

Kevin Barnard

Week 51

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Vacation Dec 26, 2023 – Dec 28, 2023

Week 50

- 500055 - VARS, M3/RS, DSG
 - Continued working on VARS GridView. Finished implementing:
 - Packaging configuration with Apple code signing and notarization (thanks Joe!)
 - Show all, show verified, show unverified toggles
 - Bring Sharktopoda video player window top-level on open
 - Maintain sort order across updates
 - Sort by bounding box proposal confidence
 - Experimented with visual similarity indices, image hash-based clustering
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
 - Started working on YOLOv8 → VARS data loader
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Vacation Dec 26, 2023 – Dec 28, 2023

Week 49

- 500055 - VARS, M3/RS, DSG
 - Implemented several features for VARS GridView
 - Image caching
 - Sharktopoda 2 bounding box scaling
 - Visual improvements to grid view ROI widgets
 - Split label behavior into label, verify, unverify
 - Arrow key grid view controls
 - VARS observer in image details
 - Side taskbar
 - Bring Sharktopoda 2 video windows top-level on open
 - Sort by verifier
 - Customization of selection highlight colors
 - Map concepts to VARS KB primary names

- Resolved issue with FreeTDS bug in TDS 7.3 datetime2 parsing
- Started planning features for 2024 VARS GridView rewrite
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Planning for ONC collaboration
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Continued support for CMS development
- Overhead
- Out of Office

Week 48

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
 - CSIRO: Oct 20, 2023 – Nov 5, 2023
 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 9, 2023

Week 47

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
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 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
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 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 9, 2023

Week 46

- 500055 - VARS, M3/RS, DSG
 - Assisted with Marimba software development at CSIRO
 - Investigated reported issue about VARS observer changing via VARS GridView
 - Several fixes & improvements to VARS GridView
 - Fix issue of framegrab bounding boxes using video
 - Autorange image view only on image change
 - Apply default chronological sort
 - Add icons for “open settings” and “query” actions
 - Sharktopoda 2 integration working
- 901809 - Deep Sea Bioinspiration

- 902002 - FathomNet
 - Met with ONC to discuss potential collaboration
- 902204 - Scalable Robotics
 - Participated in Fulmar cruise
 - Wrote ROS2 TF → LCM CoMPAS odometry republisher node
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Supported CMS planning & development
- Overhead
- Out of Office
 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
 - CSIRO: Oct 20, 2023 – Nov 5, 2023
 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 9, 2023

Week 45

- 500055 - VARS, M3/RS, DSG
 - Fixed VARS GridView issue with bounding boxes on framegrabs re-capturing frame from video
 - Sorted out video/image reference association in VARS GridView
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
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- Overhead
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 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
 - CSIRO: Oct 20, 2023 – Nov 5, 2023
 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 9, 2023

Week 44

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
 - CSIRO: Oct 20, 2023 – Nov 5, 2023
 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 7, 2023

Week 43

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2

- Overhead
- Out of Office
 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
 - CSIRO: Oct 20, 2023 – Nov 5, 2023
 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 7, 2023

Week 42

- 500055 - VARS, M3/RS, DSG
 - Began overhaul of VARS GridView querying/object graph management
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Participated in LASS cruise Oct 10, 2023 – Oct 12, 2023
 - Calibrated MiniROV stereo cameras
 - Calibrated LASS stereo cameras
 - Prepared MiniROV SLAM launch configuration for cruise starting Nov 3, 2023
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Defined requirements for FathomVerse Content Management System (CMS) development
 - Fixed all broken builds and runtimes of HF spaces in FathomNet model zoo
- Overhead
- Out of Office
 - LASS on Ventana/Rachel Carson cruise: Oct 10, 2023 – Oct 12, 2023
 - CSIRO: Oct 20, 2023 – Nov 5, 2023
 - MiniROV/Fulmar cruise: Nov 6, 2023 – Nov 7, 2023

Week 41

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - CSIRO: Oct 20, 2023 – Nov 5, 2023

