

Assessment of the extreme precipitation events frequency and its impact on the Yucatan Peninsula vegetation coverage

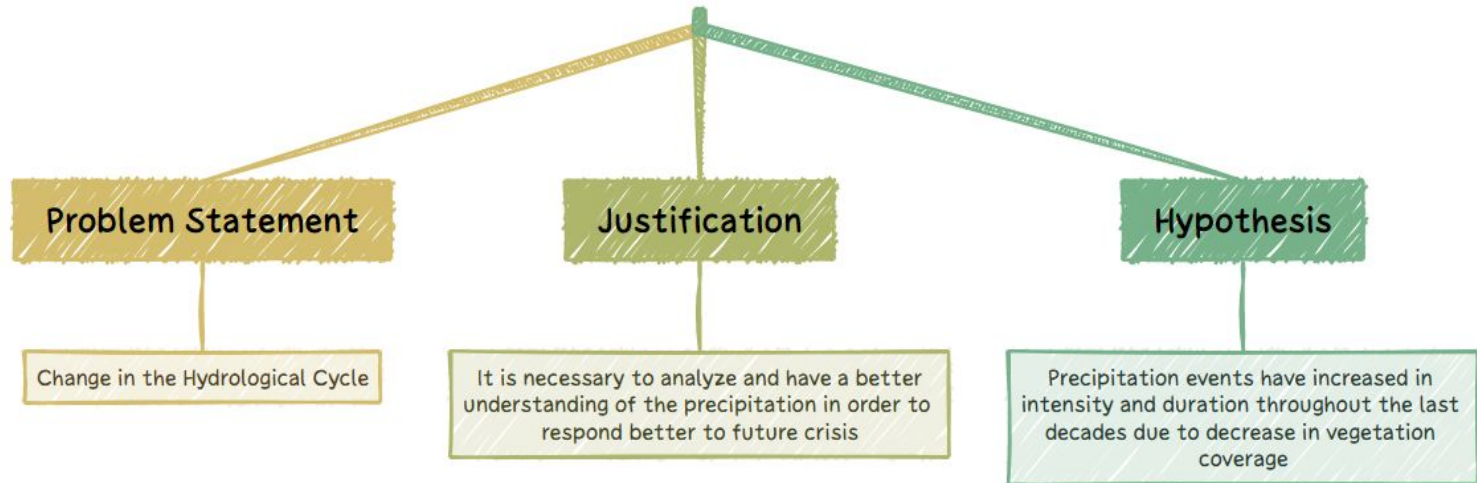
Tyrannosaurus Tango Stringendo



Climatematch
Academy

INTRODUCTION

Assessment of the extreme precipitation events frequency and its impact on the Yucatan Peninsula vegetation coverage



YUCATAN PENINSULA



- **Coordinates**

23°40'22.70"N

17°27'53.20"N

92°31'0.61"O

85°27'57.73"O

[Speaker
Zoom
video]

