

An overview of visualization approaches for environmental data

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This poster presents an overview of tools and approaches used in visualizing various climate variables. Scientists and researchers have been trying to analyze and predict the future variation of environmental variables from decades. Currently, there is an immense amount of data available for such variables. Analyzing these datasets without the help of visualization techniques is very time consuming and sometimes misleading. Using visualization techniques to analyze the environmental data helps the scientists, researchers, educators, and students understand the variation of a particular variable and more accurately predict the future. Today, several industry-standard visualization tools are available on the market. Each tool's approach is different. This poster is focused on surveying several existing visualization tools and analyzing them based on their applicability to environmental sciences. The survey aims to help researchers in choosing the right visualization approach and tool for their data exploration needs. A proposed taxonomy of the visualization techniques is also presented in the poster and several directions of future research in data visualization are outlined.