Supplement of Atmos. Chem. Phys., 18, 12269–12288, 2018
https://doi.org/10.5194/acp-18-12269-2018-supplement

Atmospheric Chemistry and Physics
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EGU

Supplement of

A multi-model comparison of meteorological drivers of surface ozone over Europe

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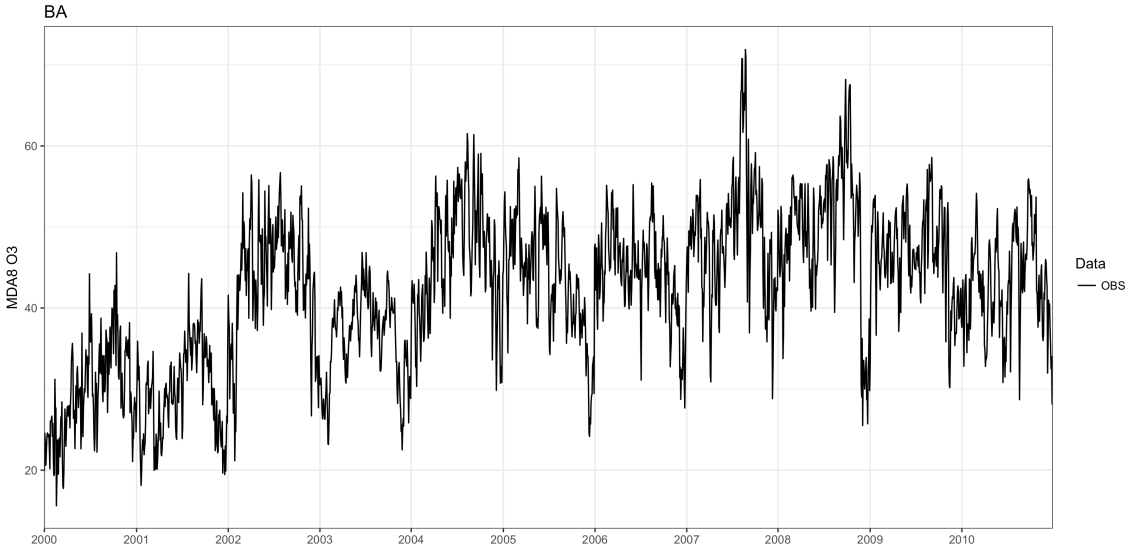

Figure S1. Time series of daily values of MDA8 O_3 over the whole period of study (2000-2010) spatially averaged over the Balkans region.

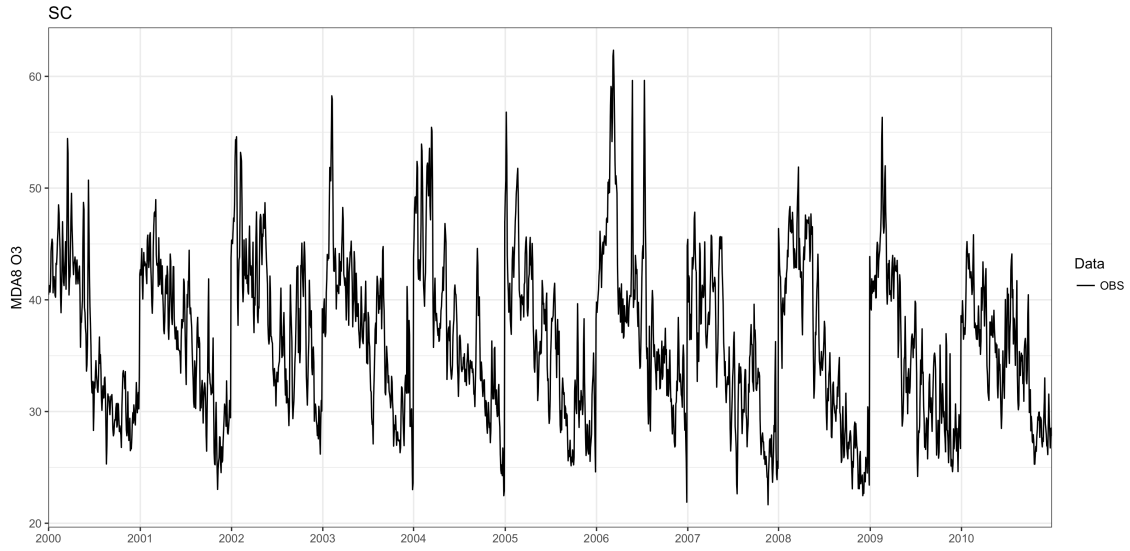

Figure S2. Time series of daily values of MDA8 O_3 over the whole period of study (2000-2010) spatially averaged over the Scandinavian region.

