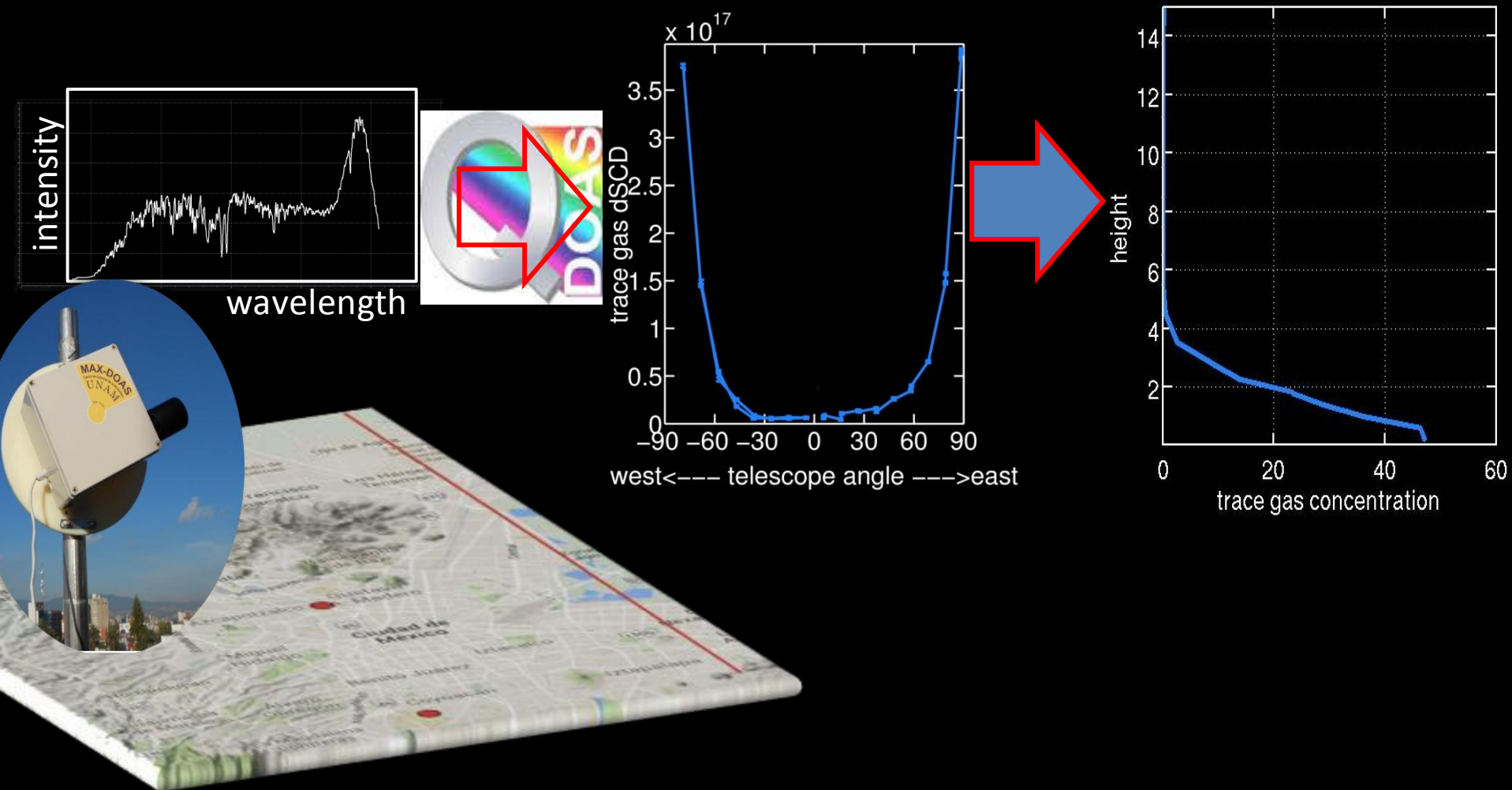
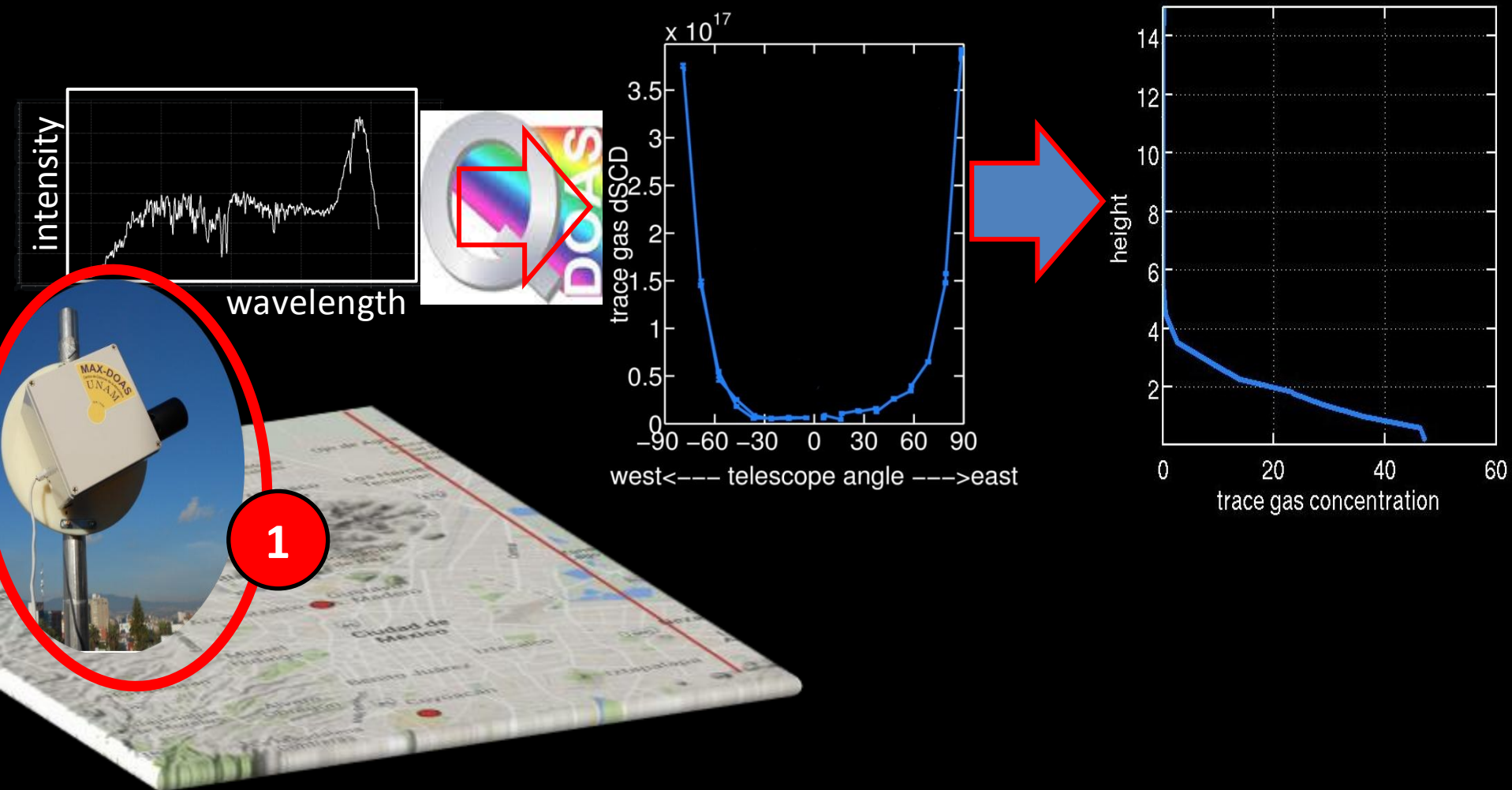


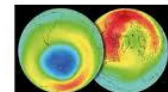
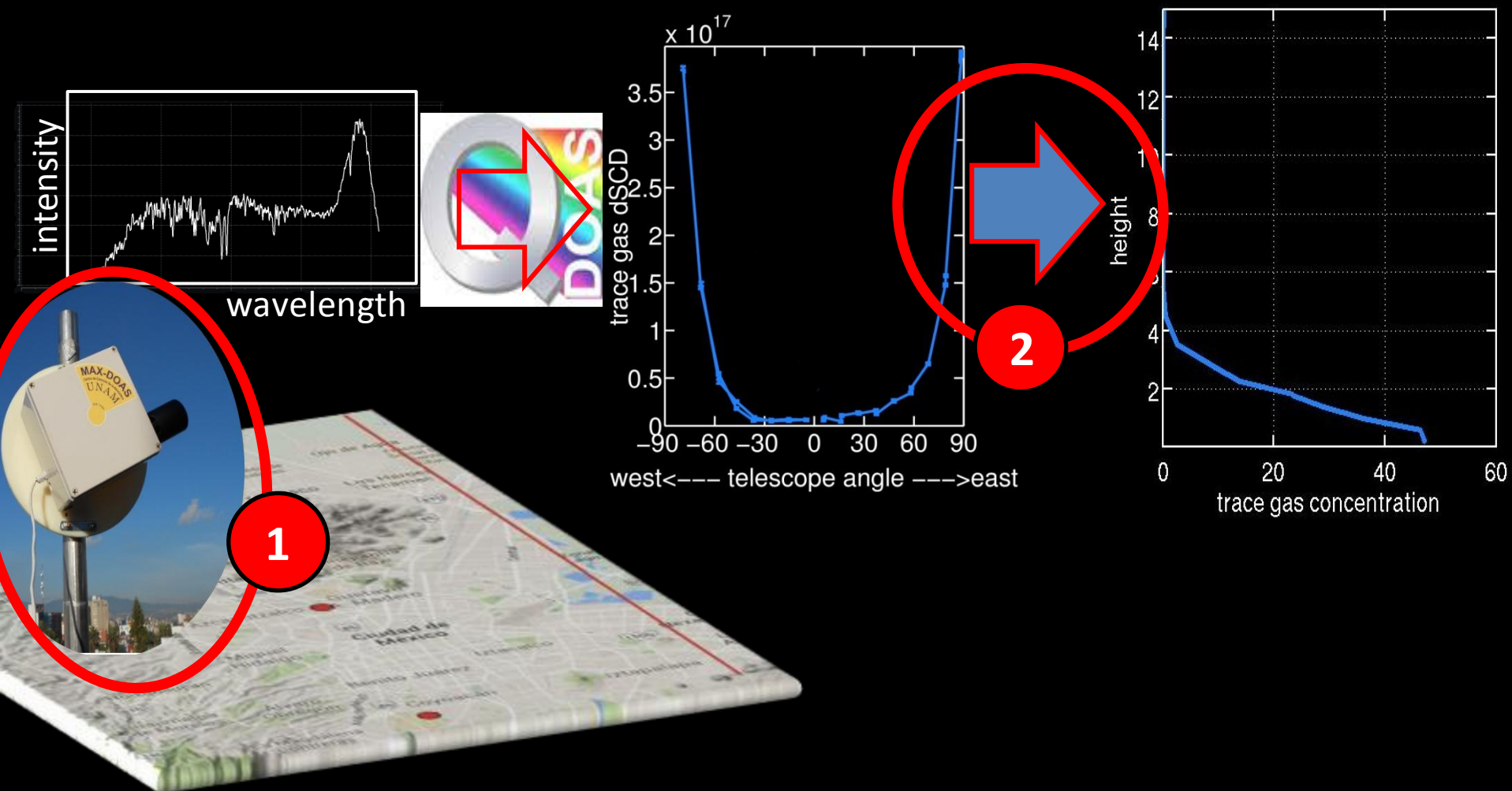
Profile retrievals of tropospheric trace gases from the UNAM MAX-DOAS network in Mexico City

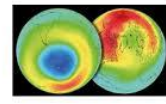
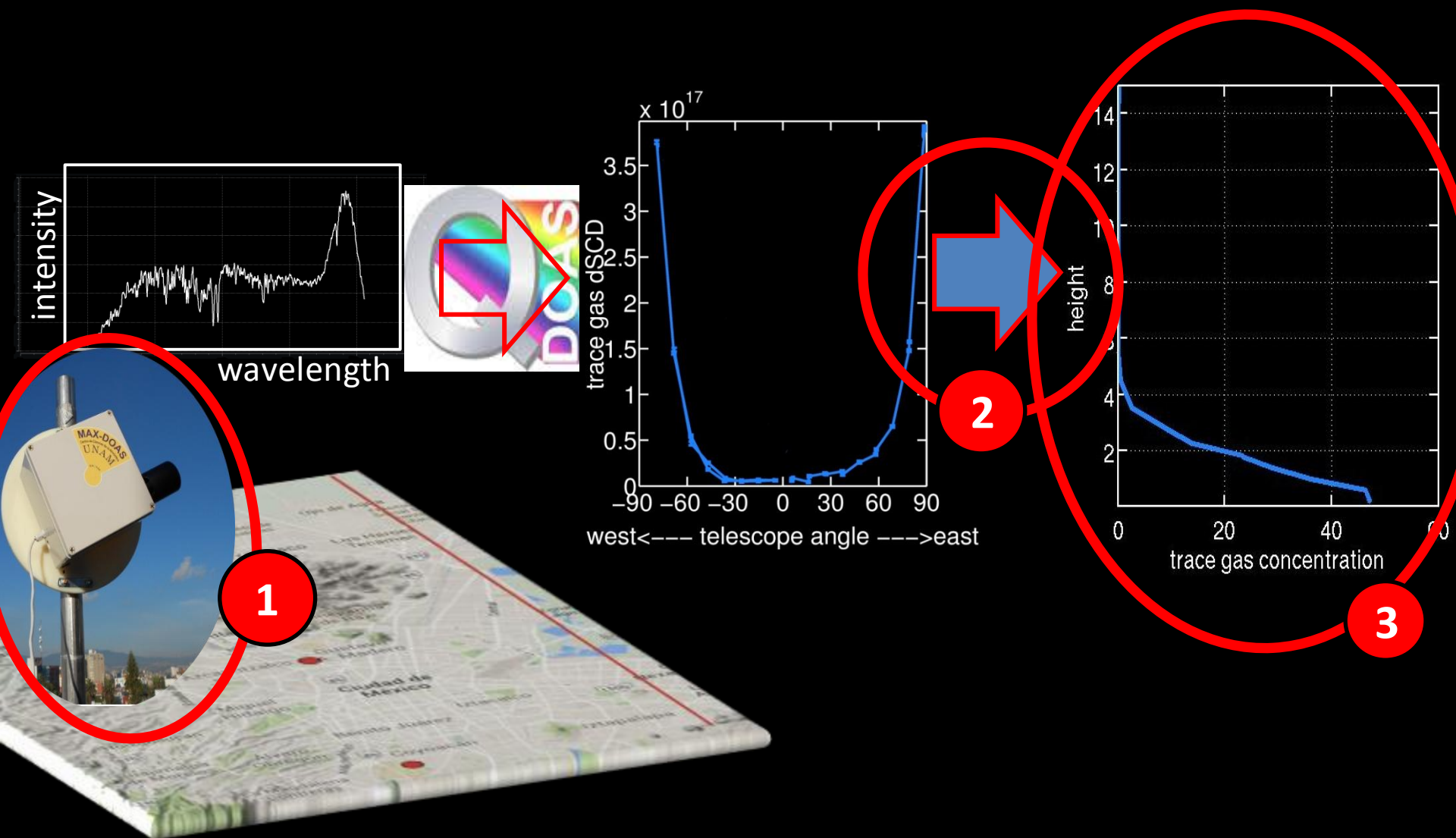
Martina M. Friedrich, E. Josue Arellano H., Claudia I. Rivera C., Wolfgang M. H. Stremme, Michel A. Grutter M.









