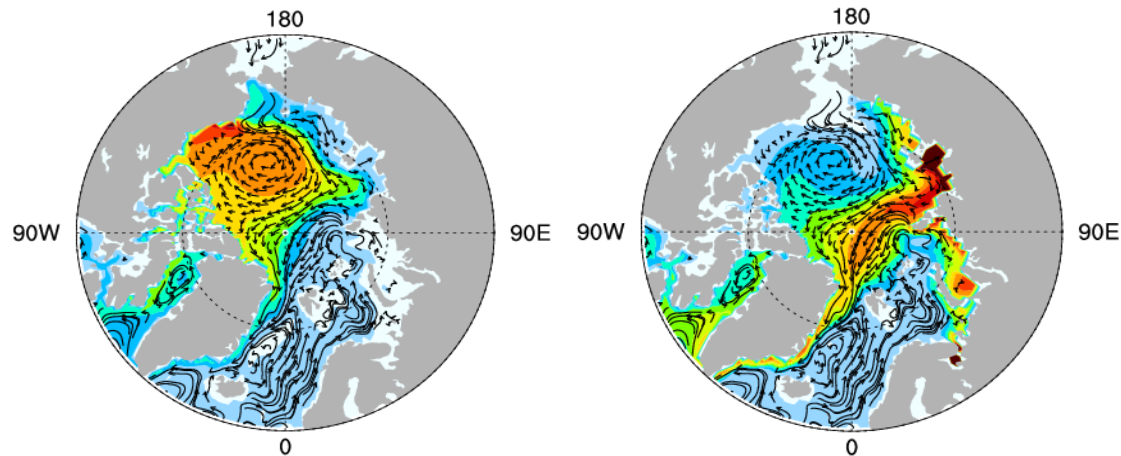


PO SEMINAR
TUESDAY, APRIL 26th
3:00 p.m. – CLARK 507

“Variability and change in the Arctic Ocean”

Alexandra Jahn

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Abstract:

The Arctic Ocean has been undergoing large changes in the last decades, ranging from reductions in the sea-ice extent, ice thickness, and ice age to changes in the storage of freshwater, a shift in the pathways of river runoff in the ocean, and a warming of the surface ocean. Due to the short timeseries of many important variables in the Arctic, the mechanisms behind many of these changes are not yet clear. As changes in the Arctic can affect the climate worldwide by reducing the deep-water formation in the North Atlantic and increasing the absorption of solar radiation, a better understanding of the variability in the Arctic climate system is not just crucial for adaptation in the Arctic, but also for improved global climate projections. In my talk I will highlight what is driving the variability of the freshwater export from the Arctic Ocean over time, how this export might change in a warmer climate with a seasonally ice-free Arctic Ocean, and how it could affect the deep-water convection in the North Atlantic.