

4.1-P04. Boundary layer characteristics associated with proposed monitoring sites for regional suspected particulates in and around the Kathmandu valley, Nepal.

A science team of CTBT and Central Department of Physics, Tribhuvan University had explored several possible sites to monitor suspected particulates in and around the Kathmandu valley during the year of 2008. Based on existing knowledge of atmospheric transport processes over the valley, four sites were identified from where representative data can be generated. However, the boundary layer activities over those sites were not fully understood during the period. This paper presents the boundary layer activities over those sites as well as some other sites as observed by deploying FAS64 sodar, Scintec Co., Germany during the period of 2012 to 2014. The findings of this study are expected to help better understand the situation that could possibly prevail in and around the valley and to identify the most suitable site to monitor regional/global suspected particulate from Kathmandu.

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