

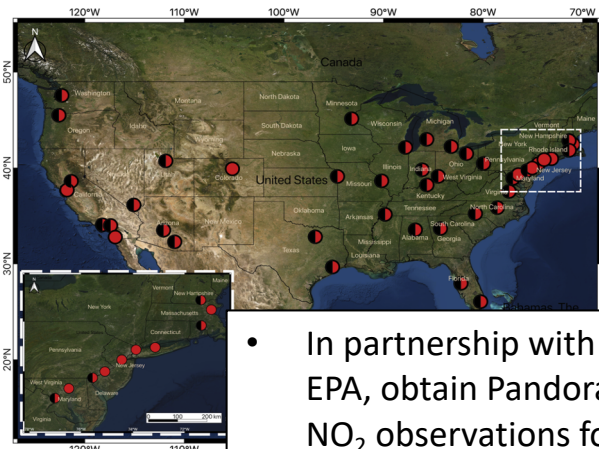
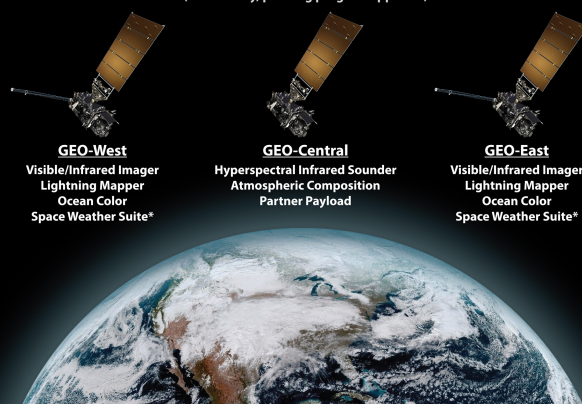
Routine Evaluation of TEMPO Tropospheric Column NO₂ Product at NOAA

Zigang Wei, IM Systems Group at NOAA

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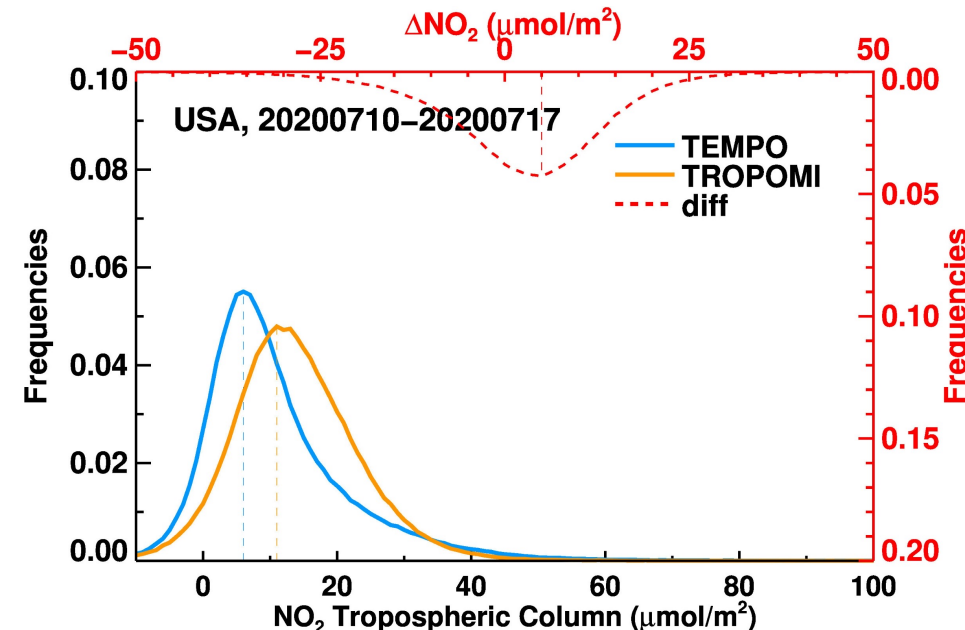
Recommended GeoXO Constellation

(Preliminary, pending program approval)



Regular NASA-NOAA field campaigns targeting multiple L2 products are planned

- In partnership with EPA, obtain Pandora NO₂ observations for routine evaluation of TEMPO tropospheric NO₂ column
- Compare TEMPO tropospheric NO₂ column with TROPOMI and OMPS
- Prior to TEMPO launch, work with proxy data to develop cal/val tools and model applications (e.g., NO_x emissions updates)



- TEMPO proxy NO₂ retrievals for July 10-17, 2020 obtained from the science team (POC: Aaron Nager)
- Comparisons with TROPOMI show a mean bias of 5 μmoles/m²

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