Tower splint, reinstall TRHs, install CNR1, Licors

On site: Golubieski, Semmer, Militzer, Maclean. Dave Gochis was also at the tower site, installing soil sensors.

Installed splint at ding in tower upright.

Reinstalled TRH transducers in ventilation units at all levels.

Started installing Licor 7500's. At 43 meters, S/N 1167, port ttyS17.

Measured total power draw at data system, prior to and after unit 1167 was installed:

			Power	Add'l Power
without 43m 7500	13.0 V	1.4 A	18.2 W	
with 43m 7500	12.6 V	3.0 A	37.8 W	19.6 W
settled to	12.8 V	2.3 A	29.4 W	11.2 W

Measured power draw of the 43 meter 7500 only, with serial line power meter at the adam:

43 meter 7500	12.4 V	.87 A	10.8 Watts

Tried to prepare units 813 and 1163 for installation at 30 meters, but could not get them to boot and run with required length of cable. Red LED at circuit board would stay on, or blink on and off. It is supposed to go off once the unit is running. Measured 8 V at the end of 30 meter cable with unit attached.

Installed S/N 1163, and 1164 at 30 and 16 meters, but witout data/power cables.

level	Licor 7500 S/N	status
43m	1167	port 17, working
30m	1163	not cabled
16m	1164	not cabled
7m		
2m		

DC power supply in the enclosure that is charging the batteries is rated at 3 A, which will not be large enough to drive system with 5 Licor 7500s, since each Licor needs about 0.9 A.

The beacon was running off a separately charged battery with an inverter. Connected the beacon directly to AC power and added the battery to the bank of 2 that power the data system and tower sensors. So the beacon is not a load on the DC supply anymore, and there are 3 batteries providing power to the tower, that are charged by the DC supply via a charge controller.

Installed Kipp and Zonen CNR1 net radiometer. Data is being received. Distance from top of CNR1 boom to top of tower base plate is 22.38 meters. Chris said that per the bubble level indicator the unit is quite level.

Distance from top of CNR1 boom to top of 16 meter sonic is 6.31 meters. So the top of this sonic boom is at 22.38-6.31 = 16.03 meters.

Moved network switch from adam to power enclosure. Dave Gochis will probably use one of the ethernet ports for his Tsoil CR1000. After this switch, the fiber/copper media converter would not connect - even after several power cycles of converter and switch. Had to power cycle the media converter in the seatainer. This may mean that the fiber network will not always come up after a power outage without intervention.

Untaped pressure inlet (13:33 MST).

Updated NIDAS software on adam to version 5051M.

Installed anti-climb cage on tower.