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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Synoptic influences on springtime tropospheric O_3 and CO over the North American export region observed by TES" *by* J. Hegarty et al.

J. Hegarty et al.

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Anonymous Referee 1

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This is an interesting analysis of dynamical regimes and the relationship of weather patterns and chemical composition of the troposphere. This work build along a line of inquiry that has been developed from analysis of model calculations, aircraft and ground based measurements, and with this work, satellite data. Although this map classification requires human interpretation, it is a valuable technique for providing insight into the role of dynamics in pollution export. The paper provides a thorough analysis of the weather patterns in the region of focus, and clearly articulates their

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characteristics. Using satellite measurements requires a sophisticated understanding of the sensitivity, influence of apriori information, and error characteristics. The authors have demonstrated such an understanding in their utilization of TES data.

Thank you for acknowledging our efforts on this manuscript.

some small editorial comments:

page 19751 like 4 - missing a space after EDAS) before http

Corrected in manuscript.

same page, .line 16 - missing period after gif

Corrected in manuscript.

page 19756, line 17 - should have units on the slope of O3 to CO

Added units of mol mol^{-1} to slopes of O3 to CO in manuscript.

page 19766, line 26, missing period after US, before We

Corrected in manuscript.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 19743, 2008.