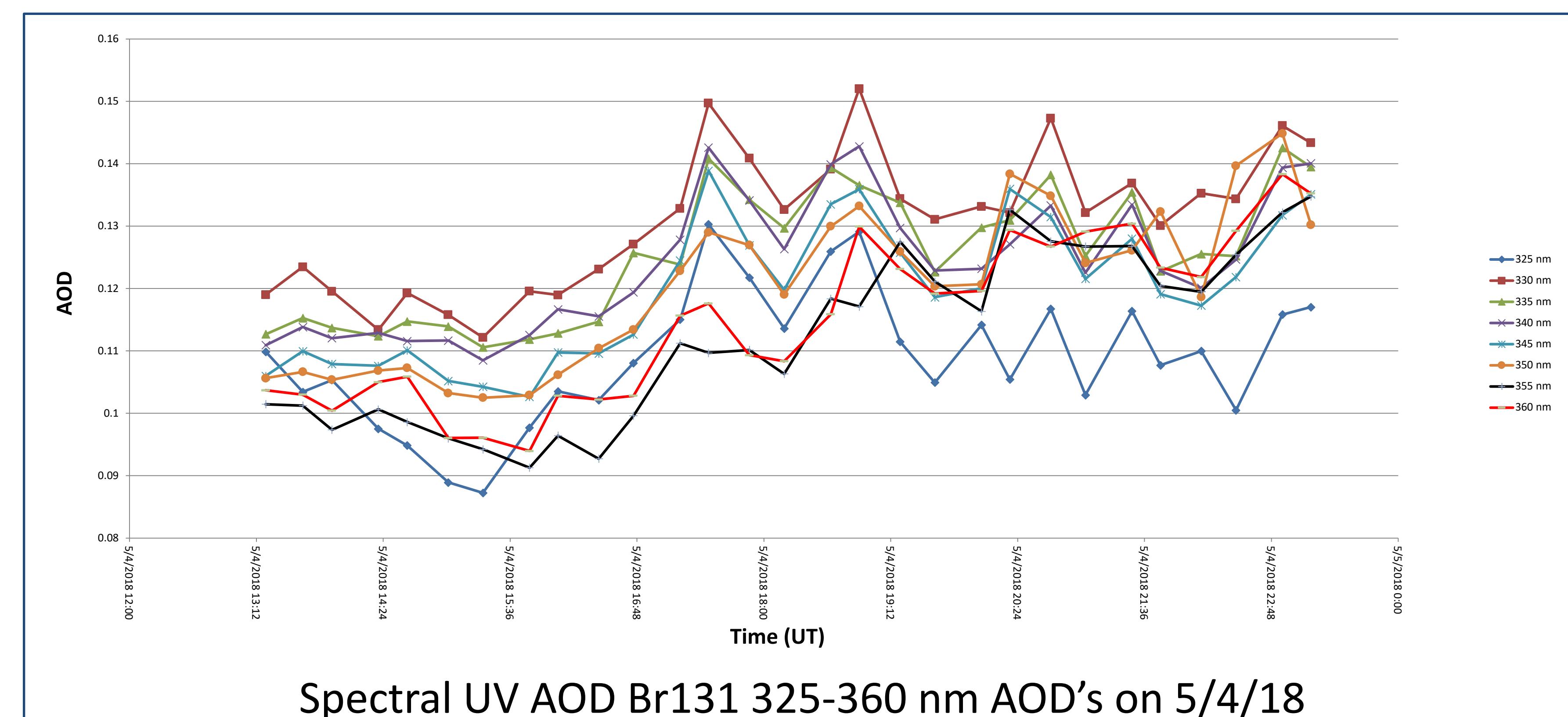
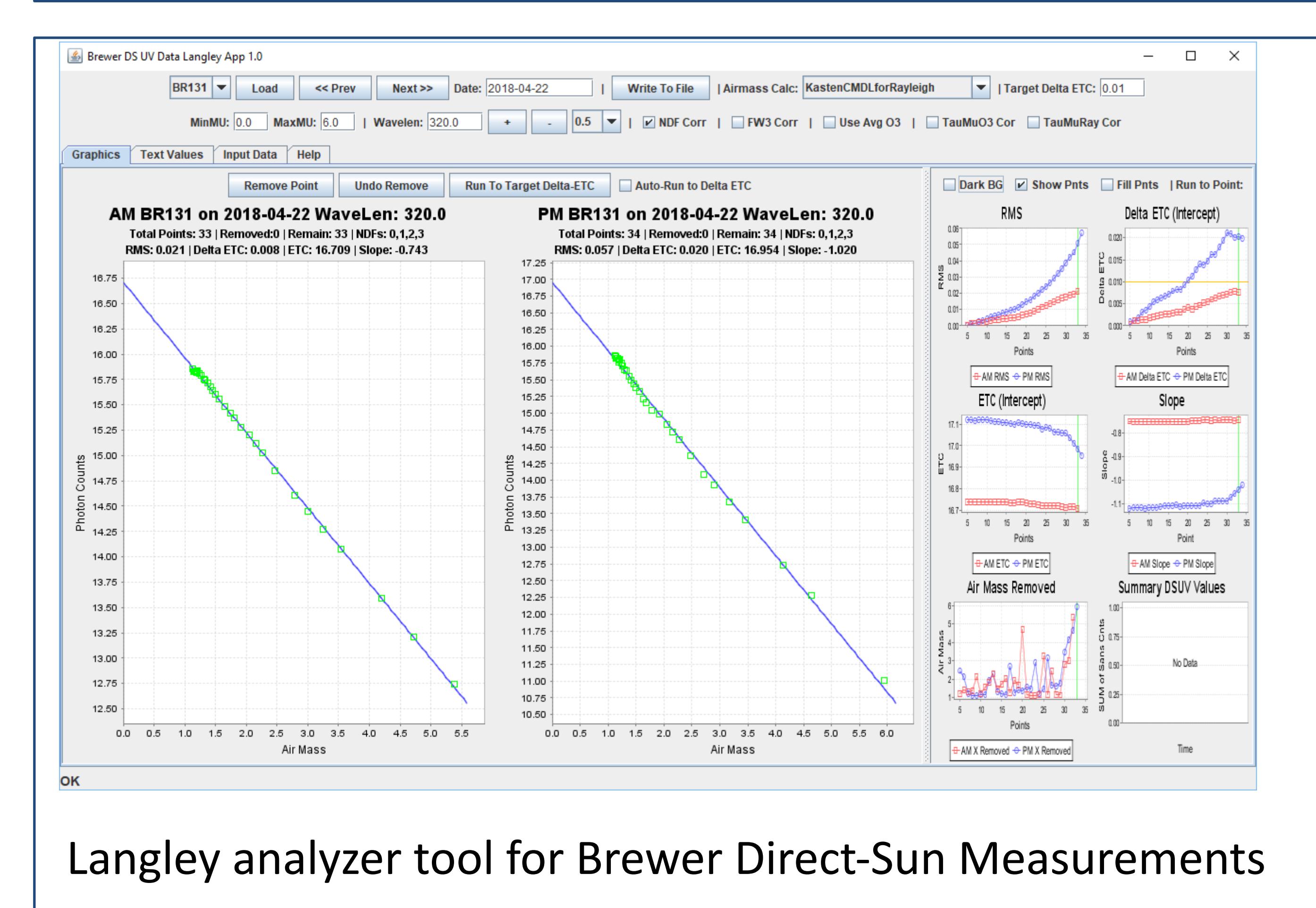
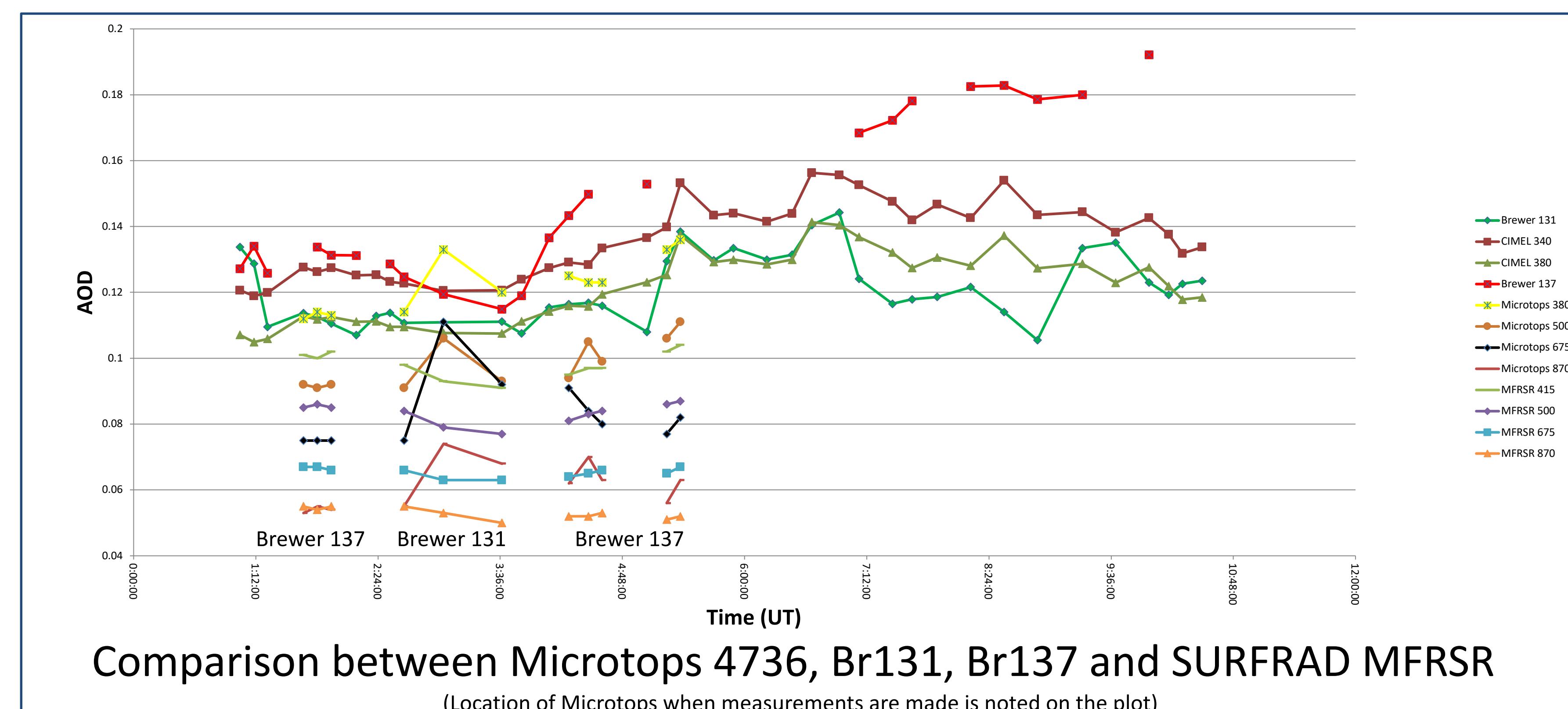
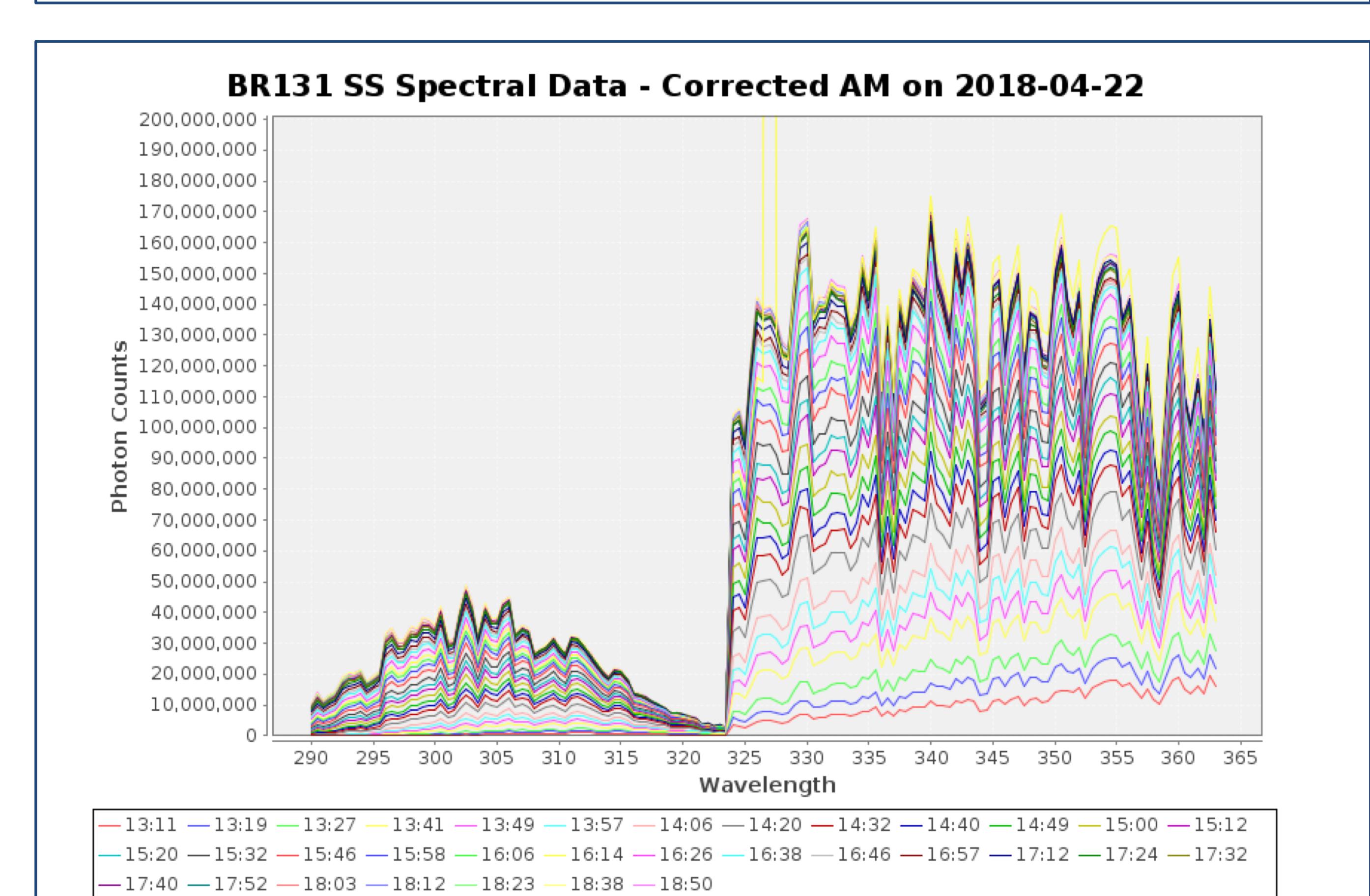
