

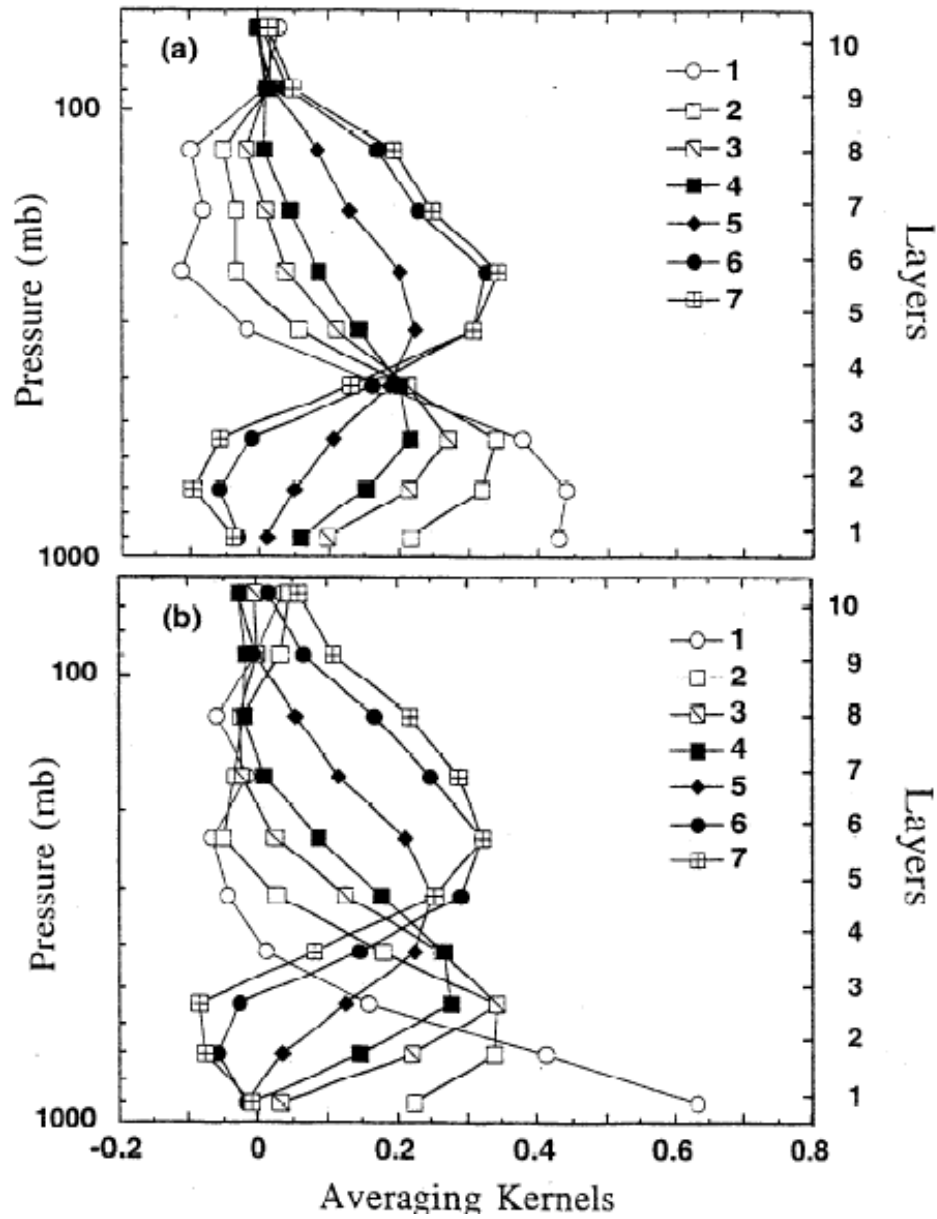
PHY2506

Atmospheric Data Assimilation

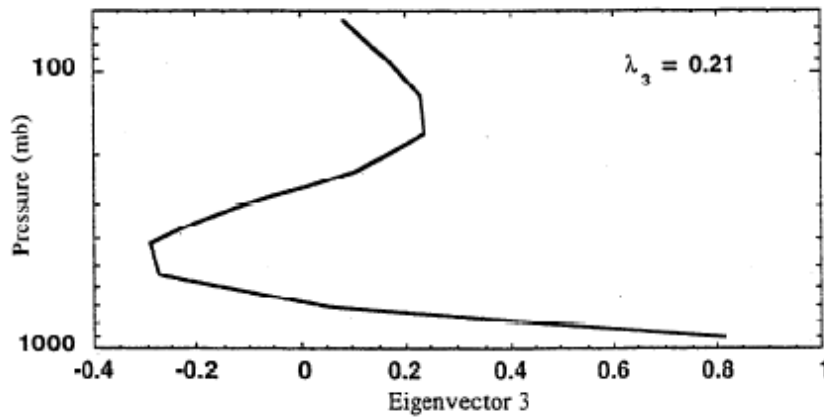
