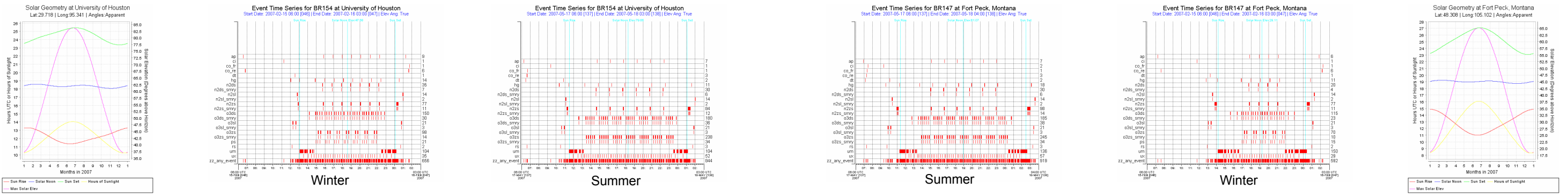




<http://esrl.noaa.gov/gmd/grad/neubrew/>
Scott Stierle, Patrick Disterhoft and Peter Kiedron

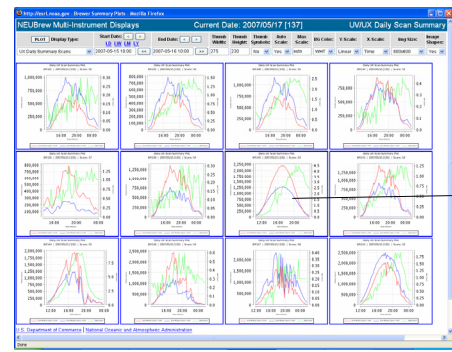
Schedule Characteristics at Lower Latitude Station

Schedule Characteristics at Higher Latitude Station

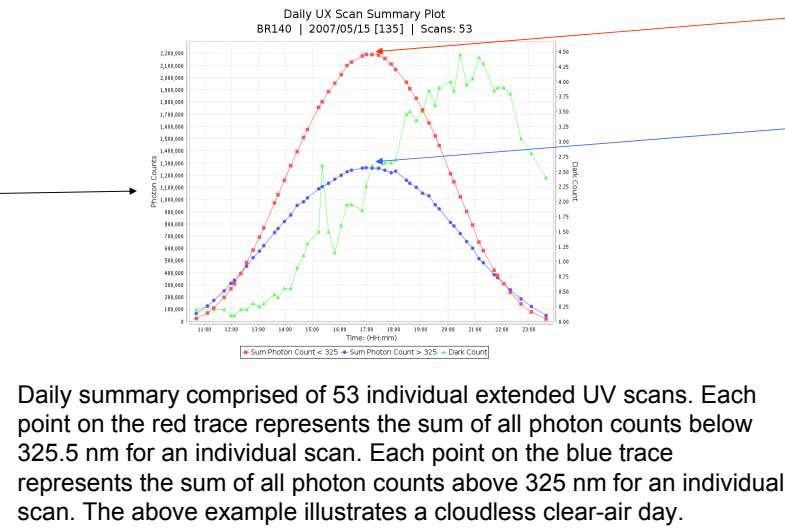


Daily Integrated Summaries of Extended UV Scans

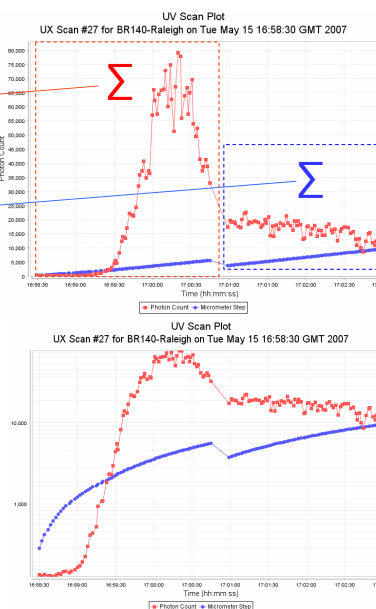
Individual UV Spectral Scans



Daily UV Summaries of network instruments. Graph can be expanded by clicking on the image.



Daily summary comprised of 53 individual extended UV scans. Each point on the red trace represents the sum of all photon counts below 325 nm for an individual scan. Each point on the blue trace represents the sum of all photon counts above 325 nm for an individual scan. The above example illustrates a cloudless clear-air day.