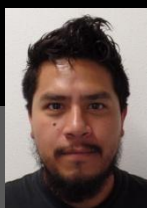


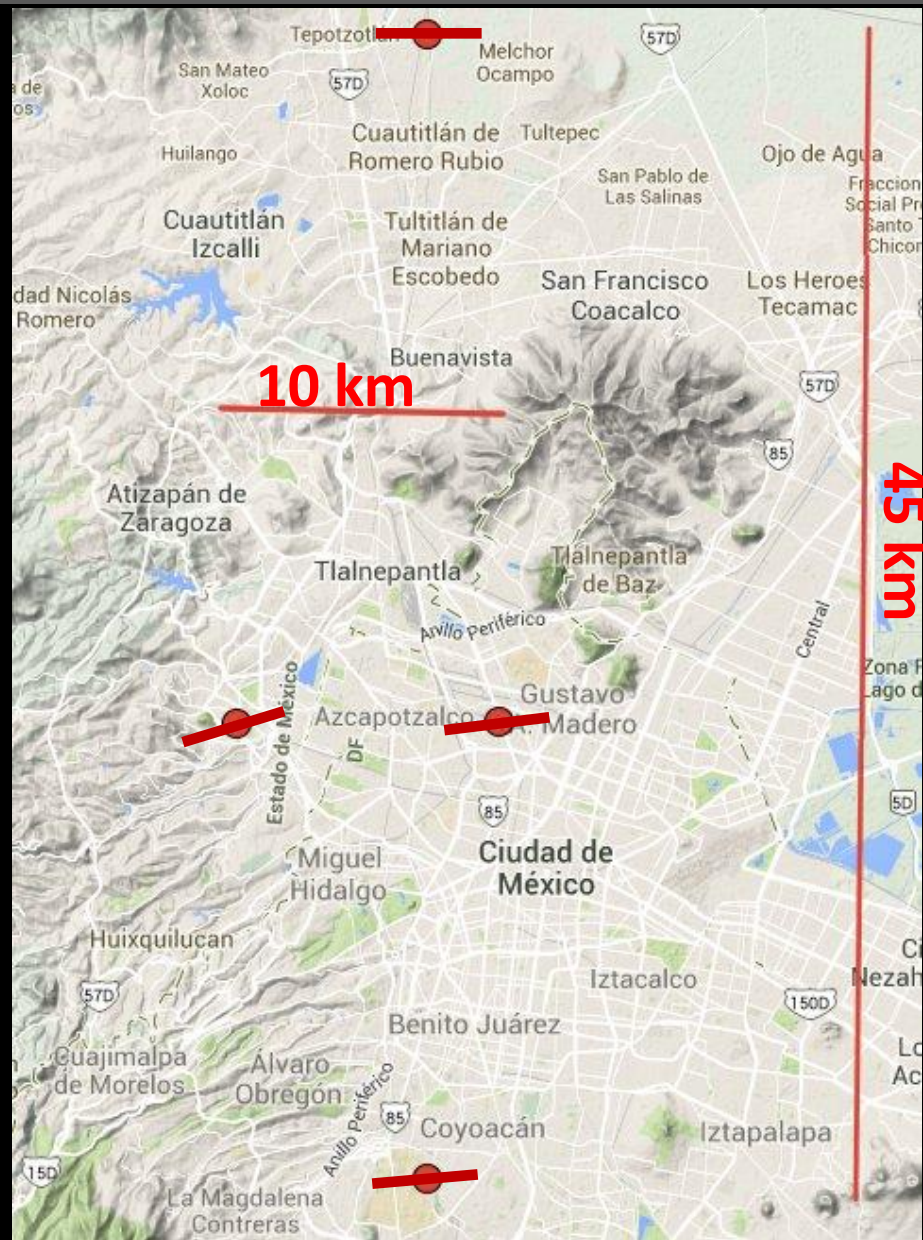


Arne Krueger



E. Josue Arellano H.





Arne Krueger



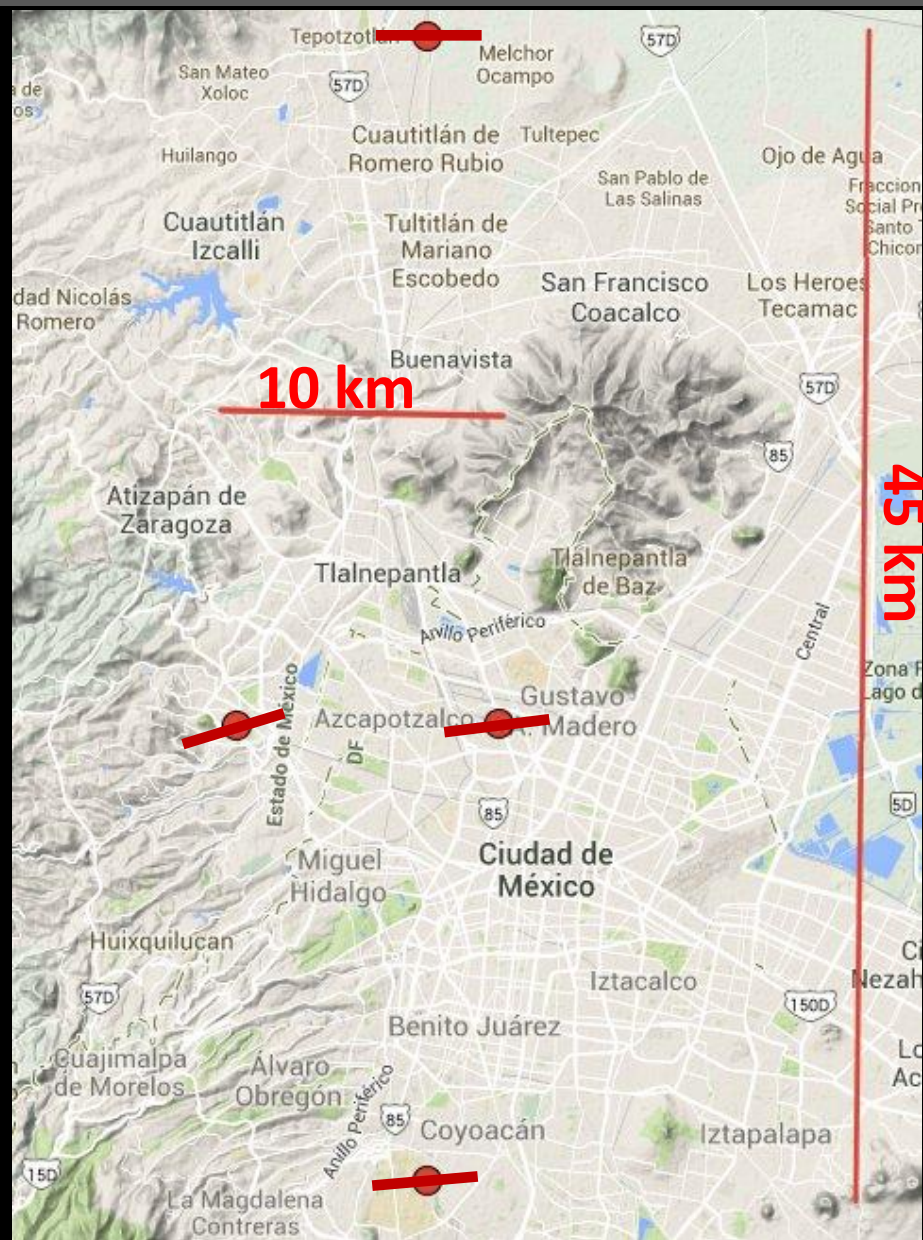
E. Josue Arellano H.



west



east

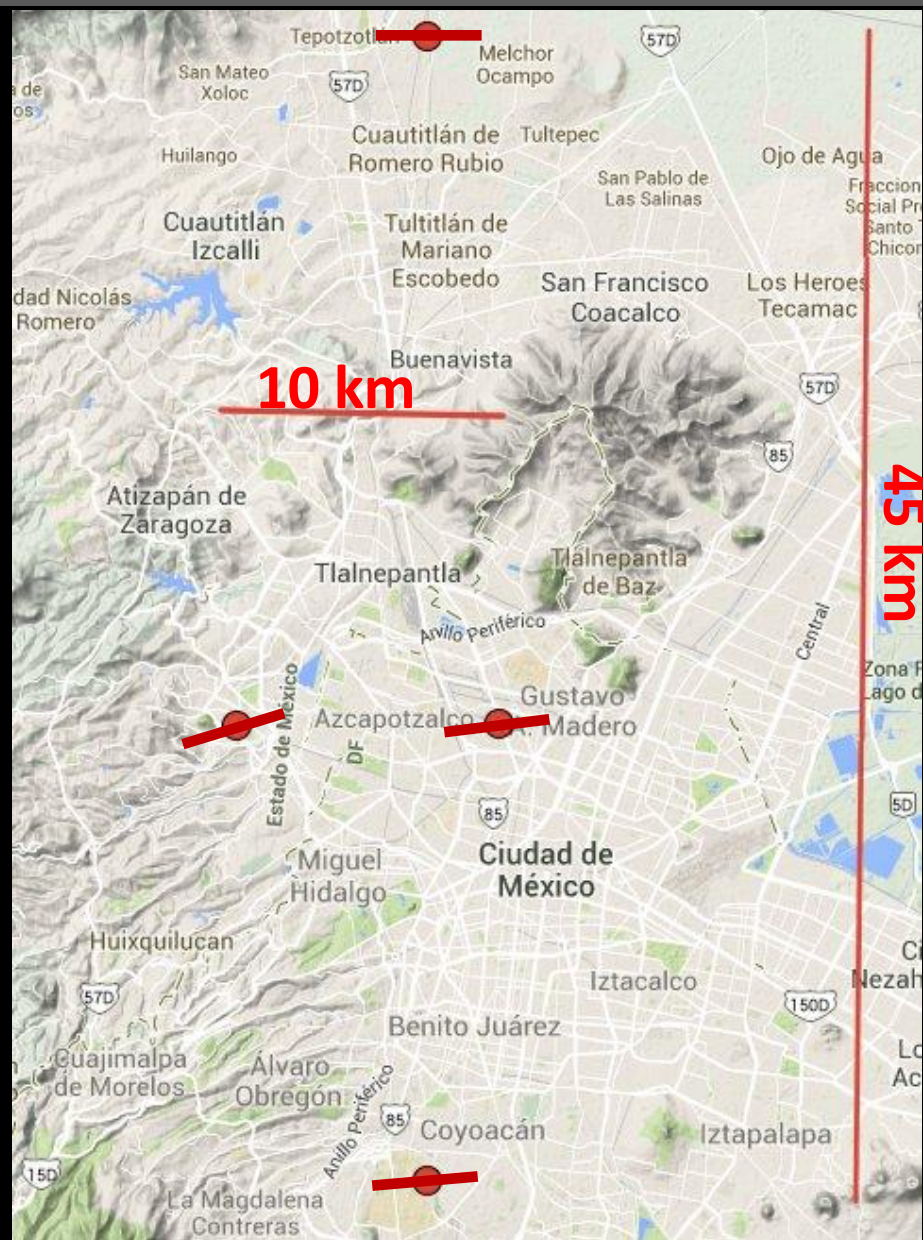
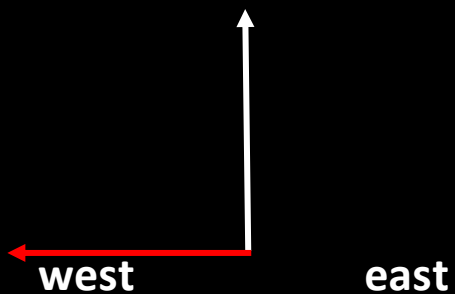


Arne Krueger



E. Josue Arellano H.

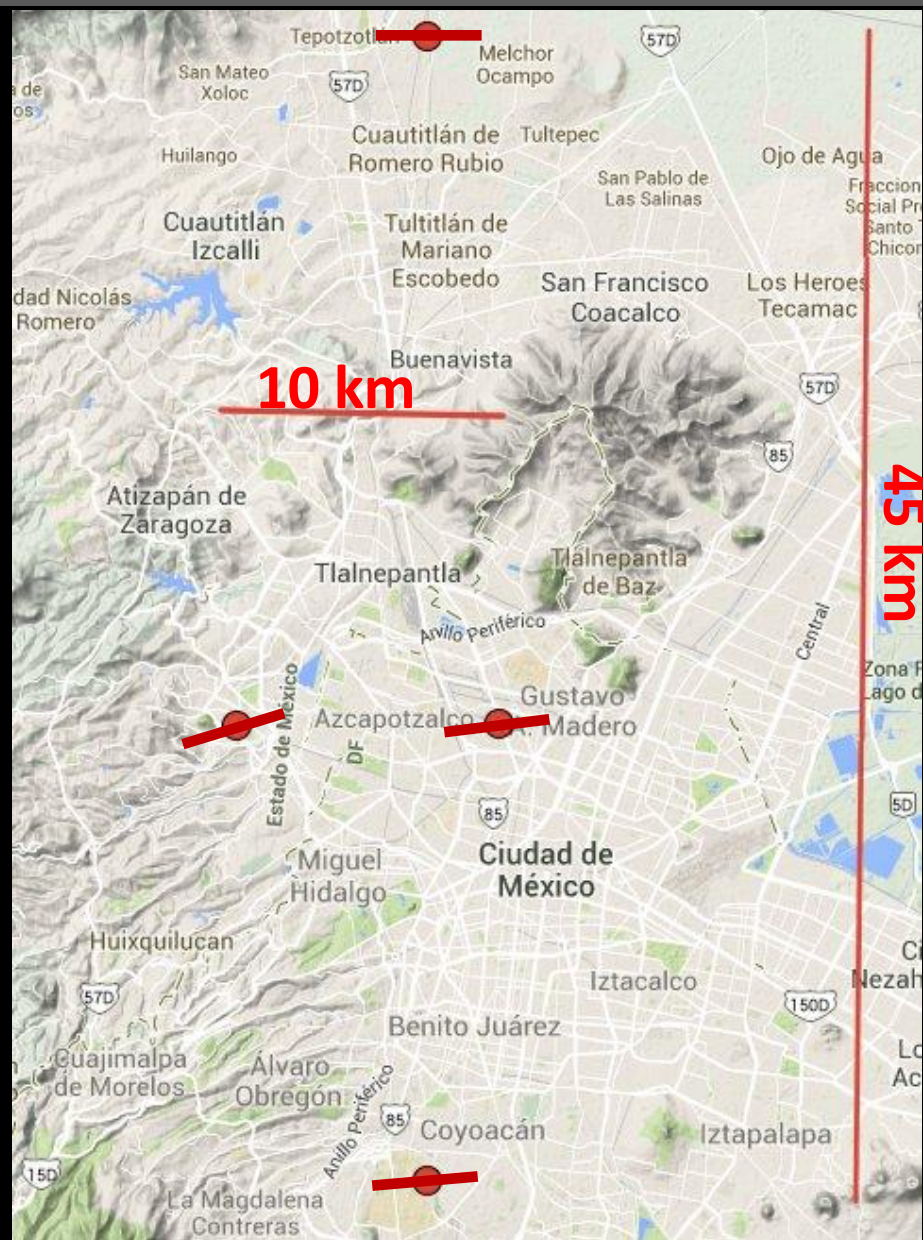
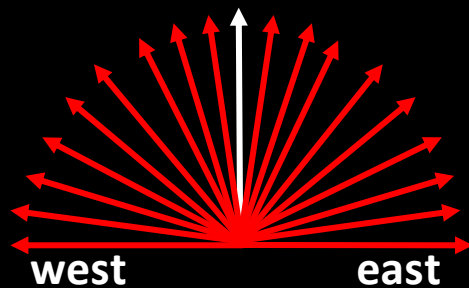
MAX DOAS network Mexico City



Arne Krueger



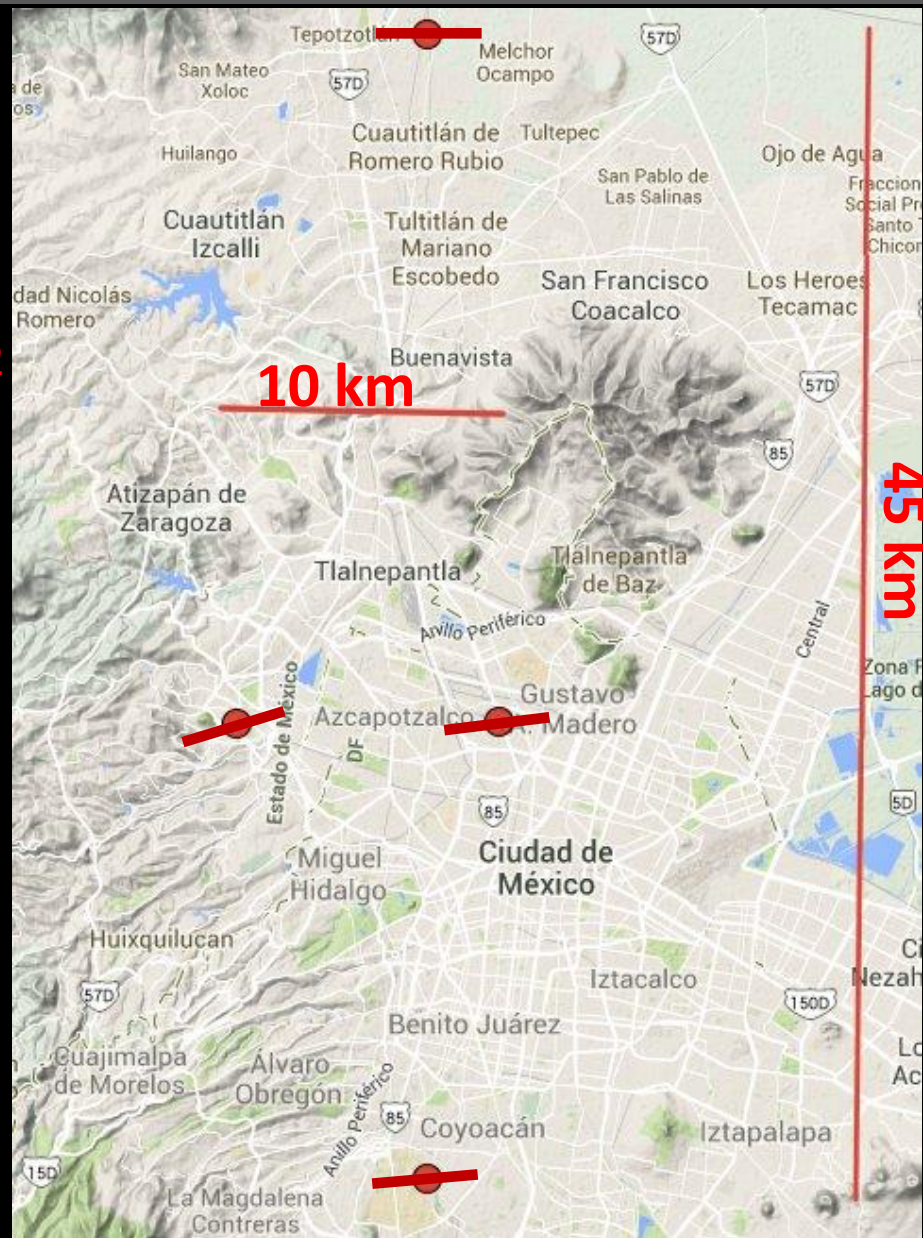
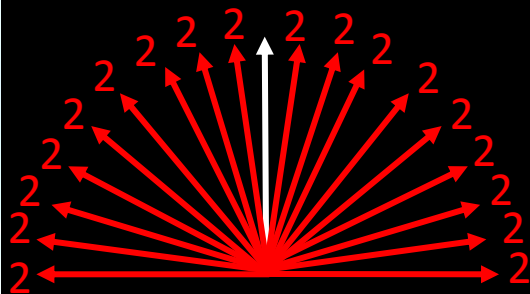
E. Josue Arellano H.



