

Status, June 28

AHATS daily status 6/28/08

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Summary: Replaced 3m profile sonic yesterday. Chenning and Khung working on completion of pressure sensor deployment. Currently no data from downwind 1 and profile adams; radio down but should have local data storage.

Gordon recycled power on the transmitter, but we later discovered that the downwind-1 and pressure-1 adams are not transmitting. Gordon found that the adams were not getting their internet addresses due to outages of the wireless network.

Good wind direction: For the period 6/25 17:00 through 6/28 11:45, we have 24 hours 35 minutes of data periods of length 20 minutes or longer with wind directions from 195-355 degrees. This includes 8 periods of length greater than one hour. Note that the daytime periods may be compromised by work on the array, e.g. installing the pressure sensors.

Profiles:

spd: ok
dir:
u*: ok
w'tc': ok
T: ok
RH: 4m may be low by less than 1% RH
P: okay

Upwind (hts=3.5):

spd: ok, +/- 20 cm/s
dir: ok, +/- 5 deg
tc: ok, +/- 0.5 deg
w'w': ok, +/- 0.02 m²/s² (30 min avg for second moments)
tc'tc': ok, +/- 0.2 degC ²
u*: ok, +/- 0.1 m/s
w'tc': ok, +/- 0.05 m/s degC
diag: ok, mostly << 1 but some spikes after 0400 this morning

Lower (hts=3):

missing sonics from downwind-1 adam after 22:20 6/27: 1b,2b,3b,4b,5b,6b

spd: ok, +/- 20 cm/s
dir: ok, +/- 5 deg
tc: ok, +/- 0.5 deg
w'w': ok, +/- 0.02 m²/s² (30 min avg for second moments)tc'tc': ok, +/- 0.2 degC ²
u*: ok, +/- 0.1 m/s
w'tc': ok, +/- 0.03 m/s degC
diag: ok, mostly << 1 but some spikes after 0500 this morning

Upper (hts=4):

missing sonics from downwind-1 adam after 22:20 6/27: 3t,4t,5t,6t

spd: ok, +/- 20 cm/s
dir: ok, +/- 5 deg
tc: ok, +/- 0.5 deg
w'w': ok, +/- 0.02 m²/s² (30 min avg for second moments)
tc'tc': ok, +/- 0.2 degC ²
u*: ok, +/- 0.1 m/s
w'tc': ok, +/- 0.04 m/s degC
diag: ok, mostly << 1 but some spikes after 0500 this morning