

Optimum maize planting dates and season length for climate change and adaptation in Kano, Nigeria



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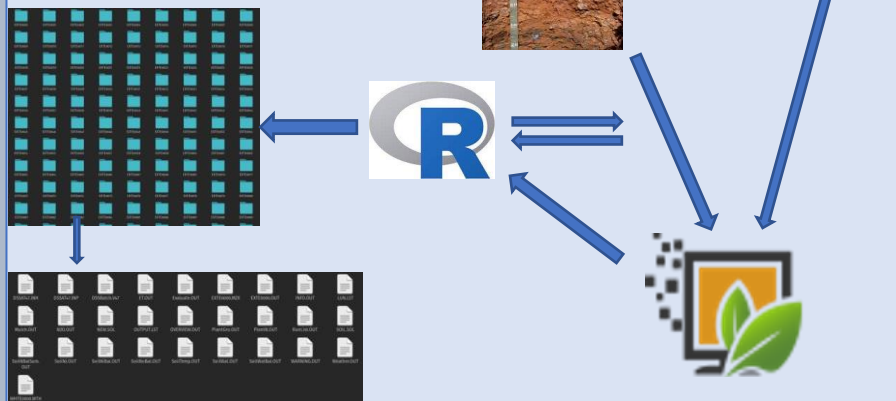
Tropentag Conference, Czech University of Life Sciences, Prague, September 14-16, 2022

Introduction

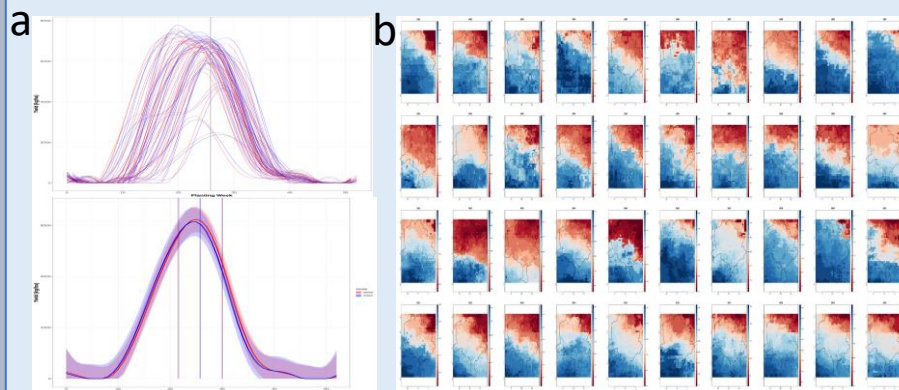
- Maize-Staple food crop in Sub-Saharan Africa
- Prone to climate risk and other inherent challenges
- Low-cost strategies such as planting dates and variety choice
- Crop modelling approaches more ideal: Cost and complex
- Evaluate changes in planting date and season length

Methodology

- Kano, Nigeria
- Spatialized crop model
- 1981-2020



Outcome...



(a) Optimum maize planting dates and (b) seasonal length for Nigeria, Kenya (1981-2020)

Conclusion...

- Optimal planting range: Week 20-30 DOY
- Optimum planting: Week 25
- Season length: Not significantly changing general patterns remaining the same
- Recommendations: ...Variety and fertilizer matrix
....Improved crop model calibration
..Forecast planting dates and season length

Reference

Fisher et al., 2015, Drought tolerant maize for farmer adaptation to drought in sub-Saharan Africa: Determinants of adoption in eastern and southern Africa; Climate change, 133, 283-299