

## Title

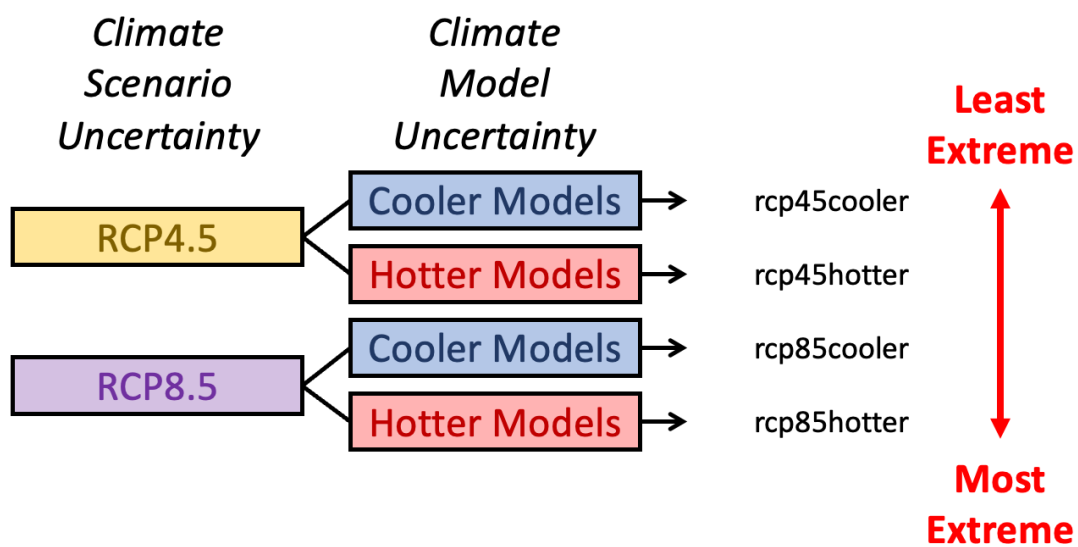
Projections of Hourly Meteorology by County Based on the IM3/HyperFACETS Thermodynamic Global Warming (TGW) Simulations

## Years

The dataset contains 40 years (1980-2019) of historical meteorology and 80 years (2020-2099) of projected meteorology across four different climate scenarios.

## Scenarios

The four IM3 future climate scenarios span a wide but plausible range of climate scenario uncertainty (i.e., RCP4.5 vs RCP8.5) and climate model uncertainty (i.e., using models that are hotter or colder than the multi-model mean climate sensitivity).



## Variables

Variable	Name	Description	Units
County ID	FIPS	FIPS code for the county	-
Temperature	T2	2-m temperature	K
Specific Humidity	Q2	2-m water vapor mixing ratio	kg kg <sup>-1</sup>
Wind Speed	U10	10-m east-west wind speed	m s <sup>-1</sup>
Wind Speed	V10	10-m north-south wind speed	m s <sup>-1</sup>
Shortwave Radiation	SWDOWN	Downwelling shortwave radiative flux at the surface	W m <sup>-2</sup>
Longwave Radiation	GLW	Downwelling longwave radiative flux at the surface	W m <sup>-2</sup>