

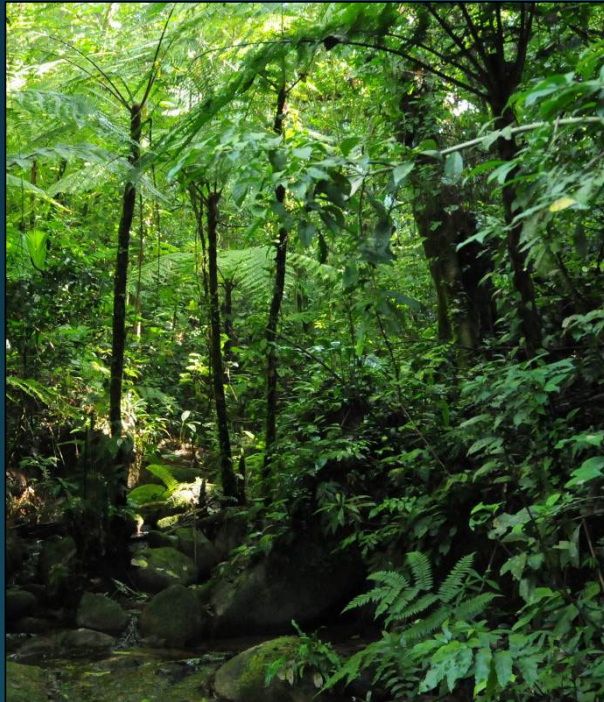
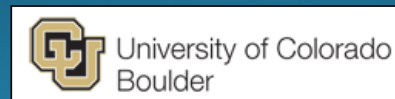
# Conservation Biology & Practice in Brazil's Atlantic Forest

