

Service visit to crater floor Oct 11

Tom, Gordon arrived at tower in crater floor, 10:30am. Calm, very nice day.

Cleaned radiometers and wetness at 10:40

Replaced dessicant on pyg and pyrs

Level of uplooking KZ pygeometer is good. Pyranometer doesn't have a level.

Checked mounting of zigbee radios in all motes - looked good. All GPS jumpers are removed.

Replaced 1101 krypton with 1394. Cleaned 1394 before mounting. Voltage level 1.1V

At 12:33 checked level on SPN1, which was good.

Went to NNE to check barometer, which has shown some bad data. An easy way to find NNE is to follow the wavy line of hobos in that direction. A hobo is right next to NNE.

Voltages at NNE look good. 14.4 V where the power cable plugs in to the PC board. 3.3V at the other test point. Can't see anything obviously wrong with this barometer. Left NNE at 11:54.

Went to SW-p, which has been out for a day or so. Voltage at board power connector was 4.04 V. One connector inside the battery box appeared to be loose. After fixing that, the voltage increased to 7.6 V. So it appears that the is was just a loose connector issue. Replaced the battery. Voltage at radio board was 16.3V.

SSW2-p/c This site has a regular battery and solar panels. The large solar panel had blown over against the other so that it was facing down. Moved it a bit more out of the wind. At the controller: solar 19V, load 14V, battery 14V.

SSW3-p 12:58. 14.67V at the radio power connector.

SSW4-p/c 1:05. At charge controller: solar 17.7, Load 14.2, battery 14.2

SSW1-p 1:20 11.2 V at the radio power connector. Opened up battery box. Seemed the the voltage at the points labeled PV was 0.4V. Fiddled with connectors. Just before closing the lid, saw 11.9 at the battery, 12.3 at the "PV" test points and 11.6 at the radio. Did not replace the battery since it seems that it is now being charged.

Before leaving, checked the motes. SPN1 was not coming in. Tom said the LEDs look OK. Power cycled that mote.

Also noticed that we had failed to reconnect the sensor cables and had left the soil mote turned off when checking whether the radio was seated on the board.

2:00 left floor.