

Supplementary Material

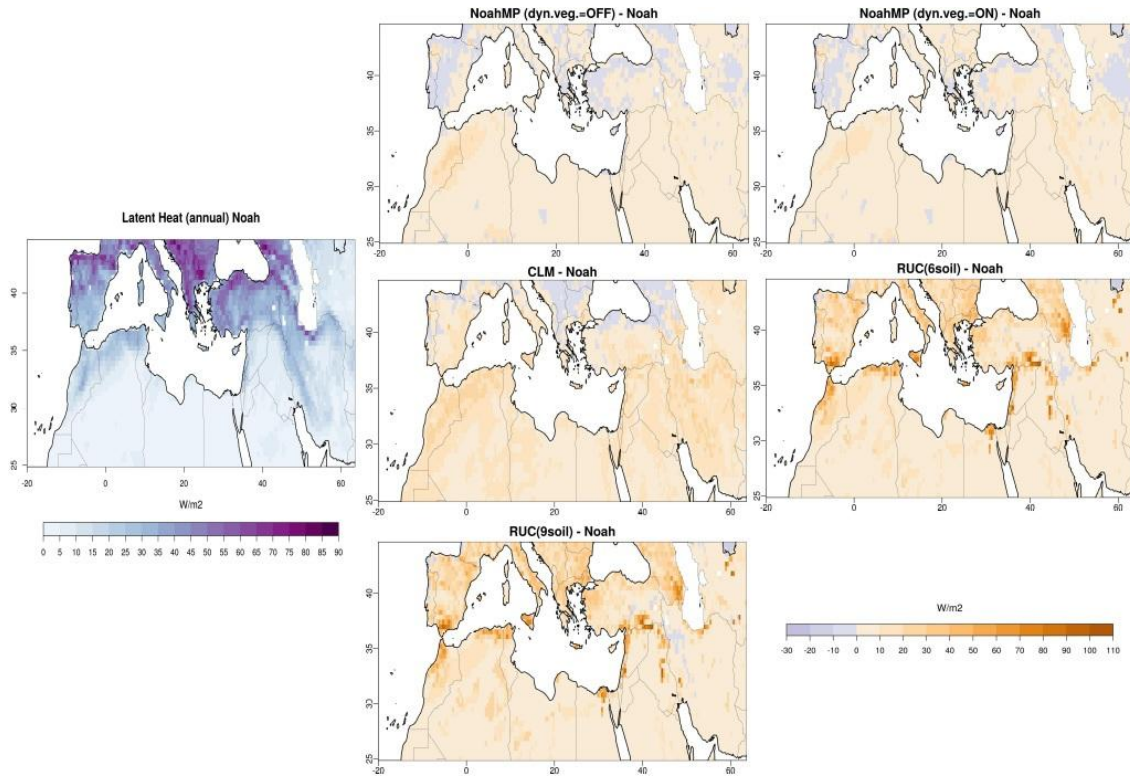


Figure S1. Annual latent heat flux (LH) averaged for Dec. 2000 – Nov. 2010 by Noah (on the right-hand side) and the differences of LH by NoahMP dyn. Veg.= OFF & ON, CLM and RUC 6 and 9 soil layers from Noah.

