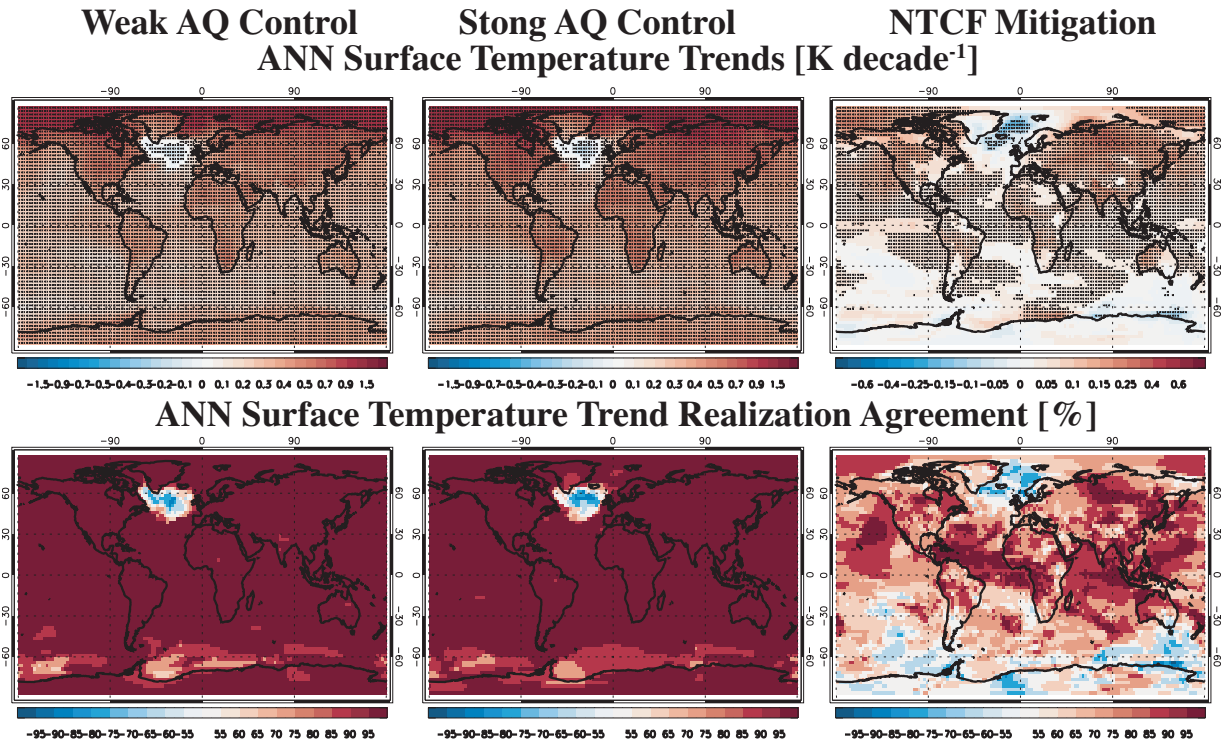


Supplementary Figures

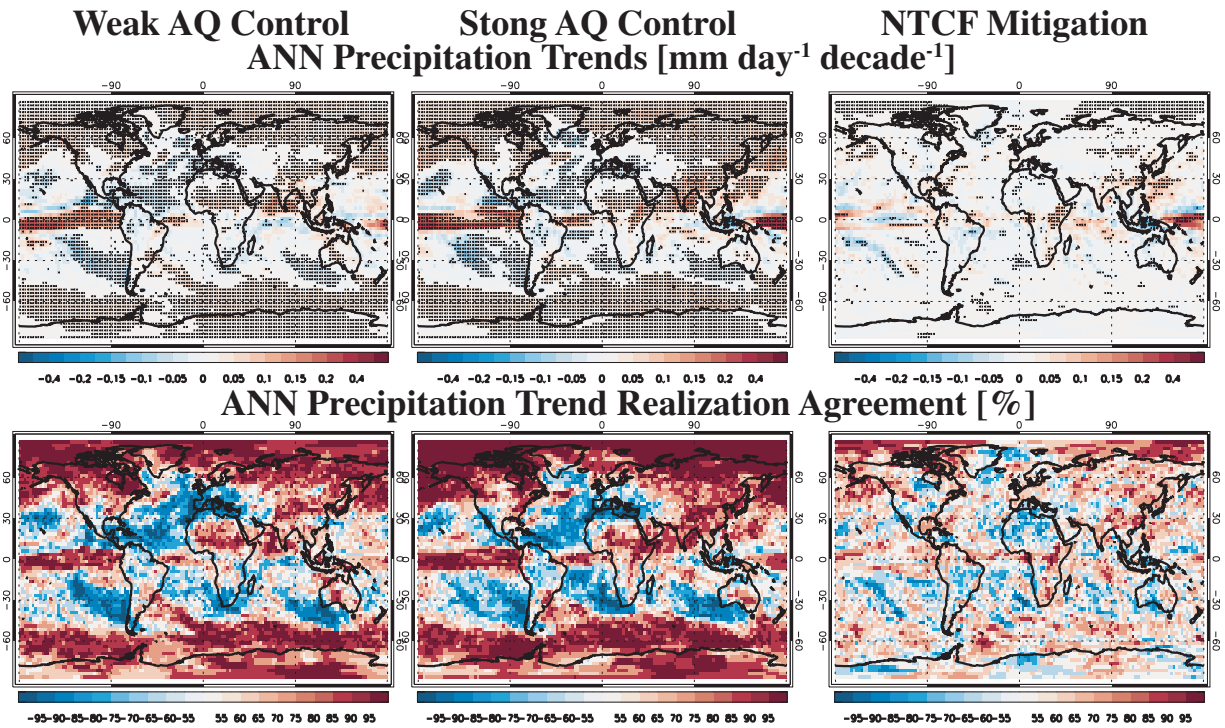
“Climate and air quality impacts due to mitigation of