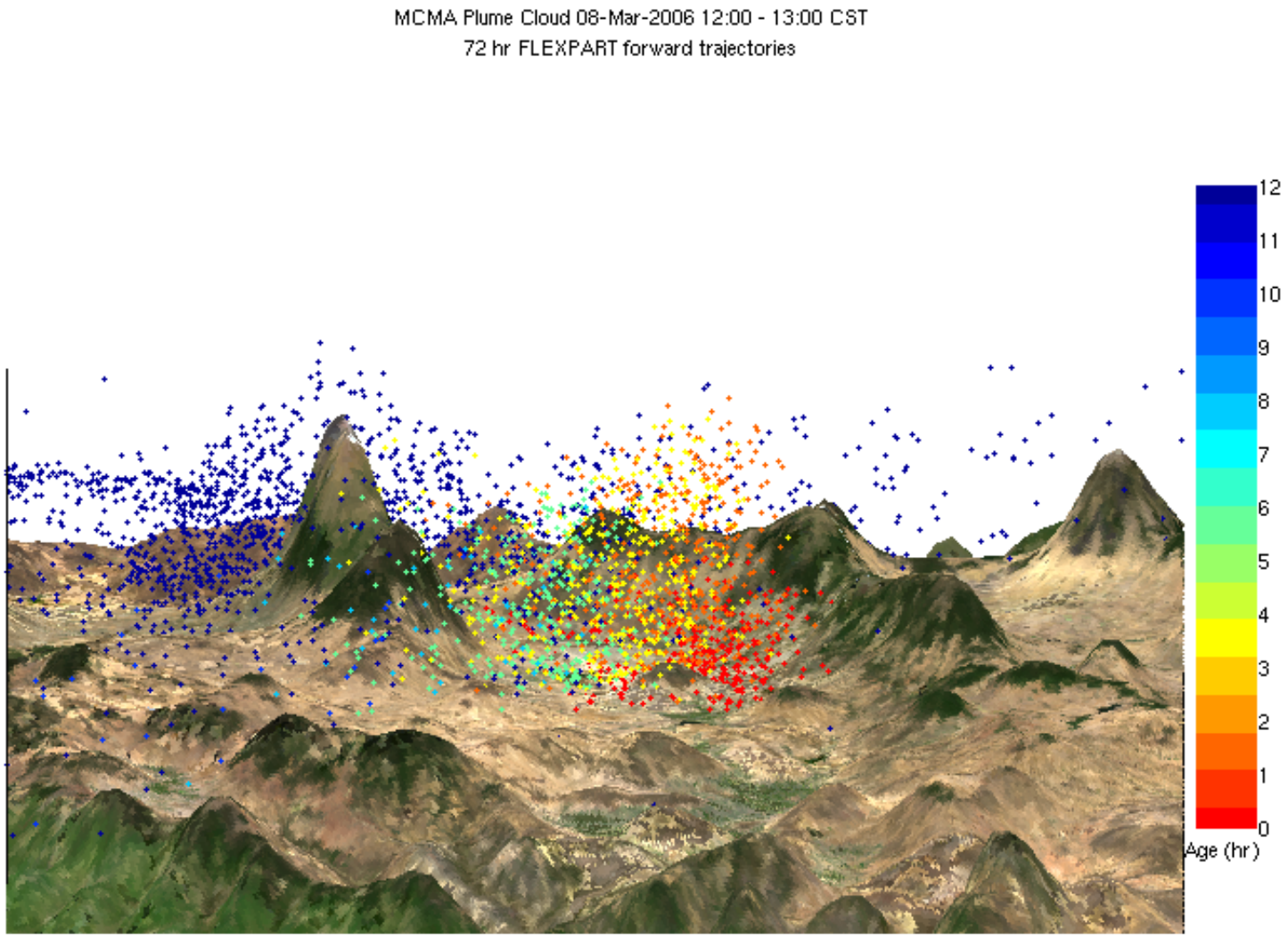
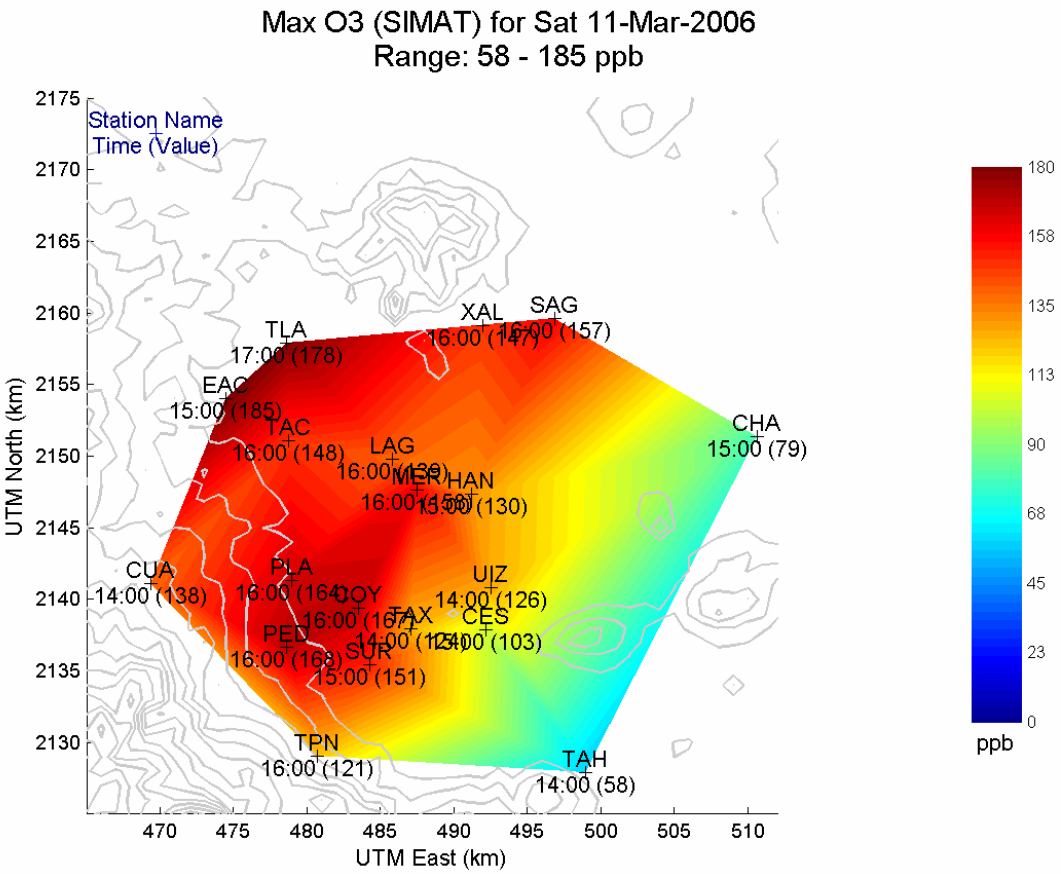
Basin-Scale Forecasting

