



# Understanding Decision-Climate Interactions on Decadal Scales

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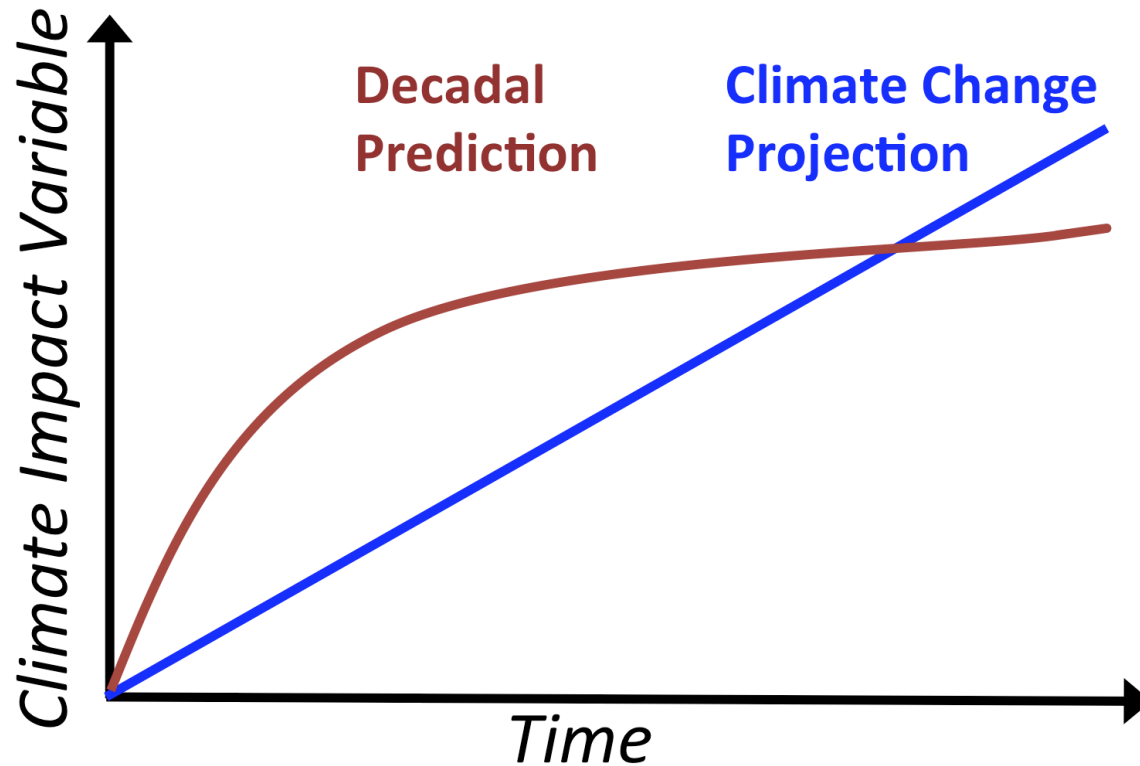
Armin Munévar, Tapash Das