non-methane near-term climate forcers” by Allen et al.

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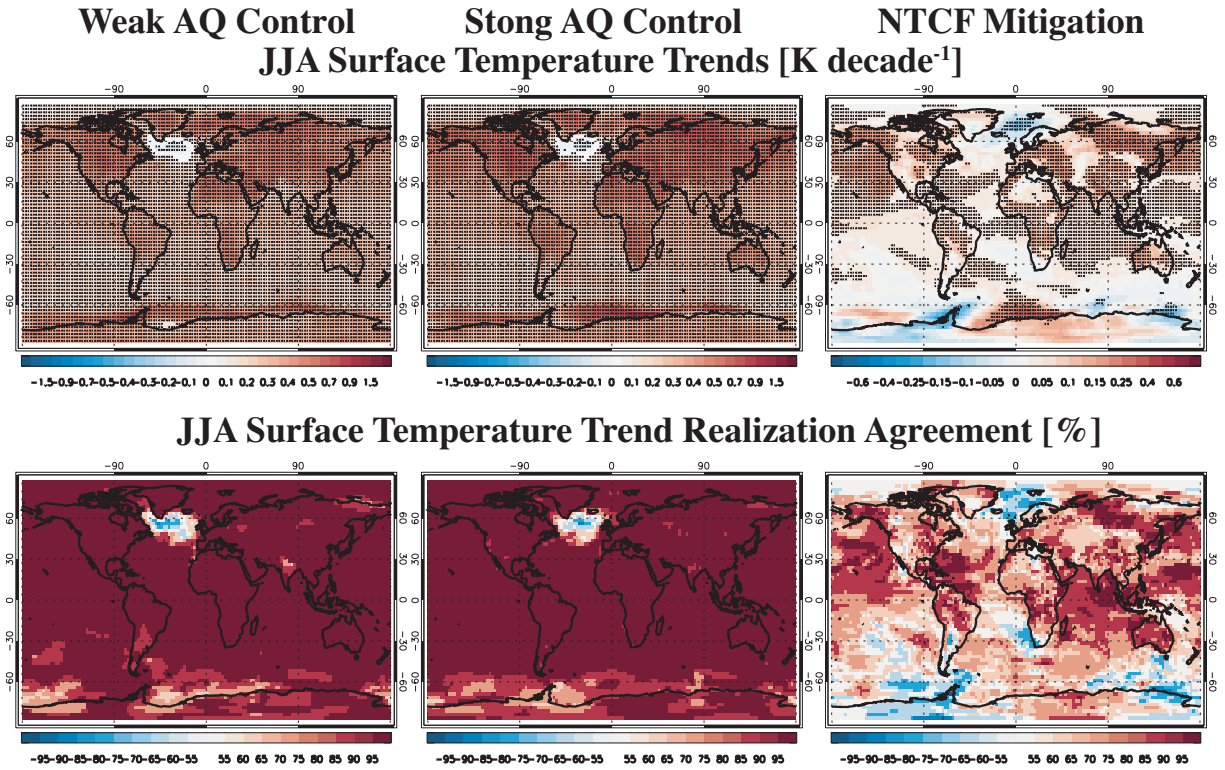
1. Figures S1 to S6



