

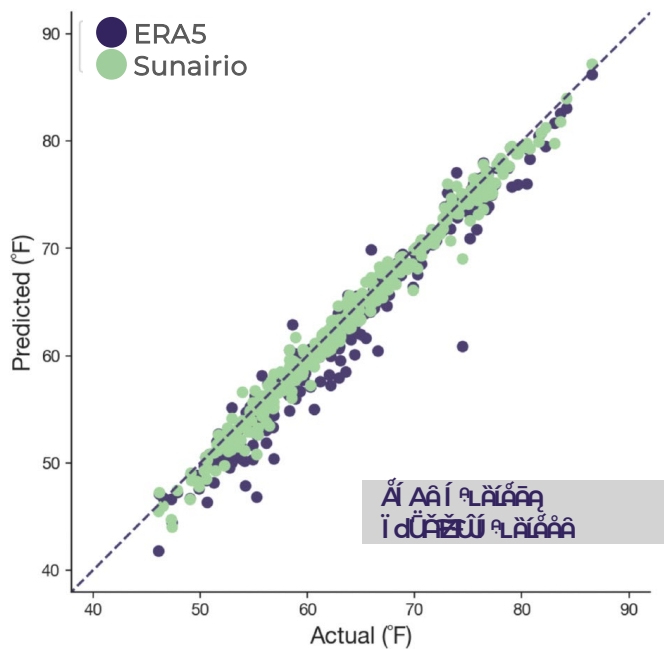
Overview

- C_{temp} , W_{wind} , S_{solar} temperature-wind-solar

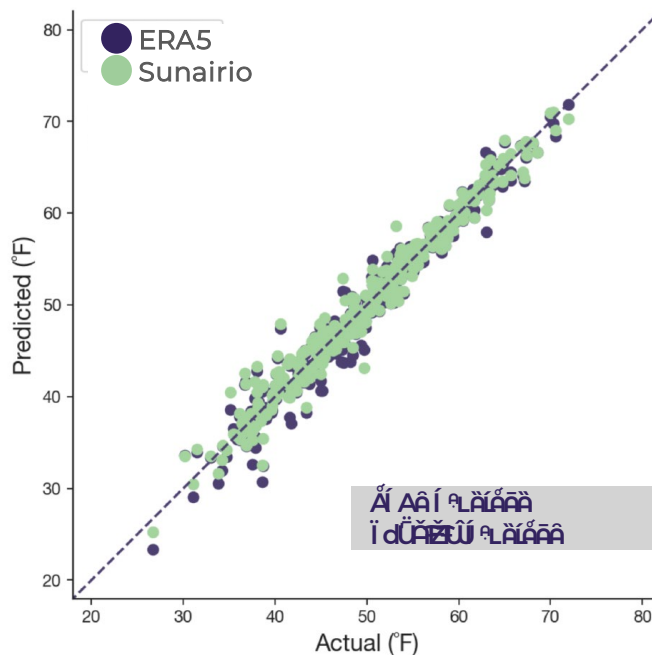
Temperature

Temperature Downscaling Validation

Hours 4 - 8

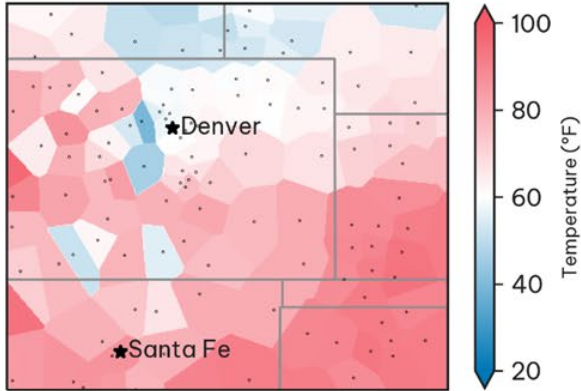


Hours 12 - 16

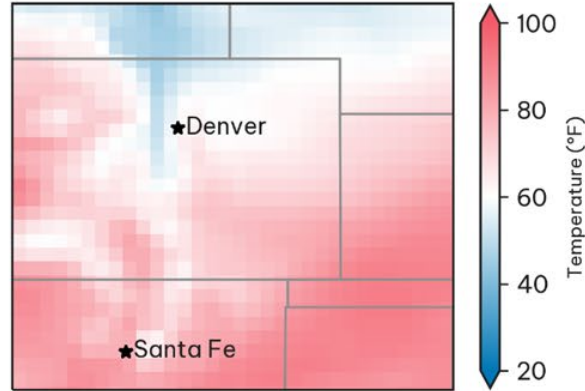


Temperature Downscaling Result

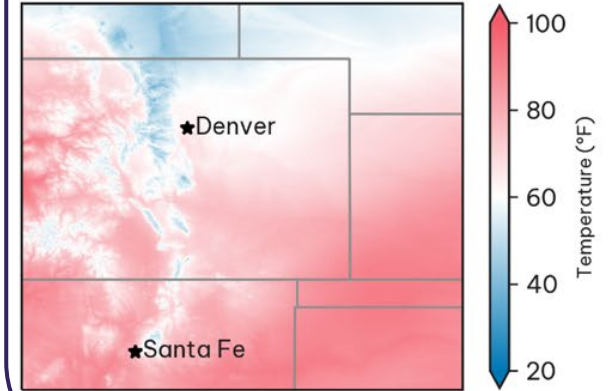
Nearest ASOS Temperature
(Available 1991* - Present)