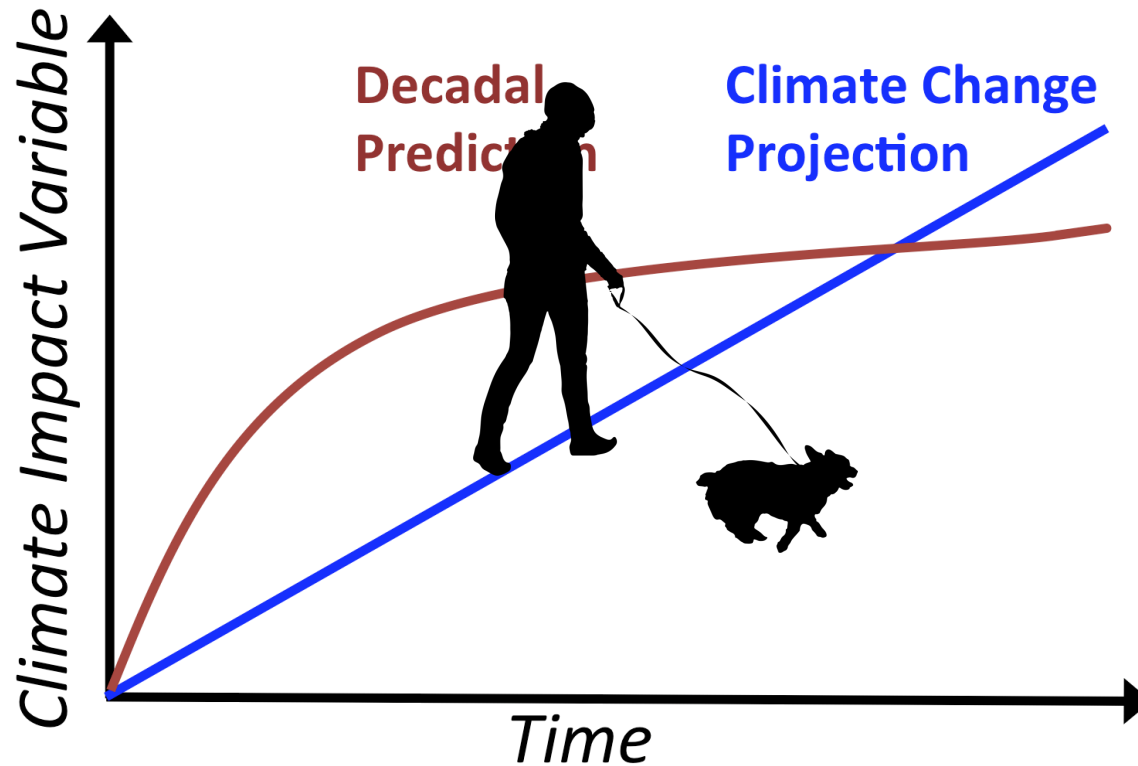


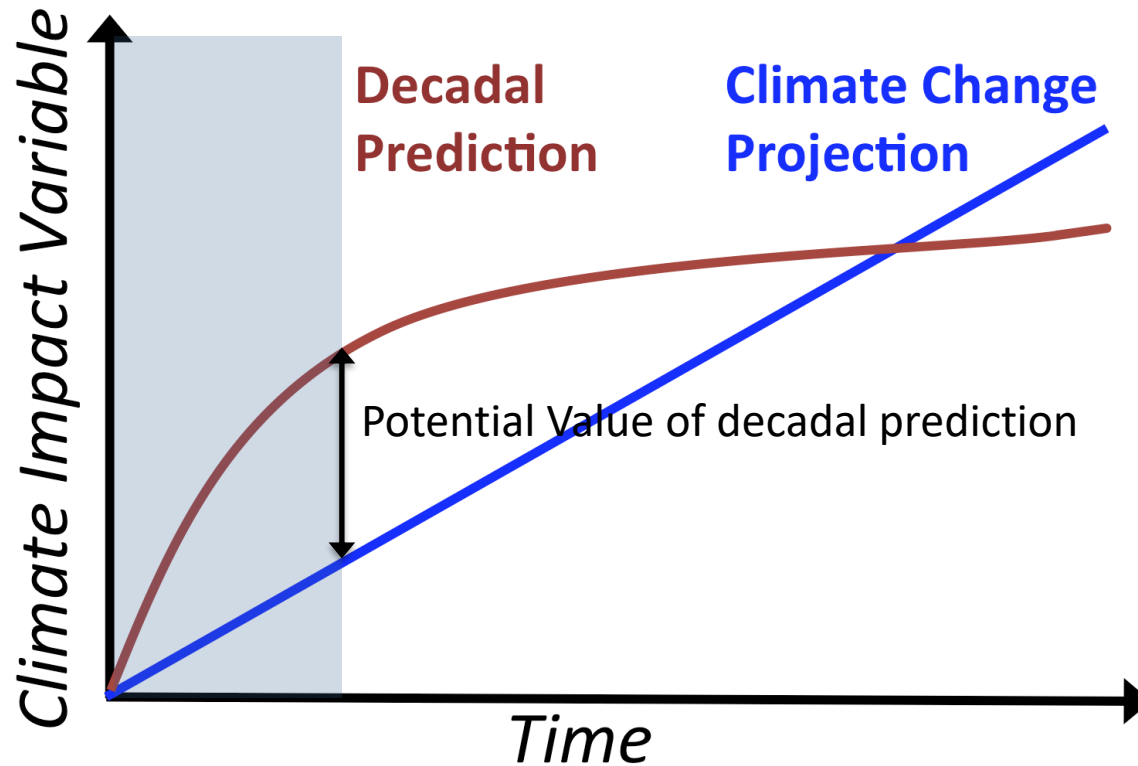
Jeff Czajkowski



Jennifer Hoeting, Josh Hewitt, Casey Schafer







**Weather  
Forecasts**

**Seasonal  
Outlooks**

