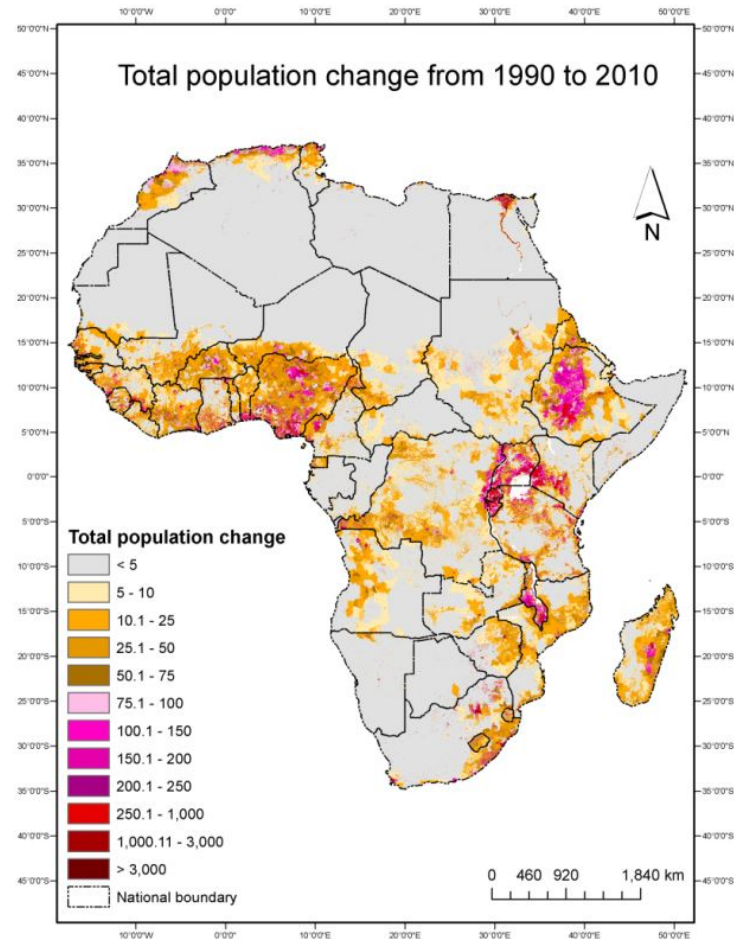


## Change in the Standardized Precipitation Index (SPI) between 1979 and 2010

### Mapping population vulnerability and climate change in Africa

*David Lopez-Carr, Narcisa G. Pricope, Marta M. Jankowska, Christopher Funk, Gregory Husak, and Joel Michaelsen*

International Seminar on Population Dynamics and the Human Dimensions of Climate Change, Canberra, Australia, 27-29 November 2012

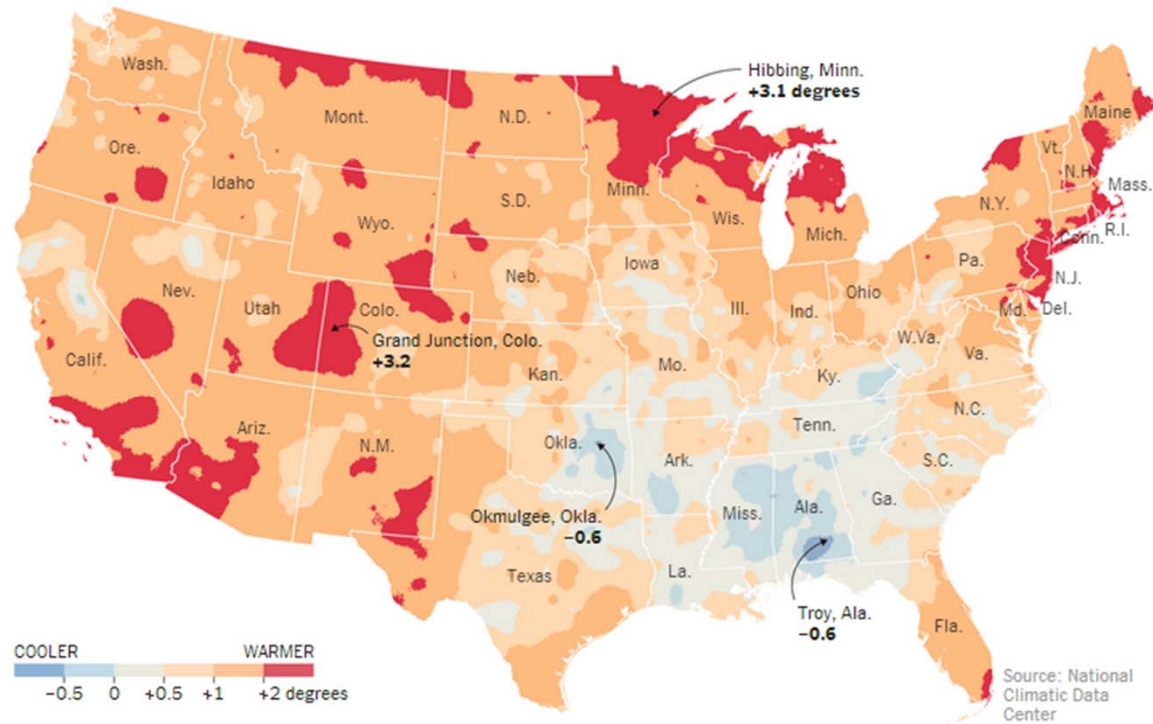


## Total population change from 1990 to 2010 calculated using GRUMPv1 and AfriPop total population data

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## Rising Temperatures

1991-2012 average temperature compared with 1901-1960 average

## Rising Temperatures: 1991-2012 average temperature compared with 1901-1960 average

**U.S. Climate Has Already Changed, Study Finds, Citing Heat and Floods**

*Justin Gillis*

The New York Times, 06 May 2014