

Brian Schlining

Week 30

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - Added [generic parsers for CSV and MBARI's dat format](#) to support data ingest in the REST API.
 - Working on [ingest and management of raw ship data](#) formats.
- 902604 - VARS-ML Vector Database
- Overhead
 - Assist OSU with media registration in their VARS system.
- Out of Office
 - Jul 13 - 17: Vacation
 - Jul 27 - Aug 6: Vacation

Week 29

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - Jul 13 - 17: Vacation
 - Jul 27 - Aug 6: Vacation

Week 28

- 500055 - VARS, M3/RS, DSG
 - Addressed [issues when localizing annotations using VARS Annotation and Sharktopoda](#).
 - New releases:
 - <https://github.com/mbari-org/vars-annotation/releases/tag/2.4.1>
 - <https://github.com/mbari-org/vcr4j/releases/tag/5.3.6> (maven central)

- <https://github.com/mbari-org/commons> (Java maven central, [Scala maven central](#))
- Added [symmetric encryption to Raziel](#) to support storage of shared login credentials locally. A user supplies credentials to Raziel, and if valid, Raziel returns an encrypted file that can be saved locally and submitted as login credentials by other apps. Deployed to [gehenna](#) and [m3](#).
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - Updated [code that migrates the existing database to the new design](#) to match changes in the database schema.
 - Investigating the use of SQL Server's [columnstore indexes](#) for the data tables that hold many 10s of millions of records (e.g. CTD, Navigation, etc). Running load tests against <https://github.com/mbari-org/expd-rest-api>. (Access to data will be [here](#))
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - Jul 13 - 17: Vacation
 - Jul 27 - Aug 6: Vacation

Week 27

- 500055 - VARS, M3/RS, DSG
 - [Reworked gehenna.shore.mbari.org's](#) SSL certificate to align with IS's [new recommendations](#).
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - Follow-up with NCEI regarding FathomNet's archive data submission.
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - Investigating [data pipelines](#) for new EXPD. Added [data transforms for derived oceanographic data](#) (they were previously in stored procedures).
 - Added endpoints to [emulate the existing data access servlets](#) on coredata.
- 902604 - VARS-ML Vector Database
- Overhead
 - Finished expense reports for MidSEC.
 - Started dialog with [Kerry Howell](#) about setting up VARS in her lab. (It was recommended to her by a lab in Galway using VARS)
 - Started dialog with [Manu Prakash](#) about setting up VARS in his lab. Tentatively scheduled for a visit in August to help set them up.
 - Proposals.
- Out of Office

- Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
- Jun 22 - Jun 26: Vacation
- Jul 27 - Aug 6: Vacation

Week 26

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation
 - Jul 27 - Aug 6: Vacation

Week 25

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation
 - Jul 27 - Aug 6: Vacation

Week 24

- 500055 - VARS, M3/RS, DSG
 - Working on MidSEC presentation
 - Deployed [new Deep-sea Guide internally](#) and [externally](#).
 - Work in prep for releasing the [new external Deep-sea Guide](#)
 - [Addressed video labs request](#) for a method to download large image queries from the VARS Query. Due to browser limitations, [wrote a command line tool](#).

- New release of VARS Annotation ([v2.4.0](#)). This addresses issues with framecapture on very fast computers, misc bugs, and adds features requested by Steve Haddock for at-sea annotation.
- Wrote a python script for Steve Haddock to scrape framegrabs from the VARS [server](#) while at sea.
- Worked with Nancy on 2027 Video Annotation DM proposal
- Fixed issues with framecapture on the David Packard prior to Steve's cruise.
- Investigate issues with merging Mini ROV nav/ctd for dives 116-128.
- Updates to the public VARS orchestration project, [vars-quickstart-public](#), in preparation for MidSEC.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - Reviewed Kevin B's [pull request for worms-server](#). Added a fix for recent changes to the worms data format.
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - Working on 2027 proposal
 - Working with Kevin, Andrew, and Travis on cross-app authentication using Entra.
- 902604 - VARS-ML Vector Database
- Overhead
 - Reviewing submissions to Oceans 2026
- Out of Office
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation
 - Jul 27 - Aug 6: Vacation

Week 23

- 500055 - VARS, M3/RS, DSG
 - Working on a presentation for [MidSEC](#).
 - Updates to [vars-quickstart-public](#) in preparation for MidSEC.
 - Updates to [pythia-python](#) so it can be used behind a shared proxy.
 - Updated the VARS stack on the R/V David Packard
 - Updated the [external embargo SQL for annotations](#) in prep for releasing the [new Deep-sea Guide](#) (DSG) externally. Working through the details of migrating the external DSG from [ione.mbari.org](#) to [calypso.mbari.org](#).
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - Working on the 2027 project proposal.

