

Photos from Mt. Wendelstein (1838m), Bavaria, Germany

110813-Crepuscular rays



110813-Anticrepuscular rays



110814-Yellowish layer at sunrise



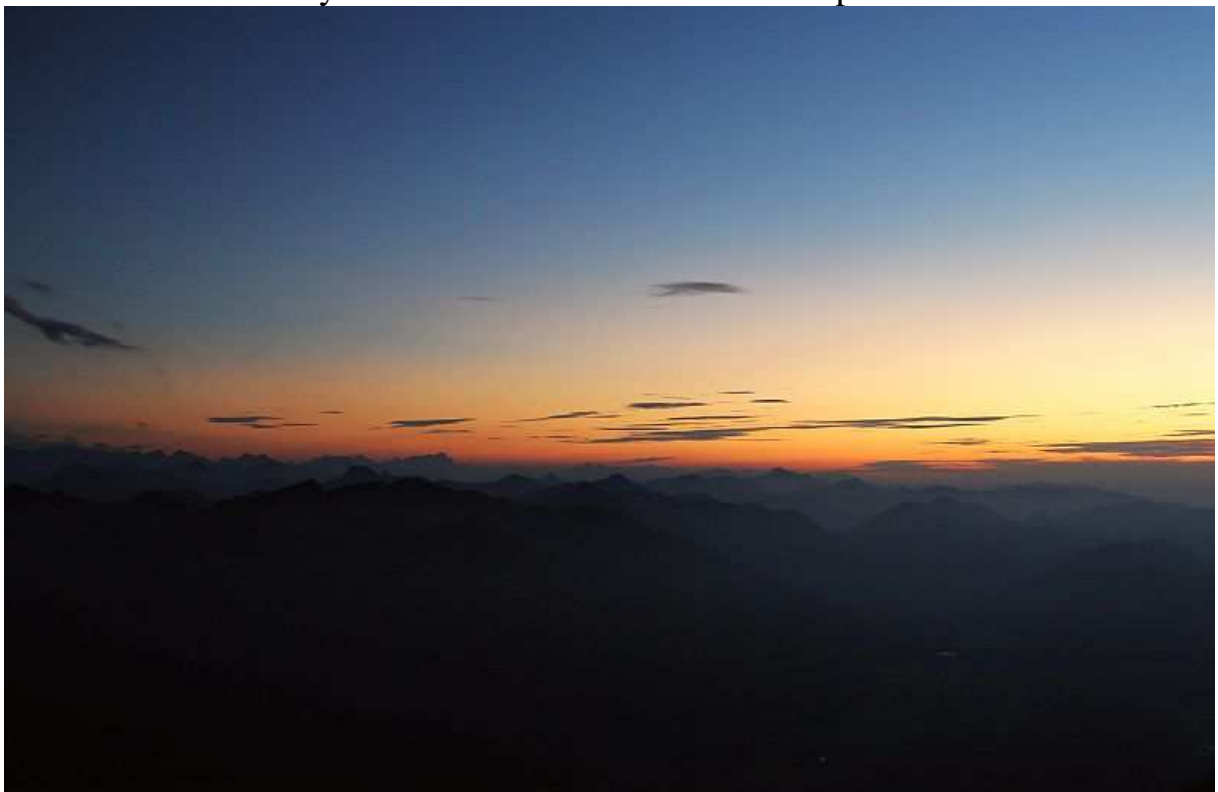
110817- Crepuscular rays



110817- Illuminated layer in a high of 15-19 km.



