

a. **Figure 1** MM5 modeling domains with 36 km grid spacing (domain 1), 12 km grid spacing (domain 2) and 4 km grid spacing (domain 3)

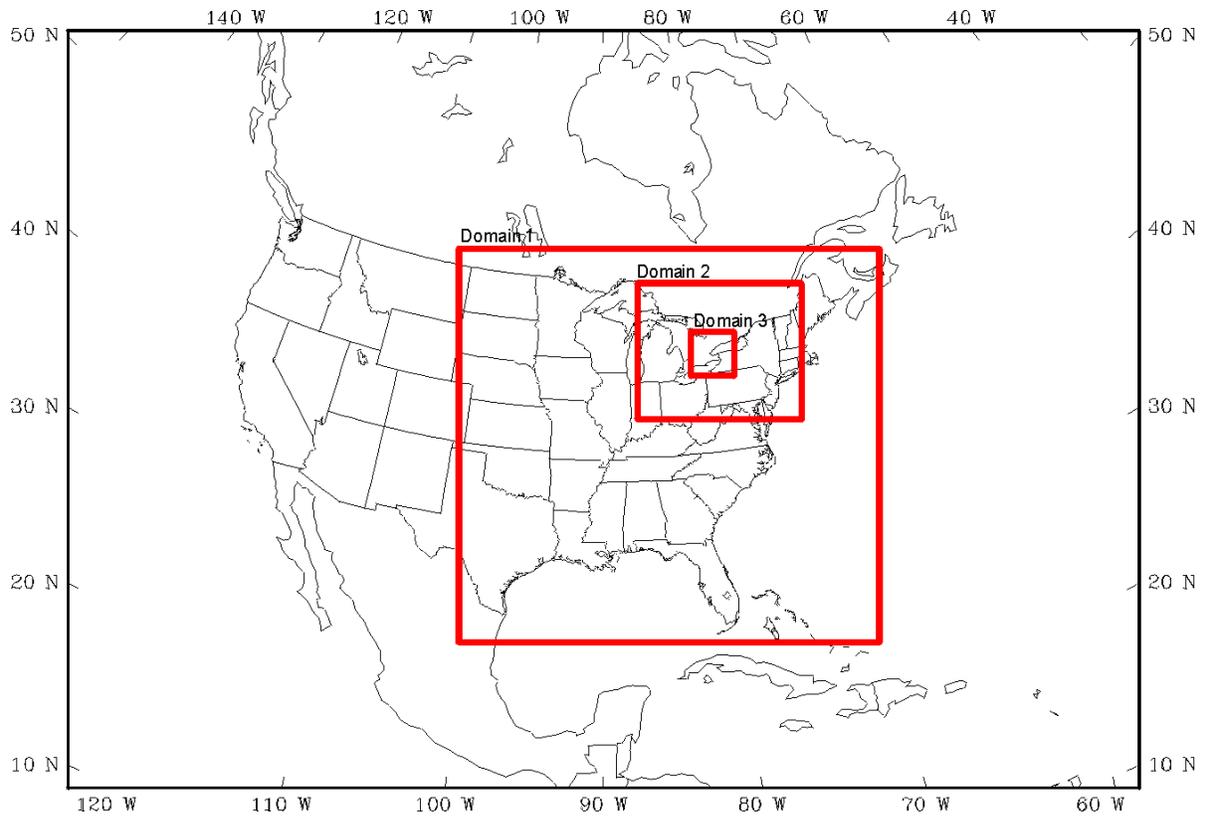


Figure 2 MM5 ground level wind and temperature fields at 12 km grid spacing on July 16, 1999, 20:00 GMT (16:00 EDT)

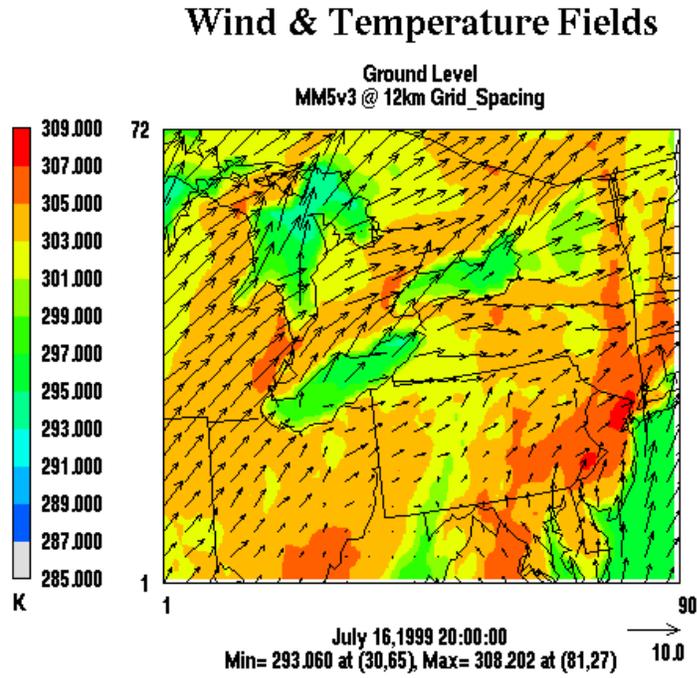


Figure 3 Gridded SMOKE emission output data (Example)

