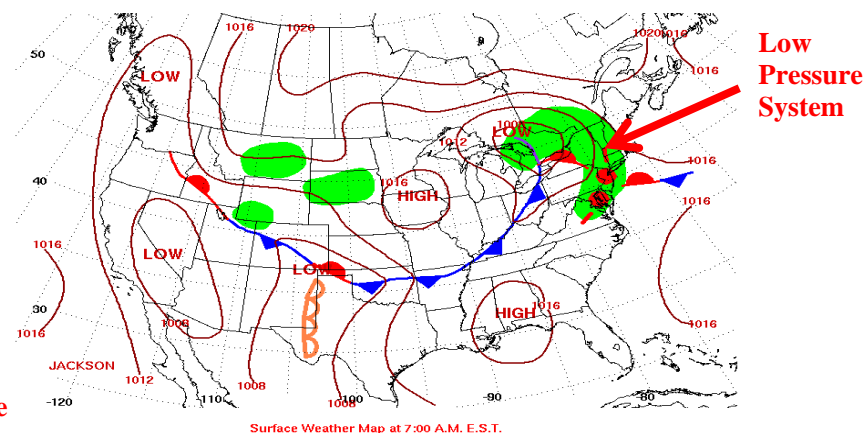
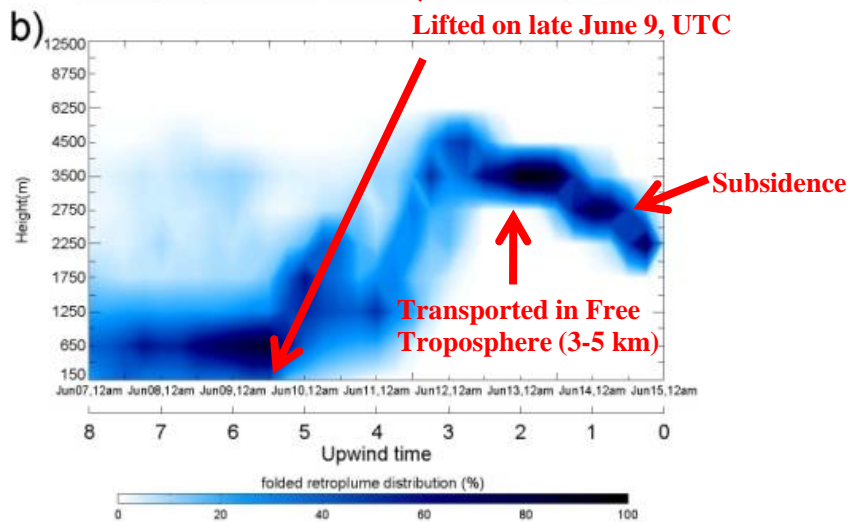
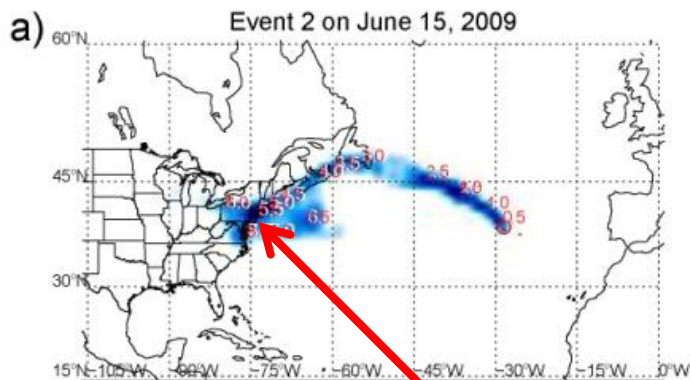


Interpretation of Plume Aging in a Transport Event in 2009

Application of folded GEOS-Chem and FLEXPART technique

**B. Zhang, R. C. Owen, J. A. Perlinger, A. Kumar, S. Wu,
M. Val Martin, L. Kramer, D. Helmig , R. E. Honrath.**

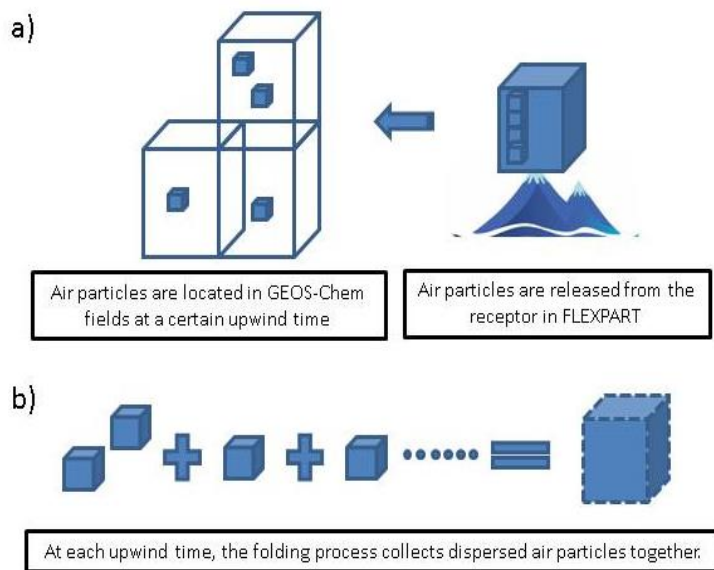
Transport Pathway and Export of Pollution Plume



