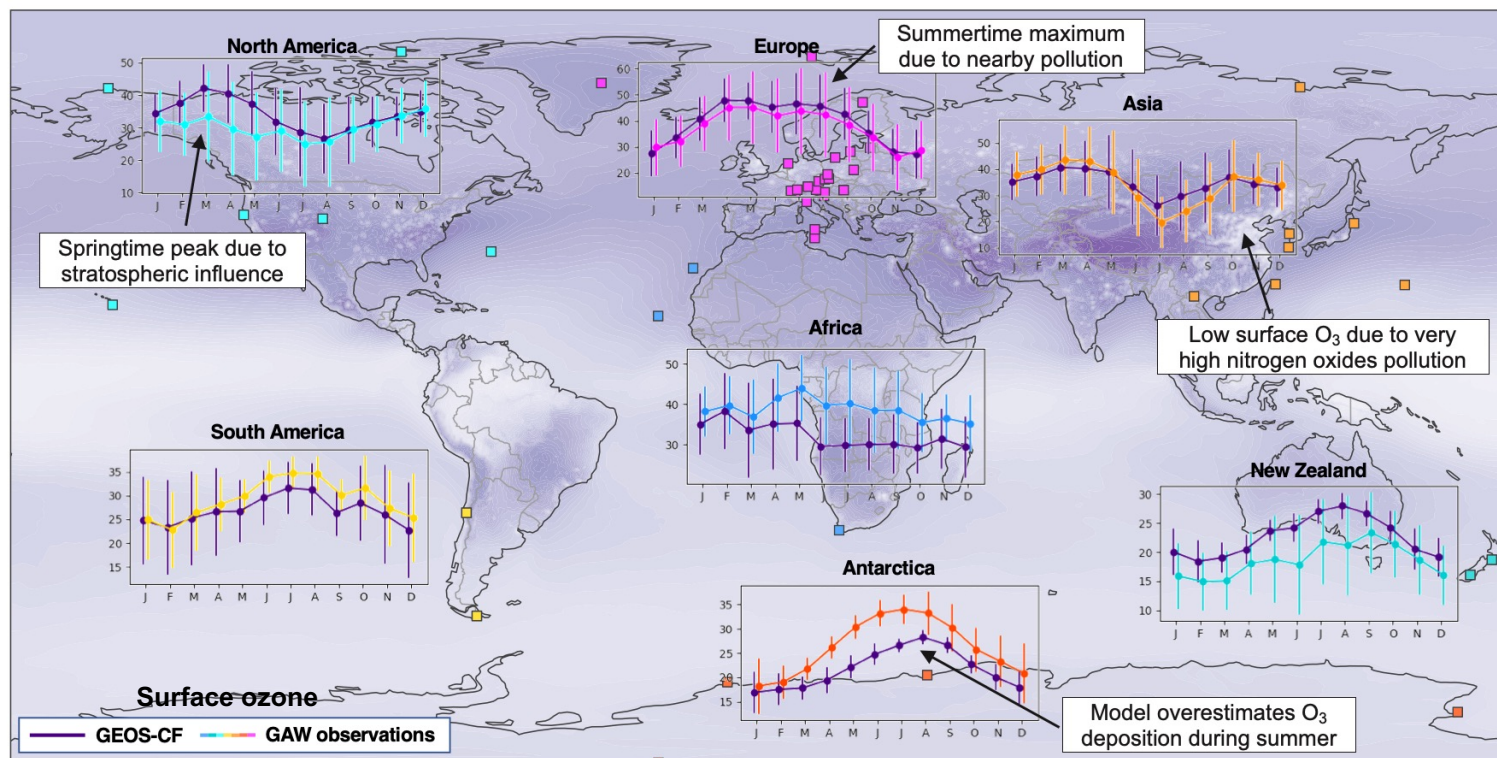


Real-time simulation of atmospheric composition using the NASA GEOS composition forecast system GEOS-CF



- GEOS-CF conducts global simulation of atmospheric composition in near real-time, available publicly at https://gmao.gsfc.nasa.gov/weather_prediction/GEOS-CF/
- Simulated concentrations of key constituents such as ozone (shown above), nitrogen dioxide, and carbon monoxide compare well against independent observations

Keller, C. A., Knowland, K. E., Duncan, B. N., Liu, J., Anderson, D. C., Das, S., et al. (2021). Description of the NASA GEOS composition forecast modeling system GEOS-CF v1.0. *Journal of Advances in Modeling Earth Systems*, 13, e2020MS002413. <https://doi.org/10.1029/2020MS002413>

