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***Interactive comment on* “The Arctic Ocean marine carbon cycle: evaluation of air-sea CO₂ exchanges, ocean acidification impacts and potential feedbacks” by N. R. Bates and J. T. Mathis**

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Received and published: 25 September 2009

We thank Dr. Chierici for posting a very helpful comment. We have added the recent paper by Fransson et al., 2009 to the paper in various places and also in the citation list. The findings of Fransson et al., 2009 confirm that there is strong summertime undersaturation across much of the Canadian Archipelago shelf, Chukchi Sea and north of Wrangel Island. This new data is very helpful in assessing the present-day sinks and sources of CO₂ in the Arctic Ocean.

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