

Erratum

Correction to “A statistical study of ion frictional heating observed by EISCAT” J. A. Davies¹, M. Lester¹, W. McCrea²

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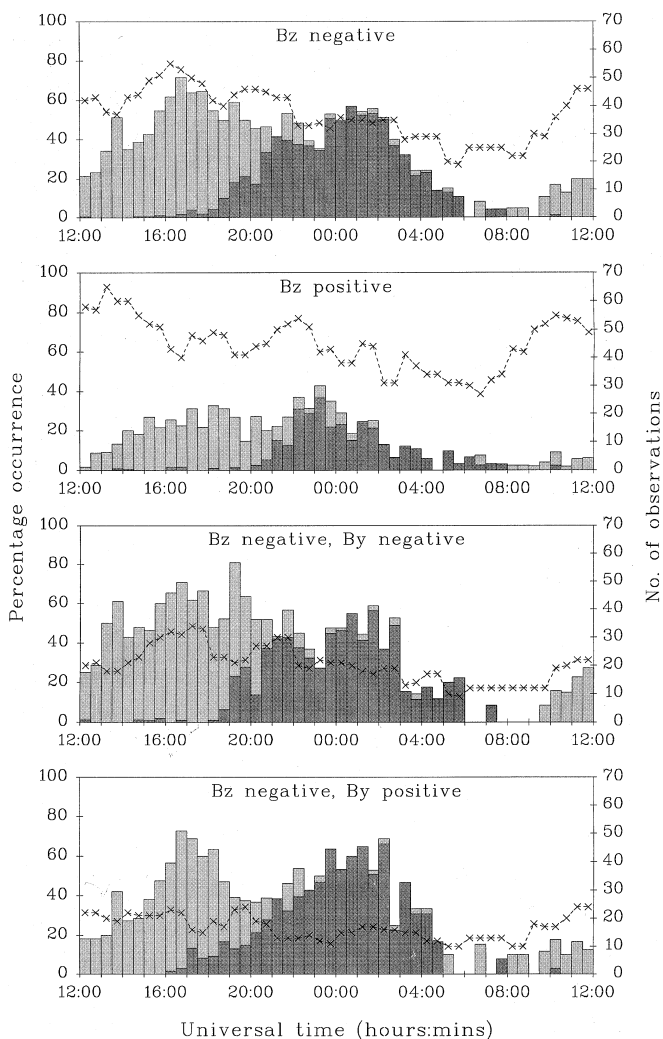


Fig. 1. Variation of the diurnal distribution of enhanced ion velocities with the orientation of the y and z components of the IMF. The histograms represent the percentage occurrence of ion velocities exceeding 500 m s^{-1} as a function of universal time; *light-grey shading* indicates enhanced ion velocities with a westward zonal component, *dark grey* indicates those with an eastward zonal component. The line plot shows the number of observations of each half-hour bin

Figure 7 of the paper of Davies *et al.* (1997) contains an error. The second panel from the top, which illustrates the diurnal distribution of enhanced ion velocities (those exceeding 500 m s^{-1}) under conditions of a positive (northward) z component of the interplanetary magnetic field (IMF), is incorrect with respect to the relative proportions of enhanced flows with associated eastward and westward components, especially in the pre-midnight sector; the total percentage occurrence of enhanced ion flows, however, remains unchanged. All other panels of this figure and all other figures in the paper are correct. Figure 1, below, illustrates the corrected version of Fig. 7 of Davies *et al.* (1997).

In consequence, a small part of the text relating to the discussion of this figure, contained in Sect. 4.2 of the original paper, is also in error, although the main conclusions of the paper are unaffected.

In the published paper (page 1406, column 2), the authors comment that under situations of a northward B_z the demarcation between eastward and westward flow is not clearly defined and that this could be related to the more complex convection pattern known to exist under conditions of a northward z component of the IMF. In fact, on examination of the corrected figure, the boundary between eastward and westward flows is as well defined as in the case of B_z negative (Fig. 1, top panel).

The authors regret any inconvenience that this mistake may have caused.

Reference

Davies, J. A., M. Lester, and I. W. McCrea, A statistical study of ion frictional heating observed by EISCAT, *Ann. Geophysicae*, **15**, 1399–1411, 1997.