

# **THEMIS BURST-MODE OBSERVATIONS OF RECONNECTION AT THE DAYSIDE MAGNETOPAUSE**

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We present the results of a comprehensive survey of the occurrence of reconnection at the dayside magnetopause by the THEMIS spacecraft. We study in detail more than 100 magnetopause crossings during which high-resolution particle distributions and fields were available. The occurrence of reconnection was deduced not only from the plasma moments, but also from 3-s full 3D ion and electron distributions. Our findings on the occurrence frequency of reconnection as well as its dependence on the magnetic shear and plasma beta will be compared with findings from previous missions.

Magnetic Reconnection

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