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Biogeosciences Discussions

Interactive comment on "Monthly measured primary and new productivities in the Ulleung Basin as a biological "hot spot" in the East/Japan Sea" *by* J. H. Kwak et al.

J. H. Kwak

kjhpt@postech.ac.kr

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Dear Editor and Reviewer,

Thank you very much for reviewing our manuscript. We have tried to revise the manuscript in line with the suggestions made by the reviewers. Our response to each point suggested by the first reviewer is as follows.

1. page 5, line 17: should be 'food webs critical to ...'

→ As suggested by reviewer, we have deleted "and".

2. page10, line 6, I think 'was' should be moved to after 'column

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→ According to the reviewer's suggestion, we have moved "was" to after "column".

3. page 14, line 26, spell out 'CZCS'

→ We have changed "CZCS" to "Costal Zone Color Scanner".

4. page 13, line 21 and page 14, line 9: The comparison with Kwak et. al. (2013) needs more details to make clear and compare with the same month of measurements. Overall, the data are highly variable both spatially and temporally, and it is questionable whether the reported data are sampled enough to understand the variability.

→ We have changed the sentences in the revised ms as following: "Kwak et al. (2013) found a rather similar summer primary productivity in the present study (Student-t test, P=0.766)." and "Kwak et al. (2013) reported that their summer time new productivity ranged from 25.9 to 221.4 mg N m−2 d−1 in the UB of the EJS and the range was consistent with that in the present study (Student-t test, P=0.836).", respectively.

There are no significant differences in productivity for the same month of August and May between the previous results by Kwak et al. (2013) and the present measurements. Therefore, the 3 stations in this study would be appropriate in representing primary production in the Ulleung Basin.

Interactive comment on Biogeosciences Discuss., 10, 2127, 2013.