

901009 - CANON

Week 51

1. Thom Maughan
 - a. Looking into script for network mount
2. Mike McCann
 - a. Deployed updates, including to Django 5.0, to the 3 STOQS production servers

Week 50

1. Thom Maughan
 - a. Added Steve Haddock and Shannon Johnson to the deepednaZ
 - b. Deepedna1 is now setup with permission same as Deepedna2

Week 49

1. Thom Maughan
 - a. Moving forward with deepedna1 setup to match deepedna2

Week 48

1. Kevin Gomes
 - a. Per request from DMO, renamed some WaveGlider CCUs and migrated some data to make sure they aligned with named vehicles.
 - b. Some adjustments and data moving around for Crissy with respect to a SPOT drifter
2. Thom Maughan
 - a. Not much activity. Planning to setup deepedna1 to the same configuration as deepedna2.

Week 47

1. Thom Maughan
 - a. User support for deepedna2 server

Week 45

1. Kevin Gomes
 - a. Looking at turning on TimeZero file creation on the shore server so shore-based TimeZero servers can be tested
2. Thom Maughan
 - a. Testing and revising mount instructions on deepedna2
 - b. Trying various benchmarks

Week 43

1. Thom Maughan
 - a. Deepedna2 has been resetup with wonderful support by Peter Walker.
 - b. Software installs are complete, working on readme and testing

Week 42

1. Thom Maughan
 - a. Working on deepedna2 as an experimental setup mirroring DeepRip.
 - b. Install NVidia support, python, etc.
 - c. Worked with Peter on user account setup and approach for mounting network resources

Week 41

1. Thom Maughan
 - a. Discussions with bioinformatics suers
 - b. Setup deepedna2 as base ubuntu 22 with sudo privs for users, many thanks to Peter for the support.

Week 40

1. Thom Maughan
 - a. Working thru permissions and setup of the deepedna servers. Request was for backup and security patches however additional constraints and permission limitations are encountered.
 - b. Next step is to setup deepedna2 in the same fashion as DeepRip.

Week 38

1. Kevin Gomes
 - a. Some small ODSS support
2. Thom Maughan
 - a. Working with IS on deepednaZ server setup. Re-partitioning is complete and IS tickets have been filed for the backup and account setups.

Week 37

1. Thom Maughan
 - a. Meeting with Neil to go over backup and options. After working thru various scenarios, decided best course of action.
 - b. One on one discussions with oceanomics server users.

Week 36

1. Thom Maughan
 - a. Meeting with ocean omics team to go over near term plans for server setup and to understand their concerns.
 - b. Working with IS on backups, permissions, security patches for the deepednas
 - c. MBON Master software install 'forensics'
 - d. Discussions

Week 35

1. Thom Maughan
 - a. Drafted a document with the software installed on MBON-edna.
 - b. Met with Katy, Kobun, Sebastian and Jacoby to gather requirements for setting up the two high performance edna processing servers. Discussed docker and git. Plan is to start simple on edna1 and use edna2 for prototyping and experimental software.
2. Carlos Rueda
 - a. Per Jenny's inquiry, looked into changing the displayed name of a couple of assets on the ODSS map. I did the updates in the mongo database, but somehow they got overwritten after a few seconds, likely

by some external process or by ODSS using some cached info. Will discuss with Kevin when he's back from vacation.

Week 34

1. Thom Maughan
 - a. Prep for bio-informatics meeting. Meeting delayed to the 30th (covid)

Week 33

1. Thom Maughan
 - a. Meeting with bio-informatics squad has been delayed due to Covid.
2. Mike McCann
 - a. Renewed Matlab license on elvis so that it no longer needed a reboot every few days

Week 32

1. Kevin Gomes
 - a. Trying to expand the data extraction for the WaveGlider to other reports, but the API from Liquid does not return any data from the reports we care about. Have a ticket into Liquid support.
2. Thom Maughan
 - a. Prep for oceanomics server setup discussion with bio-informatics workers. Meeting delayed a week.

Week 31

1. Thom Maughan
 - a. Per Kobun, working on deep-edna1 setup following mbon-edna. Looking into VMWare and Docker options
 - b. Meeting with bio-informatics users next wed/thurs to get requirements.
 - c. Peter in IS helped get the software install history off mbon-edna

Week 30

1. Thom Maughan
 - a. Investigating use of VMWare for consistency with MBON server and to address concerns about introducing too many new technologies to the user base of the eDNA servers. Docker would come in a subsequent phase.
 - b. Met with Peter in IS to get info from ticket system on MBON server.
 - c. Attended Zack Golds talk and had a follow up discussion.

