BACKWARD TRAJECTORY using HYSPLIT everyday initialisation at 12 UTC, multiple starting altitudes from 0.5 up to 10 km AGL CUMULATIVE TRAJECTORY LENGTH CALCULATION using Haversine formula DISPERSION AREA ASSIGNMENT at each point along the trajectories with dispersion radius equals to 5 %, 10 %, 15 %, and 20 % of the cumulative trajectory length at that point IDENTIFICATION OF FIRE OUTBREAKS within dispersion area using FLAMBE data CALCULATING MEAN FIRE EMISSION for each BB aerosol source area using FLAMBE data CAMS method PBL method NO THRESHOLD Multiply mean fire emission by Count mean fire emission if method the probability that smokealtitude of the trajectory plume (CAMS GFAS data) will be Count each mean fire points is below PBL height elevated at the height of the emission (PBL height from HYSPLIT) trajectory point AGGREGATION OF DAILY EMISSIONS Sum up mean fire emissions to get daily fire emission BB AOD-WEIGHTED CONTRIBUTION ANALYSIS For each region, compute its contribution to BB AOD as the weighted mean of the mean daily fire emissions, using the same-day BB AOD (NAAPS) as the weight.