Anemometer Project - Complete Documentation

Step 1: Locate Anemometer Project Folder

- Anemometer Drive Folder
    - https://drive.google.com/drive/u/0/folders/1fxtNNHfmy5UiM8vGFW-dBHcEiEP1eDlY

Step 2: Find Data Sources

- WXT and Sonic Wind Data
    - https://drive.google.com/drive/u/0/folders/1OZAdSNOlA_bq5sX9kQDKf-lvjP7DH6jv
- Radiosonde Data
    - https://drive.google.com/drive/u/0/folders/1zjA5E668jB7q5lXRBnw5fVEAlnUiBlAn
    - How to Use Radiosonde Data, Explanation of Radionsode Files, and formatting can all be accessed here.
        - General Documentation
            - https://docs.google.com/document/d/1rH-1x4JA5ozk7EU8SqXtNVU-a294S8kErc4OzkjtgEI/edit
        - Radiosonde Data Formatting Guide (If you want to check how each data file is char-separated)
            - If you want to see hand drawn examples of how to decode the Radiosonde Files, look here.
                - https://drive.google.com/drive/u/0/folders/1CsYVb0hP4WDI8V7Hs7sx79_ZpuOb03Uu
            - Official Guide is here.
                - https://rda.ucar.edu/datasets/ds370.1/docs/uadb-format-ascii.pdf
        - Radiosonde Algorithms (How-To Compute)/Formulas
            - Click on **Forecast technique.pdf**

        - https://drive.google.com/drive/u/0/folders/1yPUReSkLnNDcyARewoGZOy9gV3Y_qUld
    - Currently working on gathering more Radiosonde Data. Here is a link to current resources as well as future resources for incoming Radiosonde Data.
        - https://docs.google.com/document/d/18BwXS2rvHnLRTLJk-XQVJbBk11Gi76Wtlx377InC8nA/edit

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Step 3: Main Code - Scripts and Processing (in Python)

- WXT/Sonic Processing w/ Wind Roses and Graphs (Final Edition)
    - https://github.com/MuntahaPasha/ATOC-4900-Anemometer-Project/blob/main/Jupyter%20Notebooks/FinalWindData.ipynb
    - If you want to see any extra scripts, or all pre-processing work, be sure to check out this folder.
        - https://github.com/MuntahaPasha/ATOC-4900-Anemometer-Project/tree/main/Jupyter%20Notebooks
- Radiosonde Processing
    - TO BE ADDED

Step 4: Resources for Help

- Christine Shields
    - Contact Information
        - Email: shields@ucar.edu
- NCAR/UCAR Zulip Group for Python
    - Anderson Banihirwe has been a particularly helpful resource on Zulip.
- Questions about any WXT/Sonic/Radiosonde Scripts? Feel free to leave an email here. I will do my best to get back to you!

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