

Veg3d und COSMO-CLM (CCLM)

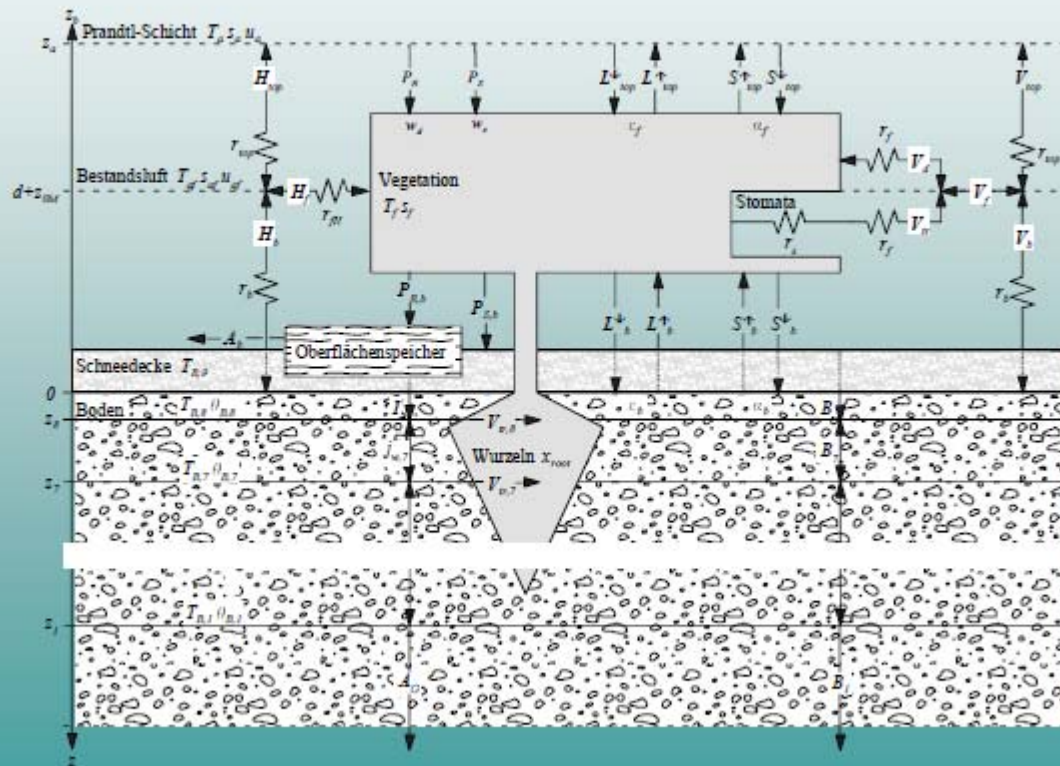
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mit Beiträgen von:
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Institut für Meteorologie und Klimaforschung

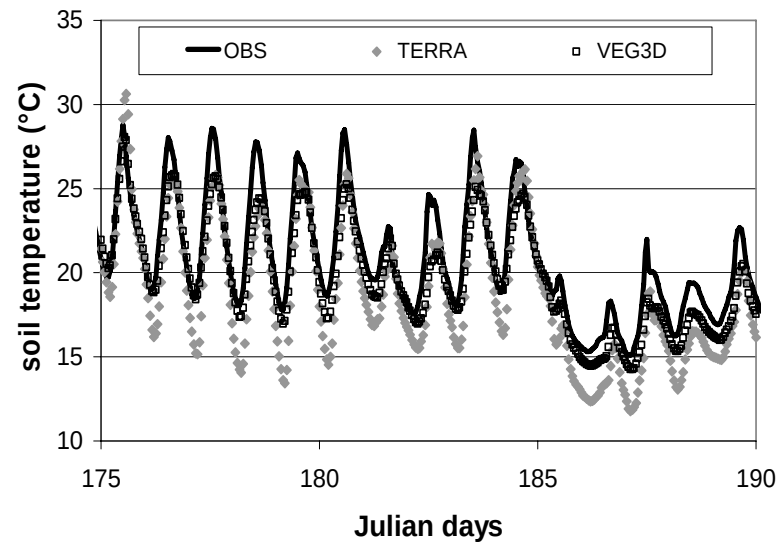
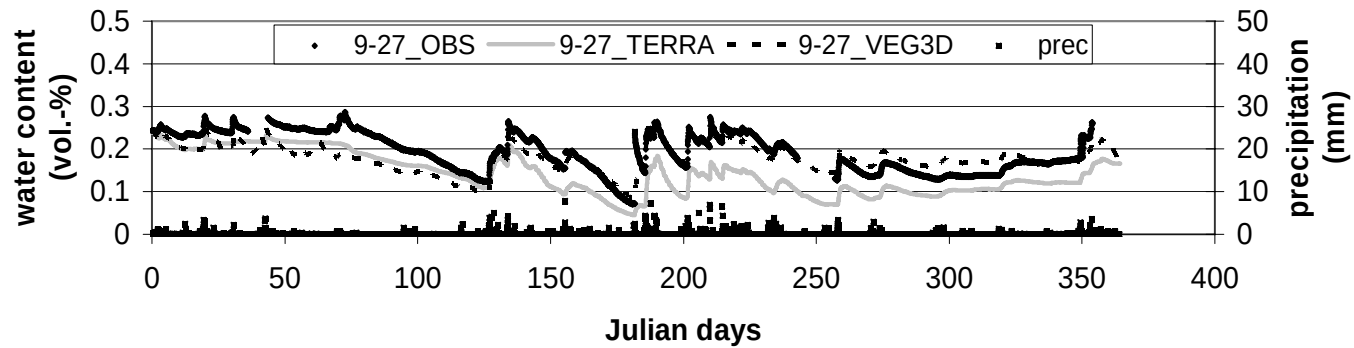


