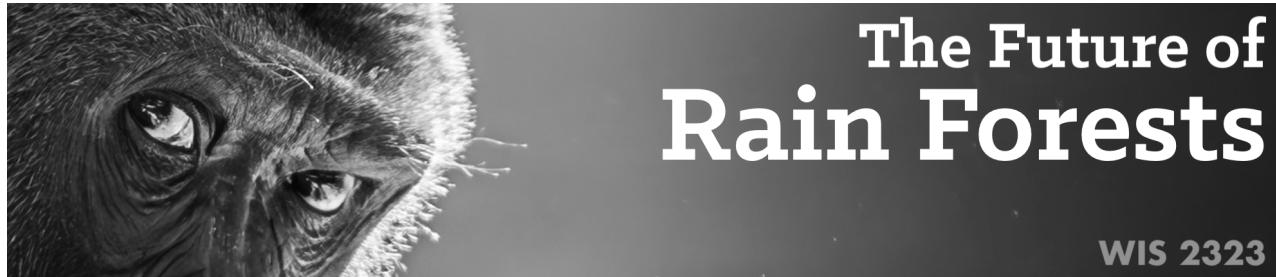


Syllabus



This course investigates the fundamental issues addressed by scientists studying tropical rain forests, including what gave rise to their remarkable biodiversity, the drivers and consequences of deforestation, why people are fascinated by rain forests, cultural and ecological stereotypes about the tropics, and different approaches to forest conservation and sustainability. *By the end of the course students will be able to:*

- Recognize and describe stereotypes about rain forests & their residents
- Analyze rain forest tropes in art, literature, & popular culture
- Discuss & evaluate hypotheses for the origins and maintenance of tropical biodiversity
- Explain & compare the history and ecological influence of humans in rain forests
- Review contemporary threats to rain forests
- Analyze and visualize data on deforestation
- Review and contrast strategies for rain forest conservation & restoration
- Identify rain forests in their daily lives & set personal goals for advancing their conservation
- Produce materials for communicating about tropical biology & conservation to family and peers

When & Where

When: Tuesdays 3:00-3:50 and Thursdays 3:00-4:55

Where: Tuesday: Little Hall 0101 | Thursday: Little Hall 0231

Instructor & TA

Instructor: Dr. Emilio M. Bruna [embruna@ufl.edu, (352) 846-0634]

Teaching Assistant: Priyanka Hari Haran [phariharan1@ufl.edu, (352) 846-0527]

Credits & Prerequisites

Credits: 3

Prerequisites: None

Quest Program: Quest 2

GenEd Designation: International

A minimum grade of C is required for Quest and General Education credit. Courses intended to satisfy Quest and General Education requirements cannot be taken S-U.

Minors & Certificates

This course counts towards:

- The Minor & Certificate in Latin American Studies. See <https://www.latam.ufl.edu/academics/undergraduate-programs> for more information.

Required Materials

Materials and Supplies Fees: None.

Textbooks to purchase: None.

- All materials, including readings and videos, will be made available on the course Canvas page.
 - *Students should sign up for free online access to the New York Times and Wall Street Journal by following the instructions at [this UF Libraries Website](#)¹.*
-

Office Hours

When

- **Instructor:** Wednesday 1:30-3:30 (in-person and via Zoom, see below for details). You can drop by any time during the session, but if you want to guarantee a specific time slot you can do so by signing up here: <https://embruna.youcanbook.me/>. If you can't make it during the regularly scheduled office hours, you can send a message via Canvas to set up an appointment.
- **Teaching Assistant:** Tuesday 4:00-5:30 pm (in-person & online) or by appointment.

Where

- **In-person:** The Tropical Ecology & Conservation Lab. The lab is located at 711 Newell Drive next to Rawlings Hall (between the bus stop and the parking garage). For directions you can use this [link to the lab on Google Maps](#).
- **Online:** To join Office Hours virtually use the Zoom Conferences link on the main menu of the course Canvas page. We are online the entire session.

❓ Can you give me **one good reason** why I should go to Office Hours?

I can give you **ten**.

1. To introduce yourself.
2. Get clarification on assignments.
3. Argue about a topic that came up in class.
4. Grab a (free) tea, coffee, or espresso in our lab kitchen.
5. Make sure you understood the key points from a class session.
6. Ask for feedback on ideas for course projects.
7. Get advice on successfully navigating academic life at UF.
8. Discuss how to gain experience for your post-graduation goals.
9. Request help arranging a study group.
10. You don't need a good reason...just come on by.

¹Some of the assigned readings from these sources have dynamic multimedia data visualizations or video that can't be appreciated in the .pdf versions posted to canvas.

