

the increased levels of photochemical pollution, probably acting as a filter to the transfer of solar ultraviolet radiation to the surface (VAROTSOS, 1994).

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Addendum

Global Total Ozone Dynamics: Impact on Surface Solar Ultraviolet Radiation Variability and Ecosystems

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Part I: Global Ozone Dynamics and Environmental Safety
(*ESPR* 3/96, pp. 153-157)

Part II: Dynamics of Atmospheric Chemical Composition –
The Role of Remote Sensing
(*ESPR* 4/96, pp. 205-209)

In **Part I**, an overview of the ozone issue is given including the following aspects: 1. The impact of tropospheric ozone on climate as a greenhouse gas (GHG) on climate; 2. Solar activity effects on TO and ozone concentration vertical profile in both the troposphere and stratosphere (in cases of solar radiation absorption by the stratosphere, an unexpected problem arises via a coupling between processes of increased absorption due to “bursts” of solar activity and enhanced destruction of ozone molecules due to the same increase

resulting in weakening UV radiation absorption) and 3. Surface ozone concentration variations under conditions of polluted urban atmospheres, which lead to episodes of photochemical smog formation (dangerous for human health).

In **Part II**, possibilities of remote sensing techniques applications have been considered which are suitable tools to obtain more complete information on atmospheric concentrations of various trace gases determining the ozone content.