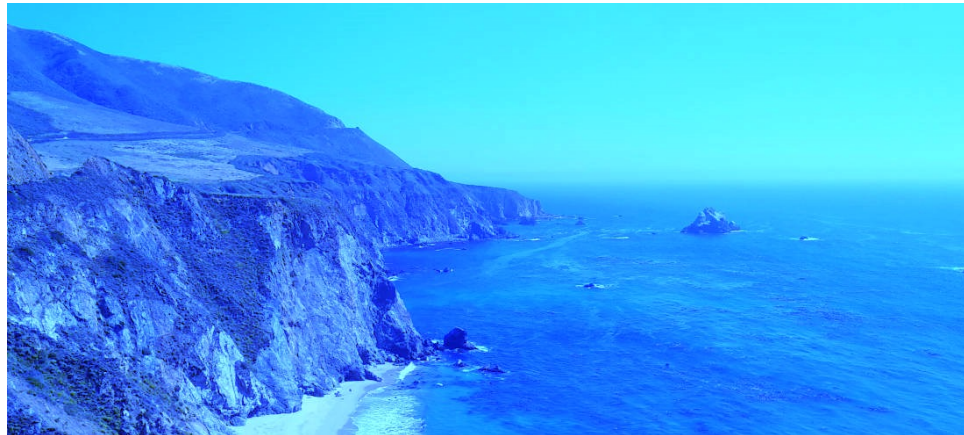


Adapting to Climate Change: New Weather Files for a Warming California

Nathan Oliver

Big Ladder Software

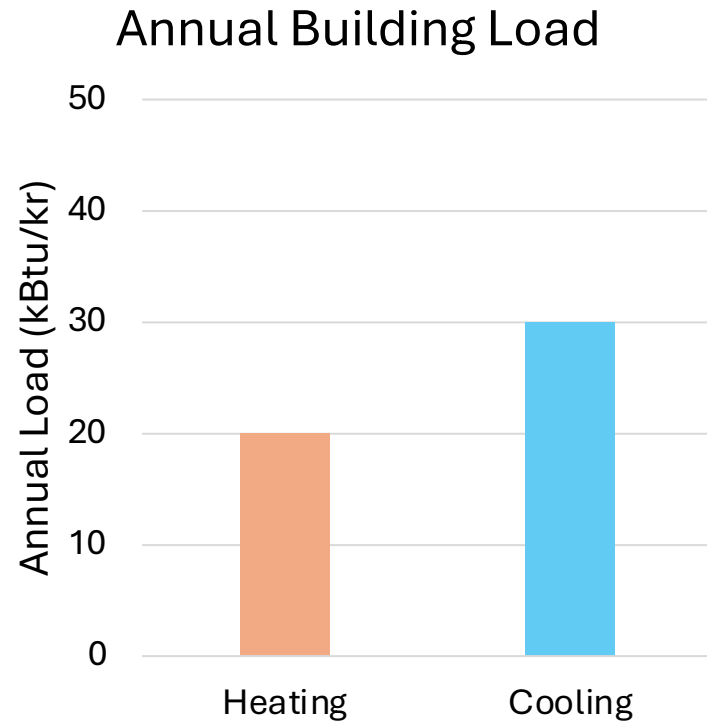
Simulation



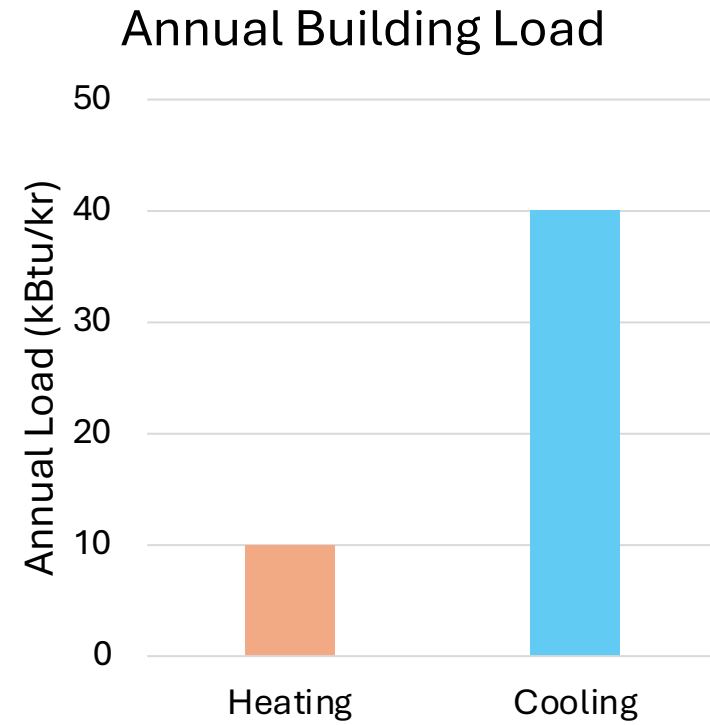
Reality



Simulation



Reality



Simulation



Reality



Simulation



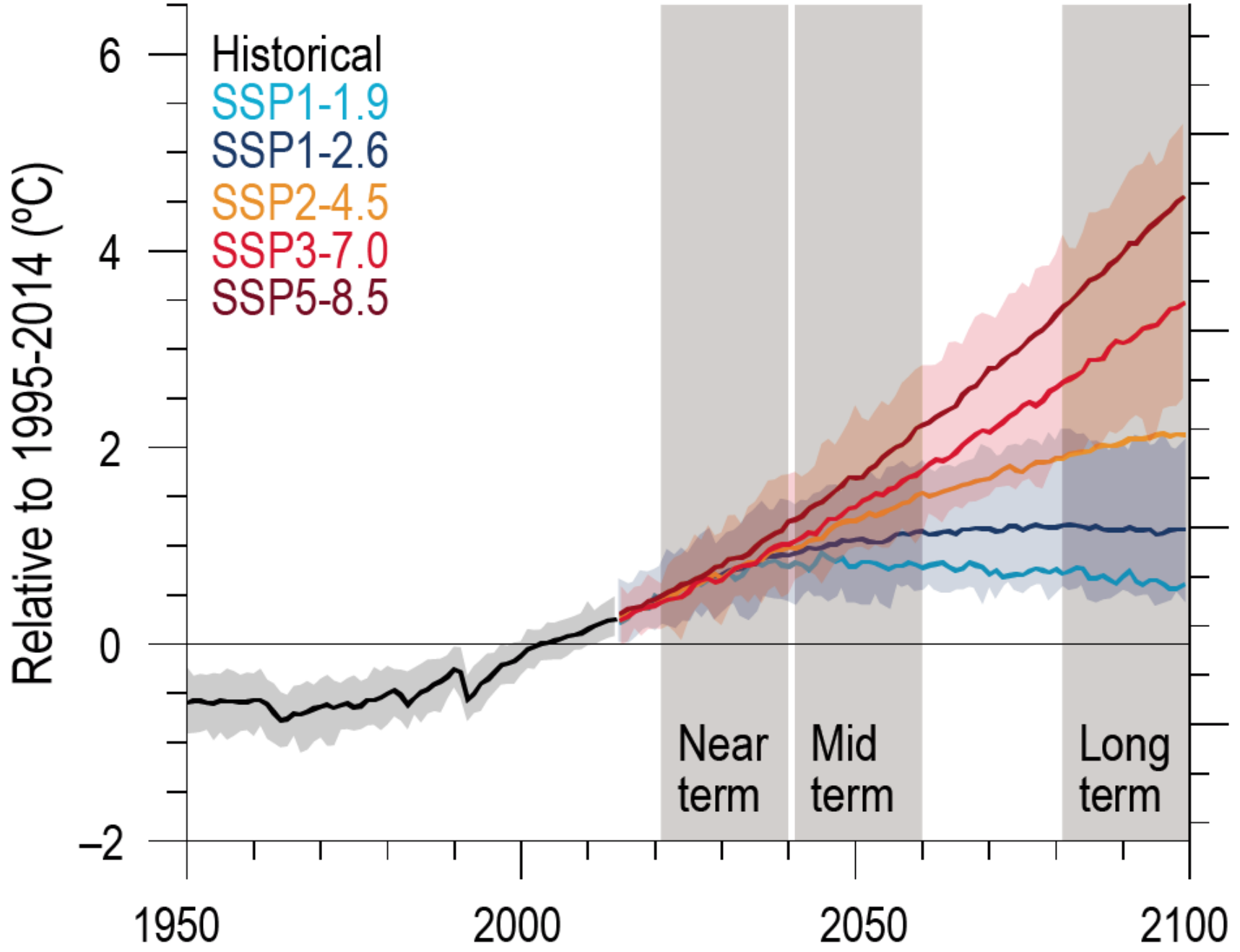
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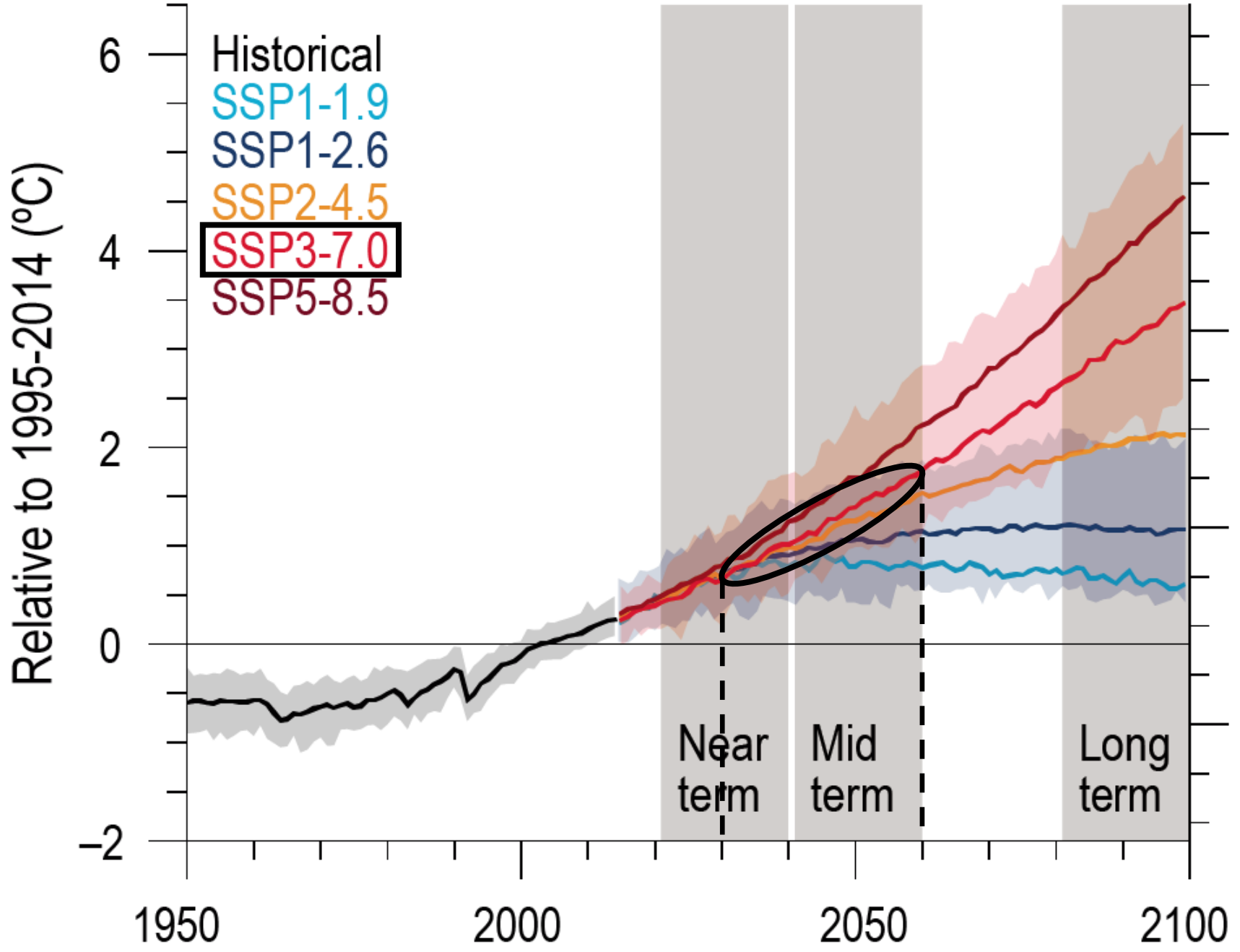
Where to Get Future Weather Data?



