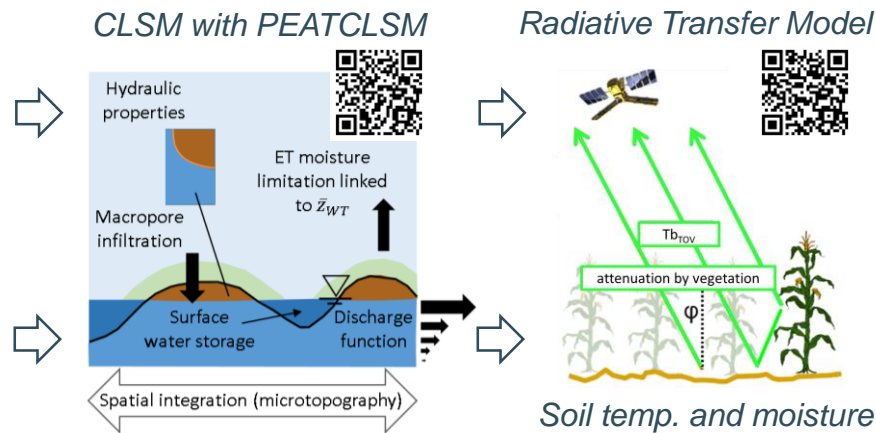
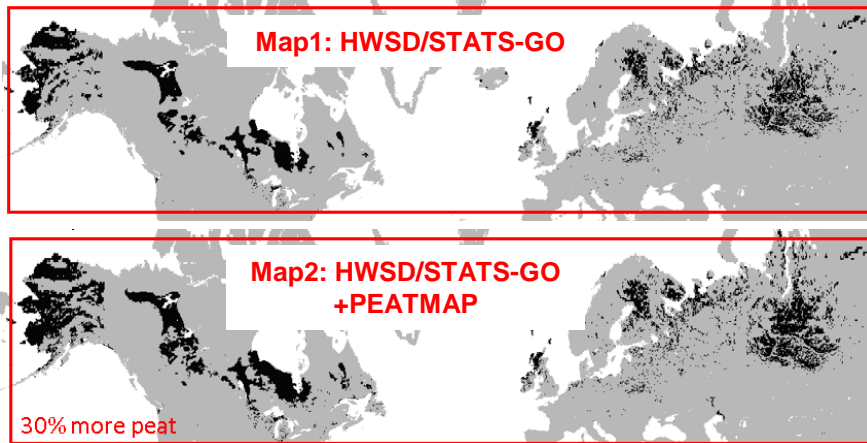


- Peatlands on their way into Earth System Models → Which map should we use?
- PEATMAP, HWSD, SoilGrids, other new peat-specific machine-learning products ... → variations in peatland extent
- **Here:** Physics-based evaluation with L-band brightness temperature observations and global Land Surface Modeling



- 10 years of simulations at 9 km resolution
- Residuals between SMOS L-band Tb observations (O) and predictions (F)
- Evaluation of O-F for 'new' peat area is shown

Conclusions:

- 'New' peat area largely approved by evaluation in Tb space
- Map2 will be input to future versions of SMAP Level-4 product
- Next: tropical peatland maps

std(O-F) (Map2) – std(O-F) (Map1) [K]

