

## Useful Links for WxChallenge Competition

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Here is some useful information to help forecast in the WxChallenge. Remember we are forecasting for high temp, low temp, wind speed (in knots), and the amount of rain (in inches) over a 24-hour period (from 06Z to 06Z the following day). **Forecasts are due at 00Z which is 8:00 pm EST during Daylight Time Saving period and 7:00 pm EST beyond Daylight Time Saving period.** Here is a link to help with the time conversions <https://www.timetemperature.com/time-tools/time-converter.php>

### Links to helpful websites

Model Output Statistics (MOS) - [https://www.weather.gov/mdl/mos\\_getbull#selectsta](https://www.weather.gov/mdl/mos_getbull#selectsta)

Follow the steps to get the output data for a city. This is helpful to get a feel for what the models are thinking the weather is going to be like for the next day. Step 1: keep cycle latest, and choose short GFS (MAV) and NAM MOS. NAM and GFS are two major models the NWS uses for its forecasts. Step 2: in the "selected stations" box type in the station identifier, and then click "view bulletin" right below the station identifier. To understand the format used for the MOS data look to "product information" (big blue box to the left) and check out the MAV and MET key

USL mesoscale model - <http://www.microclimates.org/forecast/wxchallenge.html>

A private mesoscale model that is usually more accurate for the windspeed than either MOS and is easy to understand!

NWS - Type in the city name and NWS into google (an example is "Miami FL NWS")

The National Weather Service's forecast for the city. You can scroll down to "forecast discussion" to read about the synoptic and mesoscale weather patterns. You can also click "hourly weather forecast" to see a table with all of the data. Make sure you are looking at the right times!

Tropical Tidbits - <https://www.tropicaltidbits.com/analysis/models/>

A website with graphical weather forecasts for both global models (GFS/ECMWF) and mesoscale models (NAM/HRRR). There's also a tab for Satellite imagery at the top.

Mike's Weather Page - <https://spaghettimodels.com/>

A website that has links to almost anything weather-related. With tabs for the National Hurricane Center, the Storm Prediction Center, Weather Prediction Center, GOES satellite imagery, and much more.