

The Human-Induced Climate Crisis and Responses in the NASA and AIAA Communities

Douglas Yazell

AIAA Houston Section Annual Technical Symposium (ATS)

June 1, 2019

Venue: NASA Johnson Space Center Gilruth Center Lone Star Room

<http://www.aiaahouston.org/2019-annual-technical-symposium/>

I added the following 2 slides to about 100 slides from Climate Reality Project.

Slides from Climate Reality Project are presented only by trained volunteers. Those slides are not published.

Volunteers, including me, a few employees of NASA/JSC, and others in the Houston metropolitan area, are available to show such slides upon request.

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116TH CONGRESS
1ST SESSION

H. RES. 109

Recognizing the duty of the Federal Government to create a Green New Deal.

IN THE HOUSE OF REPRESENTATIVES

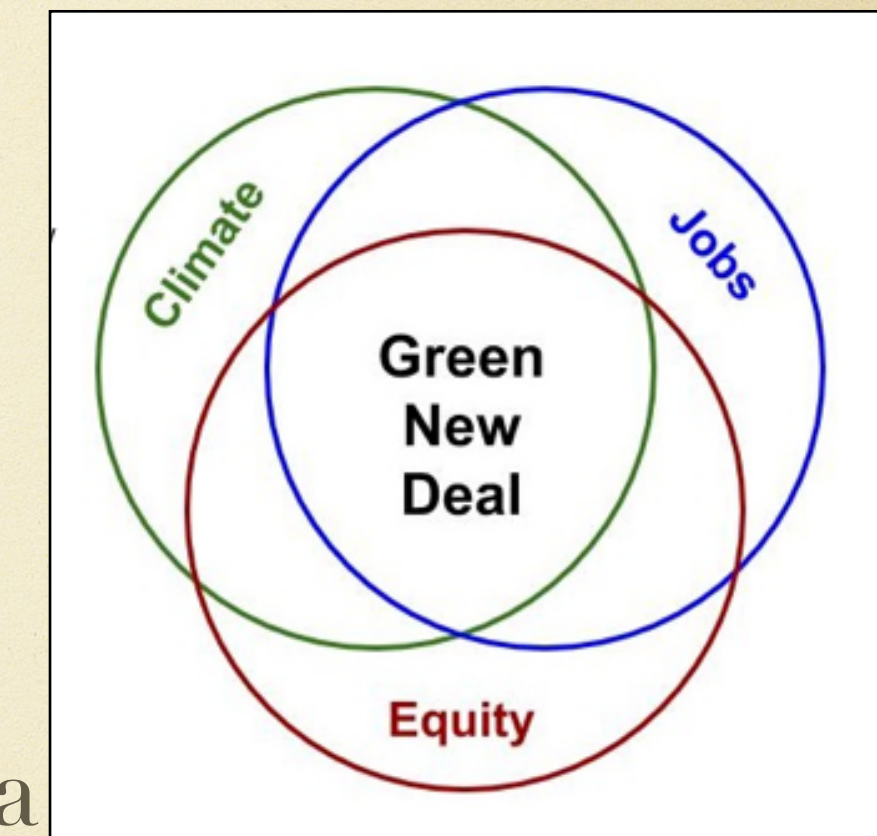
FEBRUARY 7, 2019

Ms. OCASIO-CORTEZ (for herself, Mr. HASTINGS, Ms. TLAIB, Mr. SERRANO, Mrs. CAROLYN B. MALONEY of New York, Mr. VARGAS, Mr. ESPAILLAT,

Slide prepared by Douglas Yazell
Venn diagram credit: The Sierra Club.

The Green New Deal 2019 A Proposed Resolution In the Congress of the USA

Endorsed by
Climate Reality Project
and the Sierra Club



The 20 to 1 Ratio Average Family Wealth White America Compared to Black America

Whereas the United States is currently experiencing several related crises, with—

(1) life expectancy declining while basic needs, such as clean air, clean water, healthy food, and adequate health care, housing, transportation, and education, are inaccessible to a significant portion of the United States population;

(2) a 4-decade trend of wage stagnation, deindustrialization, and antilabor policies that has led to—

(A) hourly wages overall stagnating since the

The 1962 – 2019 annual Gallup poll shows that most of White America says that gap is the fault of Black America

(3) the greatest income inequality since the 1920s, with—

(A) the top 1 percent of earners accruing 91 percent of gains in the first few years of economic recovery after the Great Recession;

(B) a large racial wealth divide amounting to a difference of 20 times more wealth between the average white family and the average black family; and

(C) a gender earnings gap that results in women earning approximately 80 percent as much as men, at the median;

The Deer Park Tank Fire
and the
HEB Grocery Store on
Clear Lake City Blvd
At El Dorado Blvd,
March 31, 2019

If you are buying
a new car for \$40,000,
Buy a
Tesla Model 3 electric car.