Week 29

1. Thom Maughan
 - a. Met with Kobun on the eDNA server software and plans. First implementation will mirror the MBON server.
2. Mike McCann
 - a. Mentoring capstone students – one team is doing so well I had to order new STOQS mugs

Week 28

1. Duane Edgington
 - a. Read 2024 proposal
2. Mike McCann
 - a. Tested STOQS development system modernization capstone student work

Week 26

1. Kevin Gomes
 - a. Some clean up and restarting post server patching
2. Brent Jones
 - a. Demobed Wire Walker. Replacing cable between cervello and hammerhead junction
3. Thom Maughan
 - a. Docker experiments and reading.

Week 25

1. Mike McCann
 - a. Merged Django 4.2.2 and postgres15 changes into master branch
 - b. Mentoring Capstone team who is working on the [STOQS modernization issue](#)

Week 24

1. Mike McCann
 - a. Used wgTiny positions for LRAUVs during ESP filtering in [stogs_canon_may2023](#)
 - b. Fixed functional testing using SeleniumHub containers in STOQS postgres15 branch
 - c. Able now to upgrade to Django 4.2.2 in postgres15 branch with planned tethysviz migration

Week 23

1. Thom Maughan
 - a. eDNA lunchbox battery debug for doest, not needed but we have a task on the list to provide a proper charging circuit with safety review sometime this year. Plan to leverage Planktivore design.
 - b. eDNA server requirements gathering
2. Mike McCann
 - a. Transition to new stogs.shore.mbari.org complete with DNS changes wednesday morning
 - b. With IS help opened firewall so that stogs.mbari.org can see the new kraken server
 - c. Fixing brizo's bad dead reckoned position data from the May 2023 CANON campaign

Week 22

1. Brian Kieft
 - a. Wrapped up CANON deployment last week following a successful mission for Brizo/Tiny.
 - b. Makai was recovered early due to an ESP failure.
2. Mike McCann
 - a. The new internal stogs server (kraken2) is performing well with Postgres15 and more space

Week 21

1. Kevin Gomes
 - a. Supporting experiment
2. Brian Kieft
 - a. Recovered Makai today.
 - b. Still helping out with CANON. May be extended
3. Thom Maughan
 - a. Researching use of docker and zfs on bioinformatics servers
4. Mike McCann
 - a. Upgraded to stogs-mapserver 7.4.2 for Postgres 15 authentication support
 - b. Continuing to test Postgres 15 on kraken2 – so far so good
 - c. Making sure automated i2map data processing is executing for ongoing CANON campaign

Week 20

1. Duane Edgington
 - a. Team meeting May 11, May 18
2. Kevin Gomes
 - a. CANON readiness meeting
 - b. More work on Echosounder web application for viewing products.
3. Thom Maughan
 - a. Coming up to speed on docker. Got an example docker file from Brian S.
4. Mike McCann
 - a. Spinning up replacement kraken2 internal stoqs server with lots of help from Peter
 - b. Running pg_restore for all existing stoqs databases into kraken2's postgres version 15 server

Week 19

1. Kevin Gomes
 - a. Added new layers to the ODSS for circles centered over MARS node with N,S,E,W stations labels
 - b. Helping University of Hawaii troubleshoot their SSDS installation. Their server died and they moved the disk to a new machine, but SIAM not sending messages through to SSDS now.
 - c. The UofH server had crashed back in March and they moved the disk to a new machine, but during the crash, something must have gotten messed up in the database transactions and all the incoming JMS messages were being queued, but not written to the database. I ended up stopping the server, blowing away the cache directory where the message queues and database transactions were and then restarted the server. All is back and happy again (despite the gap in data through April).
 - d. Working on application to host the MARS echosounder data for the upcoming experiment. Chad setup images posting to ProjectLibrary so I can work on the application
2. Brent Jones
 - a. Prepping CPF for canon deployment
3. Brian Kieft
 - a. Working on fix for DAT to enable mission that tracks Waveglider and also transfers data between vehicles.
4. Thom Maughan
 - a. Attended CANON meeting.
 - b. Looking into docker for edna1 and edna2 servers
5. Mike McCann
 - a. The /pg_data partition on kraken (our internal stoqs server) got to 97% full
 - b. Needed to pg_dump/pg_restore several stoqs databases to recover from above problem
 - c. Submitted IS request to build new kraken2 server with more capacity

Week 18

1. Duane Edgington
 - a. Team meeting May 4
2. Brian Kieft
 - a. Found a bug with the DAT component that will affect the planned CANON mission. Wrote a test mission to debug.
3. Thom Maughan
 - a. Scoping install of software stack on edna1 and edna2. Prototyping sans docker on edna1.
4. Carlos Rueda
 - a. MXM development

Week 17

1. Duane Edgington
 - a. Team meeting April 20
2. Thom Maughan
 - a. Meeting with Oxford Nanopore
 - b.

Week 16

1. Duane Edgington
 - a. Team meeting April 20
2. Carlos Rueda
 - a. Resuming some work on MXM, starting with dependency upgrades and revision of CD.

