

200105 - Core Navigation - MDUC

Week 52

1. Mike Risi
 - a. Update of navproc on David Packard after aquarium cruise.
 - b. Fixed issue with auto-start.
 - c. Working on a process to report power status of ROV instruments.
 - d. Wind sensor is up after changes in the signal distribution box, the process needed a few small changes.

Week 51

1. Kevin Gomes
 - a. Fixed bug in DiveLog on Packard
 - b. Worked with Risi to get wind data flowing and logging after crew fixed sensor wiring to signal distribution box

Week 50

1. Mike Risi
 - a. Fixed some bugs in Ricketts interface processes

Week 47

1. Mike Risi
 - a. General updates of navproc-dpkd
 - b. Working on resolving depth issue with navproc-dpkd

Week 45

1. Mike Risi
 - a. Updates for navproc-rdsn and navproc-dpkd

Week 43

1. Mike Risi
 - a. Integrating ROV navigation instruments into navproc

Week 39

1. Kevin Gomes

- a. Provided code snippets for LARS and Seapath data collection for work on LARS for latest Packard cruise

Week 35

1. Kevin Gomes
 - a. Working with GreenSea to make sure everything is still working after upgrade of OS and control software
2. Mike Risi
 - a. System update for Rachel Carson navproc-rcsn.
 - b. Miscellaneous changes to support Doc Ricketts integration.

Week 34

1. Kevin Gomes
 - a. Wrote scripts to keep simulator system disk space manageable (delete older data)
 - b. Weekly meeting

Week 32

1. Mike Risi
 - a. Completed and Accupositioner pan and tilt driver modifications

Week 31

1. Kevin Gomes
 - a. Restarted navproc, logging and the API remotely over Starlink once the vessel was underway back from Newport

Week 29

1. Kevin Gomes
 - a. Documenting and configuring more loggers
 - b. Validating 4DNav configuration
 - c. Building up LCM bridge data flows
2. Mike Risi
 - a. Working with Adriana on remote access to navproc-dpkd while Packard is at sea
 - b. Modifying Accupositioner pan and tilt drivers for light booms

Week 28

1. Mike Risi
 - a. Worked on input with Kevin for navproc portion of Core Navigation proposal
 - b. Worked with Kevin and Adriana to move navproc-dpkd to new subnet

Week 26

1. Mike Risi
 - a. Continuing navproc integration on David Packard

Week 20

1. Kevin Gomes
 - a. Installed navproc on Packard and have a couple of data streams flowing (raw data from signal distribution box right now)
2. Mike Risi
 - a. Miscellaneous bug fixes
 - b. Started navproc integration on David Packard

Week 19

1. Kevin Gomes
 - a. Starting work on downstream products from new navproc (portal, divelog, etc.)
2. Mike Risi
 - a. Deployment of navproc 2.0 to Rachel Carson complete
 - b. Preparing to commission navproc on David Packard upon return from shipyard

Week 18

1. Kevin Gomes
 - a. Starting work on ship portals to integrate multiple applications

Week 17

1. Kevin Gomes
 - a. Deployed navproc and API updates to Carson
 - b. Merged develop branch into master branch. We are fully merged and on the master!
 - c. Configuring the new navproc spare with Navproc 2.0
 - d. Starting build of navproc-dpkd-sim and coredata-dpkd-sim
 - e. Tested navproc 2.0 spare, small issues fixed.
 - f. Test with all vehicle systems on
 - g. We are officially cutover to Navproc 2.0 on the Carson

Week 15

1. Kevin Gomes
 - a. Expanding capabilities of navproc-api by adding NATS messaging which could serve to replace both MQTT and Redis if it proves robust
2. Mike Risi
 - a. Completed setup of navproc-rcsn spare machine

Week 14

1. Mike Risi
 - a. Deployed navproc 2.0 during the Rachel Carson maintenance period
 - b. Working on small navproc 2.0 deployment issues

Week 13

1. Kevin Gomes
 - a. We installed the upgraded Navproc and API system on the Carson and it ran well over the weekend.
 - b. Setting up shore-based timescaleDB server to be the shore based copy of the ship data
 - c. Working on syncing techniques to figure out how to best sync a subset of the data to shore when disconnected and then full resolution when connected.

Week 12

1. Kevin Gomes
 - a. Expanded simulator to include more signals and have it replaying just a dive profile in loop so there is no 'shore' time in the simulation.
 - b. Recompiled the CTDGUI with LabView for Windows 11 and tested against the simulator and seems to work fine except for Optode which is read over TCP/IP. Doug deployed on the boat and crew should be testing Wed 3/19
 - c. Fixed bug that wasn't showing disk usage on navproc in dataprobe
 - d. Working on data transfer workflows to see if we can improve ingest into the EXPD
 - e. Adding location to the ODSS back into the new navproc stack.

Week 11

1. Kevin Gomes
 - a. Adding more configuration to simulator to align with Carson to prep for Carson deployment
 - b. Added an MQTT bridge to navproc API to serve as a conduit for data to go to TimescaleDB
2. Mike Risi
 - a. Preparing for navproc 2.0 deployment next week
 - b. Prototyping upgrade to navproc configuration files

Week 10

1. Kevin Gomes
 - a. More work to bring simulator as close to the current Carson as possible
 - b. Working on possibly creating a new LCM bridge for TimescaleDB

Week 9

1. Kevin Gomes
 - a. Edited all the config files for simulator and Carson to hopefully get as close to final as possible
 - b. Writing example and documentation for API usage in different languages
 - i.

Week 7

1. Kevin Gomes
 - a. Working on local UDP proxy on navproc as transition period for API
 - b. Added Nav4D service to push raw 4D Nav out of a serial port as requested by Ethan/DJ
 - c. Added more data/features to simulator
2. Mike Risi
 - a. Preparing for one more navproc 2.0 test day in February before March deployment
 - b. Fixed Ventana CSP string parsing bug

Week 5

1. Mike Risi
 - a. Continuing to fix bugs in navproc 2.0 discovered during the test deployment
 - b. Working with Kevin to deploy navproc 2.0 on Rachel Carson in the last week of March

Week 4

1. Kevin Gomes
 - a. Got Carson simulator running on VM finished. Generating log files from simulated data and LCM bridge operating and flowing data into Redis, ZMQ Proxy.

Week 3

1. Kevin Gomes
 - a. Built more null modem cables and have all simulated signals running into Digit Terminal Server.
 - b. Working with Peter on a VM that has the necessary network interface tweaks to allow for LCM traffic to operate properly.
2. Mike Risi
 - a. Tested navproc 2.0 during Rachel Carson maintenance period
 - b. Working on resolving miscellaneous issues that were discovered during testing

Week 2

1. Kevin Gomes
 - a. With Mike Risi, deployed the new navproc/logging software on the Carson to leverage the maintenance week for testing.
 - b. Setting up all logger configs for Carson
 - c. Close to having two separate simulators for the Carson (old and new navproc/logging) running onshore, all with VMs.