## EBIO / ENVS 4340 (4 Credits)

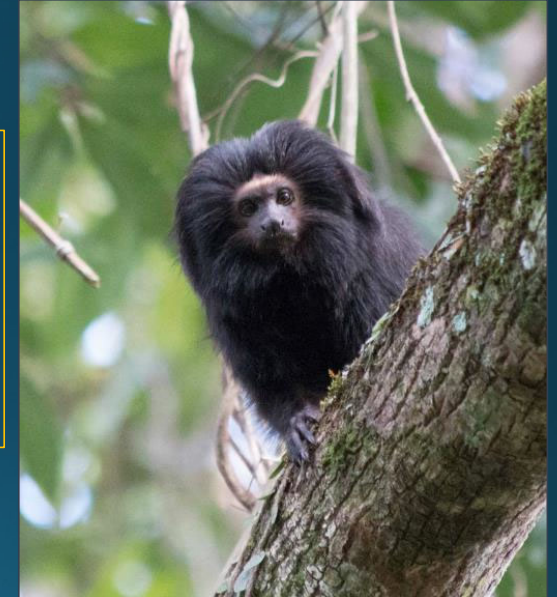
Global Seminar  
May 2025

**Correction to meeting time:**  
**Information Meeting**  
**Tuesday 19 Nov, 5:00pm**  
**C4C S350**

**Dr. Tim Kittel**  
Faculty Director, Brazil Program  
**Prof. Derek Sweeney, EBIO**  
Instructor



All photos (c) T Kittel  
unless otherwise indicated



Black Lion Tamarin

Photo – Gabriela Rezende

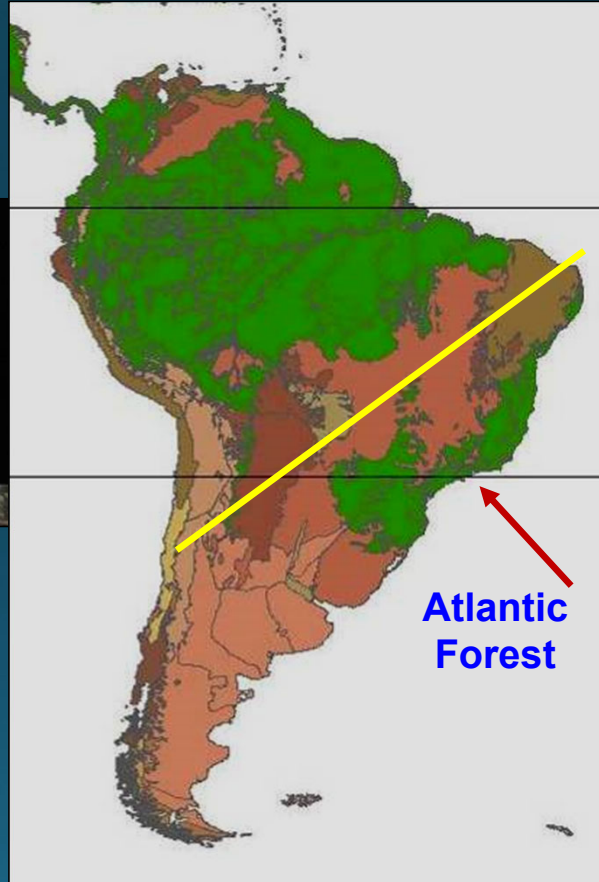
# Learn about Brazil's other tropical forest — The Atlantic Forest

High Biodiversity ... .. under High Threat

High floral & faunal endemism –  
40% Vascular Plants, 15% Birds  
27% Mammals, 62% Amphibians



