

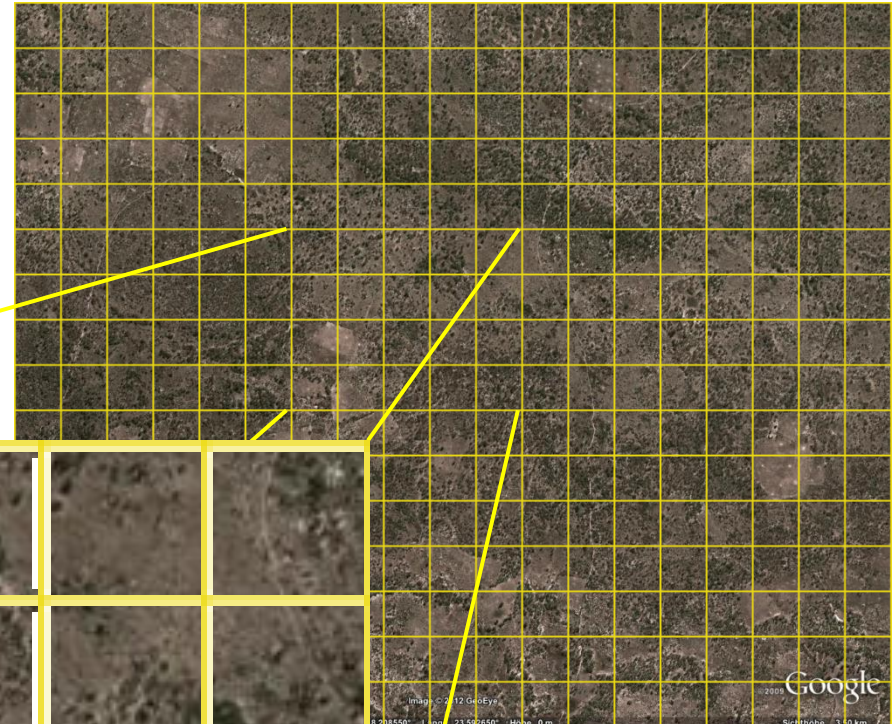
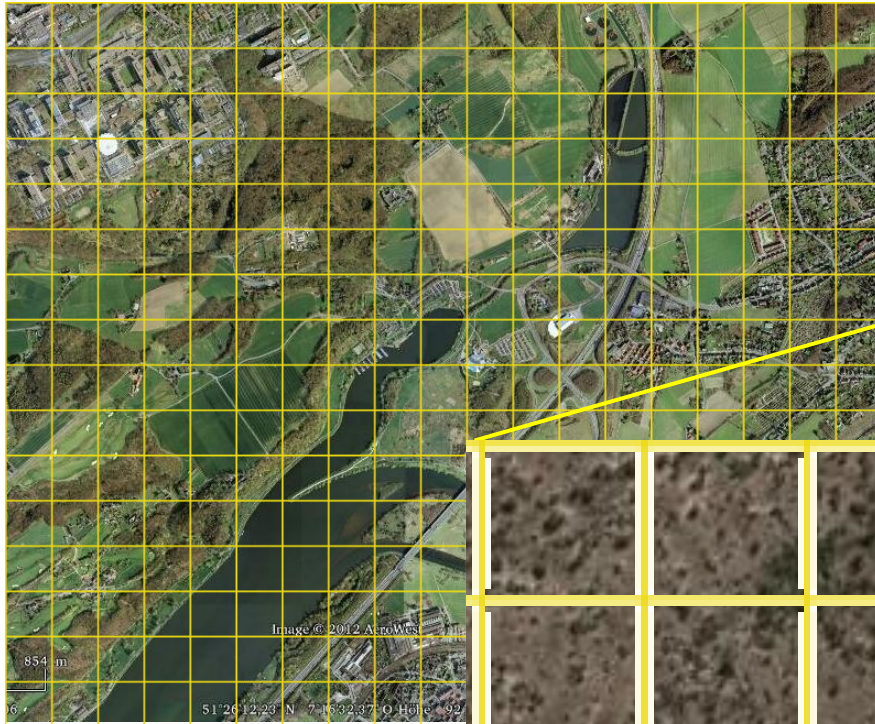
Spatio-temporal transferability of fractional cover

A Case study in semi arid Savannah's of Namibia and Western Zambia

J. Zeidler¹, M. Wegmann¹, S. Dech²

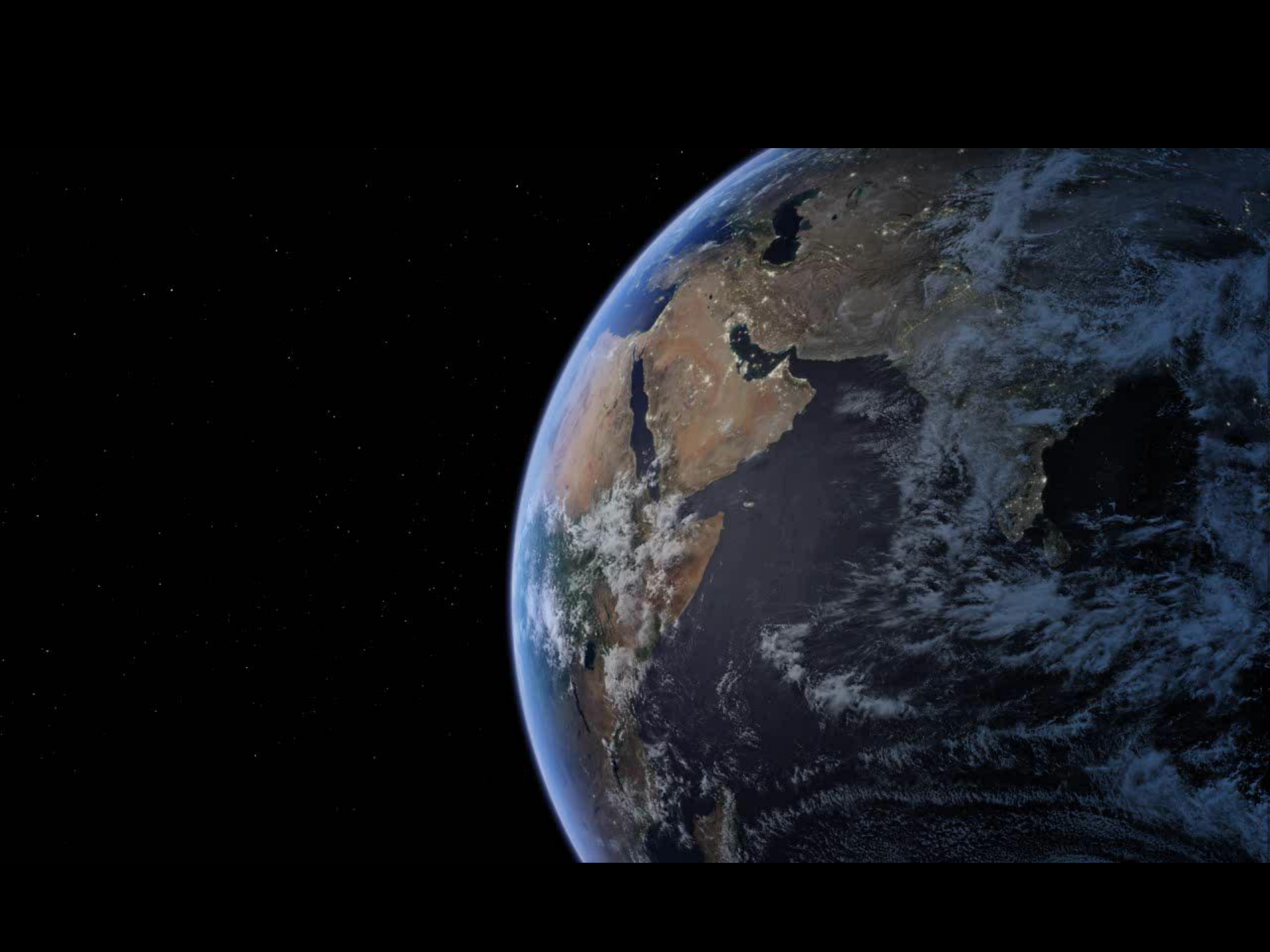
¹Department of Remote Sensing, Institute of Geography, University of Würzburg