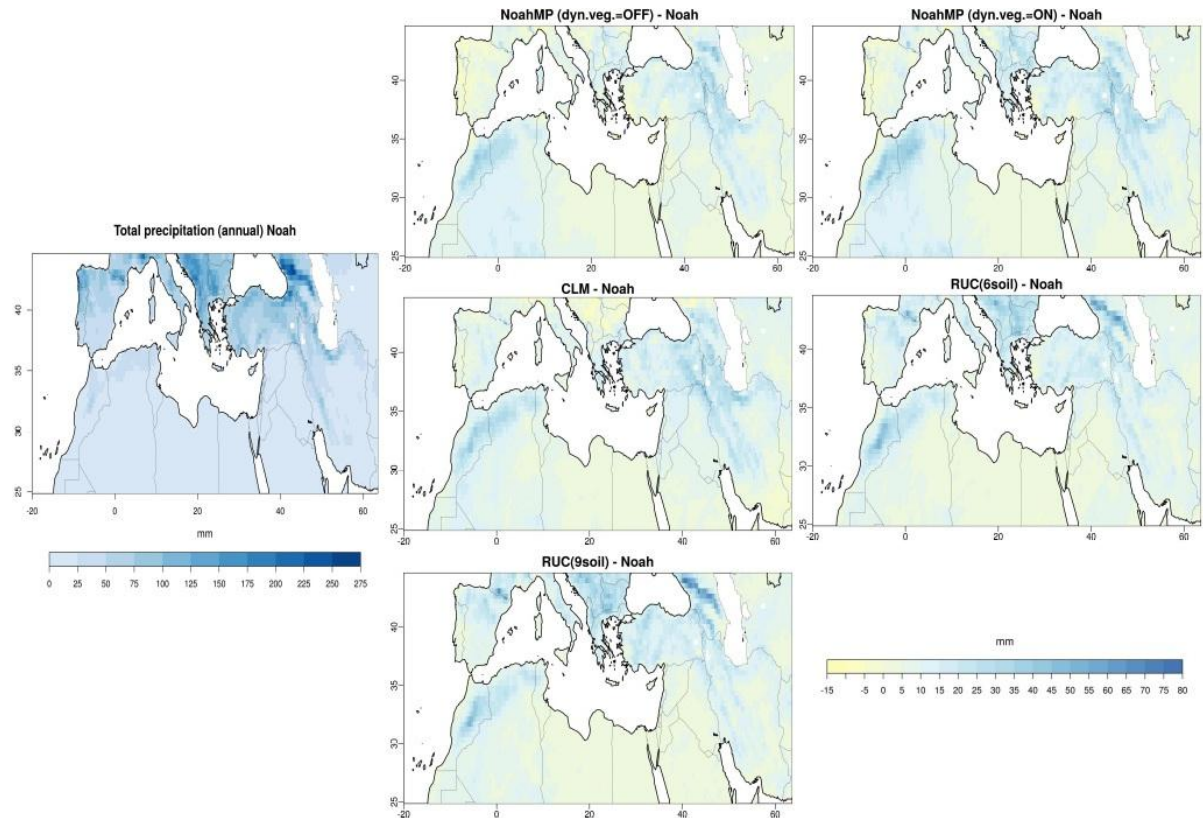


Figure S2. Annual total precipitation (prcp) averaged for Dec. 2000 – Nov. 2010 by Noah (on the right-hand side) and the differences of prcp by NoahMP dyn. Veg.= OFF & ON, CLM and RUC 6 and 9 soil layers from Noah.