**Decadal  
Predictions**

**Climate Change  
Projections**

*Timescale* 

**Skill from Initial State**

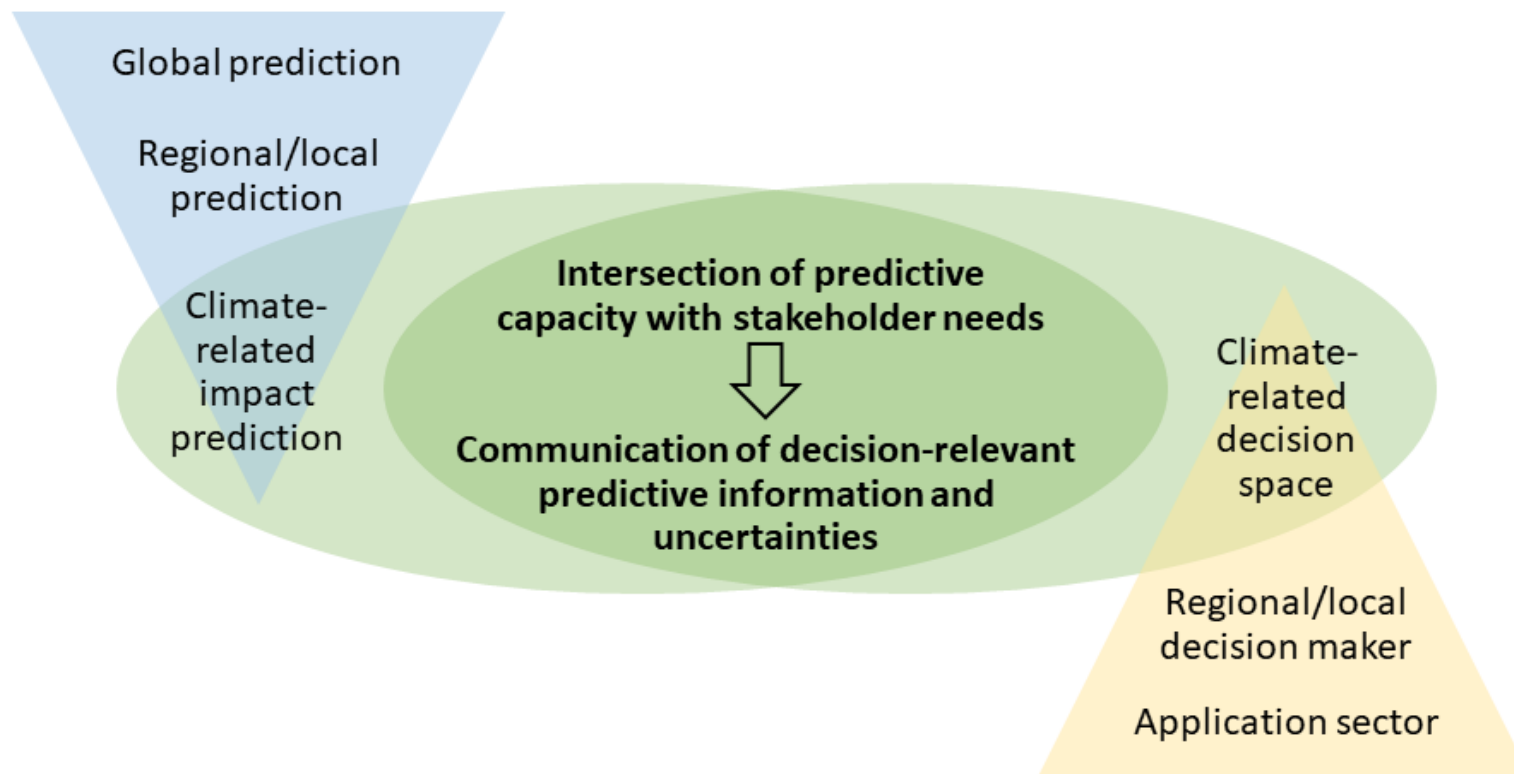


**Skill from Climate Forcing**



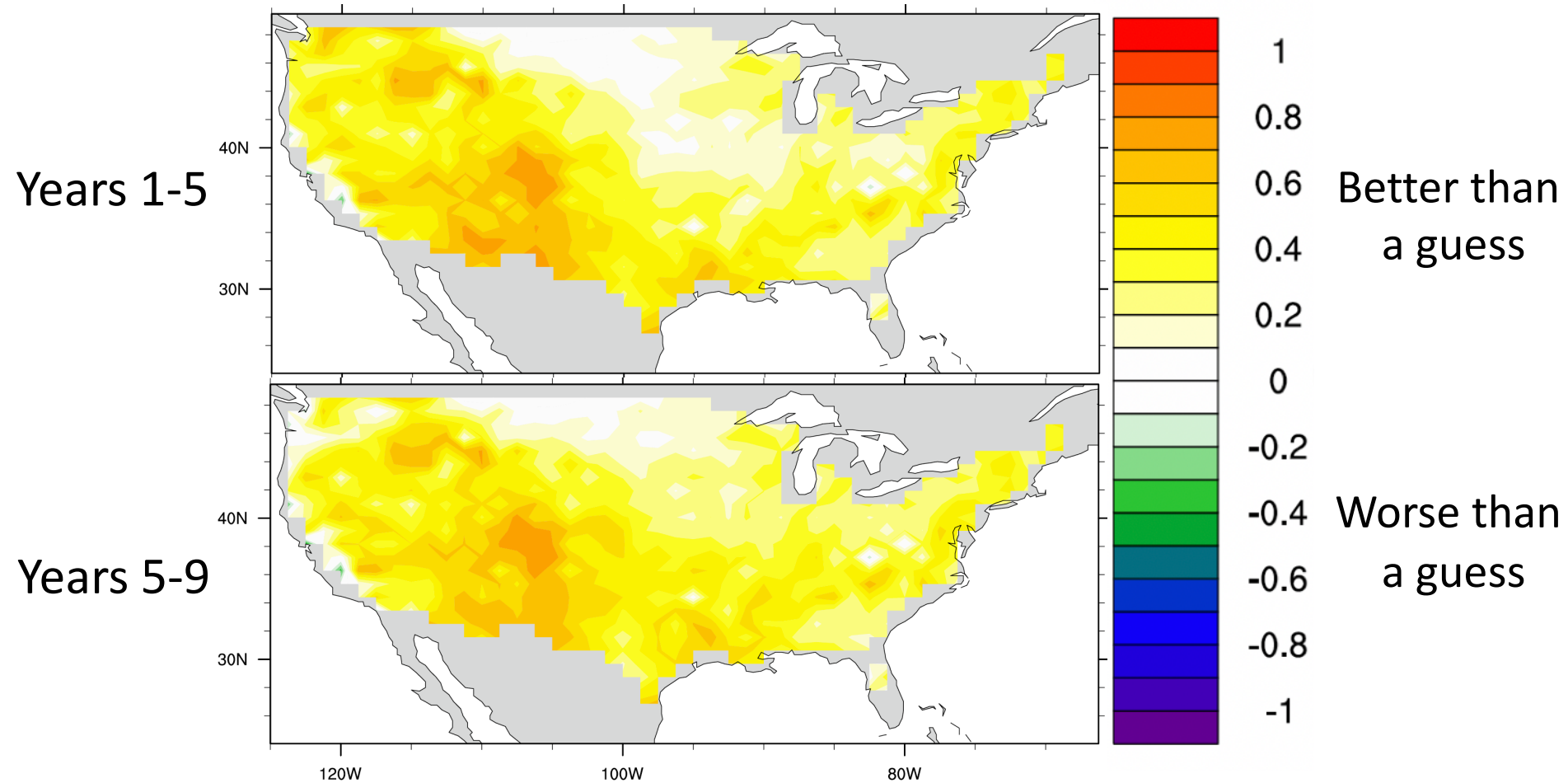
