Making Climate Data Relevant to Decision Makers



Climate Wizard and the Knowledge Portal

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WASHINGTON









Making Climate Data Relevant to Decision Makers

Downscaled climate models

 climate projections developed by climate scientists

Climate impacts relevant to people

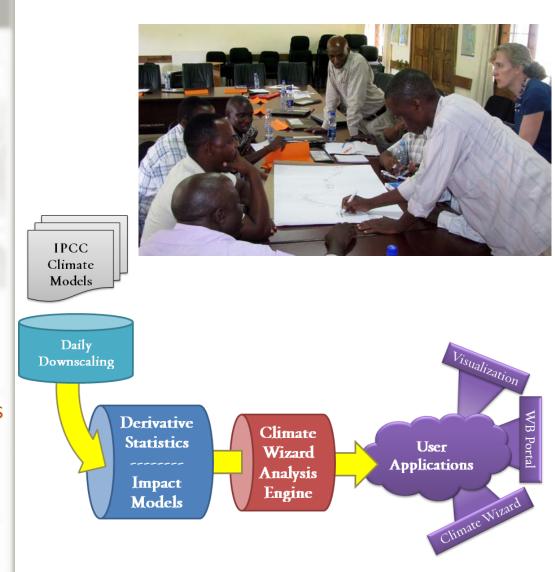
 translating changes to temperature and precipitation into specific sector based impacts

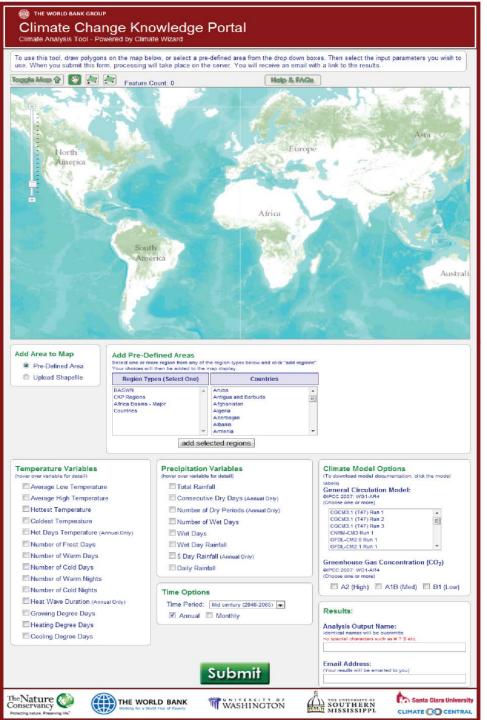
Built from TNC's Climate Wizard

 Query and analyze climate databases for geographic places

Freely accessible climate analysis

Interfaces links users to web-based mapping applications





Strengths

Visualize and explore climate

Geographic areas (global to local)

Climate Variables (temperature, precipitation)

Time Domains (annual, monthly)

Time periods (historic, future)

Climate change analysis

Terabytes of downscaled climate data

Stored at a central location

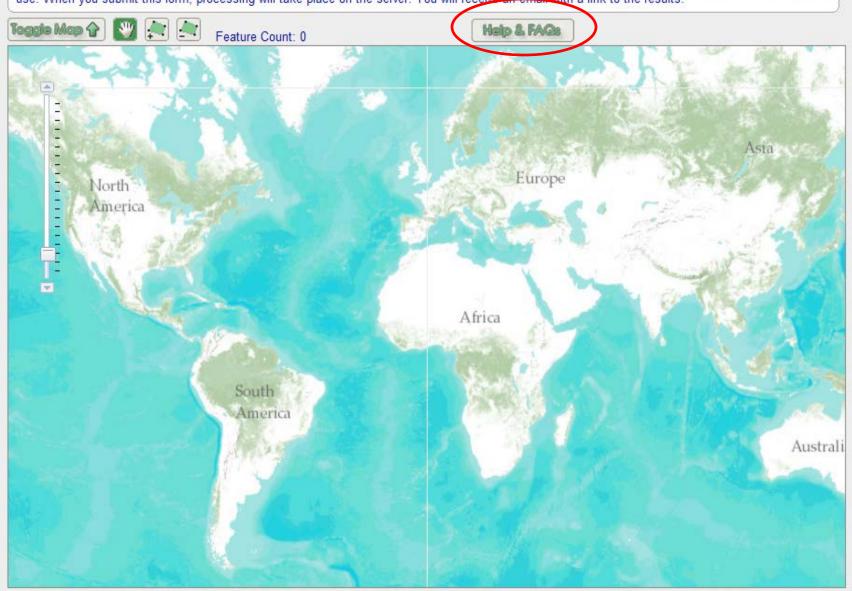
Powerful computers run statistical analysis