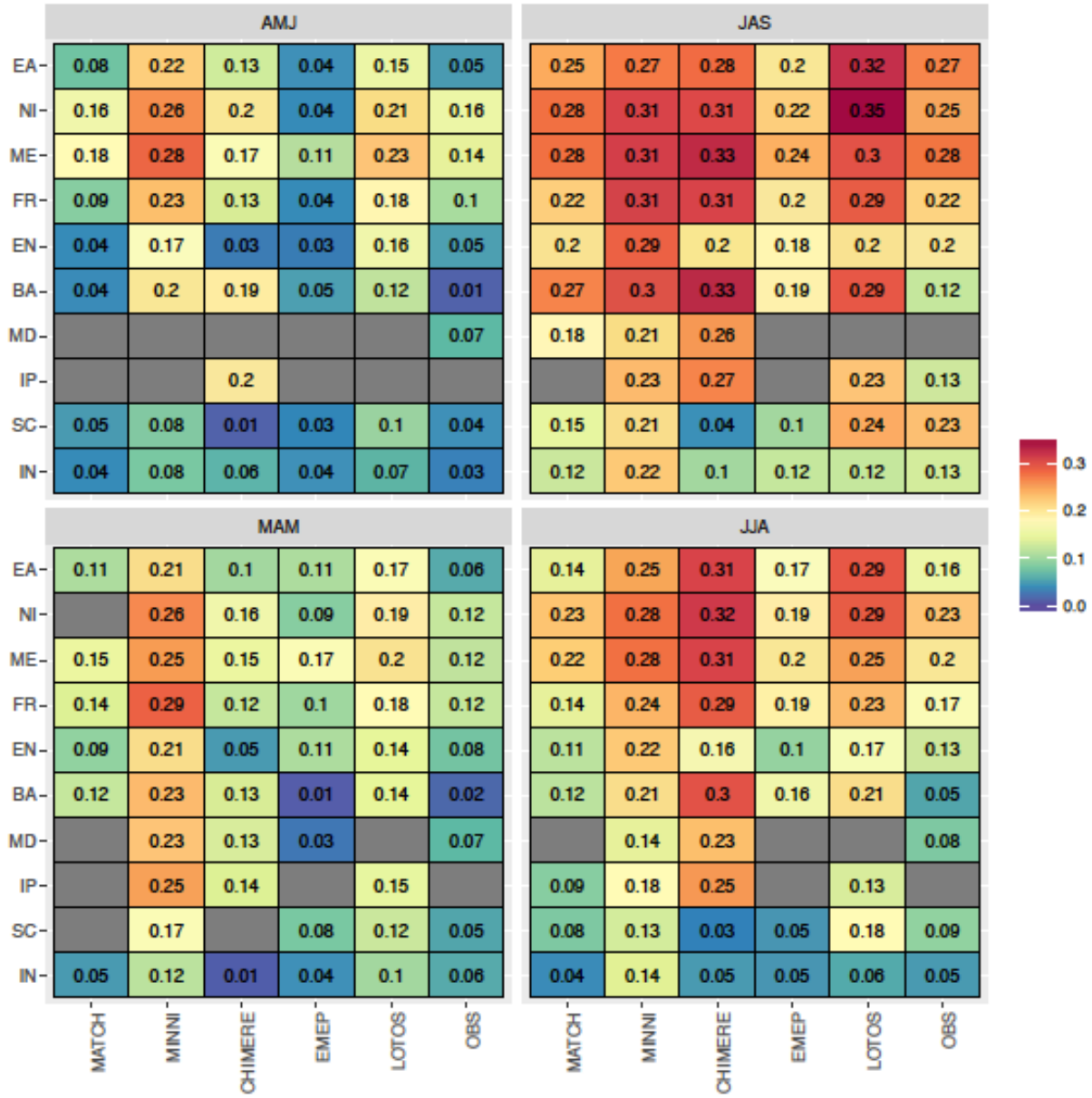

Figure S3. Values of relative importance (contribution to the total explained variance) of maximum temperature in the seasons AMJ, JAS and MAM and JJA.

