



Long-range correlations in the atmospheric greenhouse effect and the ozone dynamics: Facts and illusions

C. Varotsos

University of Athens, Faculty of Physics, Department of Applied Physics, Athens, GR

(covar@phys.uoa.gr)

The investigation of the characteristic features of the temporal and spatial fluctuations of various atmospheric variables that are closely related to the greenhouse effect and the ozone dynamics is attempted. The data employed in this study are long time series of atmospheric observations obtained by ground-based and satellite-borne instrumentation. A special discussion is presented on the plausible causes of the occurrence of the long-range correlations exhibiting by the afore-mentioned variables.