*Adapted from Meehl et al (2009)*

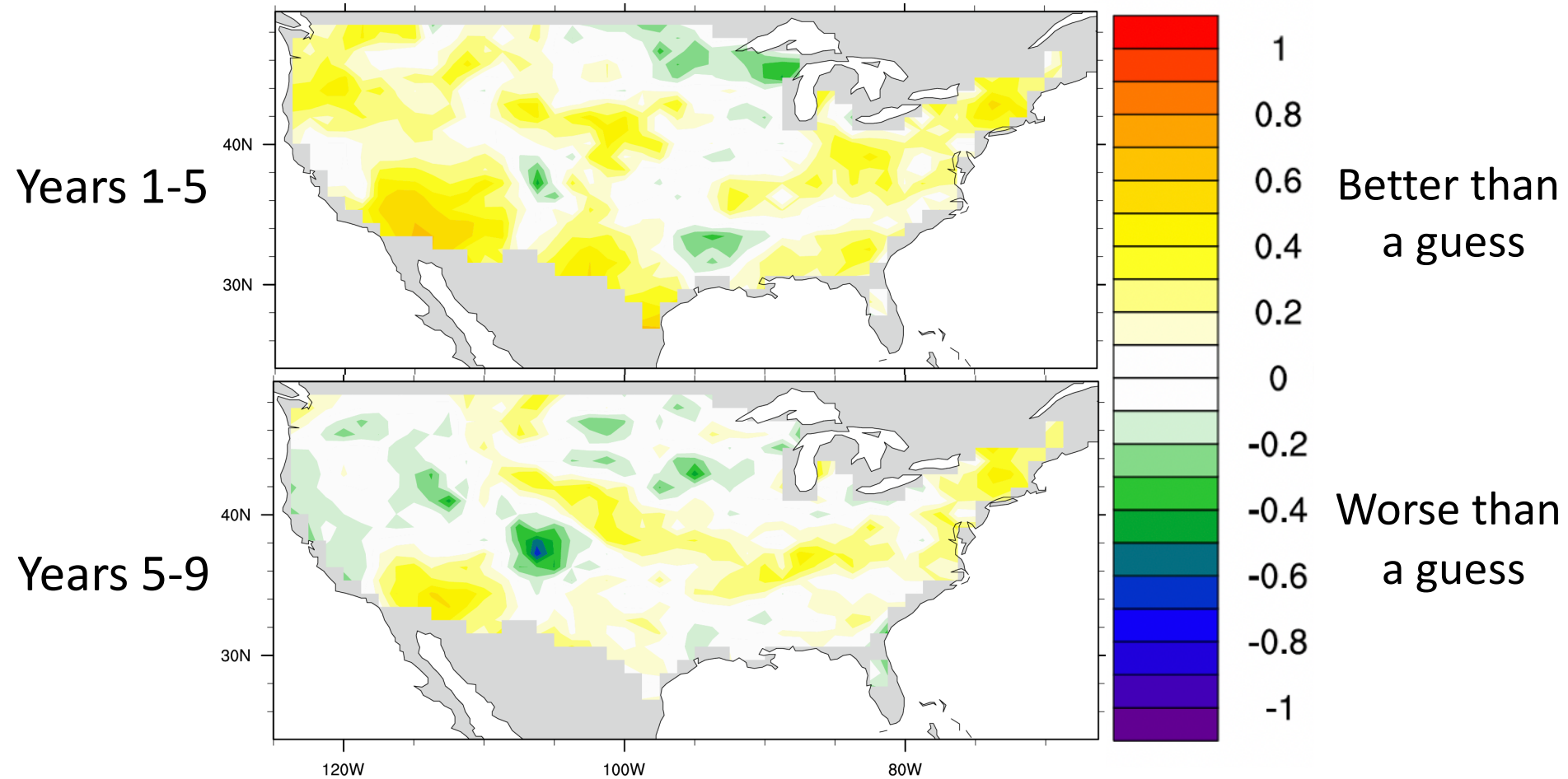
## What is Skillful?



## What is Needed?

# Temperature is Skillful





## Why are we here?

