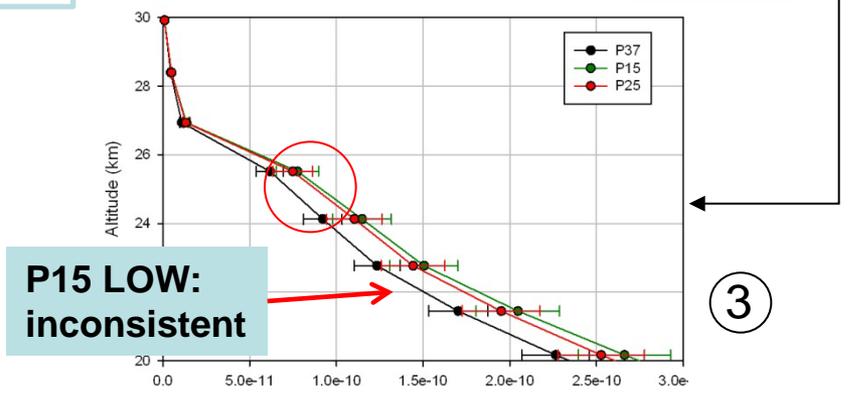
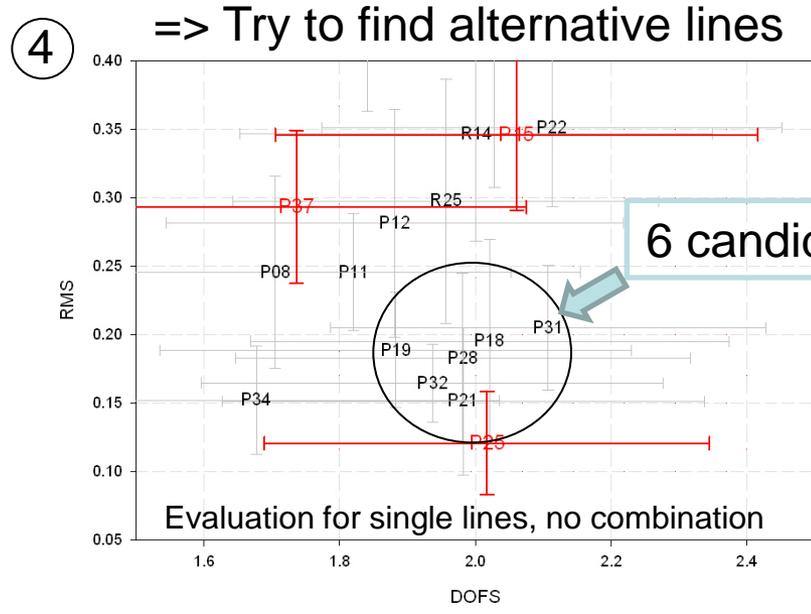
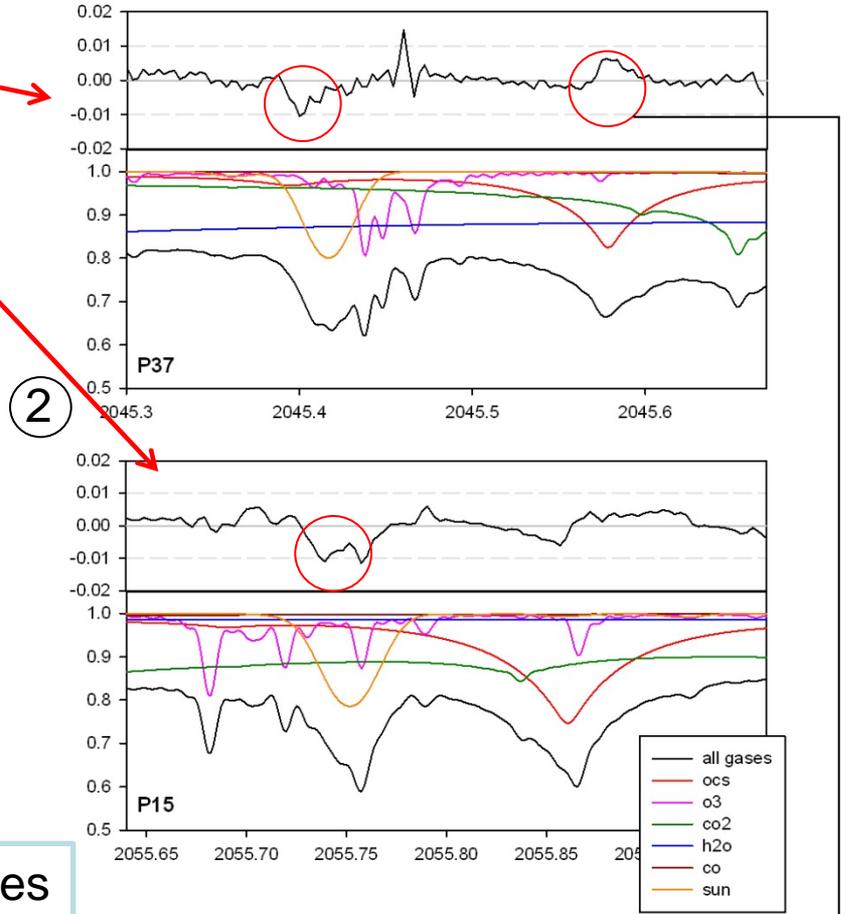
