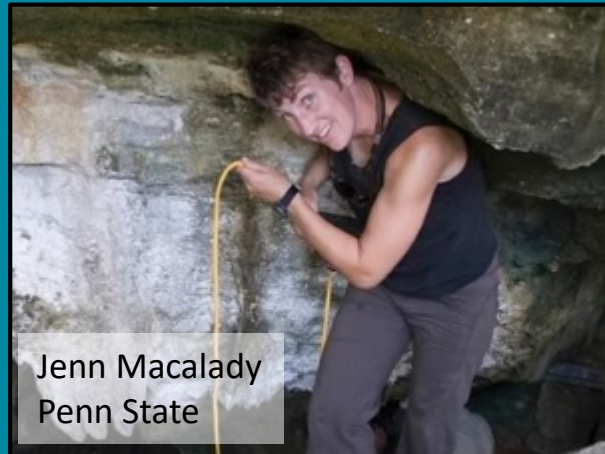


THE STEERING COMMITTEE



Jon Martin
University of Florida



Jenn Macalady
Penn State



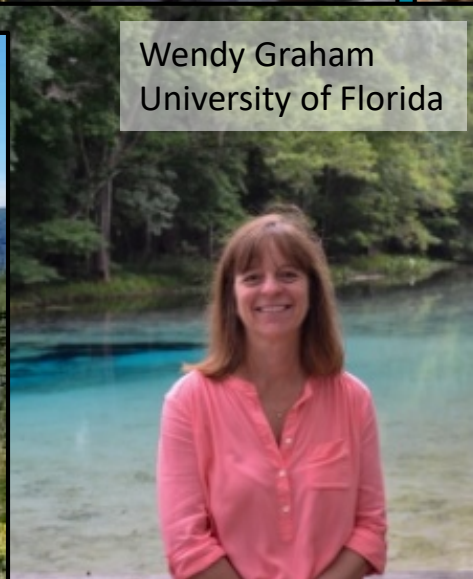
Matt Covington
University of Arkansas



Ángel García
