

MCRN Newsletter

February 21, 2016 - Issue 11



MCRN Colloquium Webinar

THIS MONDAY, February 22, 2016, 4pm EST: Vladimir Alexeev,
International Arctic Research Center, University of Alaska Fairbanks

Local and non-local mechanisms of Arctic warming

[Webinar Link](#)

Abstract: Polar amplification (PA) is a prominent feature of currently observed and predicted future climate change suggested by both observations and models. We will discuss several PA mechanisms and feedbacks in the ocean and the atmosphere suggested by different researchers and connect it to the real world observations. Surface albedo feedback (SAF) has been shown to contribute prominently to the currently observed PA along with other mechanisms, e.g. involving atmospheric heat transport. SAF is believed to be a strong positive local feedback, while atmospheric heat transport makes the connection between the Arctic and the low latitudes non-local. We will also discuss a more general method of feedback analysis that results in feedback and gain matrices.

Joint work with: **Craig Jackson**, (Ohio Wesleyan University)

See the full [Spring 2016 Schedule](#). The next speaker is **Marc Kjerland** (Disaster Prevention Research Institute, Kyoto University, Japan) on Monday, February 29, 2016, 10am EST.

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[New Dynamics and Statistics of the Climate System Journal](#)

An Interdisciplinary Journal from Oxford University Press, [Dynamics and Statistics of the Climate System \(DSCS\)](#) aims to provide a high-quality forum for the interdisciplinary field of quantitative climate research. The journal encourages the interaction between physicists, statisticians, mathematicians, computer scientists, and earth scientists in the development of new models and methods applied to the analysis of the climate system. [Volume 1, Issue 1, January 2016](#) contains an editorial by MCRN director Christopher Jones, who is the Editor-in-Chief of DSCS.

Submissions to Dynamics and Statistics of the Climate System are now open, with all open access fees waived throughout 2016. Read the full [aims and scope](#) of the journal, and see our [Instructions to Authors](#) page for full details of how to submit your paper.

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