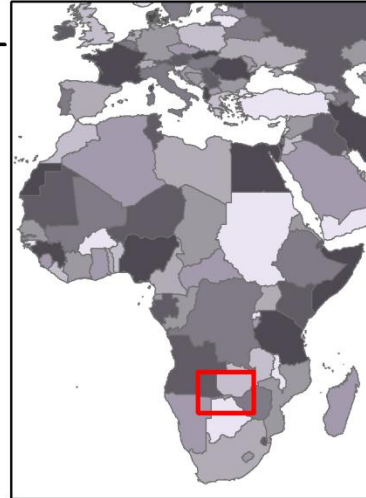
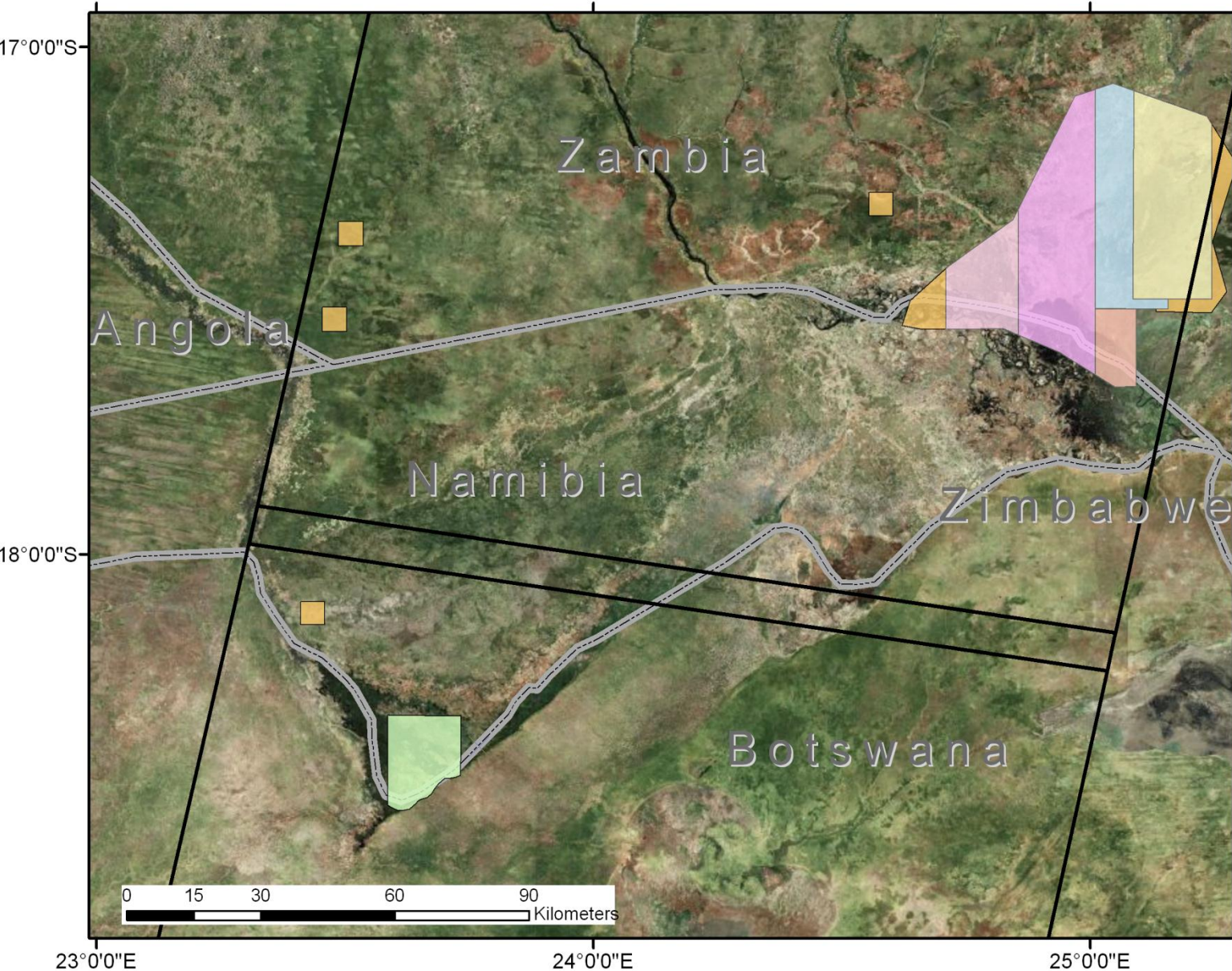
²German Aerospace Center, German Remote Sensing Data Center, Wessling