NOAA weather map on June 9th, 2009

Transport pathway simulated by FLEXPART

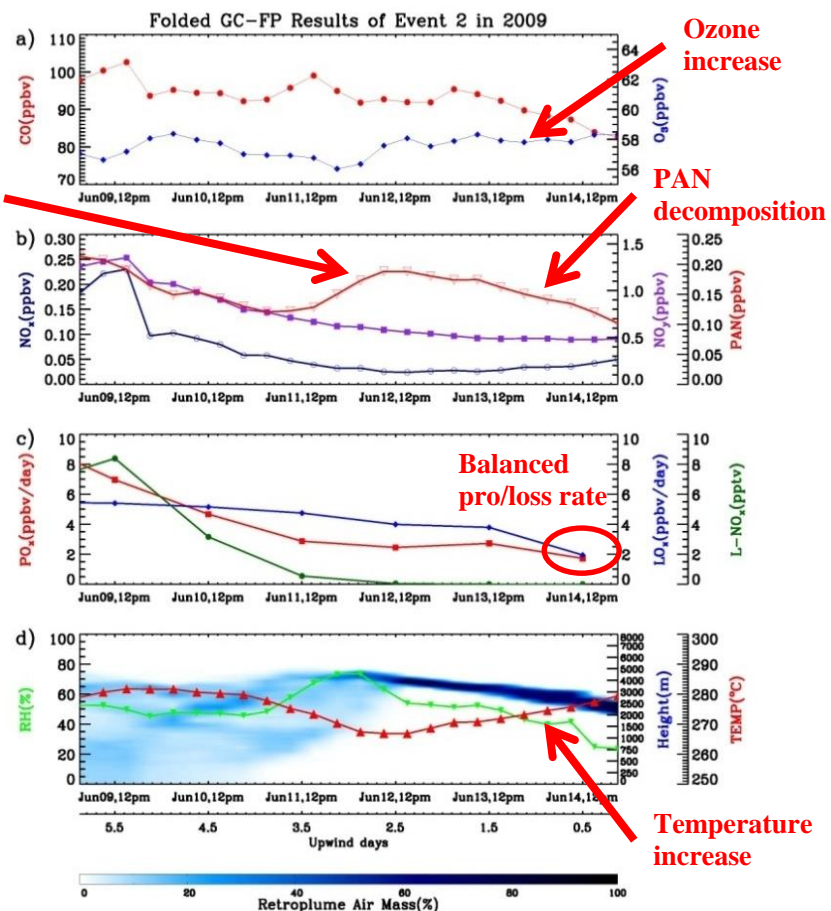
Folded Technique and Results



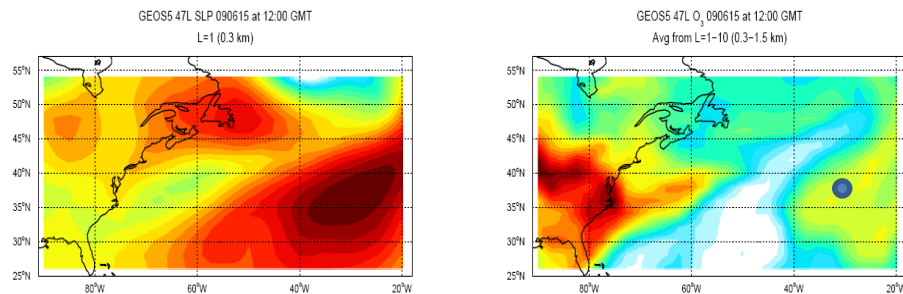
A Schematic of folded technique

Poster presentation: **EGU2013-2315, in Session AS4.11/BG2.19/NH7.3, on Wednesday, 10 Apr 2013, 08:00-19:30.**
 Please refer to our paper for more details : A Lagrangian View of Ozone Production Tendency in North American Outflow in Summers 2009 and 2010.
 B. Zhang, R. C. Owen, J. A. Perlinger, A. Kumar, S. Wu, M. Val Martin, L. Kramer, D. Helmig , R. E. Honrath. *Atmospheric Chemistry and Physics Discussion. In prep.*

**PAN
Accumulation**



Folded GEOS-Chem and FLEXPART results



Surface pressure and ozone in free troposphere when the plume arrived at Pico