July 6, 2011 was heavily cloud covered for most of the day. There was clearing in the late afternoon (after 4 pm). However, Aldinoi had more sun observations than other sites.

O3 at 300-315 DU is fairly low, but all stations agree in the late afternoon.

O3 spikes to high values are caused by cloud cover increasing the effective air mass factor (AMF)

NO2 shows similar behavior

Microtops reading at GSFC was 315 DU

OMI from 0705 313 DU