- 902604 - VARS-ML Vector Database
- Overhead
 - [Registered/archived a Mega Coral Cam data set](#) for Jim Barry's lab to provide a data set for his intern to work on.
- Out of Office
 - May 14, 18: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 22

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - May 14, 18: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 21

- 500055 - VARS, M3/RS, DSG
 - Working on [MidSEC](#) presentation
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - Writing loader to migrate [full coverage annotations from VARS to FathomNet](#)
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - May 14, 18: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 20

- 500055 - VARS, M3/RS, DSG
 - Many, many improvements to the [new Deep-sea Guide](#) (in-development):
<https://gehenna.shore.mbari.org/dsg/#/>
 - Created the [VARS Video Browser](#); a web app for easily viewing videos in a dive. Example:
<https://m3.shore.mbari.org/videobrowser/?name=Doc+Ricketts+1234>
 - [Add improvement](#) to VARS Query allowing downloads to include the major taxa groups in separate columns.
 - [Automated clean up of references](#) in the VARS Knowledgebase
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - [Submitted the first archive package of FathomNet data to NCEI](#).
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - Get [shipdata share access](#) set up for the [expd-dev server](#).
 - Work on supporting file uploads, linking to data in EXPD, and archiving into shipdata
- 902604 - VARS-ML Vector Database
- Overhead
 - Working on presentation for [MidSEC](#)
 - Registered Triton videos in VARS
 - Migrated a [number of repos documentation](#) from mkdocs to zensical (Thanks Carlos for setting that up!)
 - Work with OSU to help with setting up SSL for their VARS installation.
- Out of Office
 - May 14, 18: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 19

- 500055 - VARS, M3/RS, DSG
 - [Added a new automated task](#) to adjust the media start time and duration for all real-time media.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - [Preparing archival package of FathomNet data](#) to submit to NCEI for long-term archiving. The package is a CSV dump of a subset of the database, a DDL to recreate a mini-fathomnet, and a script to rebuild a mini-database from the package contents.
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern

- Adding [additional migrations](#) and improvements to the [REST API](#).
- Added support for uploading and association arbitrary files to expeditions, dives, and people.
- Added support for creating points-of-interest and associating them to expeditions, dives, and devices.
- Working with Kevin Gomes and IS on moving from Duo to Entra for authentication.
- 902604 - VARS-ML Vector Database
- Overhead
 - Updates to [vars-cli](#) code that [merges piscivore annotations with position and CTD to accommodate recent changes in STOQS](#)
- Out of Office
 - May 14: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 18

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 24: Completed the Camino Portuguese - 260km walk from Porto to Santiago de Compestella
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 17

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 24: Completed the Camino Portuguese - 260km walk from Porto to Santiago de Compestella

- Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
- Jun 22 - Jun 26: Vacation

Week 16

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 15

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 14

- 500055 - VARS, M3/RS, DSG
 - Sleuthing [out issue in new kb editor](#) that only occurred in production, not in dev mode.
 - [Migrate Mini ROV annotations](#) into shore system
 - [Upgrade the Mini ROV annotation system](#) to the latest and greatest.
 - Added MBARI specific regions to our marine-regions service. These are used in the [VARS Query](#) and [new DSG](#). Users can just type **MBARI** in the search box to filter for regions that are most relevant to MBARI research.
- 901221 - Midwater Time Series

- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
 - A lot of work updating the design of the new database and supporting infrastructure.
 - <https://github.com/mbari-org/expd-rest-api>
 - <https://github.com/mbari-org/expd-support>
 - <https://github.com/mbari-org/expd-quickstart>
 - Wrote an abstract for extending this project for one additional year.
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 11 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.
 - Jun 22 - Jun 26: Vacation

Week 13

- 500055 - VARS, M3/RS, DSG
 - New release of [VARS Annotation](#) to address some JavaFX version bugs.
 - A number of quality-of-life improvements to the in-development DSG <https://gehenna.shore.mbari.org/dsg>. Also support for on-demand depth and time histograms: <https://gehenna.shore.mbari.org/dsg/#/plots/concept/Pandalus%20platyce ros/Monterey%20Bay%20Region>
 - Added an event bus to VARS to publish CRUD notifications to [nats](#).
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
 - All Station M deployments have been migrated from the old vars system into the current one.
- 902403 - Expedition DB Modern
 - Added data migrations between the existing database and the new design for ROV CTD config related tables, video assets and Waypoints. <https://github.com/mbari-org/expd-support>
 - Refactoring design to allow external files (web hosted) to be attached to expeditions, dives, people and devices. Also refactoring waypoints into points-of-interest that can be associated with dives or expeditions. <https://github.com/mbari-org/expd-rest-api>
 - Added support for publishing notifications for creating/update/delete objects to Nats for notification support.
- 902604 - VARS-ML Vector Database
- Overhead
 - Some support for both DARC and OSU's VARS installations