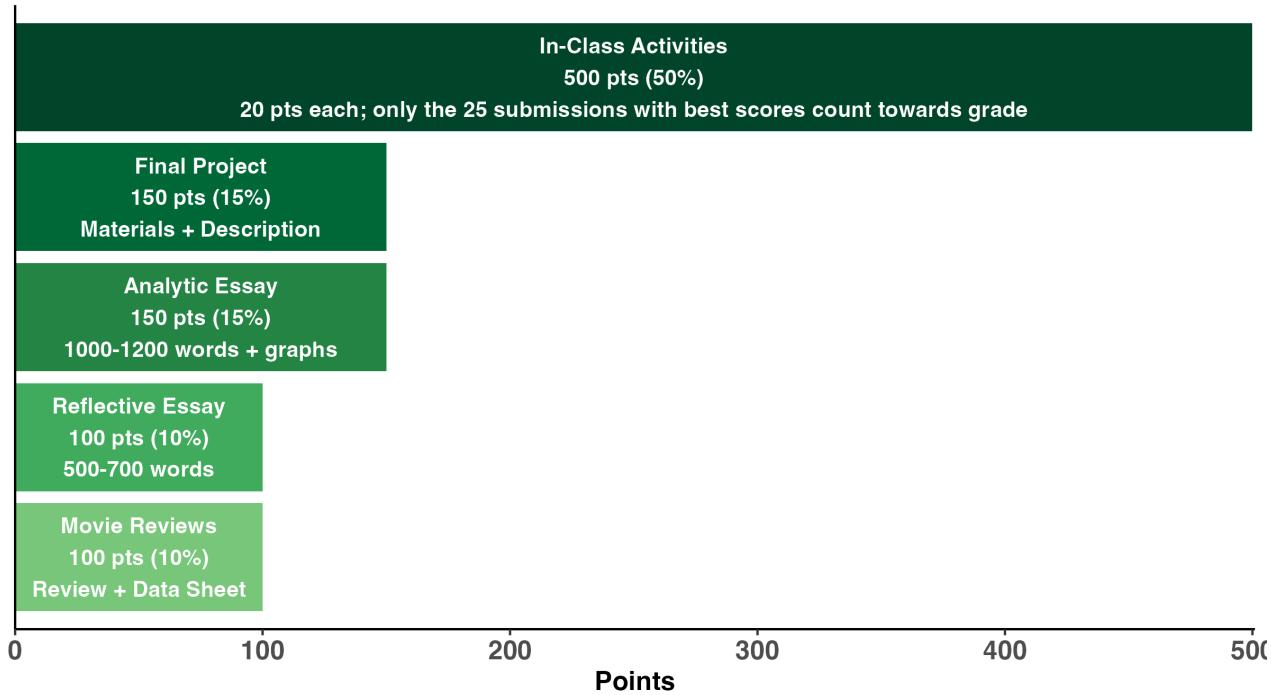
Grades & Attendance

Learning in our class is achieved with a diverse array of methods ranging from data analysis to essays to projects. In most class sessions you will also be working with small groups of students to complete an in-class assignment that reinforces the major themes of the day's topic. In keeping with the philosophy of the Quest program, this course also has *Experiential Learning and Self-Reflection Components*.

 Important note regarding class discussions & group work.

We will explore some challenging, important problems and increase our understandings of different perspectives and approaches for addressing them. These conversations may not always be easy; we sometimes will make mistakes in both how we communicate our perspective and what we hear other say. There may be times when we need patience, courage, imagination, and of course mutual respect to engage our texts, classmates, instructors, guests, and our own ideas and experiences. *Disrespectful or disruptive behavior will not be tolerated.* And always remember that as scholars we rely on critical thinking, data, prior scholarship, and expert opinion when interrogating assigned readings and discussing course content with classmates and instructors.

Assignments (1000 pts)



Grading

In-class Assignments are due by the following class session. Late assignments will lose 10 pts.

Regrades: Requests for re-evaluation of assignments must be accompanied by an explanation for why you think you deserve additional credit and the number of additional points you think you deserve. The deadline for submission is one week after the work was returned.

Grade Assignment (based on % of total points earned): A = 94–100%, A- = 90–93%, B+ = 87–89%, B = 84–86%, B- = 80–83%, C+ = 77–79%, C = 74–76%, C- = 70–73%, D+ = 67–69%, D = 64–66%, D- = 60–63%, E<60

Grade Points: For information on how UF assigns grade points, visit: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

Attendance

Though attendance is not required, many of the sessions we will be completing activities in class that count towards your grade. Some of these can be completed independently, but by doing them in class you will benefit from working collaboratively with the other students. **Not all in-class activities can be completed independently.** That is why only a subset of the in-class assignments count towards your grade. We also offer some opportunities for extra credit. *If you need to miss class for any reason, please let me know as soon as possible.* We will try to make arrangements for you to complete any assignments and go over any material you will be missing.

Participation

Consistent informed, thoughtful, and considerate class participation is encouraged (and in some cases required). *If you have personal issues that prohibit you from joining freely in class discussion (e.g., shyness, language barriers, medical condition): no problem.* let us know and we will discuss alternative modes of participation.

Calendar & Key Dates

WEEK	DATE	TOPIC	ASSIGNMENT INFO
WHY ARE WE FASCINATED BY TROPICAL RAIN FORESTS?			
Week 1	19-Aug 21-Aug	Class Starts Thursday! Course Welcome and Introduction	
Week 2	26-Aug 28-Aug	Historical Narratives Historical Narratives, cont.	
Week 3	2-Sep 4-Sep	Rain forests in Art & Lit The Rain Forest in Pop Culture	Movie Reviews Assigned
THE ECOLOGY & EVOLUTION OF TROPICAL RAIN FORESTS			
Week 4	9-Sep 11-Sep	What is a Rain Forest? What else is a Rain Forest?	
Week 5	16-Sep 18-Sep	Patterns of biodiversity 1 Patterns of biodiversity 2	
Week 6	23-Sep 25-Sep	Origins of tropical biodiversity Maintenance of tropical biodiversity	
Week 7	30-Sep 2-Oct	Humans in rain forests 1 Humans in rain forests 2	Movie Reviews Due

