

# marsh work

This visit was to take care of numerous instrument and infrastructure issues:

S3: Installed Pi DSM with old Cradlepoint and old Verizon modem (after lots of testing/configuration yesterday and this morning). Station is now completely up. This is a bit surprising, since we had some CSAT3 rebooting errors a few days ago, but it looks okay now (knock on wood). I think we forgot to dress the cell modem external antenna cable. Also finished installation of raised DSM with a bottom support rod.

S2: Reinstalled TRH crossarm/cable/sensor that I had removed Sunday to get the TRH off. (I ended up drilling out the setscrew, but didn't damage the helicoil much.) Note that fan is wired always on and reports Ifan=0. Raised the DSM.

S14: Swapped out TRH. Found that the fuse was blown and replaced it stealing from the GPS port. Raised the DSM. Also raised the battery box.

S9: Swapped out TRH. This fan also always on with Ifan=0.

S15: Powered off, then on with only cell modem connected to USB. It worked. Plugged in Bluetooth to mote. It worked. Found that data had successfully been recorded on the on-board SD card. Powered off, moved SD card to Acer, copied raw\_data files to Acer, reinstalled SD card on Titan, powered up again (with both modem and Bluetooth), and everything came up again.

So now, the only sensor issues are Qsoil.s1 (which should arrive in the mail today) and the TP01s.

We'll go back to Home Depot for more support rods and battery box shims.