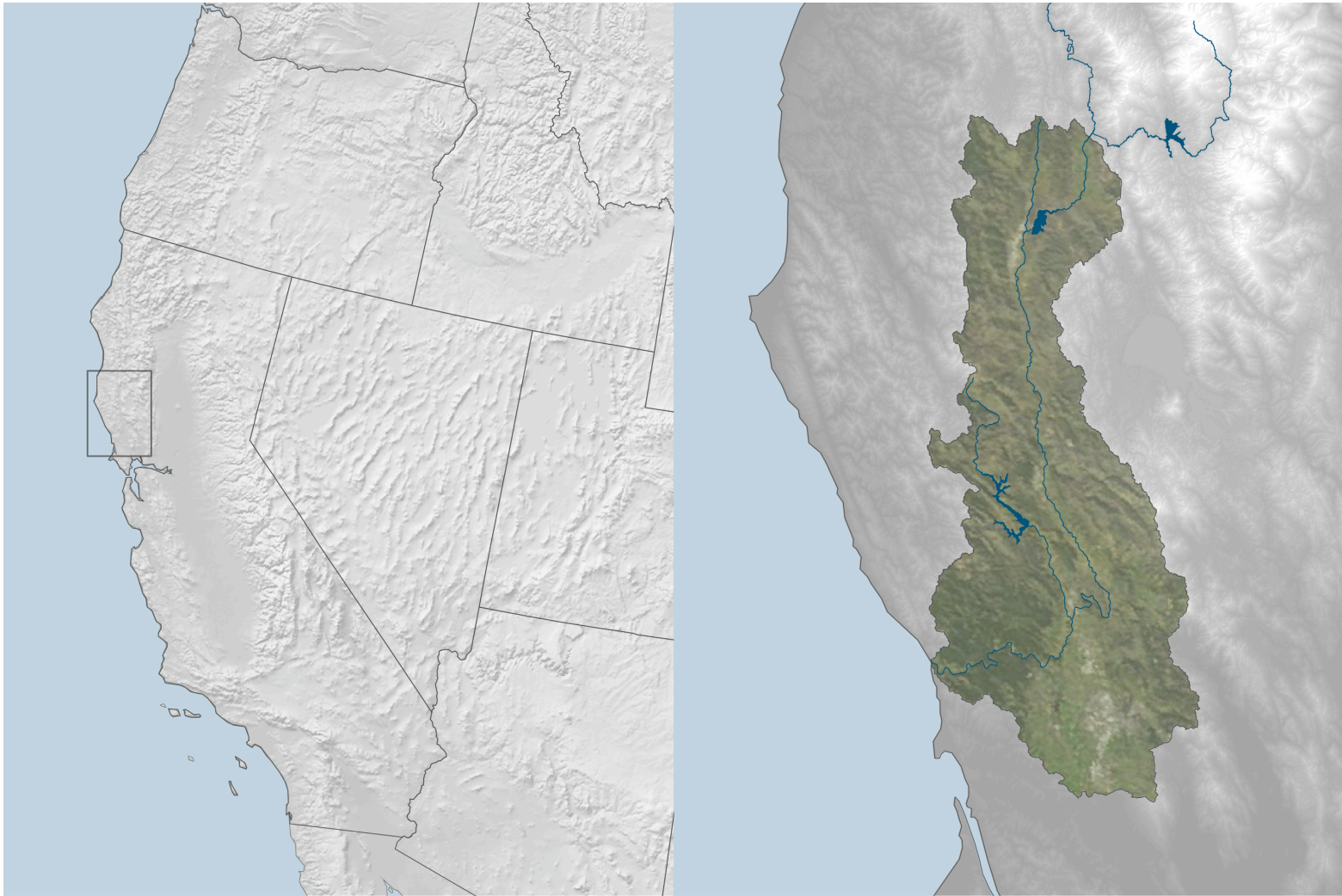
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To understand the key characteristics of useful decadal climate information for water management decisions.