Week 40

- 500055 - VARS, M3/RS, DSG
 - Implementing handling of different-resolution source video (i.e., rescaling) in m3-download dataset generation
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Finished and tested implementation of multiple candidate registration for global loop closure in RTAB-Map
 - Created launch configuration files for LASS deployment Oct 10, 2023 – Oct 12, 2023
 - Collected calibration datasets for MiniROV DSPL stereo cameras
 - Resolved several RTAB-Map/LCM to ROS bridge bugs and coordinate frame convention issues

- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Discussed FathomVerse CMS development timeline
- Overhead
- Out of Office
 - CSIRO: Oct 20, 2023 – Nov 5, 2023

Week 39

- 500055 - VARS, M3/RS, DSG
 - Fixed IPv4/IPv6 UDP socket issue in Sharktopoda client library
 - Implemented feature requests in VARS GridView
 - Handle annotations made on different-resolution source video
 - Refit image detail view on ROI selection change
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Implemented visual loop closure multi-candidate registration
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Ran OVAI Programmer Working Group meetings
 - Gave OVAI-wide FathomNet product update
- Overhead
 - Raben focus group
- Out of Office
 - CSIRO: Oct 20, 2023 – Nov 5, 2023

Week 38

- 500055 - VARS, M3/RS, DSG
 - Added pass-through for confidence field from ML inference to VARS bounding boxes
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Began implementing feature to consider multiple candidates for loop closure in RTAB-Map
 - Fixed some bugs in RTAB-Map SLAM pipeline
 - Tested loop closure detection in May 2023 LASS dataset
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Led OVAI PWG discussion 9/20
- Overhead
- Out of Office

Week 37

- 500055 - VARS, M3/RS, DSG
 - Resolved question of off-image bounding boxes in VARS
- 901809 - Deep Sea Bioinspiration
 - Submitted DeepSTARia to OSM
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Solved issue with invalid TF2 transforms and failing initial guess for RTAB-Map SLAM visual odometry

- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Set up CI/CD semantic versioning and release for fathomnet-py
 - Tacked several fathomnet-py issues
 - Met with Open World Object Detection folks
 - Discussed LLM integration for FathomNet querying via natural language
- Overhead
- Out of Office

Week 36

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Provided D1376 video and bounding box annotations to University of Washington CS department for evaluation of VOCALExplore on VARS data
- 902204 - Scalable Robotics
 - Completed investigation of visual loop closure issues
 - Straightened out branches in several GIM SLAM-related repositories
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Described greenfield development tasks for FathomVerse Content Management System (CMS)
- Overhead
- Out of Office

Week 35

- 500055 - VARS, M3/RS, DSG
 - Rolled out several VARS GridView feature requests
 - Continued integration of VARS GridView with Sharktopoda 2
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Gardened FathomNet community feedback issue tracker
 - Populated web UI issues to be tackled in the near future
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
 - Met with team to review ML workflow and outline improvements
 - Scoped process for ingesting bounding box proposals into VARS
 - Reviewed Lonny's code
- DQ2209 - Ocean AI 2
 - Scoped FathomVerse CMS functional requirements
- Overhead
- Out of Office

Week 34

- 500055 - VARS, M3/RS, DSG
 - Completed and released VARS GridView feature requests
 - Sort by multiple values
 - Delete observations with localizations
 - Setting for font size
 - Context menu in image pane
 - Click to select box from image pane

- Drag-select localizations from grid view
- Investigated changing observer when box changes → not the case
- Continued integration of VARS GridView with Sharktopoda 2
- Remapped embargoed concepts in mbari315k_yolov8 model for public release
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Uploaded MBARI 315k YOLOv5 and v8 models to FathomNet model zoo
 - Created HF space for FathomNet2023 Kaggle challenge baseline YOLOv8 model
- 902204 - Scalable Robotics
 - Continued investigating loop closure issues
- 902304 - Piscivore Cam
 - Made some improvements to Lonny's video processing code
- DQ2209 - Ocean AI 2
 - Continued user storyboarding process
- Overhead
- Out of Office