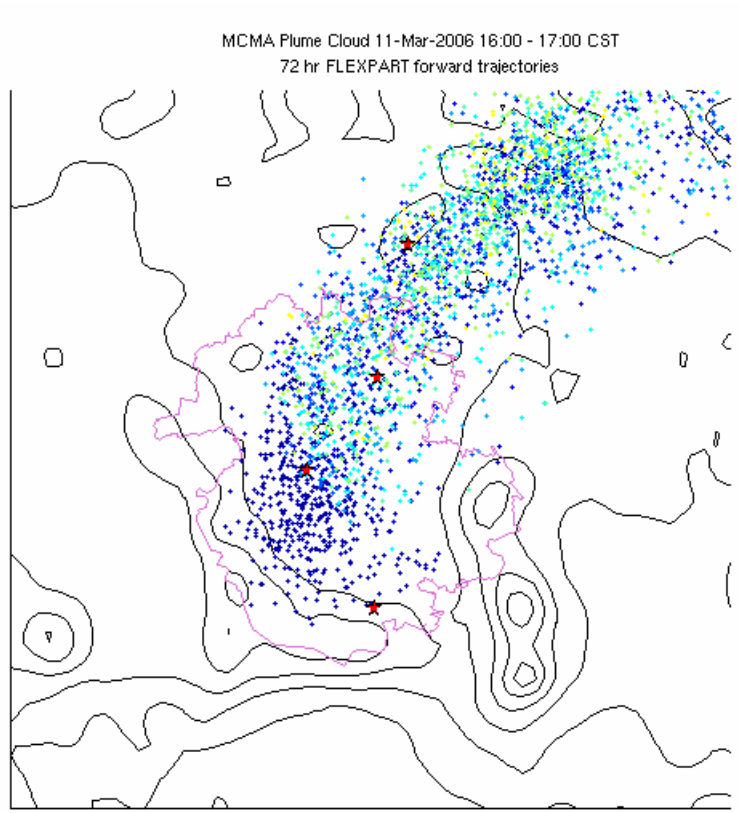
Benjamin de Foy
Molina Center for Energy and the Environment
14th March 2006
(http://mce2.org/forecast)



SIMAT Max Surface Ozone so far: Sat 11 March
http://catalog.eol.ucar.edu/milagro/



