



## **Spatial variation of Aerosol Optical Depth over the oceanic regions of India from IRS P4 OCM**

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This paper presents the spatial variation of Aerosol Optical Depth (AOD) over the Indian oceanic region using three years of IRS P4 Ocean Colour Monitor (OCM) data. Daily data of IRS P4 OCM for three consecutive years 2000, 2001 and 2002 has been used to study the monthly mean changes of AOD over the Indian oceanic region. Monthly averaged Wind field data from National Centre for Environment Prediction (NCEP) has been used to understand the variation of AOD with wind field. The general trend of aerosols generation and infiltration of continental aerosols over the oceanic regions over Arabian Sea, Indian Ocean and Bay of Bengal have been separately studied. In general it has been found that there is a heavy influx of continental aerosols over the oceanic region under the influence of winds. This work has also been compared with the works of previous investigators during INDOEX (Indian Ocean Experiment) Experiments. The mean values of AOD variations over the different regions obtained from this study and that of INDOEX have been found comparable to each other. Also local aerosol patterns over the ocean are found to be matching with the wind field variations. This study presents a monthly climatology of aerosols using three years of IRS P4 OCM data at a resolution of 360 meters.