Struktur VEG3D

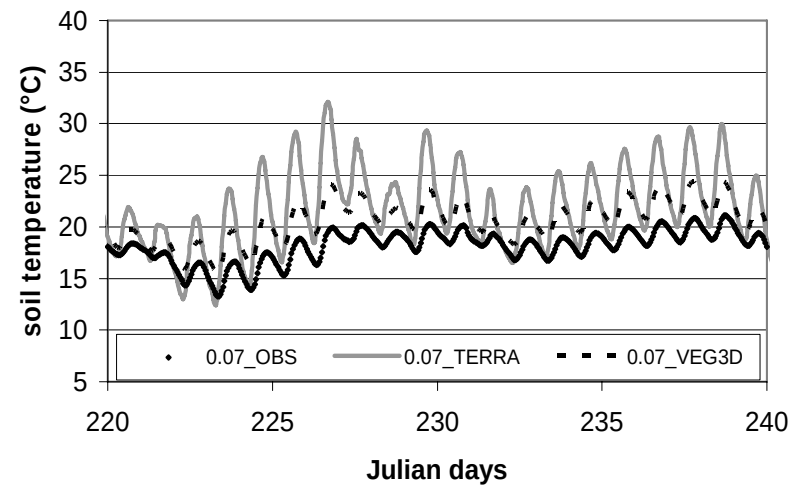
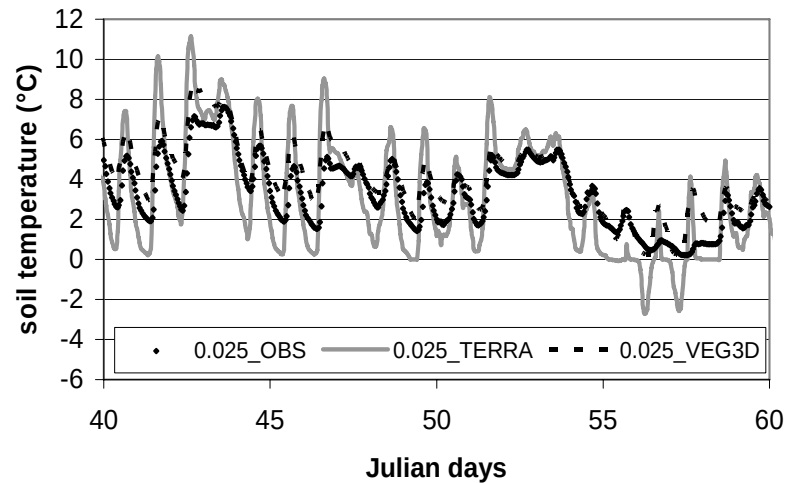


Schädler (1990), Lenz (1996), Grabe (2002), Braun (2002)

