

Further development of the tile approach for TERRA

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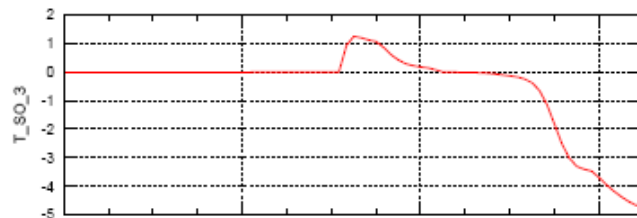
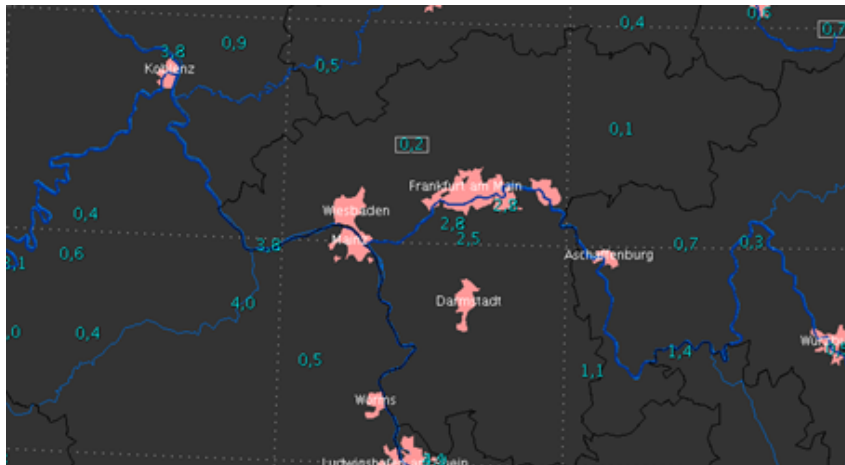
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Outline

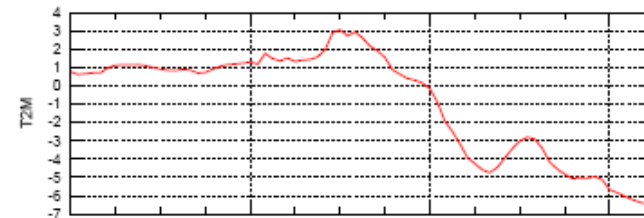
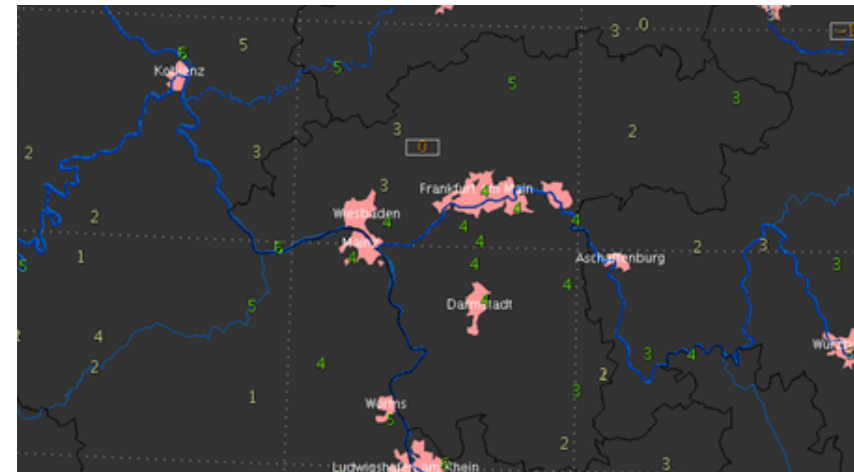
- Motivation
- Tile approach (recall)
- Snow as a tile