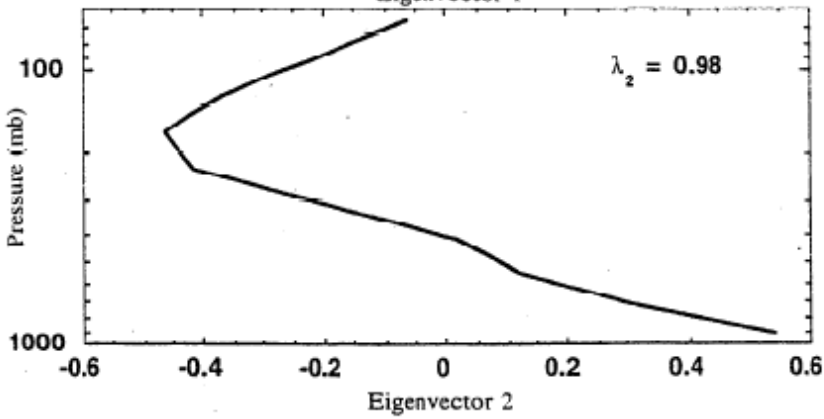
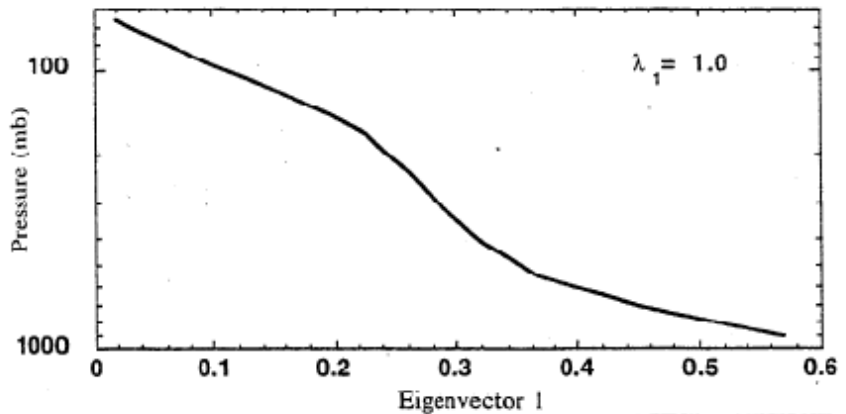
Lecture 5