Lindenberg / Gras

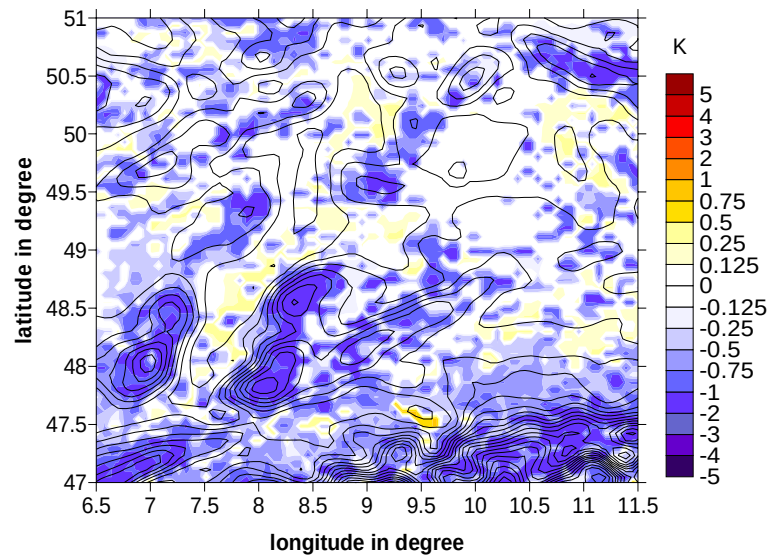


Hartheim / Wald

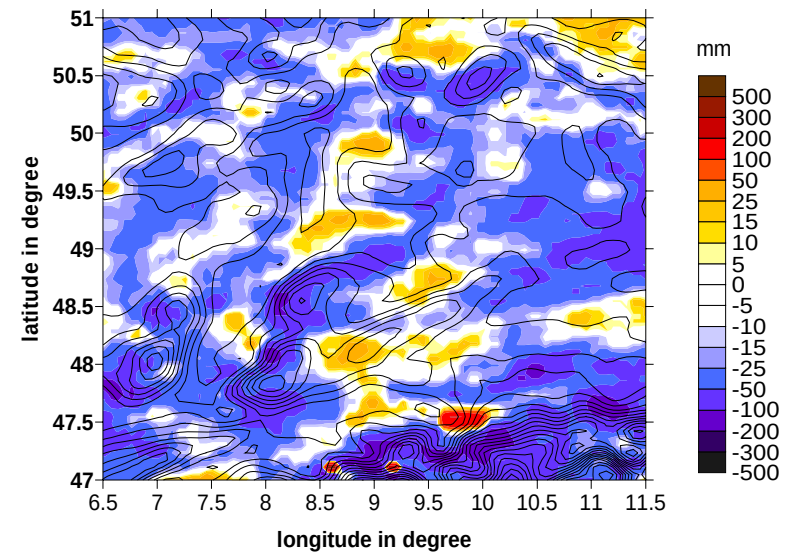


VEG3D-TERRA 1991-1995

2m-Temperatur



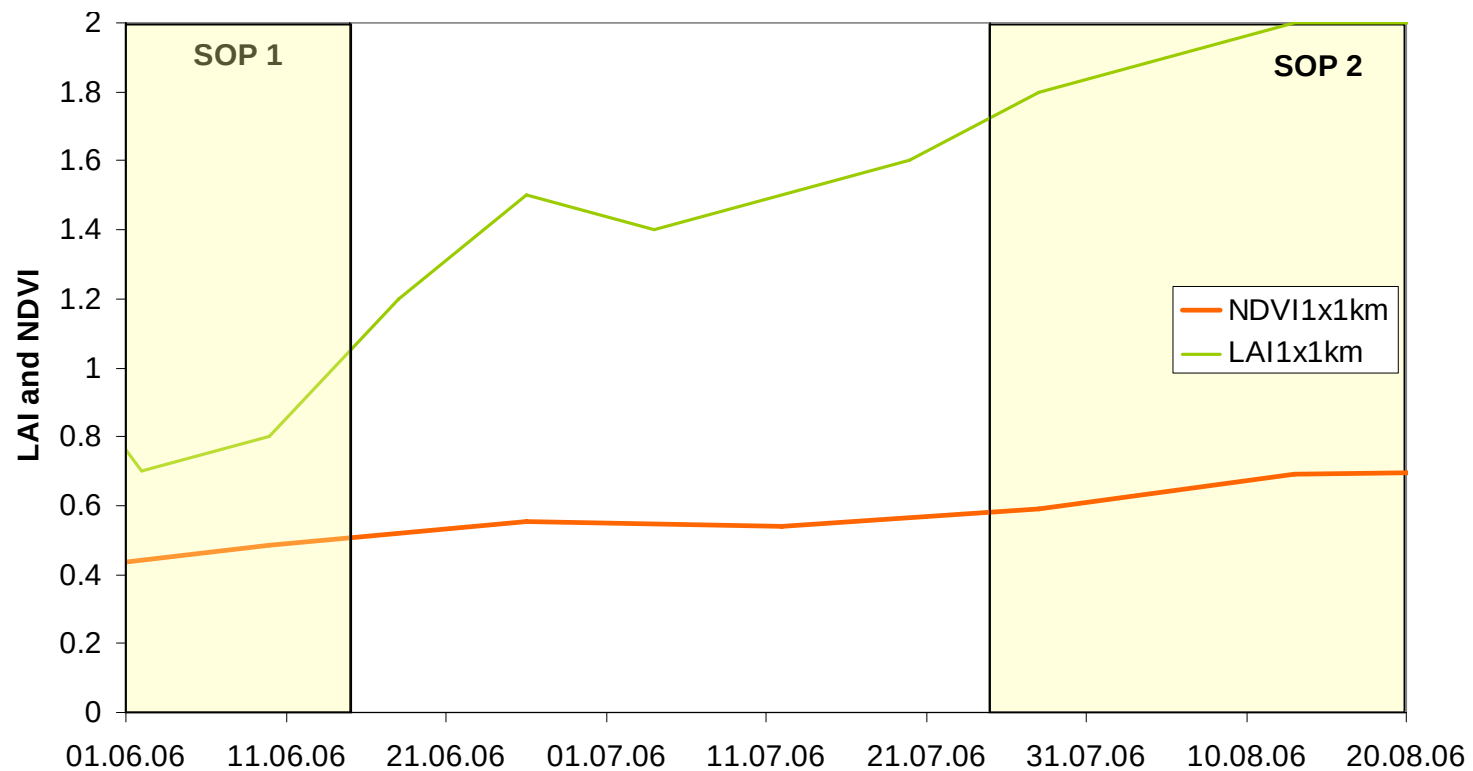
Niederschlag



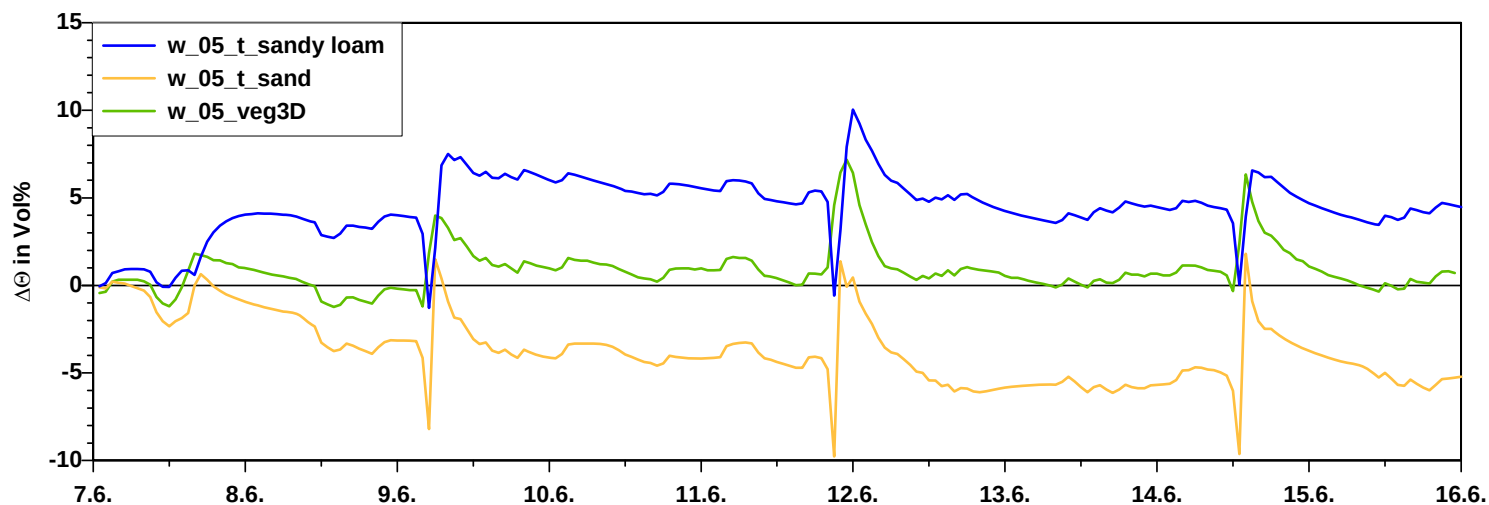
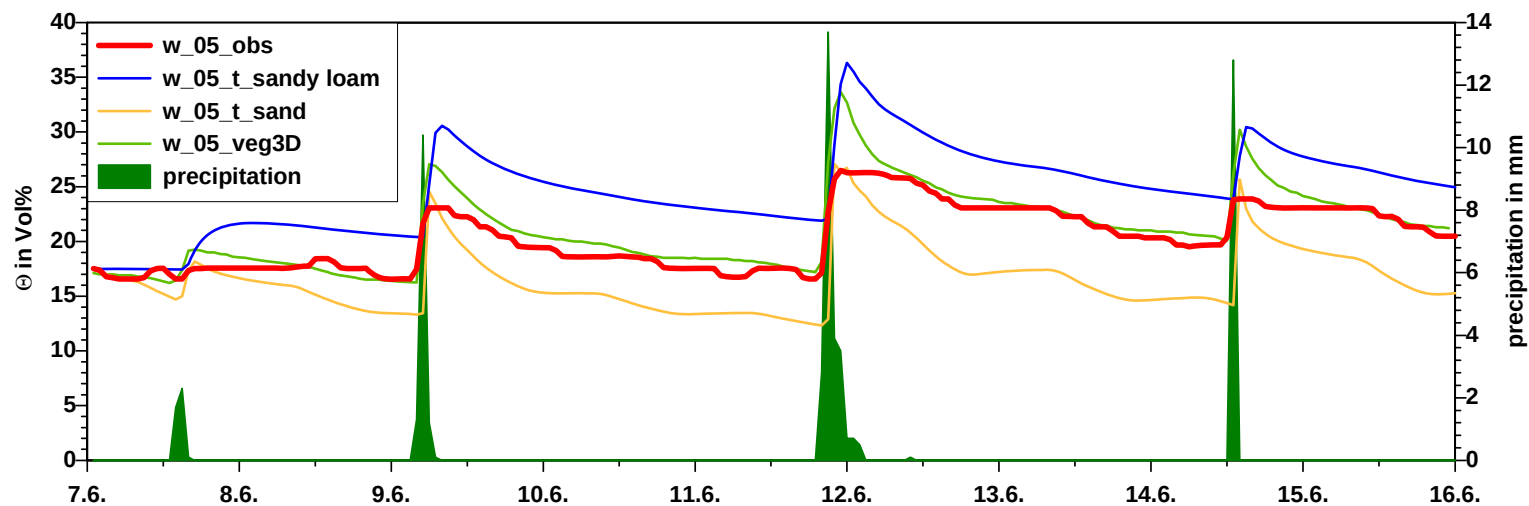
Mit TERRA über Mittelgebirgen deutlich wärmer und höhere Niederschlagssumme als mit VEG3D
Mit VEG3D in flachen Gebieten etwas wärmer