Raw ERA5 Temperature
(Available 1950 - Present)



Sunairio Temperature
(Available 1950 - Present)

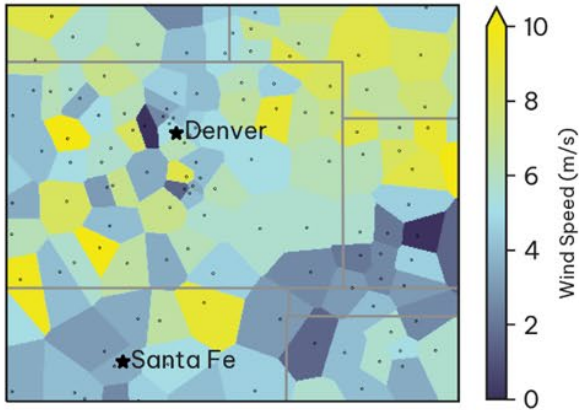


Autonomous and Adaptive Modeling and Simulation

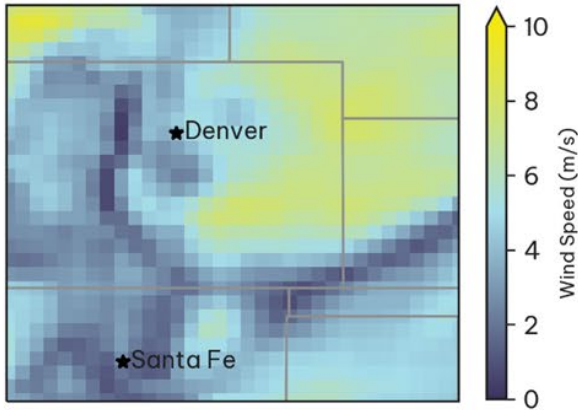
Wind

Wind Downscaling Result

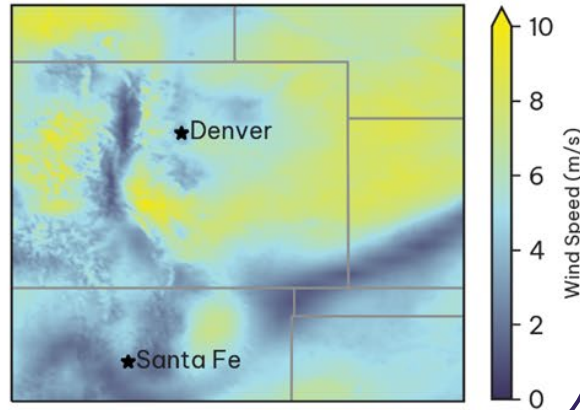
Nearest ASOS Wind Speed
(Available 1991* - Present)



Raw ERA5 Wind Speed
(Available 1950 - Present)



Sunairio Wind Speed
(Available 1950 - Present)

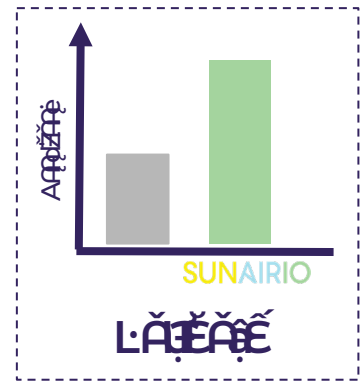


Irradiance

Example Grid Planning Use Case

Validation Methodology

- Goal: To determine the accuracy of the measurement method used in the study and to compare the results with the reference method.
- Method:
 - The study will use a validated method for measuring the concentration of the substance in the sample.
 - The results will be compared with the results obtained by the reference method.
- Benchmark:
 - The accuracy of the measurement method will be determined by comparing the results with the results obtained by the reference method.



Methodology: To determine the accuracy of the measurement method used in the study and to compare the results with the reference method.

Summary

	Sunairio High-resolution Earth Data		
	Temperature, dewpoint	Wind speed + direction	Irradiance (GHI, DNI, DHI)
Historical date range	1979-2020	1979-2020	1979-2020
Spatial resolution	1 km	1 km	1 km
Temporal resolution	1 hour	1 hour	1 hour
Height above ground	2 m	2 m	2 m
Geographic domain	Global	Global	Global
Update frequency	Hourly	Hourly	Hourly
Continuously updating?	Yes	Yes	Yes
Access	Open Access	Open Access	Open Access

ឧបករណ៍វាស់ស្ទង់អាកាសធាតុដែលមានភាពងាយស្រួល និងមានតម្លៃទាប ដែលអាចដំឡើងបាននៅទូទាំងពិភពលោក

THANK YOU!

Rob Cirincione

