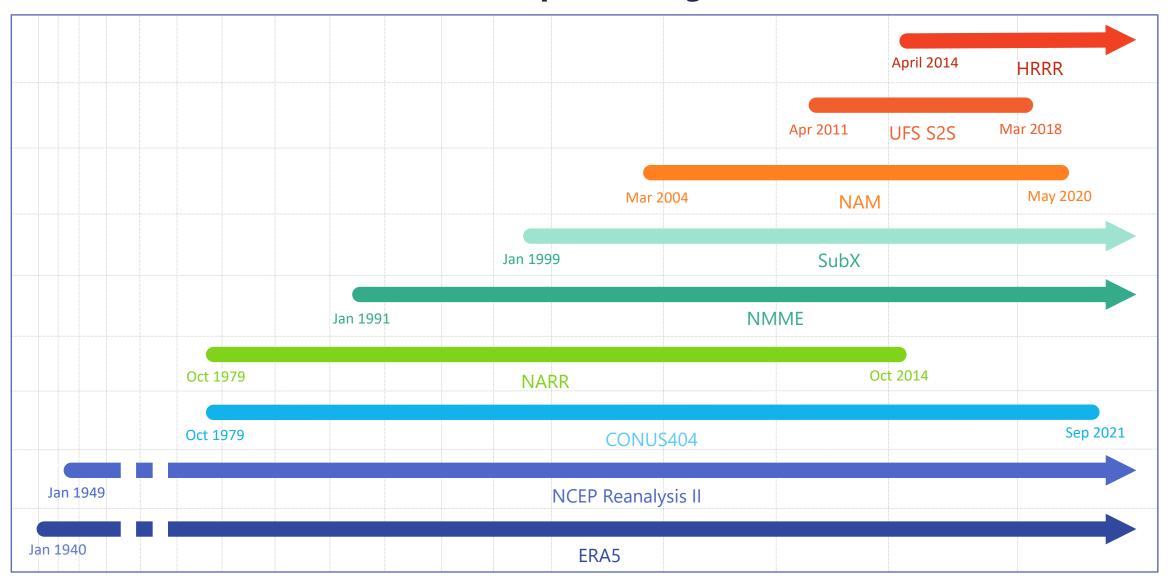
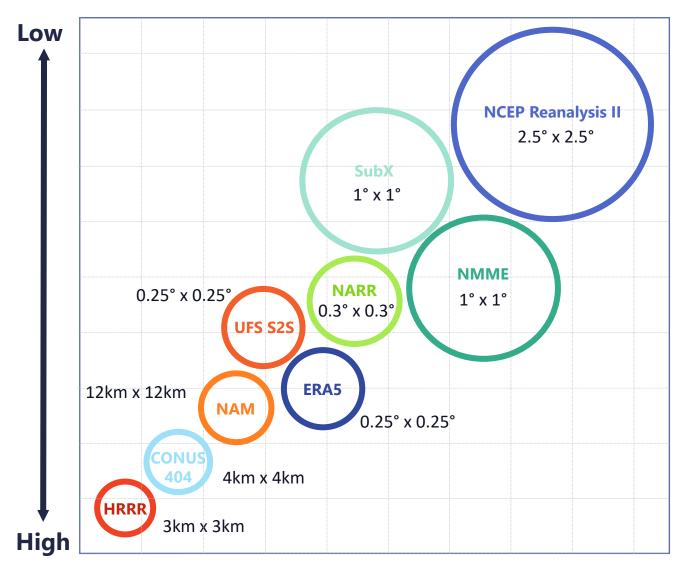
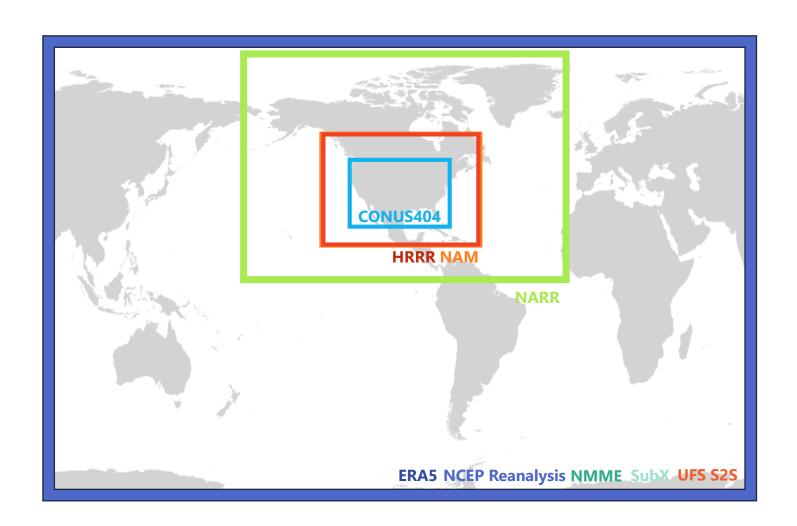
Name	Dates Available	Temporal Resolution	Spatial Resolution	Domain	Projection
CONUS404	October 1979–September 2021	Hourly	4km x 4km (≈ 0.036°)	CONUS	Latitude/longitude
UFS S2S	Apr 2011-Mar 2018	Hourly; initialized 2x monthly, out to 35 days	0.25° x 0.25°	Global	Latitude/longitude
ERA5	1940 to Present	Hourly	0.25° x 0.25°	Global	Latitude/longitude
NCEP Reanalysis	1949 to Present	4x Daily	2.5° x 2.5°	Global	Latitude/longitude
NAM Reanalysis	Mar 02, 2004–May 15, 2020	4x Daily	12km x 12km (~0.108°)	North America	Lambert Conformal
NARR Reanalysis	Jan 01, 1979- Oct 02, 2014	8x Daily	0.3° x 0.3° (~32km)	North America	Lambert Conformal
HRRR Reanalysis	2015 to Present	Hourly	3km x 3km (~0.027°)	CONUS	Lambert Conformal
NNME Retrospective	1991 to Present	Daily	1° x 1° ()	Global	
SubX(C) Retrospective	1999 to Present	Daily	1° x 1° ()	Global	

