

Daily status, July 9

AHATS daily status 7/09/08

Staff: Semmer, Horst, Khoung, McIntyre; Maclean left this morning

Summary:

We moved the Vaisala barometer from the PAM pressure port to the fast pressure reference cylinder last night. It appears that the reference cylinder pressure follows the diurnal cycle of ambient pressure (although we no longer have an independent measure of ambient pressure). Today we are testing for leaks by blowing into the reference line to overpressure it and watching for a decay in pressure indicating a leak. Steve found one obvious leak where a tee was used instead of a straight through junction.

Steve has repaired the bad 'filter' boards so that we now have 14 good pressure/temperature signals, albeit apparently poor pressure data due to leaks on the reference side.

For more details, see the ahats logbook at <https://wiki.ucar.edu/display/ahatslogbook>

Good wind direction: For the period 7/7 12:30 through 7/9 12:30, we have only 5.25 hours (11%) of good data. We no longer are getting good wind directions either day or night.

Local data storage: (7/9/08)

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Filesystem      1k-blocks  Used Available Use% Mounted on
root@upwind root# df | grep usbdisk
/dev/sda1       57685532  1198288 56487244   2% /var/tmp/usbdisk
root@downwind1 root# df
/dev/sda1       57685532  347476 57338056   1% /var/tmp/usbdisk
root@downwind2 root# df
/dev/sda1       57685532  425008 57260524   1% /var/tmp/usbdisk
root@profile root# df | grep usbdisk
/dev/sda1       57685532  1133292 56552240   2% /var/tmp/usbdisk
root@pressure1 root# df | grep usbdisk
/dev/sda1       3940812   396592 3544220  10% /var/tmp/usbdisk
root@pressure2 root# df | grep usbdisk
/dev/sda1       3940812   395692 3545120  10% /var/tmp/usbdisk
```

Pressure:

Diurnal variation of fast pressure is an order of magnitude less than ambient pressure.

p: all channels ok as of 10 am PDT this morning

t: all channels ok as of 10 am PDT this morning