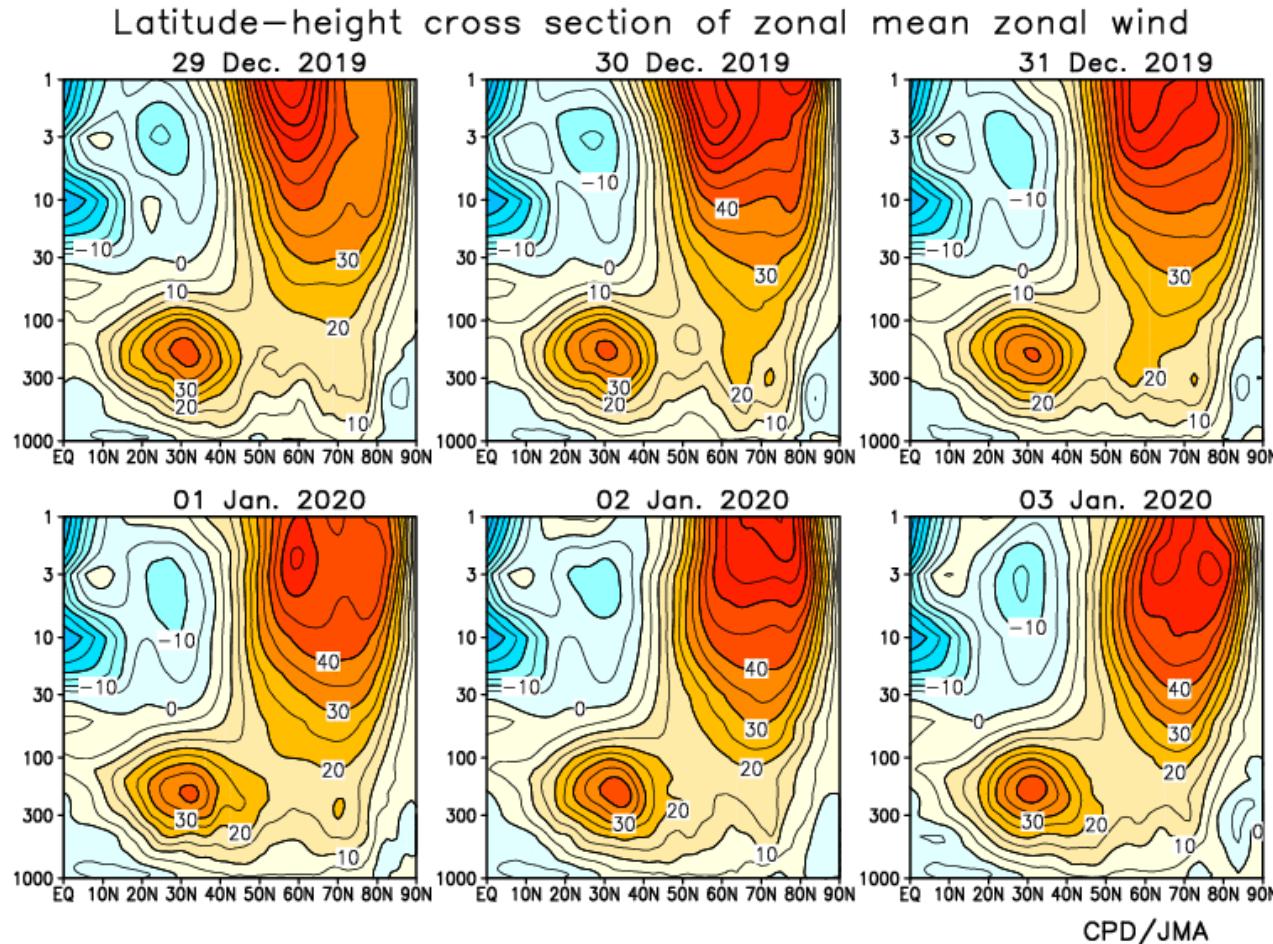


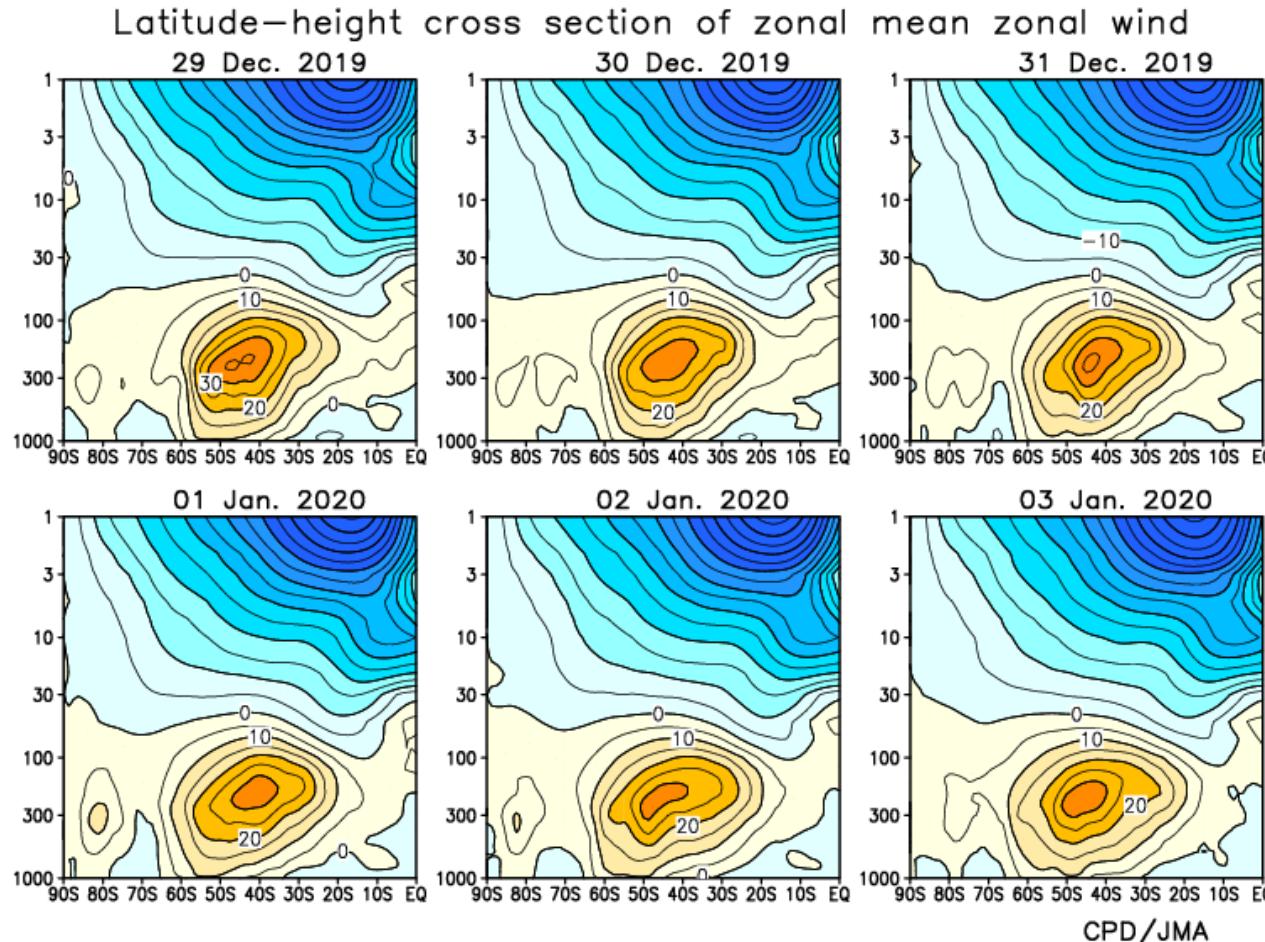
High-latitude stratospheric temperatures

GCC lecture, University of Hamburg
Hauke Schmidt & Bjorn Stevens
January, 7 & 14, 2020