Cal-Adapt:
**ANALYTICS
ENGINE**

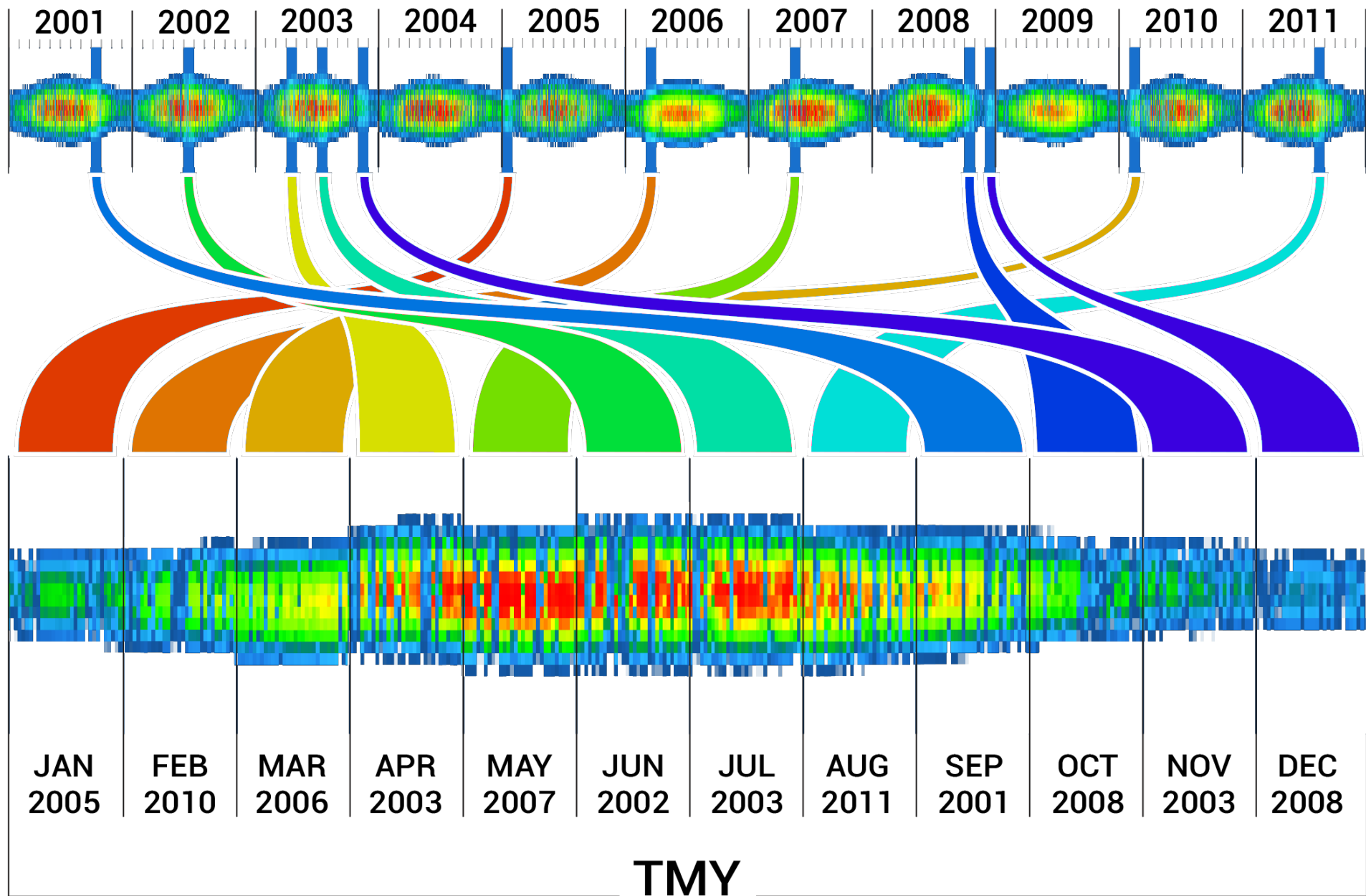


Source: Intergovernmental Panel on Climate Change Sixth Assessment Report



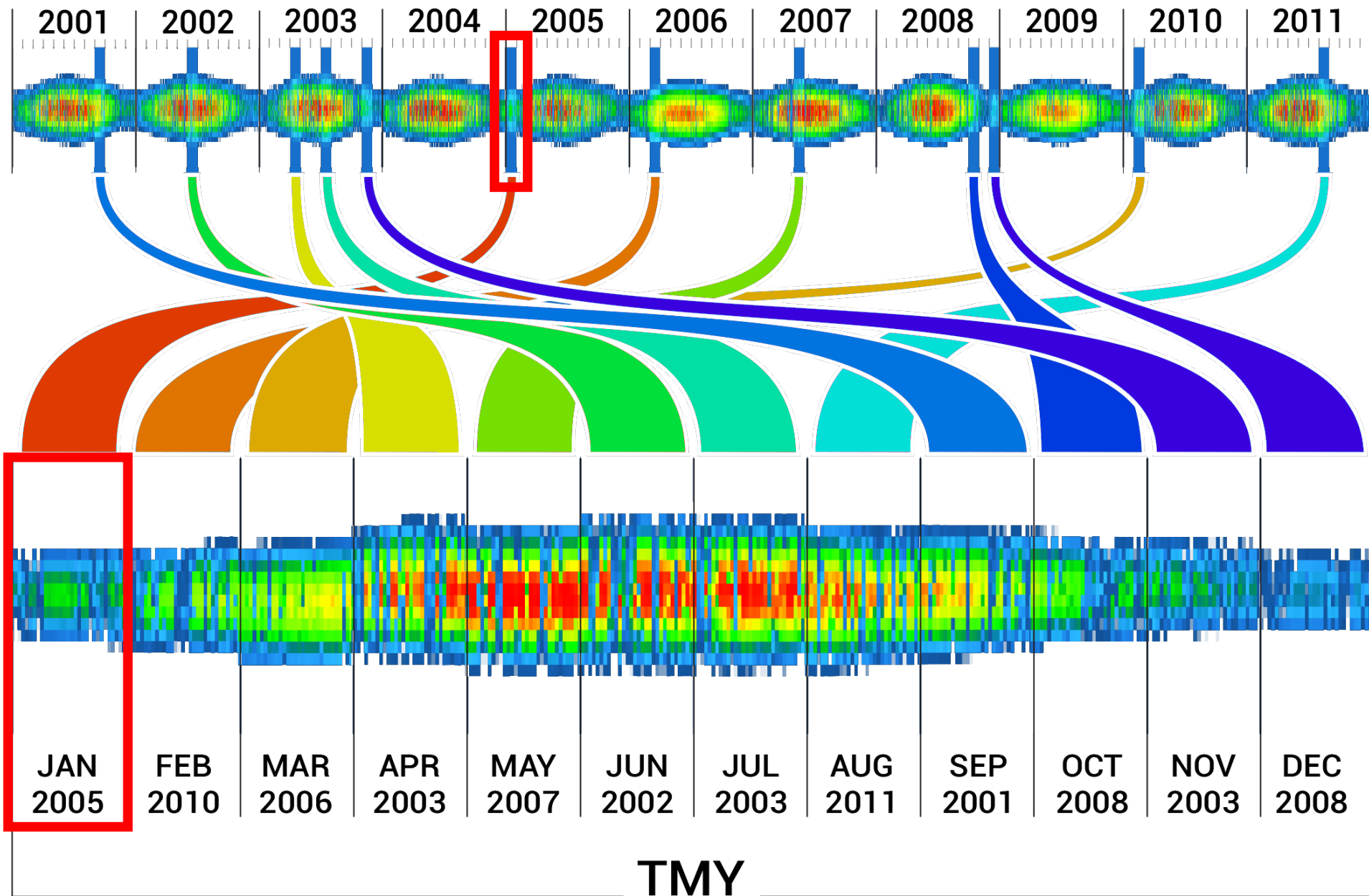
Source: Intergovernmental Panel on Climate Change Sixth Assessment Report

How to Create a Weather File?



