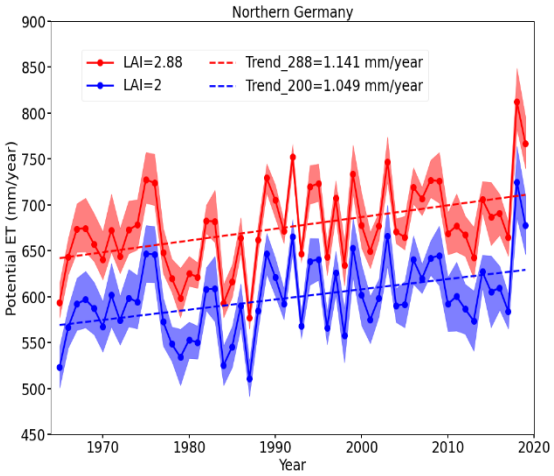
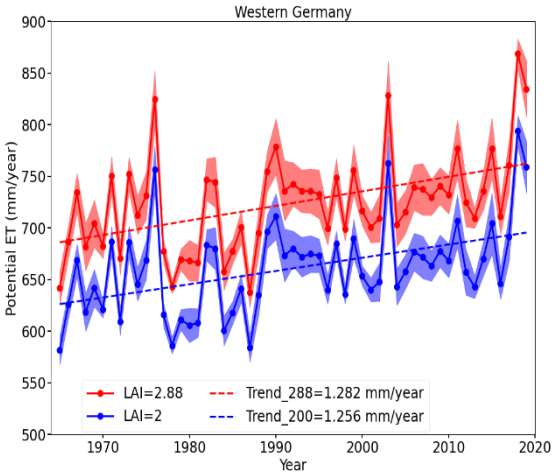
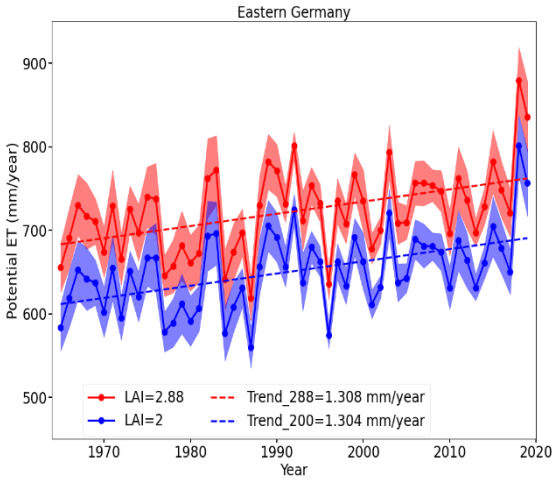
Supplementary material



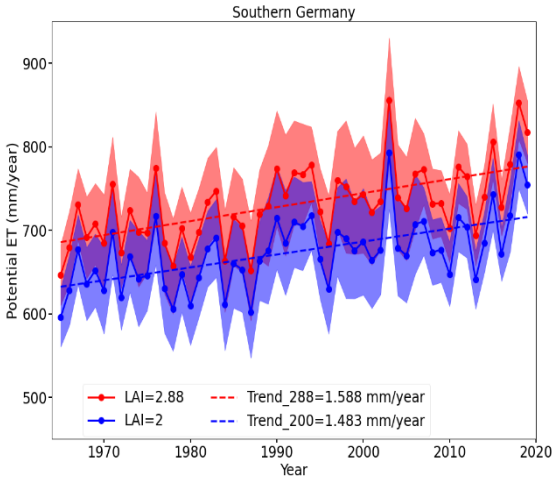
(a)



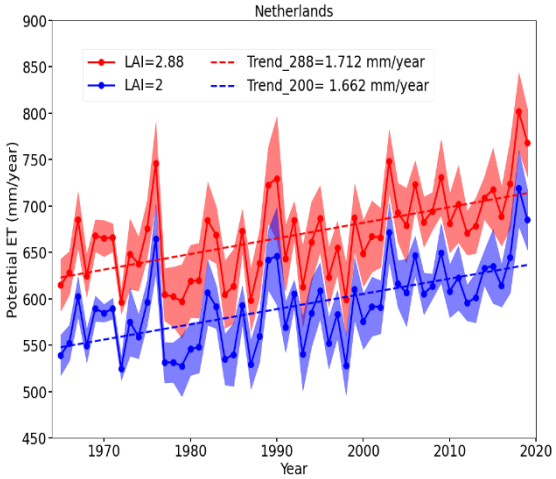
(b)



(c)

