

List of Figures

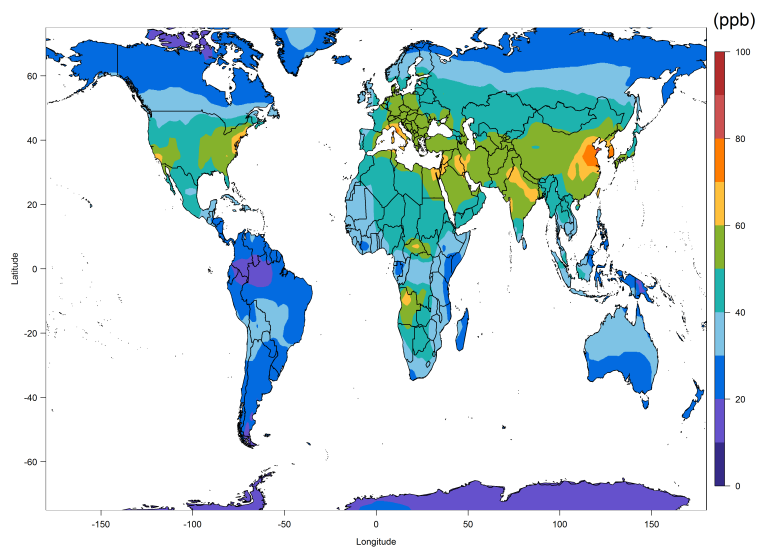
S-1 Global distributions of the ozone metric from ensemble members. 2

S-2 Strong ozone discontinuities, or artefacts, were present along the geometric boundaries, especially in western China, before a spline smoothing was employed. The smoothing is only applied to 3 regions: one horizontal discontinuity between Russia and East/South Asia, one vertical discontinuity between East and South Asia, and one vertical discontinuity between South Asia and Africa. 3

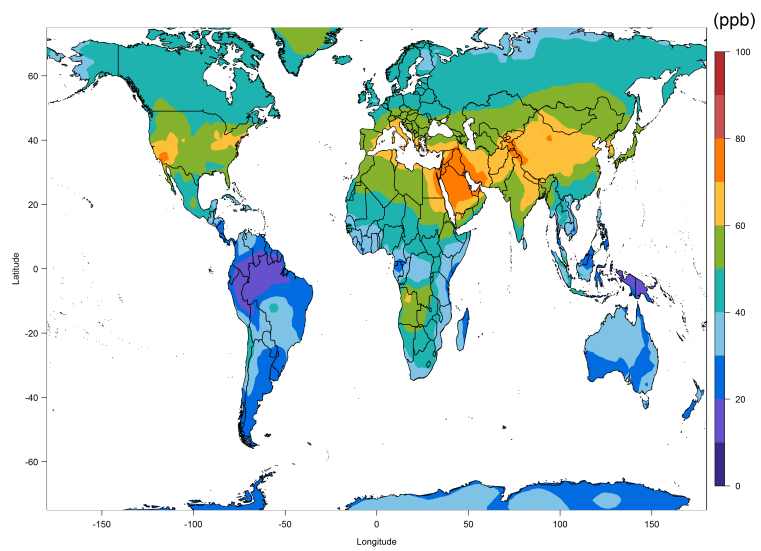
S-3 The multi-model bias corrected surface under different ranges of correction radius. 4

S-4 Amplitudes of multi-model bias correction under different ranges of correction radius. 5

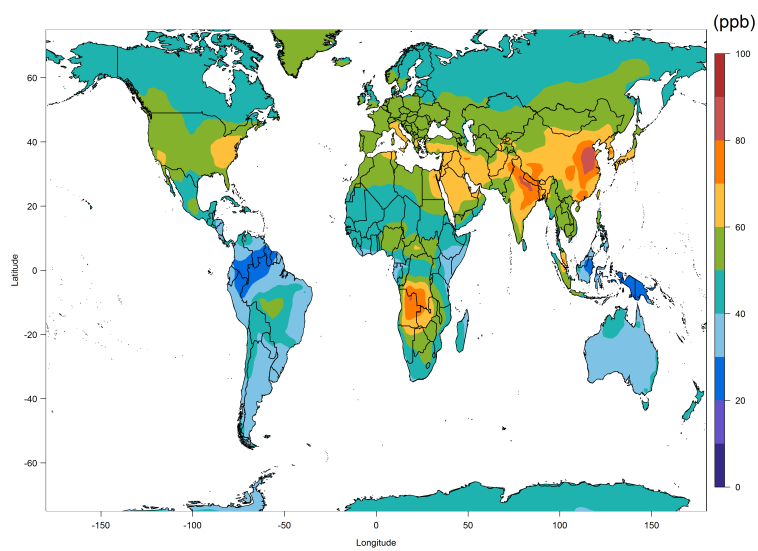
S-5 The empirical variogram of ozone metric in North America from each model and product. 6



