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climatrends: Precipitation and temperature indices for climate variability analysis in R

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Software

- Review
- Repository
- Archive

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Summary

Understand how climate variability drives ecological processes is a key approach to provide recommendations for climate adaptation and biodiversity conservation. **climatrends** aims to provide the toolkit to compute extreme precipitation and temperature indices that serves as input for climate models, crop modelling, trends in climate change and ecology. The climate variables available in **climatrends** were previously used to identify climate patterns in crop growing cycles (Kehel, Crossa, and Reynolds 2016), regional climate change assessment (Aguilar et al. 2005), the effects of agroclimatic indices on the performance of crop varieties (van Etten et al. 2019) and compare perceptions to climate change with observed data (de Sousa et al. 2018).

Implementation

Application: common beans

Application: time series

Further development

Integration with other datasets as they become available in `R` via API client packages.

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