The characteristics of the magnetopause reconnection X-line deduced from low-altitude satellite observations of cusp ions


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Correction to "The characteristics of the magnetopause reconnection X-line deduced from low-altitude satellite observations of cusp ions" by Lockwood et al.

The version of the above paper printed in Vol. 21, No. 24 [Geophys. Res. Lett. 21, 2757-2760, 1994] was not the final one and was printed in error. There are two corrections.

(1). The derivation of figure 1 was incorrectly described; however, the figure itself is correct. Equation (1) and the second sentence below it should read:

\[- \frac{\sqrt{m/2E}}{t_\phi} = t_\phi - (t_\phi + t_a) = -(t_\phi V_\phi/V_\|)t_a \quad (1)\]

A field line opened at a time \( t_\phi \) is observed at a time \( t_a \) (in fig. 1 defined as zero at the OCB where \( t_\phi = t_\phi \)) at a distance \( V_\phi \) poleward of the OCB.

(2). The correct version of figure 5 is given below and differs only in the labels for the axes. In the text, the average reconnection rate values quoted 5 lines from the bottom of column 1 on page 2760 should be 1.15, 0.85 and 0.67 mVm\(^{-1}\) (for \( d_i \) of 10, 14 and 18 \( R_E \), respectively). Note that the corresponding mean and peak ionospheric flow speeds quoted in the subsequent 4 lines are correct.

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