

Danelle Cline

Week 53

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902403 - Expedition DB Modern
- Overhead
- Out of Office

Week 52

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902403 - Expedition DB Modern
- Overhead
 - Dec: 23-26: Vacation
- Out of Office

Week 51

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office

Week 50

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Completed [biotrack](#) code
 - Processing select dives with representative biodiversity. Workflow loads top-2 predictions based on ViTs model and gradcam coverage.
- 901502 - Ocean Soundscape
 - Recording computer setup. RAID and new user account done and in the MARS lab.

- Soundscape OpenAI Whisper model pipeline
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
 - Setting up new Mac FEIFEI. Apple CoreML library is pretty decent
 - Meeting with visitor Amy Mueller
 - Expense reports
- Out of Office

Week 49

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office

Week 48

- 902111 - Carbon Flux Ecology
 - Improvements to ViTS training code and generate latest training data with augmentations for Fernanda to train
- 901103 - Biodiversity and Biooptics of Zooplankton
 - BioTrack tracker development adding in multiple key points to improve tracking of siphonophores
 - Processed dive 4432 to explore biodiversity.
 - Discussion with the team about next steps: supervised, semi-supervised, etc. pipeline
- 901502 - Ocean Soundscape
 - Discussion on Whisper model ML exploration and next steps with the team. Did you know that a humpback song transcript starts with Thank You, Thank You?
 - Meeting with NOAA contractor to discuss PBP pull request for a workflow agent
 - Sadly, the new hydrophone is silent due to power issues on the MARS replacement node. The livestream was up for about a day. IS is preparing a new recording computer as planned.
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Processing and cleaning missions with improved ViTS model. Surprisingly, the model worked in a zero-shot manner, predicting an unseen jelly.
 - Added in some needed FastAPI endpoints for bulk data deletion
- Overhead
 - Setting up new laptop FEIFEI
- Out of Office

Week 47

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office

Week 46

- 902111 - Carbon Flux Ecology
 - In collaboration with Fernanda, sandbox development of contrastive plankton model for inspired by X-Sample Contrastive Loss Meta FAIR paper
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Finishing up BioTrack - a tracker suitable for tracking time-lapse or full-frame video based on points & text descriptions. Uses Meta Co-Tracker3 and BioClip models.
- 901502 - Ocean Soundscape
 - Recording computer on order
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Annotating processed missions
- Overhead
 - Set up new DELL 42.5" monitor with IS help. This consolidated three monitors into one for a more streamlined (and power-efficient) office.
 - New MAC laptop feifei is in progress with IS.
 - FathomNet correspondence about portal use which will likely need to bump to 2025
- Out of Office

Week 45

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office

Week 44

- 902111 - Carbon Flux Ecology
 - Paper review of [X-CLR](#) (graph-based contrastive learning) and PAWS for self-supervised methods with Fernanda
 - Downloaded ISIIS data for testing
- 901103 - Biodiversity and Biooptics of Zooplankton

- Testing [Meta Co-Tracker](#) on midwater video
 - Added cleanvision to exemplar pipeline. Many examples were removed.
- 901502 - Ocean Soundscape
 - Submitted request for computer replacement for MARS lab soundscape machine with RAID as it has reached the end of life
 - PyPAM/PBP meeting with collaborators to discuss expanding its use with different hydrophones using the pyhydrophone python package
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Added cleanvision to exemplar pipeline to remove dark and blurry examples. Very few were removed.
 - Processing mission trinity-2_20241021T184730_MossLanding - there are some jellies in this and pinnipeds, but the reflectance removal is not handling many high-intensity reflections which are larger than normal.
 - Exported labeled data for collaborators Salvador Jorgensen of otters and sharks; Sal tags sharks, and he is interested in the co-existence of these species.
- Overhead
 - Submitted help ticket for replacement computer ADA; she will be replaced with FEIFEI in honor of Fei-Fei Li.
 - i2MAP meeting
 - Export 26K images with 100K localizations for YOLOv11 single-class detector
 - i2MAP exploration with video lab
- Out of Office

Week 43

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - Oct 8-11 - 5th Marine Imaging Workshop in Monterey

Week 42

- 902111 - Carbon Flux Ecology
 - Created query script to mine to class imbalanced ISIIS data
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Processed all Ventana 2020 dives; reviewed 2020 test results with the team.
 - Next steps are to run the most recent Haddock dive, 4581, with a modified pipeline to include more concepts, saliency-filtered exemplars, and no confidence filtering.
- 901502 - Ocean Soundscape
 - Discussion on Kaggle Google multi-species model results and [OpenAI Whisper model](#); latter may prove more useful for general soundscape analysis.

- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - 5th Marine Imaging Workshop in Monterey poster presentation and 1-minute lightning talk
 - Testing new one-class detector model
 - Board update slides
- Overhead
 - Presented video processing at AWS Non-profit Summit, San Diego, CA
 - Emails between video lab team/HR/group lead in preparation for a safe upcoming discussion on i2MAP labeling on October 24th.
- Out of Office
 - Oct 8-11 - 5th Marine Imaging Workshop in Monterey

Week 41

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 40

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 39

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 38

- 902111 - Carbon Flux Ecology
 - Initial training labels are being tested with ResNet18 model. Next steps are to mine for rare examples to balance the training data using vss.
 - Evaluating Argo Workflows as a way to orchestrate integrated machine learning workflows in mantis
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Discussion with team about project review feedback.
- 901502 - Ocean Soundscape
 - Preparing blue whale data for sharing as a HuggingFace dataset
 - Working with the team on materials for the upcoming SoundCOOP workshop to present PBP/PyPAM notebooks. This is a small hybrid conference with NOAA to discuss tools and methods for creating sound standards. They are interested in our work on cloud and scaling.
 - Tested the just-released Google MultiSpecies model on blue whale A calls (performance not great, top-3 looking decent)
<https://www.kaggle.com/models/google/multispecies-whale>
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Labeling mission with batrays for inclusion in our vss library
 - Fixed some issues in the augmentation features of the aidata tool
 - Evaluating Argo Workflows as a way to orchestrate integrated machine learning workflows in mantis
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 37

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 36

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach

- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 35

- 902111 - Carbon Flux Ecology
 - Working on apache-beam aipipelines for images
 - Updated [ai documentation](#)
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Ansible deployment of REDIS fastapi-vss service to doris
 - Working on apache-beam aipipelines for video
 - Updated [ai documentation](#)
- 901502 - Ocean Soundscape
 - PBP upgrades to pbp-meta-gen code
 - Travel planning for upcoming workshop
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Team meeting with presentation on progress
 - Ansible deployment of REDIS fastapi-vss services to doris
 - Loaded recent deployment images to mantis
 - Refining metric graphs and scores for cross model comparisons
 - Working on apache-beam aipipelines for images
 - Updated [ai documentation](#)
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 34

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 33

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape

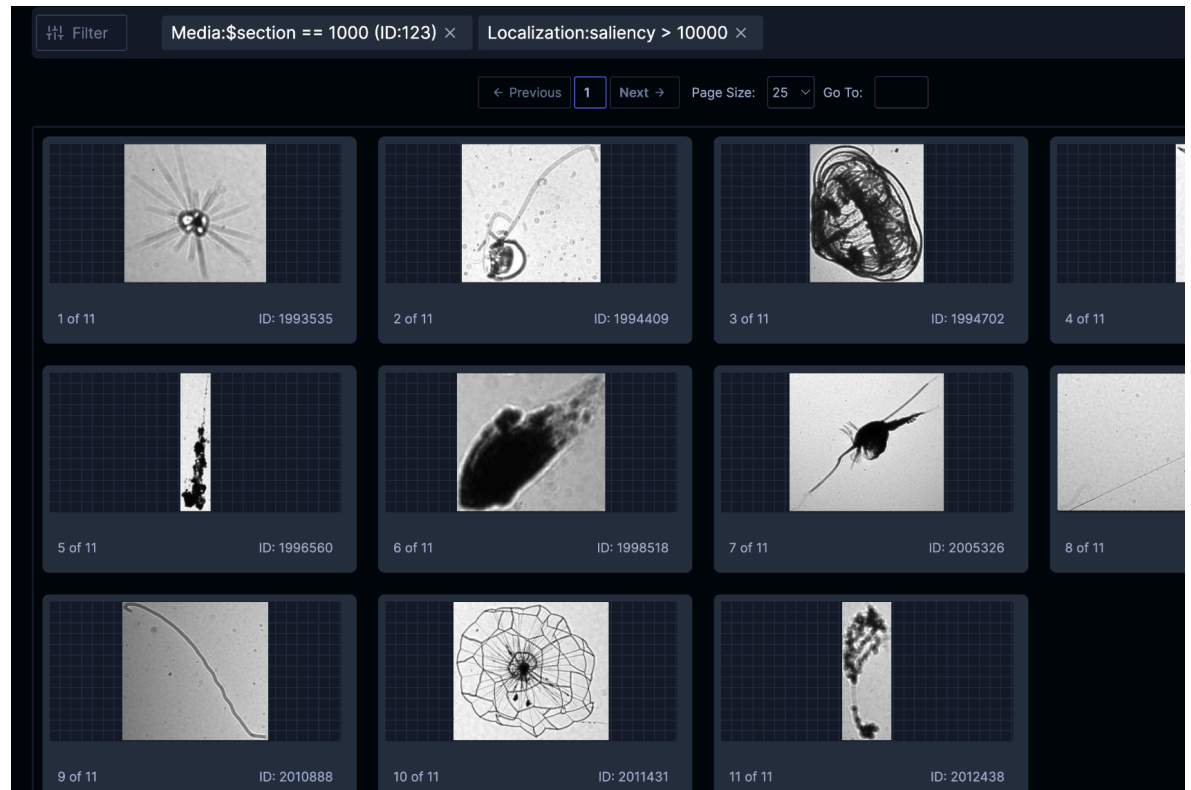
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 32

