



## **Aerosol and cirrus in the tropical UTLS: first results from the backscattersonde MAS on board of the M55 Geophysica during the TROCCINOX campaign**

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The TROCCINOX campaign is to be held in Aracatuba, Brasil, jan-feb 2005 and is aimed at the study of the tropical UTLS, with emphasis on the effects of deep convective activity on the chemistry and microphysical processes of the tropical tropopause layer. The high altitude research aircraft M55 Geophysica will perform eight flights, sounding the altitude range from the top of the boundary layer to 22 km. A survey of the results that will be obtained during these flights by the backscattersonde MAS on board of the aircraft will be presented. The backscattersonde is capable of in situ measuring at two wavelengths the optical properties of clouds and aerosols. The results obtained will be compared with analogous observations acquired in previous campaigns in midlatitude and polar areas.