

# Cross-cultural approaches to understanding the emotional geographies of climate threats in four island nations



DECISION CENTER FOR A DESERT CITY

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### Introduction

- The Global Ethnohydrology Study (GES) is a multi-year, transdisciplinary study examining local ecological knowledge of environmental issues related to water
- The 2014 GES used semi-structured interviews to understand respondents' emotional reactions to past, present, and future climate change issues

## Why Emotion?

- Emotional geographers argue that emotion is key to understanding how people live in and experience the world around them
- Emotion has largely been relegated to the private realm, but is necessary to understand motivations and decision-making

#### **Site Selection**

- The IPCC argues that island nations are particularly vulnerable to the effects of climate change including:
  - •sea level rise
  - coastal erosion
  - changing freshwater access
- A total of 272 respondents participated in four island nations:
  - Viti Levu, Fiji: 68
  - Nicosia, Cyprus: 40
  - Wellington, New Zealand: 86
  - London, England: 78

#### Methods

- Used MAXQDA to autocode interviews for emotion terms
- Conducted keywords-in-context analysis (KWIC) to understand how people used emotion words

# Research Questions

Are there consistent, observable gender differences in the degrees and forms of emotion expressed in relation to climate change threats?

#### Themes Identified from Interviews London, United Kingdom Viti Levu, Fiji Nicosia, Cyprus Wellington, New Zealand Women Women Men Men Women Men Women Sad For the For the For the Changes to Changes to Changes to Changes to local younger younger environment generation Changes to Nostalgia Changes to Might cause Nostalgia; Sad to see Changing hardship for traditions in local sadness at sadness at changes to environment environment local people countryside how how younger environment making a For the will affect generation will make it younger living off the won't have hard for and home generation younger younger won't have generation land generation the same anyone to Nostalgia; Changes to make a the same experiences living sadness at experiences local Changes to Changes to environment how younger Loss of local environment generation **Anticipated** won't have tradition; environment potential hardships the same hardship at experiences loss of plants and animals opportunities At inability to For the At inability to At inability to • At others At others At others Angry Other Others are cause change Others are younger For family and not taking generation change change (for people do not taking Loss of a For the responsibilit responsibili not care younger younger enough to good future future, for for actions for actions generation generation) children Sense of ensure that anger at political succeed structure's failings

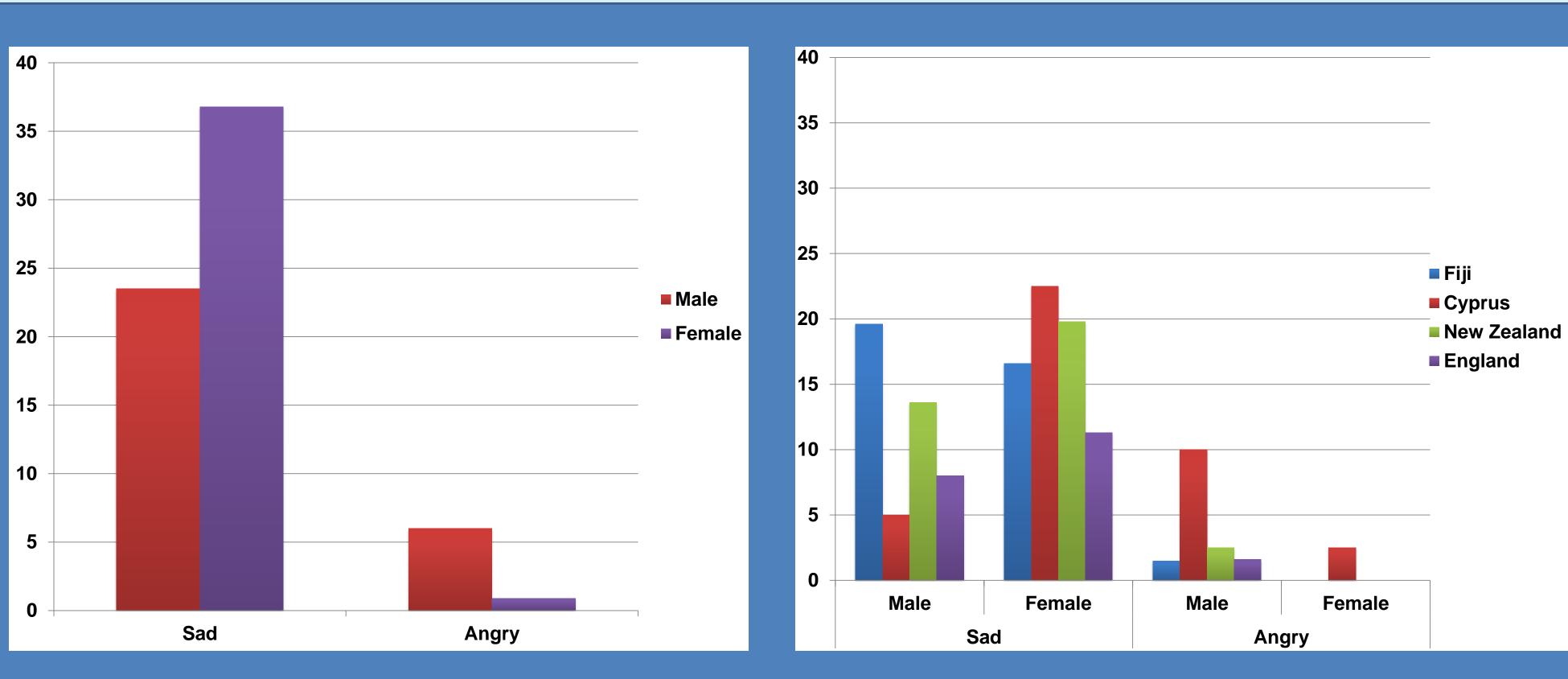


Figure 1. Showing the number of times "sad" and "angry" were used between men and women.

Figure 2. Showing the number of times "sad" and "angry" were used by gender and site.

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#### Results

- Men were significantly more likely to say that they were angry:
  - "It makes me angry that people don't want me to succeed and be happy. I'm frustrated as well" (New Zealander respondent)
- Women were significantly more likely to say that they were sad:
  - "I [feel] sad. Life will be hard for people in the future. [The] soil and fruits could be different" (Fijian respondent)

#### Conclusions

- Women in more biophysically vulnerable communities were more likely to talk about their sadness in the context of changes to the local environment
- Women in less biophysically vulnerable communities were more likely to talk about their sadness in the context of the younger generation not having the opportunities they had
- Men in more biophysically vulnerable areas were angry about changes to the local ecology; only one Fijian respondent said he was angry
- Men in less biophysically vulnerable areas were angry about the way that climate change was affecting them and their outcomes personally
- Anger may be an important motivating factor for men
- Women may experience poor mental health outcomes as a result of their sadness