

# Today's tasks

Another day of mostly messing with the Picarro:

- Swapped in a new ADM242AN RS232 interface chip into the Picarro's rotary valve controller. This got it working! Reinstalled and the Picarro now is able to run a inlet sequence.

- Set final inlet locations and secured them all. Checked that fittings were tight and that filter packs had the paper filter insert. Did timing tests using Picarro's clock (via walkie-talkie) by breathing into the inlet. Since we were running at 2.5 lpm, the flow rate was about 0.5 m/s -- I walk faster!

- Also blocked the sonic at 0.5m.M in an attempt to verify that the Picarro clock is synchronized with our DSMs. Started blocking with my hand at 02:38:36 and held it there for a bit longer than 10s.

P.S. I the data gap appears from 22:38:37.12 -- 22:39:52.26 UTC, indicating about a 1s offset in time (assuming that Jielun's reading was off by an hour???), and that my count to 10 actually took 15s, which I could believe. I'll check the Picarro clock (to the nearest hour!) now.

P.P.S. I found that the Picarro had been reset to Pacific time. At 09:06PM, I reset it to Mountain time. I'm not sure if this change will be picked up by the Picarro's program.

- Somehow in the process, the Picarro stopped sending data out the serial port. I've restarted (adn/aup) and verified that we are still prompting for the data.

Also about 03:10 started a cleaning sequence: kh2o.5m, li7500.2m, li7500.1m, radiometers. Didn't bother with kh2o.10m, since voltages have been good.