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# Stabilizing high-order, non-classical harmonic analysis of NDVI data for average annual models by damping model roughness

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# Abstract

Fourier series and related harmonic methods have been demonstrably effective for identifying and characterizing the seasonal behaviour, or phenology, of a variety of terrestrial vegetation communities using Normalized Difference Vegetation Index (NDVI) time series from Earth-orbiting satellites. The ultimate temporal resolution of such

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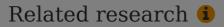
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(sigmoidal) functions, recently reported in the literature.

# Acknowledgments

This work was developed over several years of interacting and constructive discussions with Bethany Bradley and Rob Jacob, both recent recipients of PhD degrees from Brown University. Professor Jack Mustard generously supplied the AVHRR-NDVI data and the hospitable venue in which this work was possible. Financial support was provided by Brown University and private sector partners with its Environmental Geophysics/Hydrology group.



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