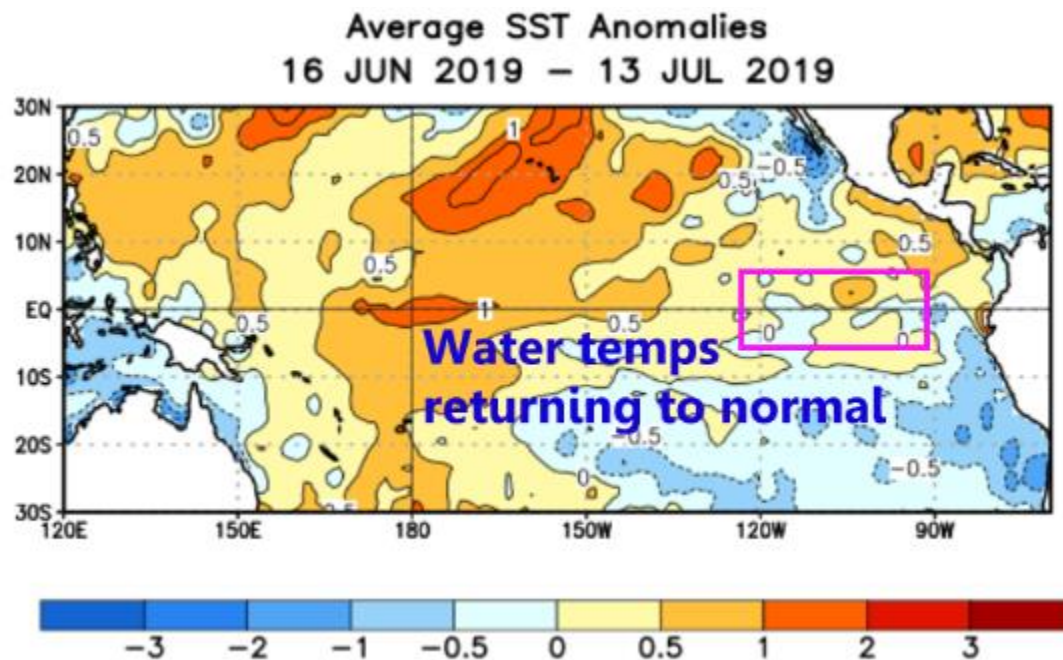


A couple of climate updates I wanted to share...

ENSO/El Nino

The latest [Climate Prediction Center \(CPC\) update](#) on our ongoing weak El Nino shows the warm water temperature anomaly in the tropical east Pacific is fading away, and ENSO-neutral conditions are expected to develop just in time for the heart of our Hurricane Season. If El Nino does end, it will remove one of the inhibiting factors on Atlantic tropical cyclone development this year.



[Model forecasts](#) are for ENSO-neutral conditions to continue through the end of the year and into the 2019-2020 winter season.

Temperatures for June and the first half of 2019

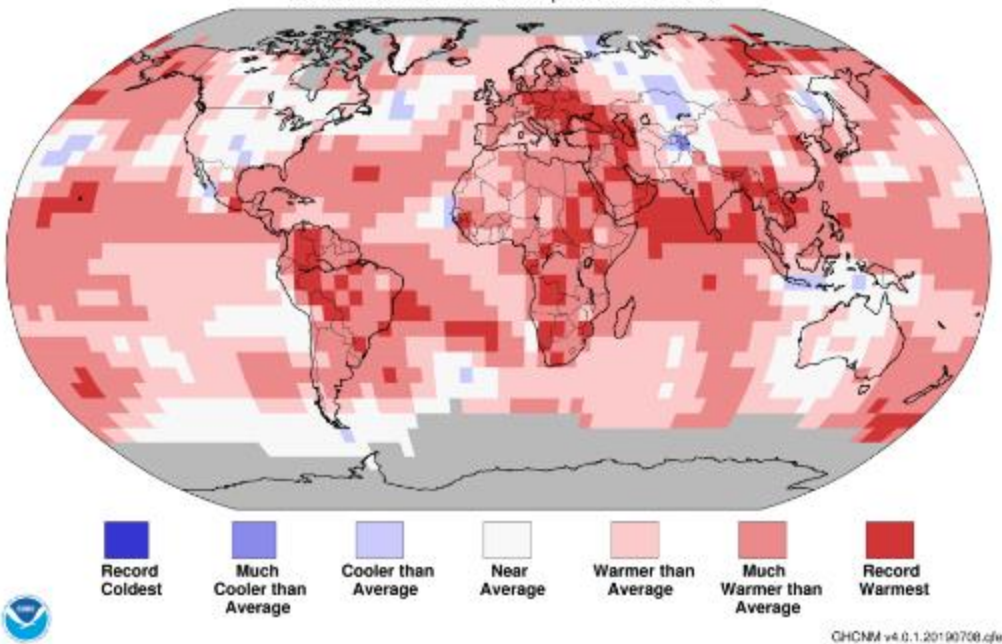
NCEI released their final June 2019 data this week and it was the warmest June since global records began in 1880. Average global temperature ran 1.7 degrees above normal, highlighted by record-breaking heat waves in Europe and India. More details are at <https://www.ncei.noaa.gov/news/global-climate-201906>

Locally, Wilmington ran 0.9 degrees above normal (20th warmest) and Florence ran 1.9 degrees above normal (7th warmest) for June 2019.

Land & Ocean Temperature Percentiles Jun 2019

NOAA's National Centers for Environmental Information

Data Source: NOAA GlobalTemp v5.0.0-20190710



For the first half of 2019 (January through June) global temperatures have run 1.7 degrees above normal, the second highest on record.

Locally for the year so far (January through June) Wilmington is running 2.3 degrees above normal which is the 10th warmest on record. Florence is running 2.6 degrees above normal which is the 7th warmest on record.

Wilmington's rainfall for the first six months of the year was only 13.83 inches, nearly 10 inches below normal and the sixth driest since records began in 1871. In Florence rainfall for the first half of the year totaled 17.30 inches, 4.68 inches below normal.

-Tim

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