Image credits: Douglas Yazell

Four slides from Climate Reality Project show Bell curves for summer temperatures over three decades starting with a 1951-1980 baseline. The reference is a 2012 NASA GISS document by James Hansen, et al., "Perceptions of Climate Change, Proc. Natl. Acad. Sci. USA 10.1073, August 2012."

After the AIAA Houston Section event of June 1, 2019, on Friday, June 14, 2019, I found a copy of those four slides from a CDC presentation. They will be presented on the following four slides.

I also found an updated version of that information using only two slides. That version is from a government website for the city of Denver Colorado USA. Those two slides will be presented below, too.

Those two websites:

<https://www.cdc.gov/minorityhealth/internships/2016/ClimateChangePublicHealth.pdf>

Use the Google search engine to find this Michelle Shimomura PowerPoint presentation from denvergov.org (Denver Public Health and Environment) on the website

coloradohealthinstitute.org. The PowerPoint title says, "Climate Change, Health,

& Equity", while the PowerPoint filename says this, "Michelle Shimomura - Denver Dept of Public Health and Env - Vulnerability Regional Local and Communities."

Climate Change and Public Health: CDC's Role



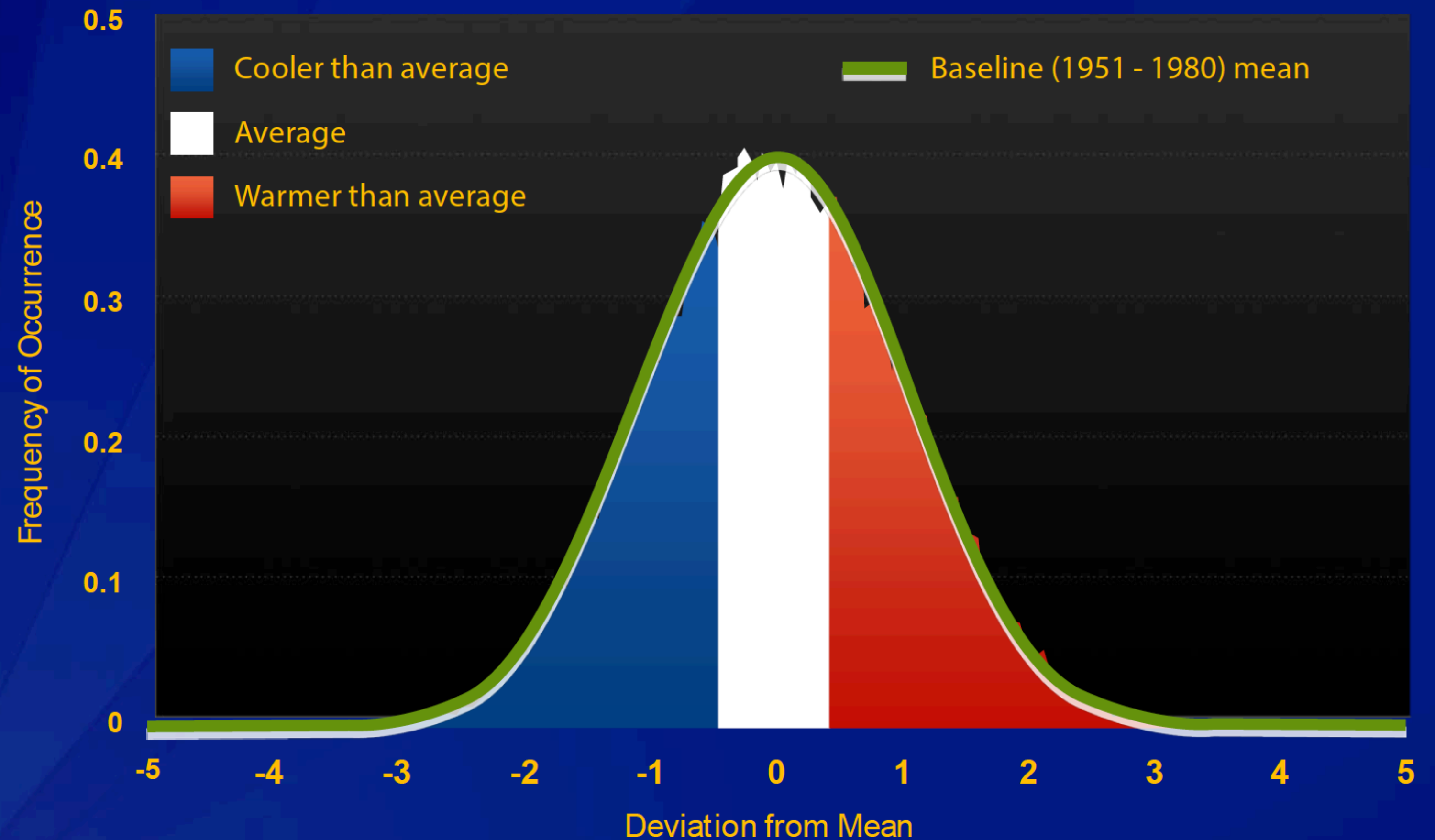
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Chief
Climate and Health Program

