



Advancing Climate Justice and Undergraduate Research Capacity Building in the Americas

2024 Annual Meeting of the U.S. National Section

April 10, 2024, Washington, D.C.

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Climate Change Conference, Denmark, 2010



Public Health

COLLEGE OF LIBERAL ARTS AND SCIENCES
UNIVERSITY OF COLORADO **DENVER**

Agenda

- Introduction
- Research Overview
- Undergraduate Research Capacity Building (CECJ ThinkLab)
- Current Projects
- Implications
- Opportunities

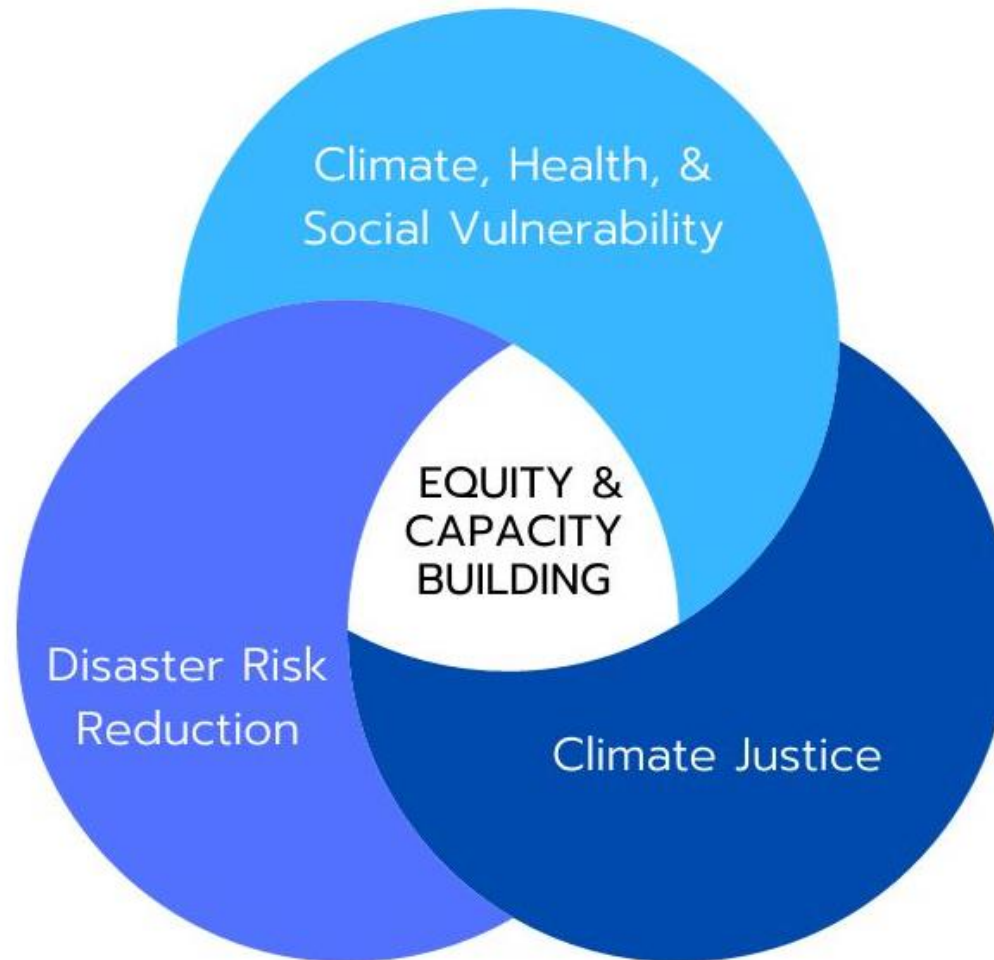
Introduction

- Clinical Assistant Professor, CU Denver (Health & Behavioral Sciences)
- Originally from Quito, Ecuador
- Health-environment, Climate-Society Geographer (Michigan State University, Columbia University, CUNY)
- Specializations in Development Ethics & Community Engagement
- Latin Americanist, Capacity Building
- Geography Commission, U.S.N.S. member since 2022



Visiting the Instituto Geofísico del Perú, Lima, Perú, 2022

Research Overview



Intersections of Research & Capacity Building Interests

Undergraduate Research Capacity Building



A Critical Research Forum for Undergraduates

Funding by CU Denver Office of Undergraduate Research and Creative Activities and EURēCA!