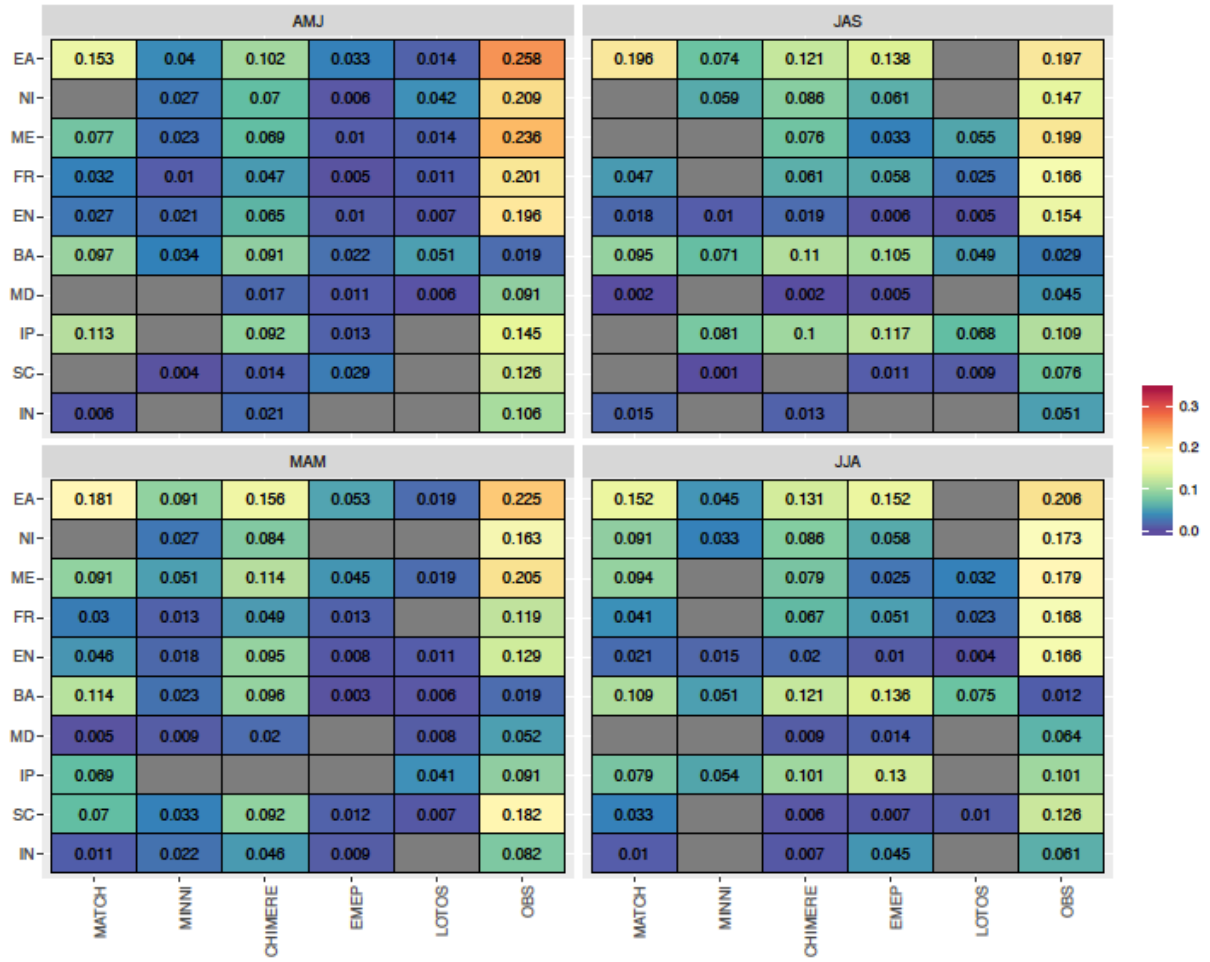

Figure S4. Values of relative importance (contribution to the total explained variance) of relative humidity in the seasons AMJ, JAS and MAM and JJA.

