## **Observations at Tenango del Aire II (chemistry)**

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Trace gas measurements at Tenango del Aire of O<sub>3</sub>, NO, NO<sub>x</sub>, NO<sub>y</sub>, VOCs, H<sub>2</sub>O<sub>2</sub>, CH<sub>2</sub>O, mol fraction ratios and correlations of O<sub>3</sub>/CO, O<sub>3</sub>/NOy, or CO/NO are analysed to elucidate photochemical aging in arriving air masses, and local or transport impacts associated with dominant wind directions. Observed mole fractions are clearly associated with two dominant wind directions, northeasterly and southeasterly. Higher levels are always linked to northeasterly winds. The Mexican Air Quality Standard of 110 ppb ozone was exceeded at least 10 days form March 3 to April 6 2006. The AOT40 is always exceeded from 00:09 to 18:00 local time during MILAGRO field experiment regardless of the wind direction.