

## Fast westward flow in the dusk to midnight region under a very tenuous solar wind (2)

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We report the intense westward flow extending from the evening to midnight local time area observed during May 11-12, 1999, when the solar wind density was very low ( $< 0.7$  /cc) and the IMF was northward. The intense ( $> 1500$  m/s) flow existed from 16 UT on May 11 to 02 UT on May 12, localized to 1 or 2 degrees of width in latitude. Detailed discussion of the comparison with other observations (ground magnetic field, field-aligned currents, etc.) will be presented.