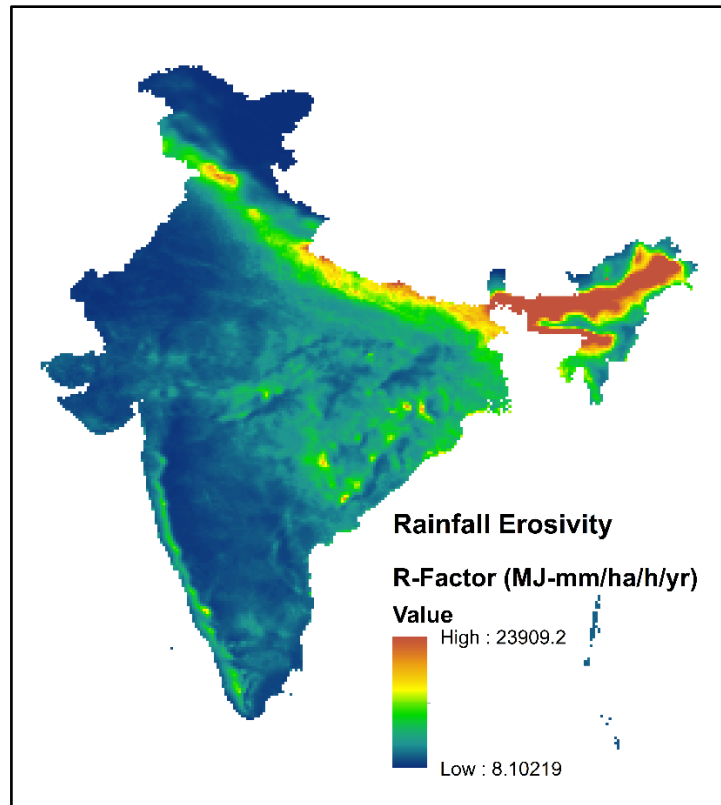


Indian Rainfall Erosivity Dataset

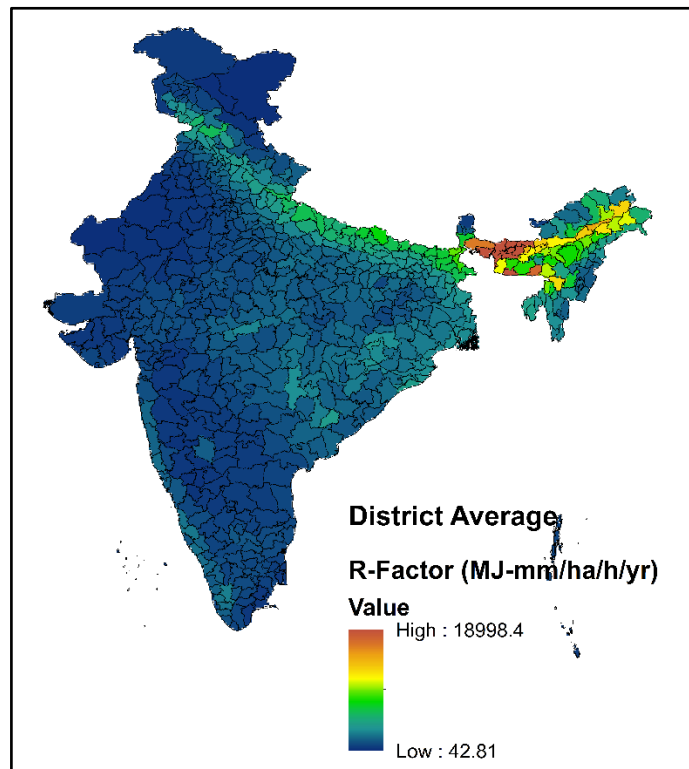
IREDD (Indian Rainfall Erosivity Dataset): The data repository for Rainfall Erosivity Data for India.

- This dataset consists of **raster layers** of Rainfall Erosivity (R-factor), and Erosivity Indices (Fournier Index and Modified Fournier Index), and District-average R-factor datasets in **tiff format**.
- These datasets are annual average (**single files** each) of rainfall erosivity factor and indices.
- **R-factor_India.tif** - Long term yearly average R-factor (MJ-mm/Ha/h/yr) map for India in **tiff format having 0.12-degree resolution**. R-factor was estimated using hourly IMDAA (The Indian Monsoon Data Assimilation and Analysis) precipitation dataset for 40 years (1979-2018).
- **MFI_India.tif** - Long term yearly average MFI (Modified Fournier Index) map for India in **tiff format 0.12-degree resolution**. MFI for India was estimated using hourly IMDAA precipitation dataset for 40 years (1979-2018).
- **FI_India.tif** - Long term yearly average FI (Fournier Index) map for India in **tiff format 0.05-degree resolution**. FI over India was estimated using daily CHIRPS (Climate Hazards Group InfraRed Precipitation with Station data) precipitation dataset for 39 years (1981-2019).
- **Dist_avg_R-Factor.tif** - Distribution of average R-factor (MJ-mm/ha/h/yr) values corresponding Districts of India. District average R-factor reflects the mean rainfall erosivity corresponding to each district
- **Citation: Raj, R., Saharia, M., Chakma, S., Rafieinasab, A., 2022. Mapping rainfall erosivity over India using multiple precipitation datasets. Catena 214, 106256. <https://doi.org/10.1016/j.catena.2022.106256>**
- **Credit: HydroSense Lab, IIT Delhi (<https://hydrosense.iitd.ac.in/>)**