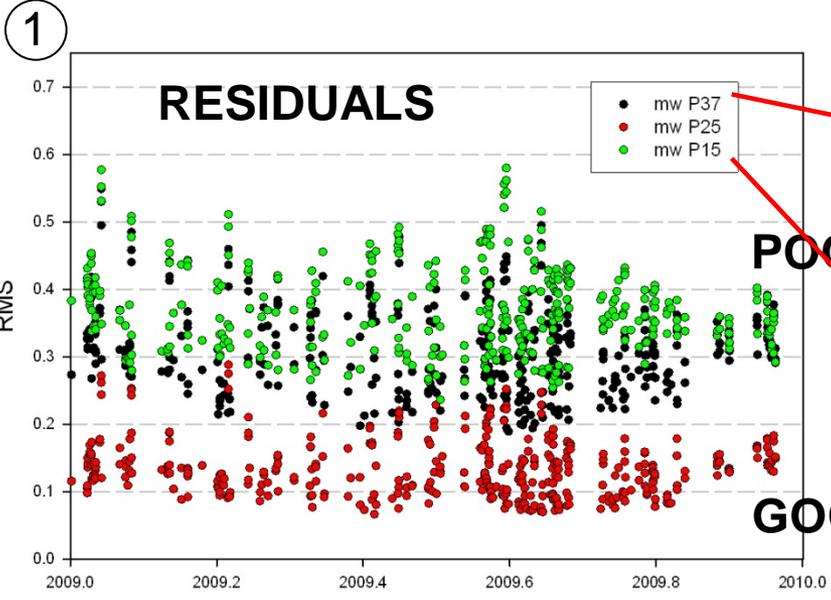
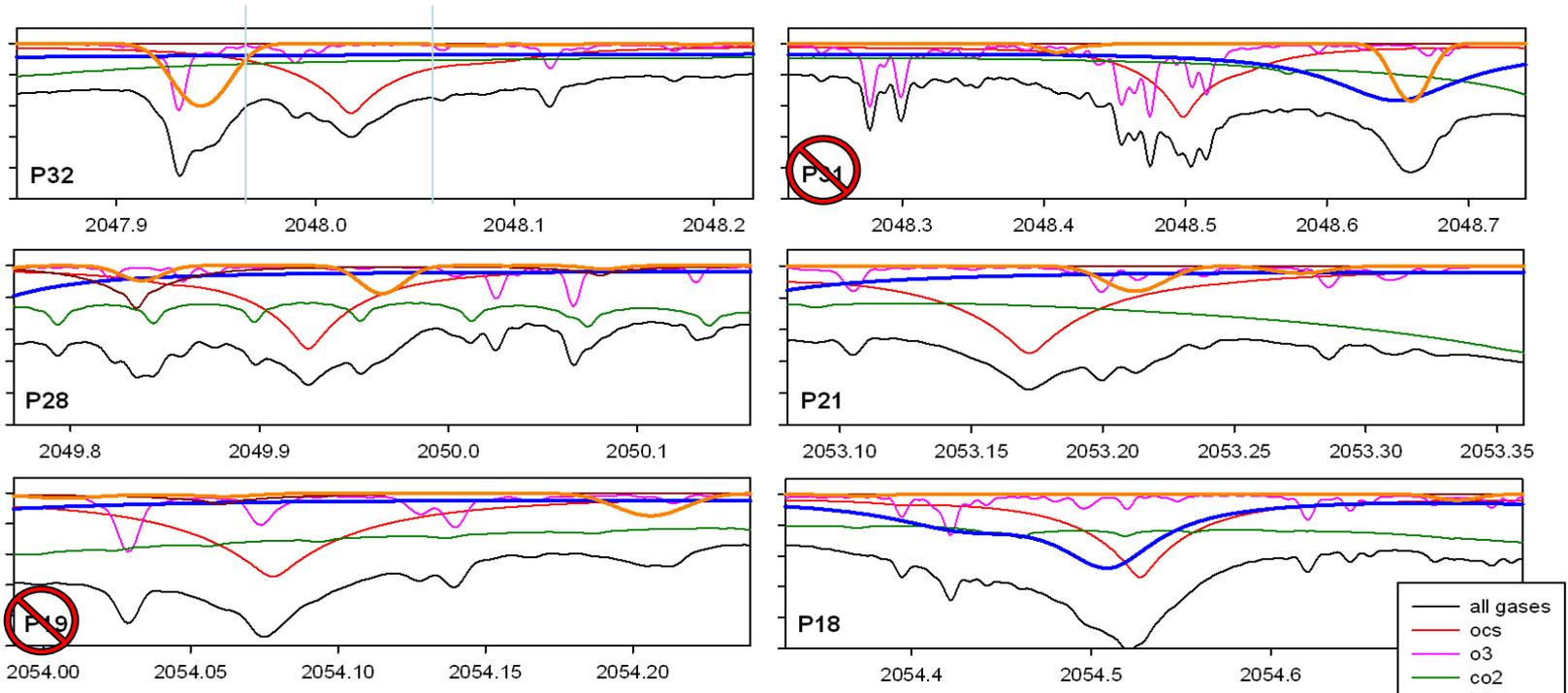


