

901910 - Plankton Taxonomic Groups from AUVs

Week 50

1. Mike McCann
 - a. Testing new LRAUV processing through to STOQS for jul2024, apr2025, jun2025, & sep2025
 - b. Applying fixes as the new auv-python software finds more edge cases with these log files

Week 49

1. Mike McCann
 - a. Closed [auv-python Issue #6](#), now loading pontus biolume data into stoqs_lrauv_jun2025

Week 48

1. Mike McCann
 - a. Doing final tests/checks on [auv-python's LRAUV branch](#) – about ready to merge into main

Week 47

1. Mike McCann
 - a. Continuing to work on [adding the processing of MBARI Long Range AUV](#) data to auv-python
 - b. More discussions with Monique & Michael regarding Planktivore data

Week 46

1. Mike McCann
 - a. Continuing to work on [adding the processing of MBARI Long Range AUV data](#) to auv-python

Week 45

1. Mike McCann
 - a. Meeting about planktivore data processing and pipeline products

Week 44

1. Mike McCann

- a. Working on auv-python's LRAUV branch
- b. Implemented a [more robust method to filter out non-monotonically increasing time values](#)

Week 43

1. Mike McCann
 - a. Working [adding on LRAUV data processing](#) to auv-python

Week 41

1. Mike McCann
 - a. Discussions about incorporating planktivore data into the auv-python/STOQS pipeline
 - b. Started LRAUV dev branch in auv-python for the code to be transferred there from STOQS
 - c. Trying to find time to work on the 2025 revamp of the STOQS code

Week 40

1. Mike McCann
 - a. Working on the STOQS revamp for 2025

Week 35

1. Mike McCann
 - a. Continuing to work on modernizing the STOQS dev environment on the revamp2025 branch

Week 33

1. Mike McCann
 - a. Figured out provenance tracking between data in stoqs_all_dorado and stoqs_all_dorado_t
 - b. Ended up renaming stoqs_all_dorado_t to stoqs_all_dorado for follow-on ML work

Week 31

1. Mike McCann
 - a. Finished reloading stoqs_all_dorado using new docker-based Hyrax server
 - b. Testing reading NetCDF4 files with groups (LRAUV data) using xarray's datatree and Hyrax
 - c. With IS's help figured out permissions for Hyrax's bes server on elvis2

Week 30

1. Mike McCann
 - a. Starting reprocess of entire Dorado archive with improved value for fluo_bl_threshold

Week 29

1. Mike McCann
 - a. Started on STOQS development environment revamp-2025 modernization effort

Week 28

1. Mike McCann
 - a. Contributed proposal text
 - b. Debugging problem with 500 error from opendap/Hyrax server

Week 27

1. Mike McCann
 - a. Reprocessed and reloaded the entire Dorado data archive into [stoqs_all_dorado](#)
 - b. Working on next year's proposal

Week 25

1. Mike McCann
 - a. Migrated auv-python from Poetry to uv and from python3.10 to python3.12
 - b. Reprocessed Dorado archive with revamped auv-python code
 - c. Using stoqs_all_dorado_t to test the reprocessed Dorado biolume data
 - d. Fixing minor issues as we identify them and will be reloading stoqs_all_dorado_t again

Week 23

1. Mike McCann
 - a. Migrating auv-python from poetry to uv
 - b. Upgrading modules and testing before reprocessing the Dorado archive

Week 22

1. Mike McCann
 - a. Tested Michael's biolume proxy correction code and merged it into main
 - b. Fixed broken CI tests in GitHub Actions
 - c. Starting on remaining open Issues before doing the reprocessing

Week 17

1. Mike McCann
 - a. Still preparing for a Dorado archive reprocess and stoqs_all_dorado reload

Week 16

1. Mike McCann
 - a. Working with Michael on adding the per-profile proxy corrections to auv-python
 - b. Planning for an entire Dorado data archive reprocess and reload of stoqs_all_dorado

Week 14

1. Mike McCann
 - a. Doing last refinements of HS2 and Ecopuck backscatter calculations/comparisons
 - b. Waiting for & willing to help on the profile oriented corrections to the proxy variables

Week 13

1. Mike McCann
 - a. Read through our DSR paper / reviewers comments and contributed some edits
 - b. Reviewing particulate backscatter calculation from instruments on Dorado and the LRAUVs

Week 11

1. Mike McCann
 - a. Tracked down a regression in LOPC processing – got to learn about using “git bisect”!
 - b. Working on GitHub Issues in preparation an archive reprocessing & stoqs_all_dorado reloading

Week 10

1. Mike McCann
 - a. Got GitHub Actions CI job working for the auv-python project
 - b. Modified 1500 lines of legacy Python code to pass modern linting standards with pre-commit
 - c. Wrote tests of end-to-end Dorado and i2map data processing to STOQS loadable data
 - d. Made the [auv-python repo](#) public as it's referenced in a paper in review for publication

Week 8

1. Mike McCann
 - a. Testing some changes to Dorado's HS2 processing code in attempt to fix some "drift" issues