

# Duane Edgington

## Week 52

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 51

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work on ReID model runs and stress testing
  - Exploring AWS Secrets Manager
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Continuing AWS Training
- Out of Office

## Week 50

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work on VAA testing and benchmarking
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 49

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG

- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 48

- 901502 - Soundscape Research and Education
  - Biweekly meeting
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continuing work on Benchmark training/inference with Danelle and Carlos on ReID network
- 902202 - MBARI Cloud Integration Exploration
  - Working through Coursera Cloud Solutions Architect Professional Certificate series
- Overhead
- Out of Office

## Week 47

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - 11/21-11/23: Vacation Out for Thanksgiving Nov 21 - 23.

## Week 46

- 901502 - Soundscape Research and Education
  - Updated new MBARI webpage for Soundscape Listening Room project with more details on Alexa Skill.
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work with Danelle and Carlos on Benthic 2017 model training, inference run, and AWS new account setup (quotas and testing)
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

- 11/21-11/23: Vacation Out for Thanksgiving Nov 21 - 23.

## Week 45

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Working with Peter and Neil on trying to get Digits DevBox up again. It is showing the hardware boot errors of August 2022 again. We replaced a drive in the RAID and need to rebuild the RAID once the computer is booting
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work with Danelle and Carlos
  - Made a model using localizations from benthic 2017 benchmark annotations
  - Testing model against D232 dive data
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 44

- 901502 - Soundscape Research and Education
  - Weekly telecon
  - Discussed procedure to report when live stream is down
  - Alexa Ocean Soundscape skill working fine!
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
  - New MBARI web pages task for Soundscape project
- 902004 - Planktivore
  - Report to Planktivore team on interest in the work raised by fellow plankton folks at the MIW2022 workshop.
- 902005 - VARS Annotation Assistance
  - Work with Danelle and Carlos on new AWS credentials, login, and on VAA tasks.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Received new computer from IS. Slowly adding applications, and data from backup disk.
  - Restored personal home computer to enable work from home.
- Out of Office
  - Sick Oct 31. Now back, with negative covid 19 antigen test results. Finally.

## Week 43

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance

- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Out sick Oct 19 - Oct 28.

## Week 42

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 41

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 40

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)

- Vacation (international) Oct 9 - 19 2022
- Vacation October 21-23 2022 (Southern California)

## Week 39

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 38

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 37

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 36

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 35

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
  - Attending Monterey Data Conference. The Theme is [Transforming Science with AI](#). Relevant presentations from academics, researchers from the [DOE national labs](#), and researchers from industry labs on a wide range of science use of AI topics, including climate modeling and the environment.
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work on Yolov5 and StrongSort tracker.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 34

- 901502 - Soundscape Research and Education
  - Continue monitoring the Alexa Skill MBARI Ocean Soundscape.
  - Todo: update code with Alexa Presentation Language (Display Interface is now deprecated; images are no longer rendering on Alexa Show devices i.e. devices with a screen).
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Started work on StrongSort tracker. Trying to get it to build on my machine and in SageMaker.

- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - AWS training day August 23
- Out of Office
  - Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 33

- 901502 - Soundscape Research and Education
  - Daily monitoring of live streams via Alexa Skill Ocean Soundscape. Some really cool live sounds from MARS hydrophone Aug 17!
- 901602 - Data TAG
- 901603 - Video TAG
  - Work on Dev Box with Peter and Danelle
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Work on tracking pipeline
  - Preparation for overview presentation and project meeting with video lab staff Aug 17.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Group meeting Aug 17.
  - AWS (Allyson, Emmitt, Ted) visit Tuesday Aug 23 2022
- Out of Office
  - Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 32

- 901502 - Soundscape Research and Education
  - Team meeting
  - Alexa Skill user support
  - Daily spot monitoring of Alexa Skill Ocean Soundscape live stream
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Intern Manuel Gozzi meetings. Presentation and final report preparation.
  - Continued testing updates to batch processing pipeline
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Intern Symposium day August 10.

