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Outdoor Air Pollution in Kumbo Cameroun

Publisher: IEEE

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Abstract:

In this paper, the air quality of Kumbo-Cameroon was investigated. Aerosol optical depth (AOD) dataset for fourteen years was obtained from the Multi-angle Imaging Spectro-Radiometer (MISR). The raw dataset was processed and treated. The aerosol loading over the research location was obtained from the AOD datasets. It was observed that the main pollution is from anthropogenic emission and Sahara dust. The current aerosol loading over Kumbo is high and it is gradually reducing by 1.81%, though not significantly. The data presented is essential for ground measurement over the research area.

Published in: [2019 6th International Conference on Space Science and Communication \(IconSpace\)](#)

Date of Conference: 28-30 July 2019

Date Added to IEEE Xplore: 30 December 2019

ISBN Information:

ISSN Information:

INSPEC Accession Number: 19277416

DOI: [10.1109/IconSpace.2019.8905924](https://doi.org/10.1109/IconSpace.2019.8905924)

Publisher: IEEE

Conference Location: Johor Bahru, Malaysia, Malaysia

I. Introduction

Outdoor air pollution is the emission of air pollutant which could be in form of combination of particulate matter, chemicals and biological materials which react with each other to form hazardous particles. Outdoor air pollution is the presence of harmful particulates or chemical substances in the atmosphere at duration and concentrations exceeding the required limits (1). An example of such chemical substances or particulates include ozone [O₃], airborne lead [Pb], carbon monoxide [CO], sulphur oxides [SO_x] and nitrogen oxides [NO_x] (2,8) which contributes to diseases such as breathing problems, chronic diseases which may lead to premature mortality. Exposure to outdoor air pollution is one of deadly problems public health and environmentalist are yet to solve (3). WHO (4) estimated that indoor and outdoor air pollution causes over three million deaths yearly.

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Keywords

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