

NPRB2301 Sample and Data Update

February 12, 2025

This report summarizes the samples available for NPRB 2301, their status and the status of laboratory processes. Updates will be made available whenever significant updates to the sample database or analytical data become available.

Version Notes

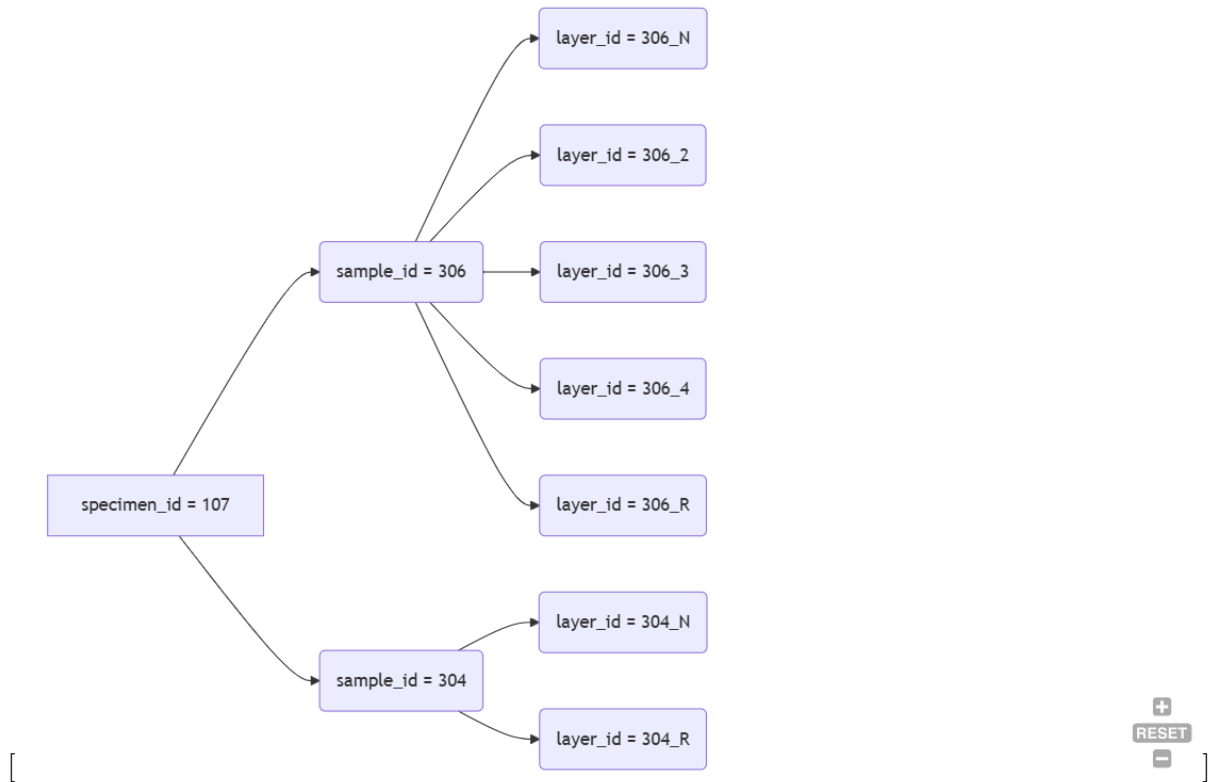
- NOSAMS AMS 14C results from the training layers are now available.
- Another batch of layers sent to NOSAMS for AMS.
- First batch of layers for stable isotopes sent to Stanford lab.

Links and Resources

- [github repo](#) (public)
- [Research Workspace](#) (password protected)
- [Google Folder](#) (access controlled)

Specimen, Sample and Layer Summaries

- Each animal has a specimen_ID. The exception is spiny dogfish embryos, which are considered samples taken of the adult.
- Each eye, embryo, spine, etc. has a unique sample_id, which links back to the specimen_id that that sample was taken from.
- Each eye is further separated into layers and each layer_id links back to the sample_id (and thus, specimen_id).