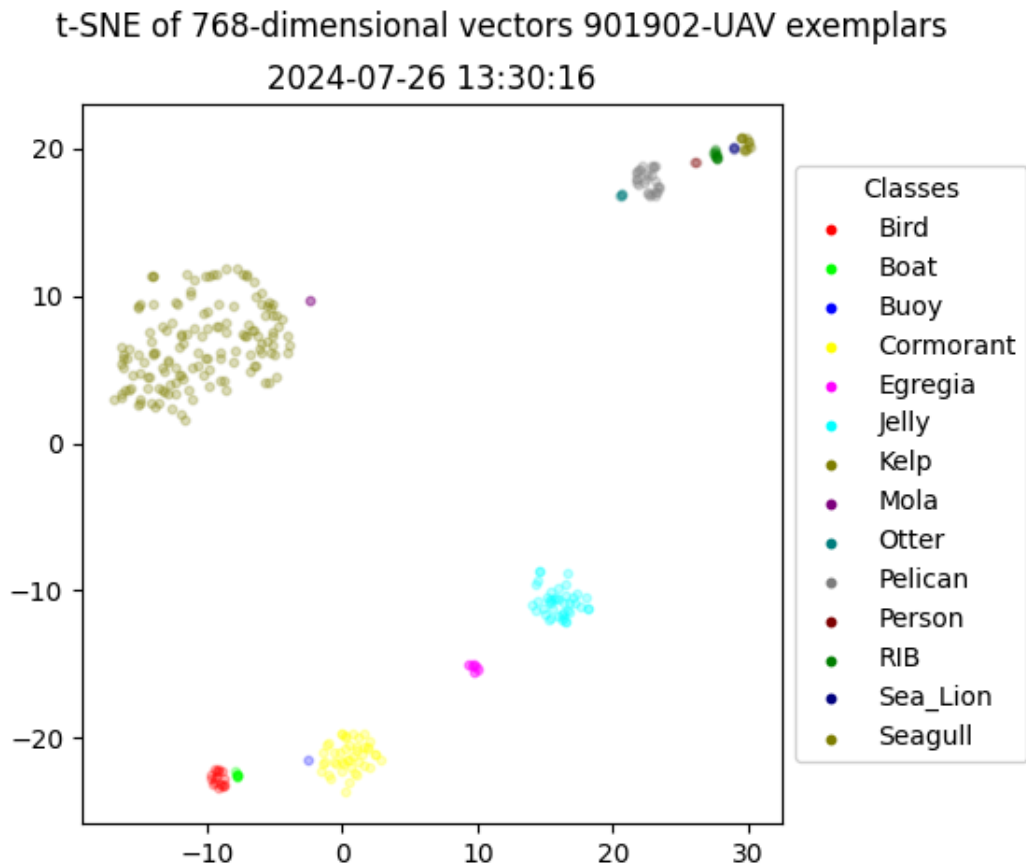
- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 31