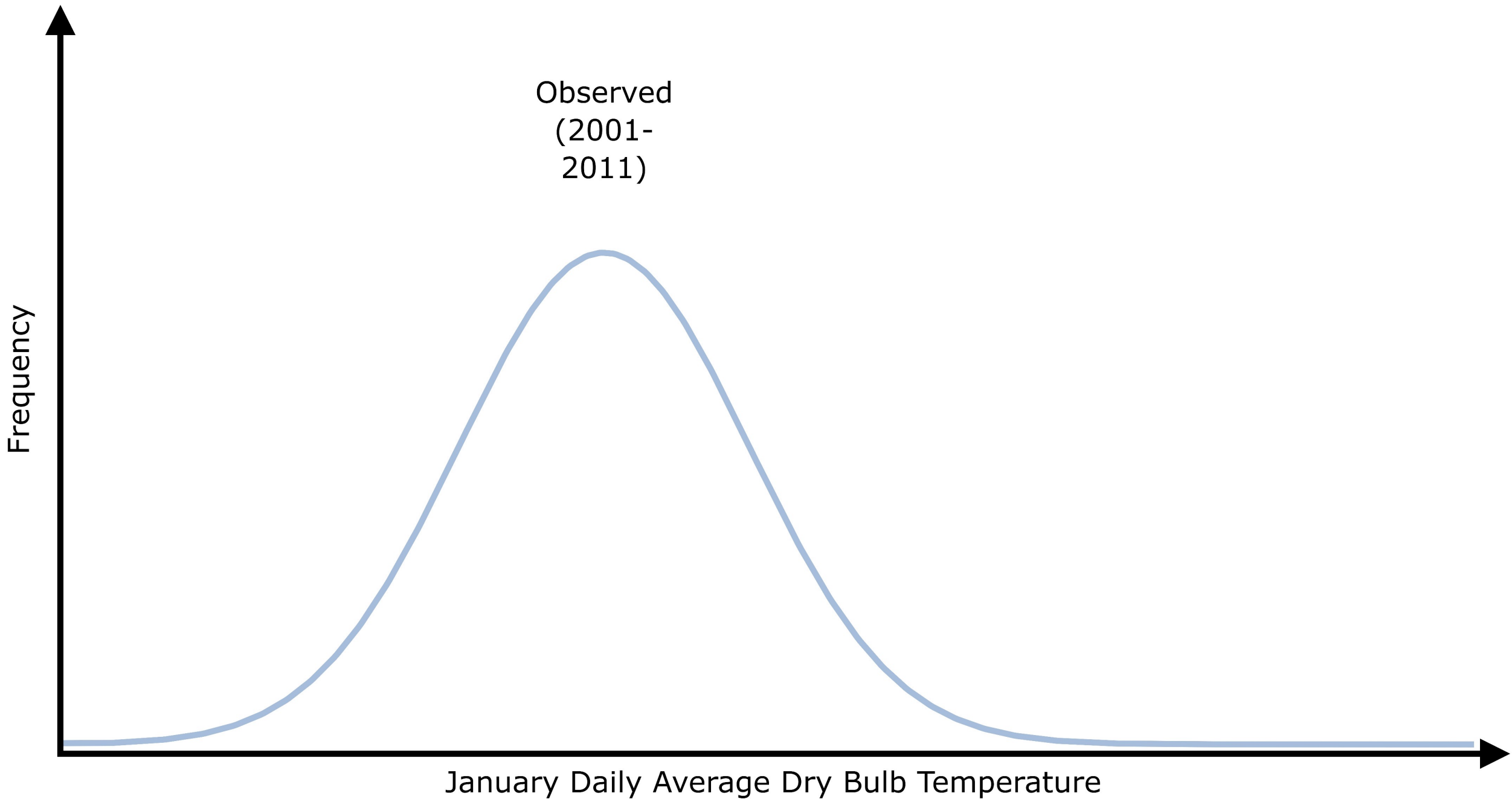
Source: Valentin Software GmbH

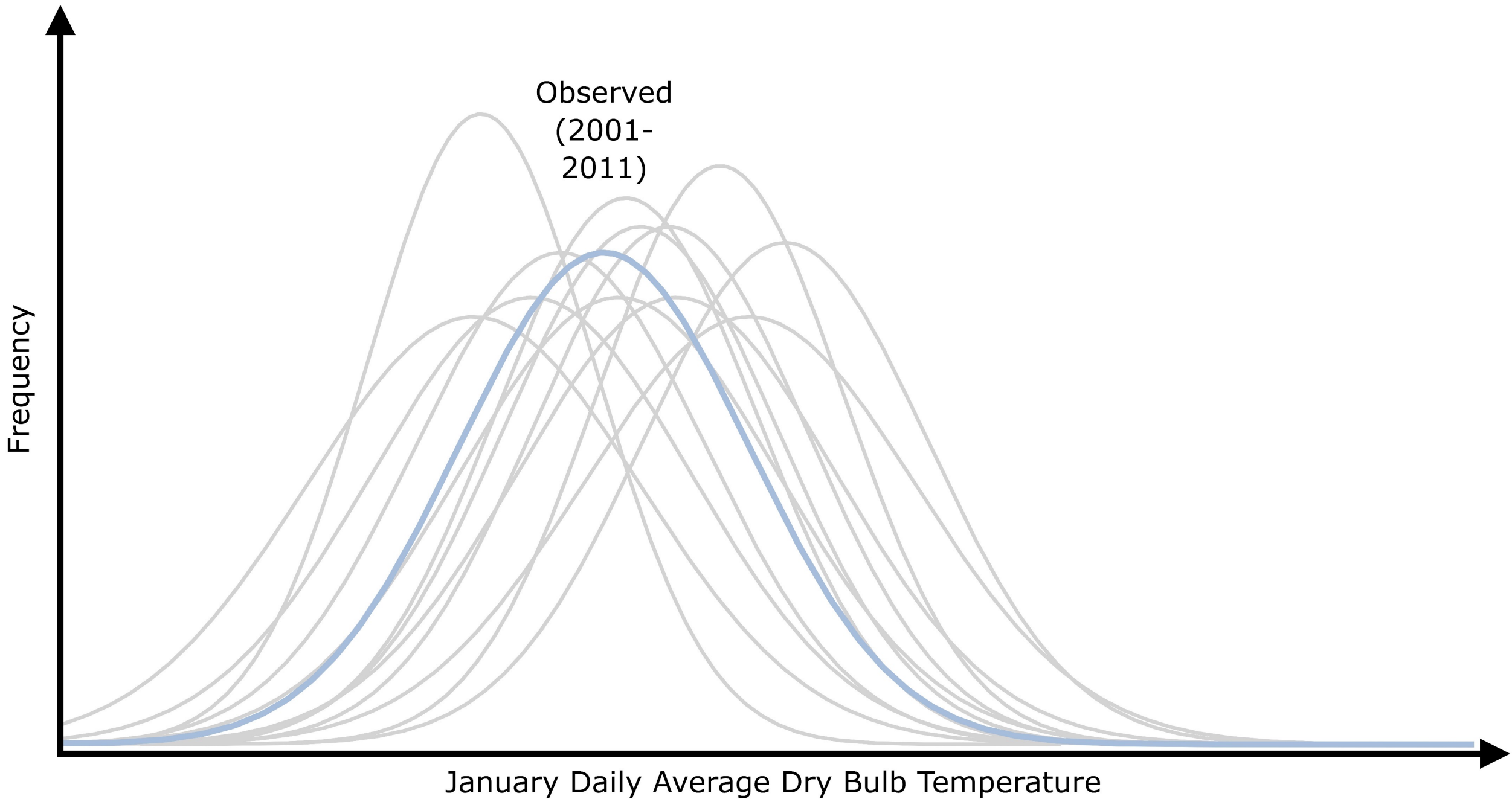
How is a Typical Year Selected to
Represent Each Month?

