



Why urban heat is a major health problem

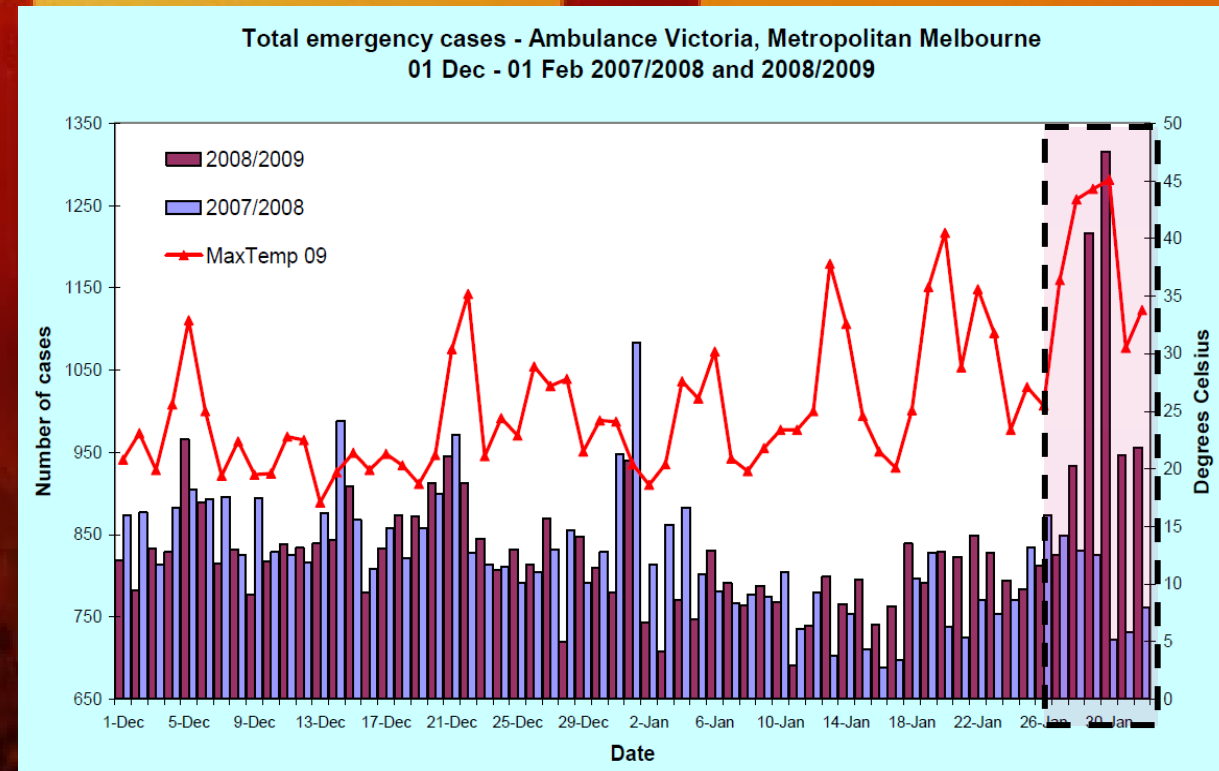
Dr George Crisp



Heatwaves

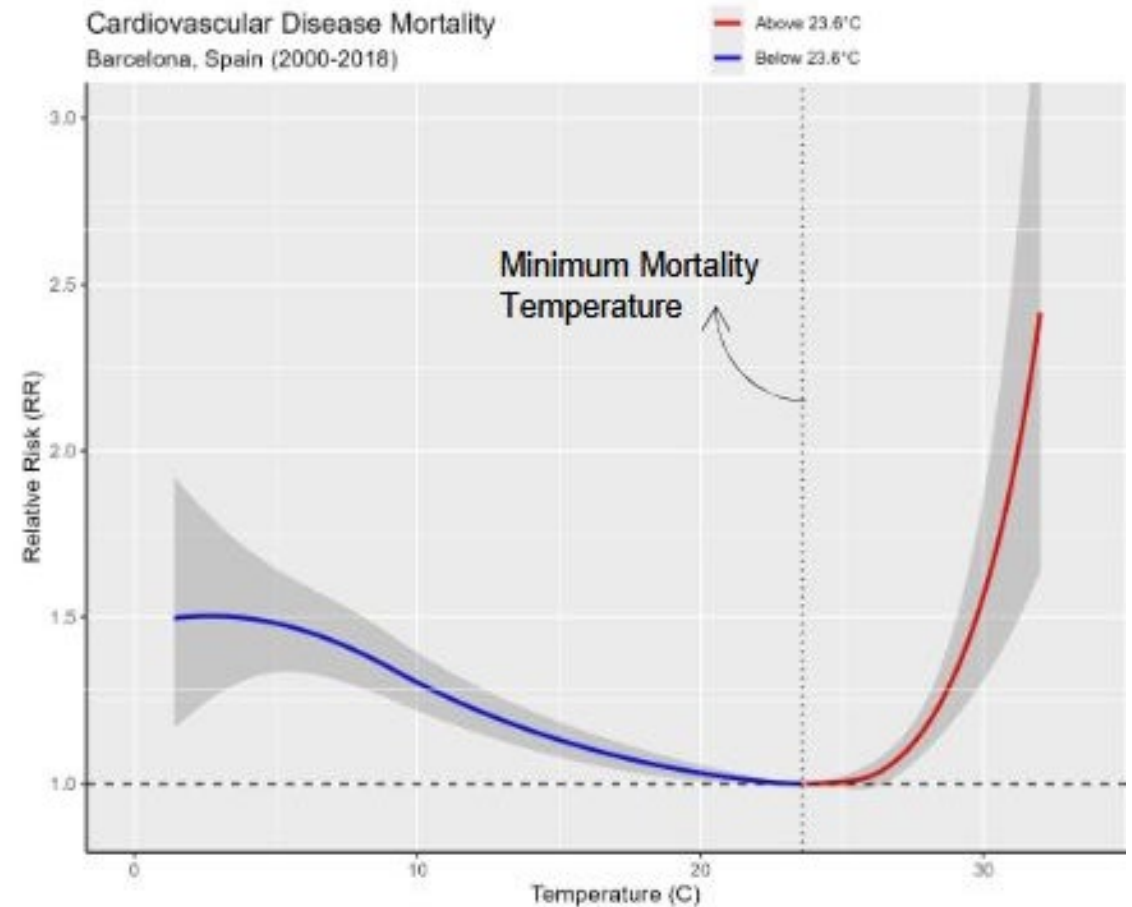
2009 - Victoria

- 46% ↑ in Ambulance call-outs
- 2.8x ↑ in Cardiac Arrests
- 8x ↑ in ED presentations
- 374 'excess' Deaths



