

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_OPS_aster.zip

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This is an archive of the OPS files used with the ASTER/ADAM-ATI and ASTER/NDAQ software. These files are used by `prep` to tell the ASTER software which configuration to use.

Each OPS configuration is in a directory with the “config” files. For example, for OPS66 these files are:

```
dir /usr/local/aster/projects/NIWOT/ops66/

total 84
drwxr-xr-x  2 sburns aster 4096 Oct  8  2013 ./
drwxr-xr-x 92 sburns aster 4096 Oct 31  2014 ../
-rw-r--r--  1 sburns aster 1465 Dec 10  2012 archive_config
-rw-r--r--  1 sburns aster 4368 May  7  2013 channel_config
-rw-r--r--  1 sburns aster 2735 Oct  8  2013 covar.config
-rw-r--r--  1 sburns aster  339 Jun 18  2004 ingest.conf
-rw-r--r--  1 sburns aster 7223 Oct  8  2013 prep.config
```

A key file is “ops.config” which looks like this:

```
more /usr/local/aster/projects/NIWOT/ops.config

ops1      1998 sep 14 00:00:00 - 1999 mar 17 17:00:00
ops1.4    1999 mar 17 17:00:00 - 1999 jun 21 17:00:00
ops1.5    1999 jun 21 17:00:00 - 2002 may 10 11:00:00
ops2      2002 may 10 11:00:00 - 2002 jul 07 12:00:00
ops3      2002 jul 07 12:00:00 - 2002 sep 04 17:00:00
ops4      2002 sep 04 17:00:00 - 2002 nov 22 14:00:00
ops5      2002 nov 22 14:00:00 - 2003 feb 19 16:00:00
ops6      2003 feb 19 16:00:00 - 2003 jun 10 16:00:00
ops7      2003 jun 10 16:00:00 - 2003 jun 30 18:00:00
ops8      2003 jun 30 18:00:00 - 2003 oct 17 16:00:00
```

ops9	2003 oct 17 16:00:00	-	2003 oct 21 11:00:00	
ops10	2003 oct 21 11:00:00	-	2004 jan 02 18:30:00	
ops11	2004 jan 02 18:30:00	-	2004 may 06 15:40:00	
ops12	2004 may 06 15:40:00	-	2004 jun 02 21:30:00	
ops13	2004 jun 02 21:30:00	-	2004 jun 04 19:00:00	
ops14	2004 jun 04 19:00:00	-	2004 oct 05 17:00:00	
ops15	2004 oct 05 17:00:00	-	2004 oct 08 21:12:00	
ops16	2004 oct 08 21:12:00	-	2004 oct 09 20:30:00	
ops17	2004 oct 09 20:30:00	-	2004 oct 10 23:07:00	
ops18	2004 oct 10 23:07:00	-	2004 nov 02 06:30:00	
ops19	2004 nov 02 06:30:00	-	2004 nov 03 20:44:00	
ops20	2004 nov 03 20:44:00	-	2005 feb 11 21:04:00	
ops21	2005 feb 11 21:04:00	-	2005 may 29 15:30:00	
ops22	2005 may 29 15:30:00	-	2005 jun 01 17:45:00	
ops23	2005 jun 01 17:45:00	-	2005 jun 07 17:15:00	
ops24	2005 jun 07 17:15:00	-	2005 oct 28 20:30:00	
ops25	2005 oct 28 20:30:00	-	2006 jan 03 18:57:02	
ops26	2006 jan 03 18:57:02	-	2006 jul 12 18:39:00	
ops27	2006 jul 12 18:39:01	-	2006 jul 17 22:25:00	
ops28	2006 jul 12 18:39:01	-	2006 sep 03 19:13:00	
ops28	2006 jul 12 18:39:01	-	2006 sep 03 19:13:00	
ops29	2006 sep 03 19:13:00	-	2006 oct 01 20:30:00	
ops30	2006 oct 01 20:30:00	-	2006 oct 06 21:34:00	
ops31	2006 oct 06 21:34:00	-	2006 oct 12 19:15:00	
ops32	2006 oct 12 19:15:00	-	2006 oct 24 18:45:00	
ops33	2006 oct 24 18:45:00	-	2006 nov 30 04:30:00	
ops34	2006 nov 30 04:30:00	-	2007 feb 22 21:05:00	
ops35	2007 feb 22 21:05:00	-	2007 mar 01 12:10:00	
ops36	2007 mar 01 12:10:00	-	2007 apr 03 19:38:30	
ops37	2007 apr 03 19:38:30	-	2007 may 19 19:30:00	
ops38	2007 may 20 01:30:00	-	2007 may 20 14:44:00	
ops39	2007 may 20 14:44:00	-	2007 may 21 6:57:00	# extremely limited (only channels 20
ops40	2007 may 21 6:57:00	-	2007 may 31 17:52:00	# should be 2007 may 21 17:10:00 - 20
ops41	2007 may 31 17:52:00	-	2007 may 31 19:36:30	
ops42	2007 may 31 19:36:30	-	2007 jun 14 19:56:30	
ops43	2007 jun 14 19:56:30	-	2007 aug 23 16:18:00	
ops44	2007 aug 23 16:18:00	-	2007 sep 26 21:16:00	
ops45	2007 sep 26 21:16:00	-	2008 aug 11 18:32:00	
ops46	2008 aug 11 18:32:00	-	2008 sep 30 18:02:00	
ops47	2008 sep 30 18:02:00	-	2008 oct 24 17:39:00	
ops48	2008 oct 24 17:39:00	-	2008 oct 31 22:08:30	
ops49	2008 oct 31 22:08:30	-	2009 jul 30 16:10:00	
ops50	2009 jul 30 16:10:00	-	2009 aug 04 16:44:00	
ops51	2009 aug 04 16:44:00	-	2009 sep 27 18:01:00	
ops52	2009 sep 27 18:01:00	-	2009 sep 27 19:50:00	
ops53	2009 sep 27 19:50:00	-	2009 nov 06 18:50:00	
ops54	2009 nov 06 18:50:00	-	2011 mar 17 00:50:00	
ops55	2011 mar 17 00:50:00	-	2011 oct 05 17:21:00	
ops56	2011 oct 05 17:21:00	-	2011 oct 21 19:55:30	
ops57	2011 oct 21 19:55:30	-	2011 nov 04 16:35:00	
ops58	2011 nov 04 16:35:00	-	2011 nov 14 16:00:00	
ops59	2011 nov 14 16:00:00	-	2012 oct 31 22:57:00	
ops60	2012 oct 31 22:57:00	-	2012 nov 8 22:58:00	
ops61	2012 nov 08 22:58:00	-	2012 dec 10 19:30:00	
ops62	2012 dec 10 19:30:00	-	2013 mar 28 18:53:00	
ops63	2013 mar 28 18:53:00	-	2013 may 07 17:45:00	
ops64	2013 may 07 17:45:00	-	2013 oct 08 21:57:00	# removed h2o.li7200 from fast logger
ops66	2013 oct 08 21:57:00	-	2013 oct 24 19:57:00	# added ec.155, removed t.med (note,
ops67	2013 oct 24 19:57:00	-	2013 nov 07 17:59:00	# added tc.med to the UC logger, char

```
ops68    2013 nov 07 17:59:00 - 2014 apr 24 23:32:00    # added back 2-d ati sensor, renamed
ops69    2014 apr 24 23:32:00 - 2014 sep 26 19:32:00    # added three T.ir sensors to NCTC 1
ops70    2014 sep 26 19:32:00 - 2020 jan 01 16:00:00    # added co2/h2o from the LI-7500A (op
```