Week 33

- 500055 - VARS, M3/RS, DSG
 - Investigating "vars-part-ingest" bounding box quality in VARS
 - Implemented feature requests for VARS GridView
- 901809 - Deep Sea Bioinspiration
 - Provided feedback for several intern and lab presentations
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Continuing to investigate loop closure issues on May 2023 LASS SLAM dataset
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Prepared content for FathomNet AI/MBA volunteer workshop
- Overhead
- Out of Office

Week 32

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Vacation August 7-11

Week 31

- 500055 - VARS, M3/RS, DSG
 - Released VARS GridView changes
 - Query on bounding box association JSON fields
 - Sort on multiple fields
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet

- 902204 - Scalable Robotics
 - Investigated loop closure issues on May 2023 LASS datasets
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Vacation August 7-11

Week 30

- 500055 - VARS, M3/RS, DSG
 - Made some progress on time synchronization issue
- 901809 - Deep Sea Bioinspiration
 - Preparing for Open House
- 902002 - FathomNet
 - Started migrating models from GitHub/Zenodo to Hugging Face
- 902204 - Scalable Robotics
 - Identified issues with visual loop closure detection in RTAB-Map
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - QSCP retrospective/planning discussion
- Overhead
- Out of Office
 - Vacation August 7-11

Week 29

- 500055 - VARS, M3/RS, DSG
 - Implementing several features requested by VL into VARS GridView
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Revisiting tasks related to GIM WP-1 for visual SLAM
 - Issues with loop closure/feature association
 - Long-survey performance
 - Multi-session capabilities of RTAB-Map
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Hosted OVAI-PWG discussions
 - Started migration of model zoo to Hugging Face
- Overhead
- Out of Office

Week 28

- 500055 - VARS, M3/RS, DSG
 - Investigated timestamp difference between Sharktopoda 2 and Beholder
 - Added query filters for observation activity and group
 - Implemented multiple sort
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam

- DQ2209 - Ocean AI 2
 - Coordinated OVAI PWG meeting
- Overhead
- Out of Office

Week 27

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - CVPR (Vancouver) June 17-25
 - Vacation June 30-July 9

Week 26

- 500055 - VARS, M3/RS, DSG
 - Implemented support for video frame localizations (i.e., without a framegrab) in m3-download for next training run
 - Continued integration of Sharktopoda 2 and VARS GridView
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Finished FathomNet v1.0 features; released updated site
- 902204 - Scalable Robotics
 - Scoped range-based SLAM (with multibeam sonar) in collaboration with GIM Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - CVPR conference; presentation, workshop
 - Prepared program-wide product update
- Overhead
- Out of Office
 - CVPR (Vancouver) June 17-25
 - Vacation June 30-July 9

Week 25

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - CVPR (Vancouver) June 17-25
 - Vacation June 30-July 9

Week 24

- 500055 - VARS, M3/RS, DSG
 - Several upgrades to vars-gridview
 - Wrote sharktopoda-client-py for Sharktopoda 2 UDP controls
 - Added group and activity filtering capabilities to m3-download
 - Investigated reported issue of vars-gridview changing observation fields
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - CVPR (Vancouver) June 17-25
 - Vacation June 30-July 9

Week 23

- 500055 - VARS, M3/RS, DSG
 - Implemented Python client for Sharktopoda 2 video player, to support VARS GridView integration
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Prepared DOEST presentation
 - Supported fixes to RTAB-Map
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - FathomNet backend development, frontend support
 - Supported QSCP development; planned MVP experiments
- Overhead
- Out of Office
 - CVPR (Vancouver) June 17-25
 - Vacation June 30-July 9

Week 22

- 500055 - VARS, M3/RS, DSG
 - Discussed ML/DSG priorities
 - Scoped features for vars-gridview to aid in ML workflow
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Implemented several features for v1.0 launch
 - Audit bounding box history by several keys
 - Follow concepts/marine regions/users
 - Comment on bounding boxes
 - NSF reporting
- 902204 - Scalable Robotics
 - RTAB-Map development support
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - QSCP support, documentation
- Overhead