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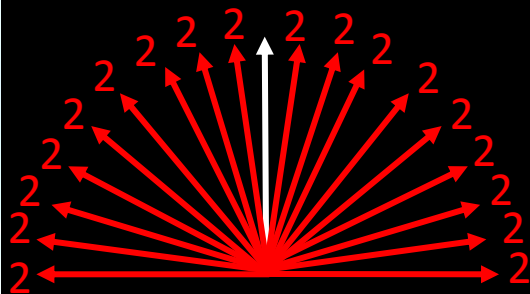
E. Josue Arellano H.



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E. Josue Arellano H.



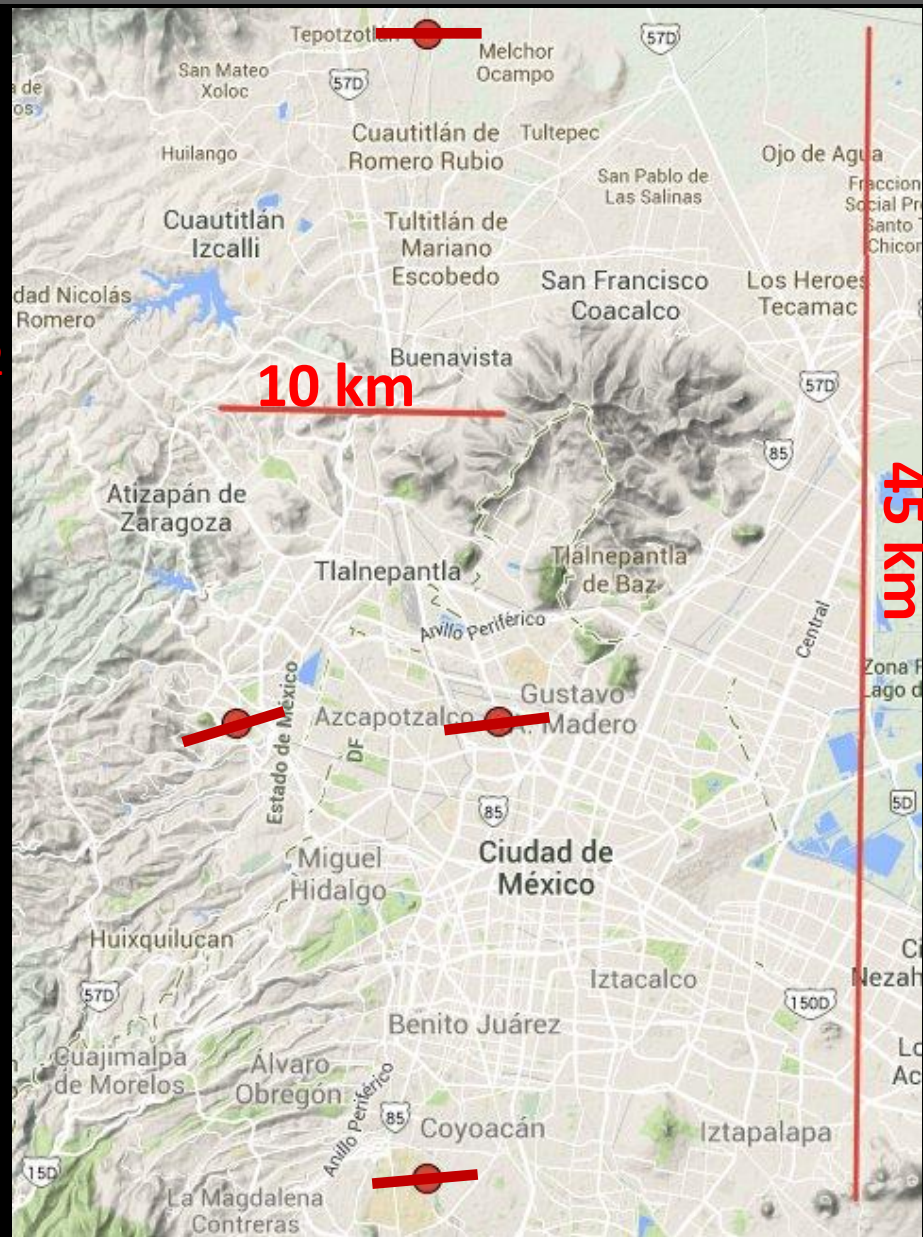
$(2 \times 2 \times 9)$ angles + zenith

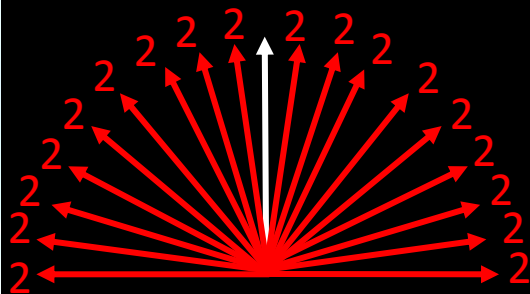


Arne Krueger



E. Josue Arellano H.





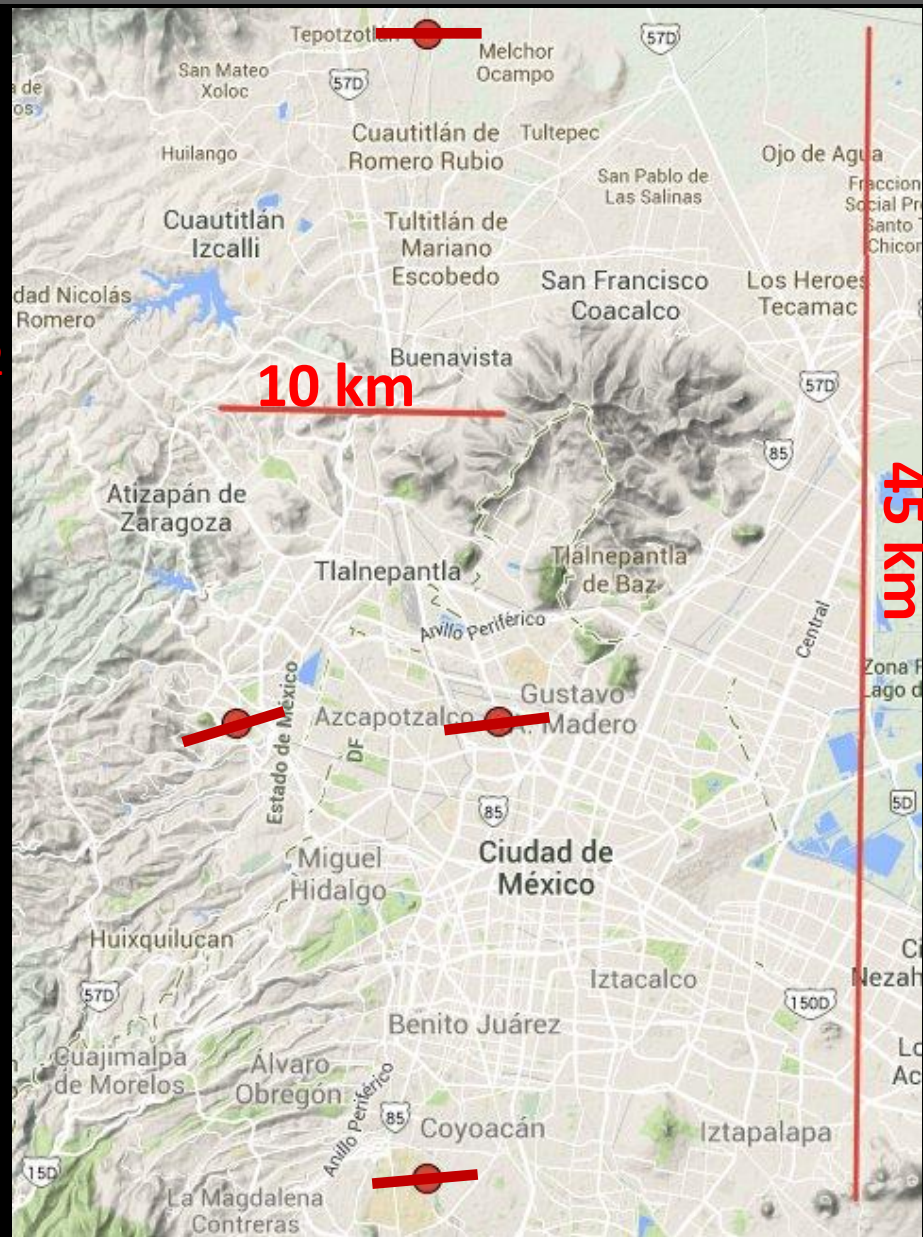
$(2 \times 2 \times 9)$ angles + zenith
1 scan ~ 5 min



Arne Krueger



E. Josue Arellano H.

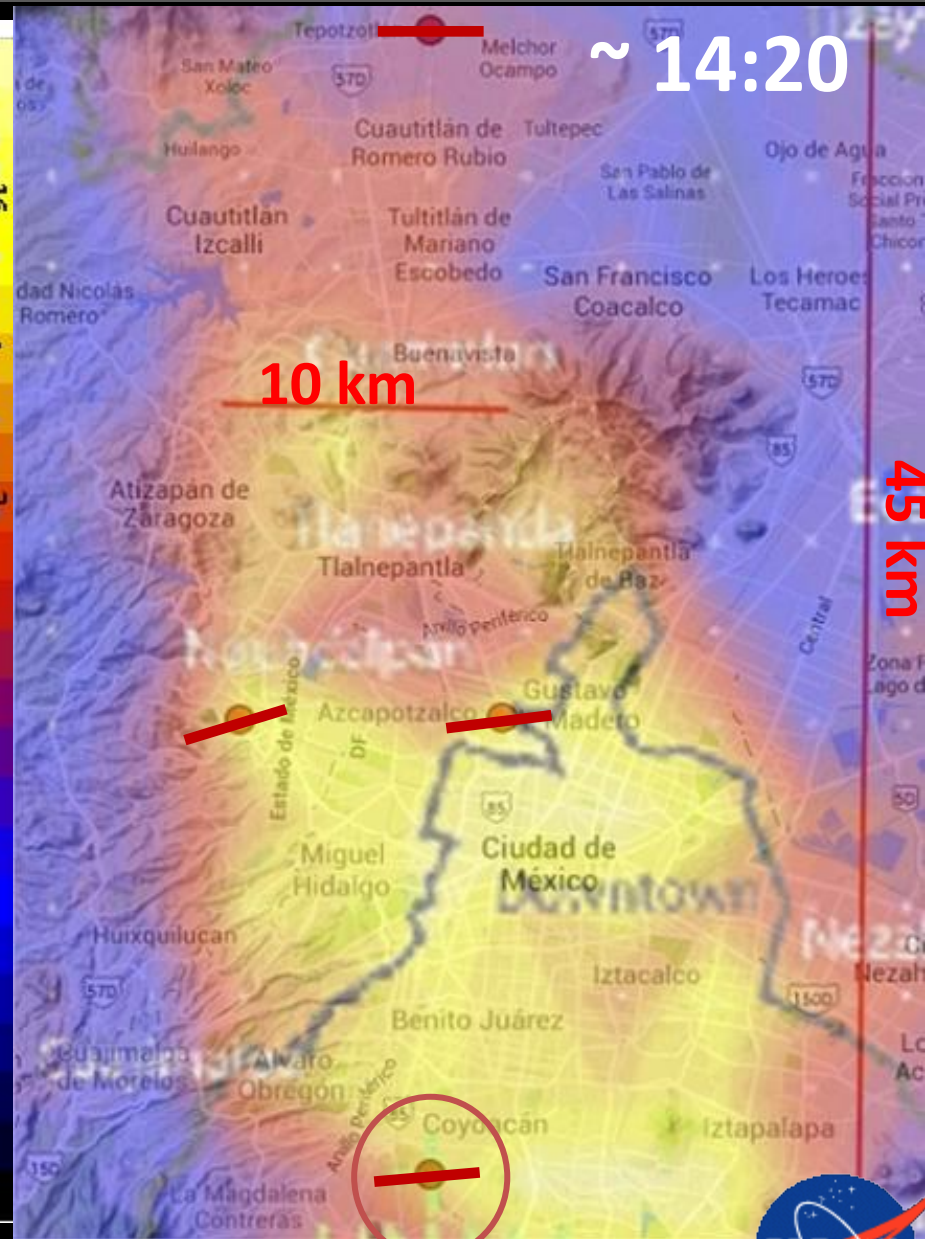


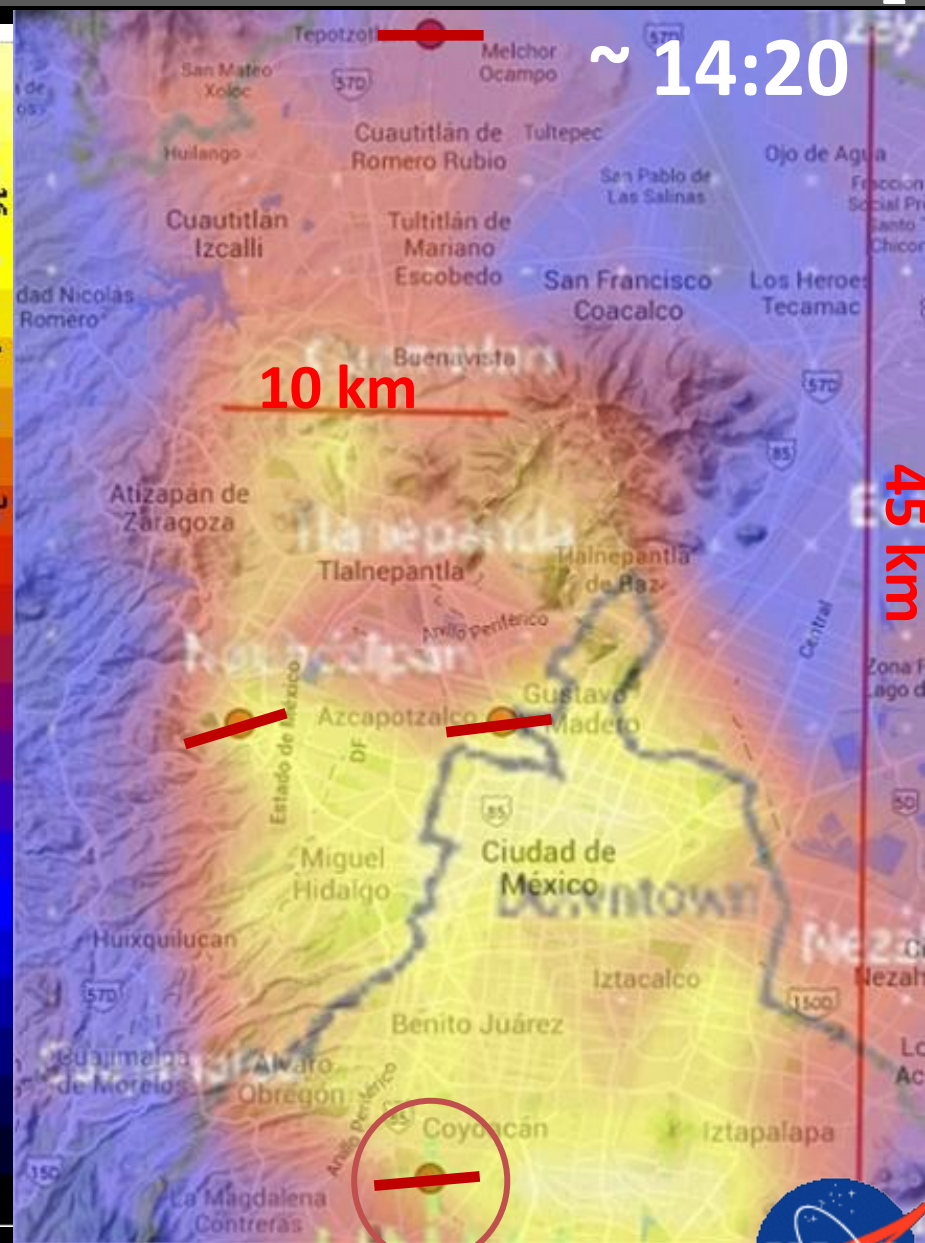
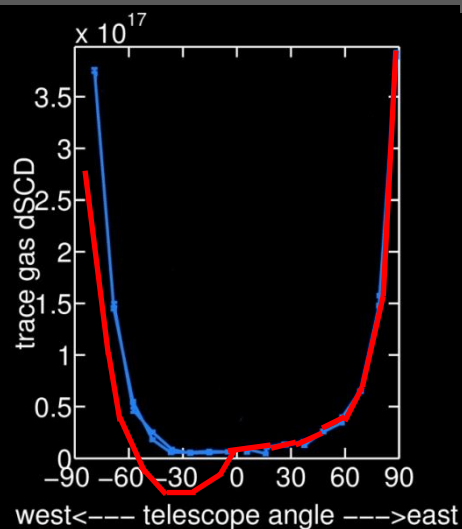
0

10 km

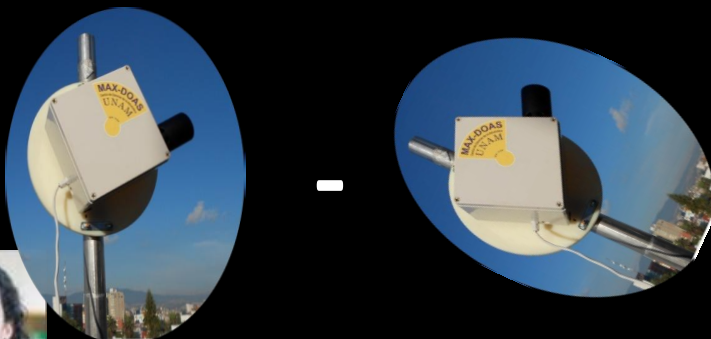
45 km

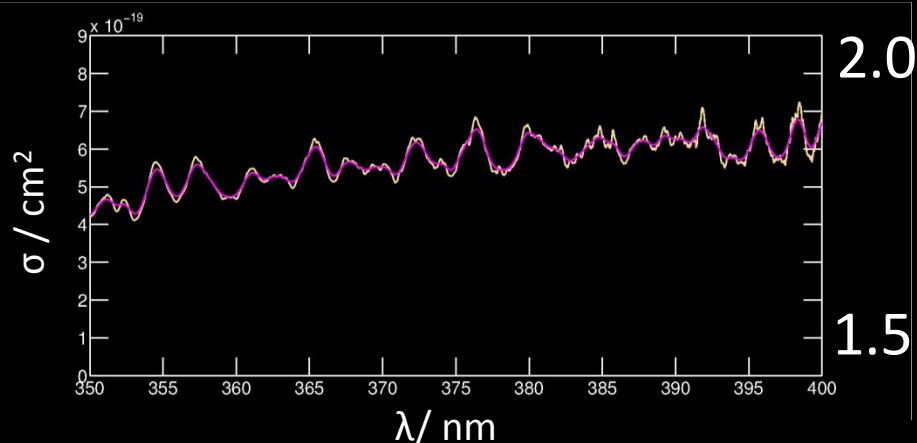
(2 x 2 x 9) angles + zenith
1 scan ~ 5 min





(2 x 2 x 9) angles + zenith
1 scan ~ 5 min
horizontal homogeneity?