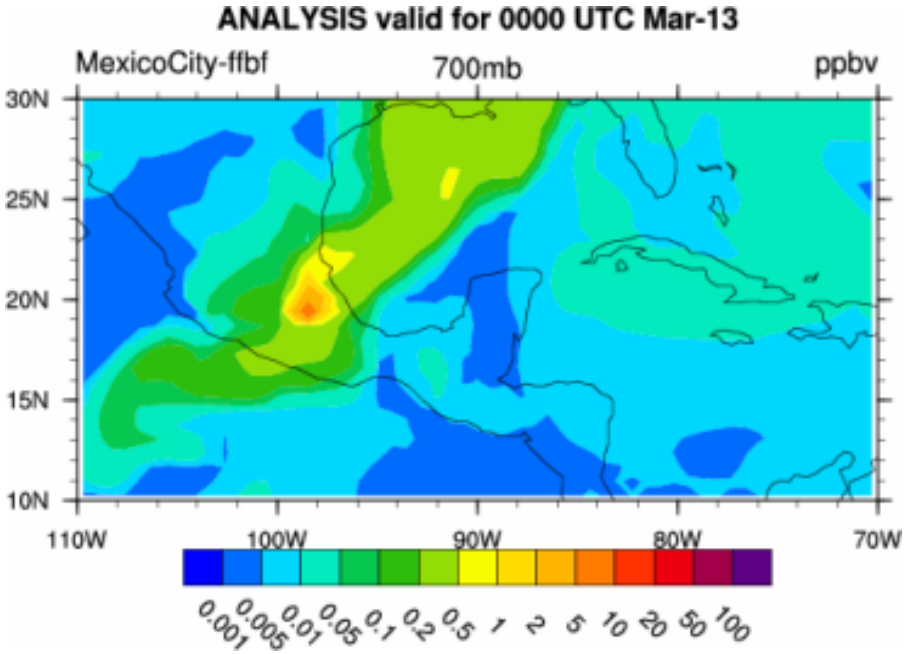
MCMA CO Tracer, 16:00 CST



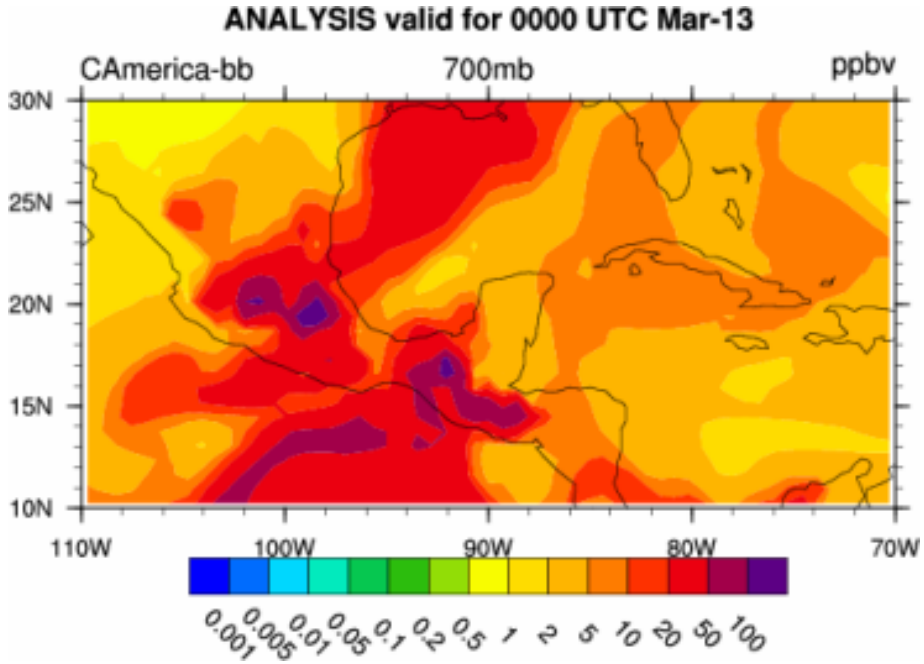
MODIS Biomass Burning
Modis Rapid Fire, Sunday 5th March