- 902111 - Carbon Flux Ecology
 - Adding in performance metrics to pipeline and refactoring for apache beam implementation
 - Fixed bugs in small cluster edge cases and added batch inference for performance boost
 - Fernanda has loaded 1000 ISIIS images with 20000 particles; expect to start labeling soon. Sneak peek at a few detections with high saliency



-
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
 - Working on PBP plotting bug fixes with team
 - Travel plans for upcoming SoundCoop workshop
 - Discussion with EarthSpecies team about audio-to-audio search and model training collaboration
 - Hosted weekly group meeting (John on vacation)
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Adding in performance metrics to pipeline and refactoring for apache beam implementation
 - Per class performance metrics are top-3 accuracy .983, top-3 accuracy .947. Good class separation.



-
- Fixed bugs in small cluster edge cases and added batch inference for performance boost
- Overhead
 - Follow-up with D.Edgington on planktivore meeting
- Out of Office
 - September 24/25 NOAA SoundCoop workshop Boulder, CO
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 30

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office
 - Vacation July 26th
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 29

- 902111 - Carbon Flux Ecology
 - Finishing up detection, clustering and visual search inference pipeline design in preparation for processing ISIS data
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
 - Working on adding PBP time coverage plot
 - Summer intern cloud assistance
 - Team meeting
 - Brainstorming on PBP roadmap with PBP team
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Finishing up detection, clustering and visual search inference pipeline design
 - Loaded backlogged mission images to mantis and populating vss database
 - Evaluating per class performance metrics
- Overhead
 - Gave an invited Zoom talk to an enthusiastic summer camp of STEM achievers at a program hosted by [Mercy College](#). So many questions from this group of young explorers. It was a ton of fun.
- Out of Office
 - Vacation July 26th
 - Oct 7-10 - 5th Marine Imaging Workshop in Monterey

Week 28

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office

Week 27

- 902111 - Carbon Flux Ecology
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- Overhead
- Out of Office

Week 26

- 902111 - Carbon Flux Ecology
 - Proposal input
- 500055 - VARS, M3/RS, DSG

- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Vacation June 5-20

Week 25

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Vacation June 5-20

Week 24

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Vacation June 5-20

Week 23

- 902111 - Carbon Flux Ecology
 - Finished optimizing FastAPI for bulk changes
 - Project proposal input
- 500055 - VARS, M3/RS, DSG
 - Closed clustering tasks; Kevin has addressed. Thanks, Kevin!
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Performance improvements to CDK design to add elastic GPU YOIov5 scaling
- 901502 - Passive Acoustic Sensing
 - Working on PBP time metadata feature improvements
 - Summer intern intro and project counsel
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach

- Setup a slack bot called UAV bot for notifications of automated processing, and thanks for the good work by Daniel and Peter in IS and Duane, we now have 5 GPUs for use! 1 CPU will be the newly installed GPU IS supported GPUs attached to Doris.shore.mbari.org. Lastly, stubbed a REST endpoint for running our processing workflow which can send a message through the UAV bot.
- 902204 - Scalable Robotics
- Overhead
 - DOEST materials
- Out of Office
 - Vacation June 5-20

Week 22

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Vacation June 5-19

Week 21

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Vacation June 5-19

Week 20

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office

- Vacation June 5-19

Week 19

- 902111 - Carbon Flux Ecology
 - Working on optimizing FastAPI for bulk changes
 - Evaluating ARGO + Kubernetes integrated ML workflow
- 500055 - VARS, M3/RS, DSG
 - Added [ecsshutdown](#) command to support clean shutdown of elastic clusters
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Working on optimizing FastAPI for bulk changes
- 901502 - Passive Acoustic Sensing
 - Working on PBP time metadata feature improvements
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Project update presentation
 - Working ML whitepaper draft/proposal abstract input
 - Submitted IS help ticket to revive 4-GPU bo which has a failing SSD drive. Long-term solution needed with either on-premise GPUs or cloud compute.
- 902204 - Scalable Robotics
 - Sprint kick-off. Preparing for test-tank stereo capture using sightwire
 - Loaded sdcat generated output and documented steps for dial integration
- Overhead
 - IE group meeting
- Out of Office
 - Vacation June 5-19

Week 18

- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 17

- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton

- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 16

- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Ocean Soundscape
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 15