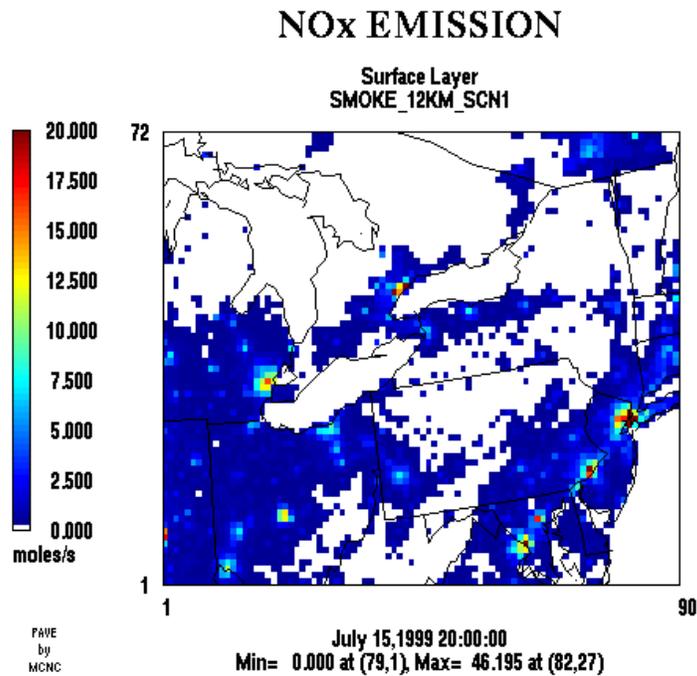
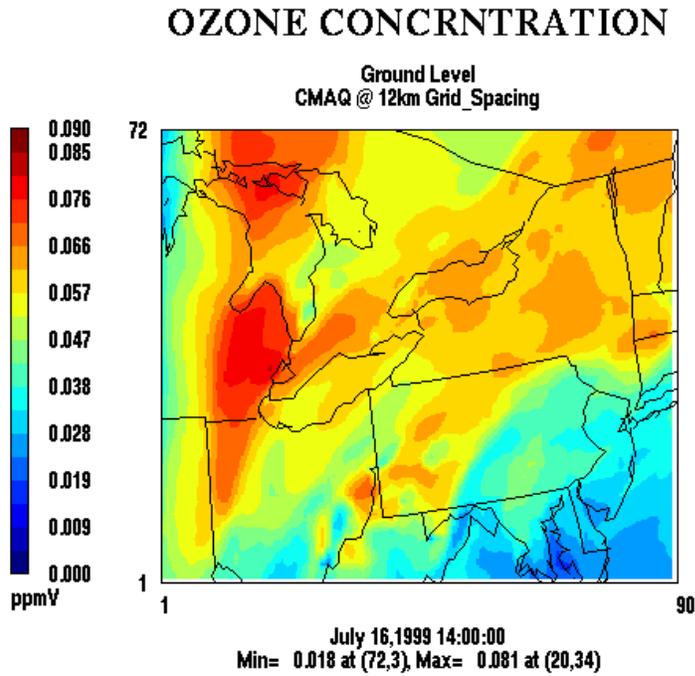


Figure 4 CMAQ modeling results for ground level O₃ at 12 km grid spacing on July 16, 1999, at (a) 14:00 GMT (10:00 EDT), and (b) 22:00 GMT (18:00 EDT)

(a)



(b)