LAI und Pflanzenbedeckungsgrad

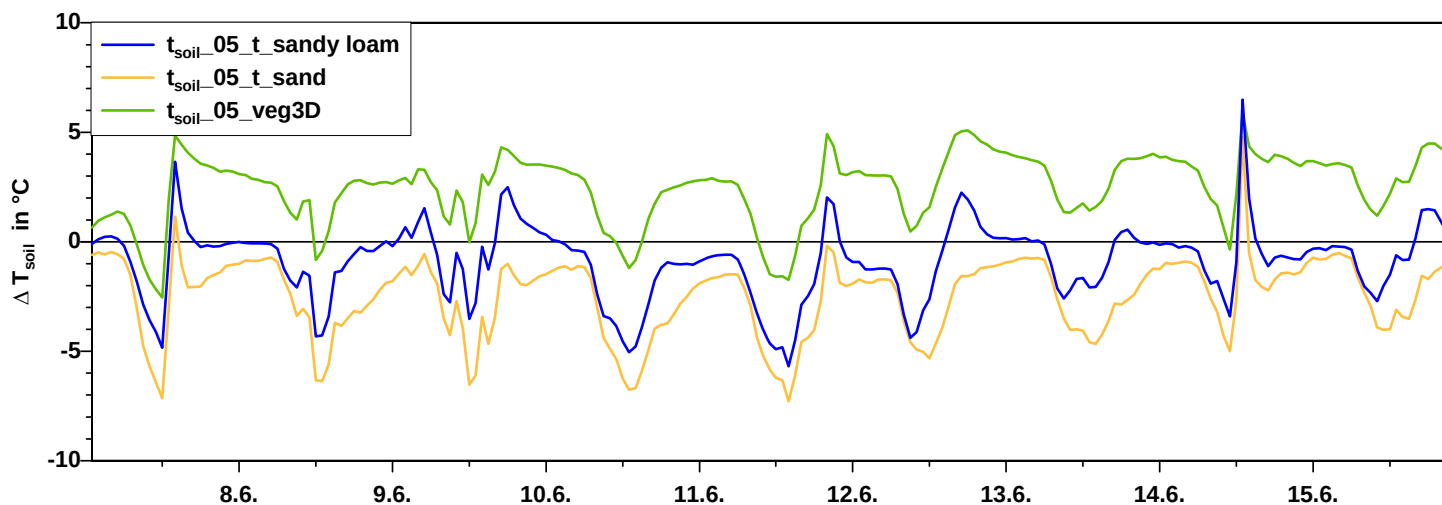
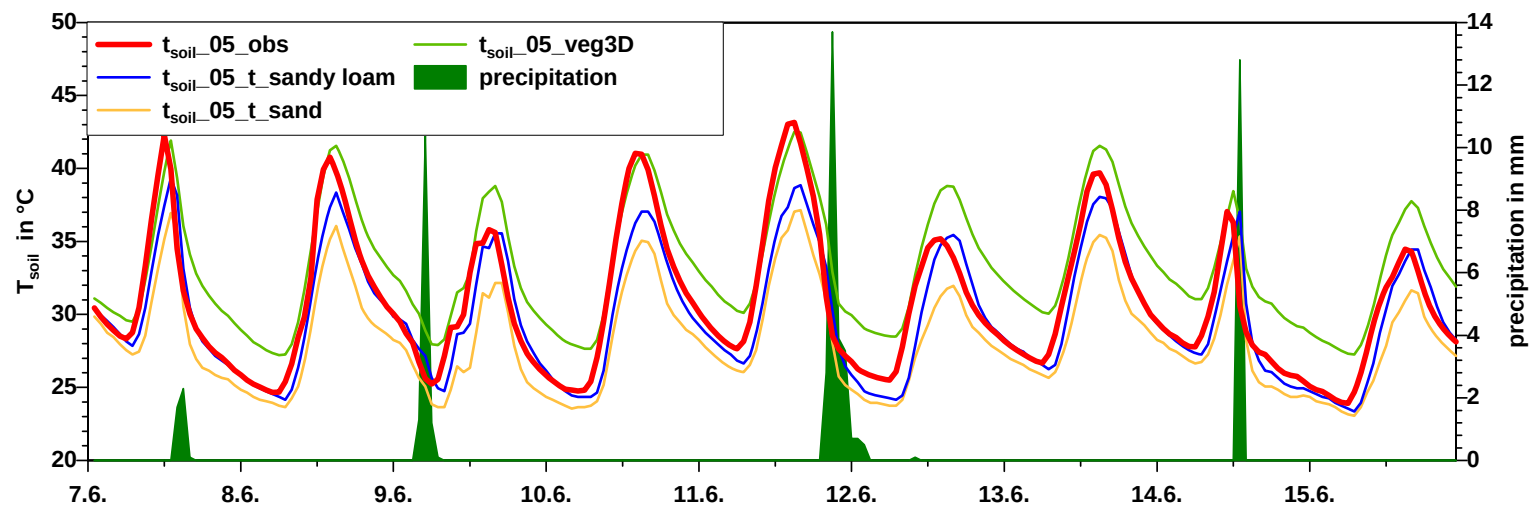
- Leaf Area Index (LAI) und Normalized Difference Vegetation Index (NDVI)
- MODIS-Satellit, 8-Tage bzw. 16-Tage Komposit