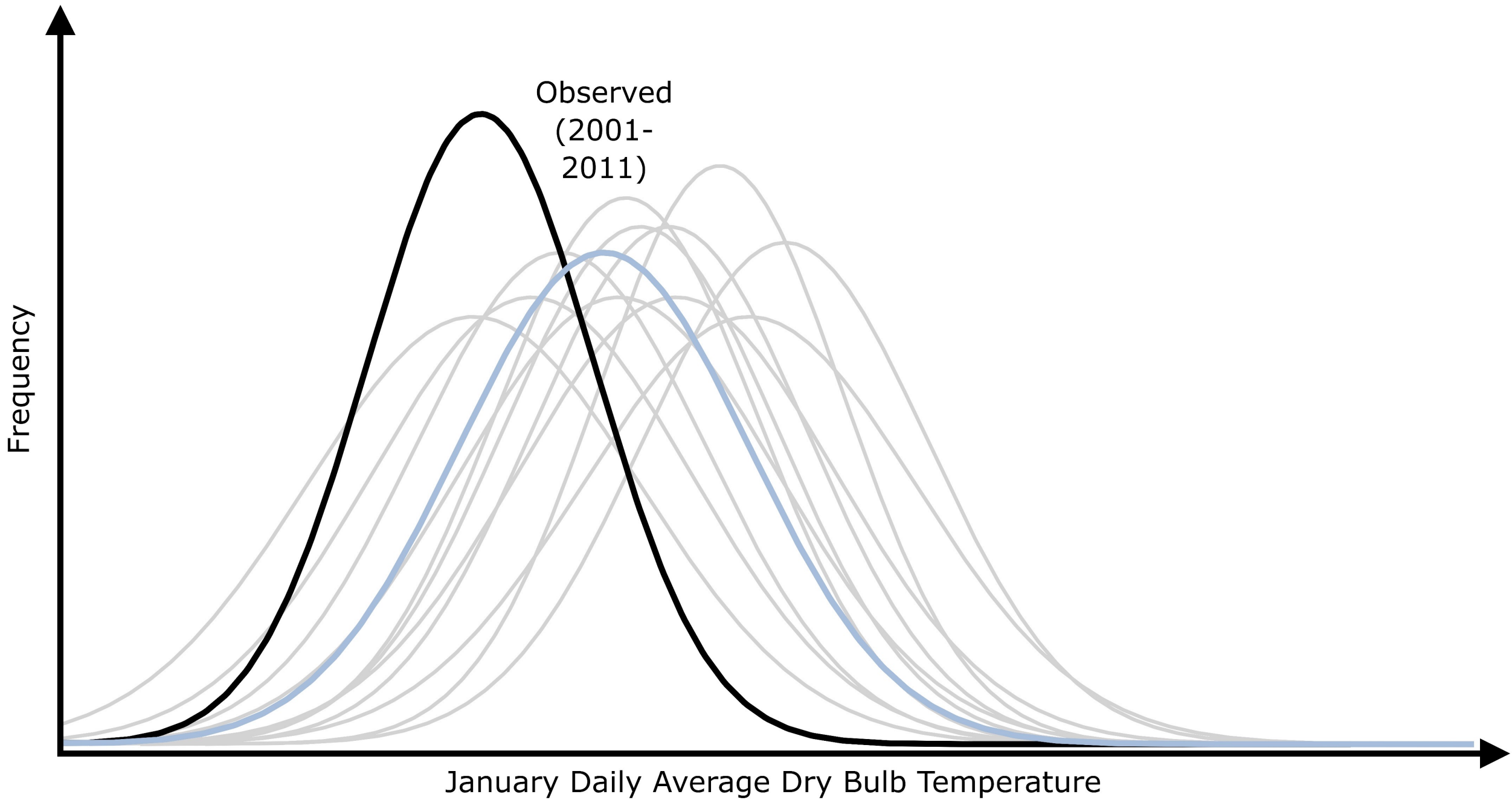


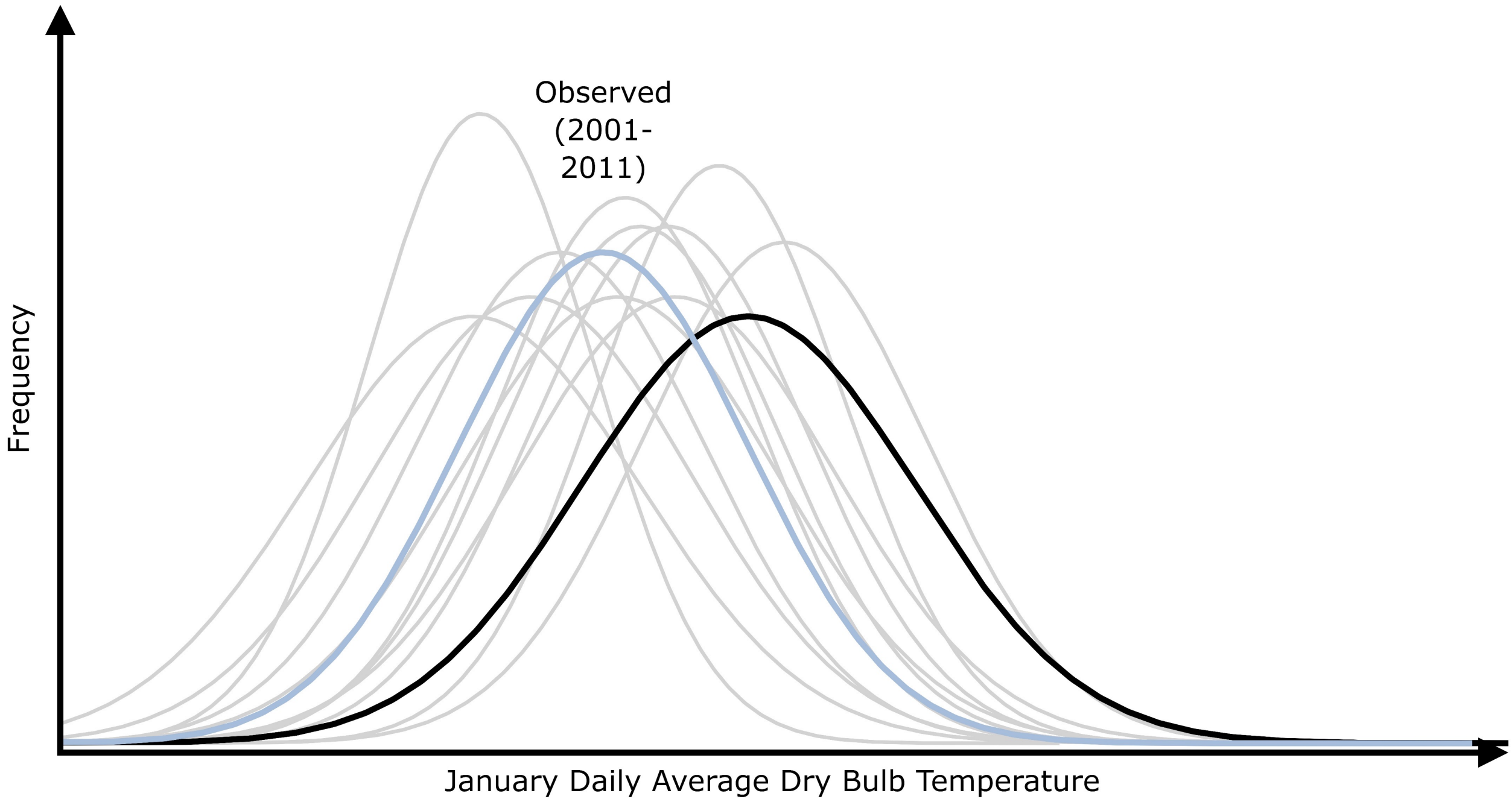
TMY

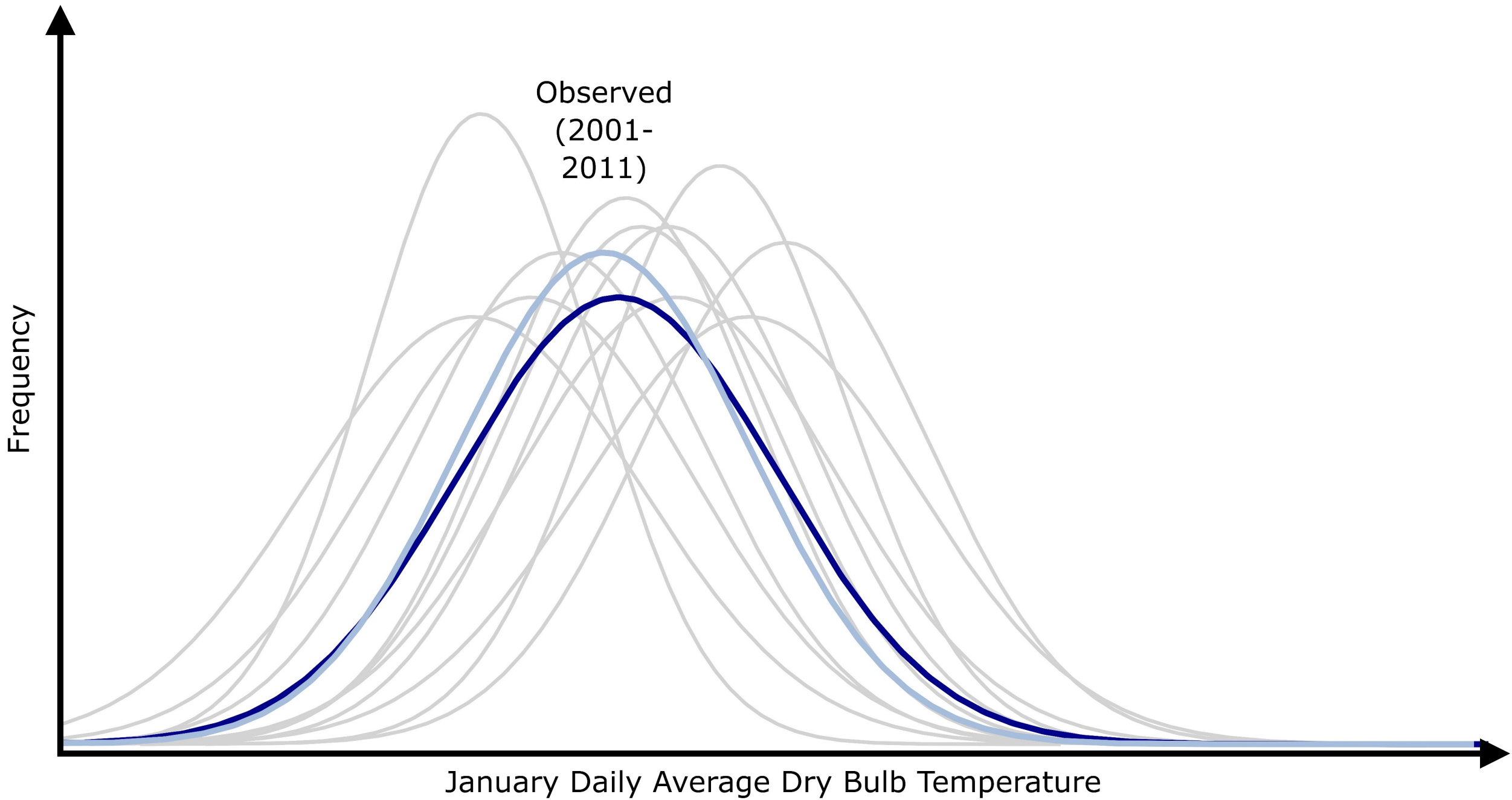
Source: Valentin Software GmbH



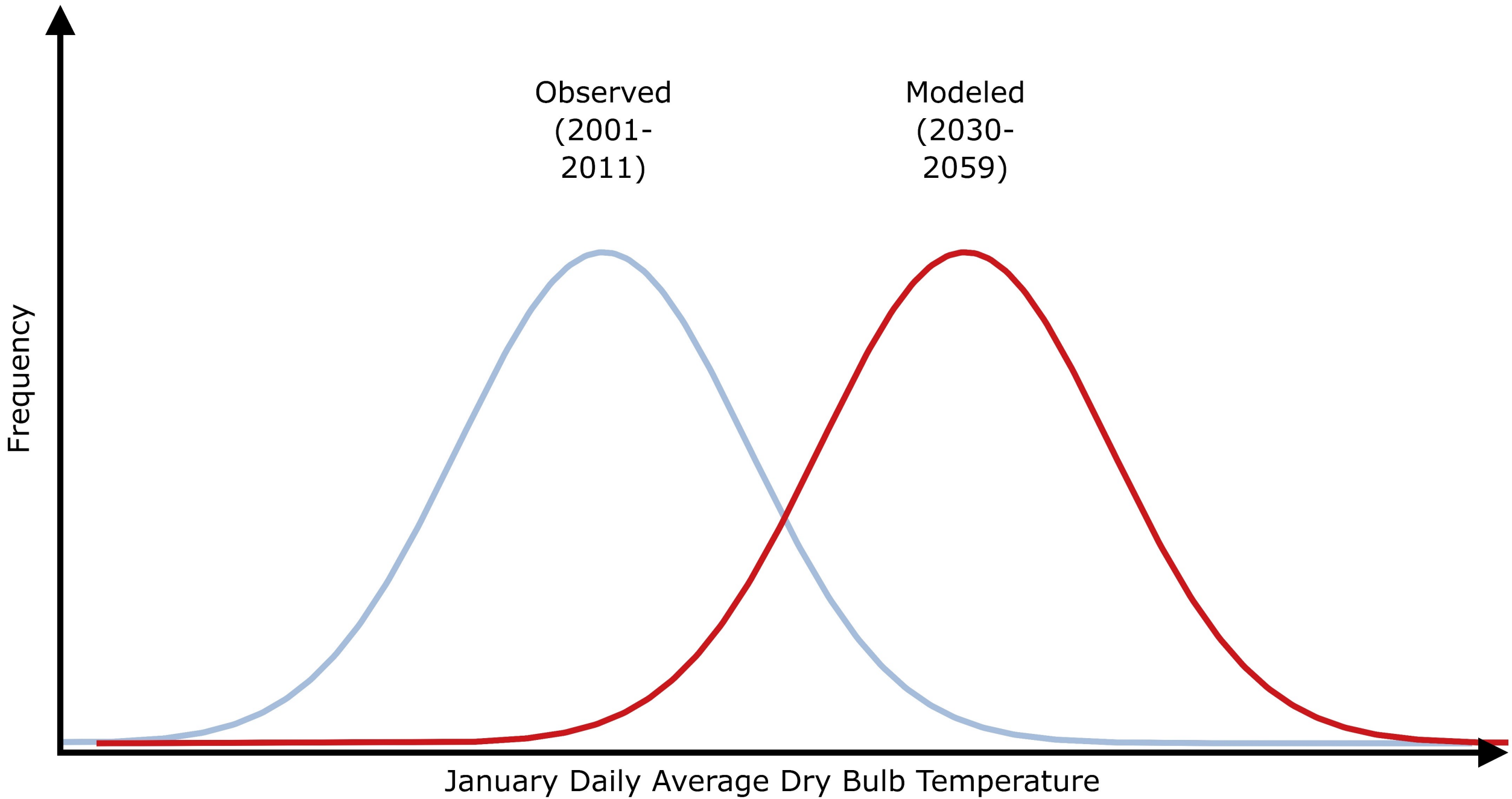