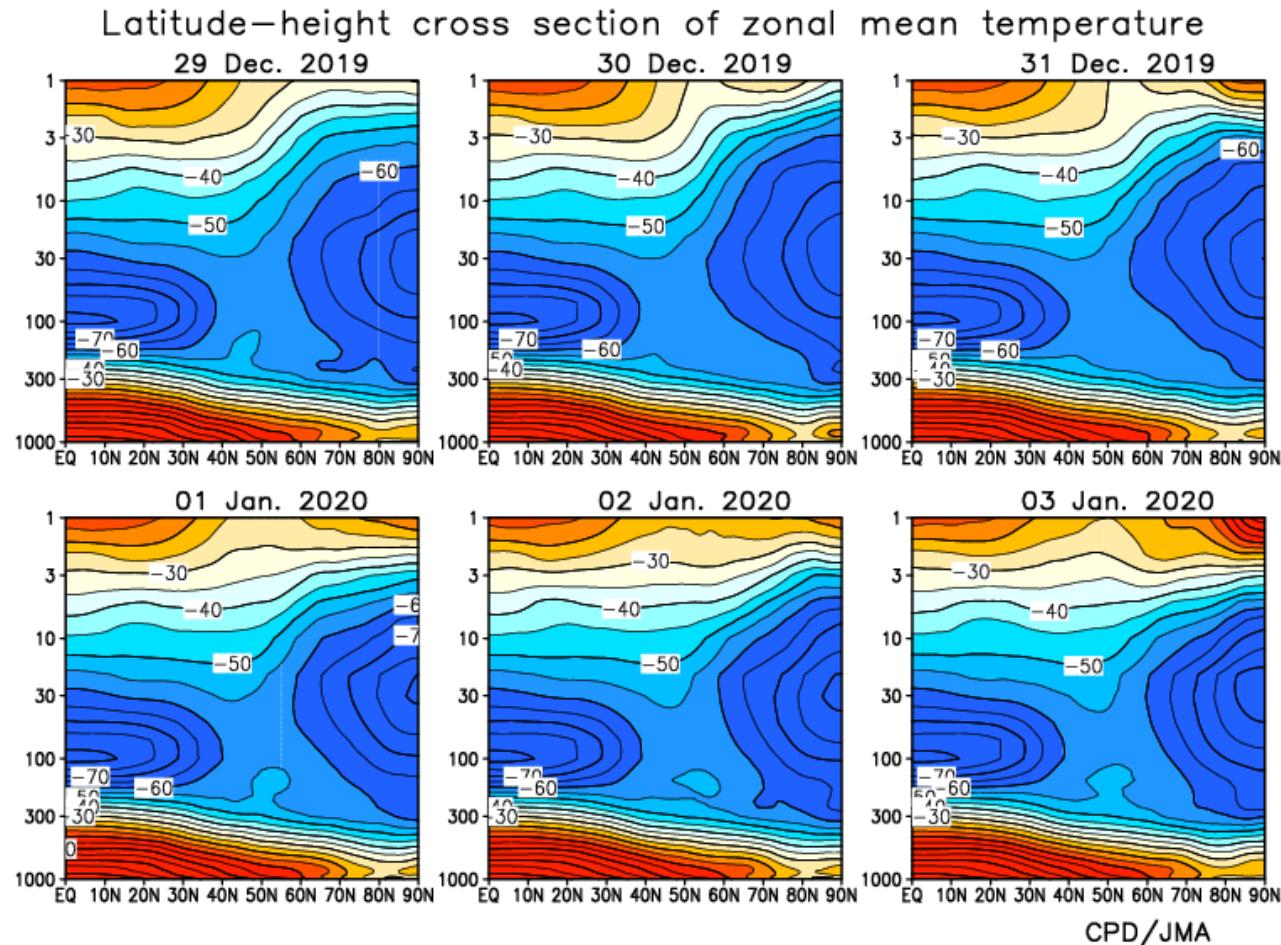
Current NH zonal mean zonal winds



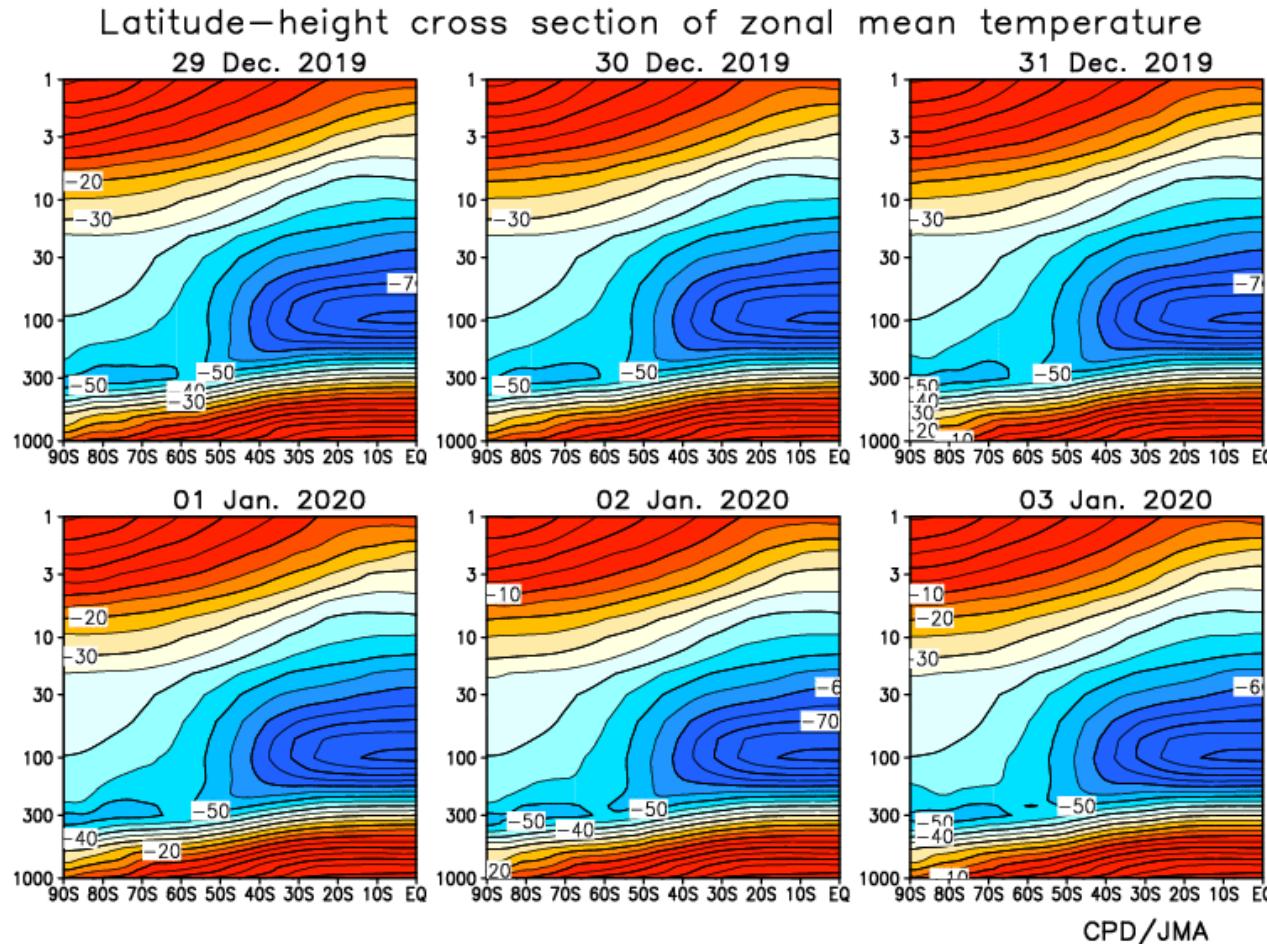
Current SH zonal mean zonal winds



