CALIPSO level 2 data

apply quality flags

apply CCN parameterizations for different aerosol types and super-saturation

apply INP parameterizations for different aerosol types

Backscatter coefficient, depolarization ratio, lidar ratio

Dust mixtures

Extinction coefficient, aerosol type, RH

select aerosol microphysics

aerosol type

PNSD & RI

MOPSMAP

Hygroscopicity correction

RH corrected PNSD & RI

scale to measured extinction coefficient

Scaled PNSD per aerosol type, RH

calculate number of particles above certain size

aerosol-type specific \( n_{\text{CCN}} \)

aerosol-type specific \( n_{\text{INP}} \)