

901205 - ESP SURF Center

Week 50

1. Scott Jensen
 - a. Preparations for Australian deployment
2. Brent Roman
 - a. Helped Nadia just a bit with the lab move to Bld G

Week 49

1. Scott Jensen
 - a. Preparations for Australia deployment

Week 47

1. Scott Jensen
 - a. Cleaned up from the Aquarium comparison study

Week 46

1. Scott Jensen
 - a. Support of upcoming lab move to building g
2. Brent Roman
 - a. Working with Bill Ussler to test and flash firmware and FPGAs on a batch of new SPR boards
 - b. Helps support ESP ops at the sampler bake off at Aquarium

Week 44

1. Scott Jensen
 - a. Supporting lab operations
2. Brent Roman
 - a. Wrote 2G mission for upcoming sampler bakeoff at MBA

Week 43

1. Scott Jensen
 - a. MCloud instrument and installation retrieved

Week 42

1. Brent Roman

- a. Investigating how to limit sampling durations during upcoming sampler bakeoff at MBA.

Week 40

1. Scott Jensen
 - a. Support of lab operations
2. Enoch Nicholson
 - a. Mocked up Phase separator pinch valve
3. Brent Roman
 - a. Continuing to work with Chris Preston to improve 3G cartridge testing and error recovery

Week 39

1. Scott Jensen
 - a. Supported lab functions
2. Brent Roman
 - a. Updating all 3G ESPs firmware to correct a minor bug discovered just before I left for Japan
 - b. Investigating Preson's proposed software changes for 3G ESPs.

Week 37

1. Brent Roman
 - a. Helping to prepare 3G ESPs for Canon

Week 36

1. Scott Jensen
 - a. Troubleshooting a faulty pressure sensor
2. Brent Roman
 - a. Working with Nadia to understand why sampling pump pressure sensor is sometimes failing to tare

Week 35

1. Scott Jensen
 - a. Maintenance run to the McCloud Deployment site

Week 33

1. Scott Jensen
 - a. Supporting instrument preparations

Week 32

1. Scott Jensen
 - a. Support of lab's instrumentation and troubleshooting

Week 24

1. Brent Roman
 - a. One of the ESP 2Gs locked up with I2C bus failure, requiring a restart
 - i. Haven't seen this failure mode since last major firmware update
 - b. Waiting for final hardware to test skimmer on ESPhonu bound for Great Lakes
 - c. Pressure sensors on Denmark ESPs drifted
 - i. Pushed out a one-liner sed script to allow taring despite the large bias drift.

Week 23

1. Brent Roman
 - a. With Scott's help on-site, restated one of the ESP's in Ohio
 - b. Added support for a secondary "skimmer" external sampler
 - i. Including pressure monitoring and recovery from head pressure loss

Week 20

1. Scott Jensen
 - a. Control methodology complete for Seatrac two pump system
 - b. Hardware assembled

Week 16

1. Scott Jensen
 - a. Two trips to Bollibokka on the Shasta Reservoir. The first was to finalize the install with a working satellite modem. The Second was to fix an internal leak that was discovered the day after the modem was installed. Both successful endeavors and the second may have saved the instrument.
2. Brent Roman
 - a. Shipped WiFi dongles to GLERL (since they can't seem to order the correct parts)
 - b. Helping Nadia debug hardware issues on the new 3G (re-)builds

Week 15

1. Scott Jensen
 - a. Preparations for McCloud communications install trip
2. Brent Roman
 - a. Wrote scripts to mount NFS filesystems only when on the MBARI network.

- i. No longer need to alter /etc/fstab depending on where the ESP is deployed

Week 14

- 1. Scott Jensen
 - a. Supporting lab functions and deployments
 - b. Prepared the BGAN satellite terminal for deployment

Week 12

- 1. Brent Roman
 - a. Helping Nadia find source of pump pressure spikes

Week 11

- 1. Scott Jensen
 - a. Locating and gather items for upcoming deployments
 - b. Testing batteries

Week 10

- 1. Scott Jensen
 - a. Preparations for upcoming field deployments
 - b. New terrestrial housing is being assembled

Week 9

- 1. Brent Roman
 - a. Implemented slow startup of 3G's sampling pump to avoid stalls due to stiction
 - b. Split config file into multiple so 3Gs don't need to read 2G config items
 - c. Fixed long-standing bug in 2G "long" mission skeleton

Week 8

- 1. Scott Jensen
 - a. Lab support

Week 7

- 1. Scott Jensen
 - a. Meetings to determine field deployment calendar

Week 5

- 1. Scott Jensen
 - a. Evaluated NFC for possible use elsewhere in ESP program

2. Brent Roman
 - a. Continuing to help Nadia bring up the redesigned ESPkoa
 - b. Prepared replacement ESPchris CPU board for shipment to Greg Doucette's lab
 - c. Packaged and Documented new ESP 2G MSP430 firmware programming dongle
 - d. Found and fixed a long-standing bug in the ESP Linux networking scripts

Week 4

1. Brent Roman
 - a. Helping Nadia calibrate rebuilt ESPkoa
 - b. Replaced CPU on ESPbruce with current hardware revision
 - c. Moved ESPshore to server room to avoid service cut during recabling Bld A

Week 3

1. Scott Jensen
 - a. Supporting lab operations and continuing instrument builds
2. Brent Roman
 - a. Found and fixed long standing bug in handling brief losses of Ethernet carrier
 - b. Helped WHOI diagnose Ethernet hardware problem with one of their ESP carrier boards
 - c. Worked with Preston to understand desired changes in cartridge locking behavior for new carts
 - d. E-Waste bound iMac became the new "bufflehead" ESP lab server.

Week 2

1. Brent Roman
 - a. Working with WHOI to fix a long-standing bug in ESP Ethernet cable Plug/Unplug event handling
 - i. Rewrote daemon to greatly simplify it. Seems to work. Testing continues...