

6th December 2018, 15:00 s.t.

Raimund Wörl

Leibniz – Institut für Atmosphärenphysik

Fe lidar observations in the polar mesopause region

I will give an overview on measurements and results of the IAP Fe lidar obtained during the last years. The Fe lidar is a resonance lidar probing the Fe layer in the mesopause region. I will give an introduction on the instrument and on the upper atmosphere. In a first part I will start with a more general treatment of the climatology of temperature and the metal layer. Two campaigns in Antarctica and a still ongoing campaign in the Arctic allows to compare both hemispheres. In a second part the talk will focus on a single day during a sounding rocket campaign and compare the results of different instruments.