Ruhr Universit

P., Caprivi, Namibia

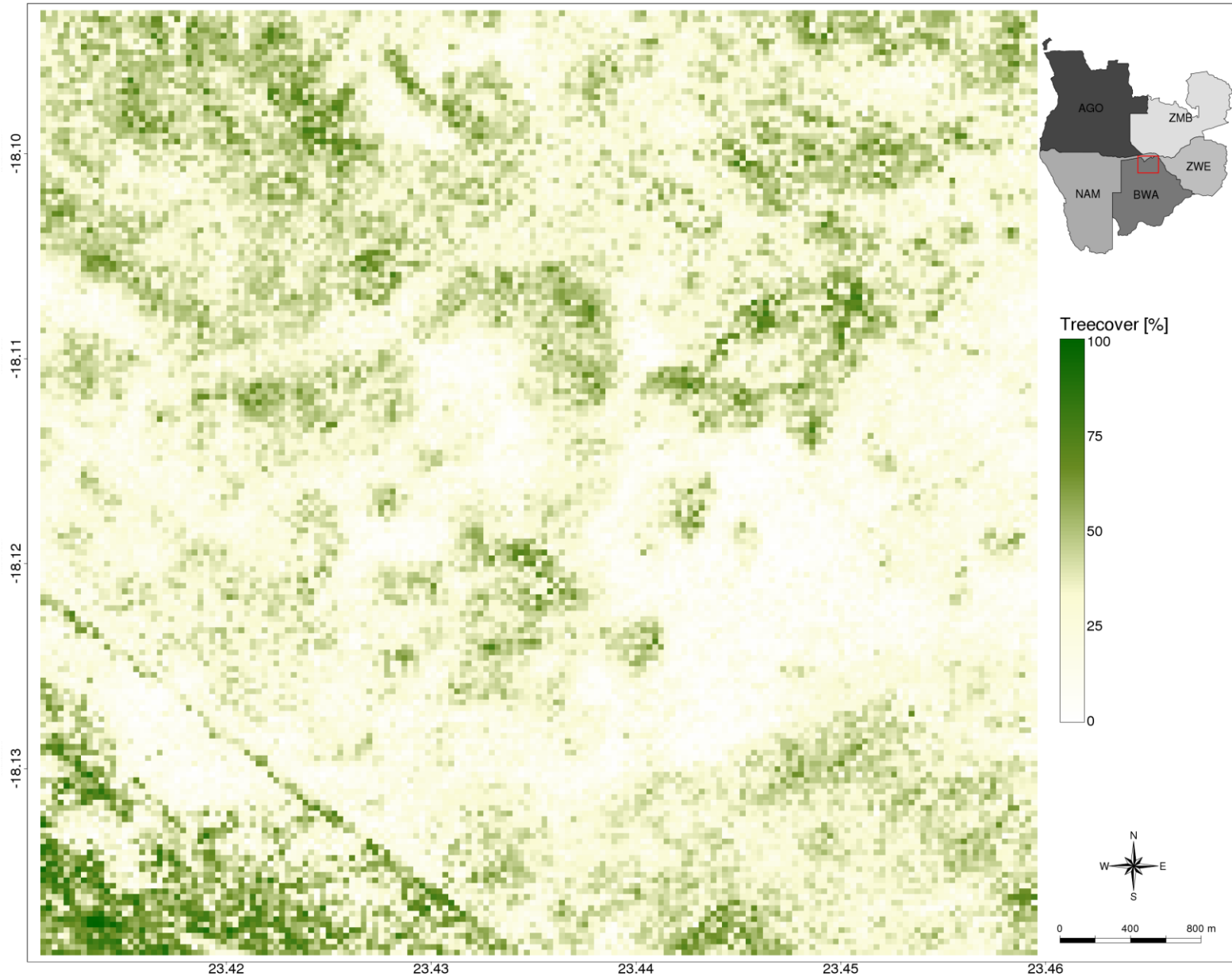




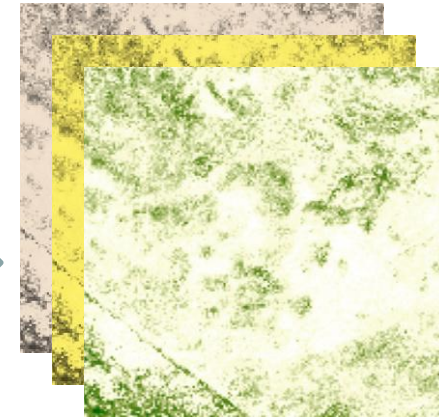
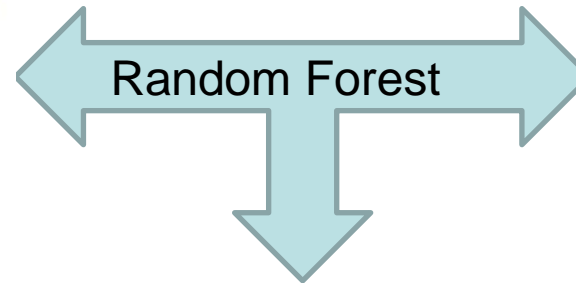
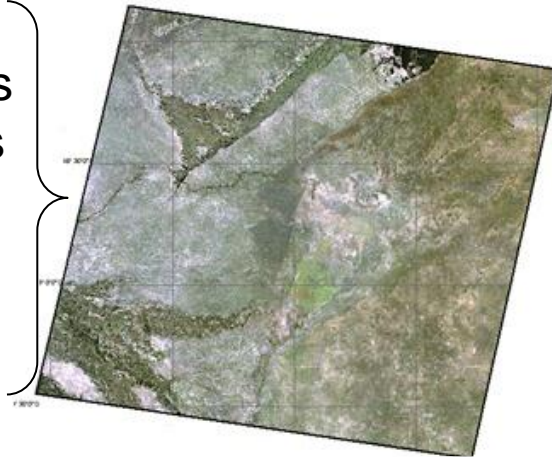
Worldview Scenes

- April 2010
- August 2010
- August 2011
- March 2010
- March 2011
- May 2009
- May 2010
- November 2010
- October 2010
- September 2011
- Borders
- Footprint Landsat