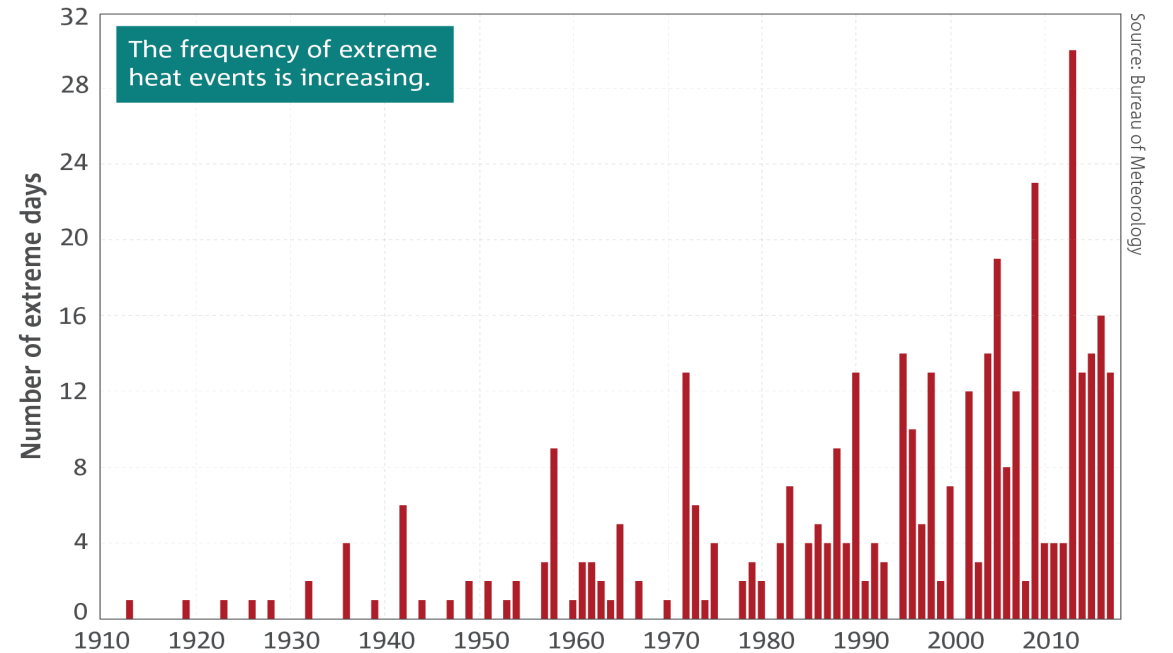
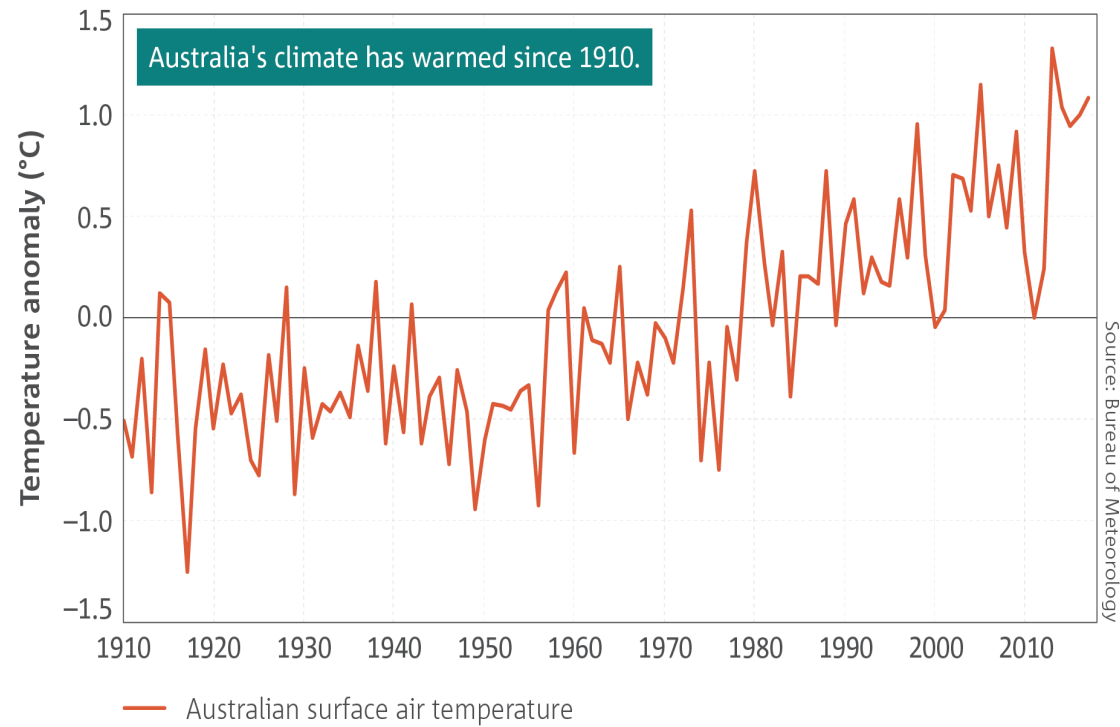
Heat-related Health Impacts

- *Heat stroke / heat exhaustion*
 - Mortality
 - Cardiovascular - Heart Attacks
 - Respiratory illness
 - Premature births and stillbirths
 - Mental ill-health episodes
- * Health impacts start to increase at surprisingly low temperatures thresholds