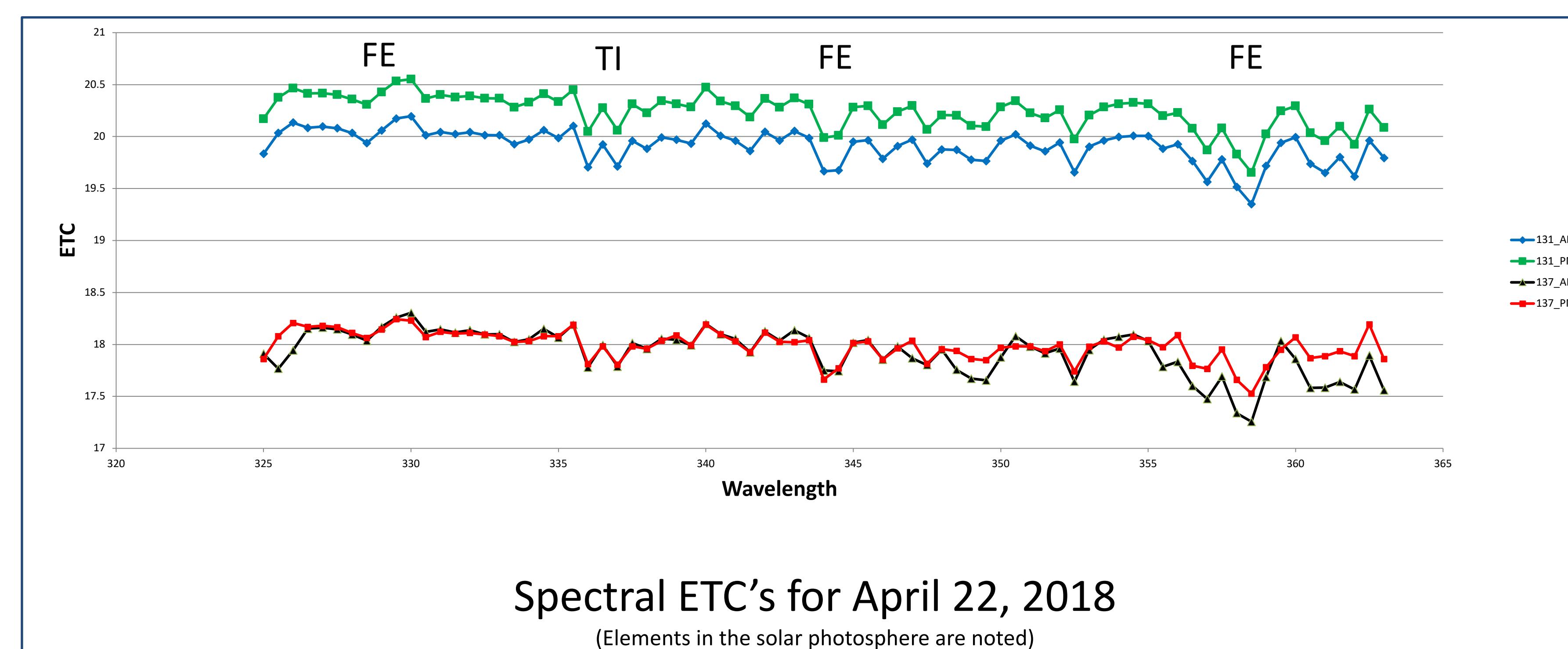
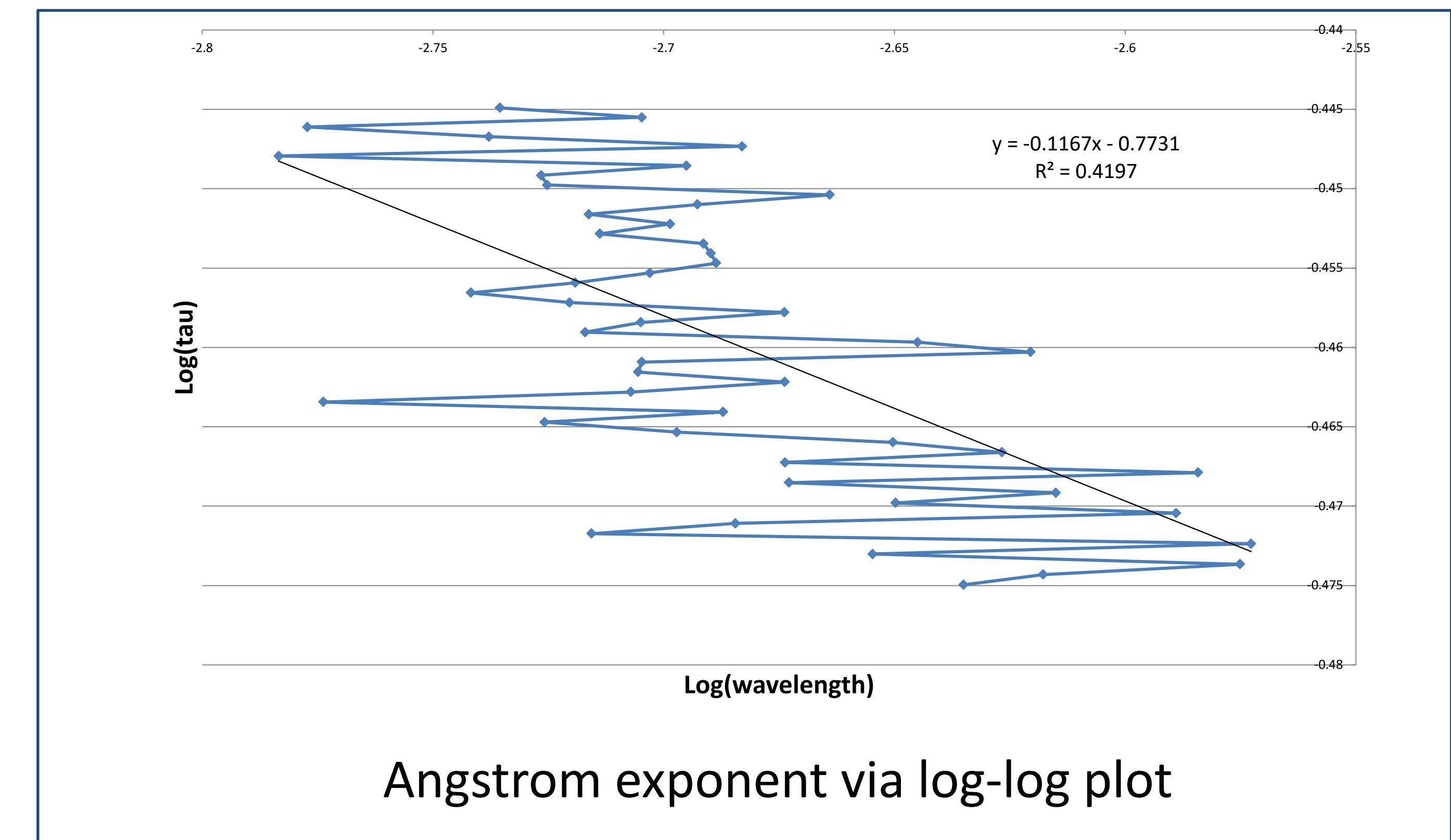
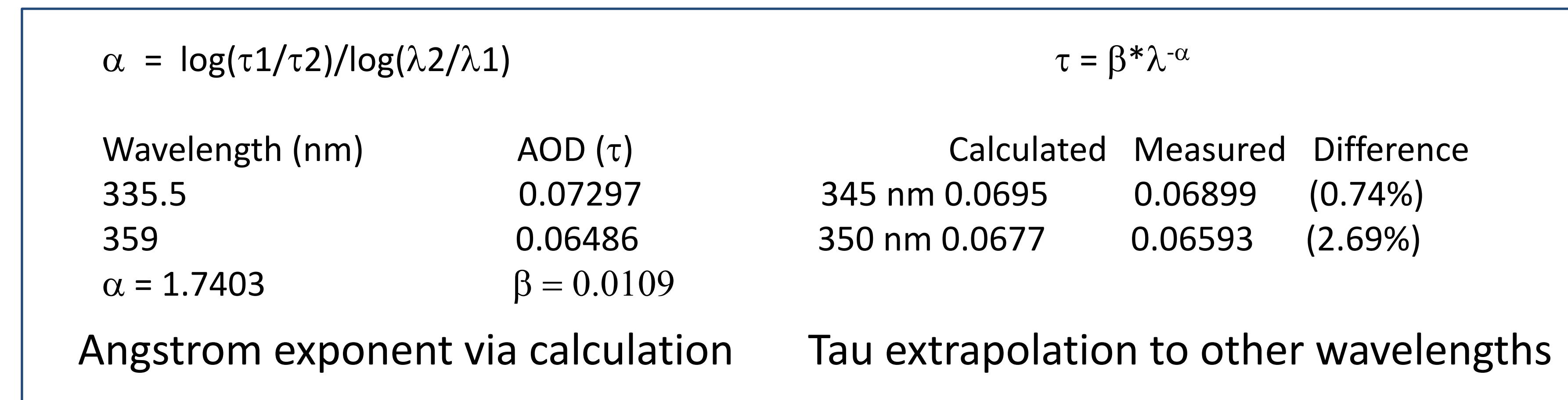
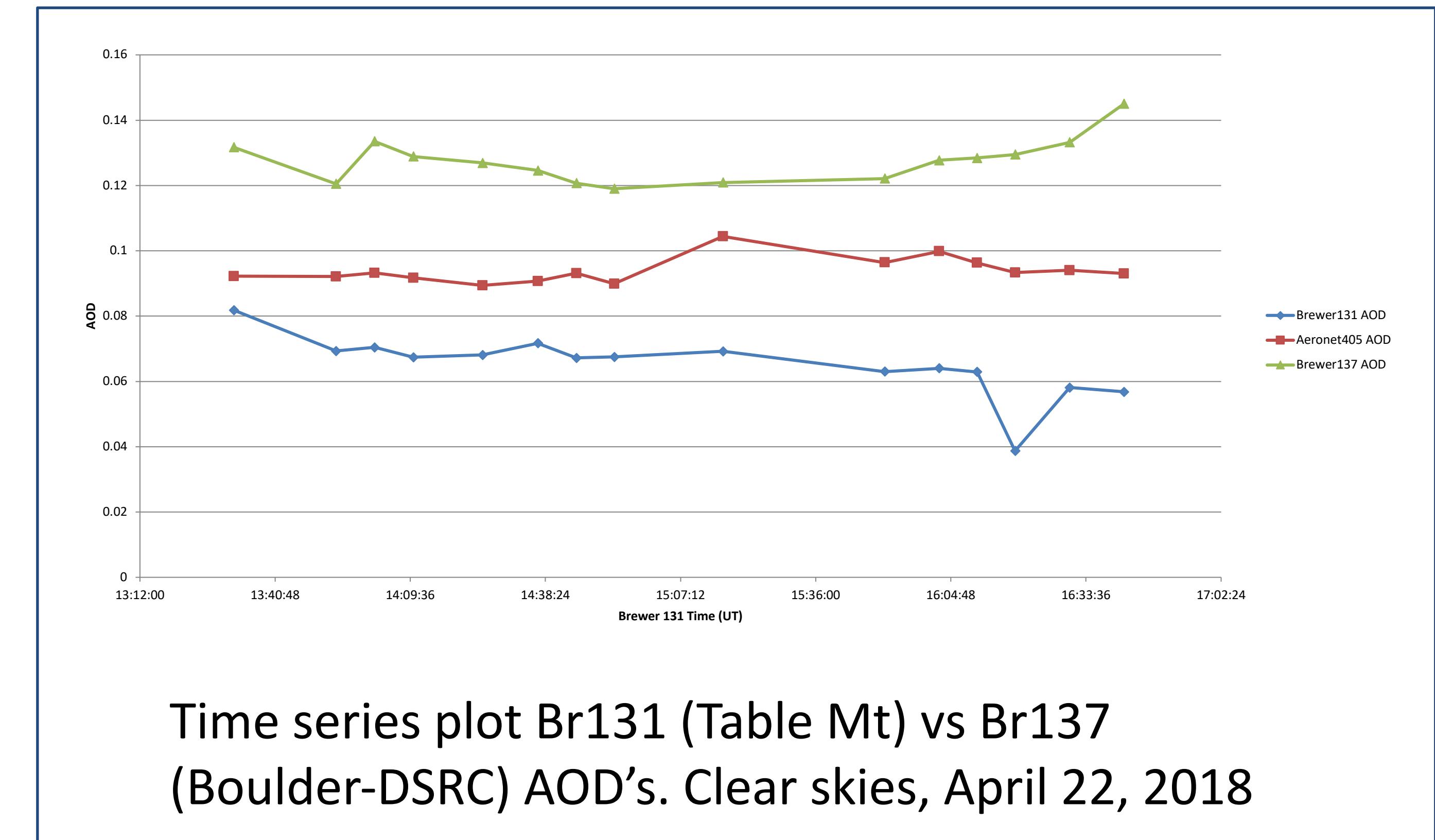
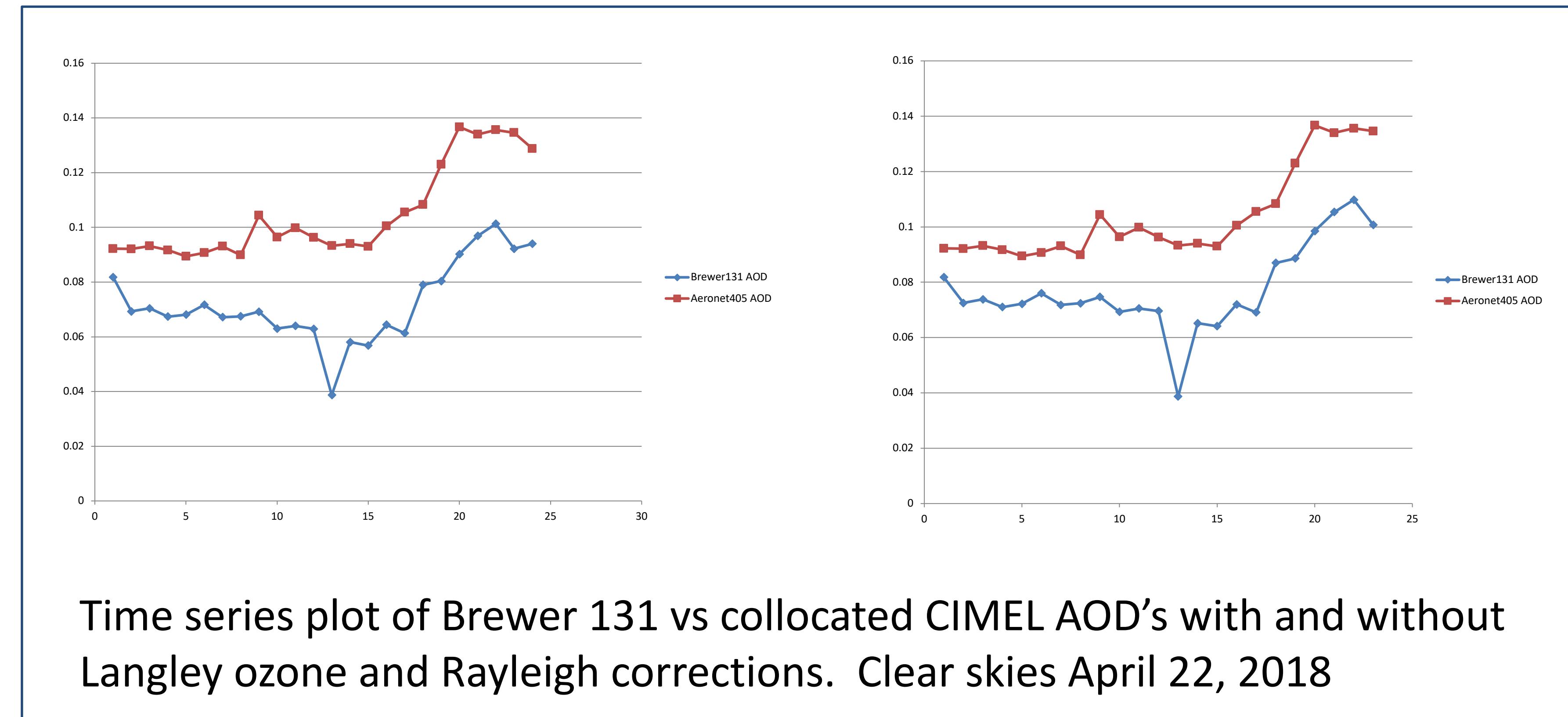


Status of NEUBrew Spectral UV Aerosol Optical Depth

Patrick Disterhoff and Scott Stierle



The Brewer Mark IV spectrophotometer is capable of making direct-sun (2.7 degree FOV) spectral scans from 286.5 – 363 nm at 0.5 nm steps. NEUBrew started two Brewers, 131 and 137 (non-network) making direct-sun spectral measurements (SS scans) all day long. Brewer 131 is located at the TMTF field site and Brewer 137 is located on the penthouse of the DSRC, approximately 15 km apart. Brewer 131 is collocated with AERONET's CIMEL sunphotometer #704 and a SURFRAD MFRSR. Measurements were made on a particularly calm and clear day, May 4, 2018 at both locations with a hand-held Microtops II sunphotometer calibrated for aerosol optical depth. The Microtops acted as a relative comparison reference. Results of these measurements along with the SURFRAD MFRSR AOD's at 500, 675, and 870 are compared to the Microtops.



- Future work:
- Add in 300-323.5 nm wavelength region
 - Resolve differences between Brewers 131 and 137
 - Estimate AOD uncertainties