Rachael Maree Woods

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29th October 2015

**Dear Professor Lasker,**

Please consider our manuscript titled ‘Environmental factors limiting fertilisation and larval success in corals’ for publication as a Report in *Coral Reefs*. In the manuscript, we present a meta-analysis quantifying the effects of 14 environmental factors (including nutrients, heavy metals and water properties) on the success of early, dispersive, life history stages in corals (fertisliation and larval survivorship). We are able to rank the relative importance of these factors using a binomial generalised linear mixed effects model, and go on to demonstrate the joint probability of both fertilisation and larval survival under different environmental conditions. We believe this analysis will be of great interest to scientists and policy makers seeking to understand the human and climate change impacts on larval ecology and distribution, especially in and around local areas where factors such as copper, lead, sediment and salinity might adversely influence coral settlement.

This report is 6023 words long with three figures, four tables and two supplementary material tables.

Please feel free to contact me if you have any questions. I look forward to hearing your response.

Sincerely,

Rachael Woods

PhD Student

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