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### **Air quality in West African cities: case of passive sampling of SO<sub>2</sub>, NO<sub>2</sub> and BTEX in the city at Ouagadougou**

As in northern cities, transport is one of the main causes of air quality degradation in southern cities, especially in West African cities. Very few studies have focused on air quality in these cities, particularly in Ouagadougou. As a result, there is a lack of scientific data to evaluate air quality. The last campaign to monitor pollutants in the city of Ouagadougou was carried out in 2007. It showed that air quality is a concern and that it is likely to deteriorate further due to the rapid growth of the population and the rapid evolution of the vehicle fleet based on the massive importation of second-hand vehicles. We present here the results of a measurement campaign using passive sampling tubes, over the period from 15 to 29 September 2015, aiming to update data on the state of air quality in the city of Ouagadougou. The pollutants concerned are: nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), and BTEX (benzene, toluene, ethylbenzene and xylenes).

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