Weather and climate information to facilitate action on heat

Hannah Nissan
How good are weather forecasts for heat?

3 day forecast
ECMWF model vs ECMWF analysis

Thomson & Mason (2018) Climate Information for Public Health Action
How good are weather forecasts for heat?

Thomson & Mason (2018) *Climate Information for Public Health Action*

3 day forecast
ECMWF model vs
ECMWF analysis
Data divide
Exploiting seasonality

How good are seasonal temperature forecasts?

Thomson & Mason (2018) *Climate Information for Public Health Action*
A mix of weather and climate services
Sub-seasonal forecasts: bridging weather and climate


WEATHER EVENTS
Individual storm events:
blizzards, rainstorms, hurricanes

S2S EXTREMES
Tropical cyclone activity,
heat waves, storm tracks,
severe weather threats

SEASONAL OUTLOOKS
El Niño-Southern Oscillation,
temperature and precipitation anomalies

Adapted from: iri.columbia.edu/news/qa-subseasonal-prediction-project
Extreme heat in a changing climate

TRENDS IN HOTTEST TEMPERATURE OF THE YEAR

°C per decade
1966-2015

Extreme heat in a changing climate

HOTTEST TEMPERATURE OF THE YEAR

Thank You

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