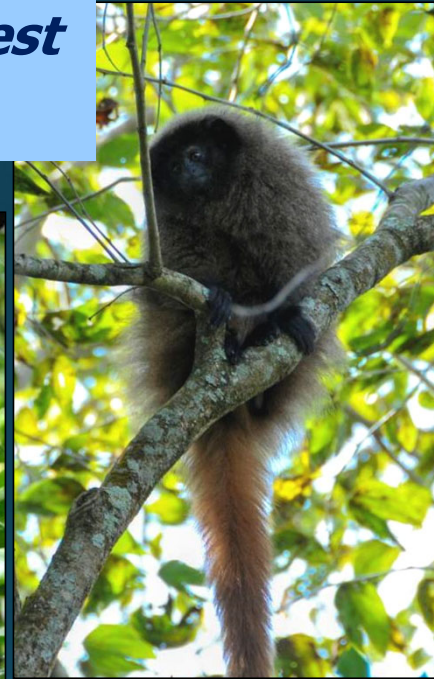
Tree Frog



Atlantic Forest



Bromilia



Titi Monkey



Greenheaded Tanager



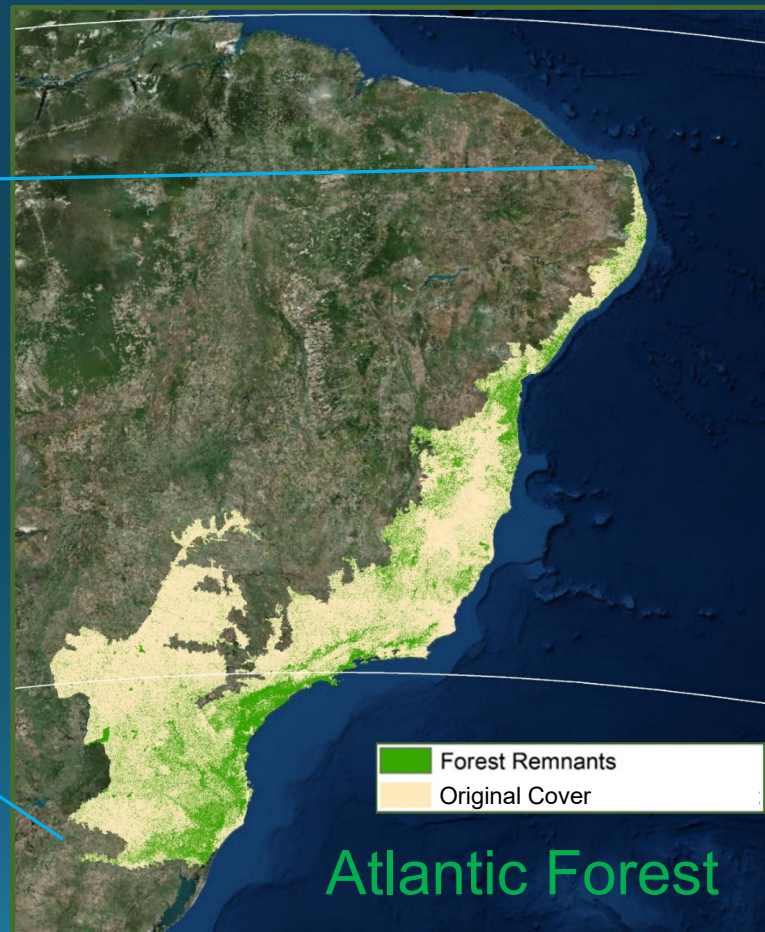
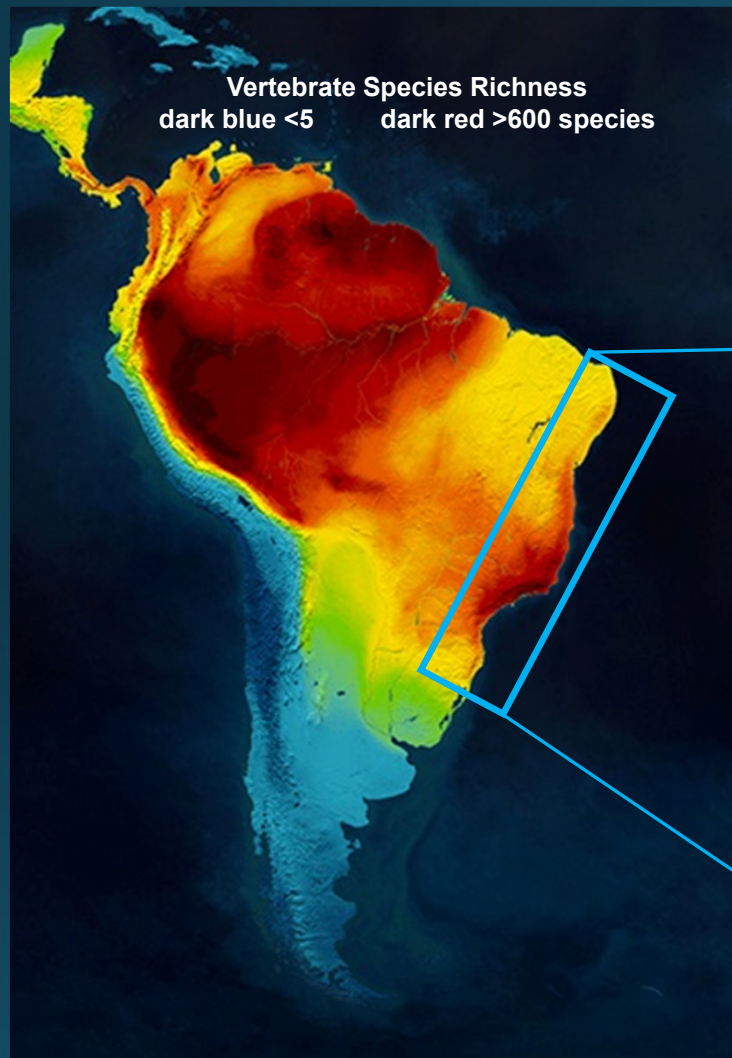
White-eared Opossum