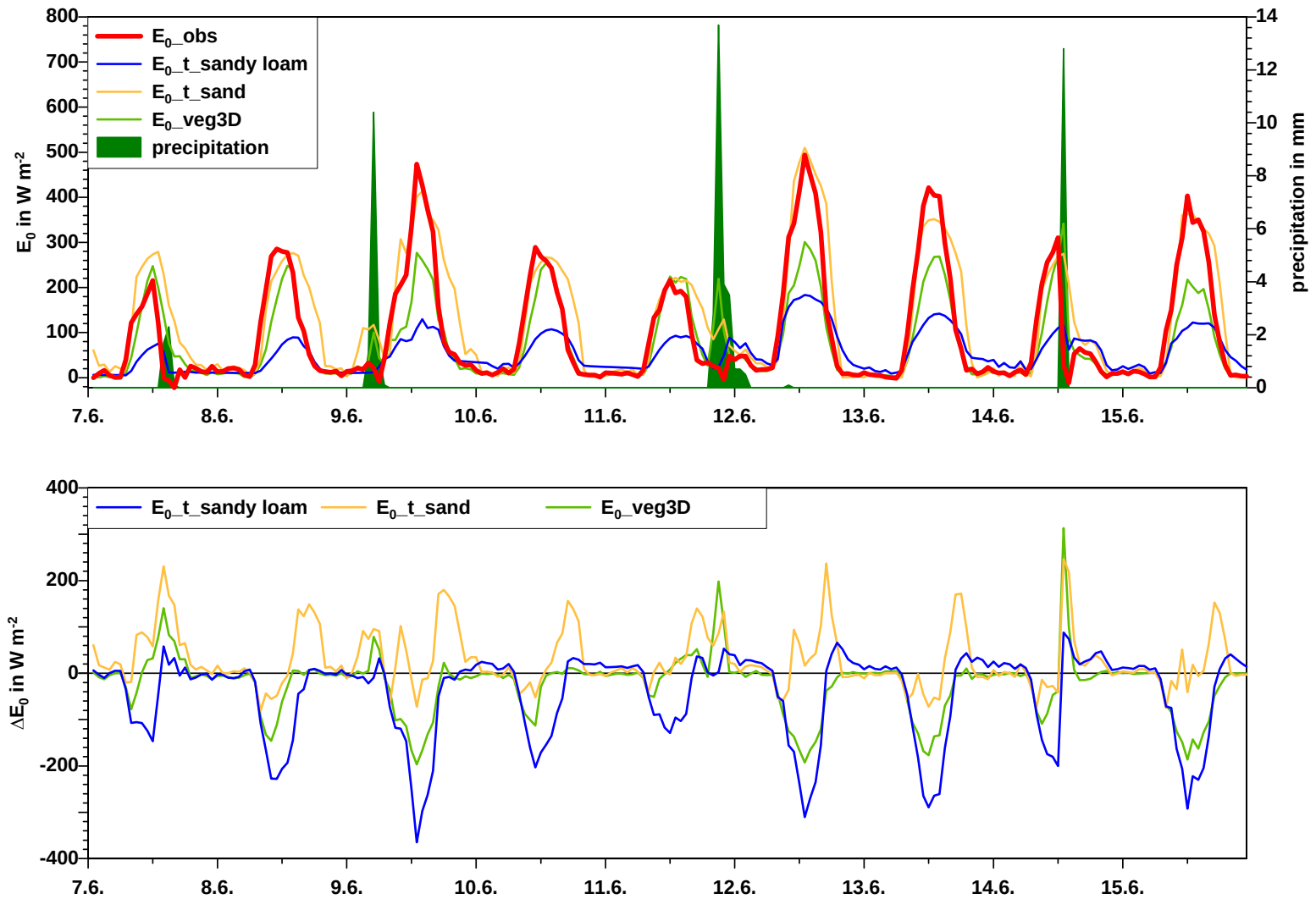
Bodenfeuchte (SOP 1)