110817-Yellowish layer above the German/Austrian Alps



110817-Tenuous purple light up to zenith

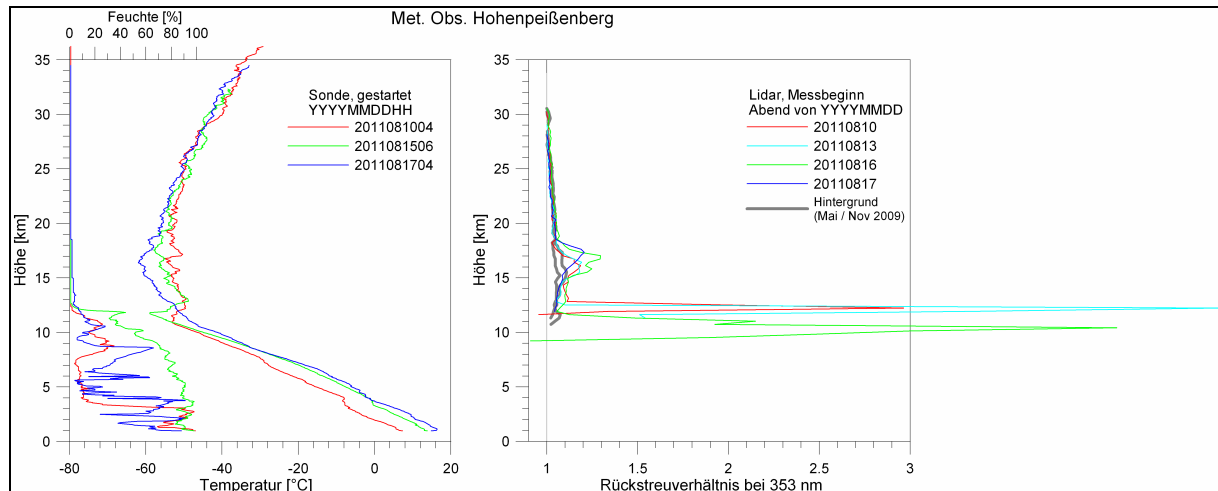


110817-Shadow of Mt. Zugspitze in the aerosol layer



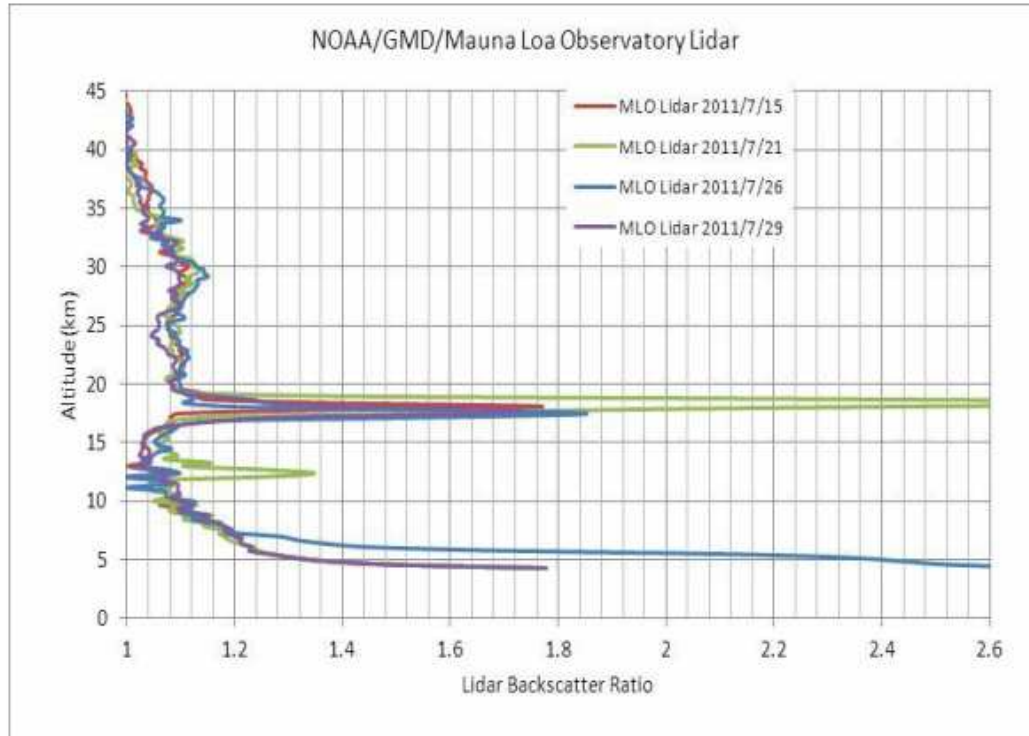
Measurements and plots

Plot Hohenpeissenberg, Germany



Mauna Loa, Hawaii

Observation of aerosol peak in stratosphere at 18 km in July 2011. Lidar backscatter ratio at 532 nm is shown. Peak was not there on 2011/7/7.

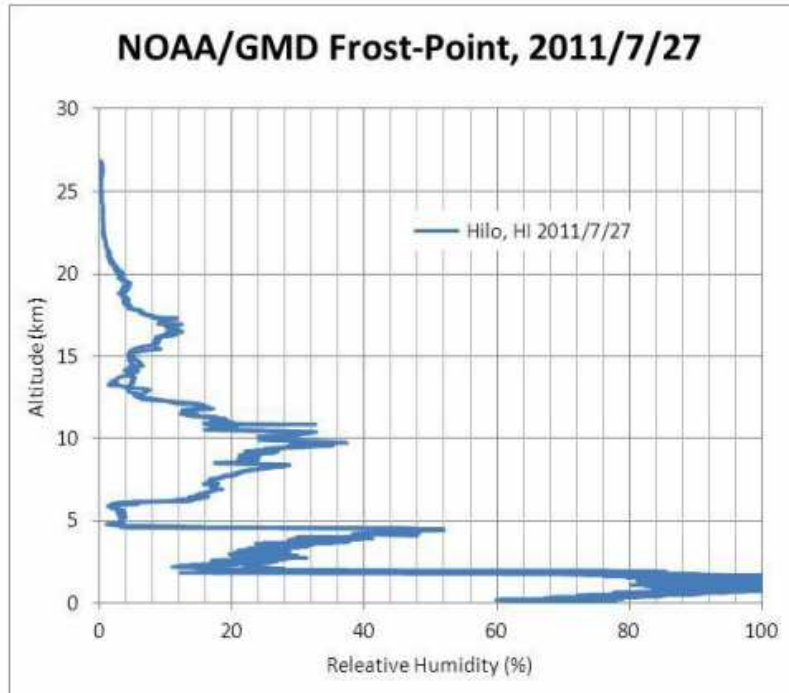


At the highest backscatter (2011/7/21) the aerosol optical depth (AOD) of the peak was approximately 0.02, using $\text{Ext}/\text{Backscatter}=50$.

The color ratio (Backscatter at 1064 nm / Backscatter at 532 nm) was 0.285.

Hilo, Hawaii

NOAA Frost-Point hygrometer flight from Hilo, Hawaii. A peak is visible at 18 km but the RH is far below the level for condensation.



Evora, Portugal

