Detail Analysis Of Stratospheric Trends Using ERA5

Michal Kozubek*†1, Katerina Podolska¹, and Peter Krizan¹

¹Institute of Atmospheric Physics [Prague] – Bocni II 1401, 141 31 Prague, Czech Republic, Czech Republic

Abstract

We analyze temperature, wind and other dynamical parameters climatology and trend. We study trends for every decade from 1980 to 2020 and their changes during this period. This study is focused on the pressure levels between 100-1 hPa which covers whole stratosphere and part of the mesosphere. We will also analyze impact of SSW or other stratospheric phenomenon. This will help us to find detail of trend behaviour in stratosphere. ERA 5 is one of the newest reanalysis which is widely used for middle atmospehere. It based mainly on the sattelite observations.

Keywords: ERA 5, homgeneity test, long term trends

*Speaker

[†]Corresponding author: kozubek.michal@ufa.cas.cz