

901910 - Plankton Taxonomic Groups from AUVs

Week 51

1. Mike McCann
 - a. Provided a review of the history of HS2 data processing

Week 50

1. Mike McCann
 - a. Explored dorado backscatter processing methods for inconsistencies found

Week 49

1. Mike McCann
 - a. Looking at reloading stoqs_all_dorado to fix an inconsistency in backscatter variable naming

Week 24

1. Mike McCann
 - a. Reviewing proposal text for renewal of this project

Week 23

1. Mike McCann
 - a. Final review of Monique's paper

Week 20

1. Mike McCann
 - a. Gave input on STOQS development scoping for 5 year project renewal proposal

Week 18

1. Mike McCann
 - a. Finished reloading monthly LRAUV databases with proper backscatter variables

Week 16

1. Mike McCann
 - a. Reloading 2019-2024 monthly databases on tethysviz with proper backscatter parameters

- b. Had IS create a new partition for the STOQS .pg_dump files that were filling up / on tethysviz

Week 15

- 1. Mike McCann
 - a. Reprocessed and reloading 2019 to present stoqs_lrauv_ databases with new backscatter vars

Week 14

- 1. Mike McCann
 - a. Reprocessing pontus data into STOQS with new ParticulateBackscatteringCoeff variables

Week 13

- 1. Michael Anderson
 - a. Updated plankton biolum proxies lrauv backseat
 - i. Fixed issue with some proxies being 0 when others are NaN
 - ii. Finished packaging for offline install for other vehicles
 - iii. Enabled replay of past data (lead to bugfix for Blob type data in LRAUV codebase: see lrauv section below)
 - b. Updated plankton ML proxies lrauv backseat
 - i. Finished packaging for offline install for other vehicles
 - ii. Updated to use new particulate backscatter variables (see lrauv section below)
 - iii. Enabled replay of past data
 - c. Updated plankton ML proxies STOQS processing
 - i. Trained new models using new threshold on biolum proxies
 - ii. Using transfer function to convert lrauv sensor data to look like Dorado sensor data to use Dorado ML model on lrauv data
 - d. Reprocessing all past lrauv logs to include particulate backscatter variables
- 2. Mike McCann
 - a. Reprocessing LRAUV data for STOQS following Michael's fixes of ecopuck data in the .nc4 files

Week 11

- 1. Mike McCann
 - a. Working with Monique & Michael to figure out comparable backscatter and chl variables

Week 10

- 1. Mike McCann

- a. Investigating data quality issues that Monique is finding with the diamond data

Week 7

1. Michael Anderson
 - a. Package up python package dependencies for offline install
 - b. Work toward installing python processing on alternate vehicle
 - c. Processed ML predictions for plankton proxies on LRAUV data in STOQS
2. Mike McCann
 - a. Added isusQuality variable to help us QC Dorado nitrate data and tested with a few missions

Week 3

1. Mike McCann
 - a. Added direct regressions for pontus ecopuck to dorado HS2 to auv-python's 6.1 Notebook
 - b. Adding some methods text to Monique's paper

Week 2

1. Mike McCann
 - a. Demonstrated Dorado to Pontus transfer function computation Jupyter Notebooks
 - b. Participated in "mini OSM" meeting for Dorado Diamonds paper that's in preparation

Week 1

1. Mike McCann
 - a. Shared Notebooks that calculate Dorado HS2 -> Pontus Ecopuck transfer functions
 - b. Frustrations with upgrades of auv-python requirements & keeping datashader working