Ana Claudia Delciellos

Editor-in-Chief

Oecologia Australis

Rio de Janeiro, September 1st 2019.

Dear Dr. Delciellos,

Please find attached the manuscript entitled “Differential phenological shifts in an extremely dry year among populations of *Euterpe edulis*Mart. along an attitudinal variation”. It is stated here that all authors have seen and approved the manuscript. I warrant also the originality of the material, which has never published before nor will be considered for publication elsewhere while it is being considered for publication in Oecologia Australis. The manuscript contains 26 pages, 4 Figures, 4 table and 9338 words, with references.

Our paper explore the phenological schedules and seed mass of three populations of *Euterpe edulis* Mart. localized at two main altitudes (0-100 and 900-1200). Assessing the phenophase from June 2014 to May 2017 and the dry and fresh seed mass in 2014 and 2015 were detect interpopulation differences. Flowering and fruit ripening presented a attitudinal sequential pattern with the former starting first at higher populations and the latter first at lower populations. Moreover the fruit maturation and seed mass were greater at higher populations. Through the analysis of climatic data, especially rainfall, we detected an unusual drought at 2015 in the higher site and 2014 at the lower one. All population’s phenological patterns shifted somehow although not equally with the higher populations appearing more sensitive than the lower ones. The higher populations presented also a reduction of dry seed mass after the drought. In conclusion this paper cast some light at the point of intraspecific differential responses to extreme climatic events. We believe this is important point due to likely increase of these events due to climate change and the possible consequences (ecological mismatches and disruptions) which might affect the whole community. (Páginas, 4 Figuras e 4 Tabelas).

We suggest the following names as referees:

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Your sincerely,

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