James Madison University



Pam Sullivan
Oregon State



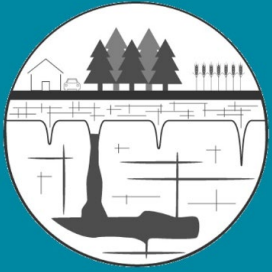
Wendy Graham
University of Florida



Jim Heffernan
Duke University

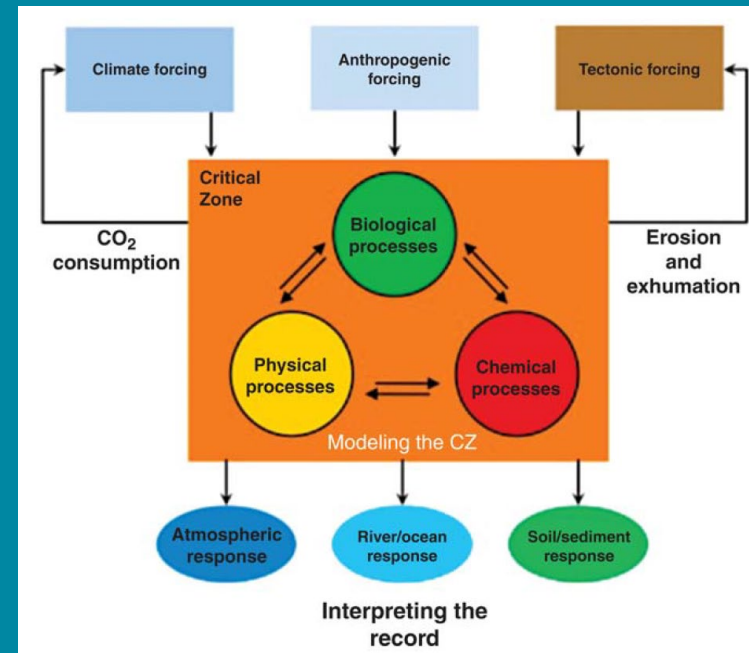
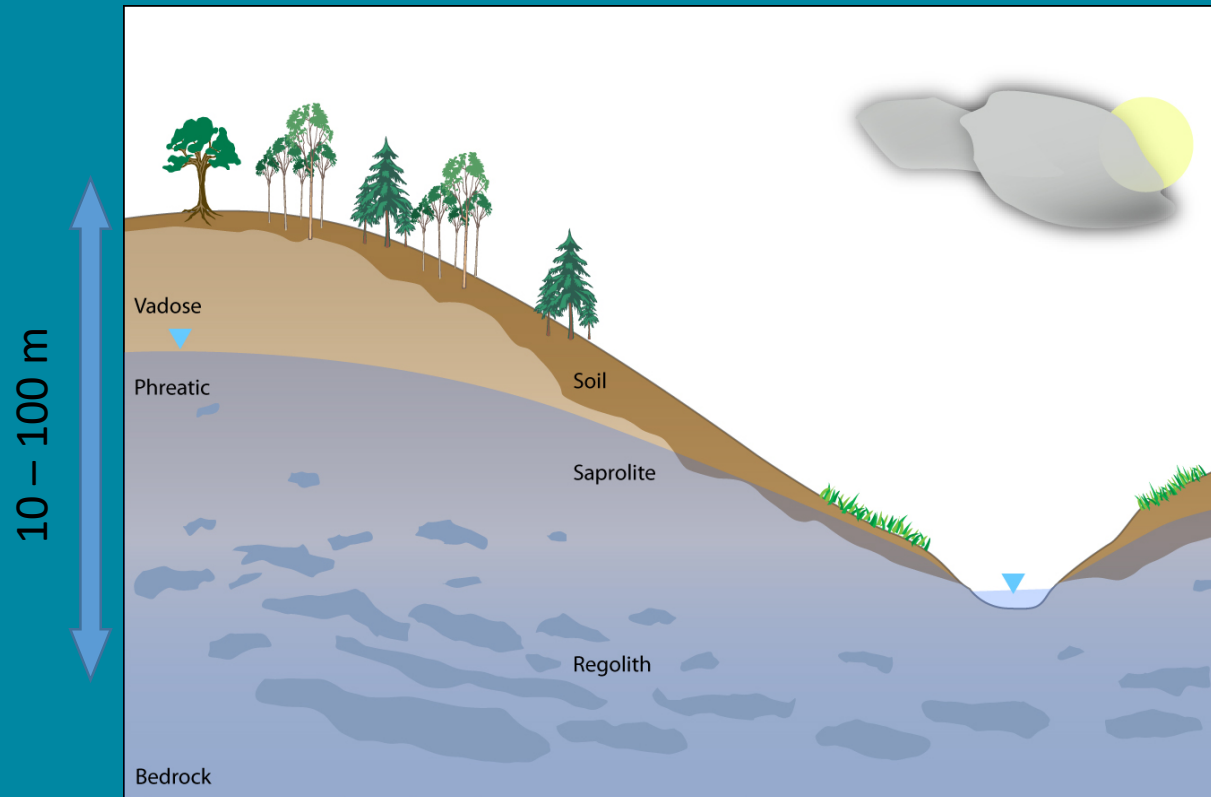


