

## ***Interactive comment on “Effect of ocean acidification on the early life stages of the blue mussel (*Mytilus edulis*)” by F. Gazeau et al.***

**F. Gazeau et al.**

f.gazeau@obs-vlfr.fr

Received and published: 2 June 2010

We would like to thank the referee for his/her comments and suggestions on our manuscript.

The major comment of the referee concerns the fact that we did not sufficiently discuss the natural range of environments this species is exposed to in situ. Therefore following the 3 referees suggestions, we have included a paragraph in the Introduction about the biology and ecology of this species and extended the paragraph on the range of variations this species is exposed in the field and on the regulation of calcification (i.e. the potential ability of this species to adapt to very different environments), in the discussion section: See Reply to Reviewer#1.

C1254

Adding the economic value of *Mytilus edulis*: Done. Values from this paragraph have been updated according to the last version of the FAO software.

Listing pCO<sub>2</sub> and CO<sub>3</sub> concentrations earlier on in the paper: Following recommendations of Referee #2 and 3, we have included the corresponding pCO<sub>2</sub> values (in the abstract and the Material and Methods section). Corresponding concentrations of CO<sub>3</sub><sup>2-</sup> and saturation states with respect to aragonite are listed in Table 1.

Minor comments:

Give more data on the natural habitat of the adult mussel (see above)

P2937L27: reference has been removed

P2924L10: CO<sub>2</sub> software (Reference updated)

---

Interactive comment on Biogeosciences Discuss., 7, 2927, 2010.

C1255