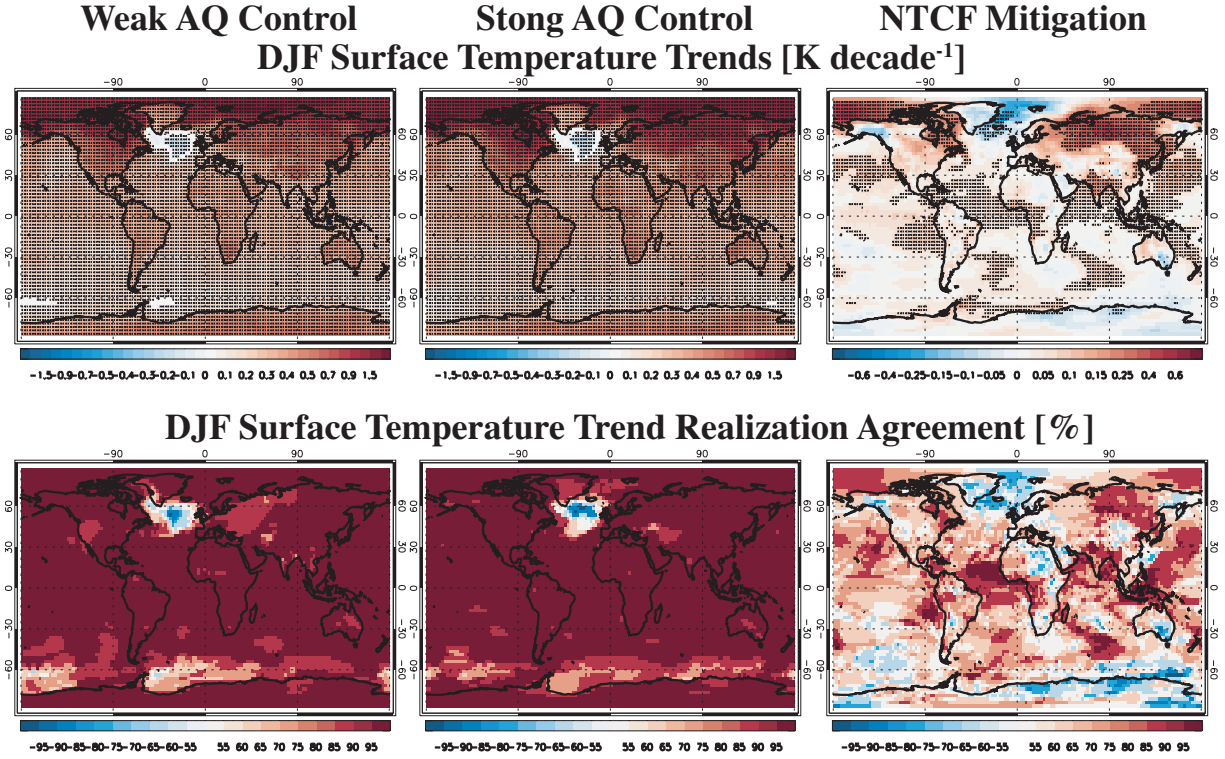
SUPPLEMENTARY FIGURE 1 **2015-2055 annual mean surface temperature trends and model trend realization agreement.** Surface temperature (top panels) trends [K decade⁻¹] and (bottom panels) model trend realization agreement [%] for (left panels) weak air quality control (SSP3-7.0); (middle panels) strong air quality control (SSP3-7.0-lowNTCF) and (right panels) NTCF mitigation (SSP3-7.0-lowNTCF-SSP3-7.0). Stippling denotes trend significance at the 95% confidence level based on a standard *t*-test. Trend realization agreement represents the percentage of models that agree on the sign of the trend.



