Supplement of

Historical and future changes and present-day uncertainties of ozone in China from CMIP6 models

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Figure S1 – The Bias in surface O₃ concentrations simulated by CMIP6 models relative to TAP from 2014 to 2023 under different concentrations of PM₂.₅ components (including BC, NO₃, SO₄, NH₄, OM) in China.

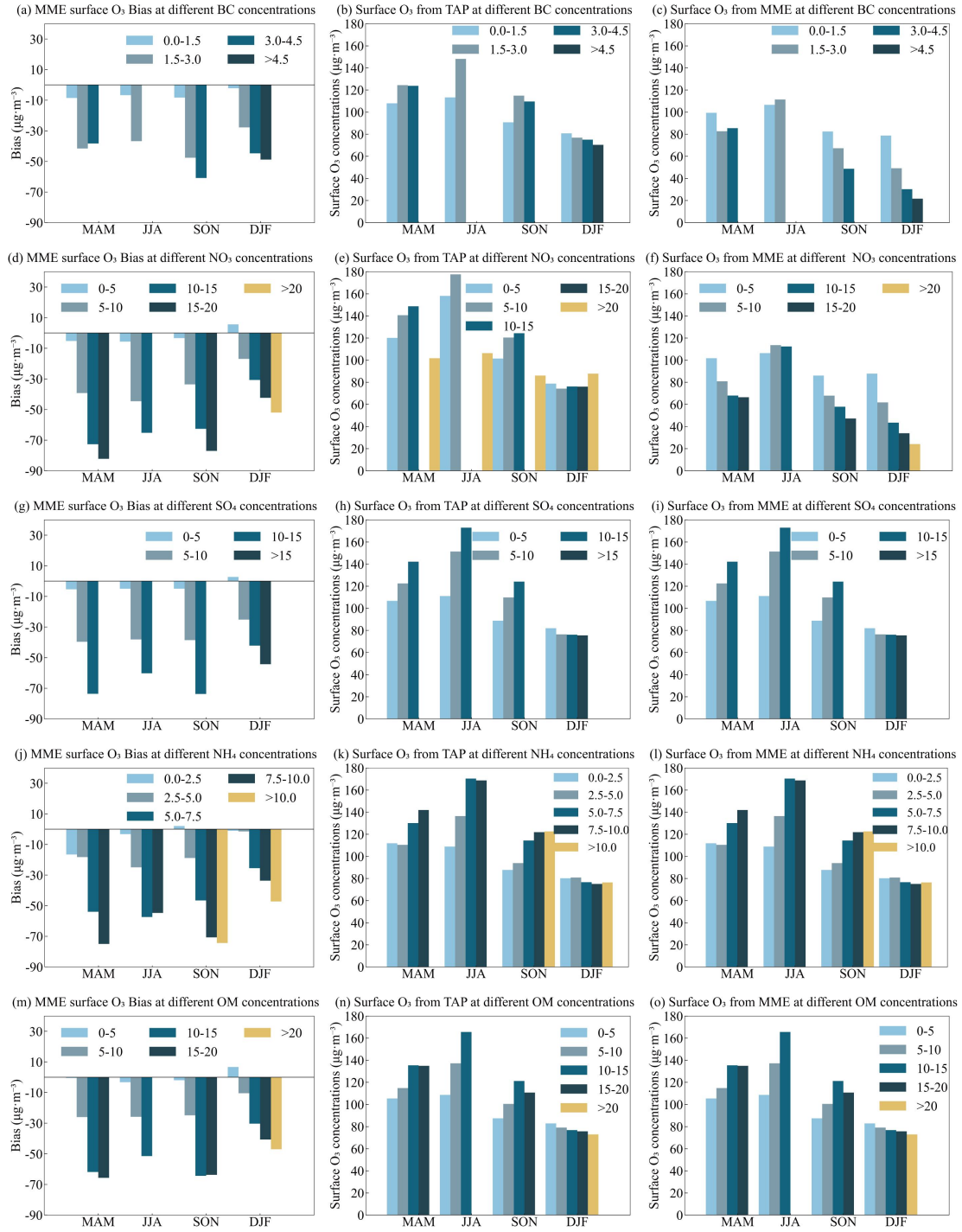**Figure S2 – Changes in the annual mean surface O₃ concentrations for China and sub-regions from 2015–2100, across nine CMIP6 models and MME for the ssp370 scenario. The black dashed line represents the MME of surface O₃ concentrations for 2015–2100, with the value (±1 SD) shown in the top left of each panel.**

Figure S3 – Changes in the annual mean surface NOₓ concentrations for China and sub-regions from 2015–2100, across nine CMIP6 models and MME for the ssp370 scenario. The black dashed line represents the MME of surface NOₓ concentrations for 2014–2023, with the value shown in the top left of each panel.