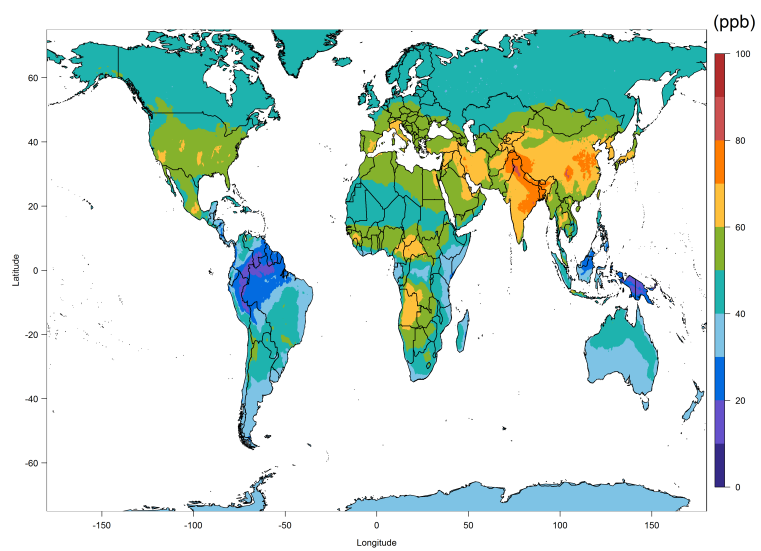
(a) CHASER



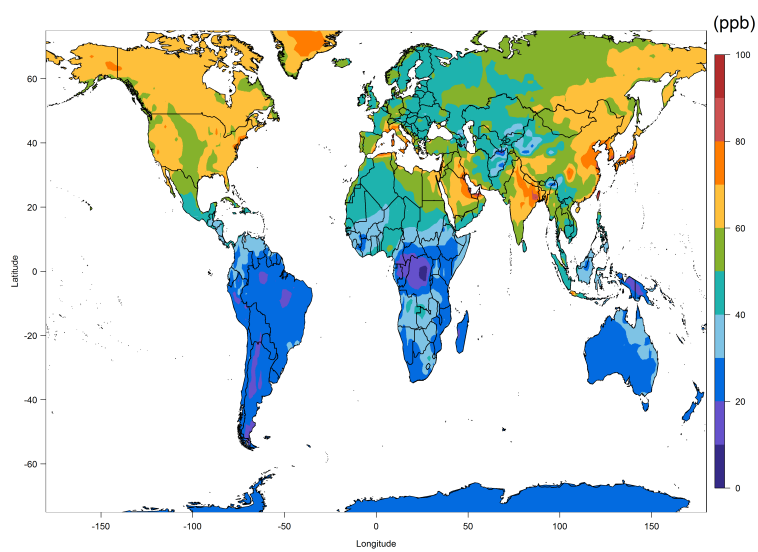
(b) GEOSCCM



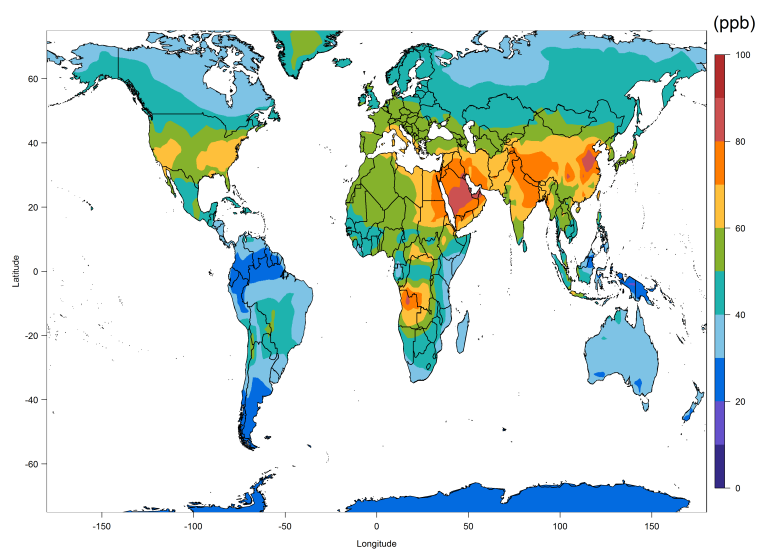
(c) GFDL-AM3



(d) G5NR-Chem



(e) MOCAGE



(f) MRIESM1r1

Figure S-1: Global distributions of the ozone metric from ensemble members.