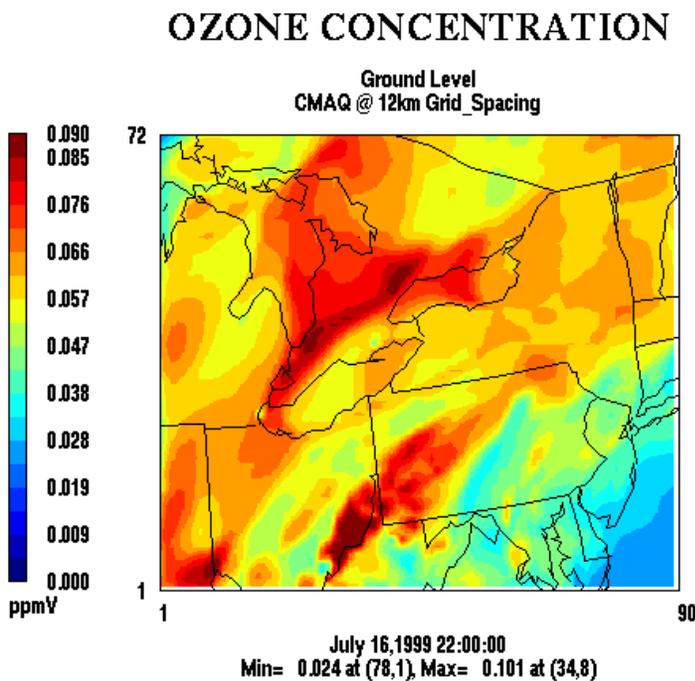
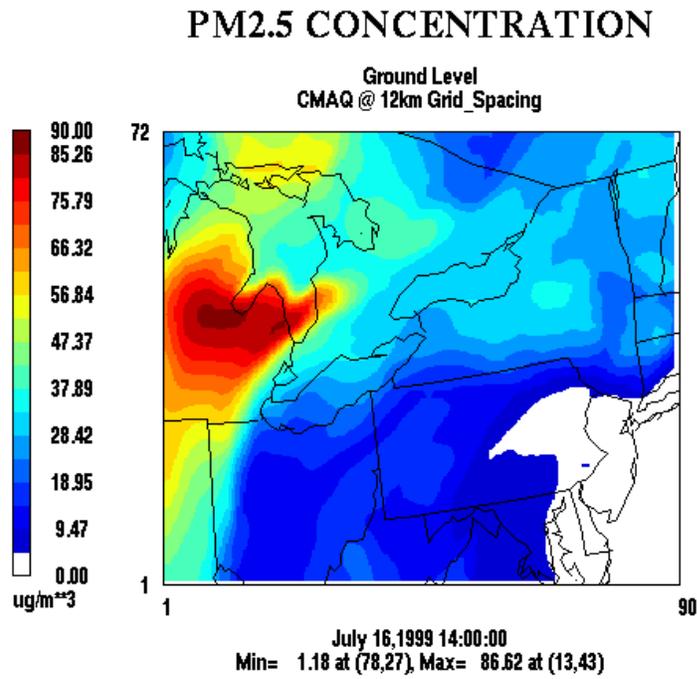


Figure 5 CMAQ modeling results for ground level PM2.5 at 12 km grid spacing on July 16, 1999, at (a) 14:00 GMT (10:00 EDT), and (b) 22:00 GMT (18:00 EDT)

(a)



(b)

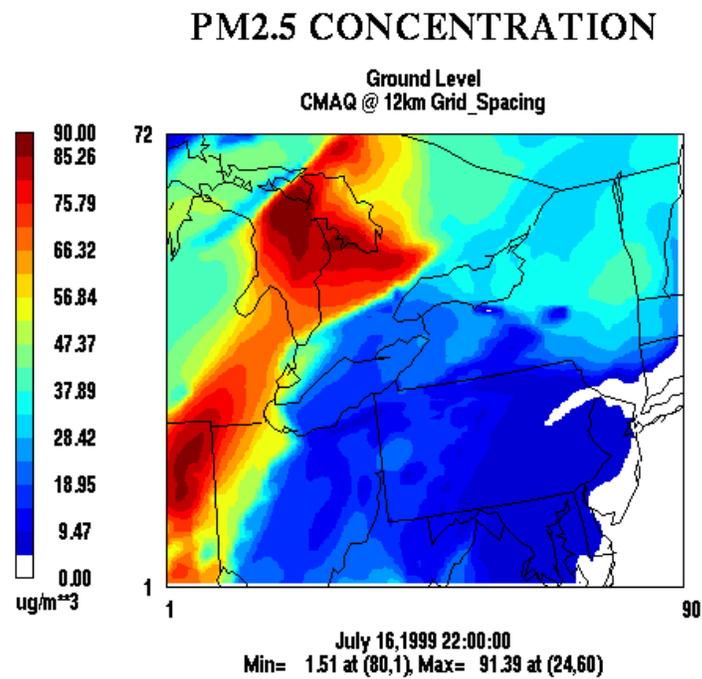
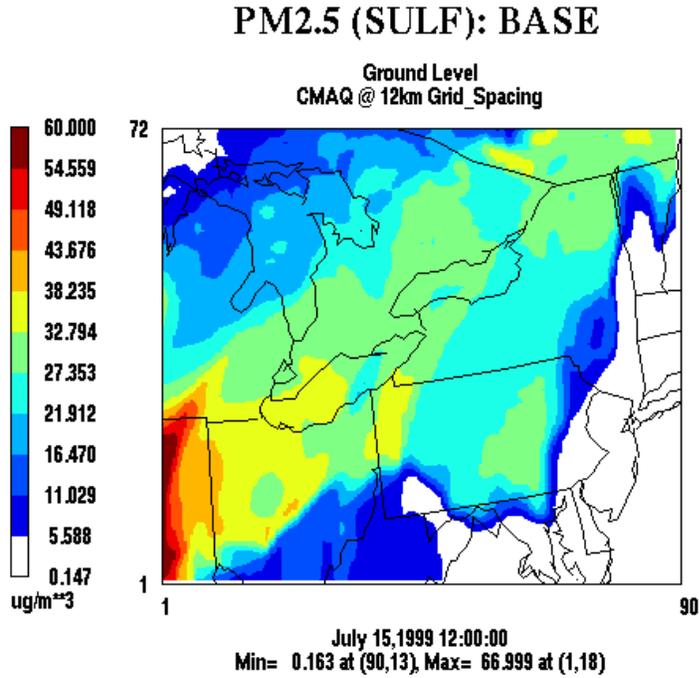


