Analysis of Drought Phenomenon in the Northeast Climate Region

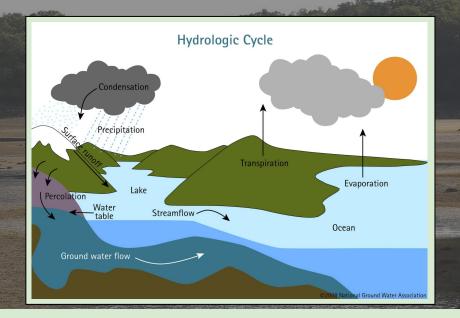
Leulaye Maskal NOAA EPP/MSI Scholar

Mentors/Advisors:
Nir Krakauer & Tarendra Lakhankar



Hydrological Drought

- a shortage of water compared to some 'normal' level
 - in streams or storages such as reservoirs, lakes, groundwater, and snowpacks
- slowly developing phenomenon that impacts many sectors of the society, the economy and the biosphere.



Drought on East Coast Raises Worries of Water Rationing



By Iver Peterson With Barbara Stewart

Feb. 20, 2002

Drought Reporting

Temporal Data Source: United States Drought Monitor and NOAA Storm Events
 Database















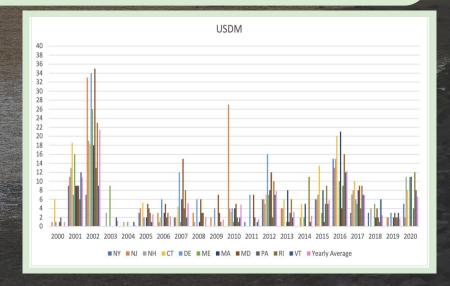
NOAA SED:

Drought event type added

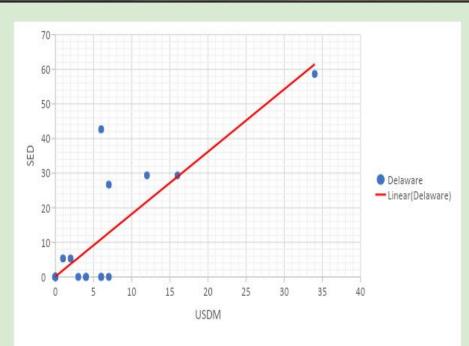
Current Research

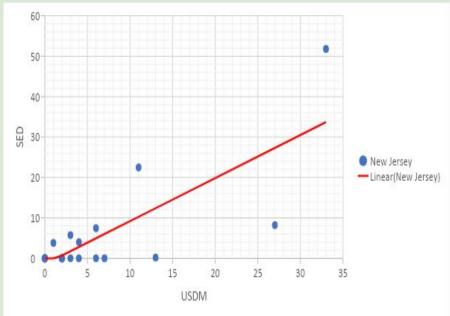
- Indexed and illustrated drought reporting data for Northeastern Climate Region on a yearly and monthly basis
- Compare reporting rates to media and news drought response
- Form hypothesis of drought reporting sensitivity and methodology



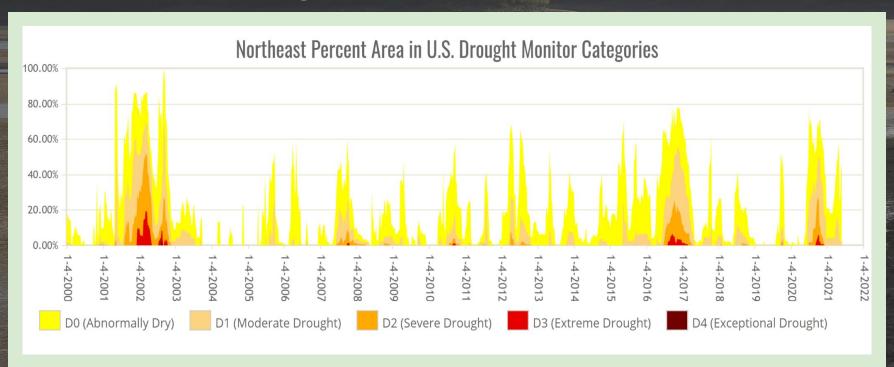


Linear Regression: SED vs. USDM New Jersey & Delaware





Drought in Northeast USA



Research Objectives

- Monthly Analysis: 2000 to 2020
 - Examine effect of seasonality on drought reporting
 - Ilustrate/model indexed data
- Drought Impact Assessment
 - Economic indicators & health/social impact
- Build and fine tune Research oriented skills
 - Presentation/public speaking
 - Software/Coding implementation
 - Teamwork and collaboration