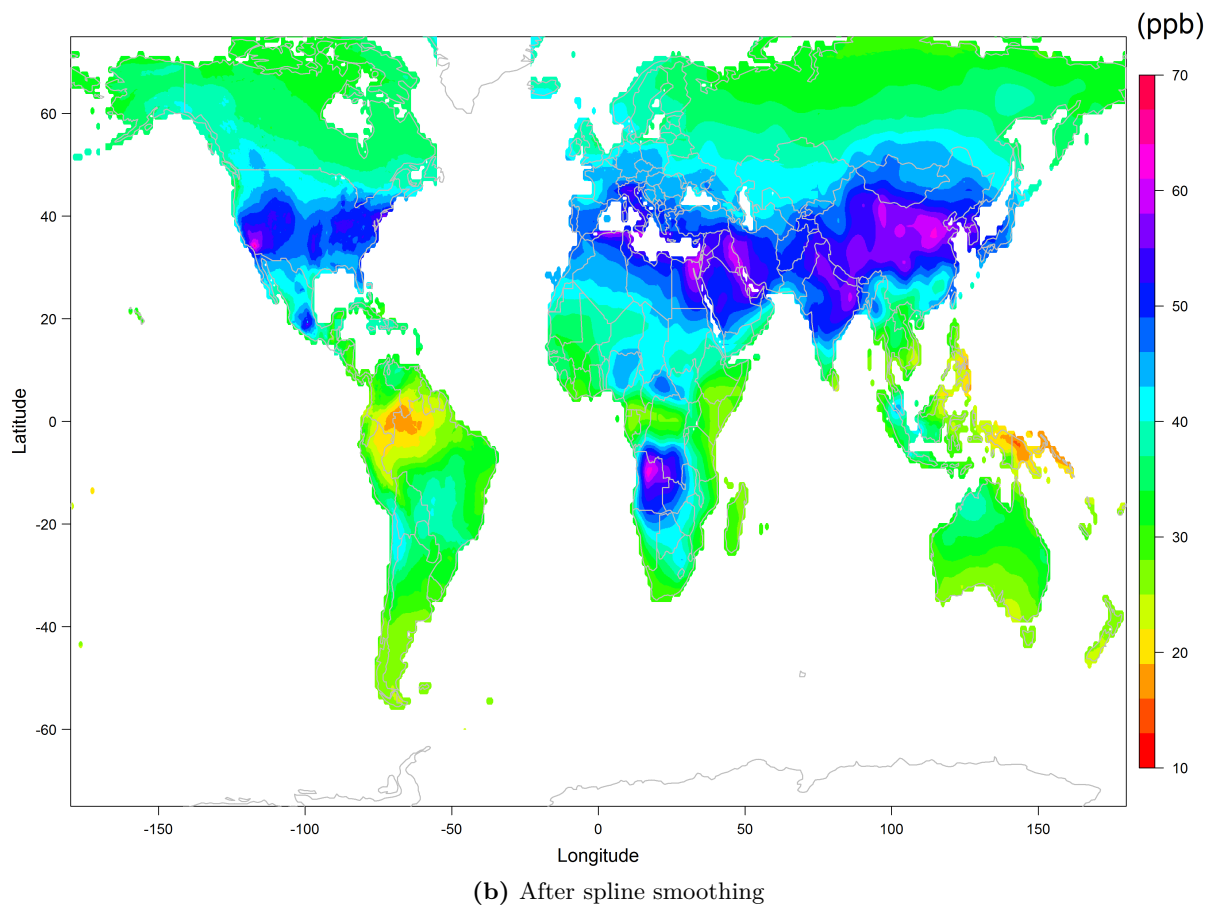