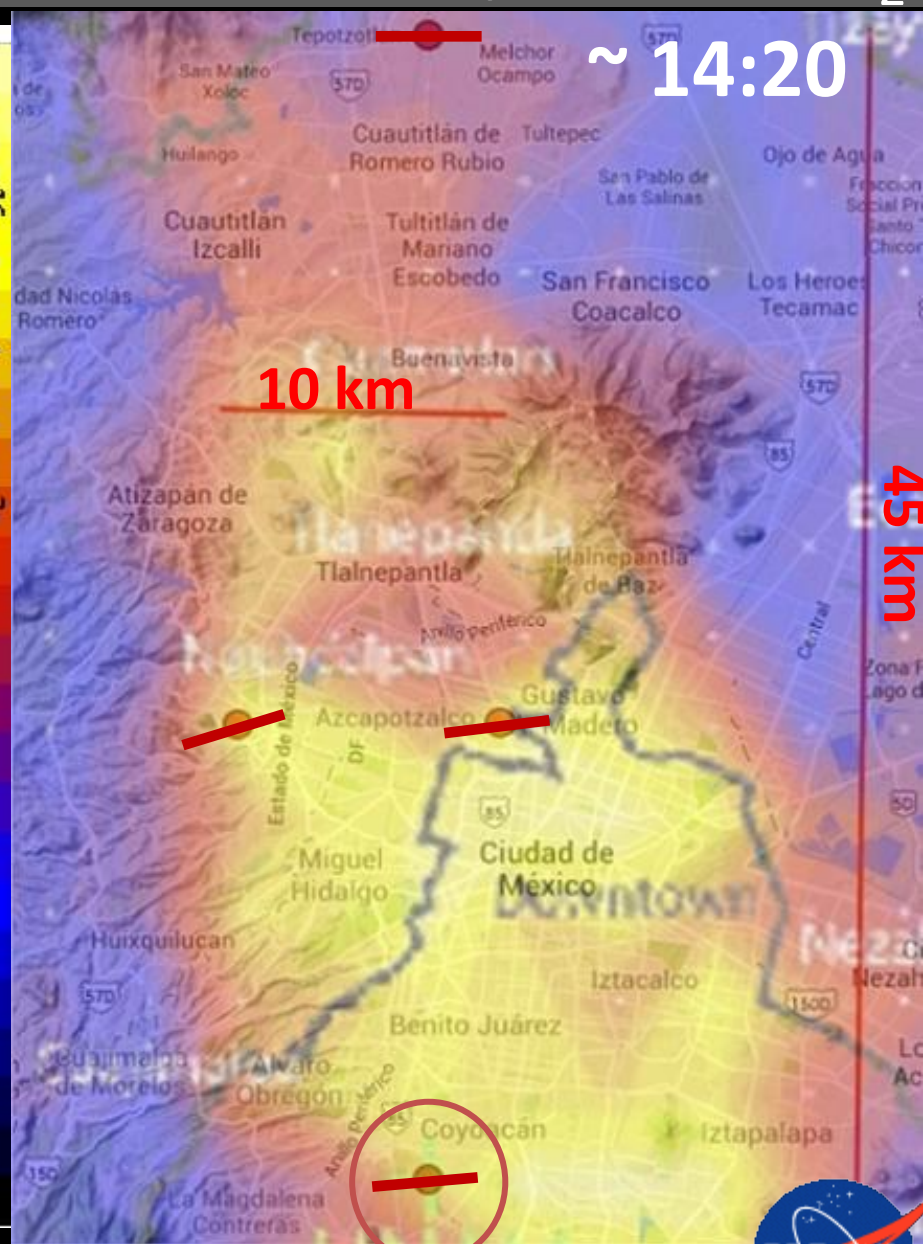


(2 x 2 x 9) angles + zenith
 1 scan ~ 5 min
 horizontal homogeneity?
 resolved structure

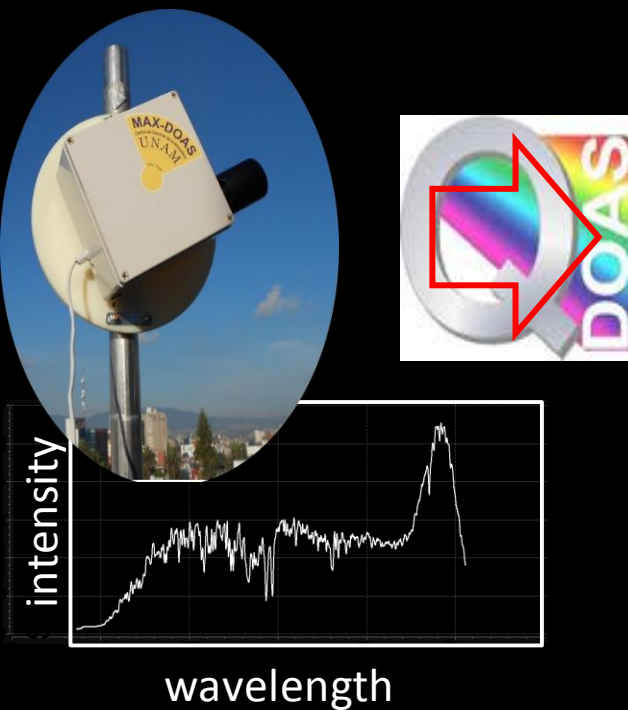
1.0

0.5

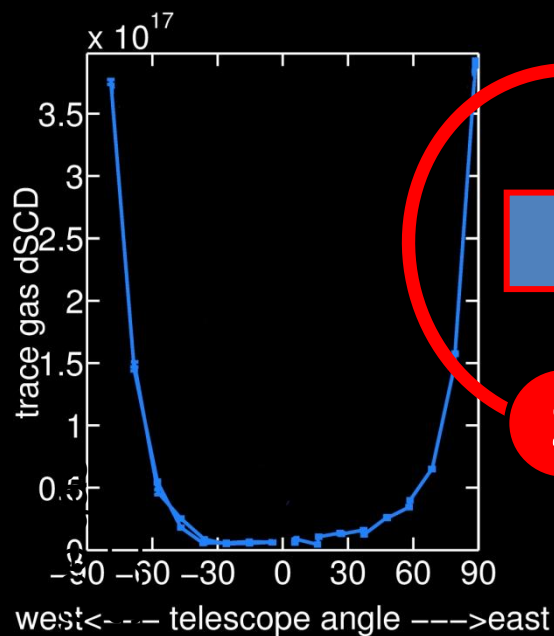
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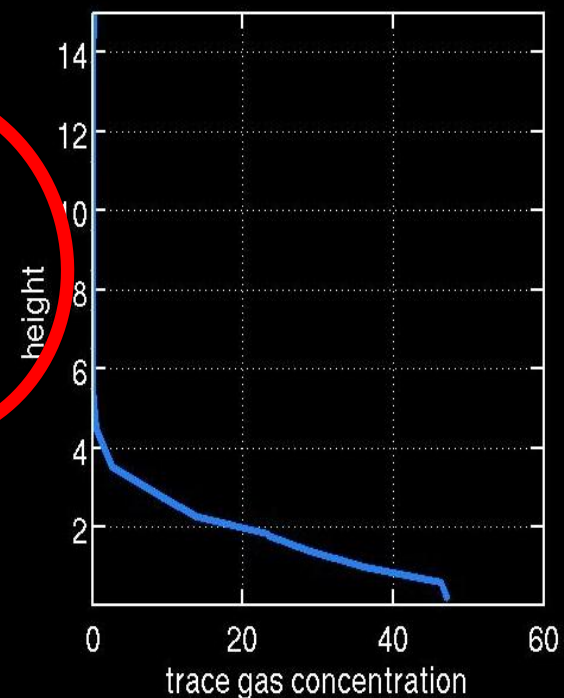
Spectra

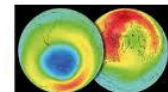
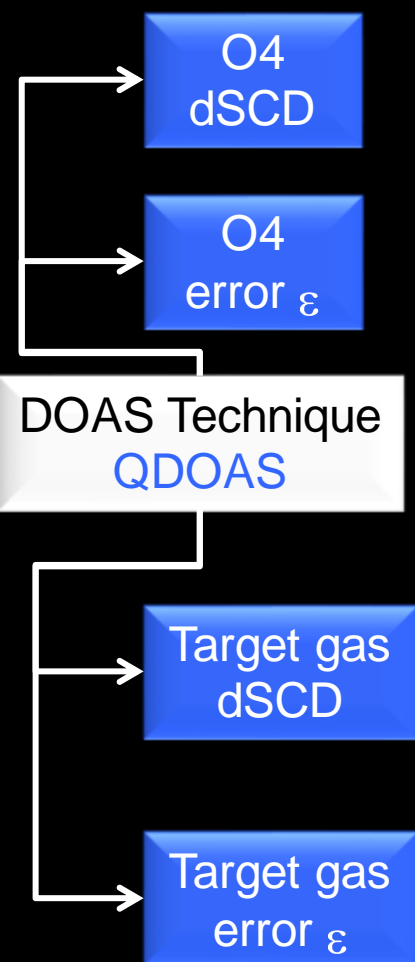


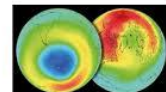
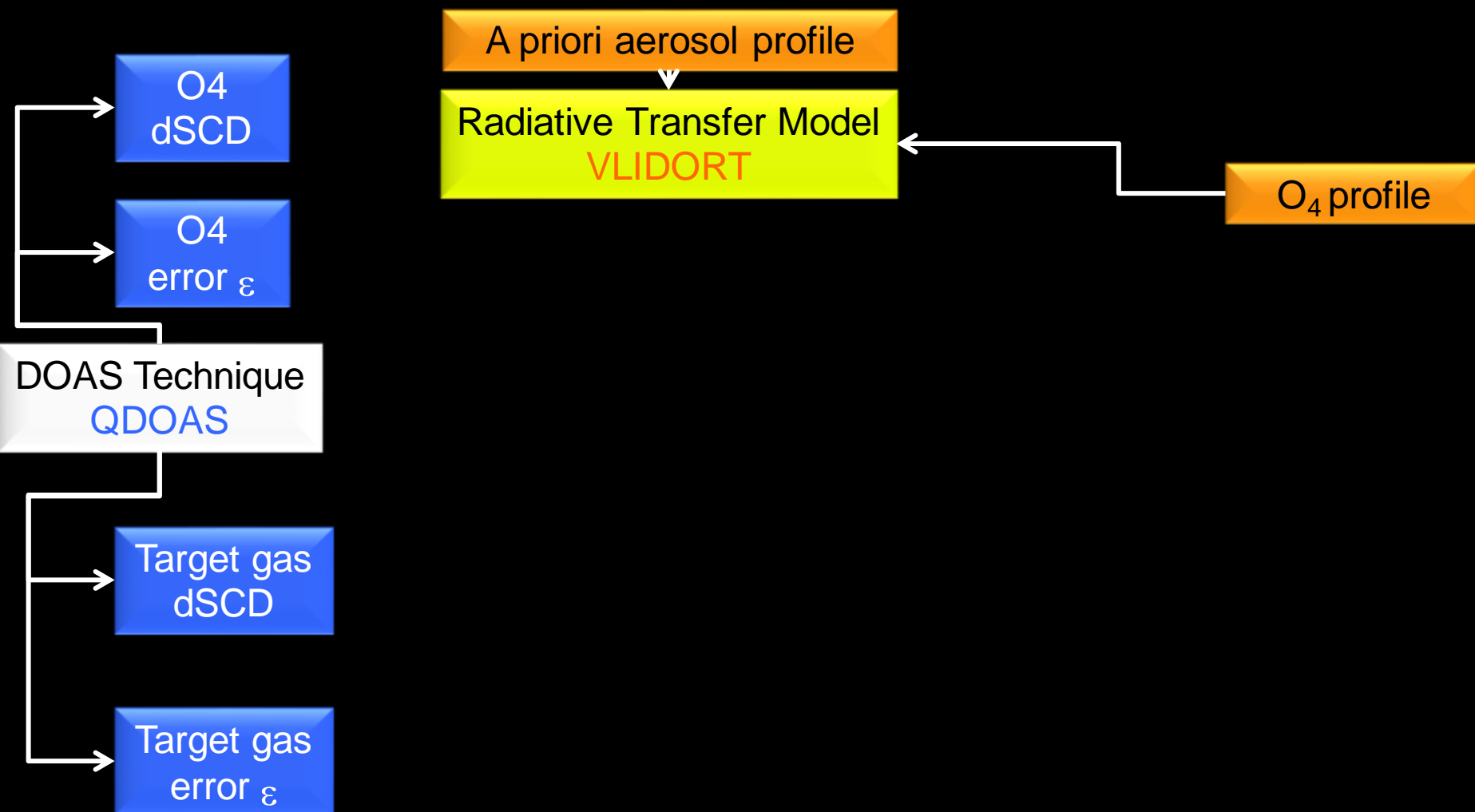
dSCD

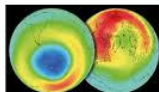
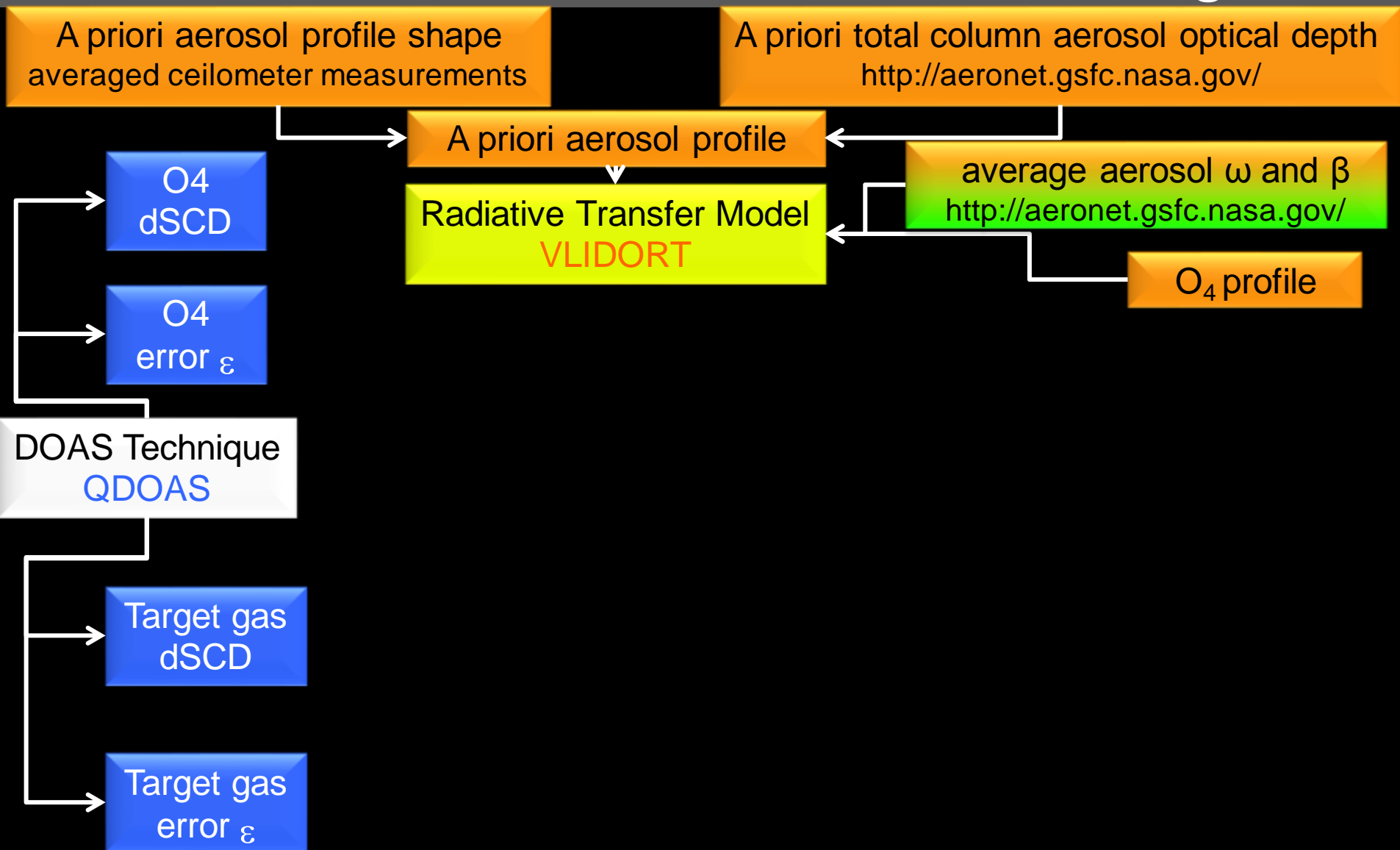


