Climate Change Impacts on Spiritual/Psychological/Psychosocial Resilience

Building Personal and Psychosocial Resilience to Climate Change
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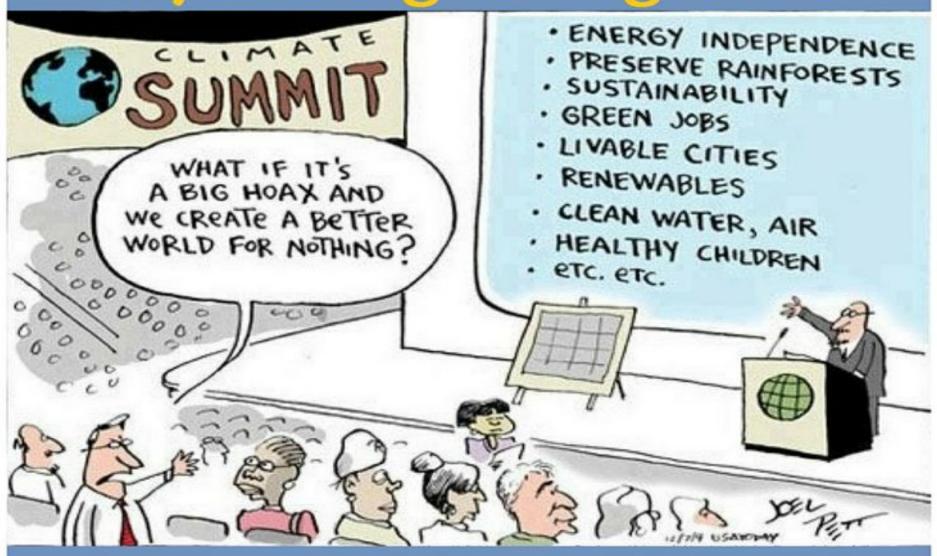
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Psychological Egoism



Humans are always motivated by self-interest

What Is the Problem?

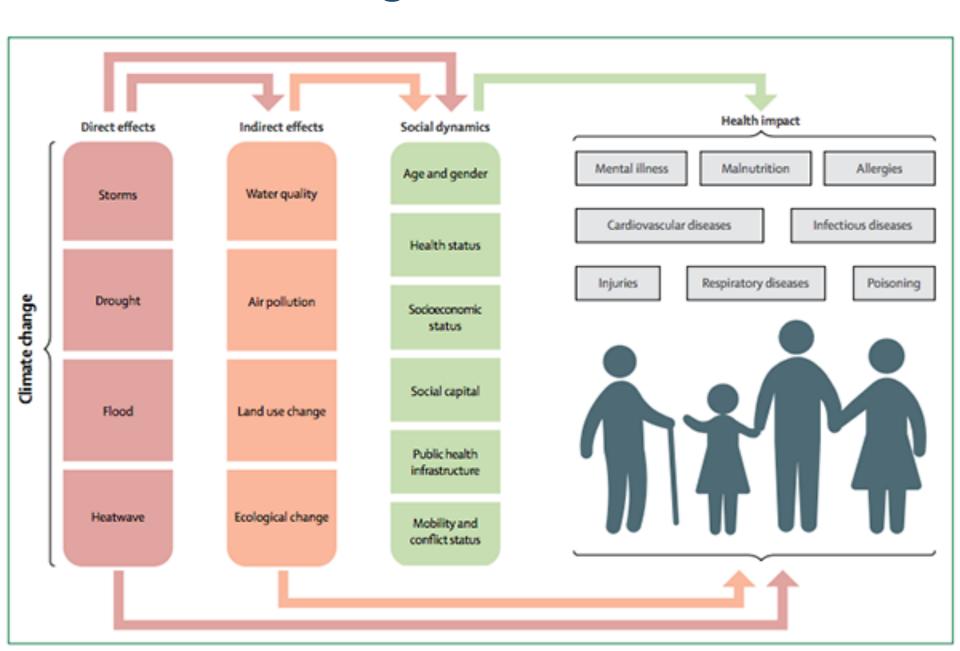
 Left unaddressed, the <u>harmful human mental health and</u> <u>psychosocial reactions</u> to climate change are likely to be <u>as bad as</u> <u>the physical impacts</u>

