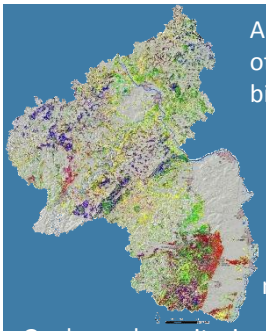
MY PERSONAL T-PROFIL

NAME: David Frantz



Application of **FORCE** for big data driven geoscientific monitoring in both time & space – and if required in near-real time:

Geohazard monitoring (floods, water quality, fire/burnt area, insect infestation, drought…), land surface phenology, tree species mapping, land degradation and many others

Teaching of Geoinformatics, Programming and Statistics

Workshops, conferences, research visits , scientific and project meetings, e.g.

- ACIX: Atmospheric Correction Inter-comparison Exercise
- Dept. of Science, Information Techn. and Innov., Brisbane
- Univ. of Wisconsin-Madison
- MultiTemp
- Global Land Project
- ESA Living Planet Symposium

…

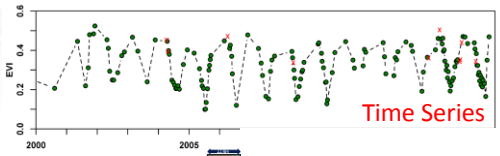
Awards and extra curricular activities

- Faculty award for the best Ph.D. publication 2016
- Award for the best graduation in 2012/2013
- Student member in the diploma board of examiners 2010-2012

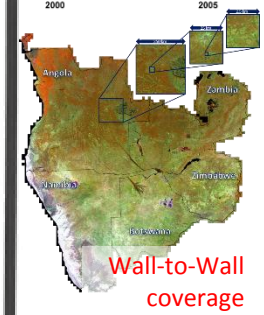
Collaboration with scientists and stakeholders from different nations in Germany, Southern Africa, Australia and the United States

Supervision of bachelor theses

Reviewing for top remote sensing journals



Time Series



Wall-to-Wall coverage

FORCE: Framework for **O**perational **R**adiometric **C**orrection for **E**nvironmental monitoring accounts for the most data intensive preprocessing steps: cloud detection, atmosph. / topographic correction, geometric homogenization and data reduction of big EO archives

Programming in **C** & **R**

Multiscale analysis, data integration, data reduction, machine learning, statistics, big data, NRT, automatization

Scientific publications **IEEE**, **RSE**, …

Work in interdisciplinary research projects (SASSCAL / Sentinel4GRIPS)

Wordle of my dissertation