# Daily status, July 8

AHATS daily status 7/08/08

Staff: Maclean, Horst, Khoung, McIntyre; Semmer arrived today

Summary

We will count July 7 12:30 PDT as the new start of (good) operations.

A revised configuration schedule, accounting for the start and stop times of reconfiguration days:

```
Config z (m) S (m) Dates Length
1 3-4 4 7/7-15 8.7 days
2 3-4 1.3 7/18-23 6.6 days
3 7-8 1.3 7/25-30 6.6 days
4 7-8 0.43 8/2-9 8.6 days
```

Gordon replaced the serial board in the downwind-2 adam, which should eliminate the outages we have been experiencing there.

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 7/8 12:30, we have only 3.33 hours (14%) of good data. We no longer are getting good wind directions either day or night.

#### Pressure:

-----

11b not connected. Pressure, but not temperature, bad at 9t. Diurnal variation of fast pressure is an order of magnitude less than ambient pressure.

#### Profiles:

-----

Missing data 17:30 - 18:50, July 7 (power outage at trailer)

```
diag: spikes around 14:30, July 7. samples.sonic: same spikes spd: ok dir: ok w: ok tc: ok sigma_w/u*: ok (1.3 at night) w'w': ok u*: ok w'tc': ok T: ok RH: 4m may be low by less than 1% RH P: okay
```

Upwind (hts=3.5):

-----

 $(+/- = \sim 1 \text{ std deviation})$ 

Missing data 17:30 - 18:50, July 7 (power outage at trailer)

Missing sonic 7u 13:00 July 7 - 10:25 July 8 (bad port on new serial card)

diag: ok samples.sonic: ok spd: ok, +/- 15 cm/s (6u has +15 cm/s offset in u) dir: ok, +/- 5 deg w: ok, +/- 5 cm/s tc: ok, +/- 0.2 deg w'w': ok, +/- 0.01 m^2/s^2 (30 min avg for second moments) u\*: ok, +/- 2 cm/s sigma\_w/u\*: ok (1.3 at night) w'tc': ok, +/- 0.02 m/s degC tc'tc': ok, +/- 0.05 degC^2

### Lower (hts=3):

-----

Missing data 17:30 - 18:50, July 7 (power outage at trailer) Missing sonics 7b-13b 10:15 - 10:40 July 8 (swapping serial board) diag: ok

samples.sonic: ok spd: ok, +/- 20 cm/s dir: ok, +/- 6 deg w: ok, +/- 5 cm/s tc: ok, +/- 0.27 deg w'w': ok, +/- 0.01 m^2/s^2 (30 min avg for second moments)

u\*: ok, +/- 3 cm/s

sigma\_w/u\*: ok (1.3 at night) w'tc': ok, +/- 0.02 m/s degC tc'tc': ok, +/- 0.1 degC^2

## Upper (hts=4):

Missing data 17:30 - 18:50, July 7 (power outage at trailer) Missing sonics 7t-11t 10:15 - 10:40 July 8 (swapping serial board)

samples.sonic: ok spd: ok, +/- 20 cm/s dir: ok, +/- 5 deg; 6t is about 6.5 degrees off from profile sonic

w: ok, +/- 6 cm/s

tc: ok, +/- 0.2 deg
w'w': ok, +/- 0.01 m^2/s^2 (30 min avg for second moments)

u\*: ok, +/- 4 cm/s

sigma\_w/u\*: ok (1.3 at night) w'tc': ok, +/- 0.02 m/s degC tc'tc': ok, +/- 0.1 degC ^2