Week 8	7-Oct 9-Oct	Paradox of Luxuriance & (Bio)Narratives Revisited JUNGLE FILM FEST (7 pm)	
THE DRIVERS AND IMPACTS OF DEFORESTATION			
Week 9	14-Oct 16-Oct	How much rain forest is there? How much rain forest have we lost?	Analytic Essay Assigned
Week 10	21-Oct 23-Oct	Drivers of deforestation 1 Drivers of deforestation 2	
Week 11	28-Oct 30-Oct	Tropical forests and climate Tropical forests and climate change	Analytic Essay Due Reflective Essay Assigned
THE FUTURE OF TROPICAL RAIN FORESTS			
Week 12	4-Nov 6-Nov	Consumer choices Tropical Commodities & DURIAN FEST	
Week 13	11-Nov 13-Nov	International conservation frameworks Community-based Conservation	Reflective Essay Due Final Project Assigned
Week 14	18-Nov 20-Nov	Tropical Rain Forests and Global Health Rain forest Headlines	
Week 15	25-Nov 27-Nov	No class - Thanksgiving No class - Thanksgiving	
Week 16	2-Dec 4-Dec	Protected Areas, Reforestation, Regeneration No Class - Reading Days	Final Project Due
Finals Week	9-Dec	No Final Exam	

FAQ

How do I contact the Instructor or TA? Send a message in CANVAS. That way both the TA and instructor will see it and you will get a response more quickly (emails sent to us directly tend to get buried under other messages).

How will you send class announcements? CANVAS. Check the course page for announcements and be sure you are receiving Canvas emails and updates.

What work should we complete BEFORE class? Read, watch, listen to, or review all materials assigned for the session. This material sets the stage for in-class activities.

What will we do DURING class? In-class exercises that reinforce key concepts, discussions of the assigned readings, and let you practice skills in other assignments. Some are completed individually, while others require working in groups or pairs. Each activity will have instructions and a rubric; most are designed to be finished in class.

When is the “in-class” work due? Deadlines are in Canvas, but typically the start of the next class session.

What if I miss class? Attendance is not required, but in many of the sessions we will be completing activities in class that count towards your grade. Some of these can be completed independently, but by doing them in class you will benefit from working collaboratively with the other students. However, some of the in-class activities can not be completed on your own. That’s why only a subset of the in-class assignments count towards your grade and we offer extra credit.

I have to miss class on a certain date. What should I do? Let us know as soon as possible so we can make arrangements for you to review material you will miss and complete assignments.”)

Class discussions are difficult for me. Will this affect my grade? No! If there are issues that make engaging in discussions difficult (e.g., shyness, language barriers, a medical condition), let us know and we will find alternative modes of participation.

I unexpectedly have no child care today...what can I do? UF does not have a policy on children in the classroom, so here is mine: I never want students to feel they have to choose between their responsibilities as parents and their education. Bringing your child to class because of a gap in child care is totally fine (and that includes babies). If you do so, please try and sit close to the exit so that you can more easily step outside if you need to care for them and so other students can continue learning.

UF Policies

Student Accomodations

Students with disabilities or learning barriers that would like to request academic accommodations should connect with the Disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. Please share your letter with me and discuss access needs as early as possible in the semester so that I can do whatever is necessary to ensure your participation and learning.

Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations. Guidance on how to provide constructive feedback is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>. Students can complete evaluations in three ways: (1) The email they receive from GatorEvals, (2) Their Canvas course menu under GatorEvals, and (3) The central portal at <https://my-ufl.bluera.com>.

University Honesty Policy

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: On my honor, I have neither given nor received unauthorized aid in doing this assignment. The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have questions or concerns, consult with the instructor or TAs.

Software Use

All faculty, staff & students are required & expected to obey laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against UF policies & rules, disciplinary action will be taken as appropriate.

Attendance

Requirements for class attendance & make-up exams, assignments, and other work are consistent with UF policies found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

In-Class Recording

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are: **(1)** for personal educational use, **(2)** in connection with a complaint to the university, or **(3)** as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. **A ‘class lecture’ is:** an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a UF course. **A class lecture does not include:** lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session. **Publication without permission of the instructor is prohibited.** To ‘publish’ means: to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. **A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.**

UF Student Resources

Health, Safety, & Wellness

Wellness and Mental Health: Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are

available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance. Visit <https://one.uf.edu/whole-gator/discover> for resources that are designed to help you thrive physically, mentally, and emotionally at UF.

- **University Counseling & Wellness Center:** 3190 Radio Road, 352-392-1575. They can provide Counseling Services, Groups and Workshops, Outreach and Consultation, a Self-Help Library, and Wellness Coaching. <http://www.counseling.ufl.edu/>.
- **U Matter, We Care:** If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website (www.umatter.ufl.edu/) to refer or report a concern and a team member will reach out to the student in distress.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352- 733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.

Field and Fork Pantry: The Hitchcock Pantry can provide food and toiletries for students experiencing food insecurity. <https://pantry.fieldandfork.ufl.edu/>.

Academic Services

E-learning technical support: Contact the UF Computing Help Desk: (352) 392-4357 or helpdesk@ufl.edu.

The Writing Studio Help brainstorming, formatting, and writing papers. Daytime (9:30am-3:30pm): 2215 Turlington Hall, 352-846-1138. Evening (5:00pm-7:00pm): 1545 W University Avenue (Library West, Rm. 339).

Career Connections Center Reitz Union Ste 1300, (352) 392-1601. Career assistance & counseling services.

Library Support Various ways to receive assistance with respect to using the libraries or finding resources. Call 866-281-6309 or email ask@ufl.libanswers.com for more information.

Academic Resources 1317 Turlington Hall, Call (352) 392-2010 or to make a private appointment: 352-392-6420. Email contact: teaching-center@ufl.edu. General study skills and tutoring.

Student Success Initiative <http://studentsuccess.ufl.edu>.

Student Complaints Office of the Ombuds <https://ombuds.ufl.edu/>; Visit the Complaint Portal webpage <https://ombuds.ufl.edu/complaint-portal/> for more information.

