Sept 22

→ meeting with Dr. Sica regarding thesis supervisor, and project.

→ Thesis in the atmospheric sciences related to climate change and its applications

→ Talked about current projects going on regarding the Lidar in London as well as newer equip coming in.

→ instructed to read text "Atmospheric Science" by Wallace and Hobbs

  → Chap 4 = Radiative Transfer

  created notes in ONENOTE over next week
recieved code to view ceilometer data as well
+ looked over that

Oct 1

→ Meeting with Dr. Sica to discuss contents of abstract

→ refining + narrowing down of research question to pollutants during the time of the Covid lockdown.

  will be using lidar data to determine ~~whether 2th~~ to what extent the decrease of air pollutants was during the lockdown due to decrease in transportation + manufacturing

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<u>BUT</u> Atmospheric data has lot of variables so finding method to compare pre and post lockdown will be a task in itself.

⤷ need to determine baseline by comparing with data from 2017 → present might need to process data to be sufficient for analysis

<u>Looking</u> @ wildfire smoke → clearly delineable anomaly + compare with normal conditions

<u>First</u> look at ceilometer data using code given to look for the wildfire smoke see if you can define the smoke from normal conditions

✳ Abstract written + sent

Current Title: Quantifying the release of Pollutants using Lidar measurements during the COVID-19 Spring Lockdown

Oct 3

→ Gained acces to Pelnas server which contains ceilometer data from 2017-2020

↓

looking @ ceilometer data in Sept 2020 to detect the California wildfire smoke visually using code given finest

↳ researching papers on Lidar data processing and interpreting