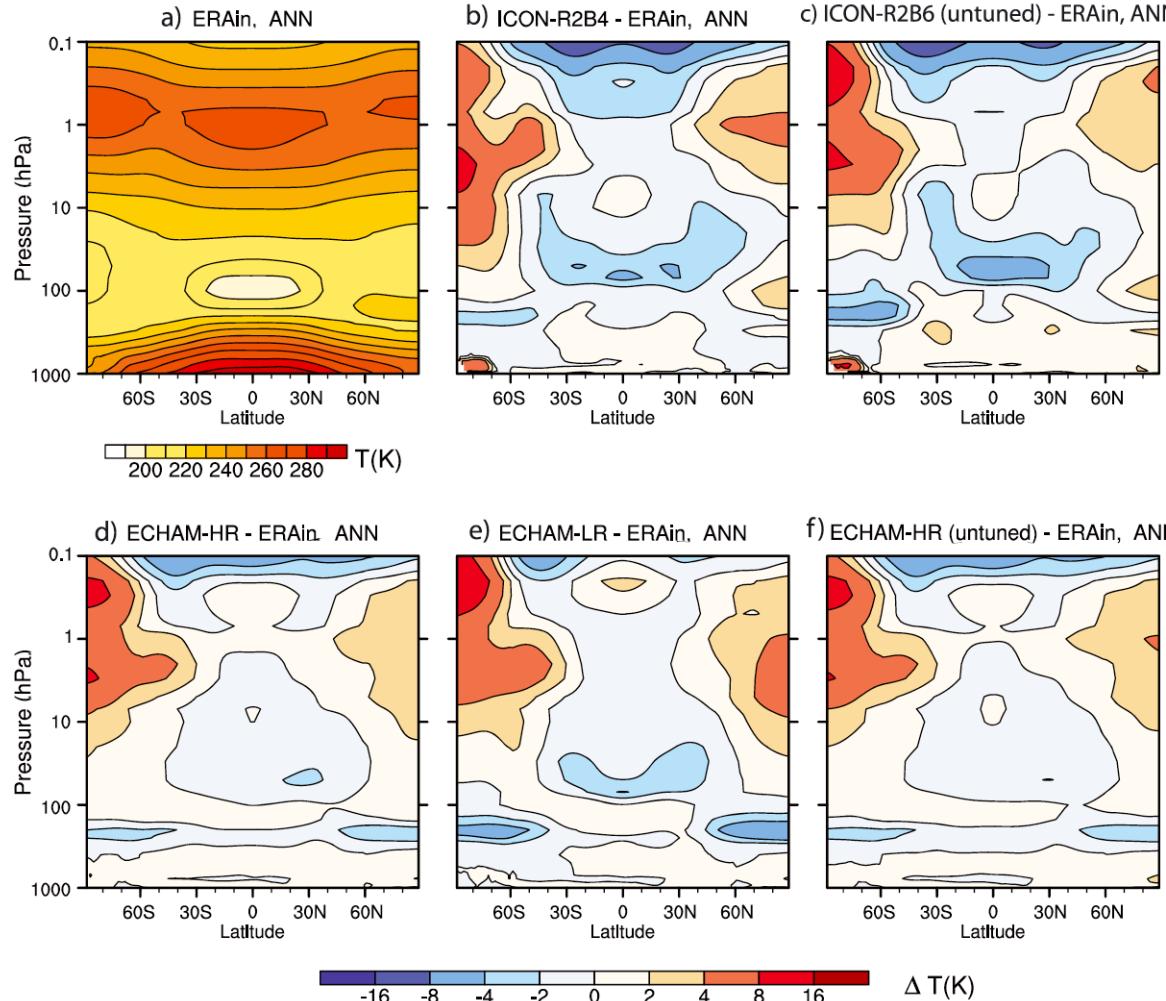
Current NH zonal mean temperatures



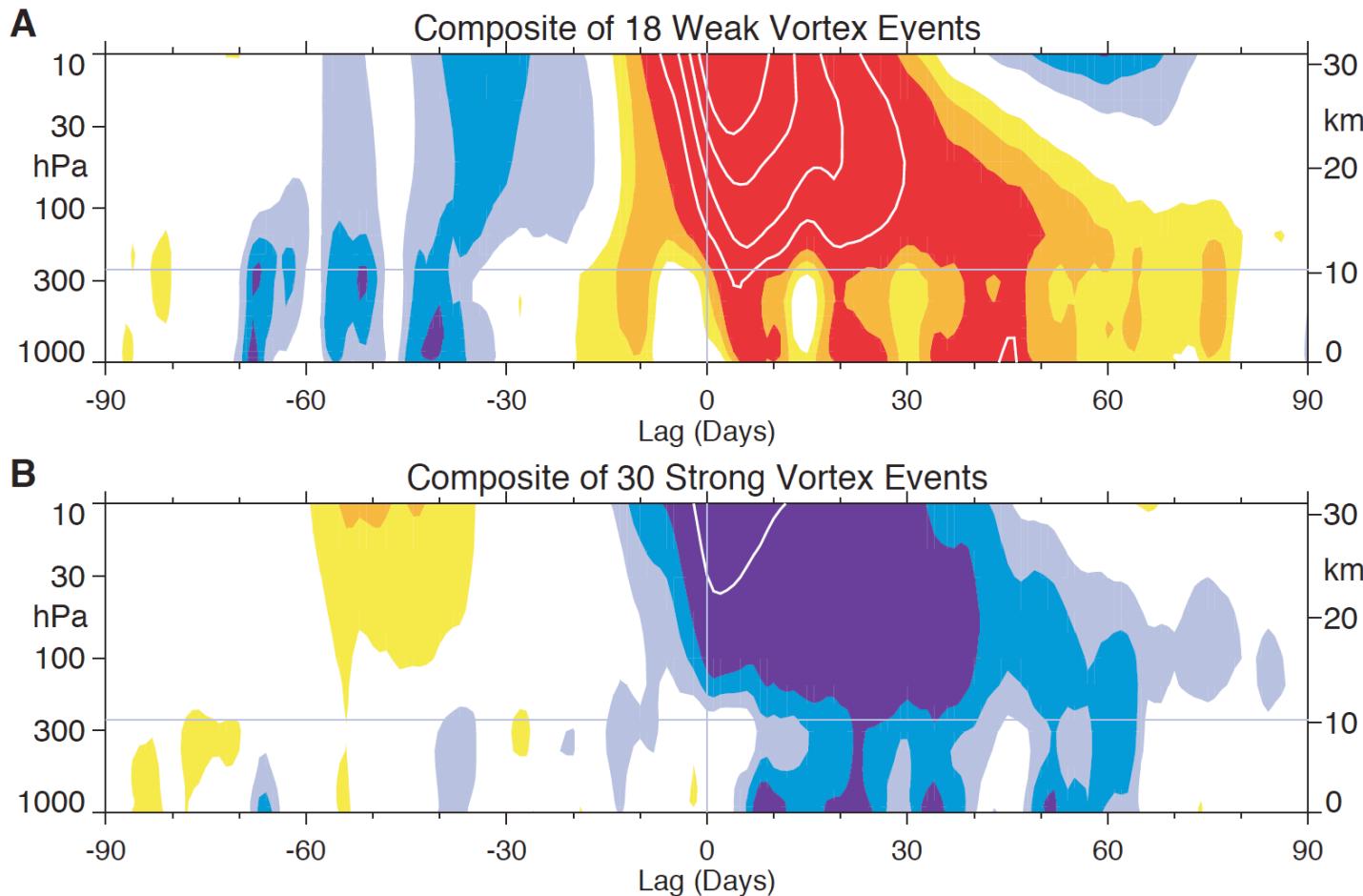
