Contribution ID: **210** Type: **Poster Presentation**

Remote sensing of atmospheric Aerosol Optical Depth

Friday, 30 July 2021 11:30 (15 minutes)

The paper presents the data analysis of Aerosol Optical Depth (AOD) measured from a CIMEL Sun-photometer at CSIR-Defence and Security in Pretoria, South Africa. This Aeronet instrument has been recording data since 2011 till 2018 for use in the calibration and validation process of space sensors such as earth observation satellites in space. These sensors encounter challenges while capturing information about the earth surface since the presence of aerosols in the atmosphere inhibit the target image and degrade information about the area. The purpose of ground truth instruments such as the CIMEL Sunphotometer is to generate aerosol measurements specifically the AOD, and requires analysis of the data to ensure stability and quality before any calibration or validation of the Satellite sensor. The study will provide an overview of the AOD behaviour during warm and dry seasons of the 2017 data.

Apply to be considered for a student ; award (Yes / No)?

NO

Level for award;(Hons, MSc, PhD, N/A)?

N/A

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Session Classification: Space Science

Track Classification: Track D2 - Space Science