Characterization of Pollen Particles Using LIDAR

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Characterization of Pollen Particles Using LIDAR

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We have observed pollen in the local troposphere using the depolarization capabilities of a LIDAR (Light Detection and Ranging) system. The polarization characteristics of the received LIDAR signal, along with supplemental pollen forecast data, allowed me to characterize the shape of the pollen particles. Supported by NSF.

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**Data Processing**

- All data is processed using Matlab
- Range Corrected Backscatter plot shows the relative amount of light returned to the system
- Depolarization Ratio plot shows the ratio of “Cross-polarization” to “Co-polarization”

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**Pollen**

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