Enrollment Management Complaints (Registrar, Financial Aid, Admissions) View the Student Complaint Procedure webpage for more information.

UF Student Success Initiative Visit <https://studentsuccess.ufl.edu/> for resources that support your success as a UF student.

Weekly Reading

! Important

Please review the assigned material **before** class. *Topics & readings are subject to change based on current events; changes will be announced via Canvas.*

Week 1

1-2: Course Introduction

- None

Week 2

2-1: Historical Narratives

Goal: To introduce and discuss how historical narratives by the first Europeans to visit the tropics have shaped contemporary perceptions of tropical rain forests and the colonial roots of tropical biology

- Excerpts from Historical Narratives [6 pages: [link](#) PDF.]

2-2 Historical Narratives (cont.);

- none

Week 3

3-1 Rain Forest Imagery in Art & Literature

Goal: To see how the different depictions of the tropics and tropical biodiversity from early European explorers are reflected in art and literature. readings/trf_in_lit_and_poetry.pdf

- Excerpts from Literature/Poetry [link](#) (5 pages)
- Images of artwork [[link](#)] (4 pages)

3-2 The Rain Forest in Pop Culture

Goal: To compare the use and presentation of rain forest images by the private sector and in different forms of popular culture, including the film and music industries, and to evaluate how these depictions influence perceptions of tropical countries & people.

- Jolly, Priscilla. 2021. ‘Godzilla vs. Kong’: Monster movies evoke adventure but also ‘dangers’ of tropics. *The Conversation*. [[link to read online](#)] (4 pages)
- Rose, Steve. 2016. “From Tarzan to Avatar: the problem with ‘the white man in the jungle’”. *The Guardian* [[link to read online](#)] (newspaper story, 5-10 min. read)

Week 4

4-1 What is a rain forest

Goal: To learn the different ways biologists define the “tropics” and how the structure and dynamics of tropical rain forests differ from those of forests in other parts of the world.

- Why Does Earth Have Deserts? [[link to video](#)]; 2 min long]
- Emma Napper, British Broadcasting Corporation, ZDF, T., Tencent, & France Télévisions (Producers), & Napper, E. (Director). (2016). Jungles. [Video/DVD] BBC Worldwide. Retrieved from <https://video.alexanderstreet.com/watch/Jungles-2>

4-2 What else is a Rain Forest?

Goal: To understand the geological history of tropical rain forests, how climate, fire, and geological history drive the tipping point between forests and savannas, and how this biogeographic, geological, and climatic history shaped the evolution of tropical plants and animals

- “Ch. 4: Finding animals in the rainforest” from Kricher, J.C. (2017). The new neotropical companion. In The New Neotropical Companion. Princeton Univ. Press (13 pp)

Week 5

5-1 Patterns of Biodiversity 1

Goal: To observe and catalog the diversity of plant and animal life forms that can be found in rain forests, to quantify the local patterns of species richness and abundance in a tropical forest, and compare these patterns with those in the temperate zone

- Ingrid Kvale, & British Broadcasting Corporation (Producers), & Kvale, I. (Director). (2021). Borneo: Sacred Forest. [Video/DVD] BBC Worldwide. Retrieved from <https://video.alexanderstreet.com/watch/borneo-sacred-forest>

5-2:

Goal: To understand global patterns of species richness and how these vary from the tropics to the temperate zone

- We will be using iNaturalist in class. Read this: Matthew Earl Boone and Mathieu Basille. Using iNaturalist to contribute your nature observations to science. UF EDIS Document WEC413) <https://journals.flvc.org/edis/article/view/107698/110114...>
- ...and then familiarize yourself in advance by reviewing the iNaturalist website <https://www.inaturalist.org/>

Week 6

6-1: The Origins of Tropical Biodiversity

Goal: To review hypothesized mechanisms for the origins of tropical diversity and the role of interspecific interactions in the (co)evolution and diversification of tropical biodiversity

- “Ch. 3: The Realm of Plants” from Kricher, J. C. (2017). The new neotropical companion. In The New Neotropical Companion. Princeton University Press. (18 pp).
- Is this the biggest flower in the world? “BBC Earth: Corpse Flower Stinks of Death” [[link to video](#), 4 min long].
- A slightly less dramatic video in which you can get a better idea of the flower’s size: [[here](#), 3 min long]
- Maybe this is the biggest flower: The Titan arum [[link to video](#), 2 min long]

Week 7

6-2: The maintenance of tropical biodiversity

Goal: To review the biotic and abiotic mechanisms in tropical rain forests that permit the coexistence of so many species.

- An introduction to Army Ants: [[link to video](#), 9 min long].
- See also this Army Ant Video by the BBC: [[link to video](#), 3 min long].
- A closer look at the Army Ant Birds: [[link to video](#), 14 min long].

Week 7

7-1 Humans are Part of Rain Forests

Goal: To understand the history of human occupation of rain forests including the contemporary demographic transition from rural to urban occupation; to review the different ways in which humans have historically modified rain forests and how this has shaped current rain forest biodiversity.

- Kristine Allington, Michael Amundson, Linithd Aparicio, & Caitlin Saks (Producers), & Townsley, G. (Director). (2023). Ancient Builders of the Amazon. [Video/DVD] Public Broadcasting Service. Retrieved from <https://video.alexanderstreet.com/watch/ancient-builders-of-the-amazon>

7-2 Humans are Part of Rain Forests (Continued)

Goal: To understand the history of human occupation of rain forests including the contemporary demographic transition from rural to urban occupation; to review the different ways in which humans have historically modified rain forests and how this has shaped current rain forest biodiversity.