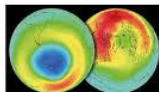
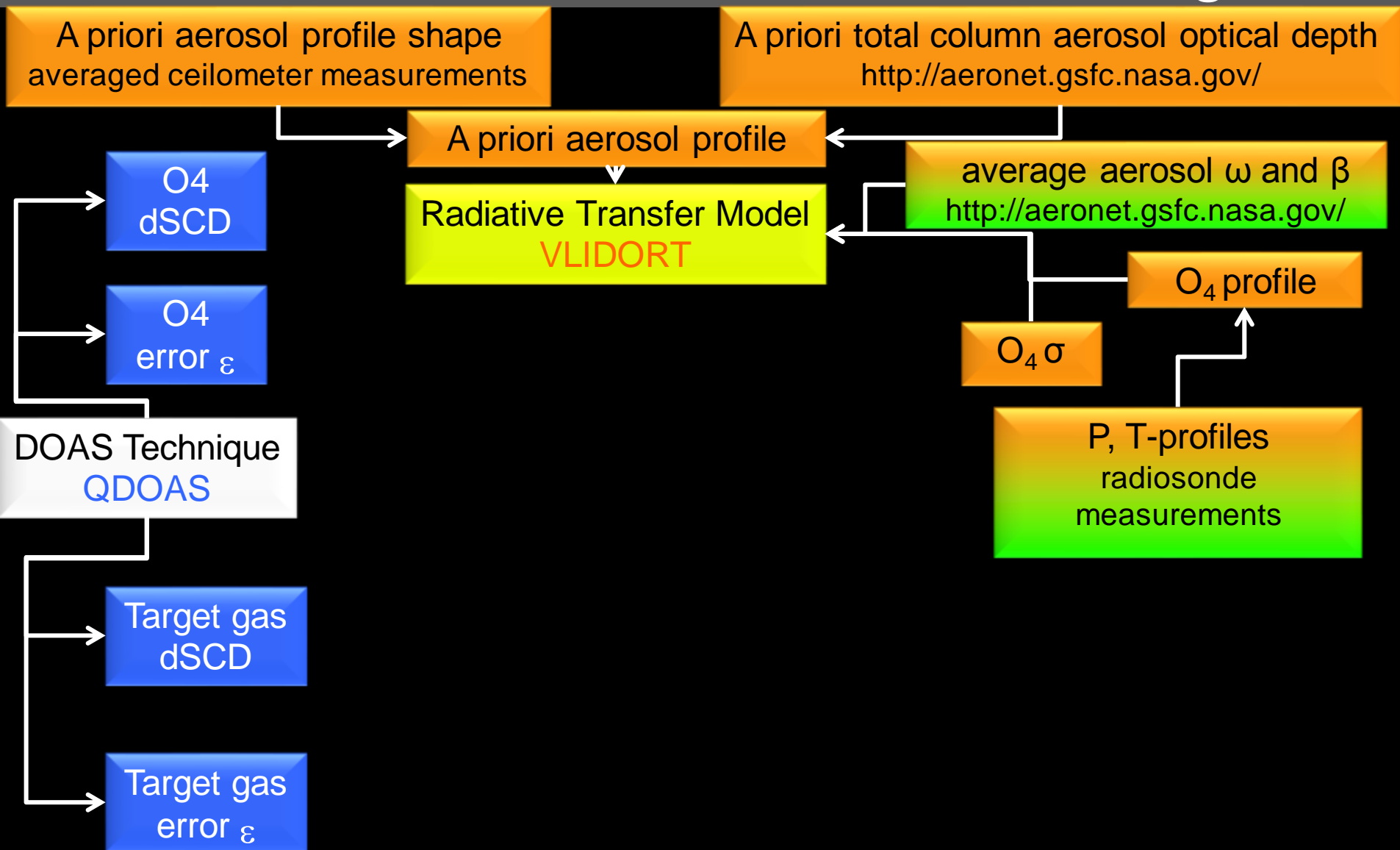
trace gas profile

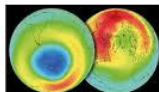
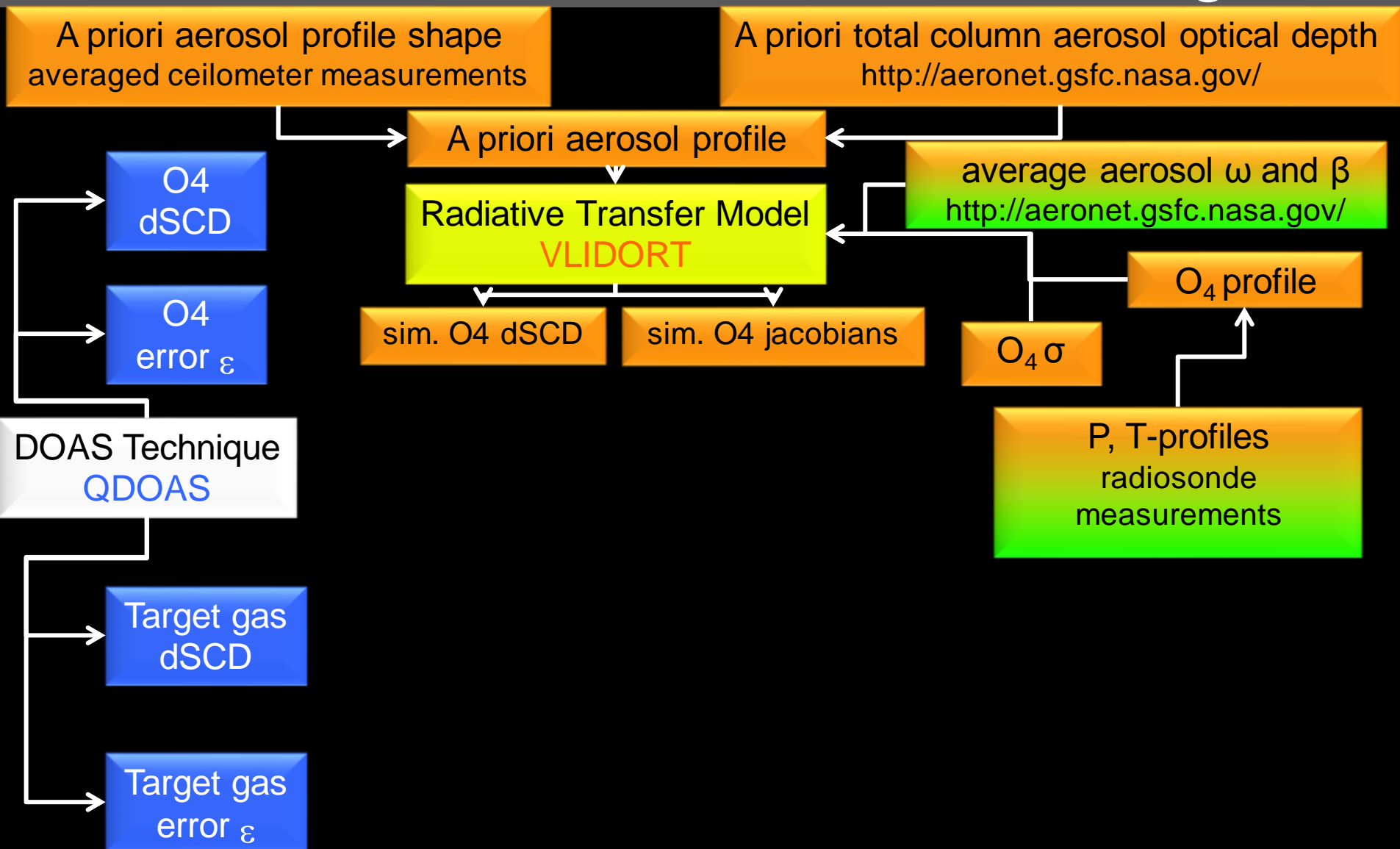


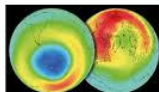
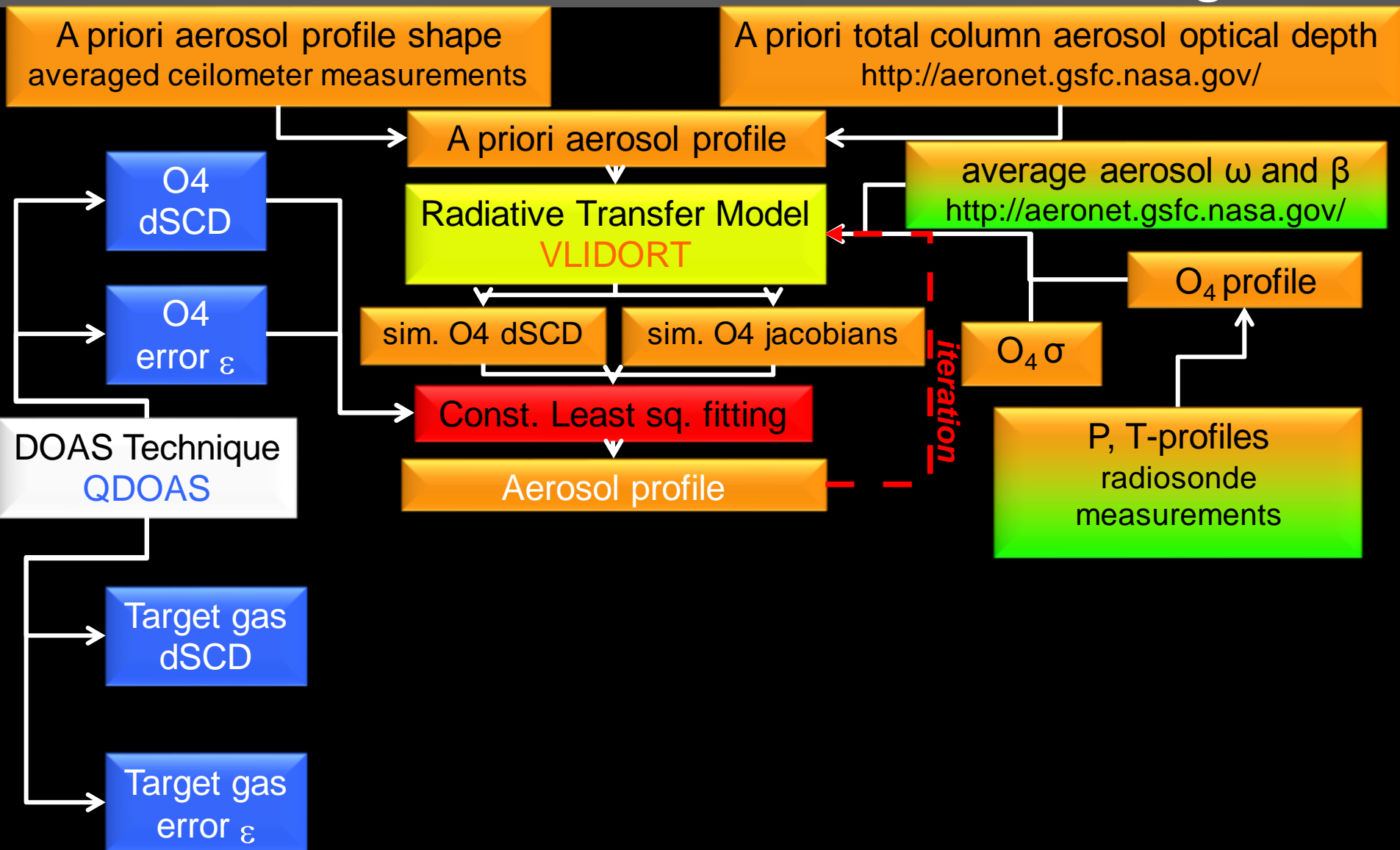


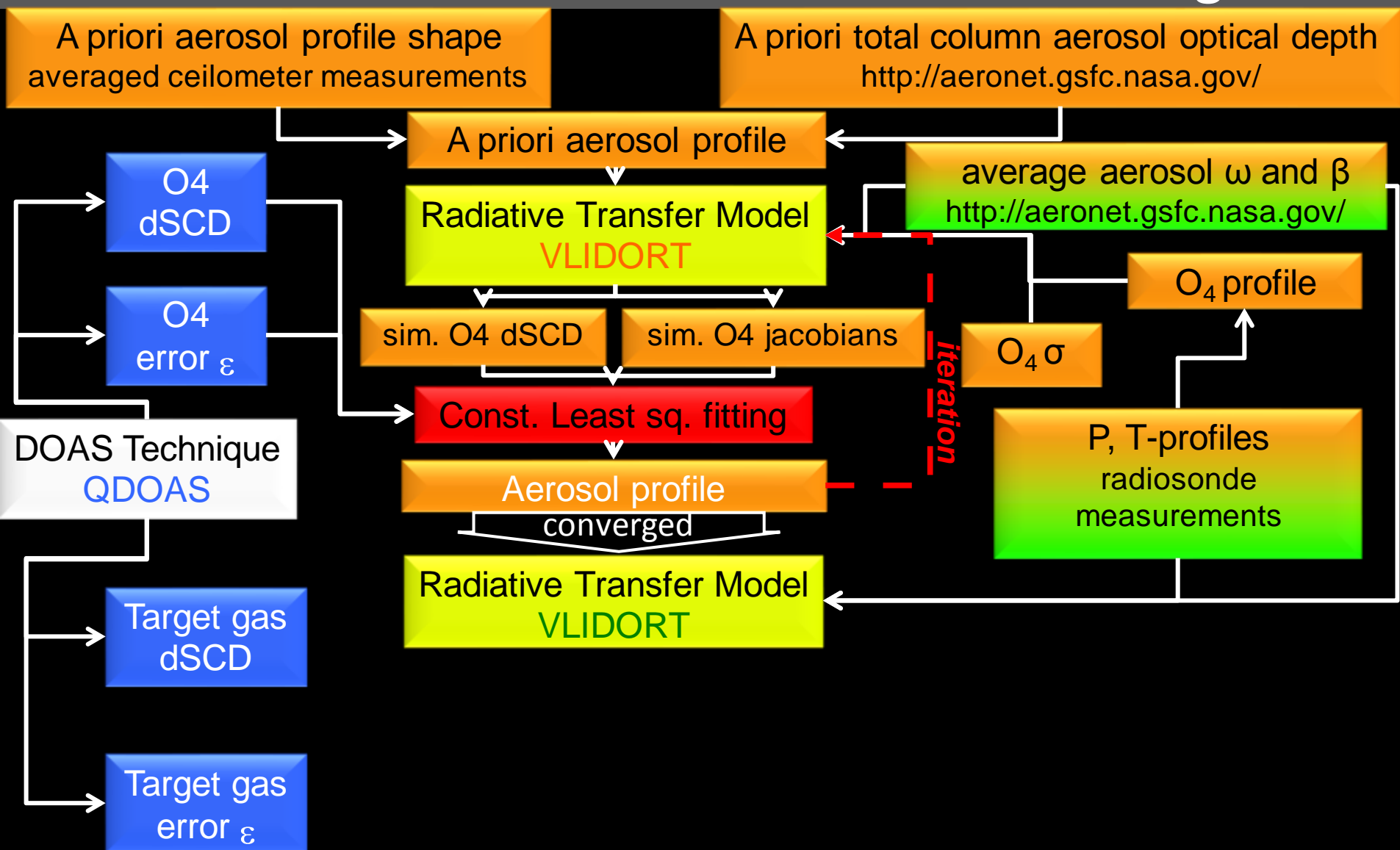


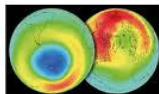
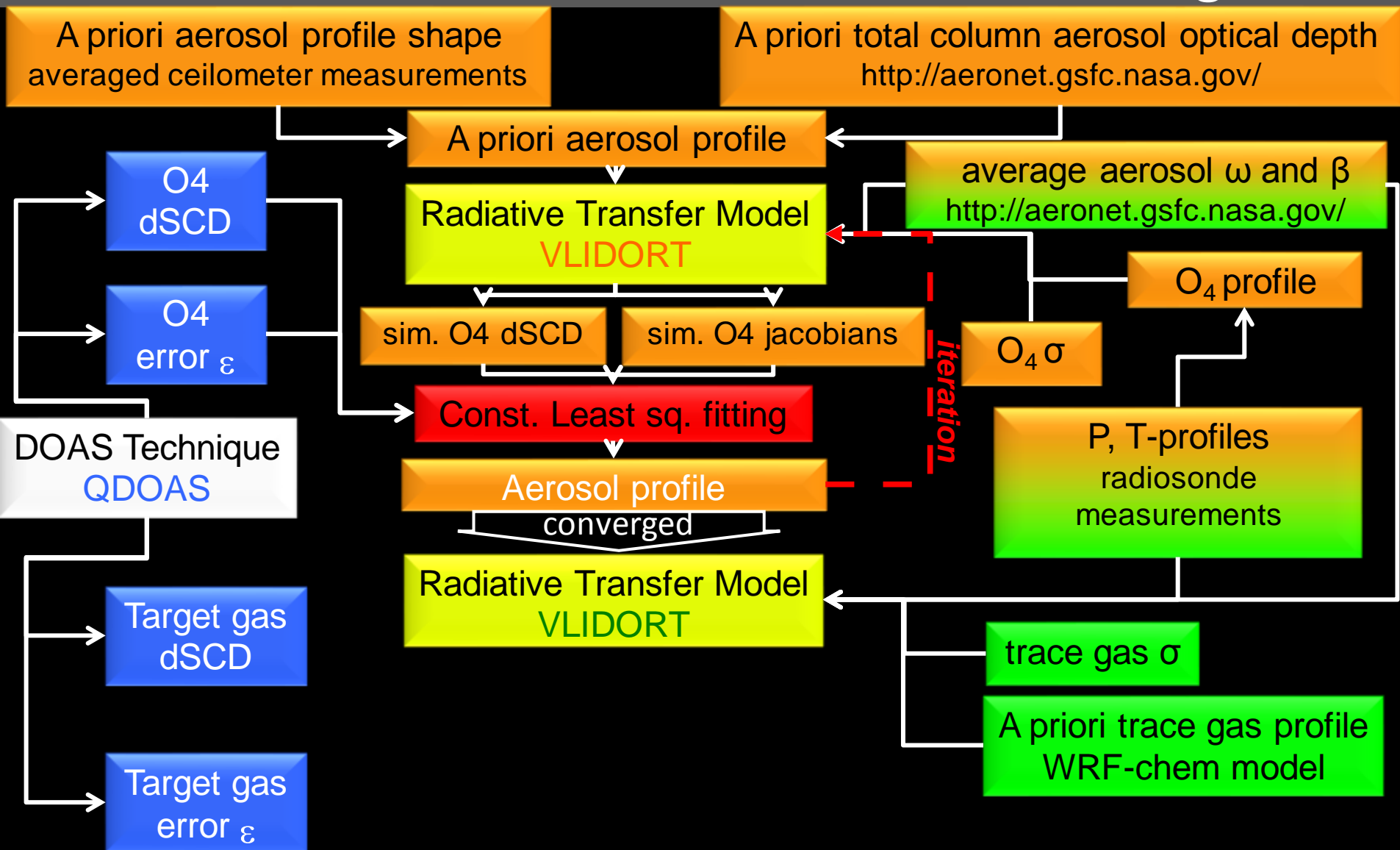