Supplementary Slides

MOPITT Averaging Kernels



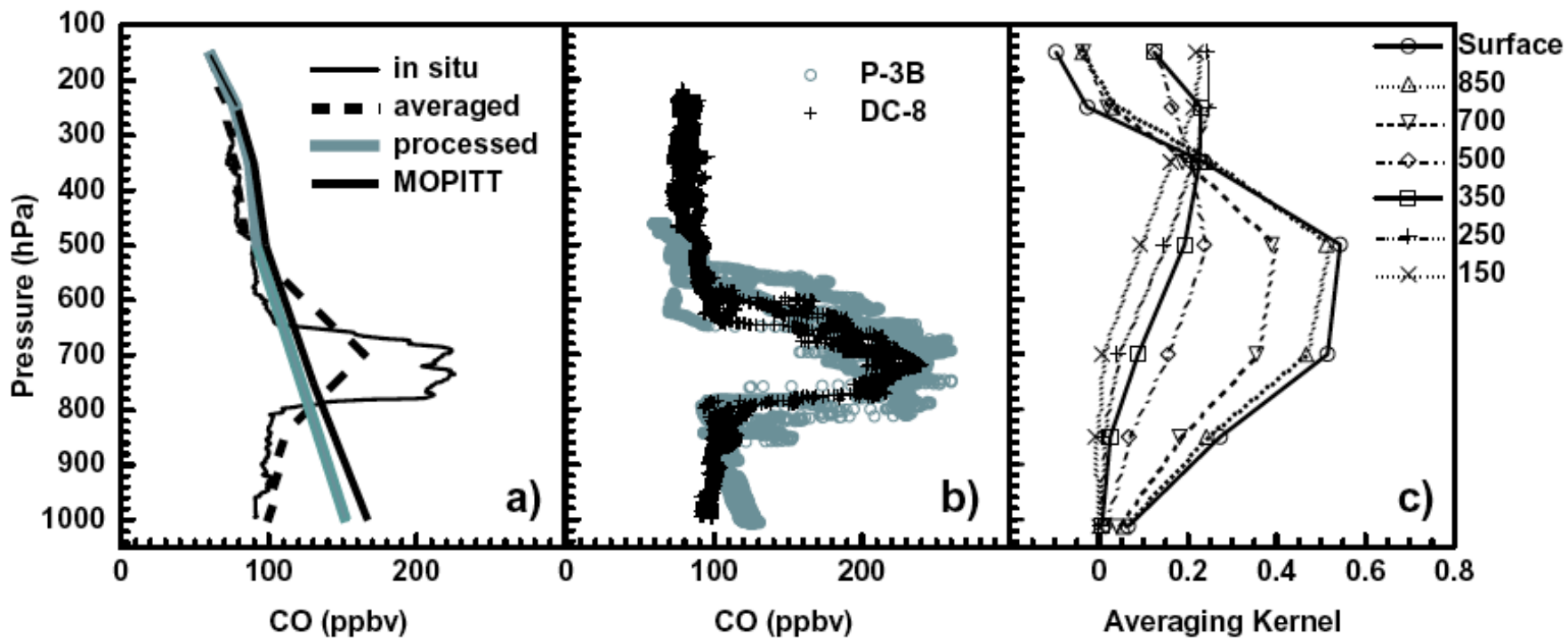
Eigenvectors of Averaging Kernel Matrix



Smoothing Effects of the Averaging Kernel

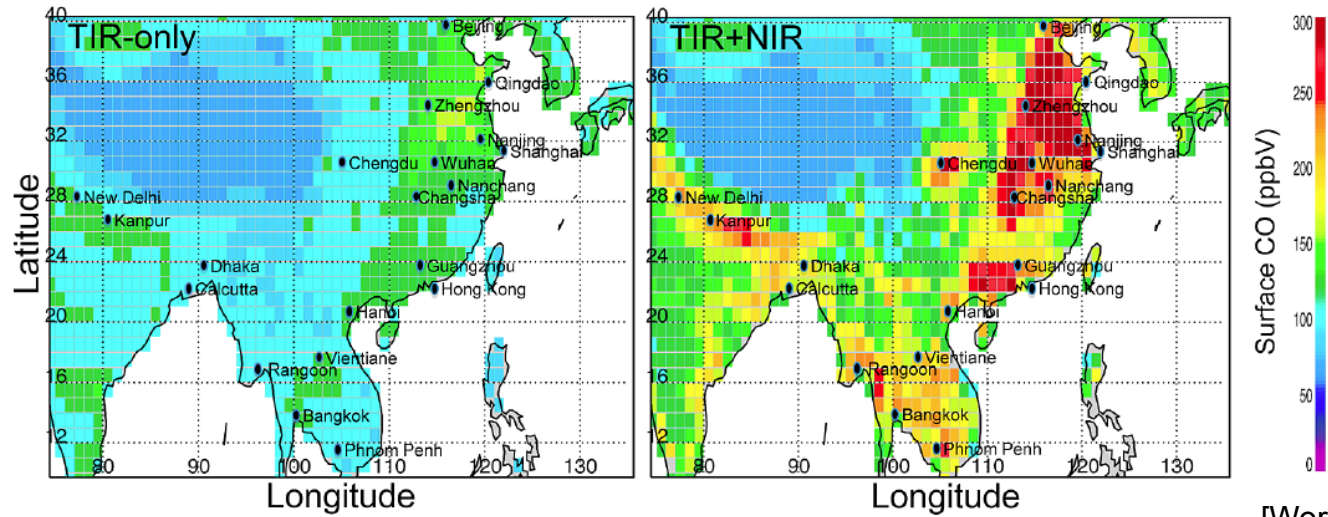
CRAWFORD ET AL.: MOPITT AND IN SITU CO DURING TRACE-P