- None

Week 8

8-1 Paradox of Luxuriance & (Bio)Narratives Revisited

Goal: To understand how such a productive biome can be built on such low-quality soils, and explore the implications of this “Paradox of Luxuriance”.

1. **Watch:** Anthony Bourdain’s Parts Unknown: Congo (S1E8) [[link to video](#), 50 min long].
2. **Read:** Bourdain’s Field Notes: Congo [[read online](#), 5 min read].

8-2

Week 9

9-1 How much tropical rain forest is there?

Goal: To learn how forest cover is defined and estimated and how it varies globally

- Louis Lucero II. New Interactive Tool Helps Track Earth’s Forests [[NYTimes](#), 10 min read].
- Nolen, Stephanie (Reporting) with Elkaim, Aaron Vincent (Photographs). 2018. “Inside the Amazon’s Deforestation Crisis”. The Globe and Mail. [[read online](#), 20 min read].

9-2 How much tropical rain forest have we lost?

Goal: To use forest cover data to estimate rates of tropical forest loss over time

- Manuela Andreoni 2023 “Despite Global Pledges, Tree Loss Is Up Sharply in Tropical Forests” [[read online](#), 10 min read]

Week 10

10-1 Drivers & Consequences of Deforestation Part 1

Goal: Learn (a) how deforestation and other human activities alter the structure & functioning of rain forests, and (b) compare how these drivers differ between the African, American, and Asian tropics.

- Serkez, Yaryna. 2020. Every Place Under Threat. *NY Times*. [[read online](#), 10 min read].
- Andreoni, Manuela, Blacki Migliozi, Pablo Robles and Denise Lu. Photographs by Victor Moriyama. 2022. “The Illegal Airstrips Bringing Toxic Mining to Brazil’s Indigenous Land”. *NY Times*. [[read online](#), 15 min read].
- Searcey, Dionne (reporting) and Gilbertson, Ashley (photographs). 2022 “Raft by Raft, a Rainforest Loses Its Trees” *NY Times*. [[read online](#), 10 min read].

10-2 Drivers & Consequences of Deforestation Part II

Goal: Continue learning (a) how deforestation and other human activities alter the structure & functioning of rain forests, and (b) compare how these drivers differ between the African, American, and Asian tropics.

- Devouring the Rain Forest. Washington Post. [[read online](#), 20 min read].
- Robles, Pablo, Anuradha Raghu, Adam Majendie and Jin Wu 2021. “The World’s Addiction to Palm Oil Is Only Getting Worse”. Bloomberg News. [[read online](#), 10 min read].
- Mason, Margie & McDowell, Robin. 2020. “Palm oil labor abuses linked to world’s top brands, banks”. Associated Press. [[read online](#), 10 min read].

Week 11

11-1 Tropical Forests & Global Climate

Goal: Climate change and Tropical Forests To understand the relationship between tropical forests, deforestation, and the global climate cycle.

- BBC News: Amazon rainforest: ‘Once it’s gone, it’s gone forever’ (interview with Erika Berenguer). [[link to video](#), 3 min long].
- Pearce, Fred. 2018. “Rivers in the Sky: How Deforestation Is Affecting Global Water Cycles.” Yale360. [[read online](#), 10 min read].

11-2 Tropical Forests & Climate Change

Henry Knight Lozano (2023) California and Florida grew quickly on the promise of perfect climates in the 1900s – today, they lead the country in climate change risks. *The Conversation*. [Link](#)

- learn about the EN-ROADS simulator we will be using in class at this [[link to website](#), 15 min read]. You can even start experimenting with it here: [[link to site](#)].

Week 12

12-1 Consumer Choices

Goal: To understand how global production and chains and consumer demand in Europe and North America influence patterns of deforestation in tropical countries.

- Carodenuto, Sophia. 2021. “Chocolate fix: How the cocoa industry could end deforestation in West Africa”. *The Conversation*. [[read online](#), 10 min read].
- Lawal, Shola. 2020. “Our Endless Appetite For Chocolate Has Bitter Environmental Consequences” Huffington Post. [[read online](#), 10 min read].
- Williams, Wyatt. 2021. “How Your Cup of Coffee Is Clearing the Jungle”. *NY Times*. [[read online](#)] Longer, but really gripping and the article includes a link to an audio version if you prefer to listen to it.
- **Optional:** Mufson, Steven and Georges, Salwan. 2019. “The trouble with chocolate” Washington Post [[read online](#)] to see the amazing maps, pictures, and data visualizations.

12-2 Tropical Commodities & DURIAN FEST

Goal: To learn about the global market in tropical fruit crops and the economic impact of tropical fruit production in Florida.

- Weintraub, Karen. 2019. “They’re Smelly and Spiky, and They Need Bats to Pollinate Them”. *NY Times*. [[read online](#), 5 min read].
- Wharton, Rachel. 2020. How the Tip of Florida Became a Tropical-Fruit Paradise. *Atlas Obscura*. [[read online](#), 5 min read].
- Hunt, Chris and Premathilake, Rathnasiri. 2018. “Prehistoric people started to spread domesticated bananas across the world 6,000 years ago.” *The Conversation*. [[read online](#), 5 min].
- **Listen:** NPR’s Throughline Podcast: “There Will Be Bananas” [[listen online](#), 56 min].

Week 13

13-1 International Conservation Frameworks

Goal: To learn about the major local, national, and multi-national approaches to reducing deforestation by comparing their efficacy and socioeconomic impacts. REDD and Payment for Ecosystem Services.

- UN-REDD Programme: An introduction to REDD+ [link](#).

