



EGUsphere, referee comment RC2
<https://doi.org/10.5194/egusphere-2022-240-RC2>, 2022
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Comment on egusphere-2022-240

Anonymous Referee #2

Referee comment on "Early life stages of a Mediterranean coral are vulnerable to ocean warming and acidification" by Chloe Carbonne et al., EGU sphere,
<https://doi.org/10.5194/egusphere-2022-240-RC2>, 2022

This manuscript describing and discussing the effects of thermal stress and acidification on larvae and juveniles of the mediterranean coral *Astroides calycularis* is mature and well written.

I am very close to "accept as is" but I see two very minor points that could deserve some attention.

At l 36, you refer to Garrabou et al. about "temperate corals". My understanding is that a large part of the database from Garrabou et al, is likely gorgonoians (and actually Garrabou et al. refers to a Cnidaria category). I may be wrong, but if it is the case, I would recommend to clarify which "corals" are in this group as it can be easy to interpret "corals" as scleractinian corals. So a little clarification may be welcome.

Also, and it is not absolutely necessary, but I am missing a few words about how Mediterranean/temperate ecosystems are distinct from the tropical corals ecosystems. Without doubts, some of the mechanisms can be generalised to both tropical and temperate ecosystems, but in addition to these, I would be curious to know if some stresses (or future scenarios) are more affecting temperate or tropical ecosystems. I believe these ecosystems are very different, so I would expect some unique responses too. (maybe one or two sentences in the introduction and discussion could be an idea.

Finally, and this is rather a proofreading type of comment, at l. 81, please add a space in *A. calycularis*.

It was a pleasure to review this manuscript at this mature stage and I look forward to see it published.