 Post-trauma treatment is <u>important</u>, but <u>too late</u>, deals mostly with <u>acute traumas</u>, and response systems will <u>never be robust enough</u>

Bob Doppeit
Executive Director
The Resource Innovation Group and
Transformational Resilience Program



Climate Change Influences on Health



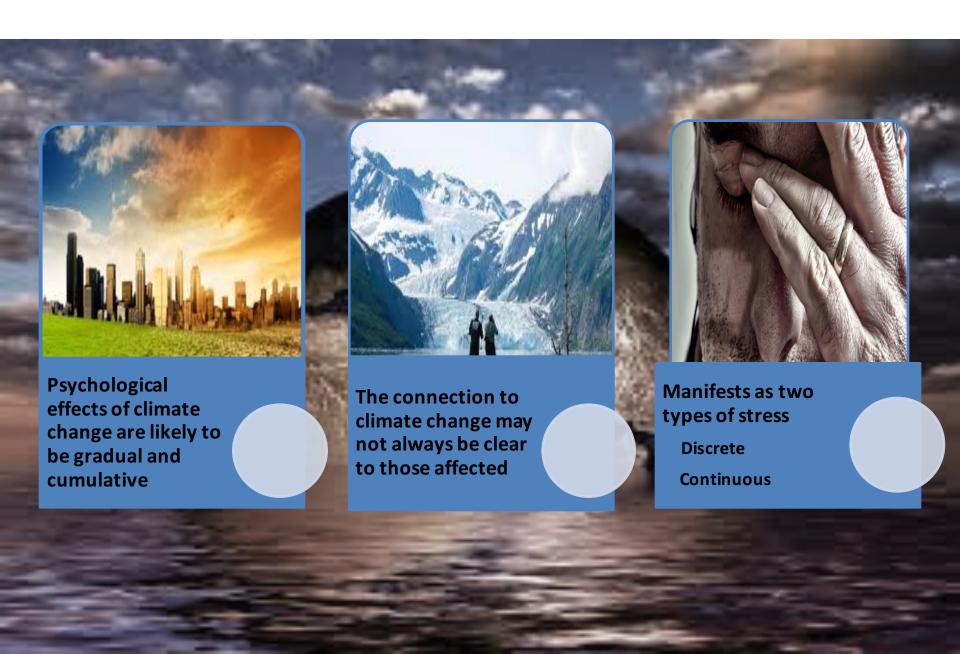
Psychological Considerations in Response to Climate Change

A key characteristic of climate change risks is that they are psychologically <u>distant</u> for many people.¹

- Temporal, social and geographic and uncertain.
 - Lower Psychological distance higher concern.
 - Various strategies to increase positive actions to climate change by reducing the distance of reality to peoples lives to become more real, local, relevant and immediate via <u>risk communication</u> strategies.
 - Issues related to skepticism and uncertainty. future events not impacting them directly now.
 - Temporal issues, no direct impact in locale (more distant geographic concerns) and people, future considerations.
 - Skepticism enhances unsustainable actions and cognitive dissonance (i.e., CC is too complex and uncertain to be understood).
 - Uncertainty transfer may occur where a change or greater prominence given to one aspect of CC could lead to similar changes in other aspects of certainty, uncertainty and skepticism when the risk is not well defined and communicated,
 - Relevancy of CC to people in their geographic locales is essential to elicit sustainable behavioral change and preparation.



Mental Health Impacts of Climate Change



Perception of climate decline are causing rising levels of secondary trauma:

- Moral distress
- · Compassion fatigue
- Hopelessness
- Helplessness

Psychological
Effects of
Extreme
Weather
Events



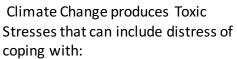
Research shows that 25-50% of the people impacted by extreme weather events experience:

- Anxiety Depression
- PTSD Increased suicides
- Family dysfunction

Mounting
Levels
of Vicarious or
Secondary
Trauma



Psychological
Effects of
Rising
Temperatures



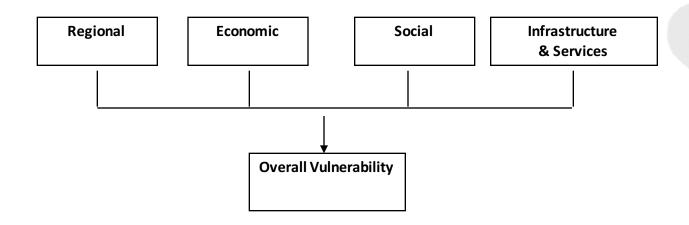
- Long Term Heat waves and droughts
- Emerging and reemerging infectious disease
- Job loss
- Disruption of social networks