COS at the center of many scientific questions/investigations:

- Most abundant sulfur-bearing constituent in the troposphere (500 ppt)
- Coal emissions
- Aluminum industry emissions
- Vegetation uptake
- Main contributor to the Stratospheric Sulfate Aerosol layer
- ...
- Atmospheric budget still very uncertain!



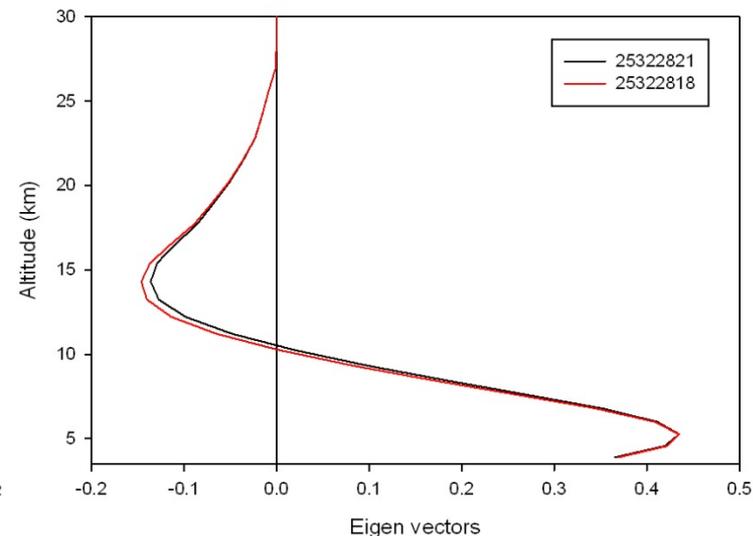
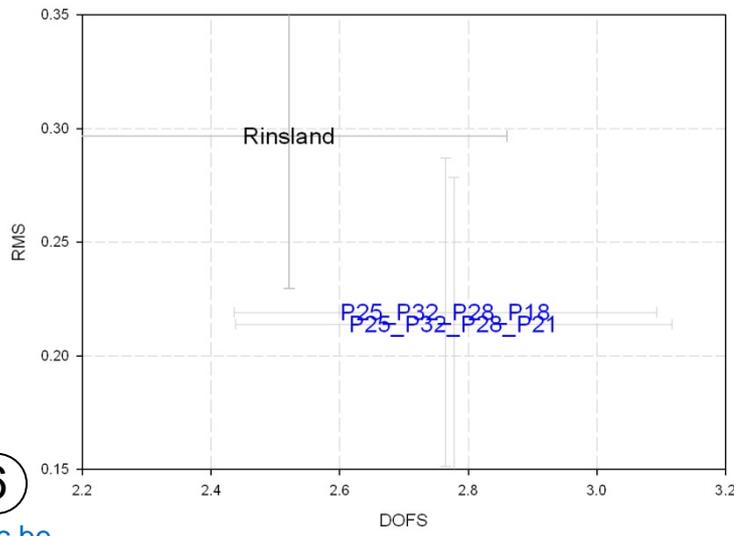
5