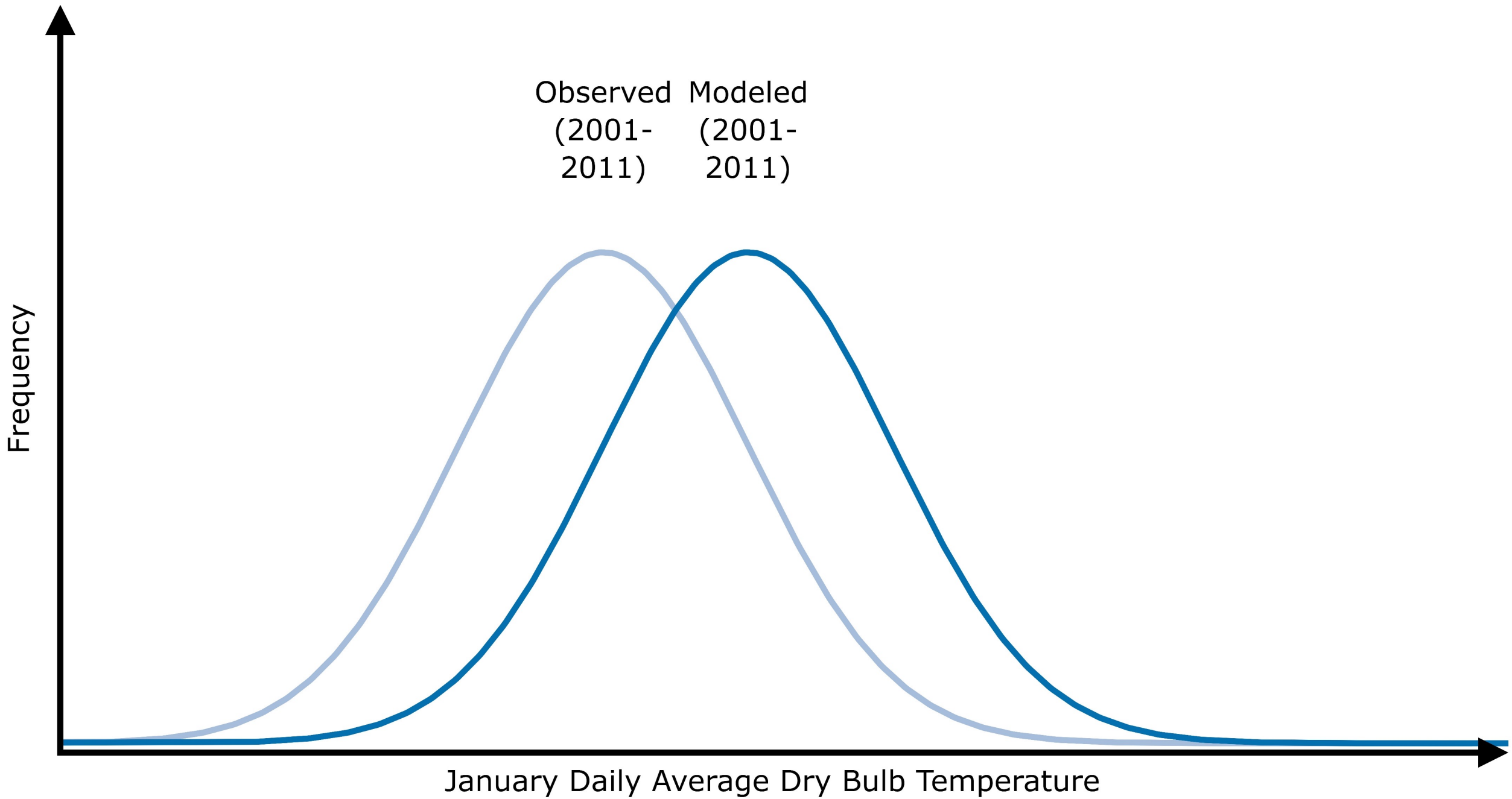


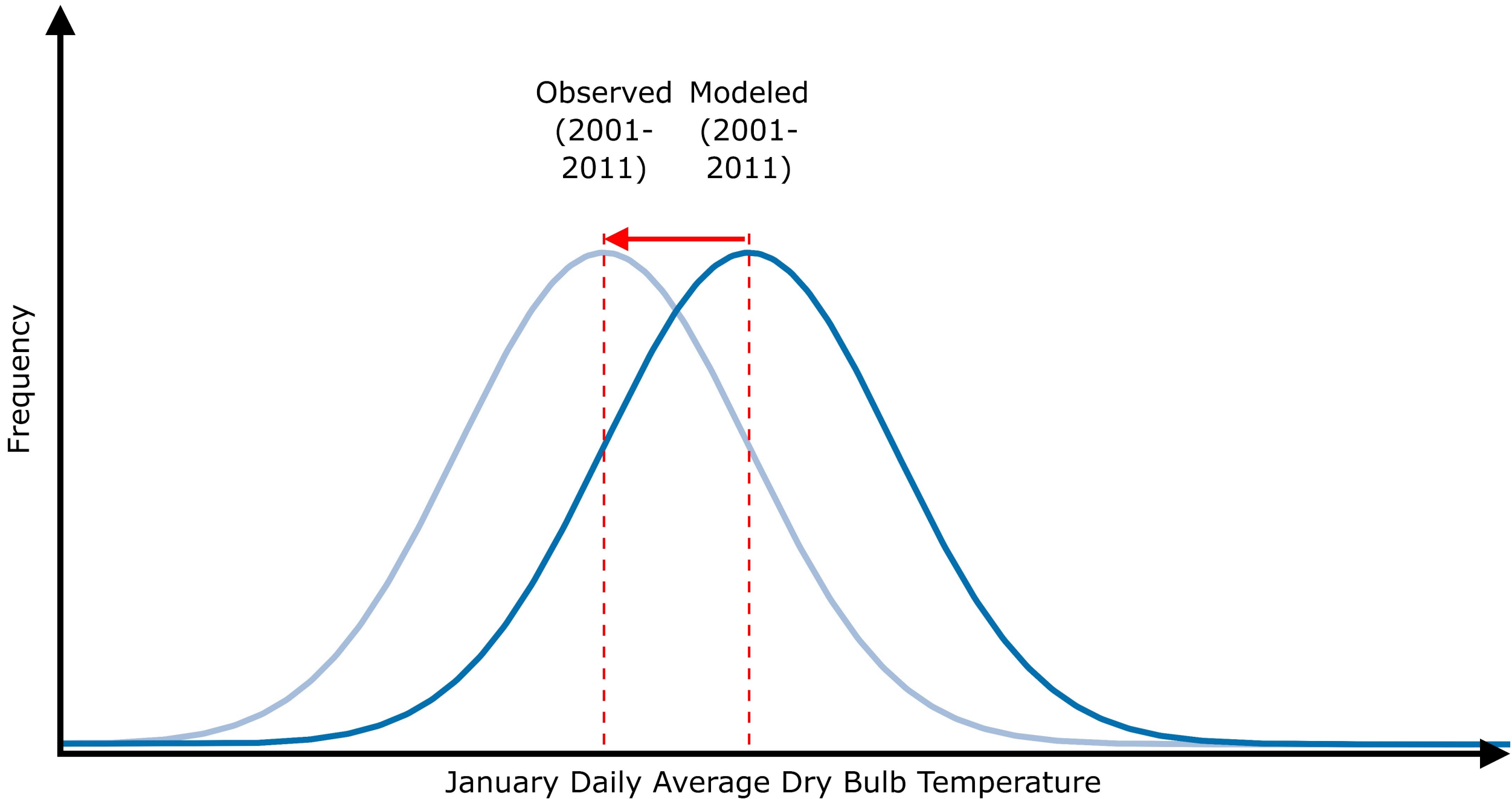


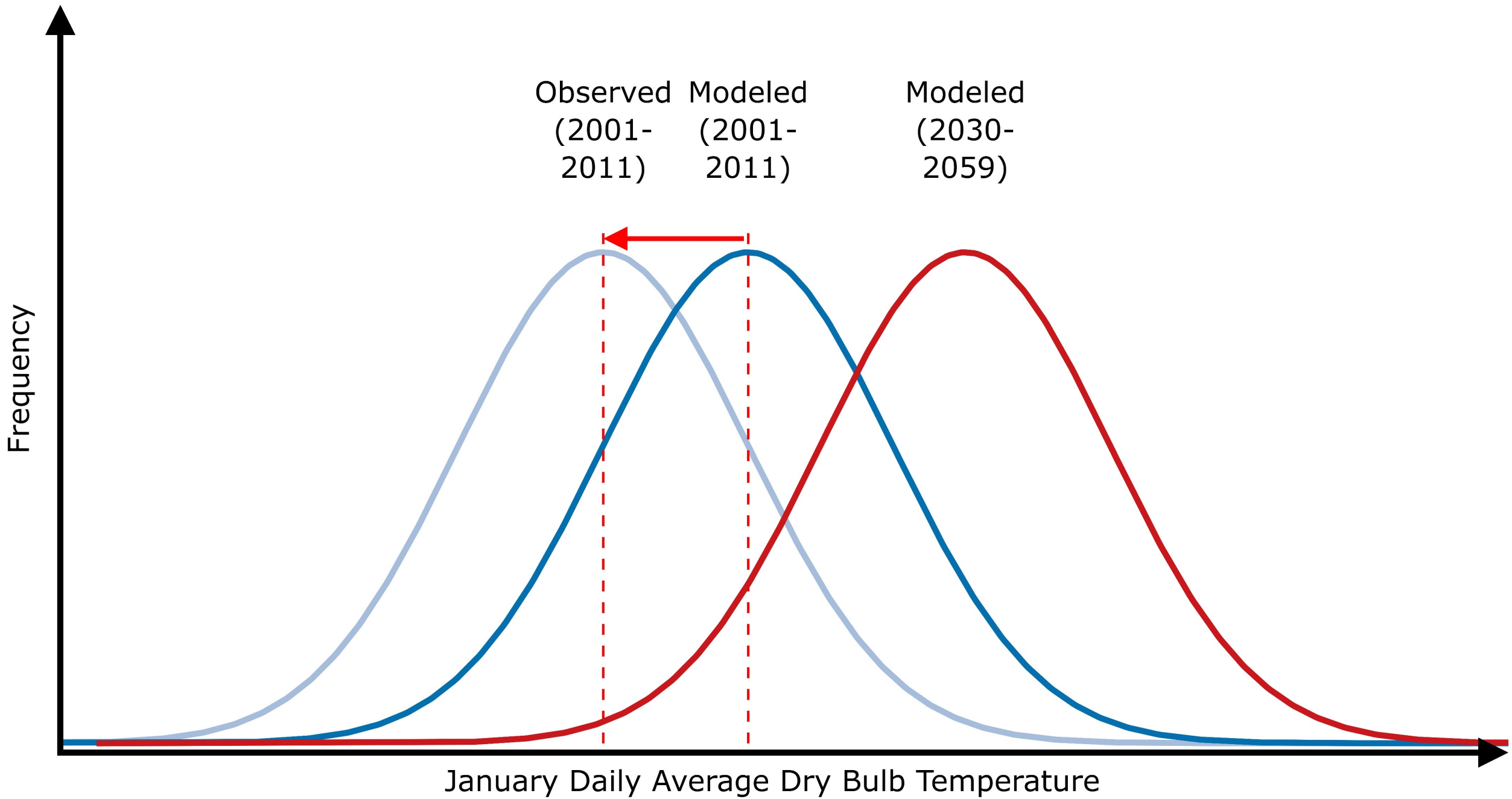


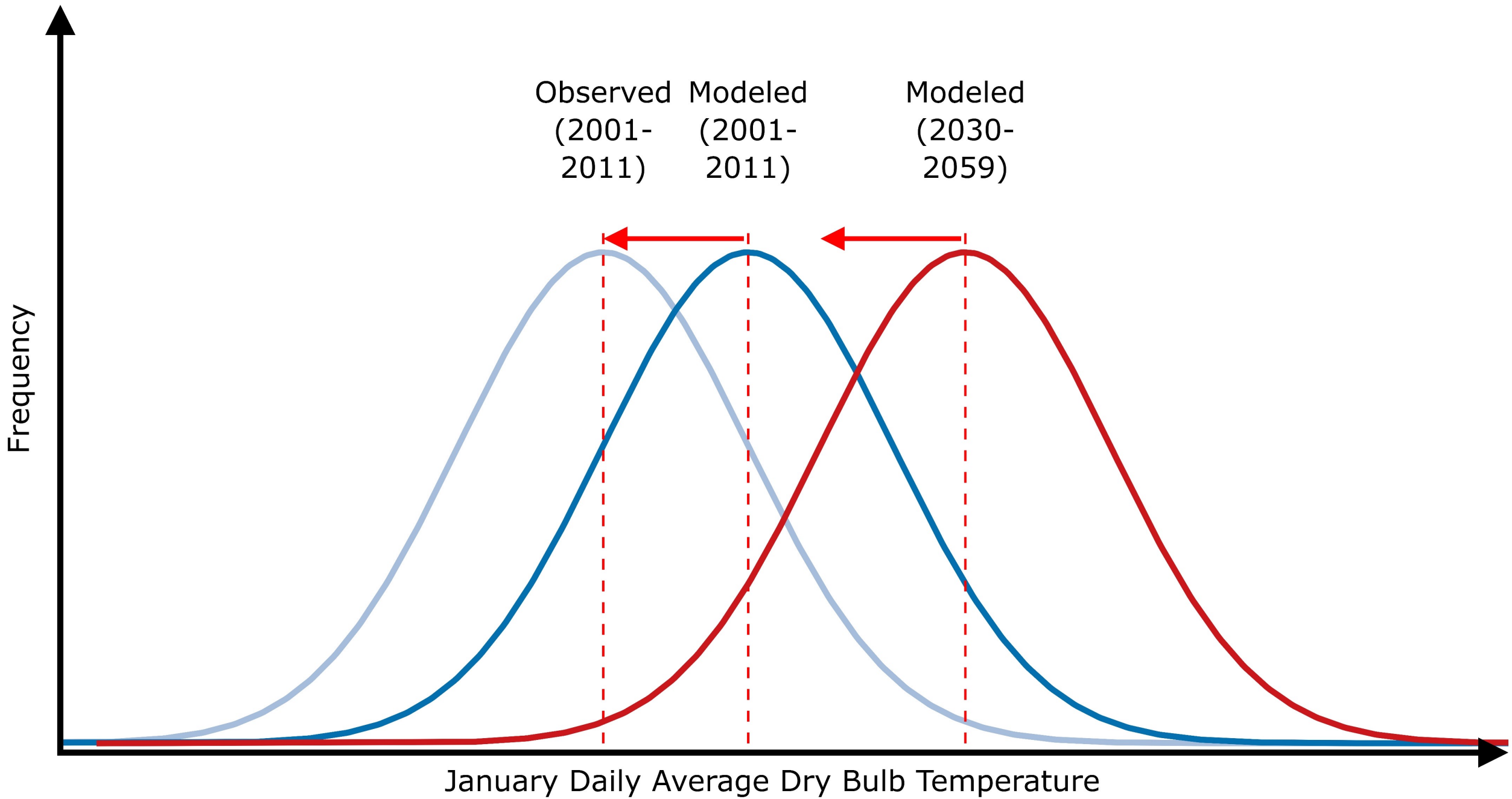
How is Future Weather Data Used to
Make a Weather File?

