

Interactive comment on "Wind-driven interannual variability of sea ice algal production over the western Arctic Chukchi Borderland" by E. Watanabe et al.

E. Watanabe et al.

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Dear all

Following the comments from two anonymous referees, we revised the manuscript, titled "Wind-driven interannual variability of sea ice algal production in the western Arctic Chukchi Borderland", by E. Watanabe and five other co-authors. The manuscript title was changed a little bit (from "over" to "in"). All manuscript, response comments, figures and tables are uploaded as a supplementary matarial (.zip). The revised parts are shown in a "change-tracked" manuscript. We hope that this version satisfies all of you. Please let me know if you find any problems.

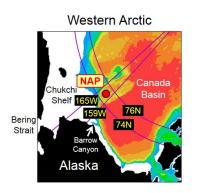
C4315

Sincerely,

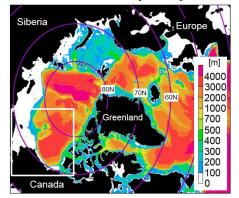
Corresponding author Eiji Watanabe

Please also note the supplement to this comment: http://www.biogeosciences-discuss.net/12/C4315/2015/bgd-12-C4315-2015supplement.zip

Interactive comment on Biogeosciences Discuss., 12, 7739, 2015.



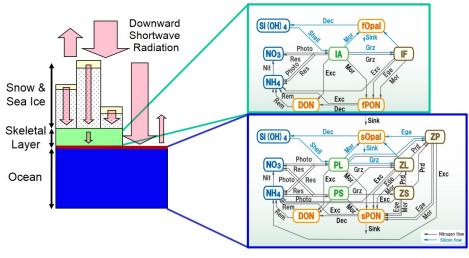
Model Bathymetry



Spin up exp. 1979 forcing	Decadal exp. 1979-2011	→ 25 km
10 years	33 years	
	Seasonal exp	
[2011 cas	e] 2010 Oct 2011	Sep. 5 km
[2012 cas	se] 2011 Oct 2012	Sep.

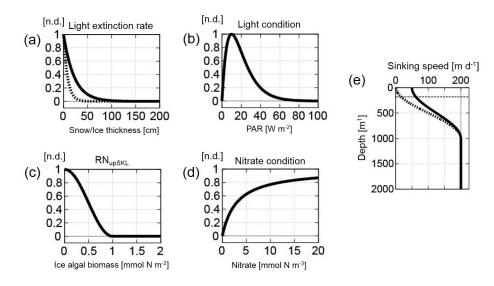
Fig. 1.

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[Arctic NEMURO]

Fig. 2.







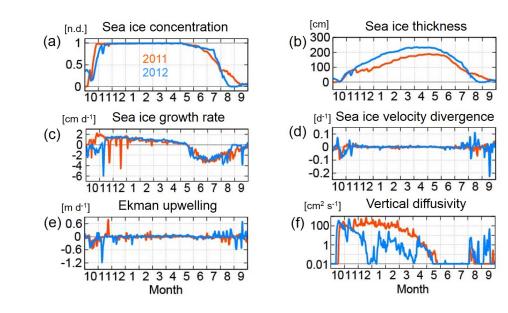
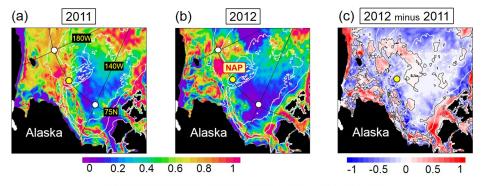


Fig. 4.



Annual primary production of ice algae [mmol N m-2]

Fig. 5.