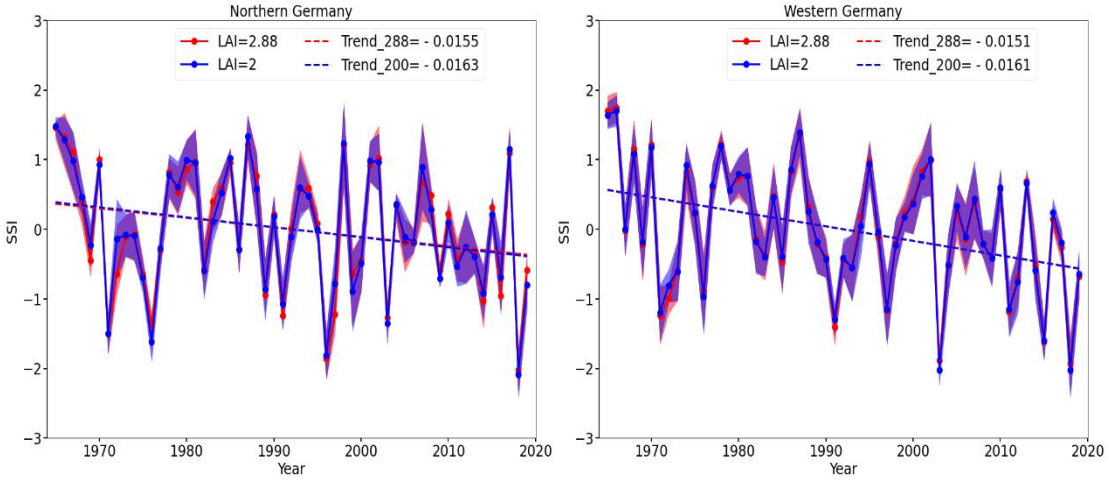


(d)



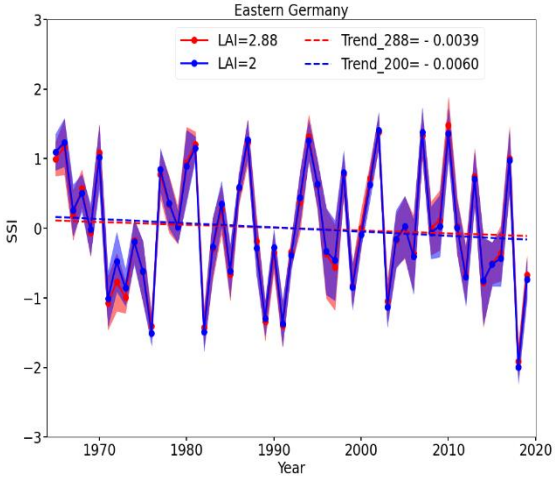
(e)

Figure S1. Potential ET for HYDRUS-1D simulations with LAI=2.88 (red) and LAI=2.0 (blue) for (a) North, (b) West, (c) East and (d) South of Germany and (e) the Netherlands. Shaded areas indicate the 95% confidence interval estimated from (the limited) number of sites in each domain.

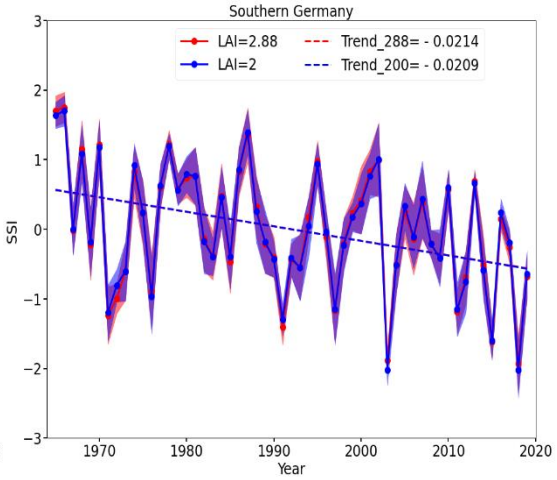


(a)

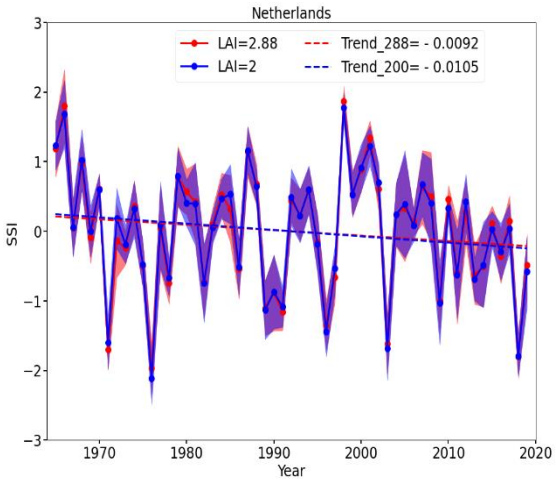
(b)



(c)