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 14

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 13

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 12

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 11

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 10

- 902111 - Carbon Flux Ecology
 - Assisting Fernanda with SDCAT questions and debugging in Colab
 - Working on REDIS workflow for automated data loading
- 500055 - VARS, M3/RS, DSG
 - Added support for adjustable disk allocation and longer timeouts to handle processing master video with larger YOLOv5 1280 models
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Working on REDIS workflow for automated data loading

- 901502 - Passive Acoustic Sensing
 - Minor corrections needed for [PR](#)
 - Upcoming discussion on Google summer of code project
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Working on REDIS workflow for automated data loading
 - Expense report for OSM
 - Researcher at [KAUST](#) who is using drones to monitor canopy stress has reached out about using our software to detect sting rays which can be seen in their low-altitude surveys
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - Medical leave March 18-April 22

Week 9

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Working on REDIS workflow for automated processing
- 901502 - Passive Acoustic Sensing
 - Finished PBP audio metadata extraction. Pending review of [PR](#).
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - OSM e-poster presentation. Minor changes to SDCAT.
- 902204 - Scalable Robotics
 - Finished sightwire watchdog pipeline for stereo data ingest with simulated video stream using REDIS timeseries.
- Overhead
 - Reviewed Tarun Sharma (2023 summer intern) CVPR paper.
- Out of Office
 - Leave Feb 29, March 1/ care for son following surgery

Week 8

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office
 - OSM Conference, Feb 19-23, New Orleans, MS
 - Vacation Feb 26
 - Leave Feb 28-29 care for son following surgery

Week 7

- 902111 - Carbon Flux Ecology
 - Tested the ISIIS instrument frame captures with sdcat which is doing a great job clustering. Beginnings of [core ai docs](#).
- 500055 - VARS, M3/RS, DSG.
 - Debugging SSO account issues. Minor assistance on training activity.
- 901103 - Biodiversity and Biooptics of Zooplankton
 - Beginnings of [core ai docs](#)
- 901502 - Passive Acoustic Sensing
 - Adding audio metadata extraction to PBP. IcListen, Soundtrap working from S3, next is HRS from GCP.
 - Setup Open Data sync for raw 2024 data. Added to ansible playbook
 - Beginnings of [core ai docs](#)
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Lots of activity on OSM e-poster and lightning talk preparations.
 - Assisted with two flights.
 - Cleaning up sdcat code for open source release.
- 902204 - Scalable Robotics
 - Working on sightwire watchdog pipeline for stereo data ingest with simulated video stream. Evaluating redis timeseries.
- Overhead
- Out of Office
 - OSM Conference, Feb 19-23, New Orleans, MS
 - Vacation Feb 26
 - Leave Feb 28-29 care for son following surgery

Week 6

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901009 - CANON
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 5

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901009 - CANON
- 901103 - Biodiversity and Biooptics of Zooplankton

- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 4

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901009 - CANON
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 3

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901009 - CANON
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 2

- 902111 - Carbon Flux Ecology
- 500055 - VARS, M3/RS, DSG.
- 901009 - CANON
- 901103 - Biodiversity and Biooptics of Zooplankton
- 901502 - Passive Acoustic Sensing
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902204 - Scalable Robotics
- Overhead
- Out of Office

Week 1

- 902111 - Carbon Flux Ecology

- Some minor work familiarizing with the ISIIS instrument output .avi files. The AVI format has problems with a missing image index but exports ok to frame for processing.
- 500055 - VARS, M3/RS, DSG.
- 901009 - CANON
- 901103 - Biodiversity and Biooptics of Zooplankton
 - DINOv2 and DINO cluster experiments in AWS are nearly complete.
- 901502 - Passive Acoustic Sensing
 - Meeting with model developers with the [Earth Species Project](#) to discuss collaboration and use of their BioLingual model - a model based on contrastive language-audio pretraining on a million audio caption pairs that can identify over a thousand species.
 - A quick prototype for FLAC file metadata extraction in same fashion as our .WAV files looks good. Should be able to quickly parse FLAC audio hosted in GCP. Talks on handling data in GCP are planned in January with the broader community.
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - We have bird clusters for our team to validate. Do you see the mola among the birds?



- 902204 - Scalable Robotics
 - Working on sightwire pipeline for stereo data ingest and visualization.
- Overhead
- Out of Office