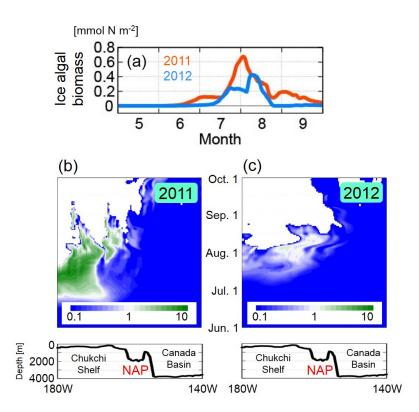
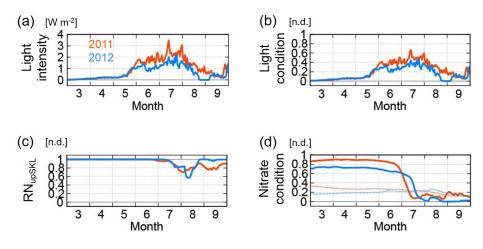
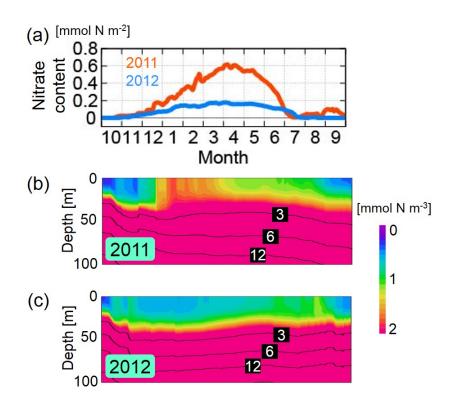


Fig. 6.





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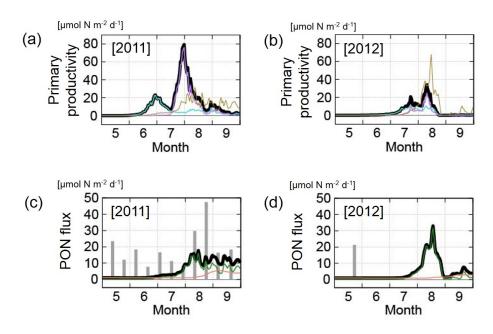


Fig. 9.

C4325

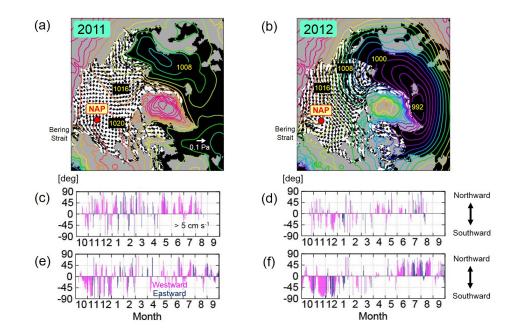


Fig. 10.

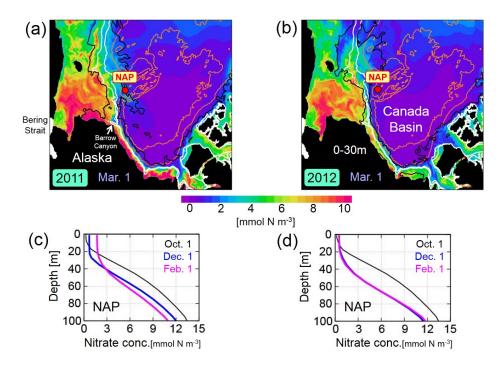


Fig. 11.

C4327

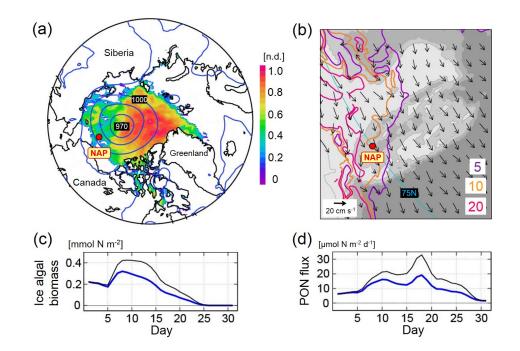
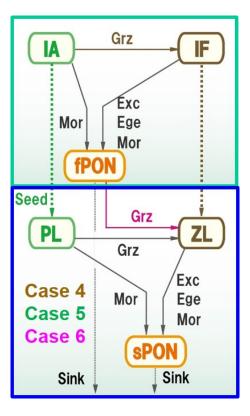


Fig. 12.





C4329

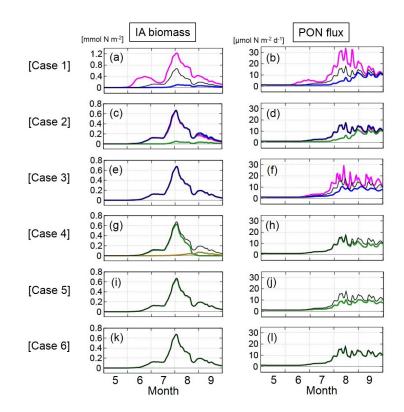


Fig. 14.