Fractional Treecover Landsat

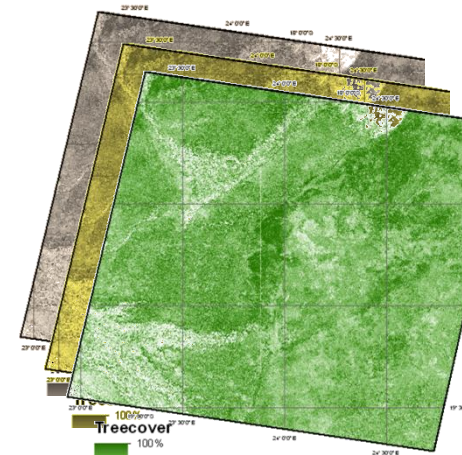


Bands 1-5,7
 TC Greenness
 TC Brightness
 TC Wetness
 NDVI
 SAVI
 SR

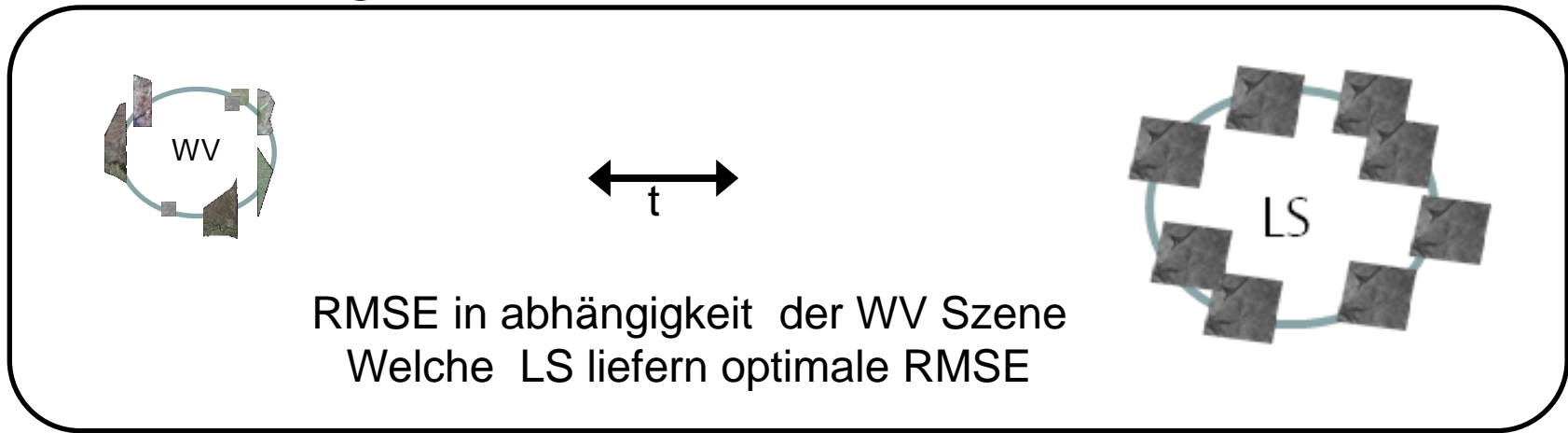


FC Subset

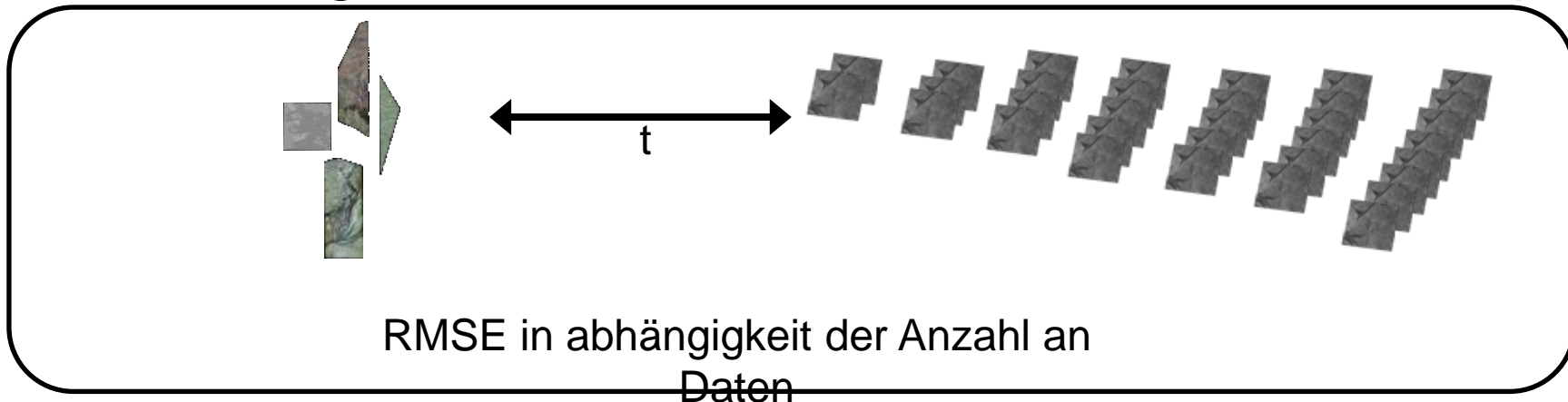
Date	Area	Clouds	Sensor
10.02.10	47174	9%	LS7 ETM+
22.03.10	47952	28%	LS5 TM
30.03.10	48829	6%	LS7 ETM+
15.04.10	51613	1%	LS7 ETM+
01.05.10	50712	2%	LS7 ETM+
09.05.10	66514	0%	LS5 TM
19.12.10	42952	35%	LS5 TM
10.04.11	59910	10%	LS5 TM
24.08.11	52051	0%	LS7 ETM+

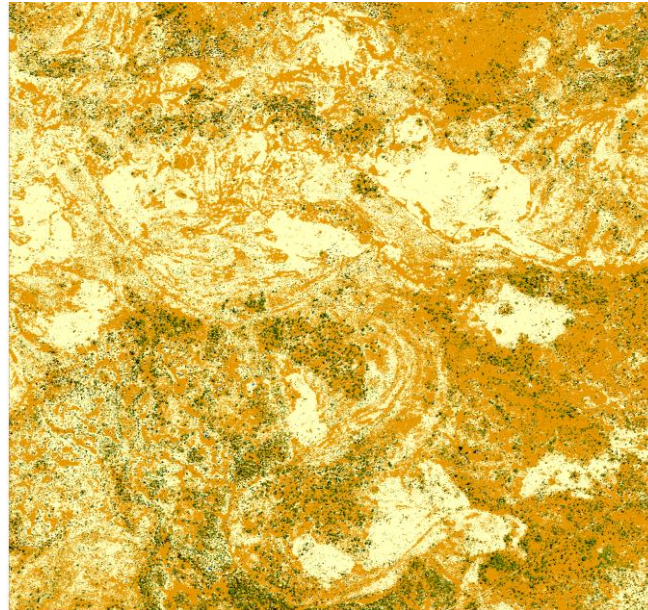
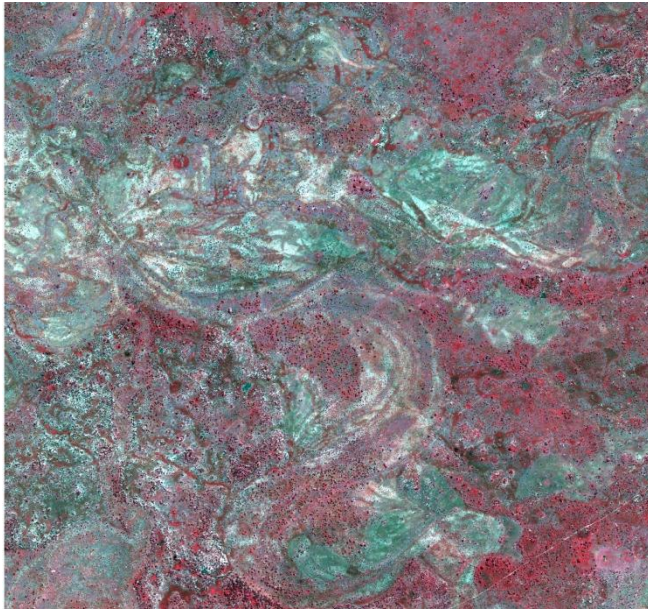