- **Dominant climate**

Tropical

- **Vegetation**

Dry, wet and pine forest, tropical rainforests and mangroves

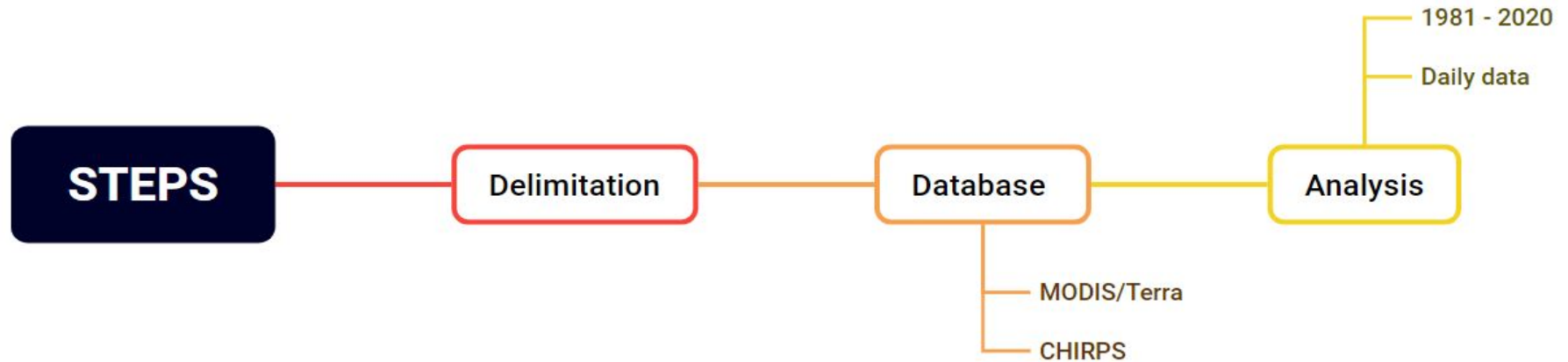
- **Relevance**

The Yucatan Peninsula can be expected to face extreme precipitation due to climate change. This region has experienced the highest records of precipitation and runoff, which makes it an interesting region to study (CONAGUA, 2018).



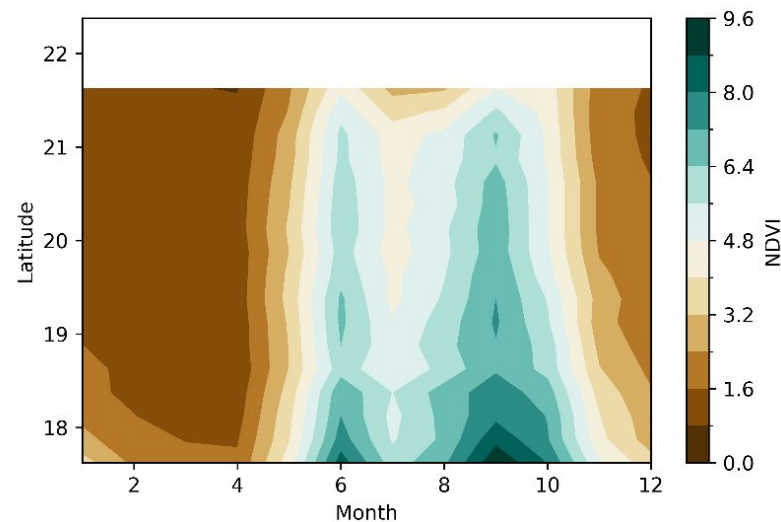
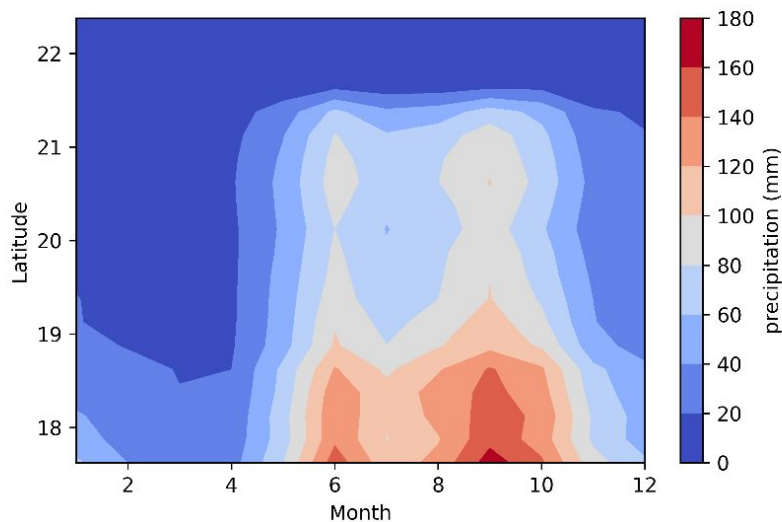
METHODOLOGY

[Speaker
Zoom
video]