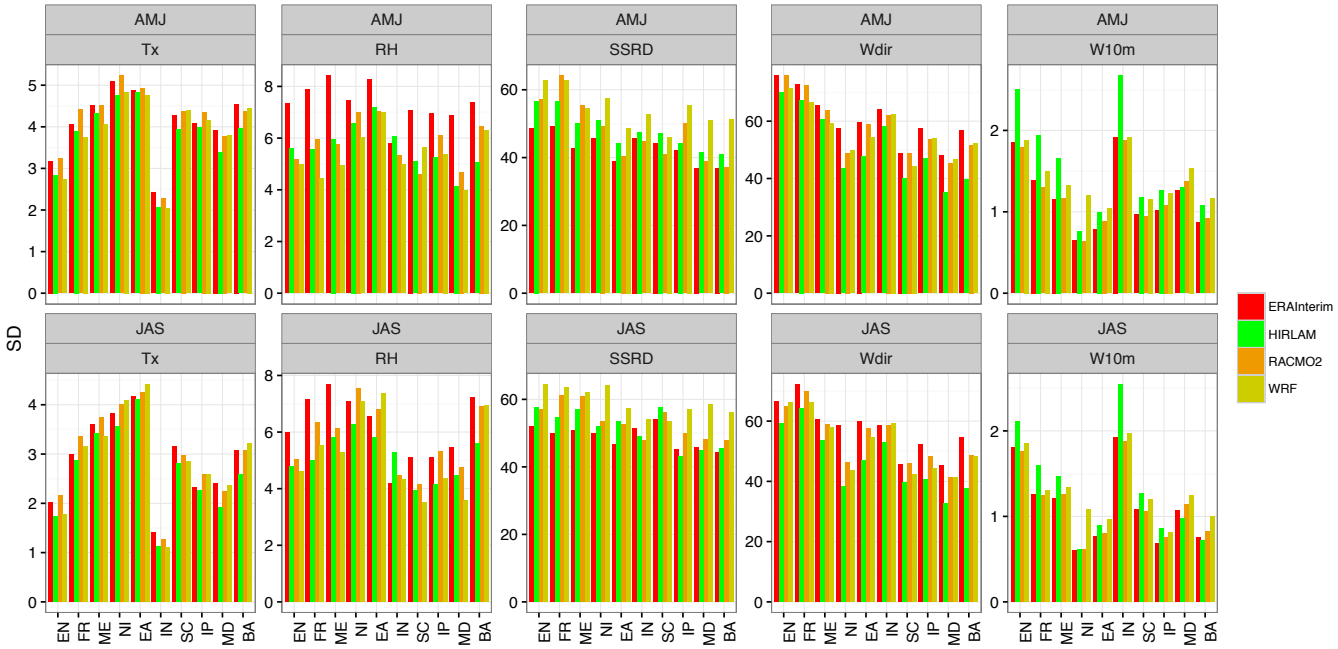

Figure S5. Standard deviations of the meteorological predictors: Maximum temperature (Tx), relative humidity (RH), solar radiation (SSRD), wind direction (Wdir) and wind speed-10m (W10m). Standard deviations are computed for each season, AMJ (top) and JAS (bottom), and for each region: England (EN), France (FR), Mid-EU (ME), NI (North Italy), EA (East-EU), IN (Inflow), SC (Scandinavia), IP (Iberian Peninsula), MD (Mediterranean) and Balkans (BA).

