

There is studied an influence of dynamical processes in atmosphere on the total ozone and its vertical profile in this work. There are described known atmospherical processes with influence on ozone variability and statistical methods used in the work at first. Then is studied connection between ozone and tropopause height. There are also monitored time trends of ozone and tropopauze height. There are computed modes of variability for the field of the geopotential in pressure levels from 500 to 10 hPa in the next part of the work and there is studied a statistical connection between computed modes and ozone. There is constructed linear regression model from time trend and computed modes. This model describes considerable part of the ozone variability and there are discussed possibilities of use some similar model for prediction of the total ozone in the resume.