How?

Get your reactions to a few images of the decadal climate predictions.

# Russian River Focus



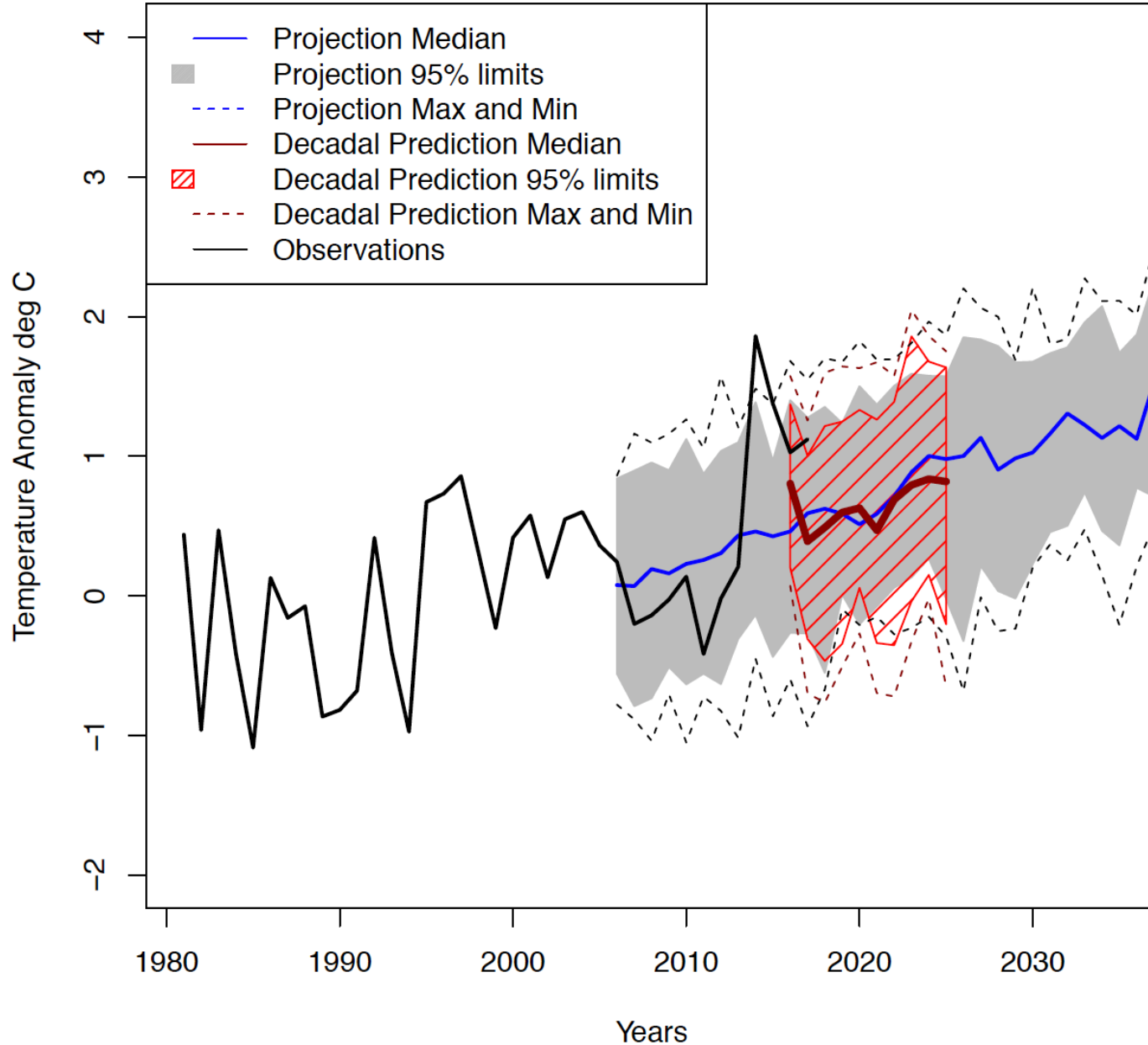
Russian River watershed