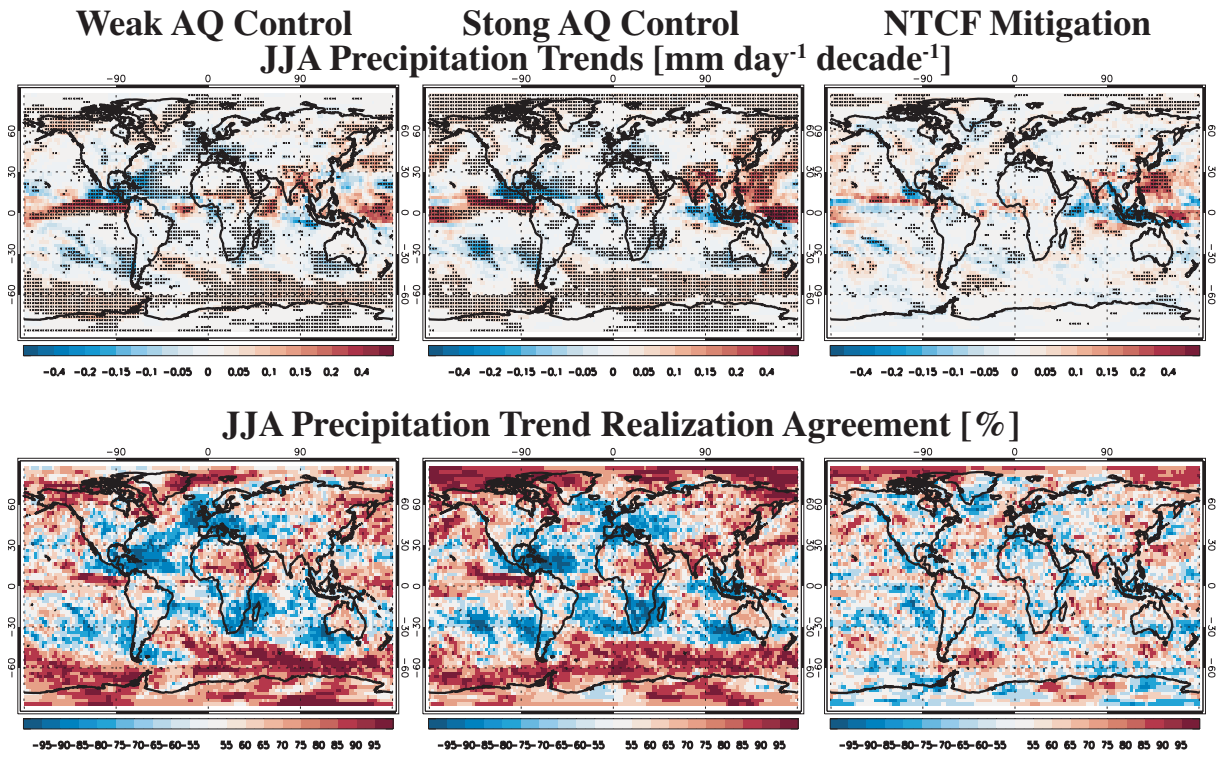
SUPPLEMENTARY FIGURE 2 **2015-2055 annual mean precipitation trends and model trend realization agreement.** Precipitation (top panels) trends [mm day⁻¹ decade⁻¹] and (bottom panels) model trend realization agreement [%] for (left panels) weak air quality control (SSP3-7.0); (middle panels) strong air quality control (SSP3-7.0-lowNTCF) and (right panels) NTCF mitigation (SSP3-7.0-lowNTCF-SSP3-7.0). Stippling denotes trend significance at the 95% confidence level based on a standard *t*-test. Trend realization agreement represents the percentage of models that agree on the sign of the trend.