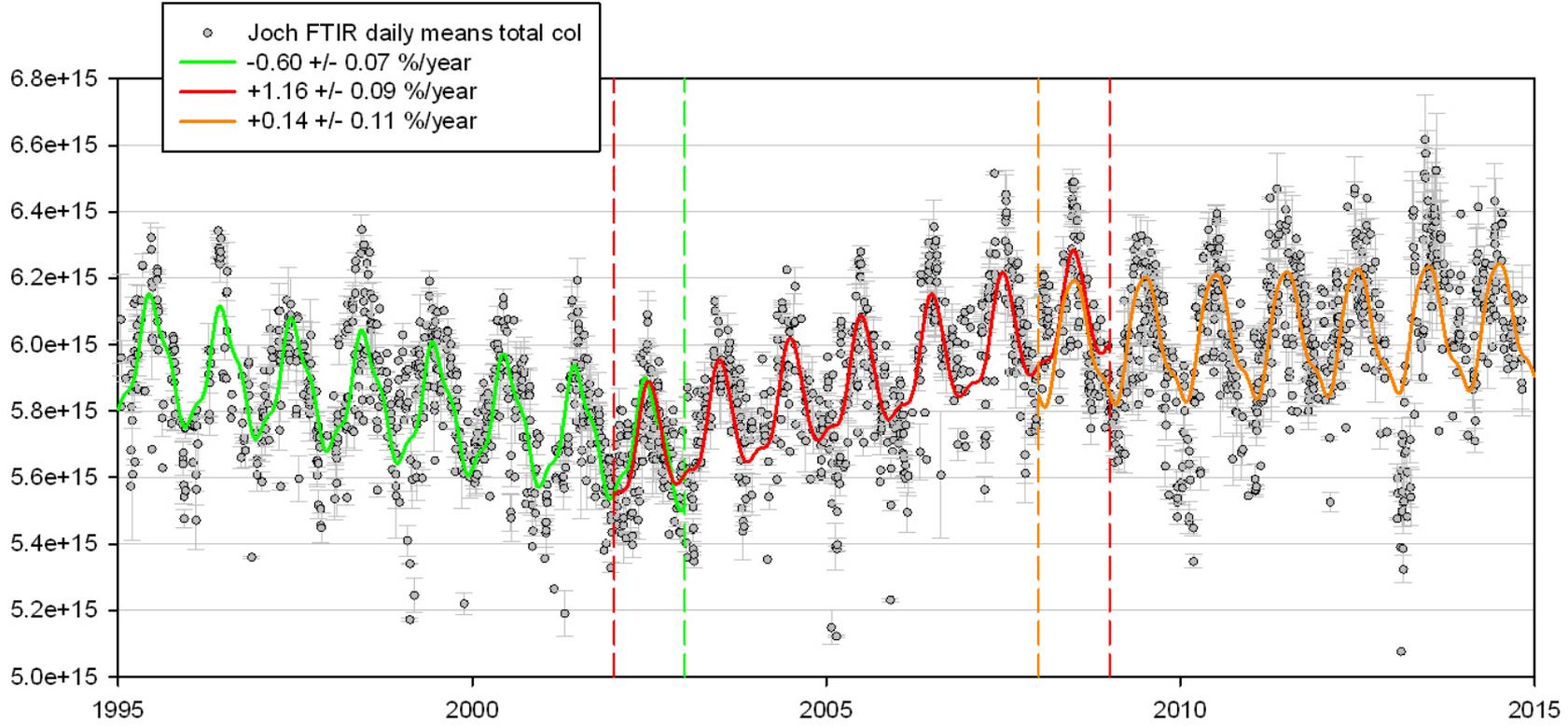
• P31 and P19 rejected for various reasons (degradation of P25 residuals, vertical profile oscillation, high scatter for retrieved OCS column values, etc...)