MOZART Near-Real Time MOPITT CO Assimilation

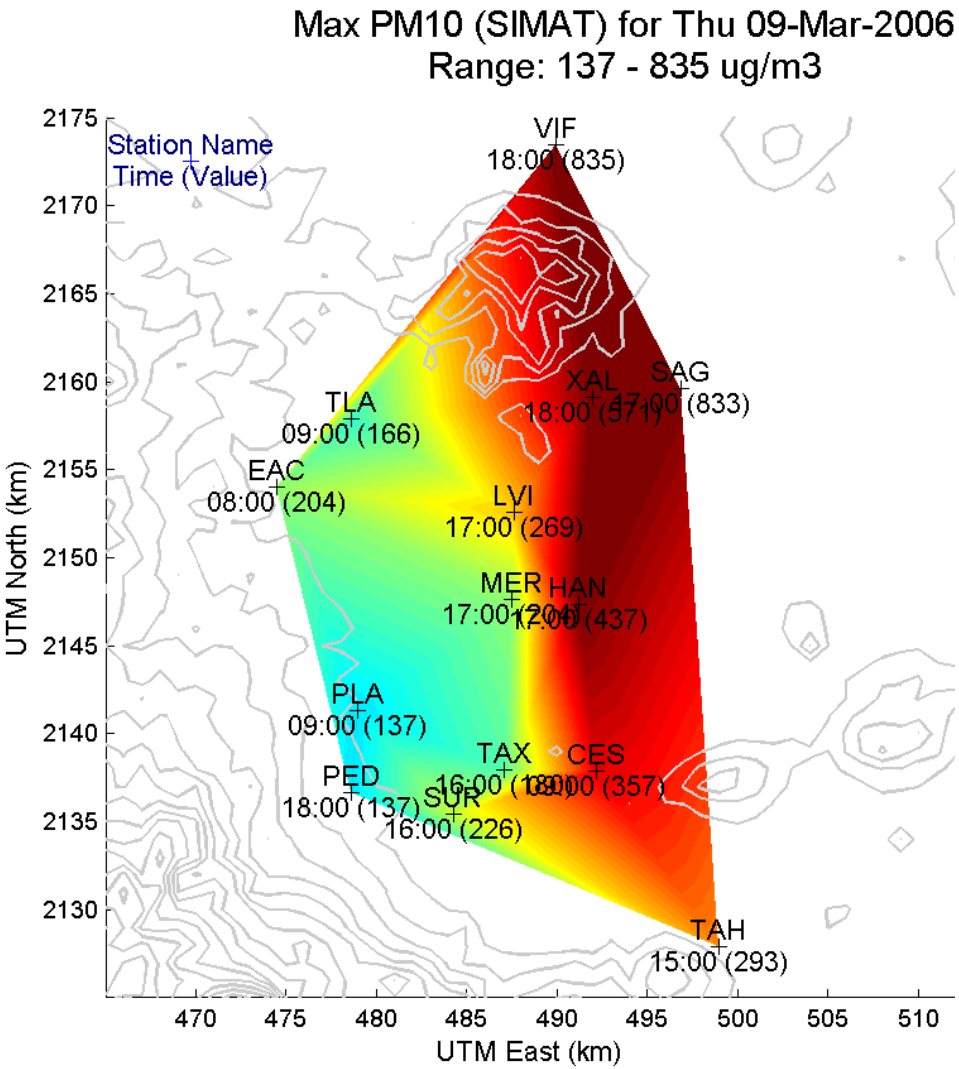
MCMA: Fossil Fuel + Biomass

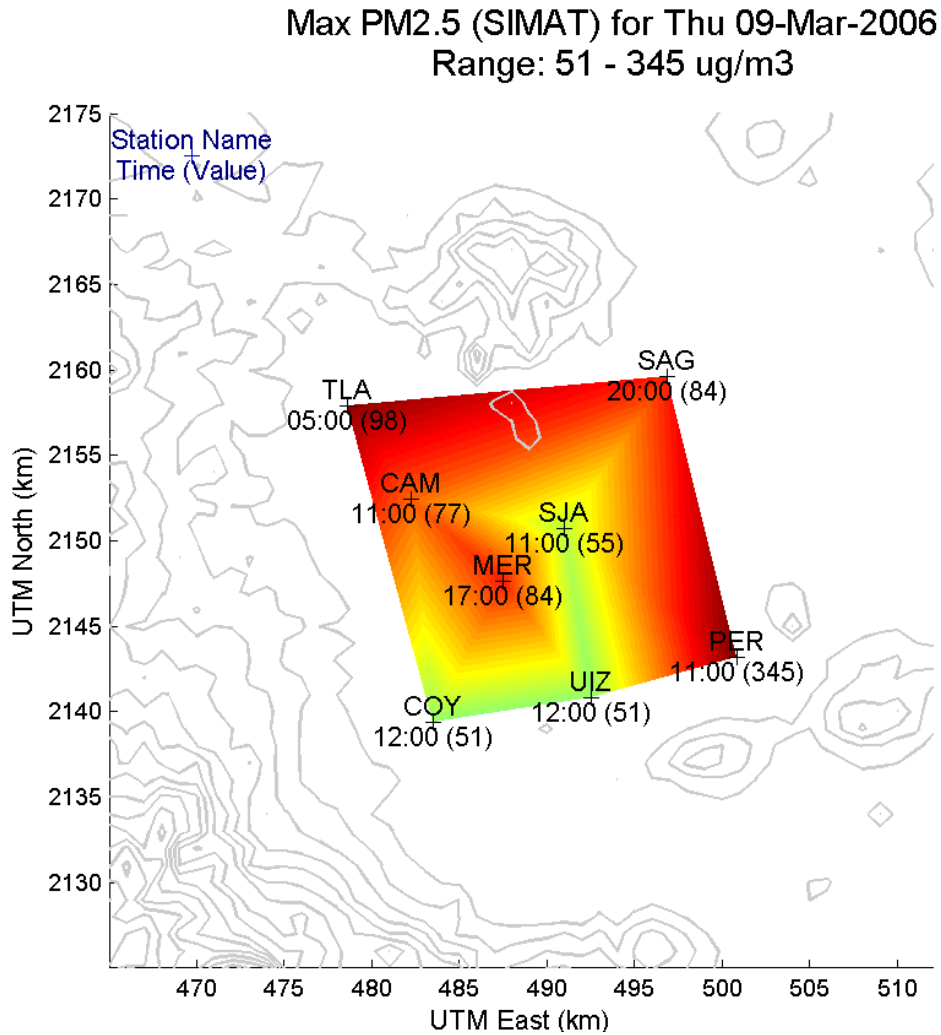


Central America Biomass Burning

