



Abstract Details

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Title: Surface ozone and related gases at remote sites in India measured during a land campaign.

Abstract: A land campaign was organized under the Indian Space Research Organization's Geosphere Biosphere Programme (ISRO-GBP) during February, 2004. During this campaign, measurements of trace gases and aerosols were made covering mostly central and south India by nine participating institutions from different parts of India. We made measurements of surface ozone and related gases at seven selected sites between Ahmedabad and Hyderabad both during onward and return trips. These sites were away from the main roads, industrial regions and main cities. Thus representing remote rural sites in India. Surface ozone and NO were measured using online analysers at these sites mostly during 1000 to 1600 hrs. In addition to these online measurements, we also collected air samples for analysis for other related gases (CO, CH₄, NMHCs) using gas chromatographic technique. We have observed higher ozone levels in the range of 70-80 ppbv at most of these rural sites. These levels are higher than at Ahmedabad, which is an urban site. Here average ozone levels are observed in the range of 50-60 ppbv during February month. Ozone production and levels are maximum during these noon hours but depends nonlinearly on several factors. These results will be discussed in detail during the presentation.

Presentation Mode: Oral

Keywords: Surface ozone, land campaign, rural sites, India

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