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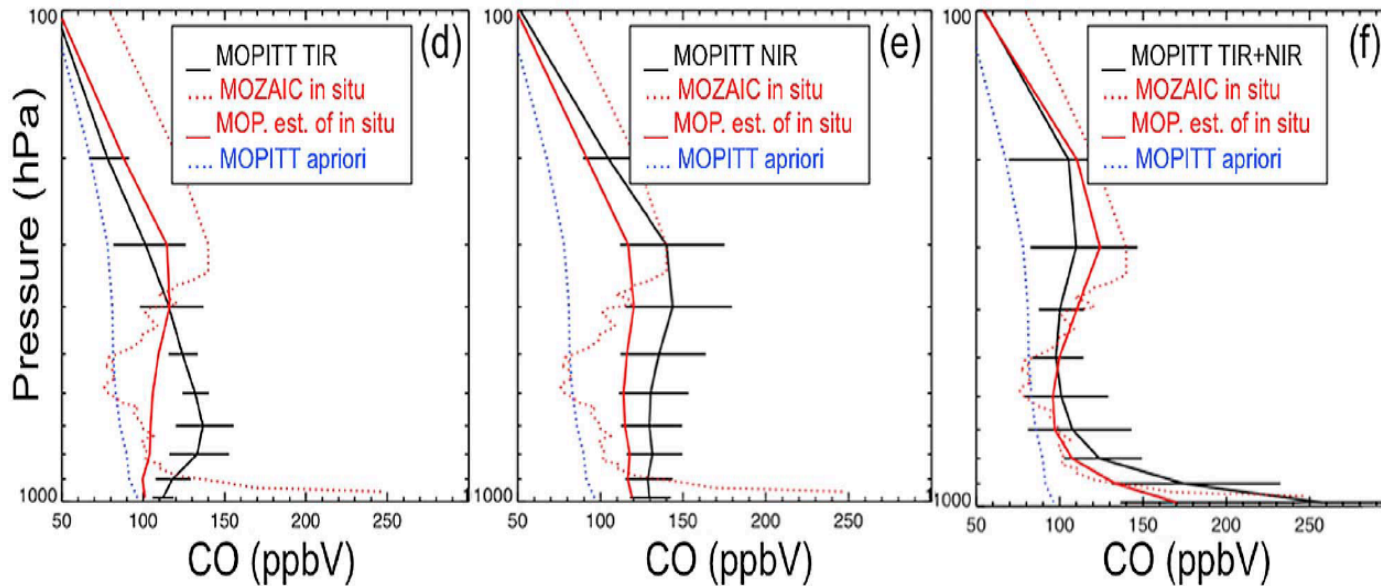
MOPITT Near infrared and thermal infrared retrievals

Mean surface level CO from MOPITT averaged for Sept – Nov, 2004 – 2008



[Worden et al., JGR, 2010]

Comparison of mean MOPITT and MOZAIC profile over New Delhi, India, on 3 Sept. 2004



Version 5 of the MOPITT retrievals provide a good estimate of the CO profile over land