

New reanalyses and how they behave in the stratosphere

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During 2017 several new global reanalyses has been released (MERRA2, ERA5 or CFS v2). We compare behaviour of several parameters which are very important in the stratospheric dynamics and climatology. We analyze and compare temperature, wind and ozone climatology with existing observations. Next we analyze important stratospheric phenomena like SSW, QBO or ENSO and their interpretation in these new reanalyses. We analyze whole available periods for each reanalysis. Finally we computed trends of basic parameters for comparison and look for the possible discontinuities in the time series. This analysis will show us the improvement of the new reanalyses especially in the stratosphere.