- Out of Office
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 12

- 500055 - VARS, M3/RS, DSG
 - Work on the [new DSG](#) to add various data plots.
 - Ported [Charbydis](#) from [Helidon](#) to Quarkus and deployed. All VARS services are now either based on [Tapir](#) or Quarkus to simplify maintenance.
 - Updated Raziel to handle Charybdis' new health endpoint format.
 - Added support for admins to make direct SQL calls easily, without requiring users to install additional tooling, in [vars-quickstart-public](#) (VARS orchestration project)
 - Wrote a new [grafana dashboard](#) to improve performance monitoring of core services. This was needed to ensure moving the carbon flux annotations to the current VARS system was not impacting the video labs.
 - Updated [pythia](#) to the latest ultralytics version and deployed the video labs latest yolo v26 model. (See [Demo UI](#))
 - Updates to the [VARS Query](#)
 - More change in VARS Annotation to accommodate changes in mac app codesigning.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - Fixes to external Oni (kb server) to support FathomNet.
- 902111 - Carbon Flux Ecology
 - Running migrations to move legacy image annotations to the new database.
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
 - In order to support data sync, working on adding publishing CRUD notifications to an event bus when annotations are created, updated or deleted.
- Overhead
 - Transitioned DARC to a new vars orchestration project. Finished updating all the VARS services (DARC was several years out of date). Worked with them through handling the changes in the services.
 - Working with Astrid Leitner at OSU to move to the new vars orchestration project. Working through issues getting an SSL cert from their IT department.
 - Updates to <https://miw2026.org/>. Don't forget to register for the Marine Imaging Workshop
- Out of Office

- April 6 - April 24: Vacation
- Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 11

- 500055 - VARS, M3/RS, DSG
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 10

- 500055 - VARS, M3/RS, DSG
 - Updates to the VARS_KB database and [Oni](#) to support the [new Knowledgebase editor](#) app. Added additional [accepted taxa-levels](#) to Oni
 - Fixed issues ([#295](#), [#296](#)) with Media in the VARS_KB database.
 - Added Annotated images pages to the new Deep-sea Guide. Users can toggle between “select” images and random images in the upper-right corner.
<https://gehenna.shore.mbari.org/dsg/#/annotated/images/concept/Pandalus%20platyceros>
 - Added the “Browse Taxonomy” feature to the new Deep-sea Guide:
<https://gehenna.shore.mbari.org/dsg/#/browsetree/concept/object>
 - [Beholder](#) is a service for grabbing images from videos on demand. It gets hammered by some apps like [vars-gridview](#). Made improvements to the [cache](#) to remove potential performance issues.
 - VARS Query now allows users to add a concept hierarchy to each annotation in the search results when they are saved. ([#13](#))
 - The recent update to [search.mbari.org](#) introduced another issue with framegrabs for the video lab that was addressed ([#299](#)).
 - Working on adding support to [vars-quickstart-public](#) to generate Let's Encrypt SSL certificates.
 - The latest macOS (Tahoe 26.3) introduced changes to Apple's code signing requirements. Updated builds of [vars-annotation](#), [jsharktopoda](#), and [mondrian](#) to the latest requirements.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration

- 902111 - Carbon Flux Ecology
 - Investigating timeouts when doing very large bulk inserts into annosaurus on the production database. (They work fine on our testing database). Switched annosaurus and vampire-squid from random UUIDv4 to the new-ish UUIDv7 for primary keys to reduce index fragmentation. Rebuilt database indices. Made optimizations to annosaurus' bulk inserts (See [AnnotationController.scala](#) and [ImagedMomentController.scala](#)).
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
 - Updated the Marine Imaging Workshop 2026 web site. <https://miw2026.org/>
 - Worked with DARC to migrate their VARS orchestration code to [vars-quickstart-darc](#)
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 9