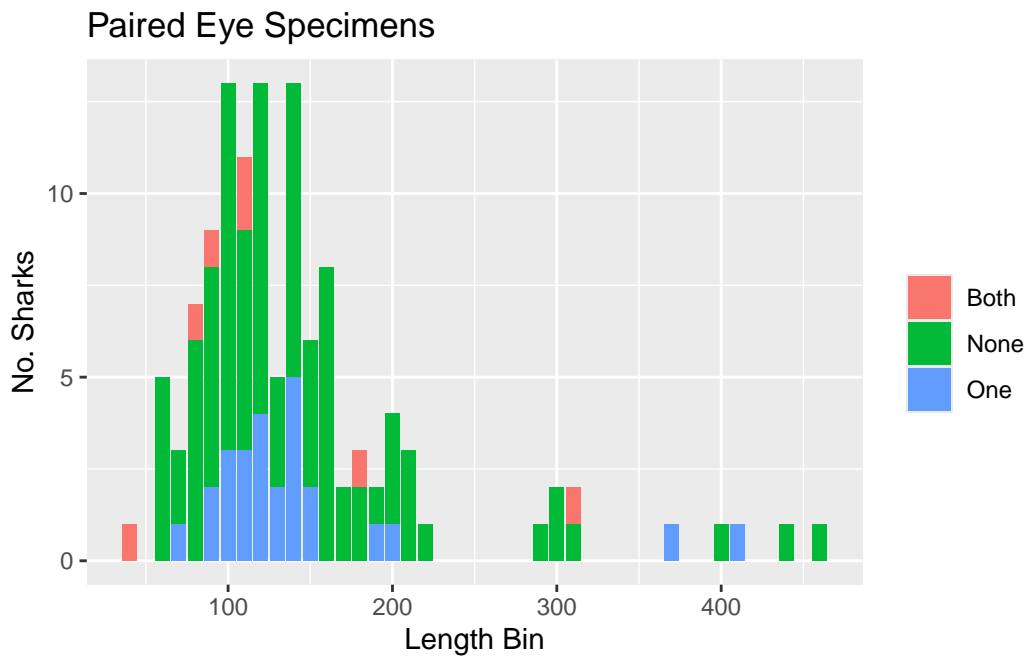
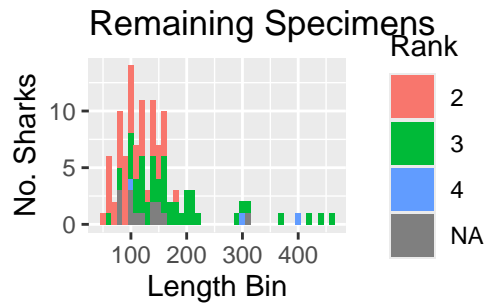
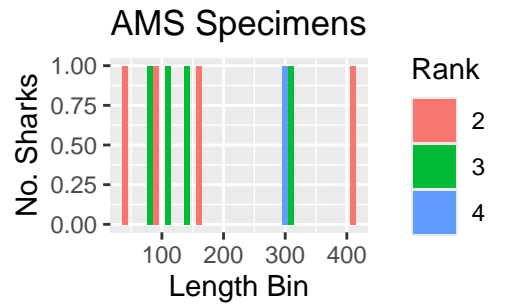
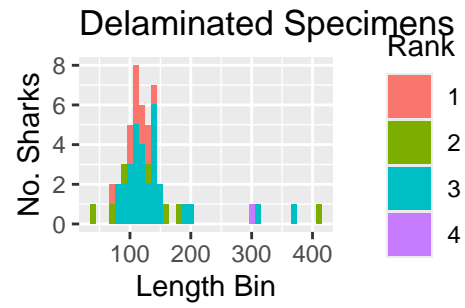
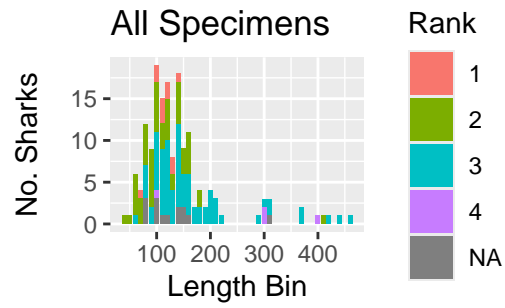


Pacific sleeper sharks

The below table only includes specimens with both length and haul data. There are some samples without haul data, and some without length. As data gaps get filled in, these numbers will change. Please request any other data breakdowns for future reports.

N PSS	N PSS eyes	N PSS Delaminated	N PSS Layers
137	256	72	301

For the purposes of this graph, all unknown length types are treated as Total Length until we resolve how to determine that. The graphs only note specimens which have had at least one eye delaminated and do not summarize if a second eye remains.[NOTE: add a figure of sharks which had two eyes and how many have had both eyes done]



Spiny dogfish

insert summary table of n animals sampled (that we have complete data for!) by LME and n eyes total (some only have one eye), add in how many animals had embryos insert graphs of length dist by sex insert summary table of n eyes which have been delaminated and n layers created, n spines prepped

AMS

summary table of AMS samples run to date and est of how many we still can run based on funds remaining

Stable Isotopes

First batch of stable isotope samples have been sent to Stanford lab for analysis. Stay tuned for results.

CSIAA

This portion of the project has not begun.