

# Swamp visits

Didn't keep close track of time – was at S15 first at 15:27, ended back from the trip about 18:00...

Out via Red Mill Creek, with the tiki duckblind shortcut.

S15: console was dead, power cycled DSM, everything came up except Mote, power cycled mote, then all sensors up. However, station wasn't on network. Decided to leave and hope it came up by itself later. Noted that the wetness sensor was covered about halfway up the handle.

S9: mote was always in cycling mode, rebooting after setting A/D gains. Pulled all sensors off (found a bit of moisture in the Gsoil connector), still rebooting. Pulled entire ribbon connector off and mote, still rebooting. Decided this mote needs some base love.

Swapped in spare mote we had brought (ID=9). Saw rare messages with rserial. Thought it might be in bluetooth console mode (stupid, because the Bluetooth module LED was off) and tried changing using 2 presses of the white switch. Eventually, got Bluetooth console enabled, paired with phone (key=1234), and set to 232 console mode (pp=0; eeupdate), still not much on rserial. Eventually got it through my thick skull that the mote was in ASCII mode and rserial wasn't seeing the correct, Wisard, terminators. Did ddn, minicom to port, set Wisard mode (mp=0; eeupdate), and all was fine. Brought old mote (ID=1) back to base. (Back at the base, changed isfs\_env.sh to include 1&9 in the definition of MOTE1 and restarted dsm\_server.)

Found out from Gary that S15 still hadn't come up on the network, so....

S15: Found that the cell modem had two green LEDs: data solid on, status on, then blinking. Pulled modem off USB and reconnected, LEDs went through cycle, ending in state that we had found it (2 greens), still no ping google. rebooted DSM using reboot command, modem went through yet another LED cycle, google immediately came up.

S5: Swapped TRH with spare we had brought (ID=49) even though the old sensor seemed to be working. Seems okay, so no harm done. Will evaluate sensor we brought back in the base to determine the source of its odd fan behavior during the rain.

Back via under-the-bridge.