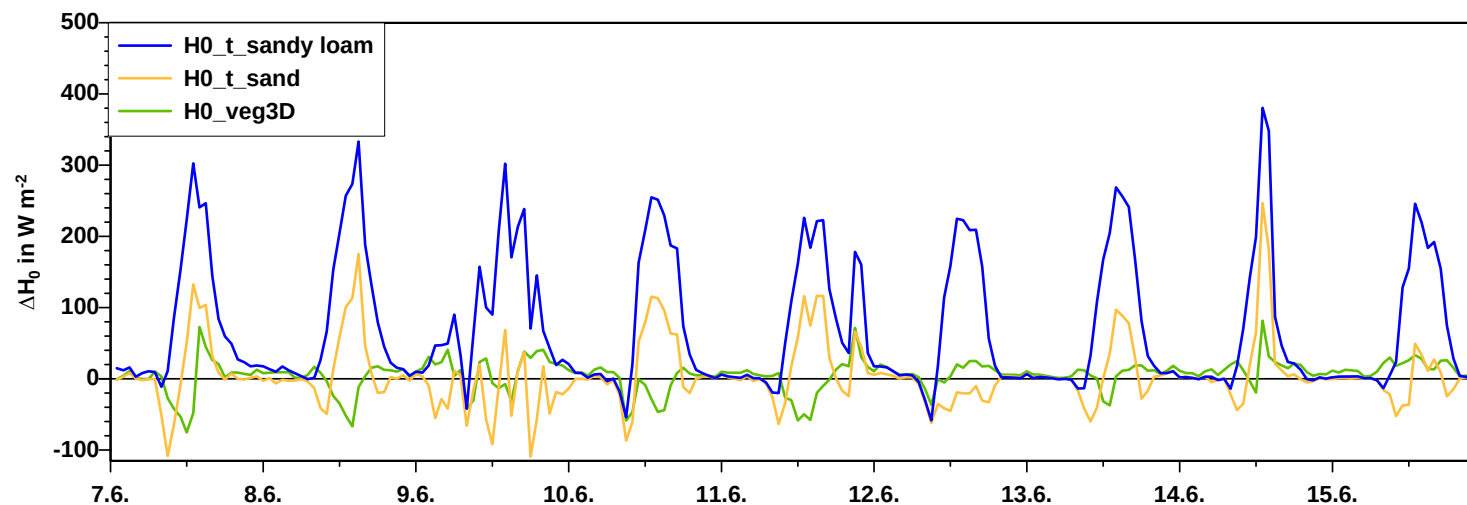
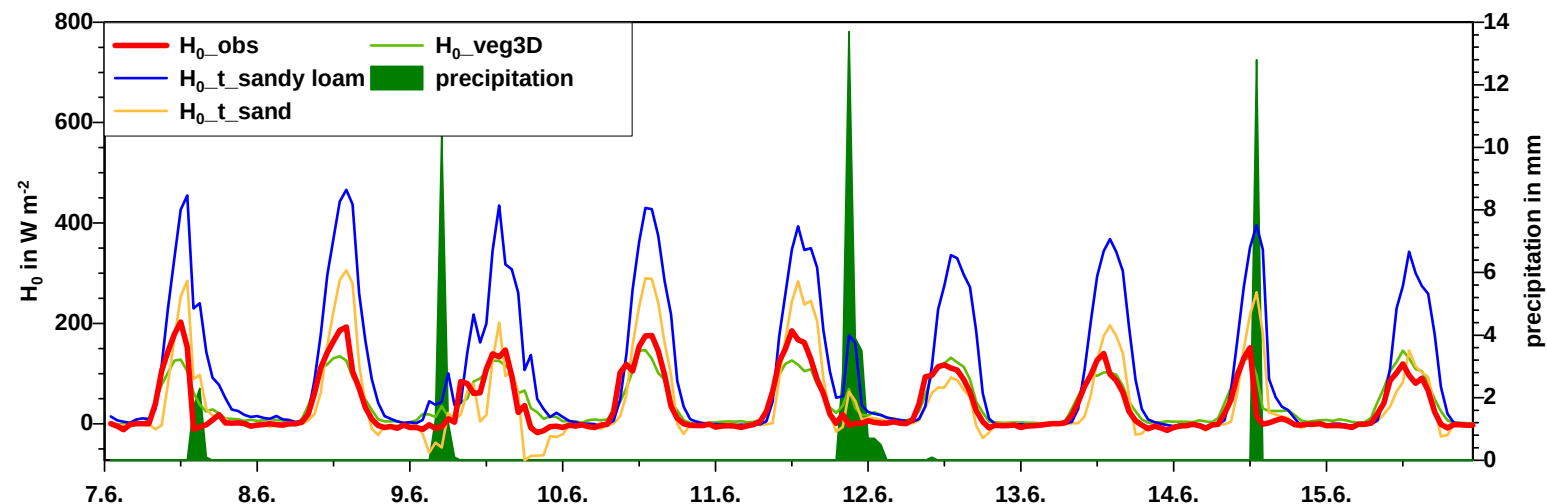
Bodentemperatur (SOP 1)



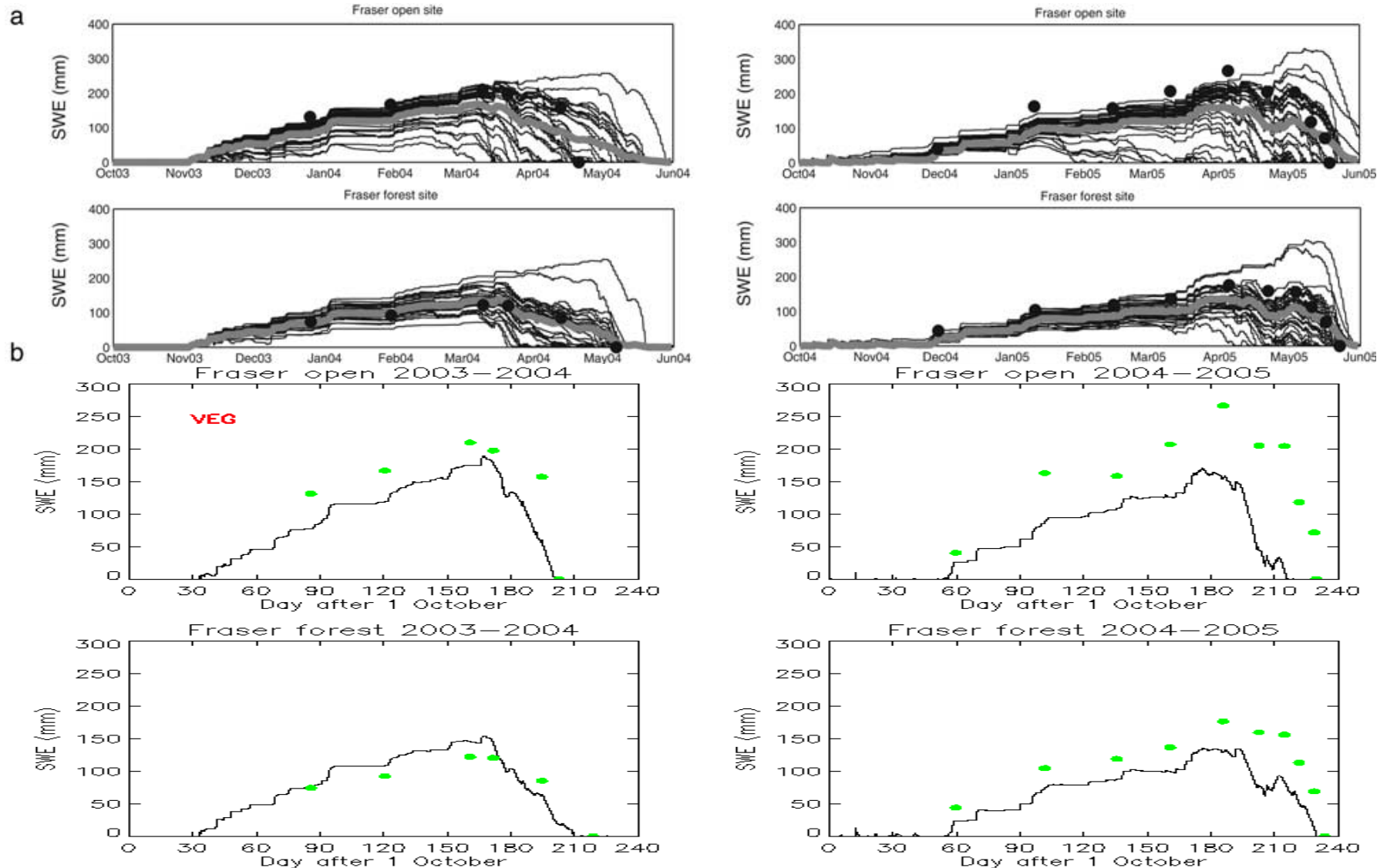
Latenter Wärmestrom (SOP 1)



