

**MODELING OF PHOTOCHEMICAL POLLUTION IN ATHENS, GREECE -
APPLICATION OF THE UAM-AERO AND CALGRID MODELING SYSTEMS**

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ABSTRACT

The severe episode of 25-26 May 1990 in Athens, Greece, is simulated using two state of the art models, UAM-AERO and CALGRID. Spatial and temporal variations of modeled concentrations of O₃, NO and NO₂ are compared with observations. Both models seem to be capable to simulate the ozone and nitrogen oxide concentrations behavior while they fail to predict the nitrogen dioxide concentrations. The similar (in general) behavior of both models indicate that either one can be used in order to study emission control strategies aiming in reducing ozone and ozone precursor concentrations.