Current SH zonal mean temperatures



Zonal mean temperature biases in different MPI-M models

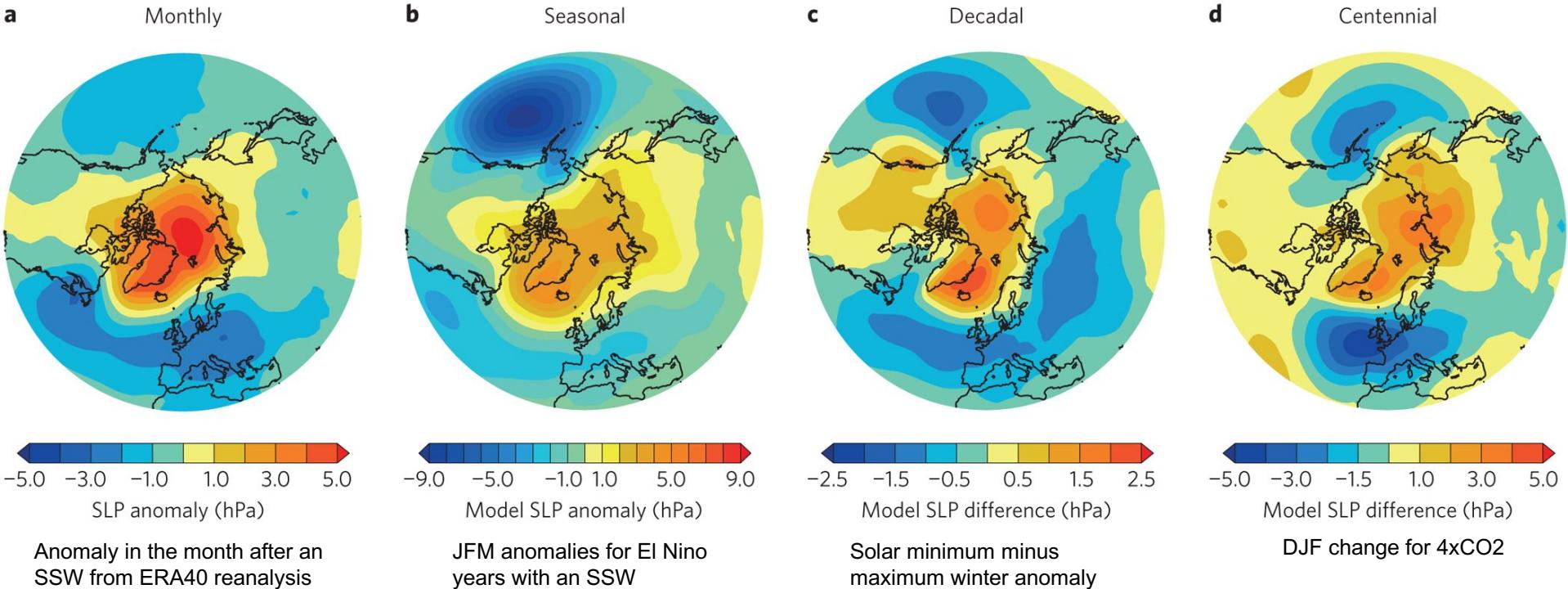


