

Formaldehyde in the Mexico city basin

Wolfgang Junkermann, Gerardo Ruiz and Claudia Mohr

Wolfgang Junkermann, Forschungszentrum Karlsruhe,
wolfgang.junkermann@imk.fzk.de

Formaldehyde in the gasphase was measured with continuous running instruments at three locations within the Mexico City basin during March 2006. The instruments were deployed at the sites Tenango del Aire, Instituto Mexicano del Petroleros and Universita Technologica Tecamac. Measurement technique is the 'Hantzsch' fluorimetric detection in the liquid phase after stripping of the water soluble formaldehyde in a stripping coil. Detection limit was ~ 100 ppt and time resolution was 2 minutes. On all sites pronounced diurnal variations were observed, highest values up to 35 ppb at IMP and comparable maximum levels between 15 and 20 ppb at the two other sites outside of the city area.

The poster presents the data series from all three sites.