

## Changing pattern: Rainfall maps

We wanted to make rainfall maps of India for that time period and see the differences in rain over time.

These are choropleth maps. Each district is shaded according to the volume of average monthly rainfall for that district for that year. Colour chart is given with each map. Darker blue indicates greater rainfall. Lighter cyan indicates lesser rainfall.

We used the [MET data](#) to generate these maps for every year. A few quick observations from the maps show certain patterns.

Eastern states like Uttar Pradesh and Madhya Pradesh have maintained a balanced precipitation over the years ranging from 3000 to 6000 mm annually and rest have been receiving rainfall less than 3000 mm annually.

The complete analysis of 100 years suggests that the mean rainfall for locations have not significantly increased but certain locations have exhibited increasing pattern in heavy rainfall ( greater than 70 mm) during the rainy seasons.

You can see the gif of the changing weather patterns here and click on it to take a closer look a the maps by year.

# Rainfall Map of India 1901

**Data:** India Meteorological Department (rainfall), GADM database of Global Administrative Areas (district boundary), and Census of India 2011 (national boundary).

**Note:** White areas within the national boundary indicate that data is not available for the district concerned.

