

Evident decrease in future European soil moisture in the Kiel Climate Model grand ensemble

Médéric St-Pierre¹, Mojib Latif^{1,2}, Joakim Kjellsson¹, Wonsun Park^{3, 4}, Leonard Borchert⁵

¹GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel, Germany

²Christian-Albrechts-University of Kiel, Faculty of Mathematics and Natural Sciences, Kiel, Germany

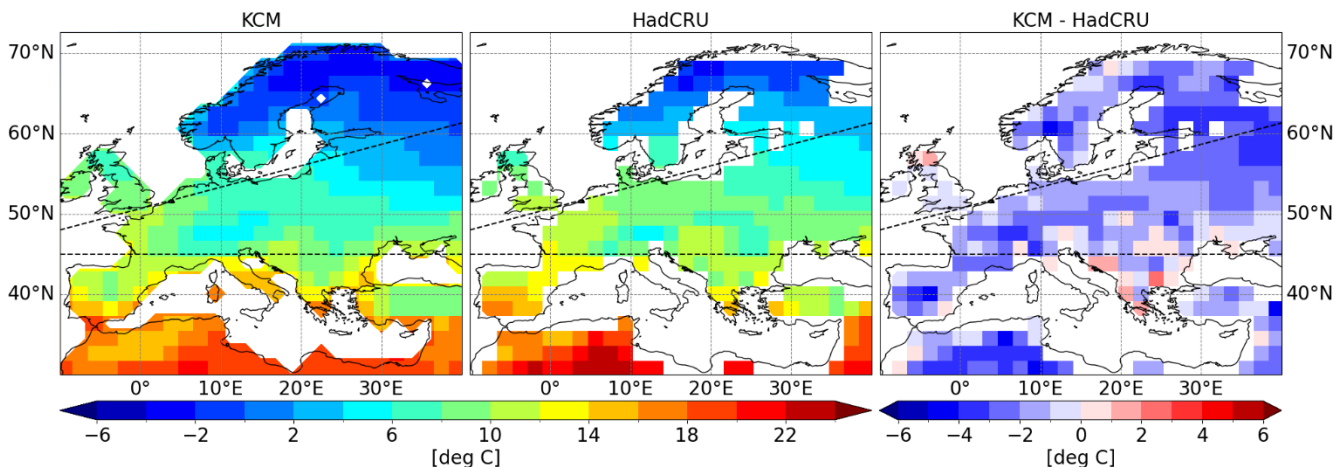
³Center for Climate Physics, Institute for Basic Science, Busan, South Korea

⁴Department of Climate System, Pusan National University, Busan, South Korea

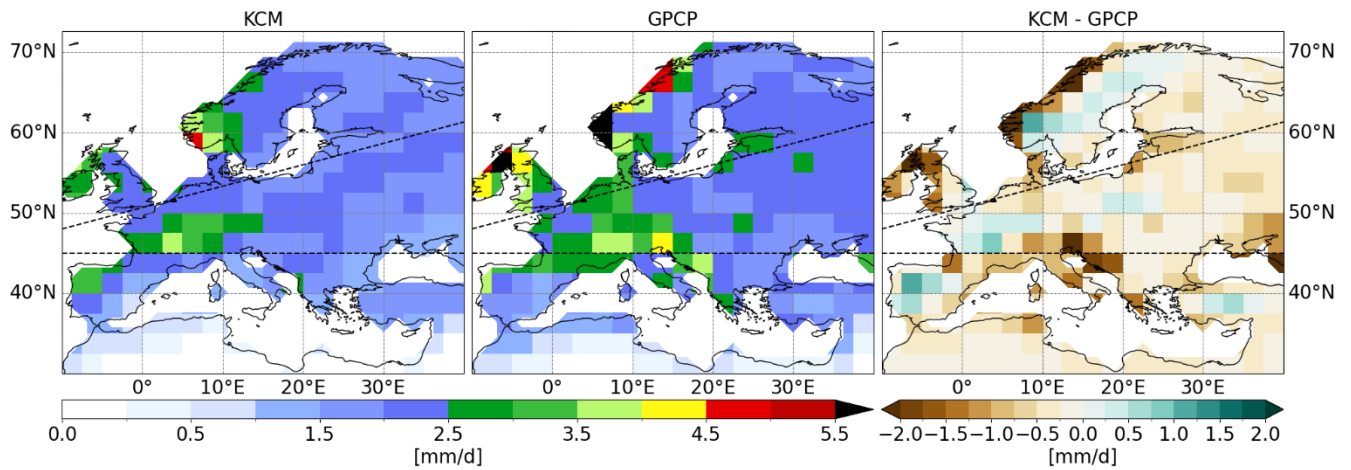
⁵Center for Earth System Research and Sustainability, Universität Hamburg, Hamburg, Germany