RESULTS/DISCUSSIONS

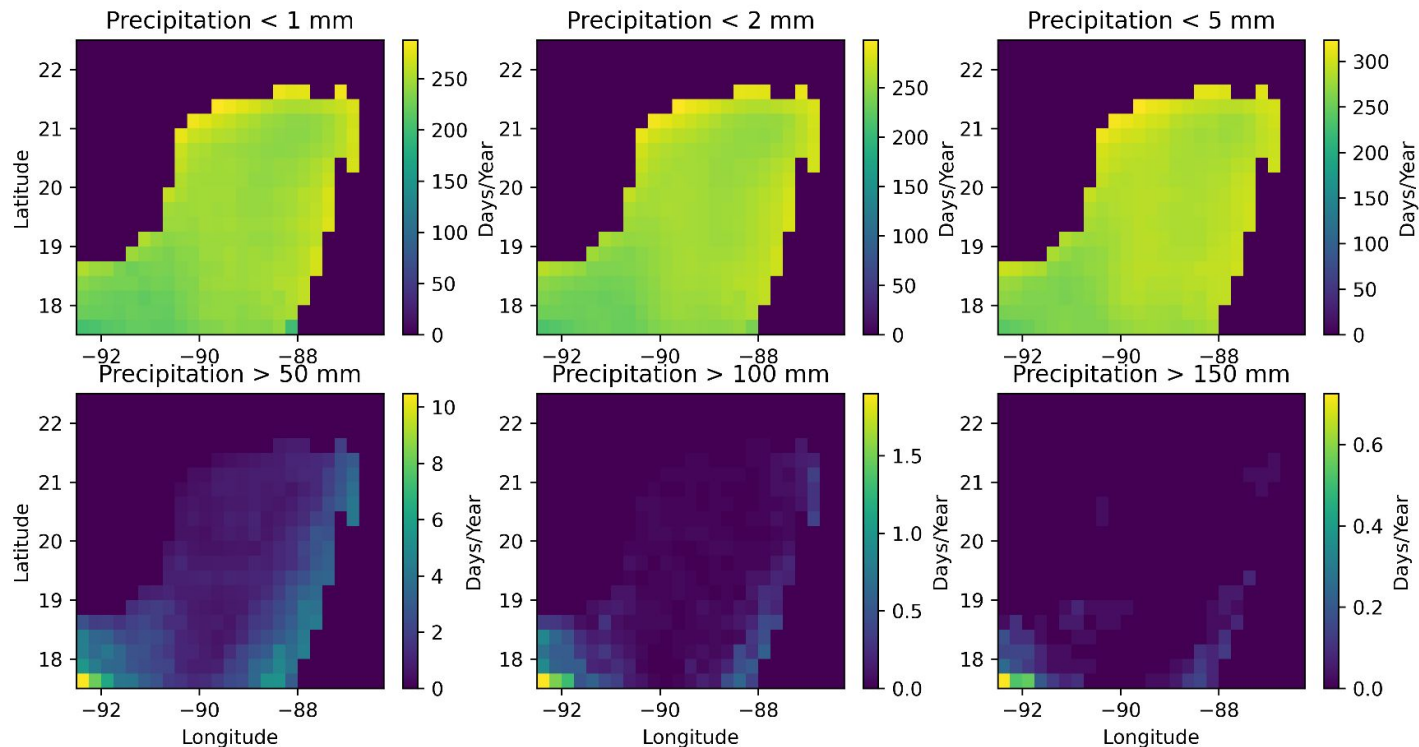
Monthly distribution per latitude



RESULTS/DISCUSSIONS

Annual frequency

Dry days



Wet days

CONCLUSIONS

- THERE IS A SEASONAL CORRELATION BETWEEN THE VEGETATION COVERAGE AND THE PRECIPITATION
- WE CAN CLEARLY SEE THE WET AND DRY ZONES
- Scope and Limits of the project

And the end of this project development we came to the conclusion that the time was a strong limitant to determine whether there is a strong relation between the extreme events of precipitation and vegetation coverage, but we found out there is enough data to make more analysis.

- Future Analysis

Determine vulnerable areas

REFERENCES

Andrade-Velázquez, Mercedes, & Medrano-Pérez, Ojilve Ramón. (2021). Historical precipitation patterns in the South-Southeast region of Mexico and future projections. *Earth Sciences Research Journal*, 25(1), 69-84. Epub October 19, 2021.

PERALTA-HERNÁNDEZ, A. R., BALLING, Jr., R. C., & BARBA-MARTÍNEZ, L. R.. (2009). Comparative analysis of indices of extreme rainfall events: Variations and trends from southern México. *Atmósfera*, 22(2), 219-228

Summary for policymakers (IPCC)

[Speaker
Zoom
video]

THANK YOU FOR YOUR ATTENTION