Week 15

1. Duane Edgington
 - a. Team meeting April 6.
2. Kevin Gomes
 - a. Planning meeting
3. Thom Maughan
 - a. Edna1 and edna2 servers are online and have accounts setup via IS. Working plans to gather user requirements for software setup. Had a brief discussion with Brian Schlinning about providing requirements review and feedback.
 - b. Organized edna lunch box and parts.
 - c. JHU has received funding, expecting activity to startup on LRAUV in-situ edna

Week 14

1. Mike McCann
 - a. Supporting ECOHAB with loading data into https://stoqs.mbari.org/stoqs_ecohab_april2023
 - b. Fixed an upstream interpolation/merging LRAUV data problem by using xarray

Week 13

1. Kevin Gomes
 - a. Planning meeting for May deployment
 - b. Fixed bug with ESRI layer and deployed to production
2. Mike McCann
 - a. Updated auv-python software to process nav data if i2map CTD data fail to log
 - b. Reloaded partial CTD recorded i2map platform data into [stoqs_canon_fall2019](#)

Week 12

1. Kevin Gomes
 - a. Build overhaul continues
2. Thom Maughan
 - a. Setup admin on deepEdna1 and deepEdna2 for server patching and install

Week 11

1. Kevin Gomes

- a. More overhaul of the docker compose used in ODSS so I can align all four ODSS deployments and standardize on Ubuntu and Docker.

Week 10

1. Kevin Gomes
 - a. Looking at upgrading ODSS on zuma on Carson.
2. Carlos Rueda
 - a. TethysDash additions to digest requests from Tom's new "hs2dash" client application, to expose acoustic communications between LRAUV and other assets on the Dash UI; hopefully to be exercised during Ecohab.
 - b. Some MXM related upgrades

Week 9

1. Kevin Gomes
 - a. Meeting
 - b. Docker container fails after build with Dockerfile so I am thinking I will move the ODSS application itself to git checkout install directly to manage updates easier and to match boat installations.
 - c. Looks like Carson will be returning Wednesday so I might work on upgrading the ODSS out there starting later this week.
2. Brian Kieft
 - a. Fixed missing data issue for water samplers
 - b. Working on architecture for intraLRAUV acommms ingest into dash from hotspot.
3. Thom Maughan
 - a. Meeting with Kobun to plan out eDNA work
4. Mike McCann
 - a. Attending CANON meetings remotely
 - b. Increasing memory of stoqs.mbari.org to support external Parquet data export users

Week 8

1. Brian Kieft
 - a. Met with team to discuss plans for May program
2. Carlos Rueda
 - a. Worked with IS / Peter to bring the MXM dockerized services back up. Thanks Peter.

Week 7

1. Duane Edgington
 - a. Attended team meeting (zoom) and reviewed campaign plan presentation materials.
2. Brian Kieft
 - a. Met with team to discuss coordinated sampling missions for June CANON

Week 6

1. Duane Edgington
 - a. Team meeting Feb 9
2. Brian Kieft
 - a. Met to discuss bringing back biolum proxies
3. Mike McCann
 - a. At Jacoby Baker's request reloaded [stoqs_canon_july2020](#) following fix to ESP parsing code
 - b. Met with Scripps student and John Ryan to discuss getting data from [stoqs_canon_april2021](#)

- c. Consulting with Chris Preston on getting data out of [stogs_os2018](#)

Week 5

1. Duane Edgington
 - a. No meeting this week.

Week 4

1. Duane Edgington
 - a. Reviewed 2023 project kickoff slides
2. Kevin Gomes
 - a. Working on fixing the base layer on ODSS. ESRI deprecated the current layer and after the new year, tiles are coming up empty. They have a new layer, but it needs API key and such so it's taking a bit to get that implemented. Have it working on test and a new image built and pushed to DockerHub, need to find a good time to replace the image on production ODSS.
3. Carlos Rueda
 - a. Preliminary review of the odss-planning component toward fixing/removing the ESRI base layer deprecation warnings. (something actually affecting a number of our webapps)

Week 3

1. Duane Edgington
 - a. Kickoff meeting Thursday Jan 19.
2. Kevin Gomes
 - a. Restarted services for AMQP consumption
 - b. Troubleshooting missing map tiles from ESRI basemap and it appears they have deprecated the basemap and I need to update the web application to use new vector based map.

Week 2

1. Mike McCann
 - a. Switched to more reliable server for the ESRI Ocean Basemap in STOQS

Week 1

1. Mike McCann
 - a. Experimented with HDF5/NetCDF module for serving in64 data types