Climate Data –Where to Get it

I. The North American Drought Atlas (NADA)- The North American Drought Atlas is the best source for understanding moisture variability over the last 2,000 years. It allows you compare and contextualize various drought events in terms of the 1000-year drought variability in any area across the continent.

Pros- Can view the drought conditions for any given year, as well as seasonal drought for the summer months of June July and August.

Cons- Difficult to manipulate and downscale to create local averages. Data comes as a netCDF (Network Common Data Format) .nc file. Data is not yet available after 2006.

Link-http://drought.memphis.edu/NADA/Default.aspx

II. PRISM Climate Group-This data platform from the Oregon State University PRISM Climate Group gives monthly temperature and precipitations values going between 1895-2016.

Pros- Allows you to download raw data and manipulate how you wish for monthly precipitation and temperature trends. Can be manipulated in Excel.

Cons-Does not provide projections, historical data only.

Link-http://www.prism.oregonstate.edu/

III. USGS Regional Climate Change Viewer-This tool from the USGS allows you to view historical and projected changes in temperature, soil moisture, growing days, and evapotranspiration, downscaled to the intra-state regional level. Allows you to view projected changes through 2100 in an interactive map interface. Can view and download associated data as well as daily and monthly time series graphs for your own use.

Pros- Interactive interface, allows you to view projections and difference with historical data "at a glance". Allows you to download raw data and manipulate how you wish in Excel. Gives projected changes based on a variety of climate modeling methodologies.

Cons- Cannot get downscaled projections or historical data beyond the intra-state region scale (e.g. Diamond-Monitor Valley).

Link- http://regclim.coas.oregonstate.edu/visualization/rccv/hydrology/index.html4

IV NEMAC Climate Explorer-This tool from the National Environmental Modeling and Analysis Center allows you to view historical climate data for a given region or locality. Additionally, it allows you to generate maps and visualizations for a wide variety of climate stressors (e.g. drought, flooding, etc.) to generate information that is of use to you for your specific areas of concern.

Pros- Allows you to create tailored visualizations of your specific climate stressors.

Cons- Does not allow you to download the data you are using. Does not give projections.

Link- https://climate-explorer.nemac.org/

V. LOCA Downscaled Climate Projections-This tool from the Scripps Institute of Oceanography allows you to view downscaled climate projections up to the year 2100 for the CAL-ADAPT area, which includes California and Nevada.

Pros- Allows you to get local downscaled precipitation and temperature projections for your specific area of interest. Allow you to download data as a CSV for Excel, or a JSON for ArcGIS.

Cons- Applicable for California and Nevada-based tribes only.

Link- http://cal-adapt.org/data/loca/

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