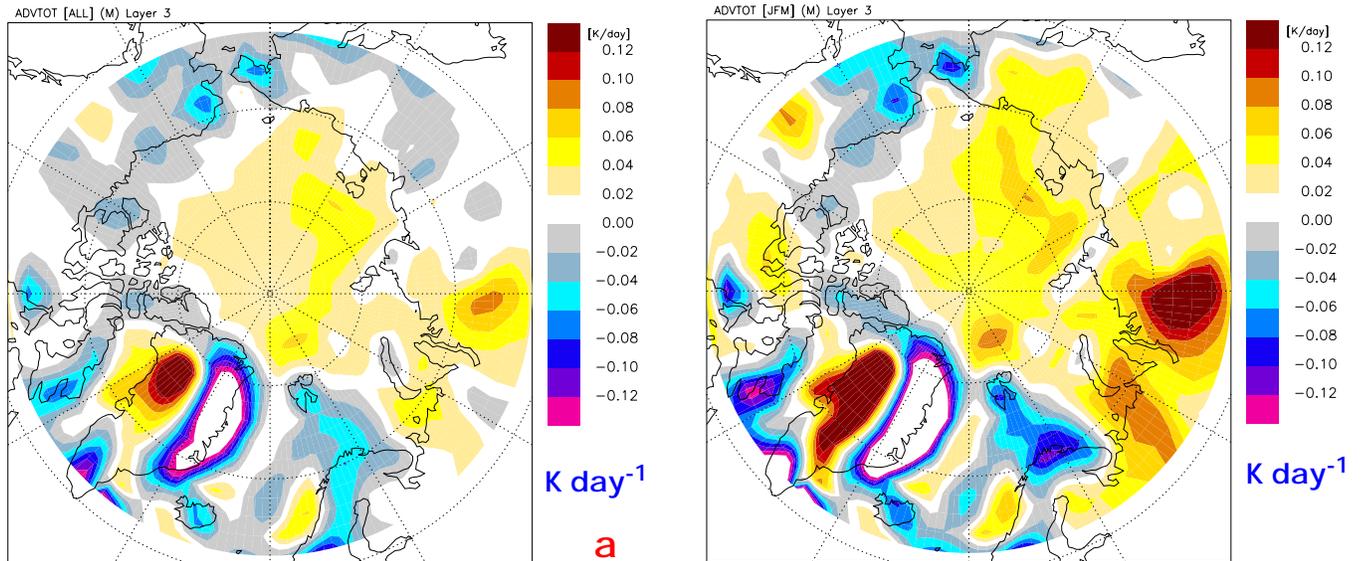
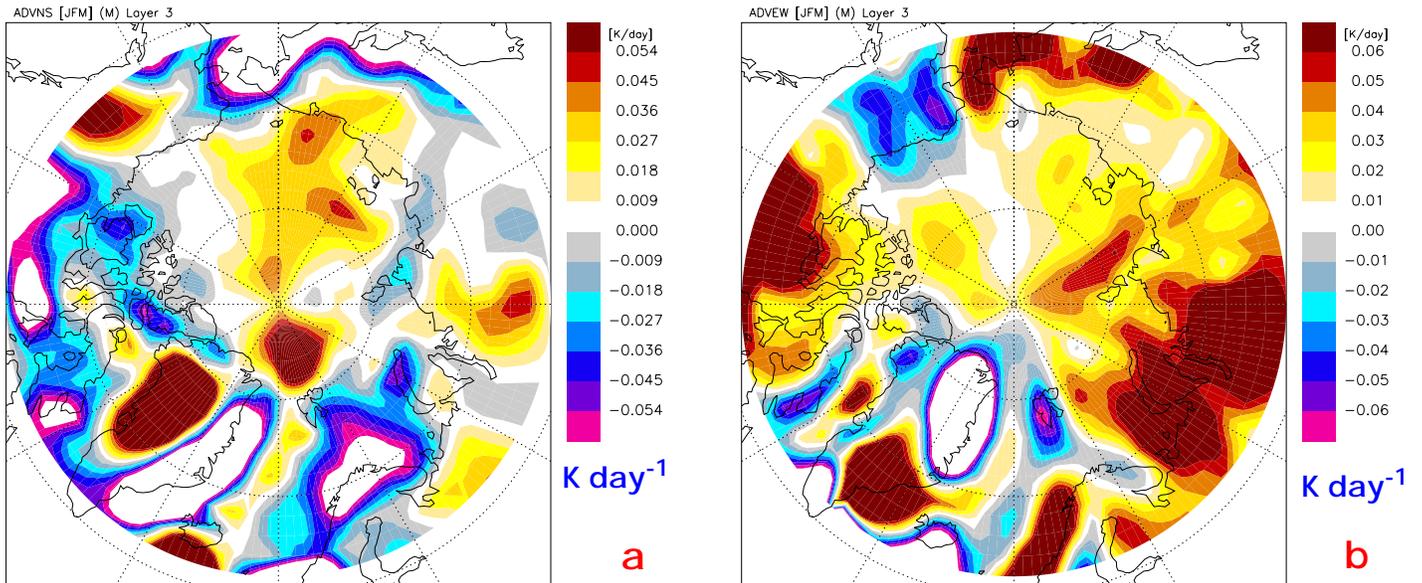


# Sensible Heat Advection



**Daily fields of sensible heat convergence are calculated from Path-P temperatures and NCEP-NCAR Reanalysis upper-level winds for 5 tropospheric layers between 1000 and 300 mb, as well as poleward and zonal components. Heating rates [ $\text{K day}^{-1}$ ] resulting from the convergence of laterally advected sensible heat in the 1000-to-700 hPa layer are shown for (a) the annual mean and (b) the winter mean (DJF) over the entire 19-year Path-P record. Values over Greenland are uncertain and should be disregarded.**

# Winter Advective Heating Poleward and Zonal Components



*Winter (DJF) mean heating rates owing to poleward (a) and zonal (b) components of the lateral advection, 1979 to 1998. Near the pole heating results mainly from poleward transport, while over much of northern Europe and Asia heat is transferred primarily from the west.*