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***Interactive comment on “Tropospheric ozone sources and wave activity over Mexico City and Houston during MILAGRO/Intercontinental Transport Experiment (INTEX-B) Ozonesonde Network Study, 2006 (IONS-06)” by et al.***

**Anonymous Referee #3**

Received and published: 21 May 2008

General comments:

The paper addresses the budget and variability of tropospheric ozone over the MCB and Huston region based on ozonesondes launched during spring and summer 2006. An former established method (laminar identification) is used to determine tropospheric O<sub>3</sub> contributed from stratospheric injection, regional redistribution, local boundary layer, and advected O<sub>3</sub>. The subject is very relevant to the scope of ACP. The paper is well-written. Only a few suggestions are listed below.

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Specific comments:

P.5986, L.21: Double ozonopause is not defined or discussed in the text.

P.5989, L.15: In Fig. 5d, the Pre- and post-25 August mean ozone profiles have little overlap to within 1- $\sigma$ , but the mean RH profiles show very little difference above 8 km. The current statement seems to also suggest little overlap for the RH profiles.

P.6006, Fig. 6: In the panel (a), the stratospheric influence on 7 March is much more prominent than those from the other four days. Would the ST fractions as shown in Table 2 largely depend on the single day?

Technical corrections:

P. 5981, L. 6: 23, instead of 15 North American sites?

P.6004, Fig.4: add unit (km) in the y axis.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 5979, 2008.

ACPD

8, S2865–S2866, 2008

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