



## Temperature trends in the lower stratosphere

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It is well known there is a negative temperature trend in the stratosphere due to decreasing ozone concentration and increasing concentration of greenhouse gases. For the evaluating of temperature trends researchers use predominantly the monthly means. In this poster we use the values of various quantils to find the differences in their trends comparing to monthly mean in the period 1979-2008. The authors also aim is to answer the question if there is some change in negative temperature trend in the stratosphere after 1995 when the increasing of total ozone was observed. We use piecewise linear regression with the breakpoint in 1995. We use NCEP/NCAR reanalysis data from 10 hPa in winter.