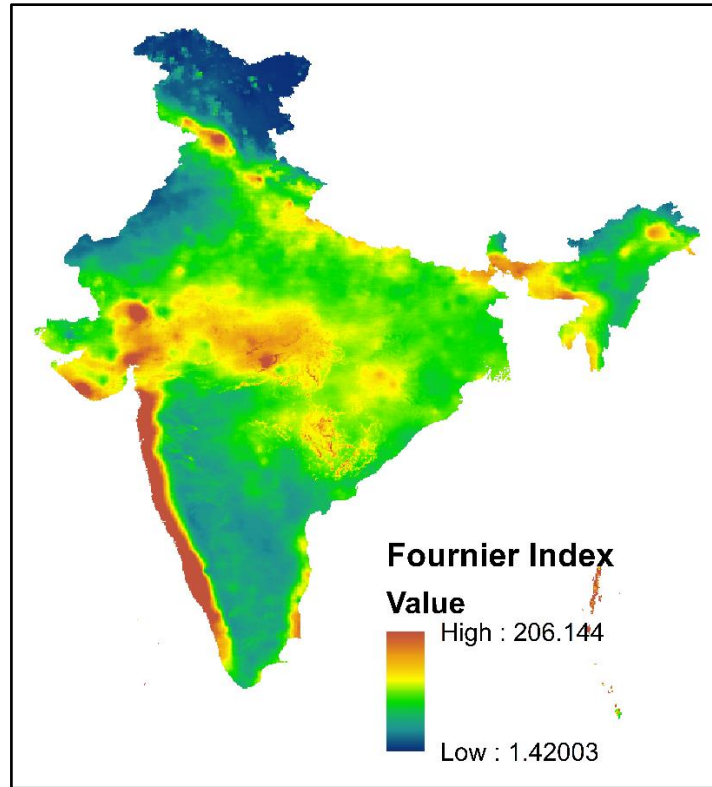
Maps have been added below including colorbar/legends corresponding to each data to be displayed on VEDAS:



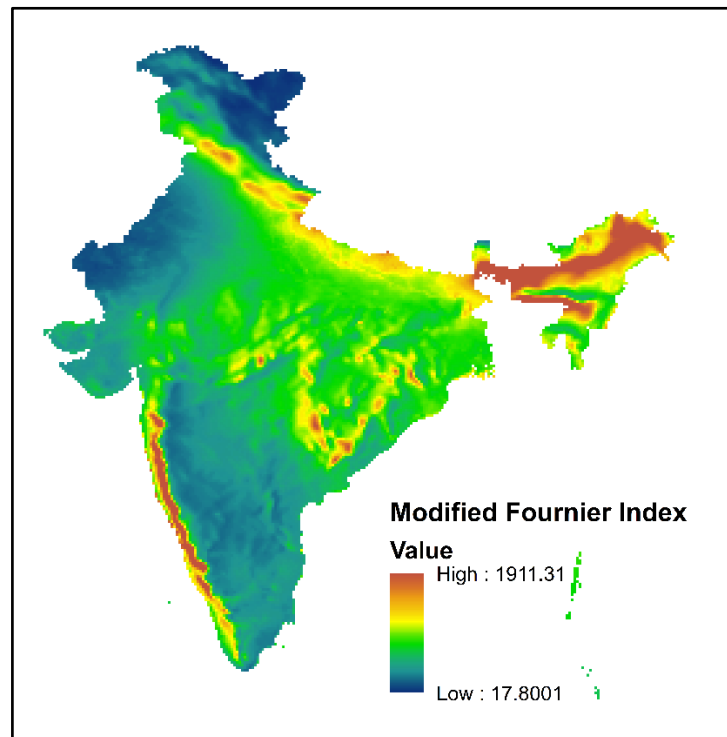
Rainfall Erosivity Map of India



District Average Rainfall Erosivity corresponding to each Districts of India
 While displaying district average R-factor, district shapefile was added for better visualization.



Fournier Index map of India



Modified Fournier Index map of India