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:

\[ \frac{d}{2} \left( \frac{m}{2E} \right)^{1/2} = t_r - (t_o + t_n) = (t_o V_f V_c) - t_n \]  

(1)

A field line opened at a time \( t_o \) is observed at a time \( t_r \) (in fig. 1 defined as zero at the OCB where \( t_o = t_r \)) at a distance \( V_f t_r = V_c (t_r - t_o) \) 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 mV\( \text{m}^{-1} \) (for \( d_f \) 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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