Figure S4 – Changes in the annual mean surface CH₄ concentrations for China and sub-regions from 2015–2100, across nine CMIP6 models and MME for the ssp370 scenario. The black dashed line represents the MME of surface CH₄ concentrations for 2014–2023, with the value shown in the top left of each panel.
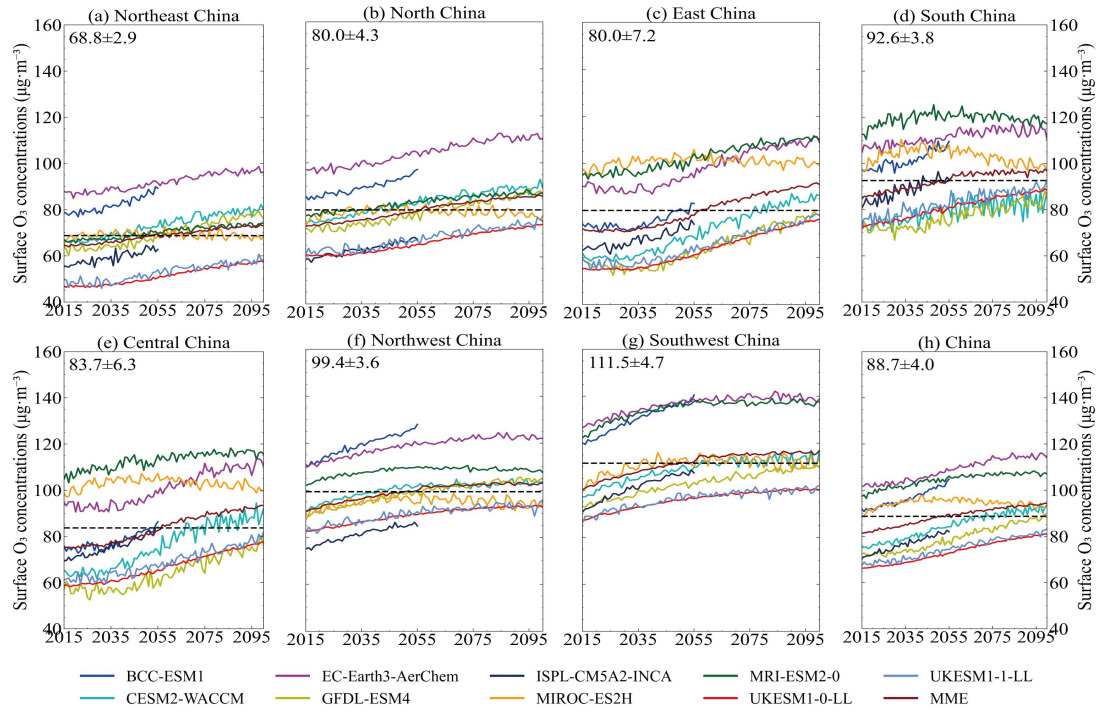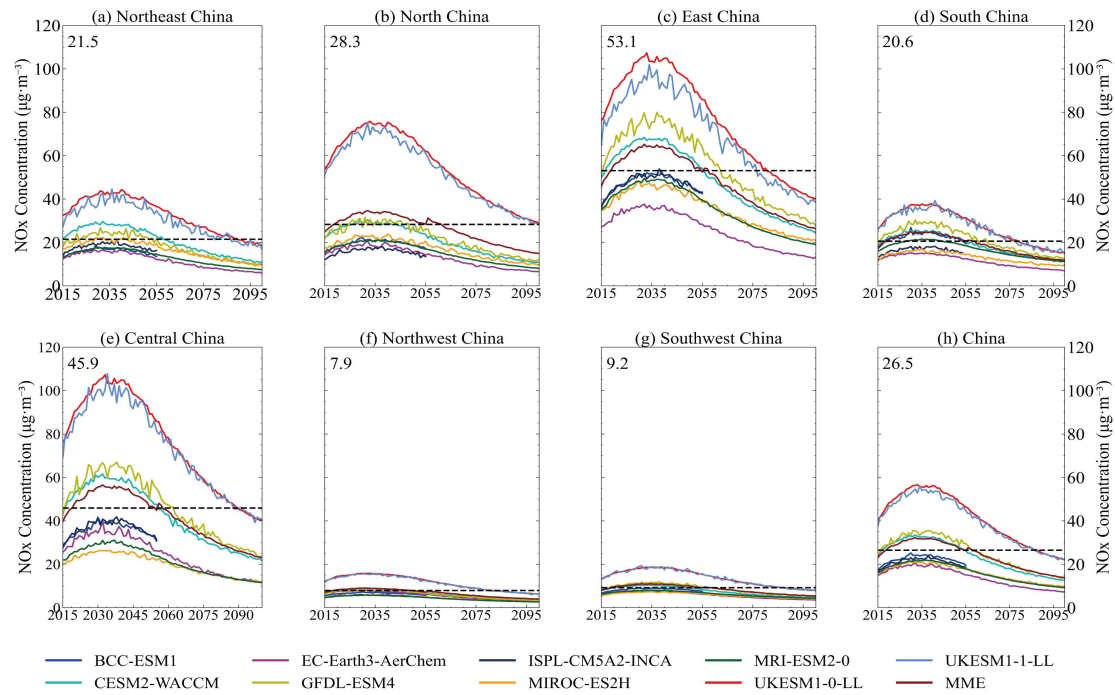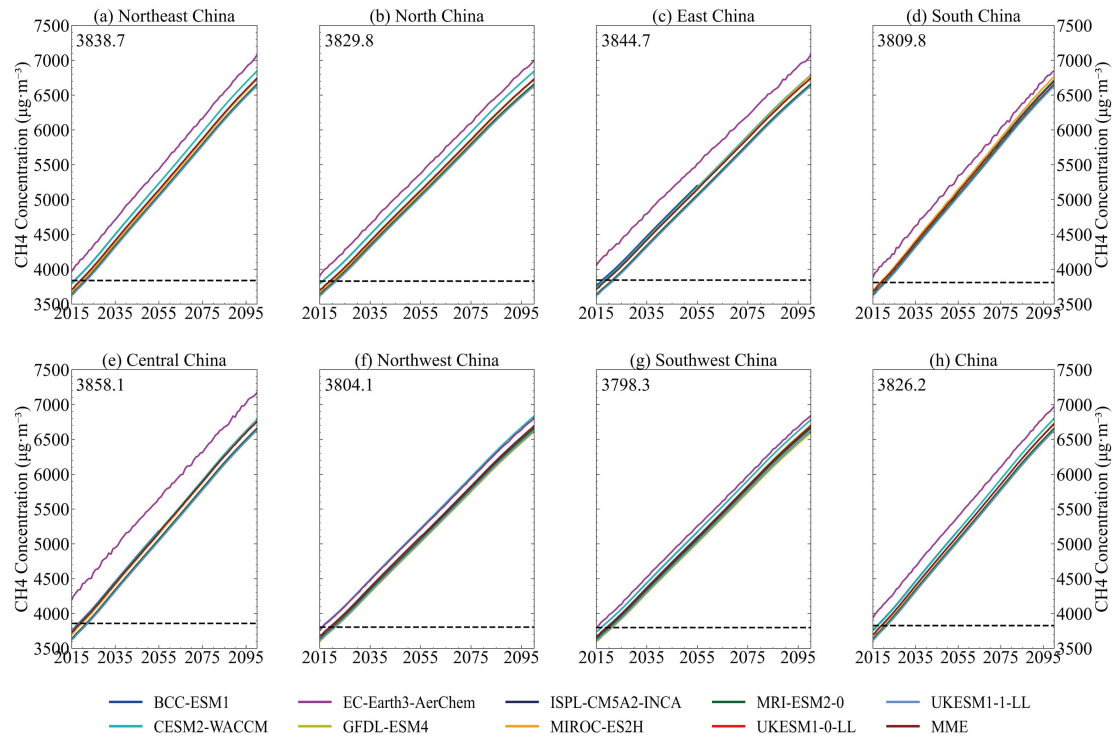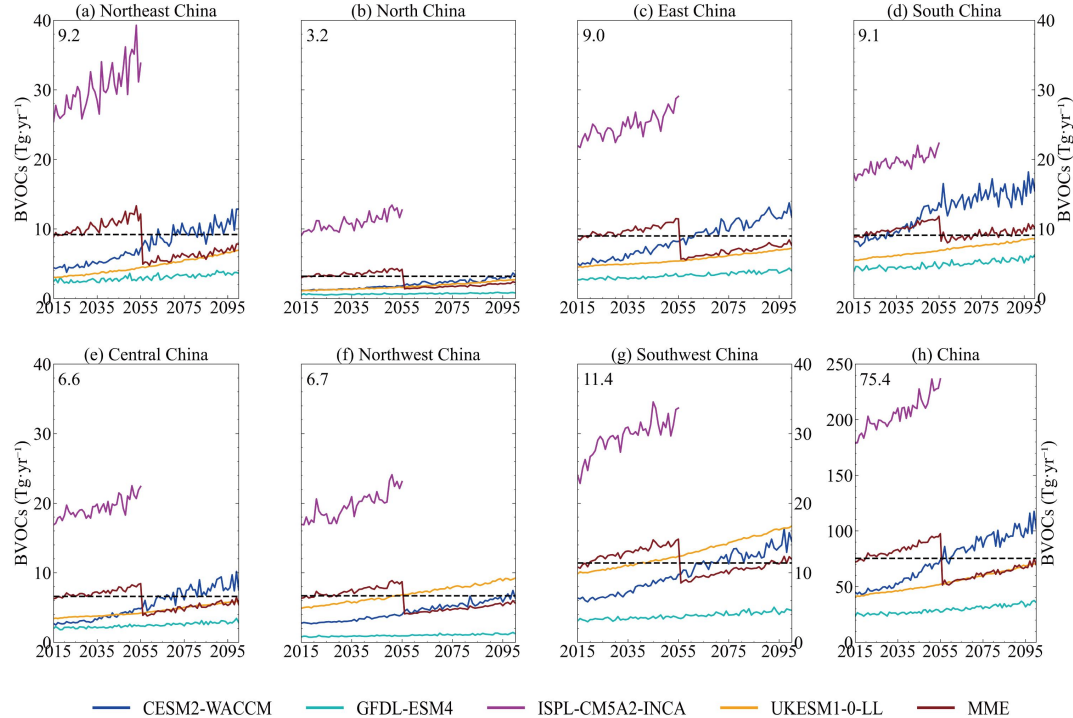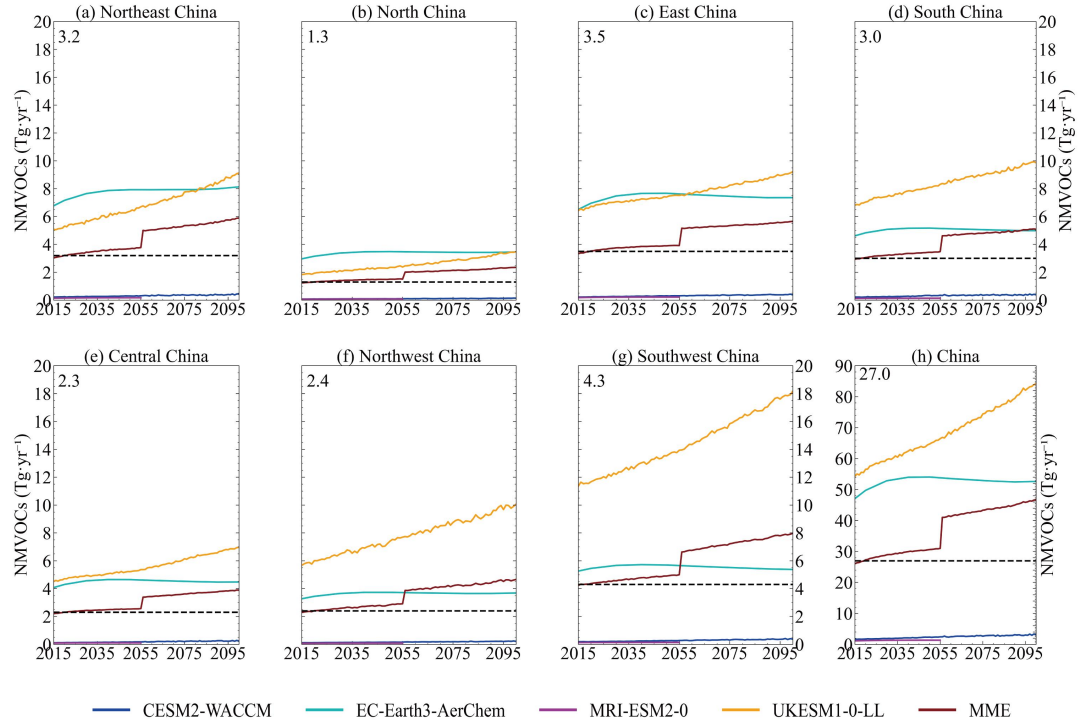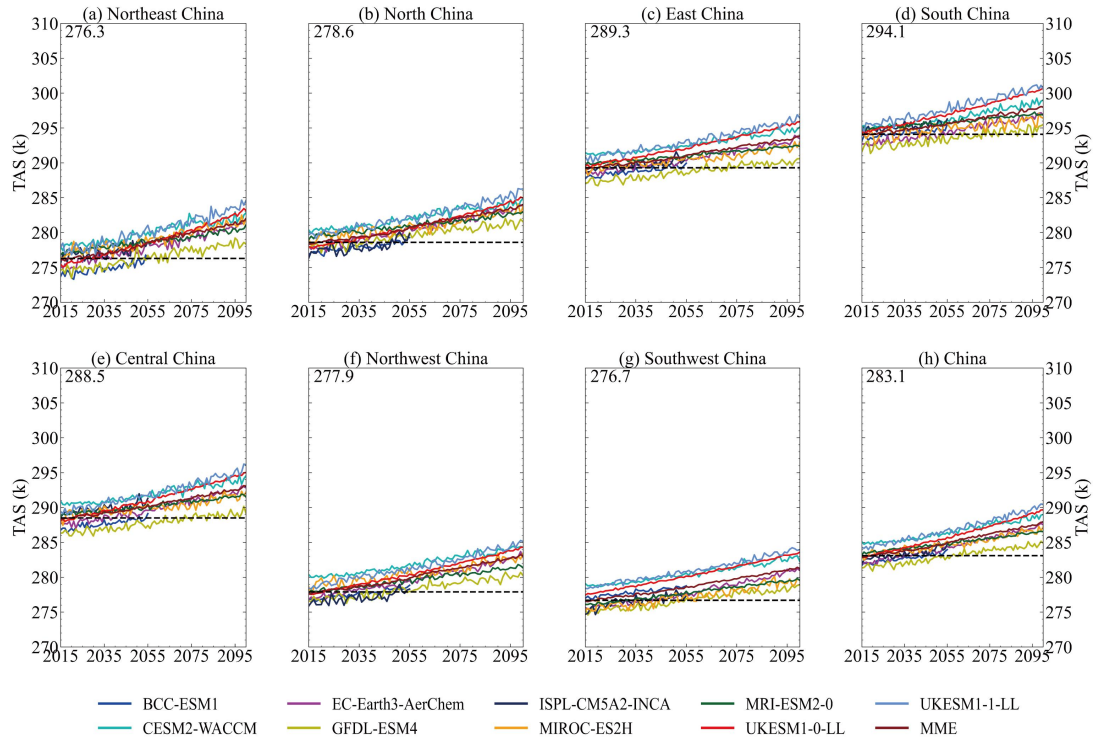

Figure S5 – Changes in the annual total emissions of BVOCs for China and sub-regions from 2015–2100, across nine CMIP6 models and MME for the ssp370 scenario. The black dashed line represents the MME of total BVOCs emissions for 2014–2023, with the value shown in the top left of each panel.

Figure S6 – Changes in the annual total emissions of NMVOCs for China and sub-regions from 2015–2100, across nine CMIP6 models and MME for the ssp370 scenario. The black dashed line represents the MME of total NMVOCs emissions for 2014–2023, with the value shown in the top left of each panel.

Figure S7 – Changes in the annual mean TAS concentrations for China and sub-regions from 2015–2100, across nine CMIP6 models and MME for the ssp370 scenario. The black dashed line represents the MME of surface TAS concentrations for 2014–2023, with the value shown in the top left of each panel.