

Correction to "Multistation observations of auroras: Polar cap substorms" by S. B. Mende, H. U. Frey, S. P. Geller, and J. H. Doolittle

In the paper "Multistation observations of auroras: Polar cap substorms" by S. B. Mende, H.U. Frey, S. P. Geller, and J. H. Doolittle (*Journal of Geophysical Research*, 104(A2), 2333-2342, 1999), we stated that in an example high-latitude substorm the poleward expansion reached higher latitudes in the Southern Hemisphere than in the Northern Hemisphere. This was in error.

The right-hand vertical scales of Figure 8, entitled "Data from the Greenland magnetometer chain," were annotated as INVL, but geographic latitude values were given. We have included Table 1 here in order to show the difference between geographic latitude and the corresponding corrected geomagnetic latitude for each station. Unfortunately, we assumed that the indicated latitudes were geomagnetic invariant and based some of our discussion on that assumption. Therefore two corrections should be made in the text. The last part of the sentence at the bottom of the left-hand column on page 2336 "...and that the substorm did not propagate to as high a latitude as in the Southern Hemisphere," should be modified to read "...and that the substorm propagated to similar magnetic latitudes in the Northern Hemisphere as in the Southern Hemisphere." In section 5, point 4 should also be modified by deleting the part of the sentence "but the expansion did not penetrate into the polar cap as deeply as in the Southern Hemisphere."

In summary, there is no evidence in the data that the poleward expansion of the high-latitude substorm is not symmetrical on conjugate hemispheres.

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Table 1. Greenland Magnetometers

IAGA Code	Geographic Latitude	Corrected Geomagnetic Latitude
THL	77.47	85.39
KUV	74.57	81.22
UPN	72.78	79.49
UMQ	70.68	76.90
GDH	69.25	75.80
ATU	67.93	74.56
STF	67.02	73.16
SKT	65.42	71.99
GHB	64.17	70.56
FHB	62.00	68.01
NAQ	61.16	66.29
NRD	81.60	80.93
DMH	76.77	77.24
MCE	72.57	75.63
DNB	74.30	75.16
SCO	70.48	71.60
AMK	65.60	69.29

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