

901103 - Biodiversity and Biooptics of Zooplankton

Week 50

1. Danelle Cline
 - a. Completed [biotrack](#) code
 - b. Processing select dives with representative biodiversity. Workflow loads top-2 predictions based on ViTs model and gradcam coverage.

Week 48

1. Danelle Cline
 - a. BioTrack tracker development adding in multiple key points to improve tracking of siphonophores
 - b. Processed dive 4432 to explore biodiversity.
 - c. Discussion with the team about next steps: supervised, semi-supervised, etc. pipeline

Week 46

1. Danelle Cline
 - a. 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.

Week 44

1. Danelle Cline
 - a. Testing [Meta Co-Tracker](#) on midwater video
 - b. Added cleanvision to exemplar pipeline. Many examples were removed.

Week 42

1. Danelle Cline
 - a. Processed all Ventana 2020 dives; reviewed 2020 test results with the team.
 - b. 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.

Week 38

1. Danelle Cline
 - a. Discussion with team about project review feedback.

Week 35

1. Danelle Cline
 - a. Ansible deployment of REDIS fastapi-vss service to doris
 - b. Working on apache-beam aipipelines for video
 - c. Updated [ai documentation](#)

Week 23

1. Danelle Cline
 - a. Performance improvements to CDK design to add elastic GPU YOIOv5 scaling

Week 19

1. Danelle Cline
 - a. Working on optimizing FastAPI for bulk changes

Week 10

1. Danelle Cline
 - a. Working on REDIS workflow for automated data loading

Week 9

1. Danelle Cline
 - a. Working on REDIS workflow for automated processing

Week 7

1. Danelle Cline
 - a. Beginnings of [core ai docs](#)

Week 1

1. Danelle Cline
 - a. DINOv2 and DINO cluster experiments in AWS are nearly complete.