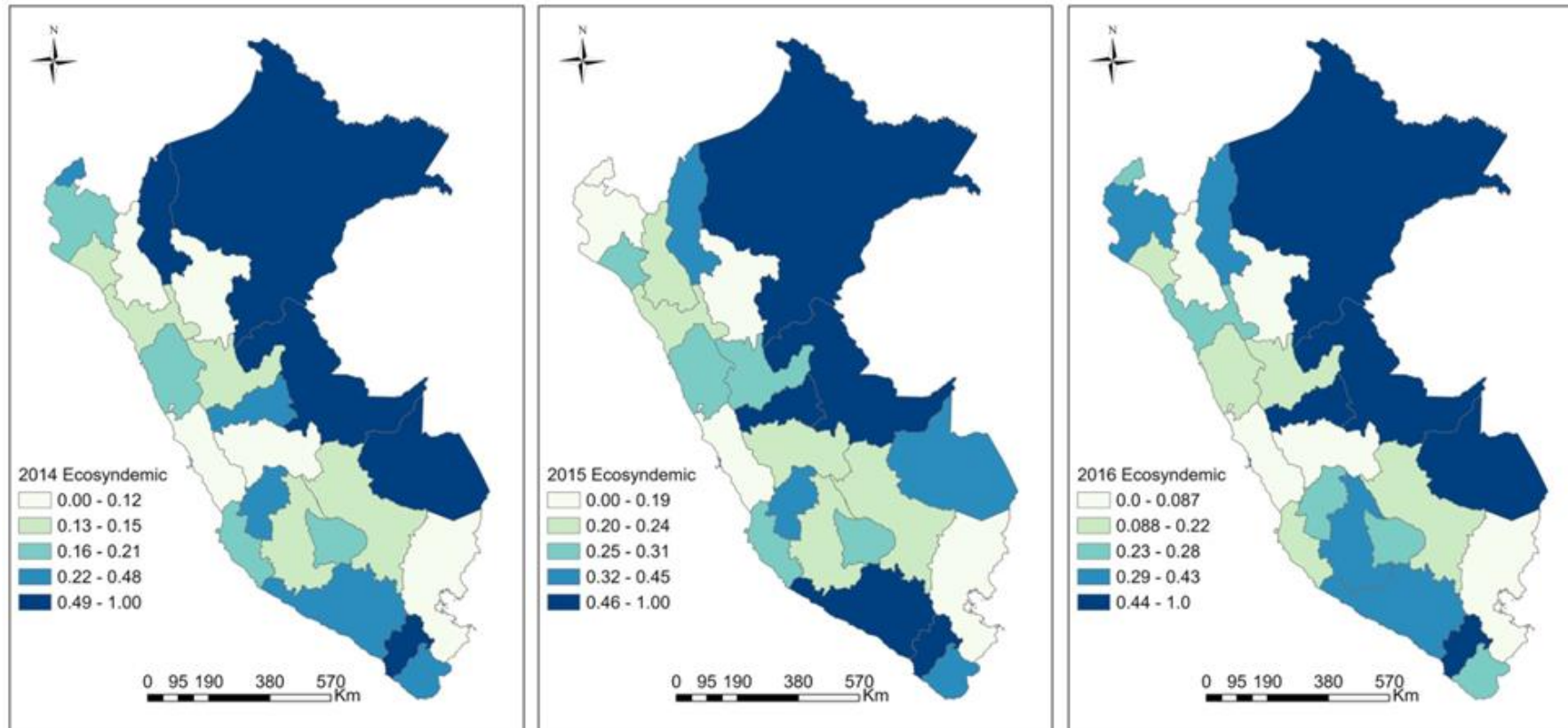


CECJ Undergrad Team

[Think Tank/Research Lab](#) launched in 2023