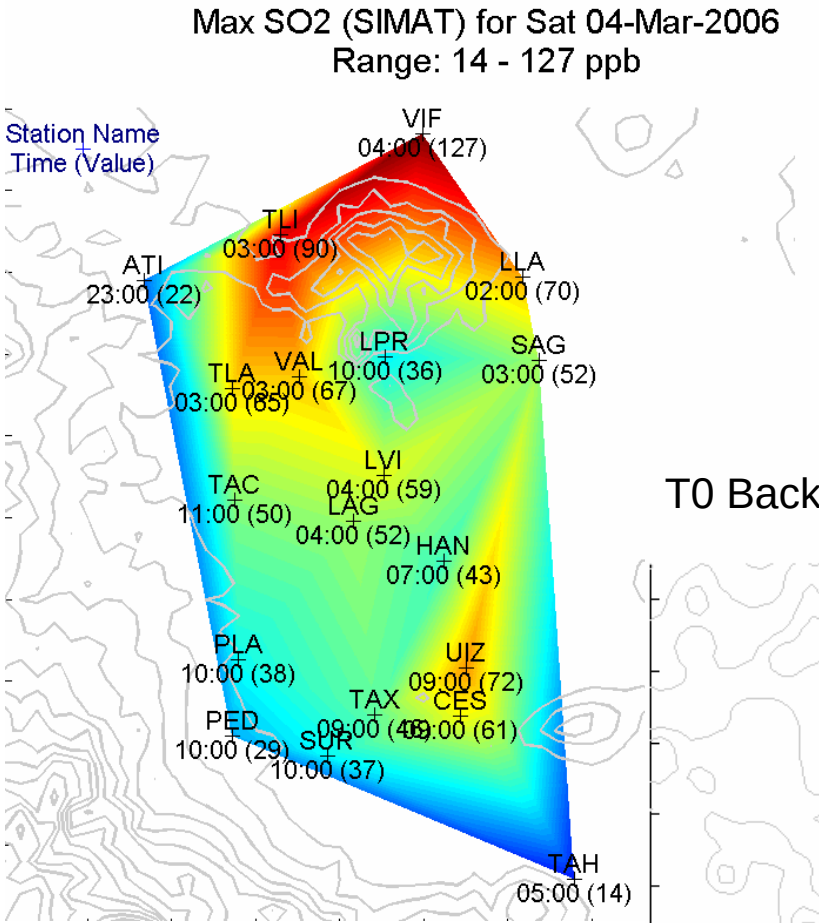


SIMAT Max Surface PM10 and PM2.5 for Thu 9 March

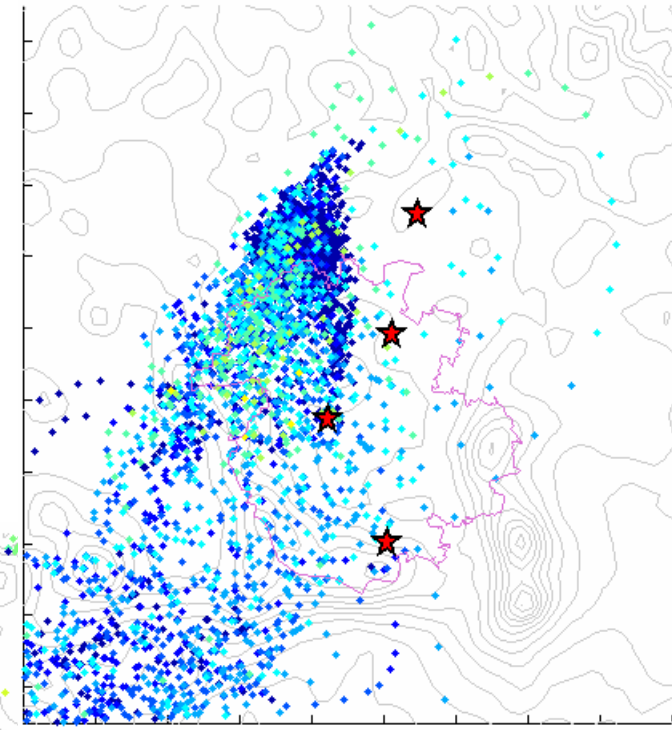




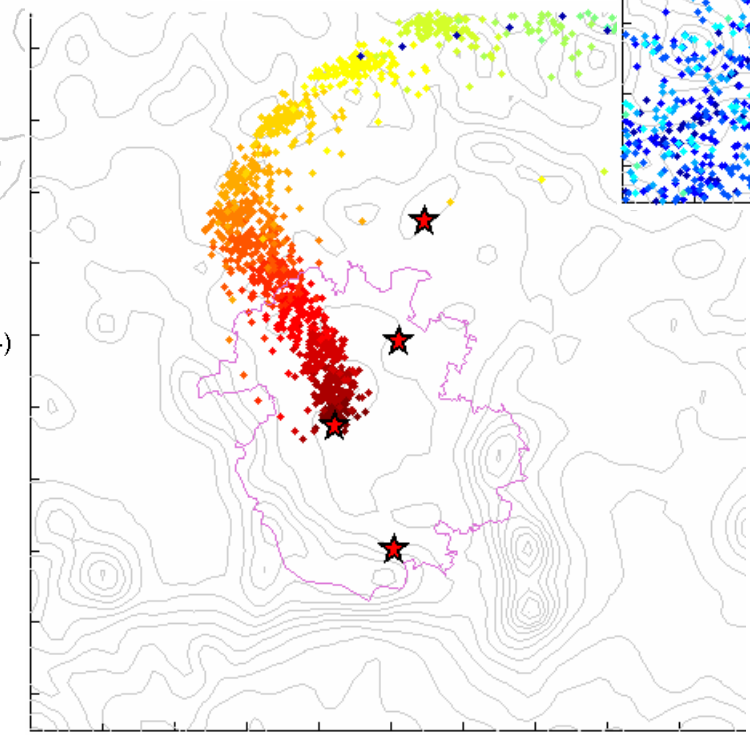
SO2 peak: Sat 4 March, 04:00 CST



