

The manuscript entitled "The ability of macroalgae to mitigate the negative effects of ocean acidification on four species of North Atlantic bivalves" reports on a large and impressive experimental study to assess the effects of elevated  $p\text{CO}_2$  and the occurrence of green macroalgae on the growth and survival of calcifying bivalves. The main result is that macroalgae may mitigate the deleterious effects of acidification on bivalves. In the context of increasing human pressure on ecosystems, there is a definite need/interest in understanding what are the consequences of acidification on marine ecosystems. And it is particularly relevant in situations where communities are composed of species that usually play a very substantial role in ecosystem functioning, besides being of commercial interest. This study adds on current research on the effects of acidification on the functioning of marine ecosystems. The authors did pay attention to all the comments made by the reviewers and made significant changes to improve the ms. New analyses have been undertaken that strengthen the results and the discussion has been amended accordingly. The topic clearly meets the criteria laid down for publication in Biogeosciences. The manuscript is well written and could be accepted for publication as is. I think the manuscript can be a very valuable addition to Biogeosciences.