- Out of Office
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 31

- 901502 - Soundscape Research and Education
  - Completed test and release to production (public) [Amazon Alexa Skill MBARI Ocean Soundscape](#) update with [current live stream link](#) and updated DynamoDB user log.
  - New Alexa skill developer console development environment implemented including Alexa-hosted code and test.
  - Tested against Alexa Echo Dot device; production test and monitoring via second Alexa Echo Dot device.
  - John Ryan tested the production release via Alexa Echo Show device.
- 901602 - Data TAG
- 901603 - Video TAG
  - Reading proposals
- 901618 - Pelagic-Benthic Coupling
  - Project update meeting with Paul McGill
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Conference call and working session with Ted Zamborsky, AWS, on EFS charges and SageMaker Studio
  - Continued work with intern Manuel Gozzi, who presents Weds August 10.
  - Continued testing updates to the batch processing pipeline.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 30

- 901502 - Soundscape Research and Education
  - Continued work on Alexa Skill
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work with intern Manuel Gozzi. He is working on final report and presentation.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

- Alexa Live 2022 (virtual) July 20. PDT
- Registered for Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
- Vacation (international) Sept 12 - Oct 1 2022
- Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
- Vacation (international) Oct 9 - 19 2022
- Vacation October 21-23 2022 (Southern California)

## Week 29

- 901502 - Soundscape Research and Education
  - Working on upgrading Alexa Skill
- 901602 - Data TAG
- 901603 - Video TAG
  - Starting to read proposals 2023
  - Installed new UPS on DevBox.
  - DevBox updated to Cuda 11.7 – working great. Tested with yolov5
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work with intern Manuel Gozzi
  - Continued work on batch processing testing
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Alexa Live 2022 (virtual) July 20. PDT
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 28

- 901502 - Soundscape Research and Education
  - Continued reading and training on Alexa Skill
- 901602 - Data TAG
- 901603 - Video TAG
  - Proposal work
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Proposal work
- 902005 - VARS Annotation Assistance
  - Proposal work
  - Continued good progress by intern Manuel Gozzi. He is working in AWS SageMaker Studio with yolov5 and wandb
  - Test runs of batch pipeline code planned for next week.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Proposal work
- Out of Office

- CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
- Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
- Vacation (international) Sept 12 - Oct 1 2022
- Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
- Vacation (international) Oct 9 - 19 2022
- Vacation October 21-23 2022 (Southern California)

## Week 27

- 901502 - Soundscape Research and Education
  - Digging into Alex Skill and DevOps best practices
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continuing work with Intern Manuel Gozzi. Great progress!
  - Continuing work with Danelle on testing batch processing. Working through a remaining issue.
  - 2023 follow-on work discussions with Steve Haddock and Danelle.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022
  - Vacation October 21-23 2022 (Southern California)

## Week 26

- 901502 - Soundscape Research and Education
  - Spinning up on Alexa Skill devops
- 901602 - Data TAG
- 901603 - Video TAG
  - Reading recent papers.
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued testing and production run of VAA batch processing.
  - Continued work with Intern Manuel Gozzi. Great progress.
  - Discussed road-map and 2023 potential applications/project work with Steve Haddock.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
  - Vacation (international) Sept 12 - Oct 1 2022
  - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
  - Vacation (international) Oct 9 - 19 2022

- Vacation October 21-23 2022 (Southern California)

## Week 25

- 901502 - Soundscape Research and Education
  - Spinning up on Alexa Skill task
- 901602 - Data TAG
- 901603 - Video TAG
  - Attended two 1 day workshops at CVPR (virtual) June 19, 20.
  - Searching for relevant papers at CVPR, to read and watch presentations.
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued testing Batch processing pipeline with Danelle.
  - Proposal discussions.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Proposal discussions.
  - Engr monthly meeting
  - Reviewed paper for *Frontiers in Marine Science*
- Out of Office
  - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
  - Marine Imaging workshop 3 - 7 Oct 2022 CEST Brest, France (GMT+2)
  - Vacation October 21-23 (Southern California)