NOAA Climate.gov

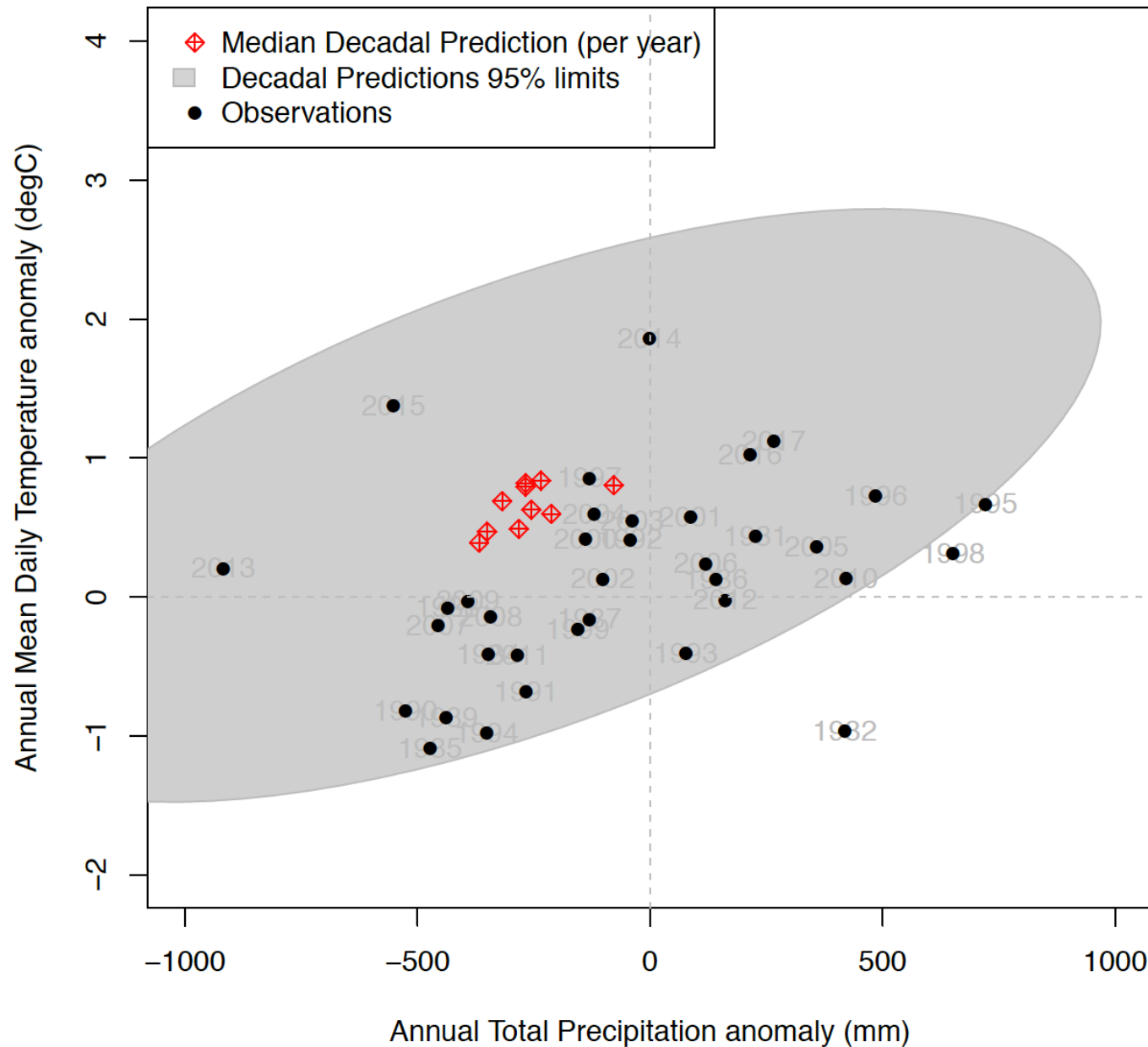
Source: NOAA

<https://www.climate.gov/news-features/features/who-rules-californias-russian-river>