1 Auswirkung der WV / LS Aufnahmezeitpunkte



2. Notwendige Anzahl an LS Daten & Aufnahmezeitpunkte

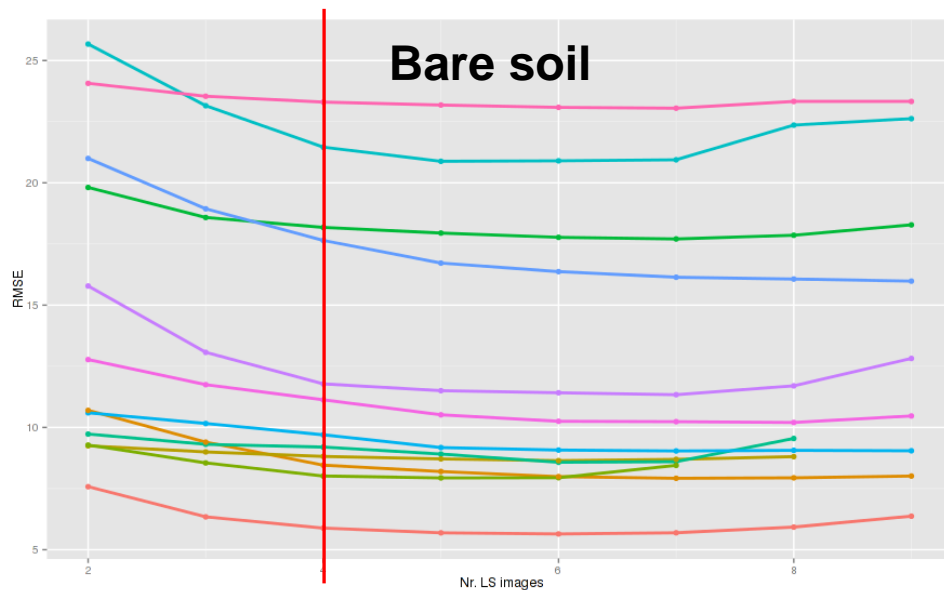
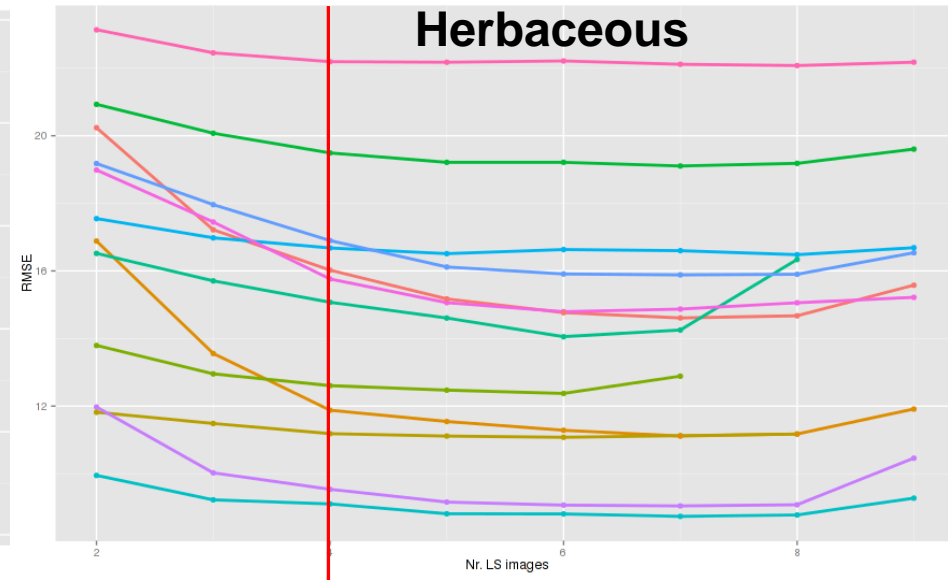
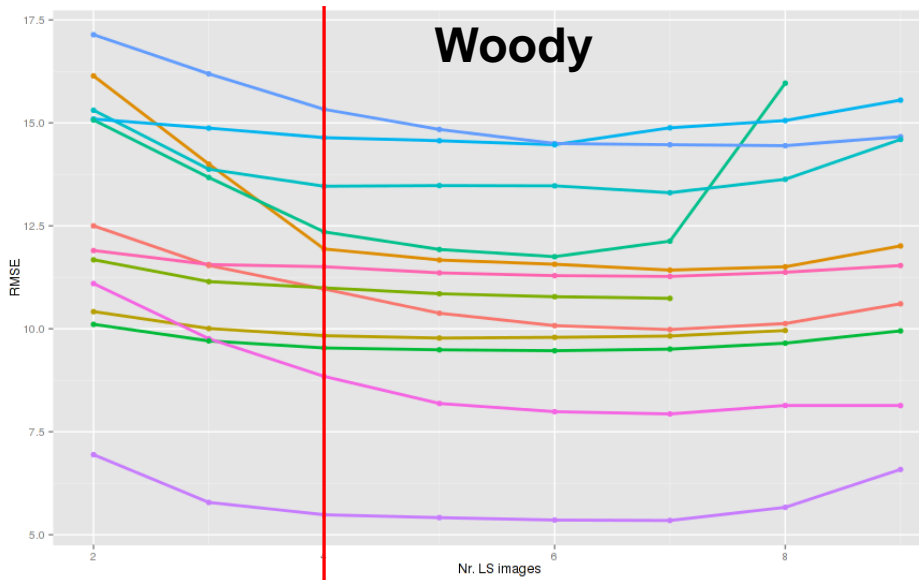