- Out of Office
 - Sick 5/30-6/1

Week 21

- 500055 - VARS, M3/RS, DSG
 - Working on vars-kb-server rewrite
 - Scoped integration of clearvision/imagehash capabilities into vars-gridview
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Working on finishing up community feature support in fathomnet-rest-api
- 902204 - Scalable Robotics
 - Calibrated MiniROV stereo cameras after remounting to match data from Fulmar cruises
 - Support and fixes for RTAB-Map SLAM ahead of DOEST demo
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Collected unlabeled image dataset for QSCP from Kakani's dives
 - Ran OVAI programmers working group discussions
 - Scoped and planned efforts for FathomVerse MVP/QSCP experiments
- Overhead
- Out of Office

Week 20

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Worked on FathomNet beta-2.3 backend tasks
- 902204 - Scalable Robotics
 - Participated in RC cruise; fixed lots of issues with RTAB-Map SLAM
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Led discussion with OVAI Programmers Working Group
- Overhead
- Out of Office

Week 19

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Fulmar 2023-04-25, 2023-04-28
 - Rachel Carson 2023-05-10,11,12

Week 18

- 500055 - VARS, M3/RS, DSG
 - Started reimplementing vars-kb-server in Scala 3, standalone from vars-kb core

- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Performed MiniROV deployments on Fulmar
 - Ran analysis/validation of MiniROV data
 - Preparing for LASS deployments on the Carson
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Fulmar 2023-04-25, 2023-04-28
 - Rachel Carson 2023-05-10,11,12

Week 17

- 500055 - VARS, M3/RS, DSG
 - Started scoping DSG overhaul, knowledge base server/client
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Completed Mola and MiniROV stereo camera calibrations
 - Writing up documentation and helper scripts for new camera calibration library
 - Dockerized lcm-websocket-server, wrote CI pipeline for build & push to Docker Hub
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Fulmar 2023-04-25

Week 16

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
 - Resubmitted DeepSTARia paper to Science Robotics
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Fixing issues with stereo extrinsic calibration on new MiniROV and Mola stereo cameras
 - Provided calibration datasets to Technion Israel Institute of Technology
 - Scoped rework of RTAB-Map (+ ROS2 wrapper) to support arbitrary constraint specification to GTSAM factor graph backend
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Rewrote codebase for QSCP using PostGraphile
- Overhead
- Out of Office

Week 15

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Working on calibrating new stereo cameras

- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Supporting work for QSCP service
- Overhead
- Out of Office

Week 14

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Working on ORCID authentication/attribution for FathomNet
- 902204 - Scalable Robotics
 - Several fixes to lcm-websocket-server
 - Dockerizing lcm-websocket-server
 - Calibrating new stereo cameras
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - NSF program director visit
- Overhead
- Out of Office
 - Volunteering at FRC competitions for York school, 2023-03-31, 2023-04-06, 2023-04-07
 - Jury duty 2023-04-03

Week 13

- 500055 - VARS, M3/RS, DSG
 - Fixed open video from vars-gridview
 - Fixed loading of ML-generated annotations in vars-gridview
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Set up development environment for FathomNet/OVAI QSCP service
- 902204 - Scalable Robotics
 - Wrote LCM WebSocket server for future webapp
 - Implemented pose estimation of AprilTags for Mola ground truth pose
 - Ran ROS2 RTAB-Map on Pacific Northwest full survey dataset
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Volunteering at Bayview Academy Tech Fest, 2023-03-23
 - Volunteering at FRC competitions for York school, 2023-03-31, 2023-04-06, 2023-04-07
 - Jury duty 2023-04-03