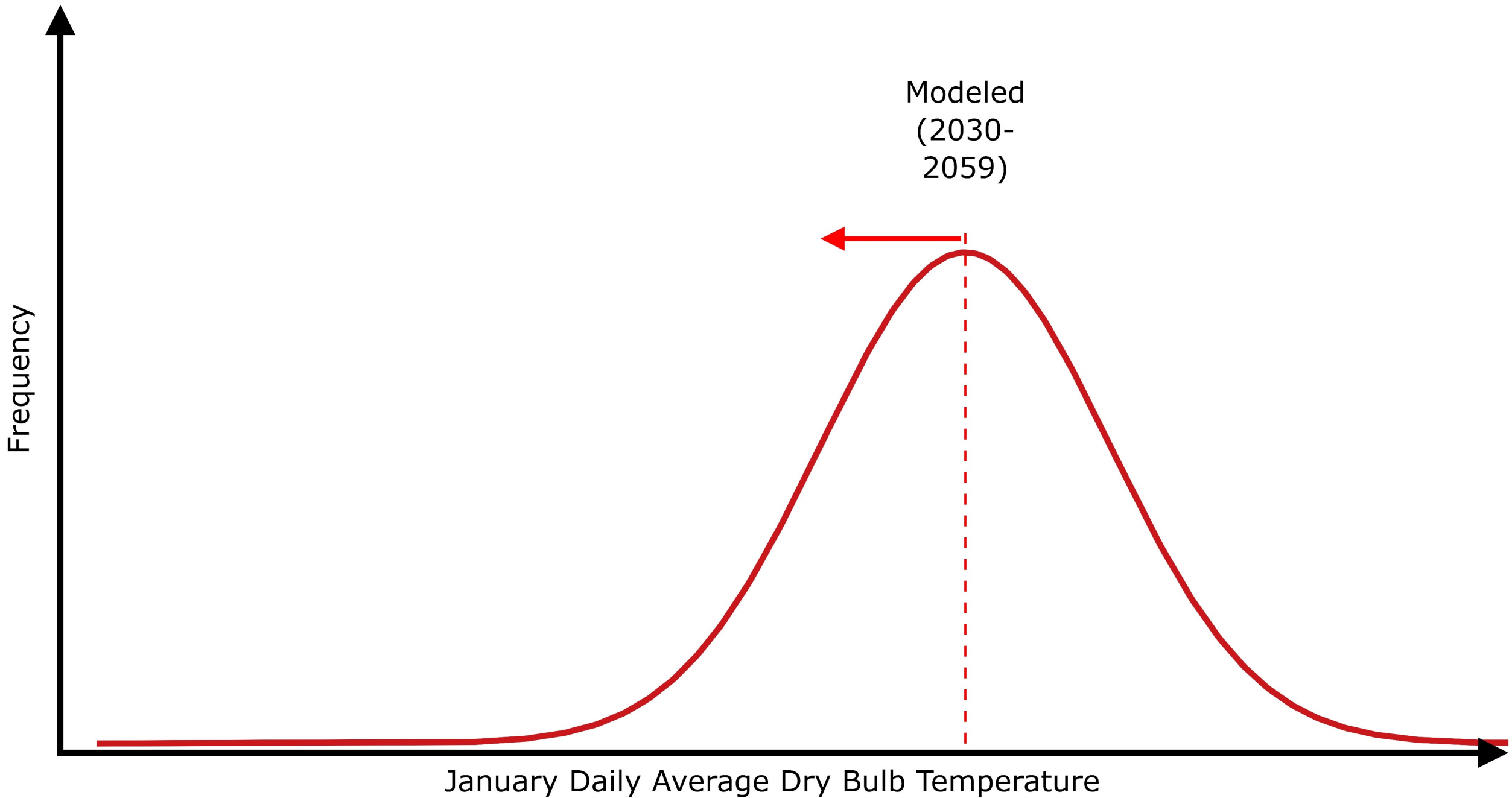


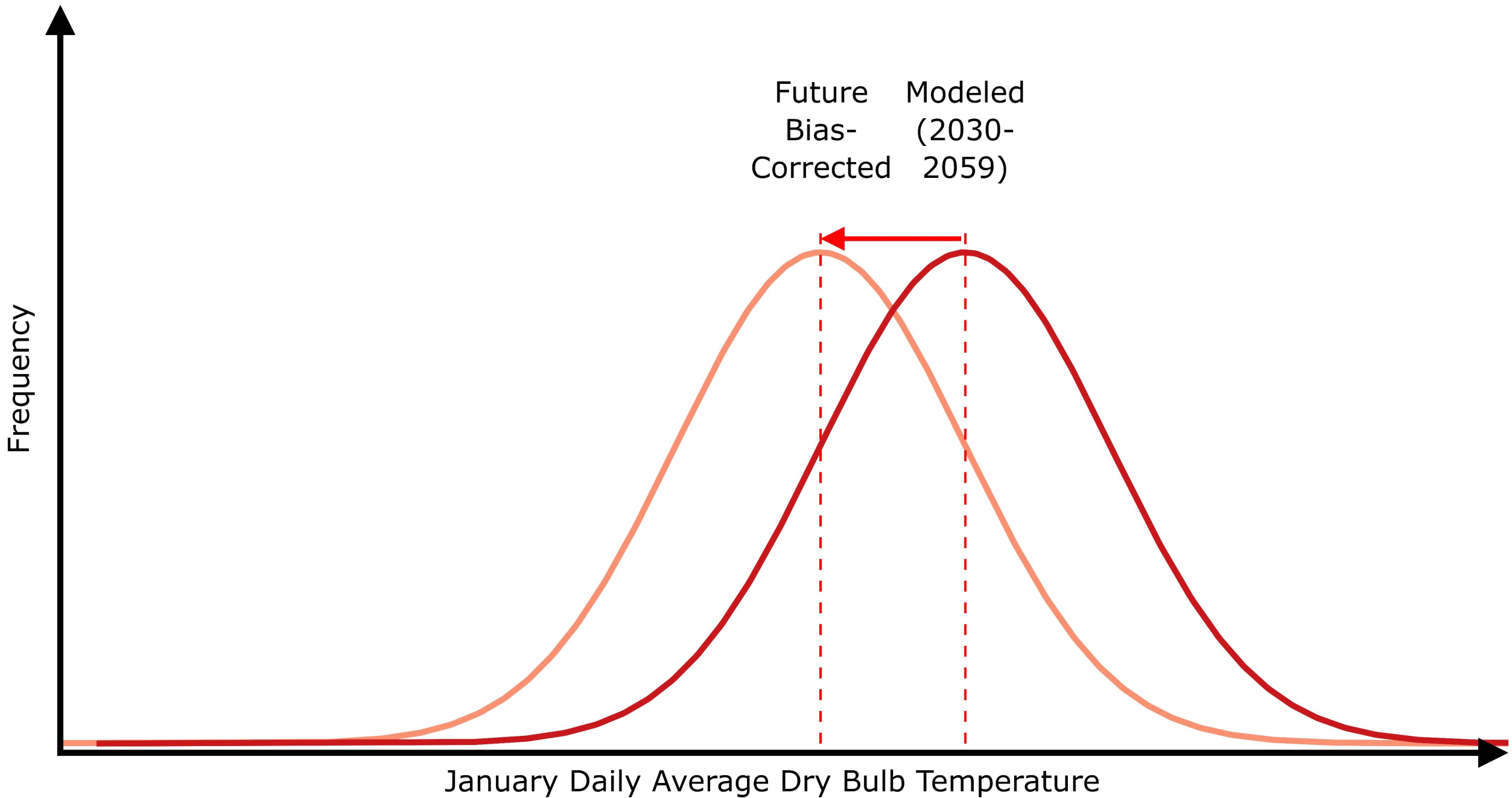


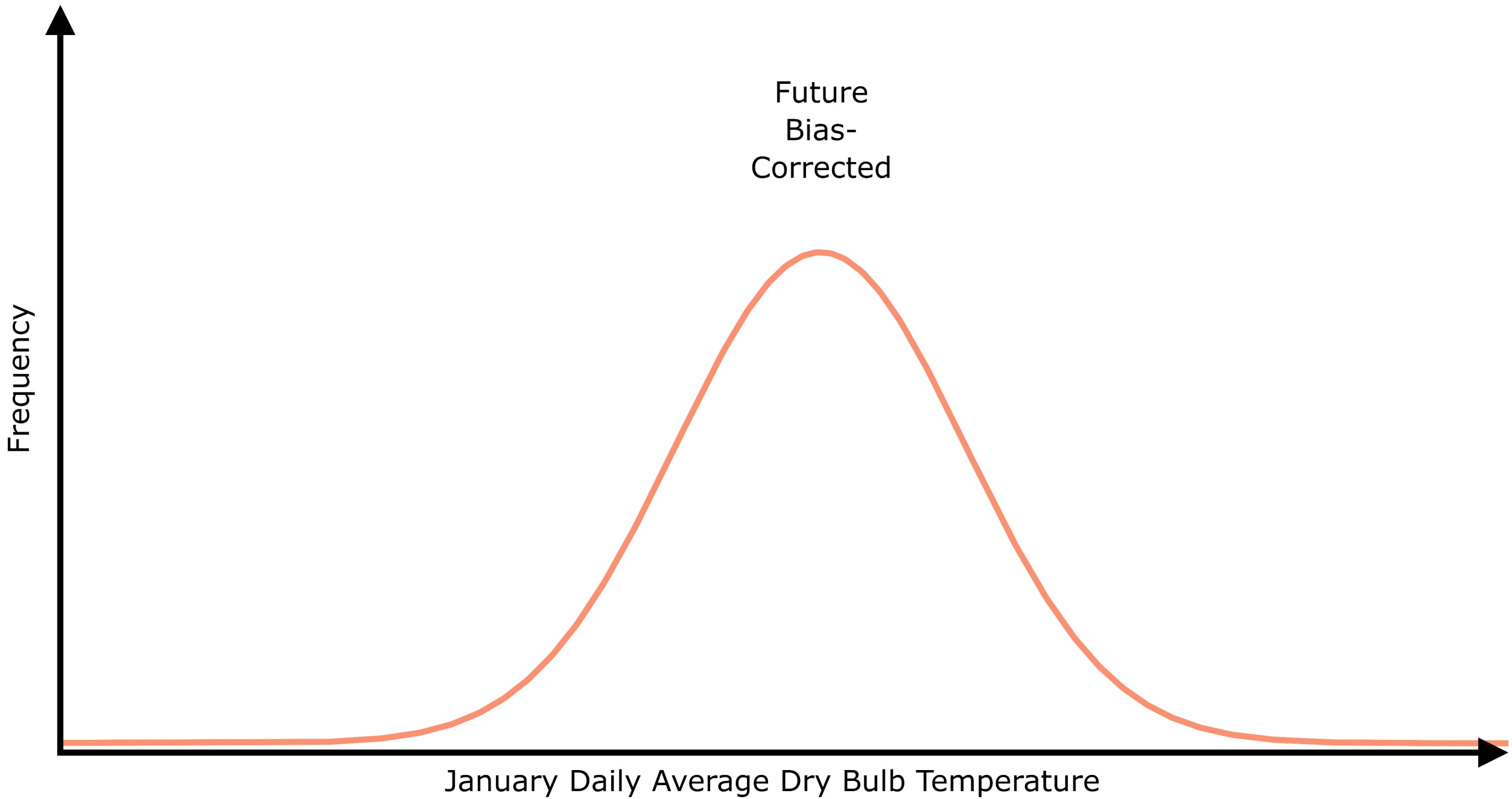


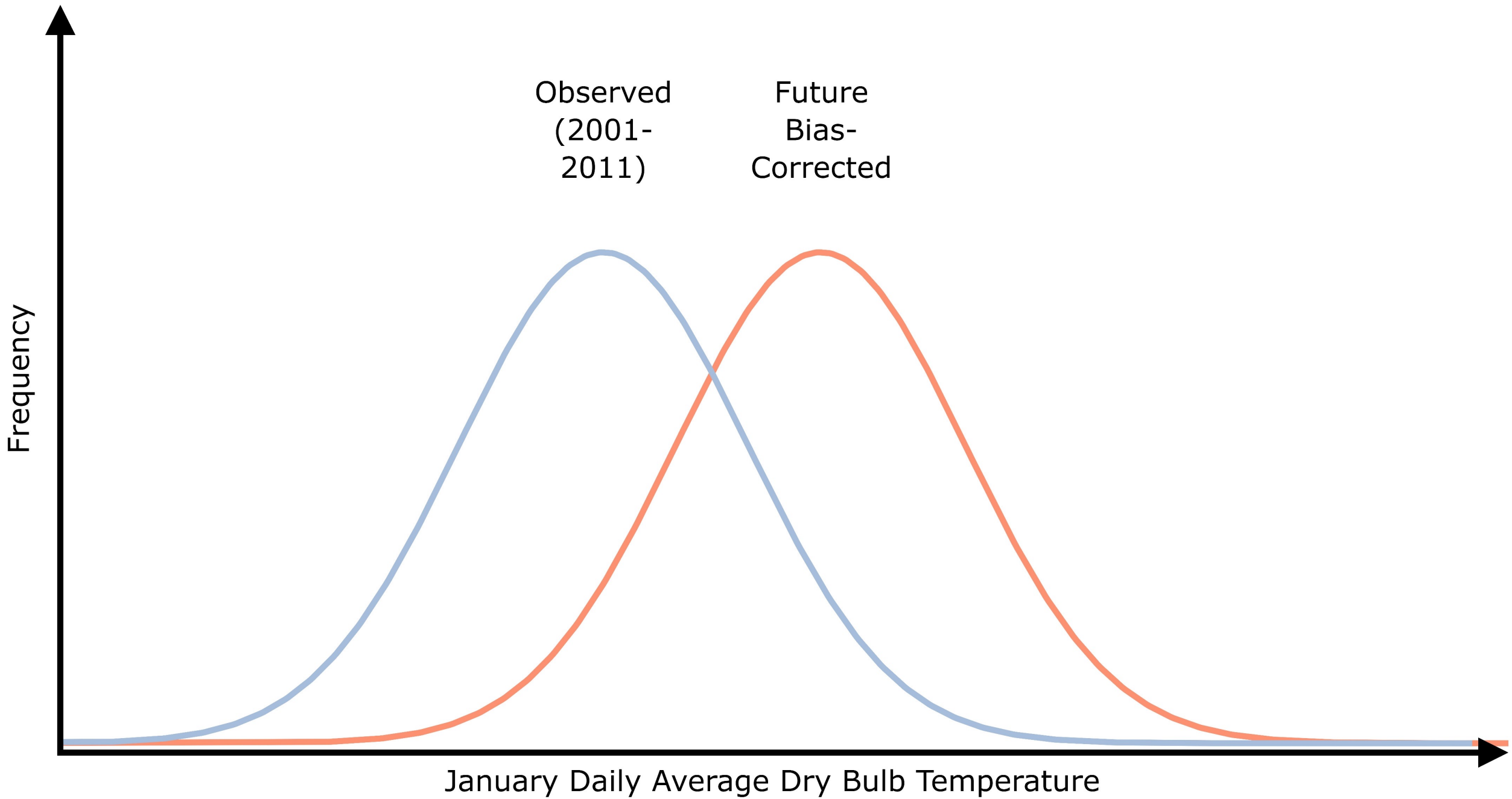


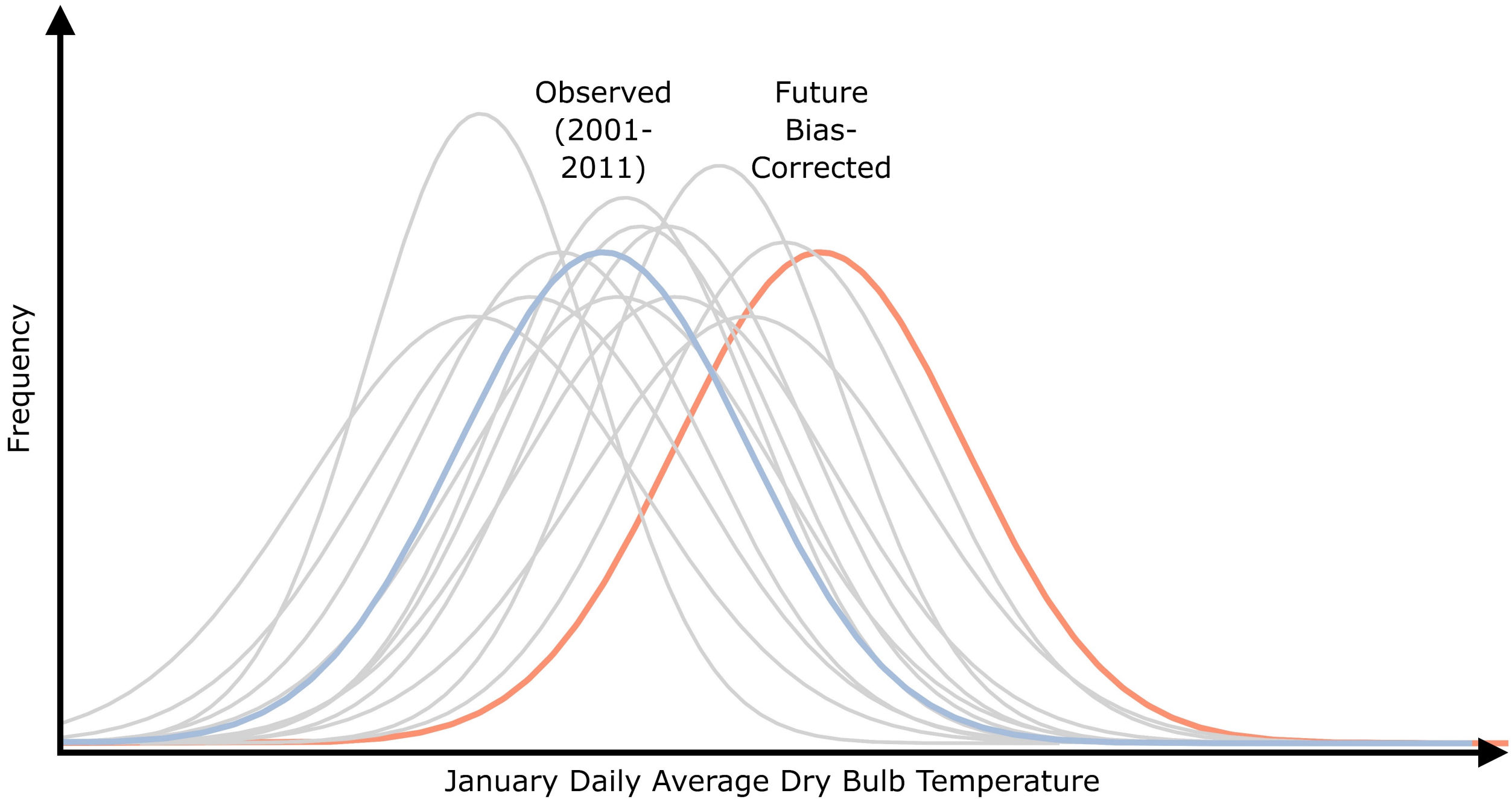


