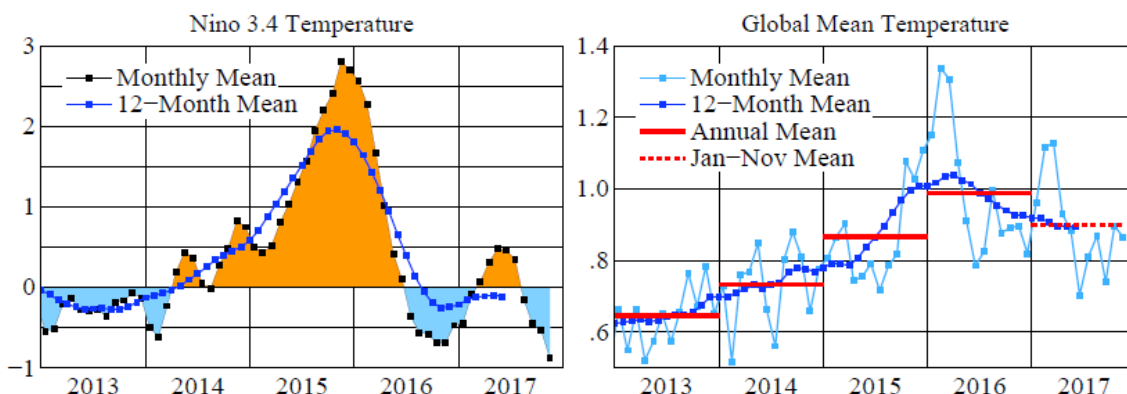


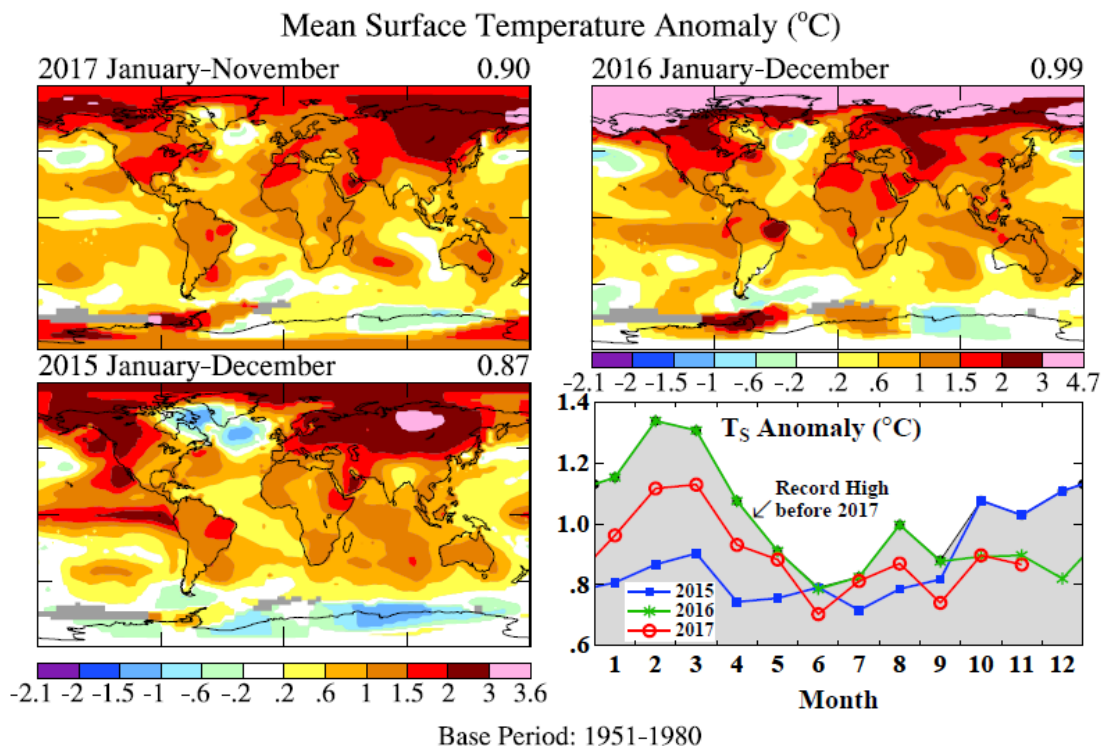
November 2017 Global Temperature Update



Globally November 2017 was the third warmest November since reliable measurements began in 1880, 0.87°C warmer than the 1951-1980 mean. November temperature was $+1.15^{\circ}\text{C}$ relative to the 1880-1920 base period that provides our best estimate of pre-industrial global temperature. The warmest November was 2015 at $+1.03^{\circ}\text{C}$ relative to the 1951-1980 mean. 2016 had the 2nd warmest November at $+0.90^{\circ}\text{C}$.

The strong 2015-2016 El Nino ended about a year and half ago and the tropical Pacific is now in a La Nina phase (temperature anomaly less than -0.5°C ; see left side of above figure). However, global temperature remains high, which will make 2017 the 2nd warmest year globally.

The geographical distribution of annual temperature anomalies for the past three years is shown in the figure below (January-November mean for 2017).



Base Period: 1951-1980