Climate, Health & Social Vulnerability

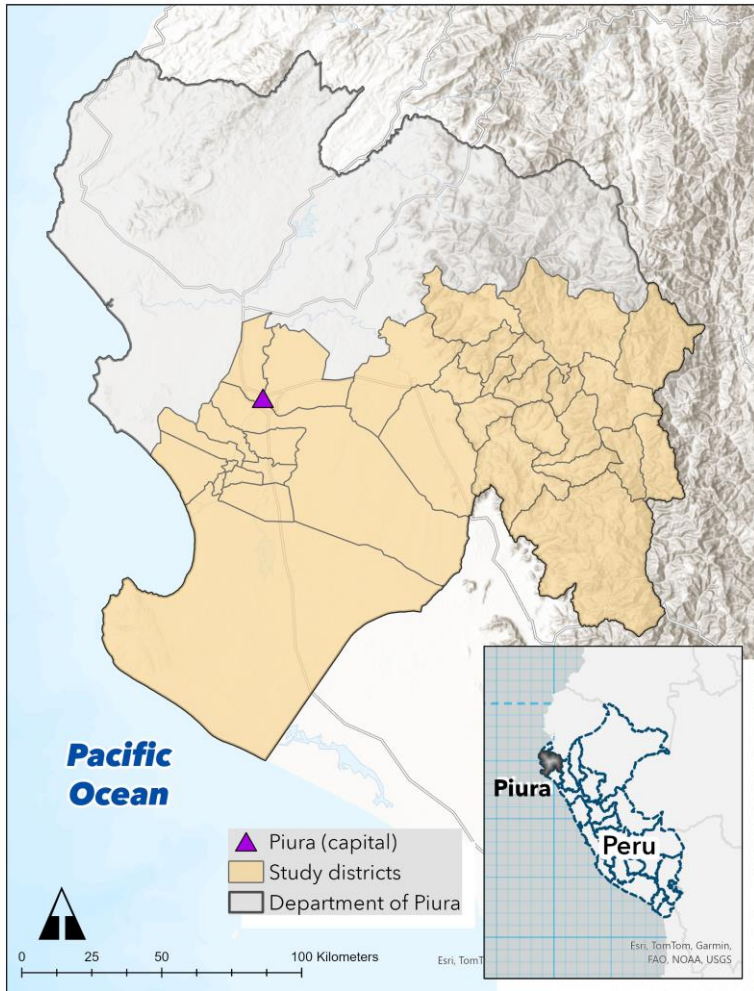
Project 1 (Ecosyndemic Health)



