



NOAA-EPA UV and Ozone Monitoring Network: NEUBrew

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UV and Ozone Networks in North America



Network and its Objectives

The NEUBrew Network was established in 2006. All network Brewers were calibrated for total column ozone against the WMO's traveling standard Brewer 017 by International Ozone Services. The Brewers are calibrated yearly for spectral UV irradiance by NOAA's Central UV Calibration Facility. Data from this network are available at the NOAA/ESRL/GMD web site:

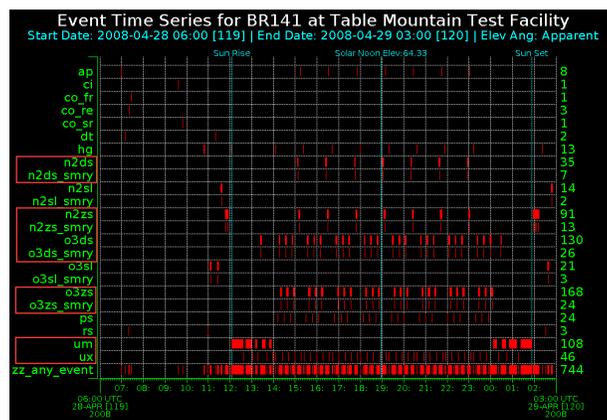
<http://esrl.noaa.gov/gmd/grad/neubrew/>

Primary objectives

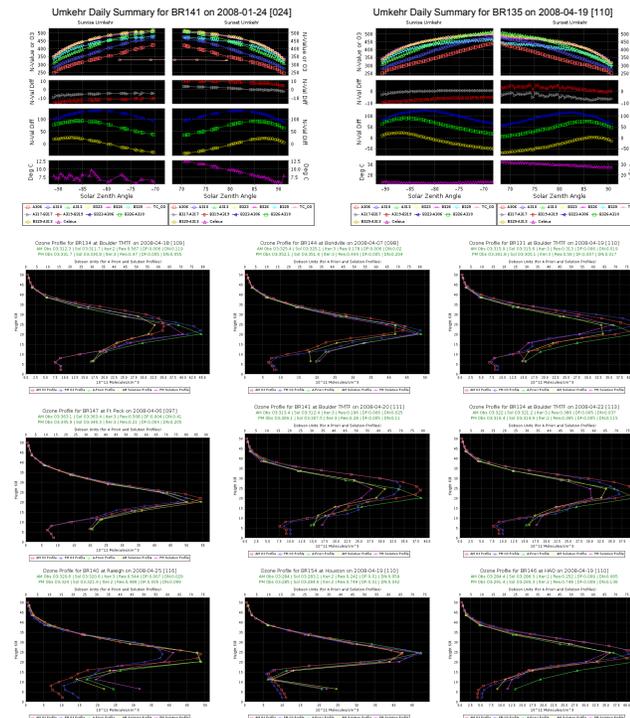
- Daily average ozone column (ds, zs)
- Ozone profile (um)
- UV total horizontal irradiance (ux)
- UV erythemal dose (uz)

Secondary objectives

- O₃ daily trends from ds and zs
- NO₂ column from zs
- SO₂ column from ds
- AOD from ds and ps
- O₃ from ux scans - all sky conditions



Ozone Profiles from Umkehr Data



UV Irradiance Scans

UV Index and Daily Erythemal Dose

Ozone Column Trends Compared with OMI

