

Supplemental File for “The Niwot Ridge Subalpine Forest US-NR1 AmeriFlux site – Part I: Data acquisition and site record-keeping”
by S. P. Burns et al.

README for: USNR1_logger_code.zip

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This is a listing of the archive of data logger programs used at the Niwot Ridge US-NR1 AmeriFlux site. The order of logger programs follows Table 2 within the paper.

For more info on the programs see:

http://urquell.colorado.edu/docs_tower/tower_logger_info.html

which is also saved as a pdf within this zip archive as:

88588 Apr 7 13:05 README_usnrl_data_logger_program_web_summary.pdf

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Listing of data logger programs:

The files are listed in approximately reverse chronological order. For the older files, the file order, file names, and associated dates are less certain compared to the newer files. There are two “MISC” directories: “MISC_cr3000” contains files written for a CR3000 that was never deployed at the site, and “MISC” contains logger programs that were not part of the primary set of CR23X data loggers used at the site.

campbell_logger_code_archive/FAST:

```
-rwxr-xr-x 1 sburns aster 9913 Nov  2 14:44 fast_24.csi*
-rwxr-xr-x 1 sburns aster 9372 Jul 21 2015 fast_23.csi*
-rwxr-xr-x 1 sburns aster 9874 Jan  7 2014 fast_22.csi*
-rwxr-xr-x 1 sburns aster 9192 Nov 29 2013 fast_21.csi*
-rwxr-xr-x 1 sburns aster 8861 Nov 29 2013 fast_20.csi*
-rwxr-xr-x 1 sburns aster 9148 Nov 29 2013 fast_20a.csi*
-rwxr-xr-x 1 sburns aster 7539 Oct 24 2013 fast_19.csi*
-rwxr-xr-x 1 sburns aster 7878 Oct  8 2013 fast_18.csi*
-rwxr-xr-x 1 sburns aster 7470 May  7 2013 fast_17.csi*
-rwxr-xr-x 1 sburns aster 7400 Mar 28 2013 fast_16.csi*
-rwxr-xr-x 1 sburns aster 6770 Nov 15 2011 fast_15.csi*
```

```

-rwxr-xr-x 1 sburns aster 7779 Nov  4 2011 fast_14.csi*
-rwxr-xr-x 1 sburns aster 7991 Oct 22 2011 fast_13.csi*
-rwxr-xr-x 1 sburns aster 9058 May 17 2010 fast_12.csi*
-rwxr-xr-x 1 sburns aster 9444 May  5 2010 fast_11.csi*
-rwxr-xr-x 1 sburns aster 8886 Sep 27 2009 fast_10.csi*
-rwxr-xr-x 1 sburns aster 10769 Jul 10 2009 fast_09.csi*
-rwxr-xr-x 1 sburns aster 10661 Jun 25 2009 fast_08.csi*
-rwxr-xr-x 1 sburns aster 10565 Oct 24 2008 fast_07.csi*
-rwxr-xr-x 1 sburns aster 10129 Sep 30 2008 fast_06.csi*
-rwxr-xr-x 1 sburns aster 9556 Sep 26 2007 fast_05.csi*
-rwxr-xr-x 1 sburns aster 9632 Apr  3 2007 fast_04.csi*
-rwxr-xr-x 1 sburns aster 9471 Nov 26 2006 fast_03.csi*
-rwxr-xr-x 1 sburns aster 9391 Oct 24 2006 fast_02.csi*
-rwxr-xr-x 1 sburns aster 9252 Oct 16 2006 fast_01.csi*
-rw-rw-r-- 1 sburns aster 9335 May 26 2005 FAST2X10.CSI
-rw-rw-r-- 1 sburns aster 9088 Feb 11 2005 FAST23X9.CSI
-rw-rw-r-- 1 sburns aster 8895 Oct  8 2004 FAST23X8.CSI
-rw-rw-r-- 1 sburns aster 8815 Oct  8 2004 FAST23X7.CSI
-rw-rw-r-- 1 sburns aster 8503 Oct 22 2001 FAST23X5.CSI
-rw-rw-r-- 1 sburns aster 8245 Jan 15 2002 FAST23X4.CSI
-rw-rw-r-- 1 sburns aster 7083 Dec  3 2000 FAST23X3.CSI
-rw-rw-r-- 1 sburns aster 6690 Jan 15 2002 FAST23X2.CSI
-rw-rw-r-- 1 sburns aster 5009 Sep 26 2000 FAST23X.CSI
-rw-rw-r-- 1 sburns aster 5125 Aug 29 2000 FAST30.CSI
-rw-rw-r-- 1 sburns aster 7450 Jan  5 1999 FAST23XB.CSI
-rw-rw-r-- 1 sburns aster 1937 Jan 16 1998 FAST.CSI

