

## ***Interactive comment on “Exploring local adaptation and the ocean acidification seascape – studies in the California Current Large Marine Ecosystem” by G. E. Hofmann et al.***

**Anonymous Referee #3**

Received and published: 21 August 2013

This review article nicely summarizes results from multiple ocean acidification projects that describe the high spatial and temporal variability of pH along the U.S. West Coast and the responses of calcification-dependent organisms to the different levels of carbon system parameters found along the US West Coast. This effort helps to evaluate whether some species or populations have inherent physiological plasticity or even the potential for evolutionary adaptation to a quickly changing environment. I really appreciate this review as it bridges the important research areas of chemical observations and biological performance of organisms.

The manuscript is well written and comprehensible for a broad audience. I only suggest a few minor corrections.

C4468

Pages and line numbers refer to the “printer-friendly” version:

Page 11829, Line 7: delete “in” – “. . . conditions along in the U.S. . . .

Page 11834, Lines 2-3: delete “increasingly” – appears twice in sentence

Page 11834, Lines 28: delete second “pCO<sub>2</sub>”

Page 11839, Line 13: add “to” – “. . . is to use. . .”

References:

Page 11841, Line 1: Capitalize “Point Conception”

Figure captions:

Figure1: Page 11851: add “represent” . . . Colors in the image represent surface. . .

Figure 2: Page 11852 – 11853: A and B are assigned to wrong pH – please correct.

Figure 4: Page 11855: Please revise sentence: . . .; Sea urchin larvae from the Santa Barbara are and Van Damme were raised. . .

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Interactive comment on Biogeosciences Discuss., 10, 11825, 2013.

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