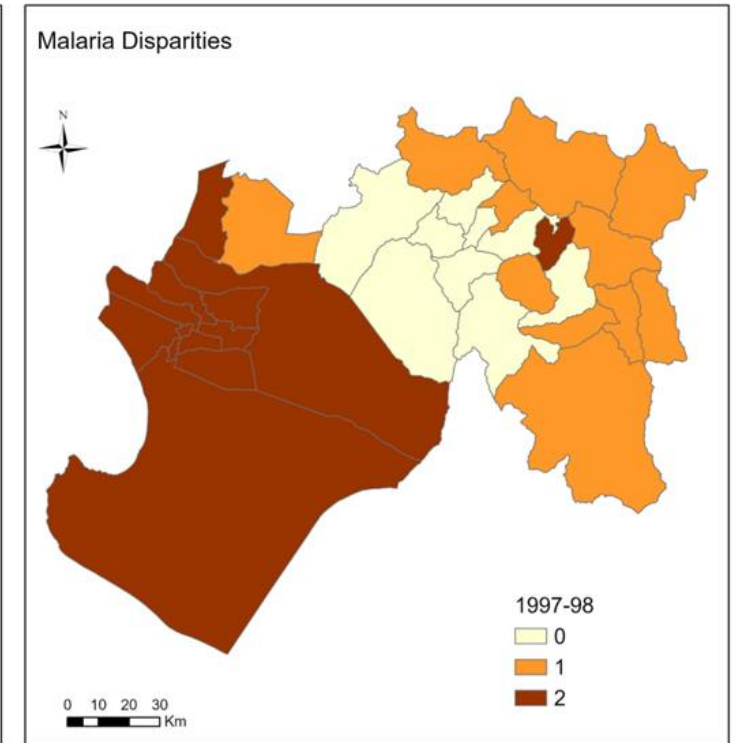
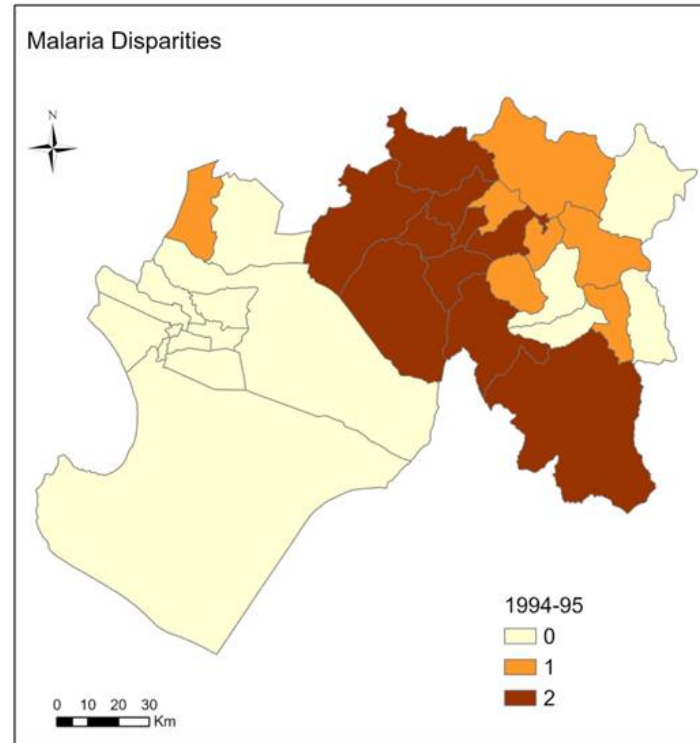
Mapping disease convergence across Peru, 2014 to 2016
(manuscript in preparation)

Climate, Health & Social Vulnerability

Project 2 (Dual Malaria Impacts)



