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Wintertime study on bulk composition and stable carbon isotope analysis of ambient aerosols from North India

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Abstract

Ambient aerosols (PM_{2.5}; particulate matter with aerodynamic diameter $\leq 2.5 \mu\text{m}$) collected during wintertime from Kanpur (26.30 °N, 80.14 °E; in Indo-Gangetic Plain: IGP) in December 2014 were studied for their chemical composition [organic carbon (OC), elemental carbon (EC), water-soluble organic carbon (WSOC), major ions] and stable carbon isotope composition ($\delta^{13}\text{C}$) of total carbon (TC). Several source samples have also been studied herein to assess $\delta^{13}\text{C}$ value.

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