Division of Environmental Hazards and Health Effects
National Center for Environmental Health
Centers for Disease Control and Prevention

National Center for Environmental Health
Division of Environmental Hazards and Health Effects



Summer Temperatures 1951–1980



Source: NASA/GISS; Hansen, et al., "Perceptions of Climate Change," Proc. Natl. Acad. Sci. USA 10.1073, August 2012

Climate Change and Public Health: CDC's Role



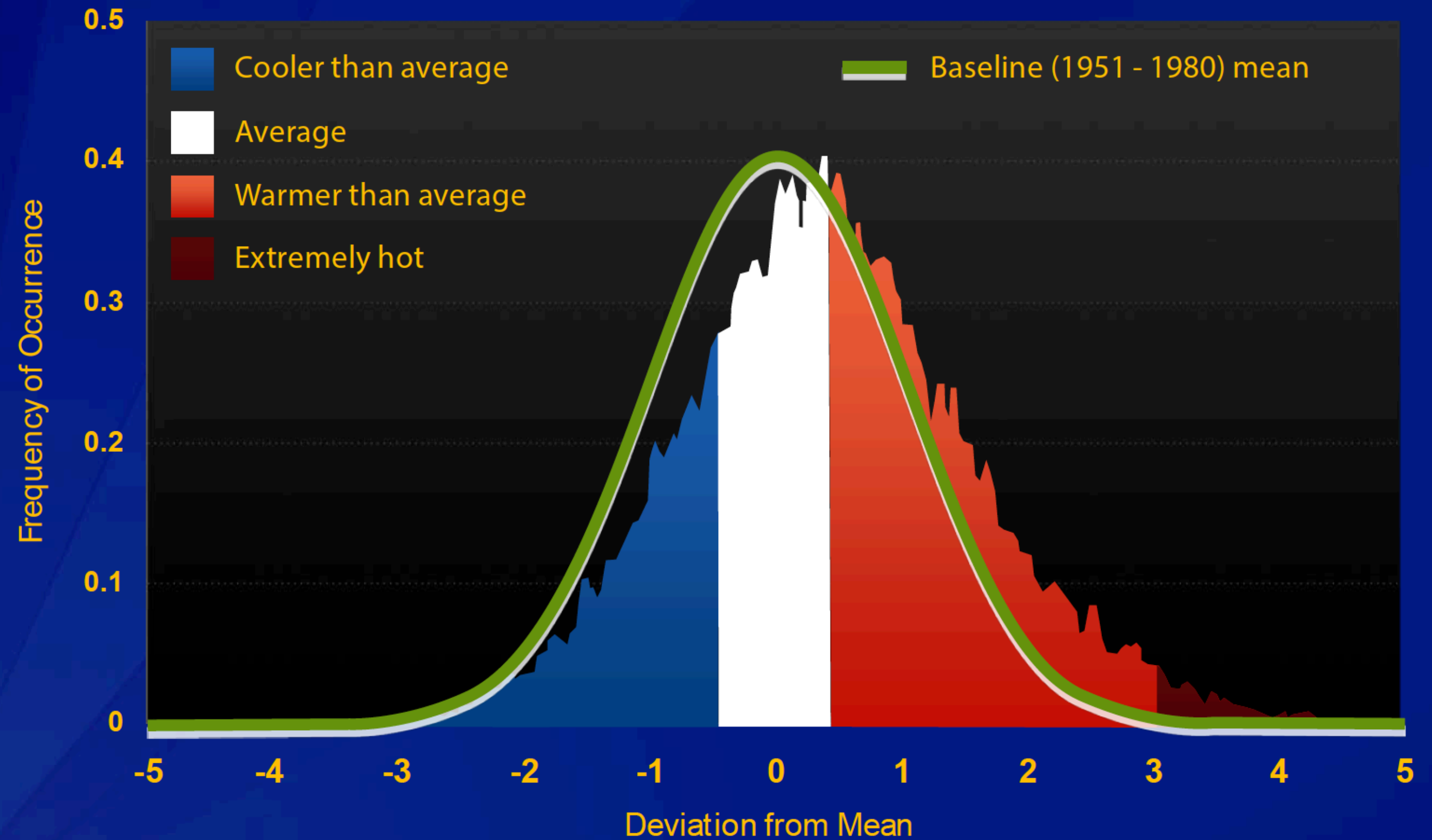
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Centers for Disease Control and Prevention