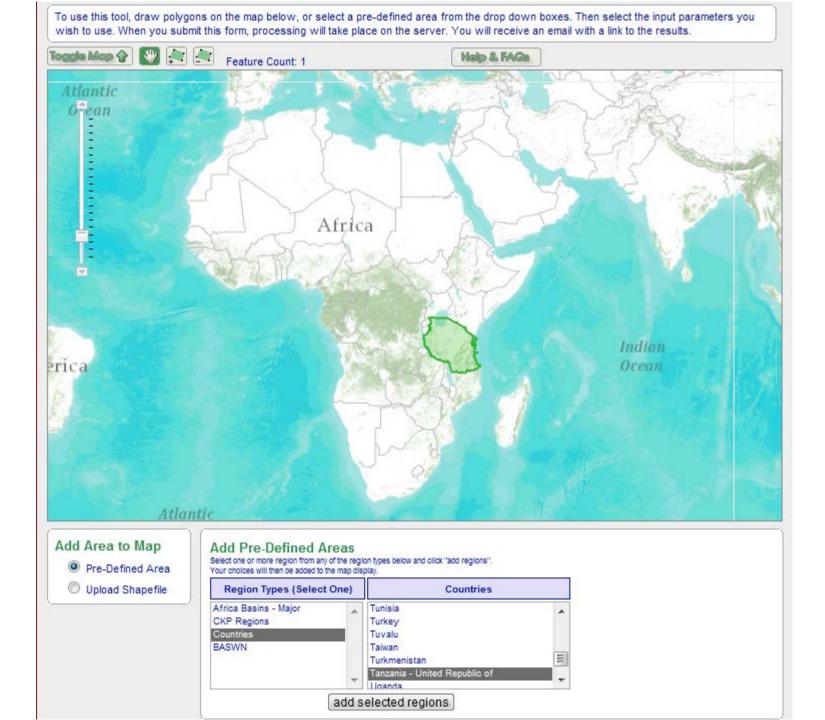
User friendly web interface

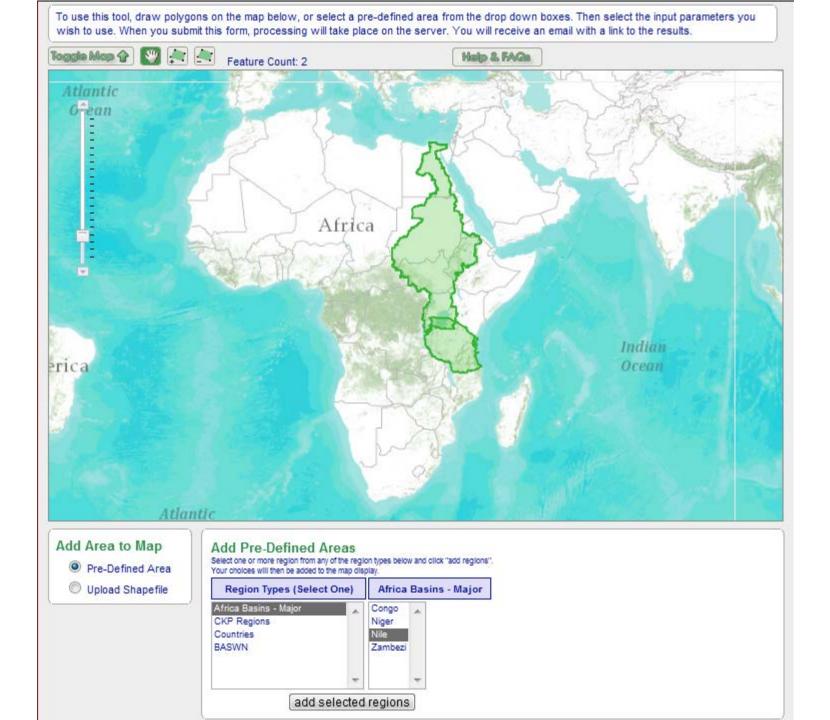
Climate Change Knowledge Portal

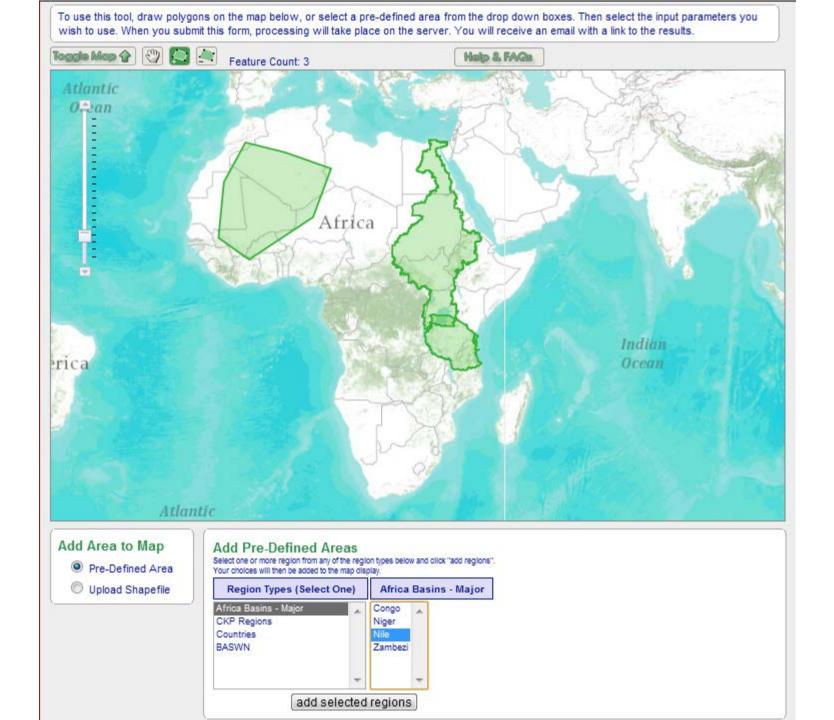
Climate Analysis Tool - Powered by Climate Wizard

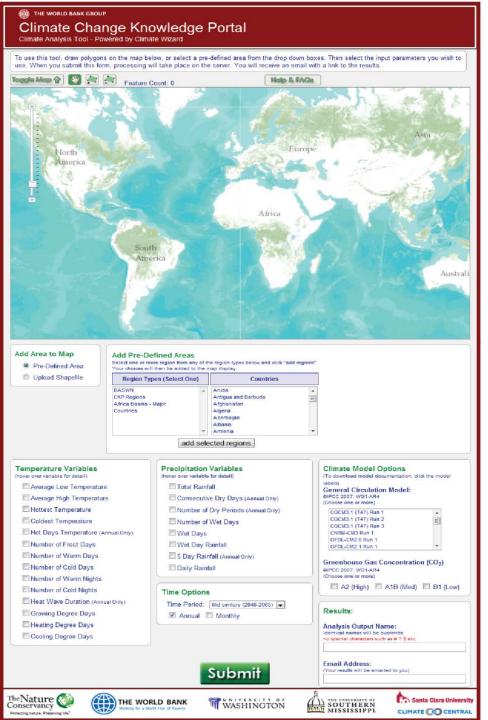
To use this tool, draw polygons on the map below, or select a pre-defined area from the drop