



Solar Cycle 23 in SCIAMACHY and HAMMONIA Mesospheric Data

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Several mesospheric species such as atomic hydrogen, oxygen and ozone as measured by Sciamachy and Gomos on Envisat show a pronounced dependence on the solar flux during the 23rd solar cycle. This dependence is analyzed and compared to model simulations of the HAMburg Model of the Neutral and Ionized Atmosphere. Differences are discussed with respect to dynamical and photochemical effects.