Motivation

Soil temperature, 5 cm



2m temperature

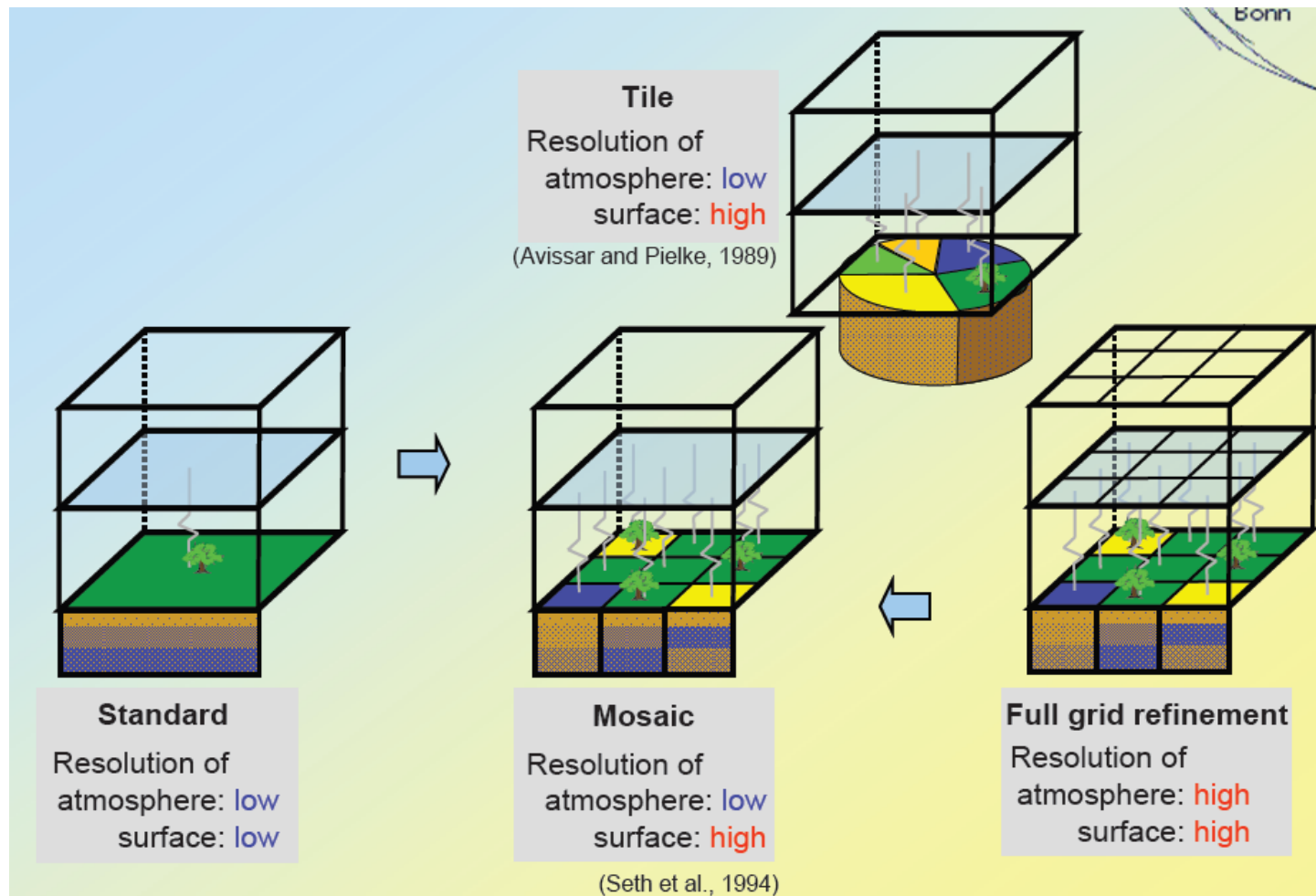


One profile of temperature and moisture in the soil
for snow covered and snow-free parts