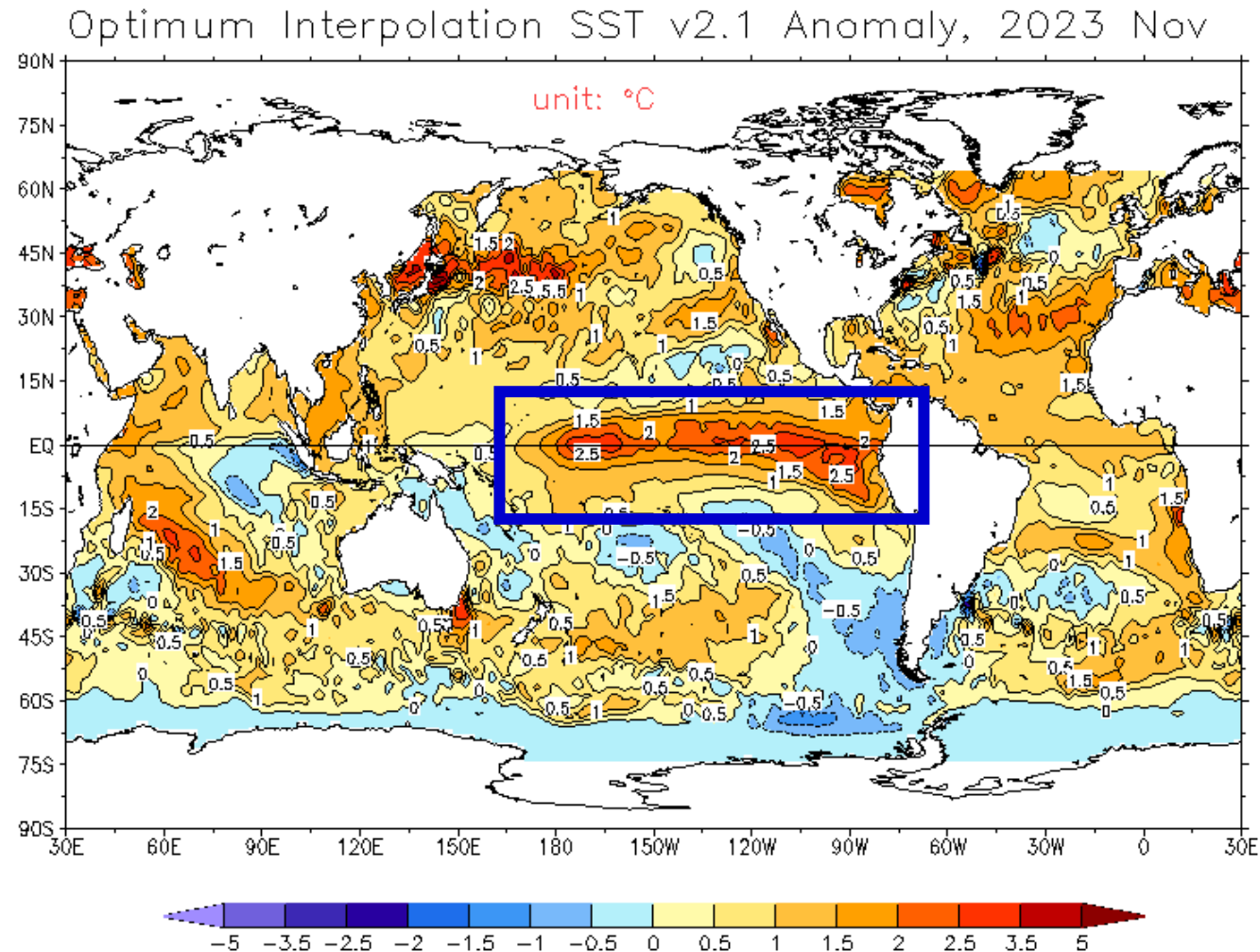
Study Area: Piura, Peru



Retrospective mapping of dual malaria
disparities in northern Peru, 1990s
(manuscript in preparation)

Disaster Risk Reduction

Project (Multi-Country Comparative Analysis of How El Niño Evolved)