2 "4-WINDOW" OPTIONS proposed:
 P25 + P32 P28 P18 (dry sites)
 P25 + P32 P28 P21 (wet sites)

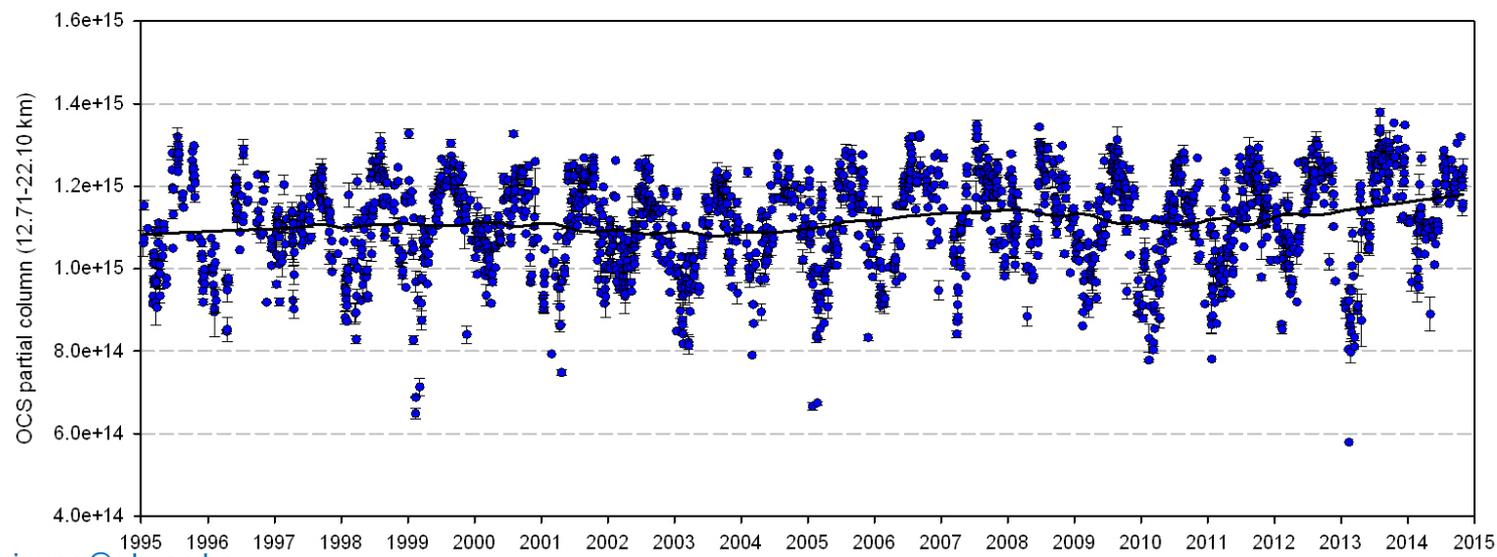
6



7



8



Inputs from Nicholas/Stefanie

- Preferred combination for Lauder: P32, P28, P25 and P19: 3 windows in common = good!
- Some options really not recommended: fitting of the curvature compromises the determination of a sensible seasonal signal

