

STATUS Dec 17, 2010

Status evaluated from 36 hour plots on Dec 17 08:00-10:00 MST
On site: Steve S and Chris

Summary: no Tsoil at W Slope main

Vdsm: ok, 11.5-14.8v, battery at 2 ~.8v below others
Vmote.rad: ok, 12.3-15v, peaking to 18v
Vmote.soil: 12.2-14.8 V, peeking to 18v

P: ok, 841 to 873 mb
Tbaro: ok, -10 to 17 degC
T: ok, -12 to -.5 degC
RH: ok, 48 to 97%, oscillations at 2,3,5
Q: ok, 1.5 to 3.1 gm/kg
Rainr (3,4,6): ok, false tips at 4 early morning
Spd (1,6): ok, up to 5 m/s, threshold at 6 looking better
Dir (1,6): ok, currently SE

csat diag: ok; error from 2 when we visited site yesterday
spd: ok, up to 5.5 m/s
dir: ok
u'u': ok, generally $< 1 \text{ (m/s)}^2$, high values at 3 this morning (2-3 m/s)
v'v': ok, generally $< 1 \text{ (m/s)}^2$, ditto at 3
w'w': ok, generally $< .5 \text{ (m/s)}^2$, ditto at 3
u*: ok, up to 0.8 m/s
sigma_w/u*: ok, ~1.5

tc: ok, -11 to -1 deg C
tc'tc': generally $< 0.03 \text{ degC}^2$
w'tc': ok, -0.1 to 0.05 m/s degC

kh2oV: ok, 1.6 to 3.0 V, current values
kh2o'kh2o': ok, generally < 0.02 , spikes up to 0.19 $(\text{g/m}^3)^2$
w'kh2o': ok, -.01 to .02, jumps from -.03 to 0.5 (m/s g/m^3)

Rsw.in: ok, up to 680 W/m² on 12/16
Rsw.out: ok, up to 370 W/m² on 12/16
albedo: ok, 0.2 to 1.0 due to frost on the domes?
Rsw.dfs (1,7): ok, up to 100 W/m² on 12/16
Rsw.global (1,7): ok, up to 480 W/m² on 12/16

Rlw.in: ok, 190 to 260 W/m²
Rpile.in: ok, -160 to -10 W/m²
Tcase.in: ok, -12 to 8 deg C
Tdome.in (1,2,5): ok, -12 to 8 deg C

Rlw.out: ok, 240 to 310 W/m²
Rpile.out: ok, -70 to 5 W/m²
Tcase.out: ok, -12 to 10 deg C
Tdome.out (1,2,5): ok, -12 to 10 deg C

soil.aux at E & W Slope (5,6)
Tsoil: ok, -1.2 to 3.8 C, missing W Slope main
Qsoil: 13 to 34 %vol
Gsoil: 7 to 31 W/m²
Cvsoil: 5e5 to 3.2e6