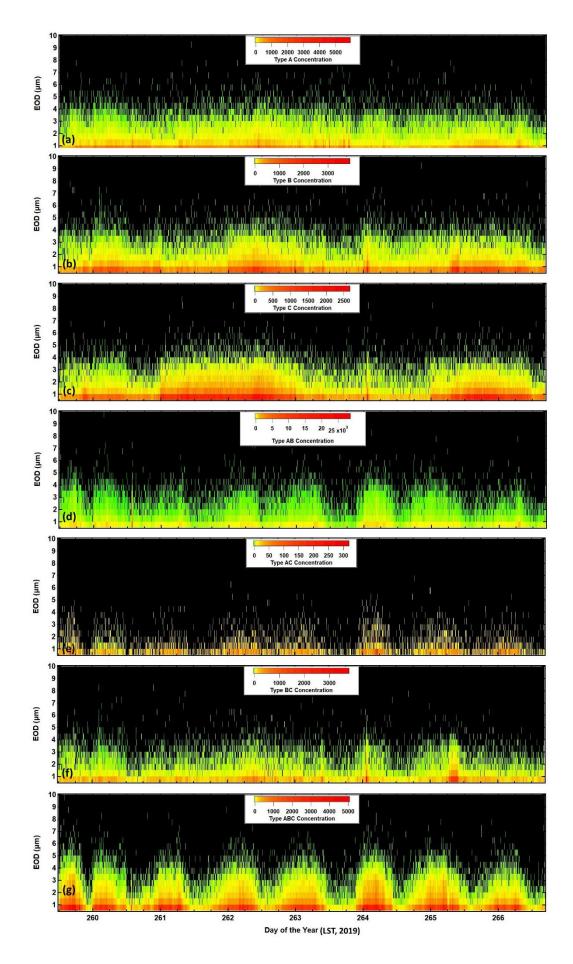
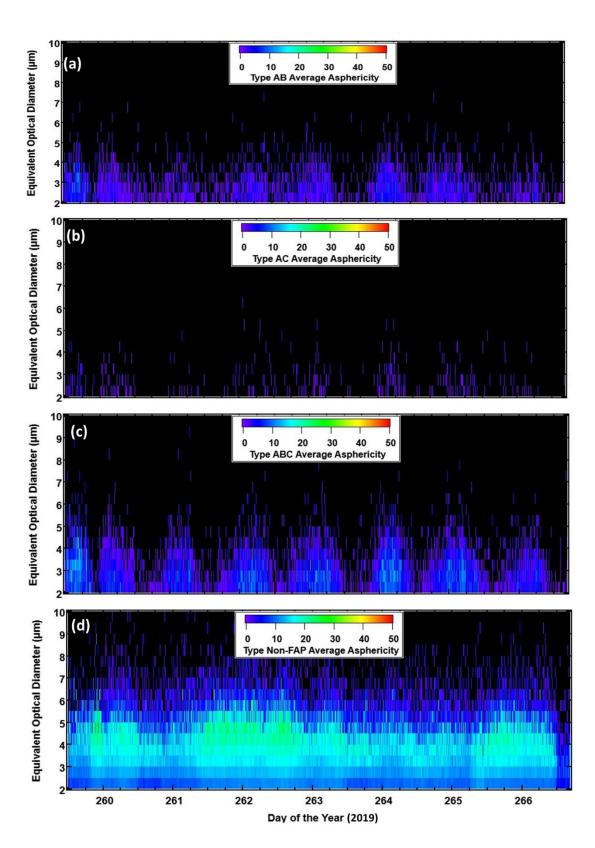


Fig. S1. Sampling efficiency curves plotted for each of the sensors (e.g., WIBS, CCN counter and CPC)
attached to the sampling line.



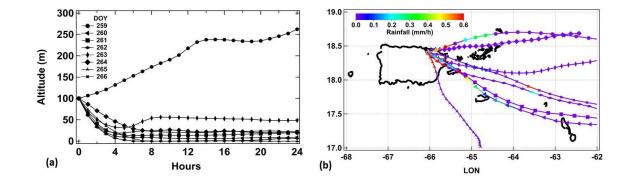


- 9 Fig. S2. These time series show the particle size distributions of all seven types (i.e., (a)A, (b)B, (c)C, (d)AB,
- (e)AC, (f)BC, and (g)ABC) of FAP during the study period. Note that the color scales are logarithmic and
 cover different concentration ranges for each FAP type.
- 12



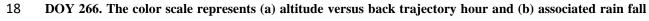
14 Fig. S3. These time series over the seven days of the project show the asphericity size distributions of FAP

15 types (a) AB, (b) AC, (c) ABC, and (d) non-FAP of fluorescent particles during the entire study period.



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17 Fig. S4. HYSPLIT air mass back trajectories drawn for each measurement day starting from DOY 259 to



19 along the path of trajectories.

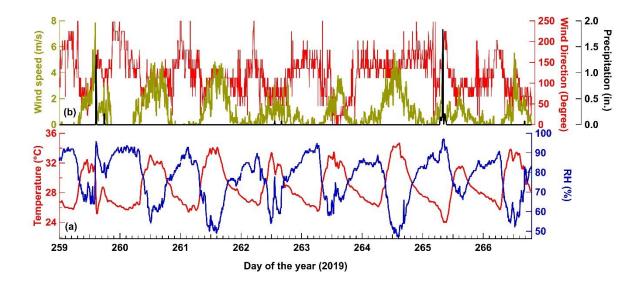


Fig. S5. Time series of (a) Temperature (°C) and relative humidity (%) and (b) wind speed (m/s), wind direction (Degree) and precipitation (inches).

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