

Slangbos encroachment - Mini Paper

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Introduction

Chapter

Data exploration

Fig. X. Median and standard deviation interval of Sentinel-1 VH time series (temporal resolution less than 7d, 354 scenes). Sites associated with slangbos (*Seriphium plumosum*) return a stronger signal the further the bush encroached (red, $n = 564$ pixels). Agricultural sites leave stronger patterns of seasonality without overall slope (blue, $n = 1393$ pixels). Plots being subject to slangbos control through chemical treatment, burning or manual uprooting or ploughing return significantly less signal after the operation (black, $n = 105$ pixels).

354 Sentinel-1 scenes

1393 agro 564 incr 105

Ludwig et al. (2019) said things. Jed Wing et al. (2019) is great Hijmans (2019) is also good

References

Hijmans, Robert J. 2019. *Raster: Geographic Data Analysis and Modeling*. <https://CRAN.R-project.org/package=raster>.

Jed Wing, Max Kuhn. Contributions from, Steve Weston, Andre Williams, Chris Keefer, Allan Engelhardt, Tony Cooper, Zachary Mayer, et al. 2019. *Caret: Classification and Regression Training*. <https://CRAN.R-project.org/package=caret>.

Ludwig, Marvin, Theunis Morgenthal, Florian Detsch, Thomas P. Higginbottom, Maite Lezama Valdes, Thomas Nauß, and Hanna Meyer. 2019. "Machine Learning and Multi-Sensor Based Modelling of Woody Vegetation in the Molopo Area, South Africa." *Remote Sensing of Environment* 222: 195–203. <https://doi.org/10.1016/J.RSE.2018.12.019>.