

**Physical Research Laboratory
Ahmedabad**

Space & Atmospheric Sciences Division

Division Seminar

Title: "Quantification of contribution of biomass burning to the observed black carbon concentrations using FLEXPART"

Speaker: K. Renuka

Date: 03 December 2018

Venue: Ground Floor Lecture Hall

Time: 16:00 hrs

Highlight of the talk:

Black carbon is an atmospheric pollutant that comes from incomplete combustion of fossil and biomass fuels. It affects human health by causing cancer, respiratory diseases and cardiovascular dysfunctions. It also affects the earth's climate by interacting with radiation either directly or indirectly. There exist large uncertainties in estimates of radiative forcing of BC due to uncertainty in emission fluxes and variations in optical properties for BC emitted from biomass burning. Using an emission inventory based on MODIS fire counts and a Lagrangian particle dispersion model we have quantified the contribution of biomass burning emissions to the observed BC concentrations at Ahmedabad. The results will be discussed in the seminar.

All interested are welcome.