## Week 24

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
- 901618 - Pelagic-Benthic Coupling
  - Working session with Paul McGill on latest laser measure code release. Paul has the code, and the calibration files. Code checked into bitbucket.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued testing of the batch processing pipeline.
  - Continued work with intern Miguel Gozzi.
  - Team meeting via teleconf.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Director's Dialog
  - Group meeting
  - 2023 budget request
- Out of Office
  - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
  - Marine Imaging workshop 3 - 7 Oct 2022 CEST Brest, France (GMT+2)
  - Vacation October 21-23 (Southern California)

## Week 23

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Working sessions with intern Manuel Gozzi.
- 901618 - Pelagic-Benthic Coupling
  - Working session on Laser Measure with Paul McGill June 9
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued work on testing ECS/SQS batch processing video files with yolov5-deepsort detection and tracking
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
  - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
  - Marine Imaging workshop 3 - 7 Oct 2022 Brest, France

## Week 22

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Abstract submitted to Marine Imaging Workshop Oct 2022
- 901618 - Pelagic-Benthic Coupling
  - Met with Dan Davis offsite. Received the latest release of Laser Measure. Installed and went through an extensive demo and walkthrough using our June 2021 dive data.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued project work. Testing new Docker image and production workflow.
  - Team meeting 5/31
  - Meeting with Intern Manuel Gozzi to develop project plan
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office
  - Working from home this week

## Week 21

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
  - Scheduling offsite meeting with Dan Davis to get update on latest Laser Measure matlab code.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Project team meeting. Paul R. will be loading Planktivore images into RIMS this week.
- 902005 - VARS Annotation Assistance
  - Continued work on project assignments
  - Weekly Team meeting

- 902202 - MBARI Cloud Integration Exploration
  - Attending selected sessions of AWS Non-profit summit virtually.
- Overhead
  - Covid-19 PCR test May 23. ArcPoint.
  - Project update presentation.
- Out of Office
  - Working from home this week

## Week 20

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Read 2023 Abstracts
  - Attending abstract presentations May 19.
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued project work.
  - Weekly team meeting.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Moved computer out of B109. Running in Axxx
- Out of Office

## Week 19

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continue VAA project work. Updates to inference script processor.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Viewed recording of 2023 Project Proposal workshop
  - Viewing some DockerCon 2022 presentations
- Out of Office

## Week 18

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Attended selected sessions and a workshop at ICLR 2022 (virtual)
- 901618 - Pelagic-Benthic Coupling
  - Dan Davis has an updated version of LaserMeasure to bring to MBARI for us to install and test.
  - Duane to process dive images through zhang calibration (to compare with raw images in laser measure)
- 901915 - Improving the Impact of MBARI's Data

- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Project work.
  - Team discussed 2023 project trajectory (902005 ends in 2022)
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 17

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 16

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Continued runs of AWS sagemaker processing jobs to nail down parameters, ENV variables, instance types, performance, cost. Reproduce Lonny colab results in AWS.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Group meeting
  - Docker training
- Out of Office

## Week 15

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
  - Continued communications with Dan and Paul on project work. Plan to apply Zhang calibration against frame grabs captured from June 21 2021 reference dive for comparison with results from uncorrected frame grabs. Preparing for Laser Measure code update from Dan.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Project meeting
- 902005 - VARS Annotation Assistance
  - Completed deepsortyolotracking model sweep.
  - Preparing for summer intern.

- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Project update, group meeting
- Out of Office
  - Called for jury duty April 18- ???