```

campbell_logger_code_archive/PROF:

```

-rwxr-xr-x 1 sburns aster 15863 Jul 29 2009 prf_02.csi*
-rwxr-xr-x 1 sburns aster 15561 Nov 19 2007 prf_01.csi*
-rw-rw-r-- 1 sburns aster 15366 Jun  2 2004 PROF30B_new2.CSI
-rwxrwxr-x 1 sburns aster 17693 Aug 15 2003 PROF30B_new1.CSI*
-rw-rw-r-- 1 sburns aster 17695 Jul  7 2002 PROF30B.CSI
-rw-rw-r-- 1 sburns aster 14054 Aug  5 2002 PROF4TB.CSI
-rw-rw-r-- 1 sburns aster 14054 Aug  5 2002 PROF4T.CSI
-rw-rw-r-- 1 sburns aster 12213 Jul 18 2001 PROF14B.CSI
-rw-rw-r-- 1 sburns aster 13155 Aug  2 2001 PROF14C.CSI
-rw-rw-r-- 1 sburns aster 14000 May  3 2000 PROF30.CSI
-rw-rw-r-- 1 sburns aster 9505 Jun 14 1999 PROF12T.CSI

```

campbell_logger_code_archive/MET:

```

-rwxr-xr-x 1 sburns aster 15601 Dec 11 2014 met_10.csi*
-rwxr-xr-x 1 sburns aster 14917 Nov  6 2014 met_09.csi*
-rwxr-xr-x 1 sburns aster 12053 Mar 16 2011 met_07.csi*
-rwxr-xr-x 1 sburns aster 11779 Dec 13 2007 met_06.csi*
-rwxr-xr-x 1 sburns aster 11710 Sep 26 2007 met_05.csi*

```

```

-rwxr-xr-x 1 sburns aster 11250 Jun 14 2007 met_04.csi*
-rwxr-xr-x 1 sburns httpd 10481 May 30 2007 met_03.csi*
-rwxr-xr-x 1 sburns httpd 10457 May 30 2007 met_02.csi*
-rwxr-xr-x 1 sburns aster 9838 Apr 23 2007 met_01.csi*
-rw-rw-r-- 1 sburns aster 8744 May 15 2003 MET30D_new1.CSI
-rw-rw-r-- 1 sburns aster 8800 May 13 2003 MET30D.CSI
-rw-rw-r-- 1 sburns aster 7732 Jul 23 2001 MET30C.CSI
-rw-rw-r-- 1 sburns aster 6945 Oct 16 2000 MET30B.CSI
-rw-rw-r-- 1 sburns aster 6985 Oct 16 2000 MET30A.CSI
-rw-rw-r-- 1 sburns aster 6161 Jul 5 2000 MET30A_ver1.CSI
-rw-rw-r-- 1 sburns aster 6486 Jan 12 2000 MET30.CSI
-rw-rw-r-- 1 sburns aster 6307 Feb 25 2003 MET21X.CSI
-rw-rw-r-- 1 sburns aster 6131 Sep 21 1999 MET.CSI

```

campbell_logger_code_archive/SOIL:

```

-rwxr-xr-x 1 sburns aster 12138 Oct 7 2008 soil_03.csi*
-rwxr-xr-x 1 sburns aster 7475 Oct 7 2008 soil_03c.csi*
-rwxr-xr-x 1 sburns aster 7353 Oct 7 2008 soil_03b.csi*
-rwxr-xr-x 1 sburns aster 14379 Oct 1 2008 soil_03_oct1.csi*
-rwxr-xr-x 1 sburns aster 10953 Oct 26 2007 soil_02.csi*
-rwxr-xr-x 1 sburns aster 10584 Oct 16 2005 soil_01.csi*
-rw-rw-r-- 1 sburns aster 9659 Jun 30 2005 SOILSNO2.CSI
-rw-rw-r-- 1 sburns aster 3138 Oct 19 2004 SOILHYD.CSI
-rw-rw-r-- 1 sburns aster 2449 Oct 14 2004 SOILHYD2.CSI
-rw-rw-r-- 1 sburns aster 4522 Dec 10 2004 SOILHY.CSI
-rw-rw-r-- 1 sburns aster 9309 Oct 29 2003 SOILSNOW.CSI
-rw-rw-r-- 1 sburns aster 6510 Aug 3 2003 SOIL23XC.CSI
-rw-rw-r-- 1 sburns aster 7073 May 15 2003 SOIL23XB.CSI
-rw-rw-r-- 1 sburns aster 13007 Jun 22 1999 SOIL_TDP.CSI
-rw-rw-r-- 1 sburns aster 13007 Jun 22 1999 SOIL2TDP.CSI
-rw-rw-r-- 1 sburns aster 12203 Jul 22 1998 SOILSAP.CSI
-rw-rw-r-- 1 sburns aster 5999 Nov 10 1998 SOIL.CSI
-rw-rw-r-- 1 sburns aster 10805 Jul 7 1998 SOILTEMP.CSI
-rw-rw-r-- 1 sburns aster 3968 Jun 8 1998 SOIL23.CSI

