Supplementary material for “ClimEx project: a 50-member ensemble of climate change projections at 12-km resolution over Europe and northeastern North America with the Canadian Regional Climate Model (CRCM5)”

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Figure S1: (left column) Seasonal mean surface-air temperature during the 1980-2012 period as simulated by the CRCM5 driven by ERA-Interim over the EU domain; (right column) same for CRCM5 driven by the first member of CanESM2.
Figure S2: (left column) Seasonal mean precipitation during the 1980-2012 period as simulated by the CRCM5 driven by ERA-Interim over the EU domain; (right column) same for the CRCM5 driven by the first member of CanESM2.
Figure S3: (left column) Seasonal mean surface-air temperature during the 1980-2012 period as simulated by the CRCM5 driven by ERA-Interim over the NNA domain; (right column) same for the CRCM5 driven by the first member of CanESM2.
Figure S4: (left column) Seasonal mean precipitation during the 1980-2012 period as simulated by the CRCM5 driven by ERA-Interim over the NNA domain; (right column) same for the CRCM5 driven by the first member of CanESM2.
Figure S5: The CRCM5 50-member ensemble mean climate-change signal for surface-air temperature computed as the difference between the 2020-2039 and 2000-2019 monthly climate means for the EU domain. Hatched region identify regions where the signal is not statistically significant at the 99% confidence level (Student’s t-test with unequal variances).
Figure S6: Same as Figure S5 for precipitation during 2020-2039 over the EU domain (50 members).
Figure S7: Same as Figure S5 for surface-air temperature during 2020-2039 over the NNA domain (50 members).
Figure S8: Same as Figure S5 for precipitation during 2020-2039 over the NNA domain (50 members).
Figure S9: The CRCM5 five-member ensemble mean climate-change signal for surface-air temperature computed as the difference between the 2020-2039 and 2000-2019 monthly climate means for the EU domain. Hatched regions identify where the signal is not statistically significant at the 99% confidence level (Student’s t-test with unequal variances).
Figure S10: Same as Figure S9 for surface-air temperature during 2080-2099 over the EU domain (five members).
Figure S11: Same as Figure S9 for precipitation during 2020-2039 over the EU domain (five members).
Figure S12: Same as Figure S9 for precipitation during 2080-2099 over the EU domain (five members).
Figure S13: Same as Figure S9 for surface-air temperature during 2020-2039 over the NNA domain (five members).
Figure S14: Same as Figure S9 for surface-air temperature during 2080-2099 over the NNA domain (five members).
Figure S15: Same as Figure S9 for precipitation during 2020-2039 over the NNA domain (five members).
Figure S16: Same as Figure S9 for precipitation during 2080-2099 over the NNA domain (five members).
Figure S17: Relative change in interannual variability for the monthly mean surface-air temperature during 2080-2099 relative to 2000-2019 over the EU domain. Hatched regions identify where the change in variability is not statistically significant at the 99% confidence level (F-test) (five members).
Figure S18: Same as Figure S17 over the NNA domain (five members).