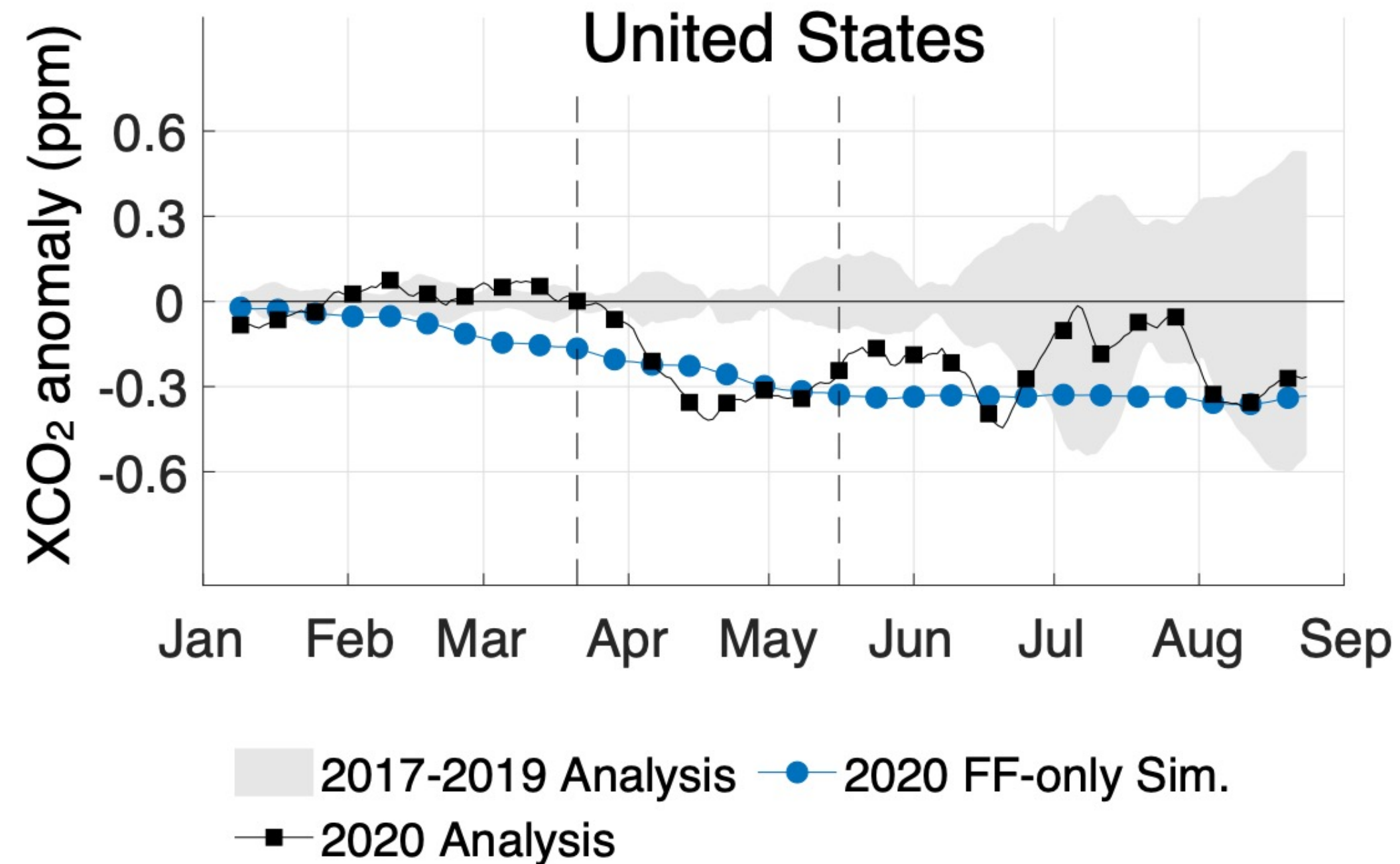


Regional Impacts of COVID-19 on Carbon Dioxide Detected Worldwide from Space



Observed CO₂ change over the USA in 2020 (black), compared to expected interannual variability (gray) and a simulation of impacts of COVID-induced emissions reductions (blue).

- During the COVID-19 pandemic, analysis of NASA satellite observations using the GEOS model helped track the impact of lockdowns on emissions of greenhouse gases like carbon dioxide (CO₂).
- Present-day observations and models can help track regional changes in human CO₂ emissions with low latency (< 2 months).
- Future sensors like GeoCarb will improve ability to observe changes at smaller scales.