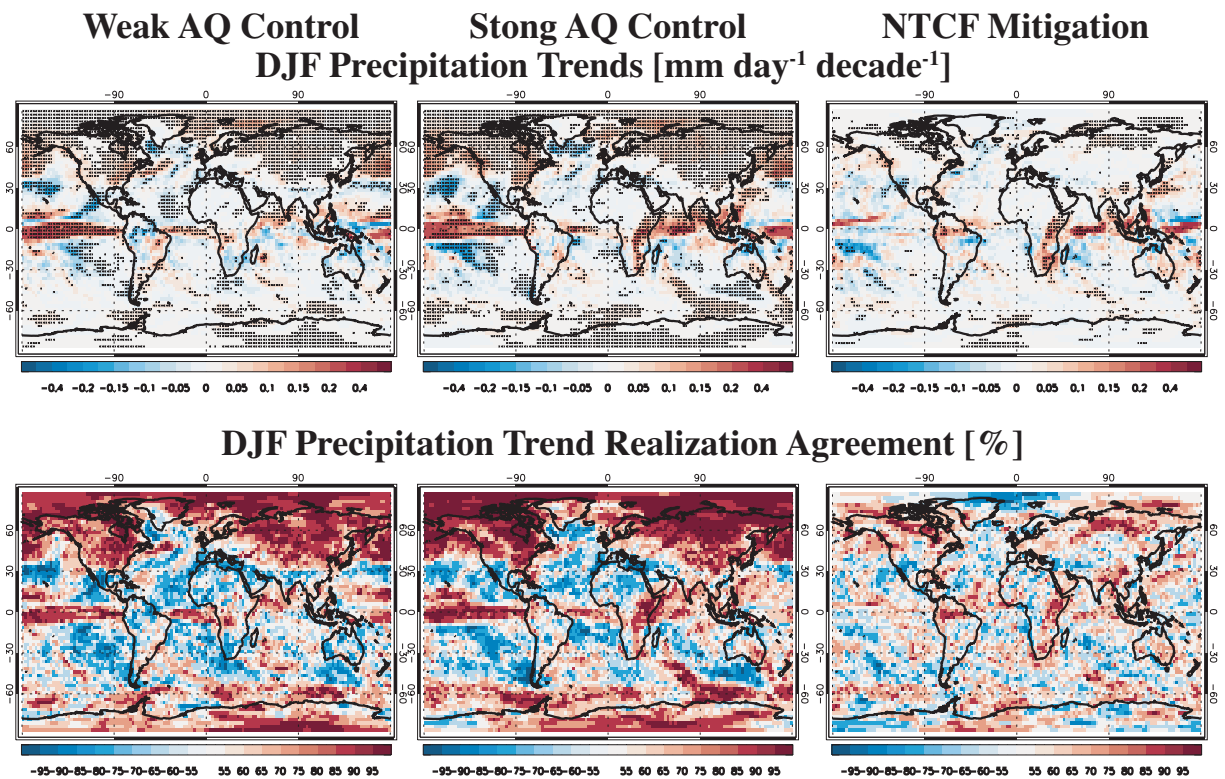
SUPPLEMENTARY FIGURE 3 2015-2055 June-July-August (JJA) mean surface temperature trends and model trend realization agreement. Surface temperature (top panels) trends [K decade⁻¹] and (bottom panels) model trend realization agreement [%] for (left panels) weak air quality control (SSP3-7.0); (middle panels) strong air quality control (SSP3-7.0-lowNTCF) and (right panels) NTCF mitigation (SSP3-7.0-lowNTCF-SSP3-7.0). Stippling denotes trend significance at the 95% confidence level based on a standard *t*-test. Trend realization agreement represents the percentage of models that agree on the sign of the trend.



SUPPLEMENTARY FIGURE 4 2015-2055 December-January-February (DJF) mean surface temperature trends and model trend realization agreement. Surface temperature (top panels) trends [K decade⁻¹] and (bottom panels) model trend realization agreement [%] for (left panels) weak air quality control (SSP3-7.0); (middle panels) strong air quality control (SSP3-7.0-lowNTCF) and (right panels) NTCF mitigation (SSP3-7.0-lowNTCF-SSP3-7.0). Stippling denotes trend significance at the 95% confidence level based on a standard *t*-test. Trend realization agreement represents the percentage of models that agree on the sign of the trend.



SUPPLEMENTARY FIGURE 5 2015-2055 June-July-August (JJA) mean precipitation trends and model trend realization agreement. Precipitation (top panels) trends [mm day⁻¹ decade⁻¹] and (bottom panels) model trend realization agreement [%] for (left panels) weak air quality control (SSP3-7.0); (middle panels) strong air quality control (SSP3-7.0-lowNTCF) and (right panels) NTCF mitigation (SSP3-7.0-lowNTCF-SSP3-7.0). Stippling denotes trend significance at the 95% confidence level based on a standard *t*-test. Trend realization agreement represents the percentage of models that agree on the sign of the trend.



SUPPLEMENTARY FIGURE 6 2015-2055 December-January-February (DJF) mean precipitation trends and model trend realization agreement. Precipitation (top panels) trends [mm day⁻¹ decade⁻¹] and (bottom panels) model trend realization agreement [%] for (left panels) weak air quality control (SSP3-7.0); (middle panels) strong air quality control (SSP3-7.0-lowNTCF) and (right panels) NTCF mitigation (SSP3-7.0-lowNTCF-SSP3-7.0). Stippling denotes trend significance at the 95% confidence level based on a standard *t*-test. Trend realization agreement represents the percentage of models that agree on the sign of the trend.