Week 12

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Gave presentation of VARS & FathomNet at Ifremer FUTUROBS workshop
- 902204 - Scalable Robotics
 - Met with potential collaborators for off-center dome port camera calibration
 - Working on fixing GIM code for RTAB-Map ROS2 online execution from recorded LCM logs

- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - Volunteering at Bayview Academy Tech Fest, 2023-03-23

Week 11

- 500055 - VARS, M3/RS, DSG
 - Validated class list for 315k model
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Ran analysis on camera intrinsic calibration to validate GIM reports on Mola 4K cam
 - Dockerized RTAB-Map ROS wrapper, tested
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - 2/27-3/10 CSIRO visit

Week 10

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - 2/27-3/10 CSIRO visit

Week 9

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - 2/27-3/10 CSIRO visit

Week 8

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2

- Overhead
- Out of Office

Week 7

- 500055 - VARS, M3/RS, DSG
 - Implemented several feature requests in vars-gridview
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Planned milestone 2.3 tasks Feb-April
- 902204 - Scalable Robotics
 - Wrote Python library for CoMPAS LCM types; to be published on PyPI
 - Wrote AprilTag detection script
 - Collected dataset with Mola to test AprilTag detection/pose estimation
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
 - Assisted with RRE interviews 2/14
- Out of Office

Week 6

- 500055 - VARS, M3/RS, DSG
 - Implementing Sharktopoda 2 remote protocol in Python
- 901809 - Deep Sea Bioinspiration
 - Revised ML-Tracking paper
- 902002 - FathomNet
 - Prep for upcoming workshop Feb 22 & 23
- 902204 - Scalable Robotics
 - Performed Mola stereo calibration
 - Working on camera calibration library
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office

Week 5

- 500055 - VARS, M3/RS, DSG
 - Chatted with Brian to figure out BoxJelly & Cthulhu upgrades for new video player (Sharktopoda 2)
 - Worked on Cthulhu upgrade for new remote protocol
- 901809 - Deep Sea Bioinspiration
 - Started to rework ML-Tracking paper per feedback
- 902002 - FathomNet
 - Met to plan February FathomNet workshop
 - Wrote steps to publicly host images via Firebase/Google Cloud Storage for contributors
- 902204 - Scalable Robotics
 - Deployed Mola in test tank to collect SLAM dataset for GIM
 - Calibrated Mola FLIR stereo cameras
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office

Week 4

- 500055 - VARS, M3/RS, DSG
 - Explored YOLOv8 as an option for future object detection models
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
 - Calibrated Mola 4K camera
 - Added fisheye calibration to camera calibration library
 - Collected calibration dataset from Mola in TT
 - Wrote Dash app for visualizing live position data from Mola USBL via LCM
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
 - Situating new office
- Out of Office

Week 3

- 500055 - VARS, M3/RS, DSG
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Worked on packaging vars-localize for Smithsonian volunteers
- 902204 - Scalable Robotics
 - Calibrated Mola 4K camera using new calibration library
 - Several meetings for 2023 planning
 - Set up new repository for LCM-related tooling
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
 - Put together example image datasets for game developers
- Overhead
 - Finished up ROV CTD transition to Karen
 - Provided performance feedback
- Out of Office
 - COVID: 1/3-1/20

Week 2

- 500055 - VARS, M3/RS, DSG
 - Backup for Brian on vacation
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
 - Investigated PM tools: GitHub projects, Notion, misc. gantt integrations
- 902204 - Scalable Robotics
 - Kickoff meeting; established sub-projects, milestones, project organization
 - Wrote lcmlog-py library for reading/writing LCM logs
 - Spliced images into LCM logs for GIM
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - COVID: 1/3-1/12

Week 1

- 500055 - VARS, M3/RS, DSG
 - Working on upgrading Cthulhu for new Sharktopoda 2 remote control
- 901809 - Deep Sea Bioinspiration
- 902002 - FathomNet
- 902204 - Scalable Robotics
- 902304 - Piscivore Cam
- DQ2209 - Ocean AI 2
- Overhead
- Out of Office
 - COVID: 1/3-1/12