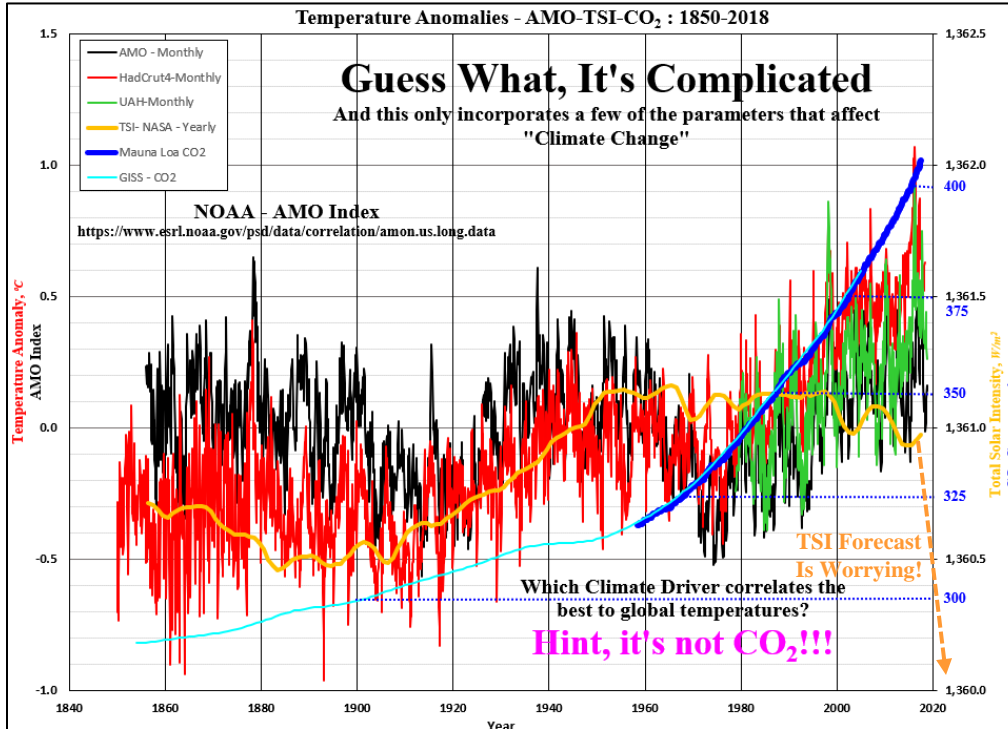


OPS-8

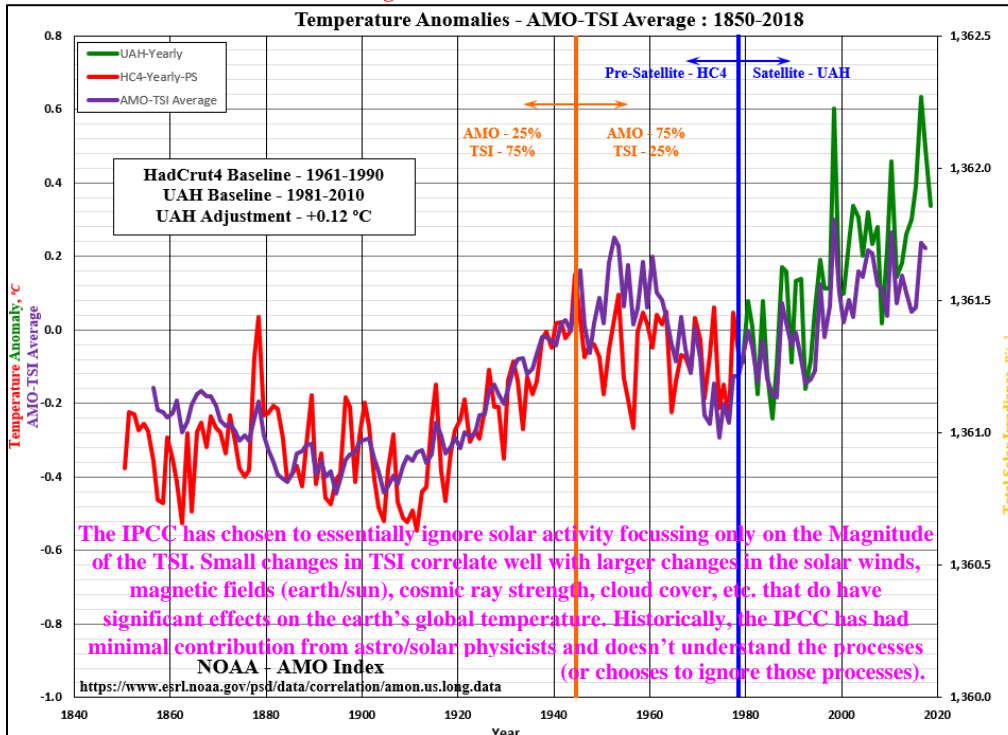
A QUICK MODELING EXERCISE

Is it possible to model the temperatures over the last 168 years without factoring in atmospheric CO₂ concentrations? Well actually, yes it is. A few clarifying points. This is not a rigorous model nor do I believe that the model provides the ultimate answer to "Climate Change". In fact, I do believe that CO₂ concentration increases will lead to some minor temperature increases (but those increases will not be catastrophic, they will actually be beneficial).



Assumptions
 CO₂ is (for this exercise) ignored.
 The AMO and TSI anomalies are divided into two periods (pre-1945 (more TSI changes, more TSI weighting) and post-1945, (stable TSI, more AMO weighting).
 Temperature is divided into a pre-satellite (HadCrut4 data) and a satellite period (UAH Data) below.

Additional Information: Google "Ronald Davison climate". A detailed look at the basic data. Make up your mind!



Observations
 The correlation using a consolidated AMO-TSI anomaly is very good over the entire period.
 Adding some CO₂ contribution would tighten up the curve post-1950. And as I implied above, I believe CO₂ is likely contributing to the 1975 to late 90's temperature rise. But so is the AMO (which was active pre-1950 and would still be active post-1960) and the PDO (not shown).