NH stratosphere-troposphere coupling for anomalous vortex events

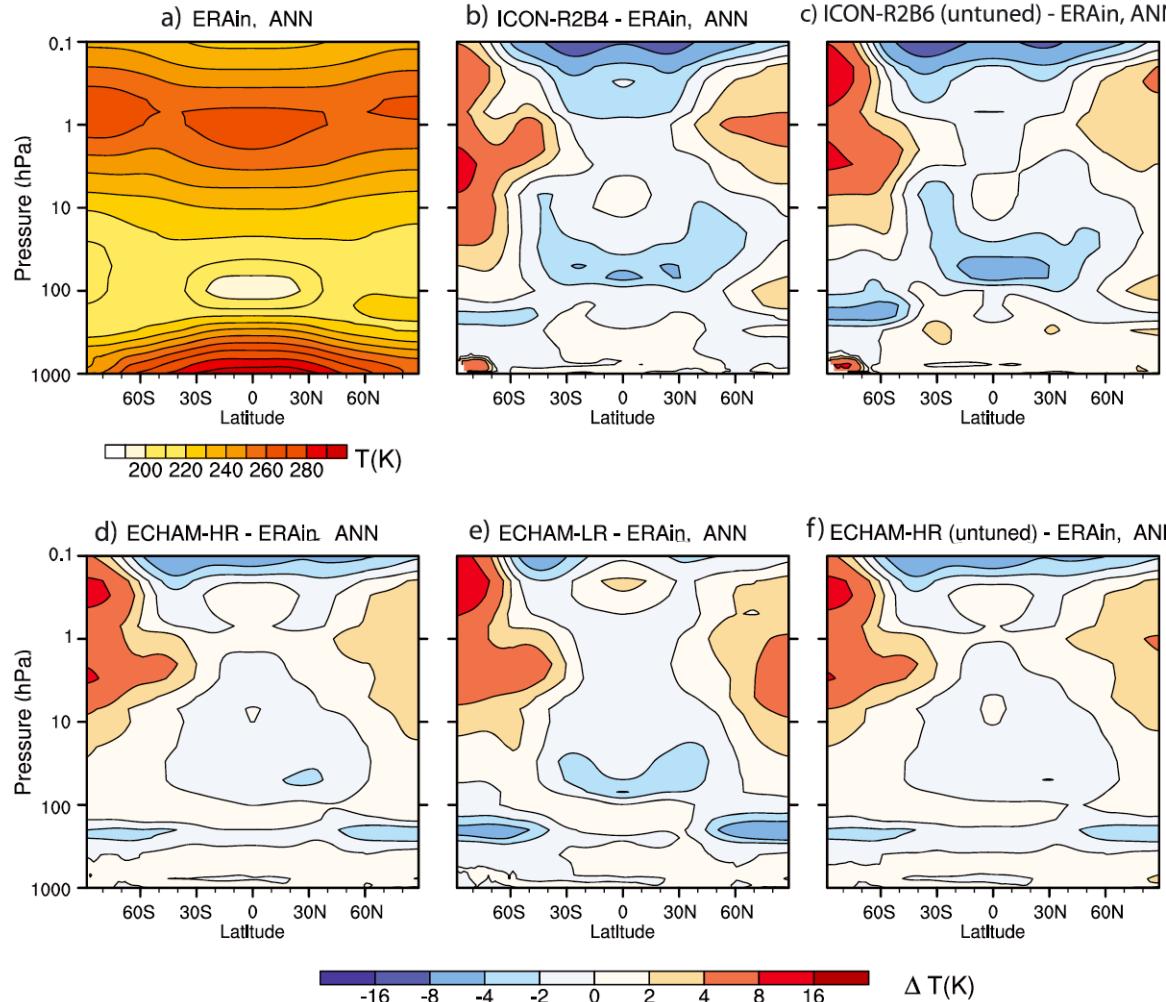


Colors indicate anomalies of