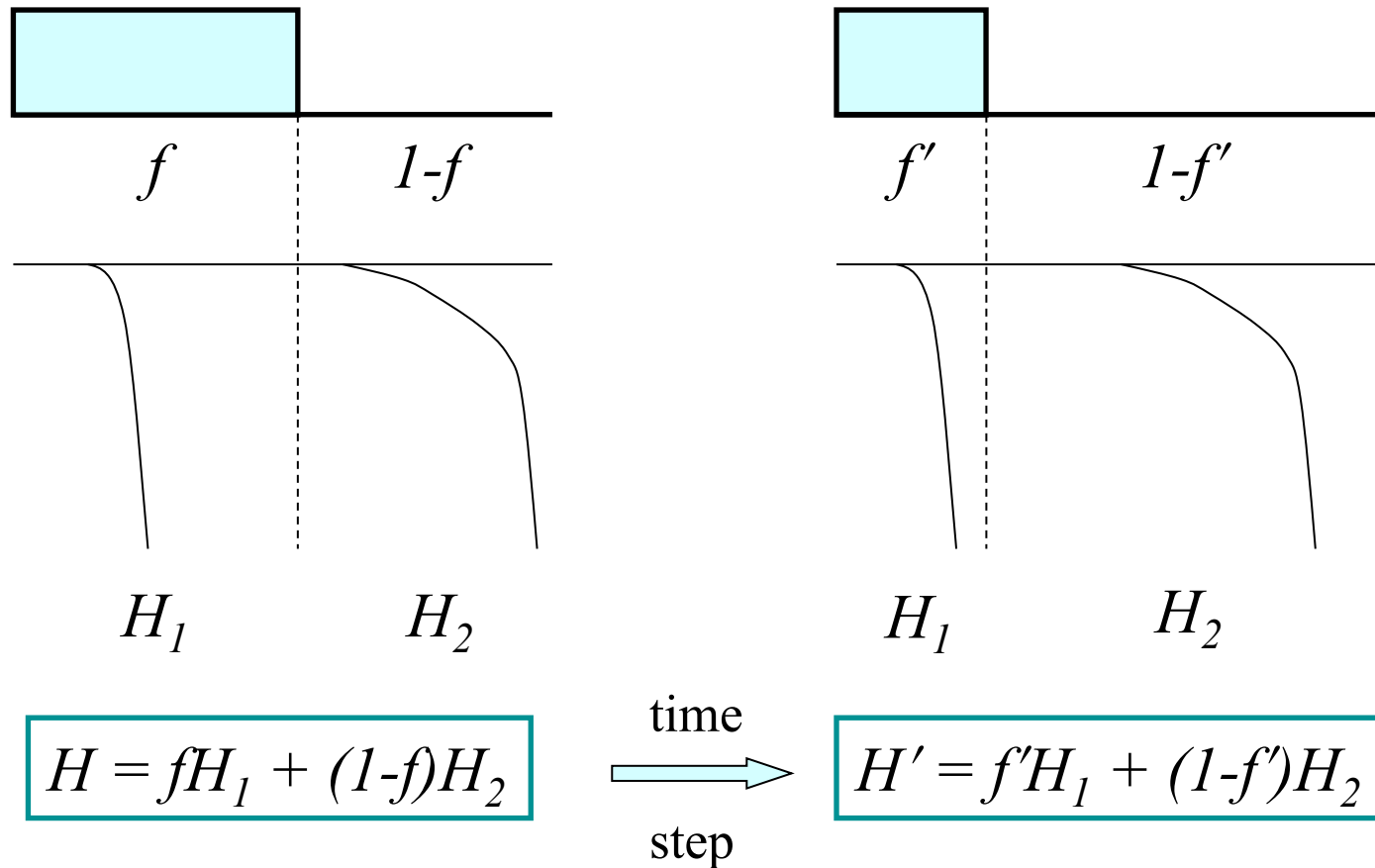


By any partial snow cover the soil temperature can not exceed 0°C
(equivalent to instantaneous horizontal heat transfer)

Tile approach



Snow as a tile



$\Delta H = H' - H$ should be added to the growing tile

Tile approach

set up experiment

test experiments: 1 tile, 5 tiles, 10 tiles

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