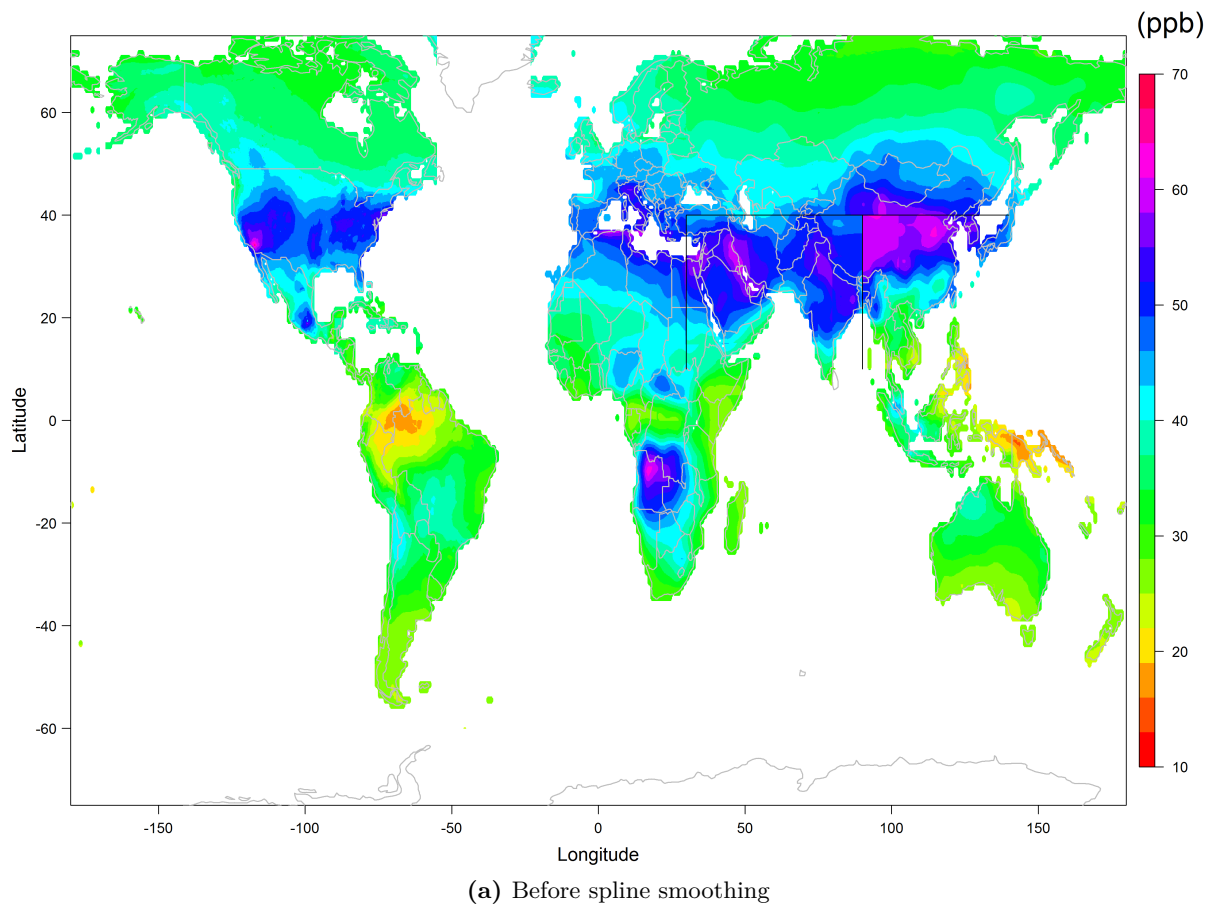


