

BROOKINGS

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Children and Temperature: Taking Action Now

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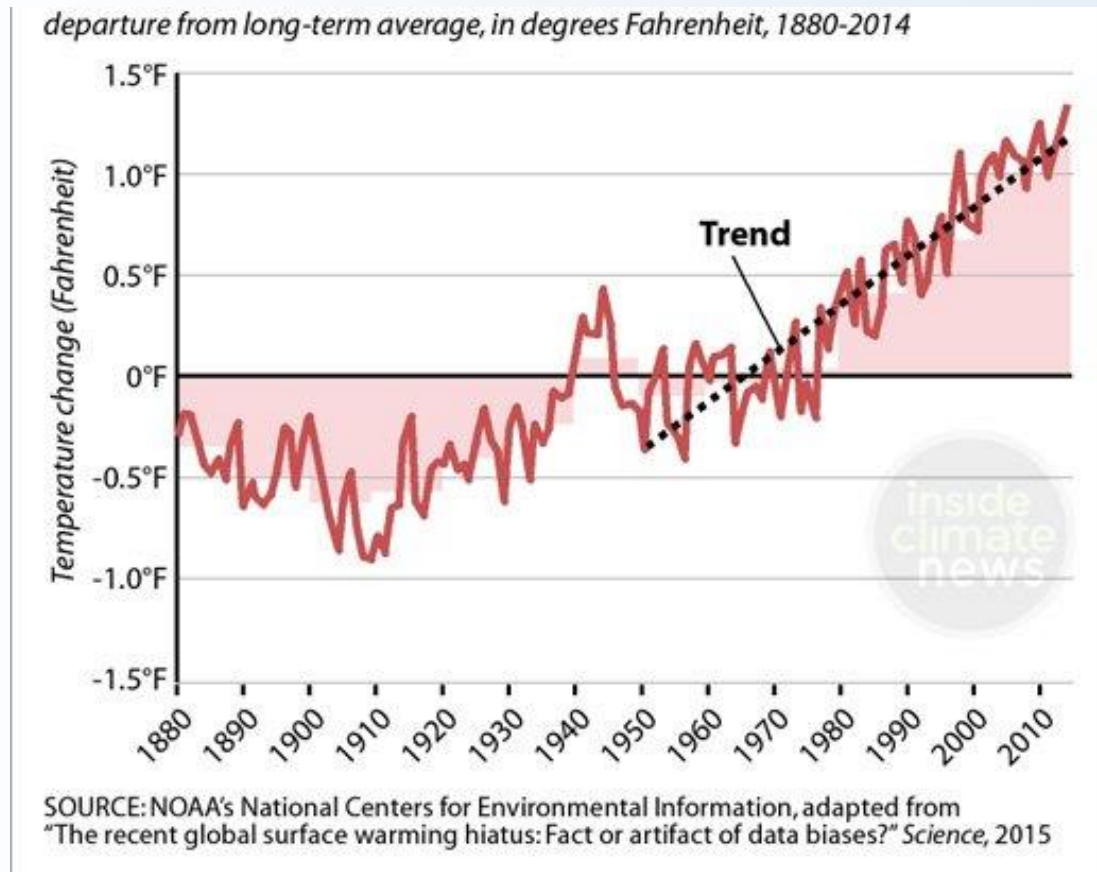
Brookings Institution

Washington, DC

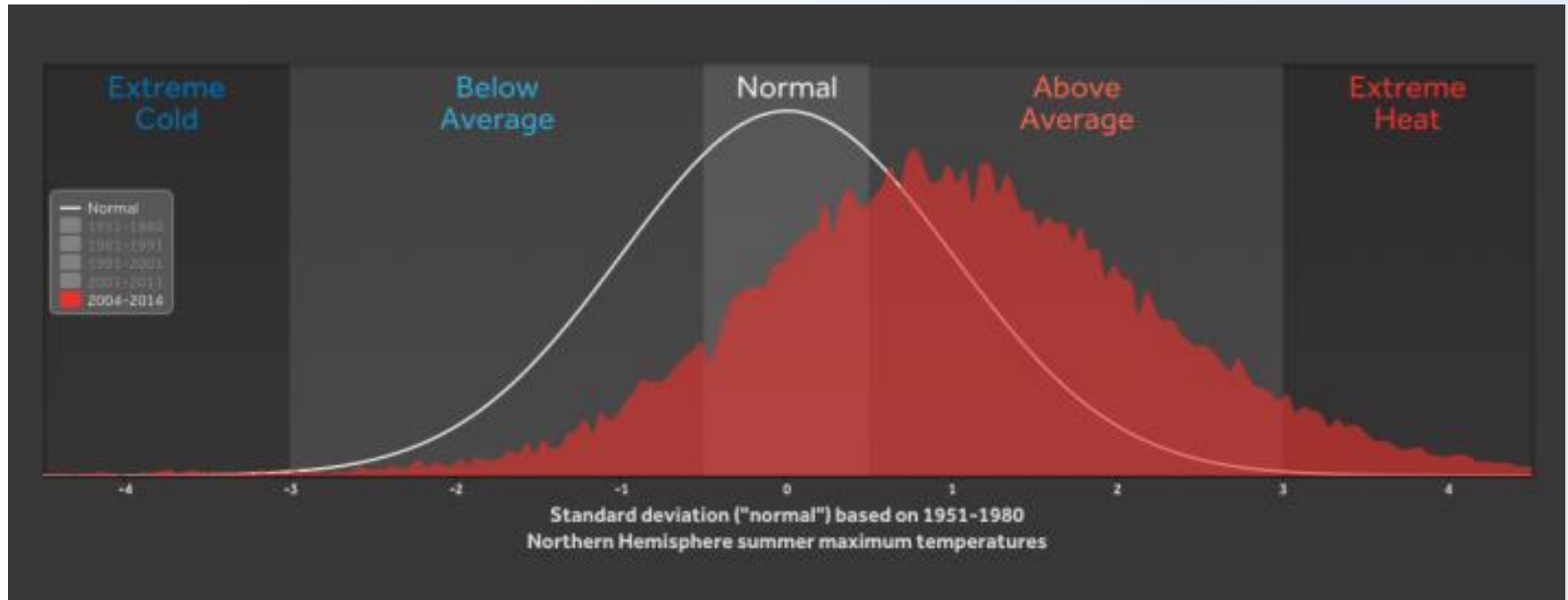
Logic of Policy Brief on Temperature & Children's Health

- Temperatures rising
- Rising temperatures impact children's health
- One indirect path is through infectious diseases
- Zika is prime example
- Mosquito *Aedes aegypti* is main mode of transmission
- Administration proposal

Global Temperature Increases after 1950



Odds of Extreme Heat Increased



Source: Kahn, Brian. "Extreme Heat is Defining Climate Change." Available at <http://www.climatecentral.org/news/extreme-heat-climate-change-19641>.

Impact of Rising Temperature on Children

- Direct effects: mortality, illness, infant deaths
- Indirect effects; vector-borne diseases

Role of *Aedes Aegypti*

- Entomologist Marten Edwards: “[*Aedes aegypti*] loves us; It loves our cities; it loves our blood.”
- Carries Zika, yellow fever, dengue fever, chikungunya
- *Aedes aegypti* as effective vector:
 - Range widest ever; still expanding
 - Breeds in and around standing water
 - More rapid growth in gut
 - Method of biting
- Margaret Chan, Head of WHO: The Zika virus has already spread “explosively” in the Americas

Obama Administration's Response to Zika Threat