Note: this is a slide deck designed to introduce the REDD+ framework to a general audience. The content is exceptional, but don’t just read the material – think about how it is being presented (graphics, etc.) and if it effectively communicates their message. I’ve asked you do this not just to prepare for today’s lesson, but because it will be useful for your Final Project (TL;dr...the presentation is awful: busy slides, too much text, overly complicated graphics...we’ll talk about how it could be improved).

- Ruth Maclean (reporting, writing), Caleb Kabanda (reporting), and Nanna Heitmann (photography). 2022. “What do the protectors of Congo’s peatlands get in return?” *NY Times*. [[read online](#), 10 min read].

13-2 Community based conservation

Goal: To learn about how local communities are engaged in rain forest conservation and sustainable development efforts in the tropics and beyond.

- Kimbrough, L. 2021. “How settlers, scientists, and a women-led industry saved Brazil’s rarest primate”. Mongabay.com [[read online](#), 10 min read].

Katrina Kosec et al. (2025) Forest loss in Malawi: how having women at the table affected debates and decisions about solutions. *The Conversation*. [[read online] (<https://theconversation.com/forest-loss-in-malawi-how-having-women-at-the-table-affected-debates-and-decisions-about-solutions-research-259699>), 10 min read].

- Don’t underestimate what one person can do on their own: “BBC World Service: The man who grew his own rainforest” [[link to video](#), 5 min long] (keep an eye out for the Euglossine bees we learned about earlier in the semester...you can see them collecting scented oil from flowers at 2:04).
- **Come prepared to make some money:** we’re looking into the economic benefits of setting aside land (or not) for conservation. To prepare, review this document over before class: [[link](#), 10-15 min read].

Week 14

14-1 Tropical rain forests & Global Health

Goal: To learn about the relationship between deforestation and the emergence and spread of tropical diseases like Zika and Malaria from the tropics to other regions of the globe.

- Vittor, Amy, Gabriel Zorello Laporta, and Maria Anice Mureb Sallum. 2020. How deforestation helps deadly viruses jump from animals to humans. *The Conversation*. [[read online](#), 15 min read].

UF EPI. (2024) Florida’s mosquitoes can make you sick: Here’s how to protect yourself. [link](#)

- Kuchipudi, Suresh V. 2020. Why so many epidemics originate in Asia and Africa – and why we can expect more. *The Conversation*. [[read online](#), 10 min].
- Lavinas Picq, Manuela 2020. “Spreading Faith, and Disease”. *NY Times*. [[read online](#), 15 min read].

14-2 Rain Forest Headlines

Goal: To learn how journalists based in different countries or different global audiences chose and cover stories about rain forests and deal with the risks of covering this beat.

- Nicas, Jack (reporting) and Moriyama, Victor (Photos, Video). 2022. Inside the Amazon Journey That Left a Journalist and an Activist Dead. *NY Times*. [[read online](#), 15 min read]

Week 15

- No Class - Thanksgiving Holiday

Week 16

16-1 Forest Restoration & Regeneration

Goal 1: To learn the difference between passive regeneration and active restoration and assess evidence for whether they can be used to reverse the effects of deforestation

Goal 2: To learn about different global categories of protected areas, the importance of protected areas in the tropics for conserving forest, and how the threats to protected areas vary regionally and globally.

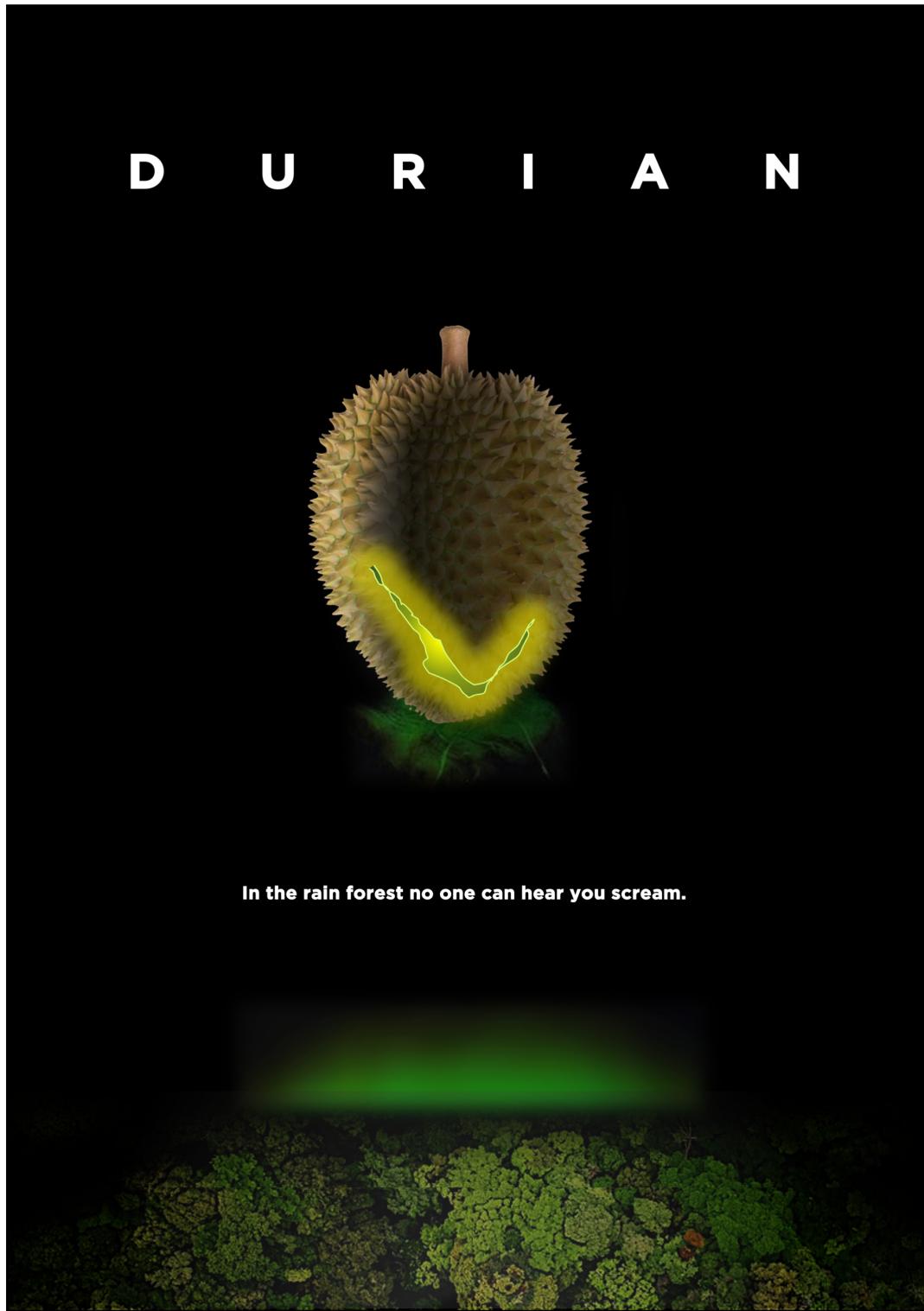
- Dasgupta, Shreya (with research by Annika Schlemm & Zuzana Burivalova). 2017. “Do protected areas work in the tropics?” Mongabay.com. [[read online](#), 25 min read].
- Matti Barthel et al. (2025) DRC’s plan for the world’s largest tropical forest reserve would be good for the planet: can it succeed? *The Conversation*. [[[read online](#)] (<https://theconversation.com/drcs-plan-for-the-worlds-largest-tropical-forest-reserve-would-be-good-for-the-planet-can-it-succeed-254394>)], 10 min read].
- Medici, Patricia. 2015 TED Fellows Talk. “The coolest animal you know nothing about...and how we can save it”. [[link to video](#), 11:20 min long].
- Jennifer Weeks. Ending Amazon deforestation: 4 essential reads about the future of the world’s largest rainforest. *The Conversation* [link](#) (4 pages)