Linear

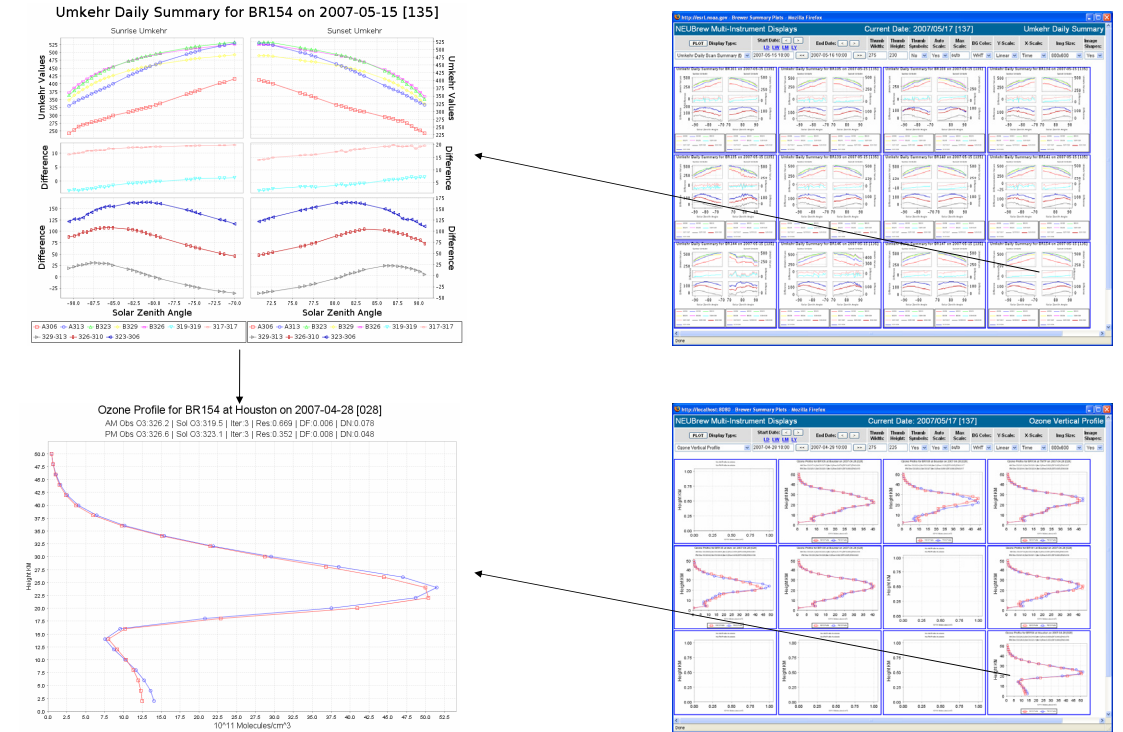
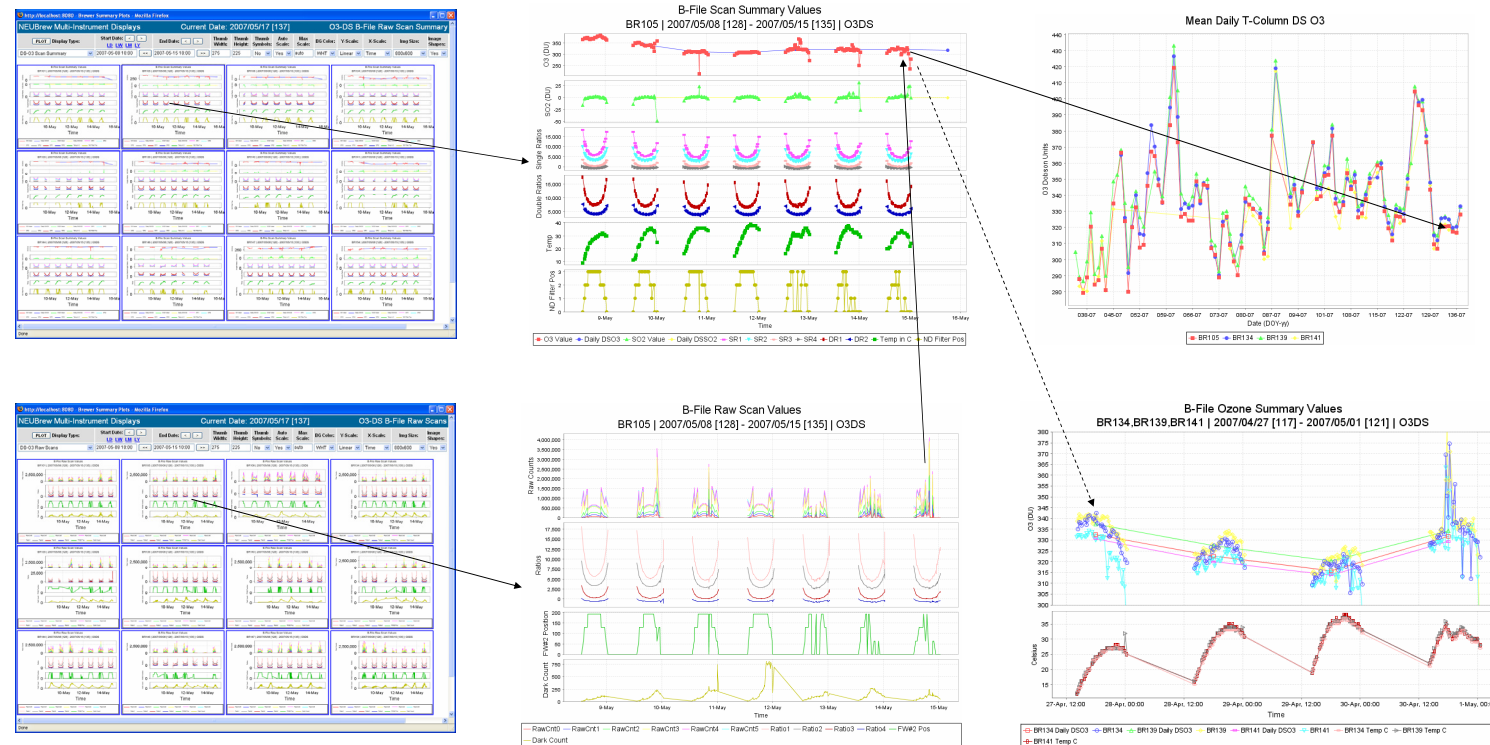
Logarithmic