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Summer Temperatures 1981–1991



Source: NASA/GISS; Hansen, et al., "Perceptions of Climate Change," Proc. Natl. Acad. Sci. USA 10.1073, August 2012

Climate Change and Public Health: CDC's Role



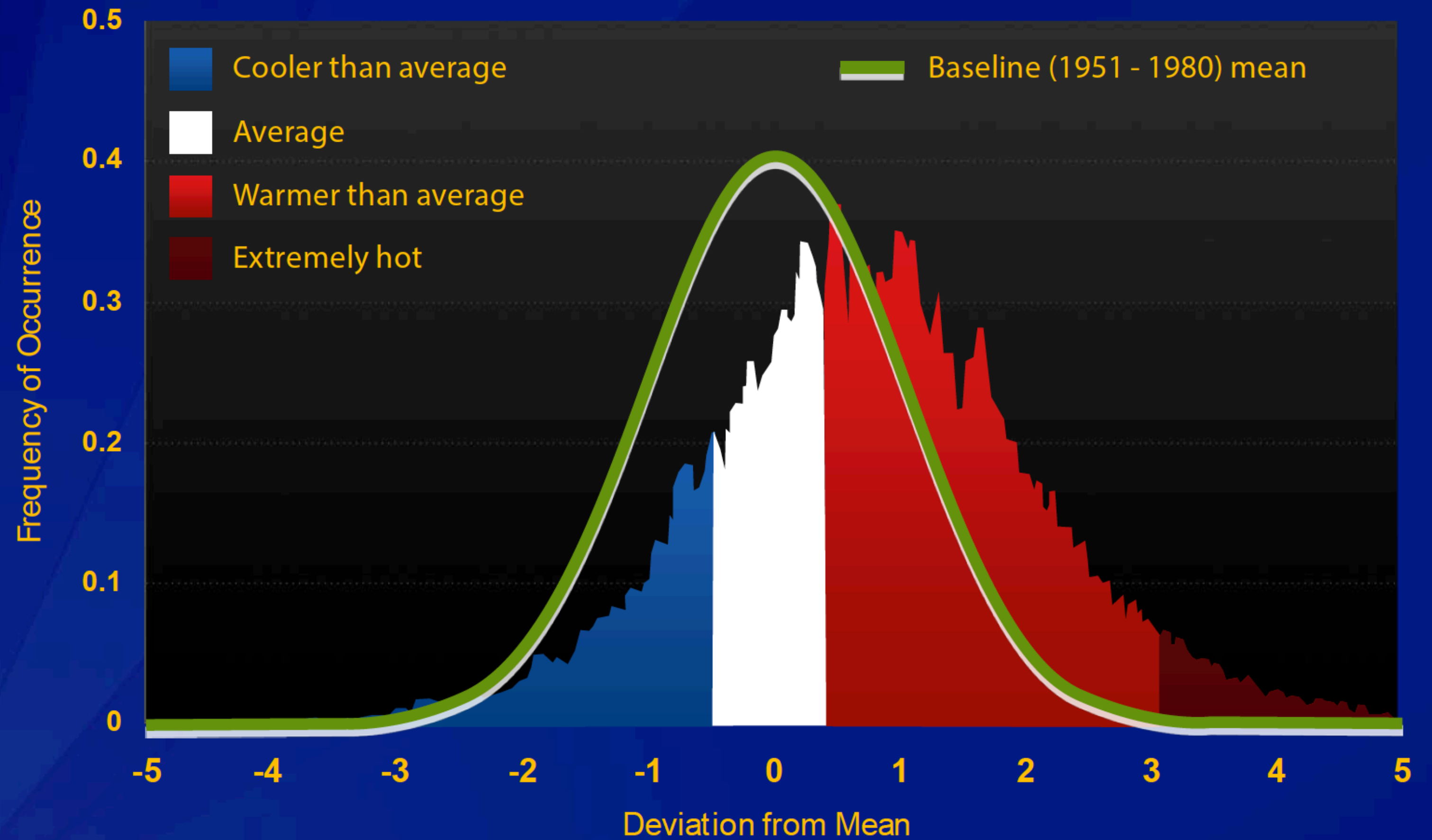
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Summer Temperatures 1991–2001



