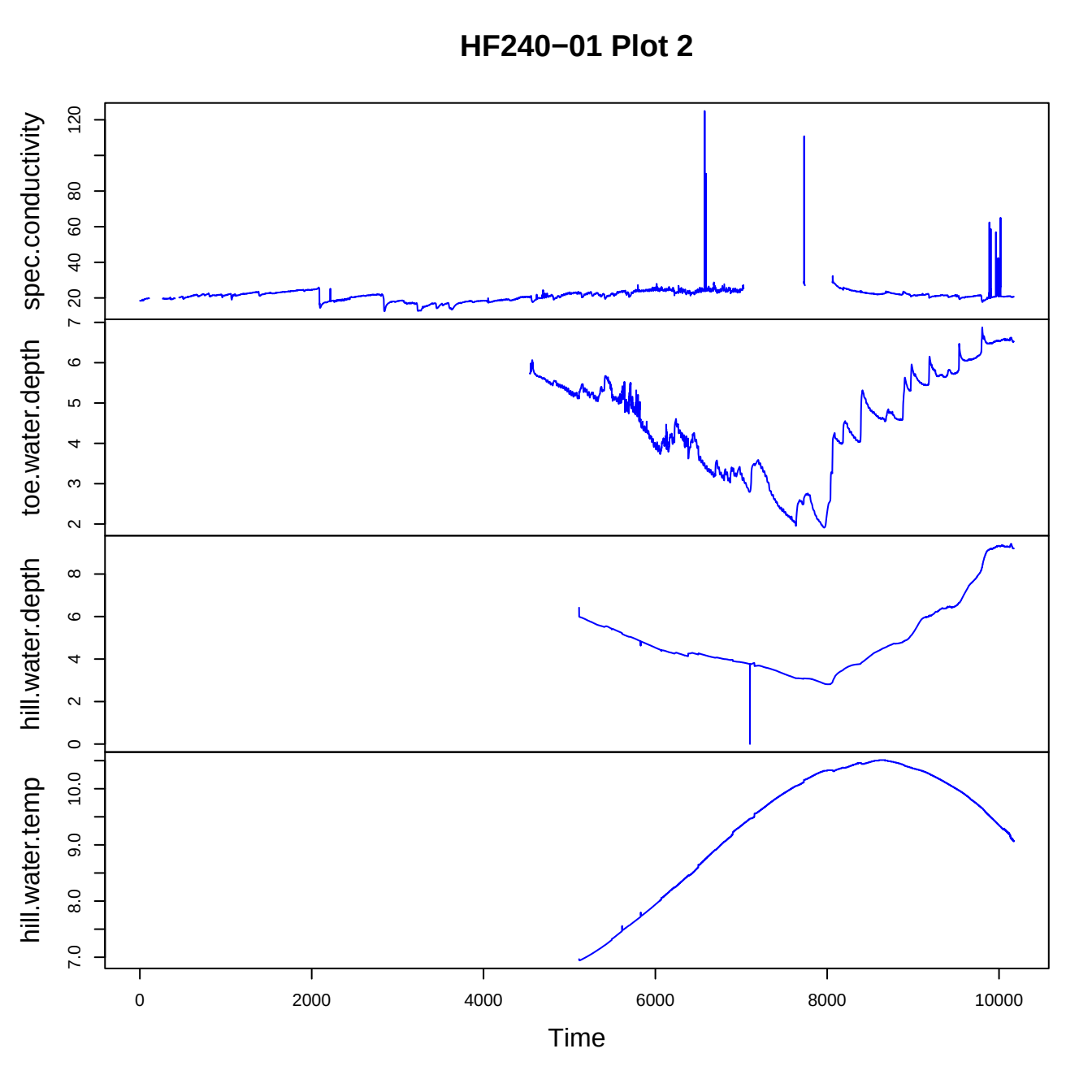
Name = hf240-01-water-chemistry.csv
Description = water chemistry and well levels
Rows = 40687 Columns = 13
MD5 checksum = d4d81180669a9615ce027e2879e4e056

