

You are welcome to nominate speakers to [colloquium@nao.cas.cn](mailto:colloquium@nao.cas.cn). The video and slides of previous colloquia and more information can be found at <http://colloquium.bao.ac.cn/>.

# 国台学术报告 NAOC COLLOQUIUM

2018 年 第 24 次 / No. 24 2018

Time: **Wednesday 2:30 PM, Sep.5th** Location: **A601, NAOC**

## Monitoring of the ozone layer above Switzerland: Variability from diurnal to decadal scales

**Prof. Klemens Hocke**

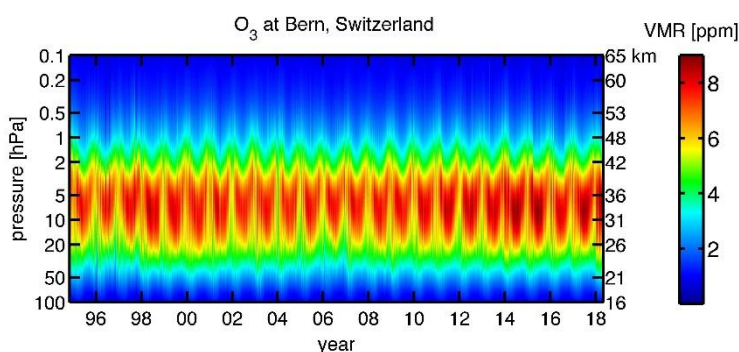
**Institute of Applied Physics of University of Bern (Switzerland)**



Prof. Klemens Hocke obtained the PhD at University of Goettingen in Germany in 1994 for a thesis on traveling ionospheric disturbances observed by the EISCAT radar. From 1996 to 2003, he worked on atmosphere sounding by GPS radio occultation and MF radar at Graz (Austria), Kyoto & Tokyo (Japan), Neustrelitz and Potsdam (Germany). Since 2005 he works on passive microwave radiometry of atmospheric ozone and water at Institute of Applied Physics of University of Bern (Switzerland). He got the *venia legendi* for Atmospheric Physics in 2014, and he is the leader of the group Atmospheric Processes.

### Abstract

We measure vertical profiles of stratospheric ozone by a ground-based microwave radiometer at Bern, Switzerland. The presentation shows the variability of stratospheric ozone on time scales from a day to decades. The reasons of the ozone variability at mid-latitudes are the diurnal and seasonal change, deformations and movements of the polar vortex, and long-term atmospheric composition changes (e.g., forced by the Montreal protocol in 1989 which banned the emission of ozone depleting substances).



*All are welcome ! Tea and coffee will be served at 2:15 PM.*