Source: NASA/GISS, Hansen, et al., "Perceptions of Climate Change," Proc. Natl. Acad. Sci. USA 10.1073, August 2012

Climate Change and Public Health: CDC's Role



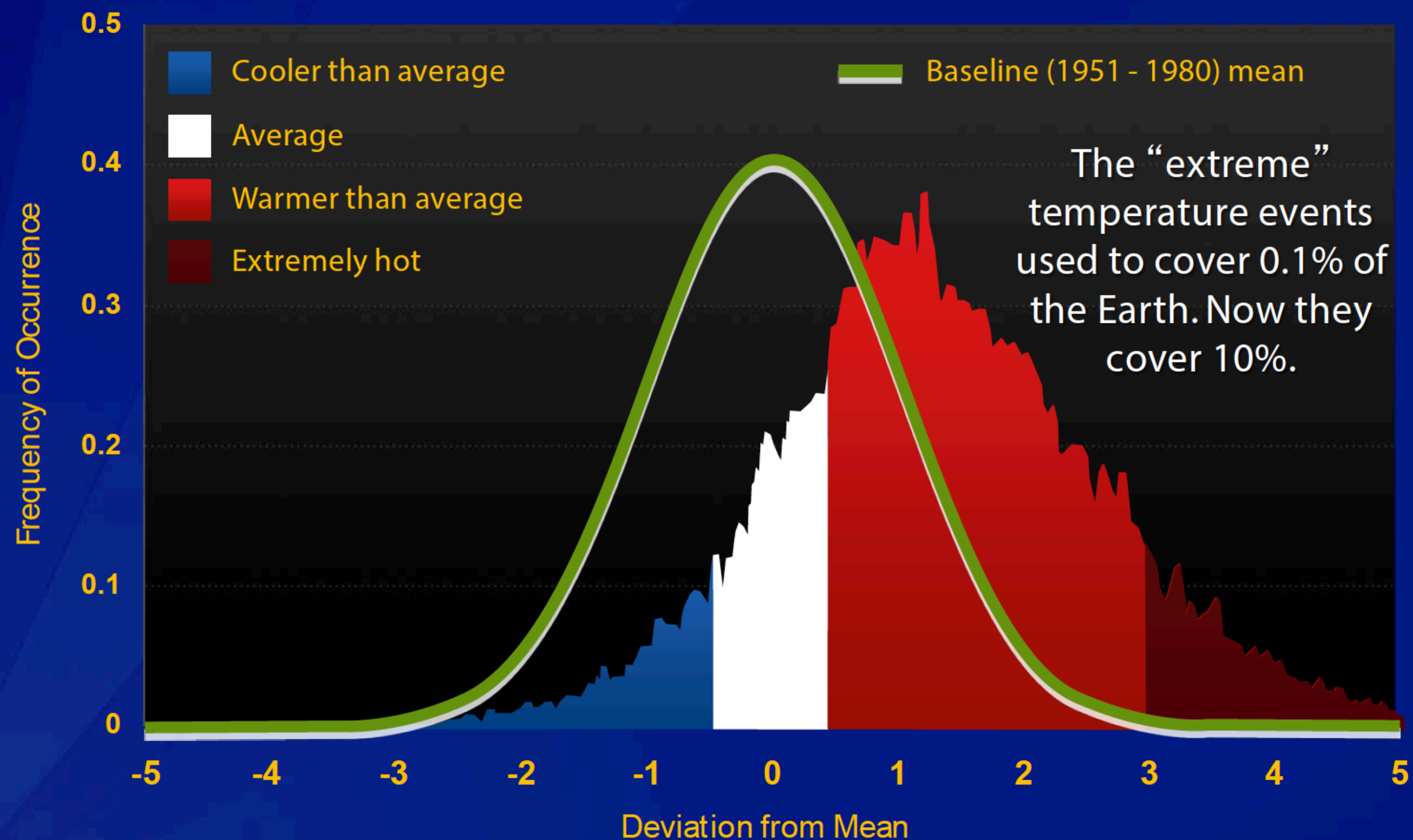
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Summer Temperatures 2001–2011