```

campbell_logger_code_archive/CNR:

```

-rwxr-xr-x 1 sburns aster 9036 Nov 19 2007 rad_03.csi*
-rwxr-xr-x 1 sburns aster 8856 Sep 13 2006 rad_02.csi*
-rwxr-xr-x 1 sburns aster 7738 Dec 21 2005 rad_01.csi*
-rwxr-xr-x 1 sburns aster 7964 Dec 16 2005 rad_01_old.csi*
-rw-rw-r-- 1 sburns aster 6361 Oct 4 2004 RAD.CSI
-rw-rw-r-- 1 sburns aster 5128 Jun 4 2004 CNR30B.CSI
-rw-rw-r-- 1 sburns aster 4873 Jun 2 2003 CNR30.CSI
-rw-rw-r-- 1 sburns aster 4873 Jul 5 2002 CNR30_ver2.CSI
-rw-rw-r-- 1 sburns aster 4603 Mar 1 2000 CNR30_ver1.CSI
-rw-rw-r-- 1 sburns aster 4708 Sep 21 1999 CNR3.CSI

```

```
-rw-rw-r-- 1 sburns aster 4642 Aug 25 1999 CNR2.CSI  
-rw-rw-r-- 1 sburns aster 3479 Aug 25 1999 CNR21X.CSI  
-rw-rw-r-- 1 sburns aster 2866 Jul  8 1999 CNR1.CSI
```

campbell_logger_code_archive/UC:

```
-rwxr-xr-x 1 sburns aster 5162 Sep 26 2014 uc_06.csi*  
-rwxr-xr-x 1 sburns aster 4657 Nov  7 2013 uc_05.csi*  
-rwxr-xr-x 1 sburns aster 5621 Oct 24 2013 uc_04.csi*  
-rwxr-xr-x 1 sburns aster 4840 Oct 24 2013 uc_04b.csi*  
-rwxr-xr-x 1 sburns aster 8201 Aug  4 2009 uc_03.csi*  
-rwxr-xr-x 1 sburns aster 8082 Jul 29 2009 uc_02.csi*  
-rwxr-xr-x 1 sburns aster 7991 Aug 11 2008 uc_01.csi*  
-rw-rw-r-- 1 sburns aster 10165 Jul 14 2005 UC01.CSI  
-rw-rw-r-- 1 sburns aster 8796 Jan 20 2005 TWOSONIC.CSI  
-rw-rw-r-- 1 sburns aster 8286 Nov  9 2004 TWOSONIC_ver4.CSI  
-rw-rw-r-- 1 sburns aster 8485 Jun  5 2003 TWOSONIC_ver3.CSI  
-rw-rw-r-- 1 sburns aster 8485 Oct  6 2002 TWOSONIC_ver2.CSI  
-rw-rw-r-- 1 sburns aster 3595 Jan 24 2002 FAST23UC.CSI  
-rw-rw-r-- 1 sburns aster 5125 Sep  7 2000 TWOSONIC_ver1.CSI  
-rw-rw-r-- 1 sburns aster 5712 Feb  6 2001 FASTUC.CSI
```

campbell_logger_code_archive/TC:

```
-rwxr-xr-x 1 sburns aster 7481 Mar 21 2014 tc_13.csi*  
-rwxr-xr-x 1 sburns aster 8737 Oct 13 2006 tc_12.csi*  
-rwxr-xr-x 1 sburns aster 7331 Oct 12 2006 tc_11.csi*  
-rwxr-xr-x 1 sburns aster 7208 Oct  6 2006 tc_10.csi*  
-rwxr-xr-x 1 sburns aster 7711 Oct  5 2006 tc_09.csi*  
-rwxr-xr-x 1 sburns aster 7300 Sep 29 2006 tc_08.csi*  
-rwxr-xr-x 1 sburns aster 6477 Sep 24 2006 tc_07.csi*  
-rwxr-xr-x 1 sburns aster 6783 Aug 31 2006 tc_06.csi*  
-rwxr-xr-x 1 sburns aster 6641 Aug 29 2006 tc_05.csi*  
-rwxr-xr-x 1 sburns aster 6107 Aug 24 2006 tc_04.csi*  
-rwxr-xr-x 1 sburns aster 5092 Aug 22 2006 tc_03.csi*  
-rwxr-xr-x 1 sburns aster 5722 Sep 15 2005 tc_02.csi*  
-rw-rw-r-- 1 sburns aster 7019 Jul 19 2005 tc_01.csi
```

