Figure critique and the road to the full draft

Eleutherodactylus Research Course · Fall 2026

Tom Devitt

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Where we are: week 13 of 16

Date	What
Today	Figure critique, then fix your figures
Wed Nov 18, 9:00 AM	**Milestone 3:** figures and results (one per team). *Moved from today*
Wed Nov 18, 11:59 PM	AmphibiaWeb revised draft (individual)
Wed Nov 18, in class	Start writing the full draft
Nov 23–27	Fall break, no class
Mon Nov 30, 9:00 AM	**Milestone 4:** full draft (one per team). AmphibiaWeb final draft
Wed Dec 2 and Mon Dec 7	Final presentations. Papers handed off Dec 7

Two deadlines on Wednesday and two on Nov 30. If you're behind, tell your mentor or me now.

Milestone 3: what to hand in Wednesday

Figures: two to four, each answering one question about your calls.

Results: one paragraph per figure, under a “Results” heading in your notebook. Give the numbers:

> Dominant frequency was 2.9 ± 0.2 kHz (mean ± SD; range 2.6–3.3 kHz; 5 males, 48 calls).

- **SD** (standard deviation): how spread out the values are around the mean
- **n**: how many males and calls a number comes from. Always both
- Say what you measured, not what it means. Meaning goes in the Discussion

Upload: notebook .qmd + rendered .html (renders from a fresh session), each figure as a .png from `ggsave()`. Team 1: score distributions and TP/FP/FN/TN with precision and recall.

Today: figure critique

Pairs

Your team	Critiques
1 and 2	each other (*marnockii*)
3 and 5	each other (Oaxaca)
4 and 6	each other (*Syrrhophus* and *Tomodactylus*)

Timing

- 10 min: Team A shows its figures, Team B checks
- 10 min: swap
- Rest of class: fix, then write Results

Check every figure (from the Oct 28 sprint)

1. Axis titles are words with units: “Dominant frequency (kHz)”, not `dom_khz`
2. n is on the figure or in the caption
3. Color and group order mean something, and match across figures
4. The caption says what every point, line or bar is
5. One sentence: “This figure shows that ___.” Can the other team say it without your help?

Leave with your top two fixes, written down.

Milestone 4: the full draft (Nov 30)

A complete first draft of your paper: every section written, nothing missing. It will still change.

Section	What goes in it
Title and authors	The frogs and what you measured; every team member
Introduction	What's known, what isn't, and your question, in its last sentence
Methods	Recordings, call selection, measurements (Köhler et al. 2017), written step by step from your notebook
Results	Milestone 3, revised after today and your feedback, plus a measurement table
Discussion	What the results mean, comparison with related species, limits of your data, what's next
References	Every paper you cite, from your .bib file

The **writing lead** owns the file and assembles it; everyone writes a section. A manuscript template (.qmd with these headings and a .bib) will be on the pod share.

Plan the next two weeks

- **Today:** split the Milestone 4 sections among the team, alongside the figure fixes
- **Wednesday:** submit Milestone 3 at 9:00, then draft Introduction and Methods in class
- **Before break:** Methods and Results drafted; Introduction and Discussion outlined
- **Break:** finish the draft; AmphibiaWeb final
- **Nov 30:** submit at 9:00; revise in class from feedback

Both assignments, with checklists, are on Canvas.

Credits

Prepared with Claude Code (Claude Opus 5.5, Anthropic): first draft of the deck from the Milestone 3 and 4 assignments.