Forward Tula Tracer, 00:00

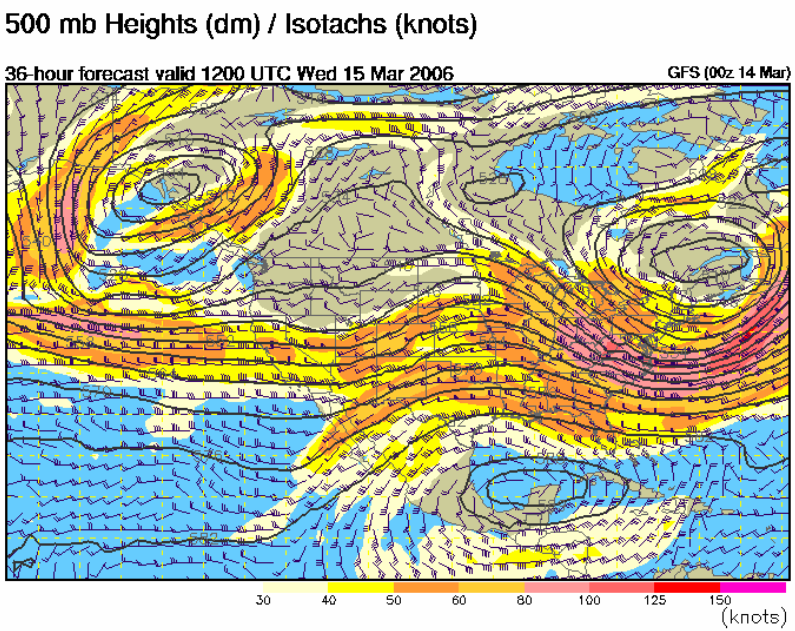


T0 Back-Trajectory, 04:00

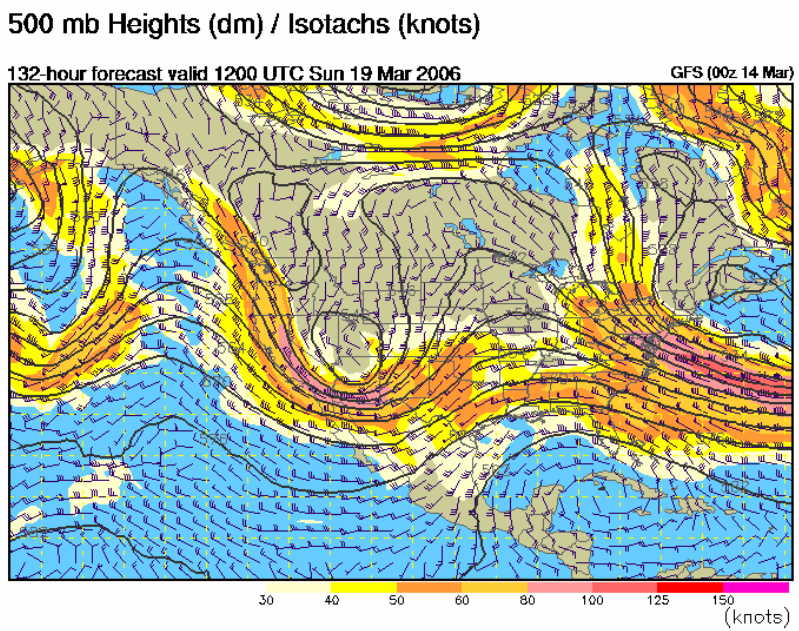


Large Scale Weather Outlook – GFS 500mb Heights

