

Comparison of double-probe electric field measurements with plasma bulk flows observed by GEOTAIL

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It is important to gain more correct values of the electric field in order to apply generalized Ohm's law in the magnetosphere. By comparison of double-probe electric field measurements with plasma bulk flows observed by GEOTAIL, we have estimated the effective length of the double probe and the offset of observed electric field. As the result, we have confirmed that there is good correlation between the effective length of the double probe and the spacecraft potential.