

## ***Interactive comment on “Marine viral populations detected during a nutrient induced phytoplankton bloom at elevated pCO<sub>2</sub> levels” by J. B. Larsen et al.***

**J. B. Larsen et al.**

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Response to questions by Anonymous referee #1:

Q: Please give data on the location (lat,long) and size of the mesocosms and when the sampling occurred.

A: Sampling location added (Raunefjorden 60 degrees 16 minutesN, 5degrees 13minutes E), sampling was done at 10 am (mesocosm setup is described by Schultz et al. this issue).

Q: What viral standard have you used to identify the viral populations by flow cytometry?

A: In order to identify the viral populations as EhV, LFV, MFV, HFV and PFV we compared with the signature of the viruses we keep in pure cultures (own unpublished work) and with previously performed flow cytometry work performed by the group (e.g. Larsen et al. 2001, Jacquet et al. 2002, Martinez-Martinez et al. 2006) but did not include viral lysate in the samples as a reference

Q: What is a SM-Buffer.

A: SM-buffer = 0.1 M NaCl, 8 mM MgSO<sub>4</sub>, 50 mM Tris-HCl, 0.005 % Glycerin

Q: I do not agree, that there was a significant effect of pCO<sub>2</sub> on EhV abundance.

A: corrected to - A similar although not significant CO<sub>2</sub> effect was observed for EhV with a slightly higher abundance in the 10‰CO<sub>2</sub> enclosures than in the 20‰CO<sub>2</sub> and 30‰CO<sub>2</sub> enclosures (Fig. 2b).

Q: What do you mean by region? Gene region = operon?

A: A region refers to the amplified fragment of the gene and will be substituted with sequence in revised manuscript.

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