December 27th, 2018.

Dear Dr. Judit Vörös

Editor-in-Chief, Amphibia-Reptilia,

We are glad to submit the original manuscript entitled “Dynamics of a neotropical stream-dwelling tadpole: the case of *Aplastodiscus eugenioi* (Anura: Hylidae) in the Brazilian Atlantic rainforest”, by Vitor Nelson Teixeira Borges-Júnior, Monique Van Sluys, Carlos Frederico Duarte Rocha, and Jane C. F. Oliveira.

Understand the reproductive patterns and what determine the persistence of organisms with complex life cycle depend on the knowledge of population dynamics of both adult and larval stage. However, the ecology of tadpoles, the larval stage of anurans, is still understudied. Here we present information on the population dynamics of neotropical tadpoles of the treefrog *Aplastodiscus eugenioi* belonging to habitats with different hydroperiods: one permanent and one temporary stream. We followed these two populations in terms of abundance, body size and classes of development of tadpoles for a period of three years to obtain results on population size, development and age structure. We found that the hydroperiod was determinant for the size and trends in population sizes. Rainfall had distinct effects on the number of tadpoles depending on the hydroperiod of the habitat. Tadpoles presented similar age structures despite of distinct hydric conditions of the habitats. There was an extensive presence of small sized tadpoles and non-metamorphic individuals were larger at metamorphoses in the permanent stream. These findings imply that *A. eugenioi* reproduced extensively throughout the year and that permanent habitats are more suitable to growth and develop of their tadpoles than temporary ones.

We affirm that the work as submitted has not been published or accepted for publication, nor is being considered for publication elsewhere.

Please send all correspondence to the first author, Vitor N.T. Borges-Júnior.

Thank you for your consideration. We will be looking forward for your answer.

Yours sincerely,

Vitor N.T. Borges-Júnior

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