All photos from program



## High Biodiversity ... under High Threat

Only 10-12% remains



# High Biodiversity ... under High Threat



Small & Large-scale Agriculture  
— Dairy, Cattle, Sugarcane



Cattle Pasture



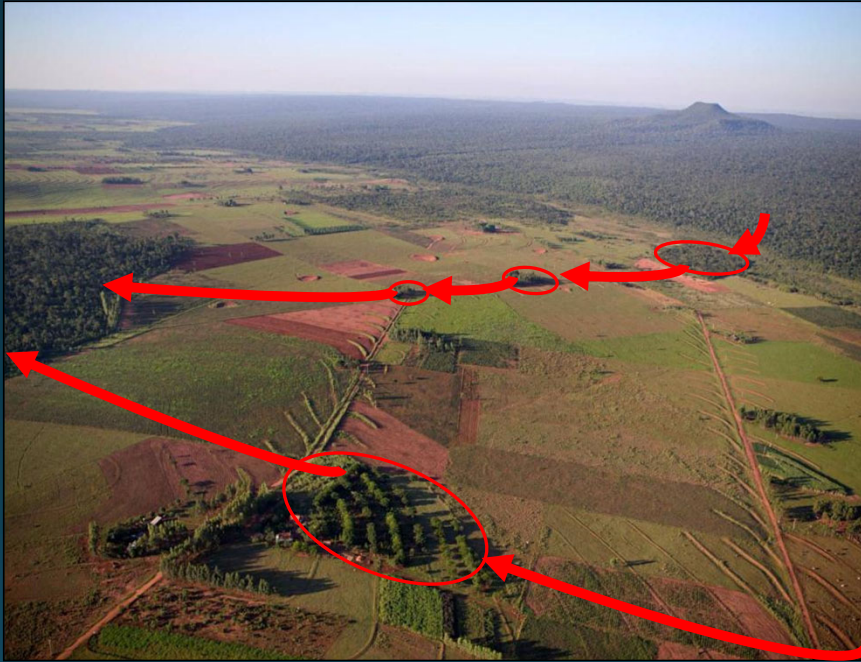
Eucalyptus  
Plantation

*Fragmented, Human-occupied Landscape*



# Hands-on experience with conservation practice in a human setting

Couple biological understanding with socioeconomic context



Forest-Coffee  
Ecological Stepping Stones



Conservation Biologist  
and Forest-Coffee Grower

## ***Host Institution —***

- **IPÊ: Institute of Ecological Research**
- **Brazilian environmental NGO**
- **Integrated local community-led conservation programs**
- **30+ years conservation action**





# Integrated Local Community Conservation Programs —

## Species Biology

– *What makes a species vulnerable?*



Black Lion Tamarin

## Restoring Landscape Integrity – *Corridors*



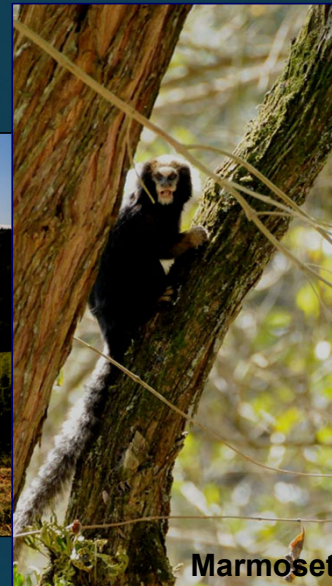
## Socioeconomic Development Linking Community & Conservation Goals

– *Artisanal Forest Coffee*  
*Shade coffee with native trees*  
→ *Conservation stepping stones*





