



## IEAGHG Information Paper 2017-IP43; Hat Trick of Hottest Years on the Way

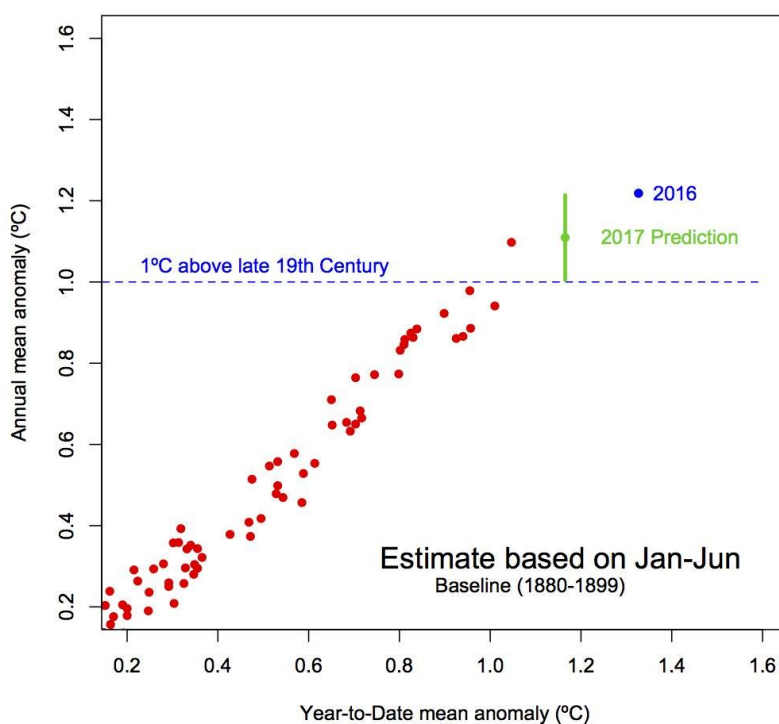
Data released by US National Oceanic and Atmospheric Administration (NOAA), shows that June 2017 was the third-hottest June on record, beaten only by the two preceding Junes in 2015 and 2016.

The NOAA data shows that the combined land and sea-surface temperatures for June 2017 were 0.82°C above the 20<sup>th</sup> century average. This is the 41<sup>st</sup> consecutive June above that average.

June 2016 still holds the record at 0.92°C above the 20<sup>th</sup> century average, followed by June 2015, which was 0.89°C above the baseline.

The NOAA data line agrees closely with figures released by NASA recently<sup>1</sup>, which suggested that June 2017 was the fourth hottest on record – with June 1998 also being warmer in their data set. NASA scientists predict that 2017 was probably going to be the second-warmest year on record after 2016, but would almost certainly be among the top three hottest years.<sup>2</sup>

**Predicting the 2017 GISTEMP LOTI mean anomaly**



Source: Gavin Schmidt Nasa, see ref 1.

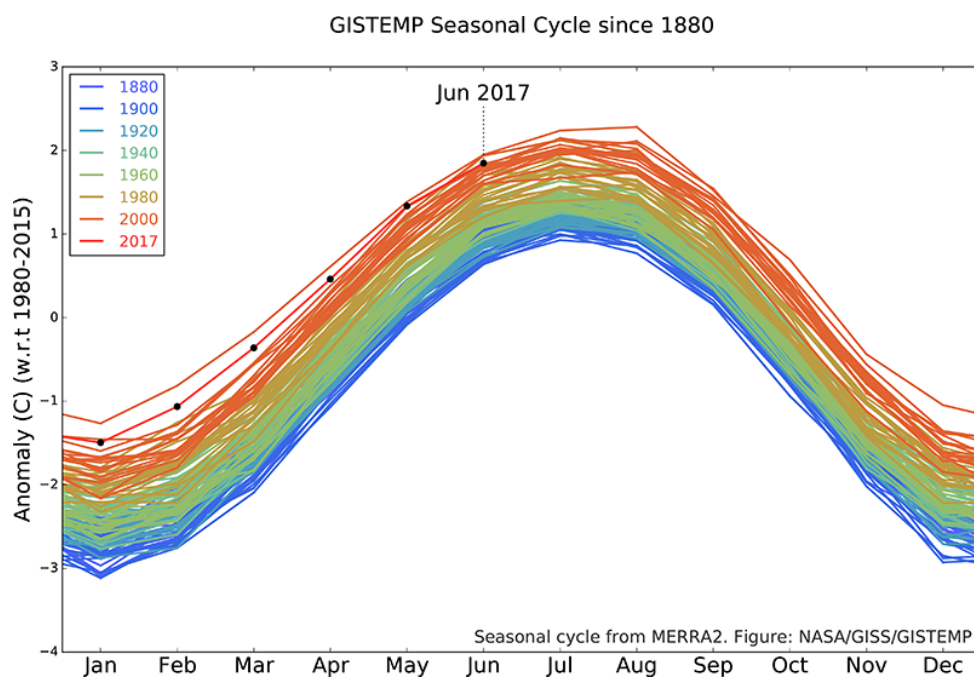
<sup>1</sup> <https://data.giss.nasa.gov/gistemp/news/20170714/>

<sup>2</sup>

[https://twitter.com/ClimateOfGavin/status/886257115794481152/photo/1?ref\\_src=twsrc%5Etfw&ref\\_url=https%3A%2F%2Fwww.theguardian.com%2Fenvironment%2F2017%2Fjul%2F19%2Fthird-hottest-june-puts-2017-on-track-to-make-trifecta-of-hottest-years](https://twitter.com/ClimateOfGavin/status/886257115794481152/photo/1?ref_src=twsrc%5Etfw&ref_url=https%3A%2F%2Fwww.theguardian.com%2Fenvironment%2F2017%2Fjul%2F19%2Fthird-hottest-june-puts-2017-on-track-to-make-trifecta-of-hottest-years)



Scientists are inferring from this data that the figures also cement estimations that warming is now at levels not seen for 115,000 years, and leave some experts with little hope for limiting warming to 1.5°C or even 2°C<sup>3</sup>.



Source: Monthly temperature anomalies compared with the 1980-2015 mean, according to Nasa's GISTEMP data set from 1880 until June 2017. Photograph: Nasa

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<sup>3</sup> <https://app.box.com/s/t050csk2z20iqk9u14vnlz3i15dh5i0>