Increasing Levels of Chronic Toxic Stresses Experimental and correlational research shows a casual relationship between rising heat and:

- Increased interpersonal aggression
- Assault
- Rape
- Increased abuse of alcohol and drugs

Vulnerability

Degree to which individuals and systems are susceptible to, or unable to cope with, the adverse effects of climate change, including climate variability and extremes Integration of:



Need to identify and address the vulnerability components individually and together for specific communities

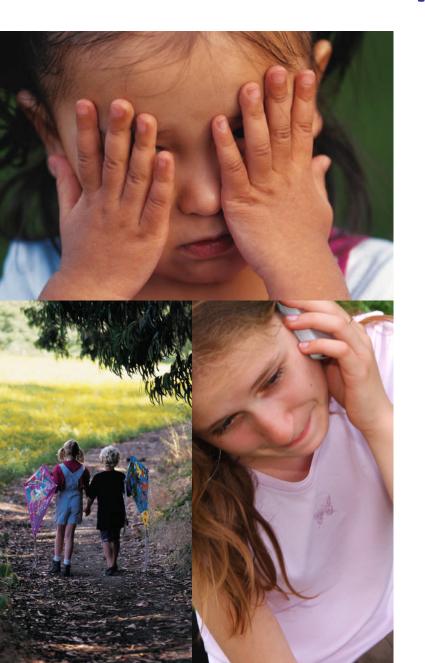


Vulnerable Populations

- Chronic medical conditions including mentally ill, clients with special needs
- Socially isolated
- Costal Communities
- Poor & vulnerable communities
- Subsistence Farmers
- Required medical treatments (Dialysis)
- Outdoor workers
- Very young children
- Elderly suffer the greatest effects of heat-waves (impact on mortality greater in women)



Vulnerable Populations: Children



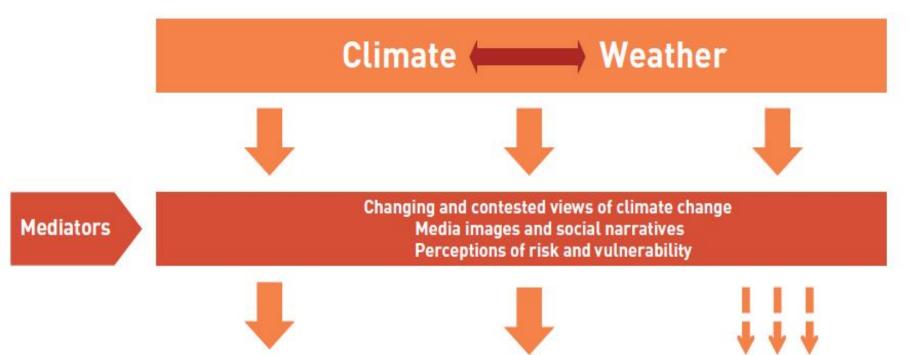
Children may understand and experience the threat of climate change very different than their parents or grandparents

Children so troubled by the state of the world that they honestly believe it will come to an end before they get older

The psychological impact on children has been compared to the impact on children worried about nuclear arms during the Cold War Era

Children are more emotionally vulnerable to increased family violence and the occurrence of natural disasters

Fig. 1
The psychological impacts of climate change and extreme weather



Moderators

Sources of Vulnerability & Resilience, Time Scale

Direct & Acute Impacts

- Extreme Weather
- Heat, Drought, Floods
- Landscape Changes
- Impaired Place Attachment
- Mental Health Issues
- Psychological Trauma

Psychosocial Impacts

- Chronic Disaster Adjustment
- Heat-related Violence
- Intergroup Conflict
- Displacement & Migration
- Reactions to Impact Disparities
- Decreased Access to Thriving Ecosystems

Indirect Impacts

- Anxiety & Worry
- Depression & Despair
- Grief & Mourning
- Unconscious Defenses
- Numbness & Apathy
- Vicarious Psychological Trauma

Disasters and Mental Health

Individual Vulnerabilities:

- Proximity to the disaster
- Low socioeconomic status
- Low social connectedness
- Existing mental illness

Community Vulnerabilities:

- Outdated emergency plans
- Shortage of mental health resources at time of event
- Repeated exposure to disaster or crisis





Mental Health Impacts of Climate Change

Personal reactions to the awareness of climate change include:

- Sadness
- Depression
- Anxiety

- Fear
- Helpless and Hopeless
- Anger

After the Disaster: Mental Health Outcomes are Cumulative:

- Displacement
- Family Illness or Death
- Fractured Social Networks
- PTSD

- Lack of Housing
- Loss of Control Over Life/Confusion
- Loss of Employment
- Loss of Personal Possessions

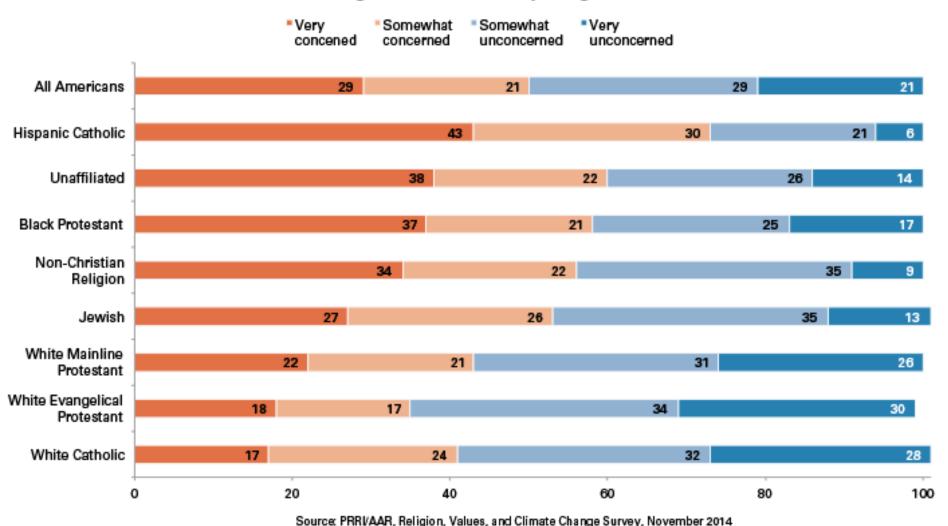
Living in Areas Prone to Disaster:

 Cumulative Mental Health Impacts are Associated with the Repeated Exposure to Natural Disaster Ongoing uncertainty, anxiety, dread can cause a build up of stress before disaster occurs

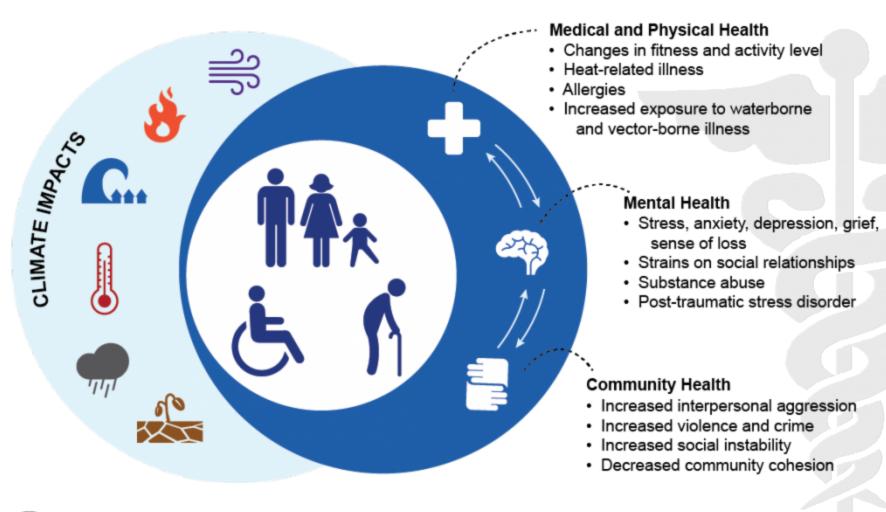


Climate Change and Religious Affiliation: What is the Message?

Climate Change Concern Index by Religious Affiliation



Climate Change: Health Effects Continuum





Psychological/Psychosocial Impacts of Climate Change







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