down boxes. Then select the input parameters you wish to use. When you submit this form, processing will take place on the server. You will receive an email with a link to the results.











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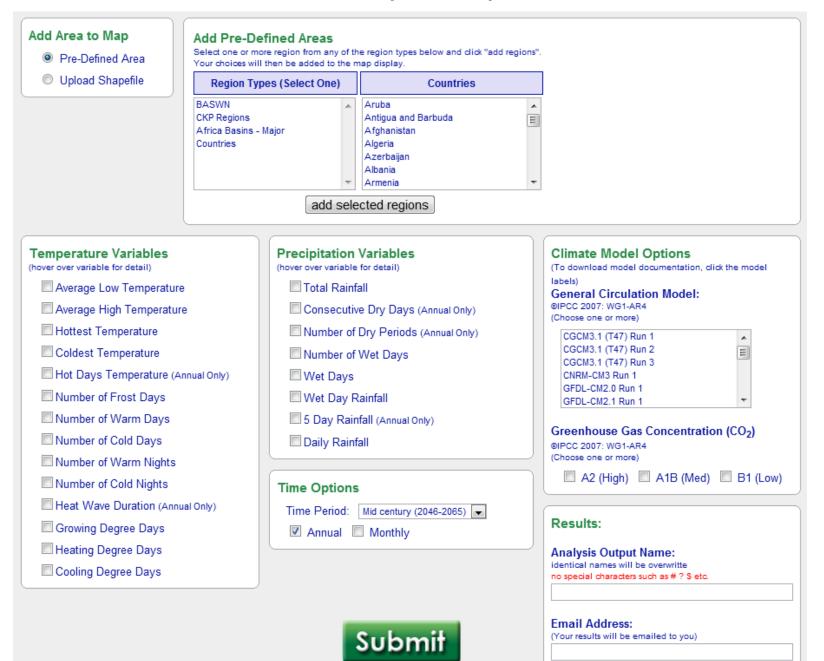
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Climate Analysis Options