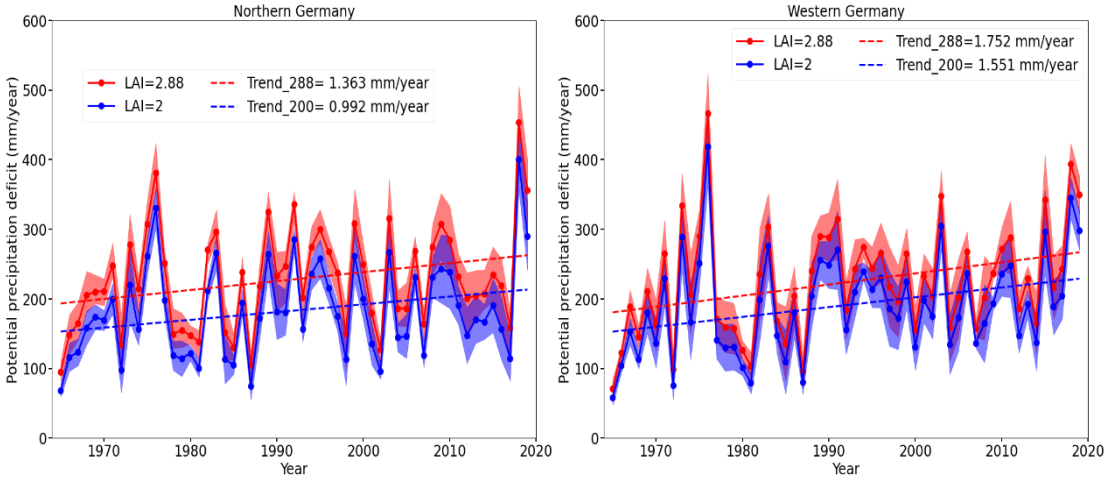


(d)

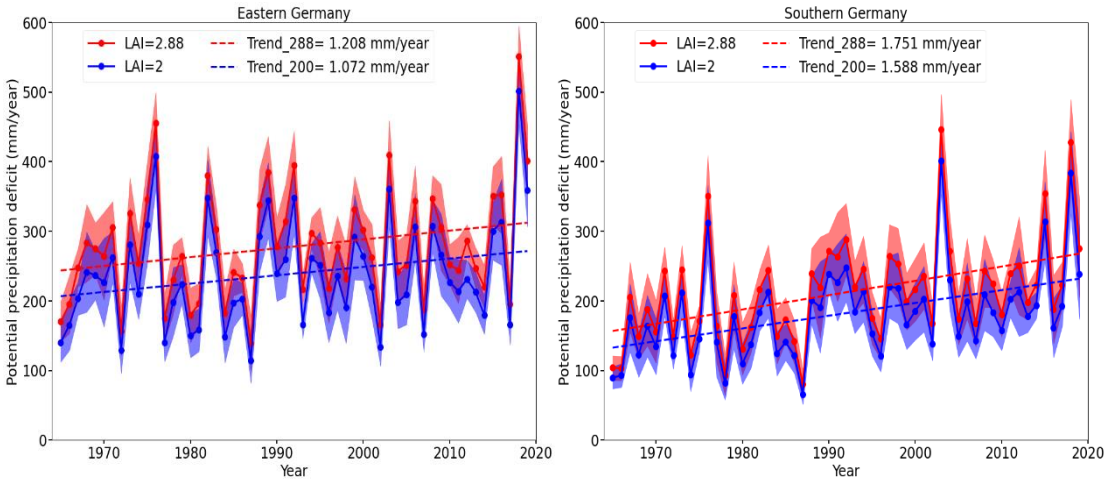


(e)

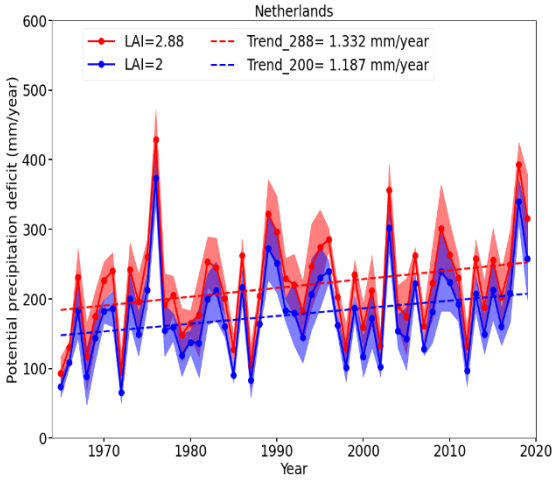
Figure S2. Standardized soil moisture index for HYDRUS-1D simulations for LAI=2.88 (red) and LAI=2.0 (blue) for ((a) North, (b) West, (c) East and (d) South of Germany and (e) the Netherlands. Shaded areas indicate the 95% confidence interval estimated from (the limited) number of sites in each domain.