Laura Toran
Temple University



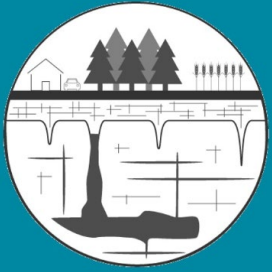
RCN MOTIVATION

A generic “end-member” of the CZ:
silicate mineral substrate



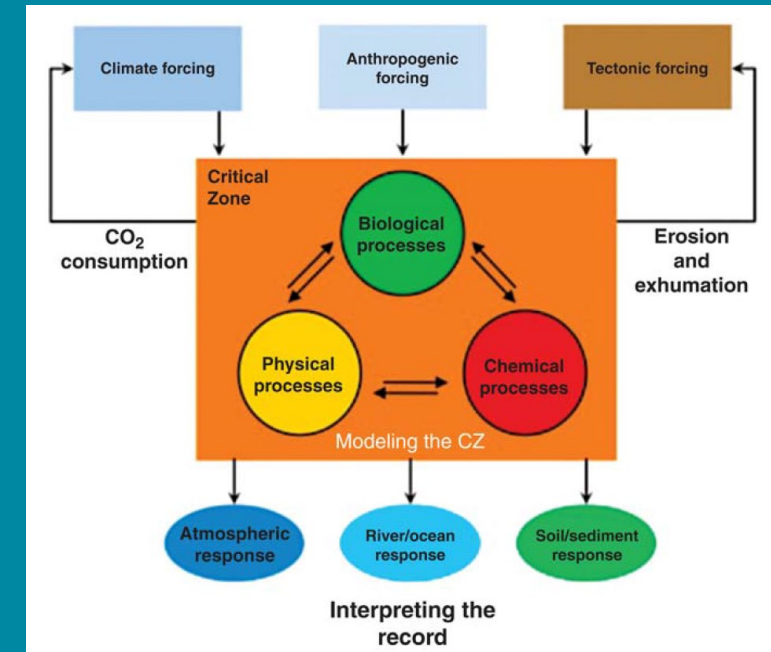
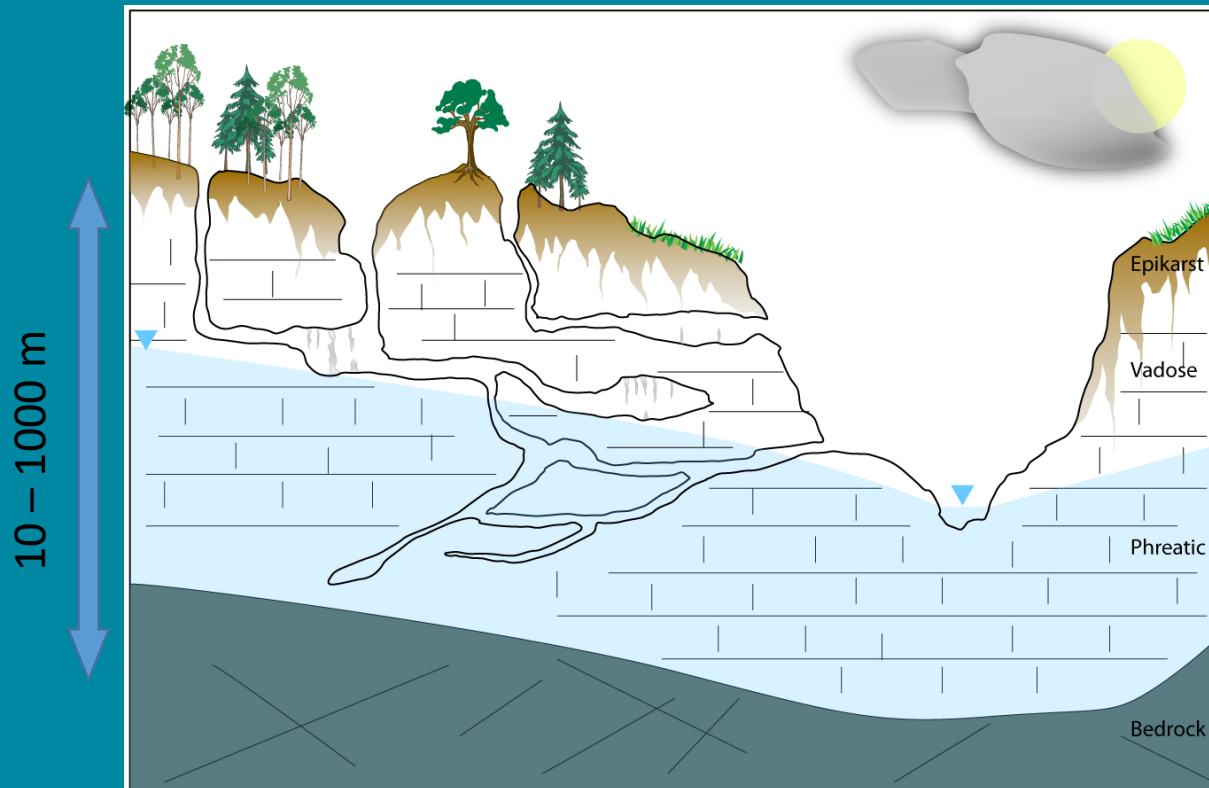
Brantley et al., 2007

- The Earth’s Critical Zone
 - Top of canopy to base of groundwater
 - Weathering: bedrock → regolith → saprolite → soils → erosion
- Controls of characteristics
 - External drivers
 - Internal processes
- Important responses to global environments
- This cartoon represents lithology of predominately silicate minerals



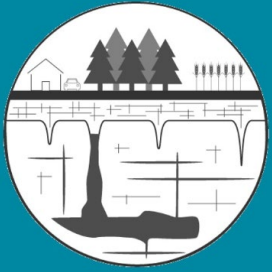
RCN MOTIVATION

Another generic “end-member” of the CZ:
carbonate mineral substrate



Brantley et al., 2007

- What happens when the CZ is composed of carbonate minerals
- External forcing are the same
- Internal processing differs
 - Congruent rather than incongruent weathering
 - Heterogeneous permeability distribution
 - Length scales larger (depth/laterally)
- Are global responses different?