# Three Locations in Brazil —



Marmoset

Nazaré Paulista

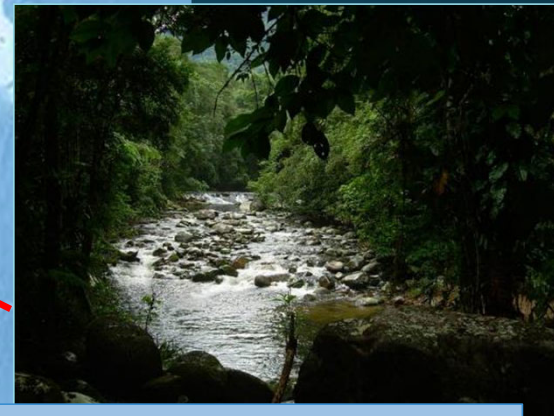


Pontal do Paranapanema



Rio de Janeiro

São Paulo



Serra do Mar Biodiversity Corridor



## 4 days in the Serra do Mar Biodiversity Corridor

❖ **Conservation corridor 1000 km along South Atlantic coast**



Ariel Toucan



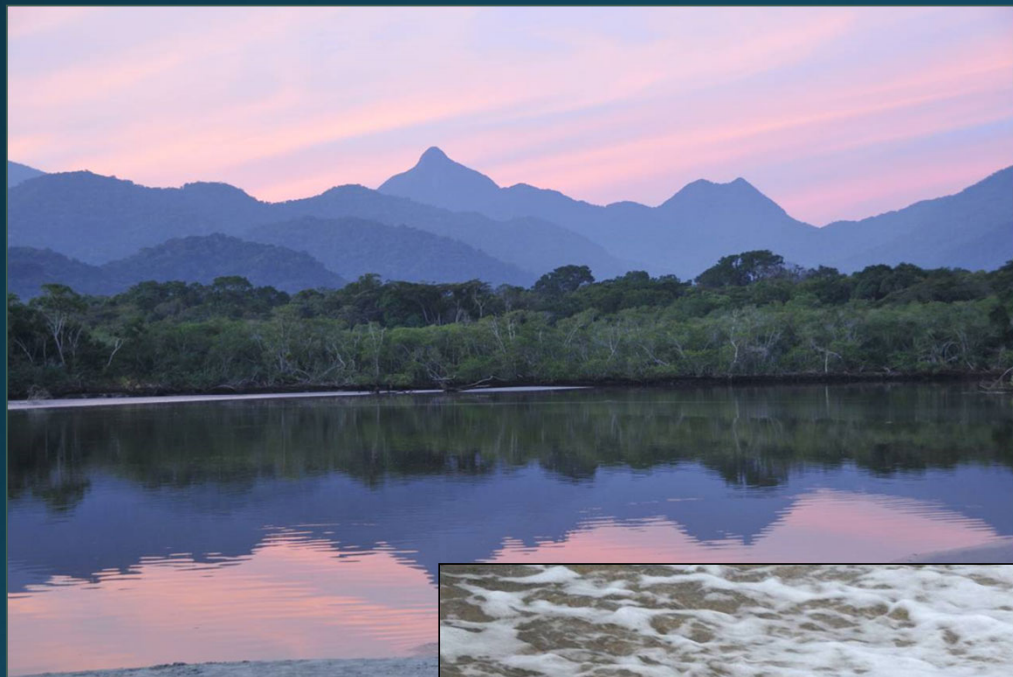
Palm prop roots



Lower Montane Atlantic Forest

## 4 days in the Serra do Mar Biodiversity Corridor

❖ **Conservation corridor 1000 km along South Atlantic coast**



Mangrove



Sea Turtle Conservation





## Embedded Subsistence Communities —

❖ **400-yr old – Quilombos**



**Cambury Quilombo**  
Conflict Resolution

Primary Forest

**Serra do Mar Biodiversity Corridor**



# Cultural Activities —



Brazilian Food



Capoeira Academy



Town Market





**Beach Time**



**Mountain Stream Swim**



**Tri-colored Heron**



# ***Conservation Biology & Practice in Brazil's Atlantic Forest***

***Maymester 2025 (3 weeks)***

**4 credits – EBIO/ENVS 4340/5340**

**Meets ENVS, EBIO, GEOG, & IAFS requirements**

***Correction to meeting time:***

**Information Meeting**

**Tuesday 19 Nov, *5:00pm***

***C4C S350***

**Application Deadline — 1 December**

**Info & Apply:**

**<http://abroad.colorado.edu/?go=BrazilGS>**

**email: [kittel@colorado.edu](mailto:kittel@colorado.edu)**



*Reforestation*



photo by Alexander Menk