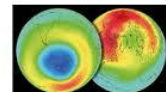
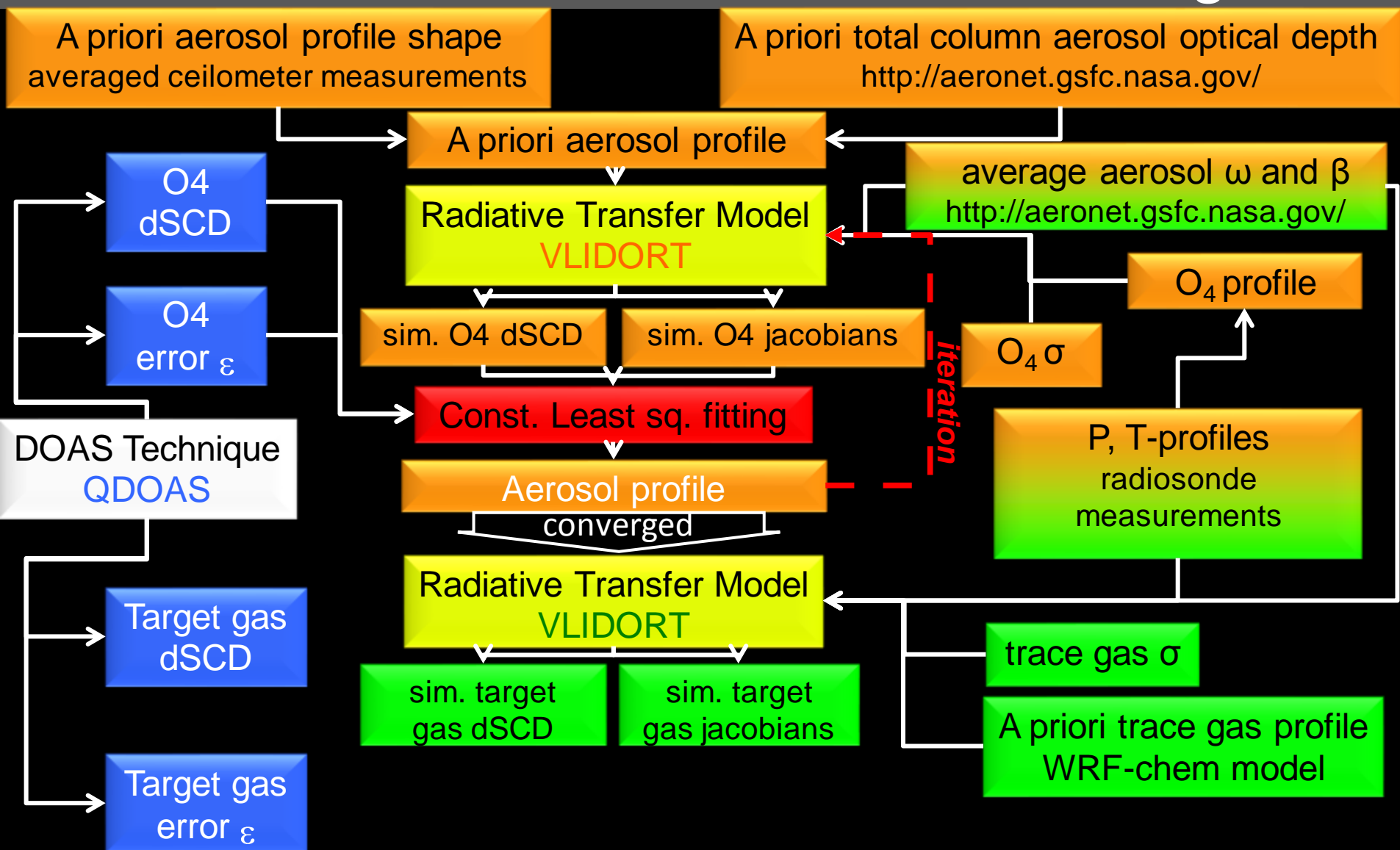


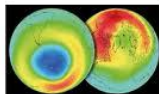
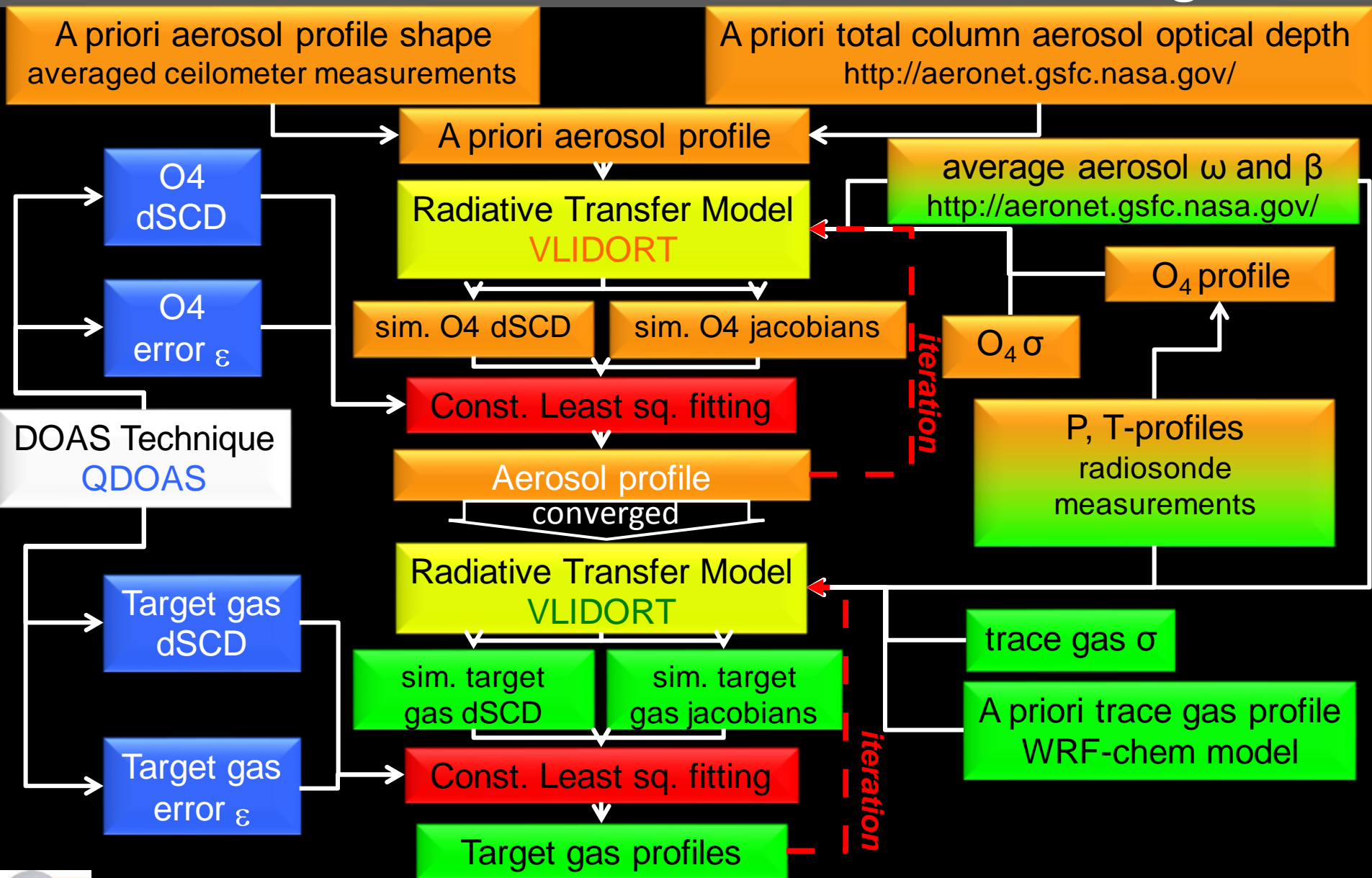


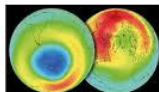
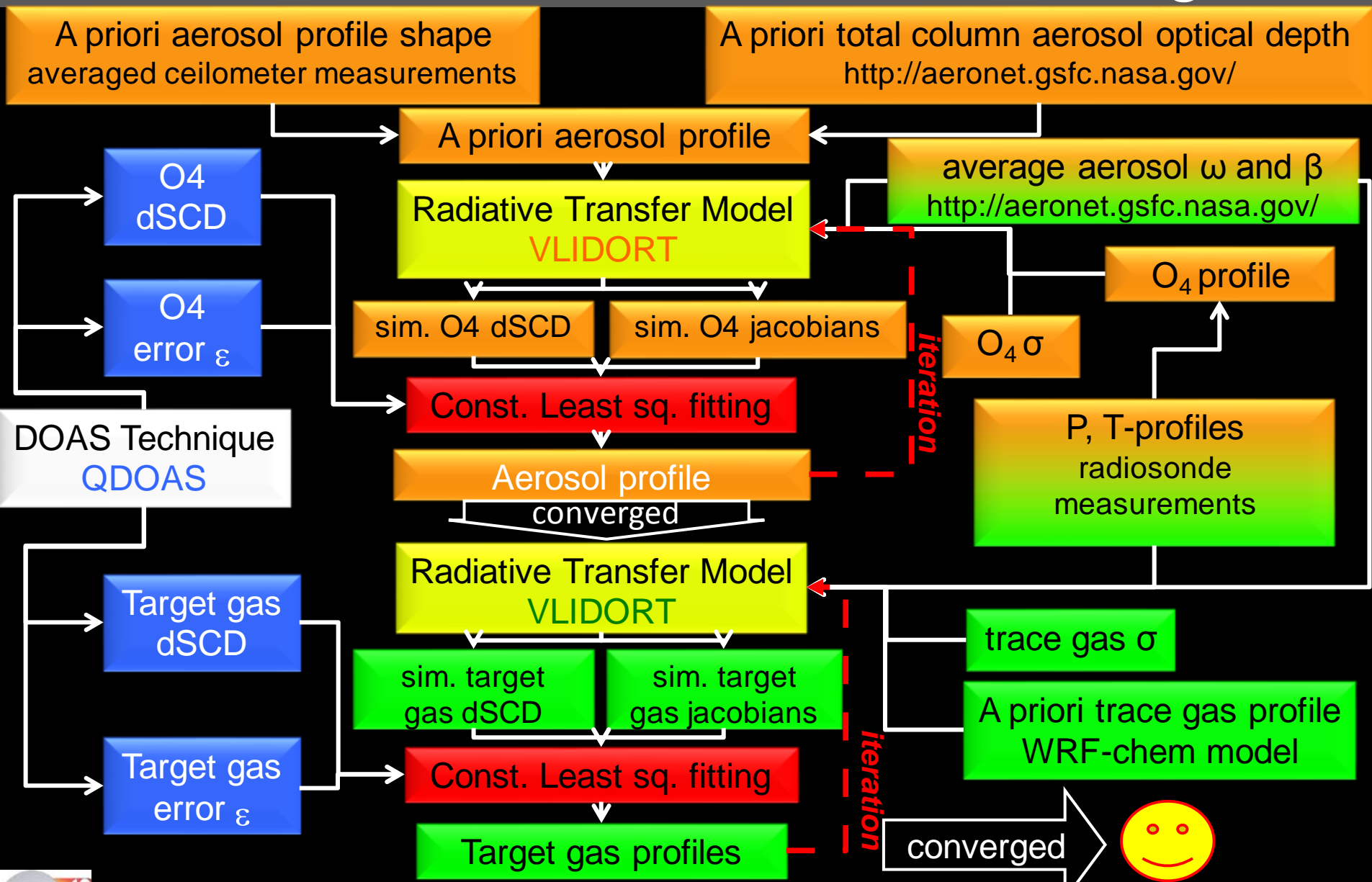












aerosols**trace gas: NO₂, HCHO**

Wolfgang M H Stremme
Alejandro Bezanilla M.
Michel A. Grutter M.

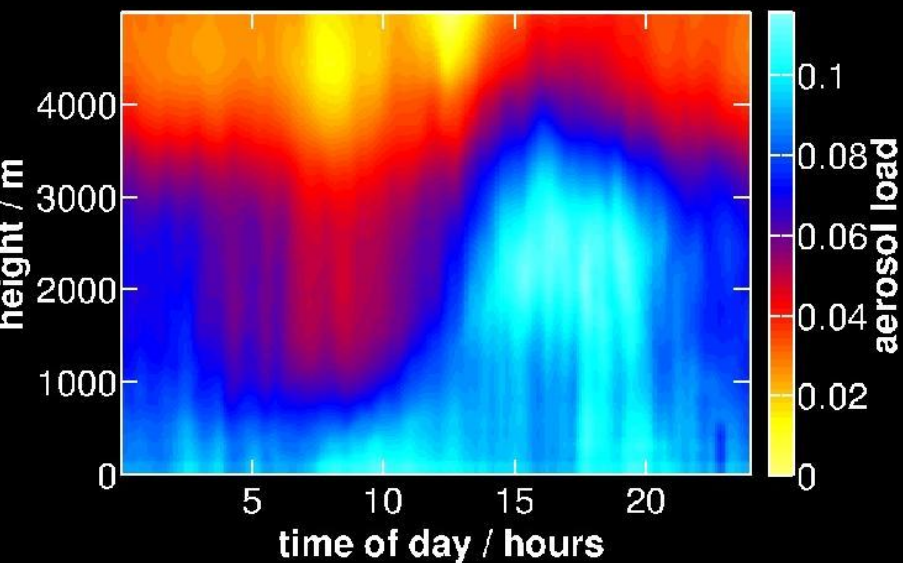


J. Agustin Garcia R.



aerosols

averaged ceilometer data

**trace gas: NO₂, HCHO**

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Alejandro Bezanilla M.
Michel A. Grutter M.