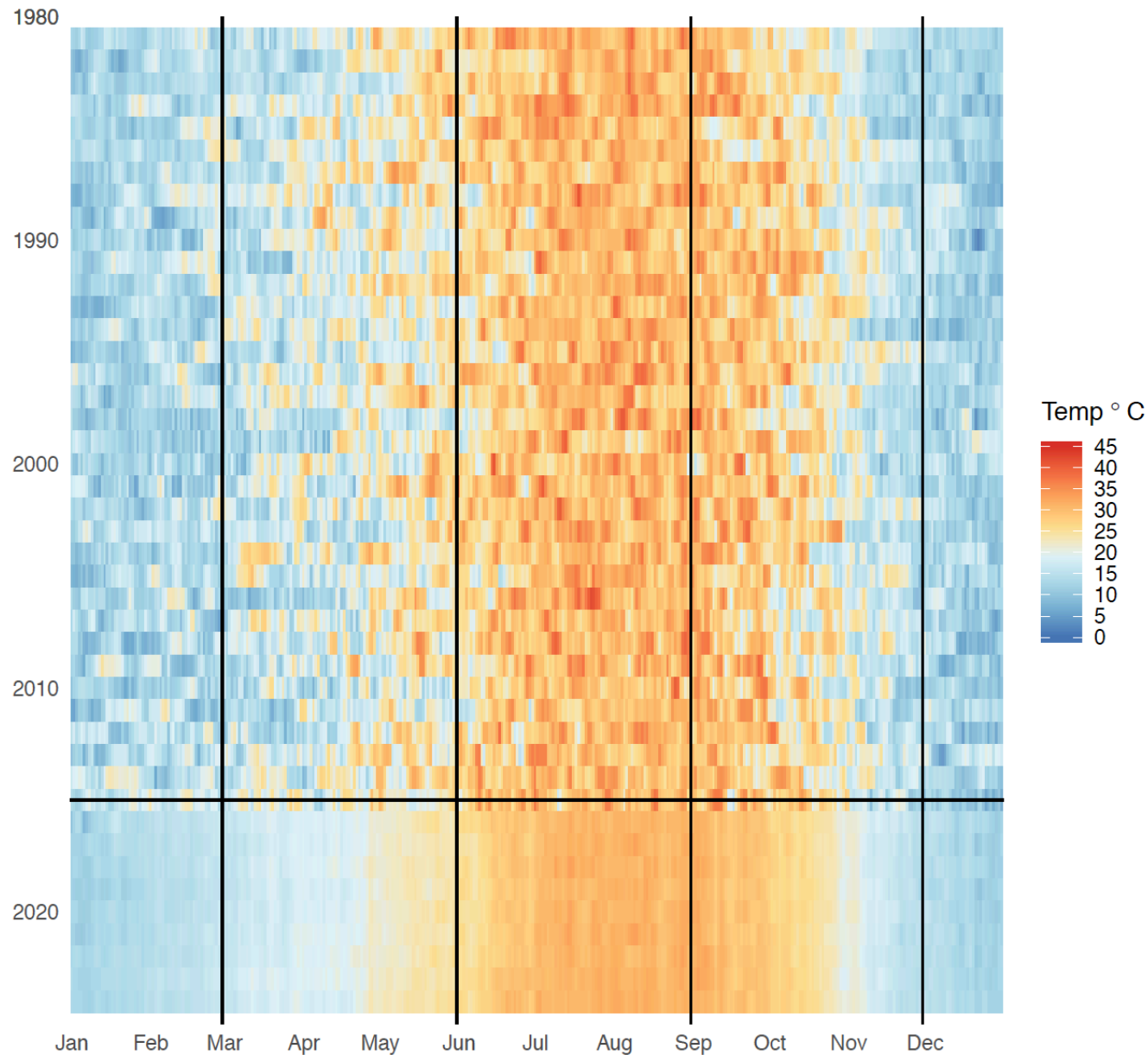
# Mean Annual Daily Minimum Temperature



# Annual Temperature and Precipitation Anomalies



# Observed and Predicted Daily Max Temperature



# Wet Day Seasonality