## Week 14

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Participated in FathomNet workshop
- 901618 - Pelagic-Benthic Coupling
  - Continued work on laser measure. Harvested 48 framegrabs from transect footage of June 21, 2021 dive for analysis using calibrated laser measure program. The team will be analyzing these images.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
- 902005 - VARS Annotation Assistance
  - Parameter sweeps and model variant runs of deepsortyolov5 against fully annotated benthic transect video analyzed by Linda Kuhn and intern Peyton Lee in 2020.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 13

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Plan to participate in FathomNet workshop March 31-April 1.
- 901618 - Pelagic-Benthic Coupling
  - Meetings with Dan Davis and with Paul McGill. We plan to analyze dive data using the calibration that Dan and Paul have developed. Working on plan to document system and prepare for publication and release.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting March 28. Waiting for images to test Shore-side data system. Should be pretty soon now!
- 902005 - VARS Annotation Assistance
  - Testing deepsort-yolov5-tracker continues. Ran Benchmark video from our summer intern 2020 Peyton Lee. Next step is to compare tracker performance with his hand-annotation results, and to prepare sweeps with different parameter settings.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - DEI workshop.
- Out of Office

## Week 12

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling

- Meeting with Dan Davis on his progress with laser measure and our most recent dive data and calibration
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting March 21. Eric O. and Paul R. have released a copy of RIMS shoreside software running on DeepRip for project use.
- 902005 - VARS Annotation Assistance
  - Lots of testing and refinement of processing job script and docker image. Testing fix from maintainer for "t5" bug in deepsort-yolov5-tracker
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - DEI training session March 24.
  - Virtual Nvidia GTC 2022 conference this week; attending selected sessions on Nvidia ML topics.
- Out of Office

## Week 11

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting March 14. Eric Orenstein has RIMS image database system and RIMS viewer (web front end front) installed and up and running on DeepRip.
- 902005 - VARS Annotation Assistance
  - Worked on refinement of processing job script for early production use, and build of deepsort-yolov5-tracker docker image for debugging. Both were released to the team after testing.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Paper review for Frontiers in Marine Science. Docker training work.
- Out of Office

## Week 10

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting March 7.
- 902005 - VARS Annotation Assistance
  - Team working session March 3. Released python command line script to initiate AWS SageMaker processing jobs of deepsort-yolov5 detect and track model against M3 videos uploaded to AWS S3. Script updated to add upload from Titan M3 directly to S3, and to upload from Titan M3 and Process in one command line. Installation procedure and running tested by team.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Attended NOAA FathomNet presentation.
- Out of Office

## Week 9

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Reading intern application packages for potential VideoTAG/VAA project internship. Due Mar 2.
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting Feb 28.
  - Preparing for further work on RIMS shoreside software with Paul R. and Eric O.
- 902005 - VARS Annotation Assistance
  - Explored CDK and Lambda for project work
  - Team meeting March 1
  - AWS ProServe meeting March 2.
  - Working session planned for March 3 afternoon. Preparing for that working session.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Chris Scholin presentation Feb 28.
  - Group meeting March 2.
- Out of Office

## Week 8

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
  - Working session with Paul M. and Dan Davis at MBARI on laser measure status and plans. Goal is to write a paper this year.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Working session with Paul R. and Eric O. on planktivore shore-side software, installed on DeepRip. The software is shared with EyeRIS LRAUV project. Next steps are to get updates checked-in, front end debugged, and then rebuild and document (developer doc and user doc). Long-term, look to build as docker containers...
- 902005 - VARS Annotation Assistance
  - Reviewing AWS VPC for work on pipelines.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 7

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
  - Project meeting with Paul McGill and Dan Davis rescheduled to Feb 17 at MBARI.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting Feb 14.
  - Shoreside software discussion with Paul R. and Eric O. Feb 15.

