Validating Regional Climate Models in the Sahel Region of Western Africa

Crae Sosa (UG: CUNY City College of New York)
Kush Dave (HSS: Syosset High School)
Howard Spergel (HST: Midwood High School)
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The Regional Model 3 (RM3) developed at GISS is a climate simulation model that simulates rainfall, temperatures and circulation over a specified region. The model uses 0.5° (~50km) spacing between grid points. In order for the model to run, it needs to be provided with boundary data such as wind speed, wind direction, humidity, sea surface temperatures, etc. For example, the lateral boundary conditions can be taken from The National Center for Environmental Prediction (NCEP Reanalysis Data).

### Validation of Models

Models must be validated using several sources of actual observed historical data:
- TRMM
- CMAP
- Ground Based Weather Stations

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