



# Urban air quality and aerosol chemistry

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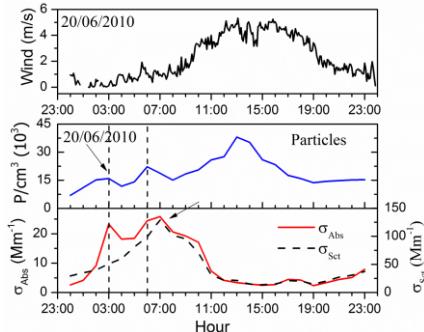


# Urban air pollution

**MILAGRO and Cal-MEX Campaigns** in Mexico and Tijuana City were carried out to study air quality and the transport of the secondary aerosols on local, regional, and global scales.

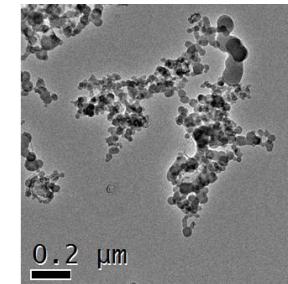


Aerosol Optical properties

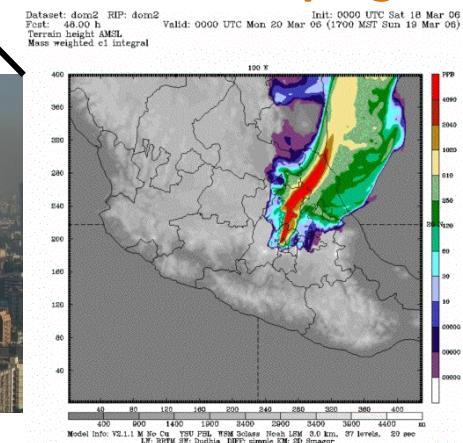


Mexico City

Soot morphology

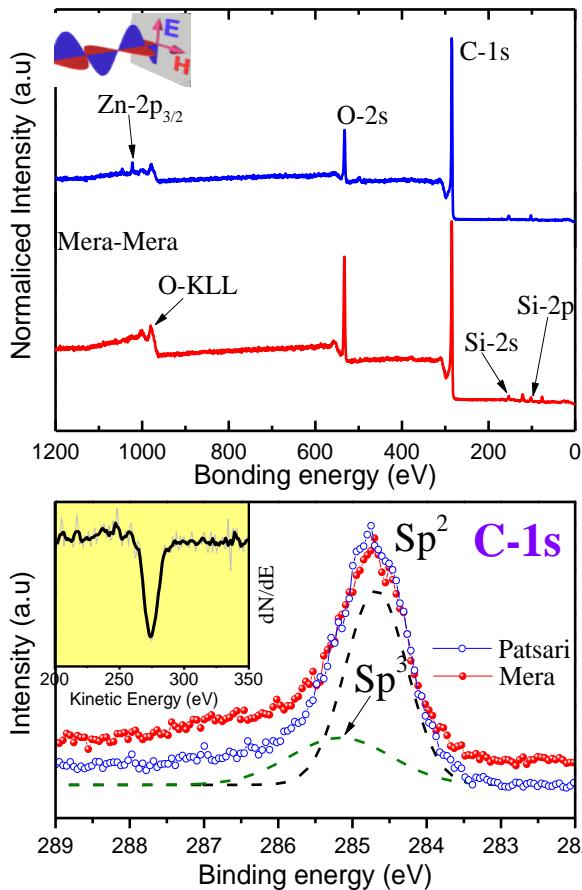


MILAGRO Campaign

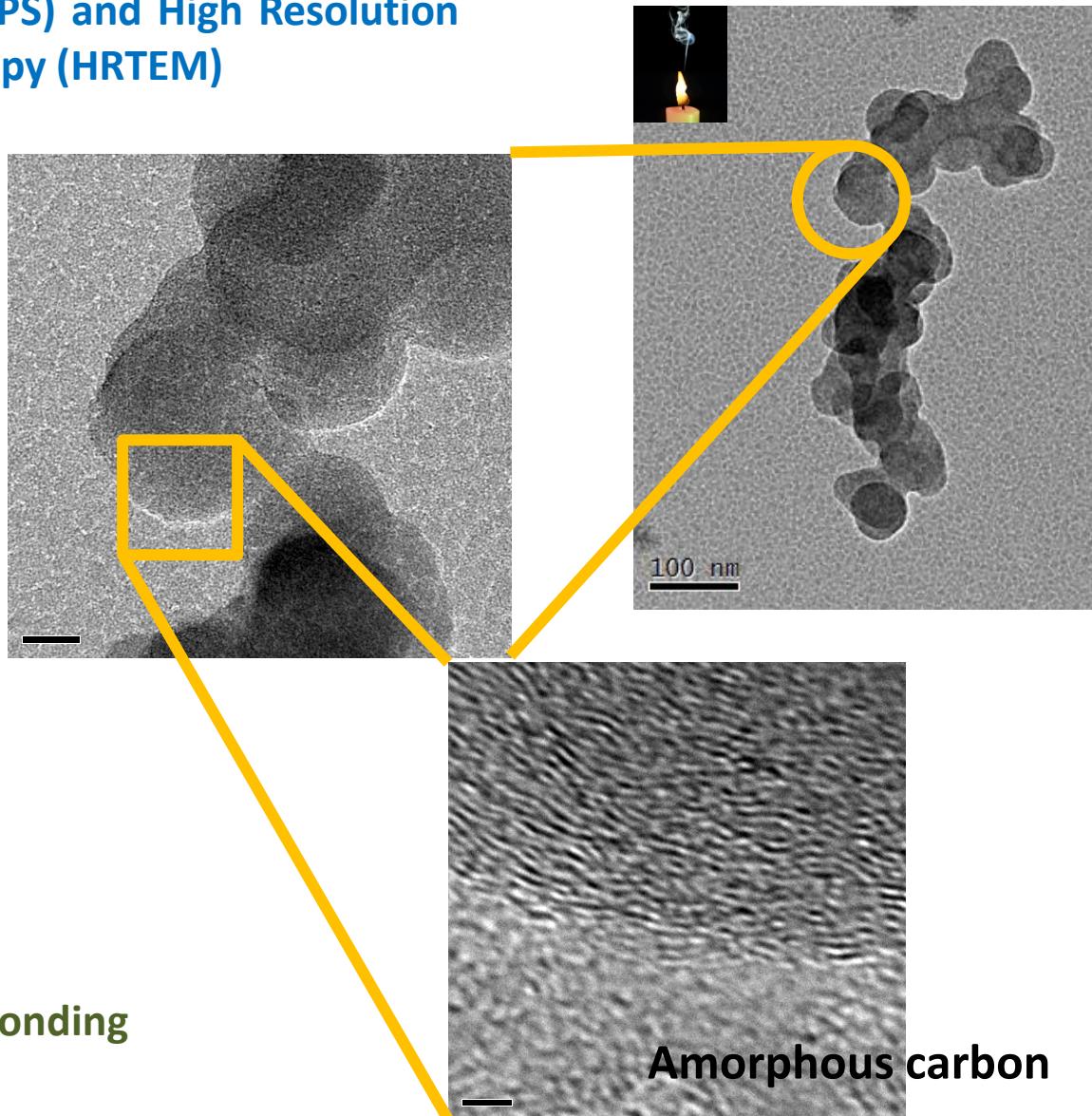


# Characterization of soot particles

X-ray photoelectron spectra (XPS) and High Resolution Transmission Electron Microscopy (HRTEM)



Carbon bonding



Amorphous carbon