Student Learning Objectives

B = Biological Sciences, Q2 = Quest 2

CONTENT	CONNECTION
<p><i>Students demonstrate competence in the terminology, concepts, theories, and methodologies used within the discipline(s)</i></p> <p>(1) Describe the evolutionary and ecological factors underlying the distribution of biodiversity in tropical rain forests. Assessments: In-class activities, Final Project. (B).</p> <p>(2) Distinguish (a) the different ways humans use and alter rain forests, and (b) the social, economic, and biological consequences of these activities. Assessments: In-class activities, Reflective Essay, Final Project. (B, Q2)</p> <p>(3) Explain how genetics, remote sensing, computational tools, and other scientific developments have advanced research on the ecology and evolution of rain forest biota. Assessments: In-class activities, Analytic Essay. (B).</p> <p>(4) Examine the historical factors that have shaped cultural perceptions of rain forests. Assessments: In-class activities, Movie Reviews, Final project. (Q2).</p> <p>(5) Analyze how narratives about rain forests are reflected in different types of contemporary cultural expression. Assessments: In-class activities, Movie Reviews, Final project. (Q2).</p> <p>(6) Distinguish between the primary drivers of forest loss and how they vary geographically. Assessments: In-class activities, Analytic Essay. (B, Q2)</p> <p>(7) Critique different proposed mechanisms for rain forest conservation. Assessments: In-class activities, Analytic Essay. (B, Q2)</p>	<p><i>Students connect course content with meaningful critical reflection on their intellectual, personal, and professional development at UF and beyond.</i></p> <p>(1) Examine the cultural, economic, and historical experiences of people in rain forest countries, how this compares with our preconceived notions of the same, and the consequences of this disparity for our scientific understanding of rain forests and their conservation. Assessments: In-class activities, Movie Reviews, Final Project (Q2).</p> <p>(2) Assess the feedbacks between (a) the actions of individuals, governments, and the private sector, (b) global economic, social, and political conditions, and (c) the status rain forests and the global climate cycle. Assessments: In-class activities, Reflective Essay, Analytic Essay (Q2).</p> <p>(3) Appraise the ubiquity of tropical forest products in daily life, the role and impact of the global commodity chains that make this possible, and the consequences of consumer behavior for forest conservation and socioeconomic sustainability. Assessments: In-class activities, Final Project (Q2).</p> <p>(4) Analyze the local, regional, and global ecosystem services provided by tropical rain forests, how these vary geographically, and some of the cultural and ecological factors responsible for these differences. Assessments: In-class activities, Reflective Essay, Analytic Essay, Final Project (Q2).</p>
COMMUNICATION	CRITICAL THINKING
<p><i>Students communicate knowledge, ideas and reasoning clearly and effectively in written and oral forms appropriate to the discipline(s)</i></p> <p>(1) Generate graphical analyses of quantitative data used to study rain forest biology and conservation (Q2, B). Assessments: In-class activities, Analytic Essay.</p> <p>(2) Compose summaries of research on multidisciplinary questions relevant to tropical forest biology and conservation based on logical arguments (Q2, B). Assessments: In-class activities, Analytic Essay, Final Project.</p> <p>(3) Develop audience-specific content and materials with which to communicate an important issue related to tropical forest biology and conservation. Assessments: In-class activities, Reflective Essay, Movie Reviews, Analytic Essay, Final Project (Q2).</p>	<p><i>Students carefully and logically analyze information from multiple perspectives and develop reasoned solutions to problems within the discipline(s).</i></p> <p>(1) Test hypotheses regarding trends in deforestation and how forest regeneration varies geographically with quantitative data on forest cover and use news stories, primary literature, and other sources to propose mechanisms responsible for the patterns observed. Assessments: In-class activities, Analytic Essay (B, Q2).</p> <p>(2) Analyze qualitative data on rural-urban migration and human demographic shifts in tropical countries and assess the potential implications of the results for conservation and broader societal issues. Assessments: In-class activities, Analytic Essay (B, Q2).</p> <p>(3) Explain the relationship between deforestation and the global climate cycle. Compare alternative policy pathways for reducing CO₂ emissions using the En-ROADS global climate simulator. Assessments: In-class activities, Reflective Essay (B, Q2).</p>