Figure S-2: Strong ozone discontinuities, or artefacts, were present along the geometric boundaries, especially in western China, before a spline smoothing was employed. The smoothing is only applied to 3 regions: one horizontal discontinuity between Russia and East/South Asia, one vertical discontinuity between East and South Asia, and one vertical discontinuity between South Asia and Africa.

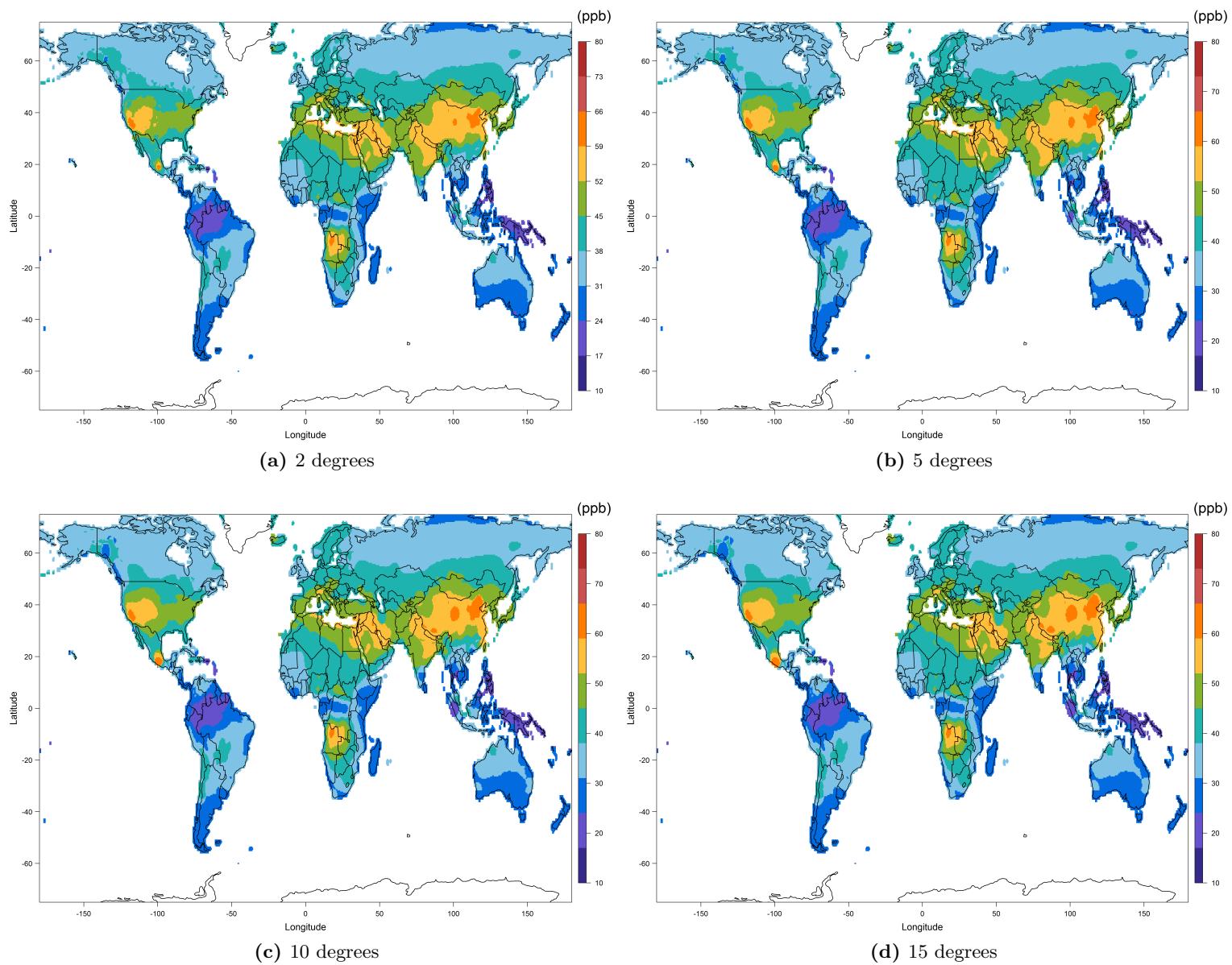
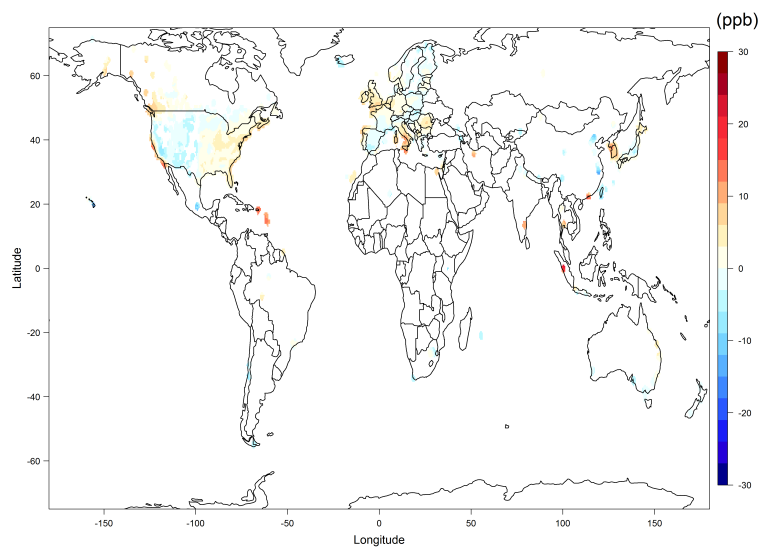
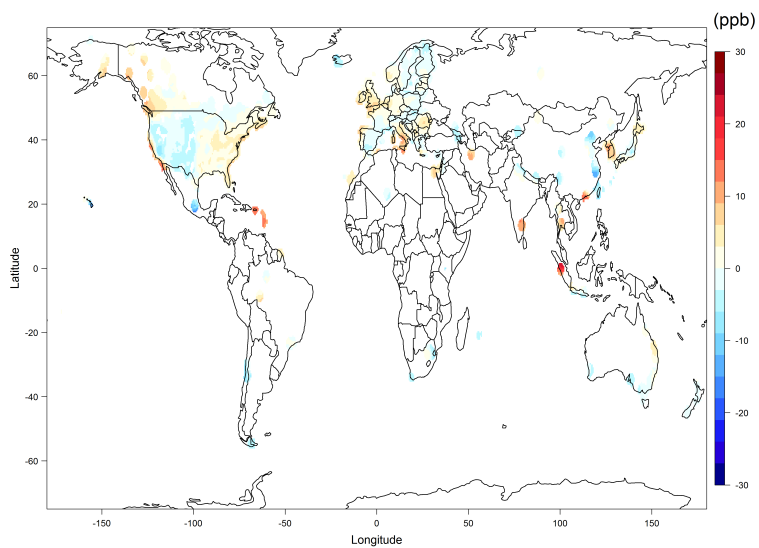


