

Spatial Variability Study – May 26, 2008

Mobile Kanpur West

Instruments #3 (ONeill Mode) and #158 (BCL Sun near overpass times)

10:30 IST – no clouds, moderate haze

10:42 (Terra overpass) – no clouds, moderate haze

12:04 – 5% cloud coverage, cumulus, moderate haze

12:15 – 30% cloud coverage, cumulus, moderate haze, clouds overhead and interfering with sun measurements

1:03 p.m. – 60% cloud coverage, some cumulus clouds overhead, moderate haze, towering cumulus also developing

1:10 p.m. – clouds moved from overhead otherwise the same as previous

1:23 p.m. – 70% cloud cover, towering cumulus, moderate haze

1:41 p.m. – 70% cloud cover, towering cumulus and cumulus, moderate haze

1:53 p.m. (Aqua overpass) – 70% cloud cover, towering cumulus, moderate haze (sun moving behind clouds and reappearing)

2:10 p.m. – same as previous

2:20 p.m. – pack instruments

2:25 p.m. – trace of rain...temperature dropping quickly

2:29 p.m. – identified dust storm approaching from the west (light yellowish-brown hue in the boundary layer with the gust front)

2:30 p.m. – moderate dust, strong winds, light rain (large drops)