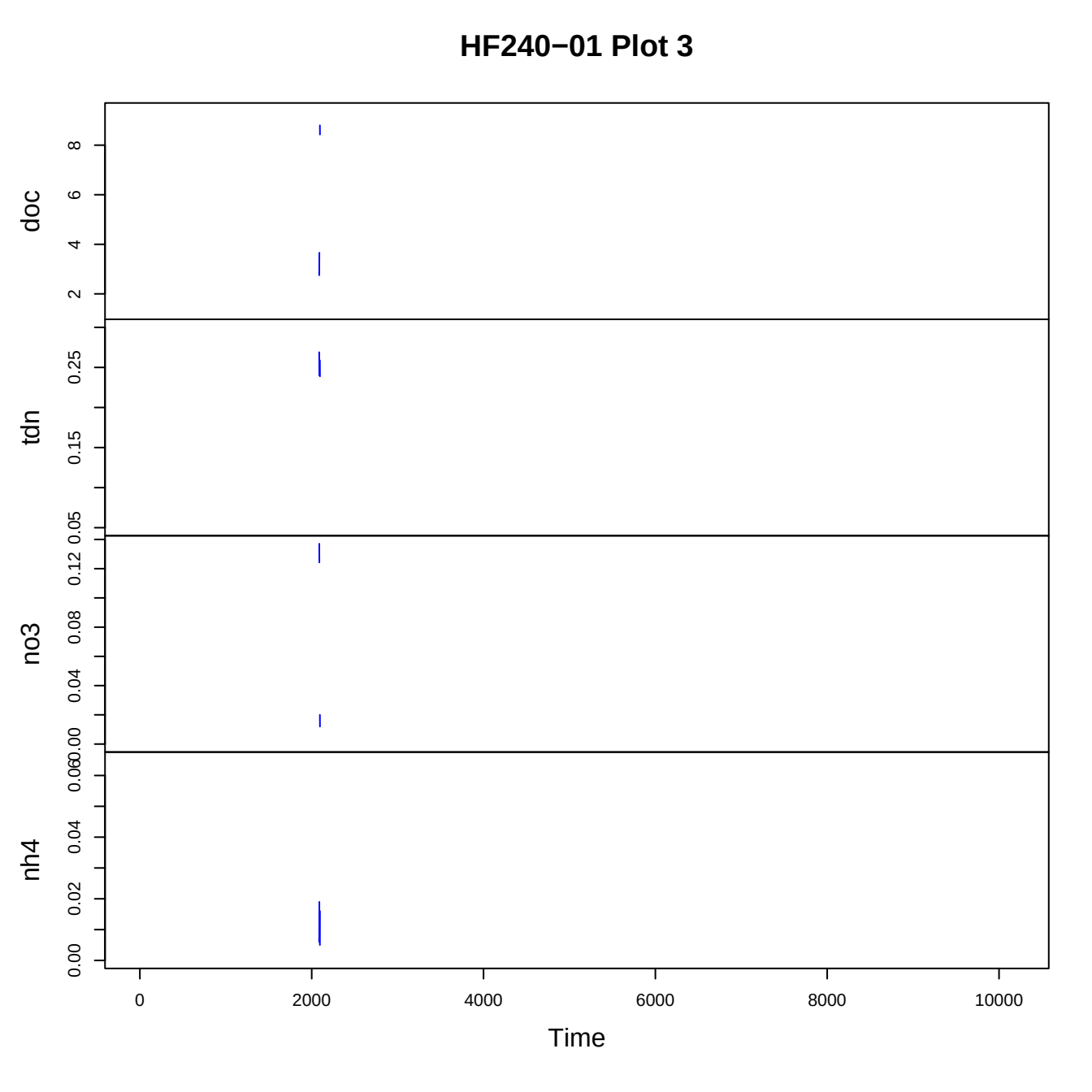
Variables:

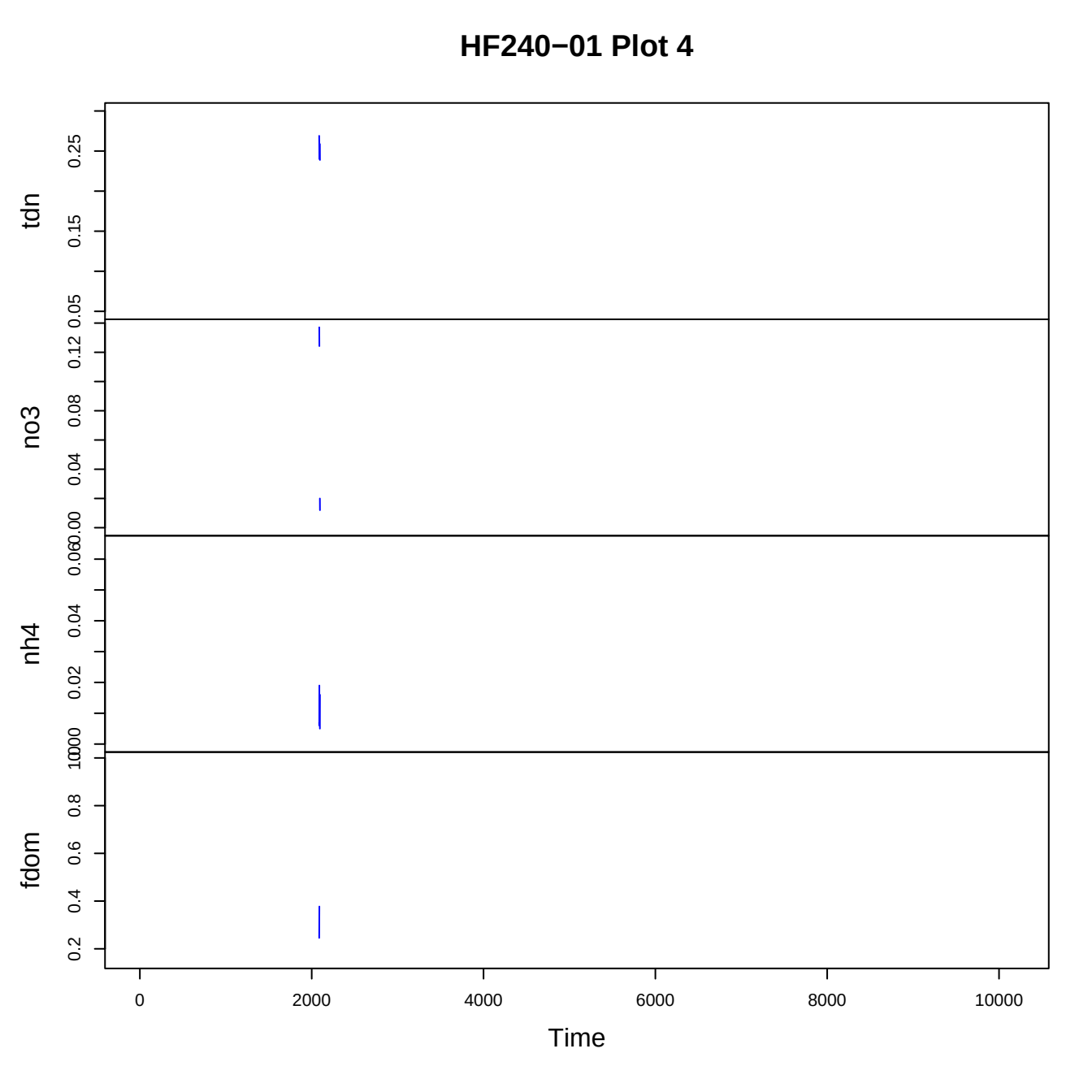
datetime = date and time of collection
conductivity = conductivity (millisiemenPerCentimeter)
water.temp = water temperature (celsius)
cdom.se.volt = fluorescence of colored dissolved organic matter
   measured by Turner
 Cyclops probe. Fluorescence is measured in the
   range of 0-5000mV and calibrated against grab
      samples.
   (millivolt)
spec.conductivity = conductivity normalized for 25 deg C
   (microSiemen)
toe.water.depth = water level in toe slope well (foot)
hill.water.depth = water level in hill slope well (foot)
hill.water.temp = water temperature in the well (celsius)
doc = dissolved organic matter measured using Shimadzu TOC analyzer.
   All samples
were filtered at 0.22um. (milligramsPerLiter)
tdn = total dissolved nitrogen measured using Shimadzu TOC analyzer.
   All samples
   were filtered at 0.22 um. (milligramsPerLiter)
no3 = nitrate (microgramsPerLiter)
nh4 = ammonium (microgramsPerLiter)
fdom = fluorescence of dissolved organic matter measured by Cary
   Varian Eclipse.
 Samples were excited at 470 nm and their emissions
   at 370 nm recorded and converted to Raman
      units. (waveNumber)

Variable	Min	Median	Mean	Max	NAs
datetime	2009-10-30T13:30		2010-12-28T09:00		0
conductivity	-1.317	0.013	-0.031	0.410	3515
water.temp	0.299	7.433	8.348	24.920	717
cdom.se.volt	37.940	101.400	104.695	326.600	3926
spec.conduct	12.060	21.517	21.261	124.952	5054
toe.water.de	1.909	4.693	4.534	6.882	18199
hill.water.d	0.000	4.412	4.935	9.427	20445
hill.water.t	6.943	9.660	9.302	10.510	20448
doc	1.067	4.630	4.881	16.759	40562
tdn	0.016	0.158	0.170	0.381	40561
no3	0.000	0.022	0.041	0.168	40573
nh4	0.000	0.009	0.013	0.075	40574
fdom	0.136	0.472	0.504	1.673	40580


HF240−01 Plot 1
datetime
1.26e+09
1.28e+09
conductivity
−1.0
−0.5
0.0
water.temp
0
5
10
15
20
25
cdom.se.volt
50
150
250
0
2000
4000
6000
8000
10000
Time


HF240−01 Plot 2
spec.conductivity
toe.water.depth
hill.water.depth
hill.water.temp
Time
0
2000
4000
6000
8000
10000


HF240−01 Plot 3
doc
tdn
no3
nh4
2
4
6
8
0.05
0.15
0.25
0.00
0.04
0.08
0.12
0.00
0.02
0.04
0.06
0
2000
4000
6000
8000
10000
Time


HF240−01 Plot 4
tdn
no3
nh4
fdom
0.25
0.15
0.05
0.12
0.08
0.04
0.00
0.06
0.04
0.02
0.00
1.0
0.8
0.6
0.4
0.2
0
2000
4000
6000
8000
10000
Time