The directories included in the zip archive are (within each directory are the config files for that particular OPS configuration)):

Directories:

```
drwxr-xr-x 14 sburns aster 4096 Dec 8 2004 old_ops_files/
drwxr-xr-x 7 sburns aster 4096 May 22 2009 ops0A/
drwxr-xr-x 7 sburns aster 4096 Feb 18 2002 ops0.old/
drwxr-xr-x 2 sburns aster 4096 Feb 7 2011 ops1/
drwxr-xr-x 2 sburns aster 4096 Nov 19 2003 ops10/
drwxr-xr-x 2 sburns aster 4096 Jan 4 2004 ops11/
drwxr-xr-x 2 sburns aster 4096 May 10 2004 ops12/
drwxr-xr-x 2 sburns aster 4096 Sep 16 2004 ops13/
drwxr-xr-x 2 sburns aster 4096 Jun 4 2004 ops14/
drwxrwsr-x 7 sburns aster 4096 Feb 7 2011 ops1.4/
drwxr-xr-x 2 sburns aster 4096 Oct 4 2004 ops15/
drwxrwsr-x 8 sburns aster 4096 Jan 21 2011 ops1.5/
drwxr-xr-x 2 sburns aster 4096 Oct 10 2004 ops16/
drwxr-xr-x 2 sburns aster 4096 Oct 10 2004 ops17/
drwxr-xr-x 2 sburns aster 4096 Oct 10 2004 ops18/
drwxr-xr-x 2 sburns aster 4096 Nov 2 2004 ops19/
drwxrwsr-x 8 sburns aster 4096 May 6 2010 ops1_more_old_stuff/
drwxr-xr-x 2 sburns aster 4096 Nov 1 2004 ops1.old.ops1/
drwxrwsr-x 7 sburns aster 4096 Apr 25 2010 ops1.old.stuff/
drwxrwsr-x 7 sburns aster 4096 Feb 18 2002 ops1.soloris/
drwxr-xr-x 3 sburns aster 4096 Jan 21 2011 ops2/
drwxr-xr-x 2 sburns aster 4096 Nov 1 2004 ops20/
drwxrwxr-x 2 sburns aster 4096 Feb 11 2005 ops21/
drwxrwxr-x 2 sburns aster 4096 May 30 2005 ops22/
drwxrwxr-x 2 sburns aster 4096 Feb 11 2005 ops23/
drwxr-xr-x 2 sburns aster 4096 Jun 7 2005 ops24/
drwxr-xr-x 2 sburns aster 4096 Nov 15 2005 ops25/
drwxr-xr-x 2 sburns aster 4096 Oct 28 2005 ops25_old/
drwxr-xr-x 2 sburns aster 4096 Dec 20 2005 ops26/
drwxr-xr-x 2 sburns aster 4096 Jul 12 2006 ops27/
drwxr-xr-x 2 sburns aster 4096 Jul 10 2006 ops28/
drwxr-xr-x 2 sburns aster 4096 Jul 12 2006 ops29/
drwxr-xr-x 2 sburns aster 4096 Jul 12 2002 ops3/
drwxr-xr-x 2 sburns aster 4096 Oct 1 2006 ops30/
drwxr-xr-x 2 sburns aster 4096 Oct 6 2006 ops31/
drwxr-xr-x 2 sburns aster 4096 Oct 12 2006 ops32/
drwxr-xr-x 2 sburns aster 4096 Oct 26 2006 ops33/
```

