

# Daily status, July 16

AHATS daily status 7/16/08

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

Good wind direction: From July 11, 12:00, through July 16, 12:00, we have had 61.08 hours or 51% good wind directions with continuous periods of at least 25 minutes. This includes 43.33 hours stable data and 16.92 hours unstable. Note that more than half of the stable data is weakly stable,  $0 < z/L < 0.1$ . With the exception of this near-neutral data, the balance between stable and unstable is more closely balanced than the numbers suggest.

Local data storage:

```
-----
root@upwind root# df | grep usb
/dev/sda1      57685532  2377044  55308488   4% /var/tmp/usbdisk
root@downwind1 root# df | grep usb
/dev/sda1      57685532  2878296  54807236   5% /var/tmp/usbdisk
root@downwind2 root# df | grep usb
/dev/sda1      57685532  3114884  54570648   5% /var/tmp/usbdisk
root@profile root# df | grep usb
/dev/sda1      57685532  1951096  55734436   3% /var/tmp/usbdisk
root@pressure1 root# df | grep usb
/dev/sda1      3897204   630656   3266548  16% /var/tmp/usbdisk
root@pressure2 root# df | grep usb
/dev/sda1      3940812   630240   3310572  16% /var/tmp/usbdisk
```

Pressure:

-----  
(+/- = ~1 std deviation among variables at the same height)

p: ok, +/- 0.02 mb  
p'p': ok, +/- 0.002 mb<sup>2</sup>  
w'p': ok, +/- 0.002 m/s mb  
t: ok, +/- 0.3 degC  
Pref: ok, range = +/- 2 mb, with a period of ~24 hours

Profile:

-----  
h2o: ok, 13 gm/kg  
w'h2o': ok, 0.02 m/s g/m<sup>3</sup> at midday  
co2: ok, 15 mmol/m<sup>3</sup>  
w'co2': ok, -0.01 m/s mmol/m<sup>3</sup> at midday