(a) (b)



(c) (d)



(e)

Figure S3. Potential precipitation deficit for HYDRUS-1D simulations for LAI=2.88 (red) and LAI=2.0 (blue) for (a) North, (b) West, (c) East and (d) South of Germany and (e) the Netherlands. Shaded areas indicate the 95% confidence interval estimated from (the limited) number of sites in each domain.

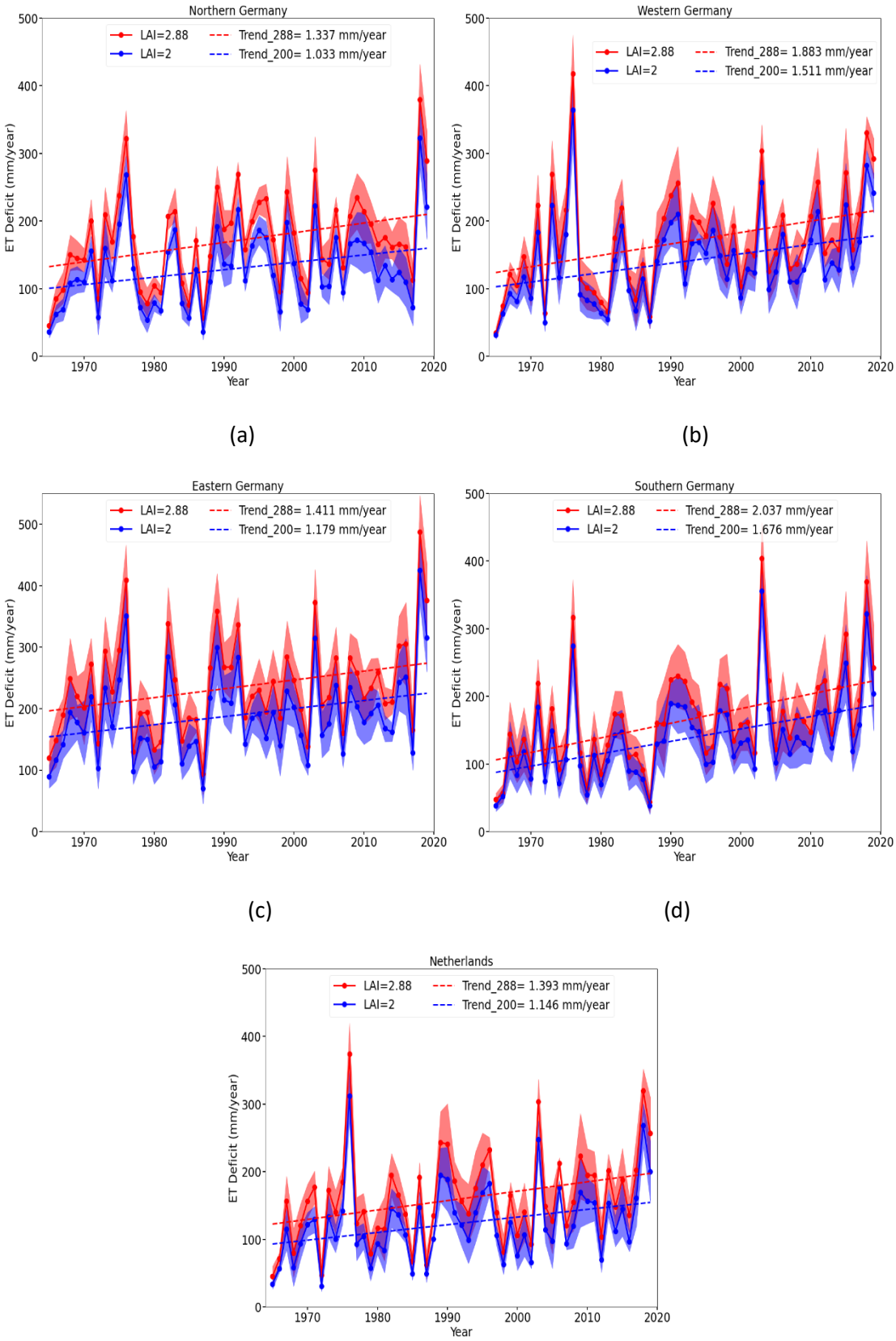


Figure S4. ET deficit for HYDRUS-1D simulations for LAI=2.88 (red) and LAI=2.0 (blue) for (a) North, (b) West, (c) East and (d) South of Germany and (e) the Netherlands. Shaded areas

indicate the 95% confidence interval estimated from (the limited) number of sites in each domain.