Wed 06:00 CST

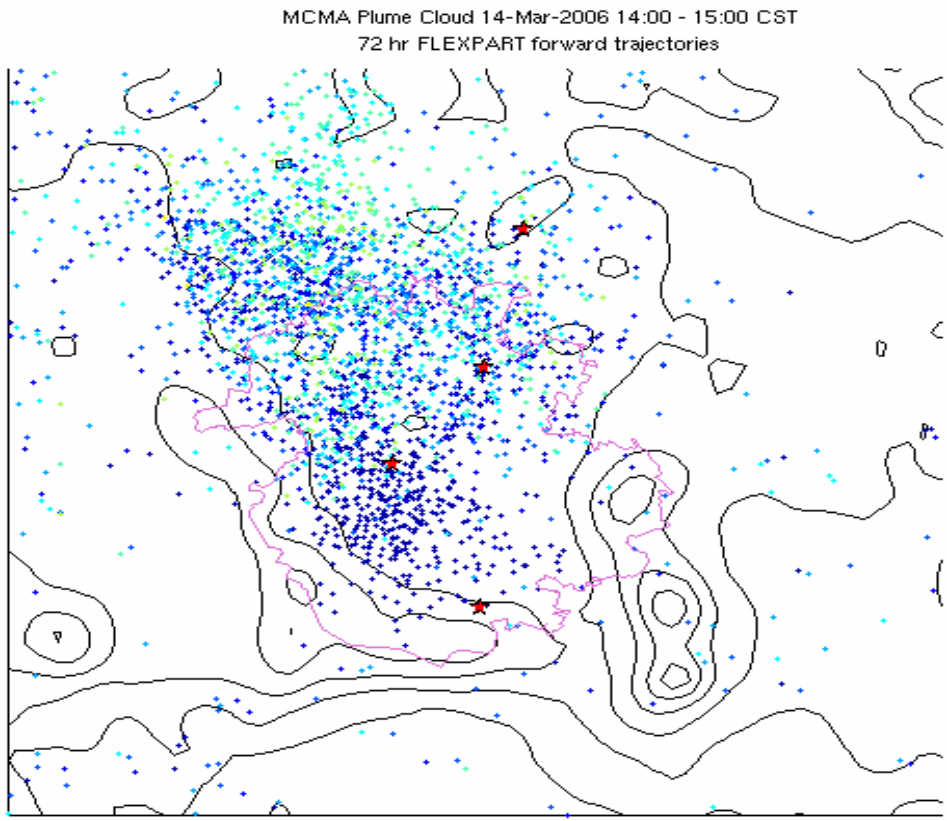


Sun 06:00 CST

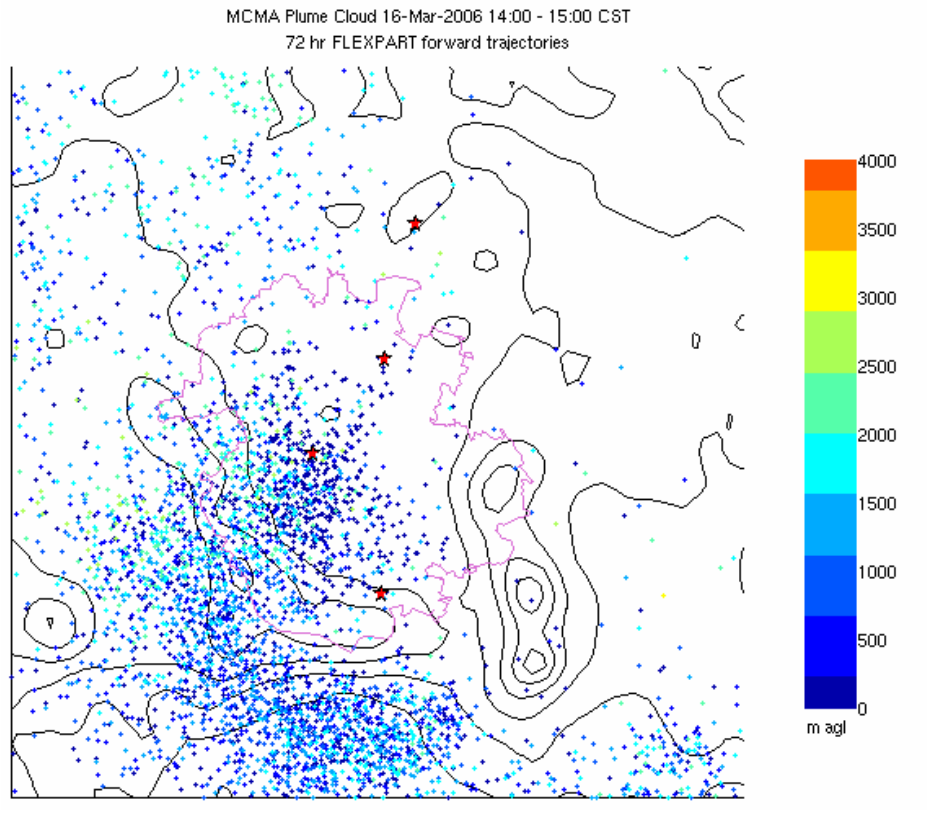


MCMA Forward Trajectories: Urban Plume based on CO Tracer
http://mce2.org/forecast