UV Scan display showing each UV spectral scan made during a given day. Graph can be expanded by clicking on the image.

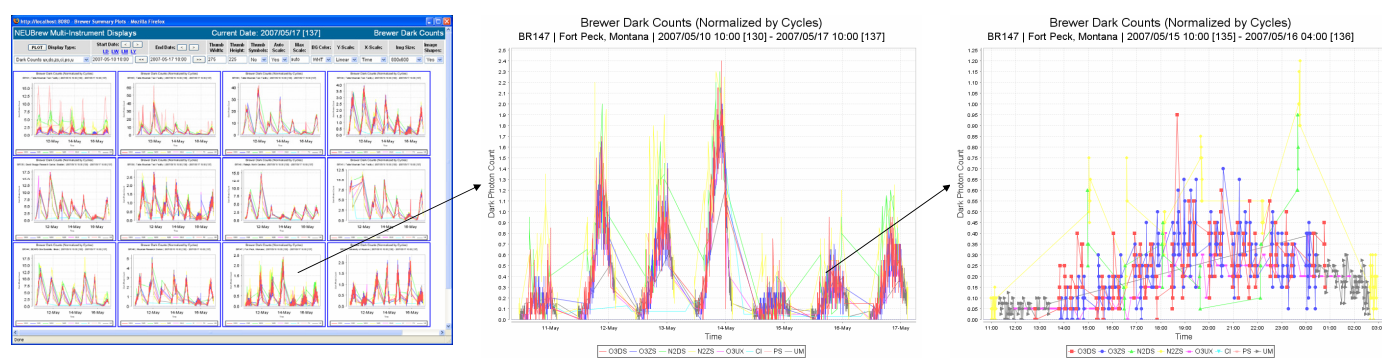
Direct Sun Ozone Measurements

Umkehr Ozone Profiles

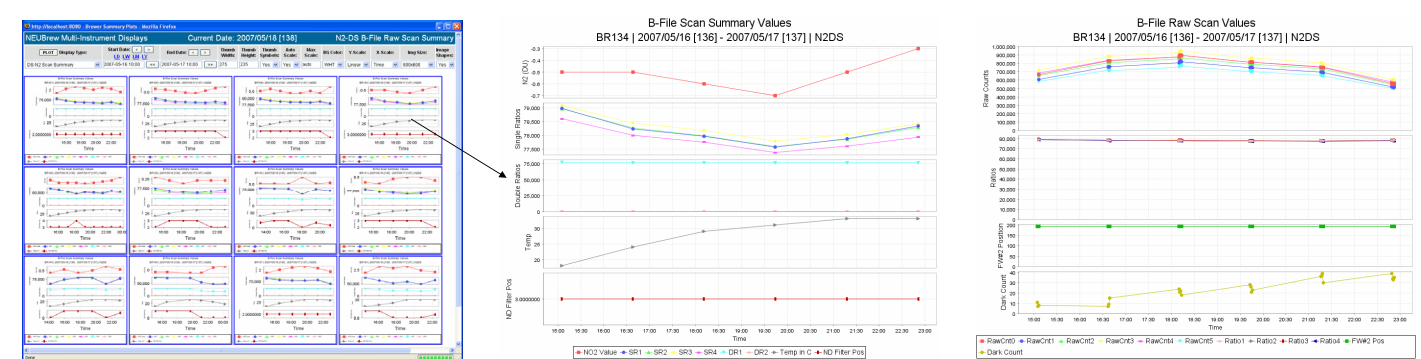


Brewer Measurement Dark Count Comparisons

Direct Sun NO₂ Measurements



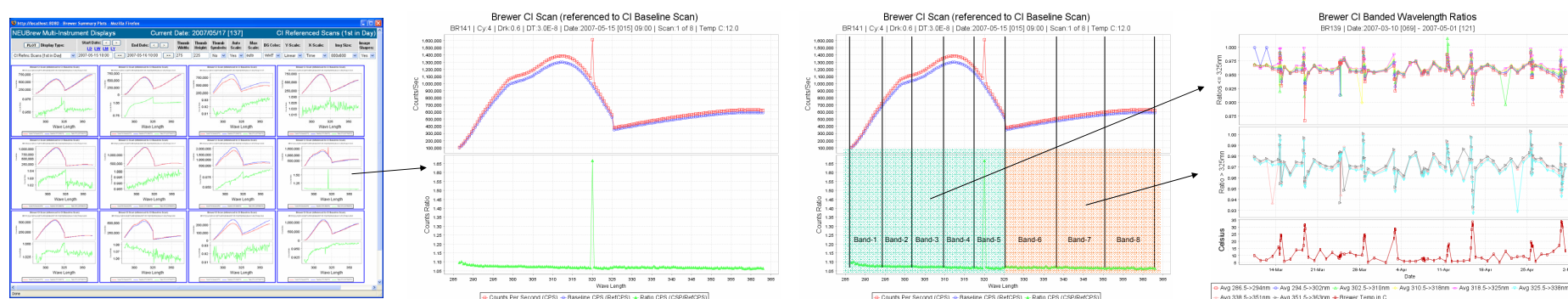
Monitoring Dark Count trends to verify proper operation of the Brewer's Slit-Mask and Photomultiplier Tube.



Raw NO₂ Data are currently being collected with the intent of reprocessing these data as algorithms are defined.