campbell_logger_code_archive/MRS:

```
-rwxr-xr-x 1 sburns aster 13340 Sep 23 2008 mrs_03b.csi*  
-rwxr-xr-x 1 sburns aster 13265 Aug 11 2008 mrs_03a.csi*  
-rwxr-xr-x 1 sburns aster 13193 Oct  4 2007 mrs_02.csi*  
-rwxr-xr-x 1 sburns aster 13279 Oct 26 2007 mrs_02a.csi*  
-rwxr-xr-x 1 sburns aster 12907 Oct 12 2006 mrs_01.csi*  
-rw-rw-r-- 1 sburns aster 12758 Nov  8 2001 MRSTEMP.CSI
```

campbell_logger_code_archive/NCARTC:

```

-rwxr-xr-x 1 sburns aster 2939 May  1 2015 nctc_05.csi*
-rwxr-xr-x 1 sburns aster 4839 Nov  6 2014 nctc_04.csi*
-rwxr-xr-x 1 sburns aster 4705 Apr 24 2014 nctc_03.csi*
-rwxr-xr-x 1 sburns aster 2363 Oct 25 2005 nctc_02.csi*
-rwxr-xr-x 1 sburns aster 2770 Aug 29 2005 nctc_01.csi*
-rw-rw-r-- 1 sburns aster 2363 Oct  3 2004 NCARTC.CSI
-rw-rw-r-- 1 sburns aster 2160 Aug 20 2002 NCARTC_ver1.CSI

```

campbell_logger_code_archive/UCB:

```

-rwxr-xr-x 1 sburns aster 9463 Nov  8 2012 ucb_17.csi*
-rwxr-xr-x 1 sburns aster 8474 Oct 31 2012 ucb_16.csi*
-rwxr-xr-x 1 sburns aster 8158 Nov  4 2011 ucb_15.csi*
-rwxr-xr-x 1 sburns aster 7716 Oct  5 2011 ucb_14.csi*
-rwxr-xr-x 1 sburns aster 9011 Sep 20 2010 ucb_13.csi*
-rwxr-xr-x 1 sburns aster 8788 Aug 11 2010 ucb_12.csi*
-rwxr-xr-x 1 sburns aster 8700 Nov  6 2009 ucb_11.csi*
-rwxr-xr-x 1 sburns aster 5185 Feb 22 2008 ucb10x_2.csi*
-rwxr-xr-x 1 sburns aster 5111 Feb 21 2008 ucb10x_1.csi*
-rwxr-xr-x 1 sburns aster 8088 Oct 31 2008 ucb_10.csi*
-rwxr-xr-x 1 sburns aster 7472 Aug 11 2008 ucb_09.csi*
-rwxr-xr-x 1 sburns aster 6299 Jul 17 2007 ucb_08.csi*
-rwxr-xr-x 1 sburns aster 5595 Sep 20 2006 ucb_07_notused.csi*
-rwxr-xr-x 1 sburns aster 6190 Oct  1 2006 ucb_07.csi*
-rwxr-xr-x 1 sburns aster 5445 Sep 19 2006 ucb_06.csi*
-rwxr-xr-x 1 sburns aster 4852 Oct 25 2005 ucb_05.csi*
-rwxr-xr-x 1 sburns aster 4783 Oct 15 2005 ucb_04.csi*
-rwxr-xr-x 1 sburns aster 4607 Oct  8 2005 ucb_03.csi*
-rwxr-xr-x 1 sburns aster 4053 Sep 20 2005 ucb_02.csi*
-rw-rw-r-- 1 sburns aster 3503 Jul 21 2005 ucb_01.csi

```

campbell_logger_code_archive/MARK:

```

-rwxr-xr-x 1 sburns aster 5010 Nov  2 09:27 mark_11.csi*
-rwxr-xr-x 1 sburns aster 4855 Oct 13 13:52 mark_10.csi*
-rwxr-xr-x 1 sburns aster 4812 Sep 21 2015 mark_09.csi*
-rwxr-xr-x 1 sburns aster 4728 Sep  4 2015 mark_08.csi*
-rwxr-xr-x 1 sburns aster 4358 Aug 14 2015 mark_07.csi*
-rwxr-xr-x 1 sburns aster 4260 Aug  6 2015 mark_06.csi*
-rwxr-xr-x 1 sburns aster 4108 Jul 21 2015 mark_05.csi*
-rwxr-xr-x 1 sburns aster 4088 Jul 16 2015 mark_04.csi*
-rwxr-xr-x 1 sburns aster 3901 Jun 24 2015 mark_03.csi*
-rwxr-xr-x 1 sburns aster 3002 Nov  6 2014 mark_02.csi*
-rwxr-xr-x 1 sburns aster 2761 Oct 30 2014 mark_01.csi*

