

Figure 1: WRF time series output of Temp vs Time

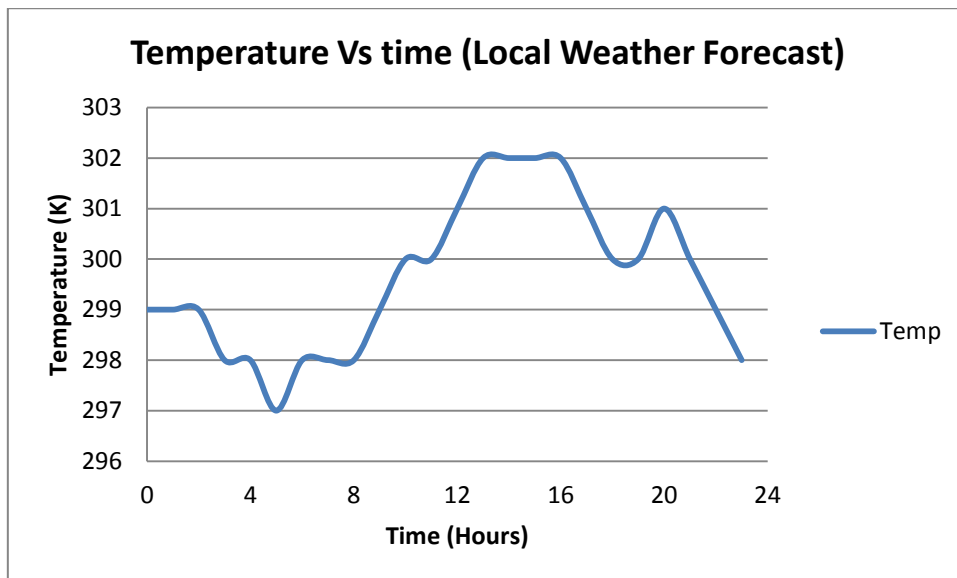


Figure 2: Local weather Forecast of Temp vs Time

Inconsistency in my WRF output:

I am having difficulties understanding why the results obtained from the WRF time series output behaves strangely as compared to what is obtained from the local weather forecast of temperature vs. time. Both outputs have about same average daily temperature of 300K. However, the WRF output seems to behave strangely.

For WRF the peak temperature occurs within the hours of 6am – 9am. This does not follow the diurnal temperature behaviour of the study area. However, the local weather forecast for the same day captures this behaviour perfectly.

Simulation info:

I used global 6 hourly NCEP FNL 1⁰x1⁰, and USGS as input data for the simulation. Running from 2013-02-26_00:00:00 to 2013-02-27_00:00:00.

Could anyone advise me on the possible mistakes and solutions to my simulation that have led to wrong time series output