

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			