```

campbell_logger_code_archive/MISC_cr3000:

* code used with CPEC200 and CR3000

```
-rwxr-xr-x 1 sburns aster 159554 Oct 24 2013 Cpec200_v1_4_01_2.cr3*
-rwxr-xr-x 1 sburns aster 160310 Oct 23 2013 Cpec200_v1_4_01_3.cr3*
-rw-r--r-- 1 sburns aster 160586 Jul 11 2014 Cpec200_v1_4_01_4.cr3
-rw-r--r-- 1 sburns aster 160654 Jul 11 2014 Cpec200_v1_4_01_5.cr3
-rw-r--r-- 1 sburns aster 160654 Jul 11 2014 Cpec200_v1_4_01_6.cr3
-rw-r--r-- 1 sburns aster 160655 Jul 11 2014 Cpec200_v1_4_01_7.cr3
-rw-r--r-- 1 sburns aster 160586 Jul 17 2014 Cpec200_v1_4_01_8.cr3
-rw-r--r-- 1 sburns aster 160619 Jul 30 2014 Cpec200_v1_4_01_9.cr3
```

* Similar to FAST CR23X logger code, but for a CR3000 data logger:

```
-rw-r--r-- 1 sburns aster 4747 Aug 31 2014 Nr1_fast_0_0_01.cr3
-rw-r--r-- 1 sburns aster 4968 Sep  3 2014 Nr1_fast_0_0_02.cr3
-rw-r--r-- 1 sburns aster 5017 Sep 15 2014 Nr1_fast_0_0_03.cr3
-rw-r--r-- 1 sburns aster 5021 Sep 12 2014 Nr1_fast_0_0_03_ver1.cr3
-rw-r--r-- 1 sburns aster 4638 Aug  3 2014 Nr1_fast.cr3
```

campbell_logger_code_archive/MISC:

* these are various other misc logger programs that have been used at the site.

```
-rwxr-xr-x 1 sburns aster 5061 Sep 21 2015 noah_150921.dld*
-rwxr-xr-x 1 sburns aster 28564 Nov 16 2007 noah_m.csi*
-rwxr-xr-x 1 sburns aster 6246 Jun 23 2004 brant21x.csi*
drwxrwxr-x 6 sburns aster 4096 Jan 14 2004 Data.jed/
-rwxrwxr-x 1 sburns aster 4019 Jul  3 2003 21sonic.csi*
-rw-rw-r-- 1 sburns aster 6901 Nov  9 2001 AUTODEND.CSI
-rw-rw-r-- 1 sburns aster 10584 Sep 18 2001 MTOWER.CSI
-rw-rw-r-- 1 sburns aster 7554 Aug  1 2001 AUTODEN2.CSI
-rw-rw-r-- 1 sburns aster 2022 Jul 16 2001 PARBALL.CSI
-rw-rw-r-- 1 sburns aster 1832 Jun  2 2000 TRAC.CSI
-rw-rw-r-- 1 sburns aster 10674 Mar 13 2000 3D_7500.CSI
-rw-rw-r-- 1 sburns aster 6307 Aug 30 1999 LIGHT2.CSI
-rw-rw-r-- 1 sburns aster 32016 Aug 19 1999 HREA2.CSI
-rw-rw-r-- 1 sburns aster 13007 Jun 22 1999 SOIL2TDP.CSI
-rw-rw-r-- 1 sburns aster 13007 Jun 22 1999 SOIL_TDP.CSI
-rw-rw-r-- 1 sburns aster 6131 May 26 1999 LIGHT.CSI
-rw-rw-r-- 1 sburns aster 5999 Nov 10 1998 SOIL.CSI
-rw-rw-r-- 1 sburns aster 12203 Jul 22 1998 SOILSAP.CSI
-rw-rw-r-- 1 sburns aster 10805 Jul  7 1998 SOILTEMP.CSI
-rw-rw-r-- 1 sburns aster 3968 Jun  8 1998 SOIL23.CSI
-rw-rw-r-- 1 sburns aster 30943 Apr 22 1998 HREA.CSI
```