RCN NETWORKING

Research

Coordination

Network



- Integrate the “carbonate” community:
 - The community is notoriously independent
 - Many differing views that may focus on characteristic of a particularly site
 - Hope to provide an organization in which we pull toward common goals
- Expand community
 - Increase diverse backgrounds & views

Diversity, equity, and inclusion are paramount in this RCN

Diversity, Equity, Inclusivity

The Carbonate Research Coordination Network (RCN) stands in solidarity with our Black colleagues and recognizes the need to take action in a meaningful way to eradicate systematic discrimination and racism, and increase diversity within the geosciences community.

Diversity, Equity, Inclusivity

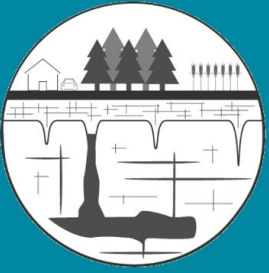
- We are committed to take concrete action by designing and conducting activities and interactions that achieve our goals of building community and promoting diversity as well as inclusive and equitable participation in the Carbonate RCN. We recognize the efforts by other institutions and groups (i.e. [A Call to Action for an Anti-Racist Science Community from Geoscientists of Color: Listen, Act, Lead](#) and [Call for a Robust Anti-Racism Plan for The Geosciences](#)) and we support them. We invite all our participants to join us on this endeavor to create an academic space where:

Diversity, Equity, Inclusivity

- We acknowledge and value diverse experiences of our participants;
- We question unspoken rules that promote discrimination and racism, without repercussions;
- We acknowledge the inequities inherent to fieldwork and affirm that cutting-edge geoscience happens in many different spaces among different identities;
- We promote and sustain a zero-tolerance culture towards racism, sexism, and homophobia;
- We actively elevate the discussions on Diversity, Equity, Inclusion, Access and Justice

Diversity, Equity, Inclusivity

We recognize these efforts within the Carbonate RCN represent only small steps toward equity; only through such small steps is societal change possible on a broader scale



RCN NETWORKING

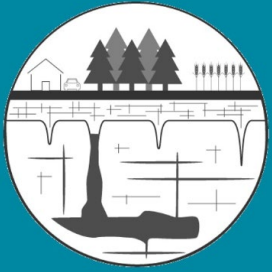
Research

Coordination

Network



- Survey
 - Assess, monitor and adaptively manage the network
- Multiple surveys to identify:
 - Who is participating?
 - Are participants diverse?
 - What connections develop among participants?
 - What connections can we foster among participants?
 - Are we being successful?
 - How can we be more successful?



RCN RESEARCH

Research

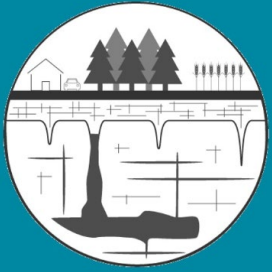


Coordination



Network

- We have the opportunity to plan research
 - What are the most important questions about carbonate CZs?
 - What hypotheses spring from those questions?
 - What are the best methods for testing those hypotheses?
- Planning requires justification:
 - How will results of hypothesis testing advance understanding of carbonate CZs?
 - How will new understanding of carbonate CZs advance general CZ science?



RCN RESEARCH

Research

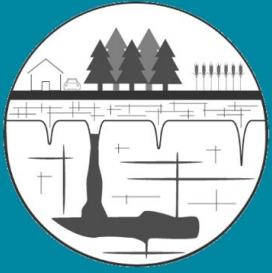


Coordination



Network

- Many possible activities:
 - Brainstorming
 - Compilation of data and/or metadata
 - Identification of missing important data
 - Synthesis and interpretation of available data
 - Develop training programs
- Document:
 - Publication of new results from old data
 - White paper results of RCN activities
- Others?
 - The RCN is a community effort



Questions and Discussion

