

Sites, Station List

Gary asked about site locations, to use for Ubiquiti link feasibility ([airlink](#) (old) or [link](#) (new)), so this is a start:

A map that Dan has created is available [here](#).

After talking with Gary/Isabel, I've created a [shared link](#) to an entire network design. (Updated 11/3/21, with close to final positions. LC and PC would need to point to DCS, others to PRS.)

Site	Site Name	Lat	Lon	Tower height (m)	Configuration	Sensor. [Heights]	Punchlist items (12/15)
prs	Provo River Supersite	40.528118	-111.445836	32	Paroscientific, TRH, CSAT3A, EC150, OTT, CS125	P.2m, TRH.[2m, 3m, 7m, 17m, 32m], sonic.[3m, 7m, 17m, 32m] irga.[3m, 7m, 17m, 32m], ott.1m	<ul style="list-style-type: none"> ■ add DSM PRST (needs holes drilled for cell clamps into fender) ■ install sensors on TT ■ add power stuff to job box (connect to AC); make Y cable to separately power DCST and DCSR+DCSG DSMs ■ connect all heater and fan power cables ■ install CS125 5' to SSE of Ott ■ add V2.7 mote to CVF4-housed radiometers on UU darkhorse; plug it into an unused DSM PRSG port (will require a longish bulgin cable); configure this port (spo can configure) ■ connect other 3 V2.7 motes on UU darkhorse to DSM ports designated as 2compL – 2 on PRST and 1 on PRSG (order doesn't matter yet) ■ Check that all motes are switched on inside the box. Also check that mp=0 (wisard format) – spo can do this over the network. ■ add caps to unused mote ports (LOTS are in the DSM kit) ■ update software ■ sheath cables on the ground ■ cut south TT footpads to 1/4 size (2'x2') ■ erect tower!
dcs	Deer Creek Supersite	40.490101	-111.464737	32	Paroscientific, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01), CS125	P.2m, TRH.[1m, 2m, 3m, 7m, 17m, 32m], sonic.[1m, 2m, 3m, 7m, 17m, 32m], irga.[1m, 2m, 3m, 7m, 17m, 32m], nr01, all soils	<ul style="list-style-type: none"> ■ waiting for utility power – expected 12/20 ■ dry out radiometer dessicant and replace ■ add power stuff to job box (connect to AC); make Y cable to separately power DCST and DCSR+DCSG DSMs ■ connect all heater and fan power cables ■ recoat Rsw.out fan housing (DONE) ■ add radiometer logger data cable (did, but doesn't work – check continuity of D9 pin 2) ■ move NR01 to Manfrotto (don't think this is needed at prs) ■ level Rsw.in Swartz ■ TRH.1m and TRH.3m fan not working ■ TRH.17m Rfan is oddly high ■ add caps to unused mote ports ■ update software ■ sheath cables on the ground ■ erect tower! ■ Connect batteries ■ Relay board power cube ■ USB extender ■ Terminate 12v fan and heater on dark horse ■ Cclamp ■ Fix and affix fence ■ Ground trailer tower ■ Investigate relay board communication problems (maybe this is just because of the power cube)
up	Upper Provo	40.557520	-111.428520	3	Paroscientific, OTT, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01)	P, TRH.[0.5m, 2m], sonic, irga, nr01, ott.1m, all soils	<ul style="list-style-type: none"> ■ connect extension cord to power drop (when ready)
mw	Midway Lane	40.508516	-111.437739	5	Paroscientific, OTT, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01), CS125	P, TRH.[0.5m, 2m], sonic, irga, nr01, ott.1m, all soils	<ul style="list-style-type: none"> ■ add CS125 ■ add snow depth ■ csat always reports bad data

lc	Lake Creek	40.493 671	-111.32 7650	5	Paroscientific, OTT, TRH, NR01, Gsoil (REBS), Tsoil(NCAR), Qsoil(EC5), Tau63 (TP01)	P, TRH.[0.5m, 2m], nr01, ott.1m, all soils	<ul style="list-style-type: none"> ■ connect extension cord to power drop (when ready) ■ add snow depth (true?)
cc	Center Creek	40.466 344	-111.33 5625	3	Paroscientific, OTT, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01)	P, TRH.[0.5m, 2m], sonic, irga, nr01, ott.1m, all soils	<ul style="list-style-type: none"> ■ Ground strap ■ Y cable(for combining battery banks) ■ Battery ■ Nr01 amp termination ■ Relay board power stub
dc	Daniel Canyon	40.459 124	-111.37 7580	3	Paroscientific, OTT, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01), CS125	P, TRH.[0.5m, 2m, cs.1m], sonic, irga, nr01, ott.[1m, cs. 1m] all soils	
sp	South Pivot	40.481 611	-111.43 7426	3	Paroscientific, OTT, TRH, CSAT3A, EC150, CS125, , Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01)	P, TRH.[0.5m, 2m], sonic, irga, ott, all soils	<ul style="list-style-type: none"> ■ Ground strap for DSM, tower, acorn for static dissipater ■ 0.5 & 2m sht suspect ■ Nano transmitting but unknown units(outputting about 1833) ■ Nano output not being parsed
sh	Soldier Hollow	40.483 202	-111.48 7092	3	Paroscientific, OTT, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01), CS125	P, TRH.[0.5m, 2m], sonic, irga, nr01, ott.1m, all soils	<ul style="list-style-type: none"> ■ CS125 outputting message, but wifi dashboard not ingesting
pc	Pine Creek	40.543 386	-111.49 0119	3	Paroscientific, OTT, TRH, NR01, CSAT3A, EC150, Gsoil(REBS), Tsoil(NCAR), Qsoil (EC5), Tau63(TP01), CS125	P, TRH.[0.5m, 2m], sonic, irga, nr01, ott.1m, all soils	
mh	Memorial Hill	40.516 918	-111.46 1368	3	Paroscientific, OTT, TRH, CSAT3A, EC150, CS125	P, TRH.[0.5m, 2m], sonic, irga, ott.1m	<ul style="list-style-type: none"> ■ reinstall snow depth ■ CS125 outputting message, but wifi dashboard not ingesting ■ occasional bad CSAT samples(less than 1%). Worth replacing?

base		40.486 491	-111.47 3050	5			