Figure 6 CMAQ results for sulphate aerosol at 12 km grid spacing on July 15, 1999, 12:00 GMT (08:00 EDT). (a) Base case, (b) scenario run

(a)



(b)

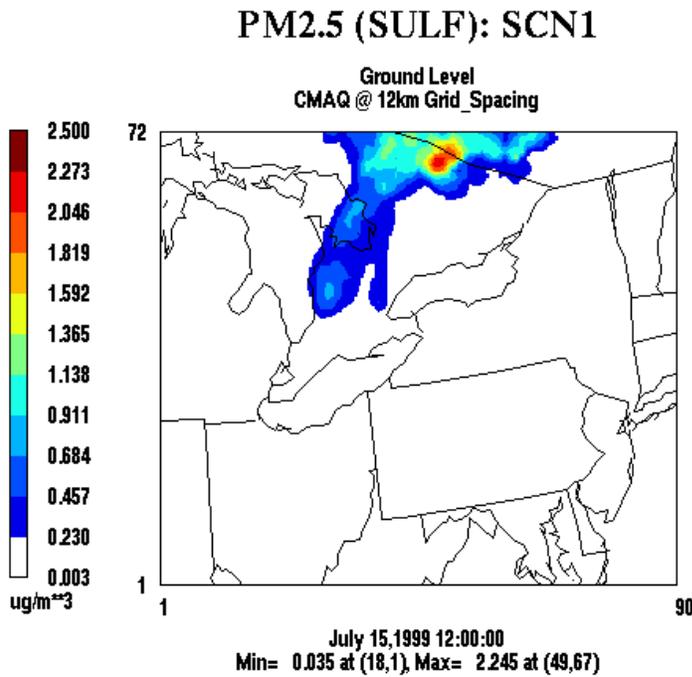


Figure 7 Change in ground level O₃ (base case minus Scenario 1) at 12 km grid spacing on July 16, 1999, 22:00 GMT (18:00 EDT)

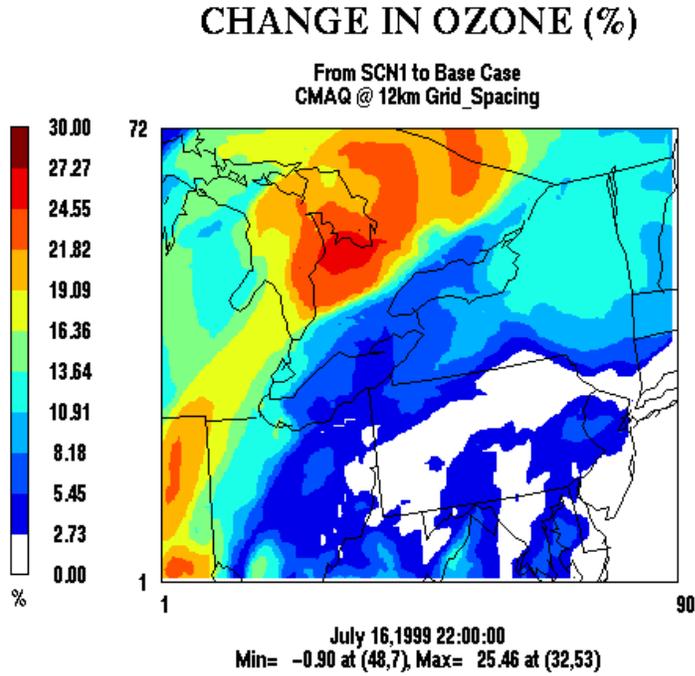


Figure 8 Change in ground-level O₃ (Scenario 2 minus base case) at 12 km grid spacing on July 16, 1999, 22:00 GMT (18:00 EDT)