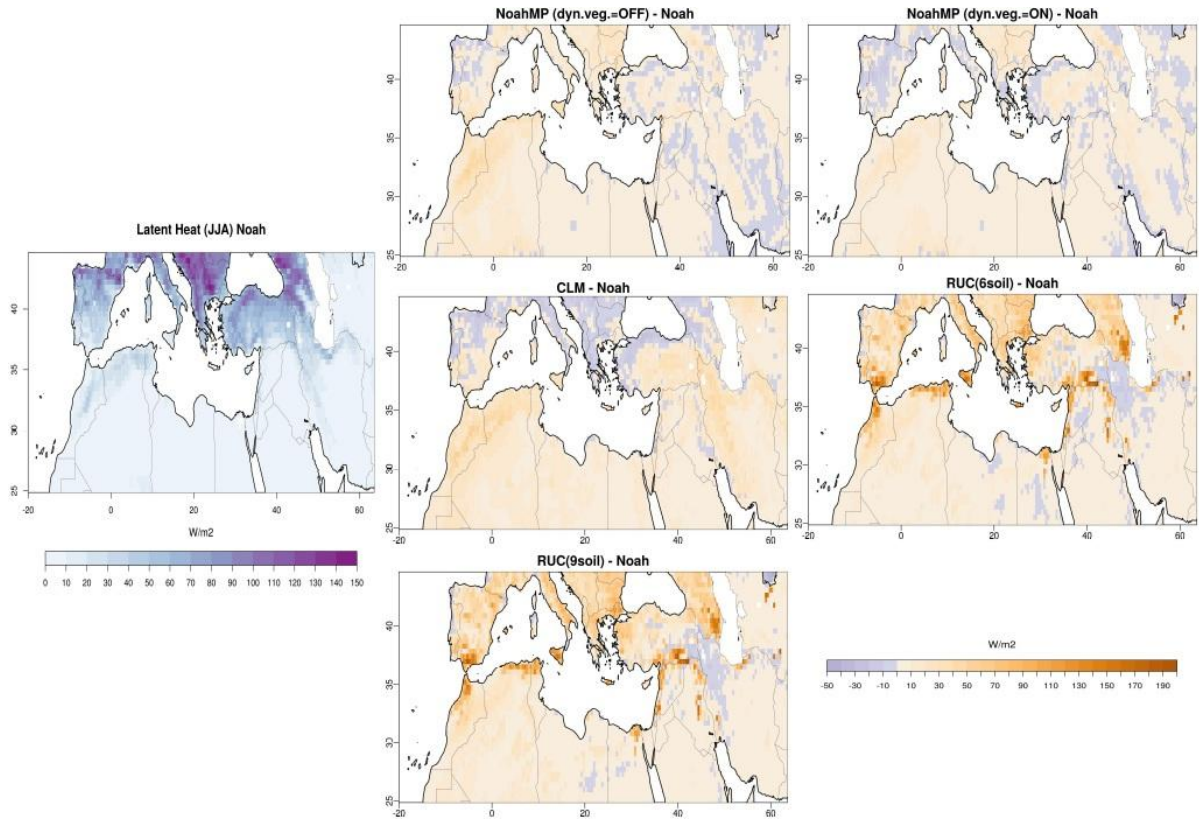


Figure S3. Latent heat flux (LH) for summer period (JJA) averaged for 2000-2010 by Noah (on the right-hand side) and the differences of LH by NoahMP dyn. Veg. = OFF & ON, CLM and RUC 6 and 9 soil layers from Noah.

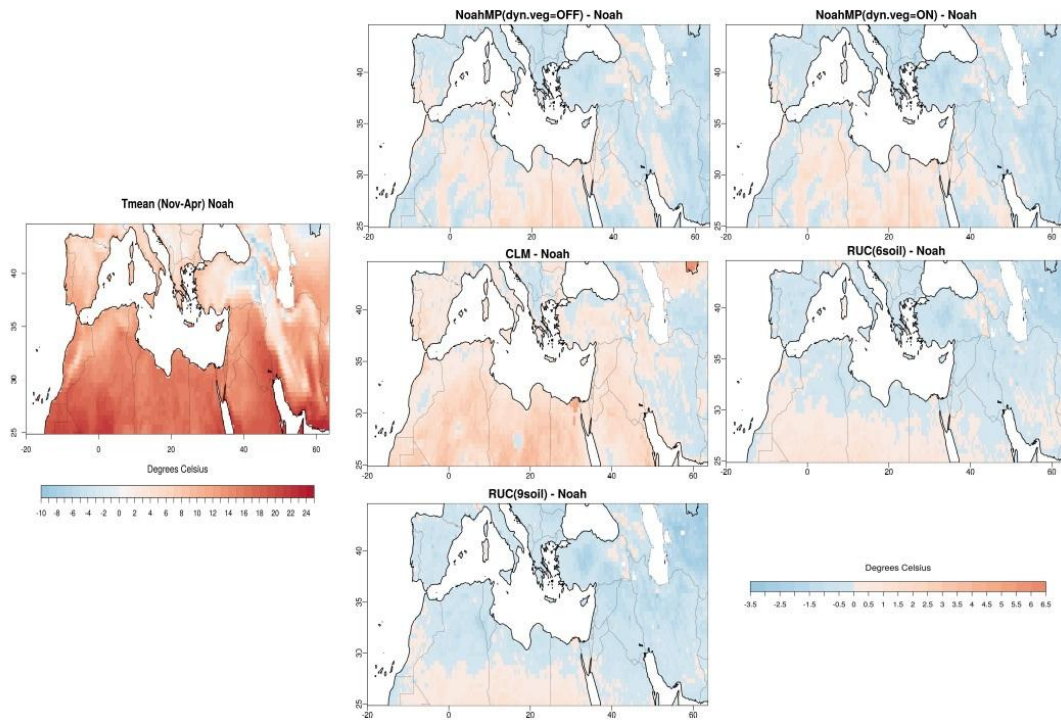


Figure S4. Mean Temperature for the growing period of 1st November - 30th April averaged for 2000-2010 by Noah (on the right-hand side) and the differences of Tmean by NoahMP dyn. Veg. = OFF & ON, CLM and RUC 6 and 9 soil layers from Noah.