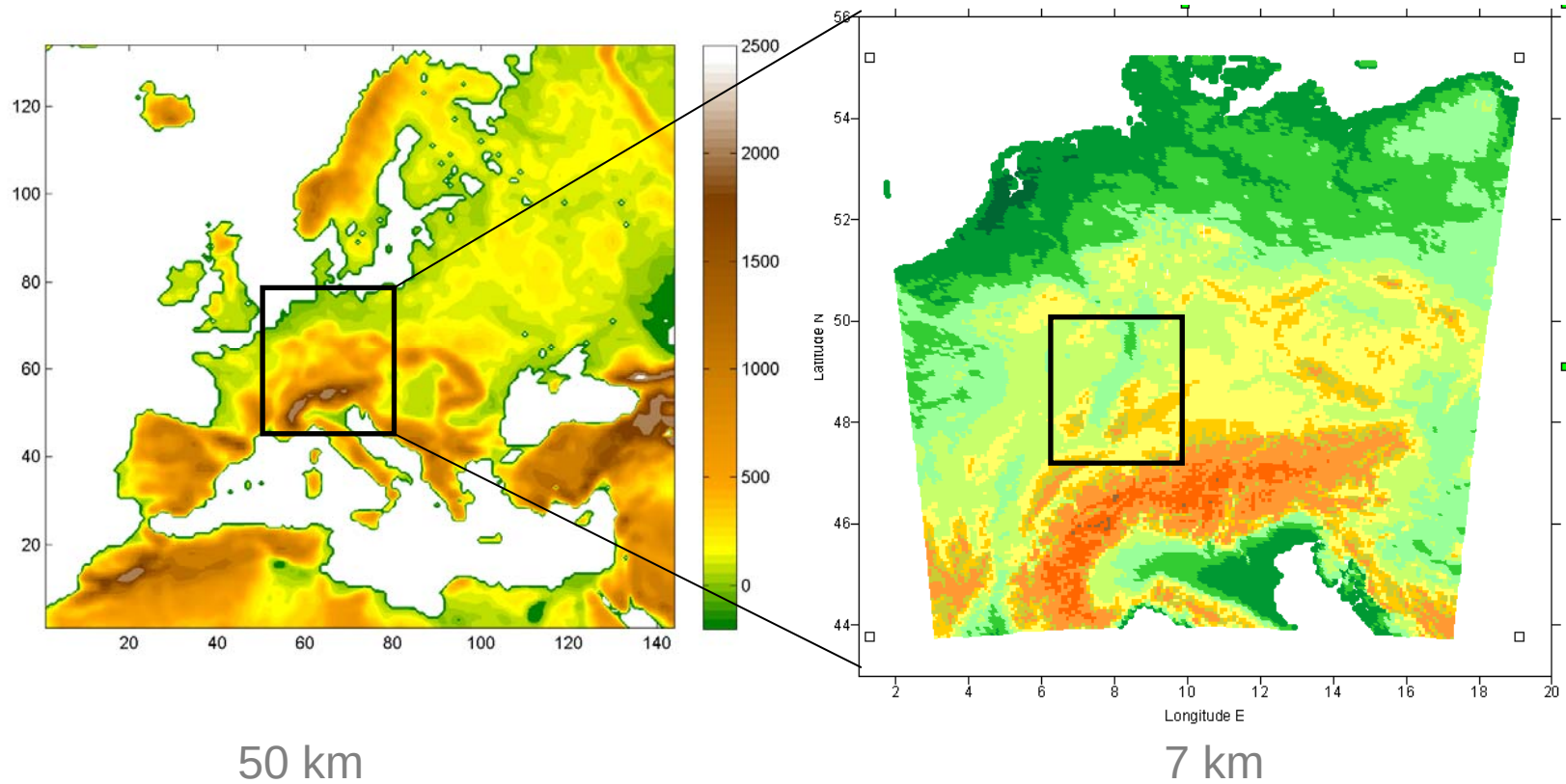
Sensibler Wärmestrom (SOP 1)



SnowMIP2 (Rutter et al., BAMS 2009)