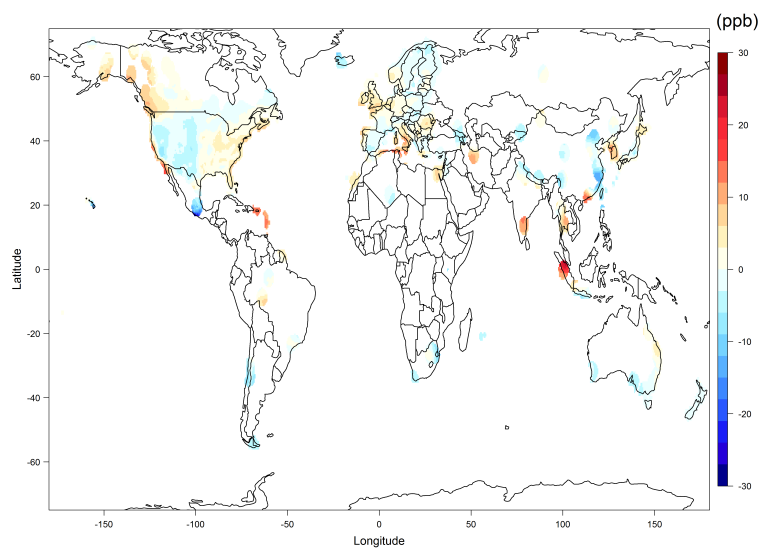
Figure S-3: The multi-model bias corrected surface under different ranges of correction radius.



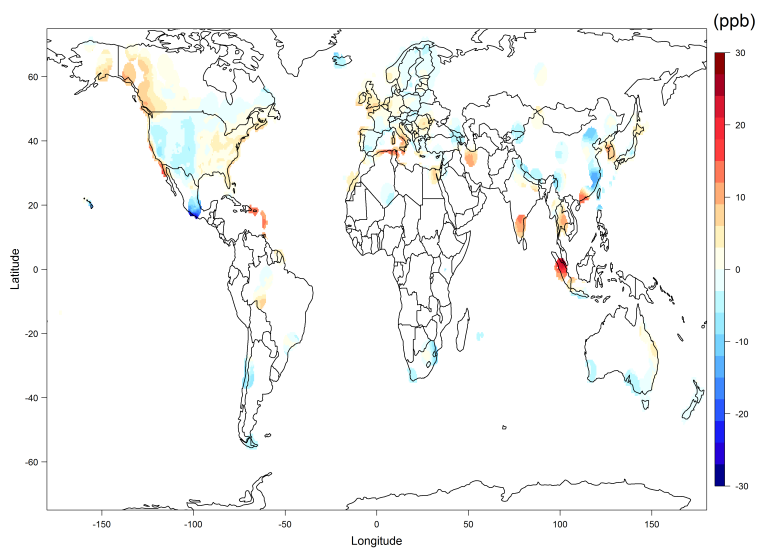
(a) 2 degrees



(b) 5 degrees



(c) 10 degrees



(d) 15 degrees

Figure S-4: Amplitudes of multi-model bias correction under different ranges of correction radius.