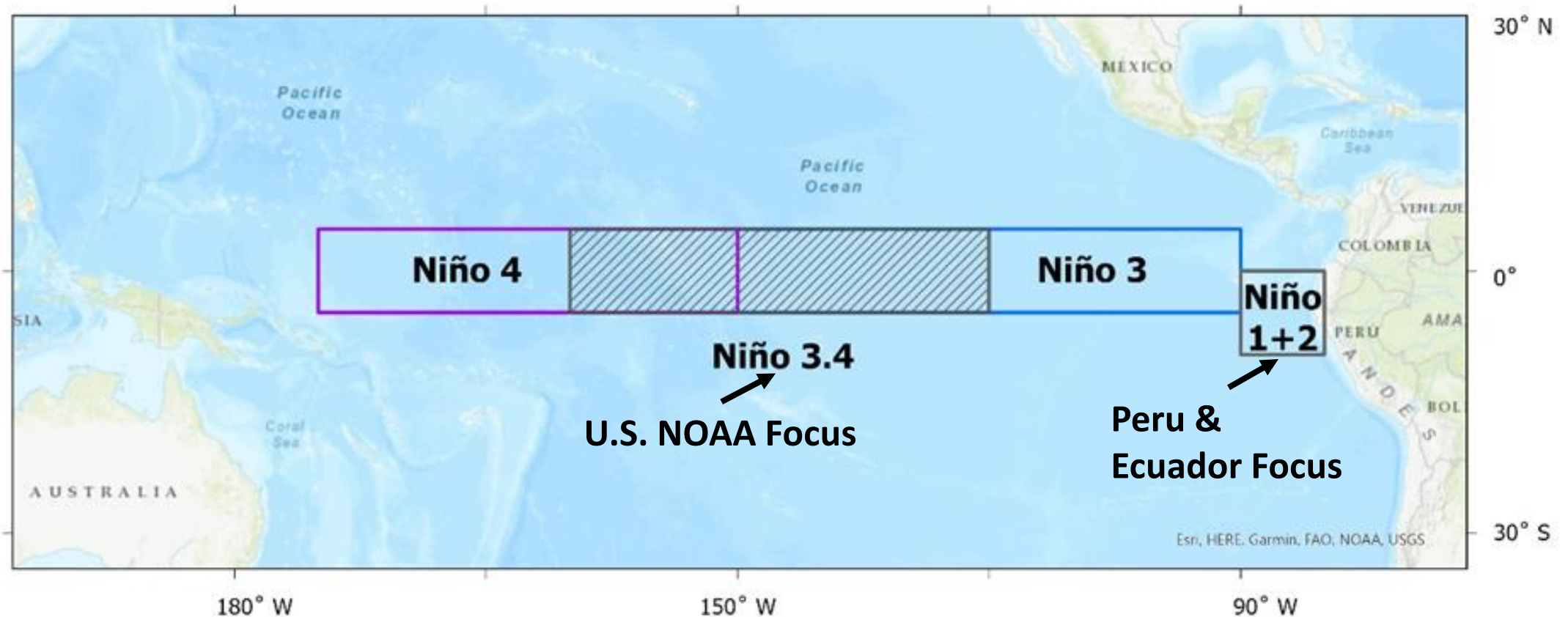


Sea surface temperature anomalies in Nov. 2023

Disaster Risk Reduction

Focus on the Quantitative Definitions of El Niño

Regions associated with ENSO monitors and National Oceanic and Atmospheric Administration



Does the definition affect perception of risk and societal responses?