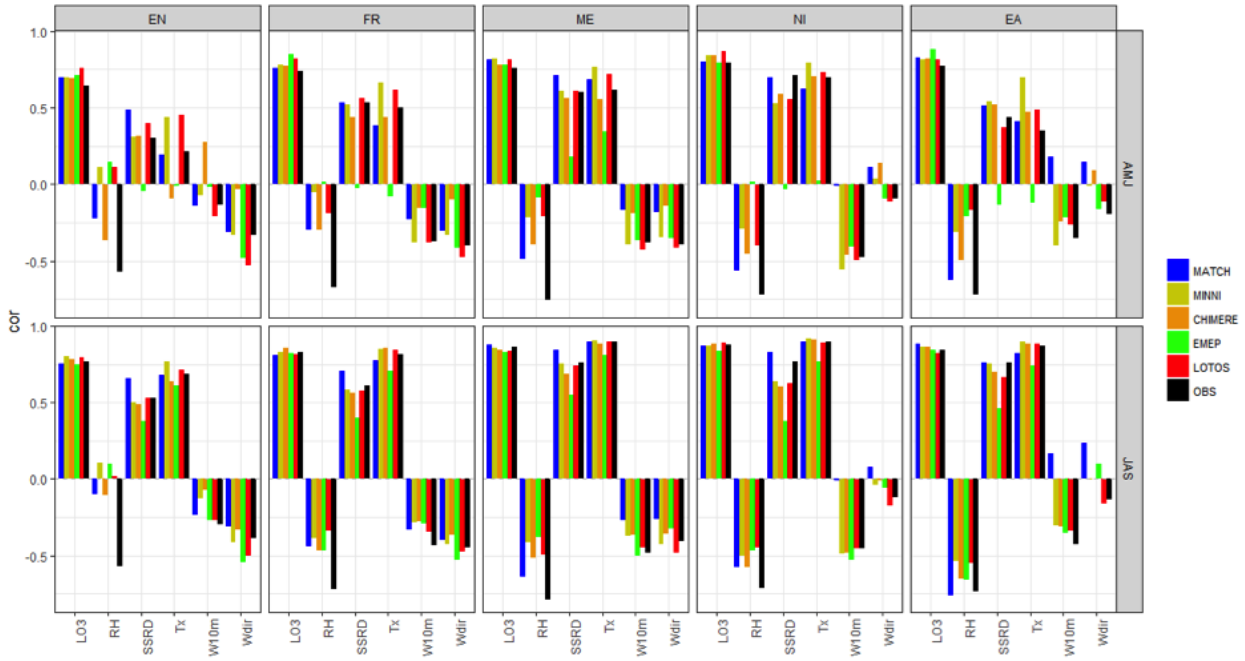

Figure S6. Correlation coefficients between MDA8 O3 and each potential predictor used in the MLR. Correlations are computed for each season, AMJ (top) and JAS (bottom), and for internal regions: England (EN), France (FR), Mid-EU (ME), NI (North Italy), EA (East-EU).

