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Theme -Theme 5: Arctic Observations in the context of Global Observing initiatives

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Poster title (brief) Features of atmospheric circulation structure in the winter season in the Northern Hemisphere according to XX century reanalyses and observations

Abstract - text box

The ability 20th century reanalyses (NOAA20C, ERA20C and CERA20C) to realistically reproduce the features of the atmospheric circulation structure in the Northern Hemisphere is being investigated. The leading natural orthogonal modes of mean seasonal sea level pressure variability are analyzed according to reanalyses and HadSLP2 empirical data for two periods - the Early 20th century warming and modern warming. It is shown that, in general, the reanalyses reproduction success in the first half of the 20th century is significantly worse than in the modern period.