Tue 14, 14:00: Plume to NW



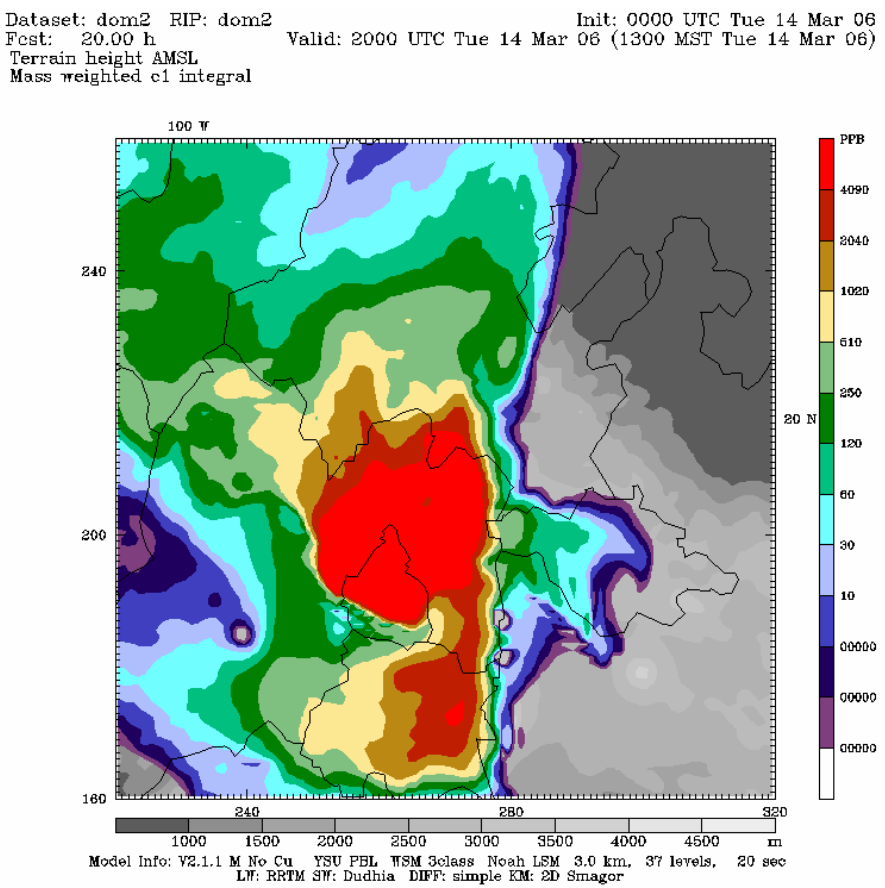
Thu 14, 14:00: Plume to SW



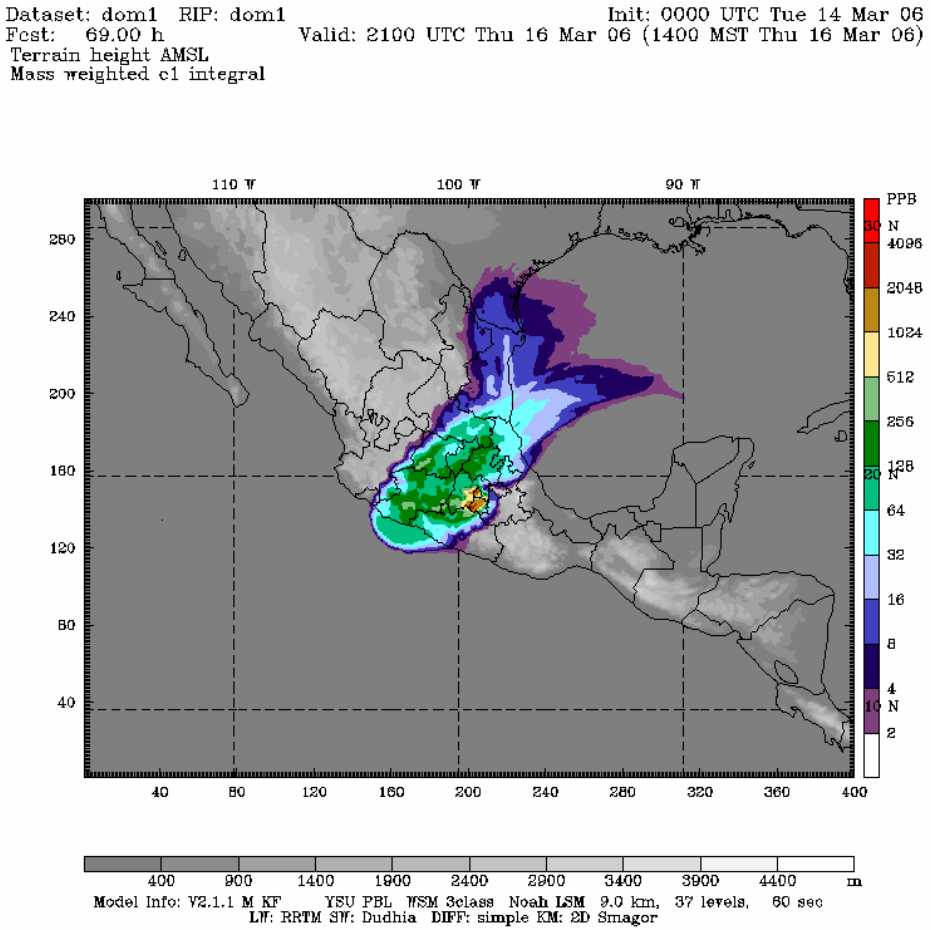
MCMA Forward Trajectories: Urban Plume based on CO Tracer

http://www.mmm.ucar.edu/projects/mirage

Tue 14, 14:00: Plume to N

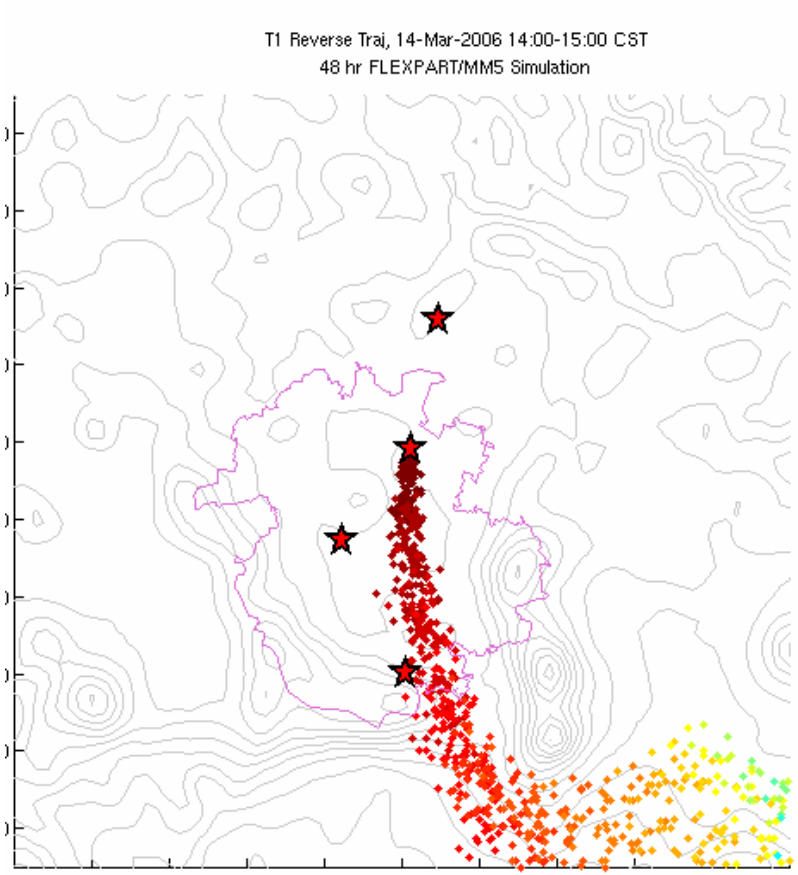


Thu 14, 14:00: Plume to SW



Back-Trajectories for Tue 14 March
Possible Lagrangian Exp Day: Urban outflow reaches T1 and T2

T1 Back-T. at 14:00-15:00



T2 Back-T. at 14:00-15:00