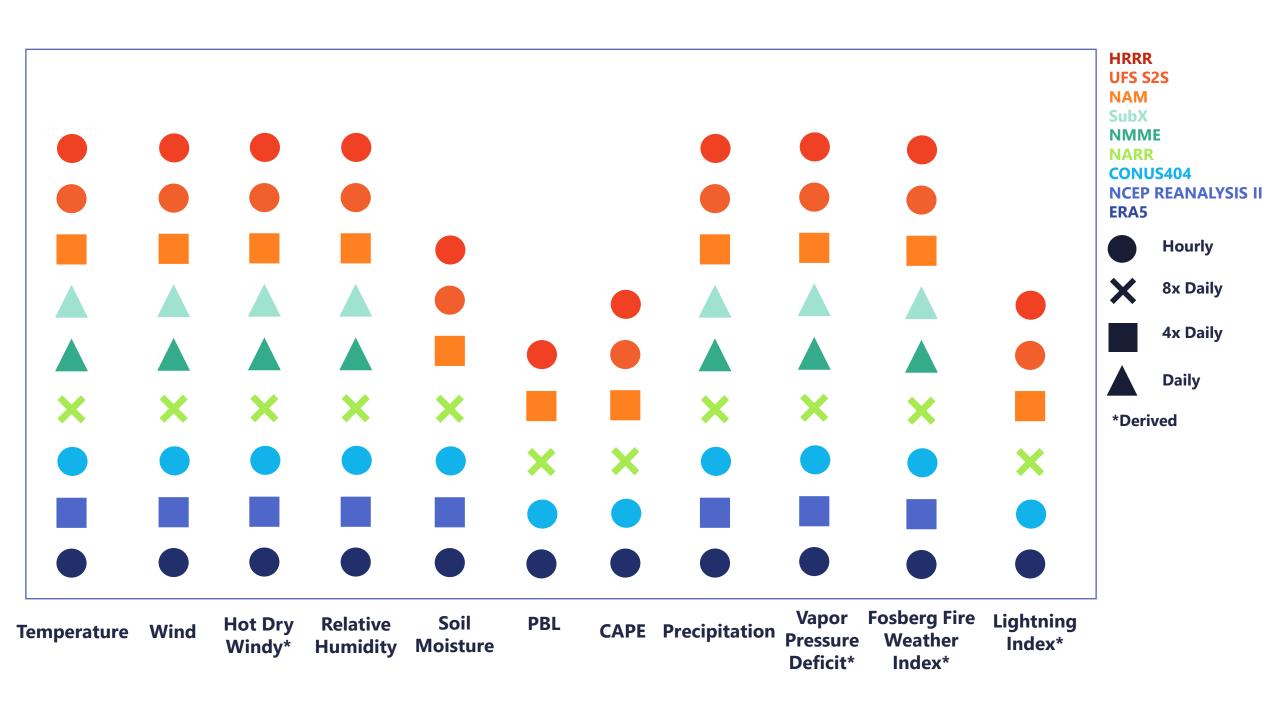
Temporal Range

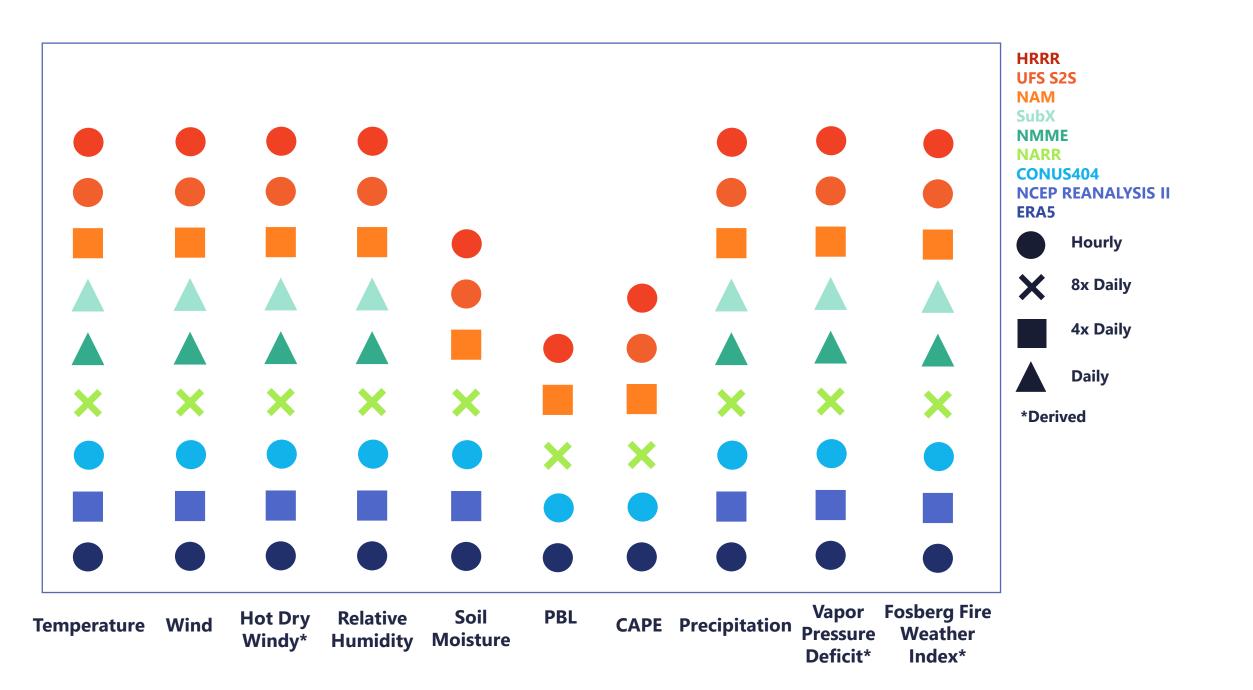


Resolution





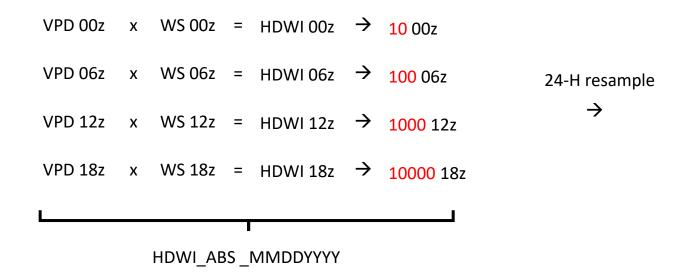




Calculation overview

VPD = vapor pressure deficit in Pa
WS = wind speed in m/s
= not-to-scale fake value for example

For a given dataset, for a given day, MM-DD-YYYY, with 4 timesteps:



 $HDWI_MAX_MMDDYYYY = 10000$

HDWI MIN MMDDYYYY = 10

 $HDWI_AVG_MMDDYYYY = 2777.5$