- Reviewing Django, nginx, Gunicorn, and Planktivore repository on MBARI bitbucket in preparation for sprint Weds Feb 23 on preparing and documenting shoreside web server for Planktivore images.
- 902005 - VARS Annotation Assistance
  - Team meeting Feb 15. Focus on the processing pipeline.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 6

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Monthly NOAA AIASI telecon Feb 7; Kakani presented FathomNet to the participants.
- 901618 - Pelagic-Benthic Coupling
  - Scheduling on-site meeting with Paul M. and Dan D. to work out year plan and next steps.
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Reported, in brief, to team on ZFS at weekly project meeting Feb 7.
  - Eric O., Paul R and Duane scheduling meeting to go over planktivore database tool (formerly used at SIO) to set up on DeepRip. Eric has established a bitbucket repository, and started build on DeepRip.
- 902005 - VARS Annotation Assistance
  - Continuing deepsort test runs.
  - Very useful meeting the AWS ProServe team Feb 8 on cloud formation tools (a way to build a processing pipeline). Reading about the Cloud Development Kit (CDK) and how to write code to configure cloud resources.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 5

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
  - Discussions and meeting with Paul McGill. Planning way forward.
  - Plan team meeting week of Feb 7
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Team meeting Jan 31.
  - Looking at zfs file system and Ubuntu as requested by Project Manager
- 902005 - VARS Annotation Assistance
  - Ran cpu-based instance tests with battery of video files using CSRT detect-track pipeline
  - Running gpu-based instance tests of battery of video files using new Deep-sort detect-track pipeline. So far so good (one bug in the underlying algo implementation found – Kevin B. has identified a fix from the maintainers).
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Engr dept meeting Feb 1.
  - Group meeting Feb 2.
- Out of Office

## Week 4

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Reading Meta AI's recent paper "data2vec: A General Framework for Self-supervised Learning in Speech, Vision and Language". Source code and models for ViT portion of data2vec planned to be released by Meta AI...
- 901618 - Pelagic-Benthic Coupling
  - Touching base with Paul M. on 2022 project goals and timeline
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Weekly status meeting Jan 24.
  - Plan to meet with Paul R. and Eric regarding updated SPCconvert software to use for viewing Planktivore images
  - Team discussed need for test images with appropriate filenames and metadata for software testing
- 902005 - VARS Annotation Assistance
  - Project meeting Jan 20
  - Running tracking tests 2K, 4K videos, CPU-only instances
  - Discussions on architecture and 2022 plans and goals
  - Teleconference with AWS Proserve team regarding automation and scaling
  - Built m3-quickstart on my workstation
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Annual performance discussion
- Out of Office

## Week 3

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Status meeting planned for Jan 24
- 902005 - VARS Annotation Assistance
  - Spinning up work on testing of Yolov5 detections/tracking with updated processing image and tracking parameters
  - Reading up on Apache airflow...
- 902202 - MBARI Cloud Integration Exploration
  - Teleconference with AWS folks scheduled for next week Jan 26
- Overhead
- Out of Office

## Week 2

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
- 901603 - Video TAG
  - Reviewing AWS SageMaker Pipelines
  - Checking updates to FAIR unsupervised learning efforts
- 901618 - Pelagic-Benthic Coupling

- 901915 - Improving the Impact of MBARI's Data
  - Looked into AWS SageMaker Canvas “no-code” ML tool
- 902004 - Planktivore
  - Project kick off meeting Jan 12.
  - Engineering meetings planned weekly starting Jan 24.
- 902005 - VARS Annotation Assistance
- 902202 - MBARI Cloud Integration Exploration
- Overhead
- Out of Office

## Week 1

- 901502 - Soundscape Research and Education
- 901602 - Data TAG
  - Kick off this week
- 901603 - Video TAG
- 901618 - Pelagic-Benthic Coupling
- 901915 - Improving the Impact of MBARI's Data
- 902004 - Planktivore
  - Kick off week of Jan 10
- 902005 - VARS Annotation Assistance
  - Continuing work on VAA testing with Danelle and Kevin B.
- 902202 - MBARI Cloud Integration Exploration
- Overhead
  - Continue review of selected AWS re:Invent conference sessions: SageMaker Canvas, new g5 instances, SageMaker Studio upgrades, etc.
- Out of Office