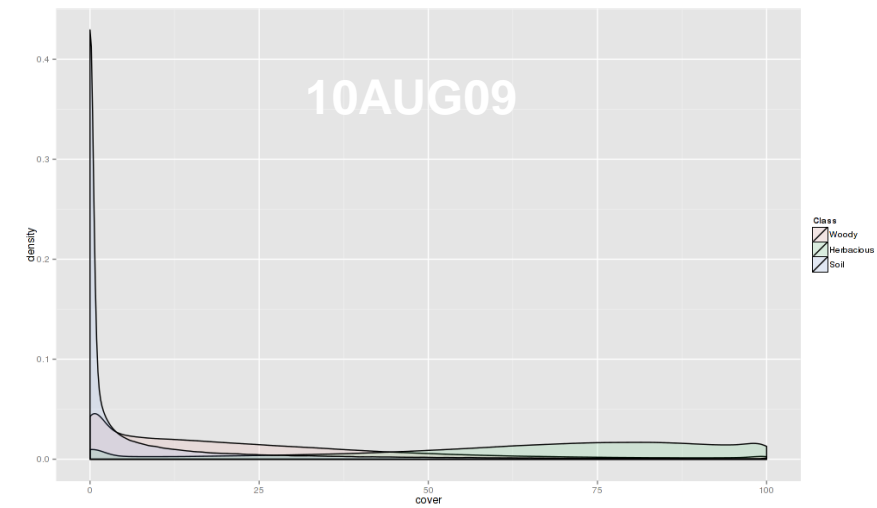
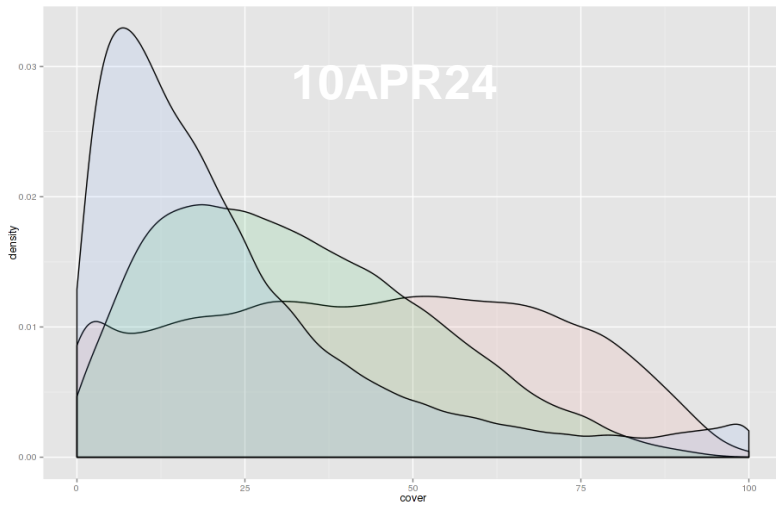
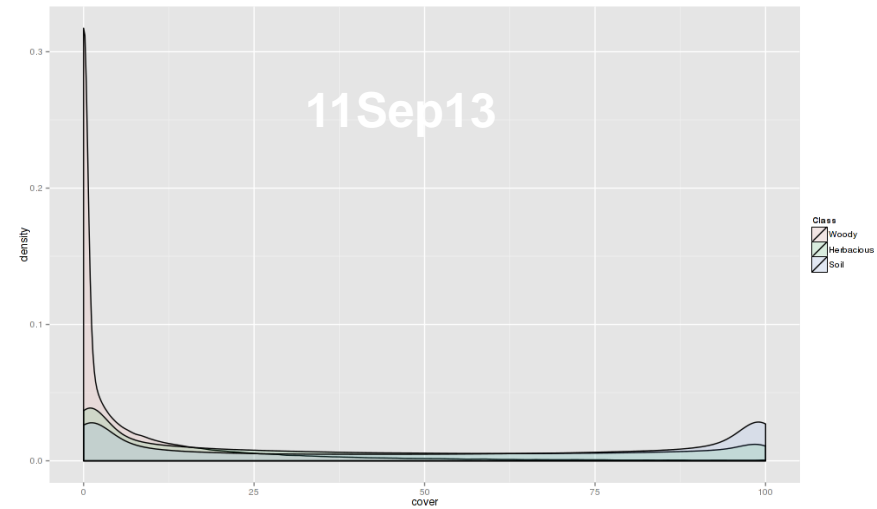
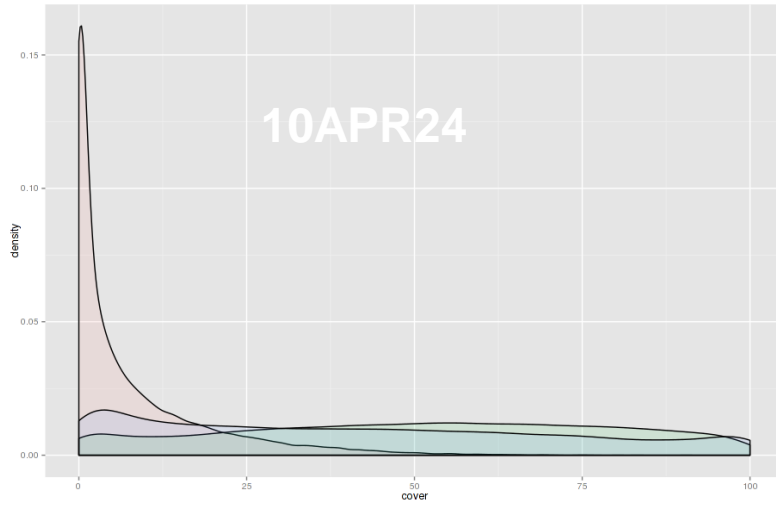
0 0.2 0.4 0.8 1.2
Kilometers