Gebiet

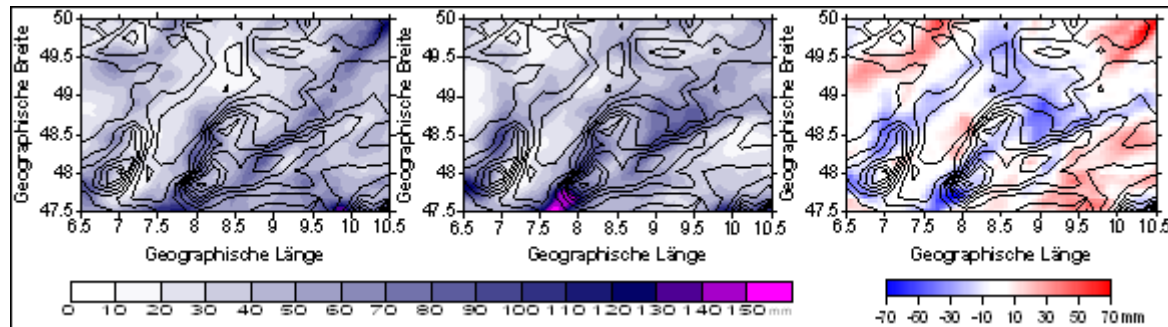


Niederschlag Veg3d-TERRA 8.8-28.8.2001

Veg3d

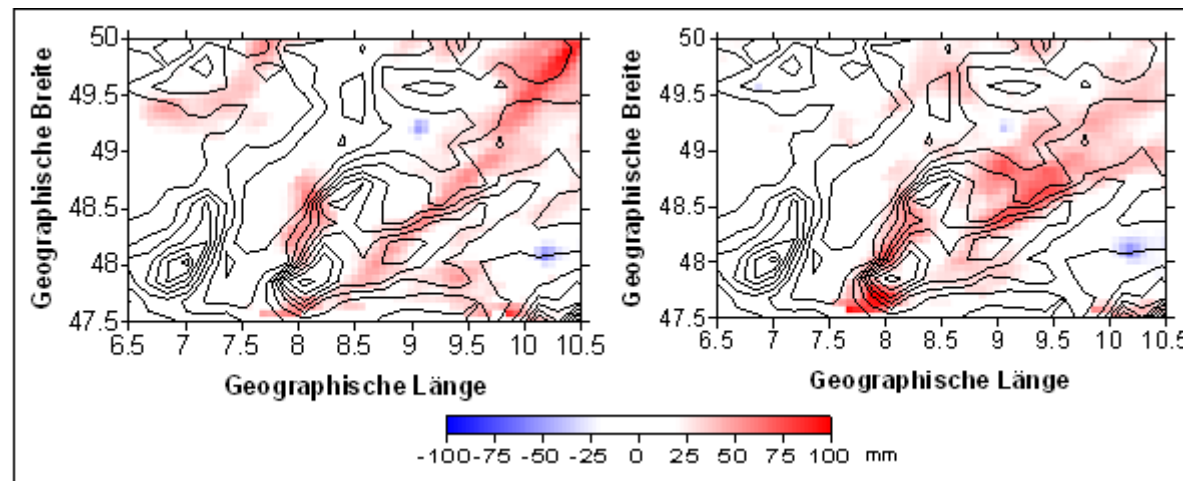
TERRA

Differenz



Veg3d-Obs

TERRA-Obs

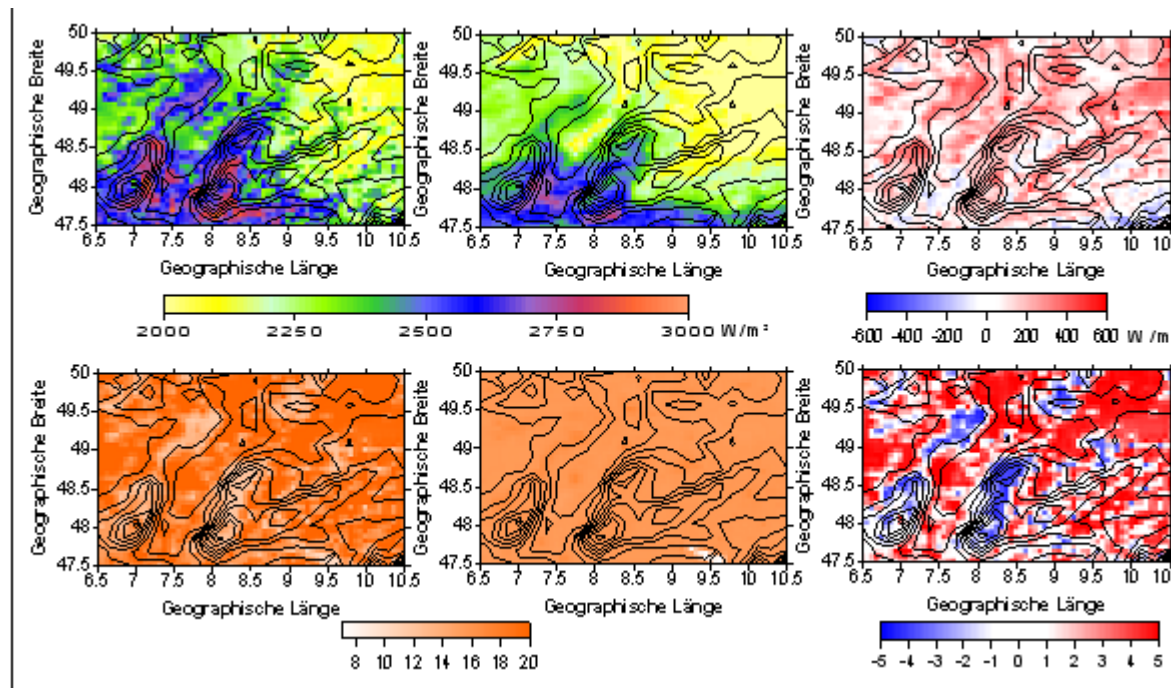


Strahlungsbilanz und Albedo 8.8.-28.8.2001

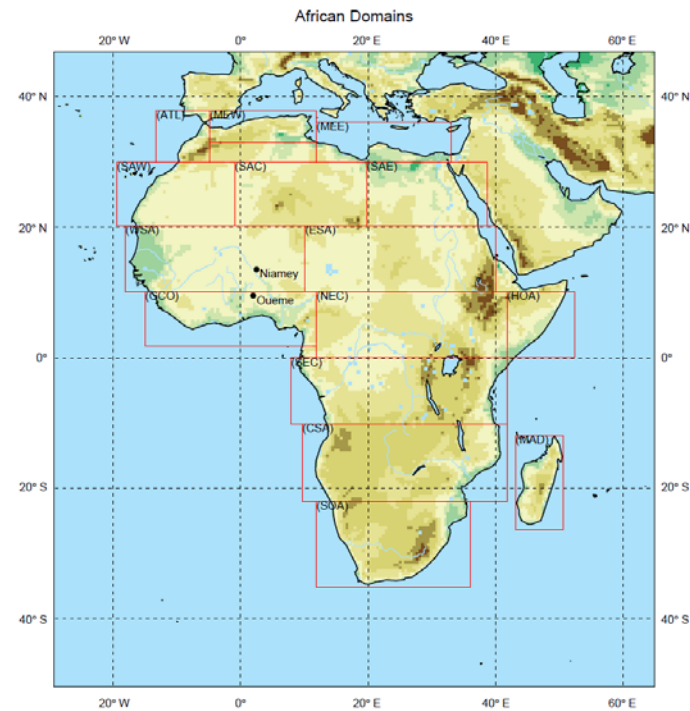
Veg3d

TERRA

Differenz



für CORDEX Afrika verwenden?



Wasserbilanz aufsummiert von Januar 1991 bis Januar 2001

Model run	Evaporation (sum)	Surface runoff (sum)	Ground runoff (sum)	Precipitation (sum)	Water content (difference)
TERRA	5678	1933	4114	11643	37
VEG3D	5209	2344	3651	11355	219