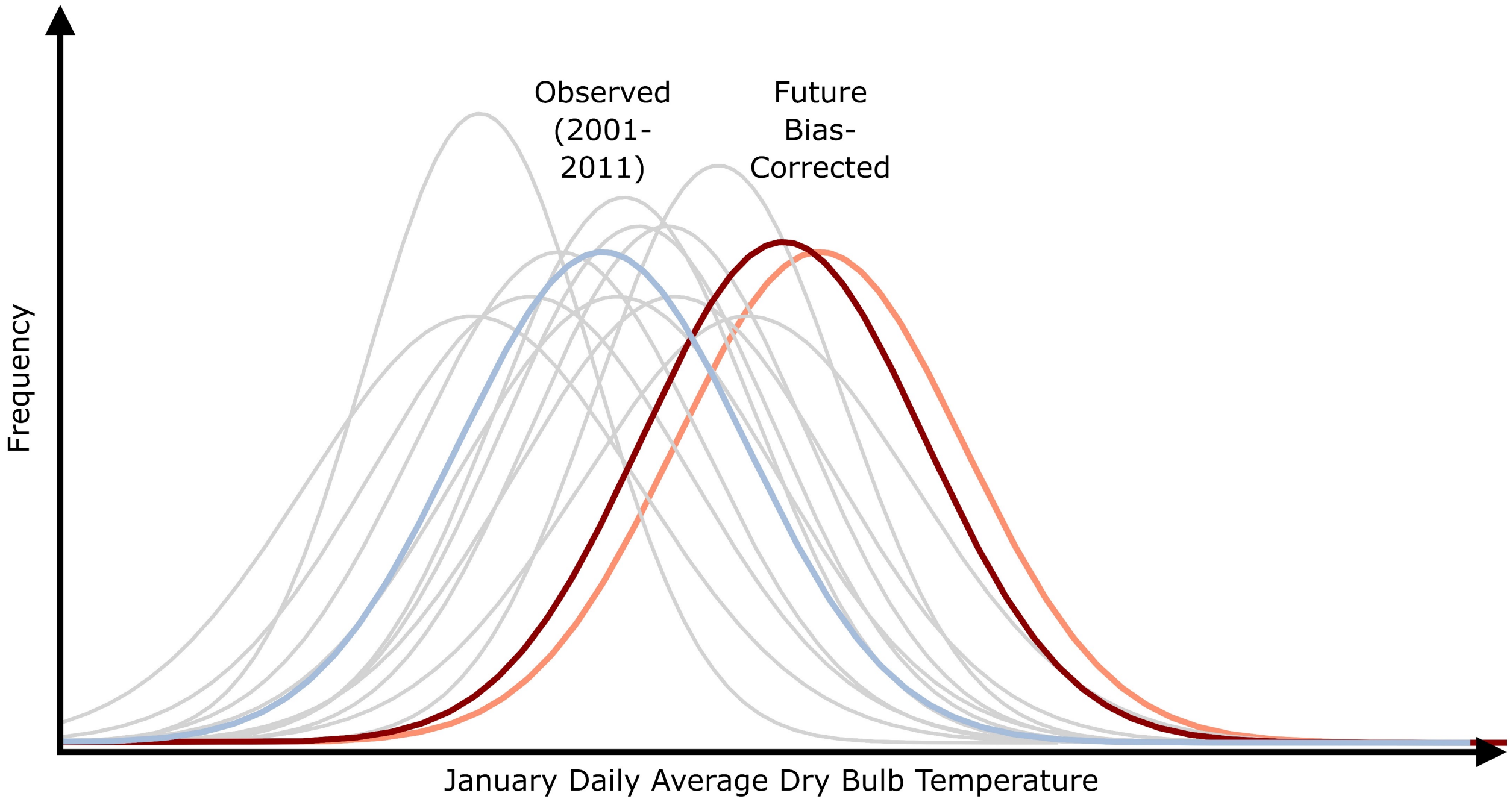


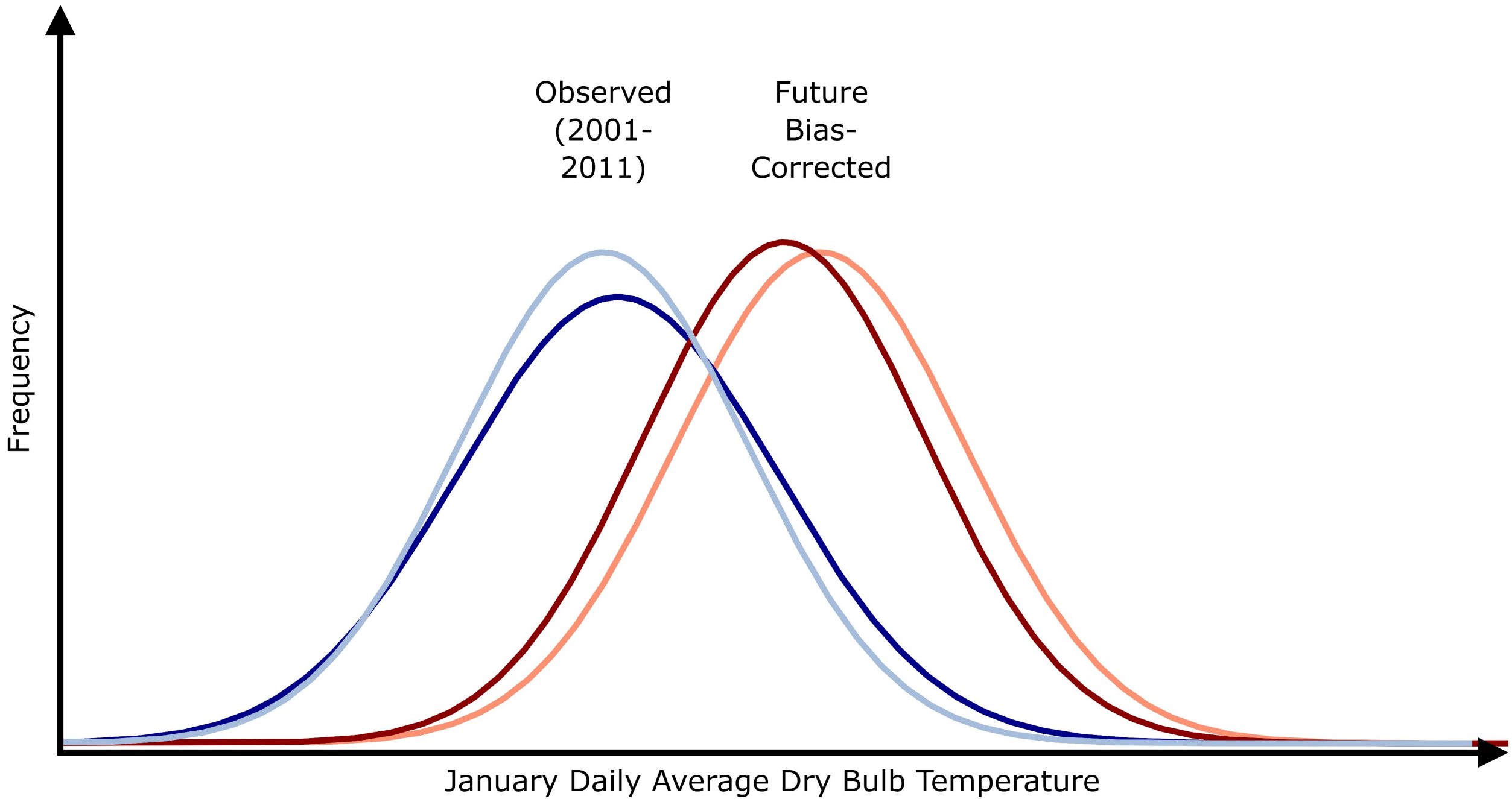


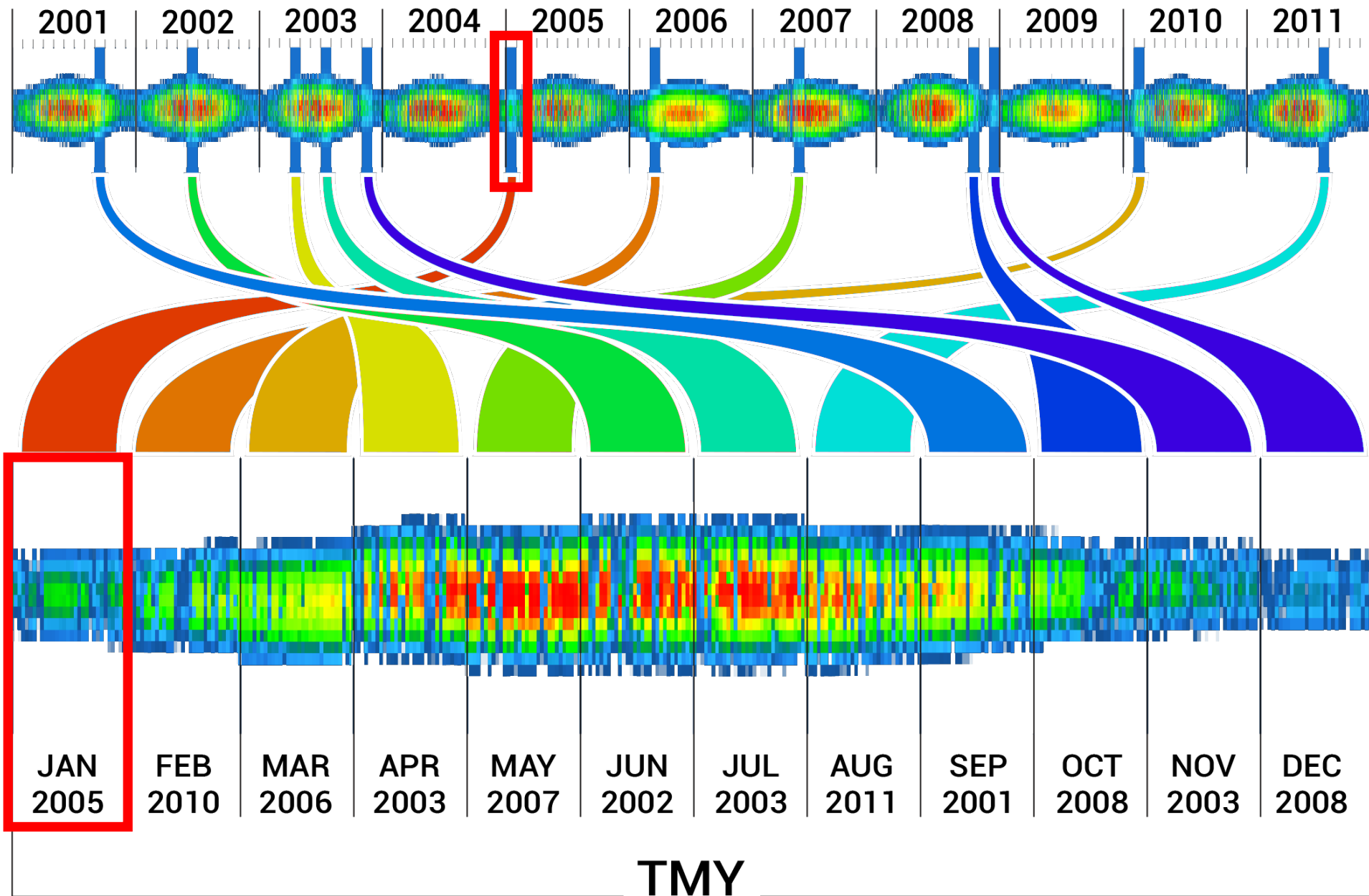








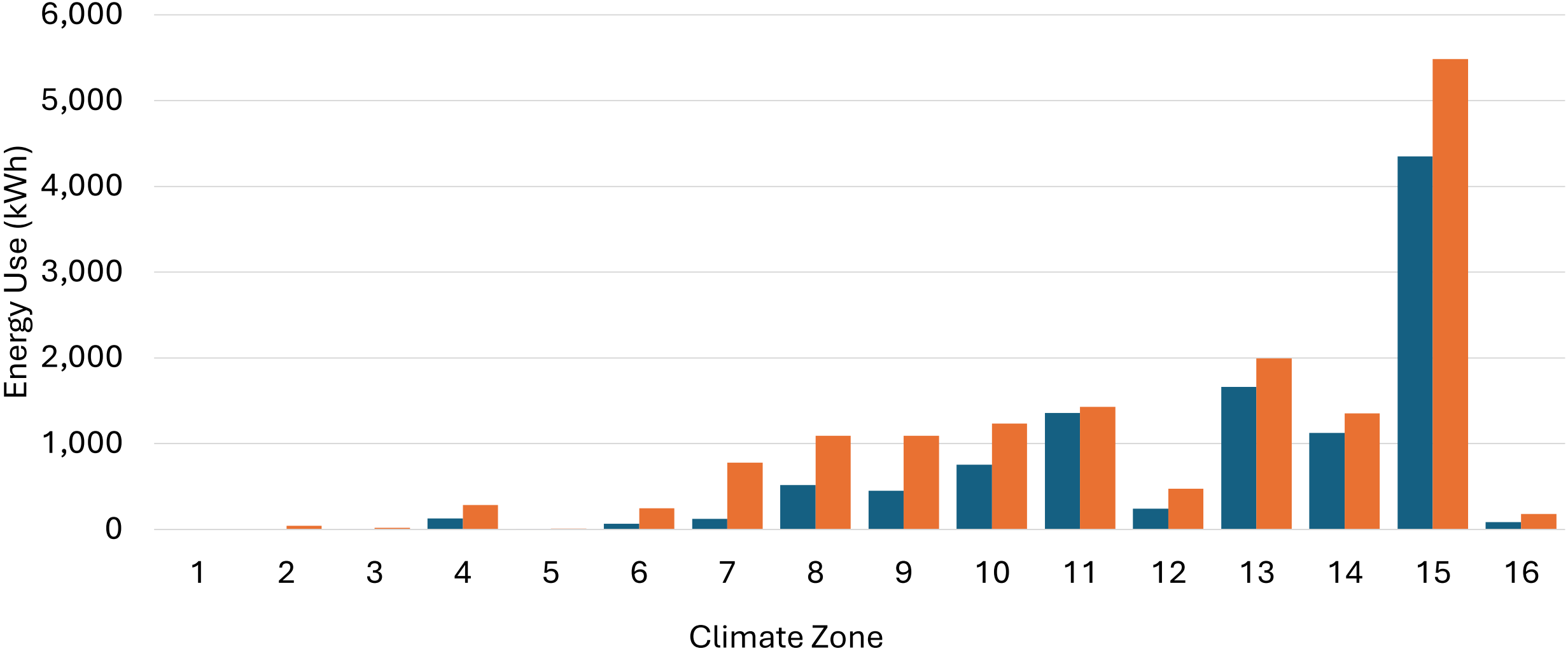




Source: Valentin Software GmbH

How Will The New Future Weather Files
Impact Simulations?

Cooling Energy Use Single Family Prototype



■ Title 24 2025
(Historical-Looking)

■ Title 24 2028
(Future-Looking)