

901910 - Plankton Taxonomic Groups from AUVs

Week 51

1. Mike McCann
 - a. Working on Notebooks for Dorado & Pontus fluorometer data transfer function computation

Week 49

1. Mike McCann
 - a. Working on Notebook that uses Holoviews to interactively explore Parquet data from STOQS

Week 48

1. Mike McCann
 - a. Attempting to understand optical backscatter data processing and units from Dorado & Pontus

Week 46

1. Mike McCann
 - a. Modifying auv-python's biolume proxy code to support variable flash_threshold values

Week 43

1. Mike McCann
 - a. Discovered malformed query that impacts performance of plotting data from stoqs_all_dorado

Week 35

1. Mike McCann
 - a. Started reload of stoqs_all_dorado with PAR data addition

Week 34

1. Mike McCann
 - a. Toggling between loading stoqs_all_dorado_t and stoqs_all_dorado to verify good processing

Week 33

1. Mike McCann
 - a. Found problem with extrapolation with interp1d() in auv-python
 - b. Fixing remaining data quality issues before reloading [stoqs_all_dorado](#)

Week 31

1. Mike McCann
 - a. Finished load of stoqs_all_dorado_t, still comparing Matlab with auv-processed data

Week 30

1. Mike McCann
 - a. Currently loading [stoqs_all_dorado_t](#) as a test of auv-python generated and QC'ed data

Week 29

1. Mike McCann
 - a. Adding additional QC for occasionally bad dorado parosci data from 2008 to 2012

Week 28

1. Mike McCann
 - a. Contributed to 2024 proposal submission

Week 25

1. Mike McCann
 - a. Loaded [stoqs_auv_compare](#) for another comparison of auv-python proxy data

Week 22

1. Mike McCann
 - a. Loaded stoqs_all_dorado on kraken2 with legacy and new auv-python processed data
 - b. Identifying some missions that need better quality control in the auv-python software

Week 21

1. Mike McCann
 - a. Wrote code to convert UTM positions for 2003-2004 Dorado data processing in auv-python
 - b. Testing reloading stoqs_all_dorado on kraken2

Week 19

1. Mike McCann
 - a. Fixed sampling and plumbing lag computations for Dorado biolume data
 - b. Reloaded newly processed auv-python data in test stoqs_auv_compare_t database
 - c. Met with Monique & Michael to discuss next steps and her presentation for ASLO
 - d. Reprocessing entire Dorado archive with labels for which CTD is best

Week 16

1. Mike McCann
 - a. Fixing an auv-python processing problem with bad ctd1 data affecting other instruments
 - b. Verifying daytime/nighttime processing for bioluminescence proxy variables
 - c. Adding ISUS processing to auv-python

Week 15

1. Mike McCann
 - a. Evaluating auv-python generated proxies with datashader plots Jupyter Notebooks

Week 14

1. Mike McCann
 - a. Improved profile numbering algorithm by using scipy's find_peaks()
 - b. Implemented time shifting data for dorado plumbing lags
 - c. Decreasing Gulper sample durations from 4 to 2 seconds for finer representaion
 - d. Continuing to get my Notebook and auv-python code to agree with existing proxies

Week 13

1. Mike McCann
 - a. Systematically comparing data loaded into stoqs_auv_compare using Holoviews in Jupyter

Week 11

1. Mike McCann
 - a. Reviewing flash intensity calculation in Notebook
 - b. Continuing to compare auv-python calculations with the Monique's calculations

Week 10

1. Mike McCann
 - a. Revised 5.2-mpm-bg_biolume-PiO-paper Notebook to get better agreement
 - b. Reprocessing auv-python generated 1 Second data with the Notebook method
 - c. Will be reloading https://stoqs.shore.mbari.org/stoqs_auv_compare to validate

Week 7

1. Mike McCann
 - a. Monique is reviewing another iteration of the 5.2-mpm-bg_biolume-PiO-paper.ipynb notebook
 - b. Fixed some STOQS bugs for loading stoqs_auv_compare for evaluating proxy calculations

Week 6

1. Mike McCann
 - a. Continuing to work on demonstration Notebook trying to make it agree with Monique's results
 - b. Testing Notebook computations in resample.py with a stoqs_auv_compare database

Week 5

1. Mike McCann
 - a. Making some adjustments following review my proxy calculations with Monique
 - b. Code is implemented in auv-python for production proxy computation
 - c. Tested complete pipeline into: https://stoqs.shore.mbari.org/stoqs_mb_diamonds_t

Week 2

1. Mike McCann
 - a. Implemented flash counts in the Python translation of Monique's proxy code in auv-python

Week 1

1. Mike McCann
 - a. Begin implementing Monique's proxy calculations in auv-python
 - b. Using Holoviews datashader for proxy visualization