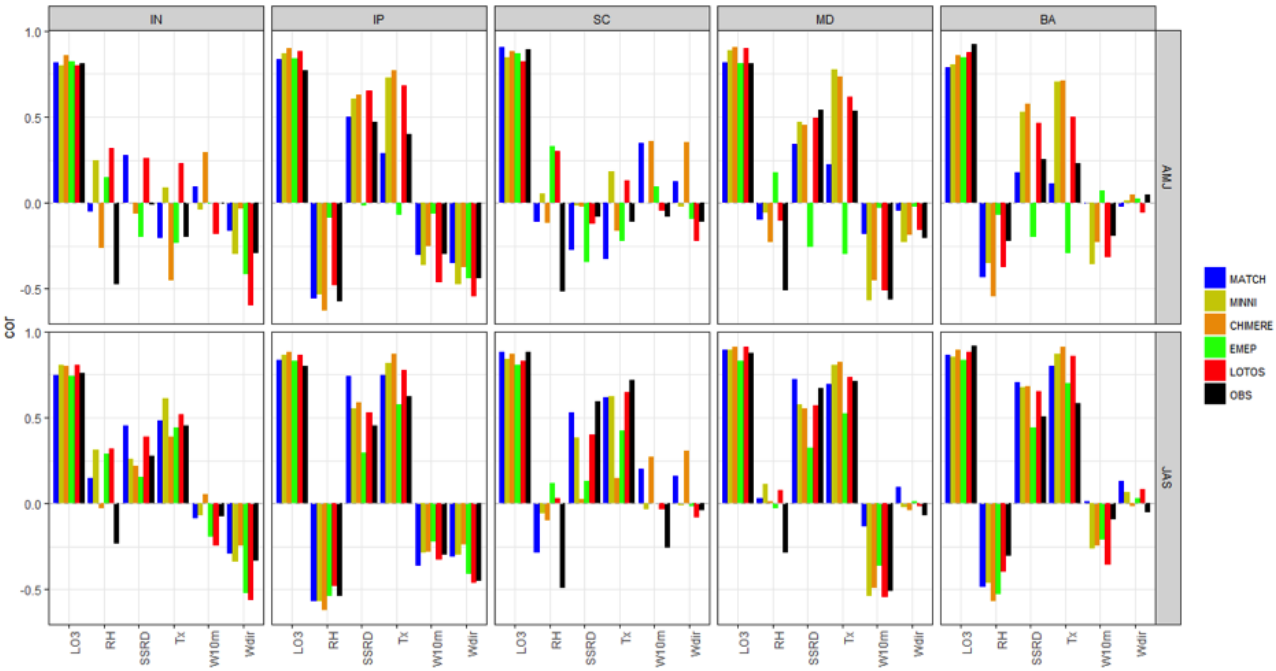

Figure S7. Correlation coefficients between MDA8 O3 and each potential predictor used in the MLR. Correlations are computed for each season, AMJ (top) and JAS (bottom), and for external regions: IN (Inflow), SC (Scandinavia), IP (Iberian Peninsula), MD (Mediterranean) and Balkans (BA).