the NAM (Northern Annular Mode) index

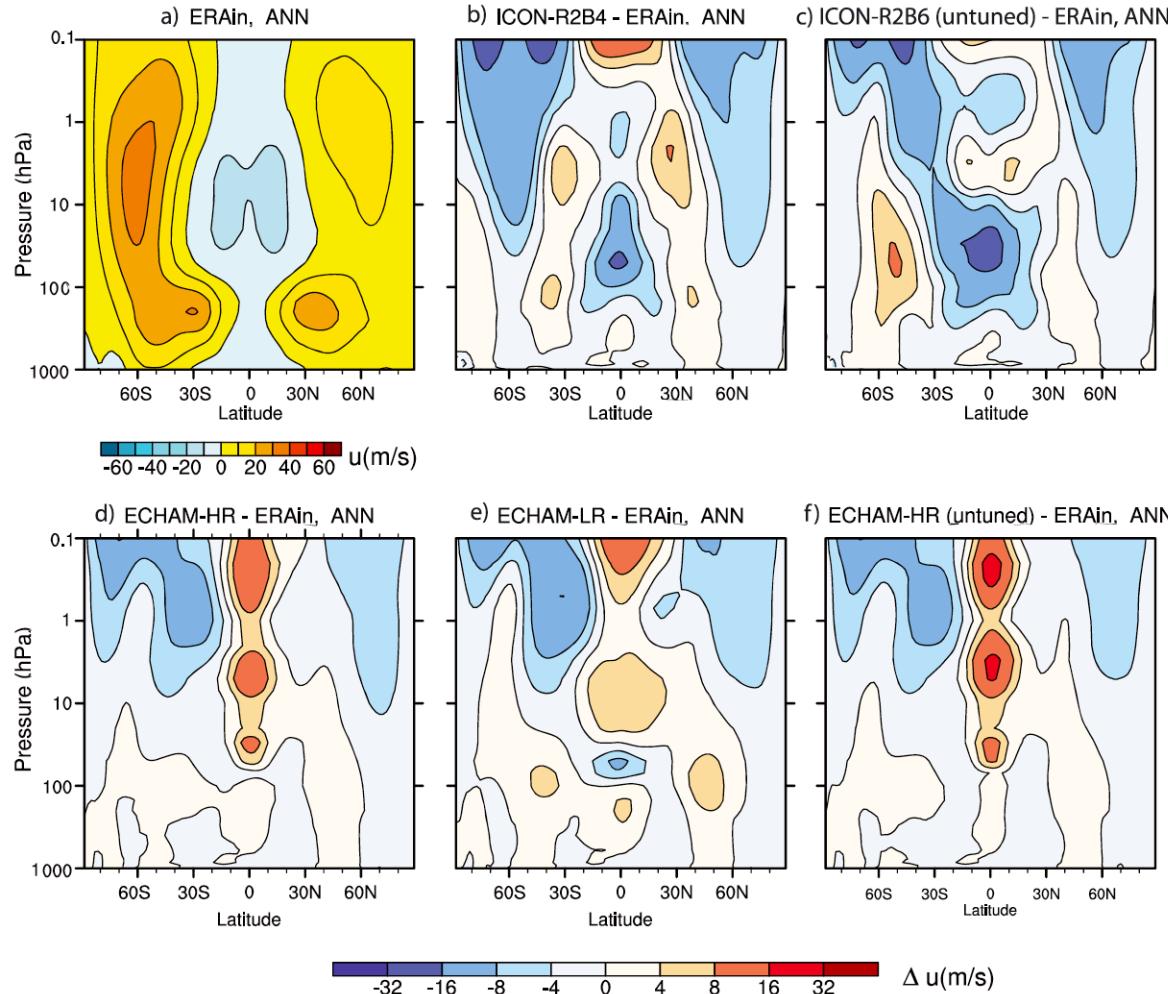
NH stratosphere-troposphere coupling across time scales