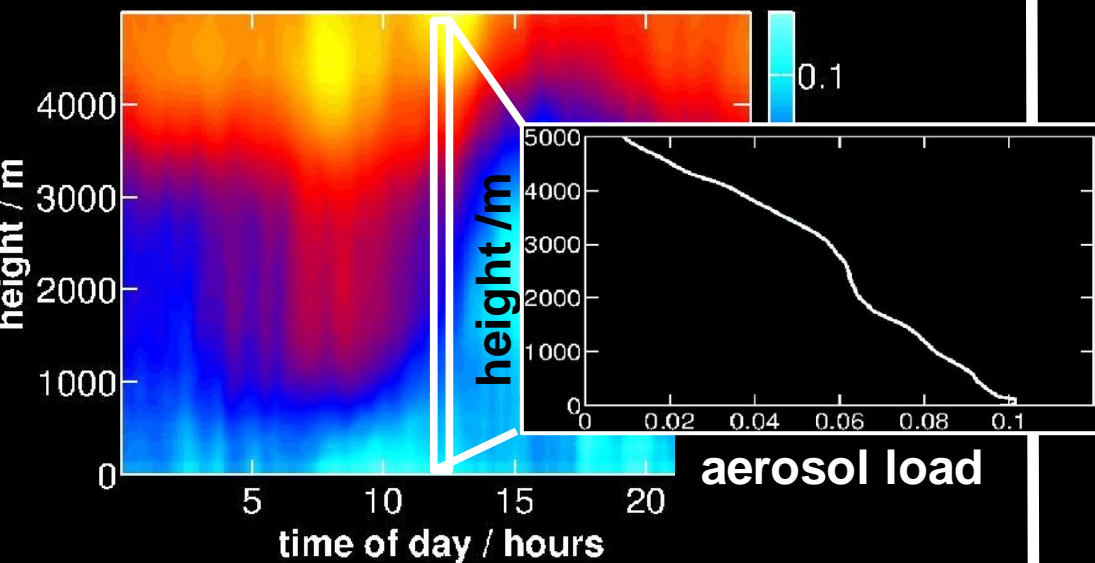


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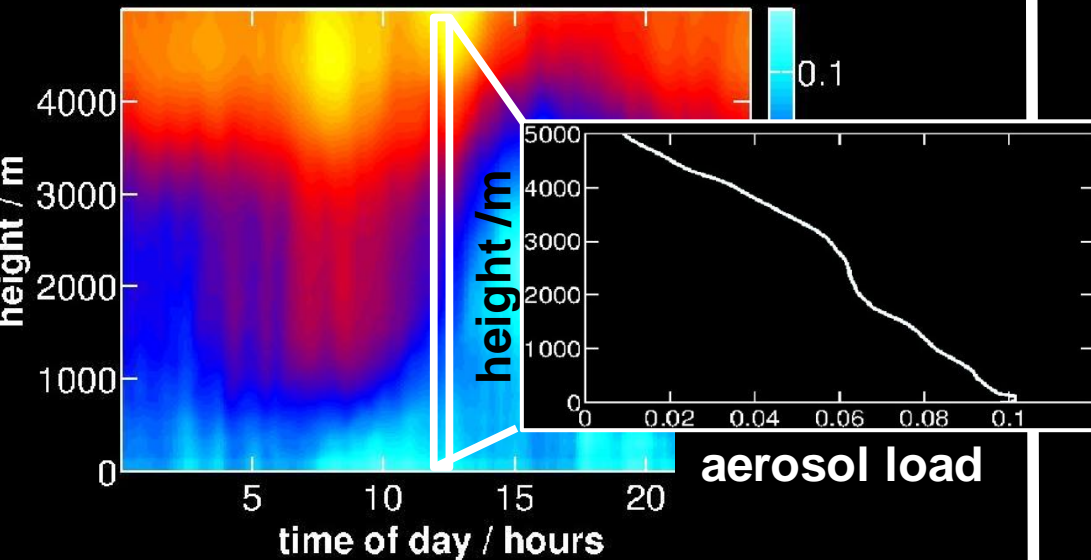


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aerosols

averaged ceilometer data

**AERONET**

aerosol optical depth τ
 single scattering albedo ω
 asymmetry parameter $g \rightarrow \beta$

trace gas: NO₂, HCHO

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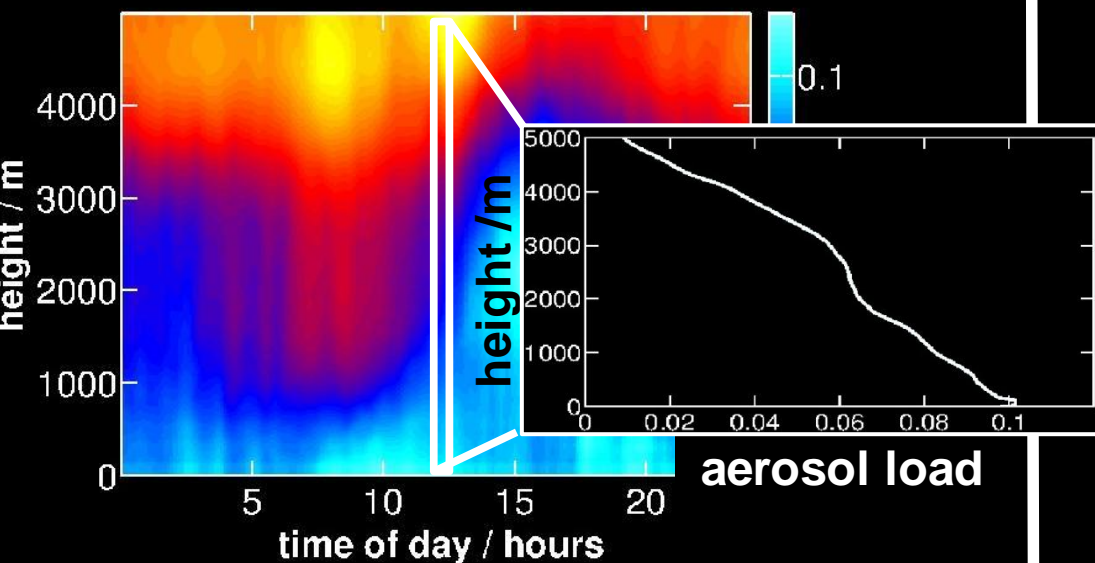


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aerosols

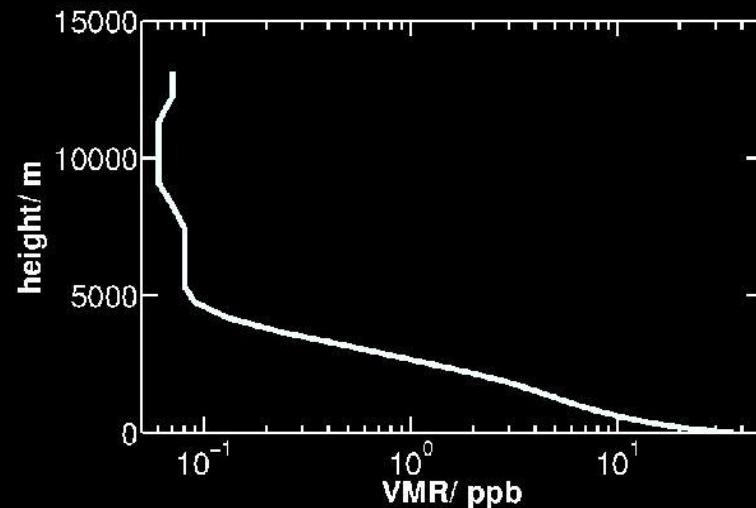
averaged ceilometer data

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av. WRF-chem model data



Wolfgang M H Stremme
 Alejandro Bezanilla M.
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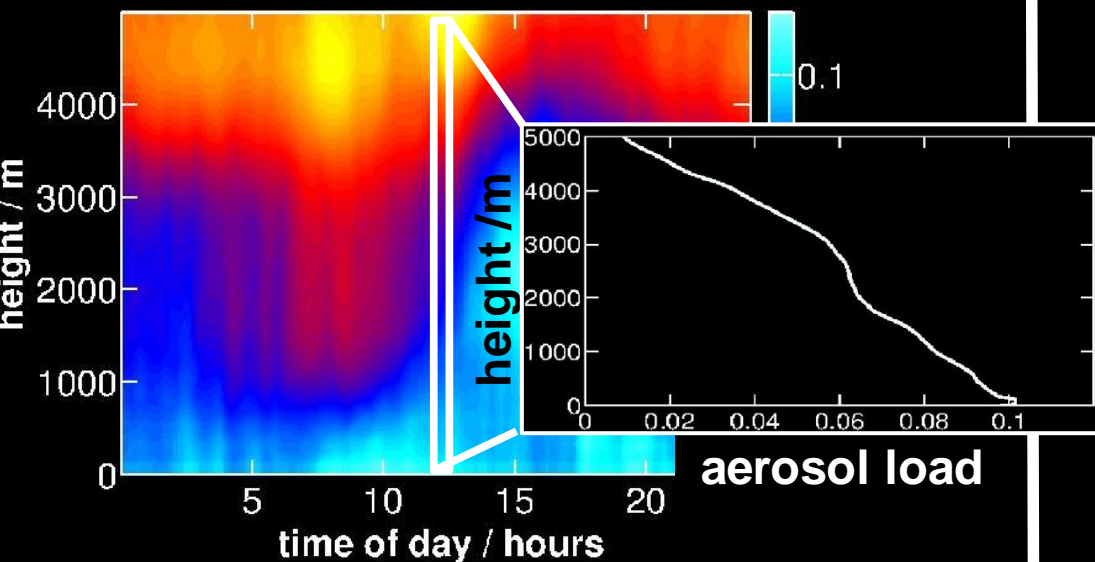


J. Agustin Garcia R.



aerosols

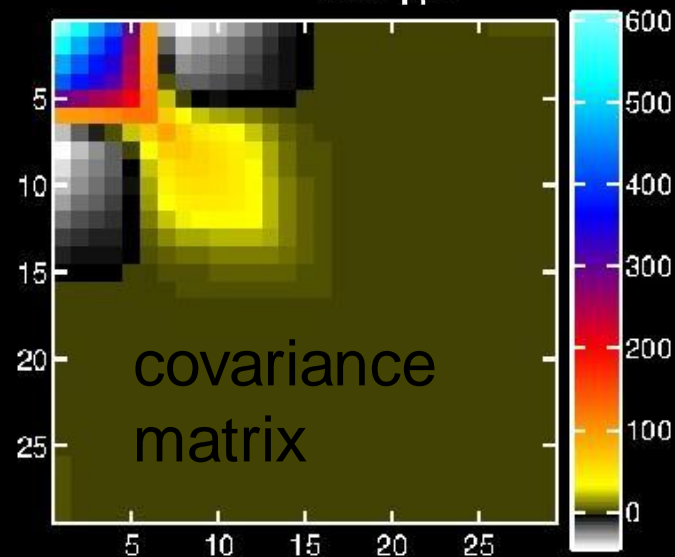
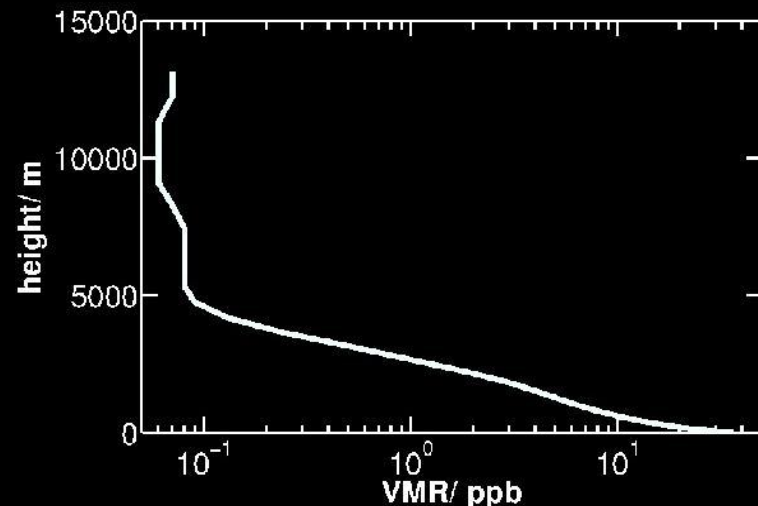
averaged ceilometer data

**AERONET**

aerosol optical depth τ
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trace gas: NO₂, HCHO

av. WRF-chem model data



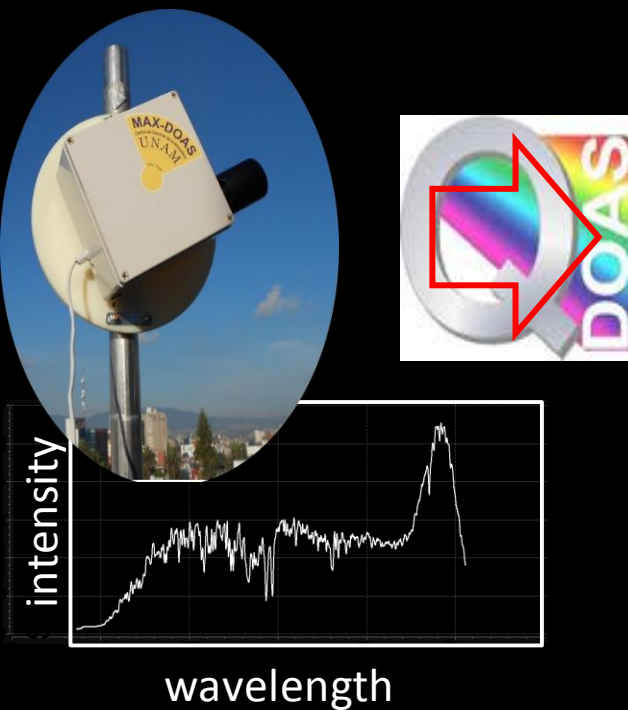
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 Alejandro Bezanilla M.
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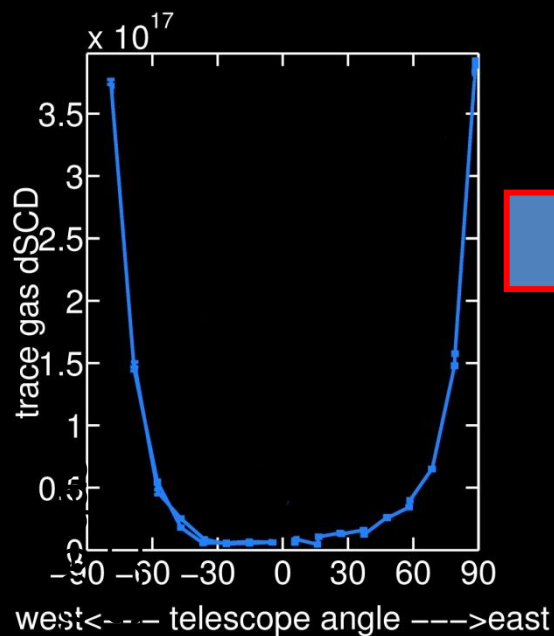
J. Agustin Garcia R.



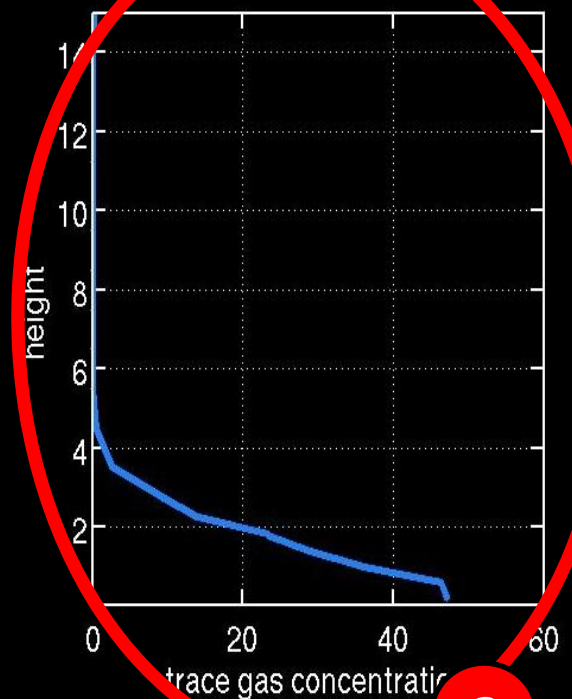
Spectra



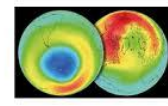
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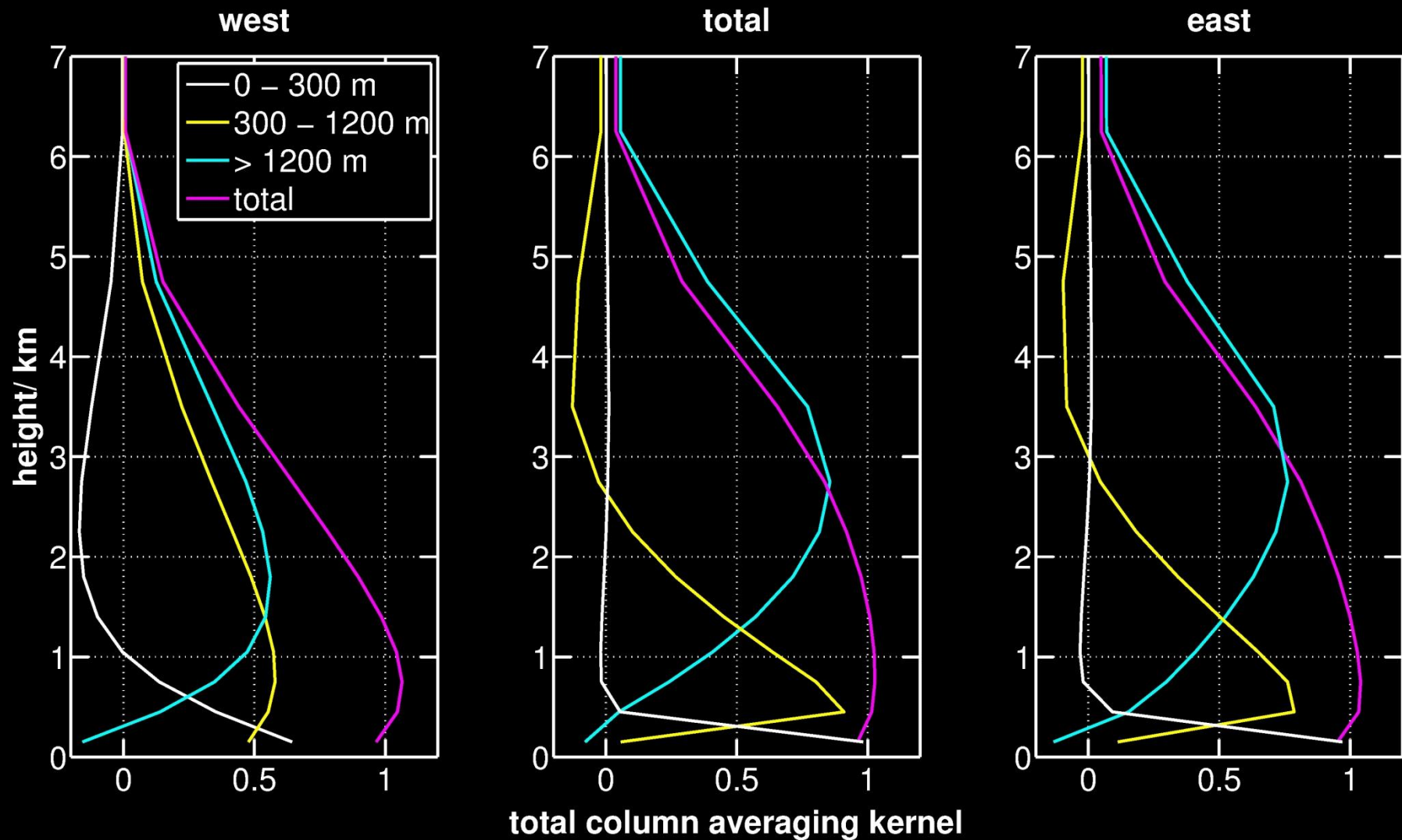