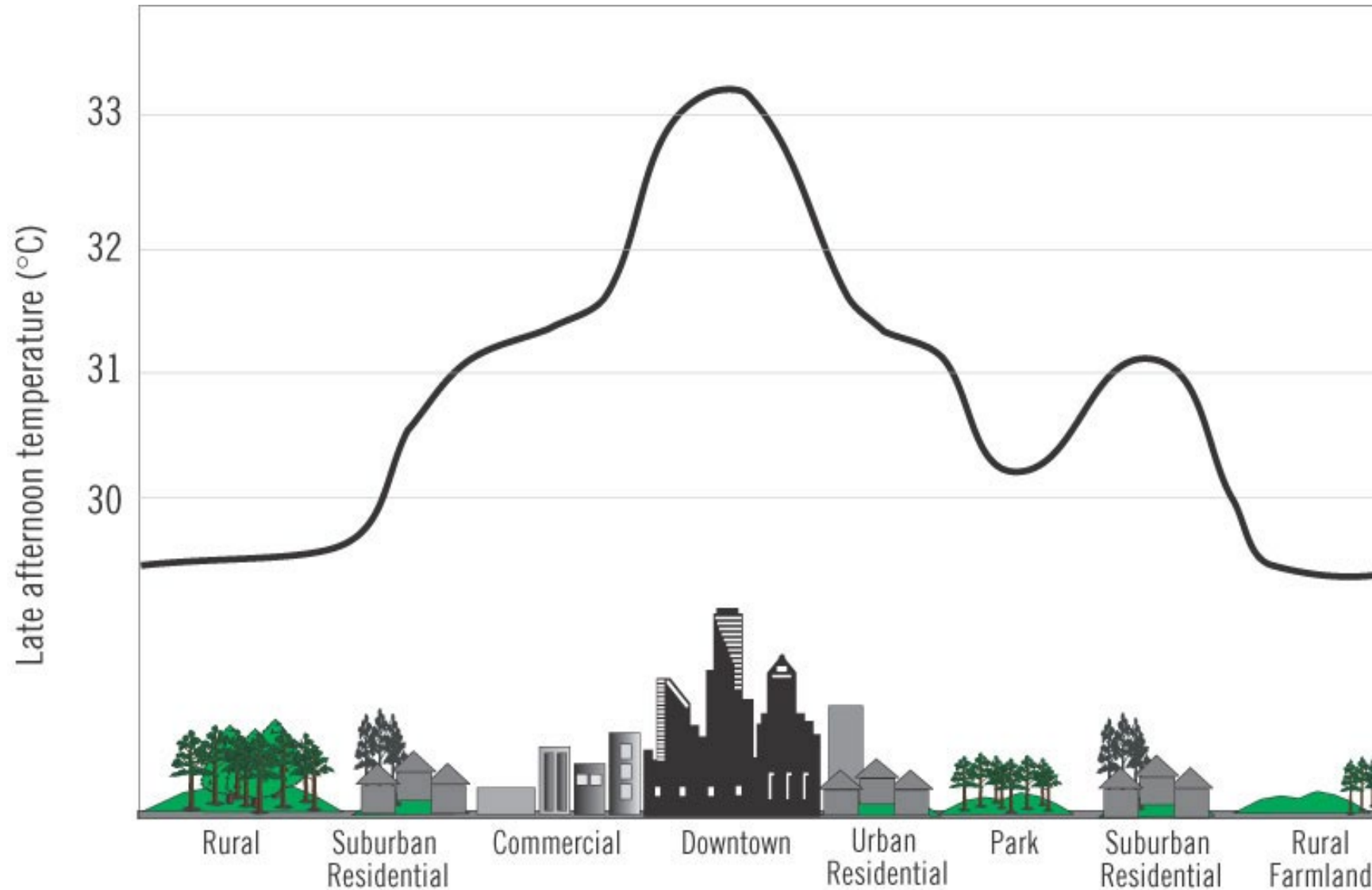




Temperature: averages and extremes



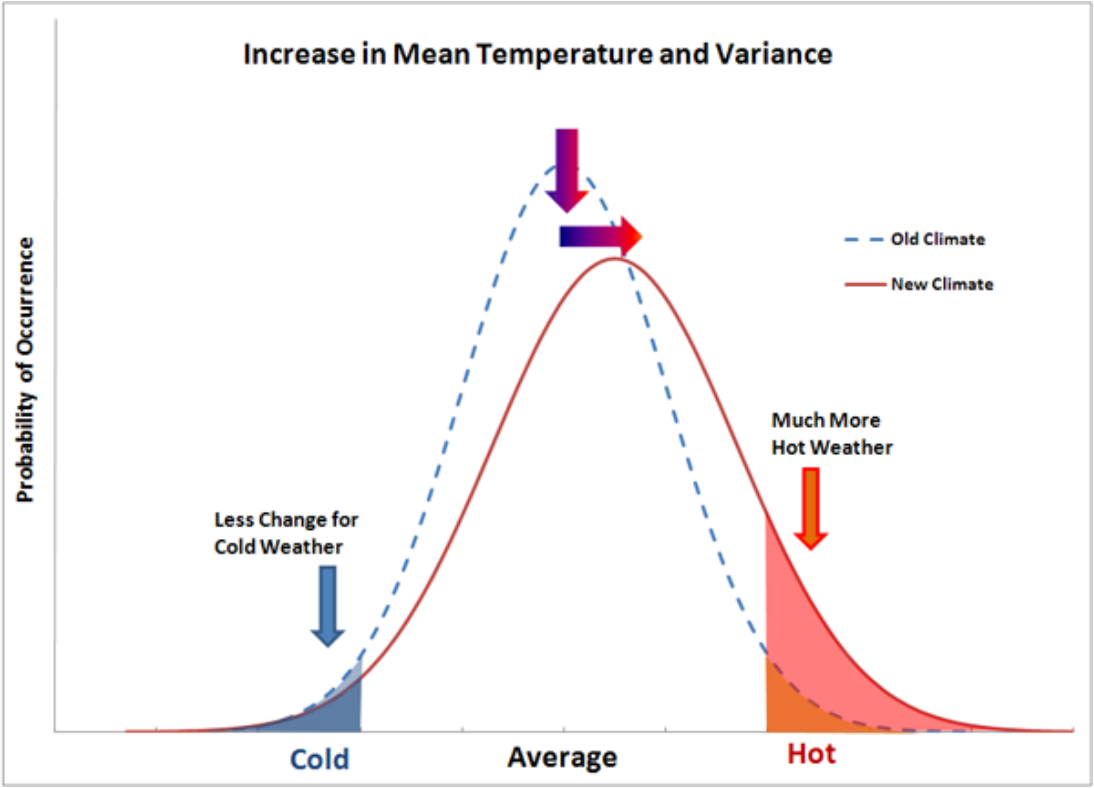
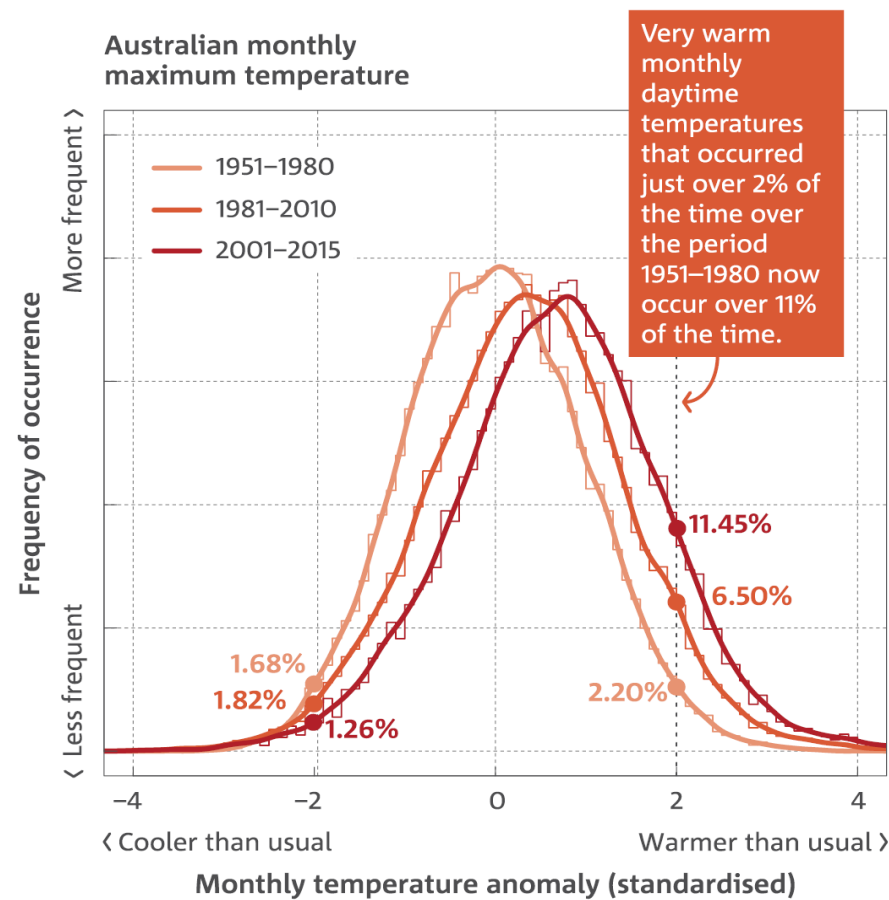
Urban heat island



- Tree canopy
- Green space
- Urban form / design
- Buildings

Temperature – distribution and extremes

... small change in mean equates to a big change in extremes



Heat : non-linear exposure AND impacts