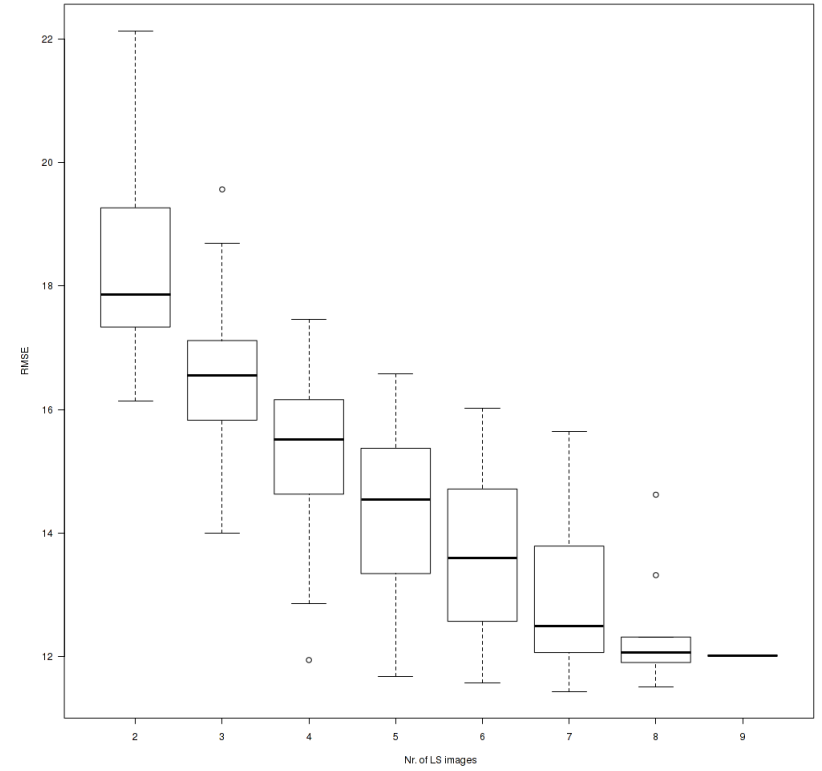
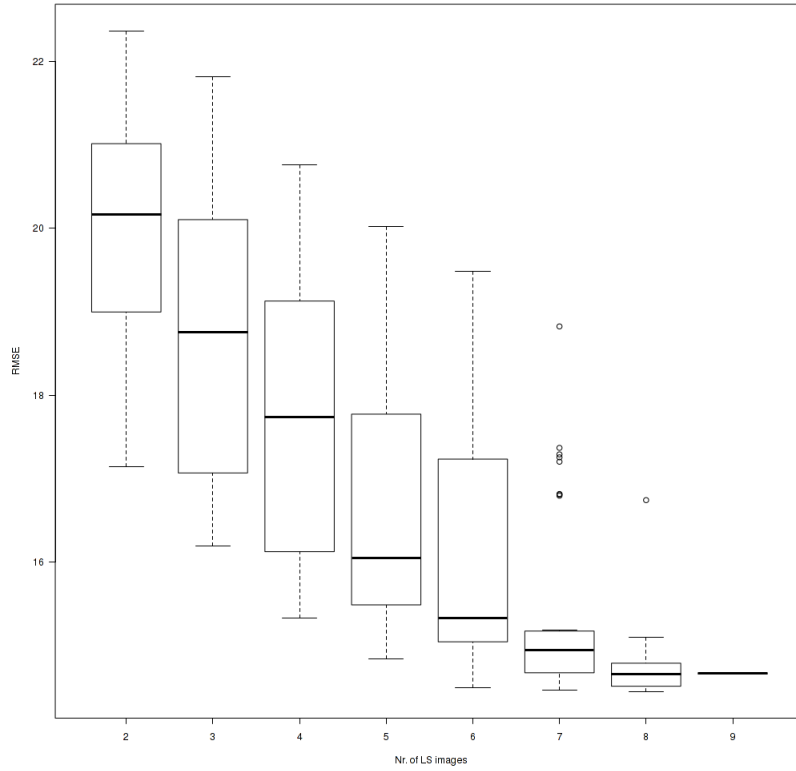
In situ: 40% Woody, 50
% Herbacious 10
%soil