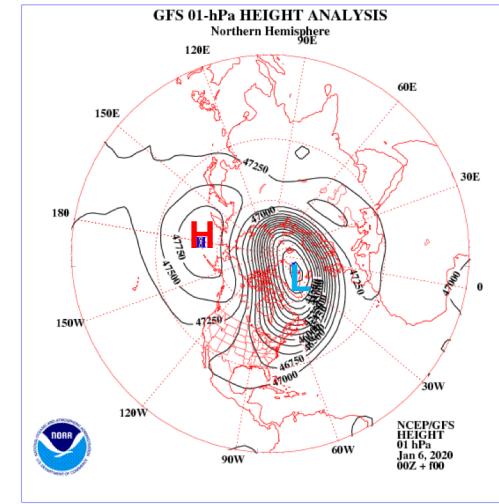
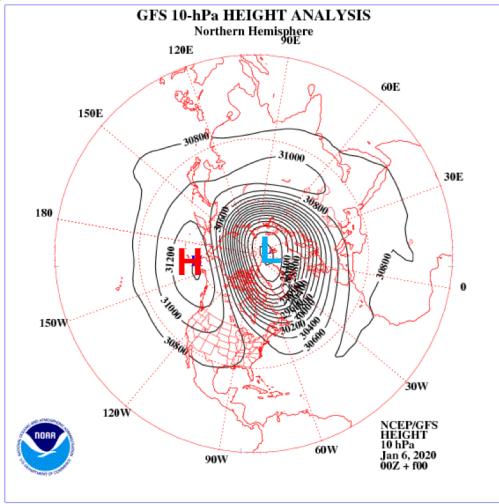
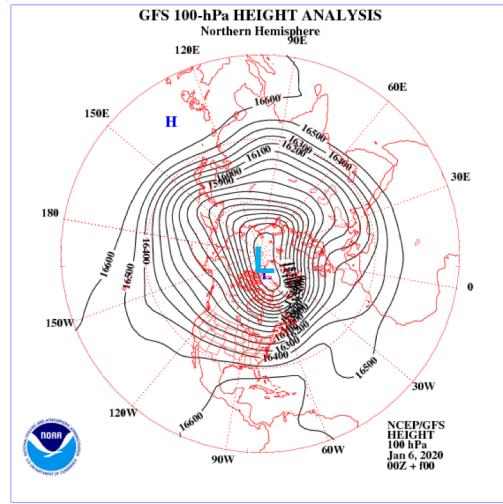
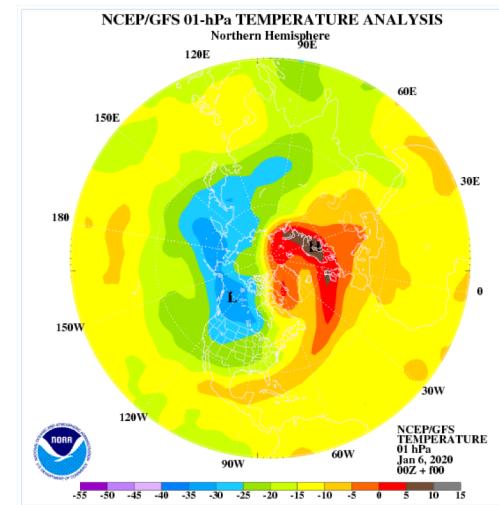
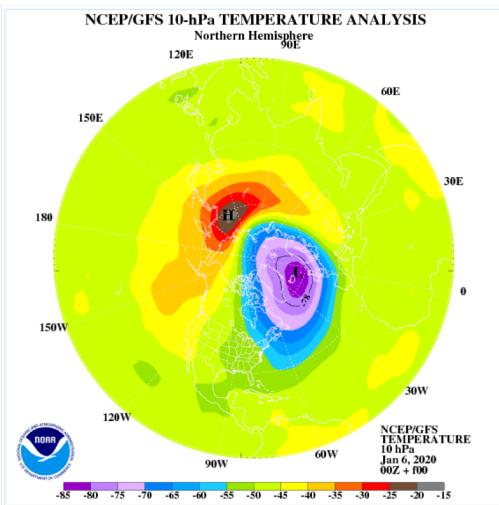
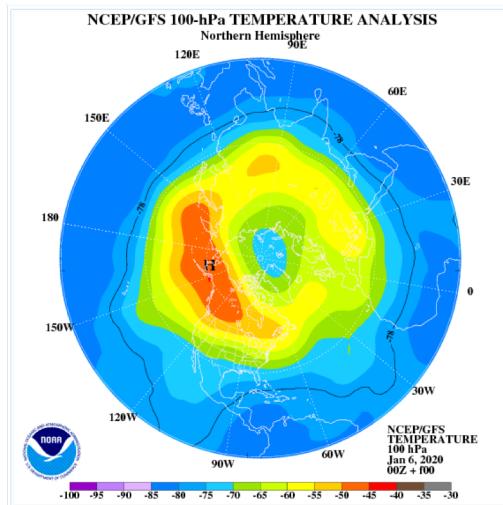
Zonal mean temperature biases in different MPI-M models



Zonal mean zonal wind biases in different MPI-M models



Current NH temperatures and geopotential heights



Current SH temperatures and geopotential heights