drwxr-xr-x	2	sburns	aster	4096	Nov	30	2006	ops34/
drwxr-xr-x	2	sburns	aster	4096	Feb	22	2007	ops35/
drwxr-xr-x	2	sburns	aster	4096	Nov	30	2006	ops36/
drwxr-xr-x	2	sburns	aster	4096	Apr	3	2007	ops37/
drwxr-xr-x	2	sburns	aster	4096	May	19	2007	ops38/
drwxr-xr-x	2	sburns	aster	4096	May	20	2007	ops39/
drwxr-xr-x	2	sburns	aster	4096	Dec	3	2002	ops4/
drwxr-xr-x	2	sburns	aster	4096	Apr	3	2007	ops40/
drwxr-xr-x	2	sburns	aster	4096	May	31	2007	ops41/
drwxr-xr-x	2	sburns	aster	4096	Nov	23	2007	ops42/
drwxr-xr-x	2	sburns	aster	4096	May	31	2007	ops42_old/
drwxr-xr-x	2	sburns	aster	4096	Jun	14	2007	ops43/
drwxrwxr-x	2	sburns	aster	4096	Aug	23	2007	ops44/
drwxrwxr-x	2	sburns	aster	4096	Sep	25	2007	ops45/
drwxr-xr-x	2	sburns	aster	4096	Aug	11	2008	ops46/
drwxr-xr-x	2	sburns	aster	4096	Sep	30	2008	ops47/
drwxr-xr-x	2	sburns	aster	4096	Oct	24	2008	ops48/
drwxr-xr-x	2	sburns	aster	4096	Oct	31	2008	ops49/
drwxr-xr-x	2	sburns	aster	4096	Dec	3	2002	ops5/
drwxr-xr-x	2	sburns	aster	4096	Jul	30	2009	ops50/
drwxr-xr-x	2	sburns	aster	4096	Aug	4	2009	ops51/
drwxr-xr-x	2	sburns	aster	4096	Sep	27	2009	ops52/
drwxr-xr-x	2	sburns	aster	4096	Sep	27	2009	ops53/
drwxr-xr-x	2	sburns	aster	4096	Nov	6	2009	ops54/
drwxr-xr-x	2	sburns	aster	4096	Mar	16	2011	ops55/
drwxr-xr-x	2	sburns	aster	4096	Oct	3	2011	ops56/
drwxr-xr-x	2	sburns	aster	4096	Oct	21	2011	ops57/
drwxr-xr-x	2	sburns	aster	4096	Nov	4	2011	ops58/
drwxr-xr-x	2	sburns	aster	4096	Nov	15	2011	ops59/
drwxr-xr-x	2	sburns	aster	4096	Mar	5	2003	ops6/
drwxr-xr-x	2	sburns	aster	4096	Oct	31	2012	ops60/
drwxr-xr-x	2	sburns	aster	4096	Nov	8	2012	ops61/
drwxr-xr-x	2	sburns	aster	4096	Dec	10	2012	ops62/
drwxr-xr-x	2	sburns	aster	4096	Mar	28	2013	ops63/
drwxr-xr-x	2	sburns	aster	4096	May	7	2013	ops64/
drwxr-xr-x	2	sburns	aster	4096	Oct	8	2013	ops66/
drwxr-xr-x	2	sburns	aster	4096	Oct	24	2013	ops67/
drwxr-xr-x	2	sburns	aster	4096	Nov	7	2013	ops68/
drwxr-xr-x	2	sburns	aster	4096	Apr	24	2014	ops69/
drwxr-xr-x	2	sburns	aster	4096	Jun	11	2003	ops7/
drwxr-xr-x	2	sburns	aster	4096	Sep	26	2014	ops70/
drwxr-xr-x	2	sburns	aster	4096	Oct	20	2003	ops8/
drwxr-xr-x	2	sburns	aster	4096	Oct	20	2003	ops9/
drwxr-xr-x	7	sburns	aster	4096	May	21	2009	ops99_jul1/
drwxr-xr-x	7	sburns	aster	4096	Jan	26	2007	ops_files_pre2002/