WIS2323 Posters



IDS 2935 DURIAN FEST³

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TROPICAL ECOLOGY & CONSERVATION LAB
711 NEWELL DR. UNIVERSITY OF FLORIDA

18

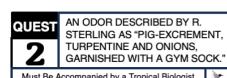


Figure 1: DurianFest 2023

the notorious DURIANFEST



ids2935 the future of rain forests

1 A 17 Nov 22
B 9:35 am

2 A Bruna Lab Lawn
B 711 Newell Dr.

3 A a UF Quest Production
B www.BrunaLab.org

Figure 2: DurianFest 2022



Figure 3: DurianFest 2021



Figure 4: Jungle Film Festival 2025

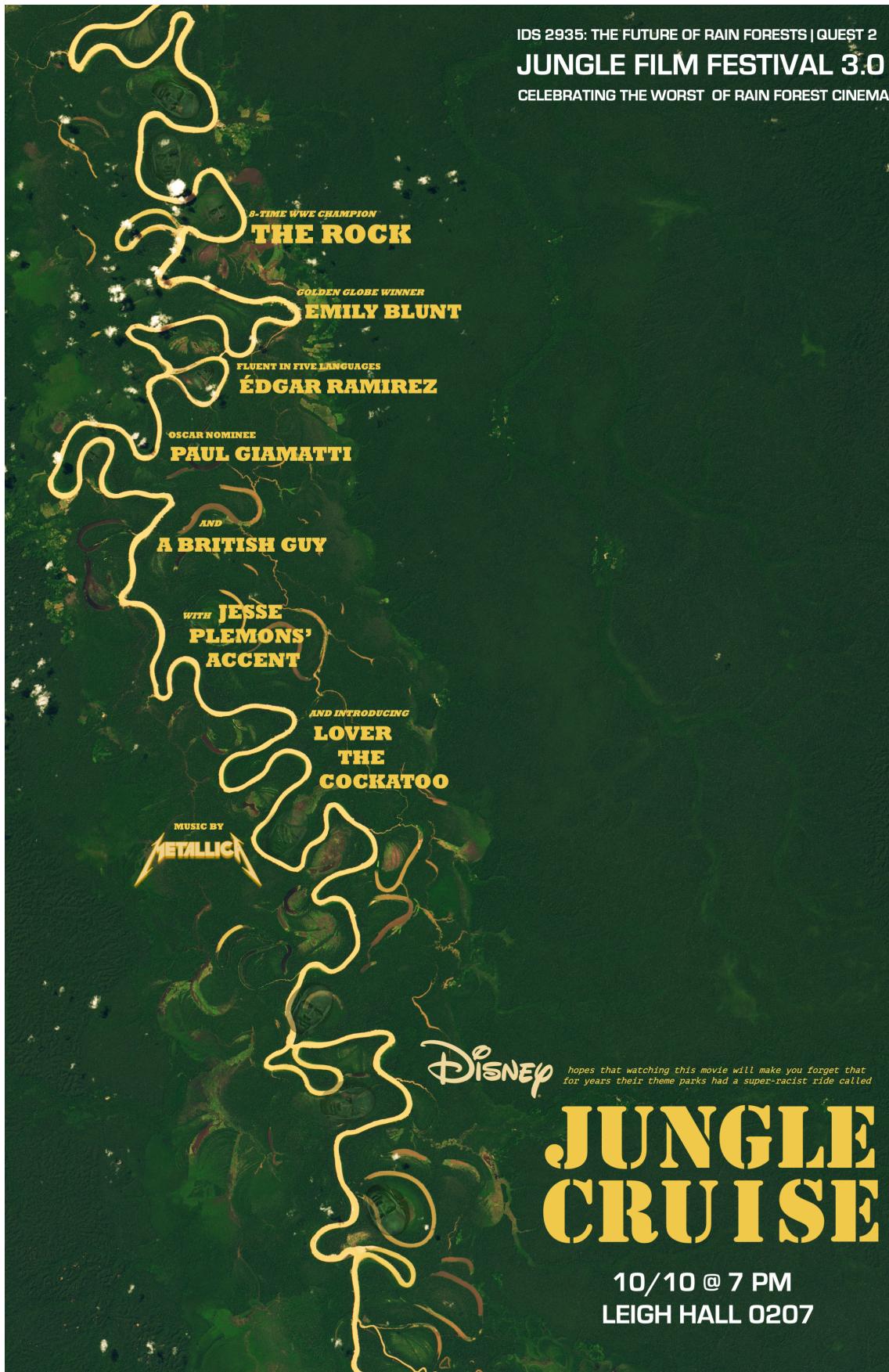


Figure 5: Jungle Film Festival 2023



Figure 6: Jungle Film Festival 2022



Figure 7: Jungle Film Festival 2021