- 500055 - VARS, M3/RS, DSG
 - Update to [Oni](#) to allow additional taxonomic levels as requested by the video lab.
 - Improvements to bulk editing in [VARS Annotation](#)
 - Updates to the [VARS Query](#). The *save results to TSV* action was using the first JSON record in the results to build the column headers, but annotations are sparse data and sometimes the first record was missing fields that were present in other records. This could result in columns, like salinity, not being included in the results.
 - Started a draft revision of MBARI's [public VARS website](#) which is incredibly out of date.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
 - Quite a bit of work to finalize the migration of Station M image annotations from a very old VARS database into our current system.
 - Updates to [vars-legacy-migrator](#) to handle creative naming of Station M deployments.
 - Some Station M deployments contain over 12K annotations. Updated [annosaurus](#) to improve bulk insert performance into the database to accommodate this. Completed this in v1.4.12
- 902403 - Expedition DB Modern
 - Met w/ Kevin Gomes to discuss next steps for development.
- 902604 - VARS-ML Vector Database

- Overhead
 - Created a new [VARS orchestration project](#) for [DARC](#) so they can use our new web-based query and kb editors. This is based off of [vars-quickstart-public](#), which in-turn is based off of the one we use on our ships: [vars-quickstart-mbari](#)
 - Also added [varsq backup](#) and [varsq restore](#) subcommands to both public projects to create and restore from database snapshots.
 - Integrated [pythia-python](#) into the both public projects and added an autofetch of [FathomNet's megalodon](#) model if no user provided model is present. Pythia is integrated with various VARS tools to allow ML assisted annotation.
 - Organized a meeting with DARC next week to upgrade their VARS system.
 - As a member of the Marine Imaging Workshop's science committee, Brian reviewed submitted abstracts.
 - Updated <https://miw2026.org/> with the science committee info.
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 8

- 500055 - VARS, M3/RS, DSG
 - A number of [VARS Annotation releases](#) were published. [This was a major overhaul under-the-hood](#) as well as to the build system. As such, there were a few follow ups to address newly introduced bugs. This also [addresses a long-standing issue when moving large numbers of annotations](#) to different dives or media.
 - Updates to the [vars knowledgebase editor](#) deployed
 - Setting up scheduled [task to convert 4k/HEVC videos to HD/H264 proxies](#) (to support web viewing of 4k videos across different browsers)
 - Added [docs for support tasks](#) that are run using vars-cli
 - New release of [Sharktopoda](#) to address issues on Mac Tahoe
 - New maintenance release of [jsharkopoda](#)
 - Updates to panoptes and nginx configuration to handle 4k framegrabs. The latest framegrabs can weigh in at 40MB.
 - Worked with IS to address issues with migration of framegrabs from atlas to thalassa.
 - Added new support functions to vars-cli for managing media
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - Investigated some quirks with the FathomNet-NCEI pipeline.

- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - Feb 13: Vacation
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 7

- 500055 - VARS, M3/RS, DSG
 - The video lab is working on cleaning up data from VERY old dives (originally annotated in VICKI). There's been a number of tasks to help them out:
 - New features and updates were made in [vars-cli](#), [oni-java-sdk](#), [annosaurus-java-sdk](#), [vampire-squid-java-sdk](#), [annosaurus](#), and [VARS Annotation](#) to support their tasks
 - Updates to VARS Annotation for moving annotations to different media.
 - Major [New release of VARS Annotation \(v2.3.1\)](#) for Mac/Win
 - Upgraded [jsharktopoda](#) to latest JavaFX/JDK version and pushed new release for Mac/Win
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
 - Meeting with Catherine Borremans on lending MBARI expertise (on image management, data management, AI classification, etc) to an EU call to support the Treaty on Biodiversity Beyond National Jurisdiction (BBNJ)
 - Joined the Science Committee for the [Marine Imaging Workshop 2026](#)
 - Create a [doc](#) for using VARS for real-time annotations for SOI
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 6

- 500055 - VARS, M3/RS, DSG
 - Major [updates to the VARS Annotation build](#).

- Updates to [Oni](#) and [Vampire-squid](#) to support new features in the VARS Annotation.
 - Update to external embargo SQL for public annotation data.
 - Updates to service monitoring ([prometheus](#) and [grafana](#))
 - Updates to Oni to support the KB Editor app
 - More fixes to external services running in read-only mode.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
 - Working on abstract for [MidSEC](#)
 - Reviewed a number of abstracts for upcoming conferences.
 - Discussion with Sebastián Rodríguez Martínez about adding CompPAS images to VARS.
- Out of Office
 - April 6 - April 24: Vacation
 - Jun 13 - Jun 19: Midwater Science and Engineering Community Conference, Sweden.