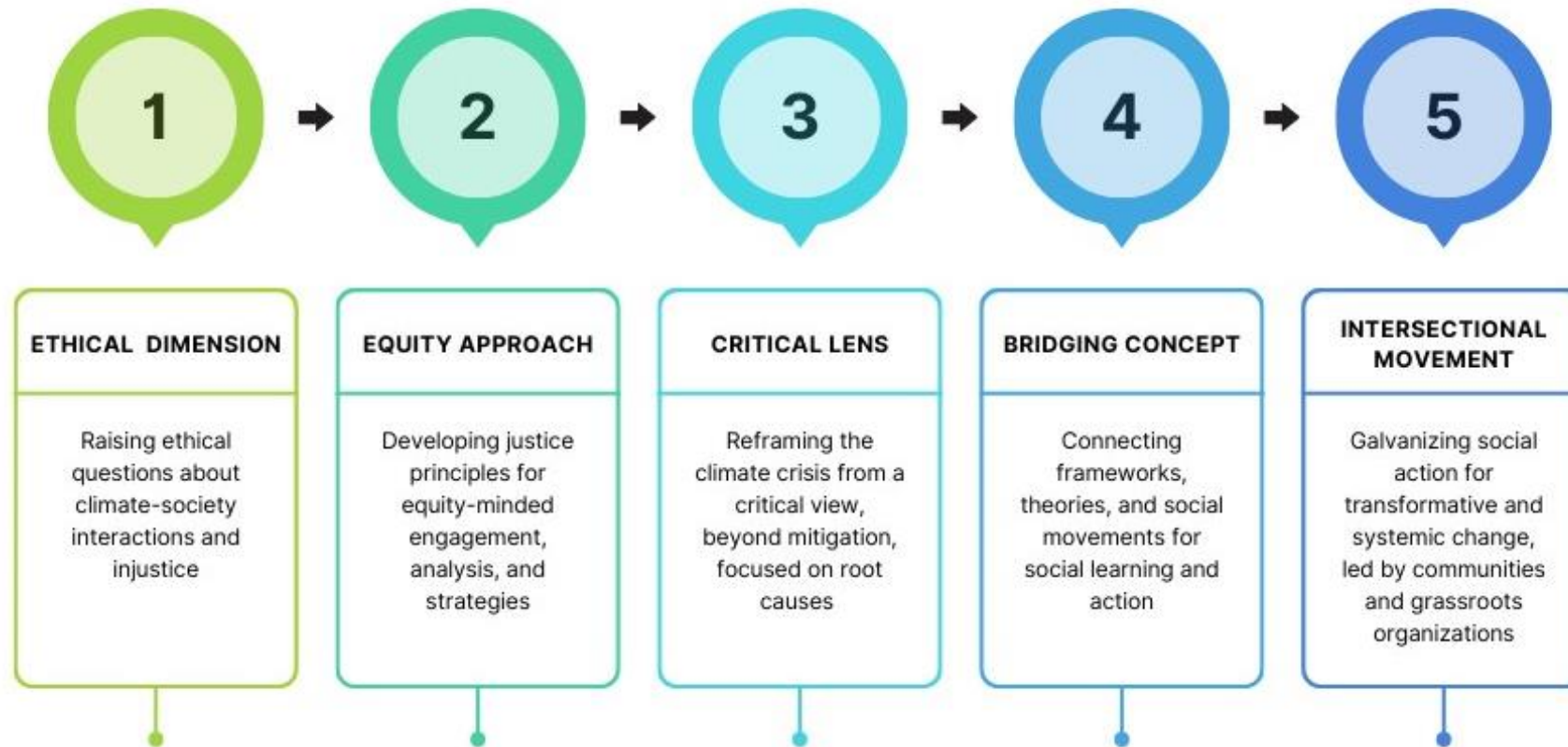
Disaster Risk Reduction

Focus on El Niño Impacts (Next Phase)



Hydromet hazards & disasters in Latin America

Climate Justice



Guide for praxis of research, teaching, activism, and policy

Uneven impacts

Root causes of vulnerability

Equitable collaborations

Asset-based framing

Regional climate knowledge

Climate Justice

StoryMap Example about African-led COVID-19 Initiatives

Health Capacity Building in Africa: Lessons from Senegal

By Manaar Khan & Ivan J. Ramírez

This project was funded by the Boston University African Studies
Center, Course Enhancement Grant.
May 25, 2023



<https://storymaps.arcgis.com/stories/4800440edc32444da3e0e56a71e63287>

Big Picture (Policy Implications)

- Training the future generation of inter- and multidisciplinary scholars and practitioners (cross-disciplinary, cross-cultural workforce)
- Multi-risk reduction strategies, Ecosyndemic geospatial surveillance and monitoring system, Web-based tools, StoryMaps
- Integration of regional definitions to enhance early warning/early actions for El Niño
- Integrating equity into and improving climate, health and disaster planning

Big Picture (Collaboration Opportunities)

- Research and capacity building collaborations
- University-governmental, multi-lateral, cross-country partnerships
- Internships, Study abroad

Thank You!
Questions?