**Atmospheric
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Discussions**

Interactive comment on "Small-scale gravity waves in ER-2 MMS/MTP wind and temperature measurements during CRYSTAL-FACE" *by* L. Wang et al.

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- For the reply to minor comment # (b): The reason why we chose λ'_h no shorter than 5 km is because that very short GWs are more severely affected by processes such as dissipation, reflection, etc., than longer GWs (e.g., Marks and Eckermann, 1995), so they are more difficult to ray-trace. The number of MTP data points is not determined by λ'_h, as claimed in the original reply. It is determined by the horizontal span of the event instead.

- For the reply to minor comment # (d): The dispersion relation we used in the

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study is actually

$$\frac{1}{\lambda_z{}^2} = \frac{1}{\lambda_h{}^2} \frac{\left(N^2 - \hat{\omega}^2\right)}{\left(\hat{\omega}^2 - f^2\right)} - \frac{1}{4H_\rho{}^2} \qquad (1)$$

There was a typo in the formula in the original reply.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 11377, 2005.

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