Correspondence to: Médéric St-Pierre (mstpierre@geomar.de)

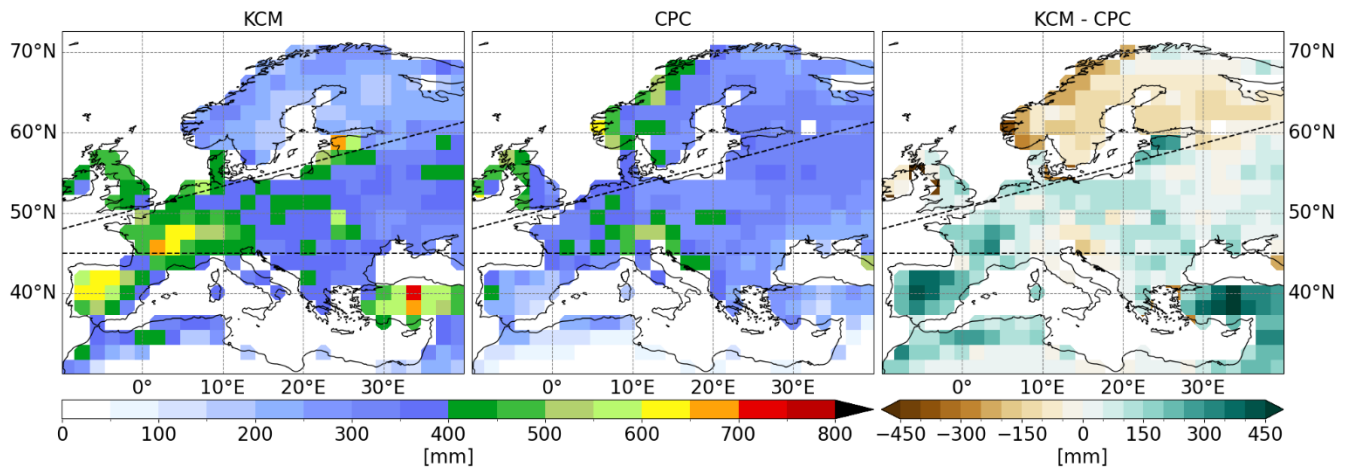
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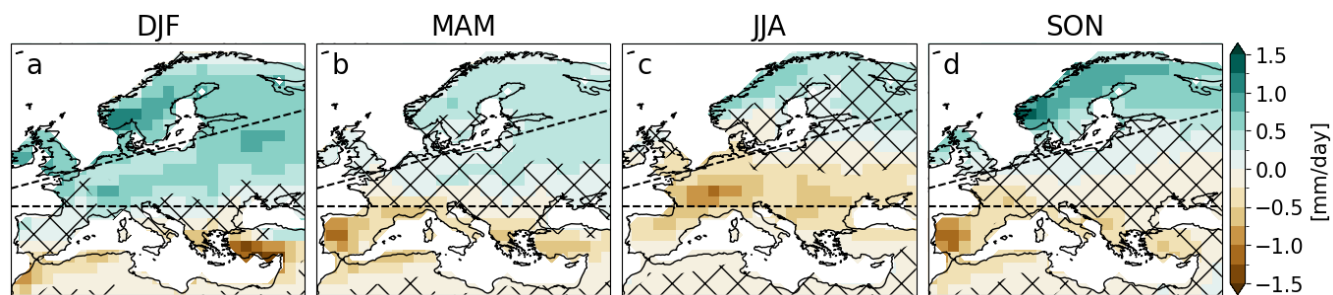
Supp. Fig. 1 Yearly average 2-meter temperature from (a) the reference period in the KCM (year 1-30), (b) the HadCRUT4 data set (year 1981-2010) and (c) bias (KCM – HadCRUT4). Units are in degree Celsius



Supp. Fig. 2 Yearly average precipitation from (a) the reference period in the KCM (year 1-30), (b) the GPCP data set (year 1981-2010) and (c) bias (KCM – GPCP). Units are in mm/day



Supp. Fig. 3 Yearly average soil moisture from (a) the reference period in the KCM (year 1-30), (b) the CPC data set (year 1981-2010) and (c) bias (KCM – CPC). Units are in mm



Supp. Fig. 4 (a-d) Future precipitation changes (ensemble mean) with respect to a 4xCO₂ climate. Hatches show where the signal-to-noise ratio is less than 2, displaying insignificant results. The dashed black line delimits the border of the European IPCC climate reference regions