Extreme Heat: A Growing Threat to Human Health

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Global Temperature are Rising

Extreme Warm Days are Increasing
Extreme Cold Night are Decreasing
The Risk of Heat Stress Events is Rising

![Graph showing June Land & Ocean Surface Mean Temp Anomalies](image)
Global Surface Temperature Reaches Record High in 2015

The globally averaged temperature over land and ocean surfaces for June 2015 was the highest for the month of June since record keeping began in 1880.
Projections Show Temperatures Will Continue to Increase.
Regional Scale Projections

• Projected mid-century temperature changes in the Midwest.
• What is the quality of these projections?
• Are the time/space scales suitable for decision support?
Near Term Outlooks

Two Week  ➔  One Month  ➔  Three Month

• What is the skill of these forecasts?
• What is being done to improve the quality of these forecasts?
• Are the temporal and spatial scales relevant to decision making?
Session Outcomes

• Characterize the current state of heat projections and their skill level.

• Identify what near-future capacity is currently being developed to predict heat events at various temporal and spatial scales.