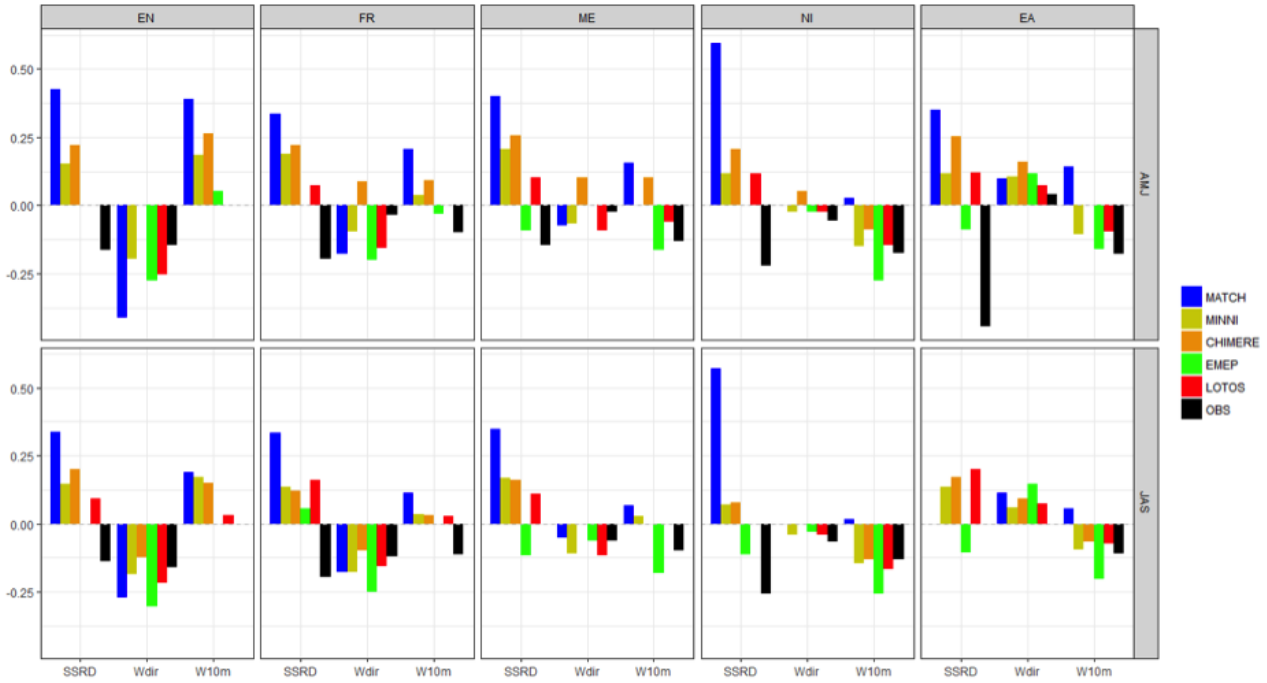

Figure S8. Standardised coefficients values of the rest of the meteorological predictors (SSRD, Wdir and W10m) for each CTM-based and observation-based MLR in AMJ (top) and JAS (bottom) and for the internal regions: England (EN), France (FR), Mid-Europe (ME), North Italy (NI) and East-Europe (EA).

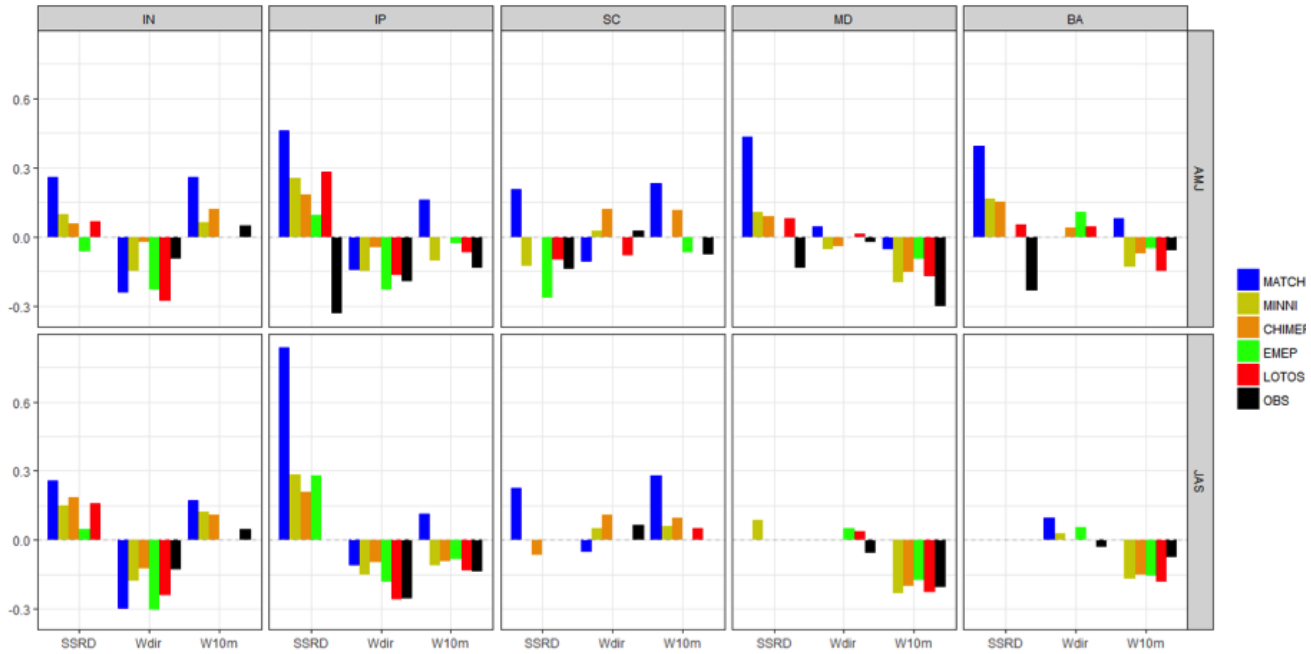

Figure S9. Standardised coefficients values of the rest of the meteorological predictors (SSRD, Wdir and W10m) for each CTM-based and observation-based MLR in AMJ (top) and JAS (bottom) and for the external regions: Inflow (IN), Iberian Peninsula (IP), Scandinavia (SC), Mediterranean (MD) and Balkans (BA).