Source: NASA/GISS; Hansen, et al., "Perceptions of Climate Change," Proc. Natl. Acad. Sci. USA 10.1073, August 2012

Climate Change, Health, & Equity

Michele Shimomura

Denver's nationally-accredited public health department



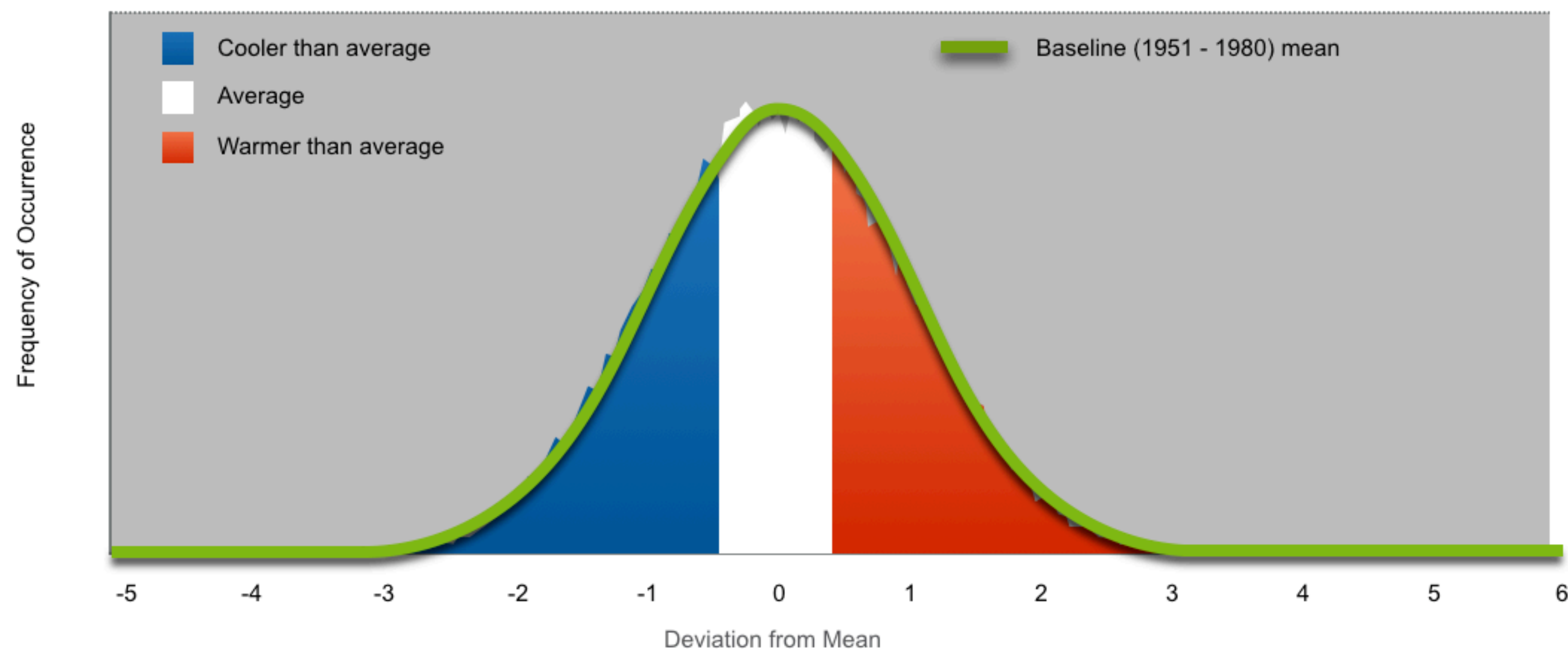
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Summer Temperatures Have Shifted

