Training Day 15 Daily Dairy

July 1, 2024

- showed the lst values calculated on map using different layers for each month
- showed deviation on maps using different visualization parameters
- calculated time series charts for each tehsil comparing lst of analysis years with 20 years mean

Tasks Accomplished:

1. Mapping LST Values:

- Created maps displaying LST values for each month (January to December) using different layers for clarity.
- Utilized colour gradients or classification schemes to visually represent LST variations across Ludhiana tehsils.

2. Mapping Deviations:

- Generated maps illustrating deviations of LST values from the 20-year mean for each month.
- Used distinct visualization parameters such as color scales or diverging color schemes to highlight positive and negative deviations.

3. Time Series Charts for Tehsils:

- Calculated time series charts for each tehsil in Ludhiana district, comparing LST of the analysis years (2022-2024) with the 20-year mean.
- Visualized these comparisons to identify trends and anomalies in temperature variations over time.

Key Learnings:

- Mapping LST values and deviations provides spatial insights into temperature variations across Ludhiana tehsils.
- Visualizing data using maps enhances understanding of geographical patterns and localized climatic changes.
- Time series analysis helps in identifying long-term trends and assessing the impact of recent years' climate on local environments.

Challenges Faced:

- Ensuring accuracy and consistency in mapping LST values and deviations across different months and tehsils.

- Managing and interpreting complex spatial and temporal data to derive meaningful conclusions.