

Daily Status, June 30

June 30, 12:45 CDT
Tom Horst (in Boulder)

Summary: Stations 1-4 operational, no ISFS staff on site
Stn 2 RH.2m no apparent change with new sensor;
sites 1 and 2 drier at 2m than sites 3 and 4.
some differences in mean winds and turbulence among sites.
large noise on kh2o at stn 4 after 00:00 GMT today

Vdsm: 13.5-14 V during day, down to 12.5 at night
P: ok, relative pressures suggest site rises from south to north(?)

T.2m: ok, stn 1 at times colder at night than 2-4; stns 3&4 colder during
the day yesterday; otherwise stations agree closely with each other
RH.2m: 80-100% at night; stns 1 & 2 often a few %RH less than stns 3 and 4
H2O.2m: stns 1 and 2 are ~1 gm/m³ less than stations 3 and 4 during the
day but within 0.5 gm/m³ at night (stns 2,3,4)
Wetness: peak at 06:00 coincides with RH close to 100%

T.10m: ok, see comments for T.2m
RH.10m: ok, 90-95% at night
H2O.10m: ok, 1 & 4 drier than 2 & 3

Spd.10m: ok, at time last night stn 1 lower than 2-4
Dir.10m: ok, 1 & 3 and 2 & 4 agree best last night

T.10m - T.2m: ok, diurnal cycle as expected, very similar at all sites
H2O.10m - H2O.2m: 1 & 2 > 0 last night

spd.4.5m: ok, see comments for Spd.10m
dir.4.5m: ok
w.4.5m: ok
tc.4.5m: ok, all sites agree within +/- 0.5 degC
ldiag: ok

kh2oV: below 100 mV, but h2o up 23 gm/m³
kh2o: ok
h2o(licor): ok
ldiag (licor): ok

TKE.4.5m: ok, lower at stn 1 than 2:4 last night
w'w': ok, see comment for TKE (also u'u' and v'v')
u*: ok, see comment for TKE

w'tc': ok, diurnal cycle as expected,
noticeably higher at sites 1 and 2 during daytime
tc'tc': ok, significantly higher at sites 1 and 2 during daytime

w'h2o': ok, sometimes highest at site 4 during daytime
h2o'h2o': ok
kh2o'kh2o': not ok; huge variance at stn 4 beginning around 00:00 GMT today

w'co2': ok, daytime flux greater (more negative) at 3 than 1
co2'co2': ok, see comment for w'co2'