Week 5

- 500055 - VARS, M3/RS, DSG
 - Fixes for [Oni](#), [mbari-org/kb#15](#), [mbari-org/kb#16](#)
 - The server, [ione.mbari.org](#) which runs the external Deep-sea Guide, is slated for retirement (it runs CentOS). [Spun up a new VARS stack](#), [query](#), and the [in-development DSG](#) on ione's replacement, [calypso.mbari.org](#). Changes in this migration include moving the database from the server diene to rhea, updating the embargo SQL, and adding support for calypso to [vars-quickstart-mbari](#).
 - Updates to [annosaurus](#), [vampire-squid](#), and [oni](#) so that they can run in read-only mode (for deployment to support the external query and Deep-sea Guide).
 - Updated the [vars-cli](#) with [vars anno configure-jdbc](#) and [vars expd configure-jdbc](#) commands needed for locally storing database credentials used for some operations such as merging annotation with ship data.
 - Ported [pythia](#) from java to python ([pythia-python](#)) in order to take advantage of [ultralytics](#). Pythia is a web service for running ML inference on images. [UI](#), [API](#)
 - Updating the build for [vars-annotation](#) and integrating auto-generated SDKs to replace bespoke web service clients
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database

- Overhead
 - Did a number of updates to the computer perception to bring it back up to date as a server for pythia.
 - Coordinating with Karen Osborn about a data management / bioinformatics session at [MidSEC](#)
- Out of Office
 - April 6 - April 24: Vacation
 - May 18 - May 22: Marine Imaging Workshop, Gibraltar

Week 4

- 500055 - VARS, M3/RS, DSG
 - [Investigate issues with merging Mini ROV annotations with navigation and CTD](#)
 - Added `change-password` command to the [vars-cli](#)
 - Adding [code to standardize bounding box JSON](#) that's generated by the various tools.
 - Various fixes to the [oni-java-sdk](#) and [annosaurus-java-sdk](#)
 - Published first "official" release of the knowledgebase editor for the video lab to use.
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
 - Fixed issues with merging branches from the VARS knowledgebase with WoRMS data in the [worms-server](#)
- 902111 - Carbon Flux Ecology
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
 - Meeting w/ Tobias Ferreira (NOC) to discuss annotation strategies for the British Oceanographic Data Centre.
 - Updated <https://miw2026.org/>
 - Completed materials for annual reviews.
 - Updated my github repos to be compliant with various open-source licenses.
- Out of Office
 - April 6 - April 24: Vacation
 - May 18 - May 22: Marine Imaging Workshop, Gibraltar

Week 3

- 500055 - VARS, M3/RS, DSG
 - [Major new release of Mondrian](#), an image annotation app.
 - Added [NOT LIKE query](#) to [annosaurus](#) to support [gridview](#).
 - Meeting with Kris Walz and Neil Conner to close out the titan to thalassa migration of all MBARI videos.
 - Now that the VARS system includes web applications ([query](#), [kb editor](#)), the microservices need to be put behind a proxy with an SSL certificate. Created

[vars-quickstart-public](#) to simplify creating a VARS stack with SSL for non-MBARI labs. This project is based off of [vars-quickstart-mbari](#) which is used at MBARI to run VARS on the ships.

- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
 - Continuing work on migrating annotations from a legacy VARS database to the current system. Verified that the migrated localization (points, lines, polygons) show up in Mondrian.
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
 - Helped Astrid Leitner (OSU) address issues with their labs VARS server.
 - Helping Lisa Krigsman (NOAA) address issues with video formats for their VARS system
- Out of Office
 - April 6 - April 24: Vacation
 - May 18 - May 22: Marine Imaging Workshop, Gibraltar

Week 2

- 500055 - VARS, M3/RS, DSG
 - Updates to [annosuarus-java-sdk](#), [oni-java-sdk](#), [raziel-java-sdk](#), and [vampire-squid-java-sdk](#) to make them compatible with Java's module system so that they can be used in [Mondrian](#).
- 901221 - Midwater Time Series
- 901809 - Deep Sea Bioinspiration
- 902111 - Carbon Flux Ecology
 - [The migration code is nearly complete](#). Did a test run for migrating the annotations from old vars on perseus:VARS_IMAGES database to the new one on venus:M3_ANNOTATIONS. Modified the code to be able to run in batches so it can be run in off hours so as to not impact the video lab.
 - Dusting off the [Mondrian](#) code to verify that the data migration worked and is compatible with our current tools. Working through changes required by latest [JDK](#) and [Gradle](#) tools
- 902403 - Expedition DB Modern
- 902604 - VARS-ML Vector Database
- Overhead
- Out of Office
 - April 6 - April 14: Vacation
 - May 18 - May 22: Marine Imaging Workshop, Gibraltar