Internal Halogen Lamp Scans and Long-term Time Series

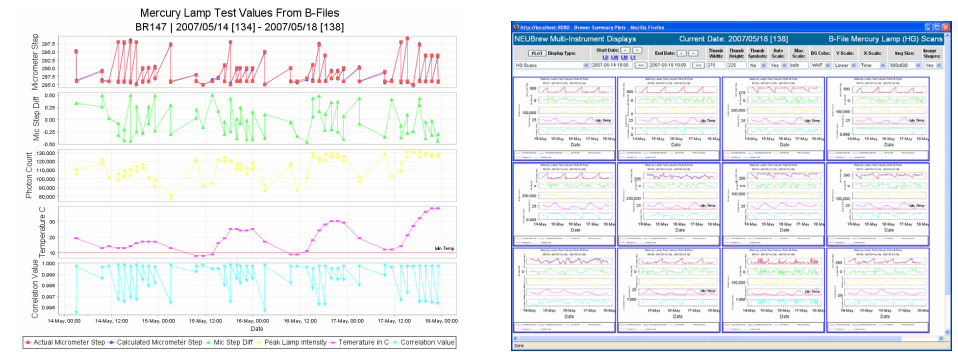
Internal Mercury Lamp Scans



Generating a ratio for CI scans compared to an instrument's baseline reference CI scan.

Averaging CI ratios into 8 wavelength bands.

Long-term monitoring of an instrument's CI ratio trends.



Periodic scans of the Mercury Lamp help maintain the stability of UV and Ozone retrievals.

Long-term Monitoring and Display of Brewer Generated Daily Average Statistics

