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Interactive comment on "Effects of low pH stress on shell traits and proteomes of the dove snail, *Anachis misera* inhabiting shallow vent environments off Kueishan Islet, Taiwan" *by* Y. J. Chen et al.

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Thanks for the comments. Our responses are as follows. 1. We will update the references and discussion in the revised version as suggested. 2. We will add one different dove snail species in morphological comparisons to the vent snails and focus our findings on the shallow vent environments. 3. We could not find Anachis misera in any other coastal environments in Taiwan. In the revised version, for the comparative purpose, we will analyze two populations of a different dove snail species collected in northeastern Taiwan where is in the west of Kueishan Islet about 10km apart. Addi-

tional chemical information of the vents will be included in the revised version and the quality of Fig. 2 will be improved too. 4. The proteome is the set of proteins produced or modified by an organism or system which varies with time, space or stresses that organism undergoes. Through proteomic approach, the protein profiles of organisms can be quantitatively determined. Then the protein profiles can be analyzed and compared by multivariate analysis, like the Bray–Curtis similarity (BCs) Indices. This is an effective method to classify organisms' patterns into different groups. Using this approach, we were able to distinguish snails in the South from the rest sites. We will re-analyze our data, pooling snails from East, Southwest and Northwest sites as one population. And the MS will be reorganized extensively.

Interactive comment on Biogeosciences Discuss., 11, 17207, 2014.