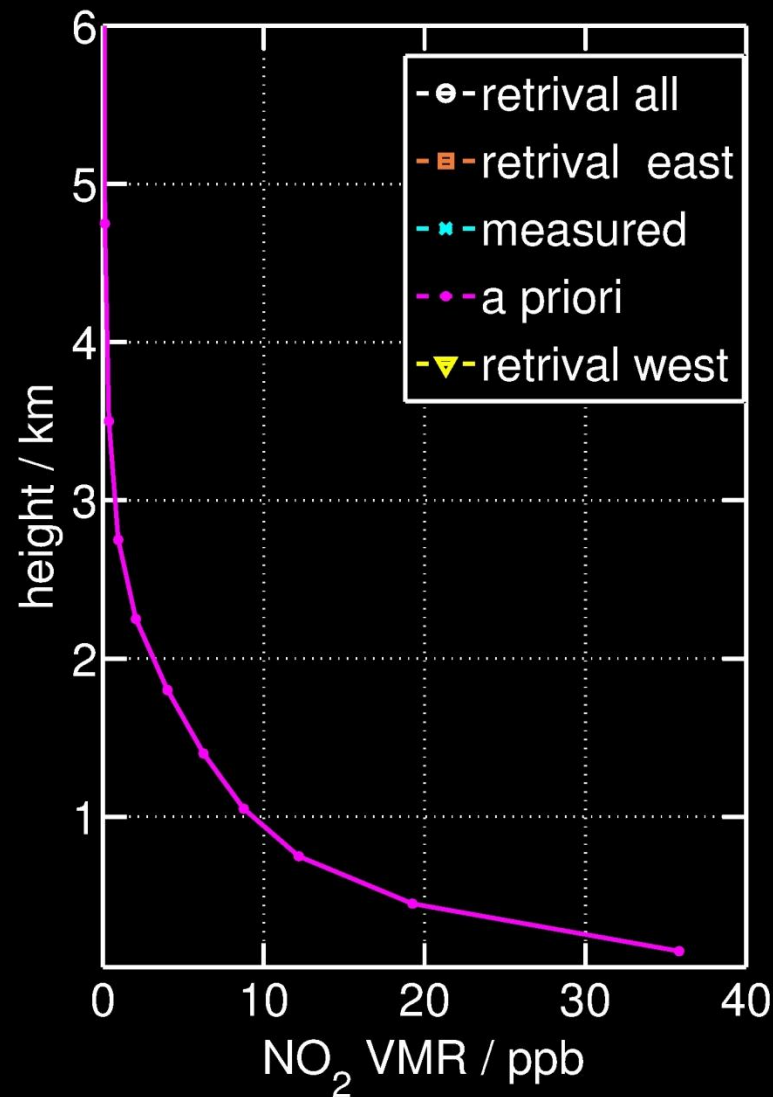
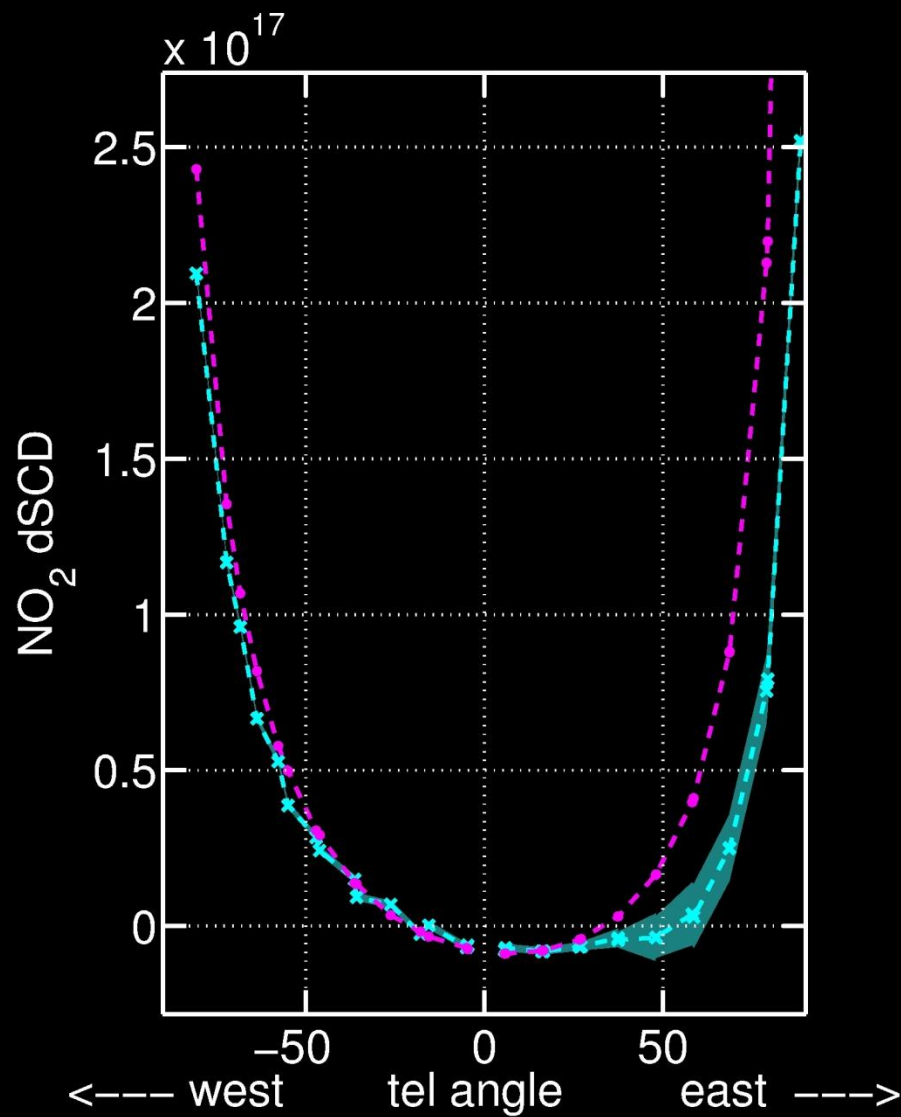
trace gas profile



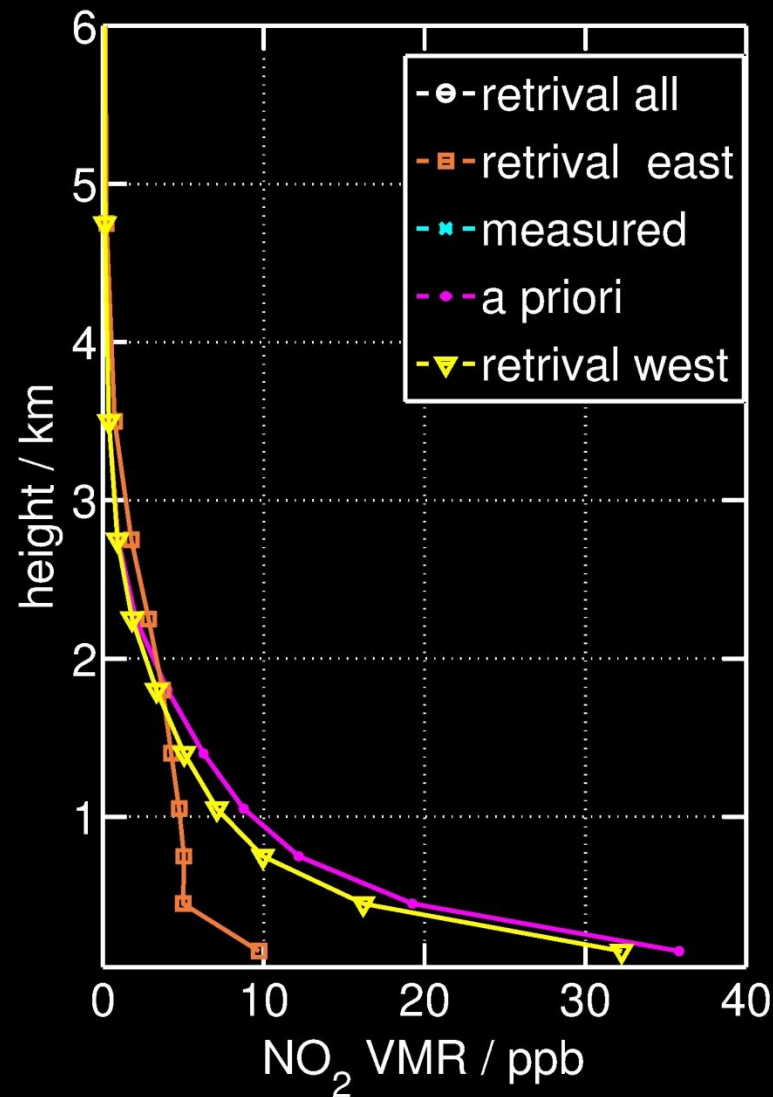
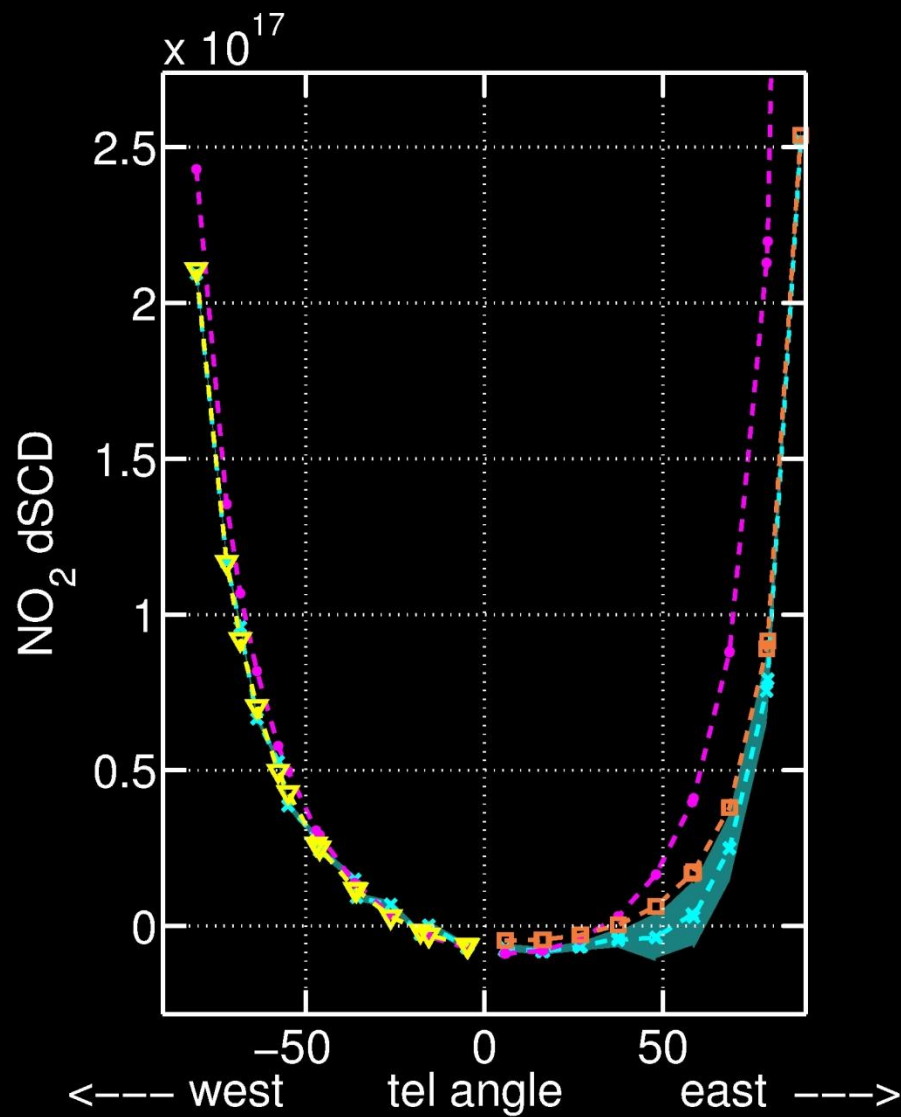
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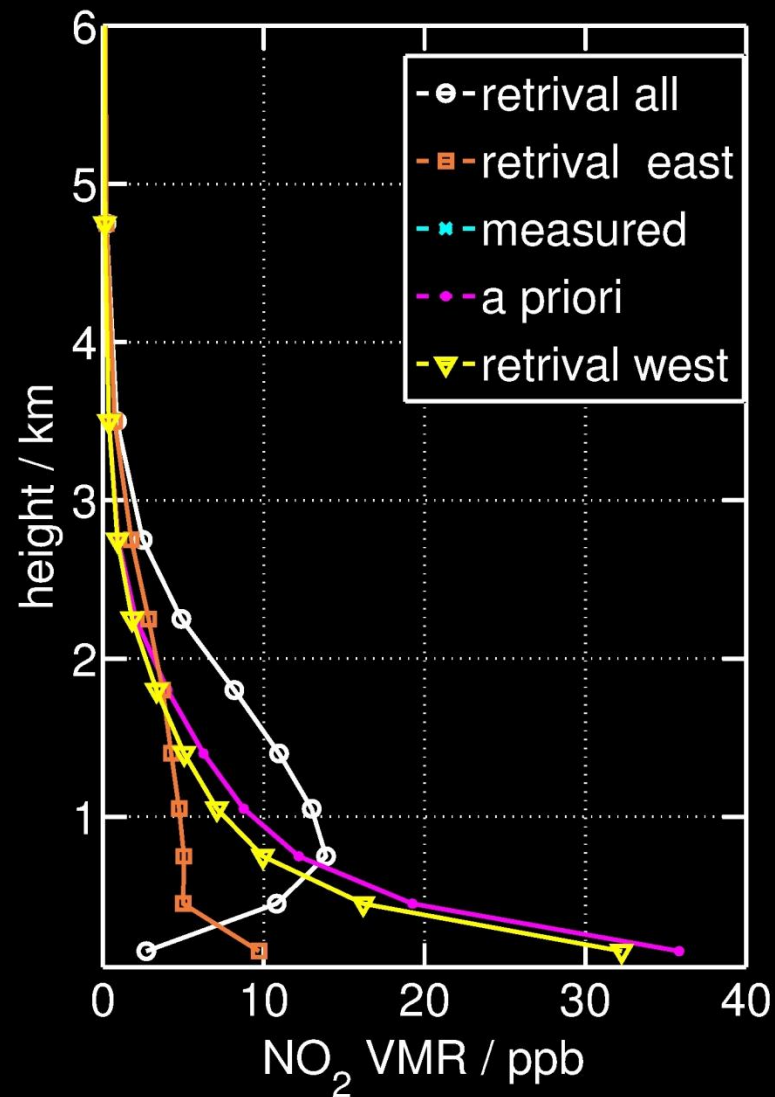
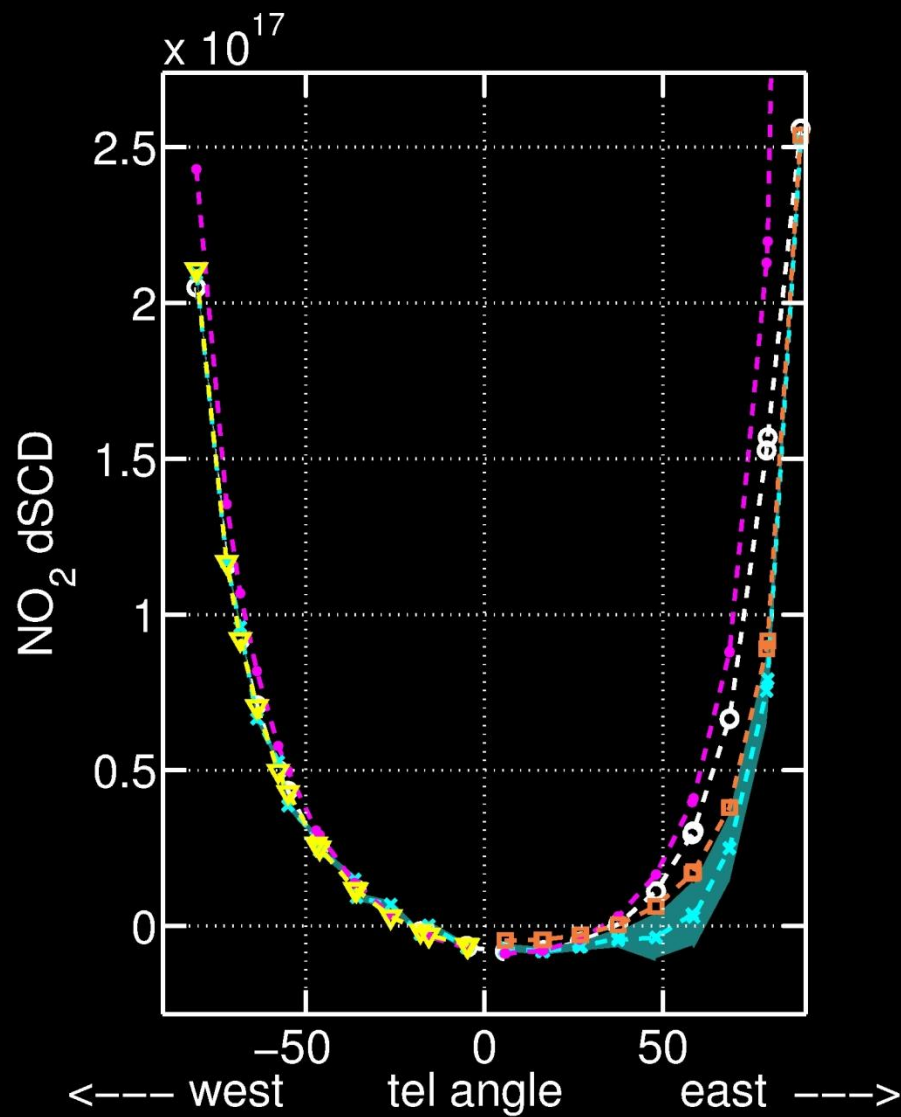




MORNING 10:15



MORNING 10:15



MORNING 10:15