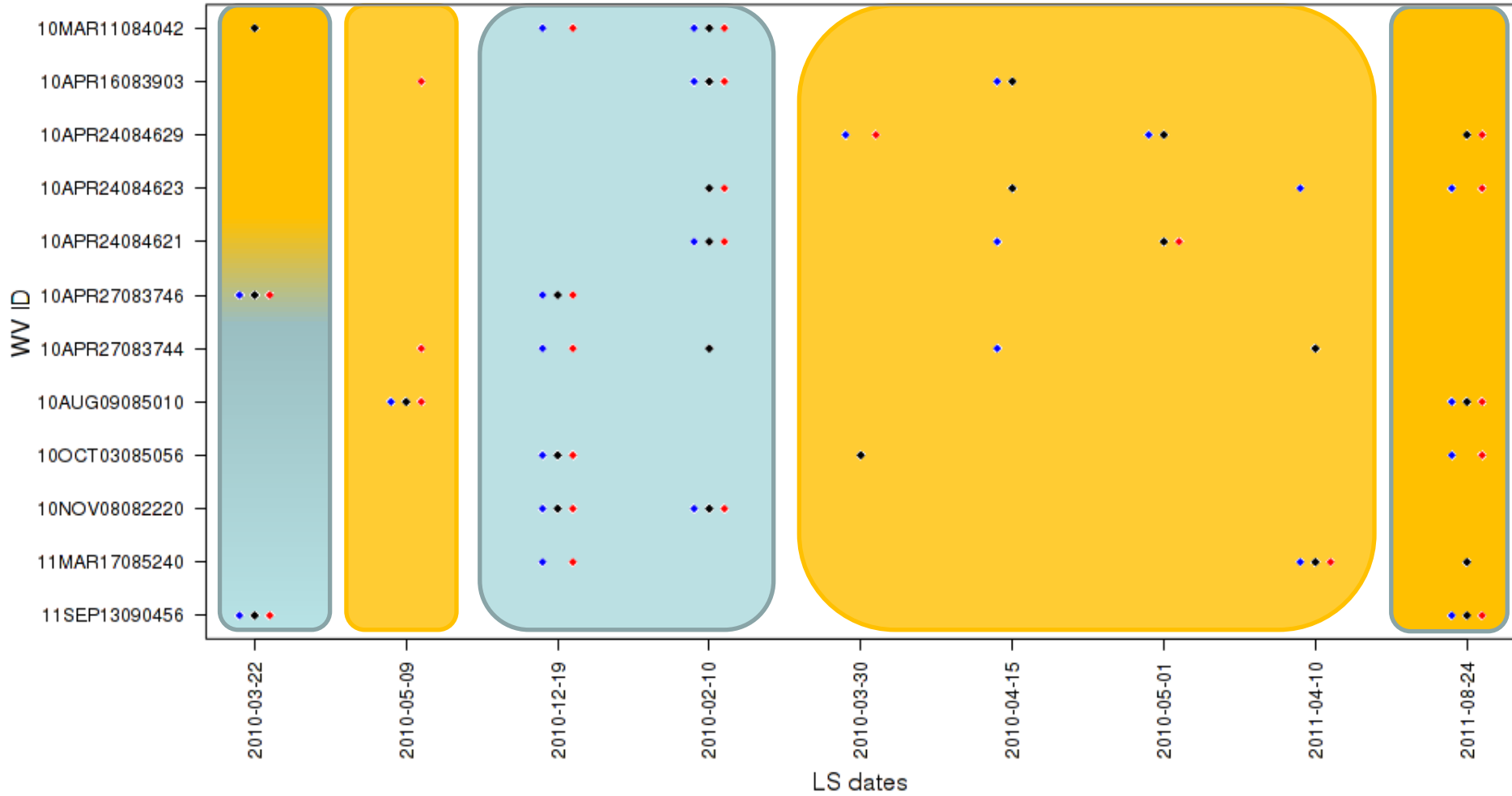


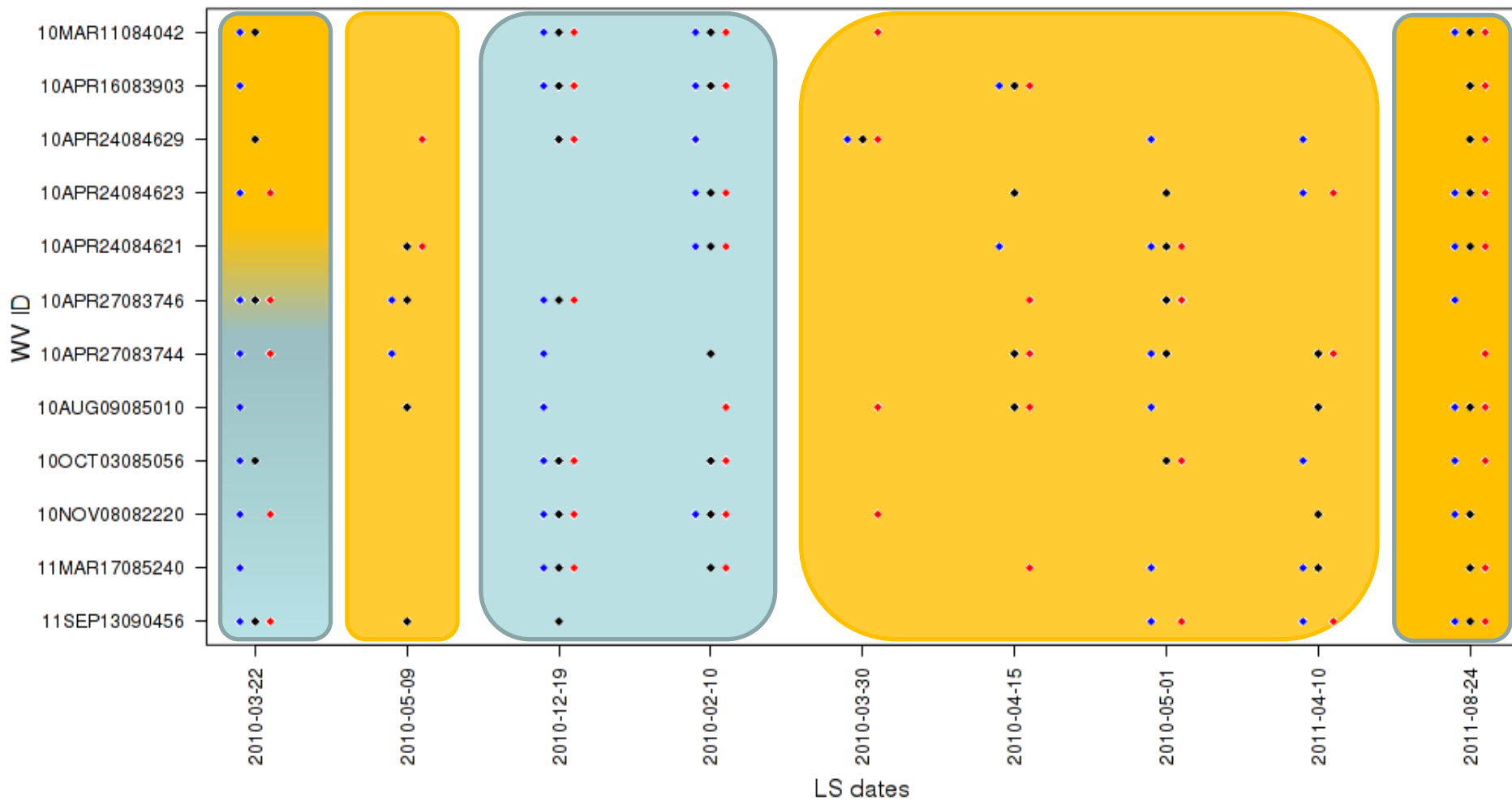


WVID	Woody	Herbaceous	Soil
10MAR11084042	10.97	16.02	5.88
10APR16083903	11.94	11.88	8.46
10APR24084629	9.54	19.49	18.18
10APR24084623	10.99	12.61	8.01
10APR24084621	9.83	11.19	8.82
10APR27083746	13.46	9.11	21.46
10APR27083744	12.35	15.07	9.20
10AUG09085010	14.64	16.68	9.70
10OCT03085056	15.33	16.90	17.64
10NOV08082220	5.49	9.54	11.78
11MAR17085240	8.85	15.76	11.13
11SEP13090456	11.51	22.19	23.30

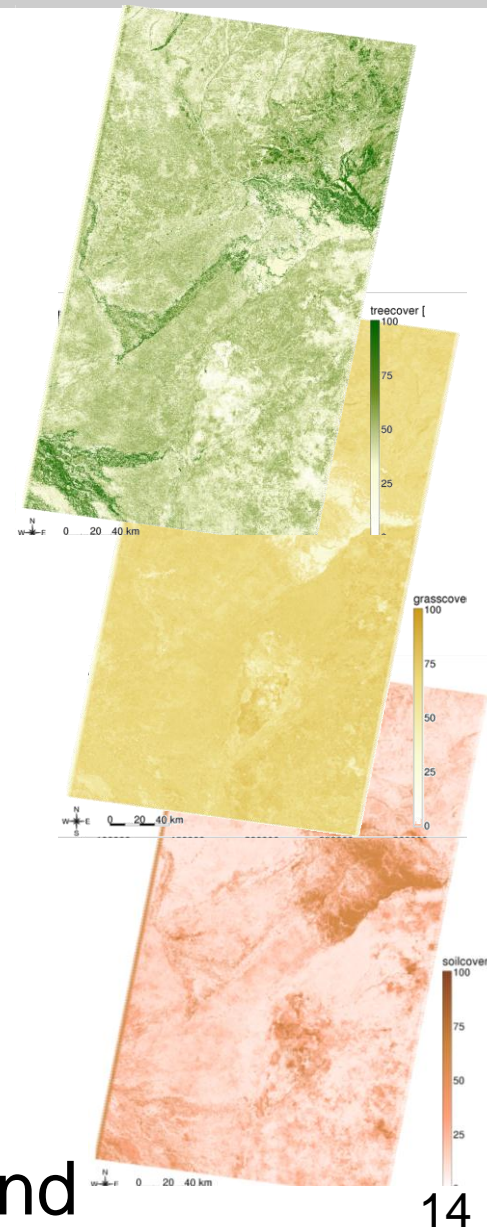








- Kontinuierliche Bedeckungsgrade sind ein passender Ansatz für semi-aride Ökosysteme
- Der optimale Zeitpunkt für WV Aufnahmen ist am Anfang der Trockenzeit
- WV Daten aus der Regenzeit und der späteren Trockenzeit können mit Abstrichen bei der Genauigkeit verwendet werden
- LS Daten sowohl von der trocken als auch regenzeit notwendig für gute Ergebnisse
- Selbst lange Abstände zwischen WV und LS möglich



Dem Wochenende steht nichts im Wege!