22 Climate Variables





Daily Rainfall

Temperature Variables

- Average Low Temperature
- Average High Temperature
- Hottest Temperature
- Coldest Temperature
- Hot Days Temperature (Annual Only)
- Number of Frost Days
- Number of Warm Days
- Number of Cold Days
- Number of Warm Nights
- Number of Cold Nights
- Heat Wave Duration (Annual Only)
- Growing Degree Days
- Heating Degree Days
- Cooling Degree Days

Helping people adapt to climate change impacts

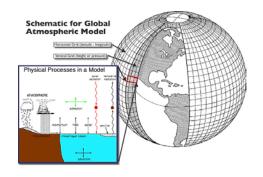
Making Climate

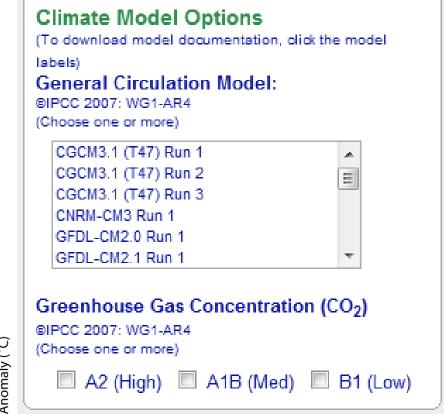
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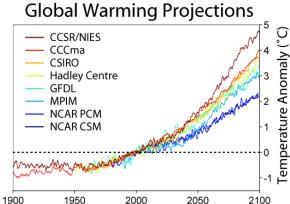
Application	Relevant Derivative Climate Metrics
Crop Productivity	Total Precipitation Concecutive Dry Days Number of Dry Periods Number of Wet Days Growing Degree Days Heat Wave Duration Index Number of Frost Days Hottest Temperature Coldest Temperature Average Low Temperature
Water Supply	Total Precipitation Concecutive Dry Days Number of Dry Periods
Flood Risk	Total Precipitation Wet Days Wet Day Rainfall 5 Day Rainfall Daily Rainfall

Application	Relevant Derivative Climate Metrics
Human Health	Hottest Temperature Coldest Temperature Number of Warm Days Number of Cold Nights Heat Wave Duration Index
Energy Demand	Heating Degree Days Cooling Degree Days
Ecosystem Resilience	Total Precipitation Consecutive Dry Days Number of Dry Periods Average Low Temperature Average High Temperature Hottest Temperature Coldest Temperature Number of Frost Days Growing Degree Days

54 Global Climate Models

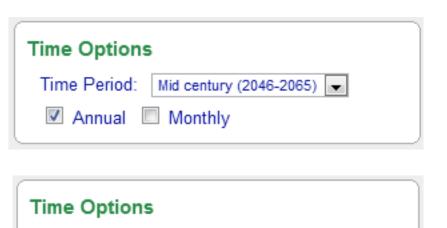








Choose a time period to analyze



Mid century (2046-2065)

Mid century (2046-2065)

End century (2081-2100)

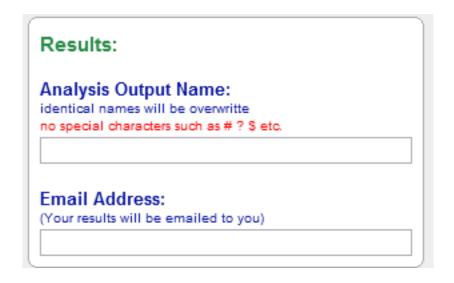
Time Period:

Annual

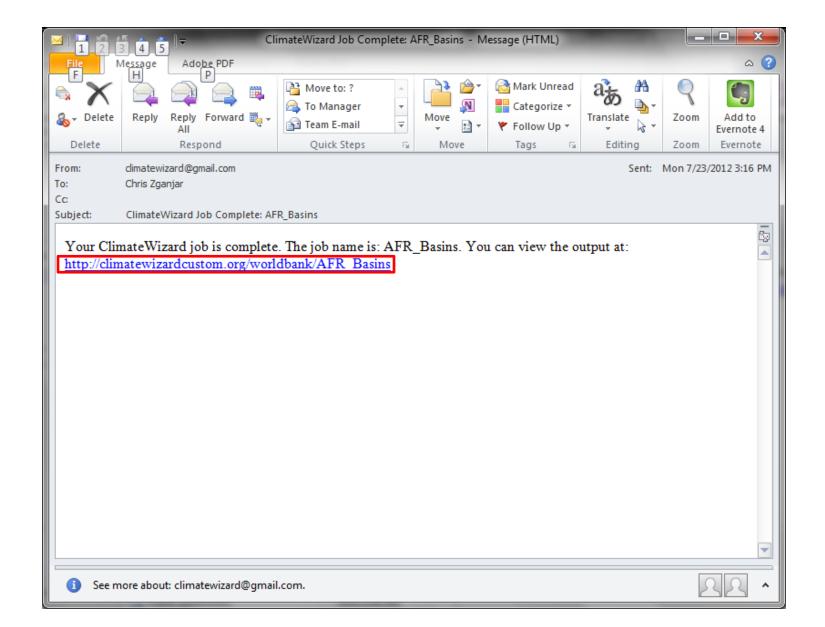




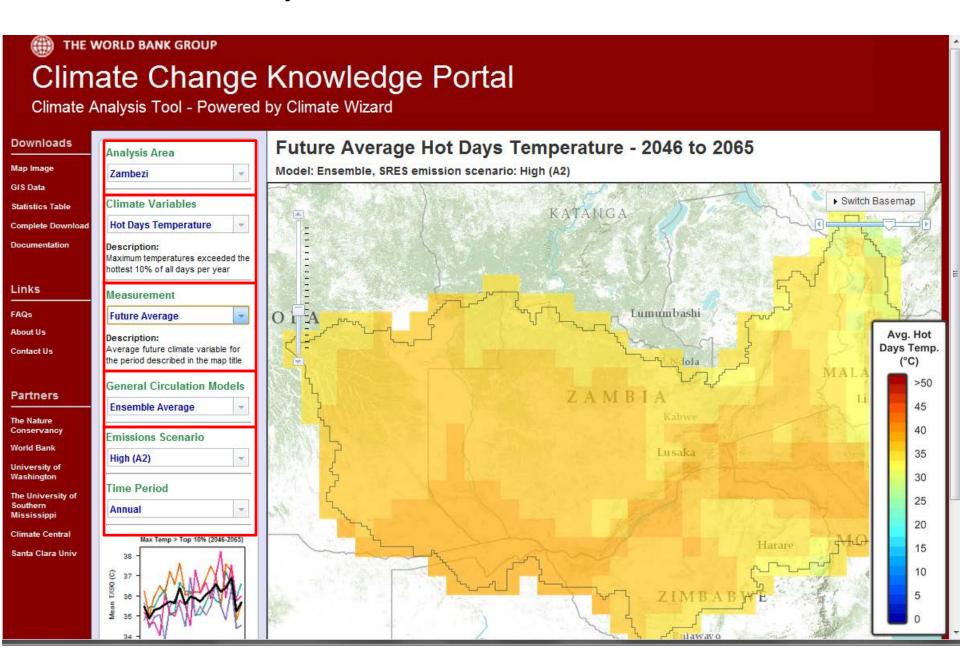
Results will be emailed to you

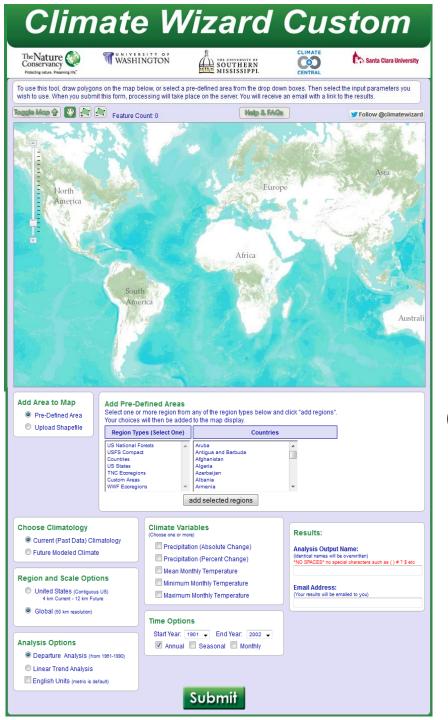


Your custom results website link is emailed to you



Climate Analysis Results: View and Download





Try it @

climatewizard.org

climatewizardcustom.org

Thank You