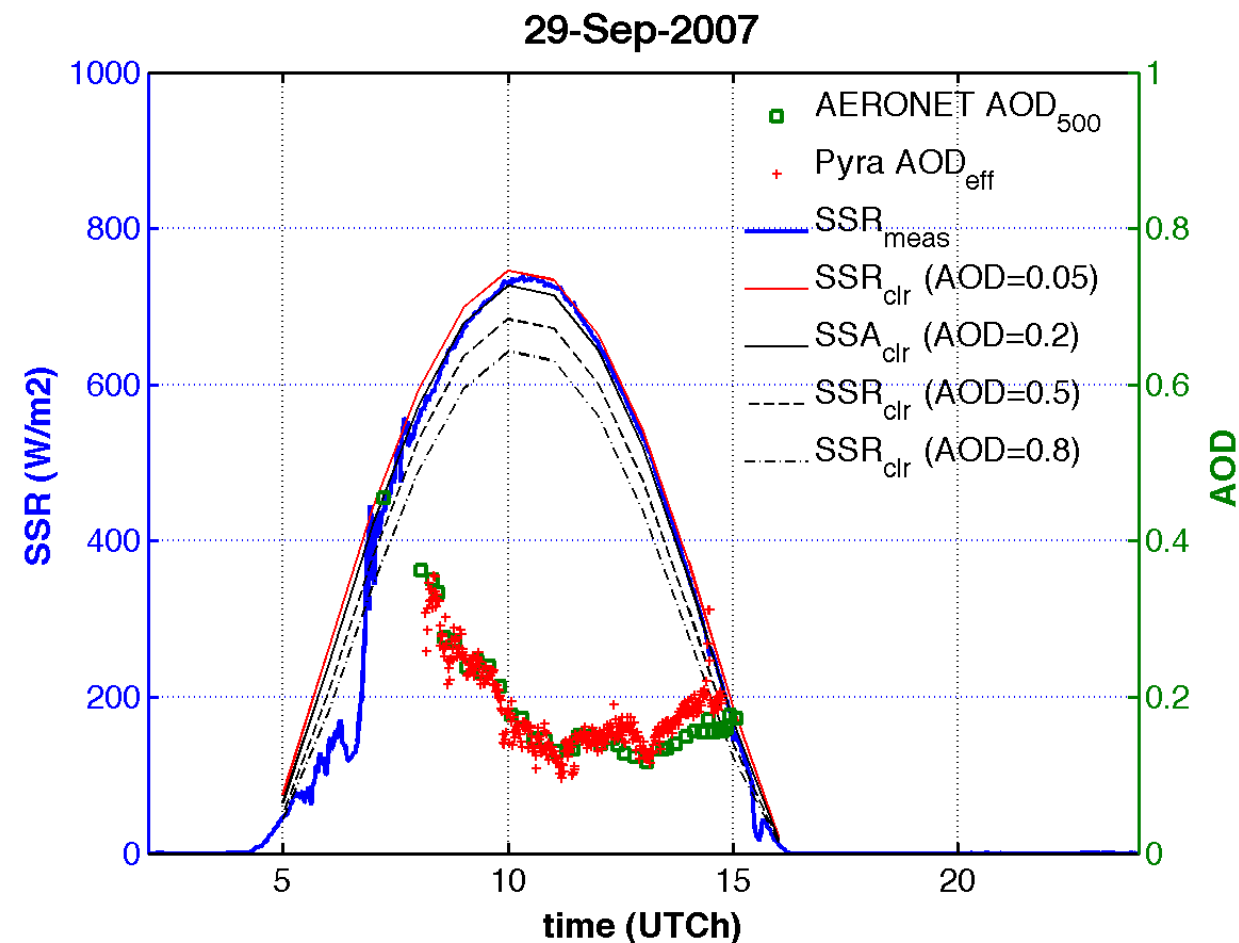




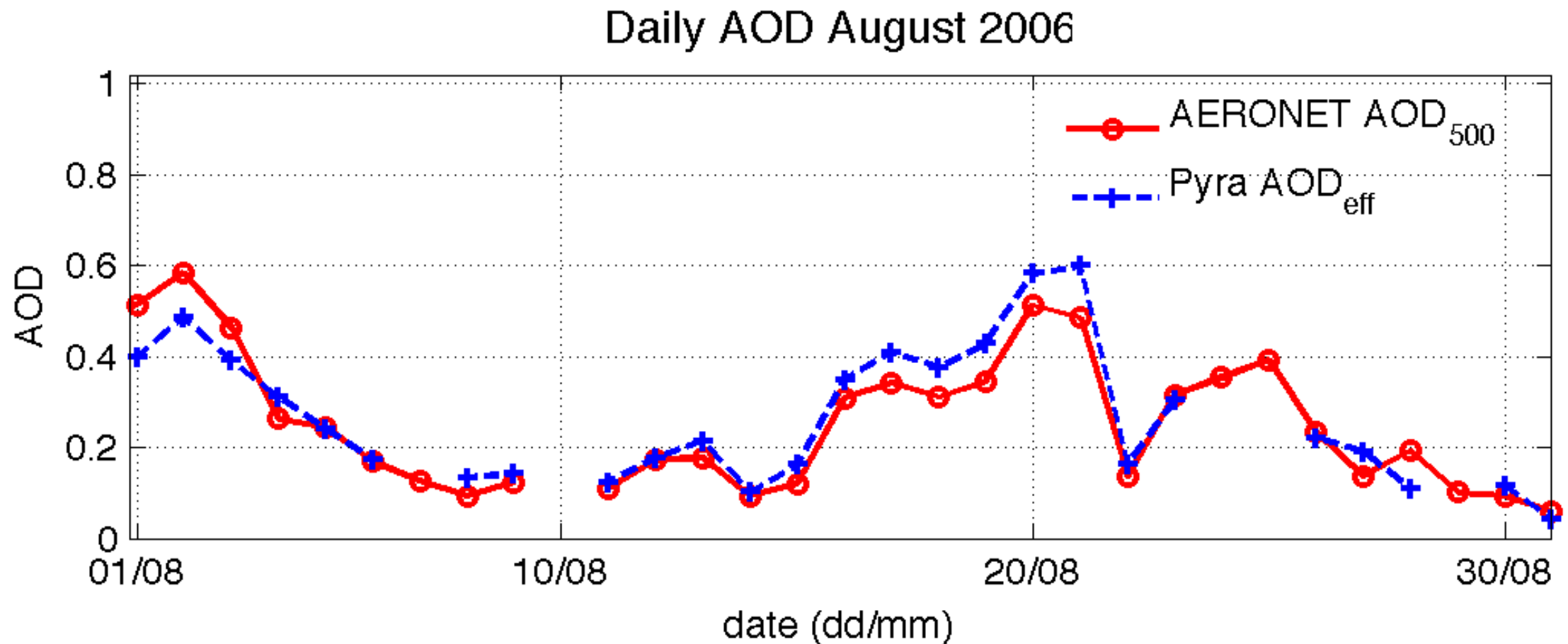
# Effective aerosol optical depth from pyranometer measurements of global solar radiation at Thessaloniki, Greece

- Pyranometers measure the **surface solar radiation (SSR)**, also called global radiation)
- SSR data are widely available and cover **long time series (1950s →)**
- These data constitute a potential source of information on atmospheric aerosol load
- We present a method for inferring the **effective AOD** from the **SSR**
- Compared against **AERONET AOD** at Thessaloniki, Greece





# Daily **Pyranometer AOD** vs. **AERONET**



Overall performance compared to AERONET AOD is similar to or better than that of MISR and MODIS