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Introduction

- □ Traffic emissions are a significant source of greenhouse gases and air pollutants in urban areas.
- Emissions of many air pollutants have been shown to have variety of negative effects on public health and the natural environment.
- □ In this study, we describe a mobile laboratory for measuring these atmospheric species.



A Mobile Laboratory for Measuring Greenhouse Gases and Gaseous Pollutants in Urban Airsheds Ning Hu¹, Xue Zhang¹, Jingzheng Xu¹, Zhen Zhang¹, Shoudong Liu¹, Xuhui Lee^{1,2}, Xiang Zhao¹







observation route showed in

Greenhouse gases and gaseous pollutants were measured on three urban road (1, 2, 3) and in

urban roads. Red symbols represents workday, blue symbols represent weekend, triangles represent traffic rush hours and

$$BER = \frac{N_n EF_{M,n} + N_g EF_{M,g}}{N_n EF_{C,n} + N_g EF_{C,g}}$$

 EF_{M_n} : CH₄ emission factor for natural gas vehicles; $EF_{M,g}$: CH₄ emission factor for gasoline vehicles; EF_{C_n} : CO₂ emission factor for natural gas vehicles; $EF_{C_{o}}$: CO₂ emission factor for gasoline vehicles;