1951 -- 1980



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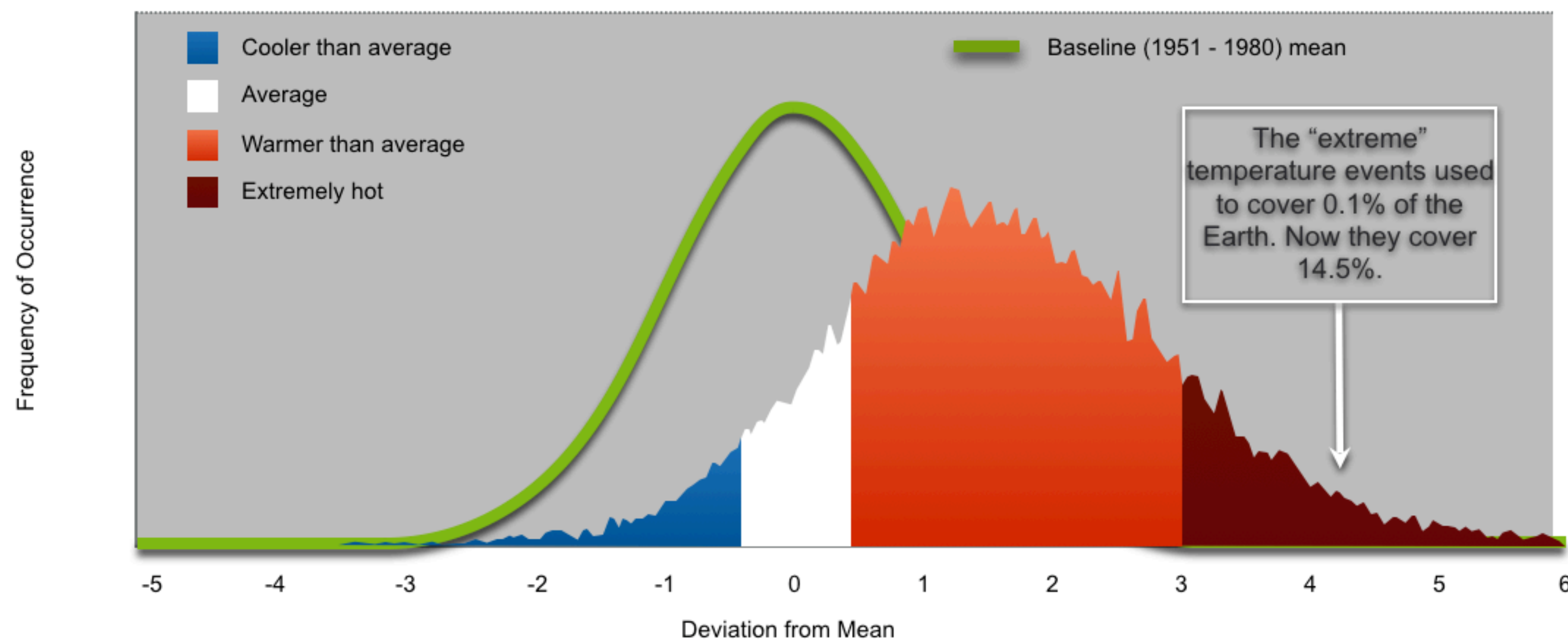
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Summer Temperatures Have Shifted

2005 – 2015



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