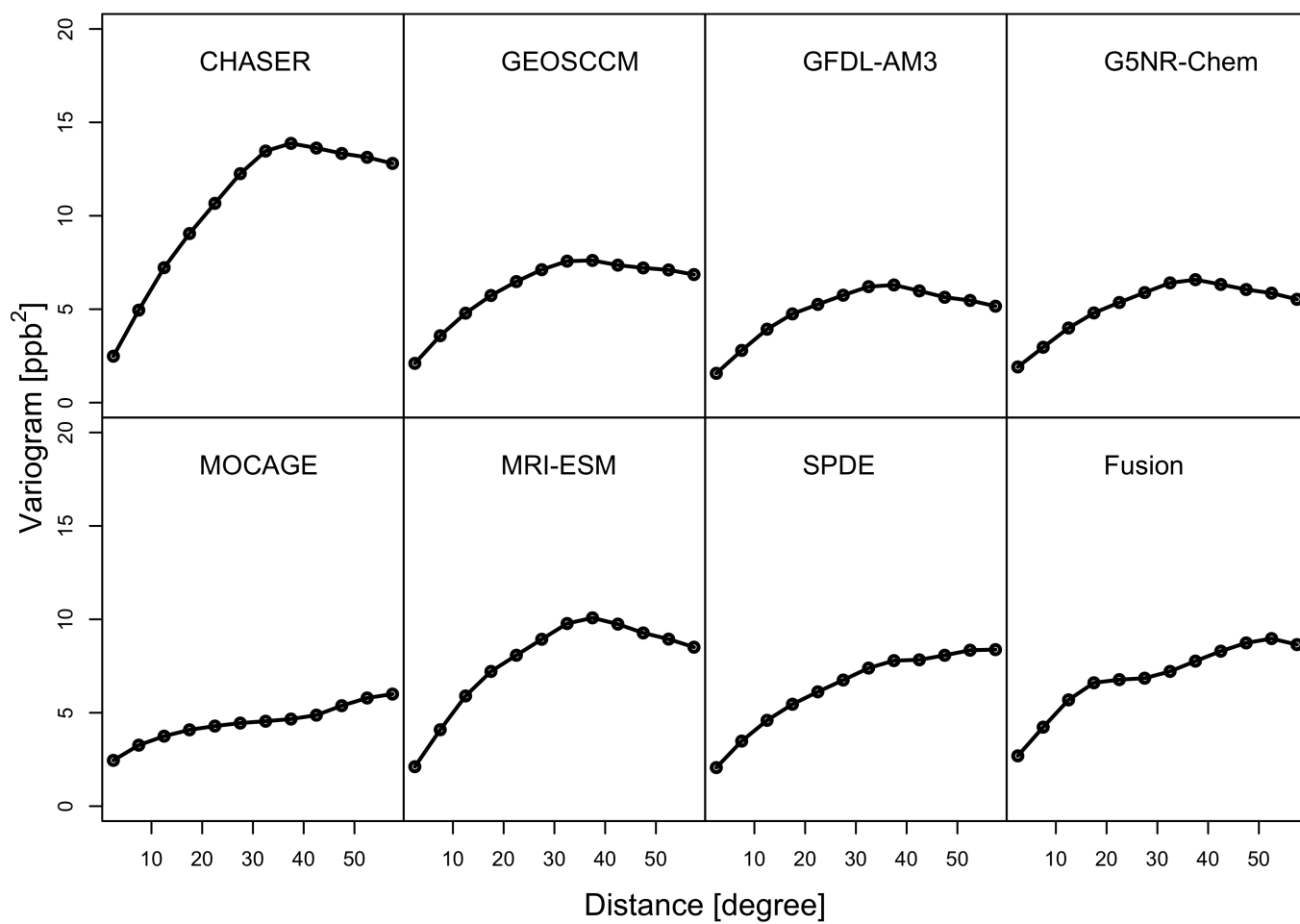


Figure S-5: The empirical variogram of ozone metric in North America from each model and product.