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Prediction Experiments of the Arctic Oscillation Index Using a Barotropic General Circulation Model

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The Arctic Oscillation (AO) is one of the dominant atmospheric variabilities characterized as opposing atmospheric pressure patterns in northern middle and high latitudes. The oscillation exhibits a "positive phase" with relatively low pressure over the polar region and high pressure at midlatitudes.

In this study, we investigated predictability of the AOI would be possible, using a Barotropic General Circulation Model. In order to correct the bias of the model, the ensemble forecast using some error averages before the initial time was performed.

Keywords: Prediction Experiments, Barotropic General Circulation Model, Arctic Oscillation Index, Ansemble Forecast